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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : NAVFAC NWIRP BETHPAGE, NY SITE 1 OU-2 - 32258

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : Q2329

ATTENTION : Eleanor Vivadou

Laboratory Certification ID # 20012

Table Of Contents for Q2329

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 13

9) QC Data Summary For VOCMS Group1 15

- 9.1) Deuterated Monitoring Compound Summary 16
- 9.2) MS/MSD Summary 18
- 9.3) LCS/LCSD Summary 22
- 9.4) Method Blank Summary 28
- 9.5) GS/MS Tune Summary 31
- 9.6) Internal Standard Area and RT Summary 35

10) Sample Data 41

- 10.1) TT192D1-20250611 42
- 10.2) TT188S1-20250612 52
- 10.3) TT119S1-20250612 62
- 10.4) FB01-20250613 72
- 10.5) TT162S1-20250613 82
- 10.6) BPOW6-7-20250613 92
- 10.7) BPOW6-8-20250613 102
- 10.8) BPOW6-11-20250613 111
- 10.9) TT149S1-20250613 120
- 10.10) TT172S1-20250613 131
- 10.11) DUP03-20250613 143
- 10.12) DUP04-20250613 152
- 10.13) EB01-20250613 163
- 10.14) TB01-20250612 173
- 10.15) TB02-20250612 182
- 10.16) TT163S1-20250613 191

11) Calibration Data Summary 200

- 11.1) Initial Calibration Data 201
  - 11.1.1) VN060625 201

11.2) Continued Calibration Data 571

11.2.1) VN087045.D 571

11.2.2) VN087072.D 631

11.2.3) VN087074.D 691

11.2.4) VN087098.D 751

11.2.5) VN087100.D 811

11.2.6) VN087120.D 871

12) QC Sample Data 931

12.1) Tune Raw Data 932

12.2) Method Blank Data 936

12.3) LCS Data 963

12.4) MS Data 1128

12.5) MSD Data 1183

13) Manual Integration 1238

14) Analytical Runlogs 1243

15) Standard Prep Logs 1259

16) Shipping Document 1357

16.1) Chain Of Custody 1358

16.2) Lab Certificate 1360

16.3) Internal COC 1361

17) Not Reviewed Data 1364

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

Cover Page

Order ID : Q2329

Project ID : NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Client : AECOM Technical Services, Inc.

Lab Sample Number	Client Sample Number
Q2329-01	TT192D1-20250611
Q2329-02	TT188S1-20250612
Q2329-03	TT119S1-20250612
Q2329-04	FB01-20250613
Q2329-05	TT162S1-20250613
Q2329-06	BPOW6-7-20250613
Q2329-07	BPOW6-8-20250613
Q2329-08	BPOW6-11-20250613
Q2329-09	TT149S1-20250613
Q2329-10	TT172S1-20250613
Q2329-11	TT172S1-20250613MS
Q2329-12	TT172S1-20250613MSD
Q2329-13	DUP03-20250613
Q2329-14	DUP04-20250613
Q2329-15	EB01-20250613
Q2329-16	TB01-20250612
Q2329-17	TB02-20250612
Q2329-18	TT163S1-20250613

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 8:47 am, Jun 27, 2025

Date: 6/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

AECOM Technical Services, Inc.
Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Project # N/A
Order ID # Q2329
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
18 Water samples were received on 06/13/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

The Continuous Calibration File ID VN087045.D met the requirements except for Carbon Disulfide is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VN087074.D met the requirements except for Methyl Acetate is failing marginally low and meets QC limits for BS BSD standard and no positive hit observed in the samples, therefore no corrective action taken.

The Continuous Calibration File ID VN087100.D met the requirements except for Bromoform,Carbon Disulfide and Vinyl Chloride is failing high but no positive hit in associate sample therefore no corrective action taken.

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

The Tuning criteria met requirements.

E. Additional Comments:
The Sample #TT188S1-20250612 and BPOW6-7-20250613 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The not QT review data is reported in the Miscellaneous.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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: Q2329 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 Initial Calibration met the requirements. The Continuous Calibration File ID VN087045.D met the requirements except for Carbon Disulfide is failing high but no positive hit in associate sample therefore no corrective action taken. The Continuous Calibration File ID VN087074.D met the requirements except for Methyl Acetate is failing marginally low and meets QC limits for BS BSD standard and no positive hit observed in the samples, therefore no corrective action taken. The Continuous Calibration File ID VN087100.D met the requirements except for Bromoform,Carbon Disulfide and Vinyl Chloride is failing high but no positive hit in associate sample 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. The Surrogate recoveries met the acceptable criteria.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓

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

		NA	NO	YES
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:

The Sample #TT188S1-20250612 and BPOW6-7-20250613 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is >20% for the Initial Calibration curve for SW-846 analysis.

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 8:50 am, Jun 27, 2025

QA REVIEW Date

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2329

	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:** 06/24/2025

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

LAB CHRONICLE

OrderID:	Q2329	**OrderDate:**	6/13/2025 2:09:00 PM
Client:	AECOM Technical Services, Inc.	**Project:**	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	**Location:**	D51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2329-01	**TT192D1-20250611**	**Water**			**06/11/25**			**06/13/25**
			VOCMS Group1	8260-Low			06/17/25	
Q2329-02	**TT188S1-20250612**	**Water**			**06/12/25**			**06/13/25**
			VOCMS Group1	8260-Low			06/17/25	
Q2329-03	**TT119S1-20250612**	**Water**			**06/12/25**			**06/13/25**
			VOCMS Group1	8260-Low			06/17/25	
Q2329-04	**FB01-20250613**	**Water**			**06/13/25**			**06/13/25**
			VOCMS Group1	8260-Low			06/18/25	
Q2329-05	**TT162S1-20250613**	**Water**			**06/13/25**			**06/13/25**
			VOCMS Group1	8260-Low			06/17/25	
Q2329-06	**BPOW6-7-20250613**	**Water**			**06/13/25**			**06/13/25**
			VOCMS Group1	8260-Low			06/17/25	
Q2329-07	**BPOW6-8-20250613**	**Water**			**06/13/25**			**06/13/25**
			VOCMS Group1	8260-Low			06/18/25	
Q2329-08	**BPOW6-11-20250613**	**Water**			**06/13/25**			**06/13/25**
			VOCMS Group1	8260-Low			06/18/25	
Q2329-09	**TT149S1-20250613**	**Water**			**06/13/25**			**06/13/25**
			VOCMS Group1	8260-Low			06/18/25	
Q2329-10	**TT172S1-20250613**	**Water**			**06/13/25**			**06/13/25**
			VOCMS Group1	8260-Low			06/19/25	
Q2329-13	**DUP03-20250613**	**Water**			**06/13/25**			**06/13/25**
			VOCMS Group1	8260-Low			06/18/25	
Q2329-14	**DUP04-20250613**	**Water**			**06/13/25**			**06/13/25**

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

LAB CHRONICLE

			VOCMS Group1	8260-Low		06/18/25	
Q2329-15	**EB01-20250613**	**Water**			**06/13/25**		**06/13/25**
			VOCMS Group1	8260-Low		06/19/25	
Q2329-16	**TB01-20250612**	**Water**			**06/12/25**		**06/13/25**
			VOCMS Group1	8260-Low		06/18/25	
Q2329-17	**TB02-20250612**	**Water**			**06/12/25**		**06/13/25**
			VOCMS Group1	8260-Low		06/18/25	
Q2329-18	**TT163S1-20250613**	**Water**			**06/13/25**		**06/13/25**
			VOCMS Group1	8260-Low		06/18/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	**TT192D1-20250611**								
Q2329-01	TT192D1-20250611	Water	Acetone	2.50	J	1.50	3.80	5.00	ug/L
			Total Voc :	2.50					
			Total Concentration:	2.50					
Client ID:	**TT188S1-20250612**								
Q2329-02	TT188S1-20250612	Water	Trichloroethene	4.30		0.090	0.75	1.00	ug/L
			Total Voc :	4.30					
			Total Concentration:	4.30					
Client ID:	**TT119S1-20250612**								
Q2329-03	TT119S1-20250612	Water	Trichloroethene	1.20		0.090	0.75	1.00	ug/L
			Total Voc :	1.20					
			Total Concentration:	1.20					
Client ID:	**FB01-20250613**								
Q2329-04	FB01-20250613	Water	Acetone	11.1		1.50	3.80	5.00	ug/L
Q2329-04	FB01-20250613	Water	Methylene Chloride	2.00		0.28	0.50	1.00	ug/L
			Total Voc :	13.1					
			Total Concentration:	13.1					
Client ID:	**TT162S1-20250613**								
Q2329-05	TT162S1-20250613	Water	Trichloroethene	6.30		0.090	0.75	1.00	ug/L
Q2329-05	TT162S1-20250613	Water	Tetrachloroethene	0.66	J	0.23	0.50	1.00	ug/L
			Total Voc :	6.96					
			Total Concentration:	6.96					
Client ID:	**TT149S1-20250613**								
Q2329-09	TT149S1-20250613	Water	Methyl tert-butyl Ether	5.70		0.16	0.50	1.00	ug/L
Q2329-09	TT149S1-20250613	Water	Trichloroethene	2.80		0.090	0.75	1.00	ug/L
Q2329-09	TT149S1-20250613	Water	Tetrachloroethene	0.71	J	0.23	0.50	1.00	ug/L
			Total Voc :	9.21					
			Total Concentration:	9.21					
Client ID:	**TT172S1-20250613**								
Q2329-10	TT172S1-20250613	Water	1,1,2-Trichlorotrifluoroethane	1.10		0.25	0.50	1.00	ug/L
Q2329-10	TT172S1-20250613	Water	Chloroform	0.44	J	0.25	0.50	1.00	ug/L
Q2329-10	TT172S1-20250613	Water	Trichloroethene	36.4		0.090	0.75	1.00	ug/L
Q2329-10	TT172S1-20250613	Water	Tetrachloroethene	1.60		0.23	0.50	1.00	ug/L
			Total Voc :	39.5					
			Total Concentration:	39.5					
Client ID:	**DUP04-20250613**								
Q2329-14	DUP04-20250613	Water	Methyl tert-butyl Ether	7.40		0.16	0.50	1.00	ug/L
Q2329-14	DUP04-20250613	Water	Trichloroethene	3.50		0.090	0.75	1.00	ug/L
Q2329-14	DUP04-20250613	Water	Tetrachloroethene	0.94	J	0.23	0.50	1.00	ug/L
			Total Voc :	11.8					

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

Hit Summary Sheet
SW-846

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
			Total Concentration:	11.8					
Client ID:	**EB01-20250613**								
Q2329-15	EB01-20250613	Water	Acetone	11.6		1.50	3.80	5.00	ug/L
Q2329-15	EB01-20250613	Water	Methylene Chloride	1.50		0.28	0.50	1.00	ug/L
			Total Voc :	13.1					
			Total Concentration:	13.1					

QC SUMMARY

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

Surrogate Summary

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2329-01	TT192D1-20250611	1,2-Dichloroethane-d4	50	52.5	105	81	118
		Dibromofluoromethane	50	50.8	102	80	119
		Toluene-d8	50	52.0	104	89	112
		4-Bromofluorobenzene	50	49.7	99	85	114
Q2329-02	TT188S1-20250612	1,2-Dichloroethane-d4	50	52.0	104	81	118
		Dibromofluoromethane	50	50.5	101	80	119
		Toluene-d8	50	52.2	104	89	112
		4-Bromofluorobenzene	50	49.7	99	85	114
Q2329-03	TT119S1-20250612	1,2-Dichloroethane-d4	50	51.4	103	81	118
		Dibromofluoromethane	50	51.3	103	80	119
		Toluene-d8	50	52.4	105	89	112
		4-Bromofluorobenzene	50	49.8	100	85	114
Q2329-04	FB01-20250613	1,2-Dichloroethane-d4	50	56.3	113	81	118
		Dibromofluoromethane	50	52.8	106	80	119
		Toluene-d8	50	52.7	105	89	112
		4-Bromofluorobenzene	50	48.0	96	85	114
Q2329-05	TT162S1-20250613	1,2-Dichloroethane-d4	50	53.2	106	81	118
		Dibromofluoromethane	50	50.9	102	80	119
		Toluene-d8	50	52.5	105	89	112
		4-Bromofluorobenzene	50	50.2	100	85	114
Q2329-06	BPOW6-7-20250613	1,2-Dichloroethane-d4	50	53.1	106	81	118
		Dibromofluoromethane	50	50.8	102	80	119
		Toluene-d8	50	51.8	104	89	112
		4-Bromofluorobenzene	50	49.0	98	85	114
Q2329-07	BPOW6-8-20250613	1,2-Dichloroethane-d4	50	55.0	110	81	118
		Dibromofluoromethane	50	52.8	106	80	119
		Toluene-d8	50	52.4	105	89	112
		4-Bromofluorobenzene	50	50.4	101	85	114
Q2329-08	BPOW6-11-20250613	1,2-Dichloroethane-d4	50	55.3	111	81	118
		Dibromofluoromethane	50	51.9	104	80	119
		Toluene-d8	50	52.6	105	89	112
		4-Bromofluorobenzene	50	49.0	98	85	114
Q2329-09	TT149S1-20250613	1,2-Dichloroethane-d4	50	53.2	106	81	118
		Dibromofluoromethane	50	52.8	106	80	119
		Toluene-d8	50	52.6	105	89	112
		4-Bromofluorobenzene	50	50.5	101	85	114
Q2329-10	TT172S1-20250613	1,2-Dichloroethane-d4	50	53.1	106	81	118
		Dibromofluoromethane	50	51.1	102	80	119
		Toluene-d8	50	53.1	106	89	112
		4-Bromofluorobenzene	50	49.4	99	85	114
Q2329-11MS	TT172S1-20250613MS	1,2-Dichloroethane-d4	50	50.0	100	81	118
		Dibromofluoromethane	50	55.6	111	80	119
		Toluene-d8	50	51.3	103	89	112
		4-Bromofluorobenzene	50	52.6	105	85	114
Q2329-12MSD	TT172S1-20250613MSD	1,2-Dichloroethane-d4	50	44.7	89	81	118
		Dibromofluoromethane	50	49.1	98	80	119
		Toluene-d8	50	45.9	92	89	112
		4-Bromofluorobenzene	50	46.6	93	85	114
Q2329-13	DUP03-20250613	1,2-Dichloroethane-d4	50	54.8	110	81	118
		Dibromofluoromethane	50	51.8	104	80	119

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

Surrogate Summary

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q2329-13	DUP03-20250613	Toluene-d8	50	52.2	104	89	112
		4-Bromofluorobenzene	50	49.6	99	85	114
Q2329-14	DUP04-20250613	1,2-Dichloroethane-d4	50	54.9	110	81	118
		Dibromofluoromethane	50	52.6	105	80	119
		Toluene-d8	50	52.5	105	89	112
		4-Bromofluorobenzene	50	49.2	98	85	114
Q2329-15	EB01-20250613	1,2-Dichloroethane-d4	50	56.9	114	81	118
		Dibromofluoromethane	50	53.3	107	80	119
		Toluene-d8	50	53.1	106	89	112
		4-Bromofluorobenzene	50	48.9	98	85	114
Q2329-16	TB01-20250612	1,2-Dichloroethane-d4	50	55.5	111	81	118
		Dibromofluoromethane	50	52.9	106	80	119
		Toluene-d8	50	52.4	105	89	112
		4-Bromofluorobenzene	50	49.3	99	85	114
Q2329-17	TB02-20250612	1,2-Dichloroethane-d4	50	56.5	113	81	118
		Dibromofluoromethane	50	51.9	104	80	119
		Toluene-d8	50	52.2	104	89	112
		4-Bromofluorobenzene	50	49.0	98	85	114
Q2329-18	TT163S1-20250613	1,2-Dichloroethane-d4	50	57.1	114	81	118
		Dibromofluoromethane	50	52.8	106	80	119
		Toluene-d8	50	52.5	105	89	112
		4-Bromofluorobenzene	50	49.3	98	85	114
VN0617WBL01	VN0617WBL01	1,2-Dichloroethane-d4	50	55.2	110	81	118
		Dibromofluoromethane	50	52.8	106	80	119
		Toluene-d8	50	53.3	107	89	112
		4-Bromofluorobenzene	50	50.1	100	85	114
VN0617WBS01	VN0617WBS01	1,2-Dichloroethane-d4	50	48.7	97	81	118
		Dibromofluoromethane	50	52.2	104	80	119
		Toluene-d8	50	50.0	100	89	112
		4-Bromofluorobenzene	50	51.8	104	85	114
VN0618WBL01	VN0618WBL01	1,2-Dichloroethane-d4	50	52.5	105	81	118
		Dibromofluoromethane	50	50.7	101	80	119
		Toluene-d8	50	52.4	105	89	112
		4-Bromofluorobenzene	50	49.2	98	85	114
VN0618WBS01	VN0618WBS01	1,2-Dichloroethane-d4	50	48.3	97	81	118
		Dibromofluoromethane	50	53.0	106	80	119
		Toluene-d8	50	49.8	100	89	112
		4-Bromofluorobenzene	50	50.4	101	85	114
VN0619WBL01	VN0619WBL01	1,2-Dichloroethane-d4	50	57.1	114	81	118
		Dibromofluoromethane	50	53.1	106	80	119
		Toluene-d8	50	53.8	108	89	112
		4-Bromofluorobenzene	50	48.9	98	85	114
VN0619WBS01	VN0619WBS01	1,2-Dichloroethane-d4	50	48.3	97	81	118
		Dibromofluoromethane	50	53.4	107	80	119
		Toluene-d8	50	49.9	100	89	112
		4-Bromofluorobenzene	50	50.3	101	85	114

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.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q2329-11MS		**Client Sample ID : TT172S1-20250613MS**						**Datafile :** VN087118.D			
Dichlorodifluoromethane	50	0	55.7	ug/L	111				32	152	
Chloromethane	50	0	48.6	ug/L	97				50	139	
Vinyl chloride	50	0	59.7	ug/L	119				58	137	
Bromomethane	50	0	51.1	ug/L	102				53	141	
Chloroethane	50	0	59.4	ug/L	119				60	138	
Trichlorofluoromethane	50	0	59.1	ug/L	118				65	141	
1,1,2-Trichlorotrifluoroethane	50	1.10	57.7	ug/L	113				70	136	
1,1-Dichloroethene	50	0	58.6	ug/L	117				71	131	
Acetone	250	0	250	ug/L	100				39	160	
Carbon disulfide	50	0	60.0	ug/L	120				64	133	
Methyl tert-butyl Ether	50	0	56.2	ug/L	112				71	124	
Methyl Acetate	50	0	44.3	ug/L	89				56	136	
Methylene Chloride	50	0	55.2	ug/L	110				74	124	
trans-1,2-Dichloroethene	50	0	56.9	ug/L	114				75	124	
1,1-Dichloroethane	50	0	57.1	ug/L	114				77	125	
Cyclohexane	50	0	51.1	ug/L	102				71	130	
2-Butanone	250	0	250	ug/L	100				56	143	
Carbon Tetrachloride	50	0	58.2	ug/L	116				72	136	
cis-1,2-Dichloroethene	50	0	57.5	ug/L	115				78	123	
Bromochloromethane	50	0	47.8	ug/L	96				78	123	
Chloroform	50	0.44	56.5	ug/L	112				79	124	
1,1,1-Trichloroethane	50	0	56.4	ug/L	113				74	131	
Methylcyclohexane	50	0	48.7	ug/L	97				72	132	
Benzene	50	0	57.4	ug/L	115				79	120	
1,2-Dichloroethane	50	0	56.0	ug/L	112				73	128	
Trichloroethene	50	36.4	97.3	ug/L	122				79	123	
1,2-Dichloropropane	50	0	56.6	ug/L	113				78	122	
Bromodichloromethane	50	0	57.4	ug/L	115				79	125	
4-Methyl-2-Pentanone	250	0	270	ug/L	108				67	130	
Toluene	50	0	58.6	ug/L	117				80	121	
t-1,3-Dichloropropene	50	0	57.1	ug/L	114				73	127	
cis-1,3-Dichloropropene	50	0	56.3	ug/L	113				75	124	
1,1,2-Trichloroethane	50	0	57.7	ug/L	115				80	119	
2-Hexanone	250	0	280	ug/L	112				57	139	
Dibromochloromethane	50	0	60.3	ug/L	121				74	126	
1,2-Dibromoethane	50	0	58.9	ug/L	118				77	121	
Tetrachloroethene	50	1.60	57.3	ug/L	111				74	129	
Chlorobenzene	50	0	57.1	ug/L	114				82	118	
Ethyl Benzene	50	0	55.6	ug/L	111				79	121	
m/p-Xylenes	100	0	120	ug/L	120				80	121	
o-Xylene	50	0	58.7	ug/L	117				78	122	
Styrene	50	0	58.2	ug/L	116				78	123	
Bromoform	50	0	60.7	ug/L	121				66	130	
Isopropylbenzene	50	0	54.2	ug/L	108				72	131	
1,1,2,2-Tetrachloroethane	50	0	55.5	ug/L	111				71	121	

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.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	56.2	ug/L	112				80	119	
1,4-Dichlorobenzene	50	0	55.6	ug/L	111				79	118	
1,2-Dichlorobenzene	50	0	56.2	ug/L	112				80	119	
1,2-Dibromo-3-Chloropropane	50	0	52.0	ug/L	104				62	128	
1,2,4-Trichlorobenzene	50	0	48.3	ug/L	97				69	130	
1,2,3-Trichlorobenzene	50	0	47.1	ug/L	94				69	129	

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.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID : Q2329-12MSD	**Client Sample ID : TT172S1-20250613MSD**							**Datafile :** VN087119.D			
Dichlorodifluoromethane	50	0	51.5	ug/L	103		8		32	152	20
Chloromethane	50	0	45.1	ug/L	90		7		50	139	20
Vinyl chloride	50	0	56.1	ug/L	112		6		58	137	20
Bromomethane	50	0	54.1	ug/L	108		6		53	141	20
Chloroethane	50	0	55.5	ug/L	111		7		60	138	20
Trichlorofluoromethane	50	0	54.7	ug/L	109		8		65	141	20
1,1,2-Trichlorotrifluoroethane	50	1.10	53.5	ug/L	105		7		70	136	20
1,1-Dichloroethene	50	0	55.3	ug/L	111		6		71	131	20
Acetone	250	0	230	ug/L	92		8		39	160	20
Carbon disulfide	50	0	56.6	ug/L	113		6		64	133	20
Methyl tert-butyl Ether	50	0	52.3	ug/L	105		7		71	124	20
Methyl Acetate	50	0	41.3	ug/L	83		7		56	136	20
Methylene Chloride	50	0	53.0	ug/L	106		4		74	124	20
trans-1,2-Dichloroethene	50	0	53.3	ug/L	107		7		75	124	20
1,1-Dichloroethane	50	0	53.8	ug/L	108		6		77	125	20
Cyclohexane	50	0	47.3	ug/L	95		8		71	130	20
2-Butanone	250	0	230	ug/L	92		8		56	143	20
Carbon Tetrachloride	50	0	53.5	ug/L	107		8		72	136	20
cis-1,2-Dichloroethene	50	0	53.9	ug/L	108		6		78	123	20
Bromochloromethane	50	0	44.5	ug/L	89		7		78	123	20
Chloroform	50	0.44	52.7	ug/L	105		6		79	124	20
1,1,1-Trichloroethane	50	0	53.0	ug/L	106		6		74	131	20
Methylcyclohexane	50	0	44.6	ug/L	89		9		72	132	20
Benzene	50	0	53.1	ug/L	106		8		79	120	20
1,2-Dichloroethane	50	0	51.7	ug/L	103		8		73	128	20
Trichloroethene	50	36.4	93.2	ug/L	114		7		79	123	20
1,2-Dichloropropane	50	0	52.5	ug/L	105		8		78	122	20
Bromodichloromethane	50	0	53.0	ug/L	106		8		79	125	20
4-Methyl-2-Pentanone	250	0	250	ug/L	100		8		67	130	20
Toluene	50	0	53.7	ug/L	107		9		80	121	20
t-1,3-Dichloropropene	50	0	52.6	ug/L	105		8		73	127	20
cis-1,3-Dichloropropene	50	0	52.4	ug/L	105		7		75	124	20
1,1,2-Trichloroethane	50	0	52.7	ug/L	105		9		80	119	20
2-Hexanone	250	0	250	ug/L	100		11		57	139	20
Dibromochloromethane	50	0	56.0	ug/L	112		7		74	126	20
1,2-Dibromoethane	50	0	53.8	ug/L	108		9		77	121	20
Tetrachloroethene	50	1.60	54.1	ug/L	105		6		74	129	20
Chlorobenzene	50	0	54.1	ug/L	108		5		82	118	20
Ethyl Benzene	50	0	52.9	ug/L	106		5		79	121	20
m/p-Xylenes	100	0	110	ug/L	110		9		80	121	20
o-Xylene	50	0	55.9	ug/L	112		5		78	122	20
Styrene	50	0	55.5	ug/L	111		5		78	123	20
Bromoform	50	0	57.8	ug/L	116		5		66	130	20
Isopropylbenzene	50	0	51.7	ug/L	103		5		72	131	20
1,1,2,2-Tetrachloroethane	50	0	52.5	ug/L	105		6		71	121	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.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
1,3-Dichlorobenzene	50	0	52.9	ug/L	106		6		80	119	20
1,4-Dichlorobenzene	50	0	53.2	ug/L	106		4		79	118	20
1,2-Dichlorobenzene	50	0	52.7	ug/L	105		6		80	119	20
1,2-Dibromo-3-Chloropropane	50	0	49.0	ug/L	98		6		62	128	20
1,2,4-Trichlorobenzene	50	0	47.0	ug/L	94		3		69	130	20
1,2,3-Trichlorobenzene	50	0	45.6	ug/L	91		3		69	129	20

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.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VN087051.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0617WBS01	Dichlorodifluoromethane	20	20.3	ug/L	102			32	152	
	Chloromethane	20	17.7	ug/L	89			50	139	
	Vinyl chloride	20	21.5	ug/L	108			58	137	
	Bromomethane	20	20.1	ug/L	101			53	141	
	Chloroethane	20	21.6	ug/L	108			60	138	
	Trichlorofluoromethane	20	21.1	ug/L	106			65	141	
	1,1,2-Trichlorotrifluoroethane	20	20.8	ug/L	104			70	136	
	1,1-Dichloroethene	20	21.7	ug/L	109			71	131	
	Acetone	100	88.8	ug/L	89			39	160	
	Carbon disulfide	20	22.1	ug/L	111			64	133	
	Methyl tert-butyl Ether	20	19.8	ug/L	99			71	124	
	Methyl Acetate	20	16.2	ug/L	81			56	136	
	Methylene Chloride	20	20.0	ug/L	100			74	124	
	trans-1,2-Dichloroethene	20	21.0	ug/L	105			75	124	
	1,1-Dichloroethane	20	20.5	ug/L	103			77	125	
	Cyclohexane	20	18.7	ug/L	94			71	130	
	2-Butanone	100	88.2	ug/L	88			56	143	
	Carbon Tetrachloride	20	20.9	ug/L	104			72	136	
	cis-1,2-Dichloroethene	20	20.7	ug/L	104			78	123	
	Bromochloromethane	20	17.7	ug/L	89			78	123	
	Chloroform	20	20.1	ug/L	101			79	124	
	1,1,1-Trichloroethane	20	20.3	ug/L	102			74	131	
	Methylcyclohexane	20	17.2	ug/L	86			72	132	
	Benzene	20	20.9	ug/L	104			79	120	
	1,2-Dichloroethane	20	21.0	ug/L	105			73	128	
	Trichloroethene	20	21.4	ug/L	107			79	123	
	1,2-Dichloropropane	20	20.7	ug/L	104			78	122	
	Bromodichloromethane	20	21.0	ug/L	105			79	125	
	4-Methyl-2-Pentanone	100	93.1	ug/L	93			67	130	
	Toluene	20	21.4	ug/L	107			80	121	
	t-1,3-Dichloropropene	20	21.2	ug/L	106			73	127	
	cis-1,3-Dichloropropene	20	21.0	ug/L	105			75	124	
	1,1,2-Trichloroethane	20	21.4	ug/L	107			80	119	
	2-Hexanone	100	85.4	ug/L	85			57	139	
	Dibromochloromethane	20	21.1	ug/L	106			74	126	
	1,2-Dibromoethane	20	21.1	ug/L	106			77	121	
	Tetrachloroethene	20	20.5	ug/L	103			74	129	
	Chlorobenzene	20	21.3	ug/L	106			82	118	
	Ethyl Benzene	20	20.2	ug/L	101			79	121	
	m/p-Xylenes	40	42.4	ug/L	106			80	121	
	o-Xylene	20	21.6	ug/L	108			78	122	
	Styrene	20	21.9	ug/L	110			78	123	
	Bromoform	20	21.6	ug/L	108			66	130	
	Isopropylbenzene	20	20.5	ug/L	103			72	131	
	1,1,2,2-Tetrachloroethane	20	21.5	ug/L	108			71	121	
	1,3-Dichlorobenzene	20	21.2	ug/L	106			80	119	
	1,4-Dichlorobenzene	20	20.9	ug/L	104			79	118	
	1,2-Dichlorobenzene	20	21.5	ug/L	108			80	119	

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.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VN087051.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0617WBS01	1,2-Dibromo-3-Chloropropane	20	19.5	ug/L	98			62	128	
	1,2,4-Trichlorobenzene	20	18.0	ug/L	90			69	130	
	1,2,3-Trichlorobenzene	20	17.2	ug/L	86			69	129	

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.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VN087077.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0618WBS01	Dichlorodifluoromethane	20	19.6	ug/L	98			32	152	
	Chloromethane	20	16.9	ug/L	85			50	139	
	Vinyl chloride	20	20.3	ug/L	102			58	137	
	Bromomethane	20	18.6	ug/L	93			53	141	
	Chloroethane	20	20.4	ug/L	102			60	138	
	Trichlorofluoromethane	20	20.3	ug/L	102			65	141	
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98			70	136	
	1,1-Dichloroethene	20	20.1	ug/L	101			71	131	
	Acetone	100	82.9	ug/L	83			39	160	
	Carbon disulfide	20	20.6	ug/L	103			64	133	
	Methyl tert-butyl Ether	20	18.7	ug/L	94			71	124	
	Methyl Acetate	20	15.5	ug/L	78			56	136	
	Methylene Chloride	20	19.0	ug/L	95			74	124	
	trans-1,2-Dichloroethene	20	19.0	ug/L	95			75	124	
	1,1-Dichloroethane	20	19.1	ug/L	96			77	125	
	Cyclohexane	20	17.8	ug/L	89			71	130	
	2-Butanone	100	85.3	ug/L	85			56	143	
	Carbon Tetrachloride	20	20.0	ug/L	100			72	136	
	cis-1,2-Dichloroethene	20	19.3	ug/L	97			78	123	
	Bromochloromethane	20	17.1	ug/L	86			78	123	
	Chloroform	20	18.9	ug/L	95			79	124	
	1,1,1-Trichloroethane	20	19.0	ug/L	95			74	131	
	Methylcyclohexane	20	17.2	ug/L	86			72	132	
	Benzene	20	19.9	ug/L	100			79	120	
	1,2-Dichloroethane	20	19.2	ug/L	96			73	128	
	Trichloroethene	20	20.1	ug/L	101			79	123	
	1,2-Dichloropropane	20	19.6	ug/L	98			78	122	
	Bromodichloromethane	20	19.4	ug/L	97			79	125	
	4-Methyl-2-Pentanone	100	91.0	ug/L	91			67	130	
	Toluene	20	20.0	ug/L	100			80	121	
	t-1,3-Dichloropropene	20	19.2	ug/L	96			73	127	
	cis-1,3-Dichloropropene	20	19.7	ug/L	99			75	124	
	1,1,2-Trichloroethane	20	19.7	ug/L	99			80	119	
	2-Hexanone	100	83.9	ug/L	84			57	139	
	Dibromochloromethane	20	20.3	ug/L	102			74	126	
	1,2-Dibromoethane	20	20.2	ug/L	101			77	121	
	Tetrachloroethene	20	19.8	ug/L	99			74	129	
	Chlorobenzene	20	20.1	ug/L	101			82	118	
	Ethyl Benzene	20	19.2	ug/L	96			79	121	
	m/p-Xylenes	40	39.7	ug/L	99			80	121	
	o-Xylene	20	19.6	ug/L	98			78	122	
	Styrene	20	19.8	ug/L	99			78	123	
	Bromoform	20	21.0	ug/L	105			66	130	
	Isopropylbenzene	20	18.4	ug/L	92			72	131	
	1,1,2,2-Tetrachloroethane	20	19.6	ug/L	98			71	121	
	1,3-Dichlorobenzene	20	19.3	ug/L	97			80	119	
	1,4-Dichlorobenzene	20	19.8	ug/L	99			79	118	
	1,2-Dichlorobenzene	20	19.4	ug/L	97			80	119	

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.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VN087077.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0618WBS01	1,2-Dibromo-3-Chloropropane	20	17.8	ug/L	89			62	128	
	1,2,4-Trichlorobenzene	20	16.8	ug/L	84			69	130	
	1,2,3-Trichlorobenzene	20	16.3	ug/L	81			69	129	

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.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VN087104.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0619WBS01	Dichlorodifluoromethane	20	19.7	ug/L	99			32	152	
	Chloromethane	20	16.6	ug/L	83			50	139	
	Vinyl chloride	20	20.4	ug/L	102			58	137	
	Bromomethane	20	19.5	ug/L	98			53	141	
	Chloroethane	20	20.6	ug/L	103			60	138	
	Trichlorofluoromethane	20	19.9	ug/L	100			65	141	
	1,1,2-Trichlorotrifluoroethane	20	20.0	ug/L	100			70	136	
	1,1-Dichloroethene	20	19.5	ug/L	98			71	131	
	Acetone	100	89.0	ug/L	89			39	160	
	Carbon disulfide	20	20.5	ug/L	103			64	133	
	Methyl tert-butyl Ether	20	18.1	ug/L	91			71	124	
	Methyl Acetate	20	15.1	ug/L	76			56	136	
	Methylene Chloride	20	18.6	ug/L	93			74	124	
	trans-1,2-Dichloroethene	20	19.1	ug/L	96			75	124	
	1,1-Dichloroethane	20	19.1	ug/L	96			77	125	
	Cyclohexane	20	17.5	ug/L	88			71	130	
	2-Butanone	100	81.5	ug/L	82			56	143	
	Carbon Tetrachloride	20	19.6	ug/L	98			72	136	
	cis-1,2-Dichloroethene	20	18.9	ug/L	95			78	123	
	Bromochloromethane	20	16.7	ug/L	84			78	123	
	Chloroform	20	19.0	ug/L	95			79	124	
	1,1,1-Trichloroethane	20	19.0	ug/L	95			74	131	
	Methylcyclohexane	20	16.4	ug/L	82			72	132	
	Benzene	20	19.2	ug/L	96			79	120	
	1,2-Dichloroethane	20	18.9	ug/L	95			73	128	
	Trichloroethene	20	19.9	ug/L	100			79	123	
	1,2-Dichloropropane	20	19.5	ug/L	98			78	122	
	Bromodichloromethane	20	19.2	ug/L	96			79	125	
	4-Methyl-2-Pentanone	100	85.6	ug/L	86			67	130	
	Toluene	20	19.5	ug/L	98			80	121	
	t-1,3-Dichloropropene	20	19.0	ug/L	95			73	127	
	cis-1,3-Dichloropropene	20	19.7	ug/L	99			75	124	
	1,1,2-Trichloroethane	20	19.7	ug/L	99			80	119	
	2-Hexanone	100	75.6	ug/L	76			57	139	
	Dibromochloromethane	20	19.9	ug/L	100			74	126	
	1,2-Dibromoethane	20	19.1	ug/L	96			77	121	
	Tetrachloroethene	20	18.7	ug/L	94			74	129	
	Chlorobenzene	20	19.6	ug/L	98			82	118	
	Ethyl Benzene	20	18.6	ug/L	93			79	121	
	m/p-Xylenes	40	38.5	ug/L	96			80	121	
	o-Xylene	20	18.7	ug/L	94			78	122	
	Styrene	20	19.2	ug/L	96			78	123	
	Bromoform	20	20.2	ug/L	101			66	130	
	Isopropylbenzene	20	18.1	ug/L	91			72	131	
	1,1,2,2-Tetrachloroethane	20	19.1	ug/L	96			71	121	
	1,3-Dichlorobenzene	20	19.4	ug/L	97			80	119	
	1,4-Dichlorobenzene	20	19.2	ug/L	96			79	118	
	1,2-Dichlorobenzene	20	19.0	ug/L	95			80	119	

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.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8260-Low **Datafile :** VN087104.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN0619WBS01	1,2-Dibromo-3-Chloropropane	20	17.1	ug/L	86			62	128	
	1,2,4-Trichlorobenzene	20	16.0	ug/L	80			69	130	
	1,2,3-Trichlorobenzene	20	15.4	ug/L	77			69	129	

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0617WBL01

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN087047.D Lab Sample ID: VN0617WBL01

Date Analyzed: 06/17/2025 Time Analyzed: 10:20

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0617WBS01	VN0617WBS01	VN087051.D	06/17/2025
TT192D1-20250611	Q2329-01	VN087063.D	06/17/2025
TT188S1-20250612	Q2329-02	VN087064.D	06/17/2025
TT119S1-20250612	Q2329-03	VN087065.D	06/17/2025
TT162S1-20250613	Q2329-05	VN087067.D	06/17/2025
BPOW6-7-20250613	Q2329-06	VN087068.D	06/17/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0618WBL01

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN087076.D Lab Sample ID: VN0618WBL01

Date Analyzed: 06/18/2025 Time Analyzed: 11:46

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0618WBS01	VN0618WBS01	VN087077.D	06/18/2025
BPOW6-8-20250613	Q2329-07	VN087086.D	06/18/2025
BPOW6-11-20250613	Q2329-08	VN087087.D	06/18/2025
TT149S1-20250613	Q2329-09	VN087088.D	06/18/2025
DUP03-20250613	Q2329-13	VN087089.D	06/18/2025
DUP04-20250613	Q2329-14	VN087090.D	06/18/2025
TB01-20250612	Q2329-16	VN087092.D	06/18/2025
TB02-20250612	Q2329-17	VN087093.D	06/18/2025
TT163S1-20250613	Q2329-18	VN087094.D	06/18/2025
FB01-20250613	Q2329-04	VN087095.D	06/18/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0619WBL01

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN087102.D Lab Sample ID: VN0619WBL01

Date Analyzed: 06/19/2025 Time Analyzed: 10:26

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
EB01-20250613	Q2329-15	VN087103.D	06/19/2025
VN0619WBS01	VN0619WBS01	VN087104.D	06/19/2025
TT172S1-20250613	Q2329-10	VN087117.D	06/19/2025
TT172S1-20250613MS	Q2329-11MS	VN087118.D	06/19/2025
TT172S1-20250613MSD	Q2329-12MSD	VN087119.D	06/19/2025

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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN086861.D BFB Injection Date: 06/06/2025

Instrument ID: MSVOA_N BFB Injection Time: 07:59

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	48.1
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	0.7 (1) 1
174	50.0 - 100.0% of mass 95	66.6
175	5.0 - 9.0% of mass 174	4.7 (7.1) 1
176	95.0 - 101.0% of mass 174	65.3 (98.1) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VN086862.D	06/06/2025	12:44
VSTDICC005	VSTDICC005	VN086863.D	06/06/2025	13:17
VSTDICC020	VSTDICC020	VN086864.D	06/06/2025	13:40
VSTDICCC050	VSTDICCC050	VN086865.D	06/06/2025	14:03
VSTDICC100	VSTDICC100	VN086866.D	06/06/2025	14:26
VSTDICC150	VSTDICC150	VN086867.D	06/06/2025	14:49

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN087044.D BFB Injection Date: 06/17/2025

Instrument ID: MSVOA_N BFB Injection Time: 08:51

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16
75	30.0 - 60.0% of mass 95	47.3
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	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	73.6
175	5.0 - 9.0% of mass 174	5.1 (7) 1
176	95.0 - 101.0% of mass 174	70.3 (95.5) 1
177	5.0 - 9.0% of mass 176	5.1 (7.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN087045.D	06/17/2025	09:25
VN0617WBL01	VN0617WBL01	VN087047.D	06/17/2025	10:20
VN0617WBS01	VN0617WBS01	VN087051.D	06/17/2025	11:59
TT192D1-20250611	Q2329-01	VN087063.D	06/17/2025	16:30
TT188S1-20250612	Q2329-02	VN087064.D	06/17/2025	16:51
TT119S1-20250612	Q2329-03	VN087065.D	06/17/2025	17:13
TT162S1-20250613	Q2329-05	VN087067.D	06/17/2025	17:56
BPOW6-7-20250613	Q2329-06	VN087068.D	06/17/2025	18:17
VSTDCCC050EC	VSTDCCC050	VN087072.D	06/17/2025	19:43

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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN087073.D BFB Injection Date: 06/18/2025

Instrument ID: MSVOA_N BFB Injection Time: 08:43

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.1
75	30.0 - 60.0% of mass 95	46.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.6 (0.9) 1
174	50.0 - 100.0% of mass 95	69.7
175	5.0 - 9.0% of mass 174	5.3 (7.6) 1
176	95.0 - 101.0% of mass 174	68.3 (98) 1
177	5.0 - 9.0% of mass 176	5 (7.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN087074.D	06/18/2025	10:21
VN0618WBL01	VN0618WBL01	VN087076.D	06/18/2025	11:46
VN0618WBS01	VN0618WBS01	VN087077.D	06/18/2025	12:07
BPOW6-8-20250613	Q2329-07	VN087086.D	06/18/2025	15:24
BPOW6-11-20250613	Q2329-08	VN087087.D	06/18/2025	15:46
TT149S1-20250613	Q2329-09	VN087088.D	06/18/2025	16:08
DUP03-20250613	Q2329-13	VN087089.D	06/18/2025	16:30
DUP04-20250613	Q2329-14	VN087090.D	06/18/2025	16:52
TB01-20250612	Q2329-16	VN087092.D	06/18/2025	17:36
TB02-20250612	Q2329-17	VN087093.D	06/18/2025	17:57
TT163S1-20250613	Q2329-18	VN087094.D	06/18/2025	18:18
FB01-20250613	Q2329-04	VN087095.D	06/18/2025	18:39
VSTDCCC050EC	VSTDCCC050	VN087098.D	06/18/2025	19:42

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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN087099.D BFB Injection Date: 06/19/2025

Instrument ID: MSVOA_N BFB Injection Time: 08:58

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.1
75	30.0 - 60.0% of mass 95	44.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	70.2
175	5.0 - 9.0% of mass 174	5 (7.1) 1
176	95.0 - 101.0% of mass 174	68.6 (97.7) 1
177	5.0 - 9.0% of mass 176	4.5 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN087100.D	06/19/2025	09:31
VN0619WBL01	VN0619WBL01	VN087102.D	06/19/2025	10:26
EB01-20250613	Q2329-15	VN087103.D	06/19/2025	10:47
VN0619WBS01	VN0619WBS01	VN087104.D	06/19/2025	12:22
TT172S1-20250613	Q2329-10	VN087117.D	06/19/2025	17:10
TT172S1-20250613MS	Q2329-11MS	VN087118.D	06/19/2025	17:31
TT172S1-20250613MSD	Q2329-12MSD	VN087119.D	06/19/2025	17:52
VSTDCCC050EC	VSTDCCC050	VN087120.D	06/19/2025	18:13

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN087045.D Date Analyzed: 06/17/2025

Instrument ID: MSVOA_N Time Analyzed: 09:25

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	178887	8.23	312096	9.11	278021	11.87
UPPER LIMIT	357774	8.73	624192	9.606	556042	12.365
LOWER LIMIT	89443.5	7.73	156048	8.606	139011	11.365
EPA SAMPLE NO.						
TT192D1-20250611	200437	8.23	399463	9.11	355638	11.87
TT188S1-20250612	262569	8.24	525578	9.11	472016	11.87
TT119S1-20250612	282994	8.23	562247	9.11	504751	11.86
TT162S1-20250613	290343	8.23	583906	9.11	526439	11.87
BPOW6-7-20250613	202684	8.23	406226	9.11	361194	11.87
VN0617WBL01	200915	8.23	403651	9.11	368689	11.87
VN0617WBS01	157438	8.23	281588	9.11	248700	11.87

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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN087045.D Date Analyzed: 06/17/2025

Instrument ID: MSVOA_N Time Analyzed: 09:25

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	137590	13.788				
UPPER LIMIT	275180	14.288				
LOWER LIMIT	68795	13.288				
EPA SAMPLE NO.						
TT192D1-20250611	167802	13.79				
TT188S1-20250612	222915	13.79				
TT119S1-20250612	235936	13.79				
TT162S1-20250613	248696	13.79				
BPOW6-7-20250613	175252	13.79				
VN0617WBL01	170553	13.79				
VN0617WBS01	122529	13.79				

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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN087074.D Date Analyzed: 06/18/2025

Instrument ID: MSVOA_N Time Analyzed: 10:21

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	217200	8.23	377846	9.11	330017	11.87
UPPER LIMIT	434400	8.729	755692	9.606	660034	12.365
LOWER LIMIT	108600	7.729	188923	8.606	165009	11.365
EPA SAMPLE NO.						
FB01-20250613	177161	8.23	362021	9.11	325288	11.87
BPOW6-8-20250613	192609	8.24	387116	9.11	350512	11.87
BPOW6-11-20250613	169193	8.24	343634	9.11	309468	11.87
TT149S1-20250613	253025	8.24	501869	9.11	459032	11.87
DUP03-20250613	270167	8.24	555521	9.11	502443	11.87
DUP04-20250613	187618	8.24	379825	9.11	344732	11.87
TB01-20250612	182714	8.24	371831	9.11	338148	11.86
TB02-20250612	179779	8.23	370663	9.11	331725	11.87
TT163S1-20250613	165721	8.23	339420	9.11	306857	11.87
VN0618WBL01	270298	8.23	541331	9.11	486295	11.87
VN0618WBS01	213664	8.23	379722	9.11	333122	11.87

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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN087074.D Date Analyzed: 06/18/2025

Instrument ID: MSVOA_N Time Analyzed: 10:21

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	164001	13.788				
UPPER LIMIT	328002	14.288				
LOWER LIMIT	82000.5	13.288				
EPA SAMPLE NO.						
FB01-20250613	153113	13.79				
BPOW6-8-20250613	166828	13.79				
BPOW6-11-20250613	143673	13.79				
TT149S1-20250613	210865	13.79				
DUP03-20250613	235183	13.79				
DUP04-20250613	162129	13.79				
TB01-20250612	158047	13.79				
TB02-20250612	154445	13.79				
TT163S1-20250613	141945	13.79				
VN0618WBL01	227513	13.79				
VN0618WBS01	167760	13.79				

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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN087100.D Date Analyzed: 06/19/2025

Instrument ID: MSVOA_N Time Analyzed: 09:31

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	157053	8.23	278046	9.11	245271	11.87
UPPER LIMIT	314106	8.729	556092	9.606	490542	12.365
LOWER LIMIT	78526.5	7.729	139023	8.606	122636	11.365
EPA SAMPLE NO.						
TT172S1-20250613	174693	8.23	347567	9.11	313987	11.87
TT172S1-20250613MS	180737	8.23	323339	9.11	287602	11.87
TT172S1-20250613MSD	177485	8.23	324249	9.11	281966	11.87
EB01-20250613	167515	8.23	339842	9.11	308249	11.87
VN0619WBL01	180966	8.23	368878	9.11	337249	11.87
VN0619WBS01	168651	8.23	300634	9.11	265368	11.87

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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: VN087100.D Date Analyzed: 06/19/2025

Instrument ID: MSVOA_N Time Analyzed: 09:31

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	126484	13.788				
UPPER LIMIT	252968	14.288				
LOWER LIMIT	63242	13.288				
EPA SAMPLE NO.						
TT172S1-20250613	147771	13.79				
TT172S1-20250613MS	145576	13.79				
TT172S1-20250613MSD	142178	13.79				
EB01-20250613	141080	13.79				
VN0619WBL01	156562	13.79				
VN0619WBS01	132931	13.79				

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:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT192D1-20250611	SDG No.:	Q2329
Lab Sample ID:	Q2329-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087063.D	1		06/17/25 16:30	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	2.50	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT192D1-20250611	SDG No.:	Q2329
Lab Sample ID:	Q2329-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087063.D	1		06/17/25 16:30	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.5		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	52.0		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	200000	8.23				
540-36-3	1,4-Difluorobenzene	399000	9.106				
3114-55-4	Chlorobenzene-d5	356000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	168000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT192D1-20250611	SDG No.:	Q2329
Lab Sample ID:	Q2329-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087063.D	1		06/17/25 16:30	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061725\
Data File : VN087063.D
Acq On : 17 Jun 2025 16:30
Operator : JC\MD
Sample : Q2329-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 18 01:50:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	200437	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	399463	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	355638	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	167802	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	140788	52.462	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.920%			
35) Dibromofluoromethane	8.177	113	120142	50.750	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.500%			
50) Toluene-d8	10.565	98	486877	51.953	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.900%			
62) 4-Bromofluorobenzene	12.847	95	173023	49.693	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.380%			
Target Compounds						Qvalue
16) Acetone	4.459	43	3497m	2.457	ug/l	

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

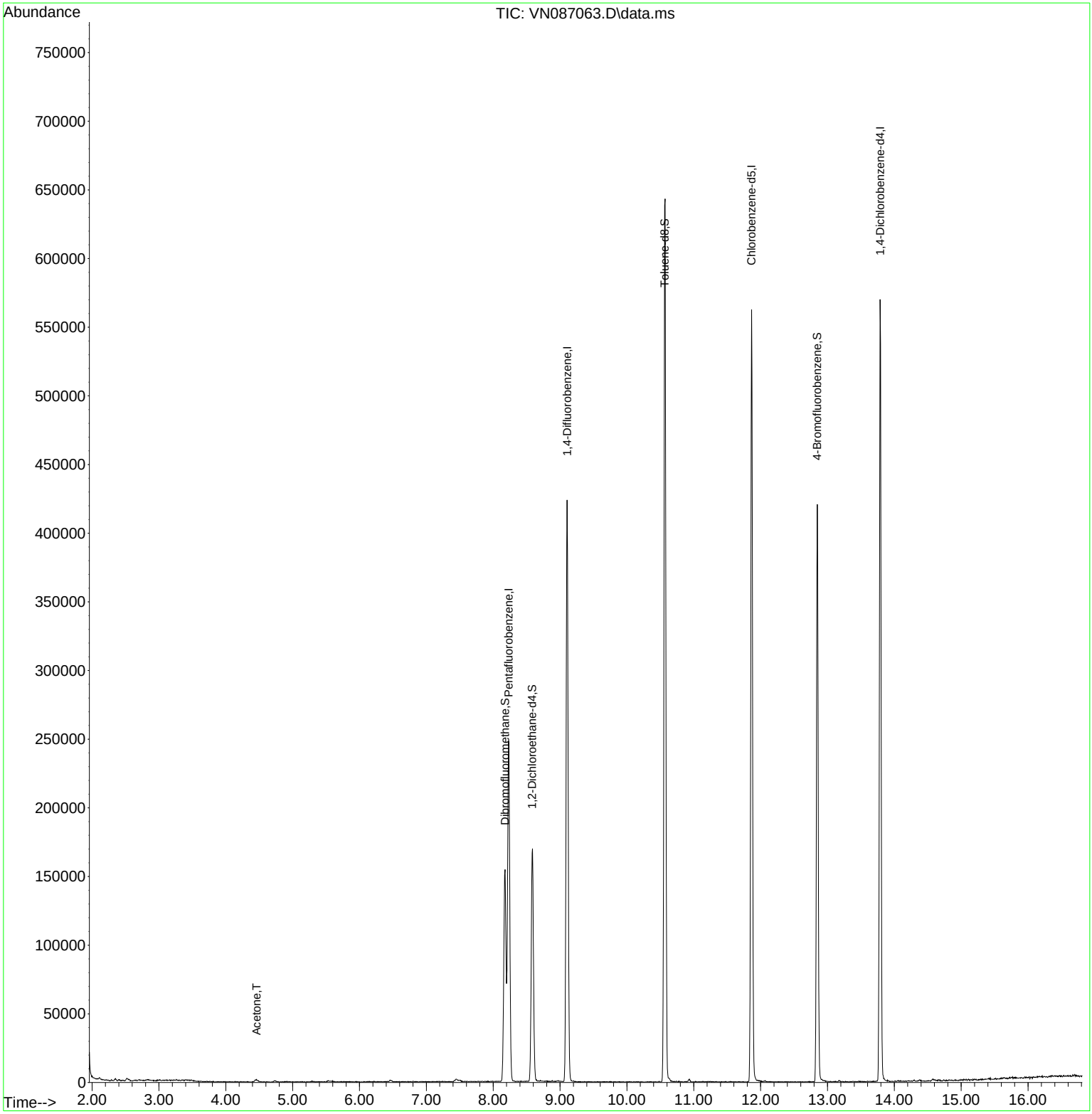
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087063.D
Acq On : 17 Jun 2025 16:30
Operator : JC\MD
Sample : Q2329-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

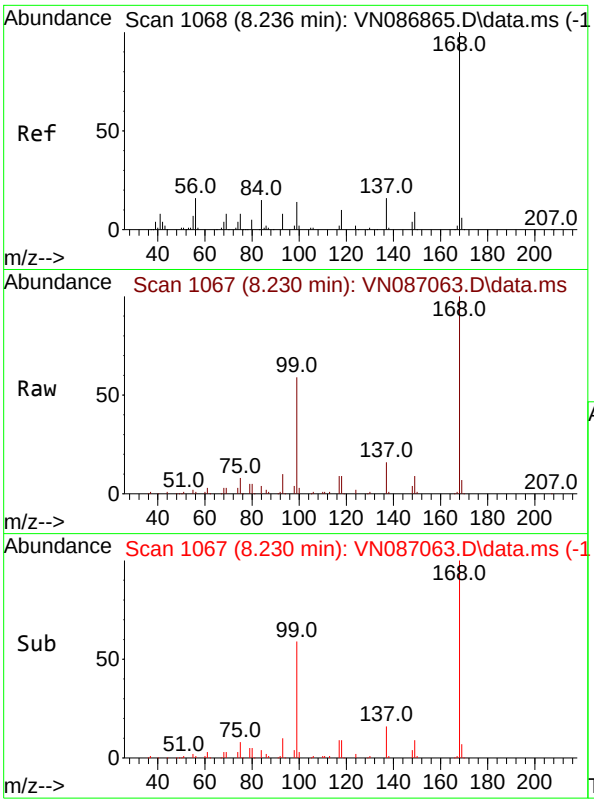
Quant Time: Jun 18 01:50:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

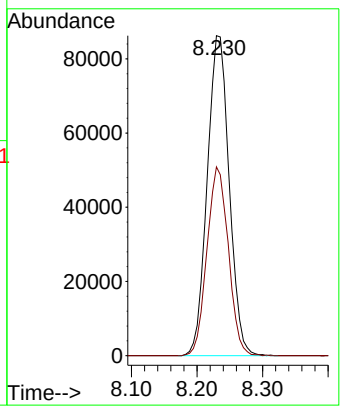




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion:168 Resp: 20043

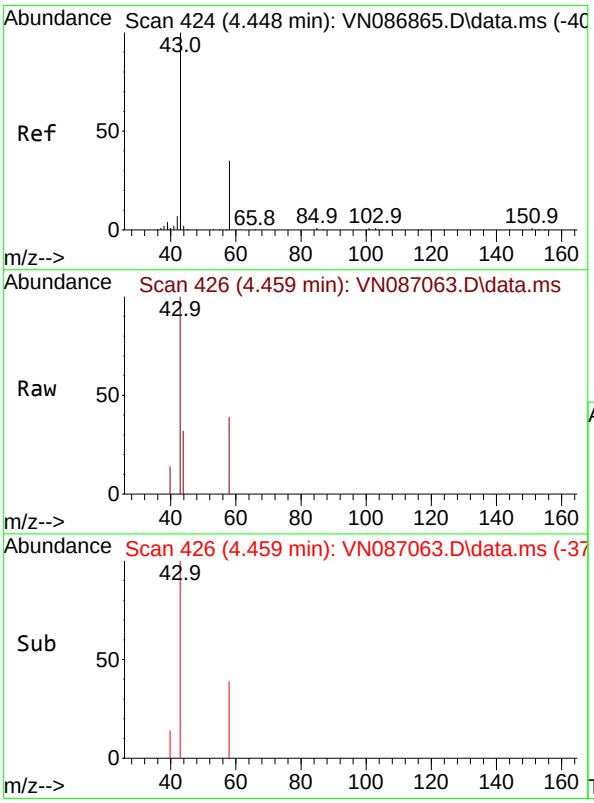
Ion	Ratio	Lower	Upper
168	100		
99	59.0	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Manual Integrations
APPROVED

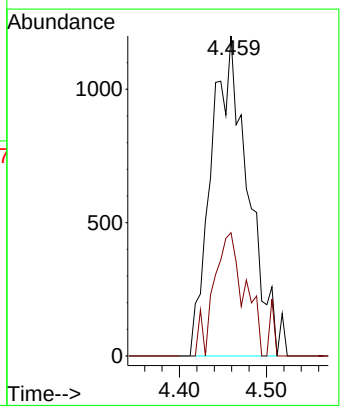
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

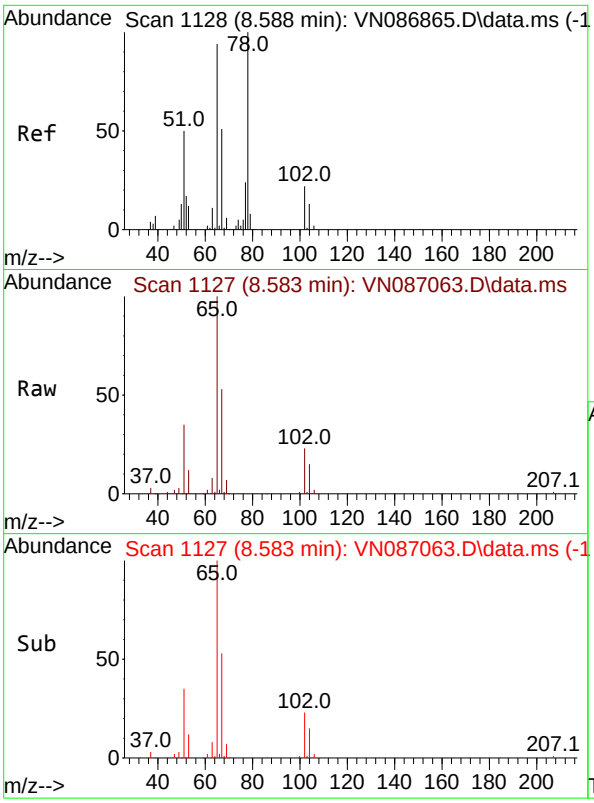


#16
Acetone
Concen: 2.457 ug/l m
RT: 4.459 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion: 43 Resp: 3497

Ion	Ratio	Lower	Upper
43	100		
58	38.5	28.0	42.0

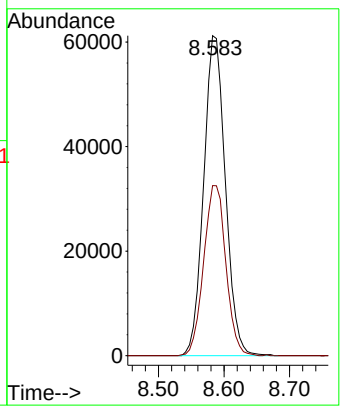




#33
1,2-Dichloroethane-d4
Concen: 52.462 ug/l
RT: 8.583 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion: 65 Resp: 14078

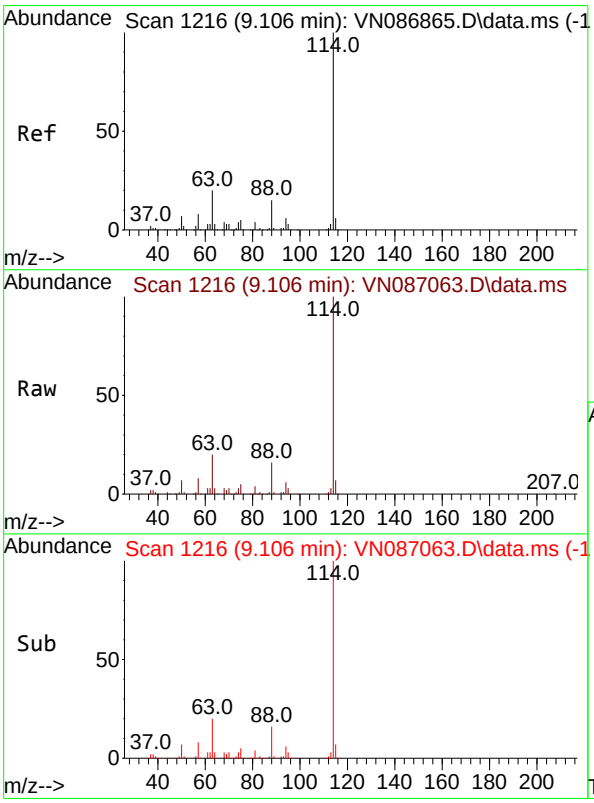
Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Manual Integrations
APPROVED

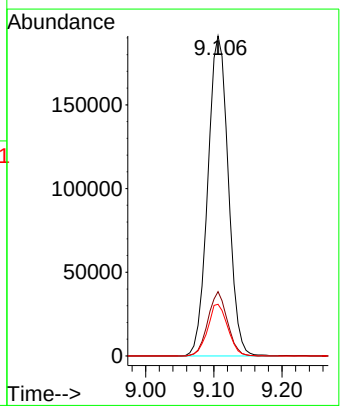
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

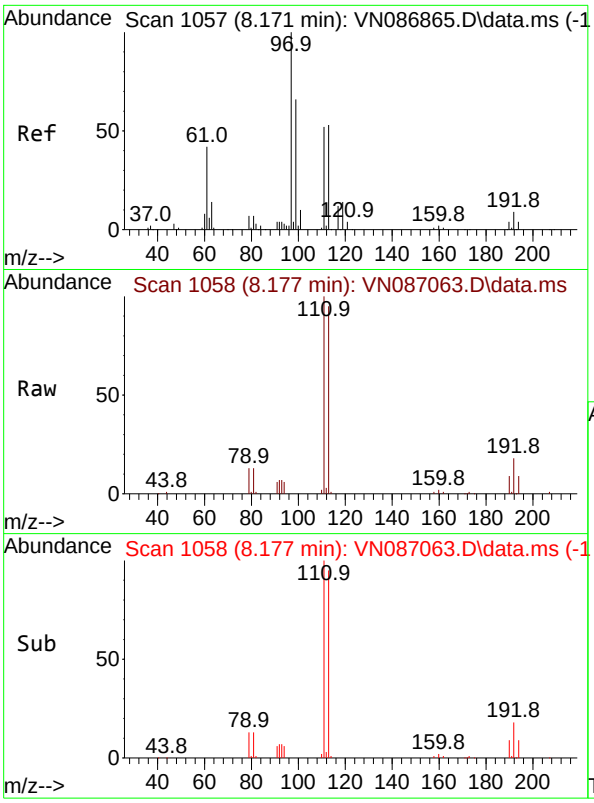


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion:114 Resp: 399463

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	39.6
88	16.1	0.0	30.2

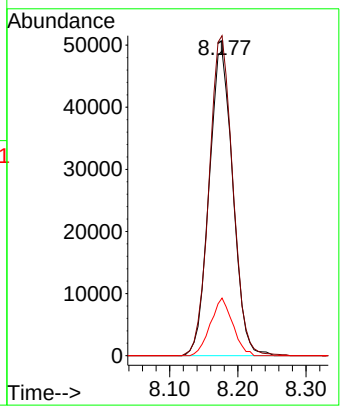




#35
Dibromofluoromethane
Concen: 50.750 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion:113 Resp: 12014

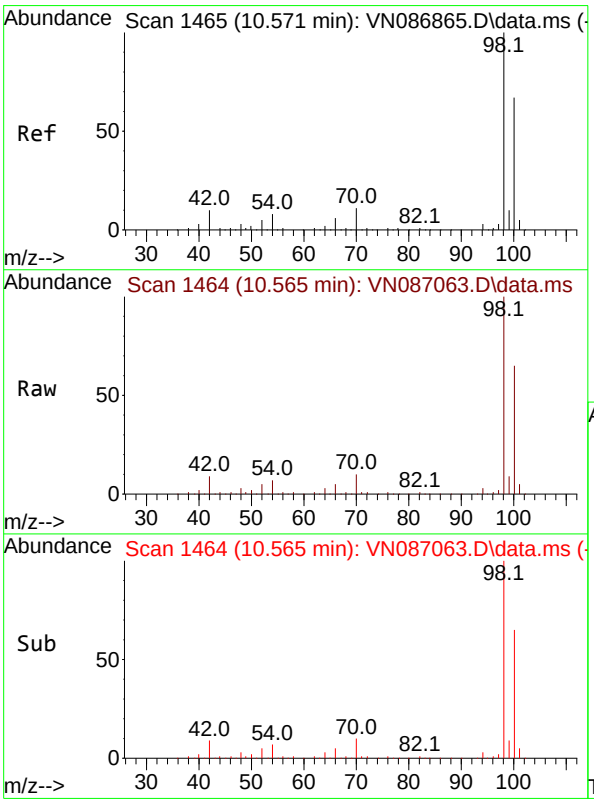
Ion	Ratio	Lower	Upper
113	100		
111	103.9	84.2	126.2
192	17.5	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Manual Integrations
APPROVED

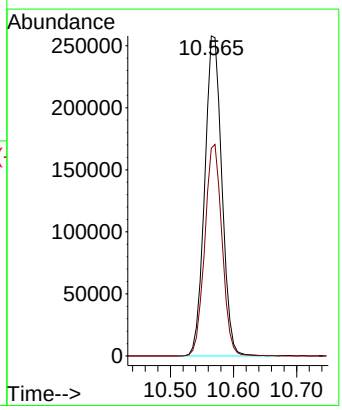
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

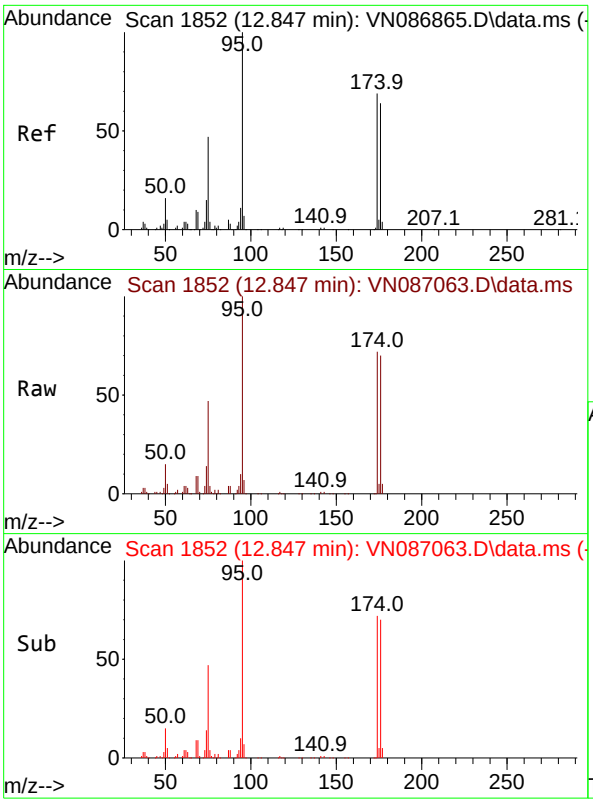


#50
Toluene-d8
Concen: 51.953 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion: 98 Resp: 486877

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.4	80.0

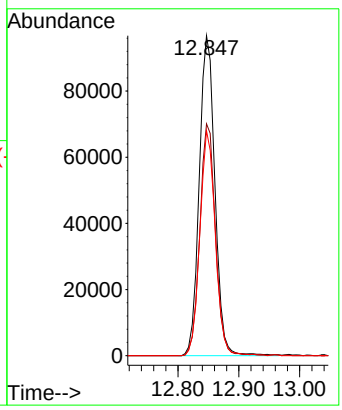




#62
4-Bromofluorobenzene
Concen: 49.693 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion: 95 Resp: 17302

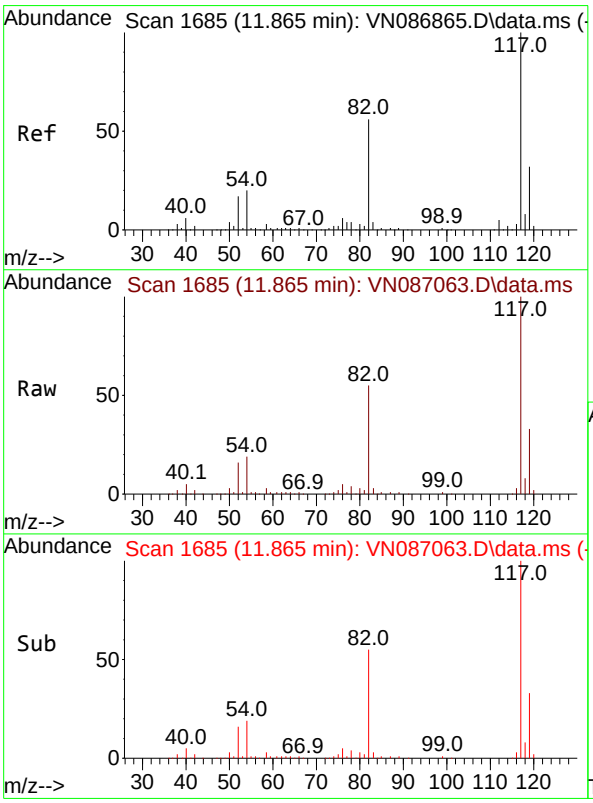
Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.8
176	69.3	0.0	132.6



Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Manual Integrations
APPROVED

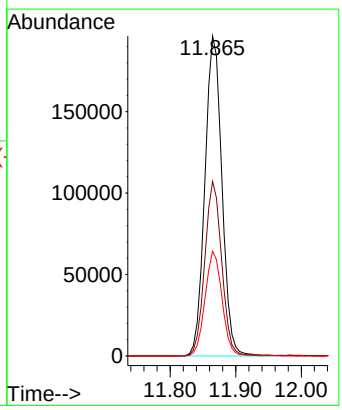
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

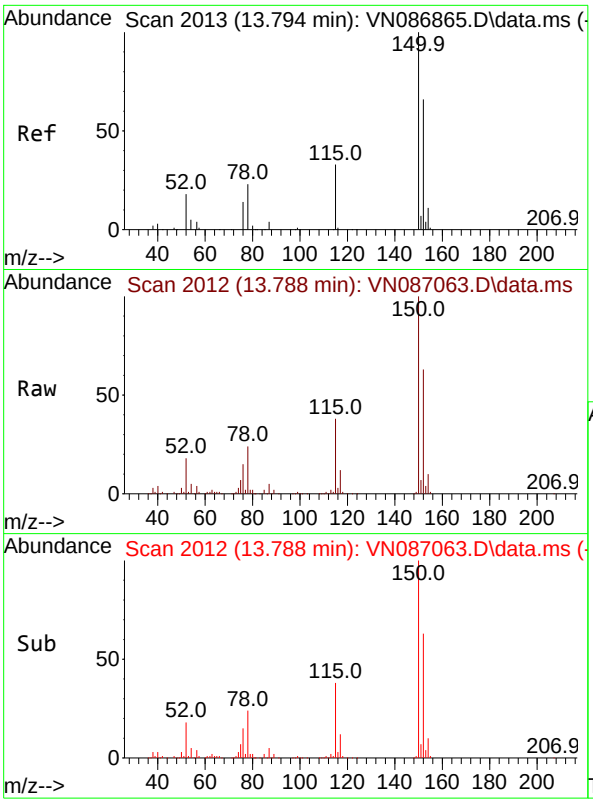


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion:117 Resp: 355638

Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.6	67.0
119	32.7	25.5	38.3

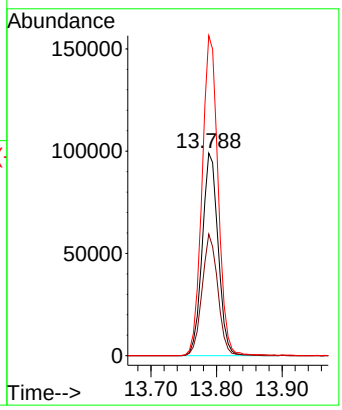




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion:152 Resp: 16780

Ion	Ratio	Lower	Upper
152	100		
115	59.3	30.1	90.5
150	158.6	0.0	345.0



Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT188S1-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087064.D	1		06/17/25 16:51	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	4.30		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT188S1-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087064.D	1		06/17/25 16:51	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.0		81 - 118		104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	52.2		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	263000	8.235				
540-36-3	1,4-Difluorobenzene	526000	9.106				
3114-55-4	Chlorobenzene-d5	472000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	223000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT188S1-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087064.D	1		06/17/25 16:51	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061725\
Data File : VN087064.D
Acq On : 17 Jun 2025 16:51
Operator : JC\MD
Sample : Q2329-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT188S1-20250612

Quant Time: Jun 18 01:51:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

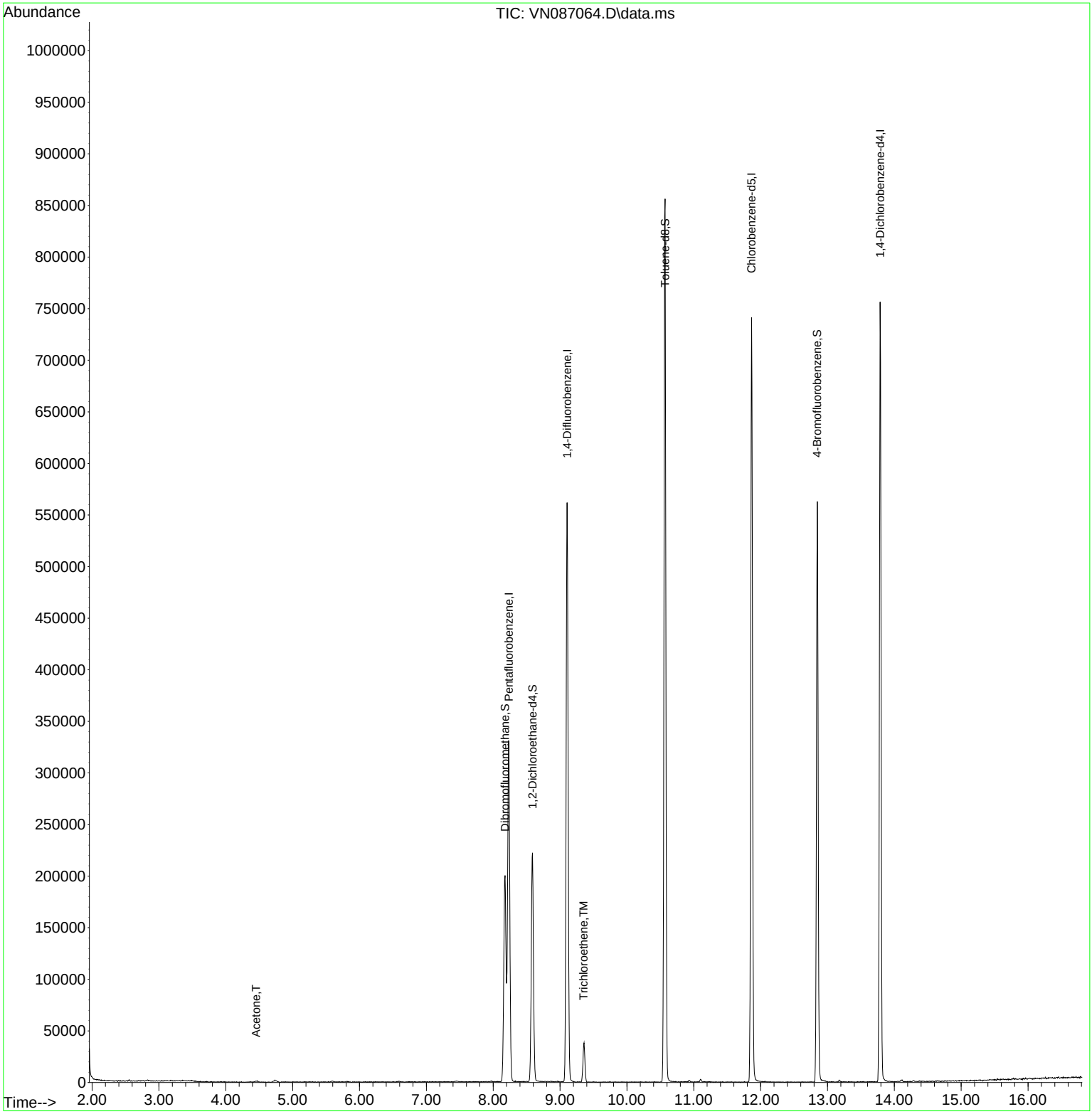
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	262569	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	525578	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	472016	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	222915	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	182650	51.956	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.920%			
35) Dibromofluoromethane	8.177	113	157445	50.549	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.100%			
50) Toluene-d8	10.571	98	643870	52.219	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.440%			
62) 4-Bromofluorobenzene	12.847	95	227515	49.664	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.320%			
Target Compounds						Qvalue
16) Acetone	4.453	43	1951	1.047	ug/l #	73
44) Trichloroethene	9.353	130	15452	4.294	ug/l	90

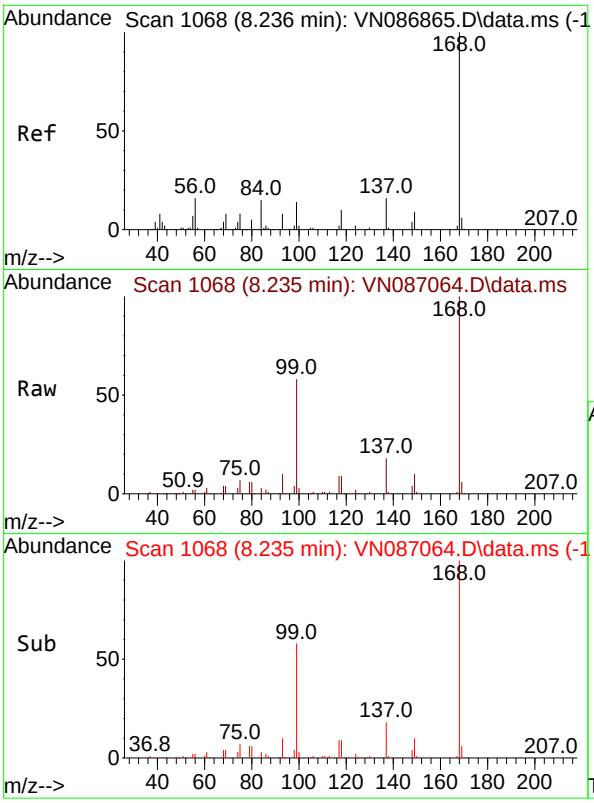
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087064.D
Acq On : 17 Jun 2025 16:51
Operator : JC\MD
Sample : Q2329-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT188S1-20250612

Quant Time: Jun 18 01:51:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



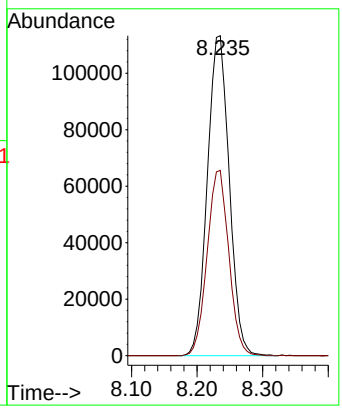


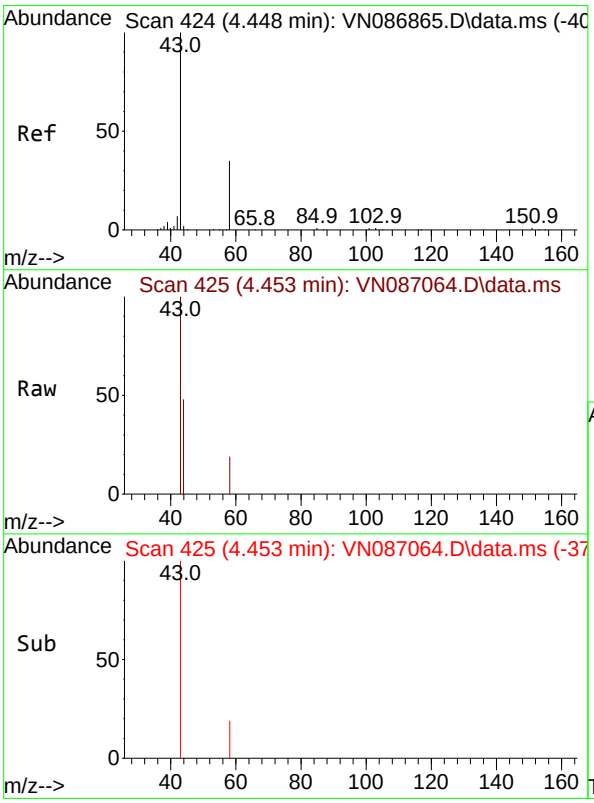
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN087064.D
Acq: 17 Jun 2025 16:51

Instrument :
MSVOA_N
ClientSampleId :
TT188S1-20250612

Tgt Ion:168 Resp: 262569

Ion	Ratio	Lower	Upper
168	100		
99	57.9	49.1	73.7

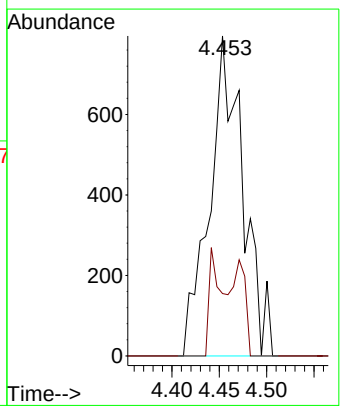


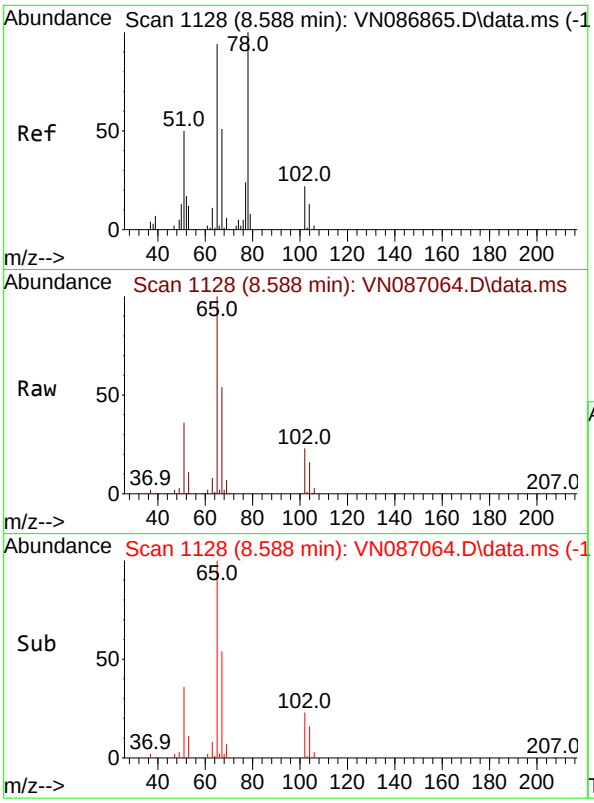


#16
Acetone
Concen: 1.047 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.006 min
Lab File: VN087064.D
Acq: 17 Jun 2025 16:51

Tgt Ion: 43 Resp: 1951

Ion	Ratio	Lower	Upper
43	100		
58	19.5	28.0	42.0#



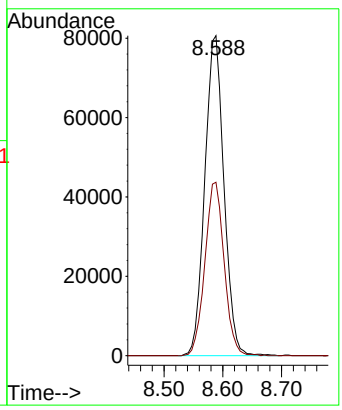


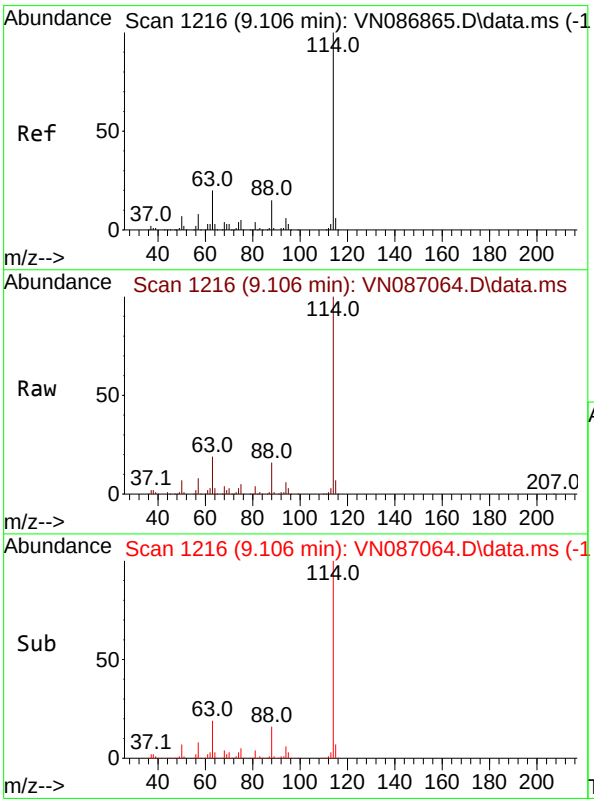
#33
1,2-Dichloroethane-d4
Concen: 51.956 ug/l
RT: 8.588 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087064.D
Acq: 17 Jun 2025 16:51

Instrument :
MSVOA_N
ClientSampleId :
TT188S1-20250612

Tgt Ion: 65 Resp: 182650

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.6

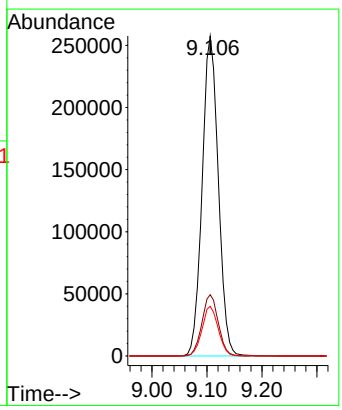


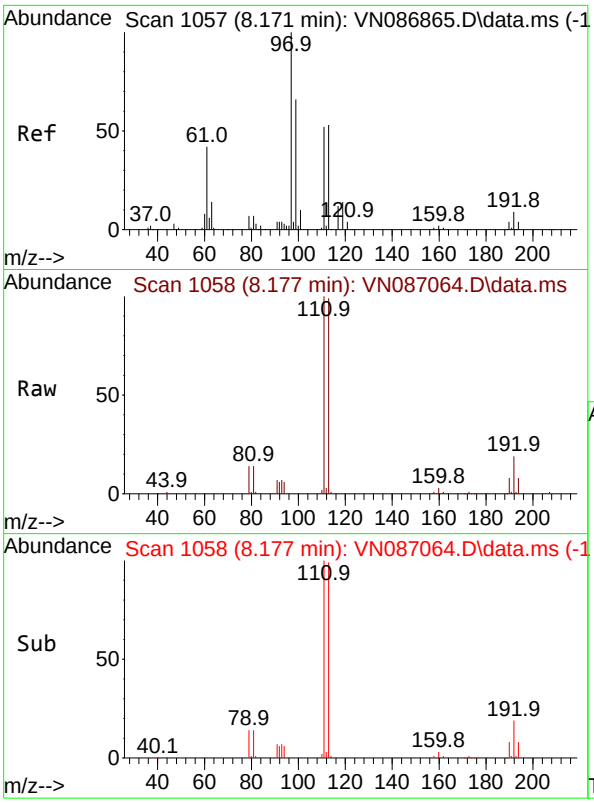


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087064.D
Acq: 17 Jun 2025 16:51

Tgt Ion:114 Resp: 525578

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	39.6
88	15.5	0.0	30.2



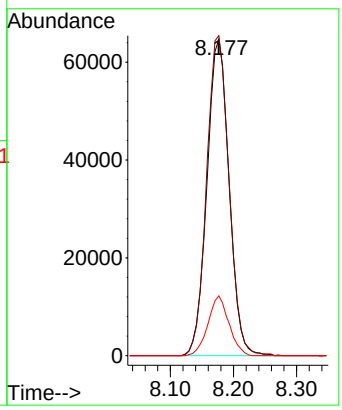


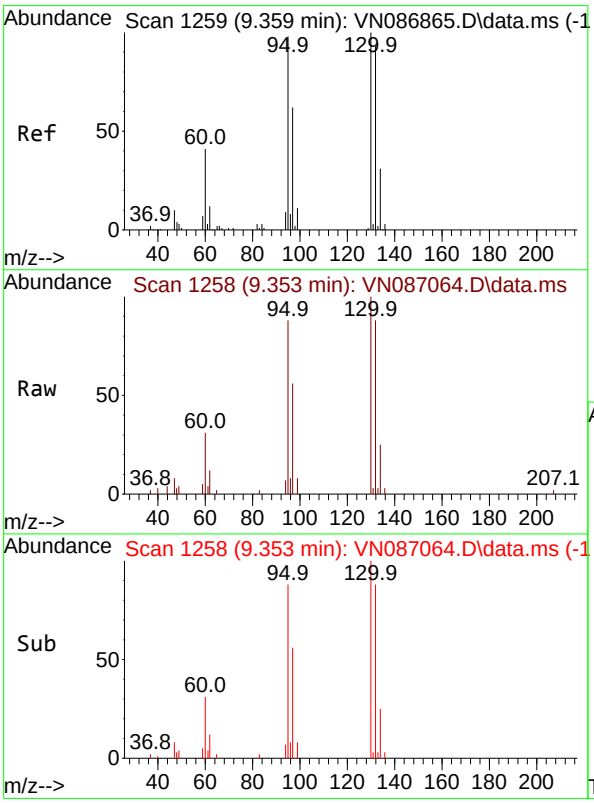
#35
Dibromofluoromethane
Concen: 50.549 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087064.D
Acq: 17 Jun 2025 16:51

Instrument :
MSVOA_N
ClientSampleId :
TT188S1-20250612

Tgt Ion:113 Resp: 157445

Ion	Ratio	Lower	Upper
113	100		
111	102.2	84.2	126.2
192	17.9	14.2	21.4

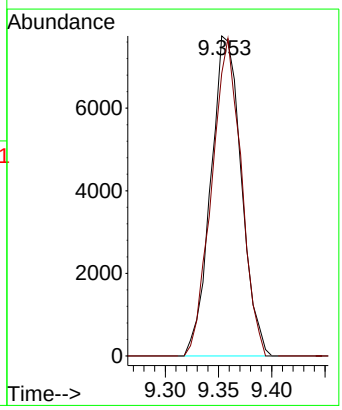


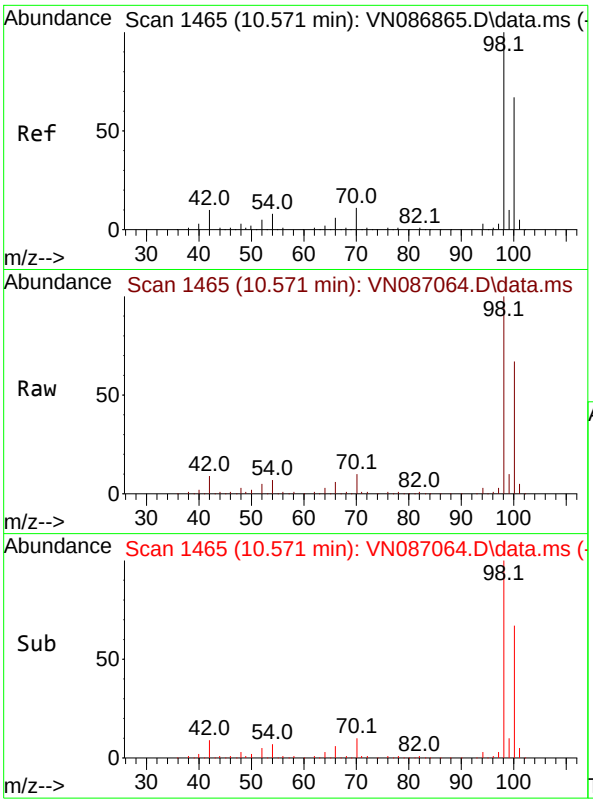


#44
Trichloroethene
Concen: 4.294 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN087064.D
Acq: 17 Jun 2025 16:51

Tgt Ion:130 Resp: 15452

Ion	Ratio	Lower	Upper
130	100		
95	88.3	0.0	196.2



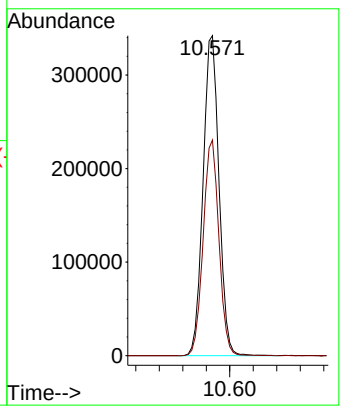


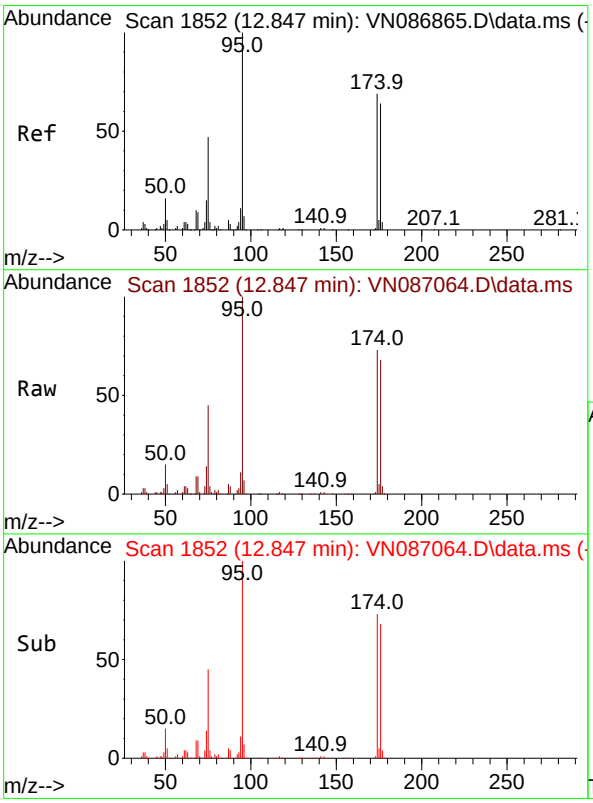
#50
Toluene-d8
Concen: 52.219 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087064.D
Acq: 17 Jun 2025 16:51

Instrument :
MSVOA_N
ClientSampleId :
TT188S1-20250612

Tgt Ion: 98 Resp: 643870

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.4	80.0

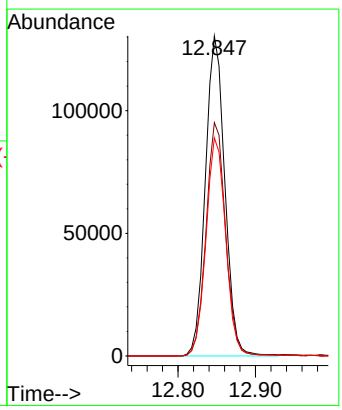


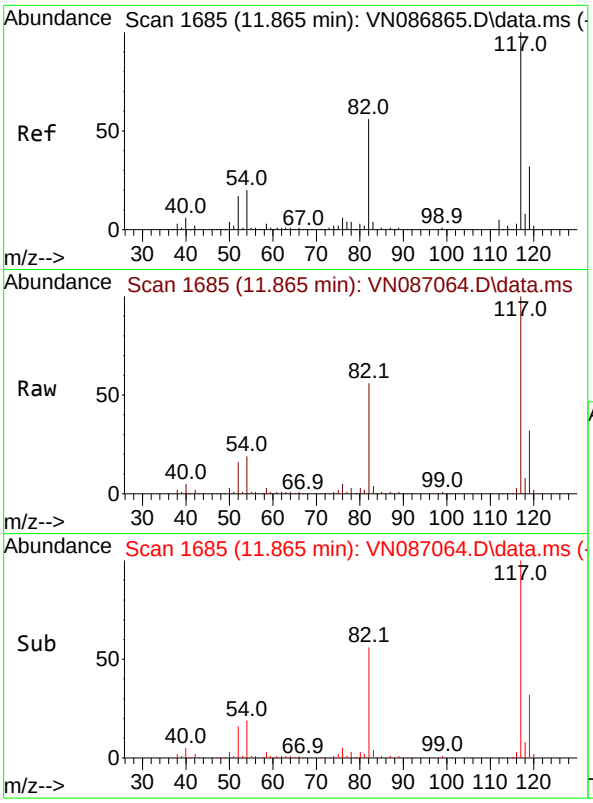


#62
4-Bromofluorobenzene
Concen: 49.664 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087064.D
Acq: 17 Jun 2025 16:51

Tgt Ion: 95 Resp: 227515

Ion	Ratio	Lower	Upper
95	100		
174	73.7	0.0	141.8
176	68.9	0.0	132.6



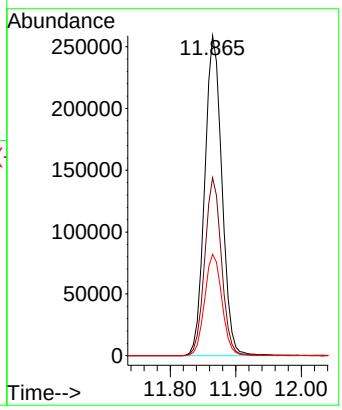


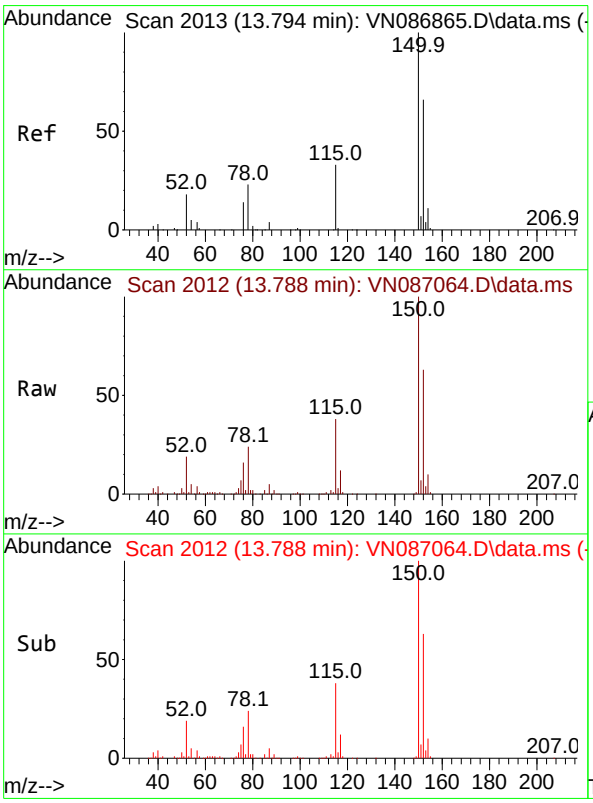
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087064.D
Acq: 17 Jun 2025 16:51

Instrument :
MSVOA_N
ClientSampleId :
TT188S1-20250612

Tgt Ion:117 Resp: 472016

Ion	Ratio	Lower	Upper
117	100		
82	55.6	44.6	67.0
119	31.7	25.5	38.3

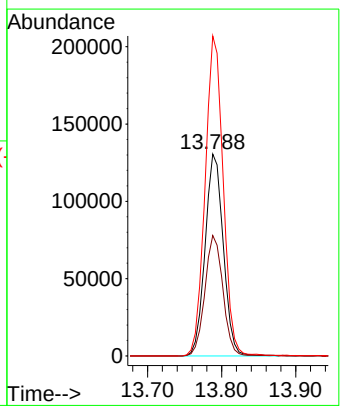




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087064.D
Acq: 17 Jun 2025 16:51

Tgt Ion:152 Resp: 222915

Ion	Ratio	Lower	Upper
152	100		
115	59.1	30.1	90.5
150	157.1	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT119S1-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087065.D	1		06/17/25 17:13	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	1.20		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT119S1-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087065.D	1		06/17/25 17:13	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.4		81 - 118		103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	52.4		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	283000	8.229				
540-36-3	1,4-Difluorobenzene	562000	9.106				
3114-55-4	Chlorobenzene-d5	505000	11.864				
3855-82-1	1,4-Dichlorobenzene-d4	236000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT119S1-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-03	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087065.D	1		06/17/25 17:13	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061725\
Data File : VN087065.D
Acq On : 17 Jun 2025 17:13
Operator : JC\MD
Sample : Q2329-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT119S1-20250612

Quant Time: Jun 18 01:51:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

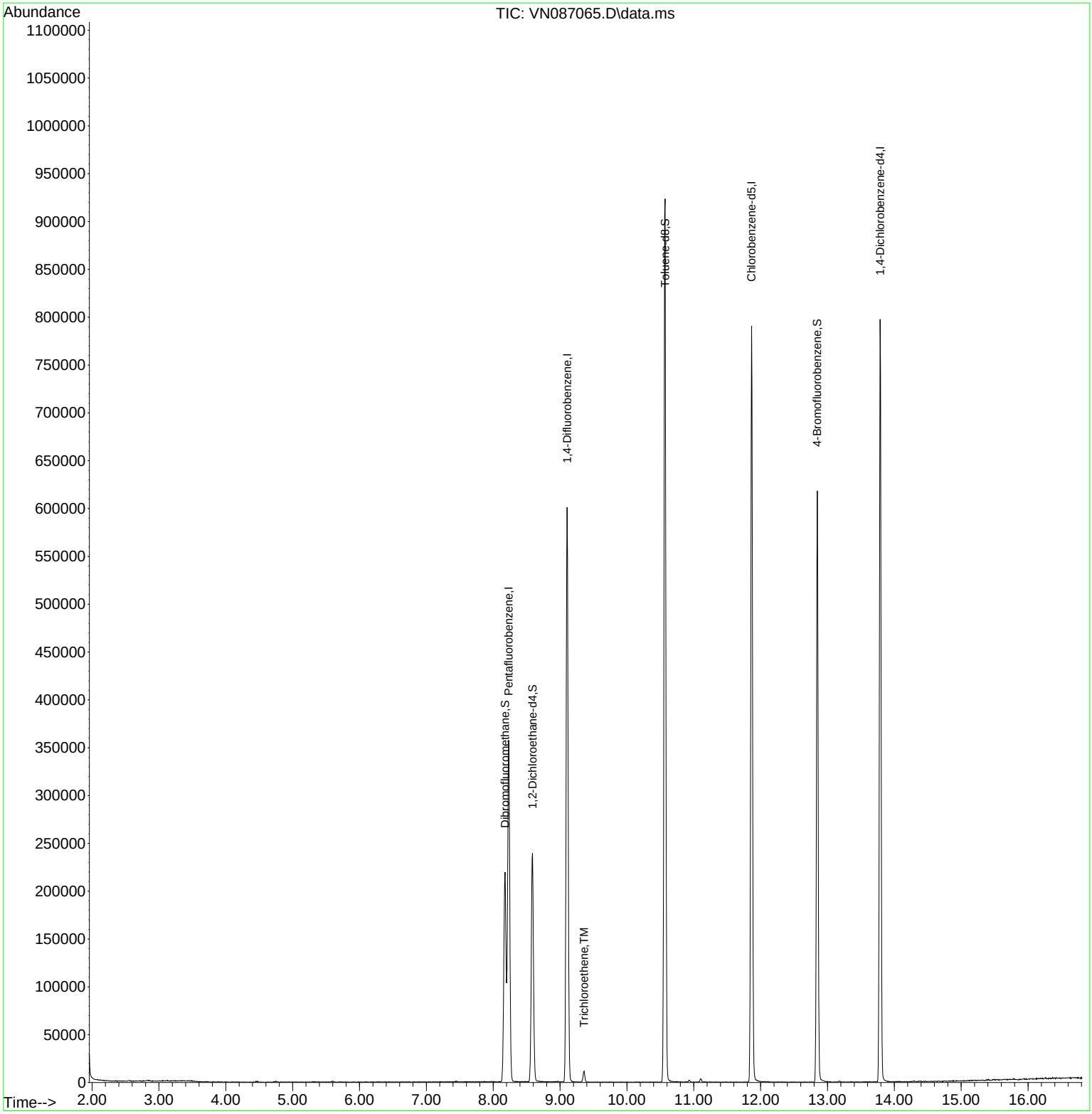
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	282994	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	562247	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	504751	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	235936	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	194771	51.405	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.800%			
35) Dibromofluoromethane	8.177	113	171035	51.331	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.660%			
50) Toluene-d8	10.570	98	690846	52.374	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.740%			
62) 4-Bromofluorobenzene	12.847	95	244256	49.841	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.680%			
Target Compounds						Qvalue
44) Trichloroethene	9.359	130	4718	1.226	ug/l	86

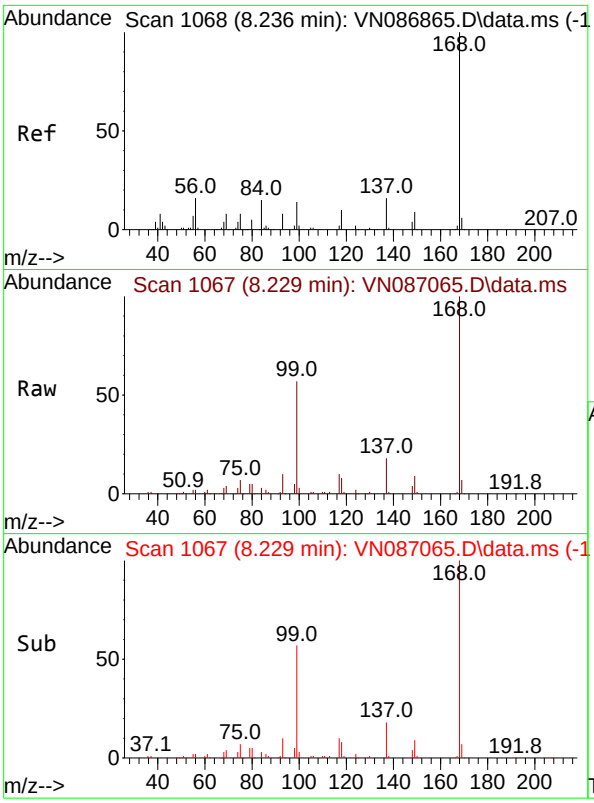
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087065.D
Acq On : 17 Jun 2025 17:13
Operator : JC\MD
Sample : Q2329-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT119S1-20250612

Quant Time: Jun 18 01:51:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



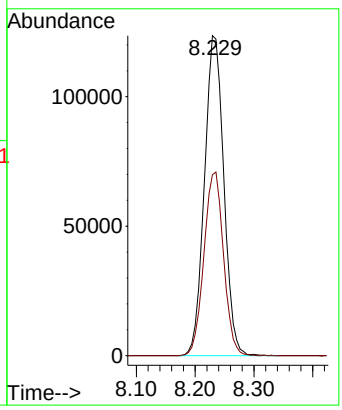


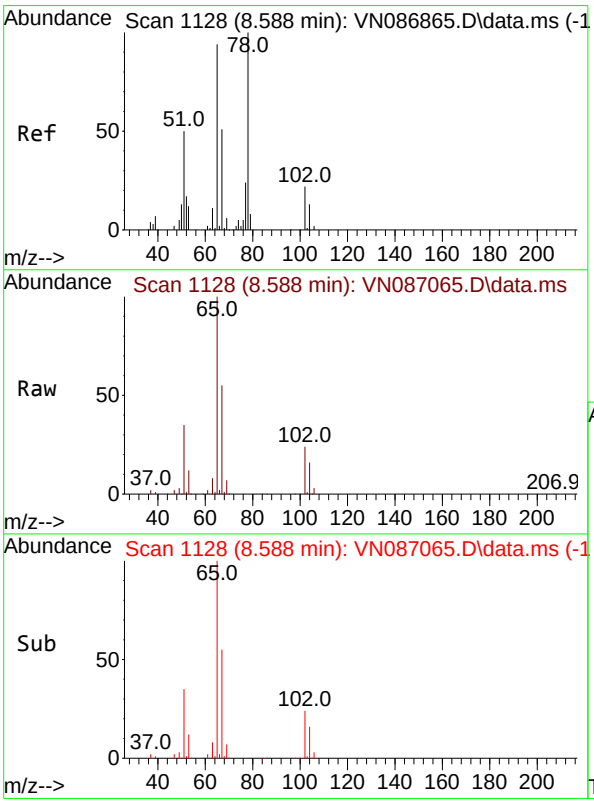
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN087065.D
Acq: 17 Jun 2025 17:13

Instrument :
MSVOA_N
ClientSampleId :
TT119S1-20250612

Tgt Ion:168 Resp: 282994

Ion	Ratio	Lower	Upper
168	100		
99	56.6	49.1	73.7

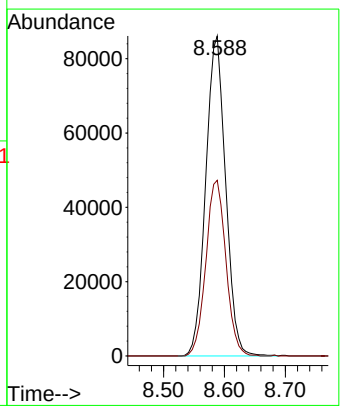


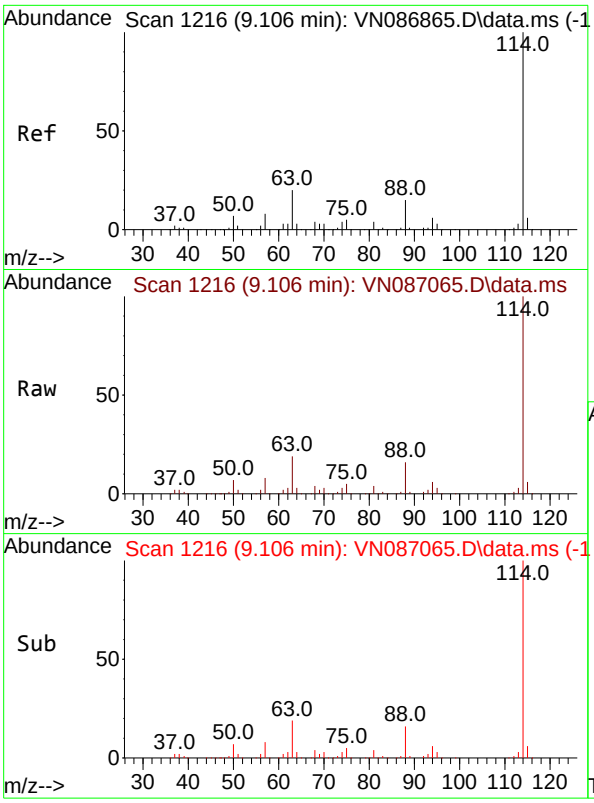


#33
1,2-Dichloroethane-d4
Concen: 51.405 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087065.D
Acq: 17 Jun 2025 17:13

Tgt Ion: 65 Resp: 194771

Ion	Ratio	Lower	Upper
65	100		
67	55.4	0.0	105.6



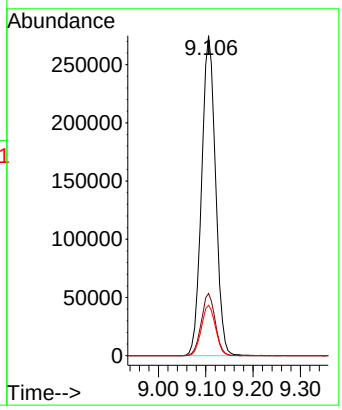


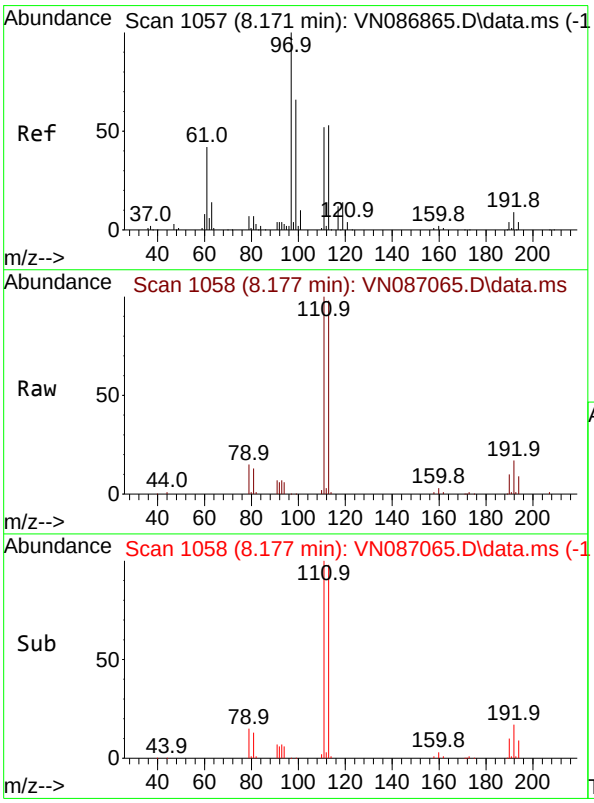
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087065.D
Acq: 17 Jun 2025 17:13

Instrument :
MSVOA_N
ClientSampleId :
TT119S1-20250612

Tgt Ion:114 Resp: 562247

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	39.6
88	15.7	0.0	30.2

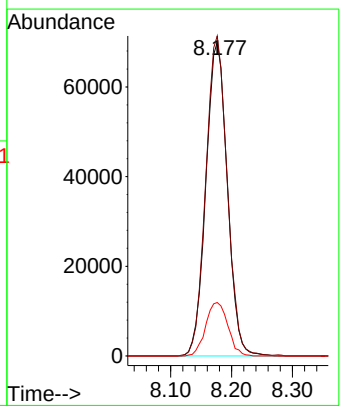


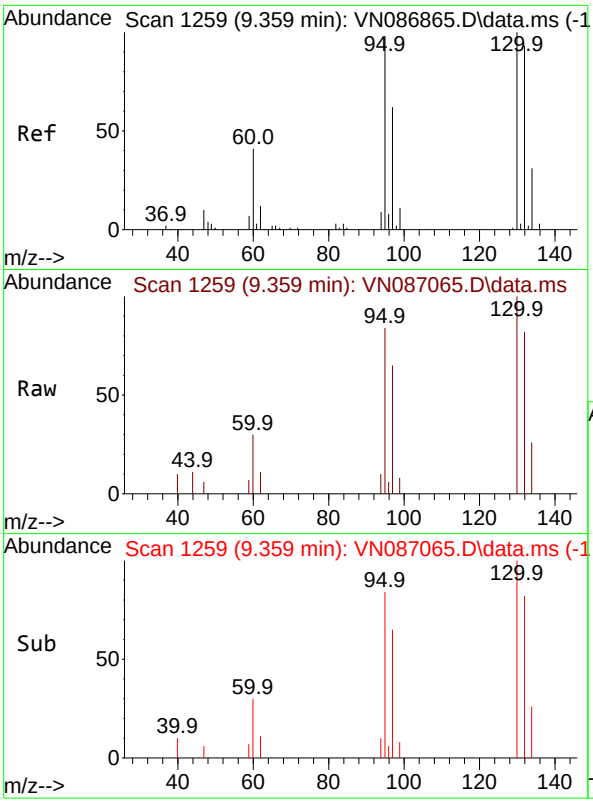


#35
Dibromofluoromethane
Concen: 51.331 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087065.D
Acq: 17 Jun 2025 17:13

Tgt Ion:113 Resp: 171035

Ion	Ratio	Lower	Upper
113	100		
111	101.8	84.2	126.2
192	17.6	14.2	21.4



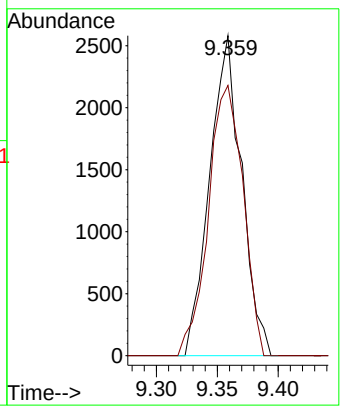


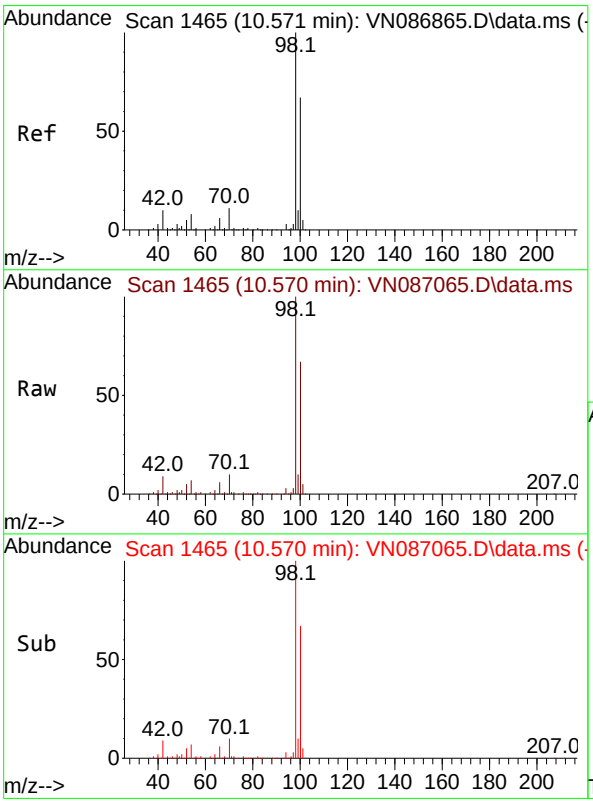
#44
Trichloroethene
Concen: 1.226 ug/l
RT: 9.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087065.D
Acq: 17 Jun 2025 17:13

Instrument :
MSVOA_N
ClientSampleId :
TT119S1-20250612

Tgt Ion:130 Resp: 4718

Ion	Ratio	Lower	Upper
130	100		
95	84.5	0.0	196.2

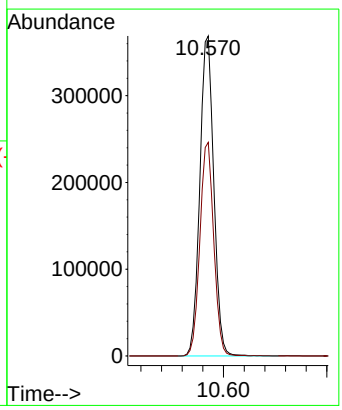


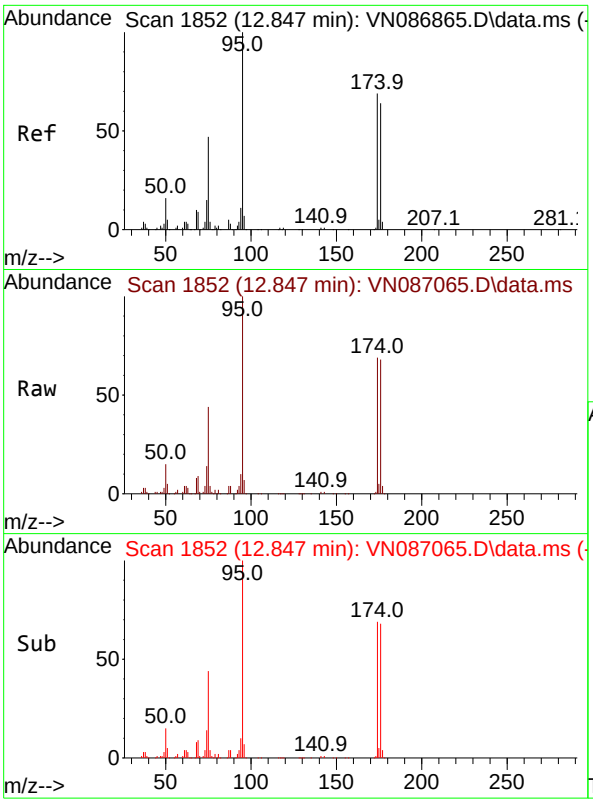


#50
Toluene-d8
Concen: 52.374 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN087065.D
Acq: 17 Jun 2025 17:13

Tgt Ion: 98 Resp: 690846

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.4	80.0



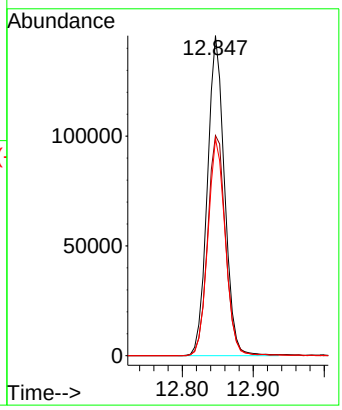


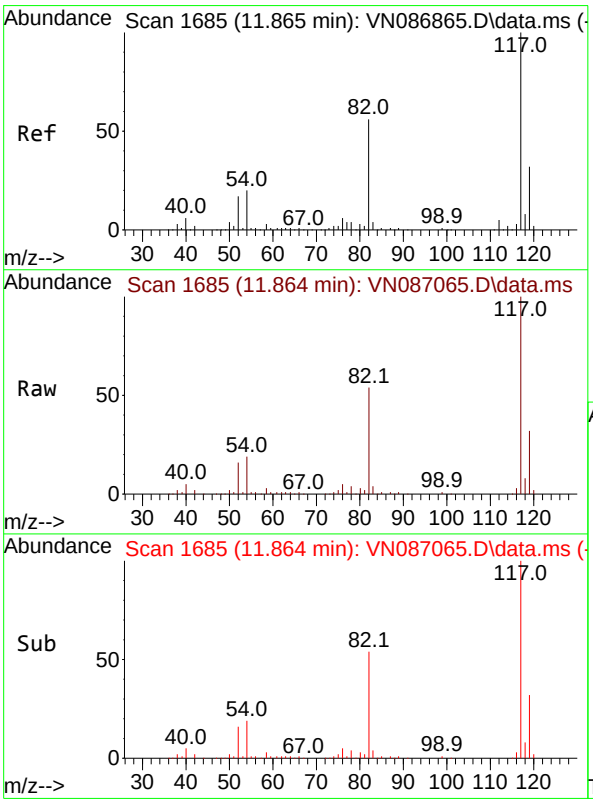
#62
4-Bromofluorobenzene
Concen: 49.841 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087065.D
Acq: 17 Jun 2025 17:13

Instrument :
MSVOA_N
ClientSampleId :
TT119S1-20250612

Tgt Ion: 95 Resp: 244256

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	141.8
176	69.0	0.0	132.6

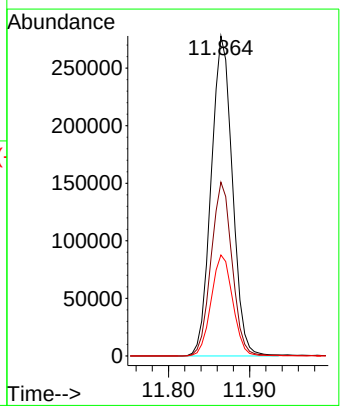


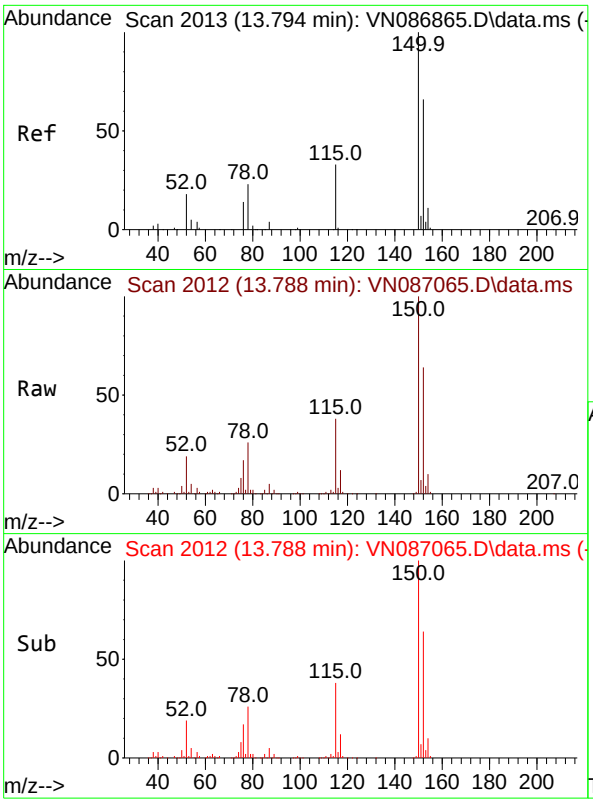


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.864 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087065.D
Acq: 17 Jun 2025 17:13

Tgt Ion:117 Resp: 504751

Ion	Ratio	Lower	Upper
117	100		
82	54.3	44.6	67.0
119	31.6	25.5	38.3



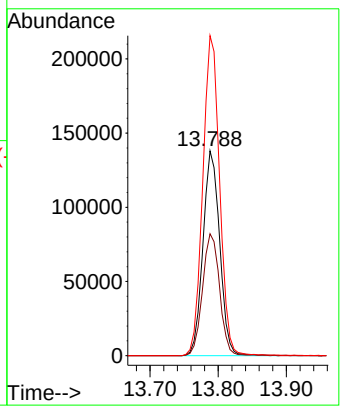


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087065.D
Acq: 17 Jun 2025 17:13

Instrument :
MSVOA_N
ClientSampleId :
TT119S1-20250612

Tgt Ion:152 Resp: 235936

Ion	Ratio	Lower	Upper
152	100		
115	60.7	30.1	90.5
150	157.1	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	FB01-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087095.D	1		06/18/25 18:39	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	11.1		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	2.00		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	FB01-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087095.D	1		06/18/25 18:39	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.3		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	52.7		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.0		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	177000	8.229				
540-36-3	1,4-Difluorobenzene	362000	9.106				
3114-55-4	Chlorobenzene-d5	325000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	153000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	FB01-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-04	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087095.D	1		06/18/25 18:39	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061825\
Data File : VN087095.D
Acq On : 18 Jun 2025 18:39
Operator : JC\MD
Sample : Q2329-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB01-20250613

Quant Time: Jun 19 01:33:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

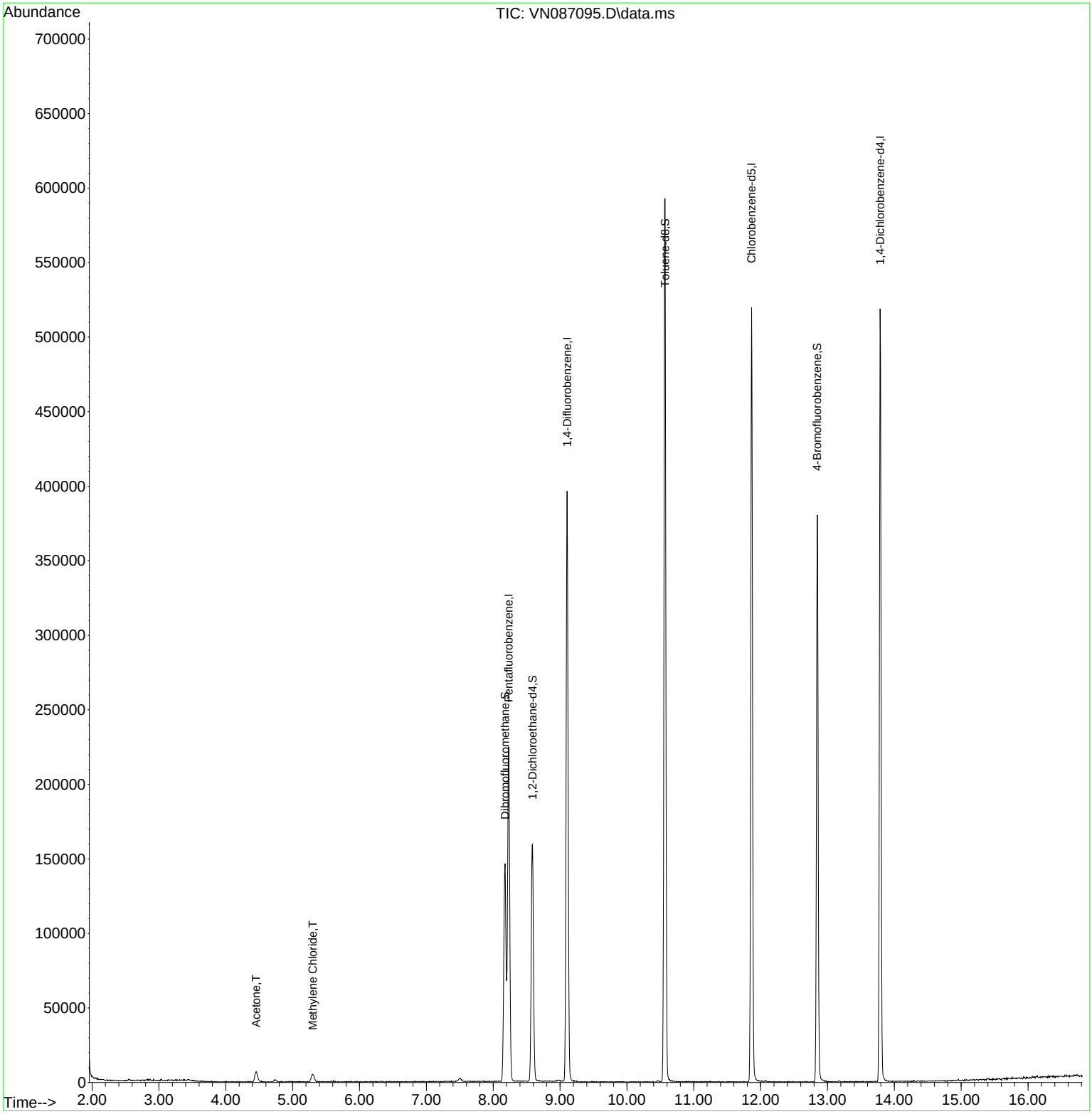
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	177161	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	362021	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	325288	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	153113	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	133529	56.294	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 112.580%			
35) Dibromofluoromethane	8.177	113	113292	52.806	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.620%			
50) Toluene-d8	10.570	98	447665	52.709	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.420%			
62) 4-Bromofluorobenzene	12.847	95	151423	47.988	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.980%			
Target Compounds						Qvalue
16) Acetone	4.453	43	13976	11.111	ug/l	90
20) Methylene Chloride	5.300	84	4663	1.980	ug/l	94

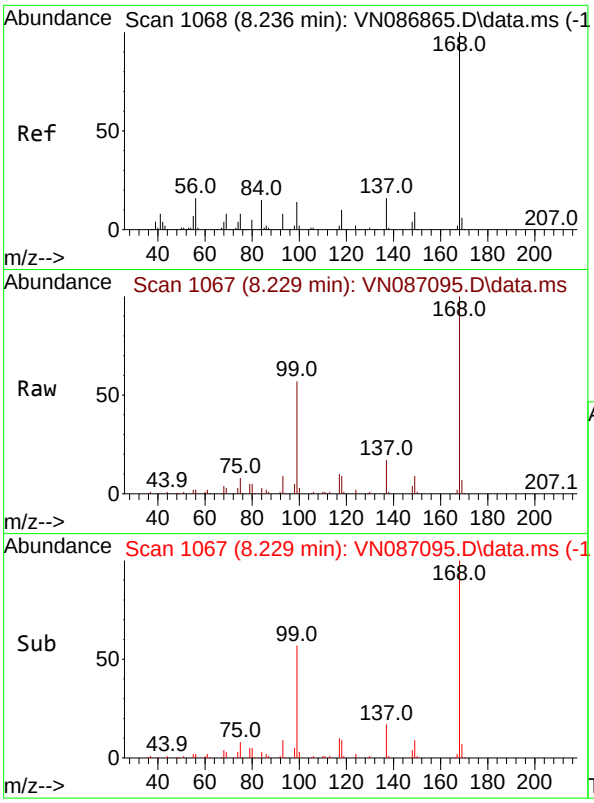
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087095.D
Acq On : 18 Jun 2025 18:39
Operator : JC\MD
Sample : Q2329-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FB01-20250613

Quant Time: Jun 19 01:33:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



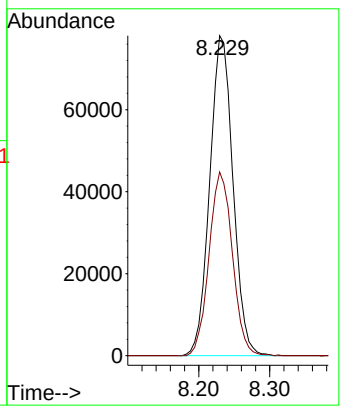


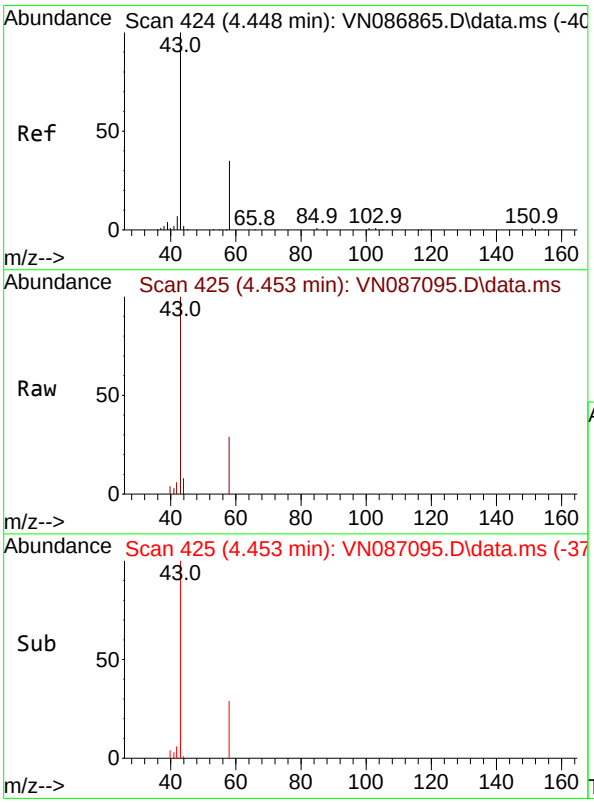
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN087095.D
Acq: 18 Jun 2025 18:39

Instrument :
MSVOA_N
ClientSampleId :
FB01-20250613

Tgt Ion:168 Resp: 177161

Ion	Ratio	Lower	Upper
168	100		
99	57.4	49.1	73.7

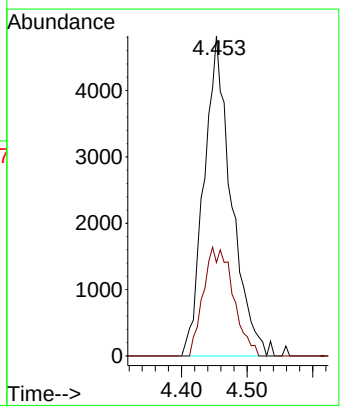


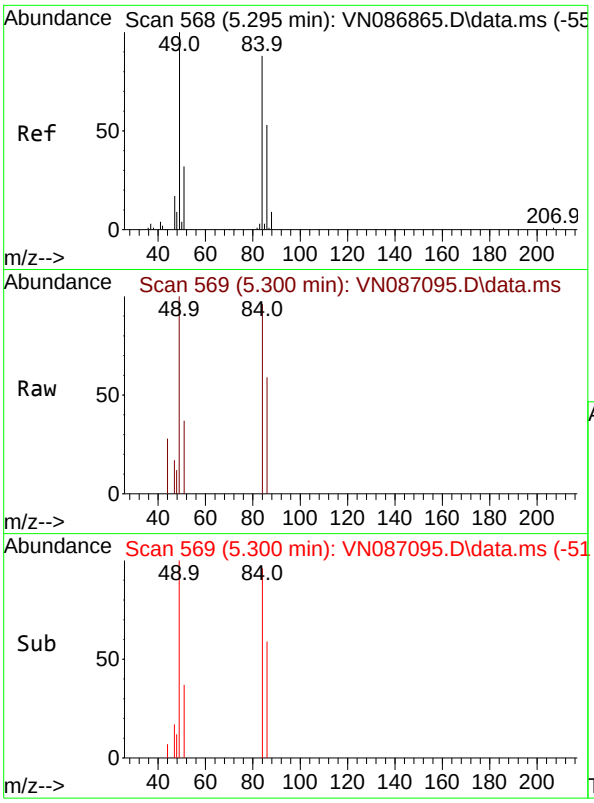


#16
Acetone
Concen: 11.111 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.006 min
Lab File: VN087095.D
Acq: 18 Jun 2025 18:39

Tgt Ion: 43 Resp: 13976

Ion	Ratio	Lower	Upper
43	100		
58	29.2	28.0	42.0



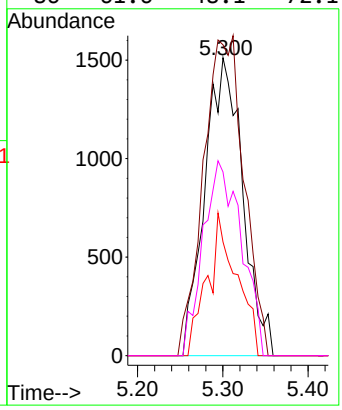


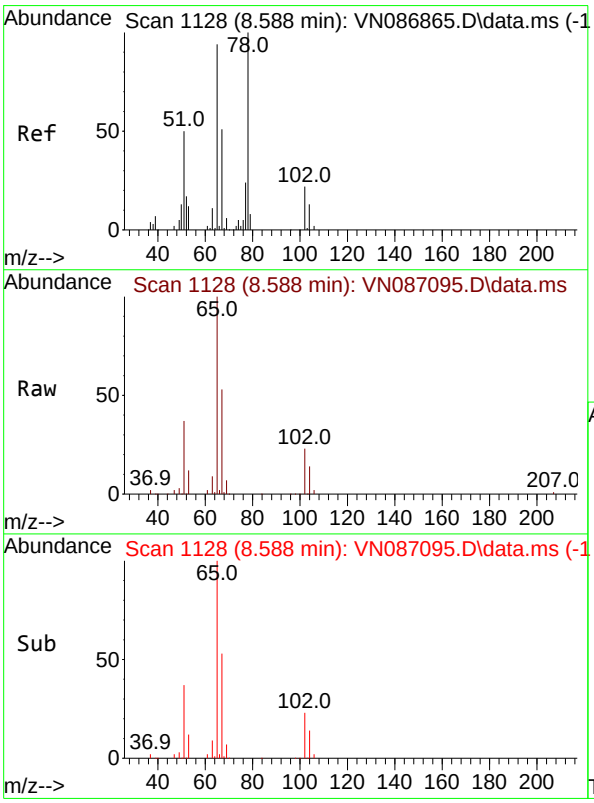
#20
Methylene Chloride
Concen: 1.980 ug/l
RT: 5.300 min Scan# 5
Delta R.T. 0.006 min
Lab File: VN087095.D
Acq: 18 Jun 2025 18:39

Instrument :
MSVOA_N
ClientSampleId :
FB01-20250613

Tgt Ion: 84 Resp: 4663

Ion	Ratio	Lower	Upper
84	100		
49	104.4	90.5	135.7
51	38.2	28.5	42.7
86	61.6	48.1	72.1

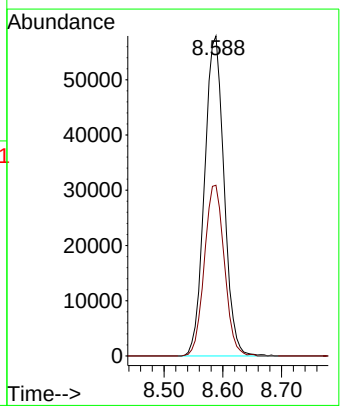


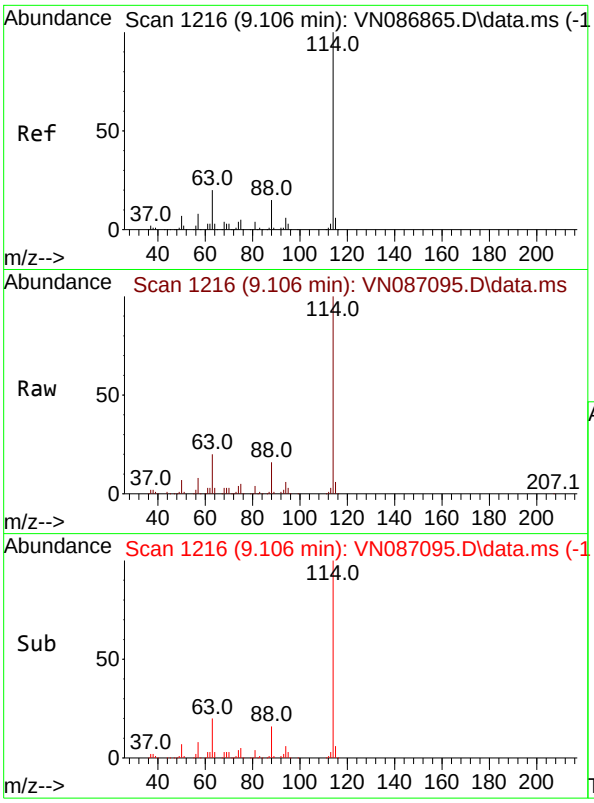


#33
1,2-Dichloroethane-d4
Concen: 56.294 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087095.D
Acq: 18 Jun 2025 18:39

Tgt Ion: 65 Resp: 133529

Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	105.6



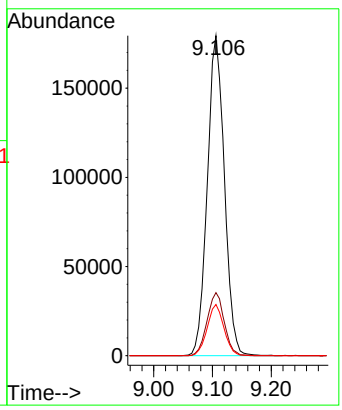


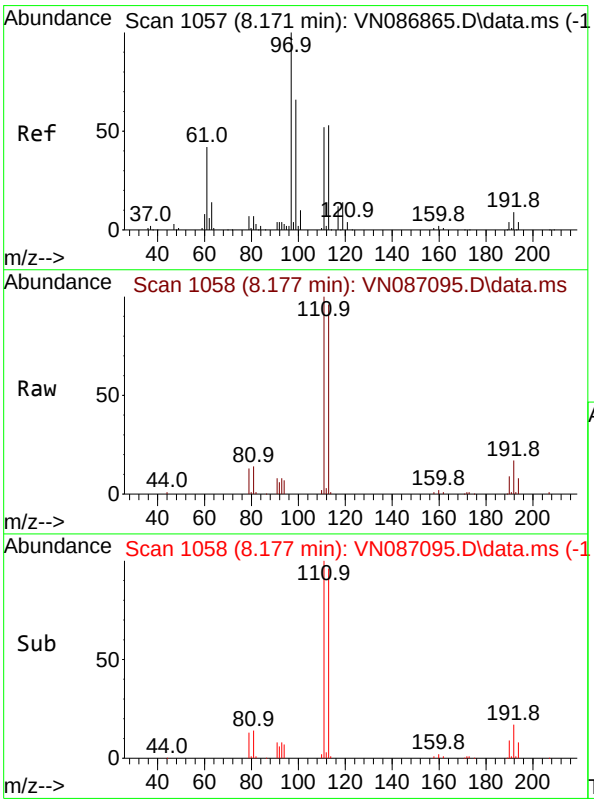
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087095.D
Acq: 18 Jun 2025 18:39

Instrument :
MSVOA_N
ClientSampleId :
FB01-20250613

Tgt Ion:114 Resp: 362021

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	39.6
88	16.0	0.0	30.2

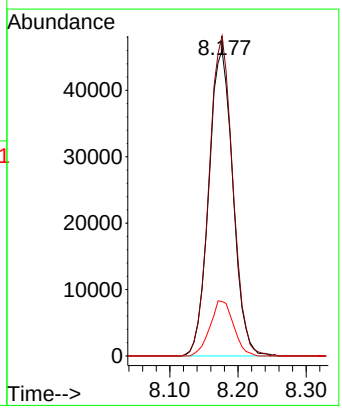


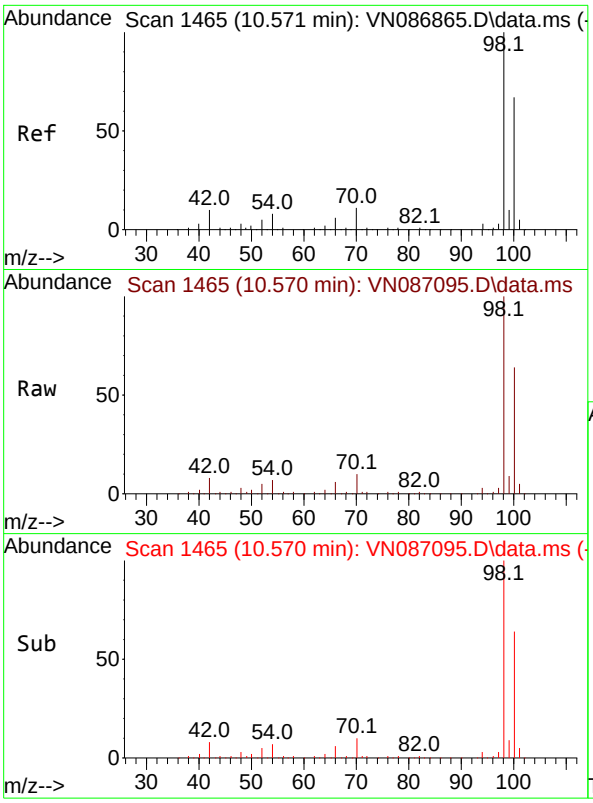


#35
Dibromofluoromethane
Concen: 52.806 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087095.D
Acq: 18 Jun 2025 18:39

Tgt Ion:113 Resp: 113292

Ion	Ratio	Lower	Upper
113	100		
111	103.2	84.2	126.2
192	17.6	14.2	21.4



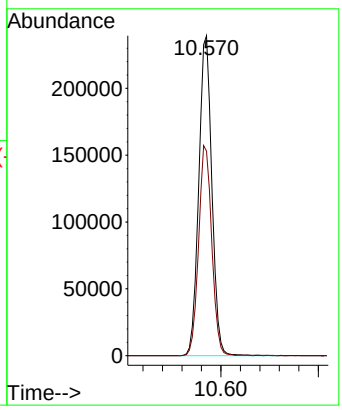


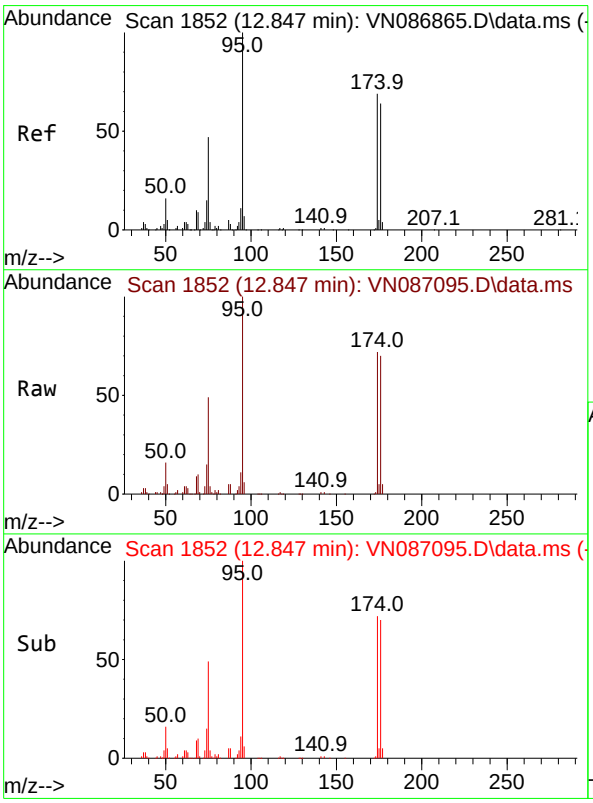
#50
Toluene-d8
Concen: 52.709 ug/l
RT: 10.570 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087095.D
Acq: 18 Jun 2025 18:39

Instrument :
MSVOA_N
ClientSampleId :
FB01-20250613

Tgt Ion: 98 Resp: 447665

Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.4	80.0

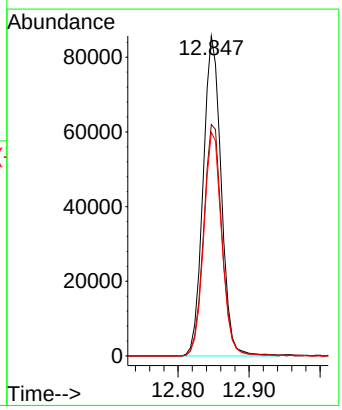


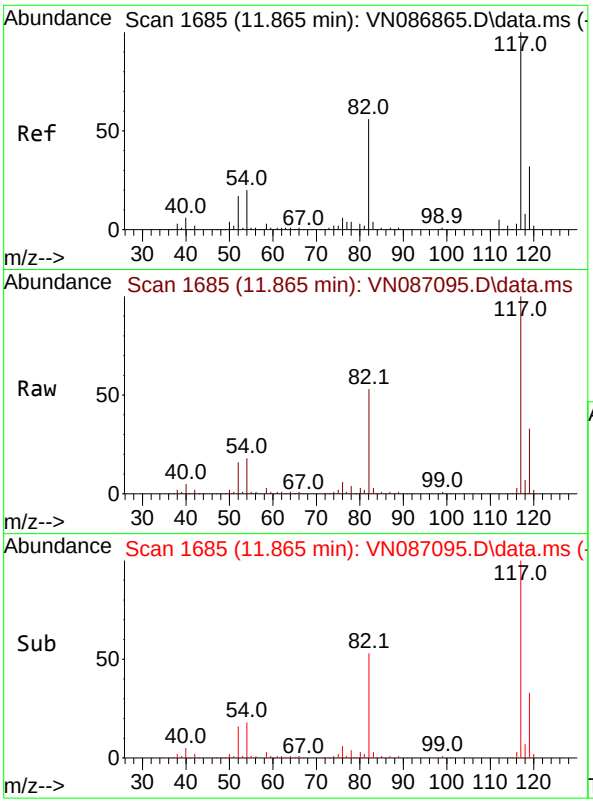


#62
4-Bromofluorobenzene
Concen: 47.988 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087095.D
Acq: 18 Jun 2025 18:39

Tgt Ion: 95 Resp: 151423

Ion	Ratio	Lower	Upper
95	100		
174	73.6	0.0	141.8
176	69.7	0.0	132.6



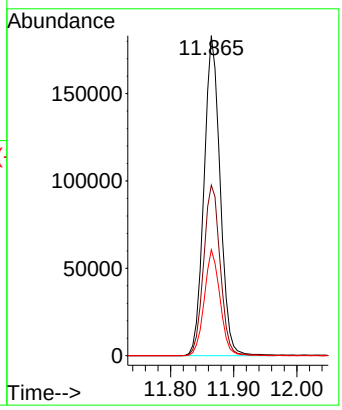


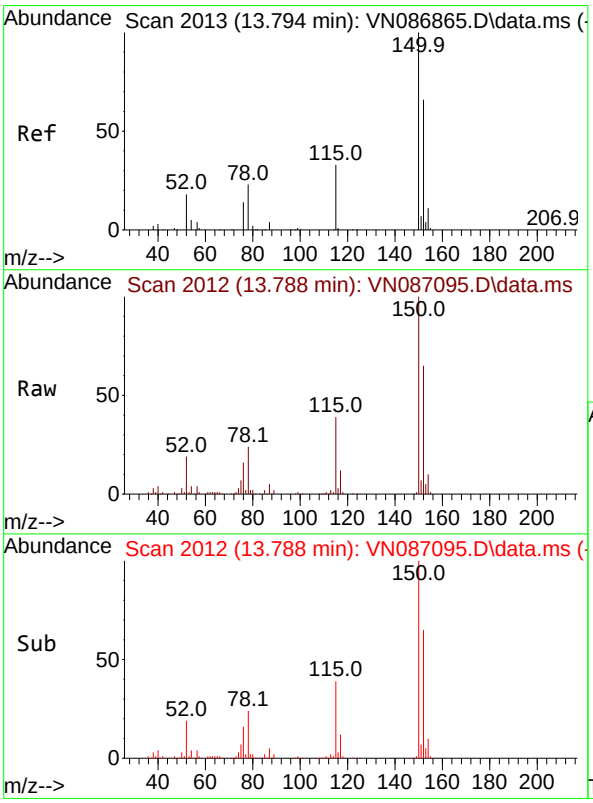
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087095.D
Acq: 18 Jun 2025 18:39

Instrument :
MSVOA_N
ClientSampleId :
FB01-20250613

Tgt Ion:117 Resp: 325288

Ion	Ratio	Lower	Upper
117	100		
82	53.3	44.6	67.0
119	33.1	25.5	38.3

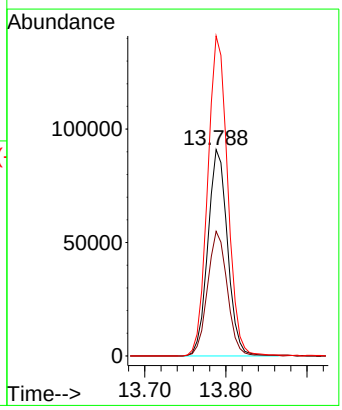




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087095.D
Acq: 18 Jun 2025 18:39

Tgt Ion:152 Resp: 153113

Ion	Ratio	Lower	Upper
152	100		
115	60.7	30.1	90.5
150	157.6	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT162S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087067.D	1		06/17/25 17:56	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	6.30		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT162S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087067.D	1		06/17/25 17:56	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.66	J	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	52.5		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	290000	8.23				
540-36-3	1,4-Difluorobenzene	584000	9.106				
3114-55-4	Chlorobenzene-d5	526000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	249000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT162S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087067.D	1		06/17/25 17:56	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061725\
Data File : VN087067.D
Acq On : 17 Jun 2025 17:56
Operator : JC\MD
Sample : Q2329-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT162S1-20250613

Quant Time: Jun 18 01:52:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

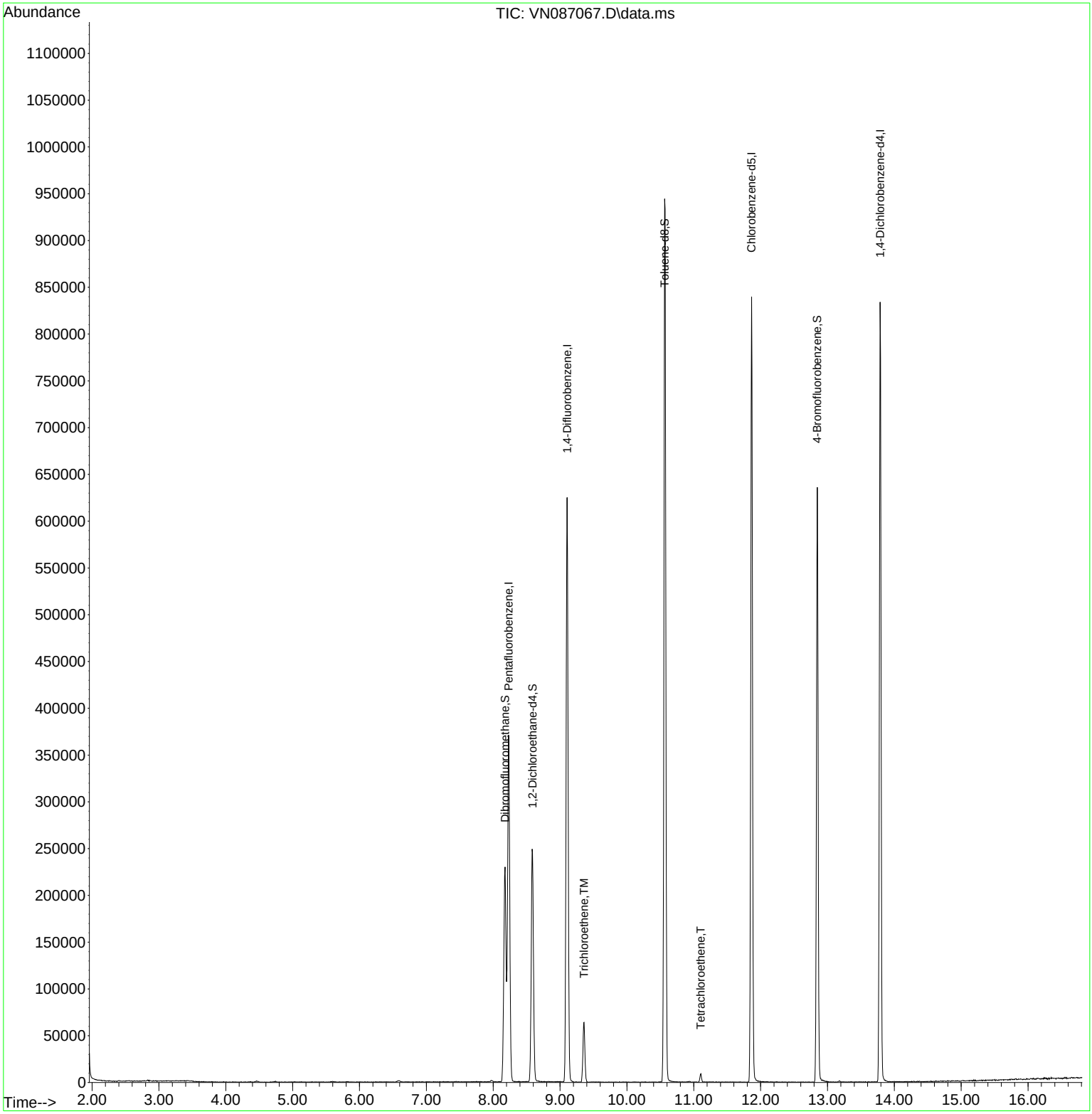
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	290343	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	583906	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	526439	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	248696	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	206924	53.230	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.460%			
35) Dibromofluoromethane	8.177	113	176110	50.893	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.780%			
50) Toluene-d8	10.565	98	719327	52.511	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.020%			
62) 4-Bromofluorobenzene	12.847	95	255546	50.211	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.420%			
Target Compounds						Qvalue
44) Trichloroethene	9.359	130	25133	6.286	ug/l	97
64) Tetrachloroethene	11.106	164	2198	0.660	ug/l	86

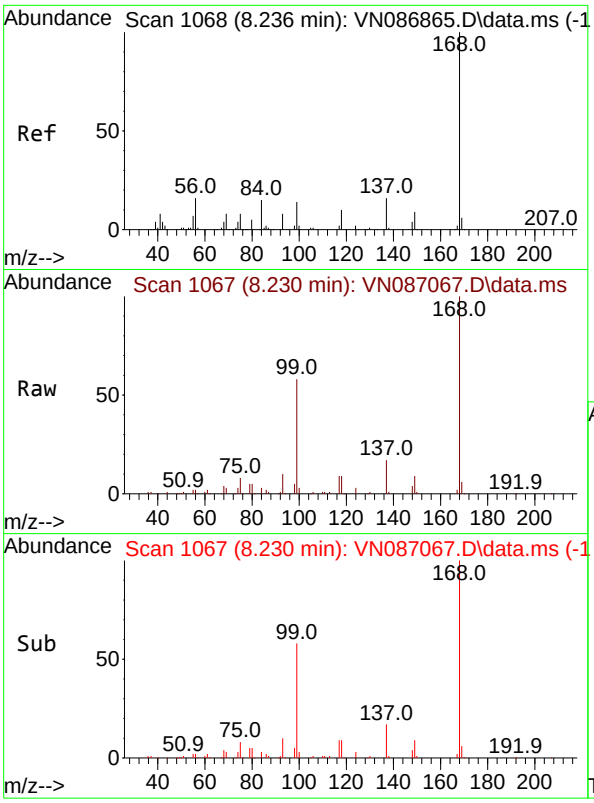
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087067.D
Acq On : 17 Jun 2025 17:56
Operator : JC\MD
Sample : Q2329-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT162S1-20250613

Quant Time: Jun 18 01:52:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



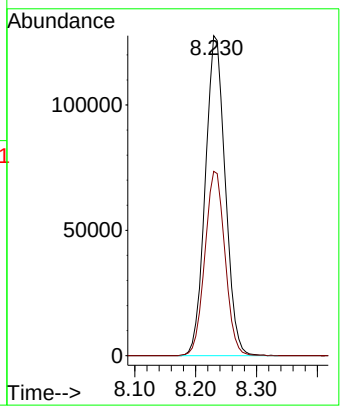


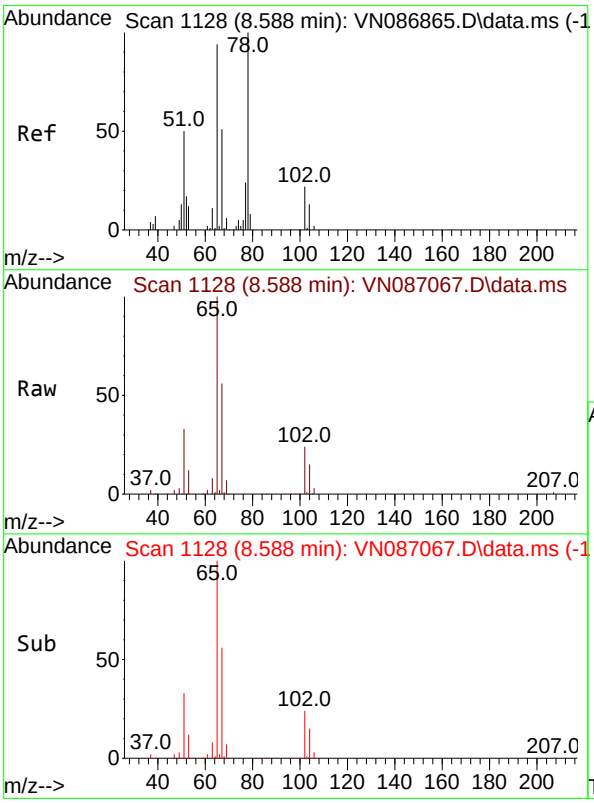
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087067.D
Acq: 17 Jun 2025 17:56

Instrument :
MSVOA_N
ClientSampleId :
TT162S1-20250613

Tgt Ion:168 Resp: 290343

Ion	Ratio	Lower	Upper
168	100		
99	57.6	49.1	73.7

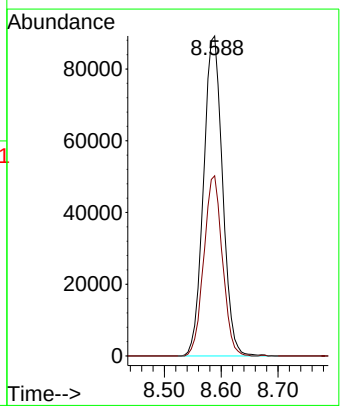


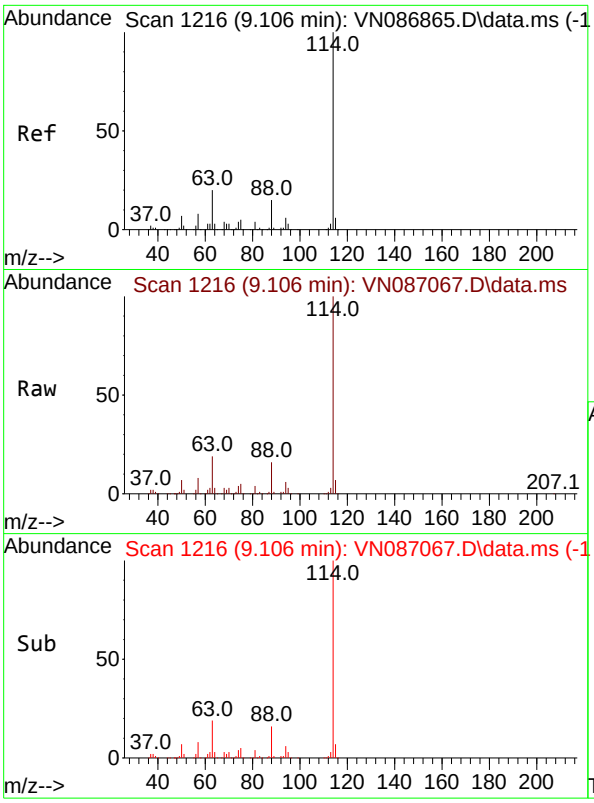


#33
1,2-Dichloroethane-d4
Concen: 53.230 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087067.D
Acq: 17 Jun 2025 17:56

Tgt Ion: 65 Resp: 206924

Ion	Ratio	Lower	Upper
65	100		
67	55.0	0.0	105.6



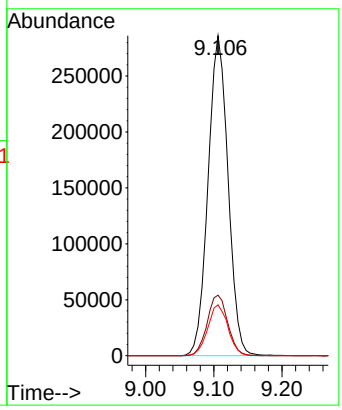


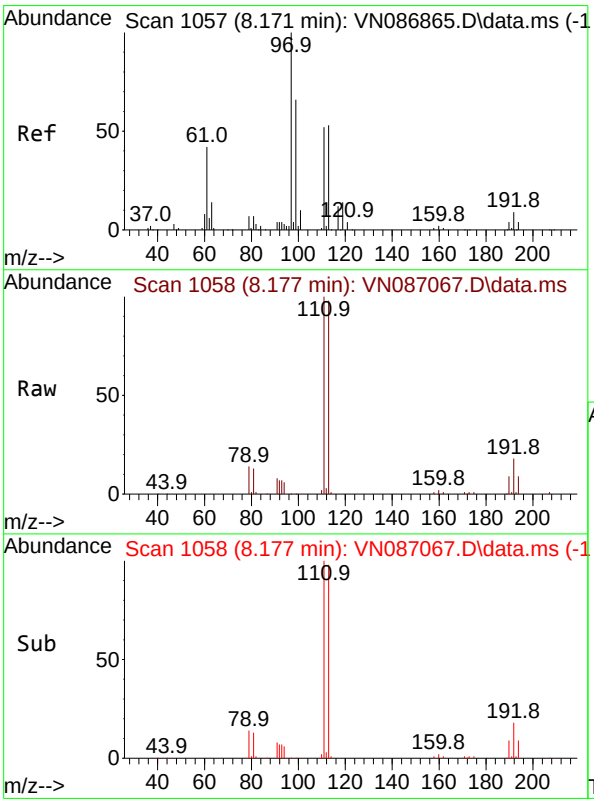
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087067.D
Acq: 17 Jun 2025 17:56

Instrument :
MSVOA_N
ClientSampleId :
TT162S1-20250613

Tgt Ion:114 Resp: 583906

Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	39.6
88	15.9	0.0	30.2

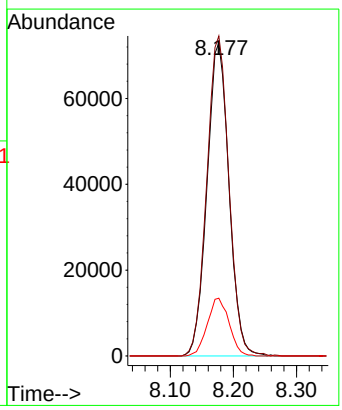


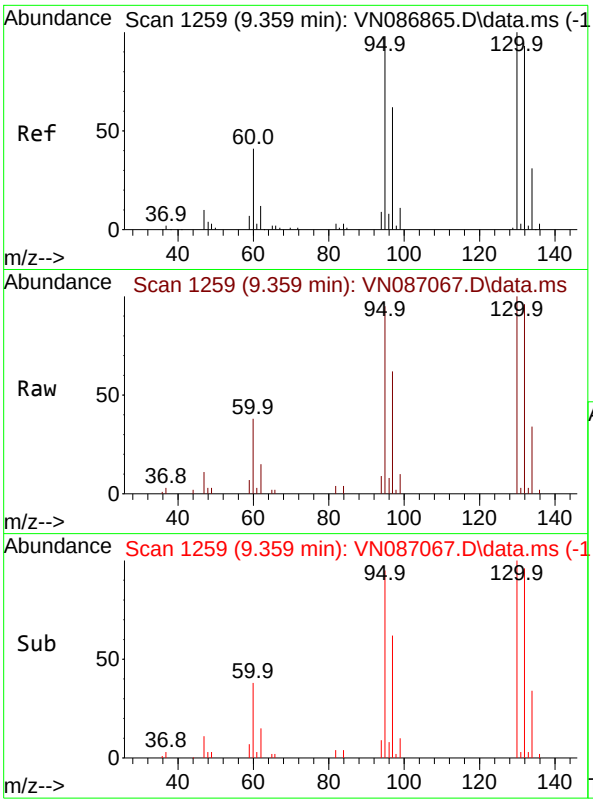


#35
Dibromofluoromethane
Concen: 50.893 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087067.D
Acq: 17 Jun 2025 17:56

Tgt Ion:113 Resp: 176110

Ion	Ratio	Lower	Upper
113	100		
111	103.1	84.2	126.2
192	18.4	14.2	21.4



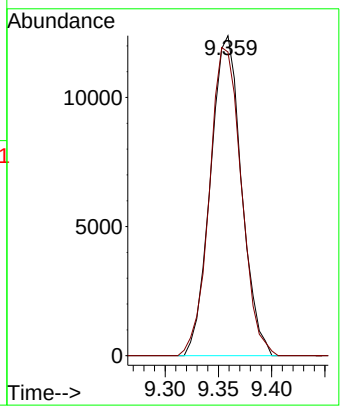


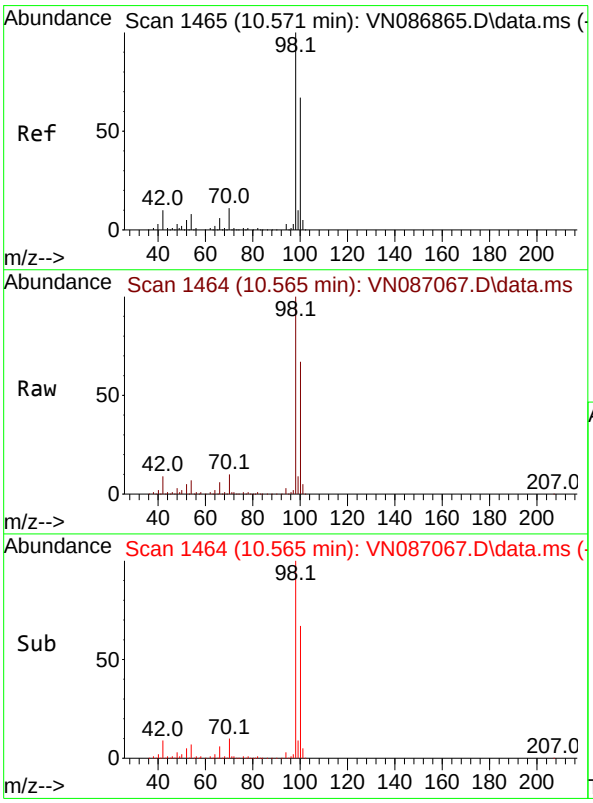
#44
Trichloroethene
Concen: 6.286 ug/l
RT: 9.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087067.D
Acq: 17 Jun 2025 17:56

Instrument :
MSVOA_N
ClientSampleId :
TT162S1-20250613

Tgt Ion:130 Resp: 25133

Ion	Ratio	Lower	Upper
130	100		
95	94.9	0.0	196.2

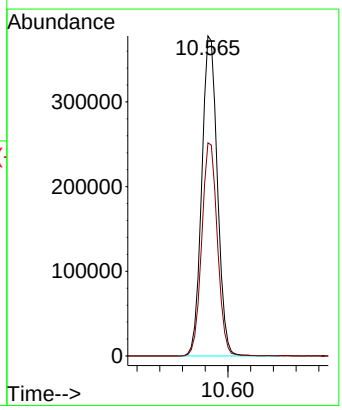


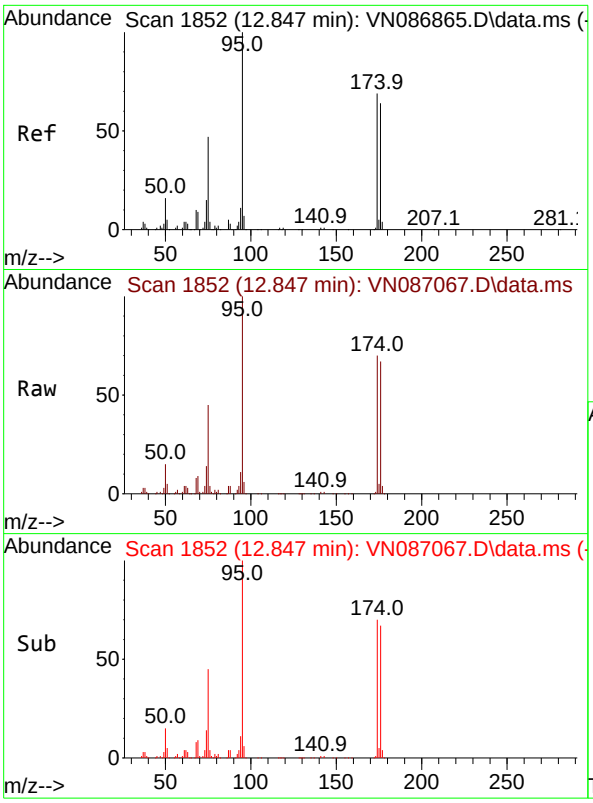


#50
Toluene-d8
Concen: 52.511 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087067.D
Acq: 17 Jun 2025 17:56

Tgt Ion: 98 Resp: 719327

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.4	80.0



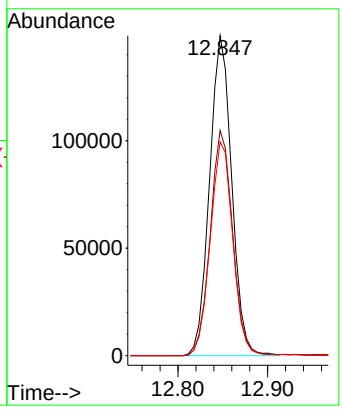


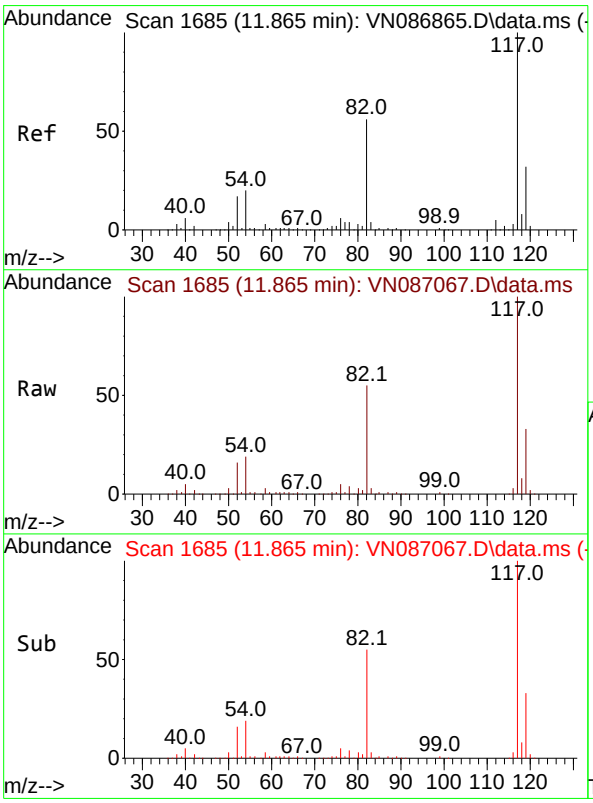
#62
4-Bromofluorobenzene
Concen: 50.211 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087067.D
Acq: 17 Jun 2025 17:56

Instrument :
MSVOA_N
ClientSampleId :
TT162S1-20250613

Tgt Ion: 95 Resp: 255546

Ion	Ratio	Lower	Upper
95	100		
174	70.9	0.0	141.8
176	68.3	0.0	132.6

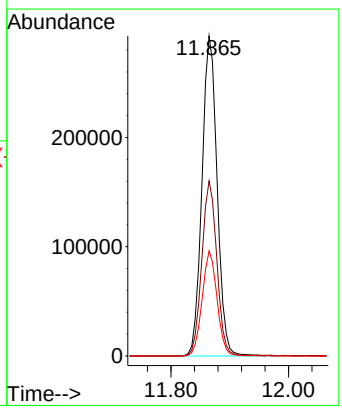


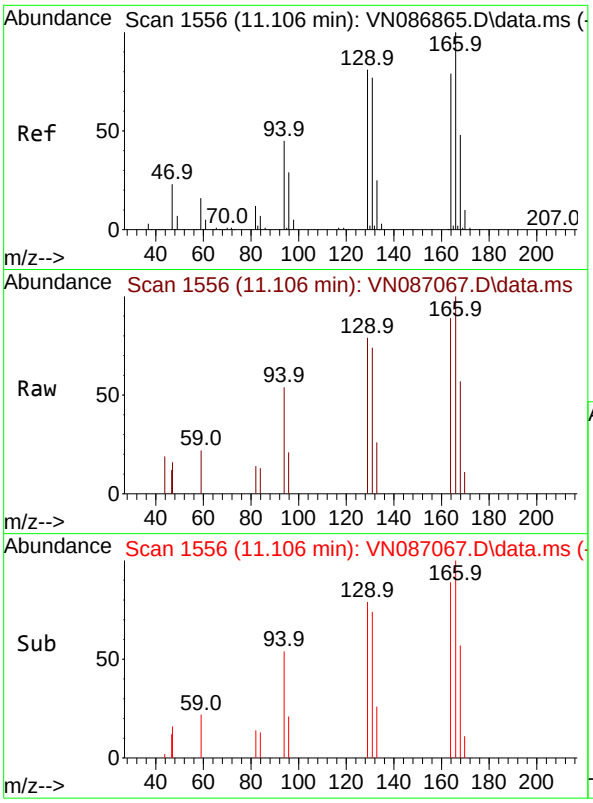


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087067.D
Acq: 17 Jun 2025 17:56

Tgt Ion:117 Resp: 526439

Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.6	67.0
119	32.8	25.5	38.3



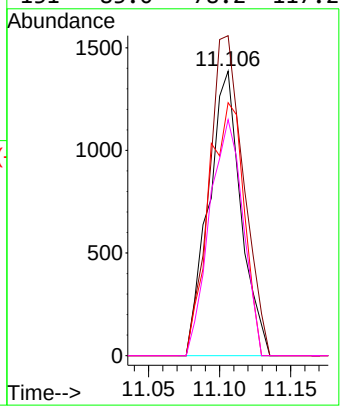


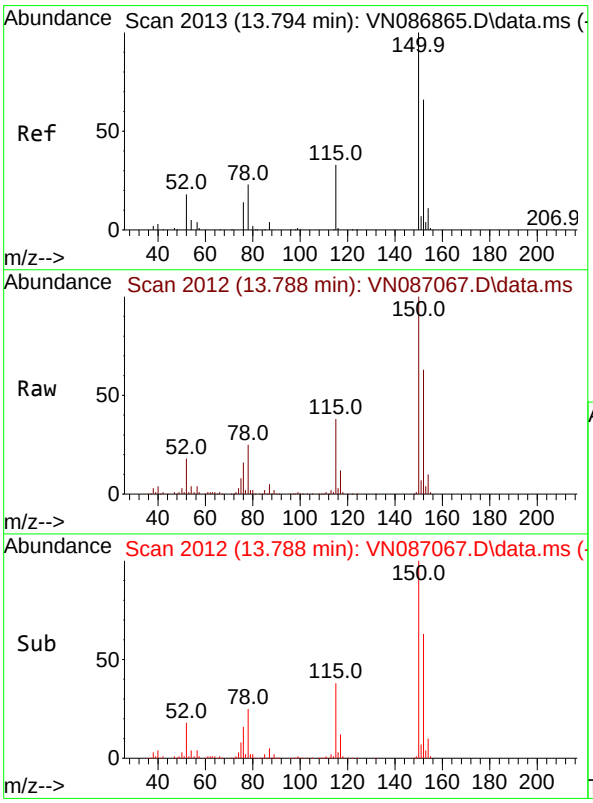
#64
Tetrachloroethene
Concen: 0.660 ug/l
RT: 11.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087067.D
Acq: 17 Jun 2025 17:56

Instrument :
MSVOA_N
ClientSampleId :
TT162S1-20250613

Tgt Ion:164 Resp: 2198

Ion	Ratio	Lower	Upper
164	100		
166	112.5	101.8	152.8
129	88.9	83.0	124.4
131	83.0	78.2	117.2

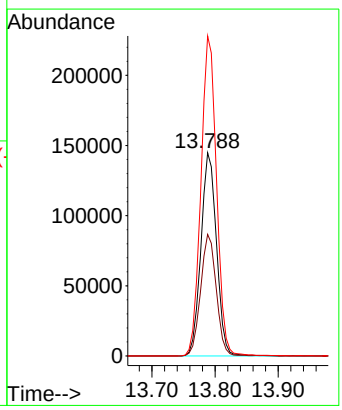




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087067.D
Acq: 17 Jun 2025 17:56

Tgt Ion:152 Resp: 248696

Ion	Ratio	Lower	Upper
152	100		
115	59.9	30.1	90.5
150	158.0	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	BPOW6-7-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087068.D	1		06/17/25 18:17	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	BPOW6-7-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087068.D	1		06/17/25 18:17	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.1		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	51.8		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	203000	8.229				
540-36-3	1,4-Difluorobenzene	406000	9.106				
3114-55-4	Chlorobenzene-d5	361000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	175000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	BPOW6-7-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087068.D	1		06/17/25 18:17	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061725\
Data File : VN087068.D
Acq On : 17 Jun 2025 18:17
Operator : JC\MD
Sample : Q2329-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-7-20250613

Quant Time: Jun 18 01:52:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

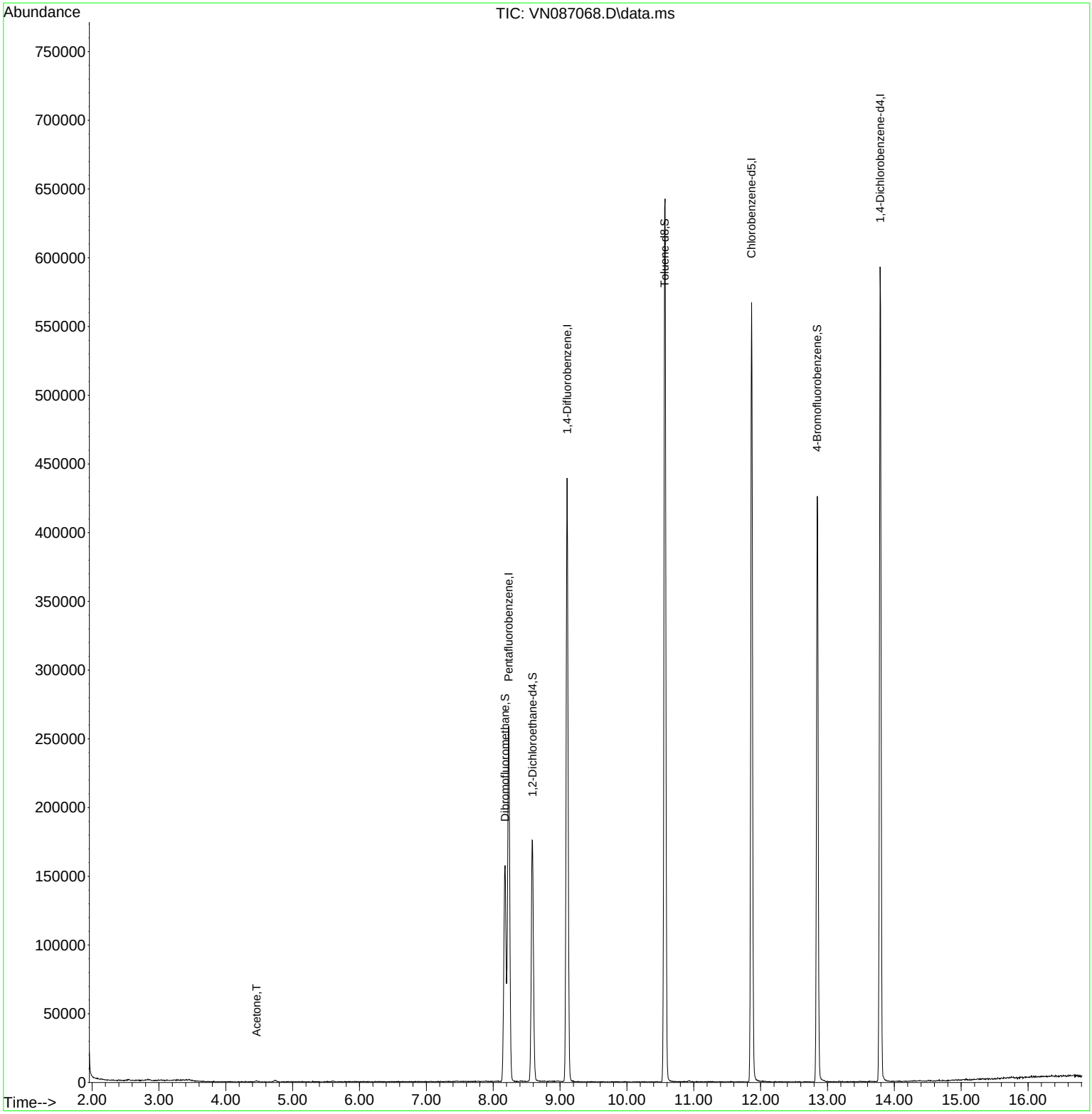
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	202684	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	406226	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	361194	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	175252	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	144194	53.135	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.280%			
35) Dibromofluoromethane	8.177	113	122201	50.761	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.520%			
50) Toluene-d8	10.565	98	493319	51.764	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.520%			
62) 4-Bromofluorobenzene	12.847	95	173572	49.021	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.040%			
Target Compounds						Qvalue
16) Acetone	4.459	43	1601	1.112	ug/l	98

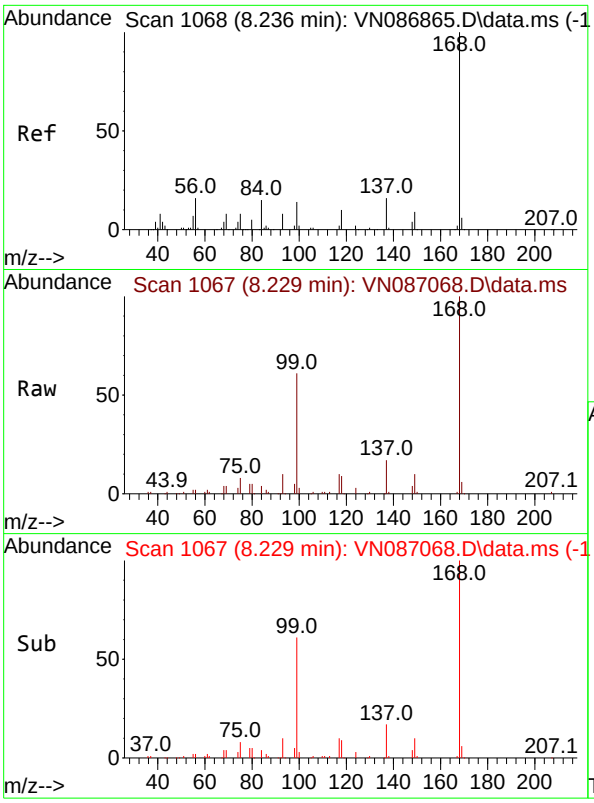
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087068.D
Acq On : 17 Jun 2025 18:17
Operator : JC\MD
Sample : Q2329-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-7-20250613

Quant Time: Jun 18 01:52:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



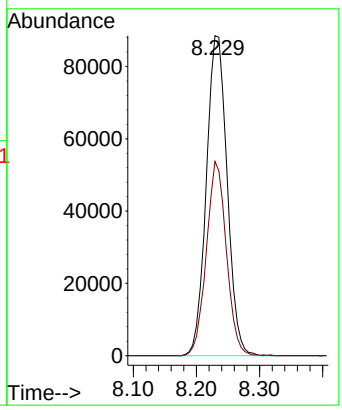


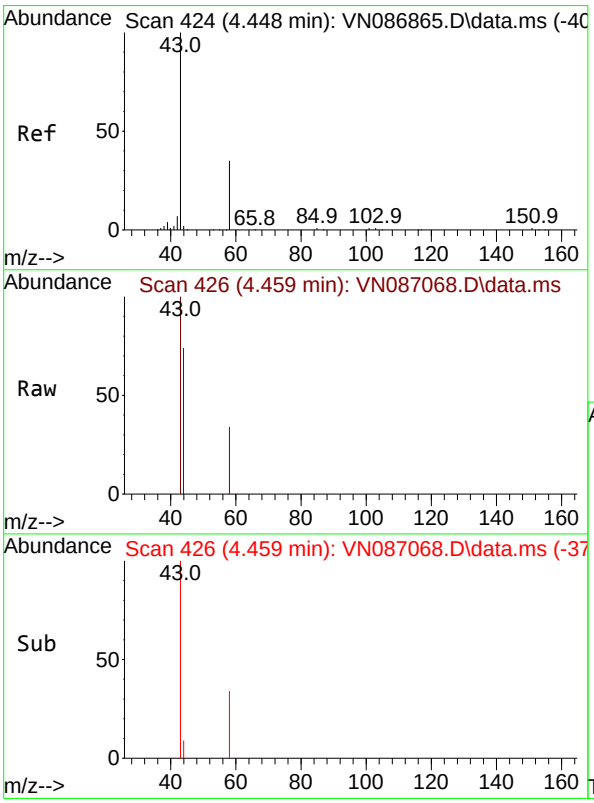
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN087068.D
Acq: 17 Jun 2025 18:17

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-7-20250613

Tgt Ion:168 Resp: 202684

Ion	Ratio	Lower	Upper
168	100		
99	60.7	49.1	73.7

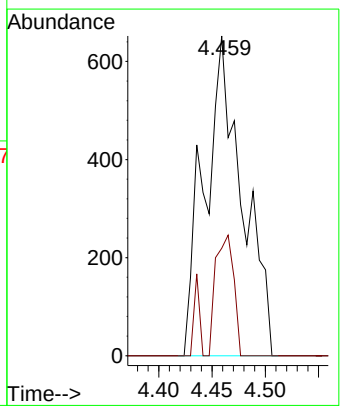


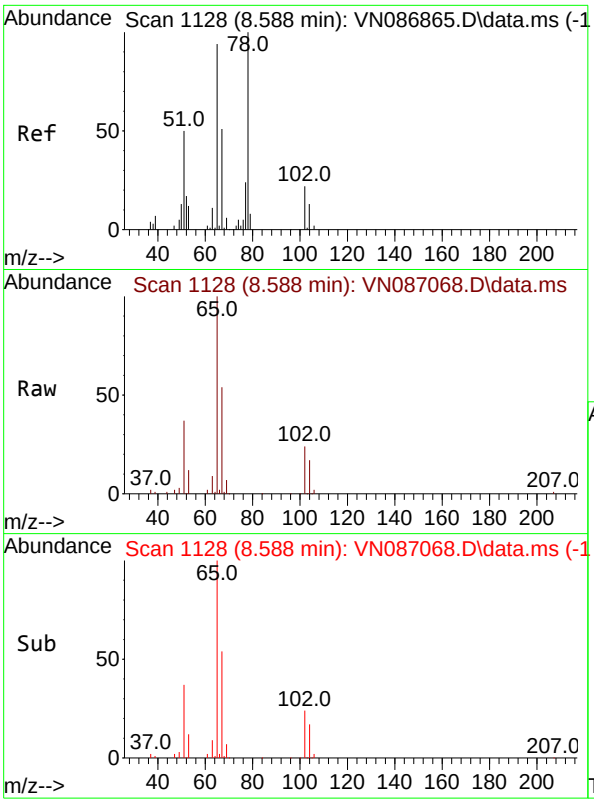


#16
Acetone
Concen: 1.112 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN087068.D
Acq: 17 Jun 2025 18:17

Tgt Ion: 43 Resp: 1601

Ion	Ratio	Lower	Upper
43	100		
58	33.6	28.0	42.0



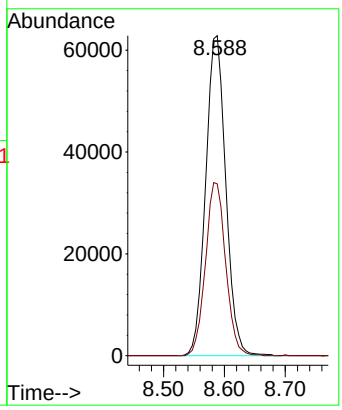


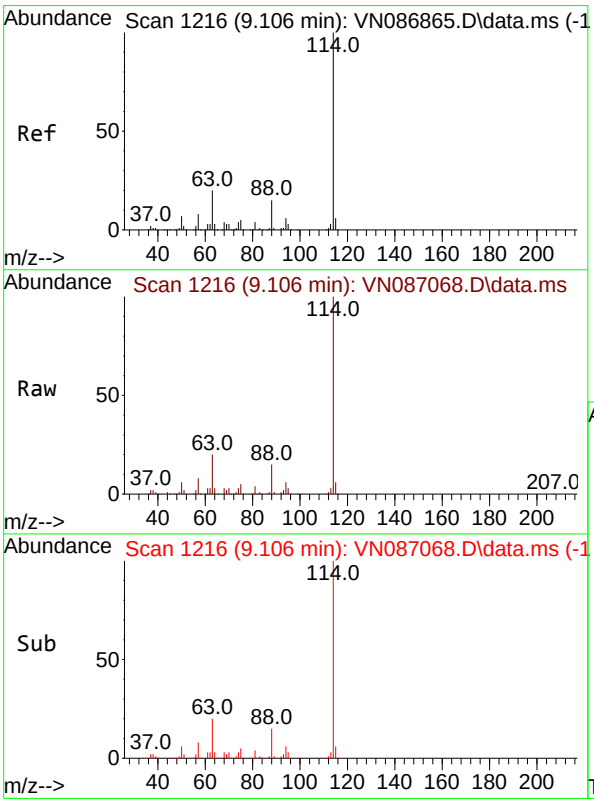
#33
1,2-Dichloroethane-d4
Concen: 53.135 ug/l
RT: 8.588 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087068.D
Acq: 17 Jun 2025 18:17

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-7-20250613

Tgt Ion: 65 Resp: 144194

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	105.6

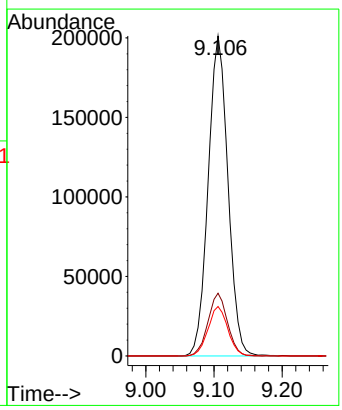


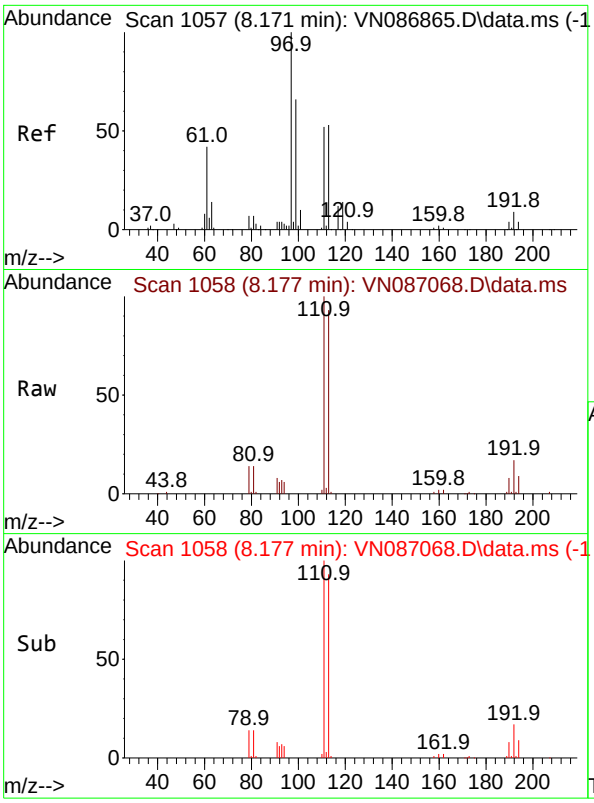


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087068.D
Acq: 17 Jun 2025 18:17

Tgt Ion:114 Resp: 406226

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.6
88	15.5	0.0	30.2



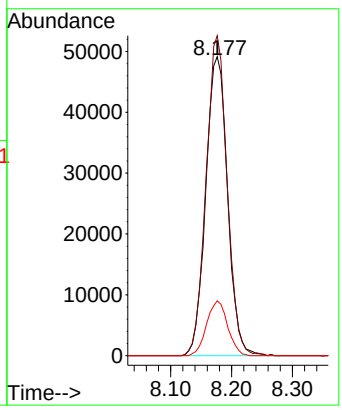


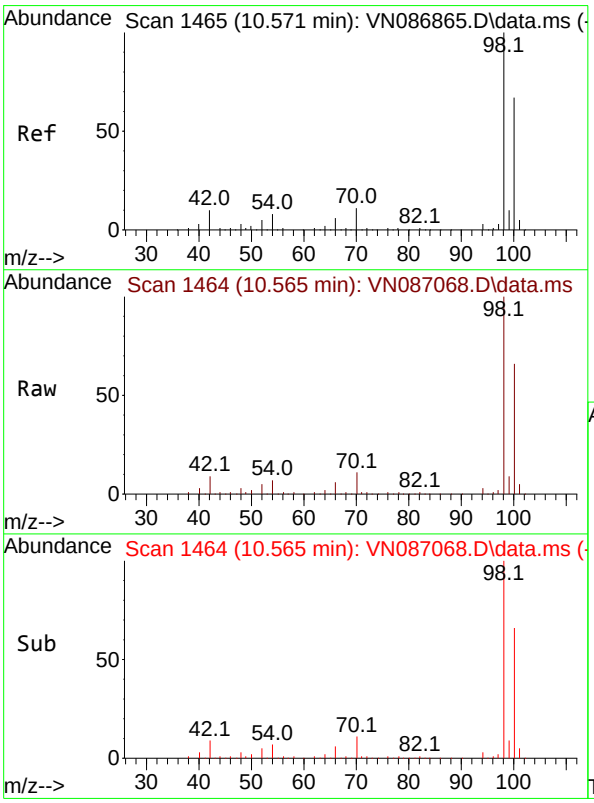
#35
Dibromofluoromethane
Concen: 50.761 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087068.D
Acq: 17 Jun 2025 18:17

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-7-20250613

Tgt Ion:113 Resp: 122201

Ion	Ratio	Lower	Upper
113	100		
111	103.4	84.2	126.2
192	17.6	14.2	21.4

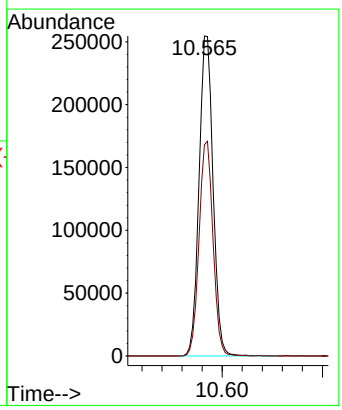


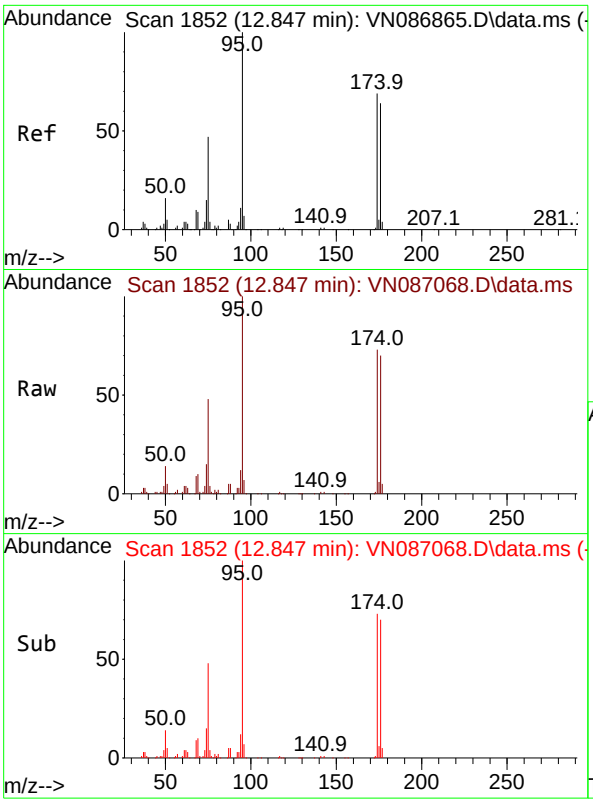


#50
Toluene-d8
Concen: 51.764 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087068.D
Acq: 17 Jun 2025 18:17

Tgt Ion: 98 Resp: 493319

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.4	80.0



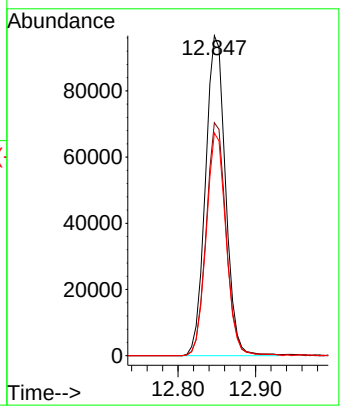


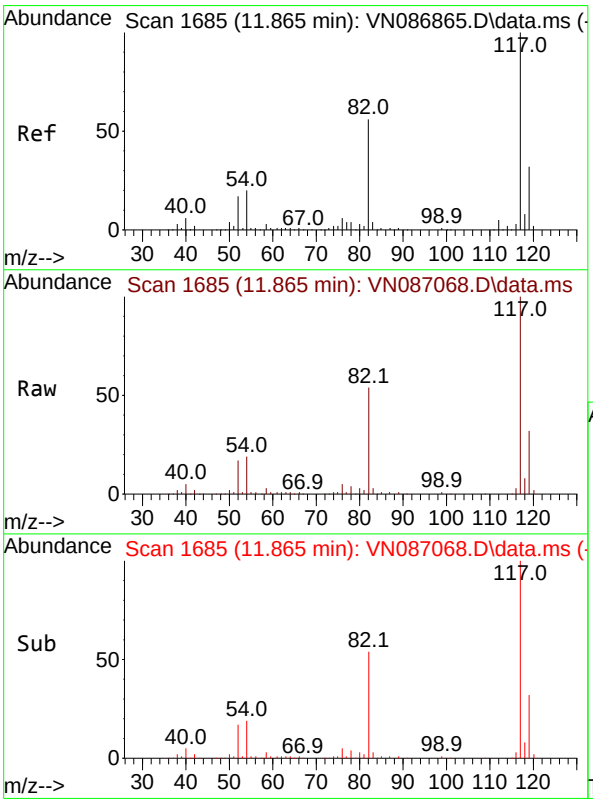
#62
4-Bromofluorobenzene
Concen: 49.021 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087068.D
Acq: 17 Jun 2025 18:17

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-7-20250613

Tgt Ion: 95 Resp: 173572

Ion	Ratio	Lower	Upper
95	100		
174	72.4	0.0	141.8
176	68.8	0.0	132.6

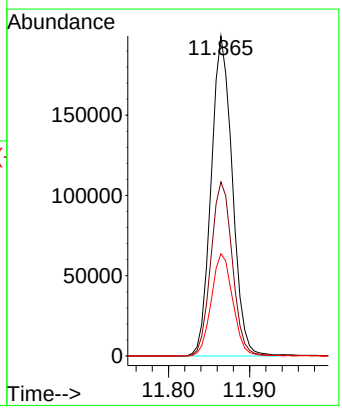


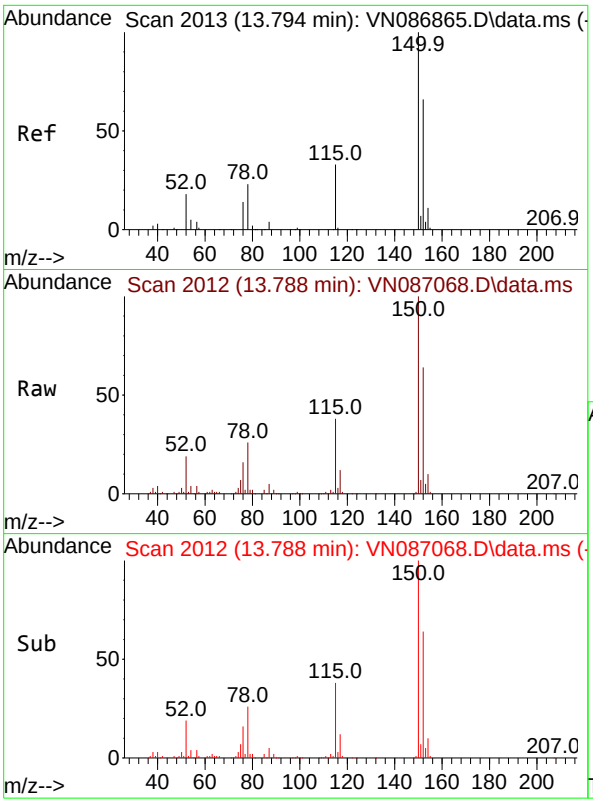


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087068.D
Acq: 17 Jun 2025 18:17

Tgt Ion:117 Resp: 361194

Ion	Ratio	Lower	Upper
117	100		
82	54.4	44.6	67.0
119	32.0	25.5	38.3



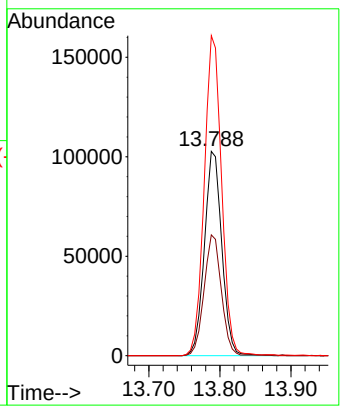


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087068.D
Acq: 17 Jun 2025 18:17

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-7-20250613

Tgt Ion:152 Resp: 175252

Ion	Ratio	Lower	Upper
152	100		
115	58.8	30.1	90.5
150	156.5	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	BPOW6-8-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087086.D	1		06/18/25 15:24	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	BPOW6-8-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087086.D	1		06/18/25 15:24	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.0		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	52.4		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	193000	8.236				
540-36-3	1,4-Difluorobenzene	387000	9.106				
3114-55-4	Chlorobenzene-d5	351000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	167000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	BPOW6-8-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-07	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087086.D	1		06/18/25 15:24	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061825\
Data File : VN087086.D
Acq On : 18 Jun 2025 15:24
Operator : JC\MD
Sample : Q2329-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-8-20250613

Quant Time: Jun 19 01:30:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.236	168	192609	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	387116	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	350512	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	166828	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	141923	55.034	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.060%			
35) Dibromofluoromethane	8.177	113	121049	52.764	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.520%			
50) Toluene-d8	10.571	98	475637	52.372	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.740%			
62) 4-Bromofluorobenzene	12.847	95	170111	50.415	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.840%			

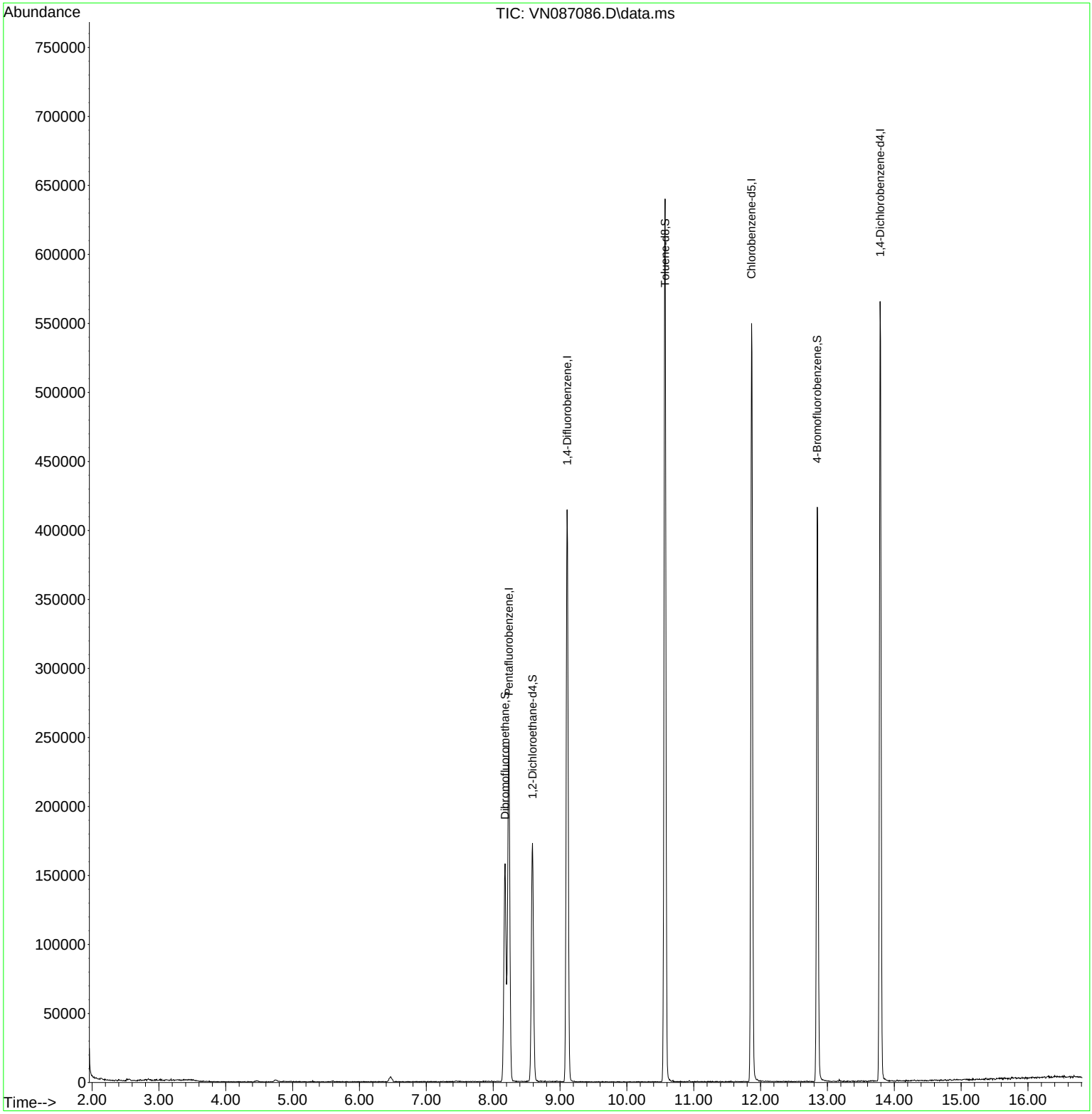
Target Compounds Qvalue

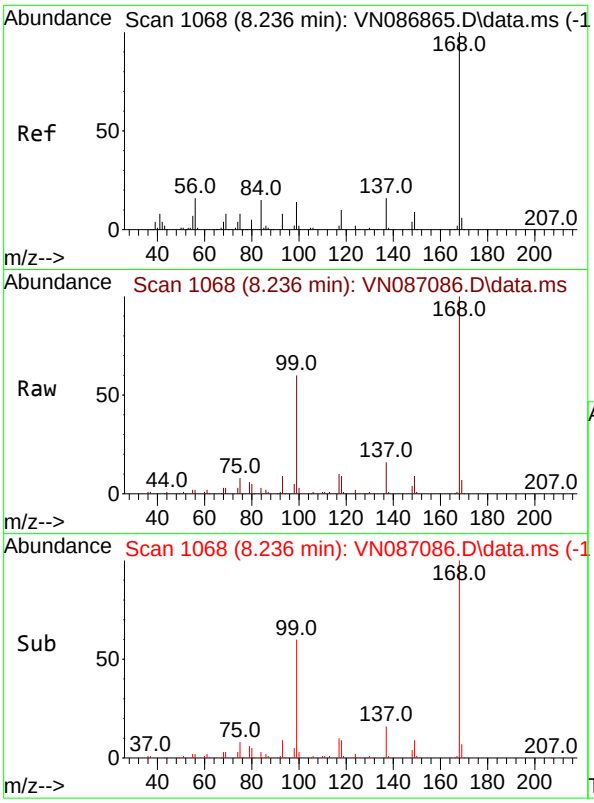
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087086.D
Acq On : 18 Jun 2025 15:24
Operator : JC\MD
Sample : Q2329-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-8-20250613

Quant Time: Jun 19 01:30:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



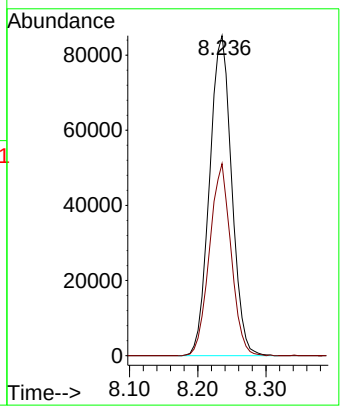


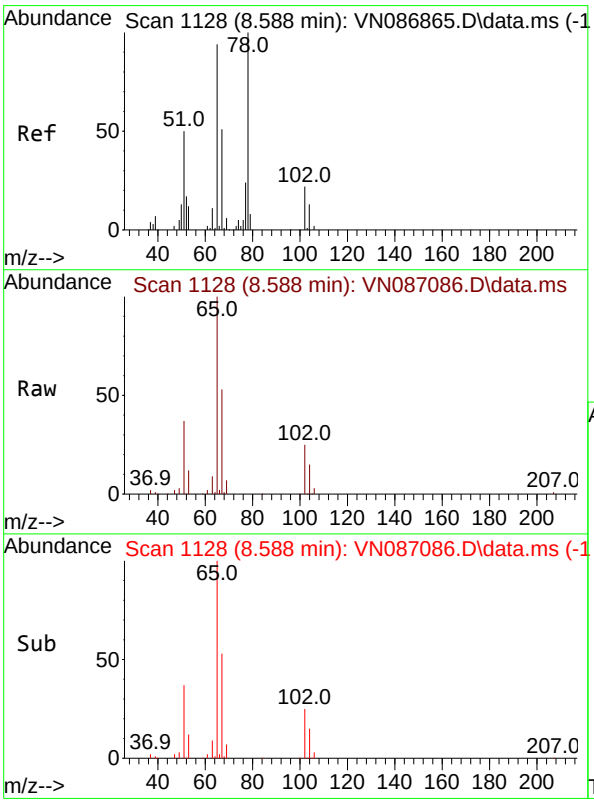
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087086.D
Acq: 18 Jun 2025 15:24

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-8-20250613

Tgt Ion:168 Resp: 192609

Ion	Ratio	Lower	Upper
168	100		
99	60.0	49.1	73.7

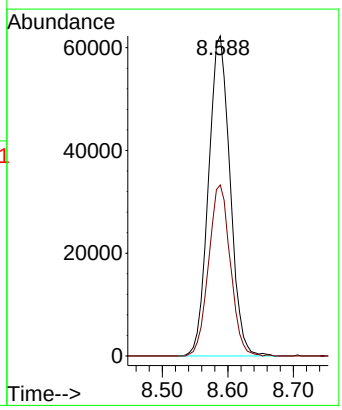


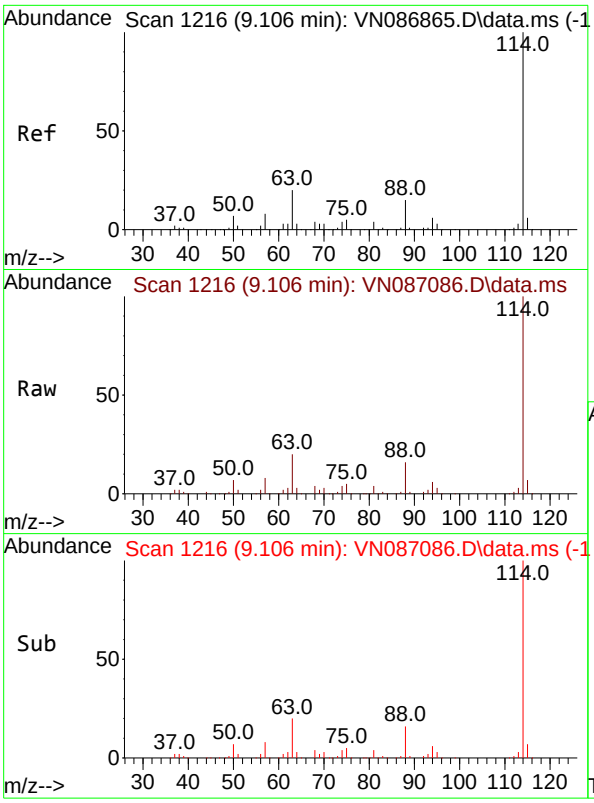


#33
1,2-Dichloroethane-d4
Concen: 55.034 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087086.D
Acq: 18 Jun 2025 15:24

Tgt Ion: 65 Resp: 141923

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	105.6



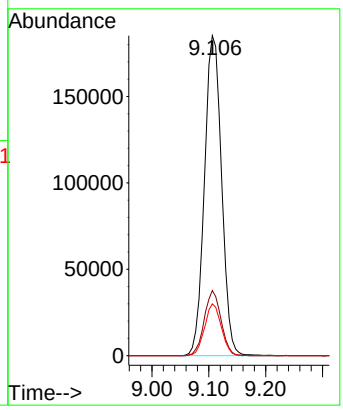


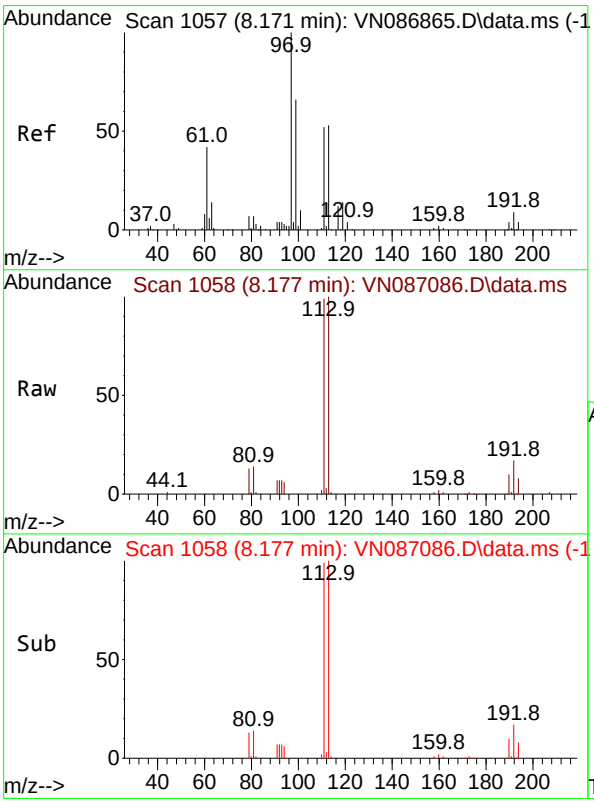
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087086.D
Acq: 18 Jun 2025 15:24

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-8-20250613

Tgt Ion:114 Resp: 387116

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	39.6
88	16.2	0.0	30.2

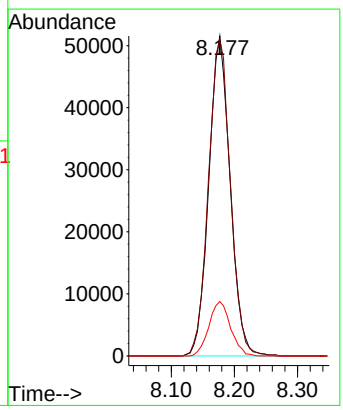


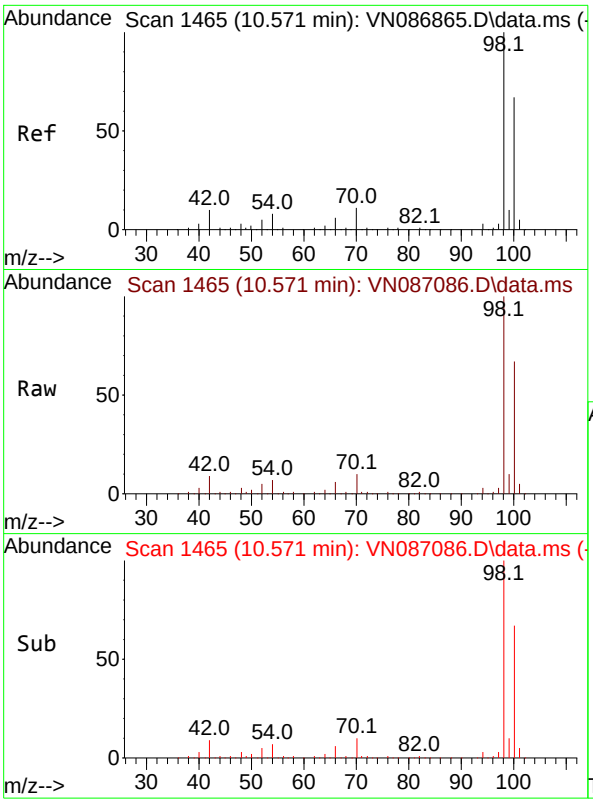


#35
Dibromofluoromethane
Concen: 52.764 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087086.D
Acq: 18 Jun 2025 15:24

Tgt Ion:113 Resp: 121049

Ion	Ratio	Lower	Upper
113	100		
111	102.0	84.2	126.2
192	17.2	14.2	21.4



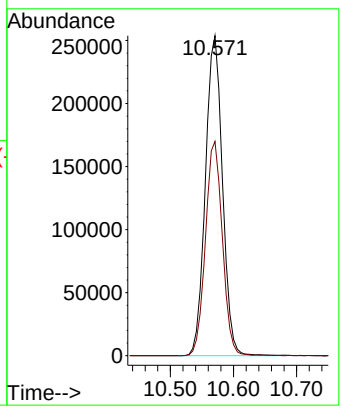


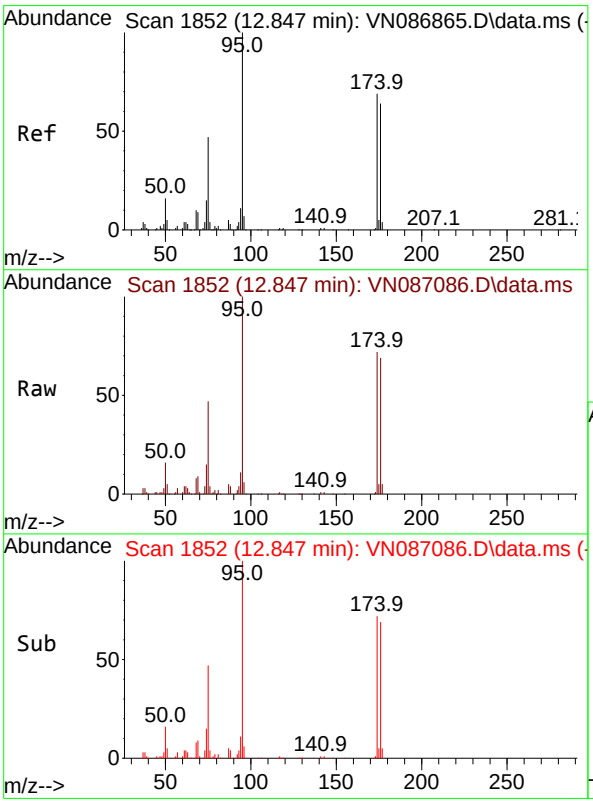
#50
Toluene-d8
Concen: 52.372 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087086.D
Acq: 18 Jun 2025 15:24

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-8-20250613

Tgt Ion: 98 Resp: 475637

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.4	80.0

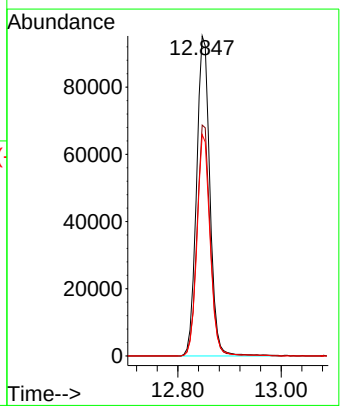


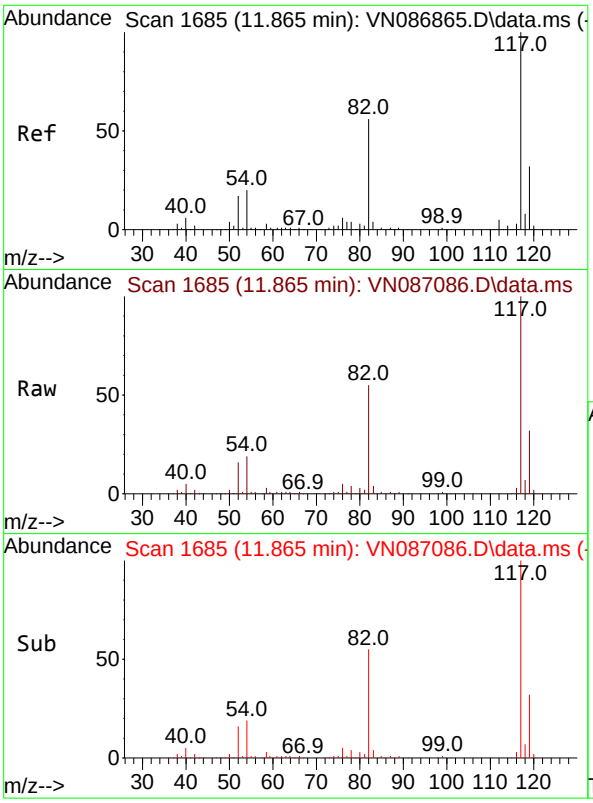


#62
4-Bromofluorobenzene
Concen: 50.415 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087086.D
Acq: 18 Jun 2025 15:24

Tgt Ion: 95 Resp: 170111

Ion	Ratio	Lower	Upper
95	100		
174	71.3	0.0	141.8
176	67.9	0.0	132.6



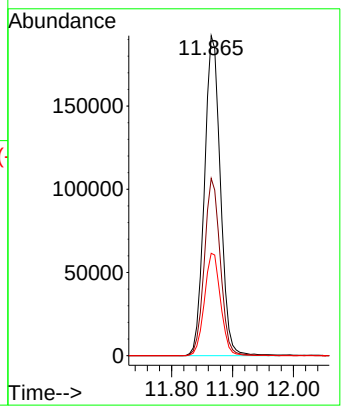


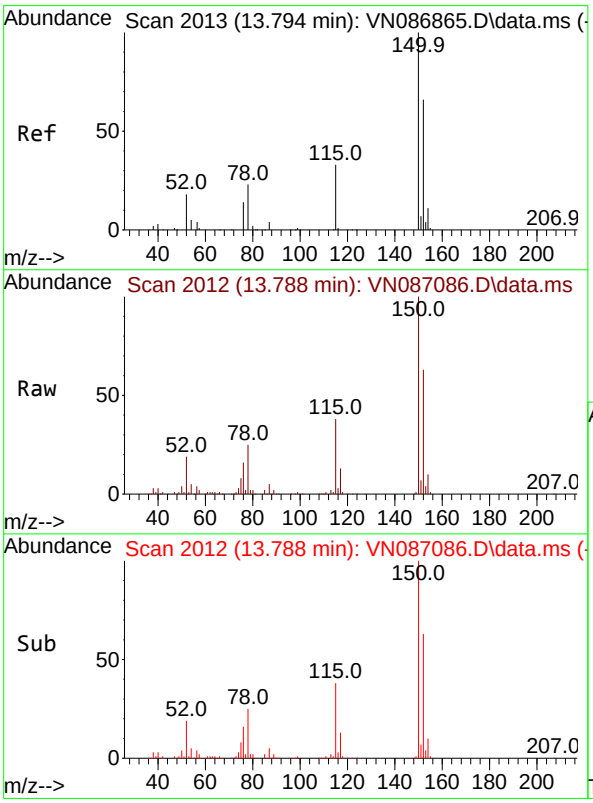
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087086.D
Acq: 18 Jun 2025 15:24

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-8-20250613

Tgt Ion:117 Resp: 350512

Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.6	67.0
119	32.0	25.5	38.3

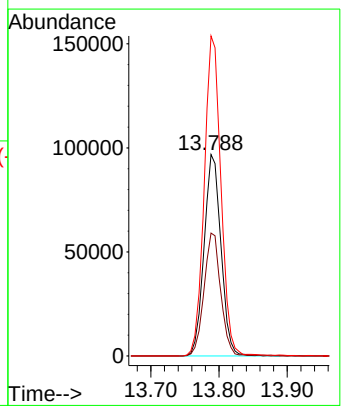




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087086.D
Acq: 18 Jun 2025 15:24

Tgt Ion:152 Resp: 166828

Ion	Ratio	Lower	Upper
152	100		
115	60.2	30.1	90.5
150	157.0	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	BPOW6-11-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087087.D	1		06/18/25 15:46	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	BPOW6-11-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087087.D	1		06/18/25 15:46	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.3		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	52.6		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	169000	8.236				
540-36-3	1,4-Difluorobenzene	344000	9.106				
3114-55-4	Chlorobenzene-d5	309000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	144000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	BPOW6-11-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-08	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087087.D	1		06/18/25 15:46	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061825\
Data File : VN087087.D
Acq On : 18 Jun 2025 15:46
Operator : JC\MD
Sample : Q2329-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-11-20250613

Quant Time: Jun 19 01:30:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

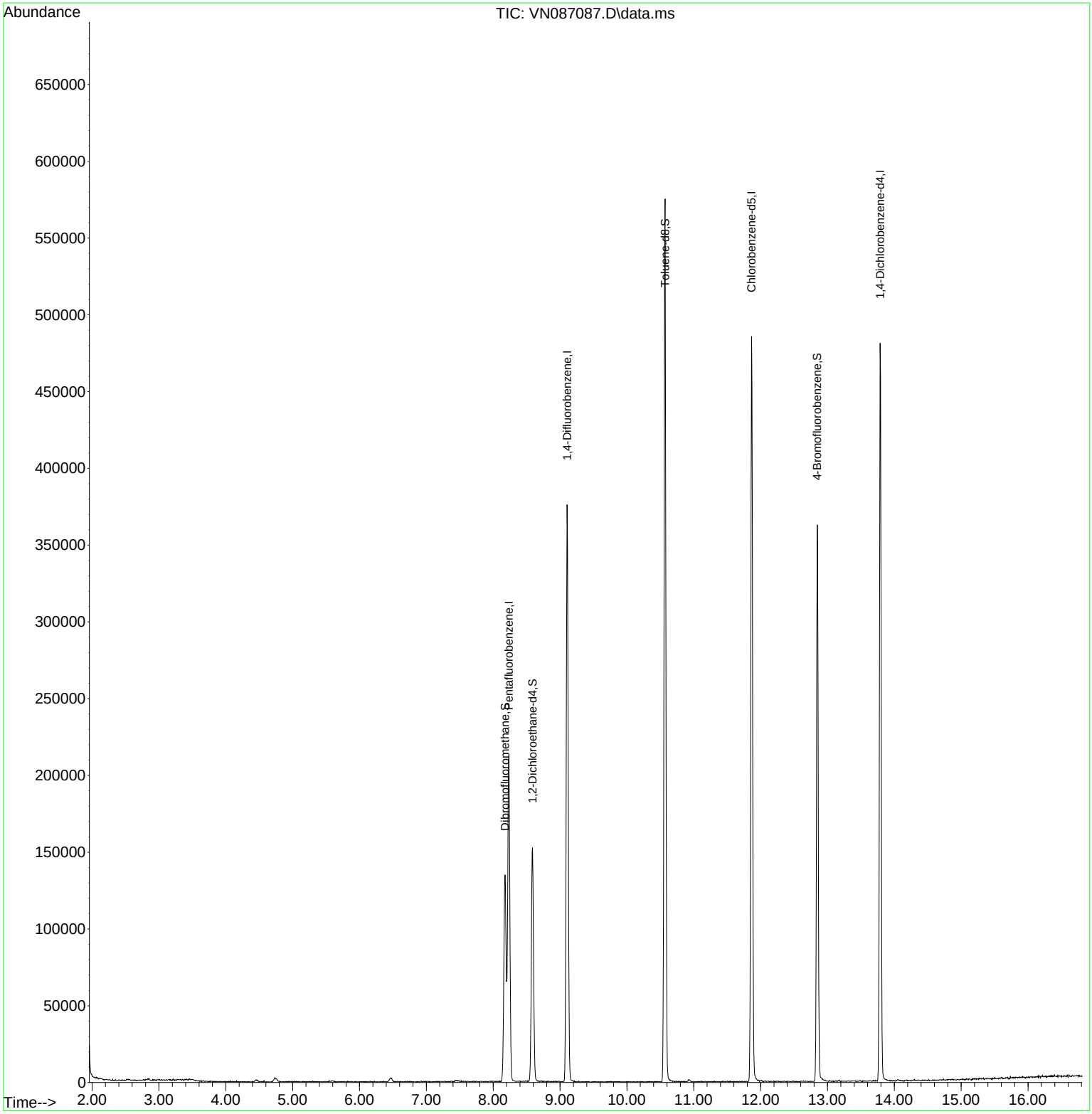
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.236	168	169193	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	343634	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	309468	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143673	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	125243	55.287	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.580%			
35) Dibromofluoromethane	8.177	113	105724	51.916	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.840%			
50) Toluene-d8	10.571	98	424060	52.601	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.200%			
62) 4-Bromofluorobenzene	12.847	95	146651	48.962	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.920%			
Target Compounds						Qvalue

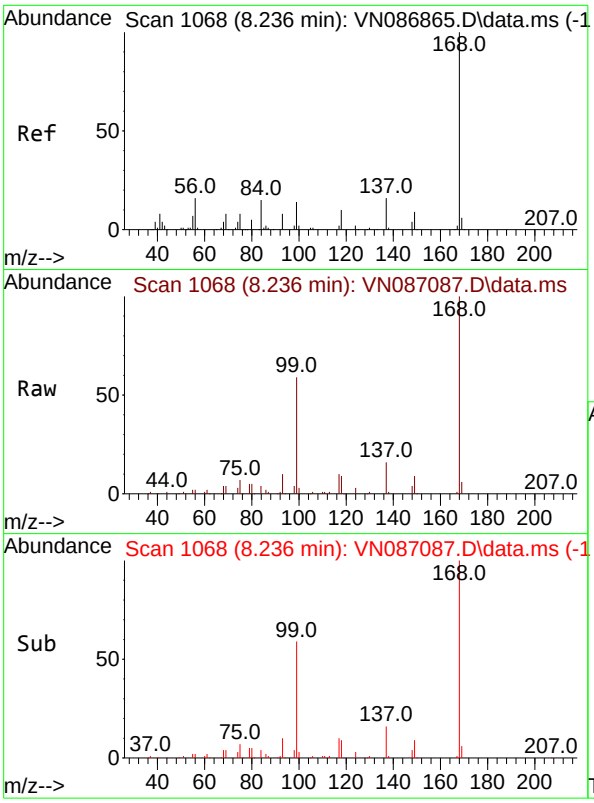
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087087.D
Acq On : 18 Jun 2025 15:46
Operator : JC\MD
Sample : Q2329-08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-11-20250613

Quant Time: Jun 19 01:30:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



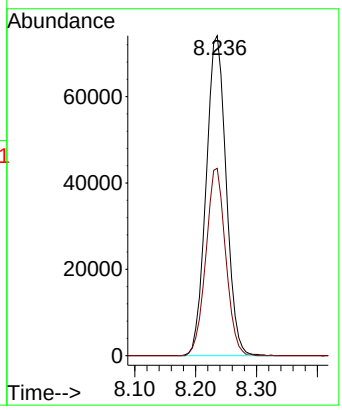


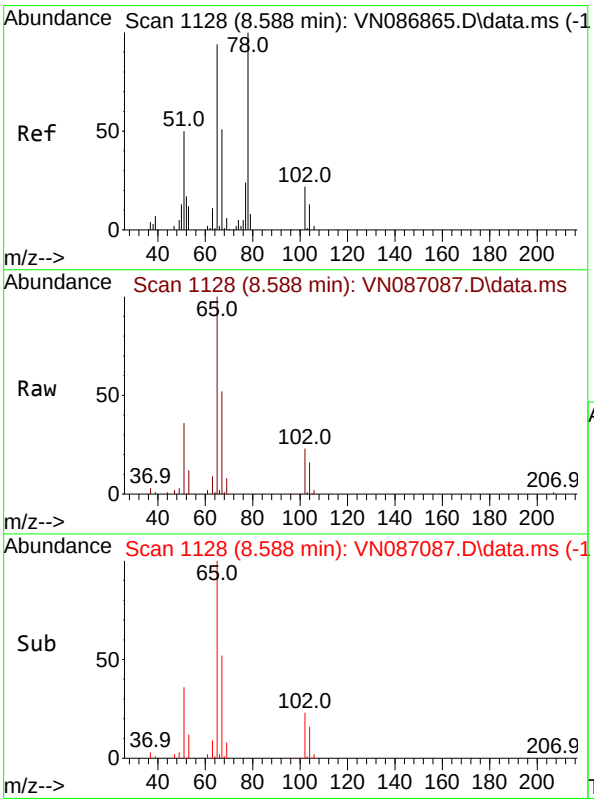
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087087.D
Acq: 18 Jun 2025 15:46

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-11-20250613

Tgt Ion:168 Resp: 169193

Ion	Ratio	Lower	Upper
168	100		
99	58.5	49.1	73.7

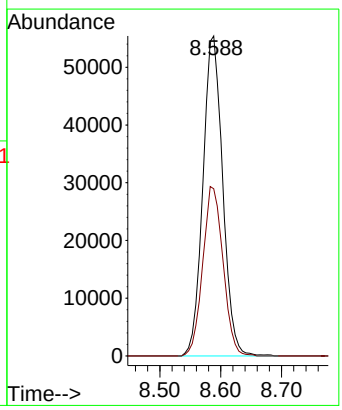


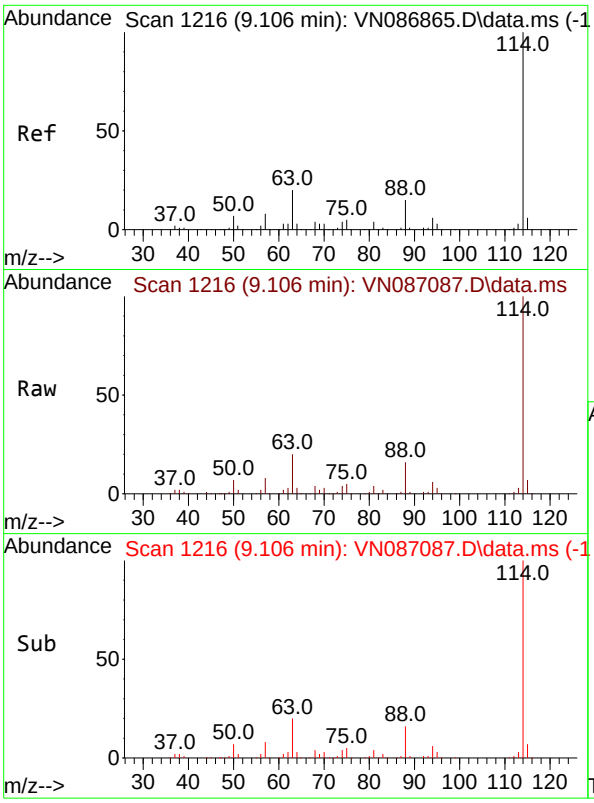


#33
1,2-Dichloroethane-d4
Concen: 55.287 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087087.D
Acq: 18 Jun 2025 15:46

Tgt Ion: 65 Resp: 125243

Ion	Ratio	Lower	Upper
65	100		
67	54.2	0.0	105.6



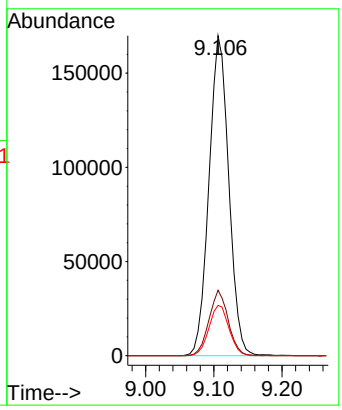


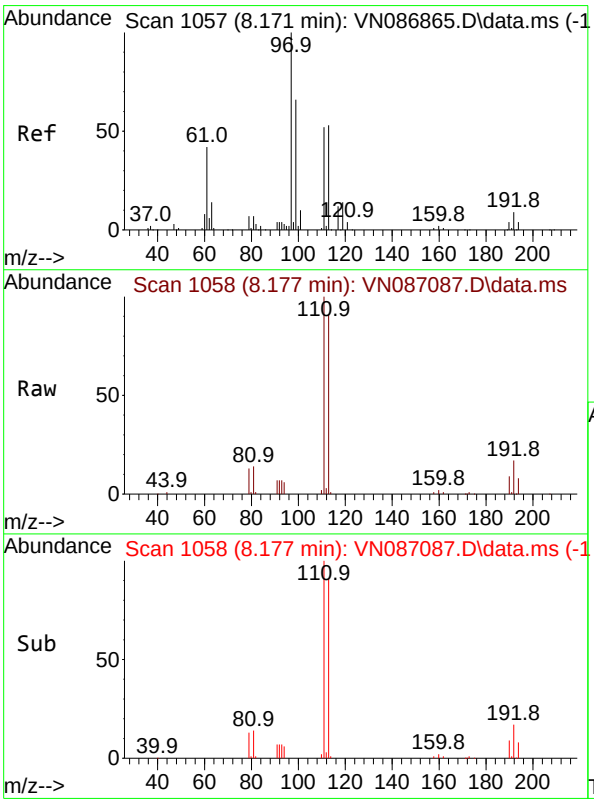
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087087.D
Acq: 18 Jun 2025 15:46

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-11-20250613

Tgt Ion:114 Resp: 343634

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	39.6
88	15.7	0.0	30.2

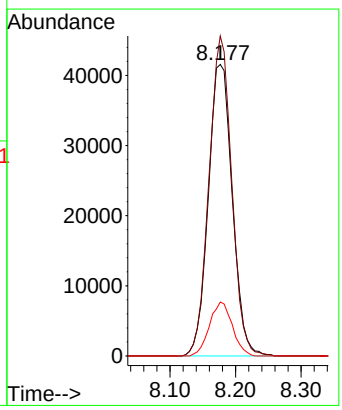


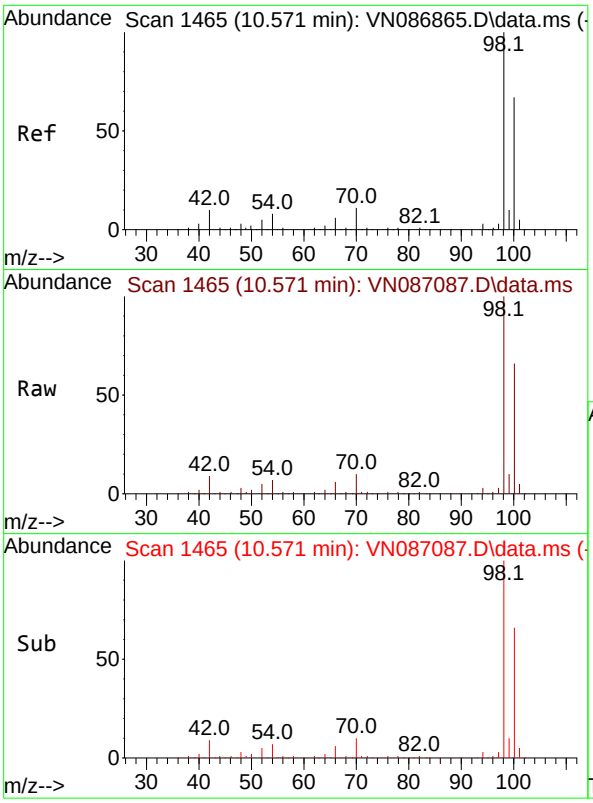


#35
Dibromofluoromethane
Concen: 51.916 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087087.D
Acq: 18 Jun 2025 15:46

Tgt Ion:113 Resp: 105724

Ion	Ratio	Lower	Upper
113	100		
111	103.9	84.2	126.2
192	17.6	14.2	21.4



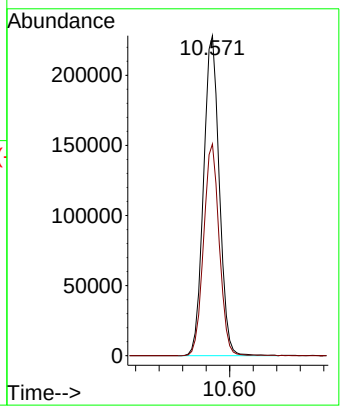


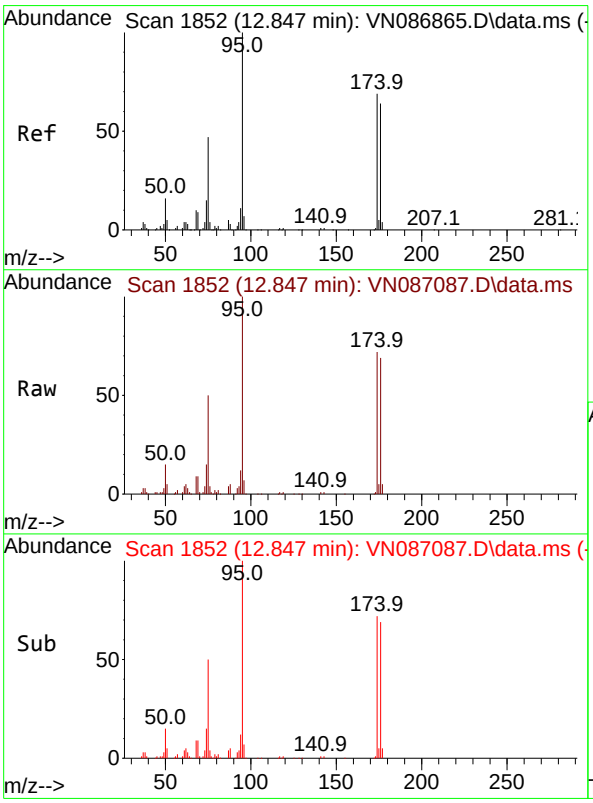
#50
Toluene-d8
Concen: 52.601 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087087.D
Acq: 18 Jun 2025 15:46

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-11-20250613

Tgt Ion: 98 Resp: 424060

Ion	Ratio	Lower	Upper
98	100		
100	65.7	53.4	80.0

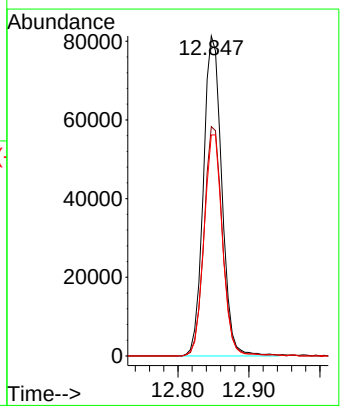


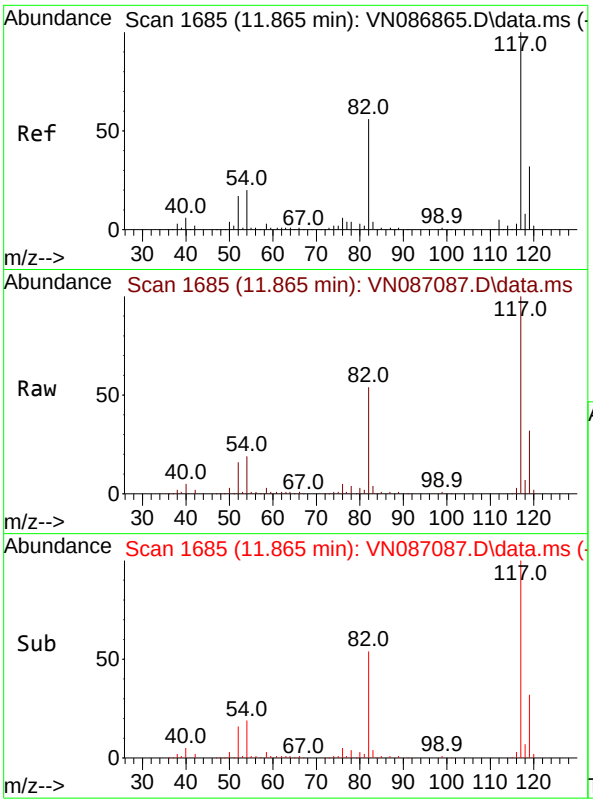


#62
4-Bromofluorobenzene
Concen: 48.962 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087087.D
Acq: 18 Jun 2025 15:46

Tgt Ion: 95 Resp: 146651

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	141.8
176	69.2	0.0	132.6



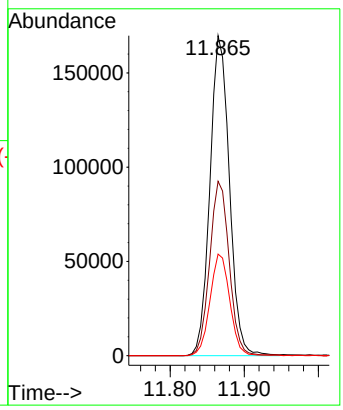


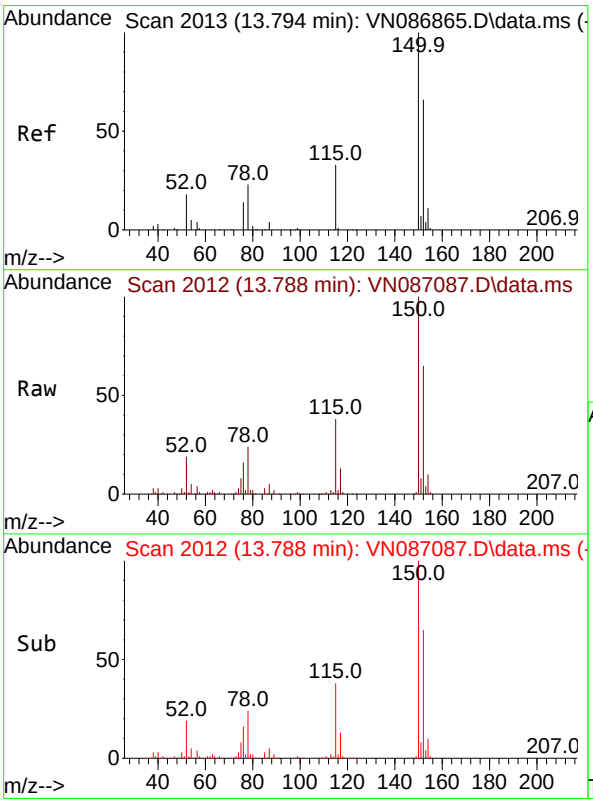
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087087.D
Acq: 18 Jun 2025 15:46

Instrument :
MSVOA_N
ClientSampleId :
BPOW6-11-20250613

Tgt Ion:117 Resp: 309468

Ion	Ratio	Lower	Upper
117	100		
82	54.5	44.6	67.0
119	31.8	25.5	38.3

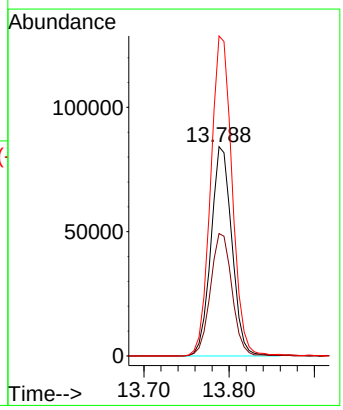




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087087.D
Acq: 18 Jun 2025 15:46

Tgt Ion:152 Resp: 143673

Ion	Ratio	Lower	Upper
152	100		
115	60.4	30.1	90.5
150	157.1	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT149S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087088.D	1		06/18/25 16:08	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	5.70		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	2.80		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT149S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087088.D	1		06/18/25 16:08	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.71	J	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	52.6		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	253000	8.235				
540-36-3	1,4-Difluorobenzene	502000	9.106				
3114-55-4	Chlorobenzene-d5	459000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	211000	13.794				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT149S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-09	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087088.D	1		06/18/25 16:08	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061825\
Data File : VN087088.D
Acq On : 18 Jun 2025 16:08
Operator : JC\MD
Sample : Q2329-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

Quant Time: Jun 19 01:30:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

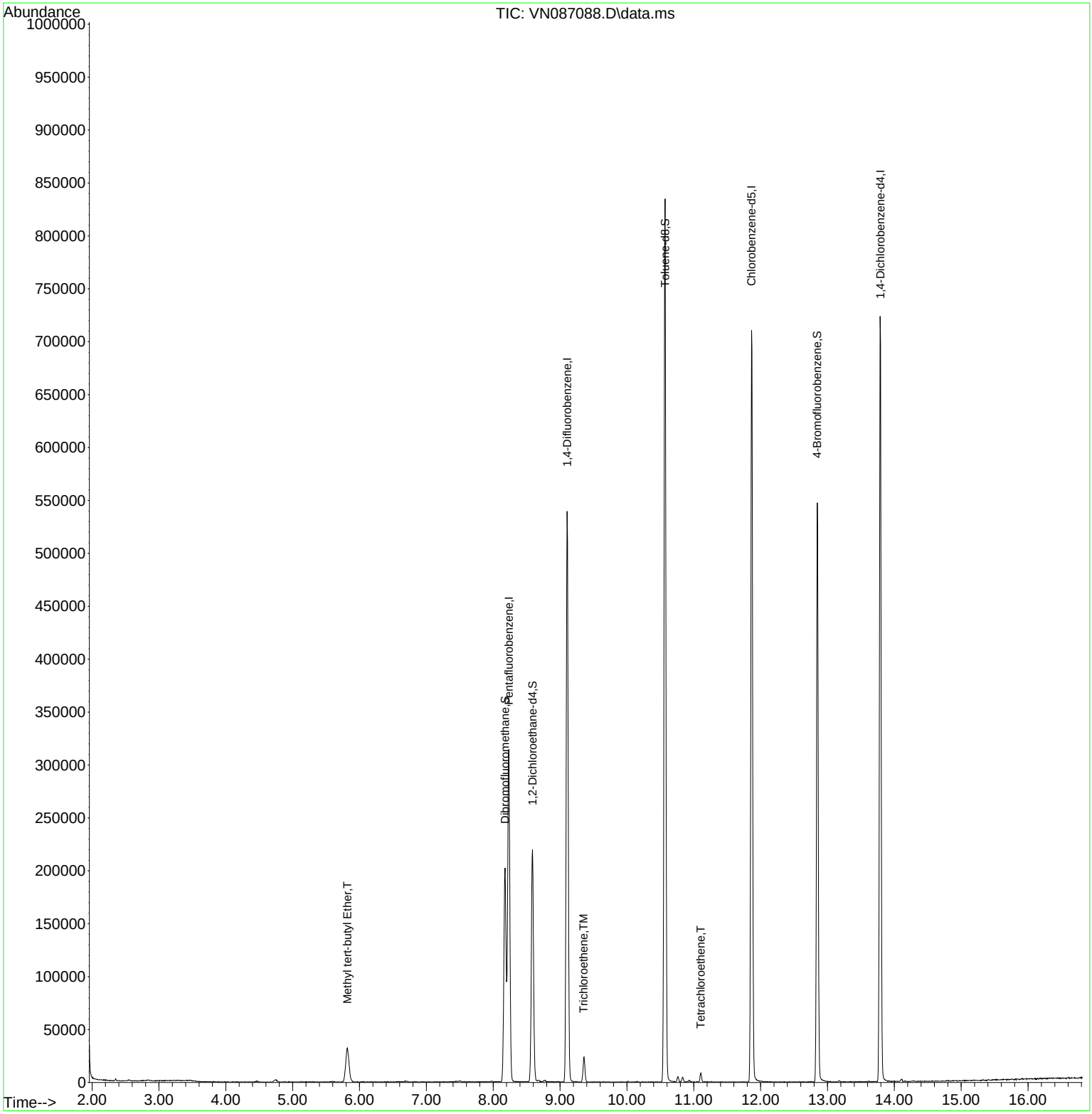
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	253025	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	501869	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	459032	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	210865	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	180231	53.201	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.400%			
35) Dibromofluoromethane	8.177	113	157046	52.803	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.600%			
50) Toluene-d8	10.571	98	619300	52.599	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.200%			
62) 4-Bromofluorobenzene	12.847	95	221136	50.552	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.100%			
Target Compounds						Qvalue
19) Methyl tert-butyl Ether	5.818	73	57929	5.681	ug/l	98
44) Trichloroethene	9.353	130	9488	2.761	ug/l	98
64) Tetrachloroethene	11.106	164	2065	0.711	ug/l #	75

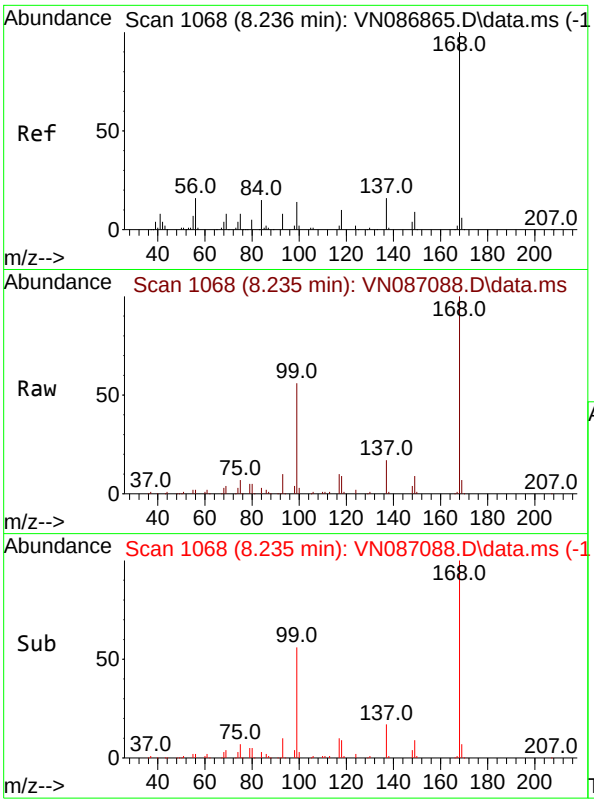
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087088.D
Acq On : 18 Jun 2025 16:08
Operator : JC\MD
Sample : Q2329-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

Quant Time: Jun 19 01:30:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



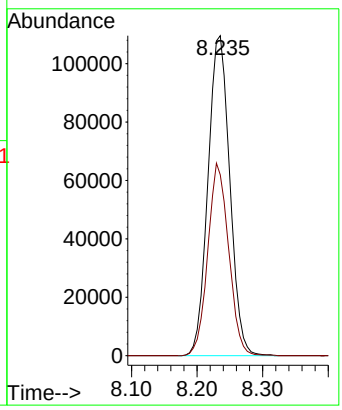


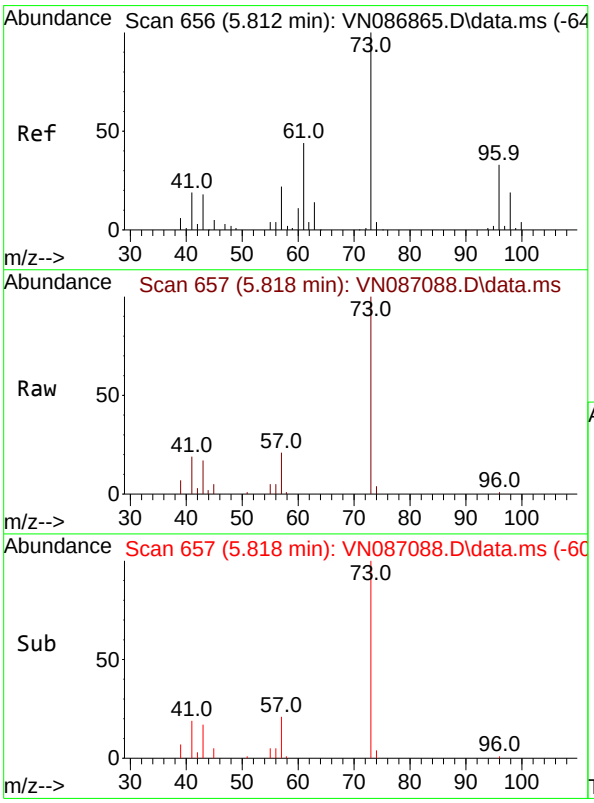
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

Tgt Ion:168 Resp: 253025

Ion	Ratio	Lower	Upper
168	100		
99	56.5	49.1	73.7

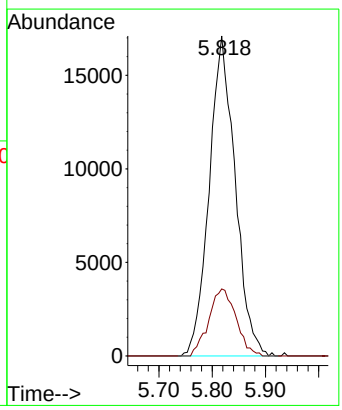


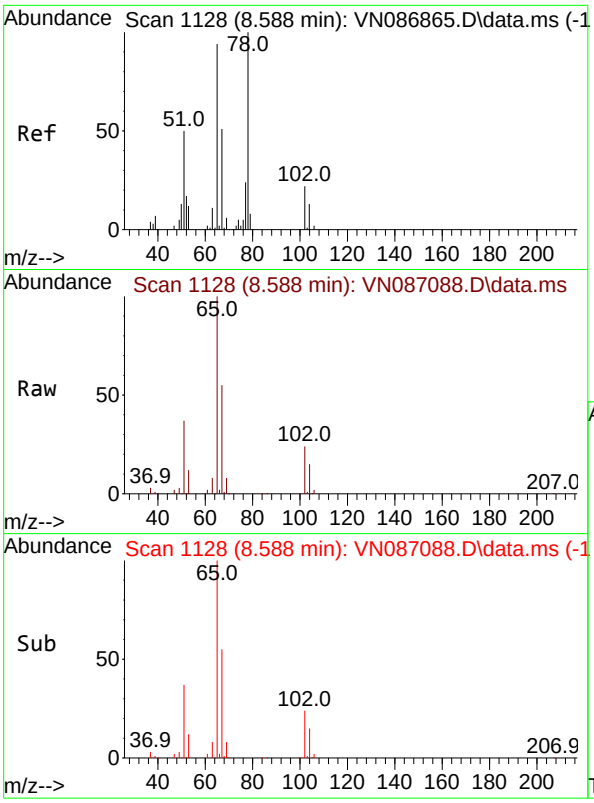


#19
Methyl tert-butyl Ether
Concen: 5.681 ug/l
RT: 5.818 min Scan# 657
Delta R.T. 0.006 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Tgt Ion: 73 Resp: 57929

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.2



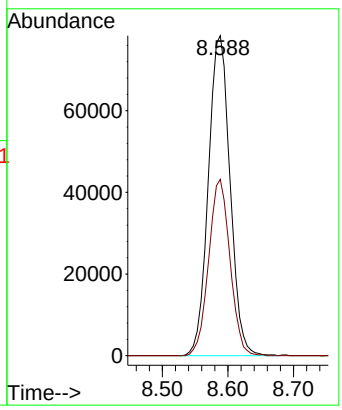


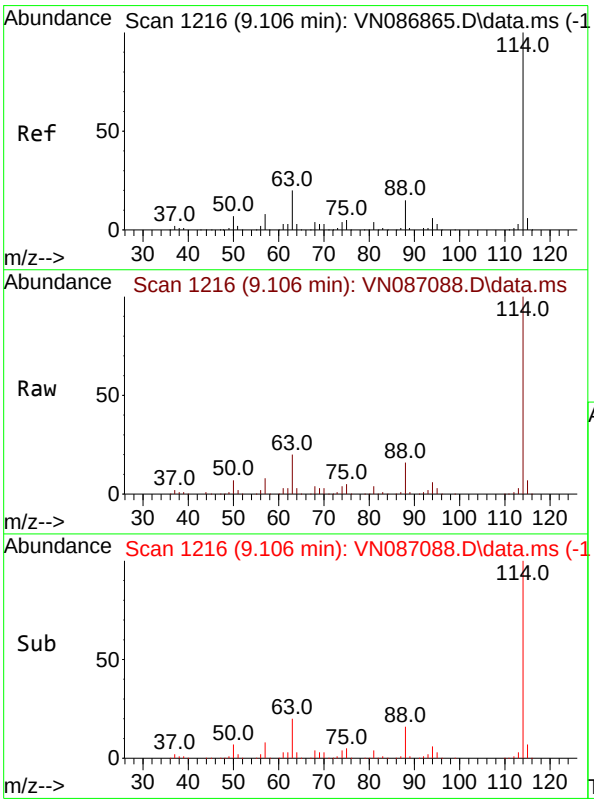
#33
1,2-Dichloroethane-d4
Concen: 53.201 ug/l
RT: 8.588 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

Tgt Ion: 65 Resp: 180231

Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	105.6

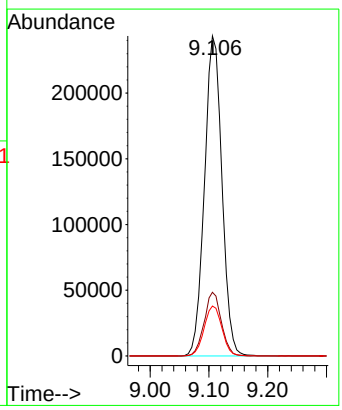


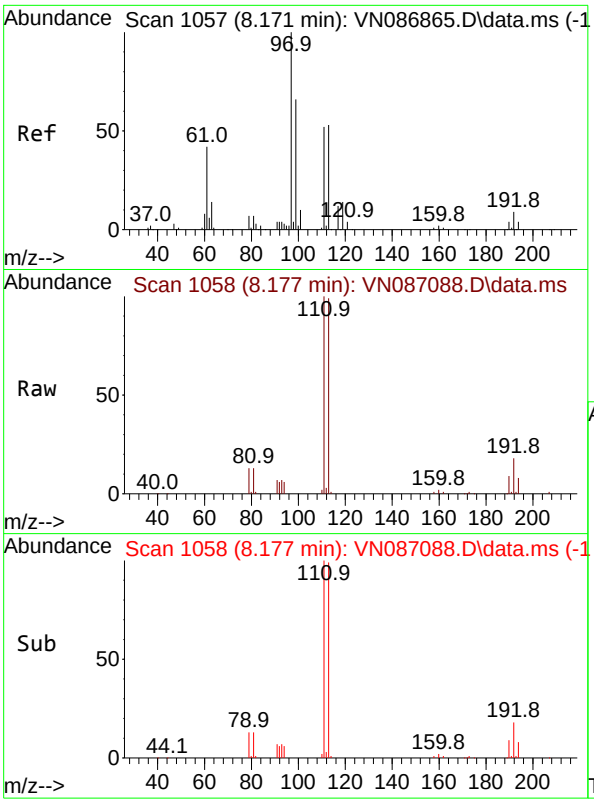


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Tgt Ion:114 Resp: 501869

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	39.6
88	15.6	0.0	30.2



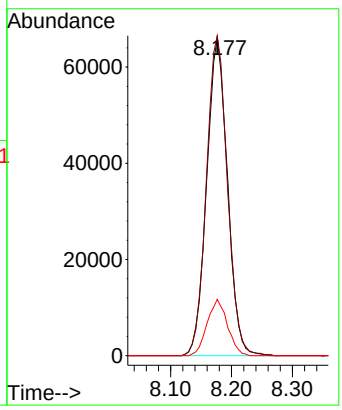


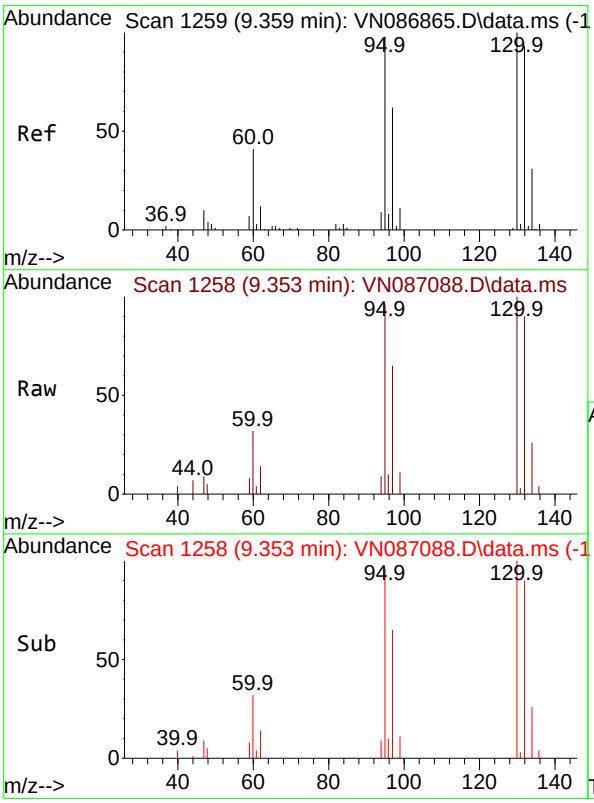
#35
Dibromofluoromethane
Concen: 52.803 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

Tgt Ion:113 Resp: 157046

Ion	Ratio	Lower	Upper
113	100		
111	101.5	84.2	126.2
192	17.3	14.2	21.4

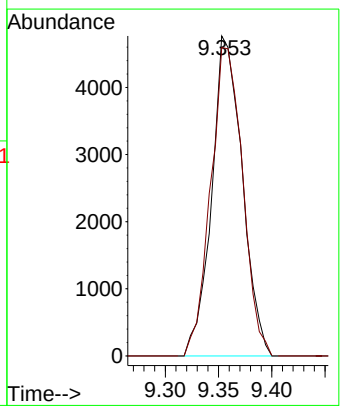


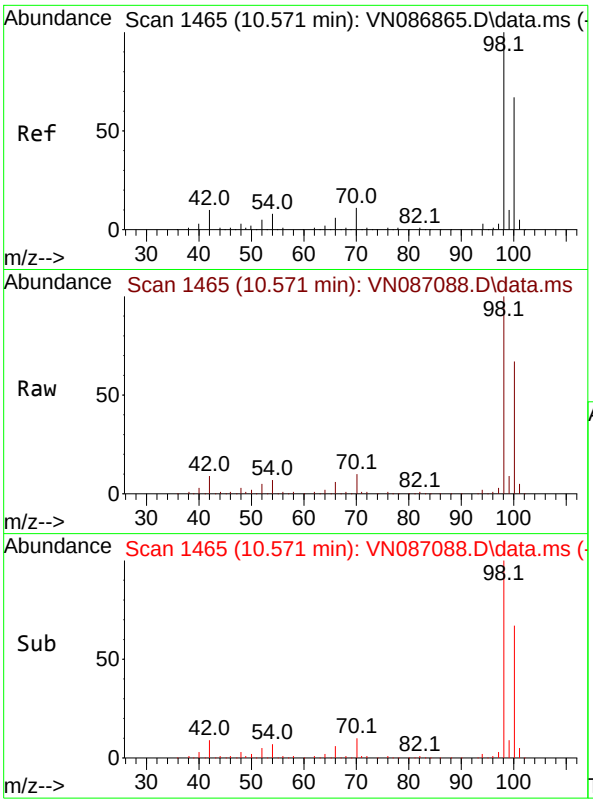


#44
Trichloroethene
Concen: 2.761 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Tgt Ion:130 Resp: 9488

Ion	Ratio	Lower	Upper
130	100		
95	96.4	0.0	196.2



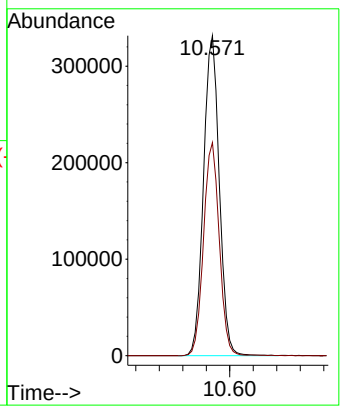


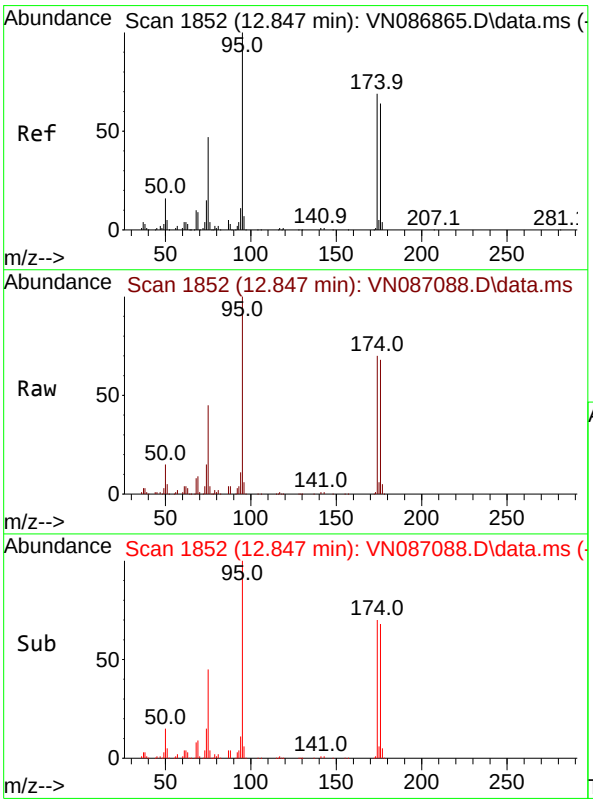
#50
Toluene-d8
Concen: 52.599 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

Tgt Ion: 98 Resp: 619300

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.4	80.0

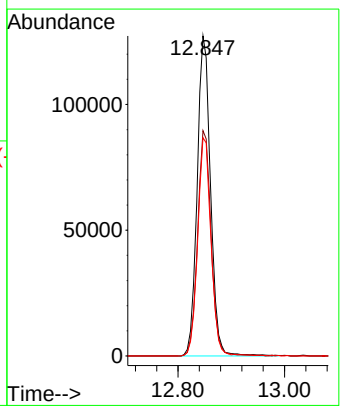


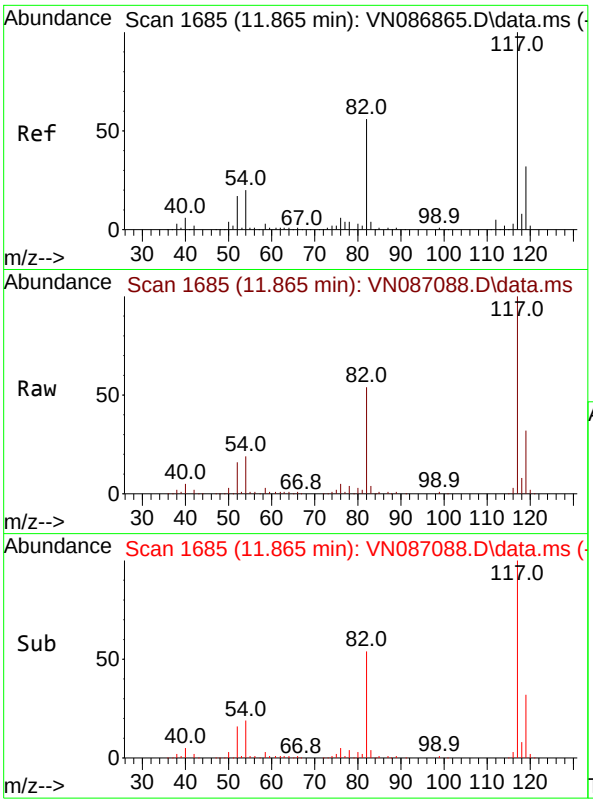


#62
4-Bromofluorobenzene
Concen: 50.552 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Tgt Ion: 95 Resp: 221136

Ion	Ratio	Lower	Upper
95	100		
174	71.4	0.0	141.8
176	68.0	0.0	132.6



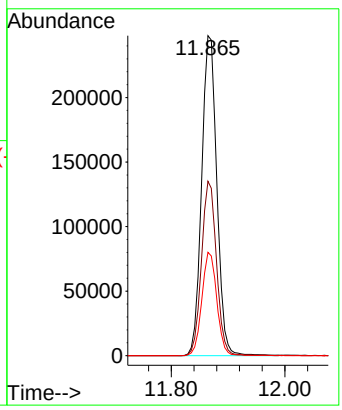


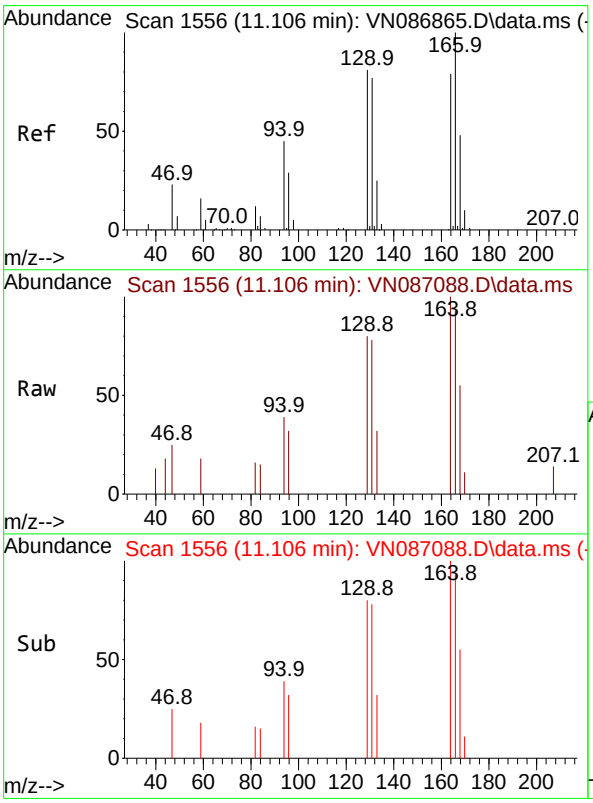
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

Tgt Ion:117 Resp: 459032

Ion	Ratio	Lower	Upper
117	100		
82	54.5	44.6	67.0
119	32.3	25.5	38.3

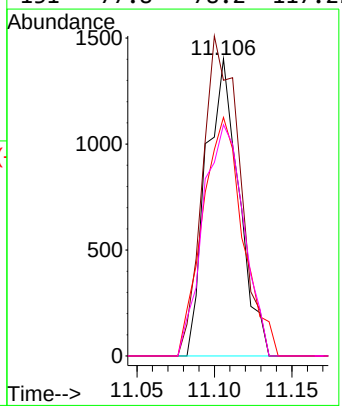


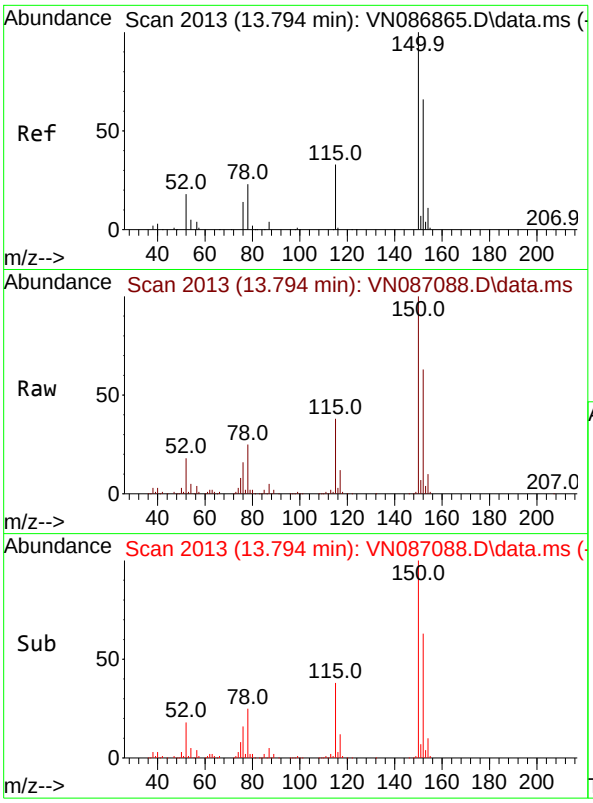


#64
Tetrachloroethene
Concen: 0.711 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Tgt Ion:164 Resp: 2065

Ion	Ratio	Lower	Upper
164	100		
166	92.8	101.8	152.8#
129	80.3	83.0	124.4#
131	77.8	78.2	117.2#



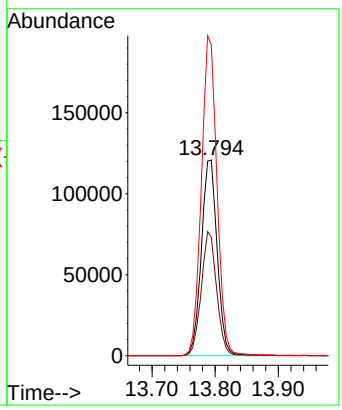


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087088.D
Acq: 18 Jun 2025 16:08

Instrument :
MSVOA_N
ClientSampleId :
TT149S1-20250613

Tgt Ion:152 Resp: 210865

Ion	Ratio	Lower	Upper
152	100		
115	61.8	30.1	90.5
150	161.0	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087117.D	1		06/19/25 17:10	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.44	J	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	36.4		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087117.D	1		06/19/25 17:10	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	1.60		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.1		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	53.1		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	175000	8.23				
540-36-3	1,4-Difluorobenzene	348000	9.106				
3114-55-4	Chlorobenzene-d5	314000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	148000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-10	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087117.D	1		06/19/25 17:10	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061925\
Data File : VN087117.D
Acq On : 19 Jun 2025 17:10
Operator : JC\MD
Sample : Q2329-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613

Quant Time: Jun 20 01:29:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

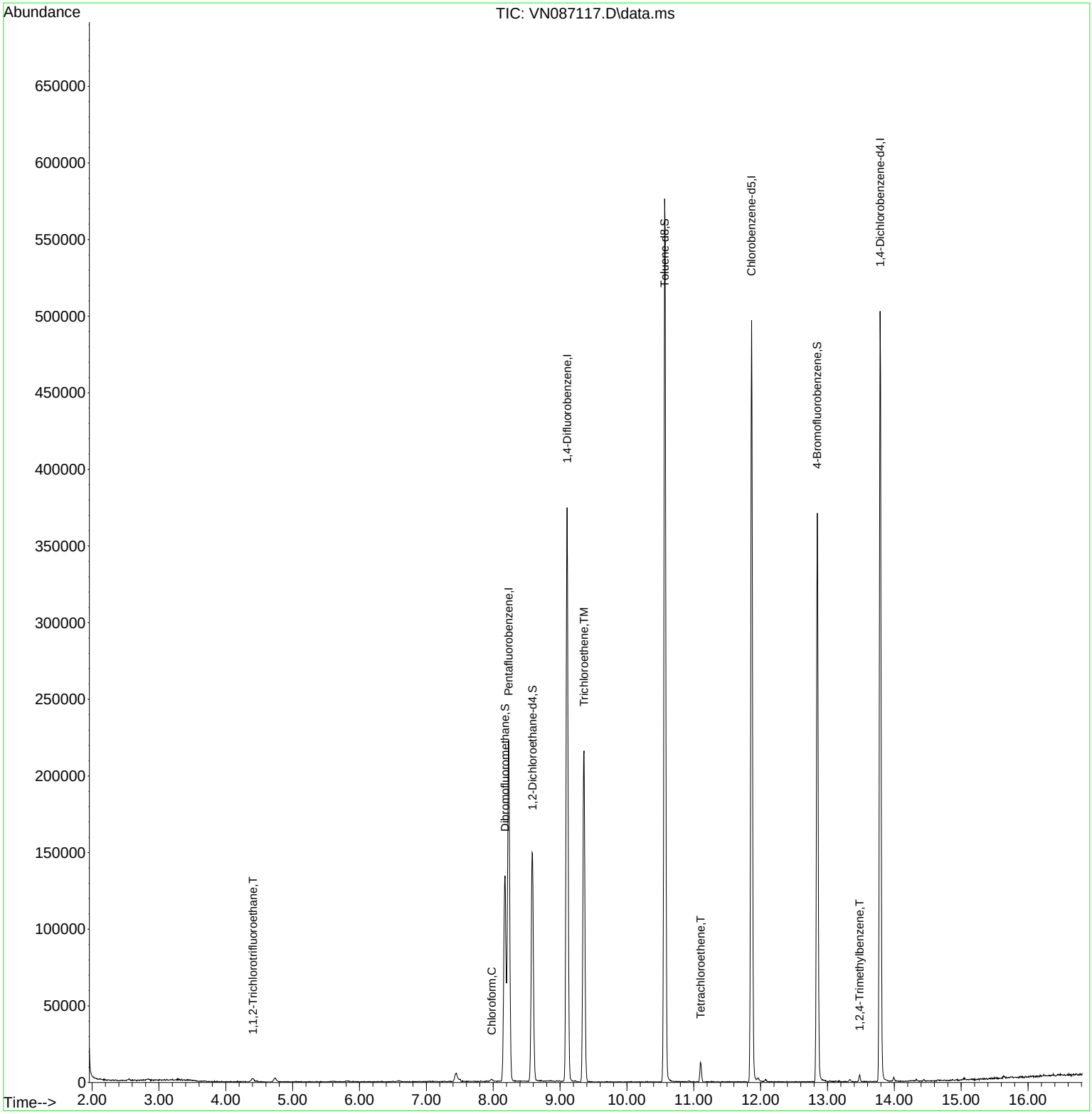
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	174693	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	347567	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	313987	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	147771	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	124120	53.067	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.140%			
35) Dibromofluoromethane	8.177	113	105308	51.126	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.260%			
50) Toluene-d8	10.565	98	433267	53.135	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.280%			
62) 4-Bromofluorobenzene	12.847	95	149492	49.346	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.700%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	4.406	101	2113	1.109	ug/l #	85
30) Chloroform	7.977	83	1728	0.442	ug/l	91
44) Trichloroethene	9.359	130	86736	36.446	ug/l	99
64) Tetrachloroethene	11.106	164	3135	1.578	ug/l	87
84) 1,2,4-Trimethylbenzene	13.482	105	3180	0.357	ug/l	99

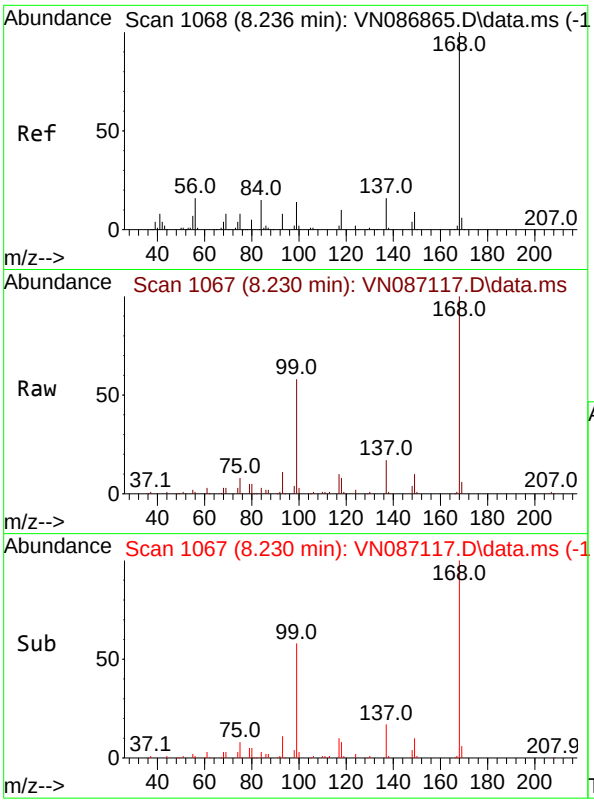
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087117.D
Acq On : 19 Jun 2025 17:10
Operator : JC\MD
Sample : Q2329-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613

Quant Time: Jun 20 01:29:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



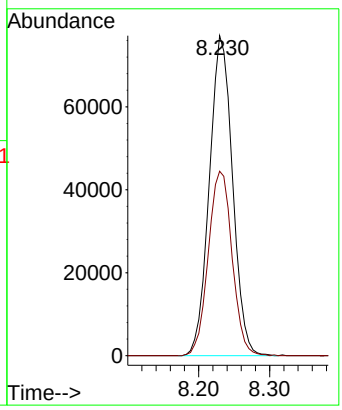


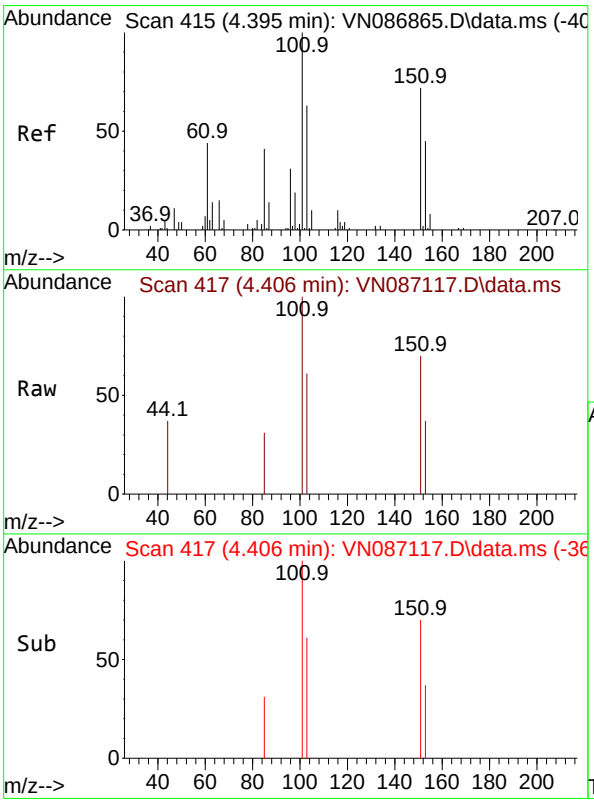
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613

Tgt Ion:168 Resp: 174693

Ion	Ratio	Lower	Upper
168	100		
99	57.6	49.1	73.7

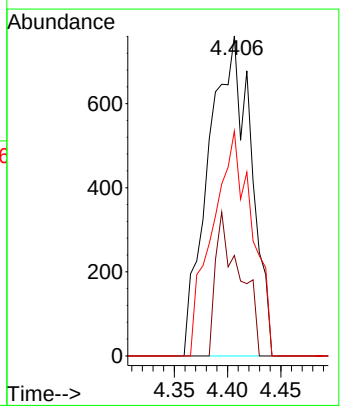


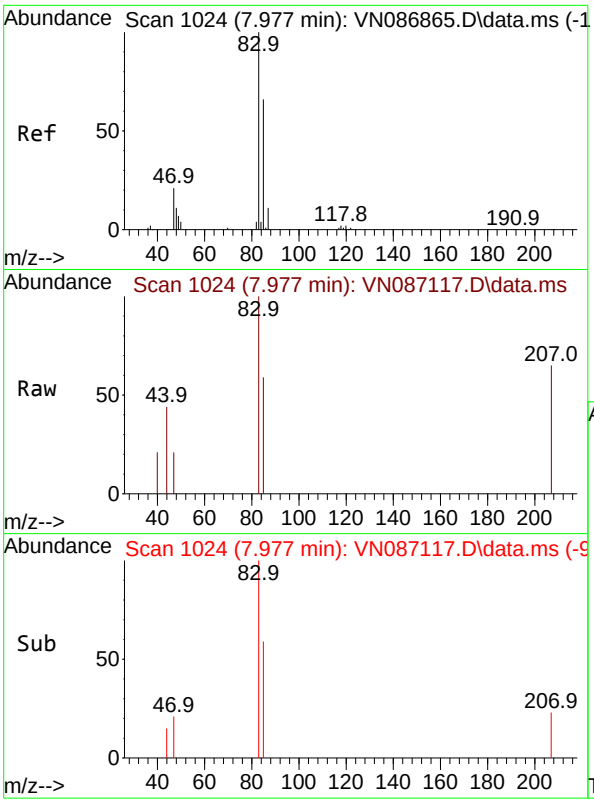


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.109 ug/l
RT: 4.406 min Scan# 417
Delta R.T. 0.012 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Tgt Ion:101 Resp: 2113

Ion	Ratio	Lower	Upper
101	100		
85	25.9	33.8	50.8#
151	65.7	58.7	88.1



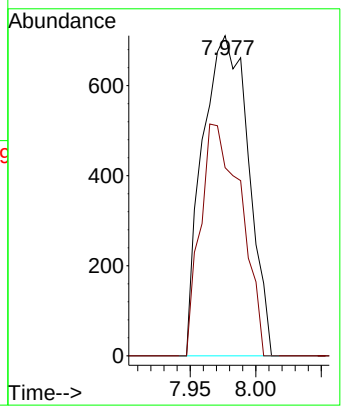


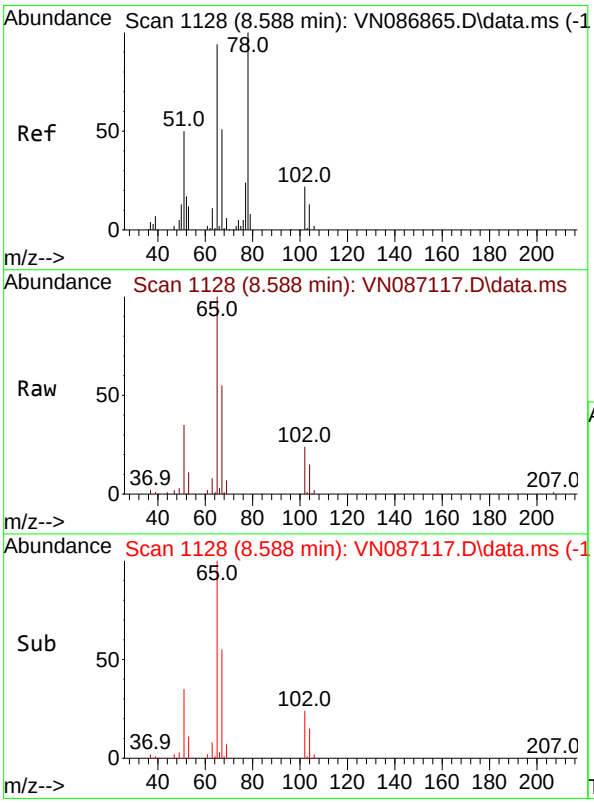
#30
Chloroform
Concen: 0.442 ug/l
RT: 7.977 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613

Tgt Ion: 83 Resp: 1728

Ion	Ratio	Lower	Upper
83	100		
85	58.8	52.9	79.3

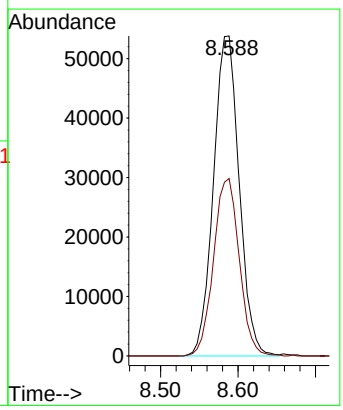


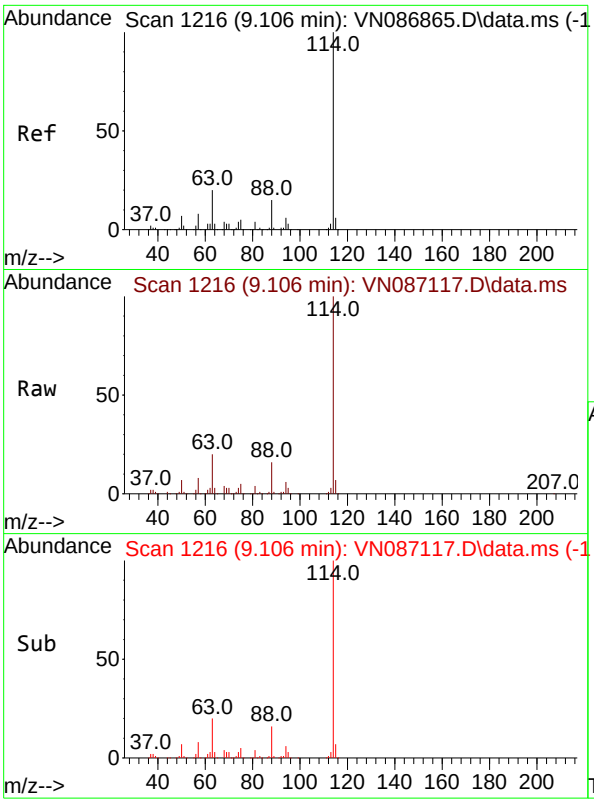


#33
1,2-Dichloroethane-d4
Concen: 53.067 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Tgt Ion: 65 Resp: 124120

Ion	Ratio	Lower	Upper
65	100		
67	55.5	0.0	105.6



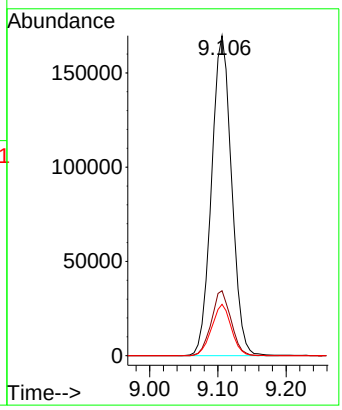


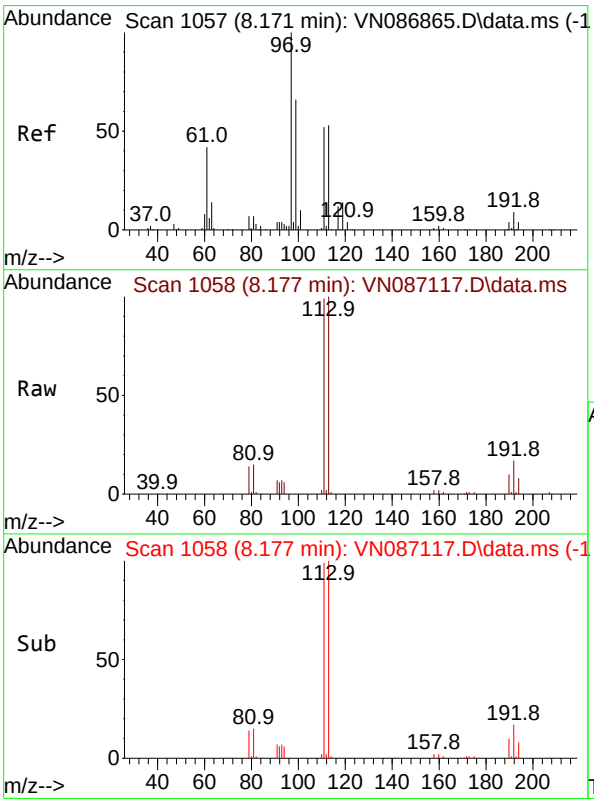
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613

Tgt Ion:114 Resp: 347567

Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	39.6
88	16.0	0.0	30.2

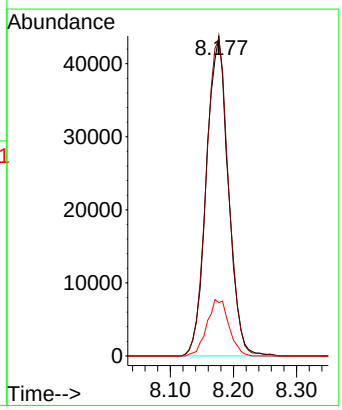


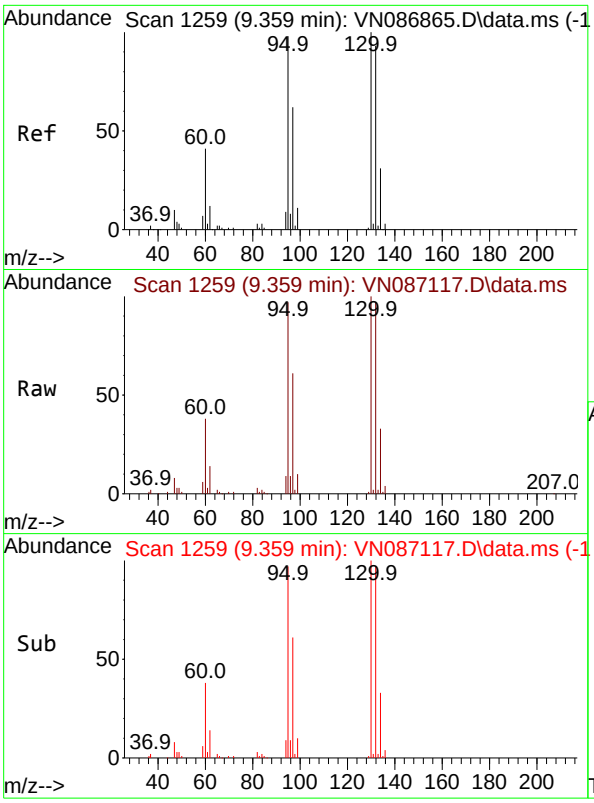


#35
Dibromofluoromethane
Concen: 51.126 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Tgt Ion:113 Resp: 105308

Ion	Ratio	Lower	Upper
113	100		
111	101.5	84.2	126.2
192	17.7	14.2	21.4



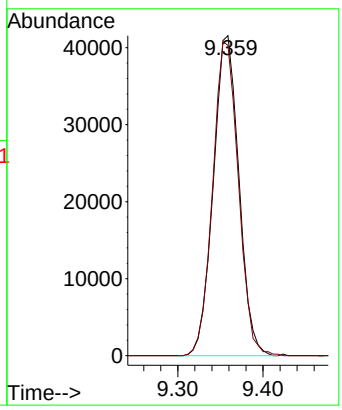


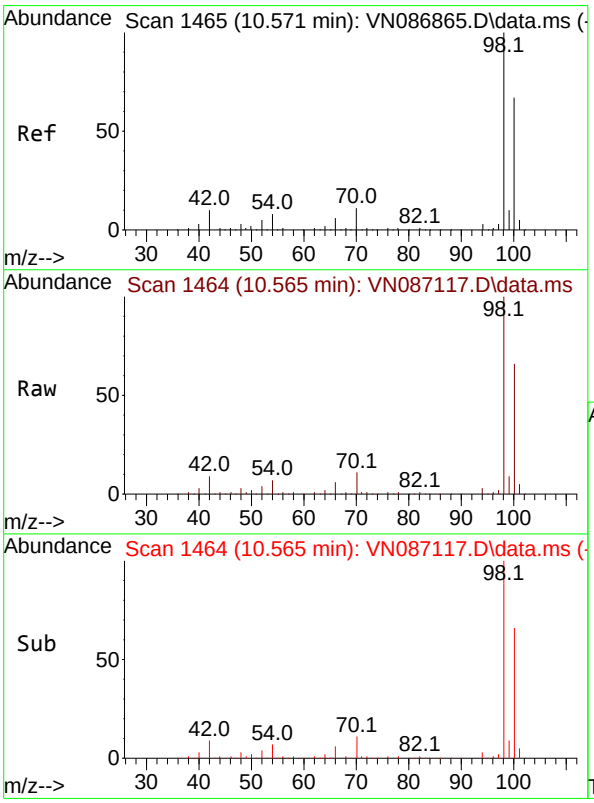
#44
Trichloroethene
Concen: 36.446 ug/l
RT: 9.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613

Tgt Ion:130 Resp: 86736

Ion	Ratio	Lower	Upper
130	100		
95	97.0	0.0	196.2

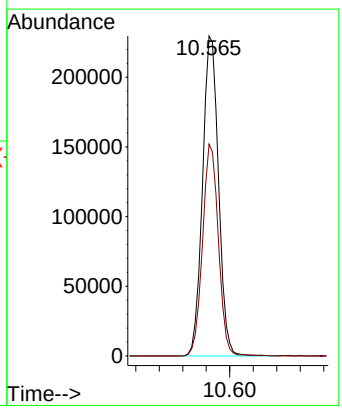


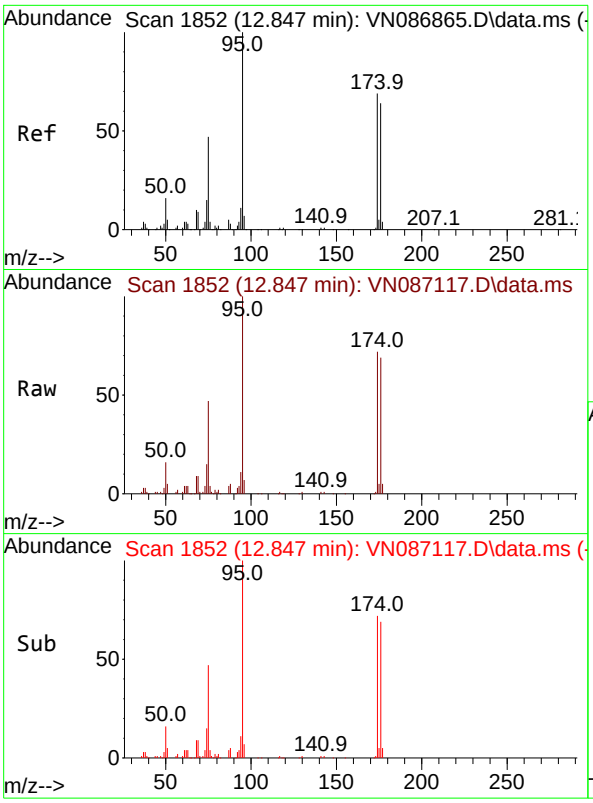


#50
Toluene-d8
Concen: 53.135 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Tgt Ion: 98 Resp: 433267

Ion	Ratio	Lower	Upper
98	100		
100	65.5	53.4	80.0



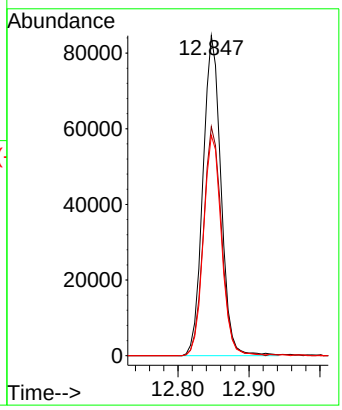


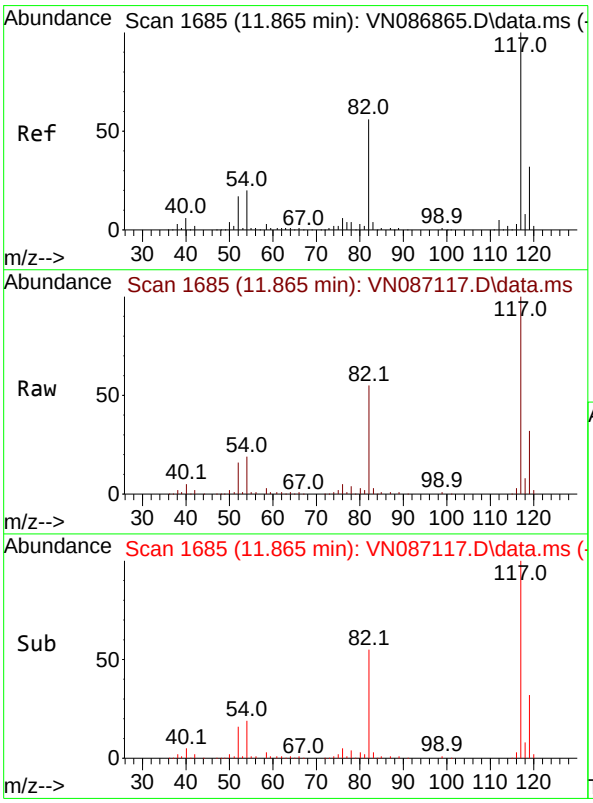
#62
4-Bromofluorobenzene
Concen: 49.346 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613

Tgt Ion: 95 Resp: 149492

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	141.8
176	68.9	0.0	132.6

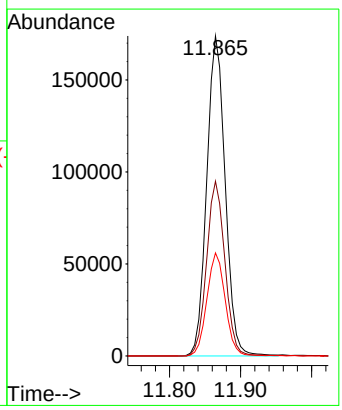


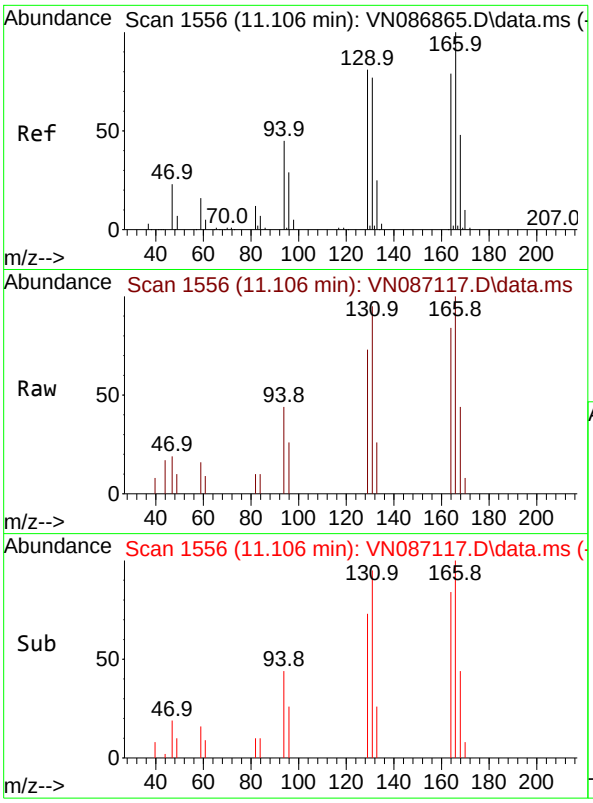


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Tgt Ion:117 Resp: 313987

Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.6	67.0
119	32.2	25.5	38.3



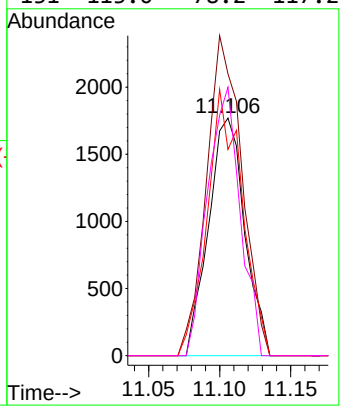


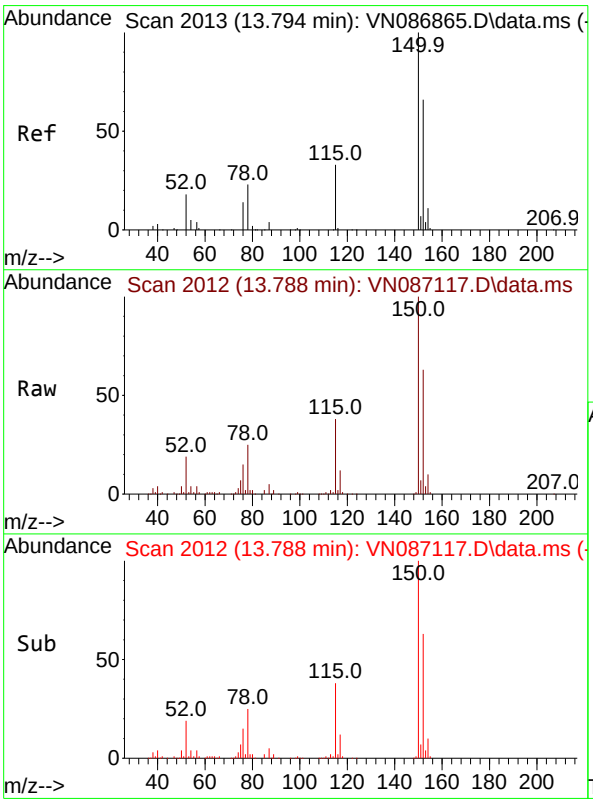
#64
Tetrachloroethene
Concen: 1.578 ug/l
RT: 11.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613

Tgt Ion:164 Resp: 3135

Ion	Ratio	Lower	Upper
164	100		
166	118.6	101.8	152.8
129	86.8	83.0	124.4
131	113.0	78.2	117.2

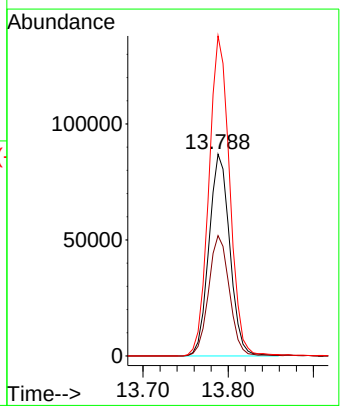


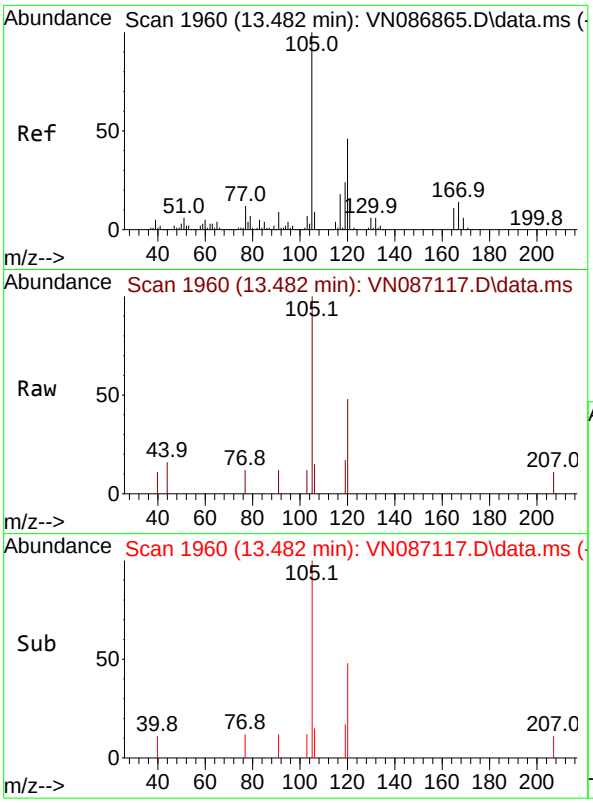


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Tgt Ion:152 Resp: 147771

Ion	Ratio	Lower	Upper
152	100		
115	59.6	30.1	90.5
150	158.7	0.0	345.0



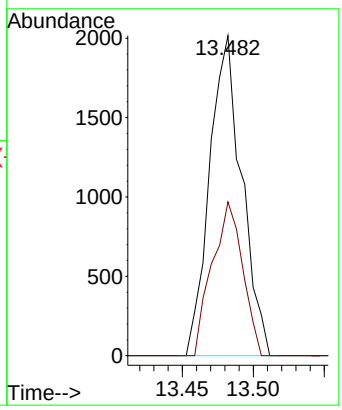


#84
1,2,4-Trimethylbenzene
Concen: 0.357 ug/l
RT: 13.482 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087117.D
Acq: 19 Jun 2025 17:10

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613

Tgt Ion:105 Resp: 3180

Ion	Ratio	Lower	Upper
105	100		
120	45.4	23.2	69.6



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	DUP03-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-13	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087089.D	1		06/18/25 16:30	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	DUP03-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-13	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087089.D	1		06/18/25 16:30	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.8		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	52.2		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	270000	8.235				
540-36-3	1,4-Difluorobenzene	556000	9.106				
3114-55-4	Chlorobenzene-d5	502000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	235000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	DUP03-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-13	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087089.D	1		06/18/25 16:30	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061825\
Data File : VN087089.D
Acq On : 18 Jun 2025 16:30
Operator : JC\MD
Sample : Q2329-13
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
DUP03-20250613

Quant Time: Jun 19 01:31:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	270167	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	555521	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	502443	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	235183	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	198127	54.773	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.540%			
35) Dibromofluoromethane	8.177	113	170402	51.760	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.520%			
50) Toluene-d8	10.571	98	680620	52.224	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.440%			
62) 4-Bromofluorobenzene	12.847	95	240178	49.603	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.200%			

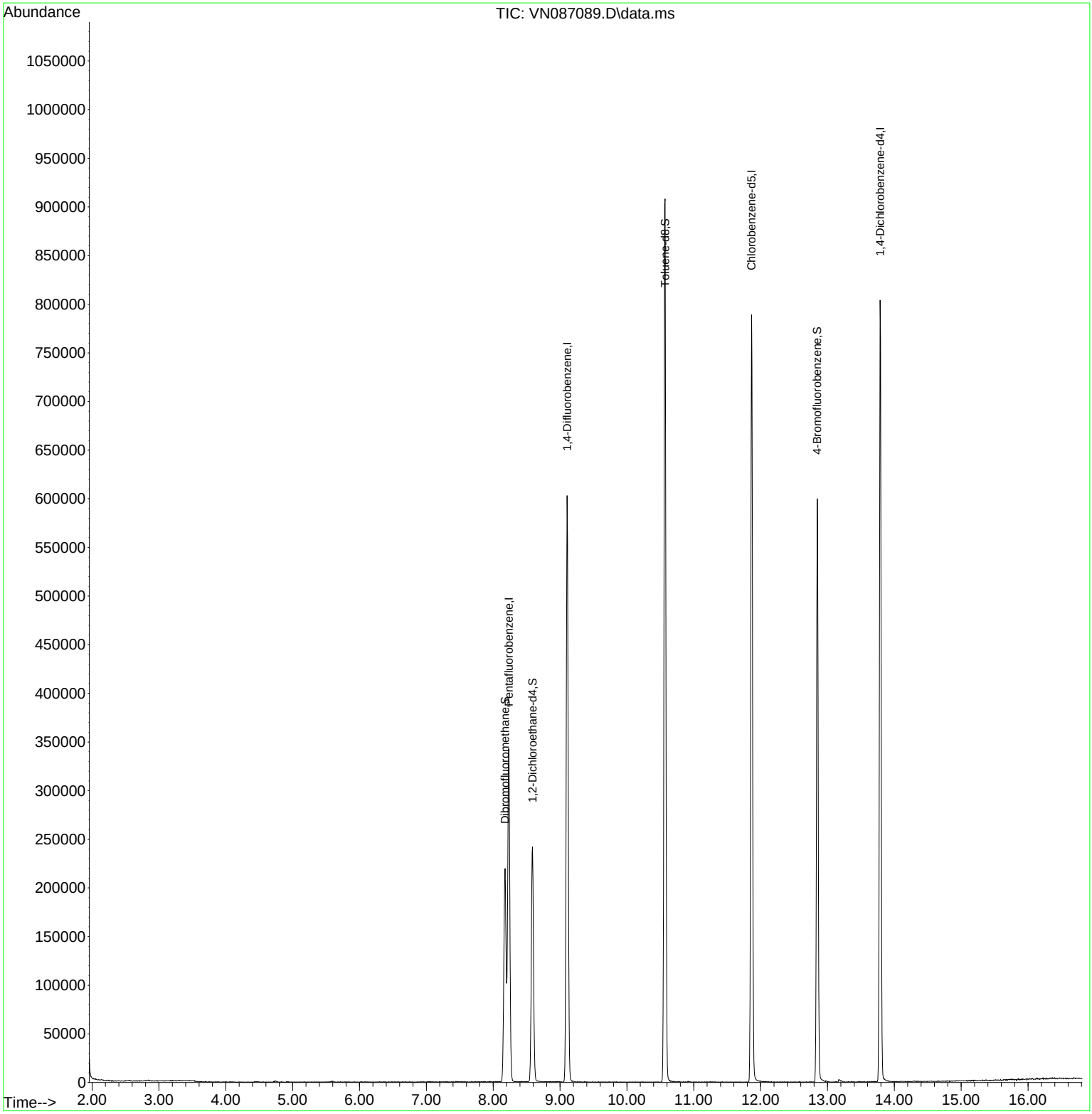
Target Compounds Qvalue

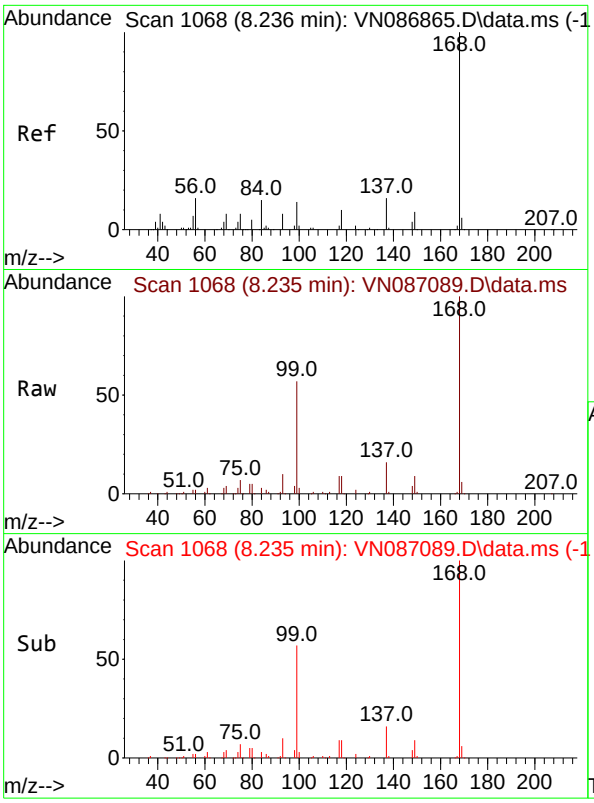
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087089.D
Acq On : 18 Jun 2025 16:30
Operator : JC\MD
Sample : Q2329-13
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
DUP03-20250613

Quant Time: Jun 19 01:31:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



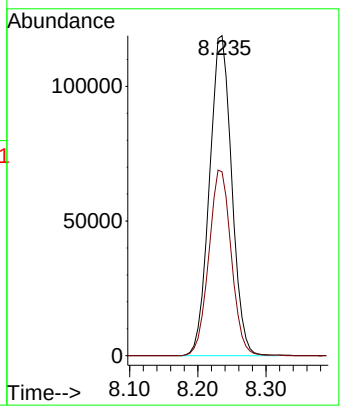


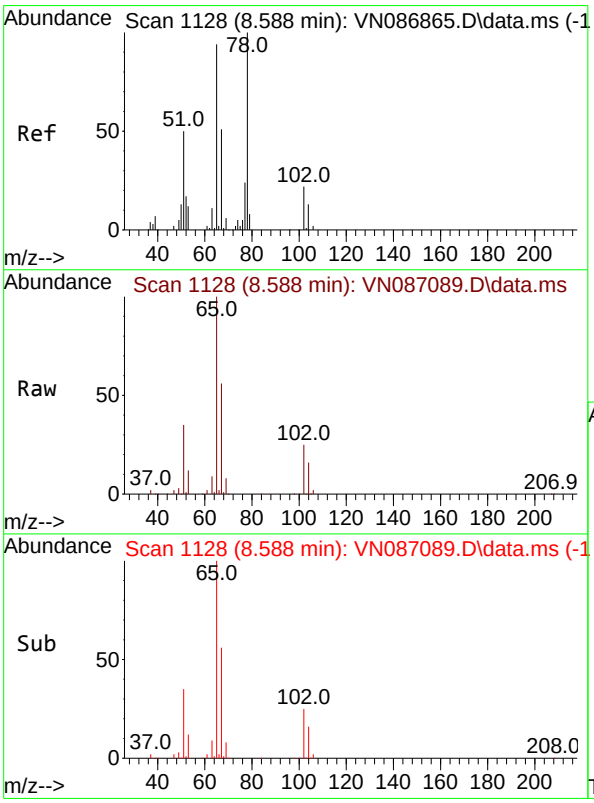
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN087089.D
Acq: 18 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
DUP03-20250613

Tgt Ion:168 Resp: 270167

Ion	Ratio	Lower	Upper
168	100		
99	57.5	49.1	73.7

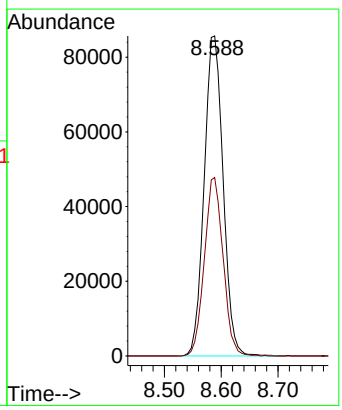


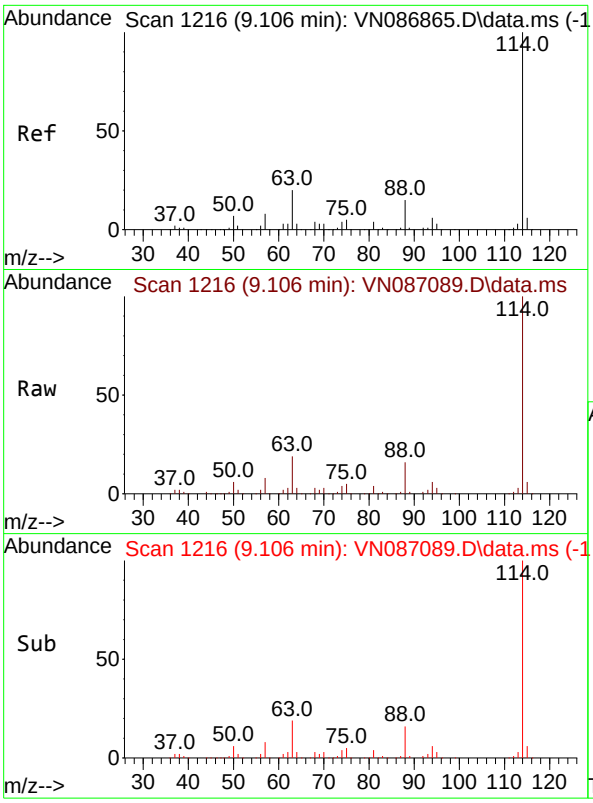


#33
1,2-Dichloroethane-d4
Concen: 54.773 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087089.D
Acq: 18 Jun 2025 16:30

Tgt Ion: 65 Resp: 198127

Ion	Ratio	Lower	Upper
65	100		
67	55.1	0.0	105.6



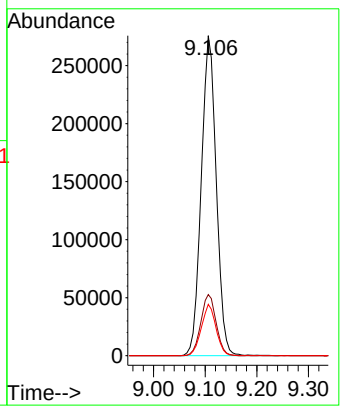


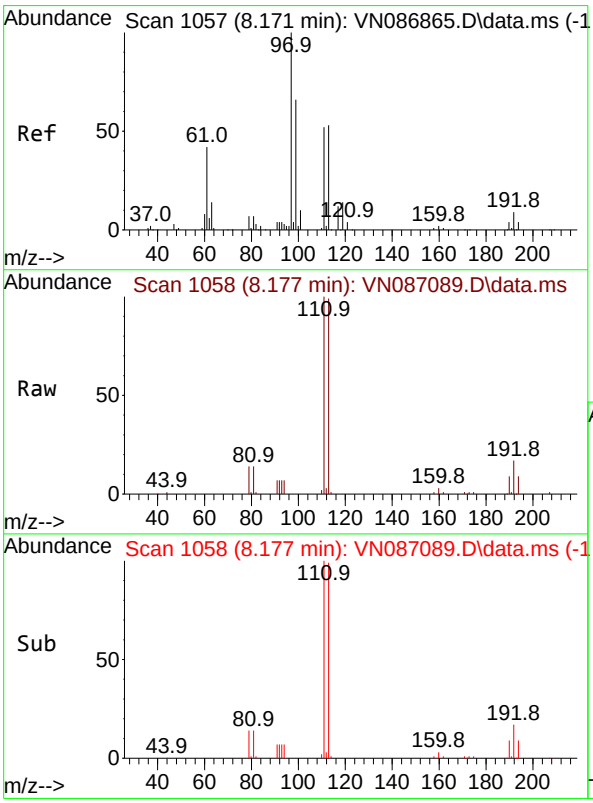
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087089.D
Acq: 18 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
DUP03-20250613

Tgt Ion:114 Resp: 555521

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	39.6
88	16.1	0.0	30.2

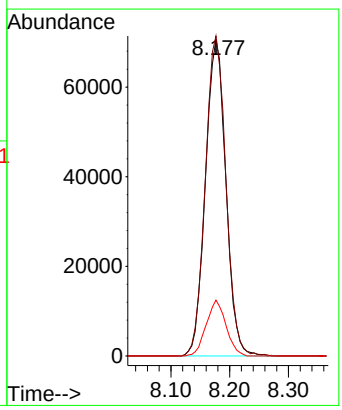


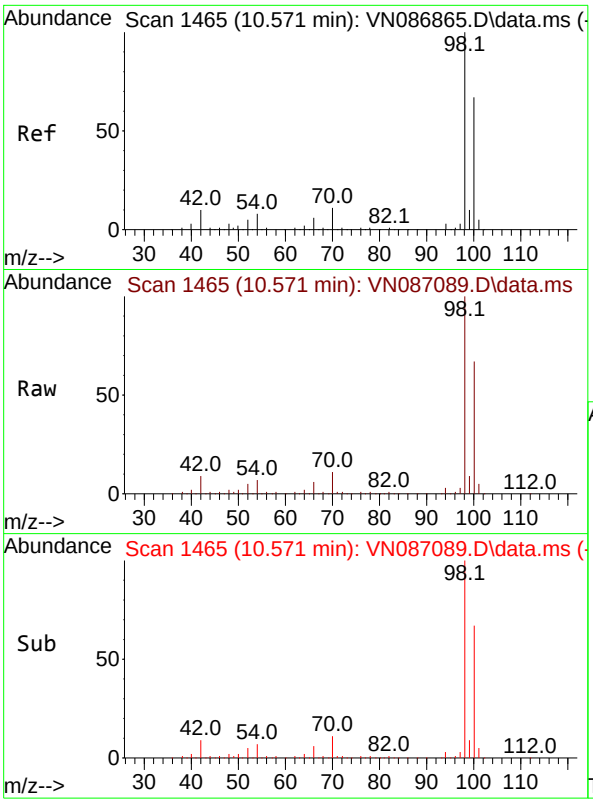


#35
Dibromofluoromethane
Concen: 51.760 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087089.D
Acq: 18 Jun 2025 16:30

Tgt Ion:113 Resp: 170402

Ion	Ratio	Lower	Upper
113	100		
111	102.1	84.2	126.2
192	17.1	14.2	21.4



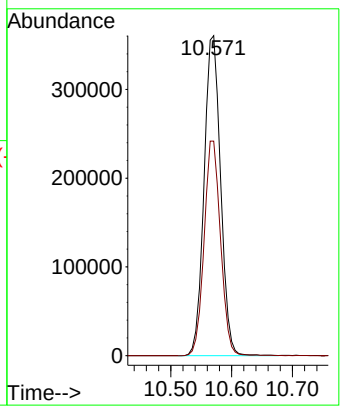


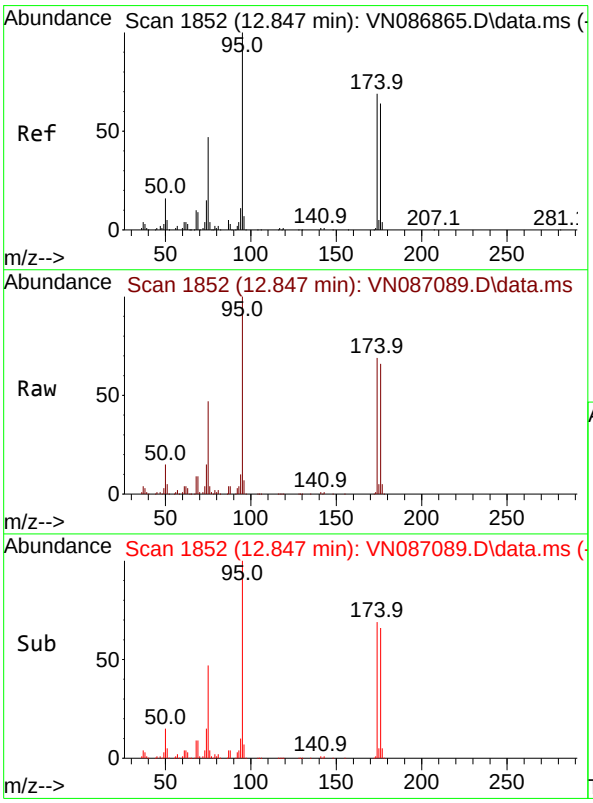
#50
Toluene-d8
Concen: 52.224 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087089.D
Acq: 18 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
DUP03-20250613

Tgt Ion: 98 Resp: 680620

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.4	80.0

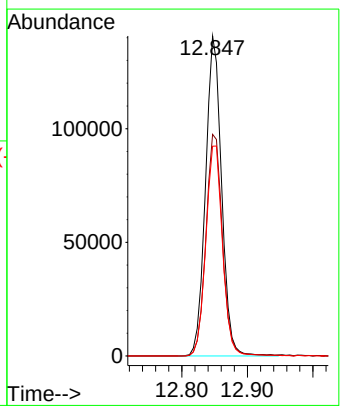


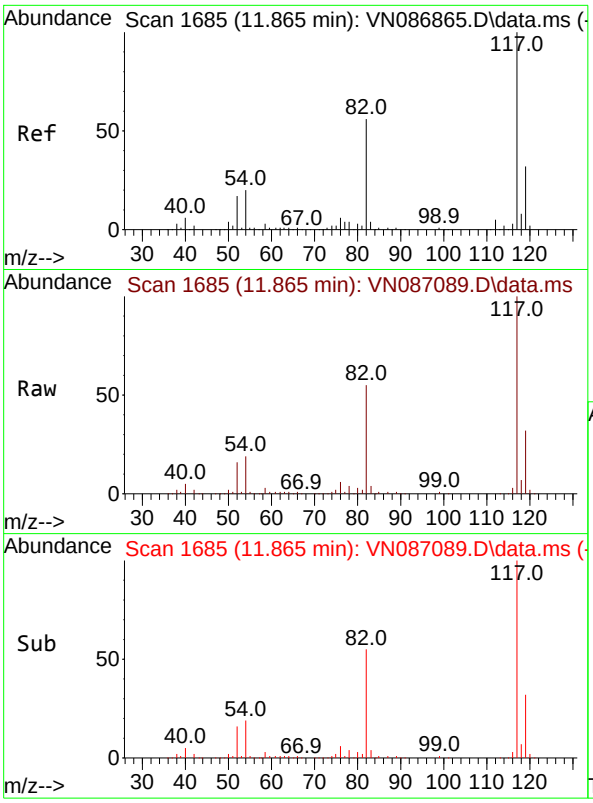


#62
4-Bromofluorobenzene
Concen: 49.603 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087089.D
Acq: 18 Jun 2025 16:30

Tgt Ion: 95 Resp: 240178

Ion	Ratio	Lower	Upper
95	100		
174	71.5	0.0	141.8
176	68.5	0.0	132.6



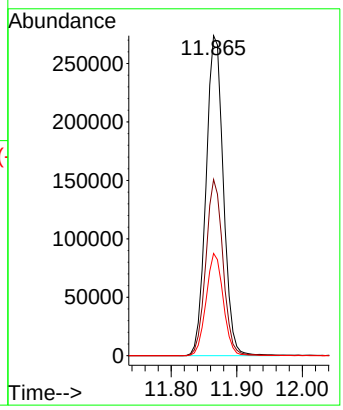


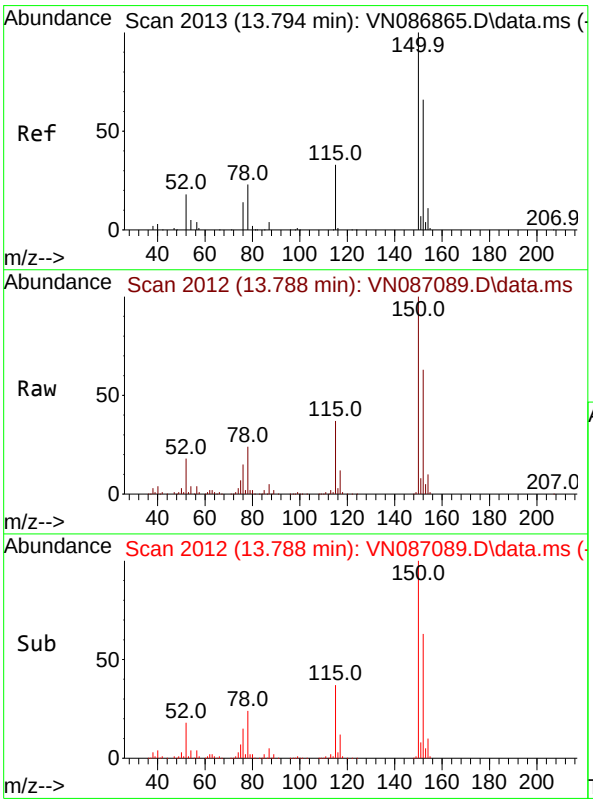
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087089.D
Acq: 18 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
DUP03-20250613

Tgt Ion:117 Resp: 502443

Ion	Ratio	Lower	Upper
117	100		
82	55.1	44.6	67.0
119	32.0	25.5	38.3

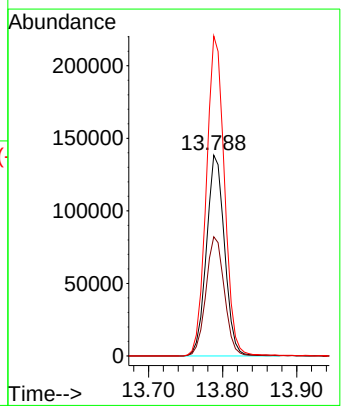




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087089.D
Acq: 18 Jun 2025 16:30

Tgt Ion:152 Resp: 235183

Ion	Ratio	Lower	Upper
152	100		
115	60.7	30.1	90.5
150	159.6	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	DUP04-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-14	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087090.D	1		06/18/25 16:52	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	7.40		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	3.50		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	DUP04-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-14	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087090.D	1		06/18/25 16:52	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.94	J	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.9		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	52.5		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	188000	8.236				
540-36-3	1,4-Difluorobenzene	380000	9.106				
3114-55-4	Chlorobenzene-d5	345000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	162000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	DUP04-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-14	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087090.D	1		06/18/25 16:52	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061825\
Data File : VN087090.D
Acq On : 18 Jun 2025 16:52
Operator : JC\MD
Sample : Q2329-14
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
DUP04-20250613

Quant Time: Jun 19 01:31:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

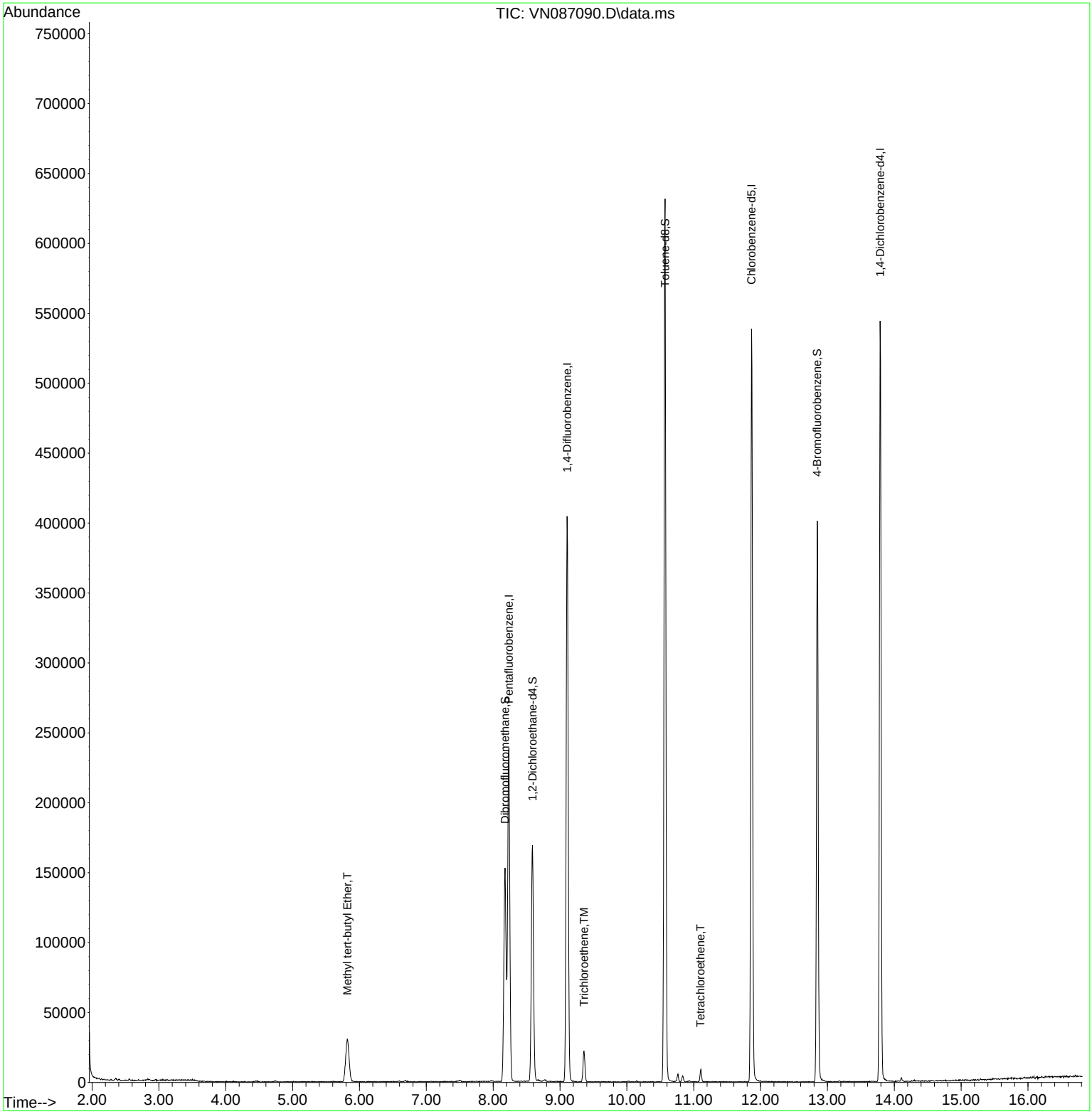
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.236	168	187618	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	379825	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	344732	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	162129	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	137942	54.913	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.820%			
35) Dibromofluoromethane	8.177	113	118477	52.635	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.260%			
50) Toluene-d8	10.571	98	468161	52.538	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.080%			
62) 4-Bromofluorobenzene	12.847	95	162968	49.226	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.460%			
Target Compounds						Qvalue
19) Methyl tert-butyl Ether	5.818	73	56006	7.407	ug/l	97
44) Trichloroethene	9.359	130	9162	3.523	ug/l	99
64) Tetrachloroethene	11.100	164	2049	0.939	ug/l #	77

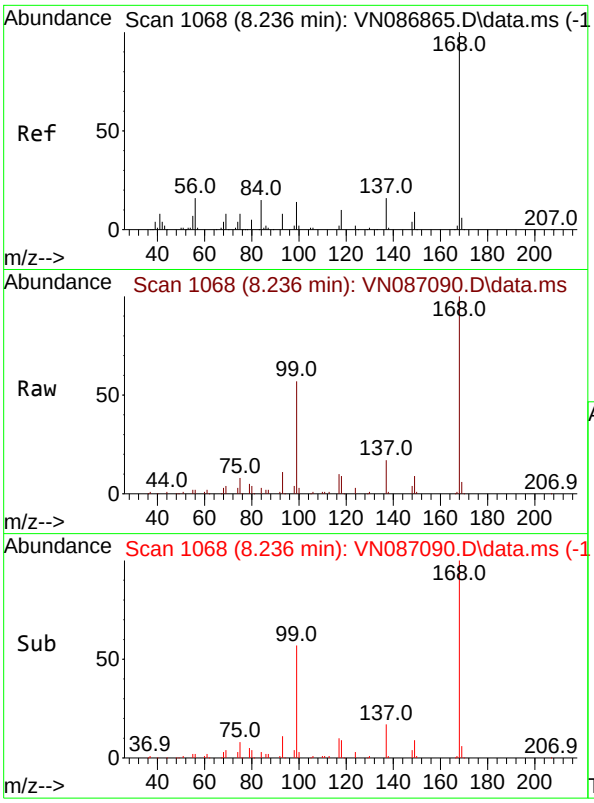
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087090.D
Acq On : 18 Jun 2025 16:52
Operator : JC\MD
Sample : Q2329-14
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
DUP04-20250613

Quant Time: Jun 19 01:31:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



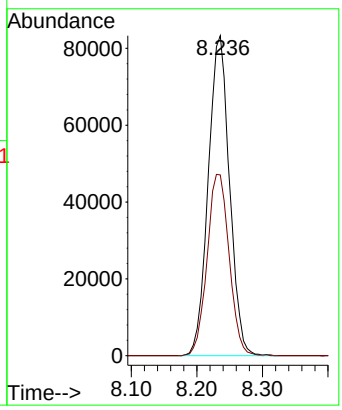


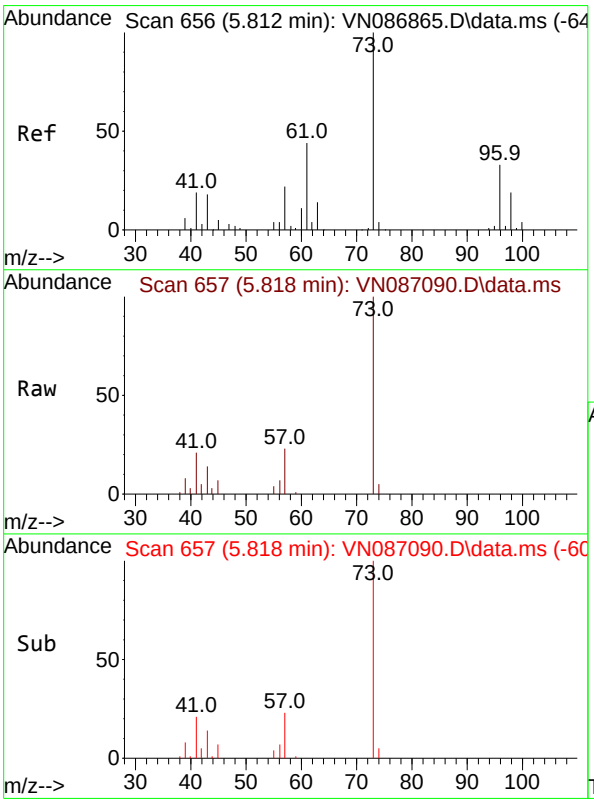
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Instrument :
MSVOA_N
ClientSampleId :
DUP04-20250613

Tgt Ion:168 Resp: 187618

Ion	Ratio	Lower	Upper
168	100		
99	56.5	49.1	73.7

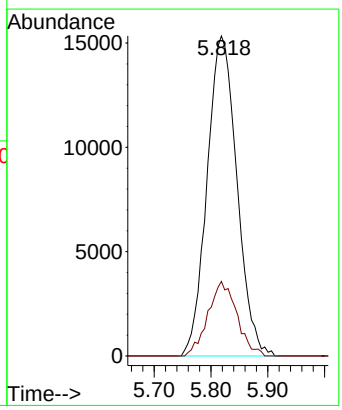


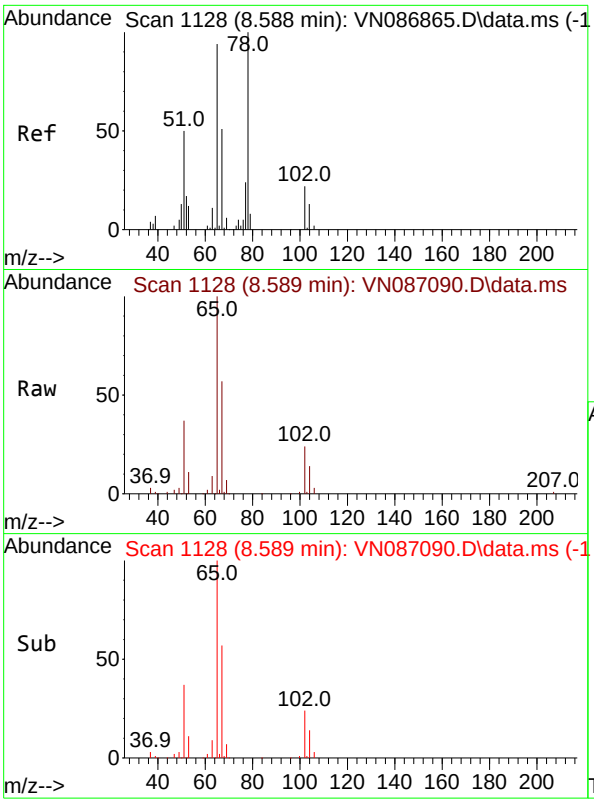


#19
Methyl tert-butyl Ether
Concen: 7.407 ug/l
RT: 5.818 min Scan# 657
Delta R.T. 0.006 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Tgt Ion: 73 Resp: 56006

Ion	Ratio	Lower	Upper
73	100		
57	23.3	17.4	26.2



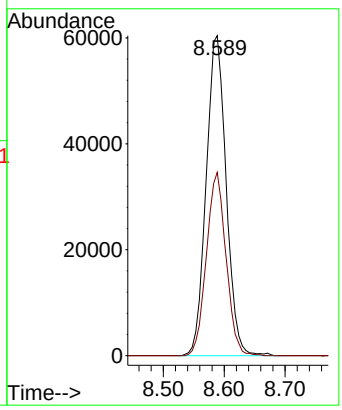


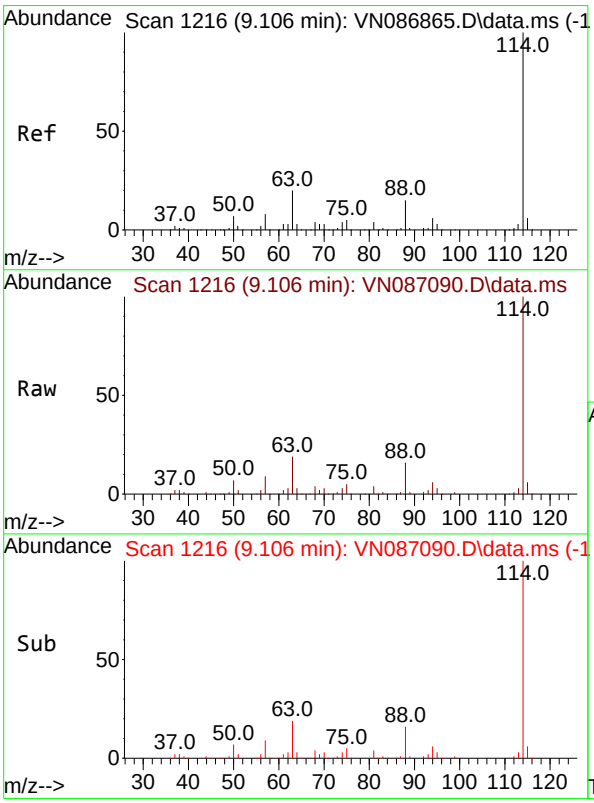
#33
1,2-Dichloroethane-d4
Concen: 54.913 ug/l
RT: 8.589 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Instrument :
MSVOA_N
ClientSampleId :
DUP04-20250613

Tgt Ion: 65 Resp: 137942

Ion	Ratio	Lower	Upper
65	100		
67	56.1	0.0	105.6

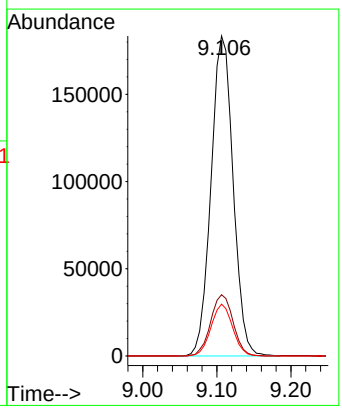


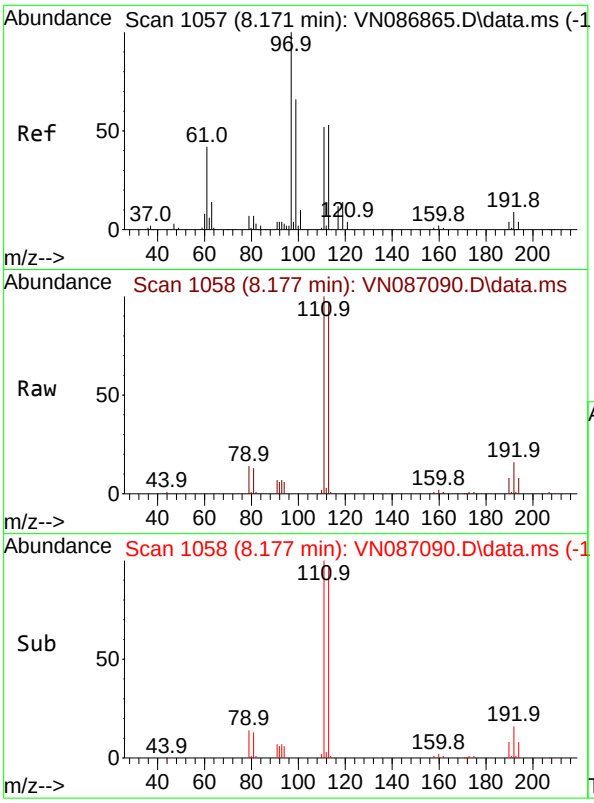


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Tgt Ion:114 Resp: 379825

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	39.6
88	16.2	0.0	30.2



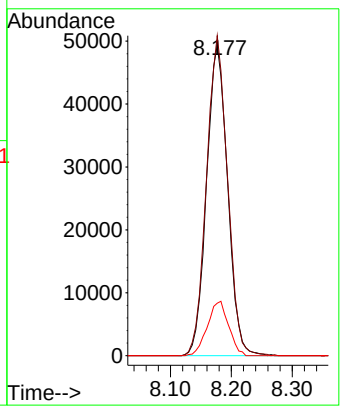


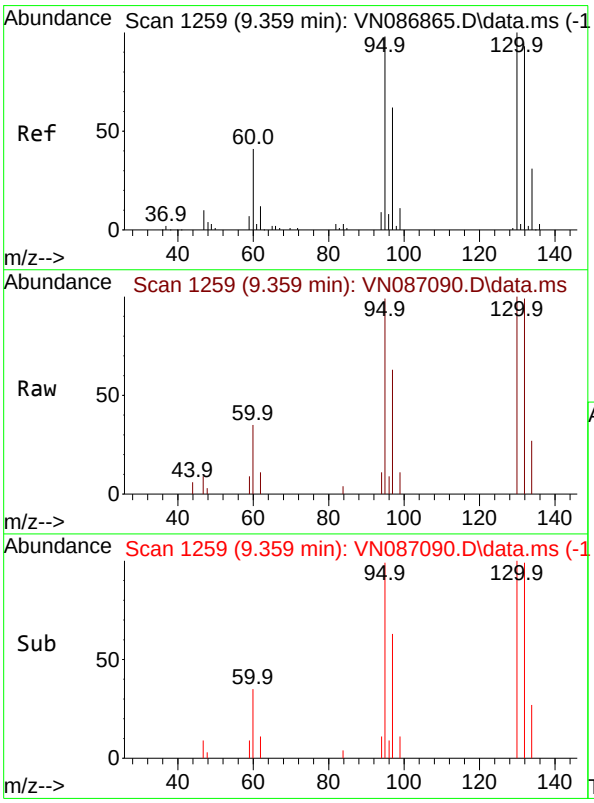
#35
Dibromofluoromethane
Concen: 52.635 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Instrument :
MSVOA_N
ClientSampleId :
DUP04-20250613

Tgt Ion:113 Resp: 118477

Ion	Ratio	Lower	Upper
113	100		
111	103.0	84.2	126.2
192	17.7	14.2	21.4

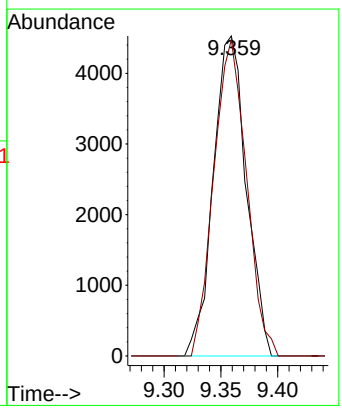


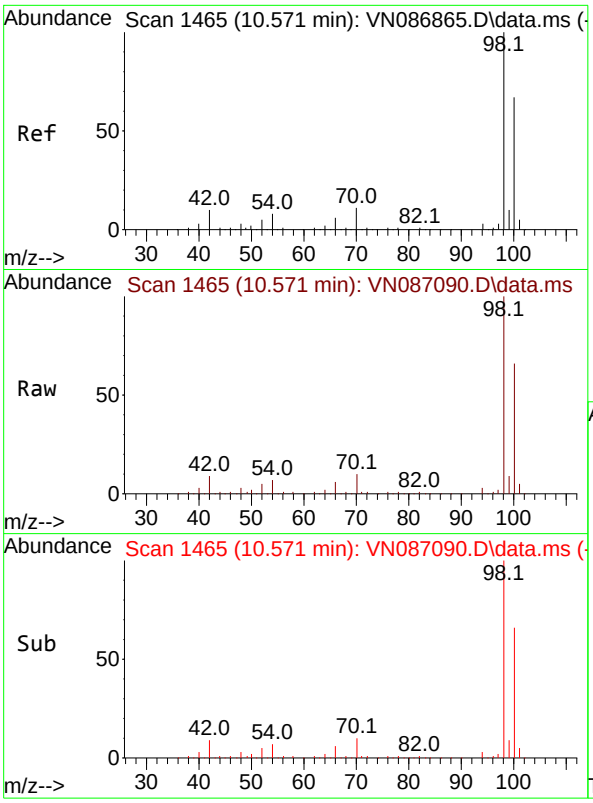


#44
Trichloroethene
Concen: 3.523 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Tgt Ion:130 Resp: 9162

Ion	Ratio	Lower	Upper
130	100		
95	98.9	0.0	196.2



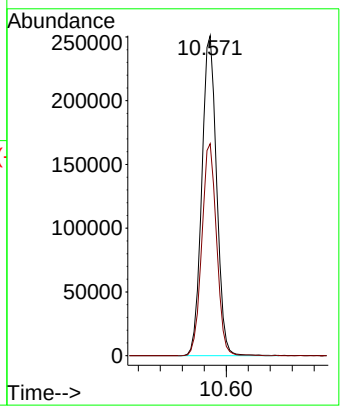


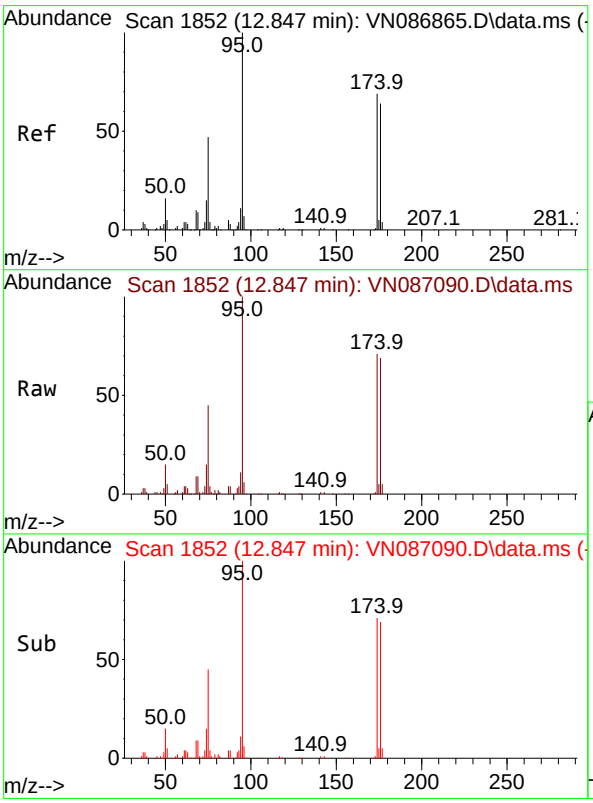
#50
Toluene-d8
Concen: 52.538 ug/l
RT: 10.571 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Instrument :
MSVOA_N
ClientSampleId :
DUP04-20250613

Tgt Ion: 98 Resp: 468161

Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.4	80.0

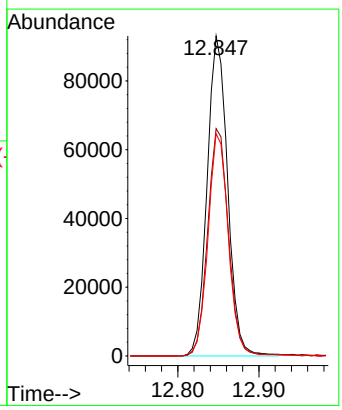


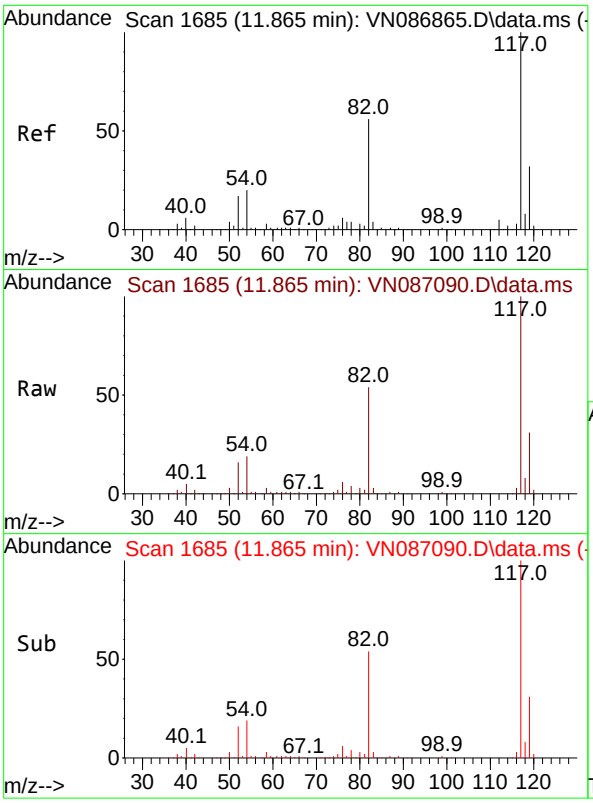


#62
4-Bromofluorobenzene
Concen: 49.226 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Tgt Ion: 95 Resp: 162968

Ion	Ratio	Lower	Upper
95	100		
174	72.7	0.0	141.8
176	69.2	0.0	132.6



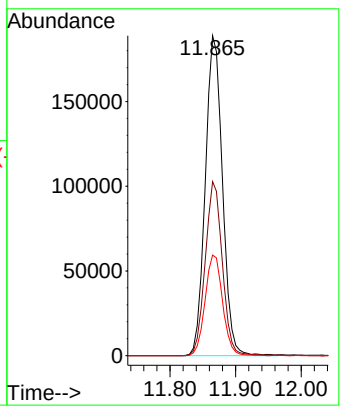


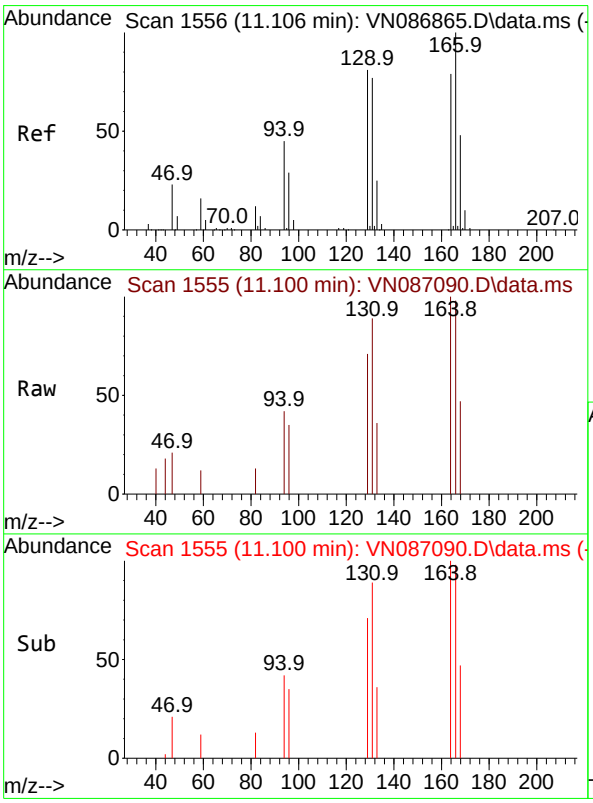
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Instrument :
MSVOA_N
ClientSampleId :
DUP04-20250613

Tgt Ion:117 Resp: 344732

Ion	Ratio	Lower	Upper
117	100		
82	54.4	44.6	67.0
119	31.5	25.5	38.3

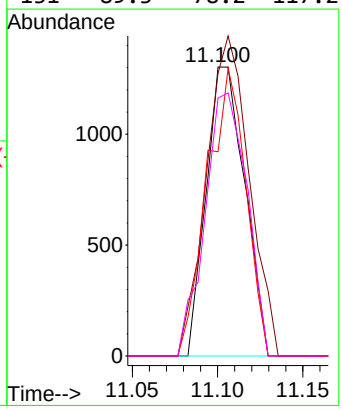


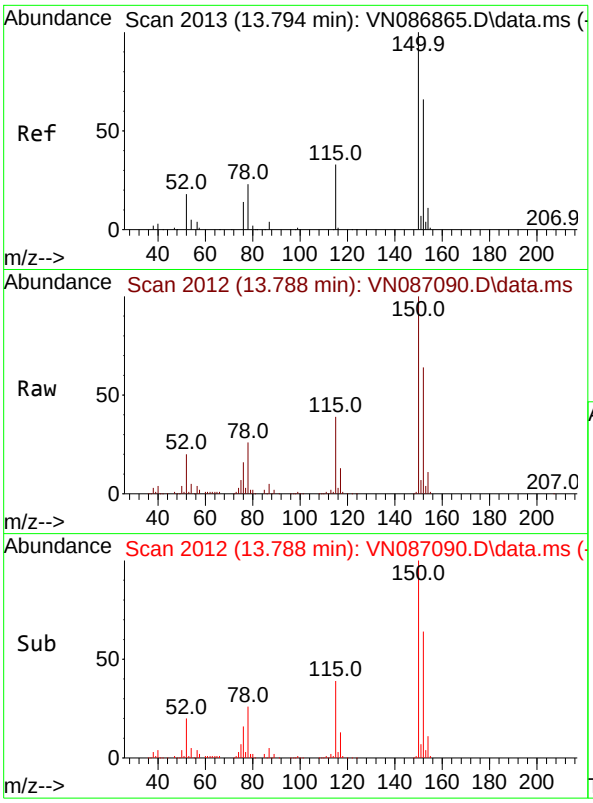


#64
Tetrachloroethene
Concen: 0.939 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.006 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Tgt Ion:164 Resp: 2049

Ion	Ratio	Lower	Upper
164	100		
166	97.8	101.8	152.8#
129	70.7	83.0	124.4#
131	89.3	78.2	117.2



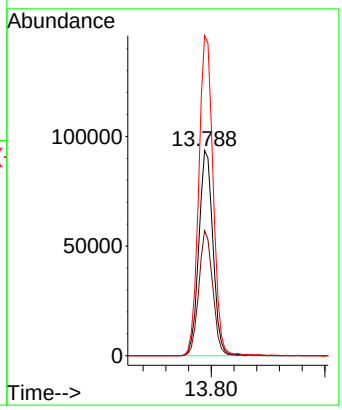


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087090.D
Acq: 18 Jun 2025 16:52

Instrument :
MSVOA_N
ClientSampleId :
DUP04-20250613

Tgt Ion:152 Resp: 162129

Ion	Ratio	Lower	Upper
152	100		
115	59.9	30.1	90.5
150	158.4	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	EB01-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-15	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087103.D	1		06/19/25 10:47	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	11.6		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	1.50		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	EB01-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-15	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087103.D	1		06/19/25 10:47	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.9		81 - 118		114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		80 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	53.1		89 - 112		106%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	168000	8.23				
540-36-3	1,4-Difluorobenzene	340000	9.106				
3114-55-4	Chlorobenzene-d5	308000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	141000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	EB01-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-15	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087103.D	1		06/19/25 10:47	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061925\
Data File : VN087103.D
Acq On : 19 Jun 2025 10:47
Operator : JC\MD
Sample : Q2329-15
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EB01-20250613

Quant Time: Jun 20 01:21:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

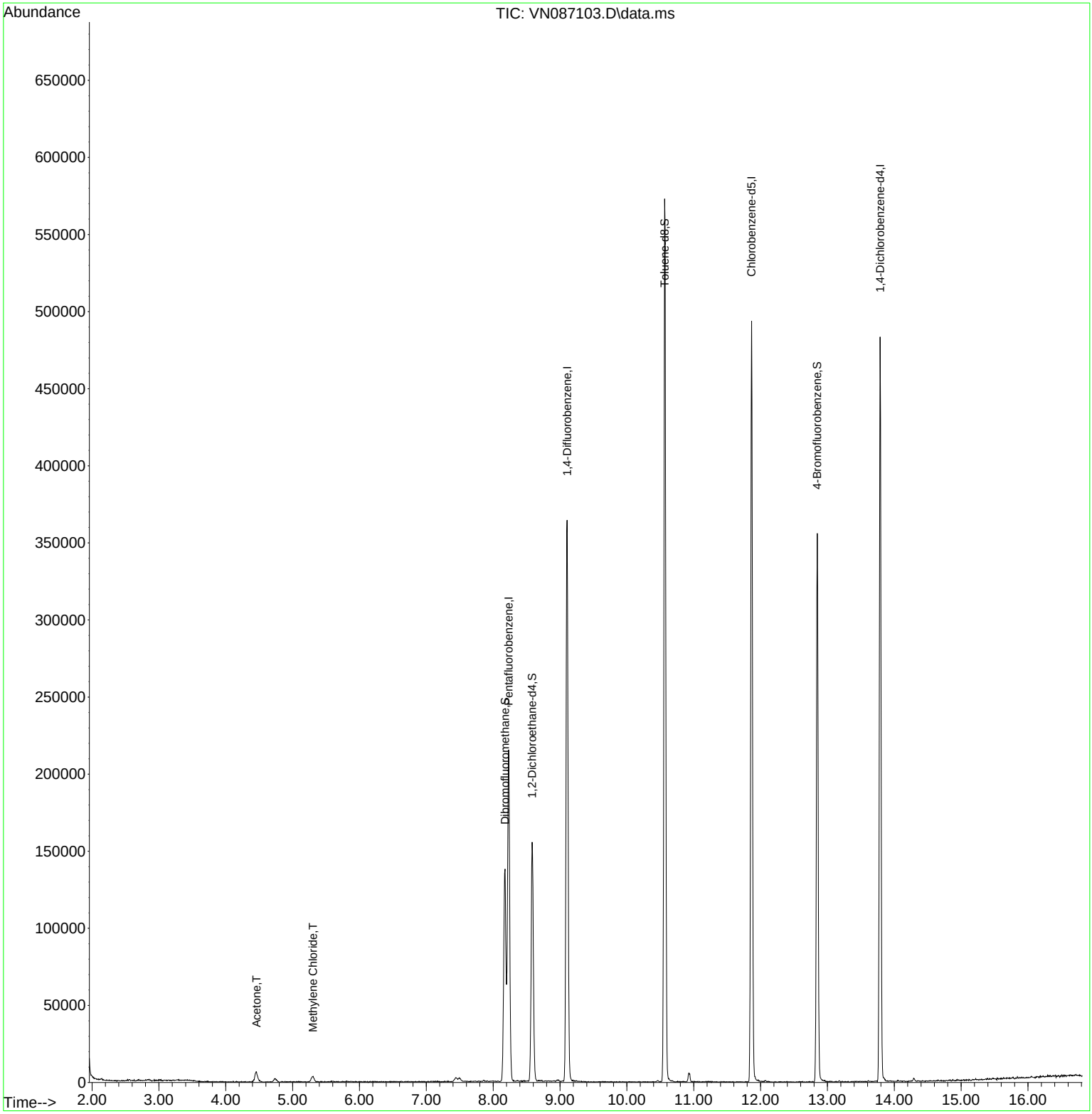
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	167515	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	339842	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	308249	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	141080	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	127623	56.902	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.800%			
35) Dibromofluoromethane	8.177	113	107337	53.296	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.600%			
50) Toluene-d8	10.565	98	423645	53.136	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.280%			
62) 4-Bromofluorobenzene	12.847	95	144889	48.914	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.820%			
Target Compounds						Qvalue
16) Acetone	4.459	43	13800	11.603	ug/l	96
20) Methylene Chloride	5.306	84	3318	1.490	ug/l	84

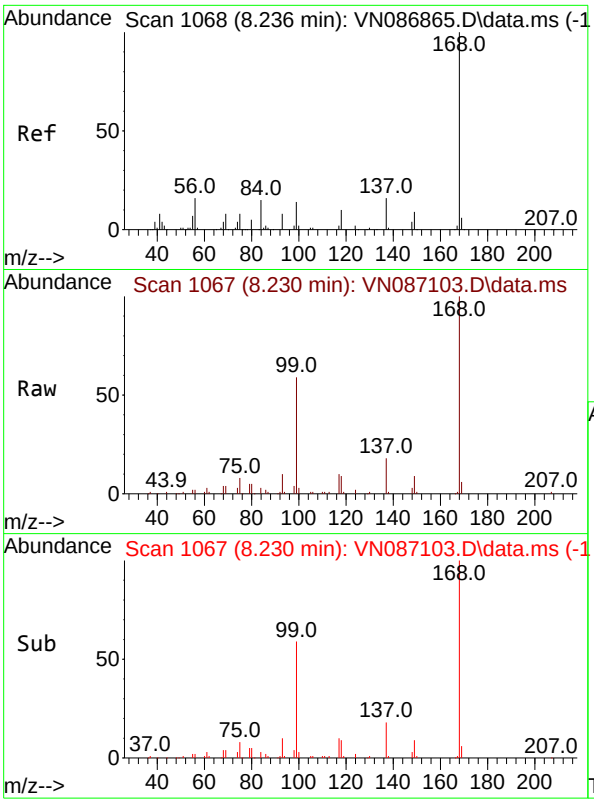
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087103.D
Acq On : 19 Jun 2025 10:47
Operator : JC\MD
Sample : Q2329-15
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EB01-20250613

Quant Time: Jun 20 01:21:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



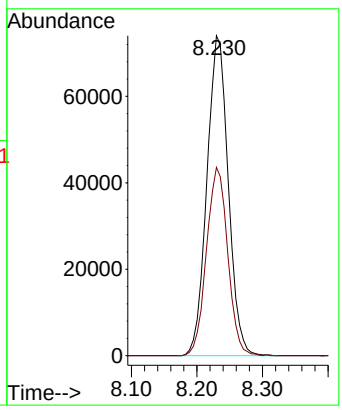


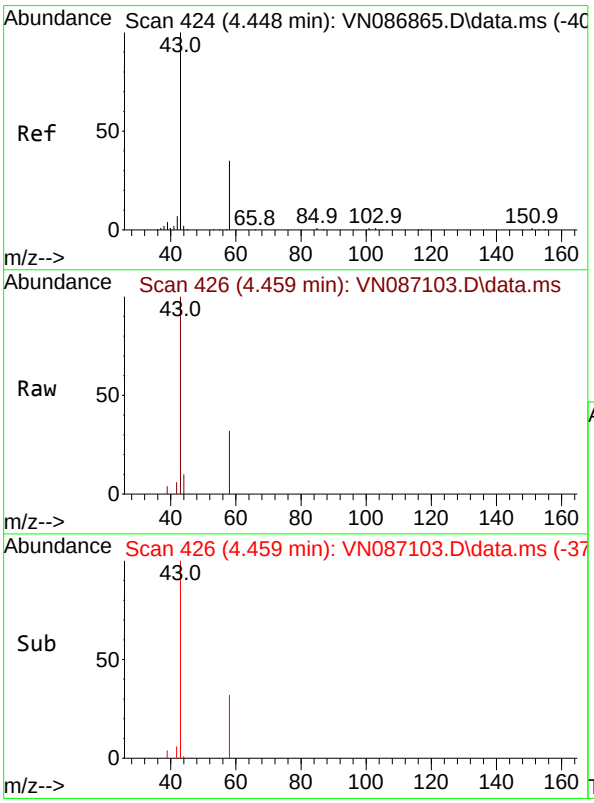
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087103.D
Acq: 19 Jun 2025 10:47

Instrument :
MSVOA_N
ClientSampleId :
EB01-20250613

Tgt Ion:168 Resp: 167515

Ion	Ratio	Lower	Upper
168	100		
99	58.9	49.1	73.7

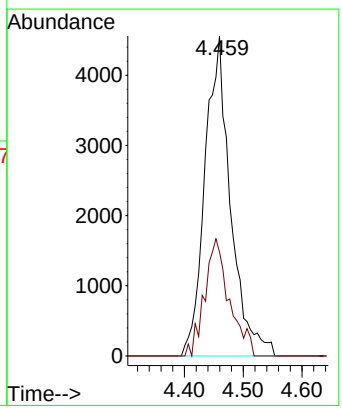


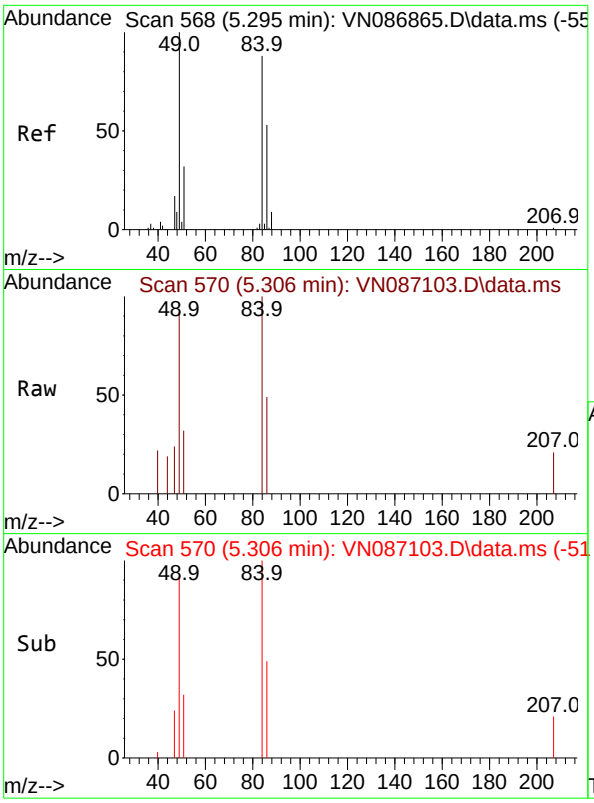


#16
Acetone
Concen: 11.603 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.012 min
Lab File: VN087103.D
Acq: 19 Jun 2025 10:47

Tgt Ion: 43 Resp: 13800

Ion	Ratio	Lower	Upper
43	100		
58	32.5	28.0	42.0



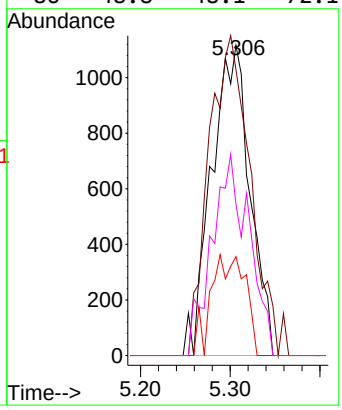


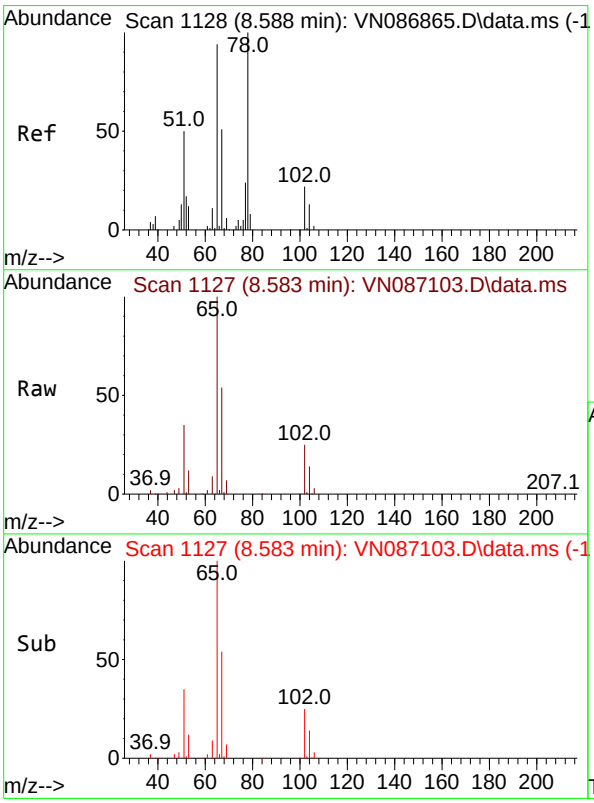
#20
Methylene Chloride
Concen: 1.490 ug/l
RT: 5.306 min Scan# 5
Delta R.T. 0.012 min
Lab File: VN087103.D
Acq: 19 Jun 2025 10:47

Instrument :
MSVOA_N
ClientSampleId :
EB01-20250613

Tgt Ion: 84 Resp: 3318

Ion	Ratio	Lower	Upper
84	100		
49	92.2	90.5	135.7
51	31.9	28.5	42.7
86	48.8	48.1	72.1

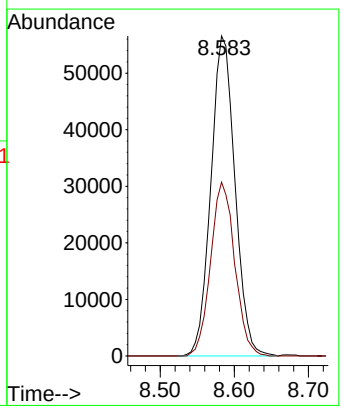


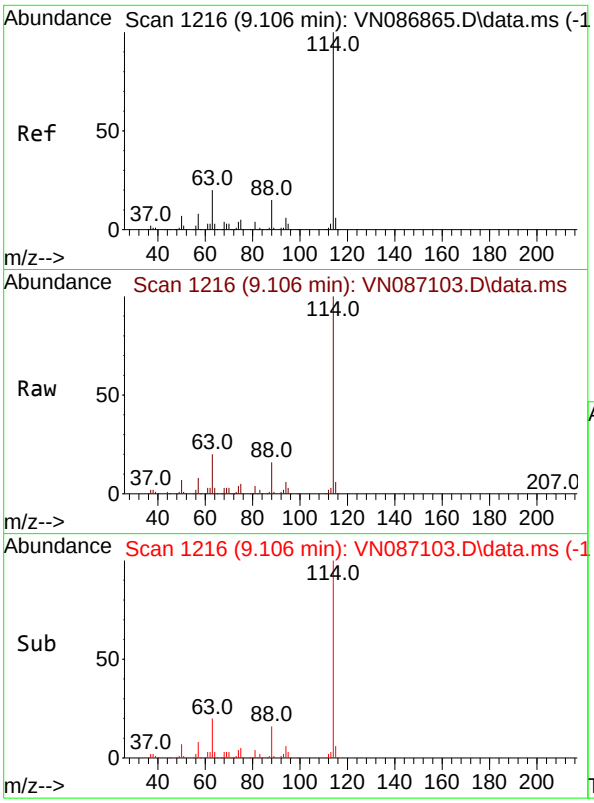


#33
1,2-Dichloroethane-d4
Concen: 56.902 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087103.D
Acq: 19 Jun 2025 10:47

Tgt Ion: 65 Resp: 127623

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.6



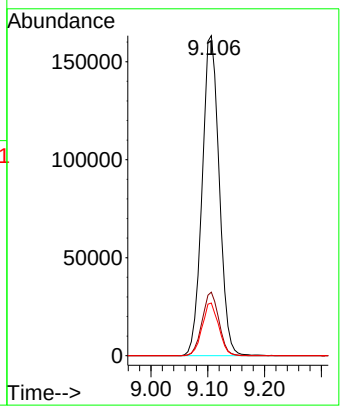


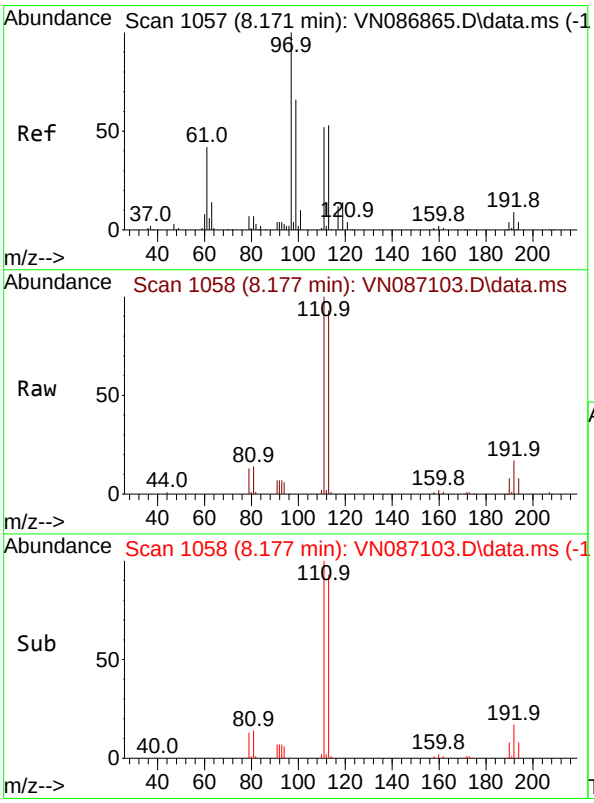
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087103.D
Acq: 19 Jun 2025 10:47

Instrument :
MSVOA_N
ClientSampleId :
EB01-20250613

Tgt Ion:114 Resp: 339842

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.6
88	16.4	0.0	30.2

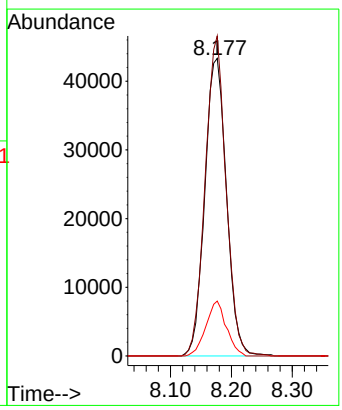


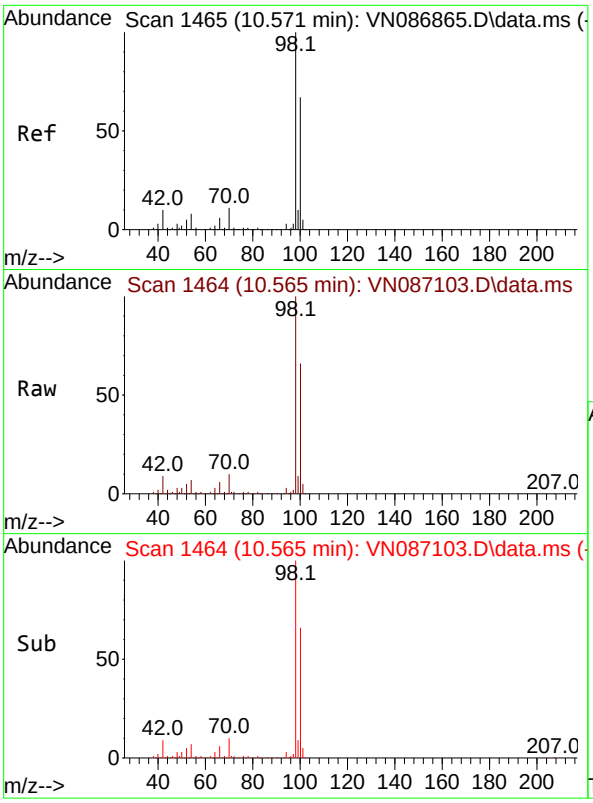


#35
Dibromofluoromethane
Concen: 53.296 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087103.D
Acq: 19 Jun 2025 10:47

Tgt Ion:113 Resp: 107337

Ion	Ratio	Lower	Upper
113	100		
111	103.1	84.2	126.2
192	17.4	14.2	21.4



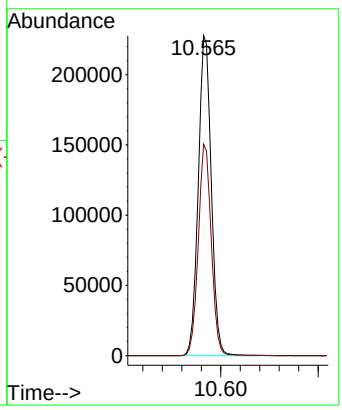


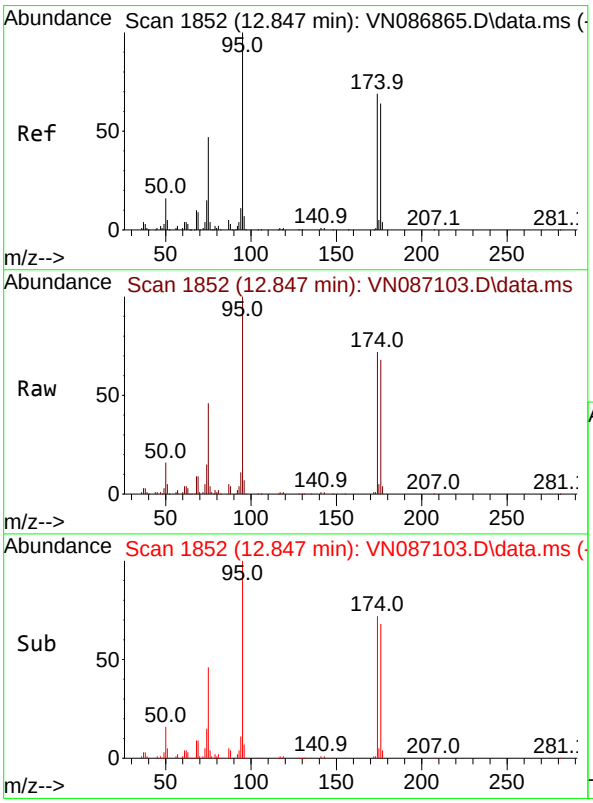
#50
Toluene-d8
Concen: 53.136 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN087103.D
Acq: 19 Jun 2025 10:47

Instrument :
MSVOA_N
ClientSampleId :
EB01-20250613

Tgt Ion: 98 Resp: 423645

Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.4	80.0

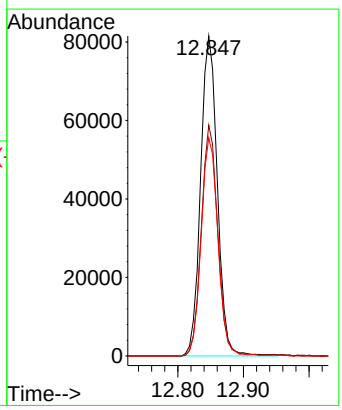


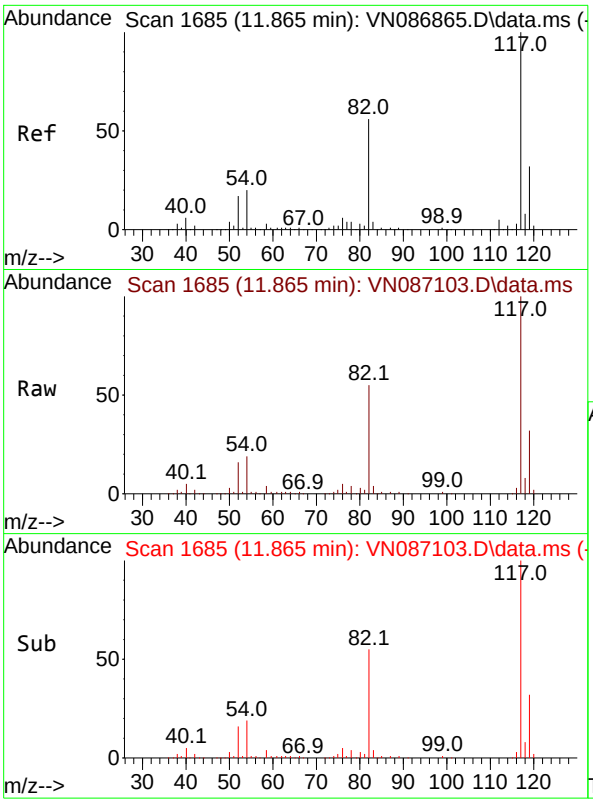


#62
4-Bromofluorobenzene
Concen: 48.914 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087103.D
Acq: 19 Jun 2025 10:47

Tgt Ion: 95 Resp: 144889

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	141.8
176	68.2	0.0	132.6



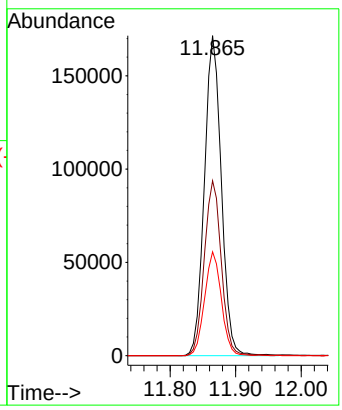


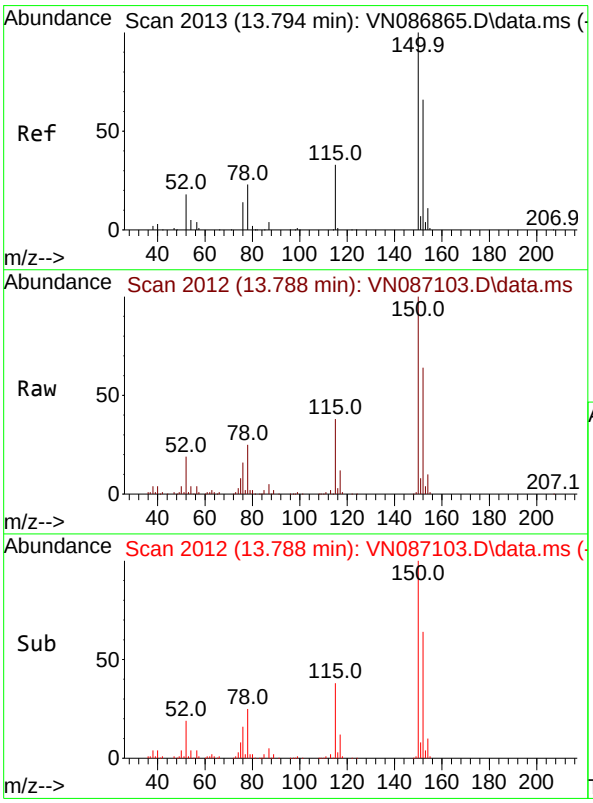
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087103.D
Acq: 19 Jun 2025 10:47

Instrument :
MSVOA_N
ClientSampleId :
EB01-20250613

Tgt Ion:117 Resp: 308249

Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.6	67.0
119	32.4	25.5	38.3

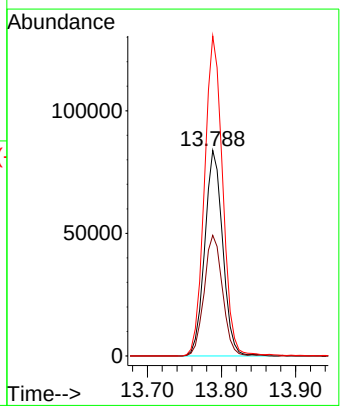




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087103.D
Acq: 19 Jun 2025 10:47

Tgt Ion:152 Resp: 141080

Ion	Ratio	Lower	Upper
152	100		
115	60.1	30.1	90.5
150	157.5	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TB01-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-16	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087092.D	1		06/18/25 17:36	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TB01-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-16	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087092.D	1		06/18/25 17:36	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.5		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	52.3		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.3		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	183000	8.235				
540-36-3	1,4-Difluorobenzene	372000	9.106				
3114-55-4	Chlorobenzene-d5	338000	11.864				
3855-82-1	1,4-Dichlorobenzene-d4	158000	13.794				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TB01-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-16	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087092.D	1		06/18/25 17:36	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061825\
Data File : VN087092.D
Acq On : 18 Jun 2025 17:36
Operator : JC\MD
Sample : Q2329-16
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-20250612

Quant Time: Jun 19 01:32:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	182714	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	371831	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	338148	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	158047	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	135814	55.517	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 111.040%			
35) Dibromofluoromethane	8.177	113	116458	52.850	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.700%			
50) Toluene-d8	10.570	98	456639	52.347	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.700%			
62) 4-Bromofluorobenzene	12.847	95	159783	49.301	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.600%			

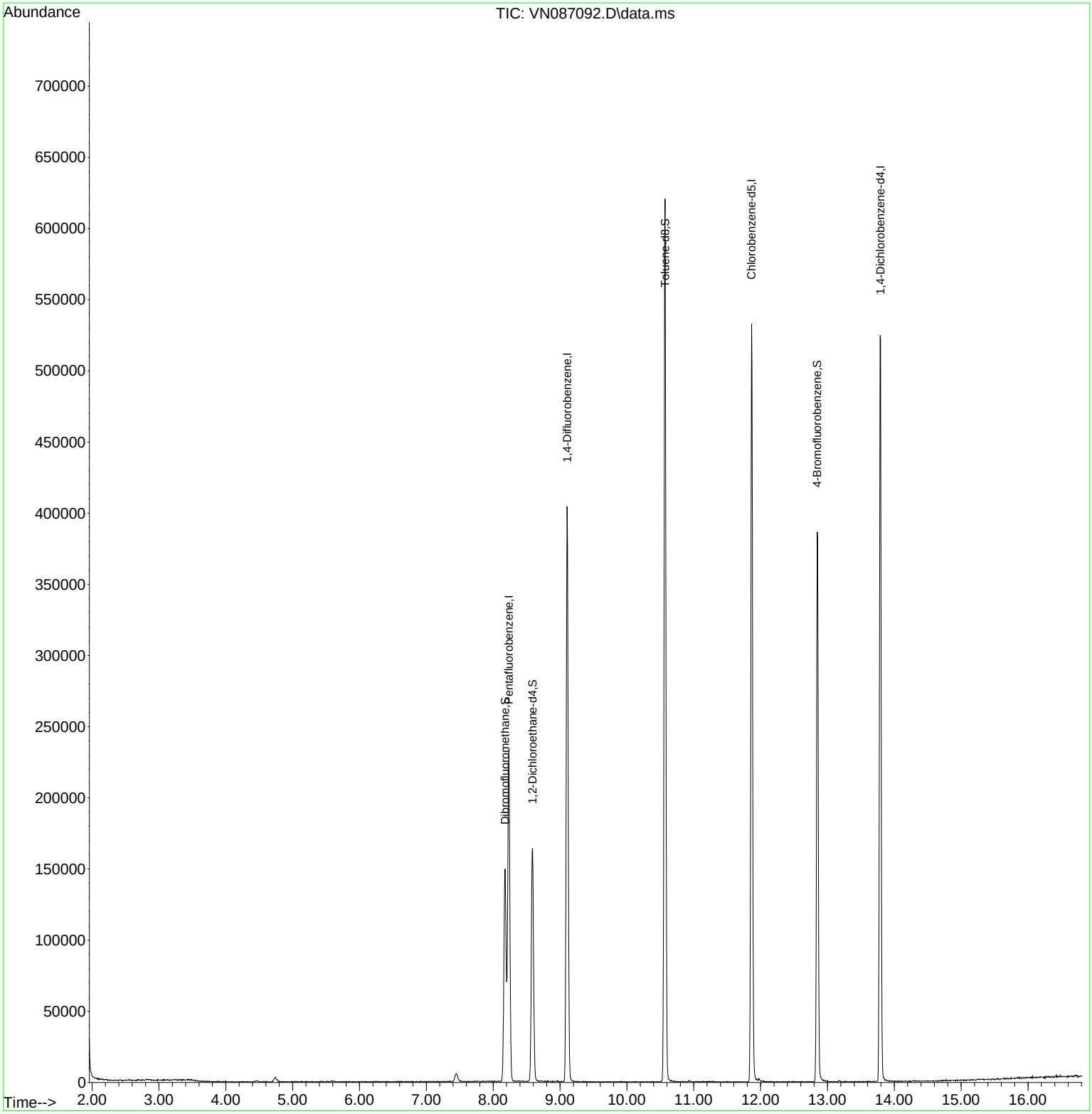
Target Compounds Qvalue

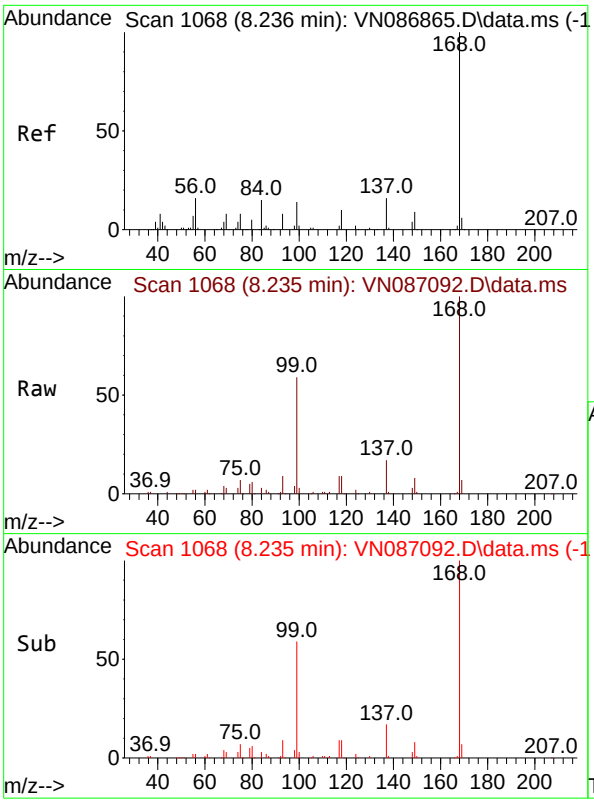
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087092.D
Acq On : 18 Jun 2025 17:36
Operator : JC\MD
Sample : Q2329-16
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-20250612

Quant Time: Jun 19 01:32:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



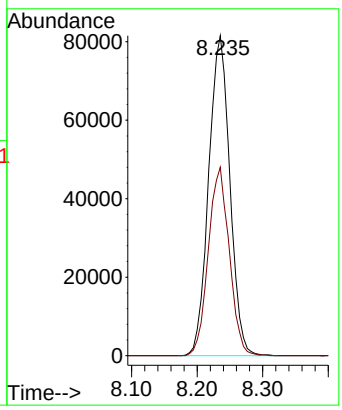


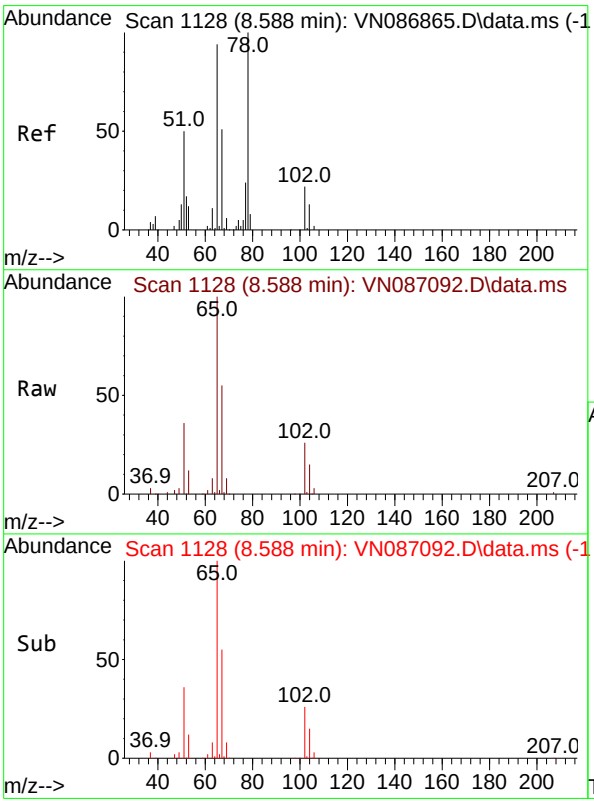
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN087092.D
Acq: 18 Jun 2025 17:36

Instrument :
MSVOA_N
ClientSampleId :
TB01-20250612

Tgt Ion:168 Resp: 182714

Ion	Ratio	Lower	Upper
168	100		
99	58.9	49.1	73.7

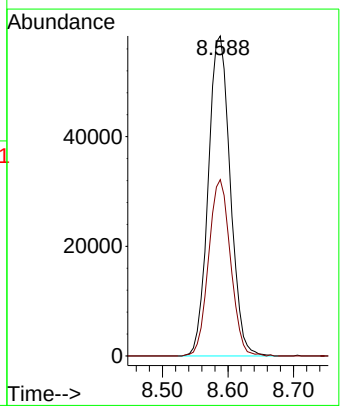


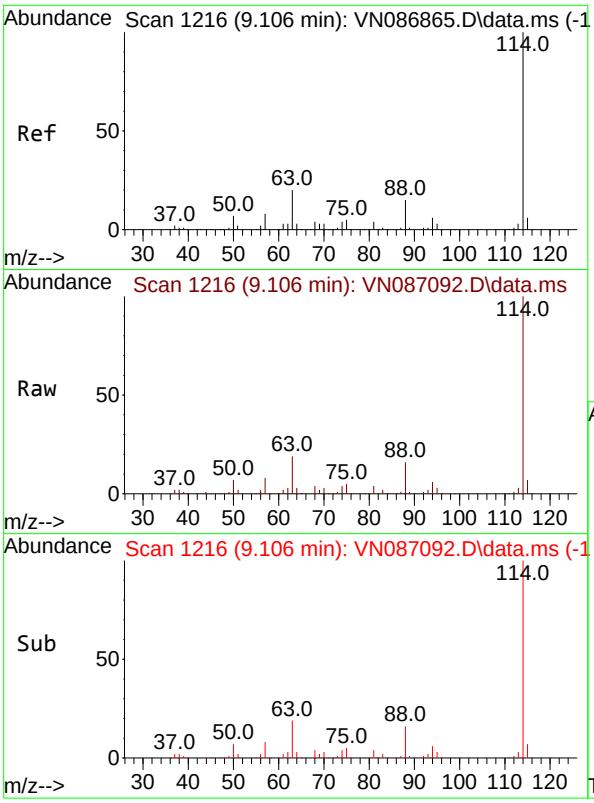


#33
1,2-Dichloroethane-d4
Concen: 55.517 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN087092.D
Acq: 18 Jun 2025 17:36

Tgt Ion: 65 Resp: 135814

Ion	Ratio	Lower	Upper
65	100		
67	54.9	0.0	105.6



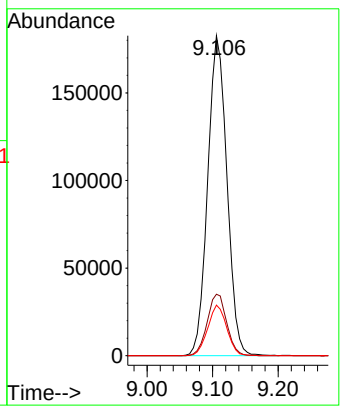


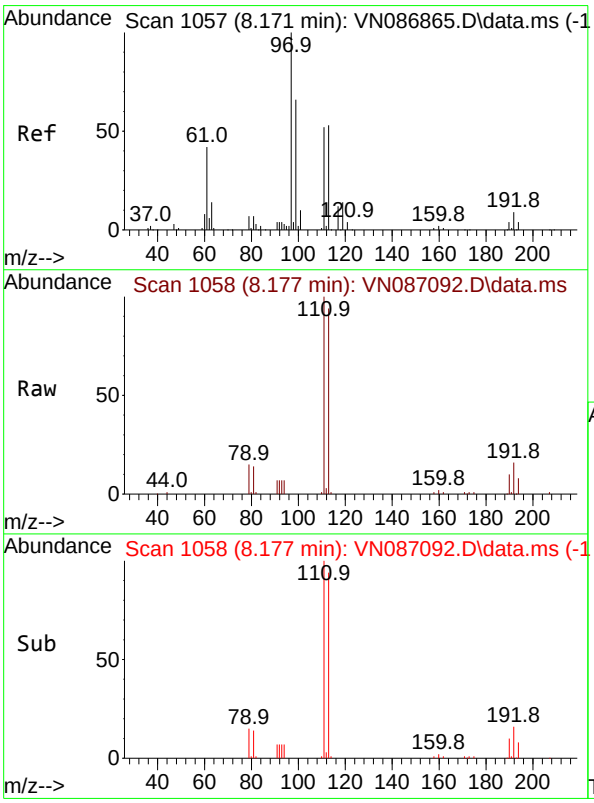
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087092.D
Acq: 18 Jun 2025 17:36

Instrument :
MSVOA_N
ClientSampleId :
TB01-20250612

Tgt Ion:114 Resp: 371831

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	39.6
88	15.8	0.0	30.2

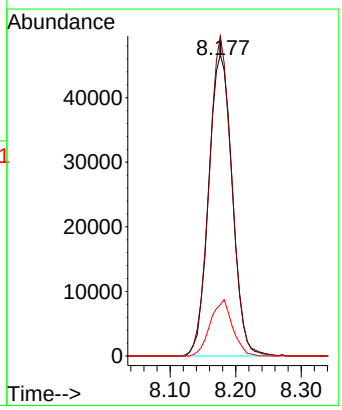


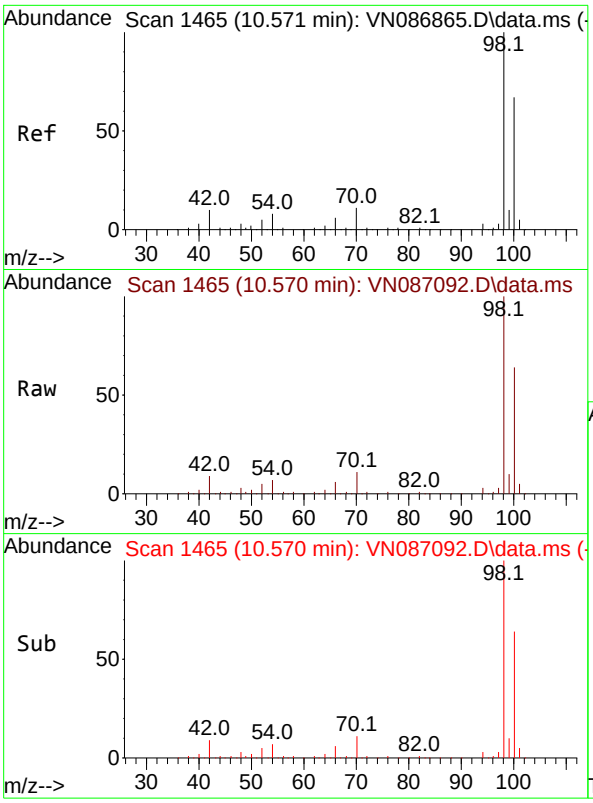


#35
Dibromofluoromethane
Concen: 52.850 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087092.D
Acq: 18 Jun 2025 17:36

Tgt Ion:113 Resp: 116458

Ion	Ratio	Lower	Upper
113	100		
111	102.1	84.2	126.2
192	17.6	14.2	21.4



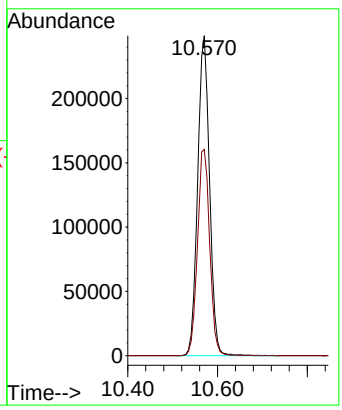


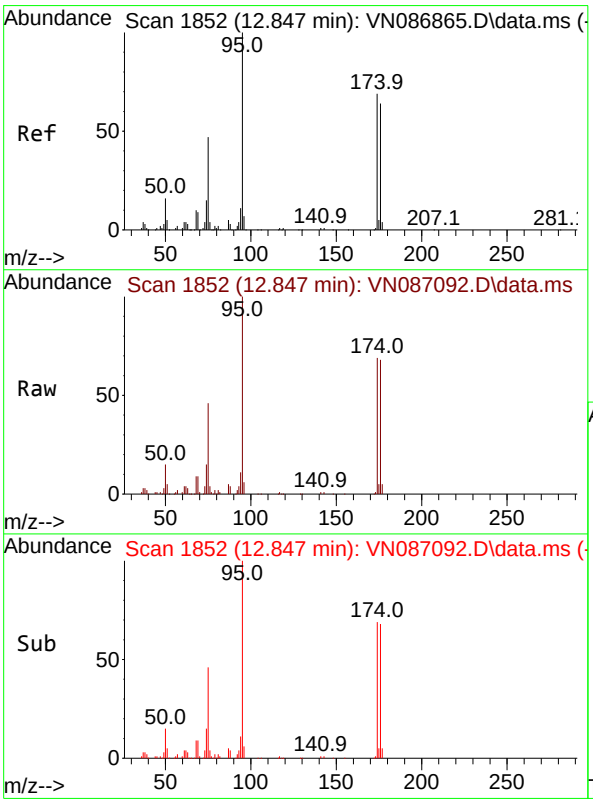
#50
Toluene-d8
Concen: 52.347 ug/l
RT: 10.570 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087092.D
Acq: 18 Jun 2025 17:36

Instrument :
MSVOA_N
ClientSampleId :
TB01-20250612

Tgt Ion: 98 Resp: 456639

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.4	80.0

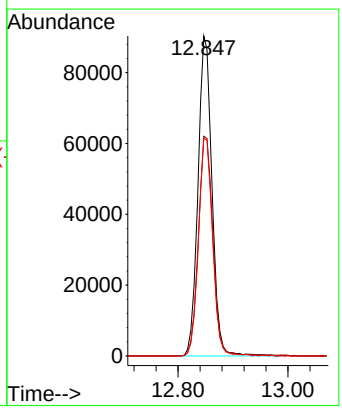


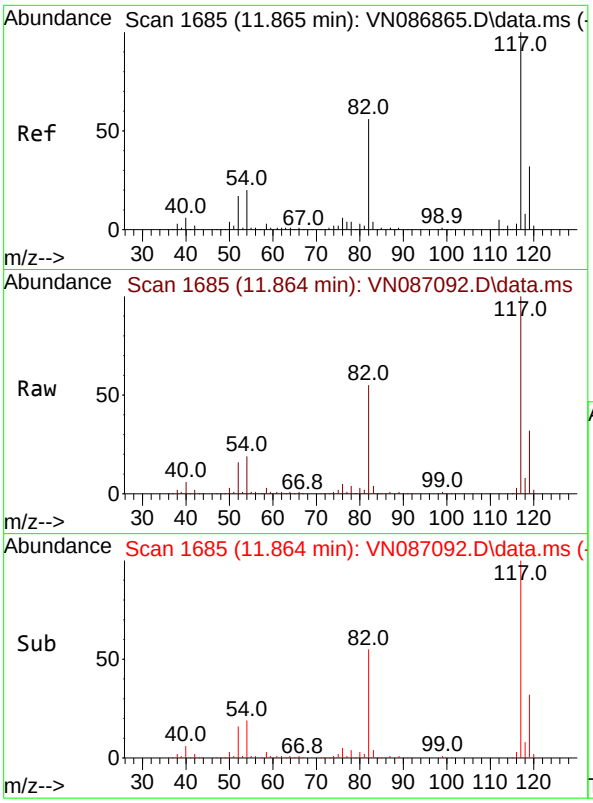


#62
4-Bromofluorobenzene
Concen: 49.301 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087092.D
Acq: 18 Jun 2025 17:36

Tgt Ion: 95 Resp: 159783

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	141.8
176	68.7	0.0	132.6



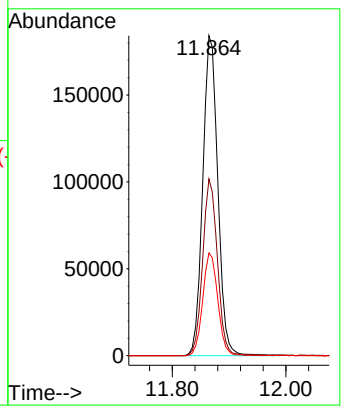


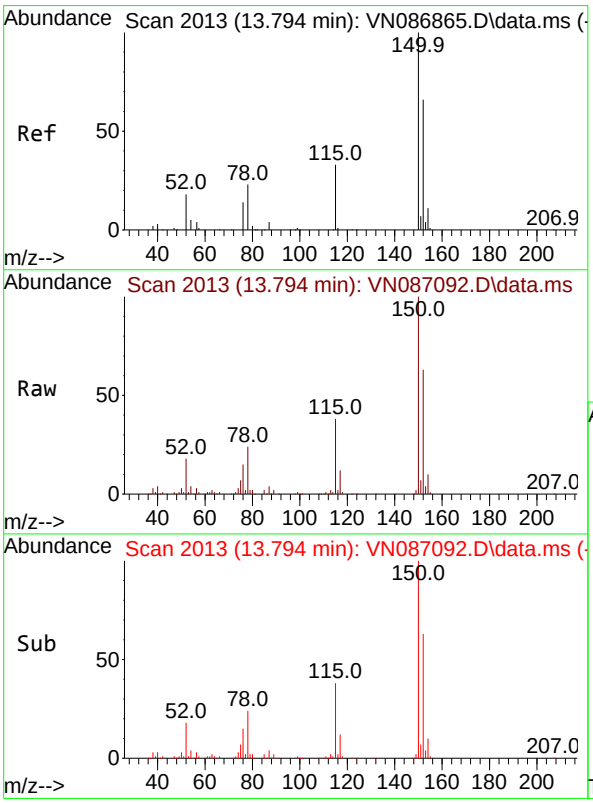
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.864 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087092.D
Acq: 18 Jun 2025 17:36

Instrument :
MSVOA_N
ClientSampleId :
TB01-20250612

Tgt Ion:117 Resp: 338148

Ion	Ratio	Lower	Upper
117	100		
82	55.2	44.6	67.0
119	32.1	25.5	38.3

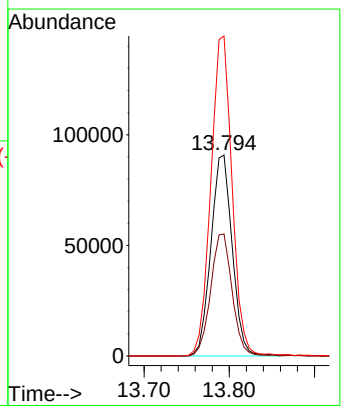




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN087092.D
Acq: 18 Jun 2025 17:36

Tgt Ion:152 Resp: 158047

Ion	Ratio	Lower	Upper
152	100		
115	61.0	30.1	90.5
150	158.5	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TB02-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-17	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087093.D	1		06/18/25 17:57	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TB02-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-17	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087093.D	1		06/18/25 17:57	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.5		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	51.9		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	52.2		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	180000	8.23				
540-36-3	1,4-Difluorobenzene	371000	9.106				
3114-55-4	Chlorobenzene-d5	332000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	154000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TB02-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-17	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087093.D	1		06/18/25 17:57	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061825\
Data File : VN087093.D
Acq On : 18 Jun 2025 17:57
Operator : JC\MD
Sample : Q2329-17
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB02-20250612

Quant Time: Jun 19 01:32:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

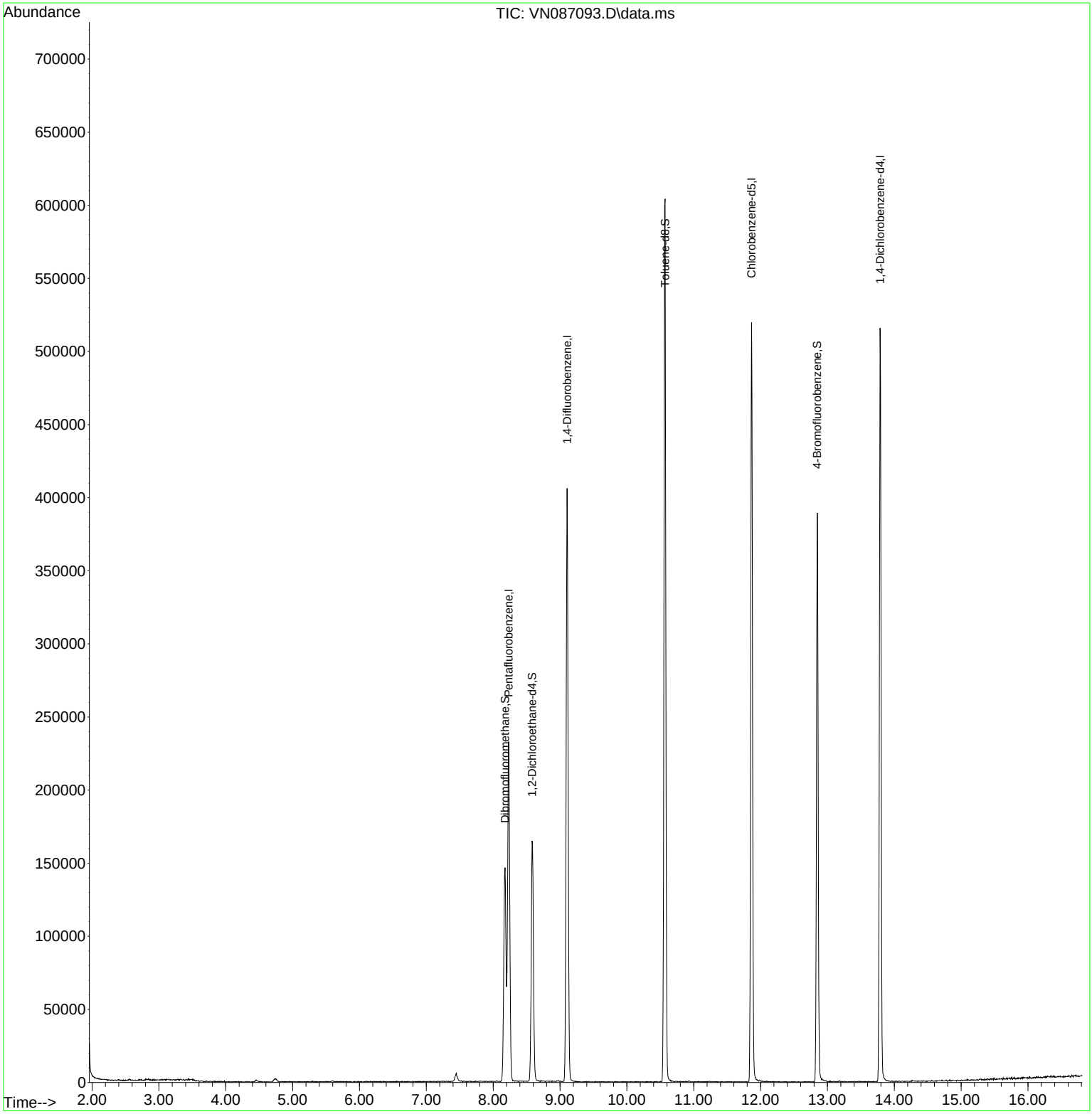
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	179779	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	370663	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	331725	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	154445	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	136079	56.534	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.060%			
35) Dibromofluoromethane	8.177	113	114090	51.939	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.880%			
50) Toluene-d8	10.571	98	453967	52.205	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.400%			
62) 4-Bromofluorobenzene	12.847	95	158180	48.960	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.920%			
Target Compounds						Qvalue

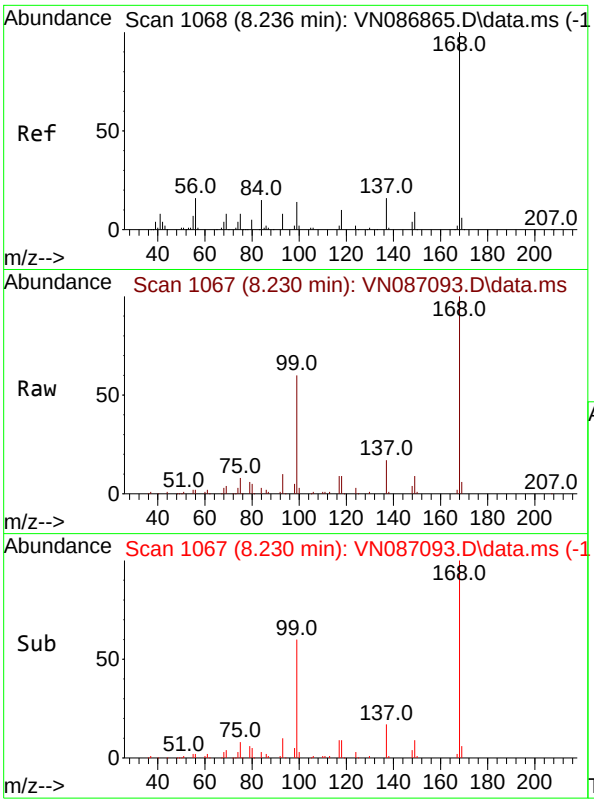
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087093.D
Acq On : 18 Jun 2025 17:57
Operator : JC\MD
Sample : Q2329-17
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB02-20250612

Quant Time: Jun 19 01:32:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



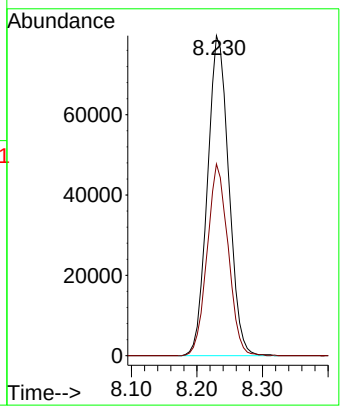


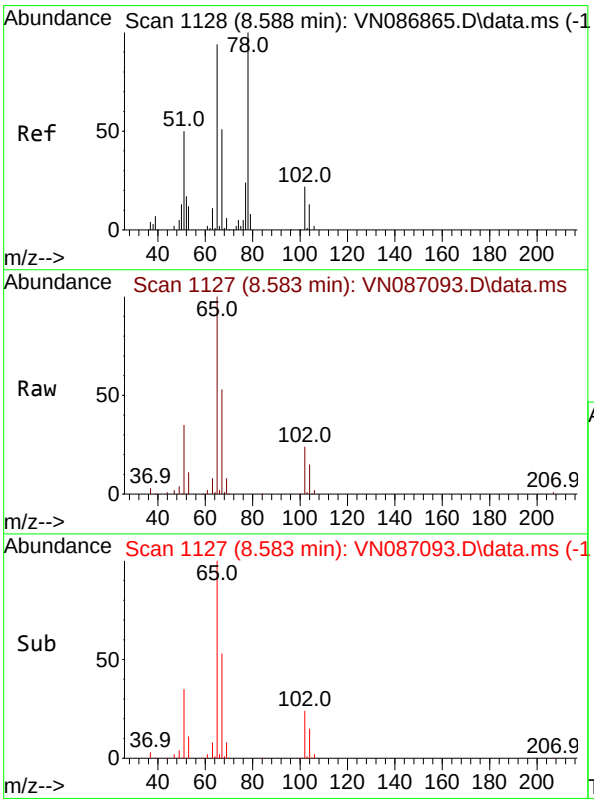
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087093.D
Acq: 18 Jun 2025 17:57

Instrument :
MSVOA_N
ClientSampleId :
TB02-20250612

Tgt Ion:168 Resp: 179779

Ion	Ratio	Lower	Upper
168	100		
99	59.9	49.1	73.7

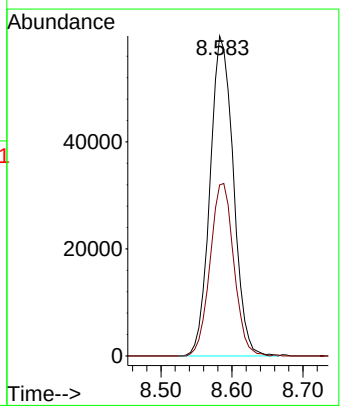


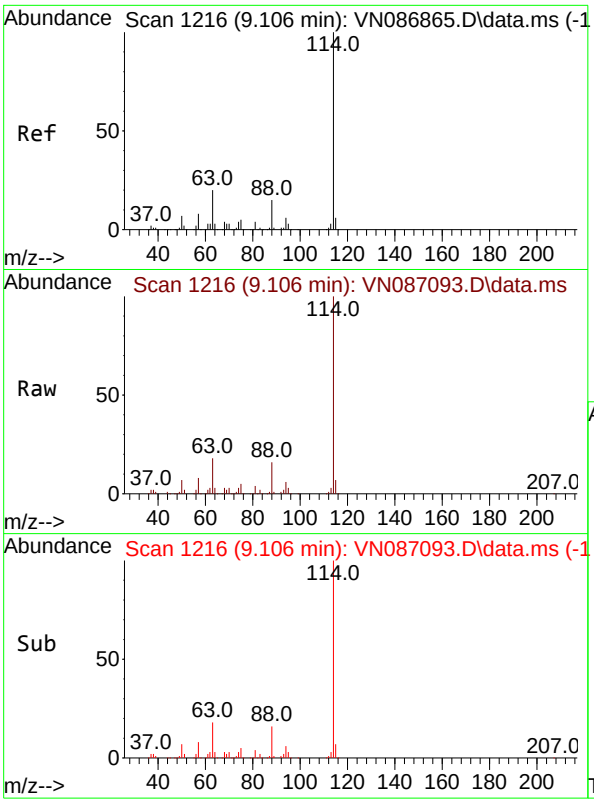


#33
1,2-Dichloroethane-d4
Concen: 56.534 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087093.D
Acq: 18 Jun 2025 17:57

Tgt Ion: 65 Resp: 136079

Ion	Ratio	Lower	Upper
65	100		
67	54.9	0.0	105.6



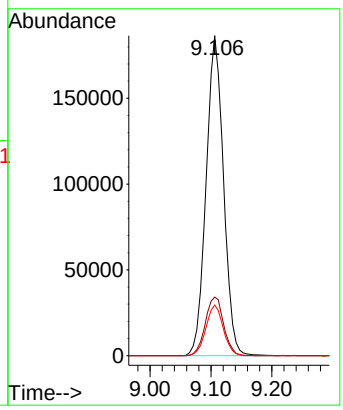


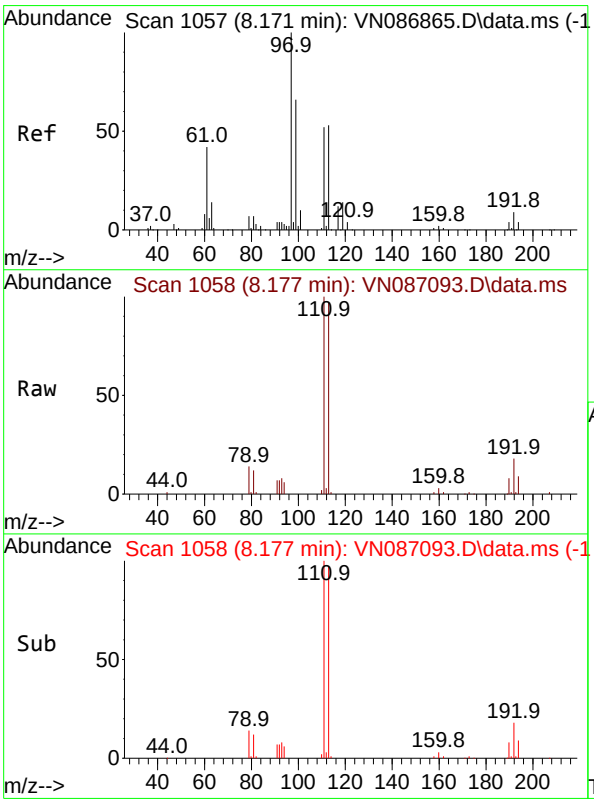
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087093.D
Acq: 18 Jun 2025 17:57

Instrument :
MSVOA_N
ClientSampleId :
TB02-20250612

Tgt Ion:114 Resp: 370663

Ion	Ratio	Lower	Upper
114	100		
63	18.3	0.0	39.6
88	15.8	0.0	30.2

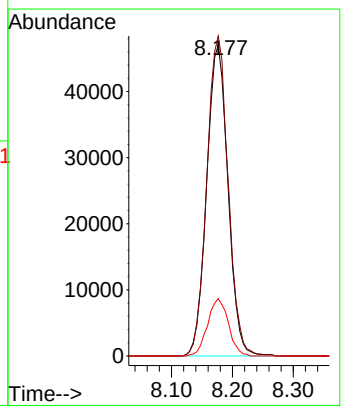


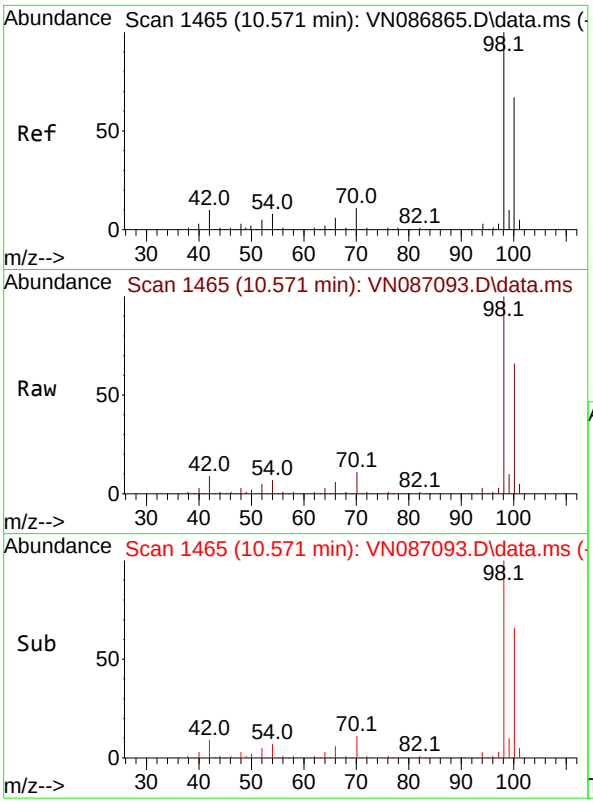


#35
Dibromofluoromethane
Concen: 51.939 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087093.D
Acq: 18 Jun 2025 17:57

Tgt Ion:113 Resp: 114090

Ion	Ratio	Lower	Upper
113	100		
111	103.4	84.2	126.2
192	18.0	14.2	21.4



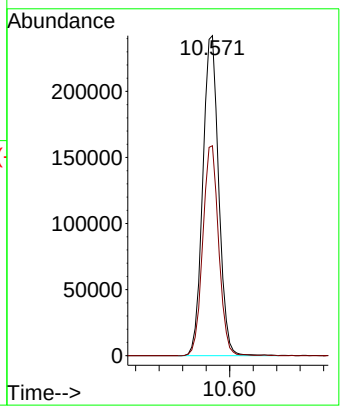


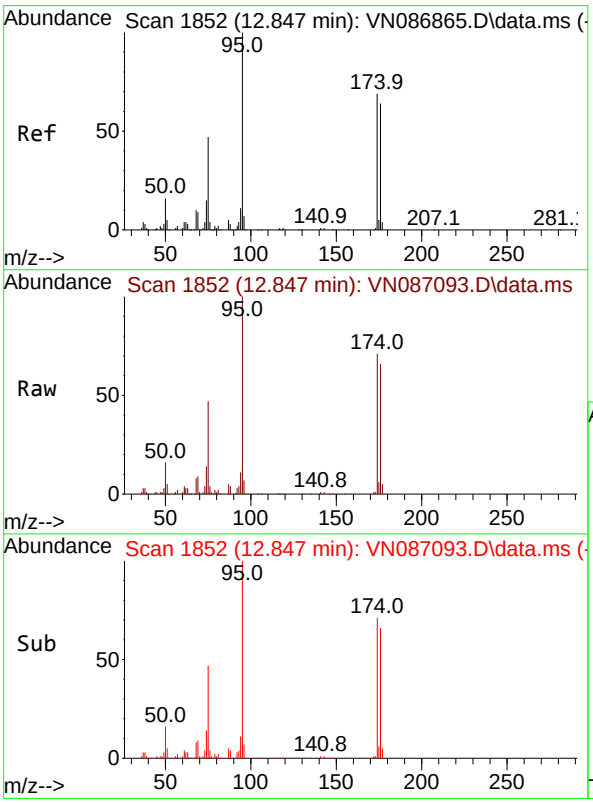
#50
Toluene-d8
Concen: 52.205 ug/l
RT: 10.571 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN087093.D
Acq: 18 Jun 2025 17:57

Instrument :
MSVOA_N
ClientSampleId :
TB02-20250612

Tgt Ion: 98 Resp: 453967

Ion	Ratio	Lower	Upper
98	100		
100	65.6	53.4	80.0

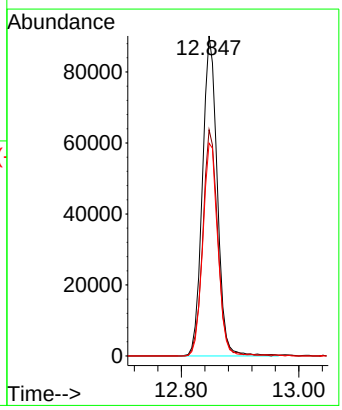


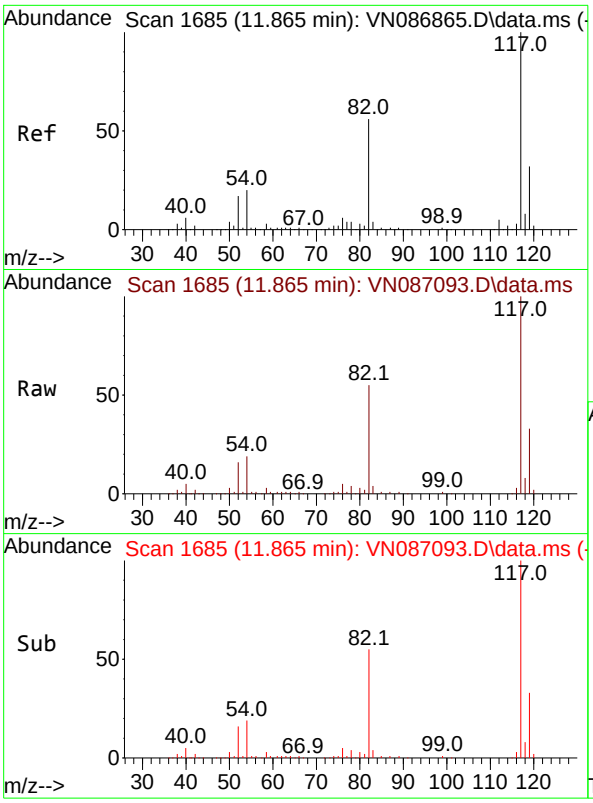


#62
4-Bromofluorobenzene
Concen: 48.960 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087093.D
Acq: 18 Jun 2025 17:57

Tgt Ion: 95 Resp: 158180

Ion	Ratio	Lower	Upper
95	100		
174	71.0	0.0	141.8
176	67.2	0.0	132.6



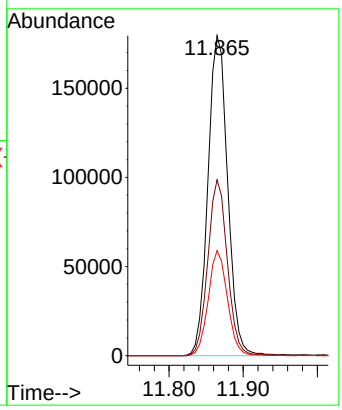


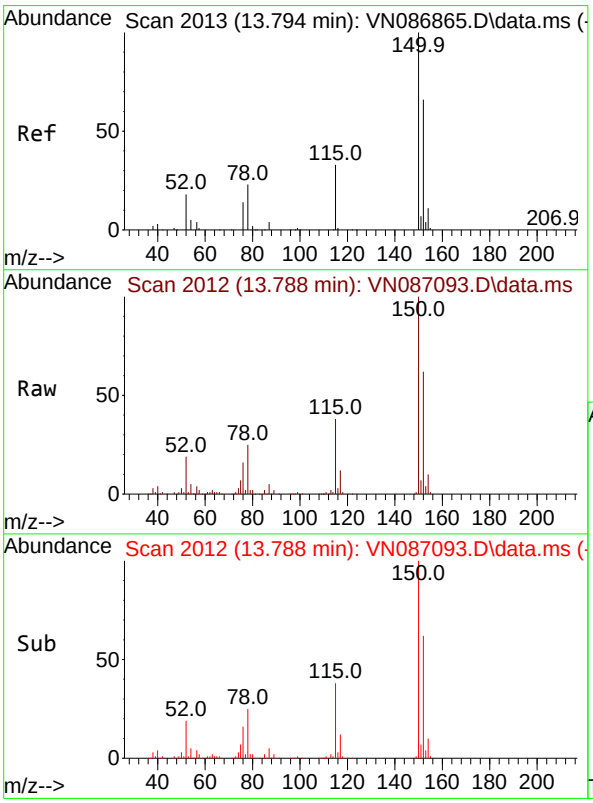
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087093.D
Acq: 18 Jun 2025 17:57

Instrument :
MSVOA_N
ClientSampleId :
TB02-20250612

Tgt Ion:117 Resp: 331725

Ion	Ratio	Lower	Upper
117	100		
82	54.9	44.6	67.0
119	32.9	25.5	38.3

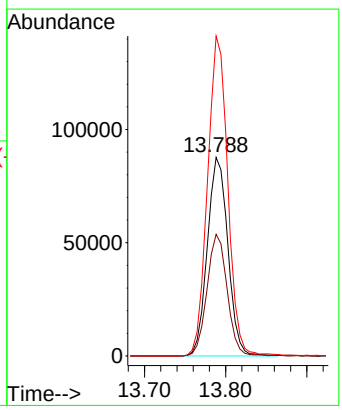




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087093.D
Acq: 18 Jun 2025 17:57

Tgt Ion:152 Resp: 154445

Ion	Ratio	Lower	Upper
152	100		
115	60.1	30.1	90.5
150	158.7	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT163S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-18	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087094.D	1		06/18/25 18:18	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT163S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-18	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087094.D	1		06/18/25 18:18	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.1		81 - 118		114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	52.5		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	166000	8.23				
540-36-3	1,4-Difluorobenzene	339000	9.106				
3114-55-4	Chlorobenzene-d5	307000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	142000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT163S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-18	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087094.D	1		06/18/25 18:18	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061825\
Data File : VN087094.D
Acq On : 18 Jun 2025 18:18
Operator : JC\MD
Sample : Q2329-18
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT163S1-20250613

Quant Time: Jun 19 01:32:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

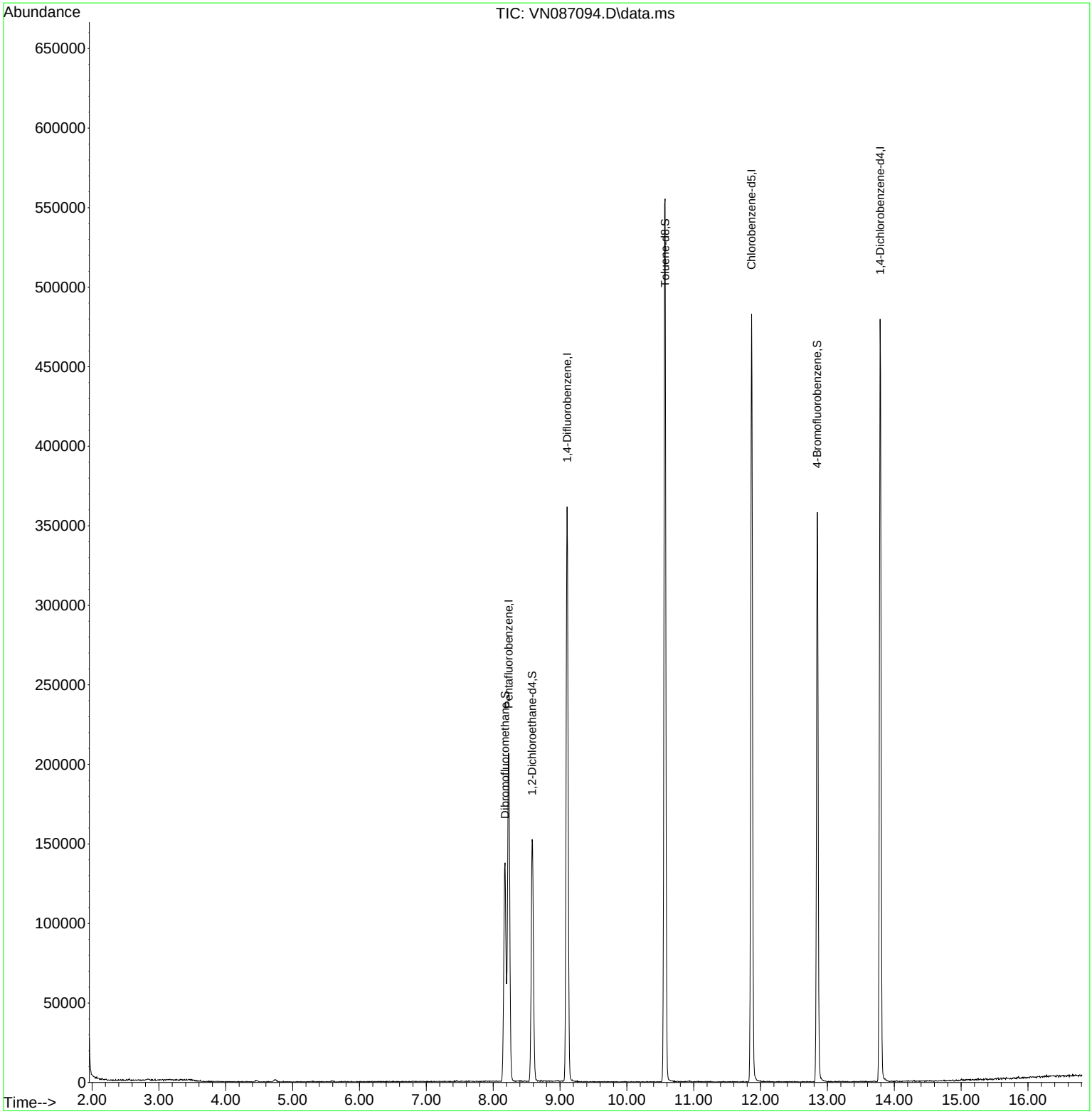
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	165721	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	339420	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	306857	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	141945	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	126728	57.115	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.240%			
35) Dibromofluoromethane	8.177	113	106211	52.802	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.600%			
50) Toluene-d8	10.571	98	418113	52.507	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.020%			
62) 4-Bromofluorobenzene	12.847	95	145696	49.247	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.500%			
Target Compounds						Qvalue

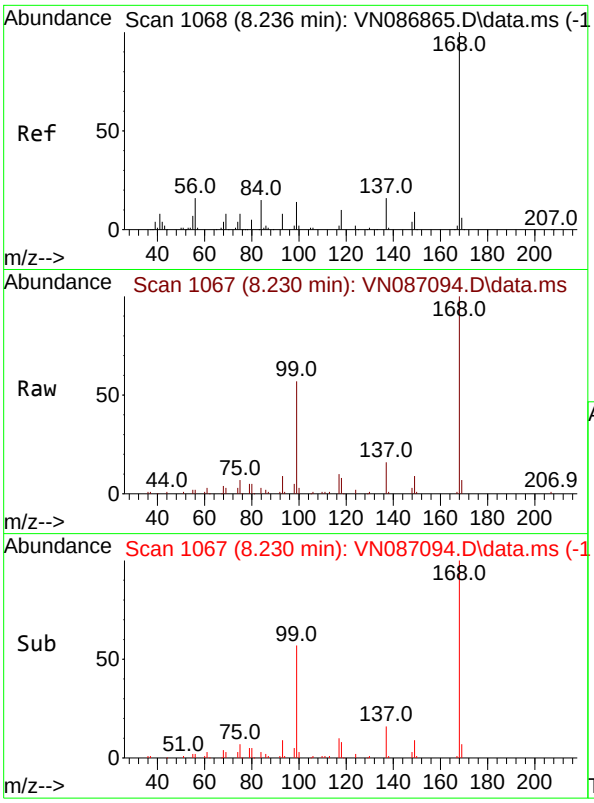
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087094.D
Acq On : 18 Jun 2025 18:18
Operator : JC\MD
Sample : Q2329-18
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT163S1-20250613

Quant Time: Jun 19 01:32:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



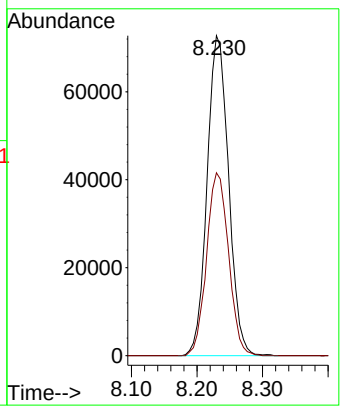


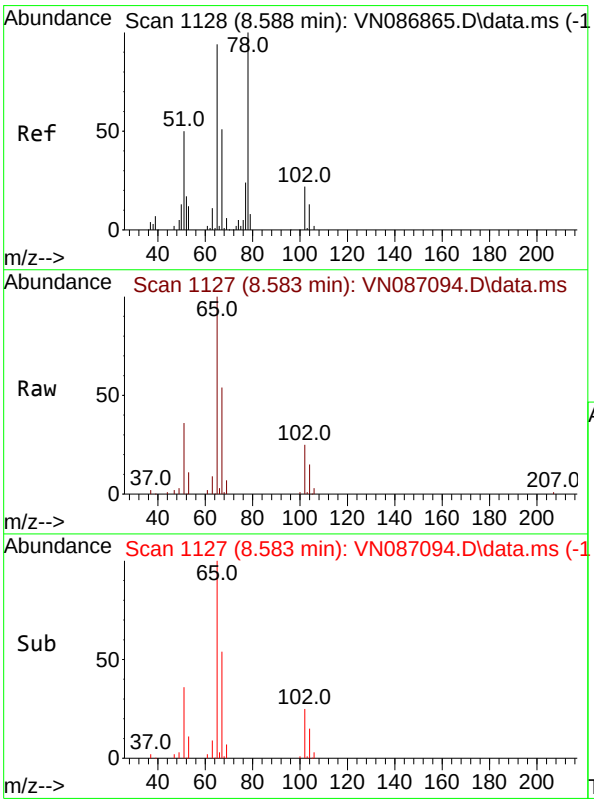
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087094.D
Acq: 18 Jun 2025 18:18

Instrument :
MSVOA_N
ClientSampleId :
TT163S1-20250613

Tgt Ion:168 Resp: 165721

Ion	Ratio	Lower	Upper
168	100		
99	57.1	49.1	73.7

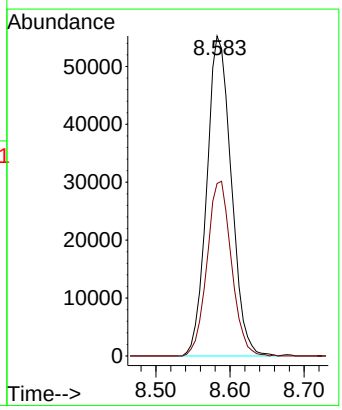


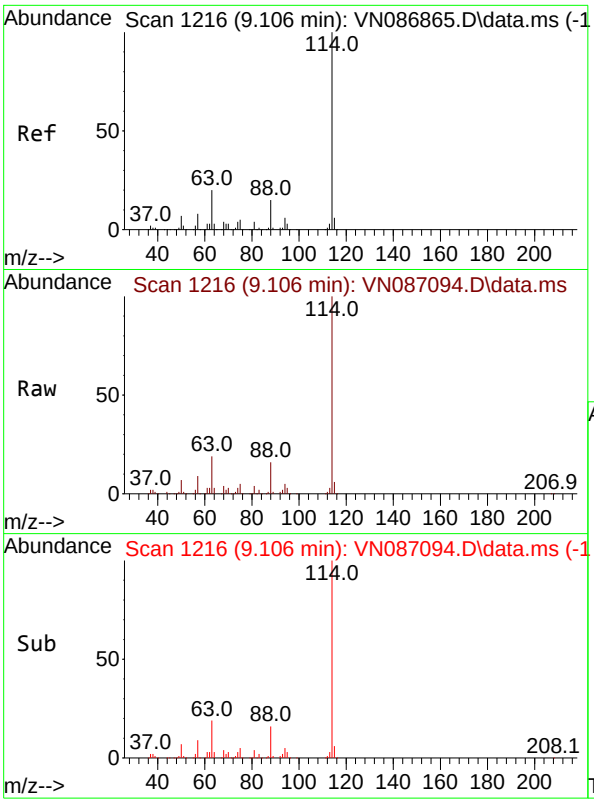


#33
1,2-Dichloroethane-d4
Concen: 57.115 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087094.D
Acq: 18 Jun 2025 18:18

Tgt Ion: 65 Resp: 126728

Ion	Ratio	Lower	Upper
65	100		
67	54.5	0.0	105.6



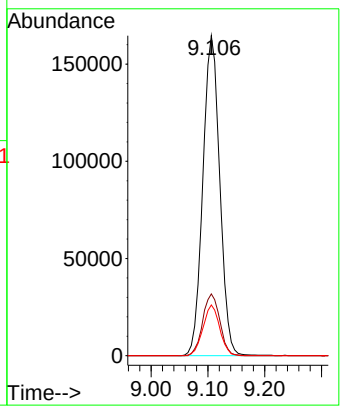


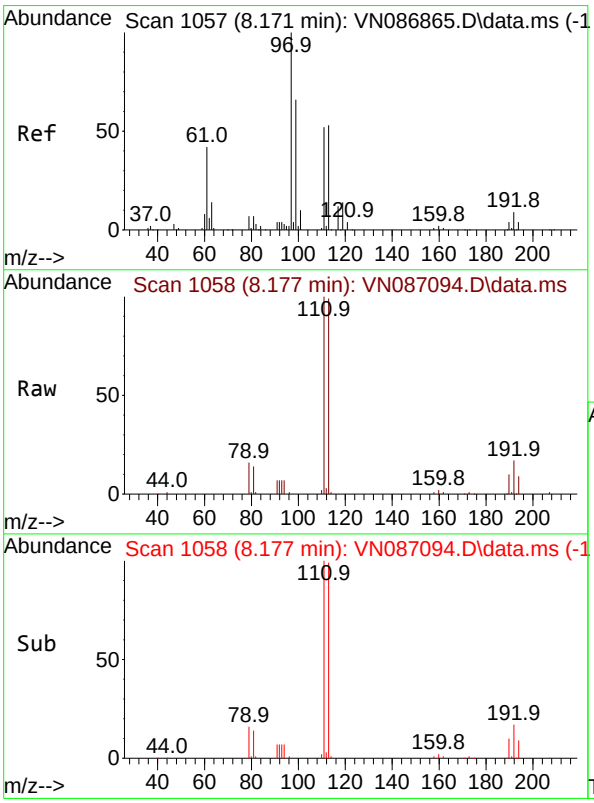
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087094.D
Acq: 18 Jun 2025 18:18

Instrument :
MSVOA_N
ClientSampleId :
TT163S1-20250613

Tgt Ion:114 Resp: 339420

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	39.6
88	15.8	0.0	30.2

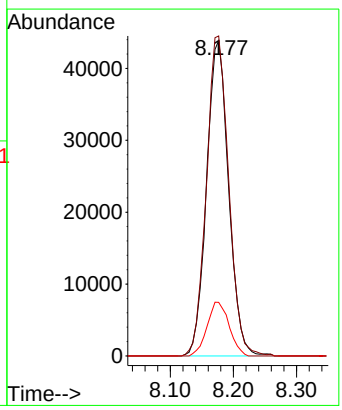


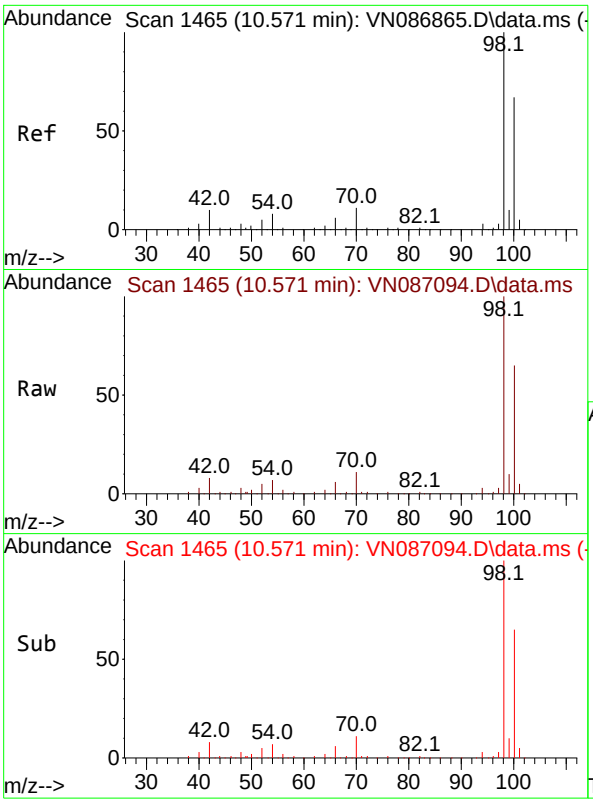


#35
Dibromofluoromethane
Concen: 52.802 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087094.D
Acq: 18 Jun 2025 18:18

Tgt Ion:113 Resp: 106211

Ion	Ratio	Lower	Upper
113	100		
111	102.8	84.2	126.2
192	17.1	14.2	21.4



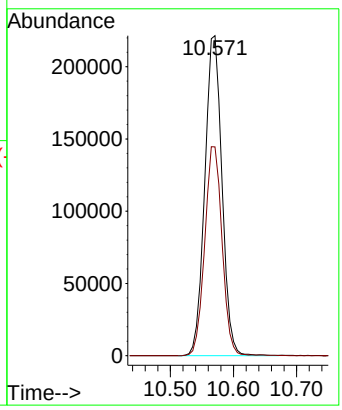


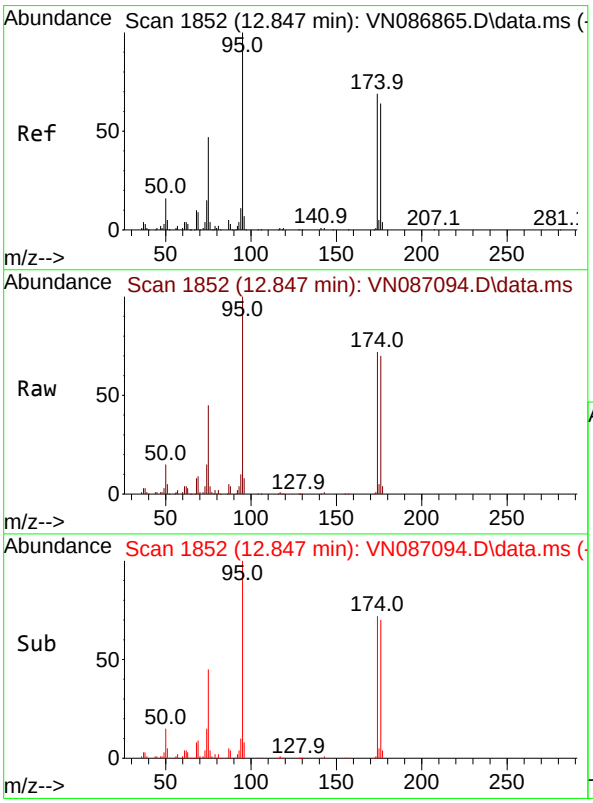
#50
Toluene-d8
Concen: 52.507 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087094.D
Acq: 18 Jun 2025 18:18

Instrument :
MSVOA_N
ClientSampleId :
TT163S1-20250613

Tgt Ion: 98 Resp: 418113

Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.4	80.0

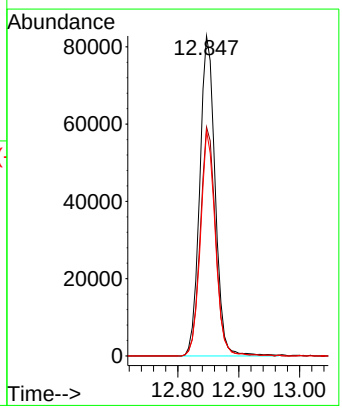


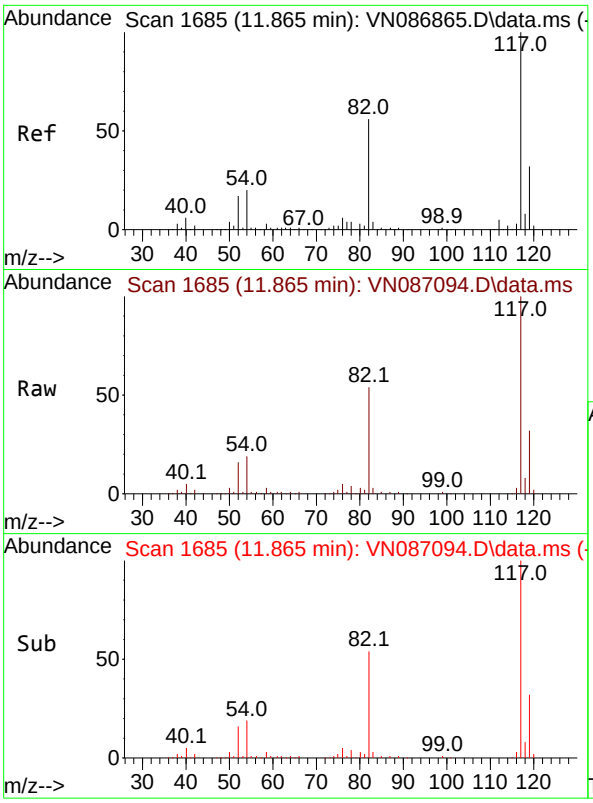


#62
4-Bromofluorobenzene
Concen: 49.247 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087094.D
Acq: 18 Jun 2025 18:18

Tgt Ion: 95 Resp: 145696

Ion	Ratio	Lower	Upper
95	100		
174	71.0	0.0	141.8
176	68.0	0.0	132.6



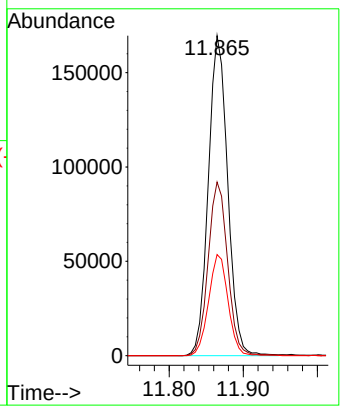


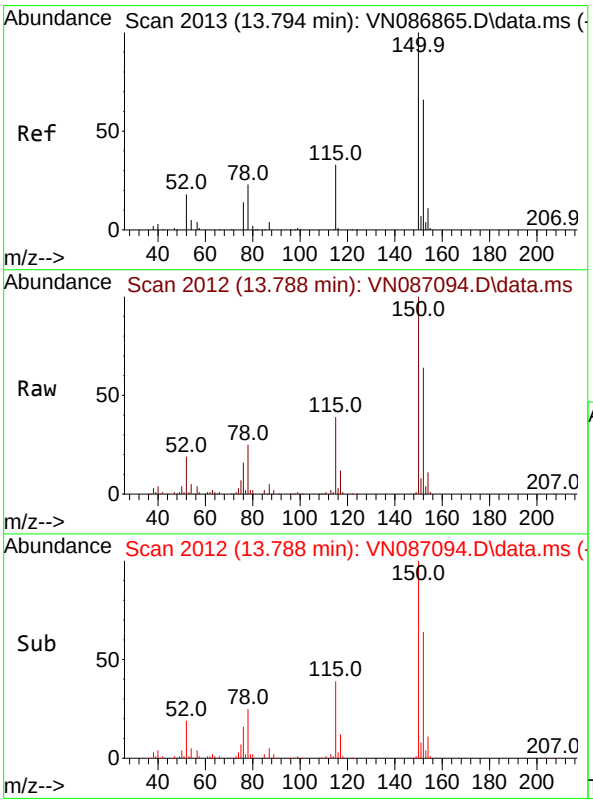
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087094.D
Acq: 18 Jun 2025 18:18

Instrument :
MSVOA_N
ClientSampleId :
TT163S1-20250613

Tgt Ion:117 Resp: 306857

Ion	Ratio	Lower	Upper
117	100		
82	54.3	44.6	67.0
119	31.6	25.5	38.3

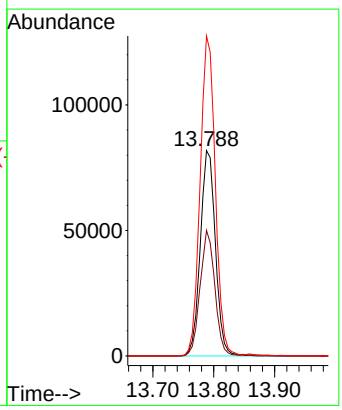




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087094.D
Acq: 18 Jun 2025 18:18

Tgt Ion:152 Resp: 141945

Ion	Ratio	Lower	Upper
152	100		
115	59.6	30.1	90.5
150	155.8	0.0	345.0



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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN086862.D RRF005 = VN086863.D RRF020 = VN086864.D
RRF050 = VN086865.D RRF100 = VN086866.D RRF150 = VN086867.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.467	0.444	0.539	0.501	0.535	0.506	0.499	7.5
Chloromethane	0.762	0.654	0.645	0.597	0.617	0.587	0.644	9.9
Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.5
Bromomethane		0.375	0.380	0.357	0.379	0.368	0.372	2.6
Chloroethane	0.460	0.444	0.442	0.408	0.418	0.402	0.429	5.4
Trichlorofluoromethane	0.882	0.903	0.904	0.834	0.858	0.825	0.868	3.9
1,1,2-Trichlorotrifluoroethane	0.554	0.567	0.563	0.519	0.546	0.520	0.545	3.8
1,1-Dichloroethene	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.4
Acetone	0.426	0.366	0.366	0.322	0.334	0.316	0.355	11.5
Carbon Disulfide	1.718	1.622	1.542	1.426	1.496	1.433	1.539	7.4
Methyl tert-butyl Ether	2.120	2.038	2.051	1.933	2.021	1.926	2.015	3.7
Methyl Acetate	1.035	1.049	1.078	0.986	1.049	1.011	1.035	3.1
Methylene Chloride	0.822	0.688	0.643	0.605	0.629	0.601	0.665	12.5
trans-1,2-Dichloroethene	0.700	0.674	0.621	0.567	0.591	0.561	0.619	9.3
1,1-Dichloroethane	1.192	1.153	1.156	1.063	1.110	1.043	1.120	5.2
Cyclohexane		1.303	1.116	1.004	1.030	0.976	1.086	12.2
2-Butanone	0.604	0.598	0.604	0.551	0.573	0.533	0.577	5.2
Carbon Tetrachloride	0.453	0.449	0.434	0.409	0.435	0.421	0.433	3.9
cis-1,2-Dichloroethene	0.786	0.766	0.762	0.699	0.729	0.701	0.740	4.9
Bromochloromethane	0.579	0.564	0.616	0.466	0.517	0.560	0.550	9.5
Chloroform	1.235	1.152	1.145	1.061	1.085	1.030	1.118	6.7
1,1,1-Trichloroethane	1.029	0.995	0.969	0.895	0.925	0.893	0.951	5.9
Methylcyclohexane	0.633	0.645	0.588	0.570	0.603	0.589	0.605	4.8
Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.2
1,2-Dichloroethane	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.6
Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.328	0.342	4.2
1,2-Dichloropropane	0.366	0.369	0.354	0.332	0.352	0.335	0.351	4.4
Bromodichloromethane	0.510	0.484	0.480	0.457	0.483	0.465	0.480	3.8
4-Methyl-2-Pentanone	0.505	0.549	0.576	0.538	0.562	0.528	0.543	4.6
Toluene	0.918	0.914	0.885	0.835	0.883	0.859	0.882	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.

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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF001 = VN086862.D RRF005 = VN086863.D RRF020 = VN086864.D
RRF050 = VN086865.D RRF100 = VN086866.D RRF150 = VN086867.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.571	0.526	0.524	0.522	0.548	0.530	0.537	3.6
cis-1,3-Dichloropropene	0.609	0.577	0.564	0.551	0.584	0.561	0.574	3.6
1,1,2-Trichloroethane	0.359	0.355	0.342	0.322	0.335	0.323	0.340	4.7
2-Hexanone	0.312	0.282	0.363	0.368	0.397	0.376	0.350	12.4
Dibromochloromethane	0.361	0.351	0.358	0.340	0.363	0.349	0.354	2.5
1,2-Dibromoethane	0.353	0.358	0.354	0.329	0.354	0.341	0.348	3.2
Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.5
Chlorobenzene	1.233	1.135	1.107	1.023	1.089	1.030	1.103	7
Ethyl Benzene	1.989	1.975	1.907	1.796	1.913	1.816	1.900	4.2
m/p-Xylenes	0.730	0.751	0.741	0.701	0.736	0.703	0.727	2.8
o-Xylene	0.714	0.699	0.702	0.674	0.711	0.678	0.696	2.4
Styrene	1.177	1.193	1.226	1.162	1.229	1.164	1.192	2.5
Bromoform	0.217	0.266	0.276	0.265	0.286	0.267	0.263	9.1
Isopropylbenzene	3.864	3.749	3.649	3.426	3.621	3.546	3.643	4.2
1,1,2,2-Tetrachloroethane	1.292	1.299	1.273	1.178	1.205	1.157	1.234	5
1,3-Dichlorobenzene	1.763	1.709	1.657	1.554	1.612	1.566	1.644	5
1,4-Dichlorobenzene	1.820	1.786	1.657	1.572	1.642	1.576	1.676	6.3
1,2-Dichlorobenzene	1.675	1.651	1.596	1.500	1.557	1.496	1.579	4.8
1,2-Dibromo-3-Chloropropane	0.339	0.317	0.290	0.272	0.283	0.270	0.295	9.3
1,2,4-Trichlorobenzene	1.042	1.037	0.991	0.969	1.016	0.994	1.008	2.8
1,2,3-Trichlorobenzene	1.073	1.009	0.993	0.950	1.000	0.987	1.002	4
1,2-Dichloroethane-d4		0.732	0.707	0.500	0.656	0.751	0.669	15.1
Dibromofluoromethane		0.303	0.310	0.219	0.298	0.351	0.296	16.2
Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.2
4-Bromofluorobenzene		0.441	0.446	0.325	0.446	0.521	0.436	16.2

* 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_N_NEW

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025
Response Via : Initial Calibration

Calibration Files
1 =VN086862.D 5 =VN086863.D 20 =VN086864.D 50 =VN086865.D 100 =VN086866.D 150 =VN086867.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.467	0.444	0.539	0.501	0.535	0.506	0.499	7.51
3)	P	Chloromethane	0.762	0.654	0.645	0.597	0.617	0.587	0.644	9.85
4)	C	Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.49#
5)	T	Bromomethane		0.375	0.380	0.357	0.379	0.368	0.372	2.57
6)	T	Chloroethane	0.460	0.444	0.442	0.408	0.418	0.402	0.429	5.37
7)	T	Trichlorofluor...	0.882	0.903	0.904	0.834	0.858	0.825	0.868	3.93
8)	T	Diethyl Ether	0.372	0.397	0.383	0.363	0.384	0.369	0.378	3.28
9)	T	1,1,2-Trichlor...	0.554	0.567	0.563	0.519	0.546	0.520	0.545	3.83
10)	T	Methyl Iodide		0.720	0.729	0.683	0.722	0.679	0.707	3.35
11)	T	Tert butyl alc...		0.192	0.194	0.176	0.180	0.166	0.182	6.37
12)	CM	1,1-Dichloroet...	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.44#
13)	T	Acrolein		0.073	0.051	0.045	0.052	0.066	0.057	20.26
14)	T	Allyl chloride	0.985	0.911	0.925	0.865	0.905	0.947	0.923	4.40
15)	T	Acrylonitrile	0.434	0.434	0.445	0.407	0.423	0.404	0.425	3.82
16)	T	Acetone	0.426	0.366	0.366	0.322	0.334	0.316	0.355	11.53
17)	T	Carbon Disulfide	1.718	1.621	1.542	1.426	1.496	1.433	1.539	7.38
18)	T	Methyl Acetate	1.035	1.049	1.078	0.986	1.049	1.011	1.035	3.10
19)	T	Methyl tert-bu...	2.120	2.038	2.051	1.933	2.021	1.926	2.015	3.69
20)	T	Methylene Chlo...	0.822	0.688	0.643	0.605	0.629	0.601	0.665	12.52
21)	T	trans-1,2-Dich...	0.700	0.674	0.621	0.567	0.591	0.561	0.619	9.25
22)	T	Diisopropyl ether	2.018	2.020	2.036	1.856	1.915	1.828	1.945	4.70
23)	T	Vinyl Acetate	1.743	1.692	1.715	1.591	1.604	1.517	1.644	5.29
24)	P	1,1-Dichloroet...	1.192	1.152	1.156	1.063	1.110	1.043	1.120	5.17
25)	T	2-Butanone	0.604	0.598	0.604	0.551	0.573	0.533	0.577	5.18
26)	T	2,2-Dichloropr...	0.967	0.796	0.778	0.905	0.912	0.868	0.871	8.32
27)	T	cis-1,2-Dichlo...	0.786	0.766	0.762	0.699	0.729	0.701	0.740	4.93
28)	T	Bromochloromet...	0.579	0.564	0.616	0.466	0.517	0.560	0.550	9.48
29)	T	Tetrahydrofuran	0.390	0.390	0.399	0.358	0.372	0.346	0.376	5.46
30)	C	Chloroform	1.235	1.151	1.145	1.061	1.085	1.030	1.118	6.66#
31)	T	Cyclohexane		1.303	1.116	1.004	1.030	0.976	1.086	12.21
32)	T	1,1,1-Trichlor...	1.029	0.995	0.969	0.895	0.925	0.893	0.951	5.88
33)	S	1,2-Dichloroet...		0.732	0.707	0.500	0.656	0.751	0.669	15.08
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.303	0.310	0.219	0.298	0.351	0.296	16.15
36)	T	1,1-Dichloropr...	0.467	0.458	0.438	0.418	0.442	0.426	0.442	4.23
37)	T	Ethyl Acetate	0.544	0.615	0.577	0.536	0.565	0.535	0.562	5.48
38)	T	Carbon Tetrach...	0.453	0.449	0.434	0.409	0.435	0.421	0.433	3.88
39)	T	Methylcyclohexane	0.633	0.645	0.588	0.570	0.603	0.589	0.605	4.75
40)	TM	Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.20
41)	T	Methacrylonitrile	0.356	0.319	0.318	0.303	0.299	0.299	0.316	6.84
42)	TM	1,2-Dichloroet...	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.60
43)	T	Isopropyl Acetate	0.975	0.950	0.906	0.852	0.884	0.845	0.902	5.79
44)	TM	Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.327	0.342	4.17
45)	C	1,2-Dichloropr...	0.366	0.369	0.354	0.332	0.352	0.335	0.351	4.40#
46)	T	Dibromomethane	0.233	0.242	0.241	0.221	0.237	0.226	0.233	3.54
47)	T	Bromodichlorom...	0.510	0.484	0.480	0.457	0.483	0.465	0.480	3.80
48)	T	Methyl methacr...	0.444	0.415	0.421	0.394	0.421	0.397	0.415	4.40
49)	T	1,4-Dioxane	0.006	0.007	0.008	0.008	0.008	0.007	0.008	9.40
50)	S	Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.23
51)	T	4-Methyl-2-Pen...	0.505	0.549	0.576	0.538	0.562	0.528	0.543	4.64
52)	CM	Toluene	0.918	0.914	0.885	0.835	0.883	0.859	0.882	3.61#
53)	T	t-1,3-Dichloro...	0.571	0.526	0.524	0.522	0.548	0.530	0.537	3.59
54)	T	cis-1,3-Dichlo...	0.609	0.577	0.564	0.551	0.584	0.561	0.574	3.61
55)	T	1,1,2-Trichlor...	0.359	0.355	0.342	0.322	0.335	0.323	0.340	4.66
56)	T	Ethyl methacry...	0.433	0.516	0.567	0.556	0.595	0.578	0.541	10.92

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N060625W.M

57)	T	1,3-Dichloropr...	0.643	0.600	0.587	0.561	0.583	0.559	0.589	5.27
58)	T	2-Chloroethyl ...	0.278	0.305	0.334	0.274	0.340	0.405	0.323	15.07
59)	T	2-Hexanone	0.312	0.282	0.363	0.368	0.397	0.376	0.350	12.36
60)	T	Dibromochlorom...	0.361	0.351	0.358	0.340	0.363	0.349	0.354	2.49
61)	T	1,2-Dibromoethane	0.353	0.358	0.354	0.329	0.354	0.341	0.348	3.18
62)	S	4-Bromofluorob...		0.441	0.446	0.325	0.446	0.521	0.436	16.16
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.51
65)	PM	Chlorobenzene	1.233	1.135	1.107	1.023	1.089	1.030	1.103	7.01
66)	T	1,1,1,2-Tetrac...	0.362	0.374	0.358	0.338	0.356	0.338	0.354	3.99
67)	C	Ethyl Benzene	1.989	1.975	1.907	1.796	1.913	1.816	1.899	4.19#
68)	T	m/p-Xylenes	0.730	0.751	0.741	0.701	0.736	0.703	0.727	2.82
69)	T	o-Xylene	0.714	0.699	0.702	0.674	0.711	0.678	0.696	2.42
70)	T	Styrene	1.177	1.193	1.226	1.162	1.229	1.164	1.192	2.51
71)	P	Bromoform	0.217	0.266	0.276	0.265	0.286	0.267	0.263	9.09
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.864	3.749	3.649	3.426	3.621	3.546	3.643	4.21
74)	T	N-amyl acetate	1.376	1.110	1.187	1.266	1.372	1.327	1.273	8.42
75)	P	1,1,2,2-Tetrac...	1.292	1.299	1.273	1.178	1.205	1.157	1.234	4.99
76)	T	1,2,3-Trichlor...	1.297	1.189	1.129	1.173	1.201	1.142	1.189	5.03
77)	T	Bromobenzene	0.870	0.855	0.840	0.790	0.838	0.819	0.835	3.36
78)	T	n-propylbenzene	4.530	4.627	4.449	4.211	4.424	4.317	4.427	3.35
79)	T	2-Chlorotoluene	2.852	2.723	2.674	2.507	2.618	2.554	2.655	4.69
80)	T	1,3,5-Trimethy...	3.004	3.091	3.035	2.898	3.064	2.953	3.007	2.39
81)	T	trans-1,4-Dich...		0.510	0.522	0.476	0.546	0.528	0.516	5.06
82)	T	4-Chlorotoluene	2.899	2.757	2.671	2.531	2.664	2.595	2.686	4.81
83)	T	tert-Butylbenzene	2.942	2.810	2.736	2.617	2.745	2.668	2.753	4.14
84)	T	1,2,4-Trimethy...	2.952	3.122	3.063	2.914	3.075	2.968	3.016	2.73
85)	T	sec-Butylbenzene	4.114	4.126	4.037	3.829	4.018	3.861	3.998	3.15
86)	T	p-Isopropyltol...	3.305	3.425	3.321	3.184	3.366	3.227	3.305	2.68
87)	T	1,3-Dichlorobe...	1.763	1.709	1.657	1.554	1.612	1.566	1.644	5.01
88)	T	1,4-Dichlorobe...	1.820	1.786	1.657	1.572	1.642	1.576	1.676	6.27
89)	T	n-Butylbenzene	3.473	3.292	3.140	3.059	3.188	3.054	3.201	4.99
90)	T	Hexachloroethane	0.580	0.537	0.569	0.537	0.577	0.562	0.560	3.43
91)	T	1,2-Dichlorobe...	1.675	1.651	1.596	1.500	1.557	1.496	1.579	4.77
92)	T	1,2-Dibromo-3-...	0.339	0.317	0.290	0.272	0.283	0.270	0.295	9.29
93)	T	1,2,4-Trichlor...	1.042	1.037	0.991	0.969	1.016	0.994	1.008	2.82
94)	T	Hexachlorobuta...	0.364	0.391	0.385	0.363	0.382	0.369	0.376	3.11
95)	T	Naphthalene	3.820	3.727	3.761	3.600	3.839	3.772	3.753	2.27
96)	T	1,2,3-Trichlor...	1.073	1.009	0.993	0.950	1.000	0.987	1.002	4.05

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086862.D
Acq On : 06 Jun 2025 12:44
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 07 01:54:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.235	168	212682	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.106	114	393457	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	348010	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167399	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 74 - 125		Recovery =	0.000%#			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l		
Spiked Amount 50.000	Range 75 - 124		Recovery =	0.000%#			
50) Toluene-d8	0.000	98	0d	0.000	ug/l		
Spiked Amount 50.000	Range 86 - 113		Recovery =	0.000%#			
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l		
Spiked Amount 50.000	Range 77 - 121		Recovery =	0.000%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.153	85	1985	0.936	ug/l		72
3) Chloromethane	2.400	50	3241	1.184	ug/l		98
4) Vinyl Chloride	2.559	62	2848	1.008	ug/l	#	88
6) Chloroethane	3.159	64	1957	1.073	ug/l	#	79
7) Trichlorofluoromethane	3.530	101	3752	1.017	ug/l		97
8) Diethyl Ether	3.994	74	1583	0.984	ug/l		76
9) 1,1,2-Trichlorotrifluo...	4.377	101	2358m	1.017	ug/l		
12) 1,1-Dichloroethene	4.365	96	2436	1.029	ug/l		85
14) Allyl chloride	5.041	41	4189	1.067	ug/l	#	75
15) Acrylonitrile	5.735	53	9222	5.106	ug/l		96
16) Acetone	4.459	43	9069	6.006	ug/l		95
17) Carbon Disulfide	4.730	76	7306	1.116	ug/l		97
18) Methyl Acetate	5.053	43	4402	1.000	ug/l	#	66
19) Methyl tert-butyl Ether	5.824	73	9019	1.052	ug/l		92
20) Methylene Chloride	5.294	84	3496	1.237	ug/l		93
21) trans-1,2-Dichloroethene	5.800	96	2979	1.131	ug/l		87
22) Diisopropyl ether	6.682	45	8584	1.037	ug/l	#	96
23) Vinyl Acetate	6.618	43	37075	5.303	ug/l		95
24) 1,1-Dichloroethane	6.588	63	5071	1.065	ug/l	#	81
25) 2-Butanone	7.500	43	12841	5.231	ug/l		93
26) 2,2-Dichloropropane	7.500	77	4112	1.110	ug/l		94
27) cis-1,2-Dichloroethene	7.494	96	3345	1.062	ug/l		95
28) Bromochloromethane	7.824	49	2464	1.052	ug/l	#	88
29) Tetrahydrofuran	7.853	42	8301	5.191	ug/l		100
30) Chloroform	7.971	83	5255	1.105	ug/l		97
32) 1,1,1-Trichloroethane	8.171	97	4378	1.082	ug/l	#	50
36) 1,1-Dichloropropene	8.376	75	3678	1.059	ug/l		96
37) Ethyl Acetate	7.577	43	4282	0.968	ug/l	#	78
38) Carbon Tetrachloride	8.376	117	3563	1.045	ug/l	#	93
39) Methylcyclohexane	9.606	83	4981	1.046	ug/l	#	90
40) Benzene	8.612	78	12498	1.100	ug/l		100
41) Methacrylonitrile	7.782	41	2799	1.127	ug/l		89
42) 1,2-Dichloroethane	8.682	62	3725	1.081	ug/l		82
43) Isopropyl Acetate	8.694	43	7673	1.081	ug/l	#	96
44) Trichloroethene	9.365	130	2822	1.047	ug/l		71
45) 1,2-Dichloropropane	9.629	63	2883	1.043	ug/l		95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086862.D
Acq On : 06 Jun 2025 12:44
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 07 01:54:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	9.712	93	1835	0.999	ug/l		94
47) Bromodichloromethane	9.888	83	4017	1.063	ug/l	#	96
48) Methyl methacrylate	9.688	41	3492	1.069	ug/l		88
49) 1,4-Dioxane	9.706	88	1004	16.891	ug/l	#	74
51) 4-Methyl-2-Pentanone	10.453	43	19886	4.653	ug/l		99
52) Toluene	10.635	92	7227	1.041	ug/l		95
53) t-1,3-Dichloropropene	10.841	75	4494	1.064	ug/l		97
54) cis-1,3-Dichloropropene	10.312	75	4792	1.060	ug/l		97
55) 1,1,2-Trichloroethane	11.023	97	2828	1.058	ug/l		89
56) Ethyl methacrylate	10.882	69	3406	0.800	ug/l	#	85
57) 1,3-Dichloropropane	11.170	76	5062	1.092	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.165	63	10924	4.304	ug/l		97
59) 2-Hexanone	11.235	43	12295m	4.466	ug/l		
60) Dibromochloromethane	11.359	129	2843	1.021	ug/l		96
61) 1,2-Dibromoethane	11.470	107	2777	1.014	ug/l		96
64) Tetrachloroethene	11.106	164	2473	1.123	ug/l		94
65) Chlorobenzene	11.894	112	8581	1.118	ug/l	#	87
66) 1,1,1,2-Tetrachloroethane	11.959	131	2523	1.023	ug/l	#	63
67) Ethyl Benzene	11.970	91	13845	1.047	ug/l		94
68) m/p-Xylenes	12.070	106	10163	2.008	ug/l		95
69) o-Xylene	12.400	106	4970	1.025	ug/l		93
70) Styrene	12.417	104	8189	0.987	ug/l		98
71) Bromoform	12.582	173	1508	0.825	ug/l	#	78
73) Isopropylbenzene	12.694	105	12938	1.061	ug/l		98
74) N-amyl acetate	12.647	43	4608m	1.138	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.935	83	4326	1.047	ug/l	#	93
76) 1,2,3-Trichloropropane	13.000	75	4343m	1.088	ug/l		
77) Bromobenzene	12.982	156	2913	1.042	ug/l		96
78) n-propylbenzene	13.035	91	15168	1.023	ug/l		98
79) 2-Chlorotoluene	13.123	91	9550	1.074	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	10058	0.999	ug/l		96
82) 4-Chlorotoluene	13.223	91	9706	1.079	ug/l		96
83) tert-Butylbenzene	13.435	119	9849	1.069	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	9882	0.979	ug/l		99
85) sec-Butylbenzene	13.617	105	13775	1.029	ug/l		100
86) p-Isopropyltoluene	13.729	119	11065	1.000	ug/l		97
87) 1,3-Dichlorobenzene	13.735	146	5903	1.073	ug/l		94
88) 1,4-Dichlorobenzene	13.811	146	6094m	1.086	ug/l		
89) n-Butylbenzene	14.058	91	11627	1.085	ug/l		94
90) Hexachloroethane	14.329	117	1942	1.036	ug/l		93
91) 1,2-Dichlorobenzene	14.106	146	5607	1.061	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	1136	1.150	ug/l		78
93) 1,2,4-Trichlorobenzene	15.388	180	3489	1.034	ug/l		98
94) Hexachlorobutadiene	15.500	225	1219	0.969	ug/l		88
95) Naphthalene	15.635	128	12789	1.018	ug/l		98
96) 1,2,3-Trichlorobenzene	15.835	180	3594	1.072	ug/l		96

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

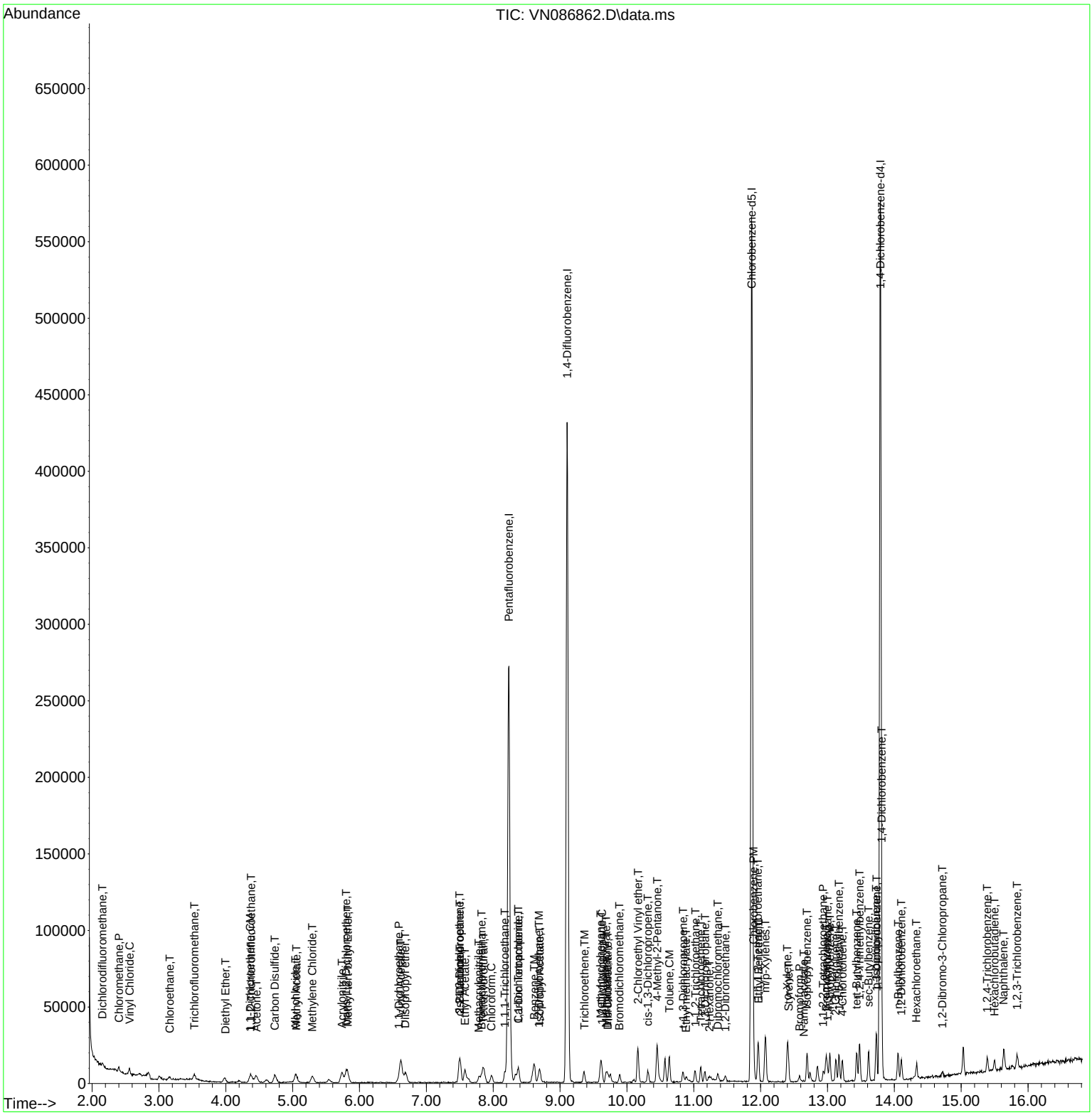
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086862.D
Acq On : 06 Jun 2025 12:44
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

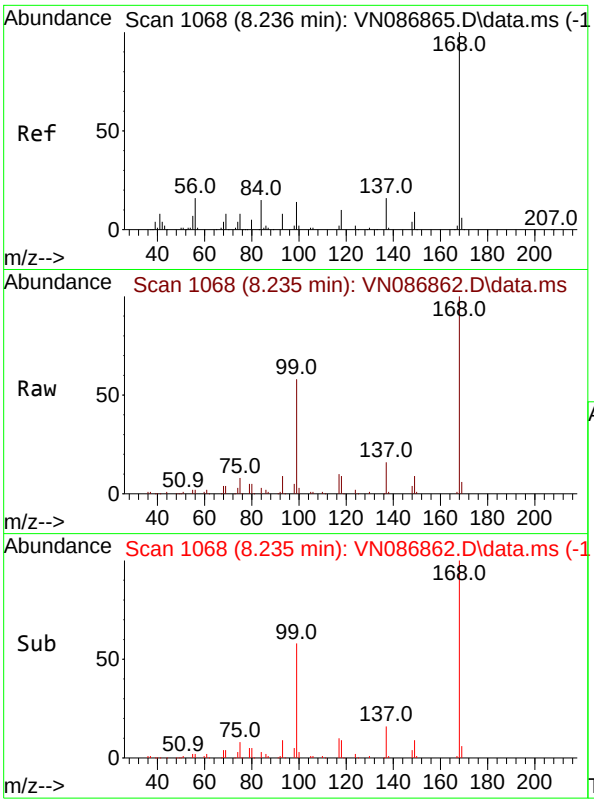
Quant Time: Jun 07 01:54:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

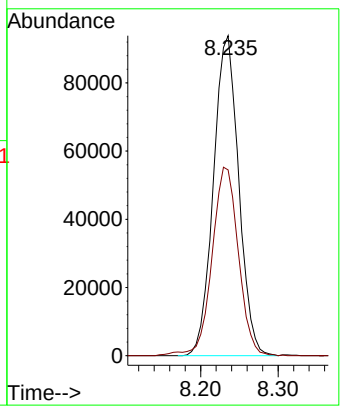




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:168 Resp: 21268

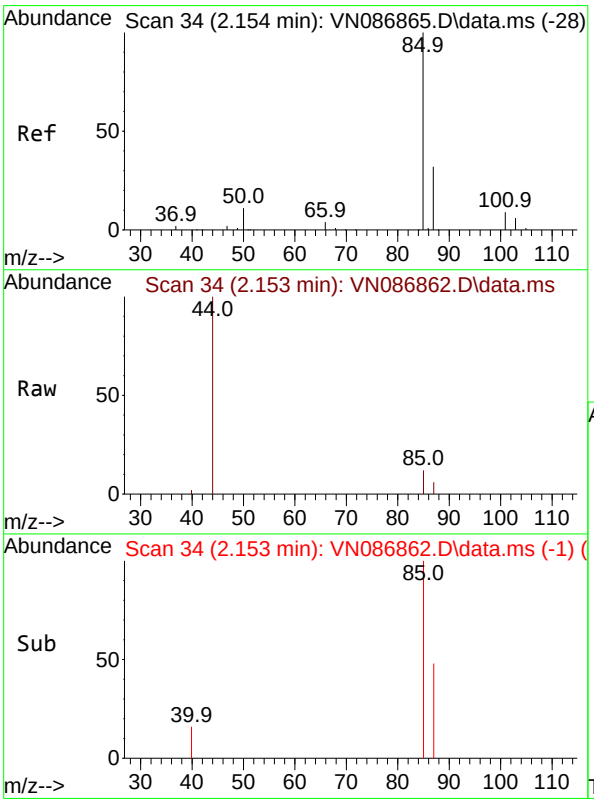
Ion	Ratio	Lower	Upper
168	100		
99	58.1	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

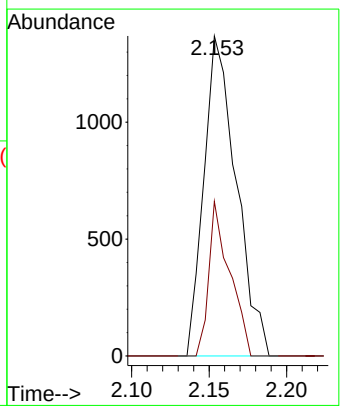
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

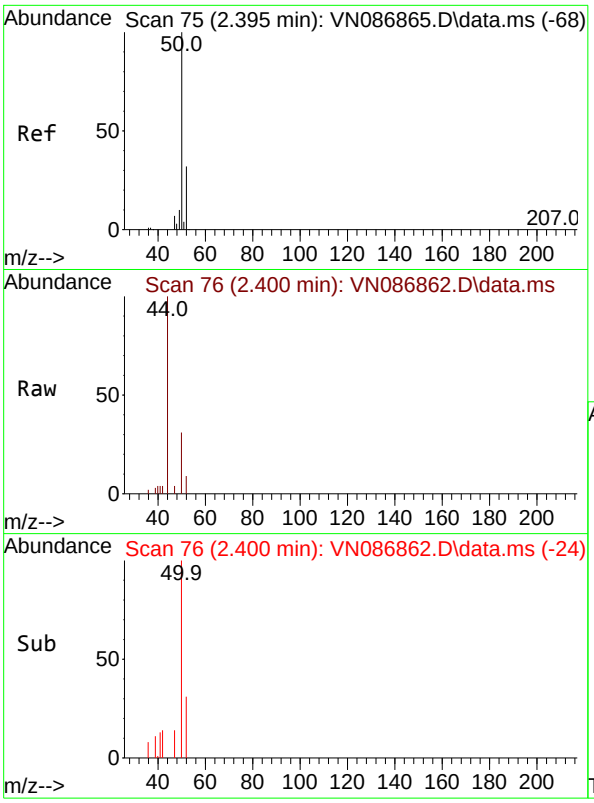


#2
Dichlorodifluoromethane
Concen: 0.936 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 85 Resp: 1985

Ion	Ratio	Lower	Upper
85	100		
87	48.3	16.2	48.6

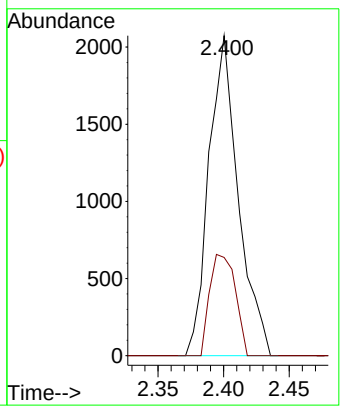




#3
Chloromethane
Concen: 1.184 ug/l
RT: 2.400 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 50 Resp: 324

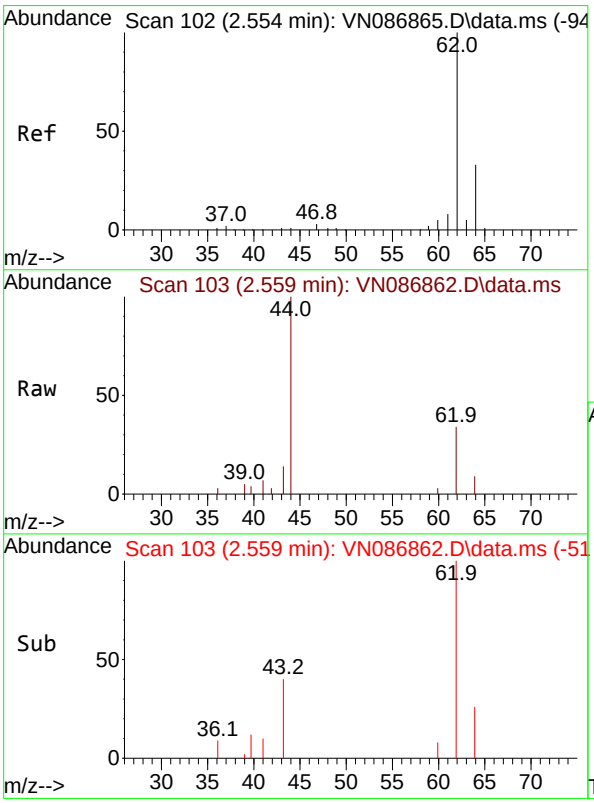
Ion	Ratio	Lower	Upper
50	100		
52	30.7	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

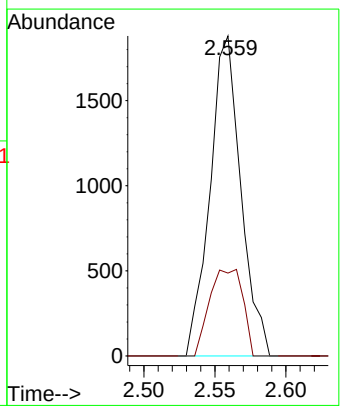
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

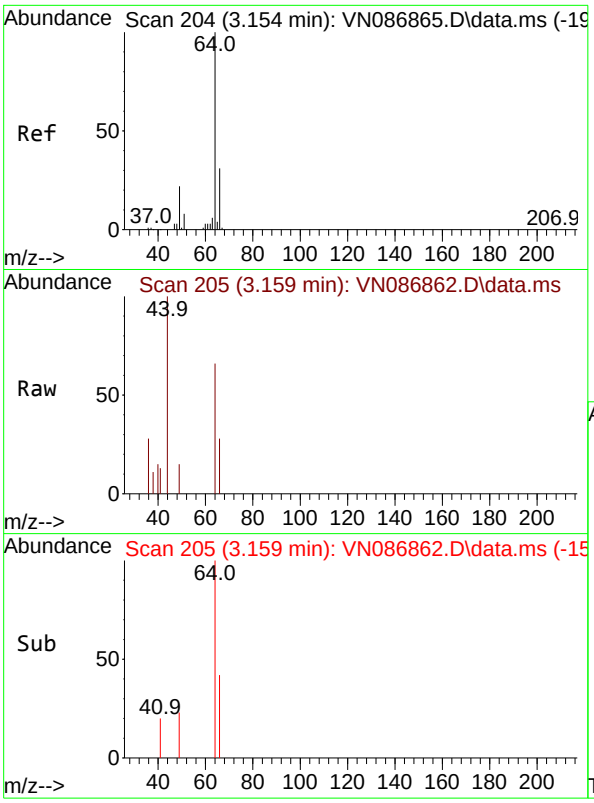


#4
Vinyl Chloride
Concen: 1.008 ug/l
RT: 2.559 min Scan# 103
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 62 Resp: 2848

Ion	Ratio	Lower	Upper
62	100		
64	25.9	26.0	39.0#

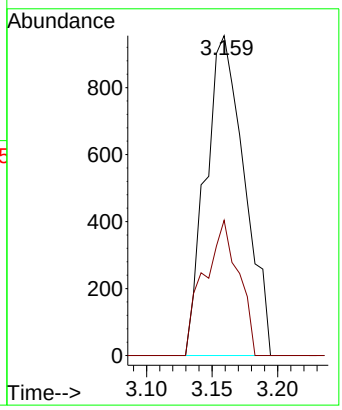




#6
Chloroethane
Concen: 1.073 ug/l
RT: 3.159 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 64 Resp: 195

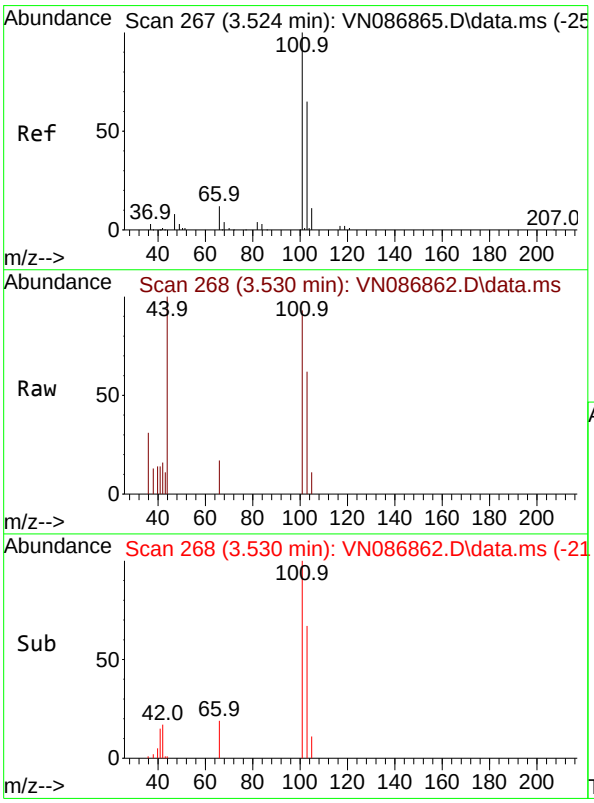
Ion	Ratio	Lower	Upper
64	100		
66	42.3	24.6	36.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

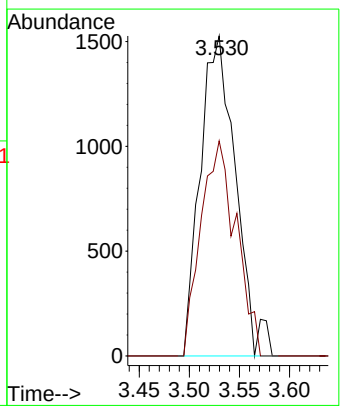
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

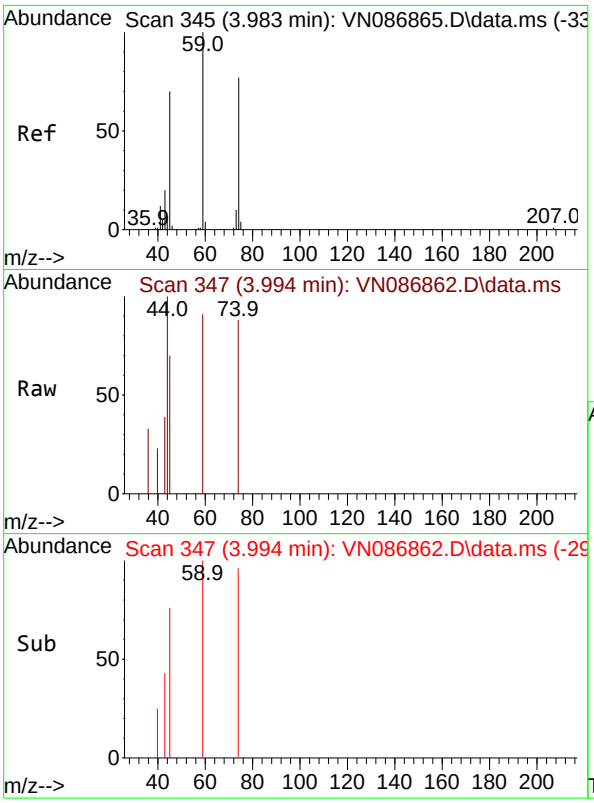


#7
Trichlorofluoromethane
Concen: 1.017 ug/l
RT: 3.530 min Scan# 268
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:101 Resp: 3752

Ion	Ratio	Lower	Upper
101	100		
103	67.2	52.2	78.2

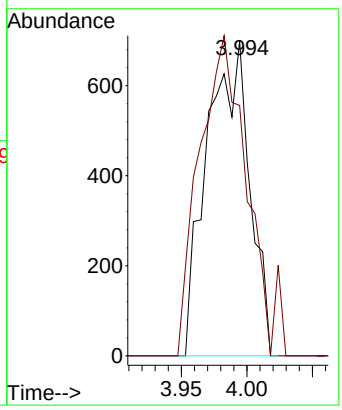




#8
Diethyl Ether
Concen: 0.984 ug/l
RT: 3.994 min Scan# 34
Delta R.T. 0.011 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 74 Resp: 158

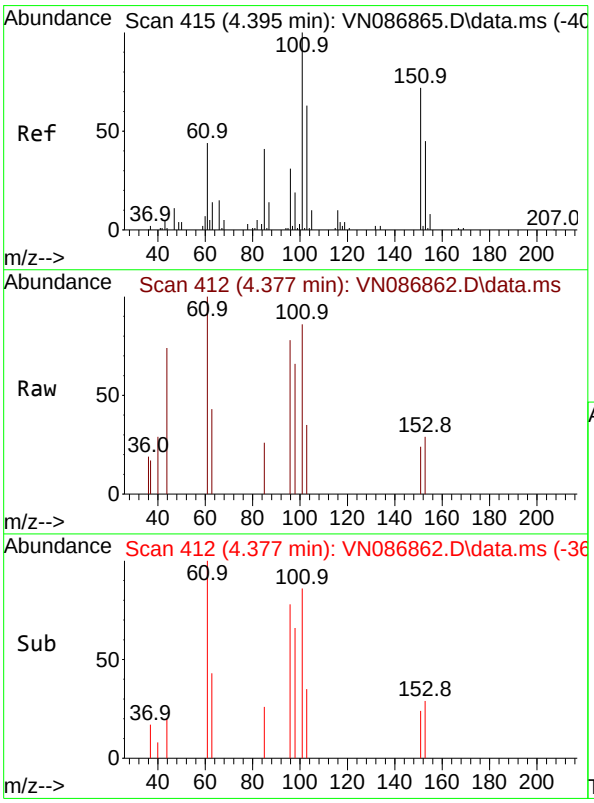
Ion	Ratio	Lower	Upper
74	100		
45	113.8	45.5	136.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

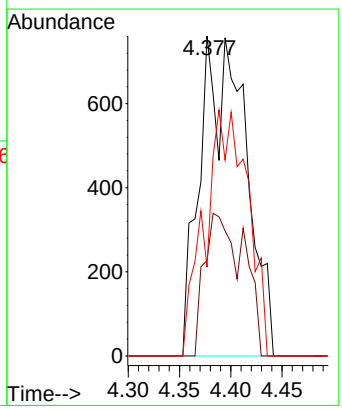
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

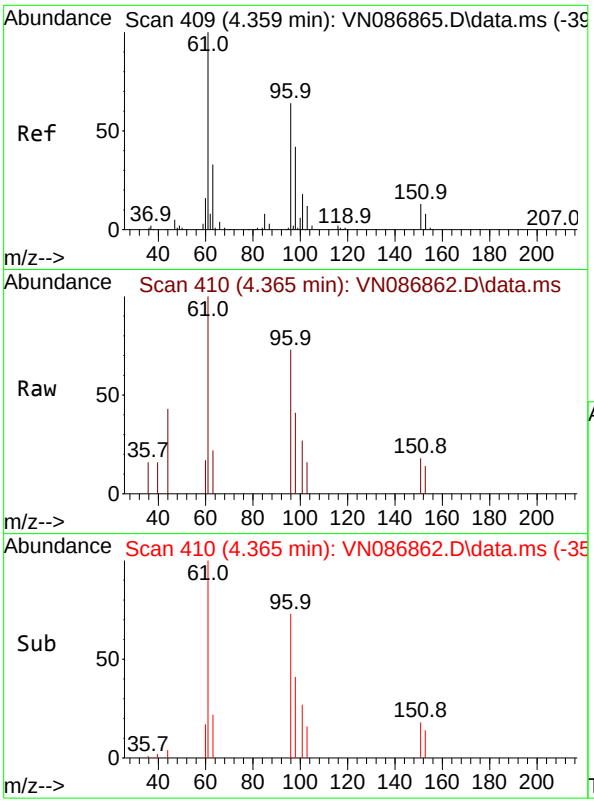


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.017 ug/l m
RT: 4.377 min Scan# 412
Delta R.T. -0.018 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:101 Resp: 2358

Ion	Ratio	Lower	Upper
101	100		
85	27.8	33.8	50.8#
151	72.1	58.7	88.1

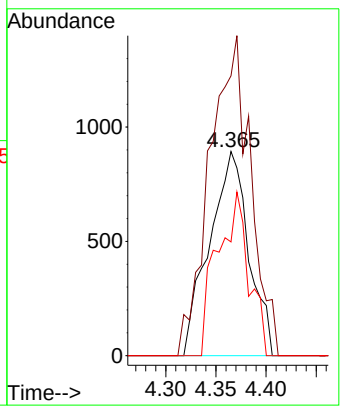




#12
1,1-Dichloroethene
Concen: 1.029 ug/l
RT: 4.365 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 96 Resp: 243

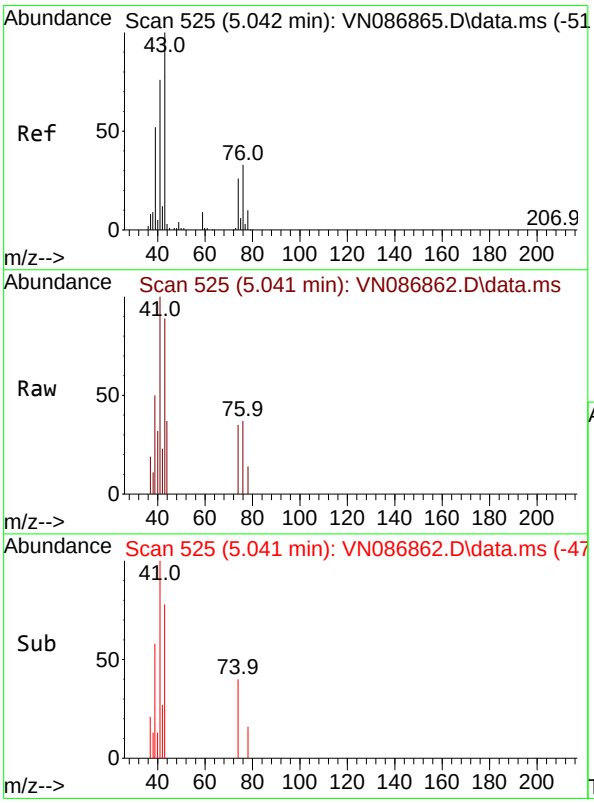
Ion	Ratio	Lower	Upper
96	100		
61	137.1	125.8	188.6
98	55.8	52.5	78.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

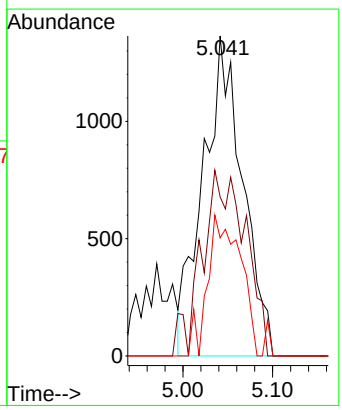
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

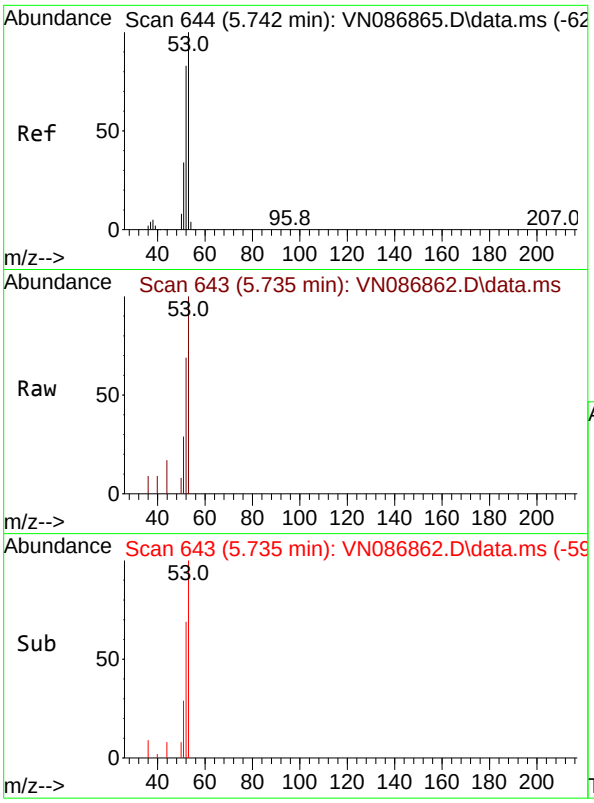


#14
Allyl chloride
Concen: 1.067 ug/l
RT: 5.041 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 41 Resp: 4189

Ion	Ratio	Lower	Upper
41	100		
39	35.3	51.3	76.9#
76	36.4	31.4	47.0

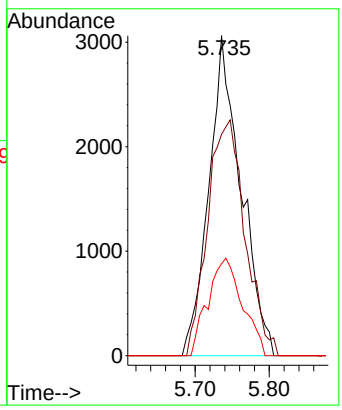




#15
Acrylonitrile
Concen: 5.106 ug/l
RT: 5.735 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 53 Resp: 922

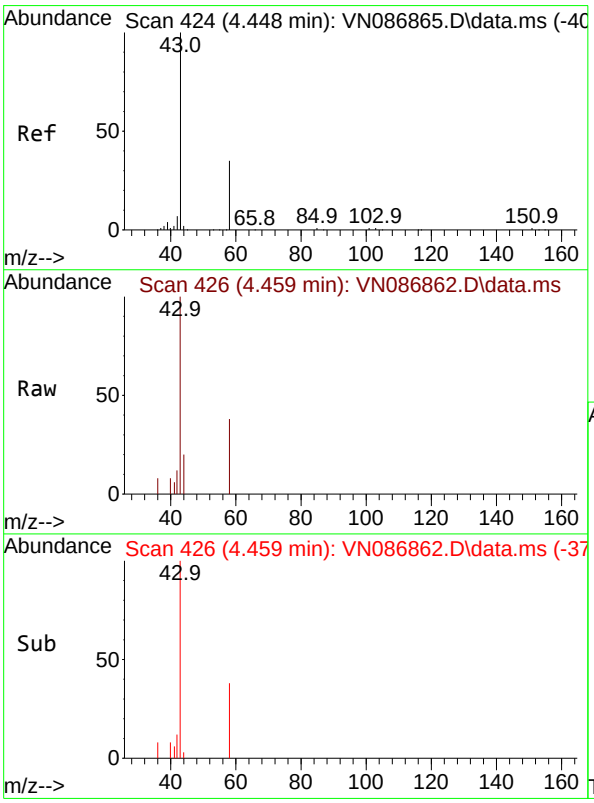
Ion	Ratio	Lower	Upper
53	100		
52	85.4	65.0	97.6
51	32.7	27.2	40.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

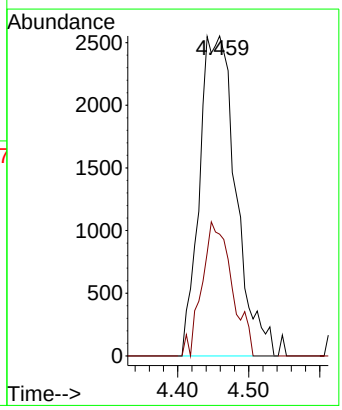
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

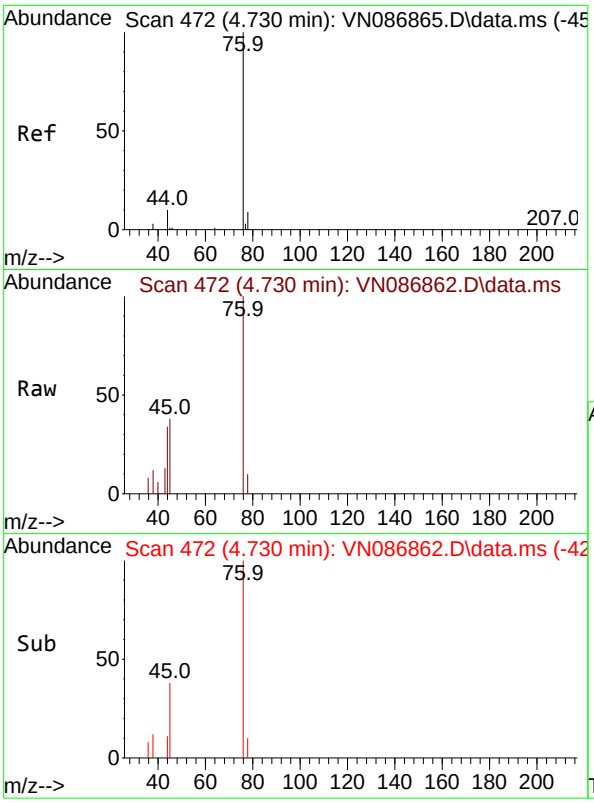


#16
Acetone
Concen: 6.006 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.011 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 43 Resp: 9069

Ion	Ratio	Lower	Upper
43	100		
58	38.0	28.0	42.0

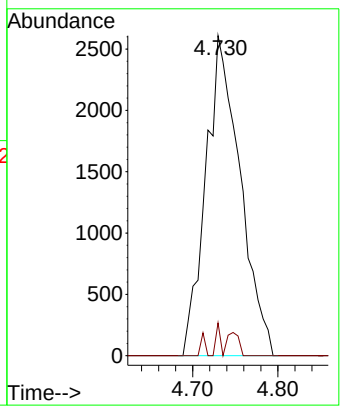




#17
Carbon Disulfide
Concen: 1.116 ug/l
RT: 4.730 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 76 Resp: 730

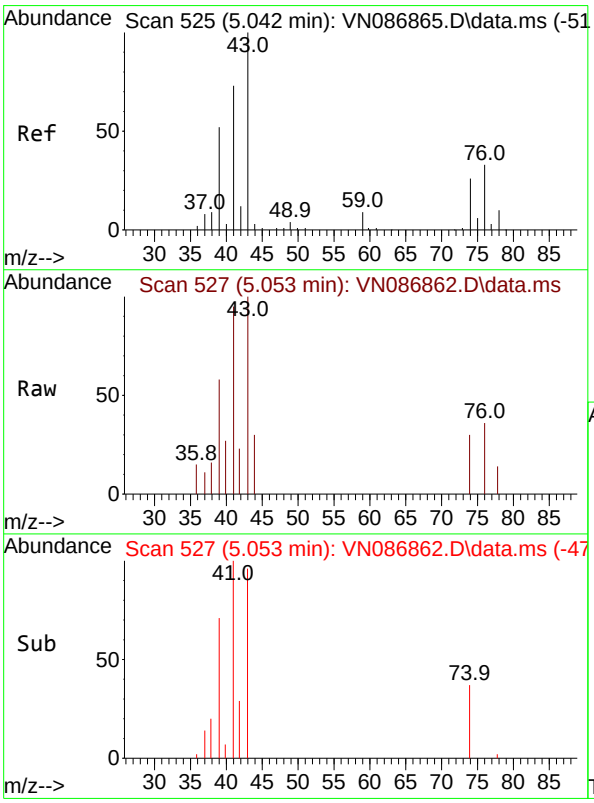
Ion	Ratio	Lower	Upper
76	100		
78	10.3	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

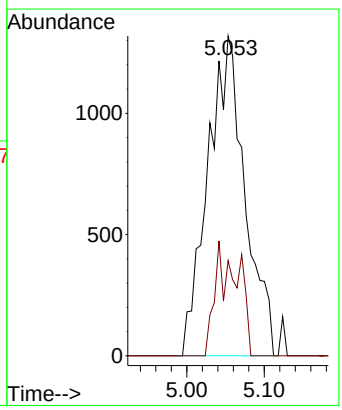
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

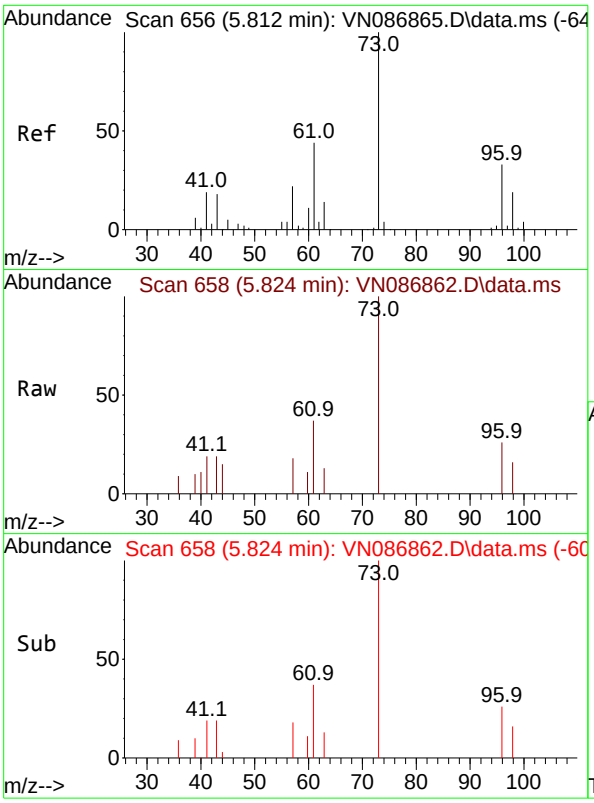


#18
Methyl Acetate
Concen: 1.000 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.011 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 43 Resp: 4402

Ion	Ratio	Lower	Upper
43	100		
74	8.7	20.7	31.1#

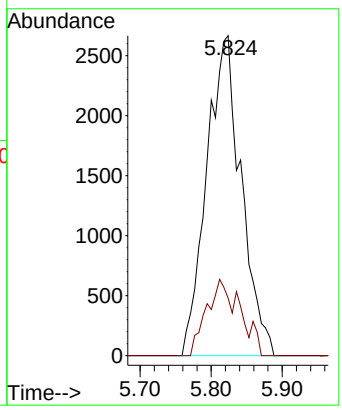




#19
Methyl tert-butyl Ether
Concen: 1.052 ug/l
RT: 5.824 min Scan# 6
Delta R.T. 0.011 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 73 Resp: 901

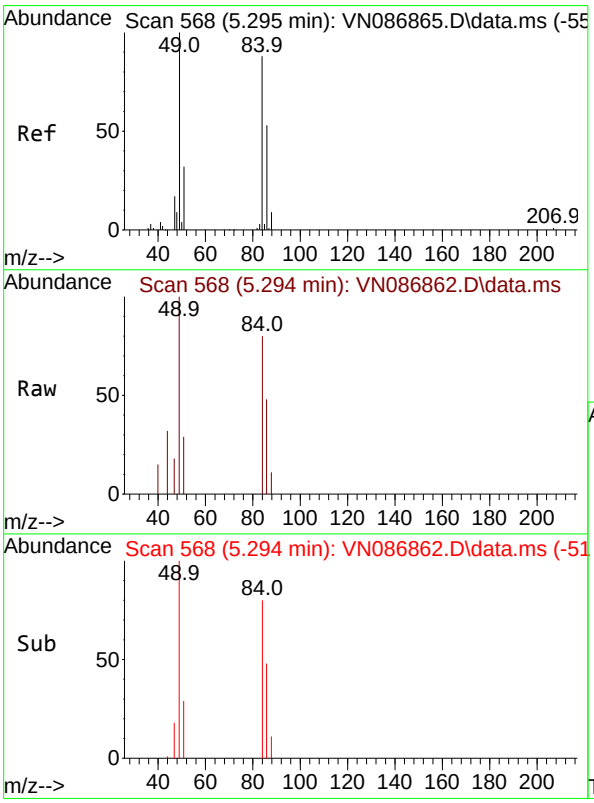
Ion	Ratio	Lower	Upper
73	100		
57	18.0	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

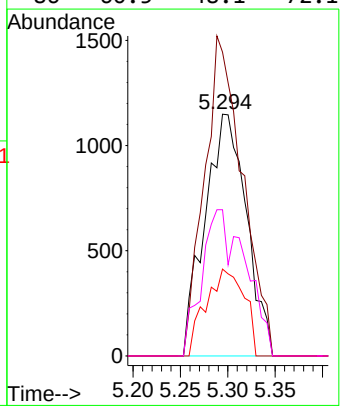
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

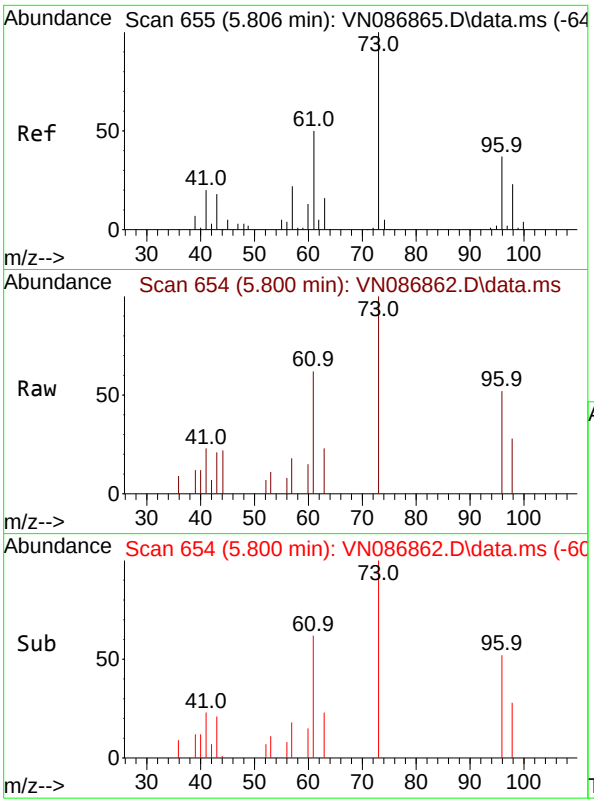


#20
Methylene Chloride
Concen: 1.237 ug/l
RT: 5.294 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 84 Resp: 3496

Ion	Ratio	Lower	Upper
84	100		
49	125.7	90.5	135.7
51	35.9	28.5	42.7
86	60.5	48.1	72.1

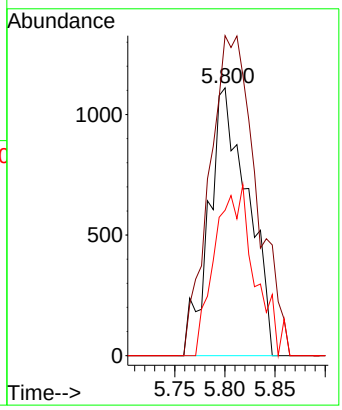




#21
trans-1,2-Dichloroethene
Concen: 1.131 ug/l
RT: 5.800 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 96 Resp: 297

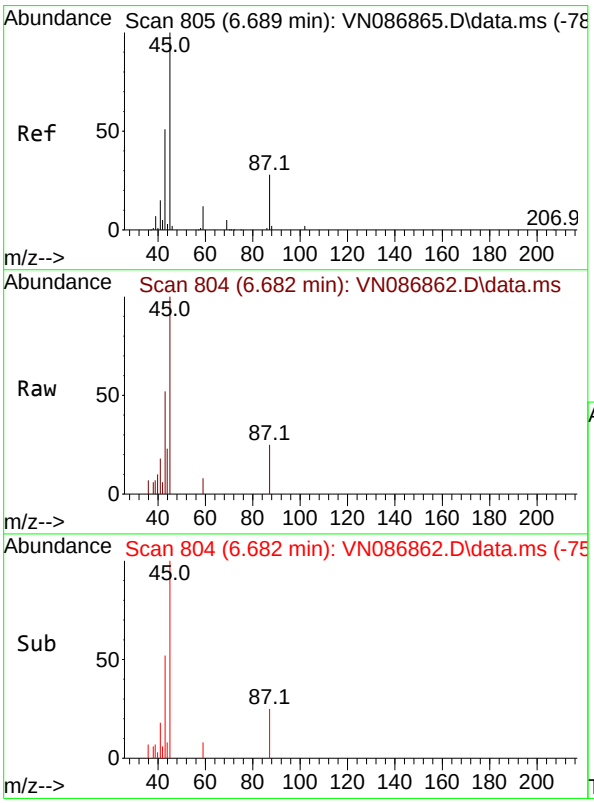
Ion	Ratio	Lower	Upper
96	100		
61	119.4	109.2	163.8
98	54.3	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

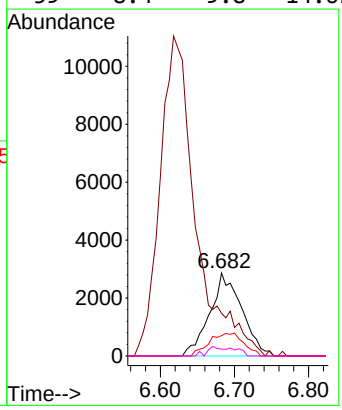
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

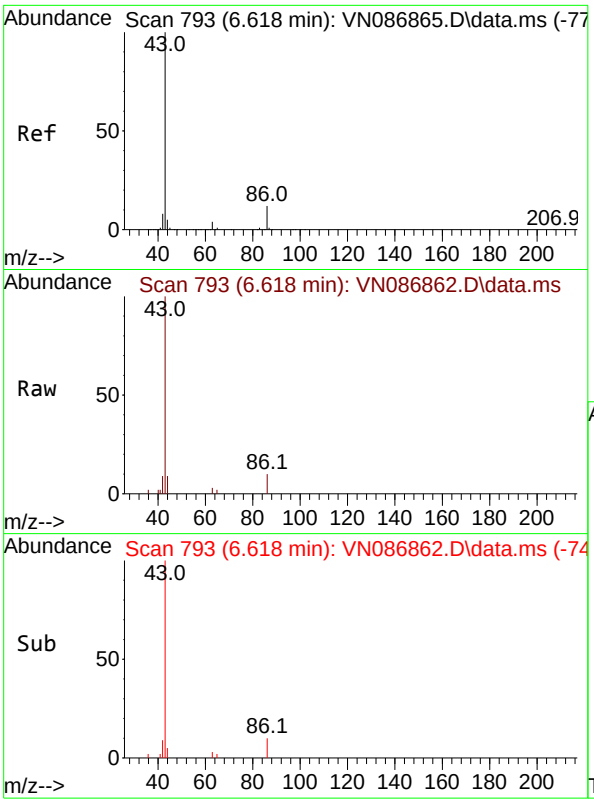


#22
Diisopropyl ether
Concen: 1.037 ug/l
RT: 6.682 min Scan# 804
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 45 Resp: 8584

Ion	Ratio	Lower	Upper
45	100		
43	51.5	41.9	62.9
87	24.5	22.4	33.6
59	8.4	9.8	14.6#





#23
Vinyl Acetate
Concen: 5.303 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

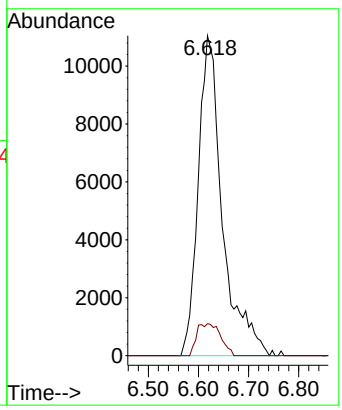
Tgt Ion: 43 Resp: 3707

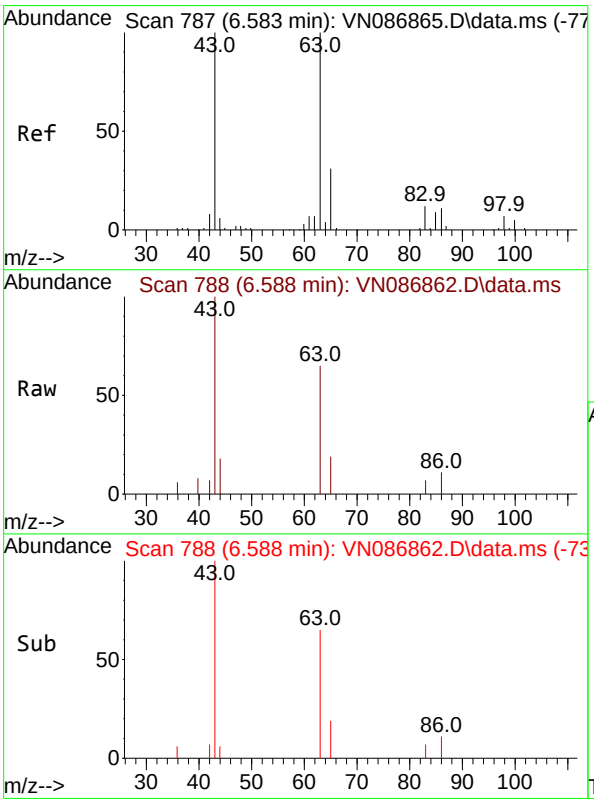
Ion	Ratio	Lower	Upper
43	100		
86	10.0	9.5	14.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

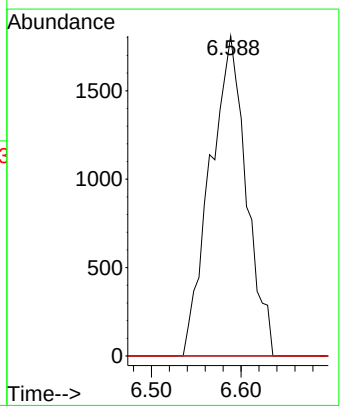


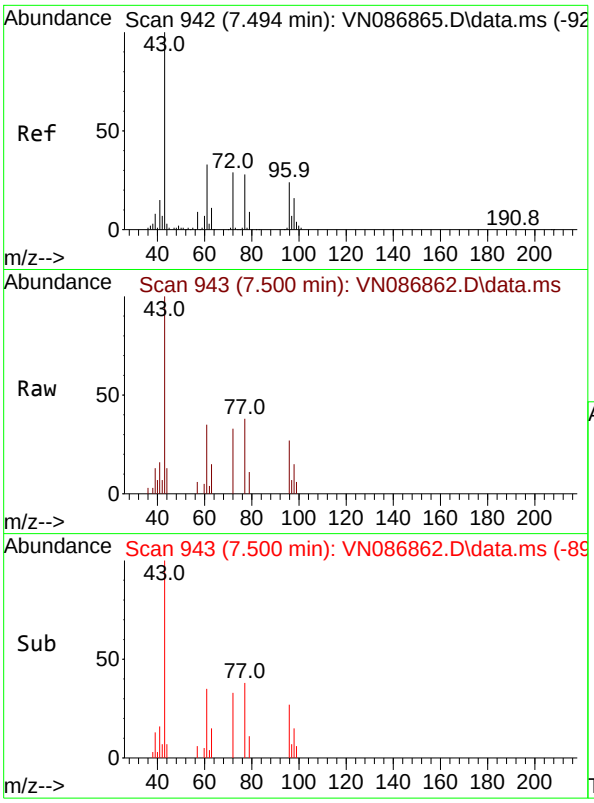


#24
1,1-Dichloroethane
Concen: 1.065 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 63 Resp: 5071

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.6	10.8#
100	0.0	2.6	7.8#





#25
2-Butanone
Concen: 5.231 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

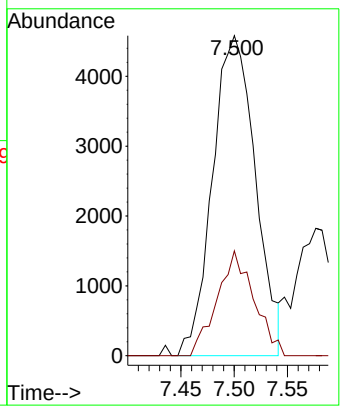
Tgt Ion: 43 Resp: 1284

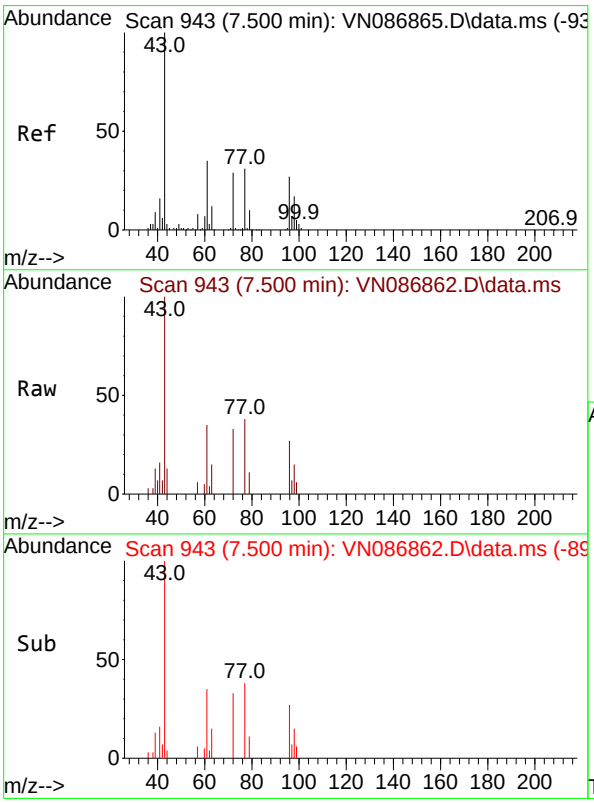
Ion	Ratio	Lower	Upper
43	100		
72	32.7	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

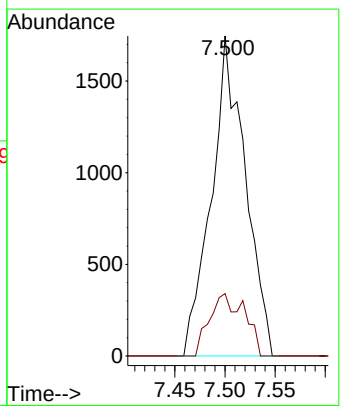


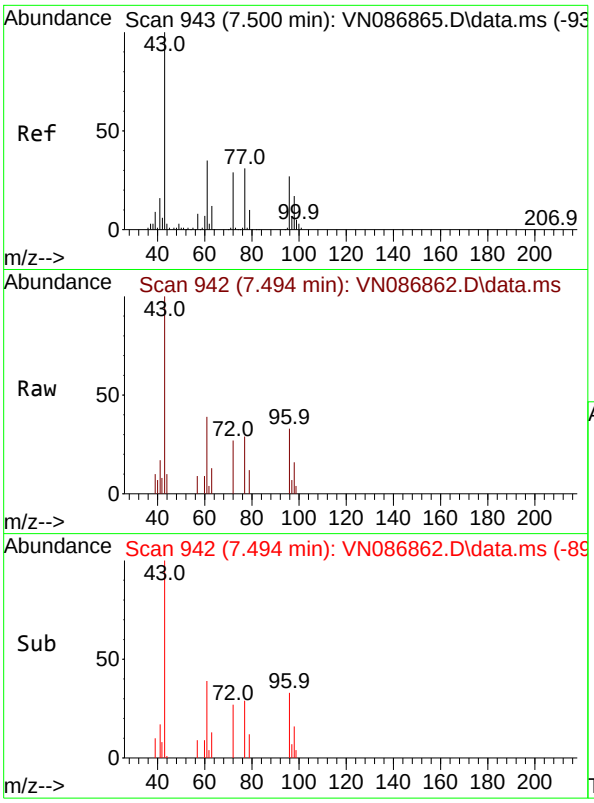


#26
2,2-Dichloropropane
Concen: 1.110 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 77 Resp: 4112

Ion	Ratio	Lower	Upper
77	100		
97	20.1	11.6	34.7

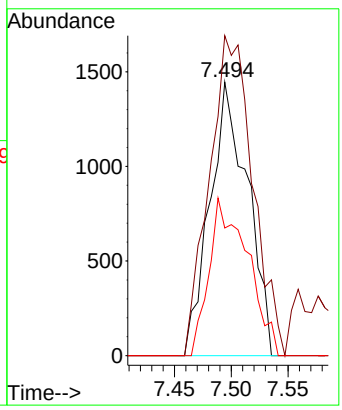




#27
cis-1,2-Dichloroethene
Concen: 1.062 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 96 Resp: 334

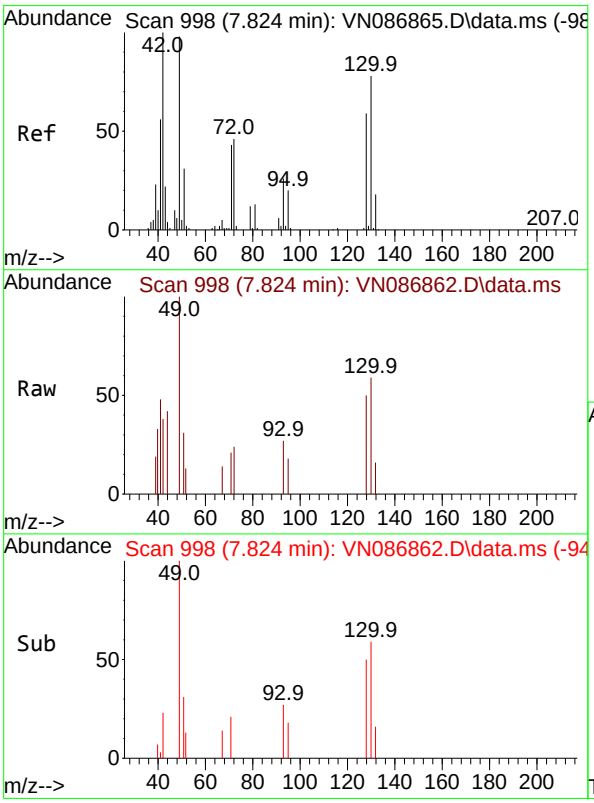
Ion	Ratio	Lower	Upper
96	100		
61	134.6	0.0	278.0
98	58.7	0.0	128.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

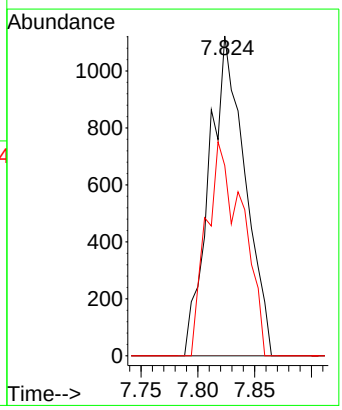
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

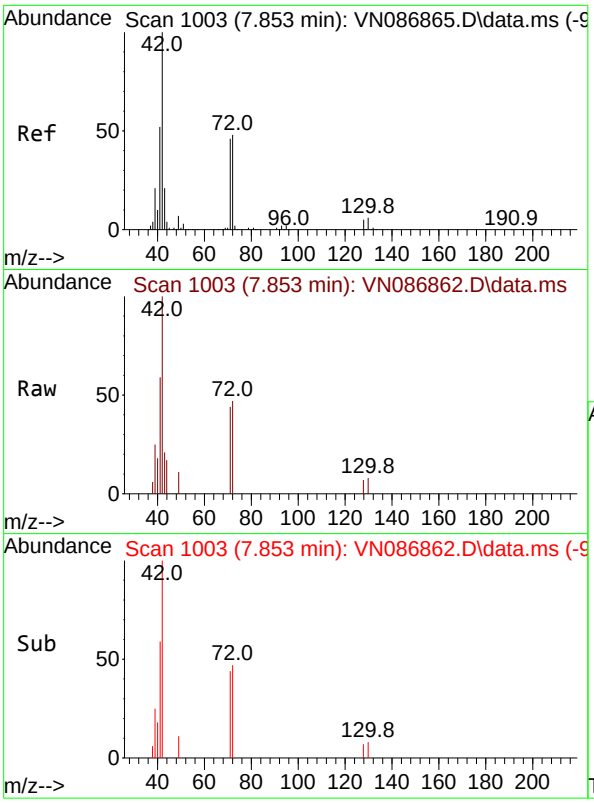


#28
Bromochloromethane
Concen: 1.052 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 49 Resp: 2464

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	67.5	62.2	93.2

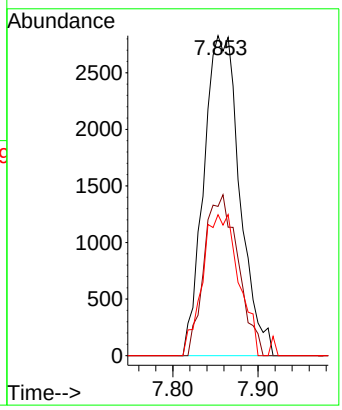




#29
Tetrahydrofuran
Concen: 5.191 ug/l
RT: 7.853 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 42 Resp: 830

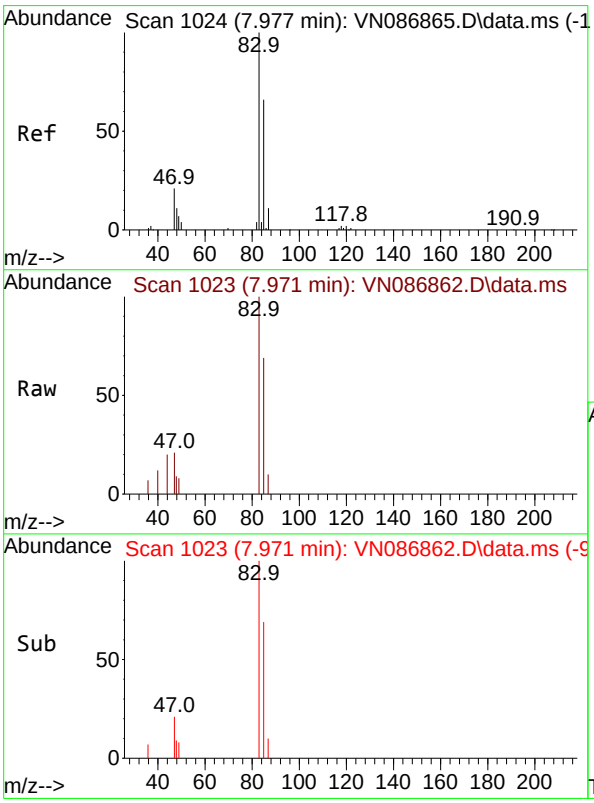
Ion	Ratio	Lower	Upper
42	100		
72	47.2	37.8	56.6
71	44.4	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

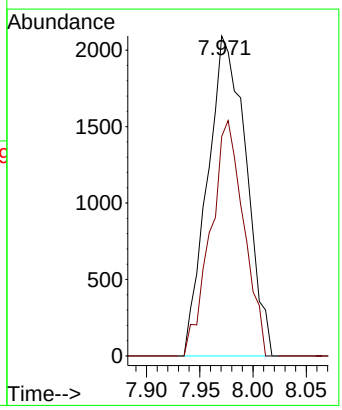
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

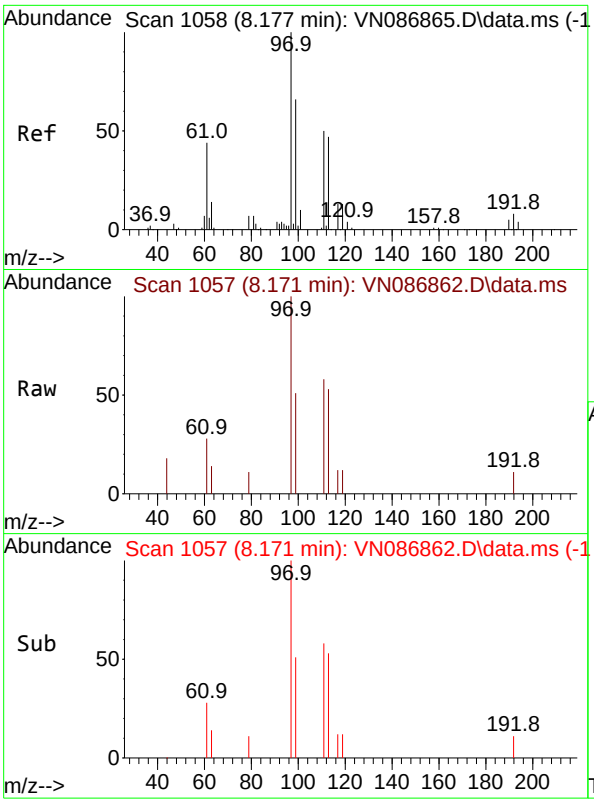


#30
Chloroform
Concen: 1.105 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 83 Resp: 5255

Ion	Ratio	Lower	Upper
83	100		
85	68.6	52.9	79.3

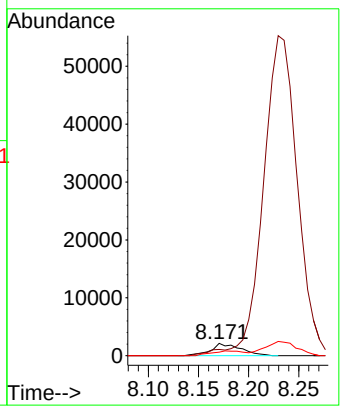




#32
1,1,1-Trichloroethane
Concen: 1.082 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 97 Resp: 437

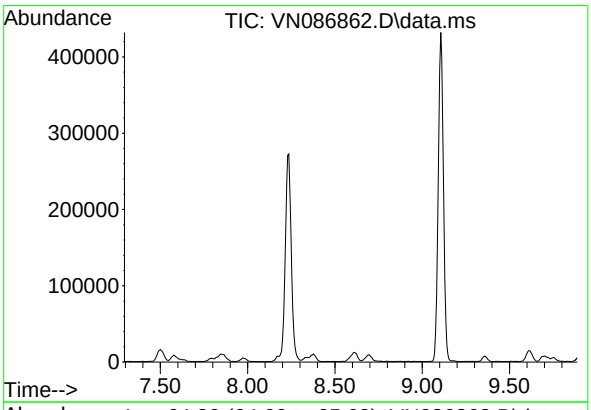
Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.0	78.0
61	42.5	35.9	53.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

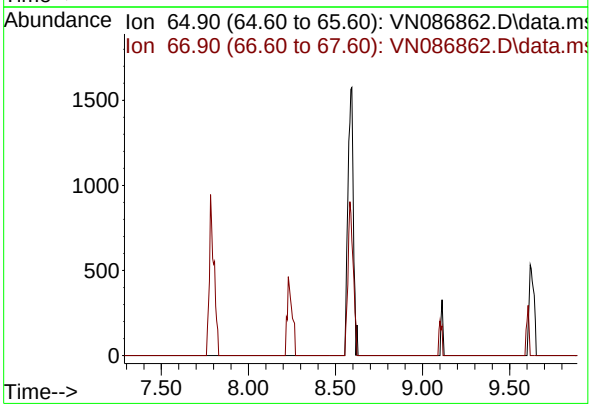


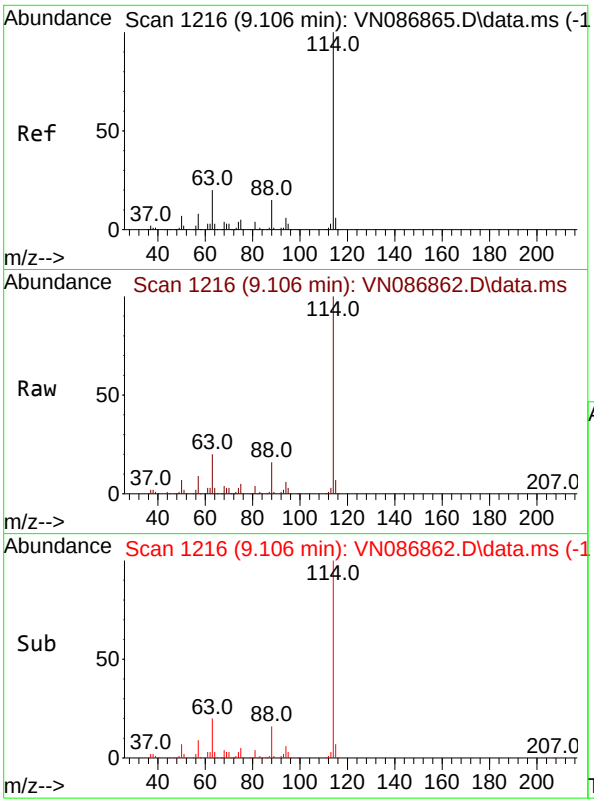
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.59 min

Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	52.8





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

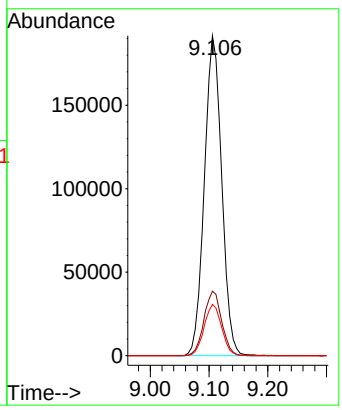
Tgt Ion:114 Resp: 39345

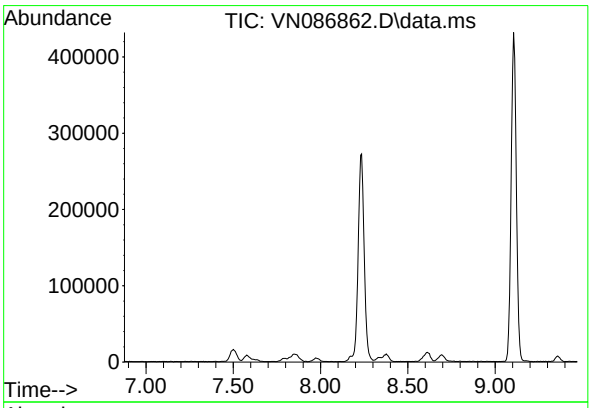
Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	39.6
88	16.0	0.0	30.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



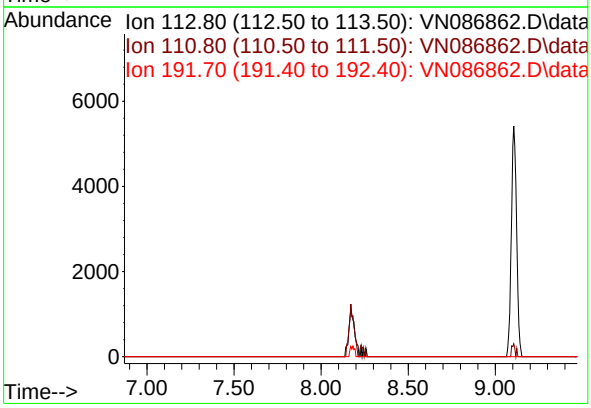


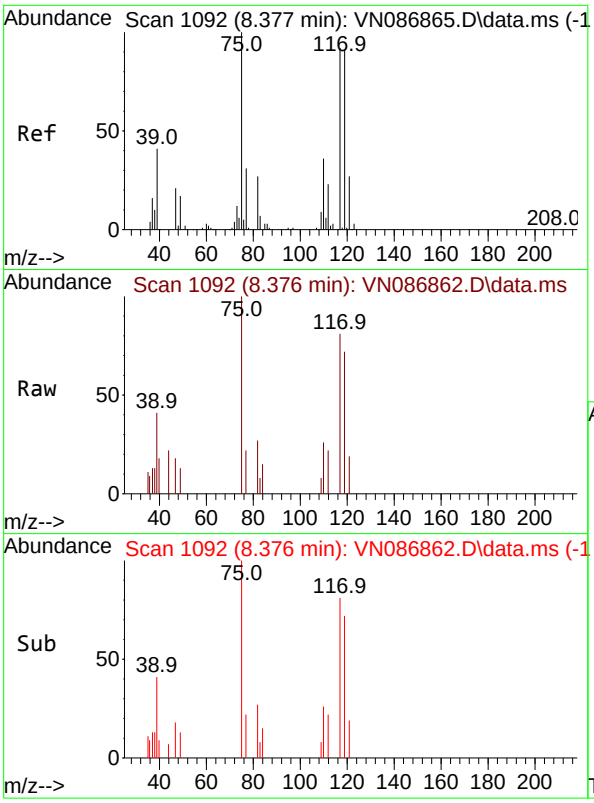
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 8.17 min

Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	105.2
192	17.8

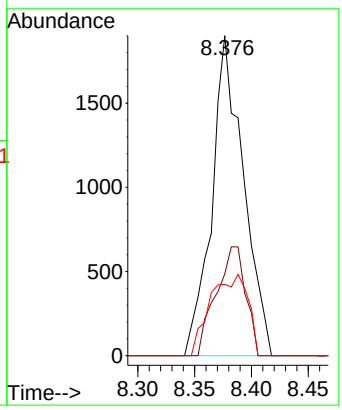




#36
1,1-Dichloropropene
Concen: 1.059 ug/l
RT: 8.376 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 75 Resp: 367

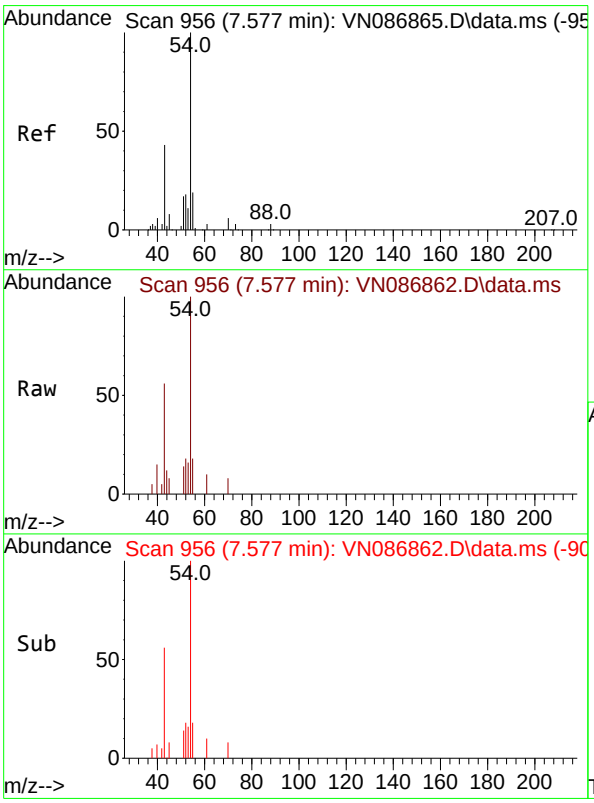
Ion	Ratio	Lower	Upper
75	100		
110	31.8	17.6	52.9
77	30.2	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

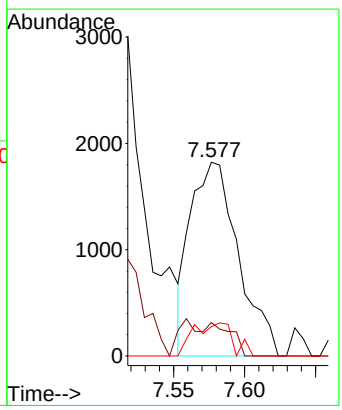
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

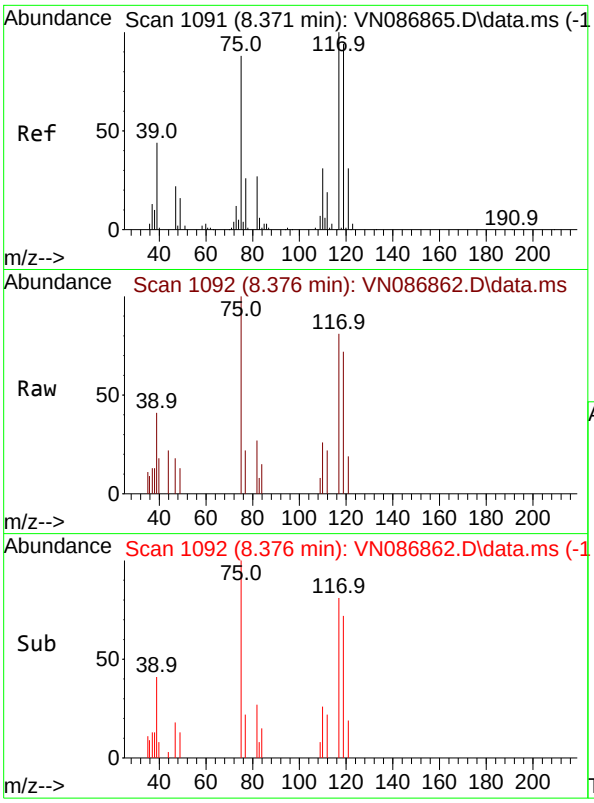


#37
Ethyl Acetate
Concen: 0.968 ug/l
RT: 7.577 min Scan# 956
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 43 Resp: 4282

Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.1	18.1#
70	14.1	9.8	14.6

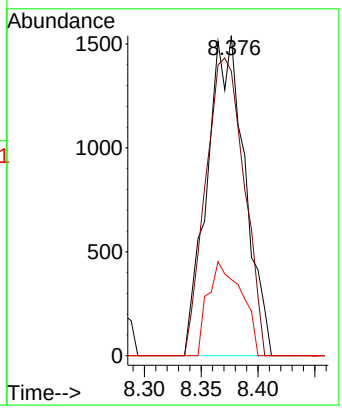




#38
Carbon Tetrachloride
Concen: 1.045 ug/l
RT: 8.376 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:117 Resp: 356

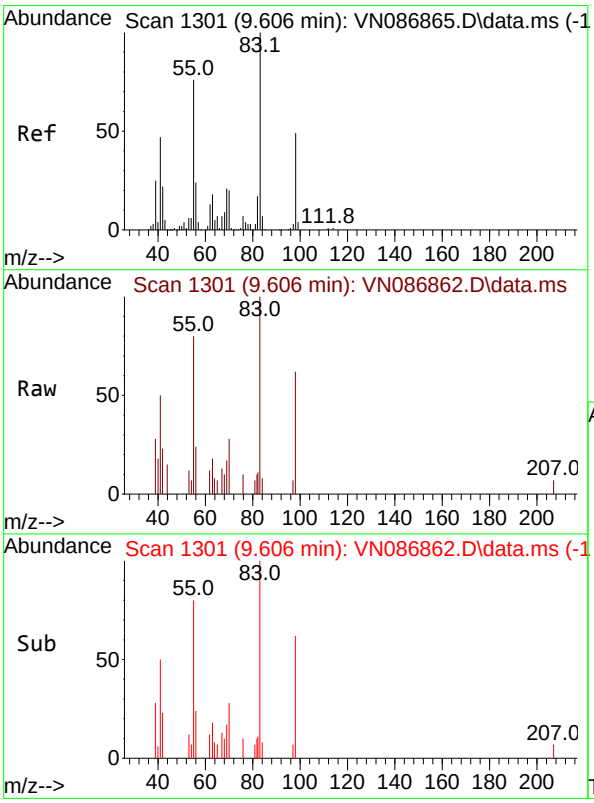
Ion	Ratio	Lower	Upper
117	100		
119	89.0	75.0	112.6
121	23.8	24.9	37.3#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

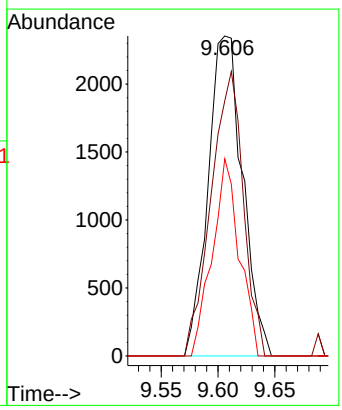
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

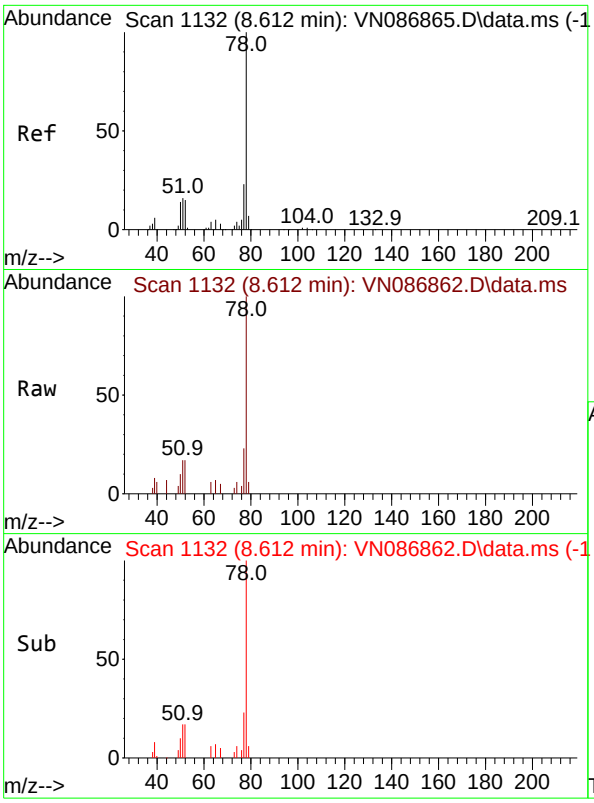


#39
Methylcyclohexane
Concen: 1.046 ug/l
RT: 9.606 min Scan# 1301
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 83 Resp: 4981

Ion	Ratio	Lower	Upper
83	100		
55	79.7	61.0	91.6
98	61.6	38.9	58.3#

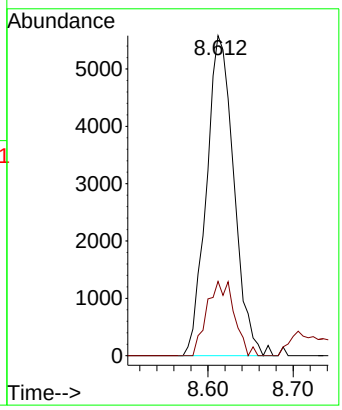




#40
Benzene
Concen: 1.100 ug/l
RT: 8.612 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 78 Resp: 1249

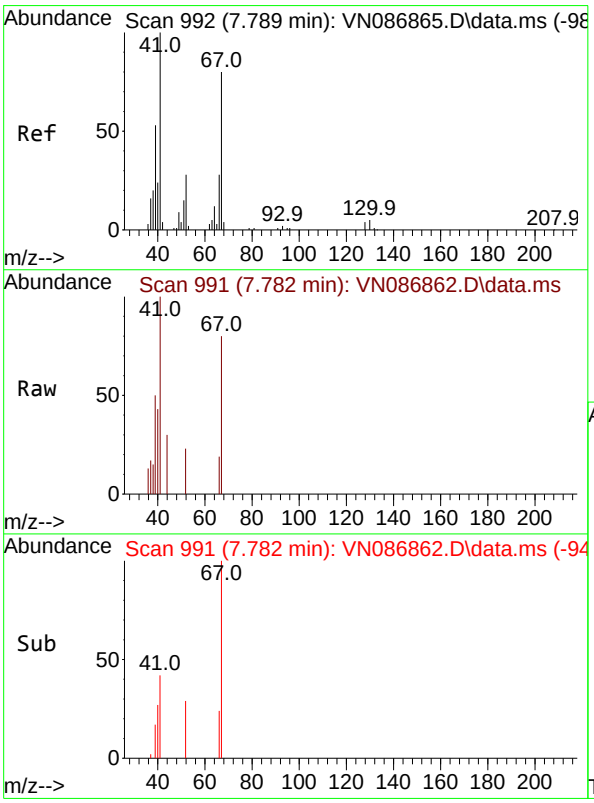
Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.7	28.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

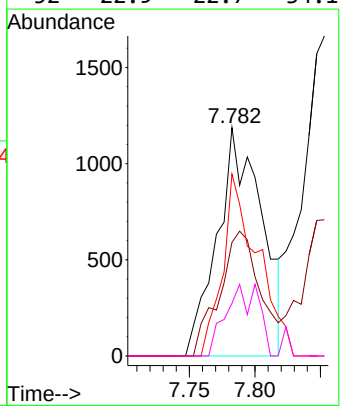
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

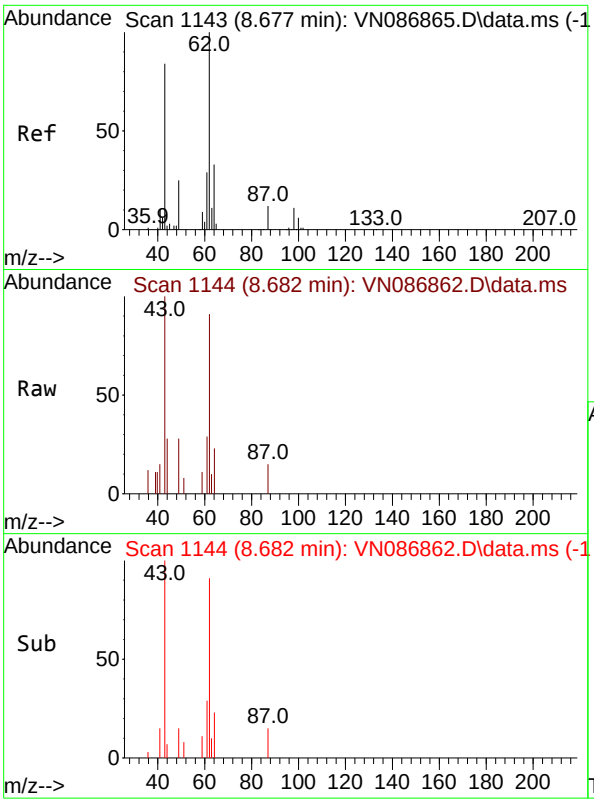


#41
Methacrylonitrile
Concen: 1.127 ug/l
RT: 7.782 min Scan# 991
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 41 Resp: 2799

Ion	Ratio	Lower	Upper
41	100		
39	50.3	41.2	61.8
67	62.4	61.4	92.2
52	22.9	22.7	34.1





#42
1,2-Dichloroethane
Concen: 1.081 ug/l
RT: 8.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

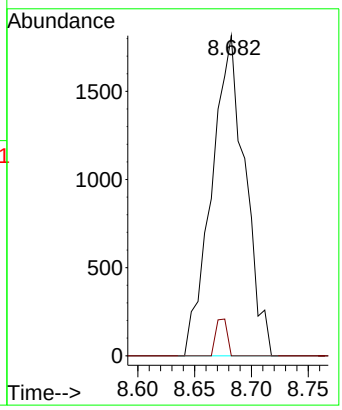
Tgt Ion: 62 Resp: 372

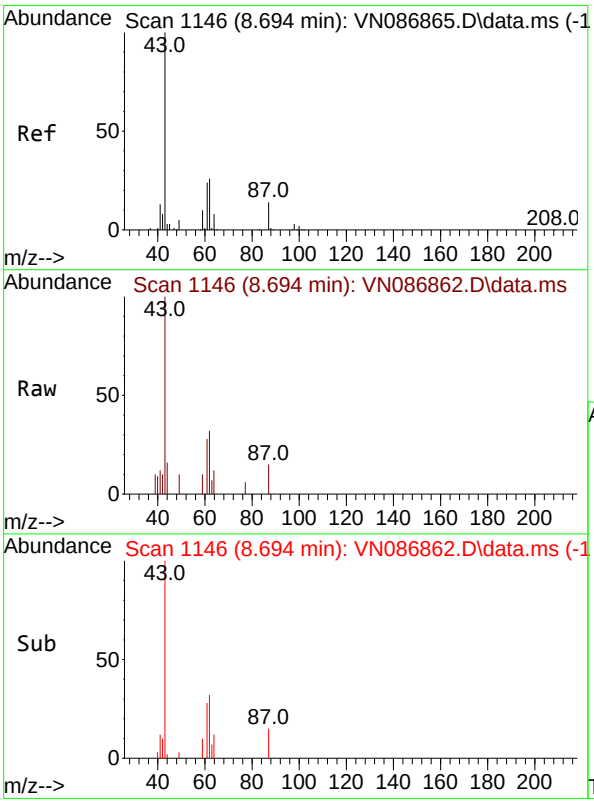
Ion	Ratio	Lower	Upper
62	100		
98	3.9	0.0	21.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

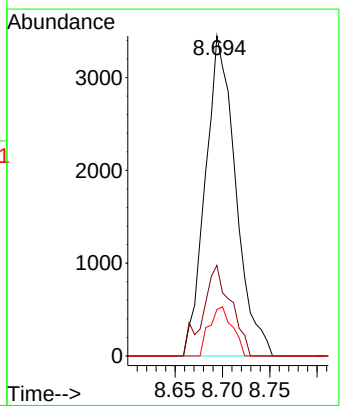


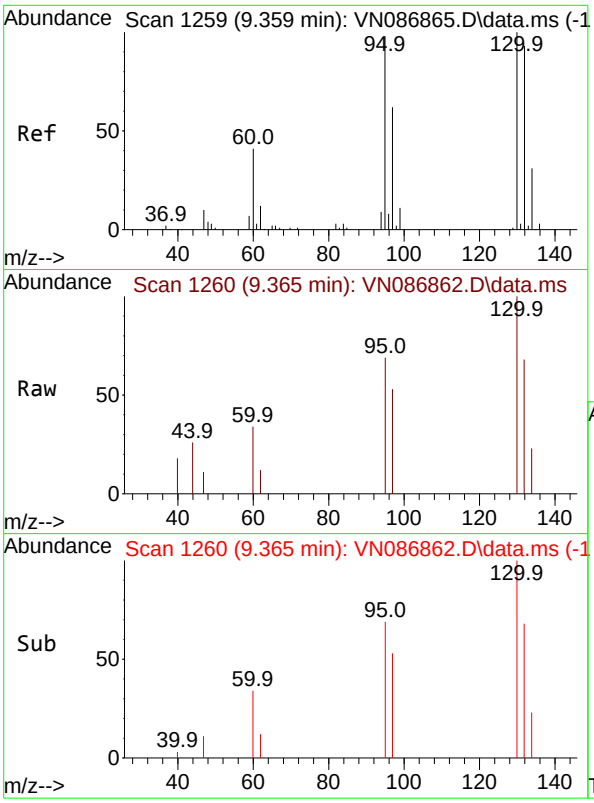


#43
Isopropyl Acetate
Concen: 1.081 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 43 Resp: 7673

Ion	Ratio	Lower	Upper
43	100		
61	26.2	22.1	33.1
87	11.7	11.8	17.6#

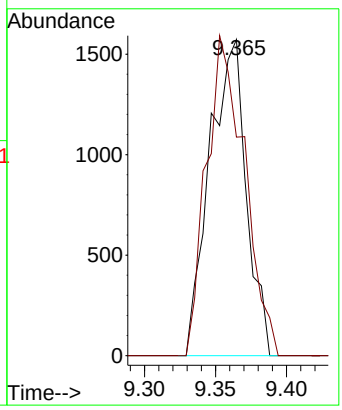




#44
Trichloroethene
Concen: 1.047 ug/l
RT: 9.365 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:130 Resp: 282

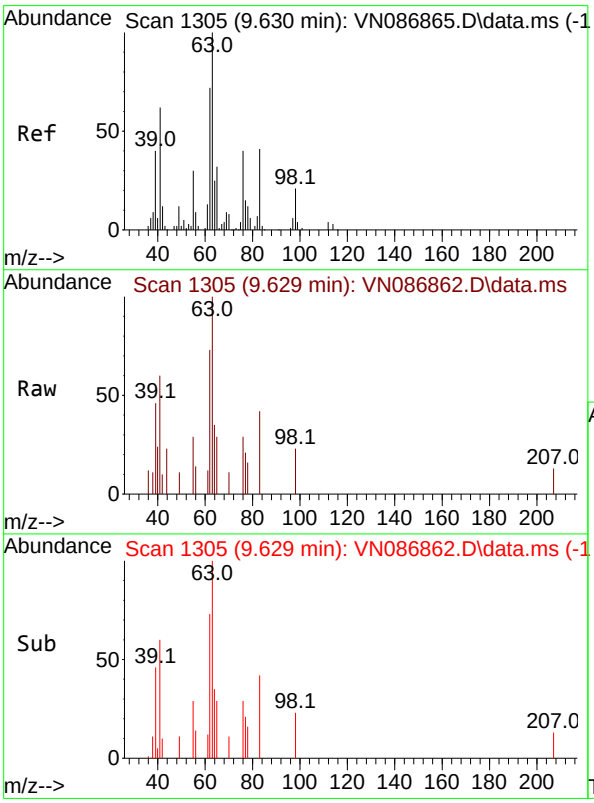
Ion	Ratio	Lower	Upper
130	100		
95	69.1	0.0	196.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

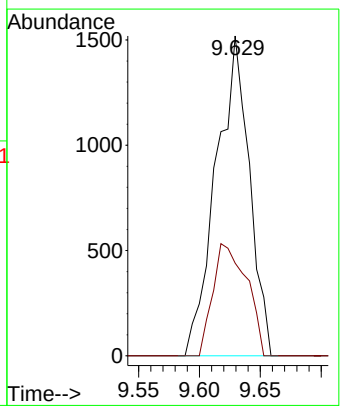
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

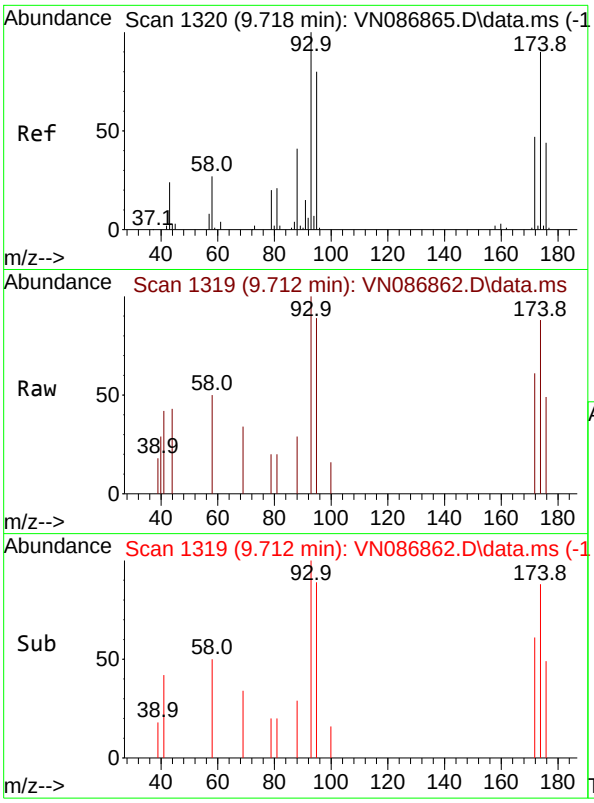


#45
1,2-Dichloropropane
Concen: 1.043 ug/l
RT: 9.629 min Scan# 1305
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 63 Resp: 2883

Ion	Ratio	Lower	Upper
63	100		
65	29.0	25.5	38.3

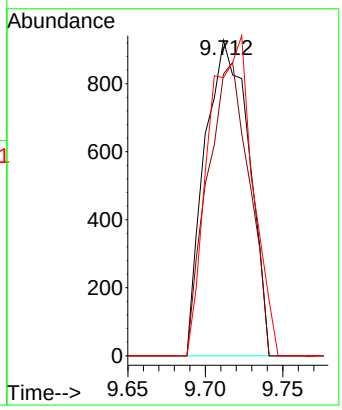




#46
Dibromomethane
Concen: 0.999 ug/l
RT: 9.712 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 93 Resp: 183

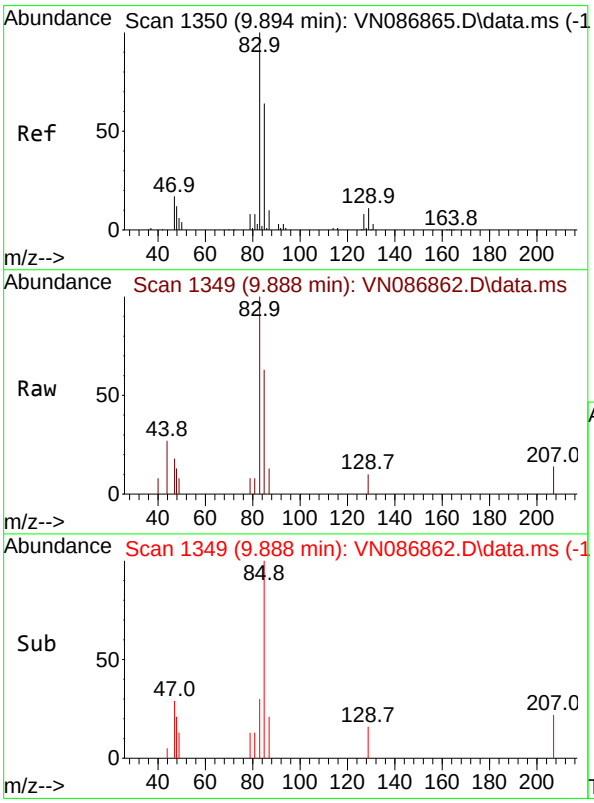
Ion	Ratio	Lower	Upper
93	100		
95	87.6	67.1	100.7
174	100.5	74.2	111.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

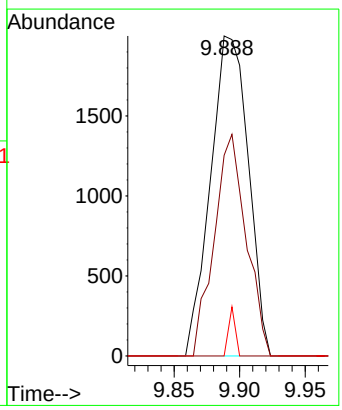
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

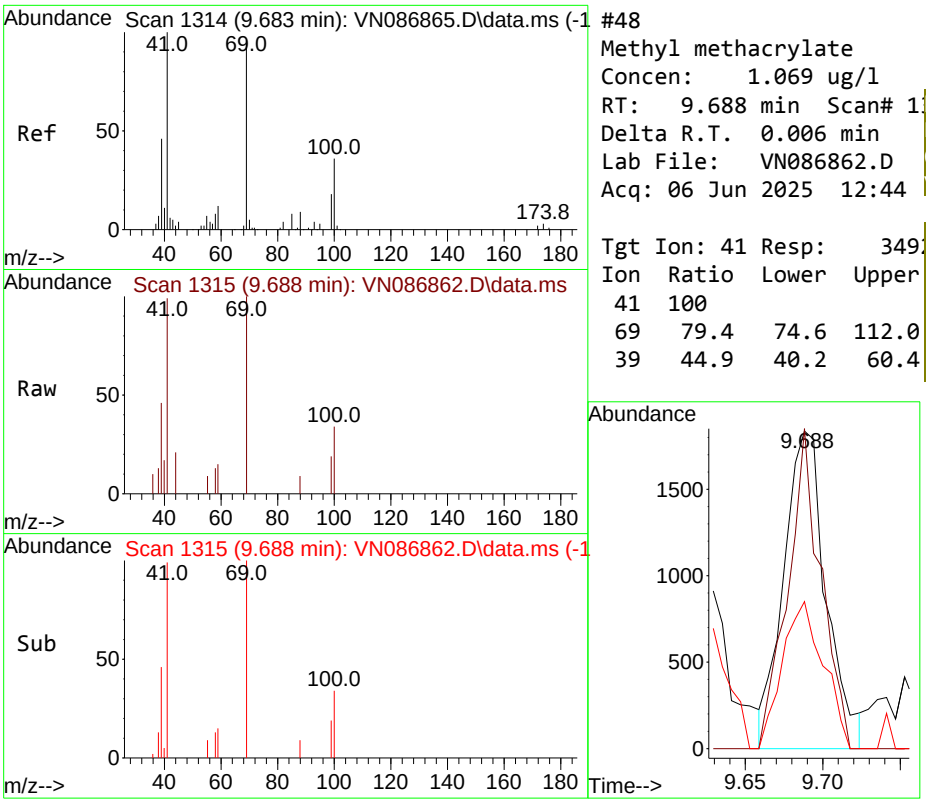


#47
Bromodichloromethane
Concen: 1.063 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 83 Resp: 4017

Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.9	76.3
127	0.0	6.6	10.0#





#48
Methyl methacrylate
Concen: 1.069 ug/l
RT: 9.688 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

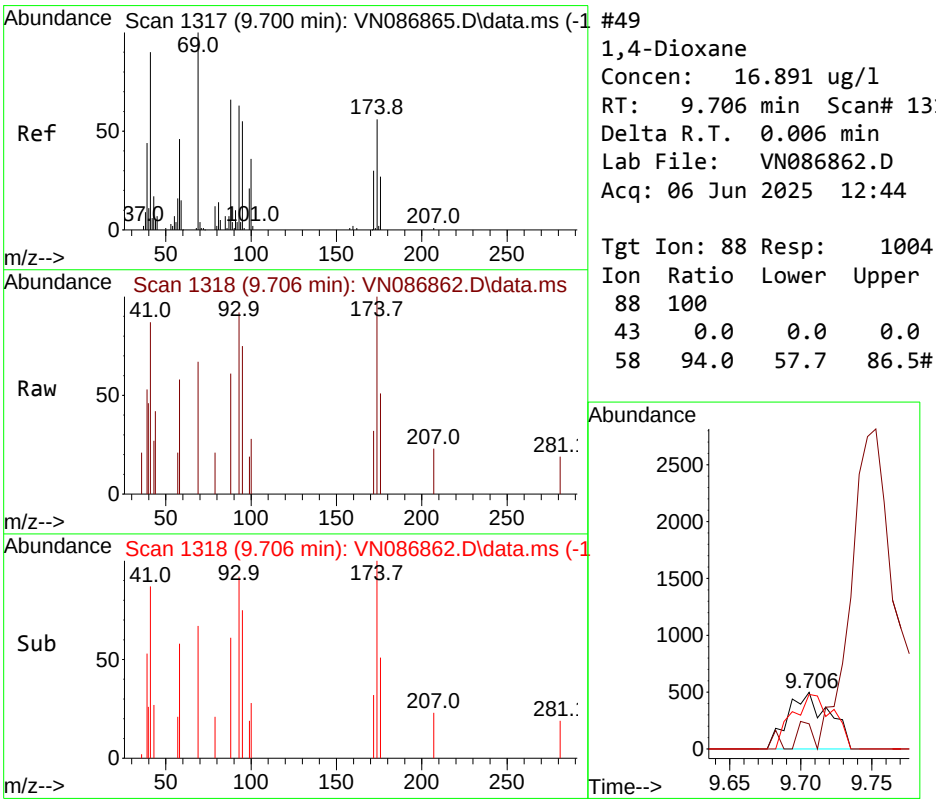
Tgt Ion: 41 Resp: 349

Ion	Ratio	Lower	Upper
41	100		
69	79.4	74.6	112.0
39	44.9	40.2	60.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

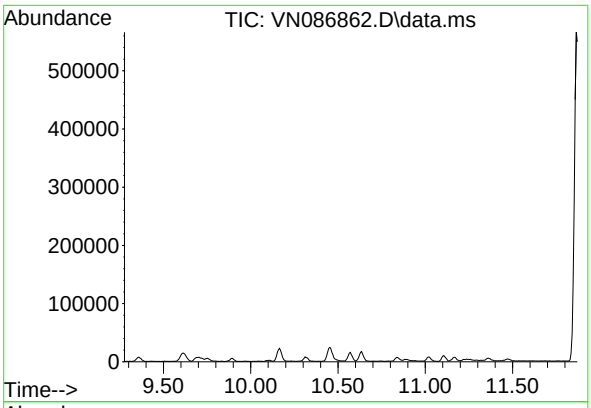
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#49
1,4-Dioxane
Concen: 16.891 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 88 Resp: 1004

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	94.0	57.7	86.5#



#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.57 min

Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

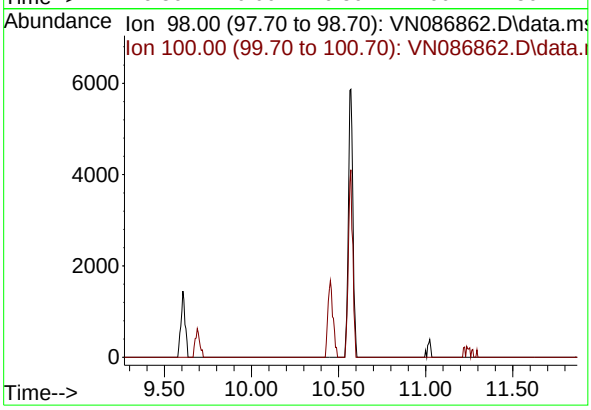
Tgt Ion: 98

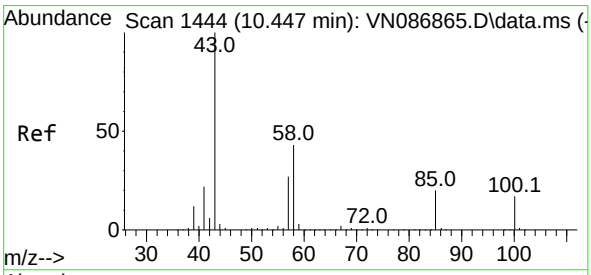
Sig	Exp Ratio
98	100
100	66.7

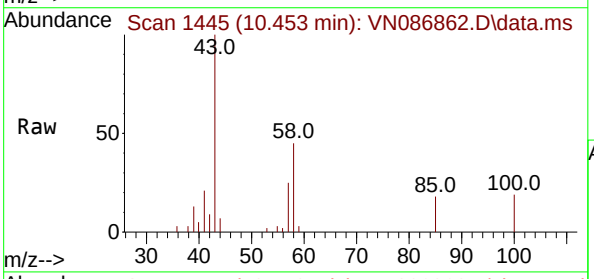
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

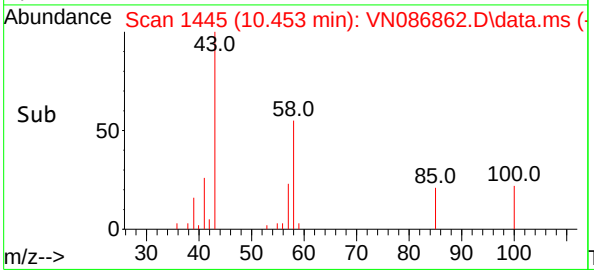
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025





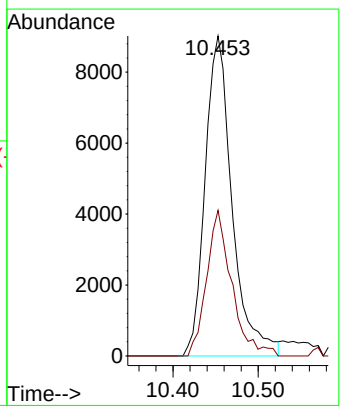


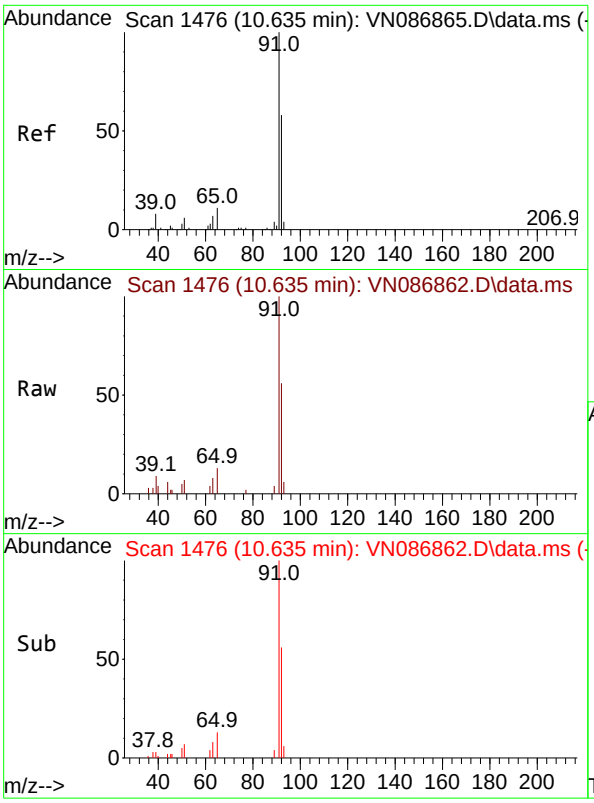


#51
4-Methyl-2-Pentanone
Concen: 4.653 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 43 Resp: 19886

Ion	Ratio	Lower	Upper
43	100		
58	42.3	34.2	51.4

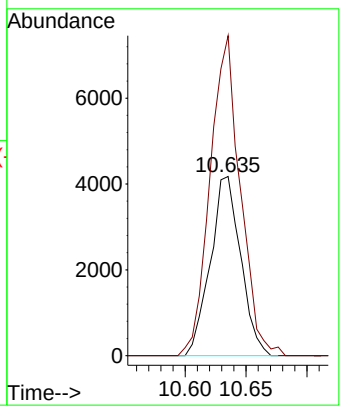




#52
Toluene
Concen: 1.041 ug/l
RT: 10.635 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 92 Resp: 722

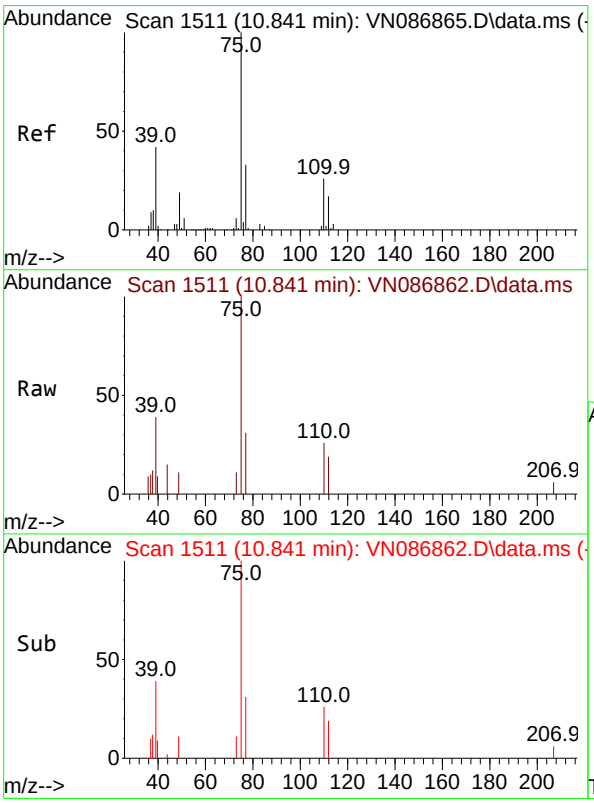
Ion	Ratio	Lower	Upper
92	100		
91	178.1	136.5	204.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

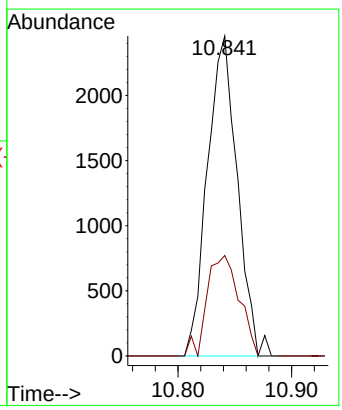
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

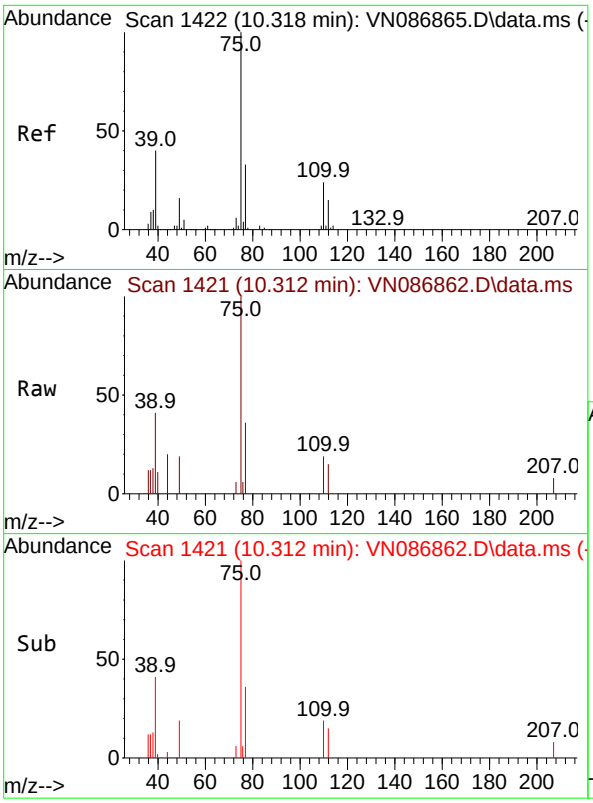


#53
t-1,3-Dichloropropene
Concen: 1.064 ug/l
RT: 10.841 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 75 Resp: 4494

Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.4	39.6

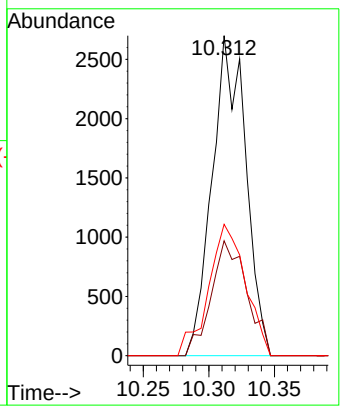




#54
cis-1,3-Dichloropropene
Concen: 1.060 ug/l
RT: 10.312 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 75 Resp: 479

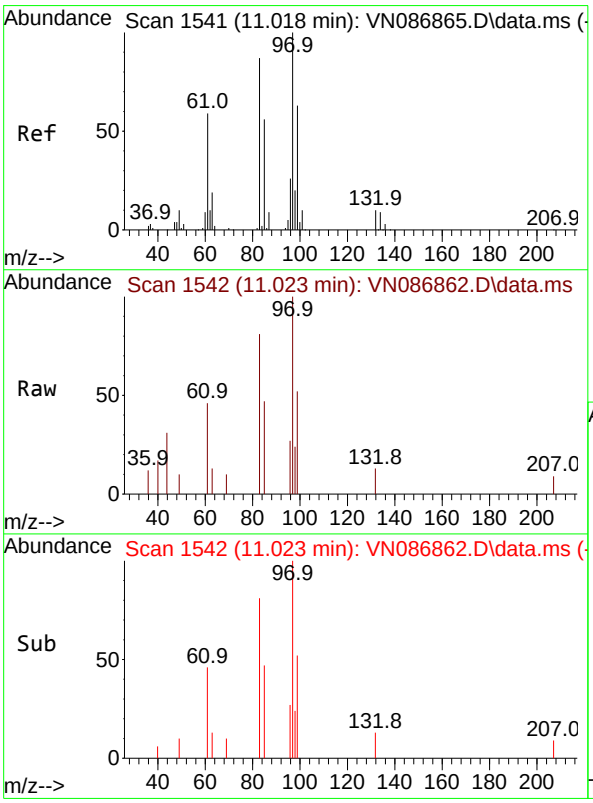
Ion	Ratio	Lower	Upper
75	100		
77	35.9	26.2	39.4
39	41.1	32.3	48.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

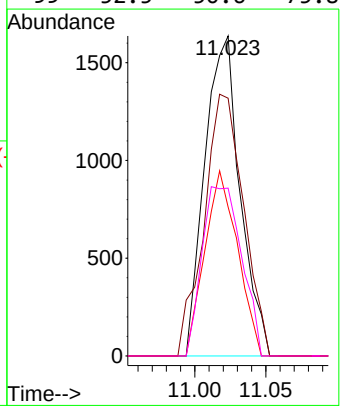
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

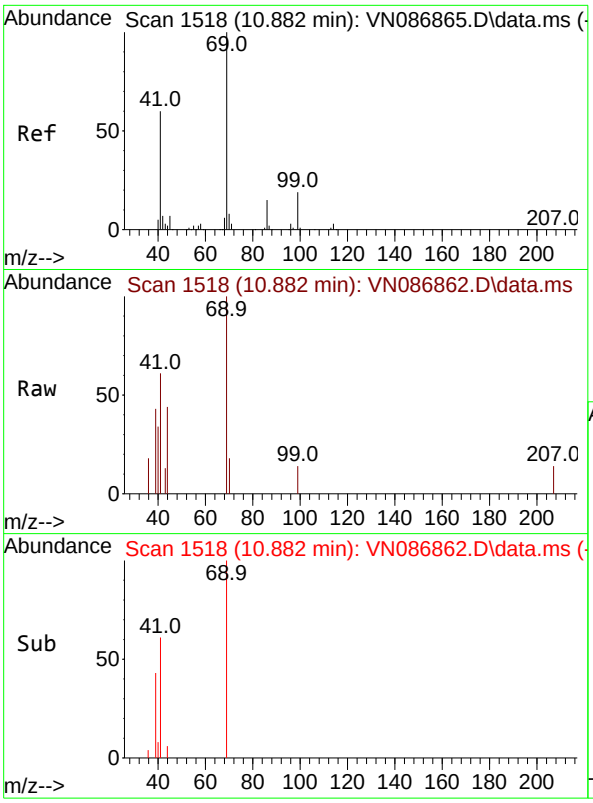


#55
1,1,2-Trichloroethane
Concen: 1.058 ug/l
RT: 11.023 min Scan# 1542
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 97 Resp: 2828

Ion	Ratio	Lower	Upper
97	100		
83	80.6	69.7	104.5
85	46.5	45.1	67.7
99	52.5	50.6	75.8





#56
Ethyl methacrylate
Concen: 0.800 ug/l
RT: 10.882 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

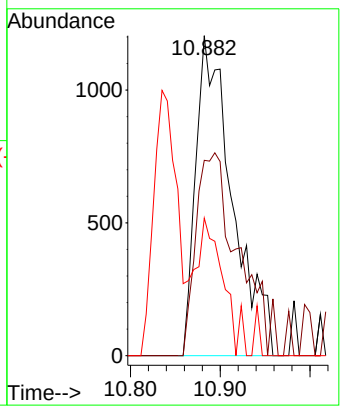
Tgt Ion: 69 Resp: 340

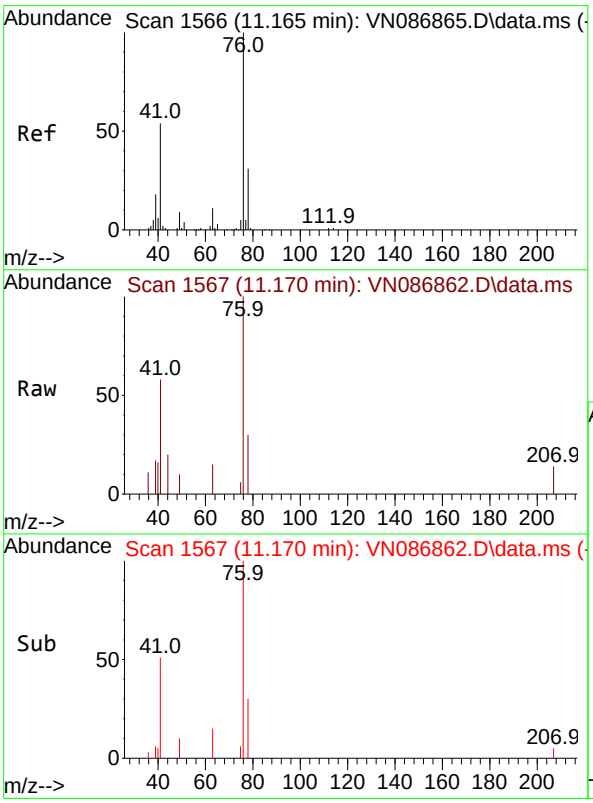
Ion	Ratio	Lower	Upper
69	100		
41	73.5	47.2	70.8
39	31.6	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

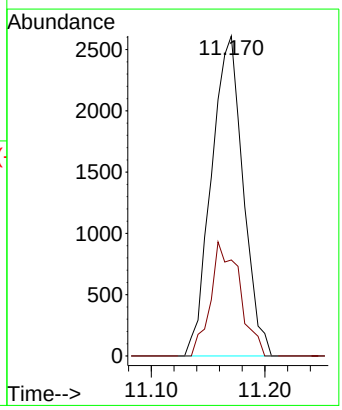


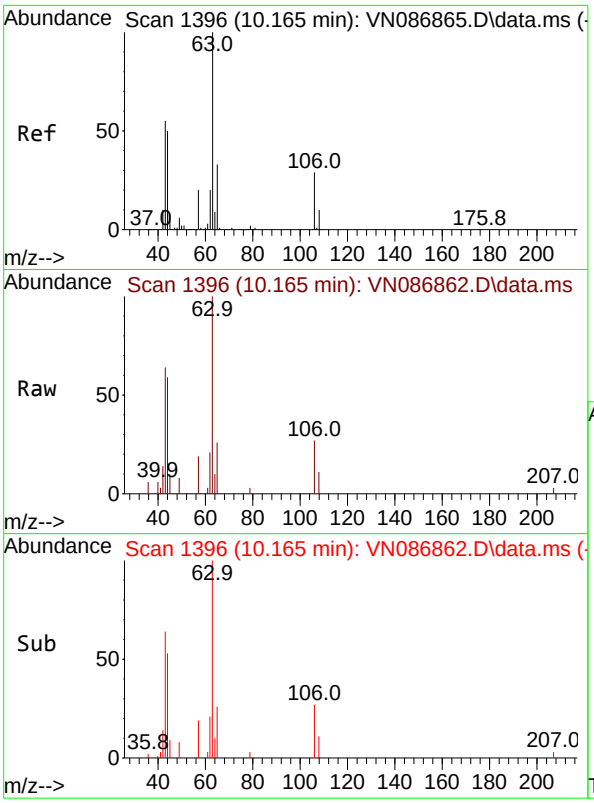


#57
1,3-Dichloropropane
Concen: 1.092 ug/l
RT: 11.170 min Scan# 1567
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 76 Resp: 5062

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.3	37.9





#58
2-Chloroethyl Vinyl ether
Concen: 4.304 ug/l
RT: 10.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

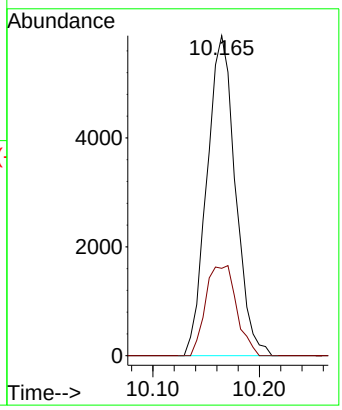
Tgt Ion: 63 Resp: 1092

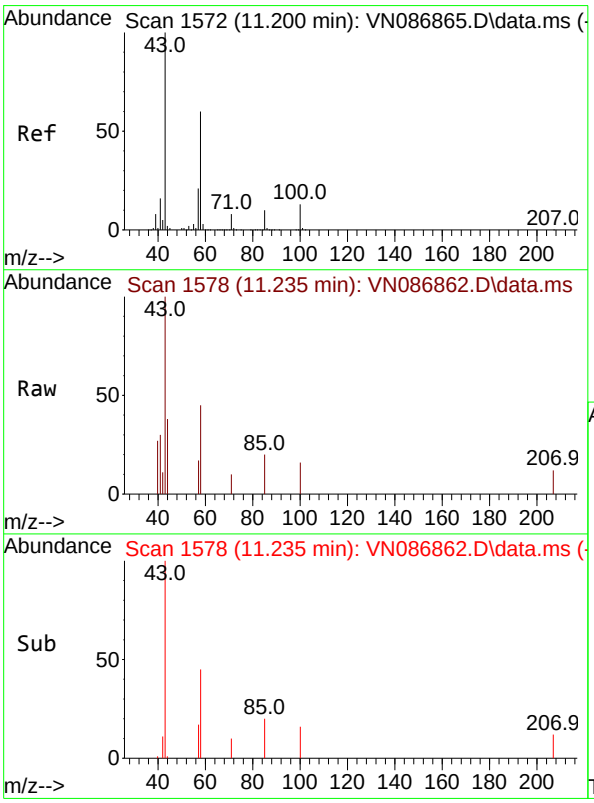
Ion	Ratio	Lower	Upper
63	100		
106	30.4	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

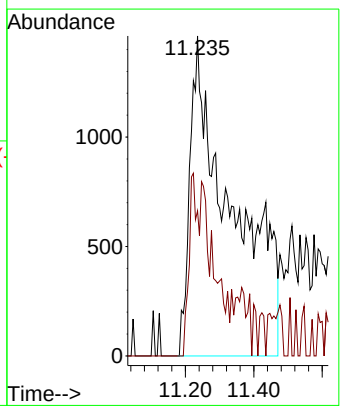


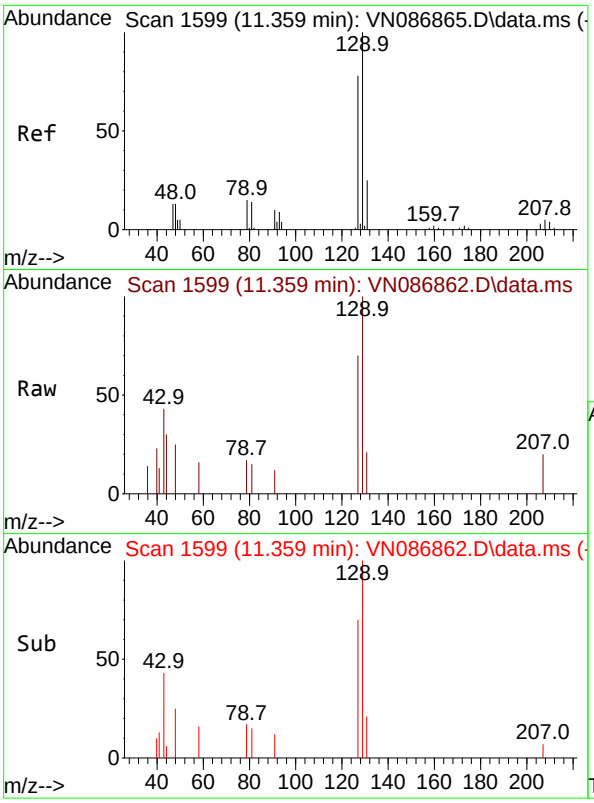


#59
2-Hexanone
Concen: 4.466 ug/l m
RT: 11.235 min Scan# 1578
Delta R.T. 0.035 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 43 Resp: 12295

Ion	Ratio	Lower	Upper
43	100		
58	4.7	30.4	91.3#

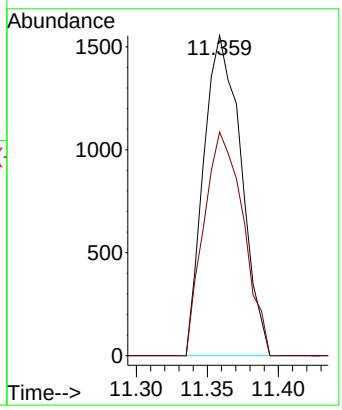




#60
Dibromochloromethane
Concen: 1.021 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:129 Resp: 284

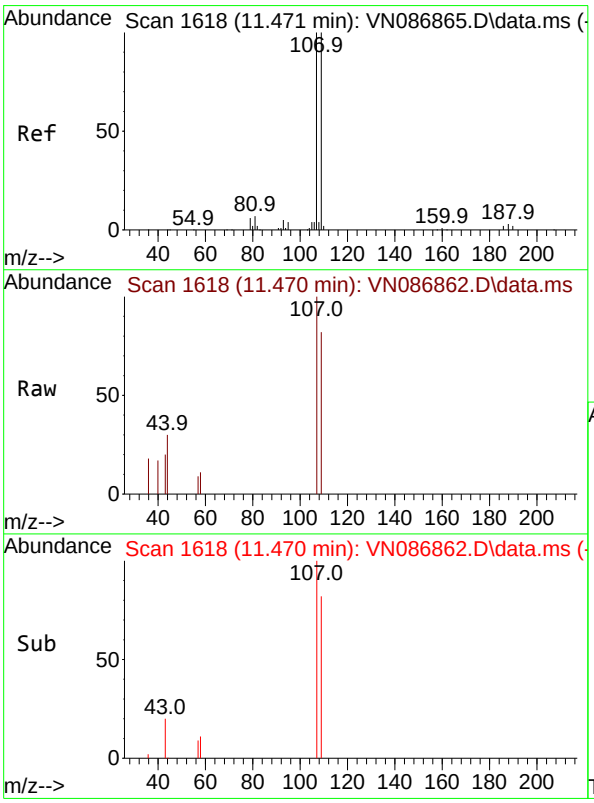
Ion	Ratio	Lower	Upper
129	100		
127	73.8	38.6	115.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

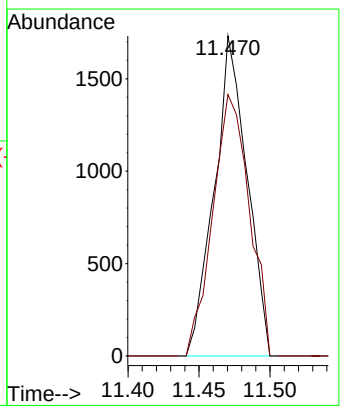
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

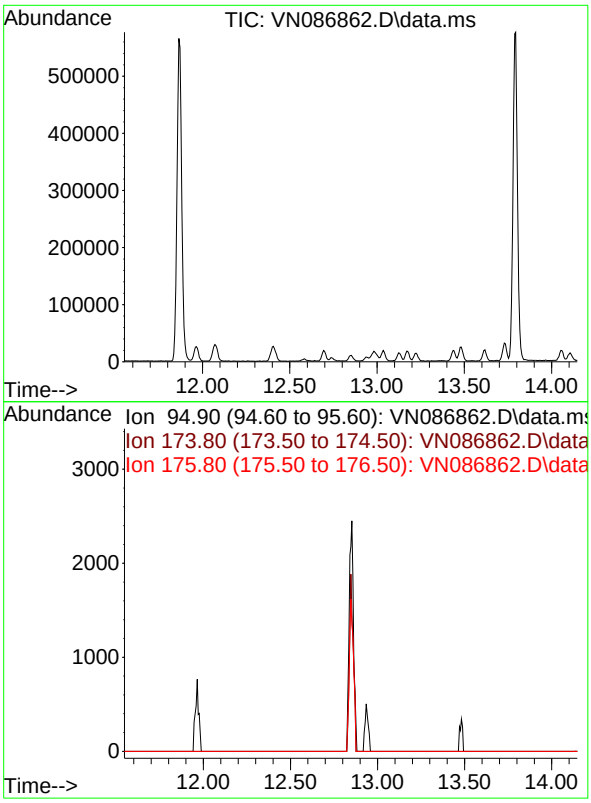


#61
1,2-Dibromoethane
Concen: 1.014 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:107 Resp: 2777

Ion	Ratio	Lower	Upper
107	100		
109	91.2	76.3	114.5





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.85 min

Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

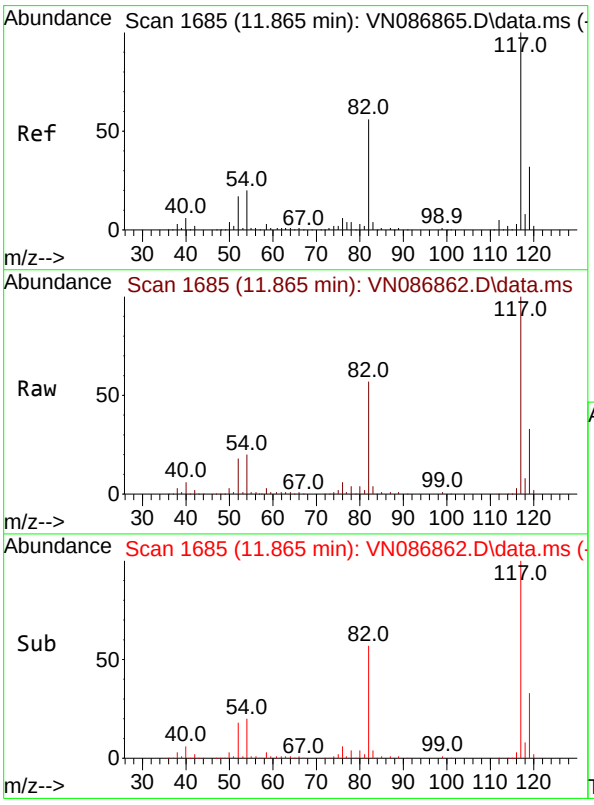
Tgt Ion: 95

Sig	Exp Ratio
95	100
174	70.9
176	66.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

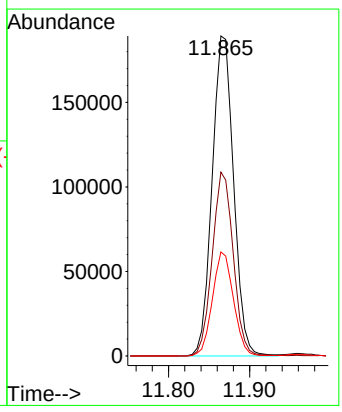
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

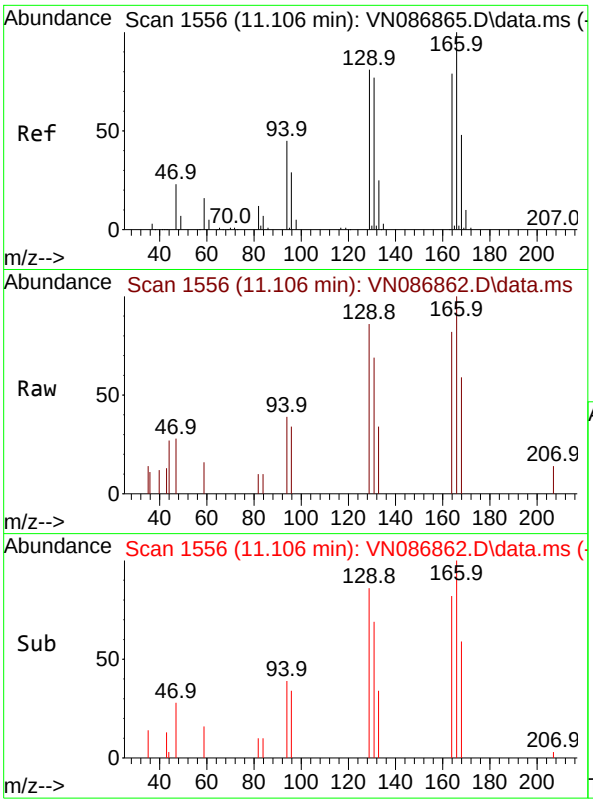


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:117 Resp: 348010

Ion	Ratio	Lower	Upper
117	100		
82	57.5	44.6	67.0
119	32.5	25.5	38.3

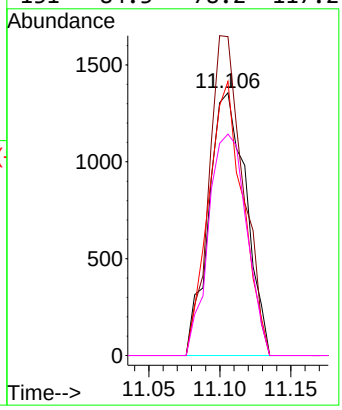




#64
Tetrachloroethene
Concen: 1.123 ug/l
RT: 11.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:164 Resp: 247

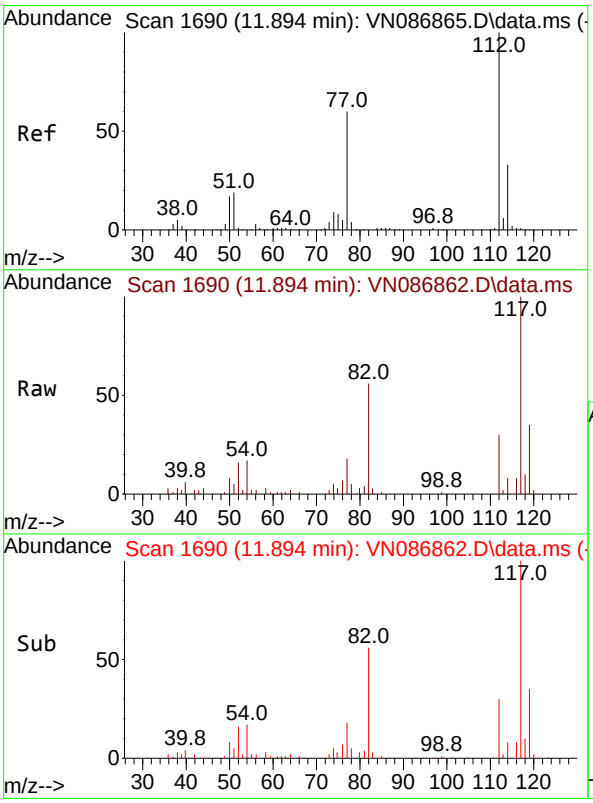
Ion	Ratio	Lower	Upper
164	100		
166	121.4	101.8	152.8
129	104.4	83.0	124.4
131	84.3	78.2	117.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

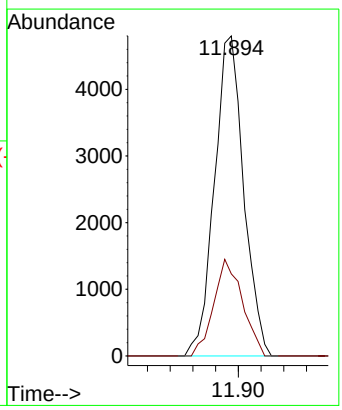
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

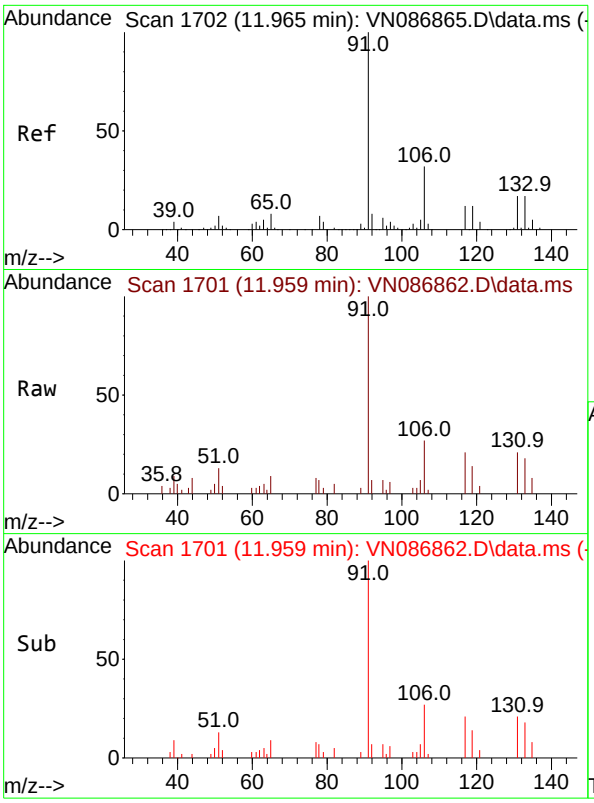


#65
Chlorobenzene
Concen: 1.118 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:112 Resp: 8581

Ion	Ratio	Lower	Upper
112	100		
114	25.7	26.2	39.2#





#66
1,1,1,2-Tetrachloroethane
Concen: 1.023 ug/l
RT: 11.959 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

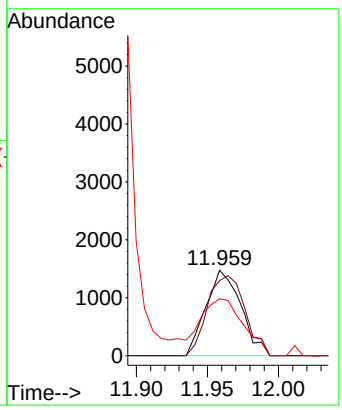
Tgt Ion:131 Resp: 252

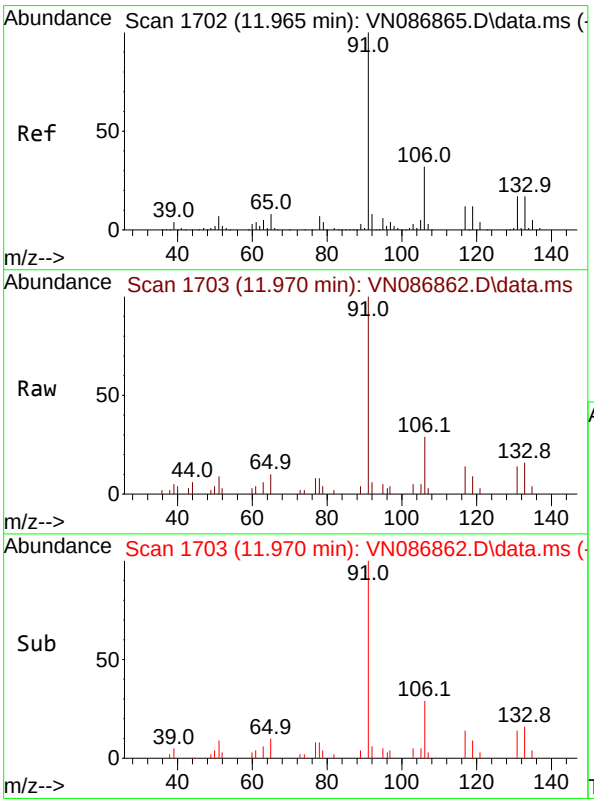
Ion	Ratio	Lower	Upper
131	100		
133	100.9	48.3	144.8
119	0.0	34.0	101.8#

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

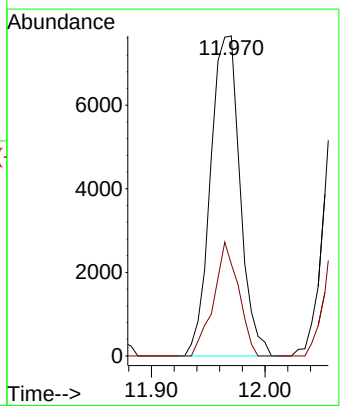


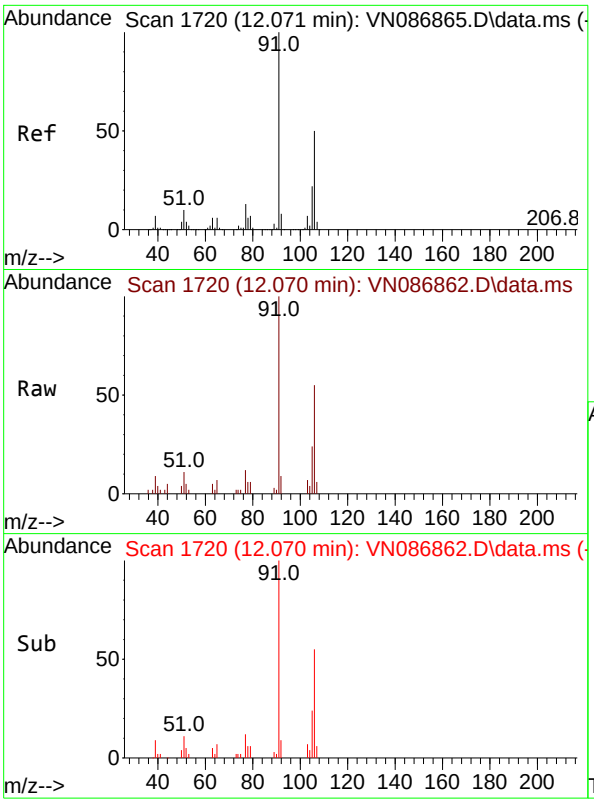


#67
Ethyl Benzene
Concen: 1.047 ug/l
RT: 11.970 min Scan# 1703
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 91 Resp: 13845

Ion	Ratio	Lower	Upper
91	100		
106	28.7	25.4	38.2





#68
m/p-Xylenes
Concen: 2.008 ug/l
RT: 12.070 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

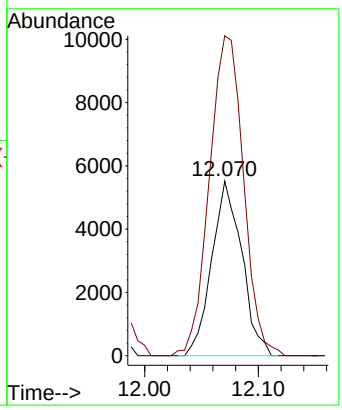
Tgt Ion:106 Resp: 1016

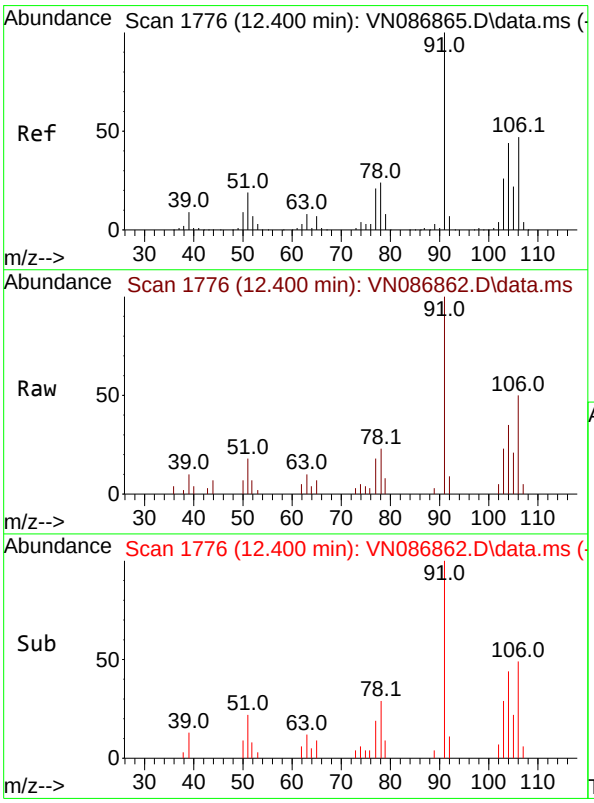
Ion	Ratio	Lower	Upper
106	100		
91	207.3	159.4	239.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

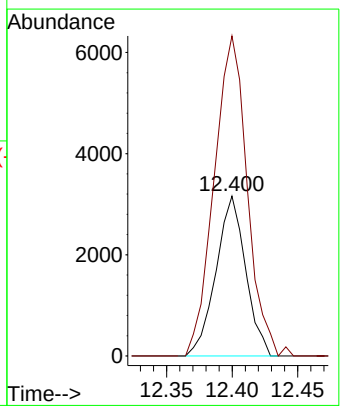


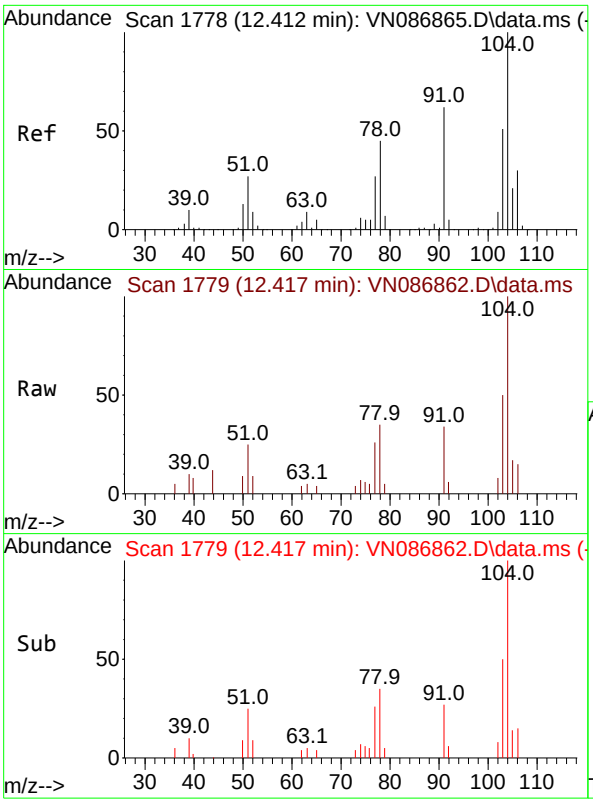


#69
o-Xylene
Concen: 1.025 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:106 Resp: 4970

Ion	Ratio	Lower	Upper
106	100		
91	223.6	106.1	318.1

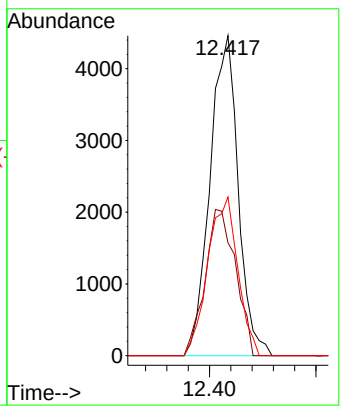




#70
Styrene
Concen: 0.987 ug/l
RT: 12.417 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:104 Resp: 818

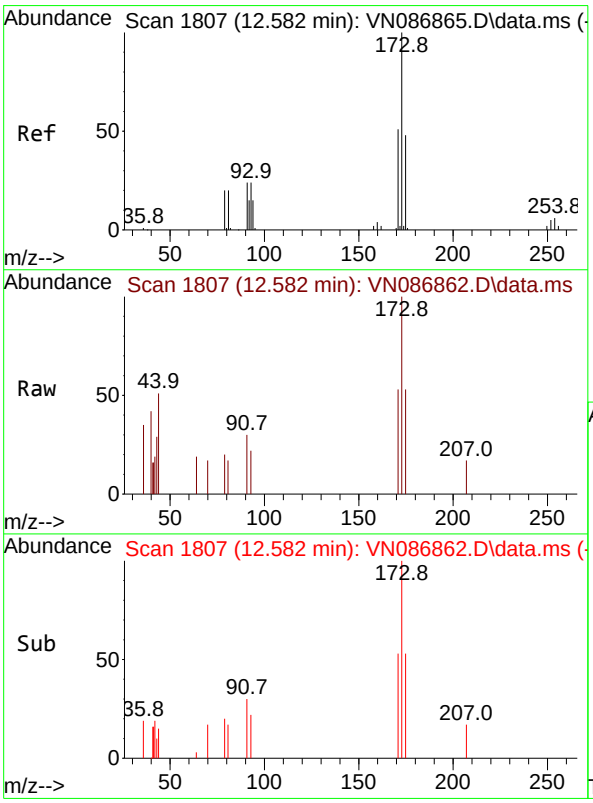
Ion	Ratio	Lower	Upper
104	100		
78	49.6	38.5	57.7
103	52.5	43.1	64.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

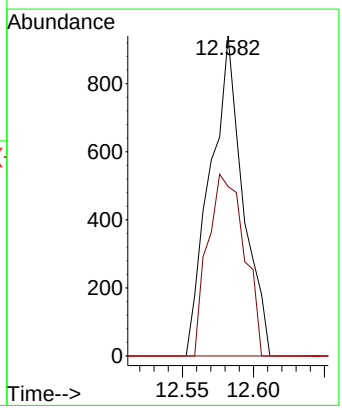
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

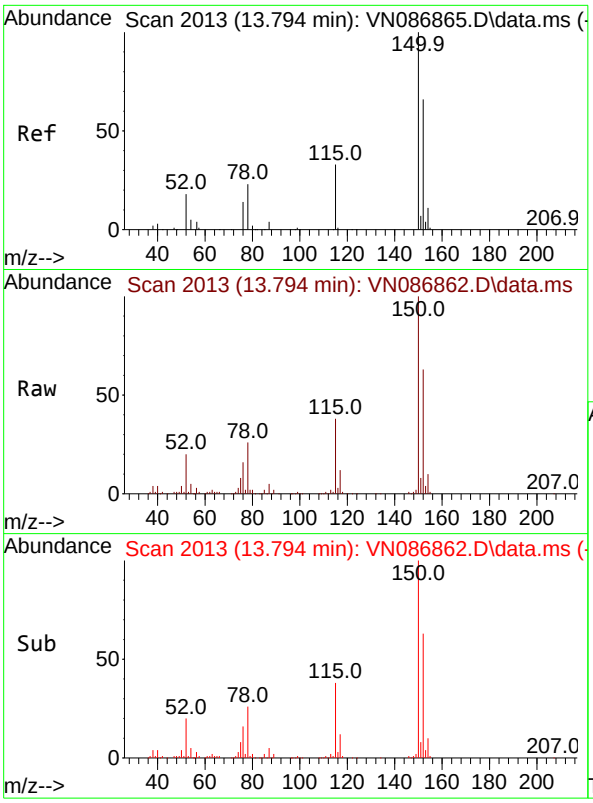


#71
Bromoform
Concen: 0.825 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:173 Resp: 1508

Ion	Ratio	Lower	Upper
173	100		
175	63.1	24.1	72.4
254	0.0	0.0	0.0

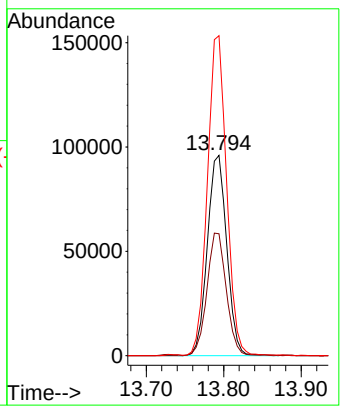




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:152 Resp: 16739

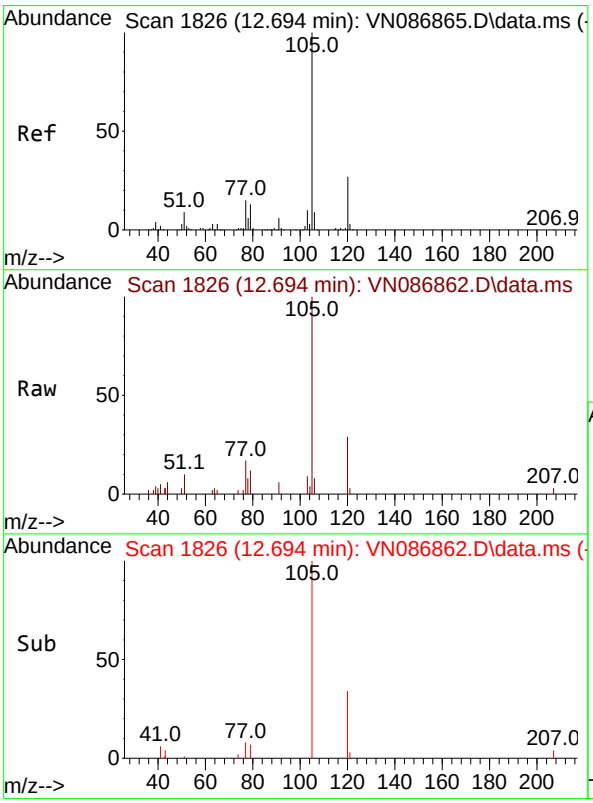
Ion	Ratio	Lower	Upper
152	100		
115	61.1	30.1	90.5
150	158.0	0.0	345.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

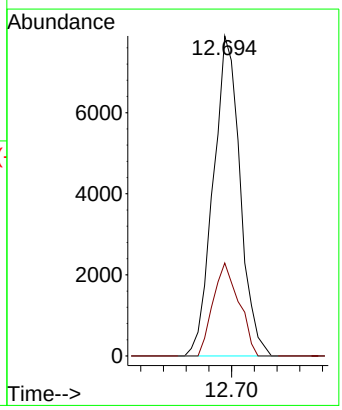
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

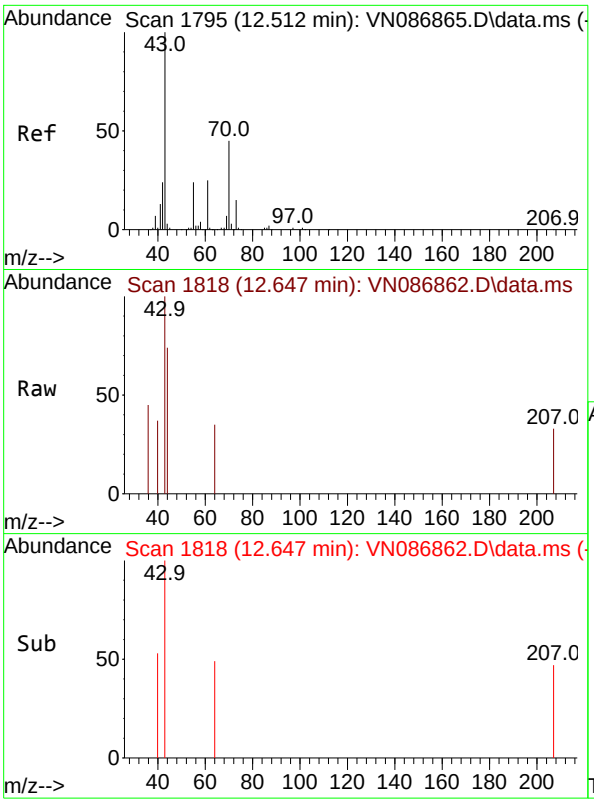


#73
Isopropylbenzene
Concen: 1.061 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:105 Resp: 12938

Ion	Ratio	Lower	Upper
105	100		
120	28.1	13.5	40.4

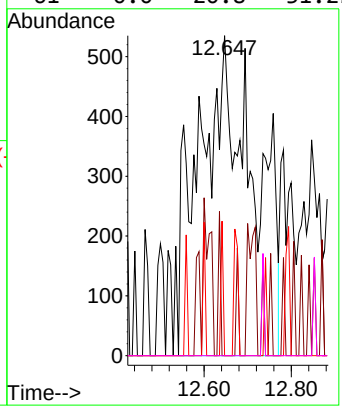




#74
N-amyl acetate
Concen: 1.138 ug/l m
RT: 12.647 min Scan# 1
Delta R.T. 0.135 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 43 Resp: 460

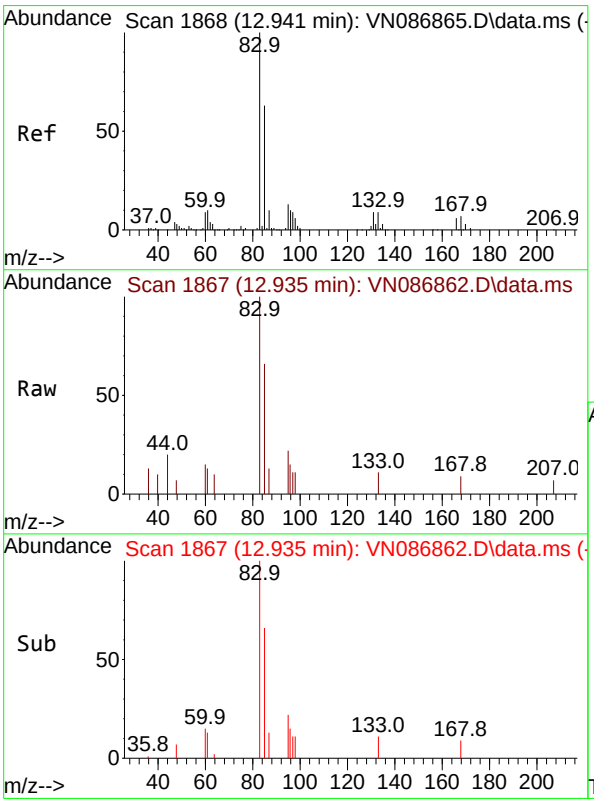
Ion	Ratio	Lower	Upper
43	100		
70	0.0	37.6	56.4#
55	0.0	19.0	28.6#
61	0.0	20.8	31.2#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

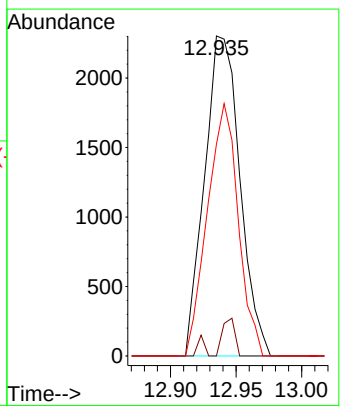
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

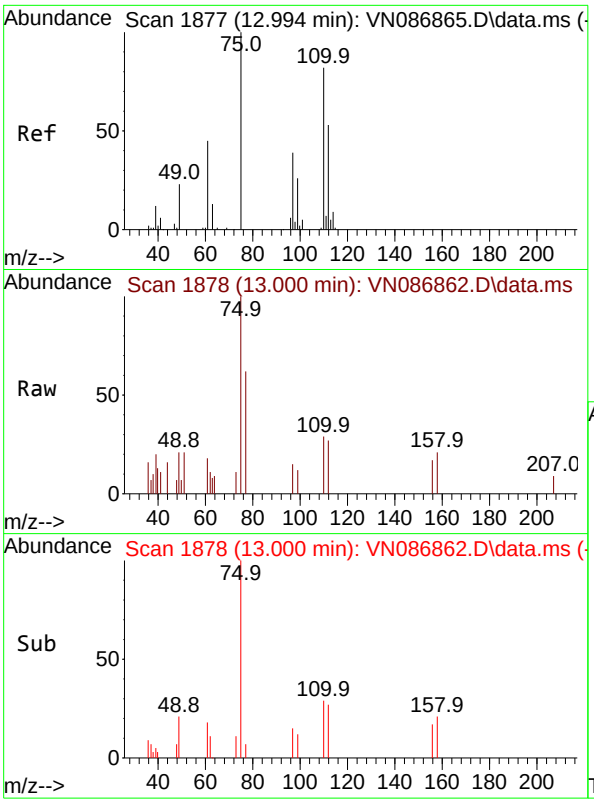


#75
1,1,2,2-Tetrachloroethane
Concen: 1.047 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 83 Resp: 4326

Ion	Ratio	Lower	Upper
83	100		
131	4.1	4.9	14.7#
85	68.6	32.0	96.0

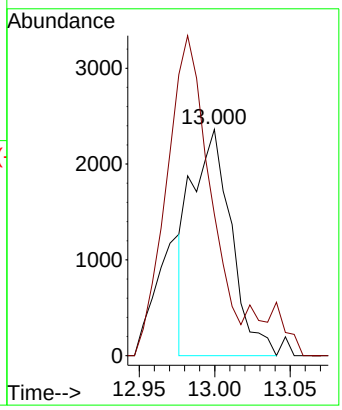




#76
1,2,3-Trichloropropane
Concen: 1.088 ug/l m
RT: 13.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 75 Resp: 434

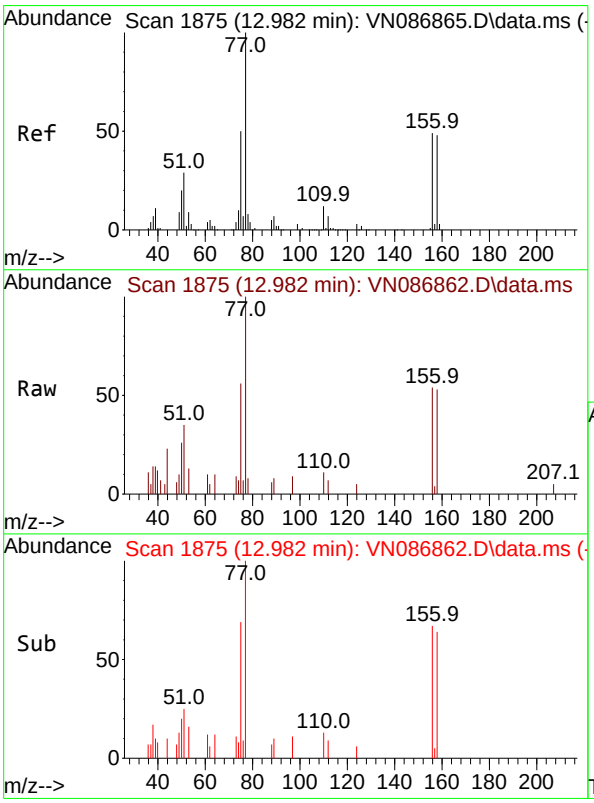
Ion	Ratio	Lower	Upper
75	100		
77	154.4	79.3	237.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

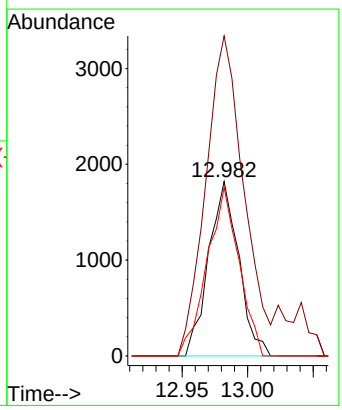
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

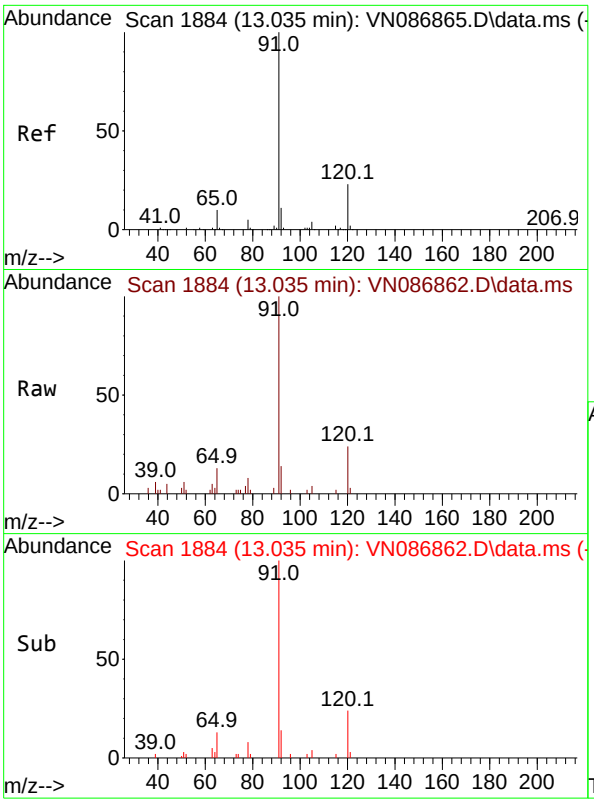


#77
Bromobenzene
Concen: 1.042 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:156 Resp: 2913

Ion	Ratio	Lower	Upper
156	100		
77	230.2	117.7	353.1
158	102.5	48.1	144.4





#78
n-propylbenzene
Concen: 1.023 ug/l
RT: 13.035 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

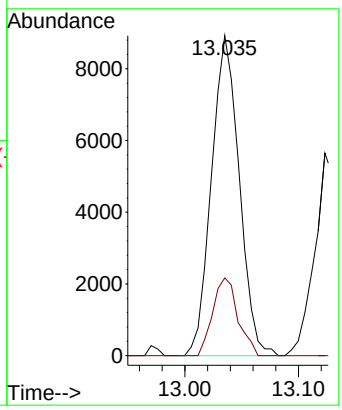
Tgt Ion: 91 Resp: 1516

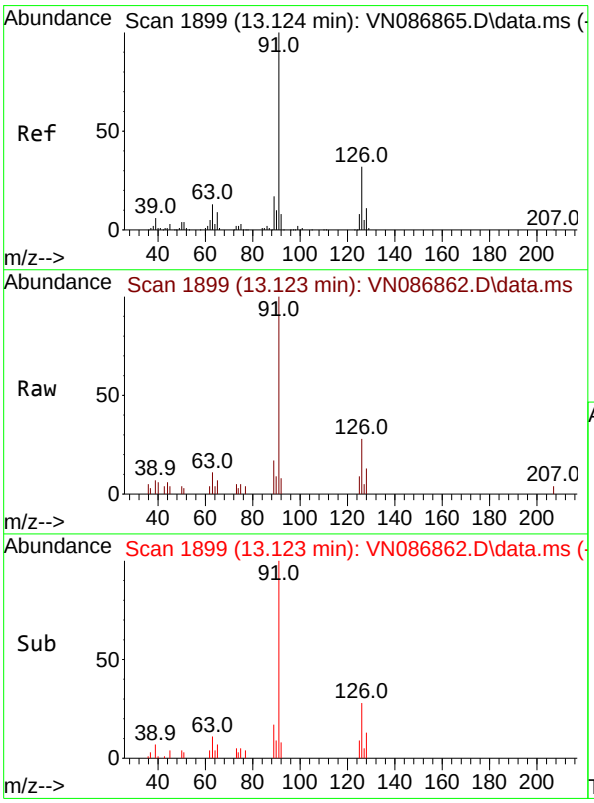
Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.4	34.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

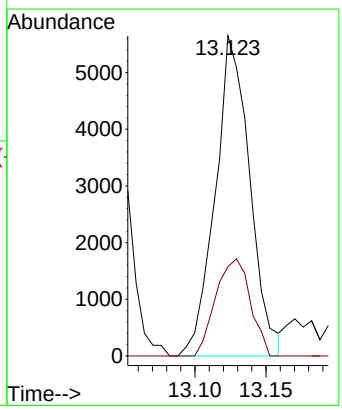


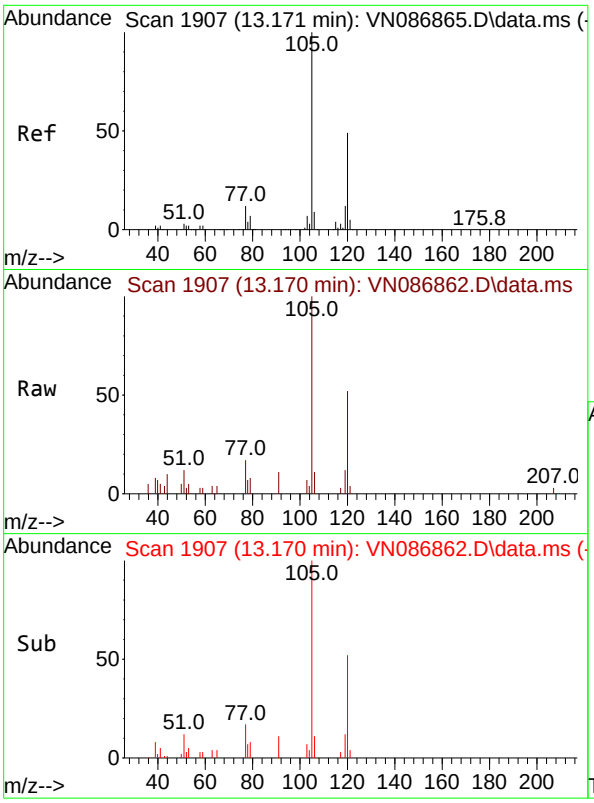


#79
2-Chlorotoluene
Concen: 1.074 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 91 Resp: 9550

Ion	Ratio	Lower	Upper
91	100		
126	30.4	16.2	48.5

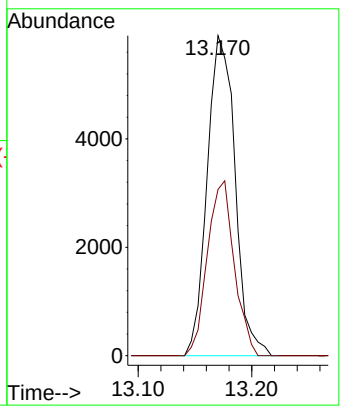




#80
1,3,5-Trimethylbenzene
Concen: 0.999 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:105 Resp: 1005

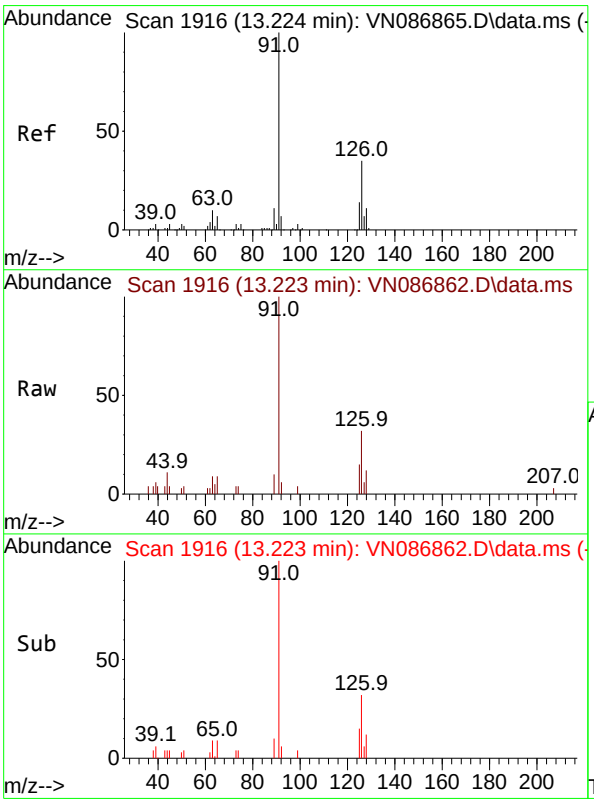
Ion	Ratio	Lower	Upper
105	100		
120	52.7	24.9	74.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

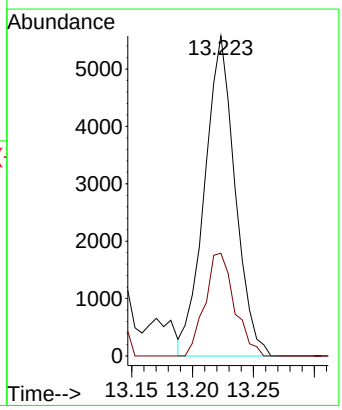
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

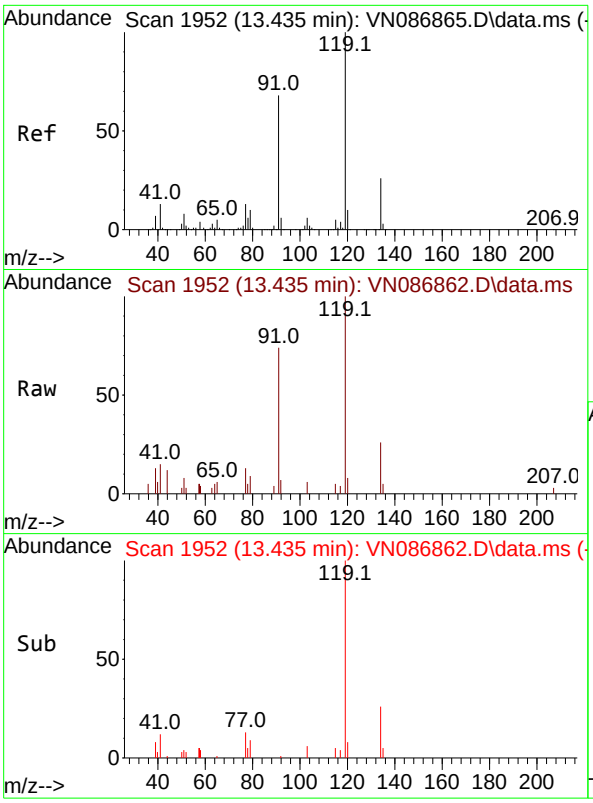


#82
4-Chlorotoluene
Concen: 1.079 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 91 Resp: 9706

Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.7	50.1

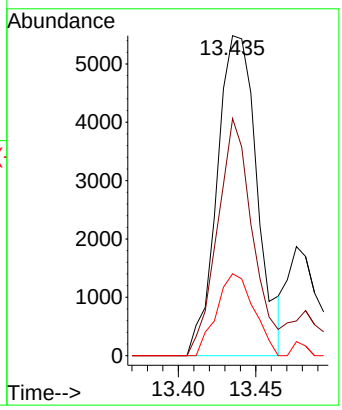




#83
tert-Butylbenzene
Concen: 1.069 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:119 Resp: 984

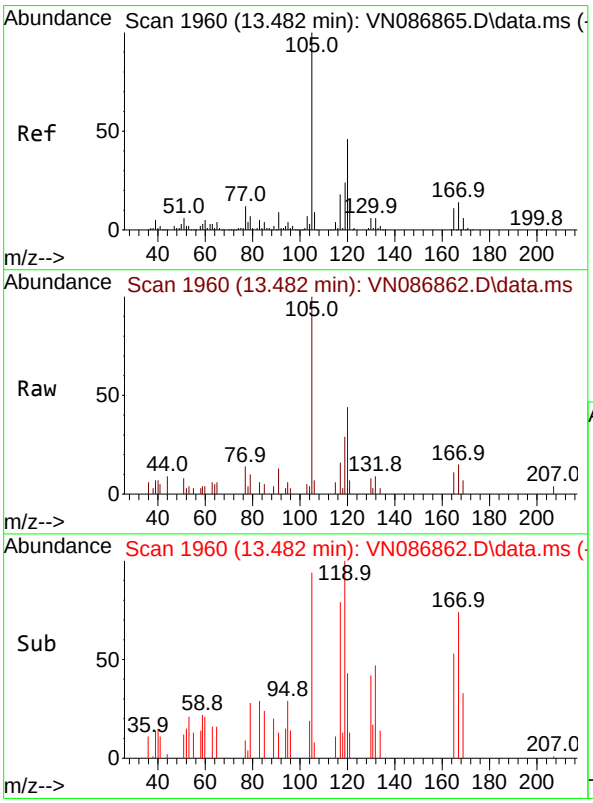
Ion	Ratio	Lower	Upper
119	100		
91	65.3	32.1	96.5
134	23.9	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

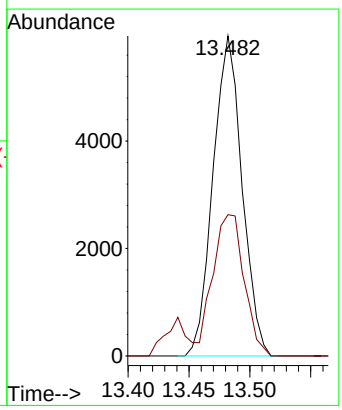
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

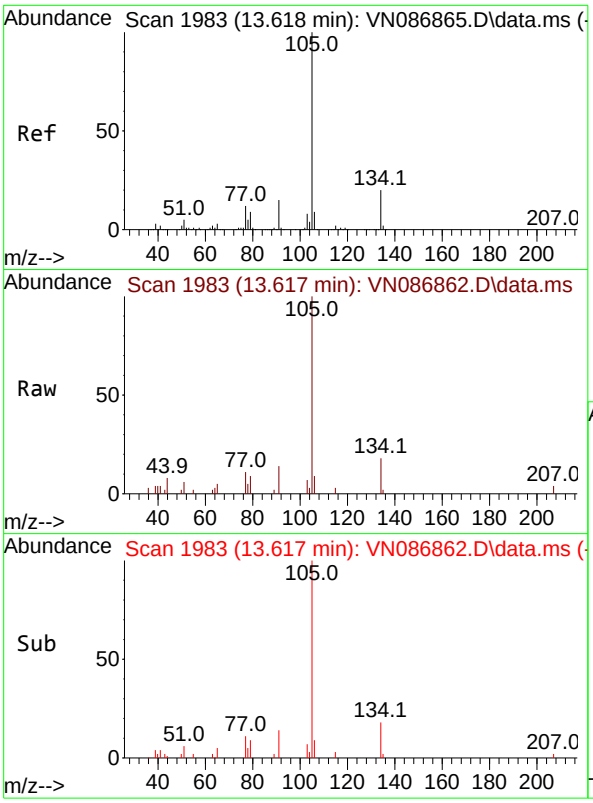


#84
1,2,4-Trimethylbenzene
Concen: 0.979 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:105 Resp: 9882

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.2	69.6

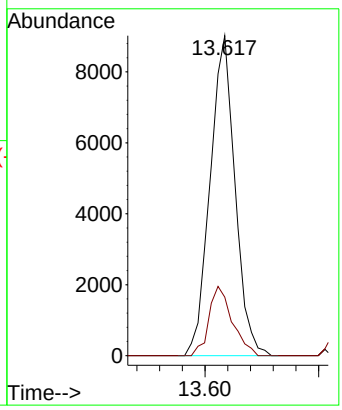




#85
sec-Butylbenzene
Concen: 1.029 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:105 Resp: 1377

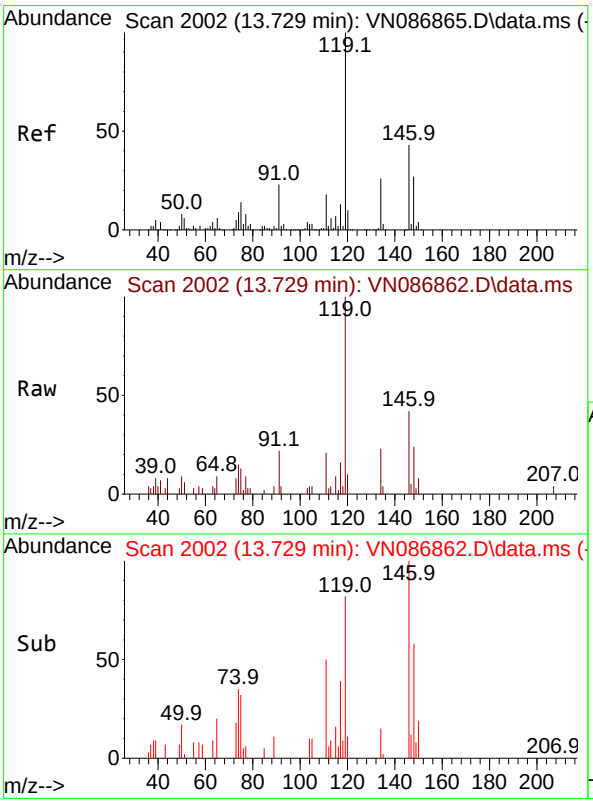
Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

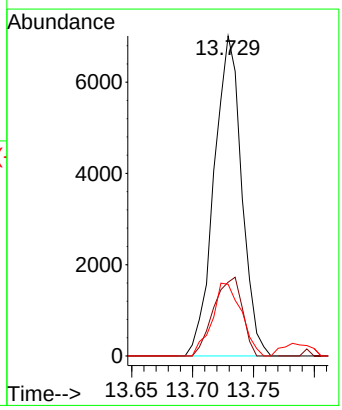
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

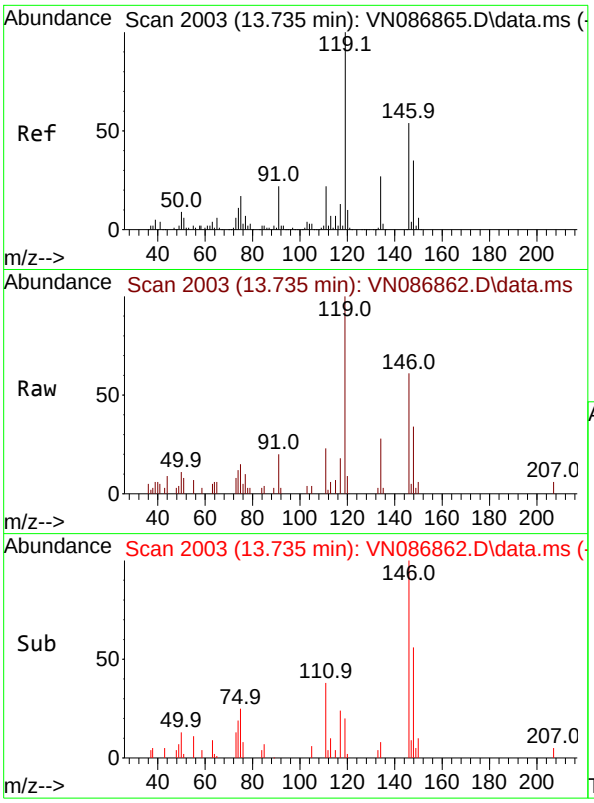


#86
p-Isopropyltoluene
Concen: 1.000 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:119 Resp: 11065

Ion	Ratio	Lower	Upper
119	100		
134	25.4	13.5	40.4
91	24.1	11.5	34.4

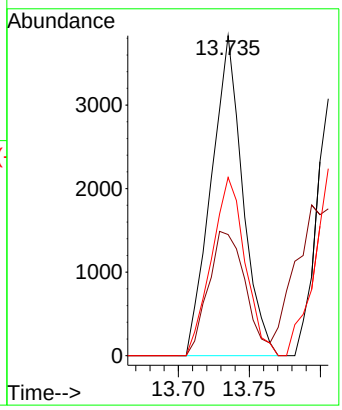




#87
1,3-Dichlorobenzene
Concen: 1.073 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:146 Resp: 590

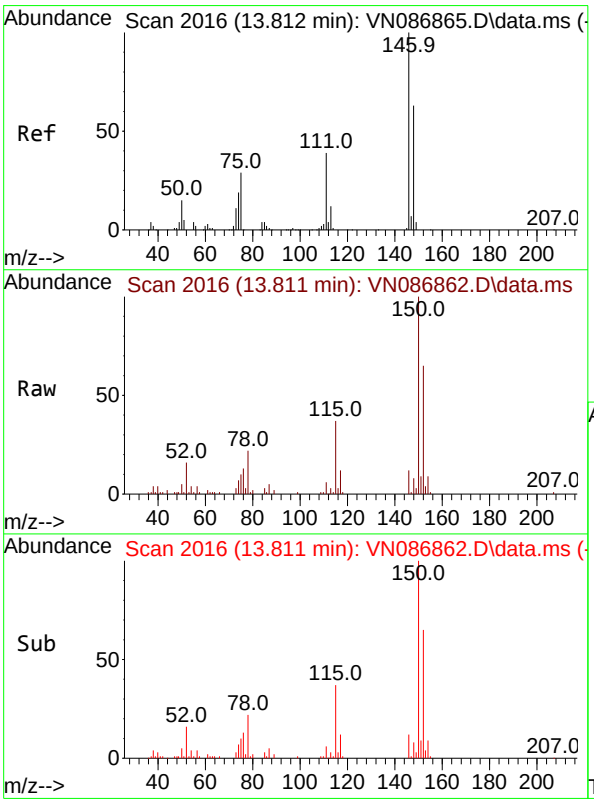
Ion	Ratio	Lower	Upper
146	100		
111	45.8	20.9	62.8
148	59.7	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

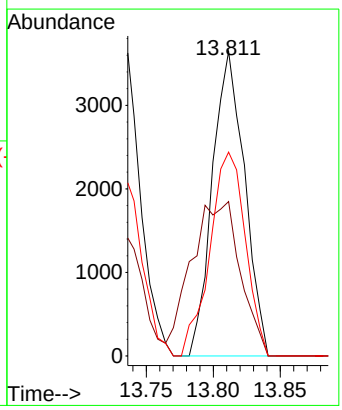
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

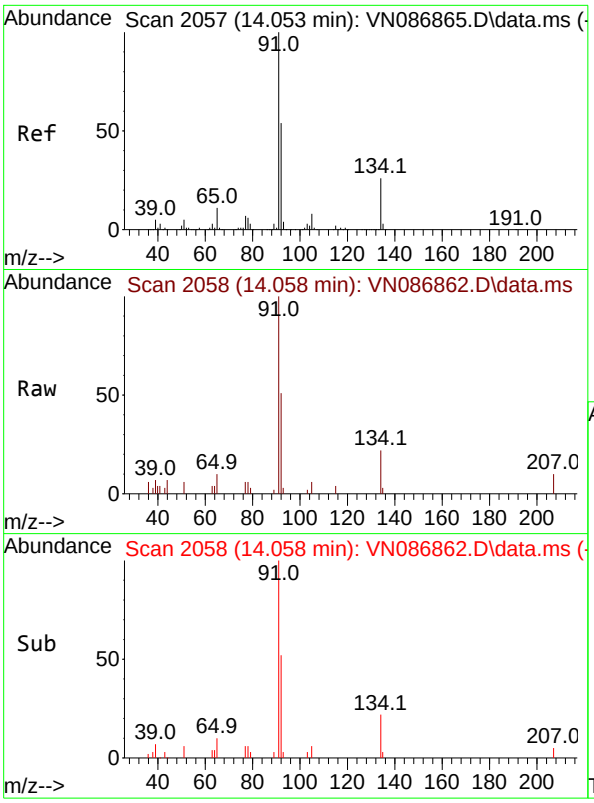


#88
1,4-Dichlorobenzene
Concen: 1.086 ug/l m
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:146 Resp: 6094

Ion	Ratio	Lower	Upper
146	100		
111	44.4	19.9	59.7
148	57.8	31.8	95.4

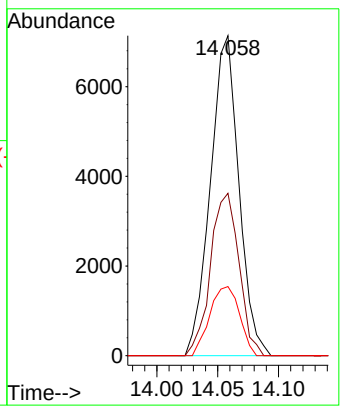




#89
n-Butylbenzene
Concen: 1.085 ug/l
RT: 14.058 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 91 Resp: 1162

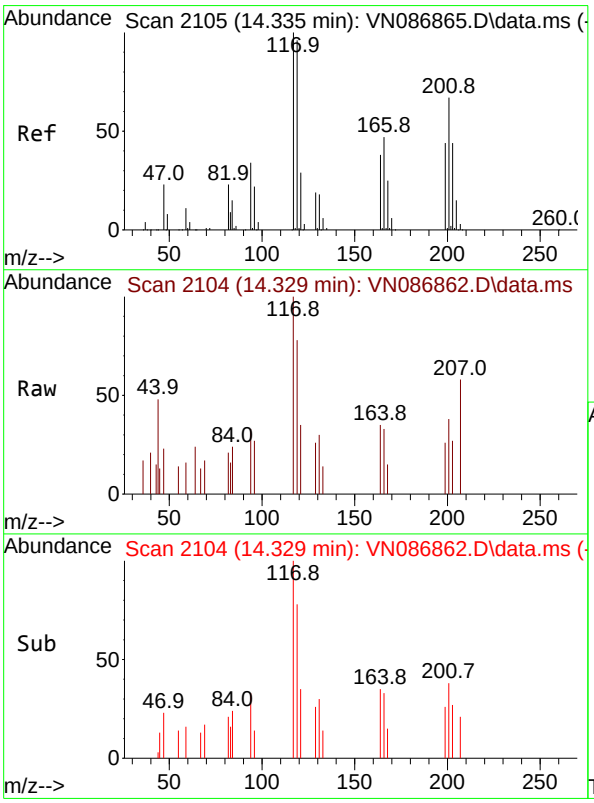
Ion	Ratio	Lower	Upper
91	100		
92	50.8	27.5	82.4
134	22.6	13.0	39.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

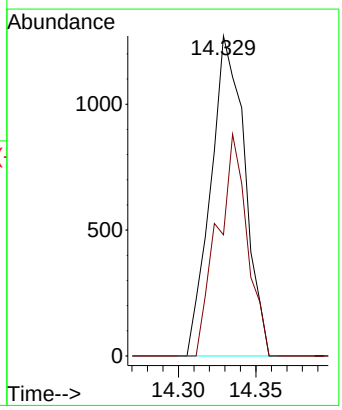
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

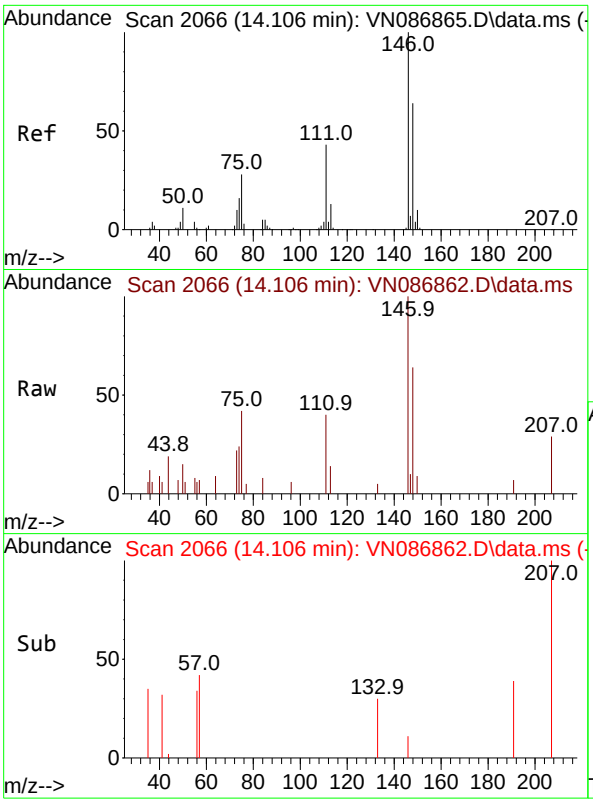


#90
Hexachloroethane
Concen: 1.036 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:117 Resp: 1942

Ion	Ratio	Lower	Upper
117	100		
201	60.6	33.2	99.6

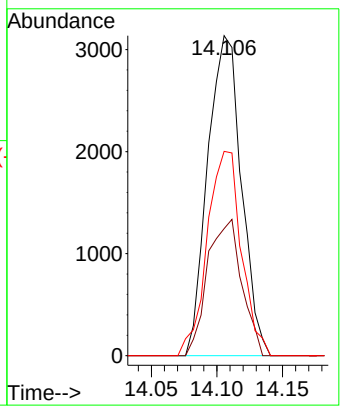




#91
1,2-Dichlorobenzene
Concen: 1.061 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:146 Resp: 560

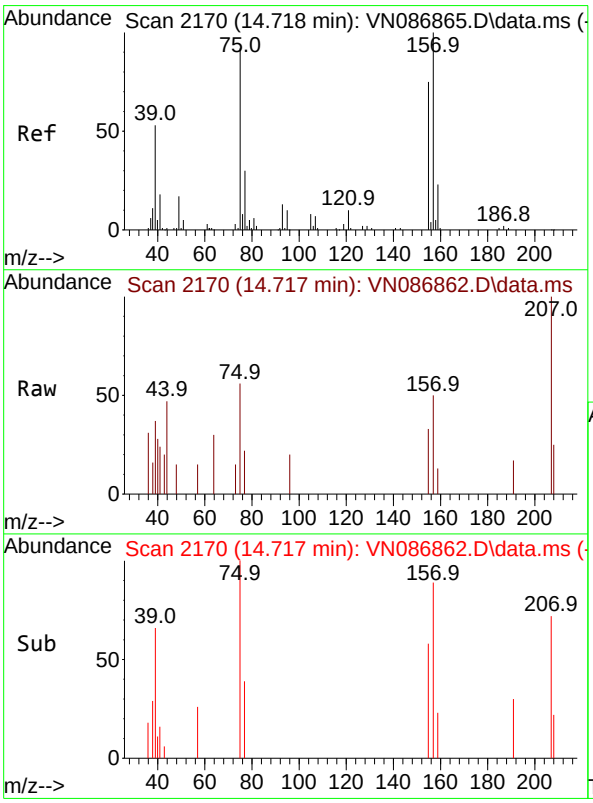
Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.6	64.6
148	64.7	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

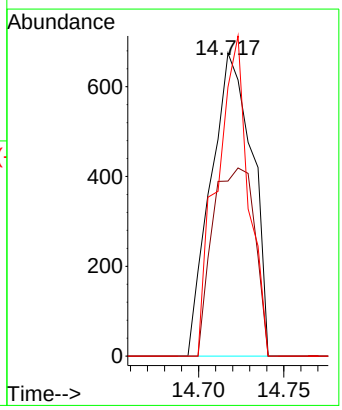
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

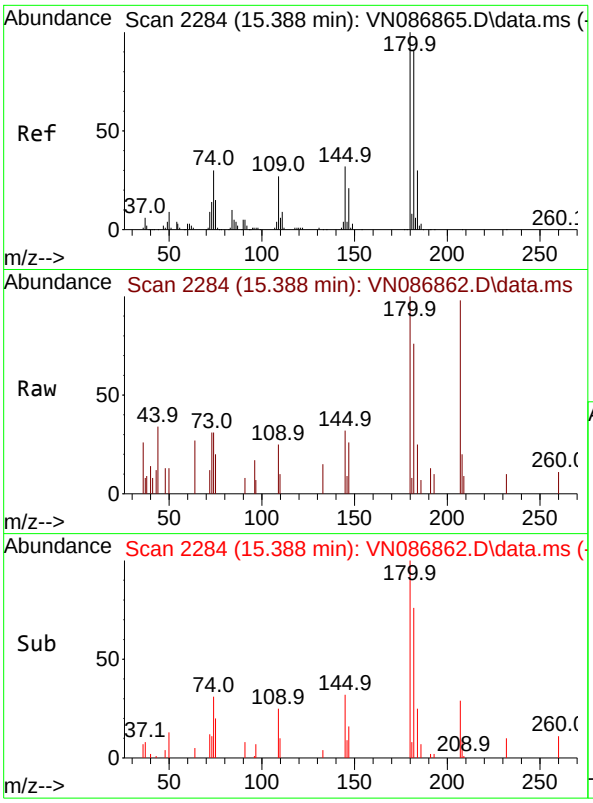


#92
1,2-Dibromo-3-Chloropropane
Concen: 1.150 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 75 Resp: 1136

Ion	Ratio	Lower	Upper
75	100		
155	63.6	41.1	123.4
157	81.0	52.7	158.1

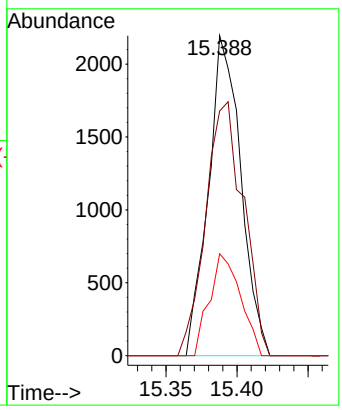




#93
1,2,4-Trichlorobenzene
Concen: 1.034 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:180 Resp: 348

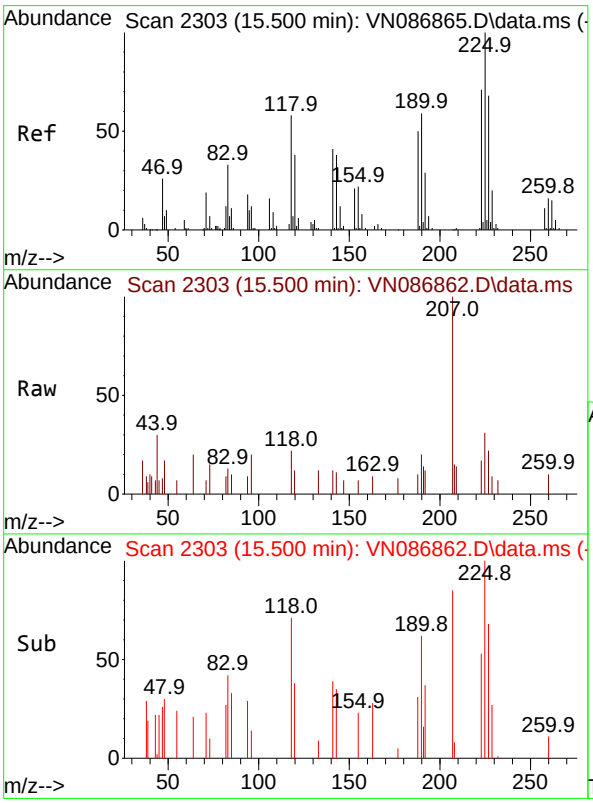
Ion	Ratio	Lower	Upper
180	100		
182	92.1	46.9	140.7
145	30.4	16.0	47.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

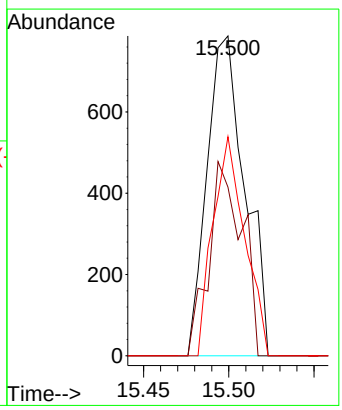
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

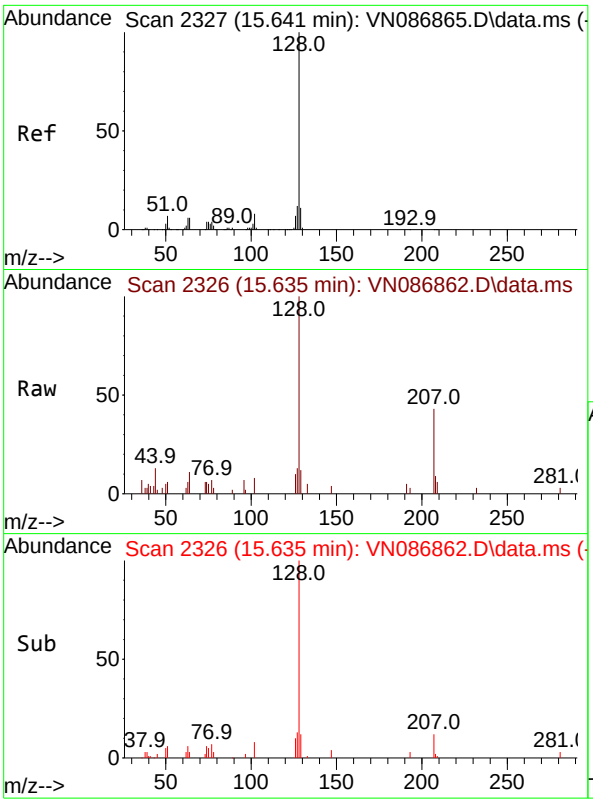


#94
Hexachlorobutadiene
Concen: 0.969 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:225 Resp: 1219

Ion	Ratio	Lower	Upper
225	100		
223	53.6	33.5	100.4
227	57.5	31.1	93.5

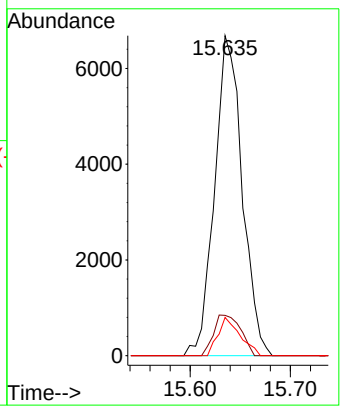




#95
Naphthalene
Concen: 1.018 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:128 Resp: 1278

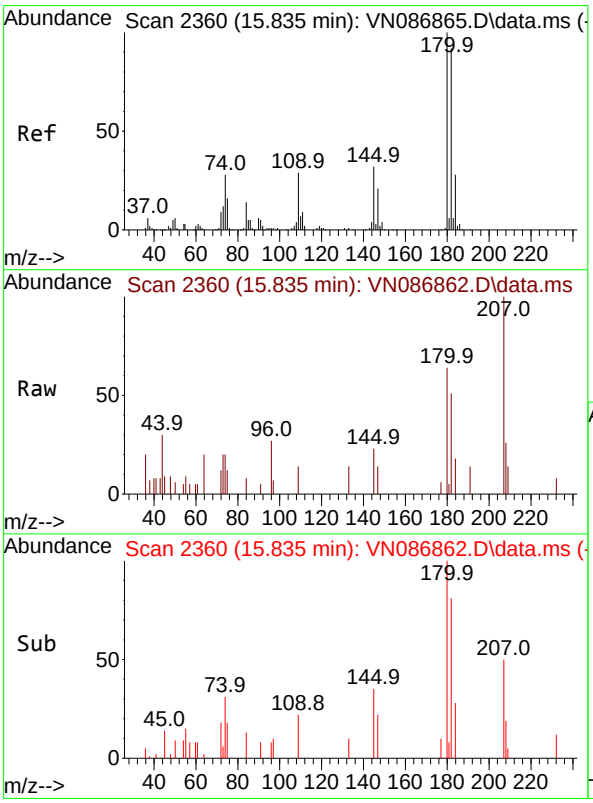
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.2	15.2
129	9.5	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

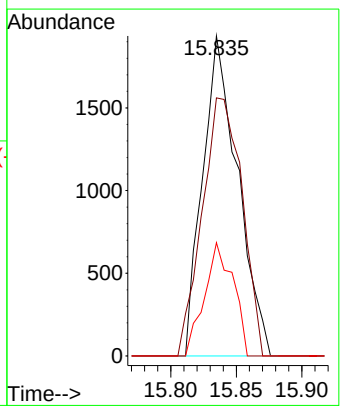
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 1.072 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:180 Resp: 3594

Ion	Ratio	Lower	Upper
180	100		
182	91.6	47.0	141.0
145	29.0	16.6	49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086863.D
Acq On : 06 Jun 2025 13:17
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	229701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	423980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	371851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	181065	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	16818	5.468	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.940%#		
35) Dibromofluoromethane	8.177	113	12867	5.121	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.240%#		
50) Toluene-d8	10.571	98	52794	5.308	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.620%#		
62) 4-Bromofluorobenzene	12.847	95	18697	5.059	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	10.120%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	10196	4.452	ug/l	93
3) Chloromethane	2.395	50	15025	5.080	ug/l	98
4) Vinyl Chloride	2.554	62	15384	5.043	ug/l	97
5) Bromomethane	2.989	94	8606	5.041	ug/l	97
6) Chloroethane	3.154	64	10190	5.171	ug/l	96
7) Trichlorofluoromethane	3.518	101	20740	5.203	ug/l	99
8) Diethyl Ether	3.971	74	9121	5.252	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.401	101	13034	5.205	ug/l	97
10) Methyl Iodide	4.606	142	16530	5.092	ug/l	98
11) Tert butyl alcohol	5.542	59	22000	26.363	ug/l	99
12) 1,1-Dichloroethene	4.359	96	13610	5.323	ug/l	94
13) Acrolein	4.195	56	8401	31.804	ug/l	99
14) Allyl chloride	5.042	41	20925	4.935	ug/l	99
15) Acrylonitrile	5.736	53	49826	25.545	ug/l	99
16) Acetone	4.448	43	41981	25.741	ug/l	99
17) Carbon Disulfide	4.736	76	37246	5.267	ug/l	97
18) Methyl Acetate	5.048	43	24096	5.070	ug/l	97
19) Methyl tert-butyl Ether	5.812	73	46823	5.058	ug/l	95
20) Methylene Chloride	5.300	84	15809	5.178	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	15480	5.442	ug/l #	81
22) Diisopropyl ether	6.689	45	46396	5.191	ug/l	99
23) Vinyl Acetate	6.618	43	194334	25.735	ug/l	100
24) 1,1-Dichloroethane	6.583	63	26473	5.147	ug/l	99
25) 2-Butanone	7.494	43	68629	25.888	ug/l	99
26) 2,2-Dichloropropane	7.500	77	18288	4.571	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	17594	5.172	ug/l	98
28) Bromochloromethane	7.830	49	12958	5.124	ug/l #	97
29) Tetrahydrofuran	7.853	42	44749	25.912	ug/l	98
30) Chloroform	7.977	83	26450	5.149	ug/l	95
31) Cyclohexane	8.271	56	29938	6.002	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	22857	5.232	ug/l #	50
36) 1,1-Dichloropropene	8.377	75	19410	5.184	ug/l	98
37) Ethyl Acetate	7.571	43	26073	5.470	ug/l	97
38) Carbon Tetrachloride	8.371	117	19056	5.184	ug/l	99
39) Methylcyclohexane	9.606	83	27353	5.333	ug/l	95
40) Benzene	8.612	78	63646	5.199	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086863.D
Acq On : 06 Jun 2025 13:17
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 07 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.783	41	13518	5.050	ug/l		99
42) 1,2-Dichloroethane	8.683	62	19329	5.205	ug/l		98
43) Isopropyl Acetate	8.700	43	40268	5.264	ug/l		98
44) Trichloroethene	9.359	130	15245	5.251	ug/l		96
45) 1,2-Dichloropropane	9.624	63	15632	5.248	ug/l		99
46) Dibromomethane	9.718	93	10241	5.176	ug/l		99
47) Bromodichloromethane	9.888	83	20512	5.039	ug/l		97
48) Methyl methacrylate	9.688	41	17591	4.996	ug/l		94
49) 1,4-Dioxane	9.700	88	6141	95.874	ug/l	#	93
51) 4-Methyl-2-Pentanone	10.447	43	116434	25.283	ug/l		97
52) Toluene	10.630	92	38744	5.178	ug/l		99
53) t-1,3-Dichloropropene	10.841	75	22285	4.896	ug/l		98
54) cis-1,3-Dichloropropene	10.318	75	24477	5.026	ug/l		93
55) 1,1,2-Trichloroethane	11.018	97	15068	5.234	ug/l		97
56) Ethyl methacrylate	10.888	69	21893	4.774	ug/l		95
57) 1,3-Dichloropropane	11.165	76	25452	5.096	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.165	63	64722	23.664	ug/l		98
59) 2-Hexanone	11.212	43	59884	20.188	ug/l		99
60) Dibromochloromethane	11.359	129	14884	4.962	ug/l		98
61) 1,2-Dibromoethane	11.471	107	15172	5.141	ug/l		99
64) Tetrachloroethene	11.106	164	12322	5.236	ug/l		92
65) Chlorobenzene	11.894	112	42195	5.145	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.965	131	13897	5.271	ug/l		97
67) Ethyl Benzene	11.965	91	73443	5.199	ug/l		97
68) m/p-Xylenes	12.071	106	55859	10.330	ug/l		100
69) o-Xylene	12.400	106	26004	5.021	ug/l		96
70) Styrene	12.412	104	44380	5.008	ug/l		98
71) Bromoform	12.582	173	9890	5.063	ug/l	#	96
73) Isopropylbenzene	12.694	105	67878	5.146	ug/l		100
74) N-amyl acetate	12.559	43	20096m	4.590	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.935	83	23516	5.262	ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	21527m	4.986	ug/l		
77) Bromobenzene	12.976	156	15485	5.119	ug/l		92
78) n-propylbenzene	13.035	91	83781	5.226	ug/l		99
79) 2-Chlorotoluene	13.124	91	49297	5.128	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	55961	5.139	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.741	75	9234	4.939	ug/l		94
82) 4-Chlorotoluene	13.223	91	49924	5.132	ug/l		100
83) tert-Butylbenzene	13.435	119	50874	5.103	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	56525	5.176	ug/l		100
85) sec-Butylbenzene	13.618	105	74711	5.161	ug/l		99
86) p-Isopropyltoluene	13.729	119	62016	5.182	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	30949	5.200	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	32342	5.330	ug/l		96
89) n-Butylbenzene	14.053	91	59601	5.142	ug/l		99
90) Hexachloroethane	14.335	117	9725	4.794	ug/l		95
91) 1,2-Dichlorobenzene	14.106	146	29897	5.228	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5731	5.363	ug/l		93
93) 1,2,4-Trichlorobenzene	15.394	180	18778	5.143	ug/l		99
94) Hexachlorobutadiene	15.500	225	7072	5.199	ug/l		99
95) Naphthalene	15.641	128	67481	4.965	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	18262	5.034	ug/l		97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086863.D
Acq On : 06 Jun 2025 13:17
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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

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

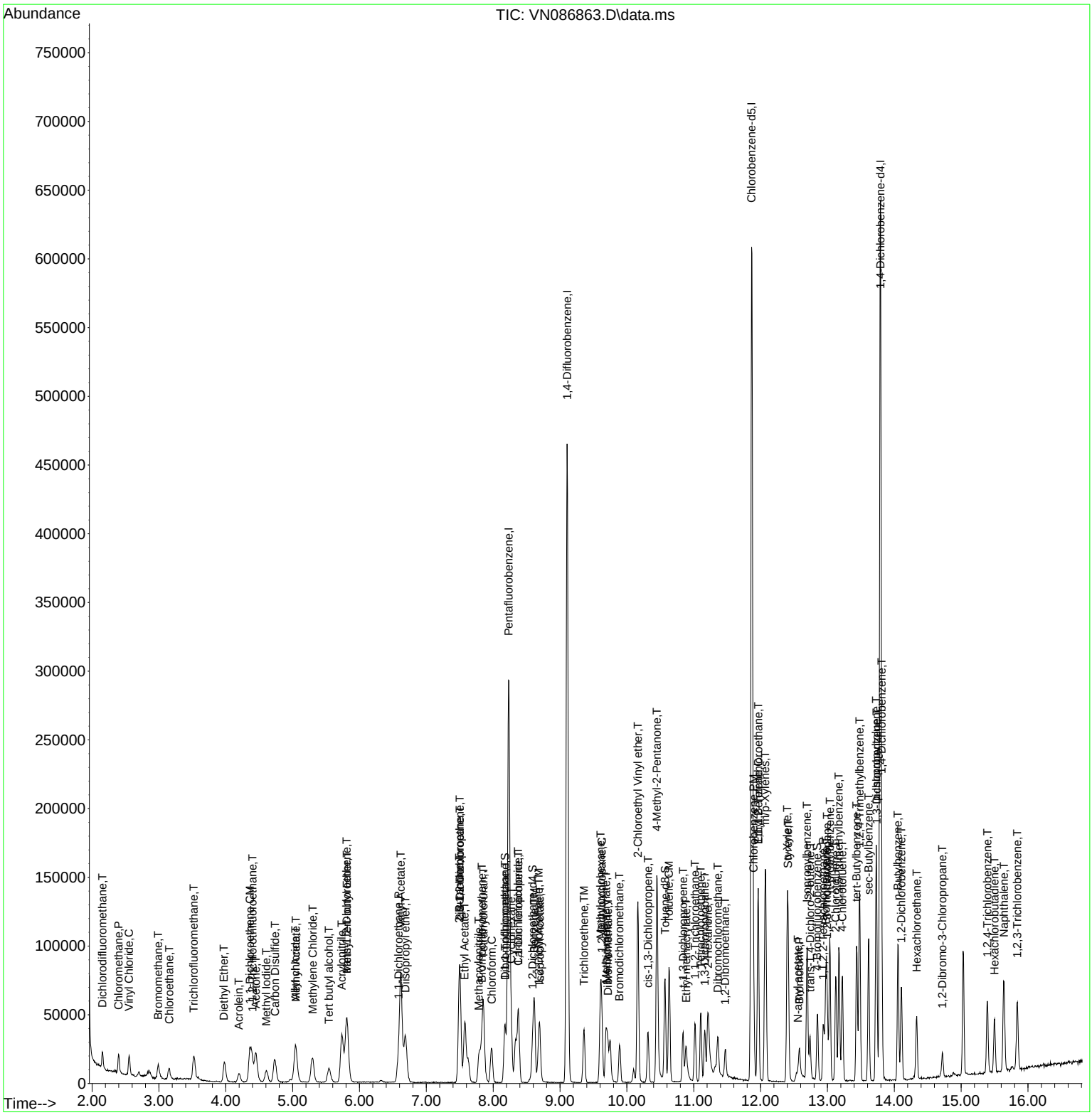
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086863.D
Acq On : 06 Jun 2025 13:17
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

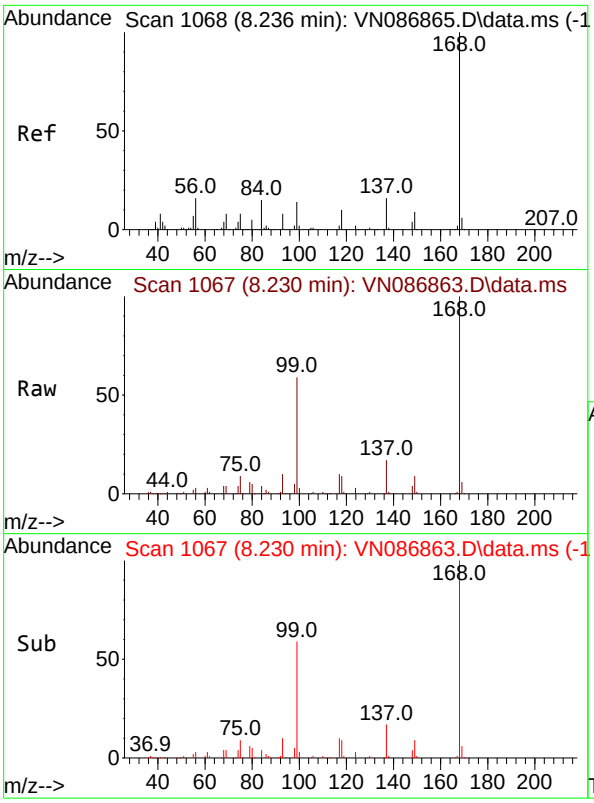
Quant Time: Jun 07 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

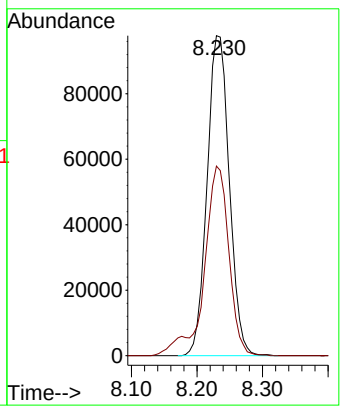




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:168 Resp: 22970

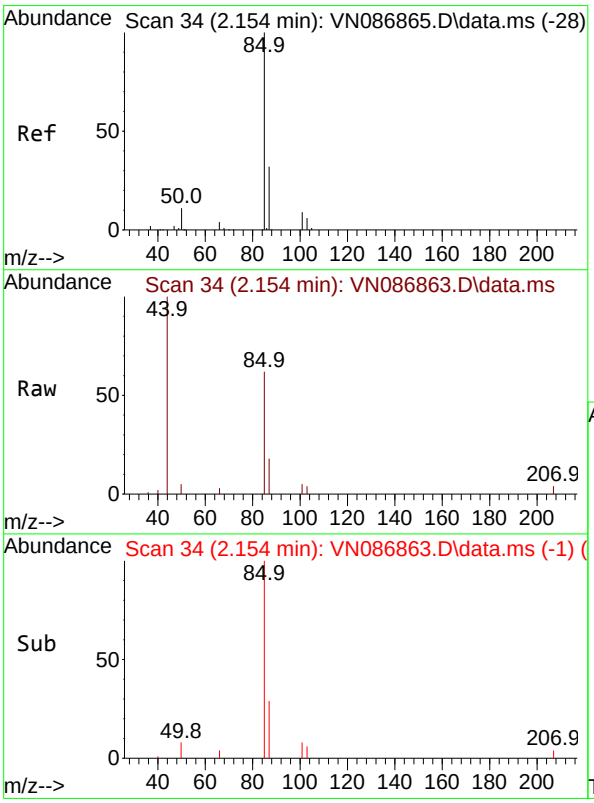
Ion	Ratio	Lower	Upper
168	100		
99	59.2	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

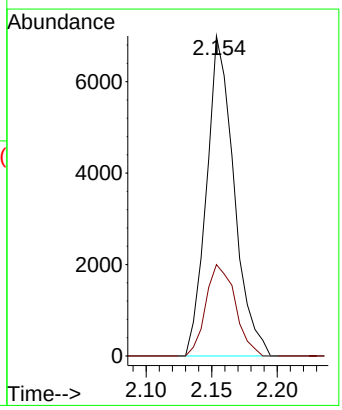
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

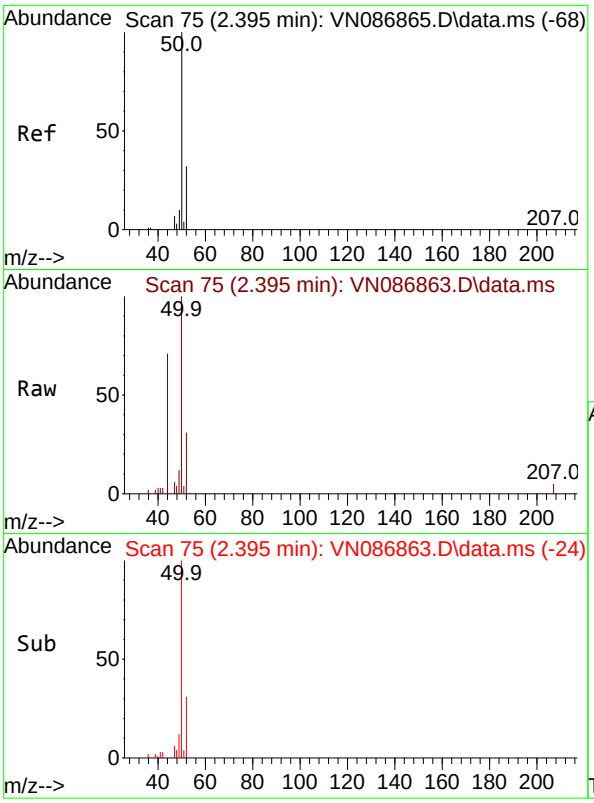


#2
Dichlorodifluoromethane
Concen: 4.452 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 85 Resp: 10196

Ion	Ratio	Lower	Upper
85	100		
87	28.6	16.2	48.6

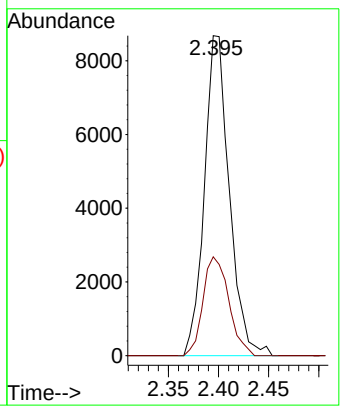




#3
Chloromethane
Concen: 5.080 ug/l
RT: 2.395 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 50 Resp: 1502

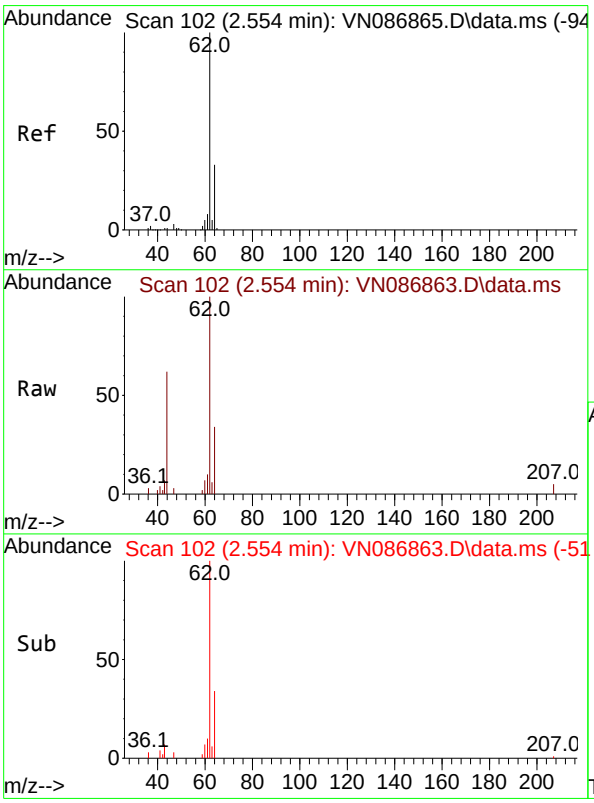
Ion	Ratio	Lower	Upper
50	100		
52	30.9	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

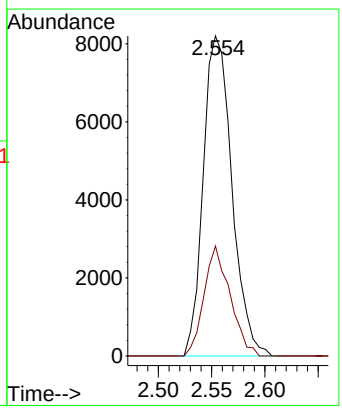
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

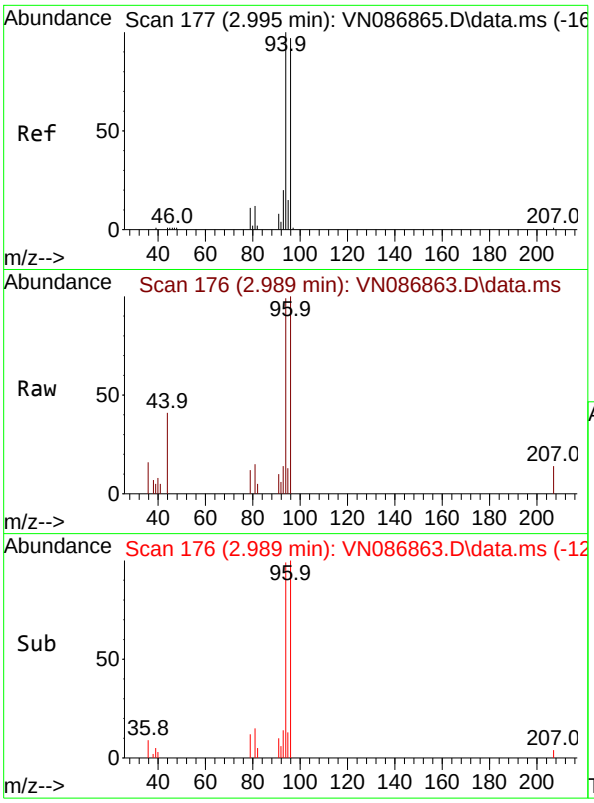


#4
Vinyl Chloride
Concen: 5.043 ug/l
RT: 2.554 min Scan# 102
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 62 Resp: 15384

Ion	Ratio	Lower	Upper
62	100		
64	34.3	26.0	39.0

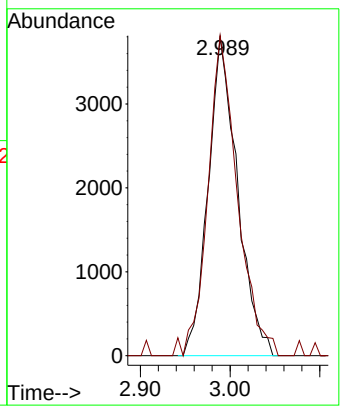




#5
Bromomethane
Concen: 5.041 ug/l
RT: 2.989 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 94 Resp: 860

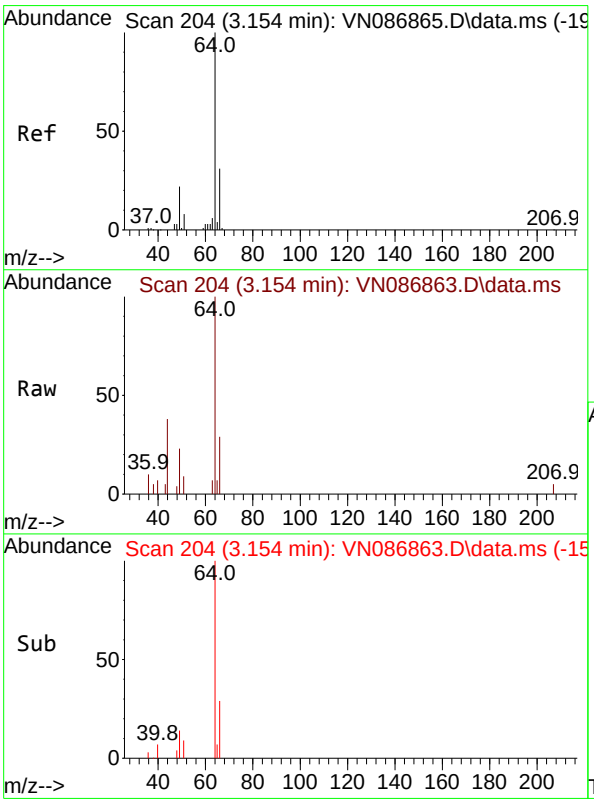
Ion	Ratio	Lower	Upper
94	100		
96	100.6	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

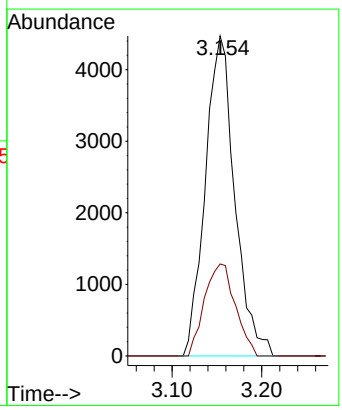
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

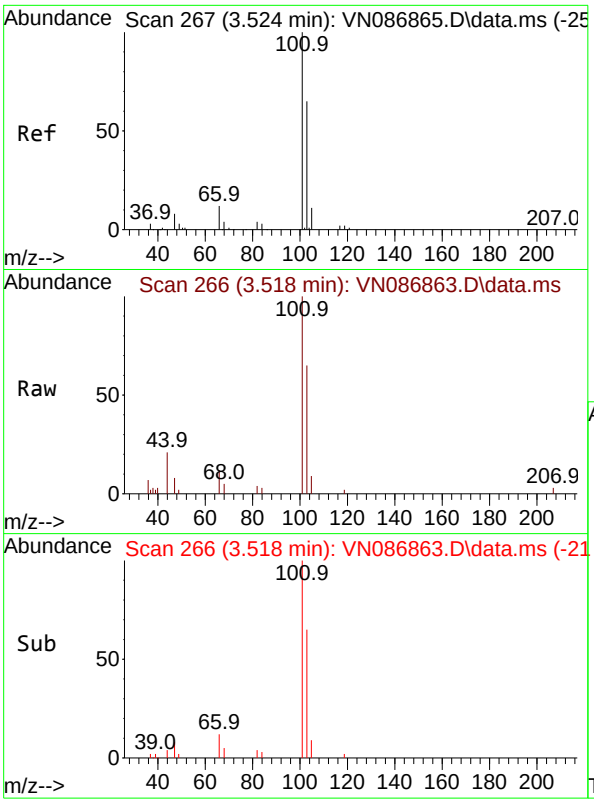


#6
Chloroethane
Concen: 5.171 ug/l
RT: 3.154 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 64 Resp: 10190

Ion	Ratio	Lower	Upper
64	100		
66	28.8	24.6	36.8

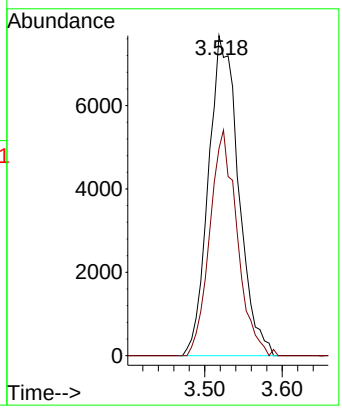




#7
Trichlorofluoromethane
Concen: 5.203 ug/l
RT: 3.518 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:101 Resp: 2074

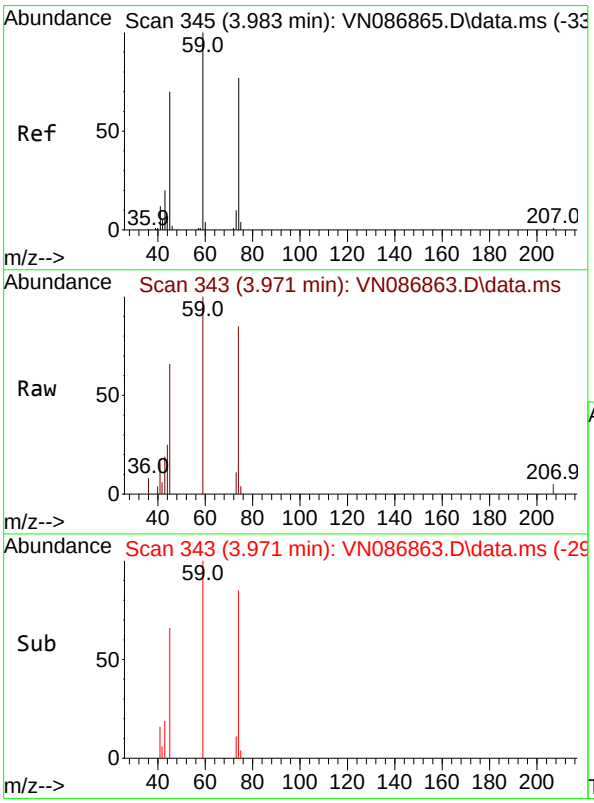
Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.2	78.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

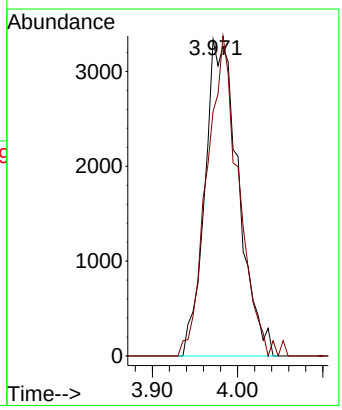
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

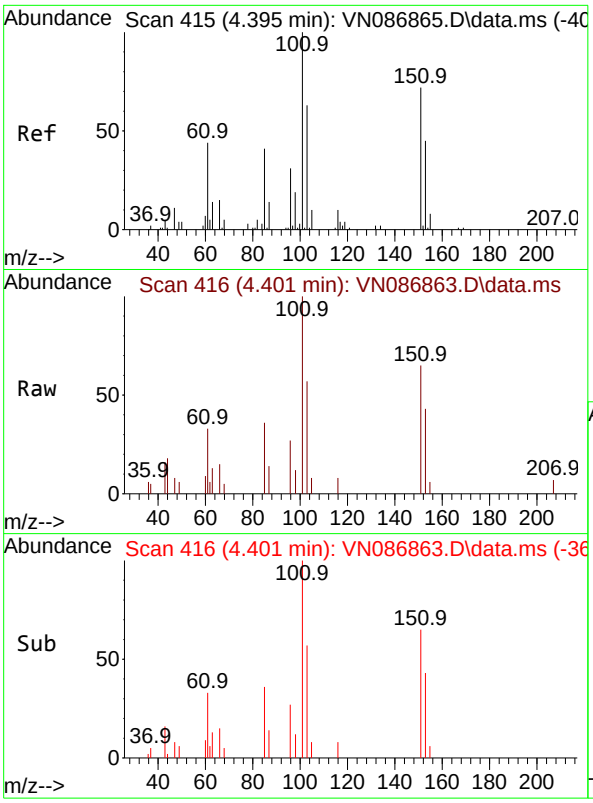


#8
Diethyl Ether
Concen: 5.252 ug/l
RT: 3.971 min Scan# 343
Delta R.T. -0.012 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 74 Resp: 9121

Ion	Ratio	Lower	Upper
74	100		
45	95.8	45.5	136.5

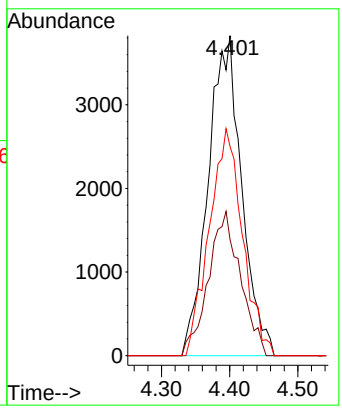




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.205 ug/l
RT: 4.401 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:101 Resp: 1303

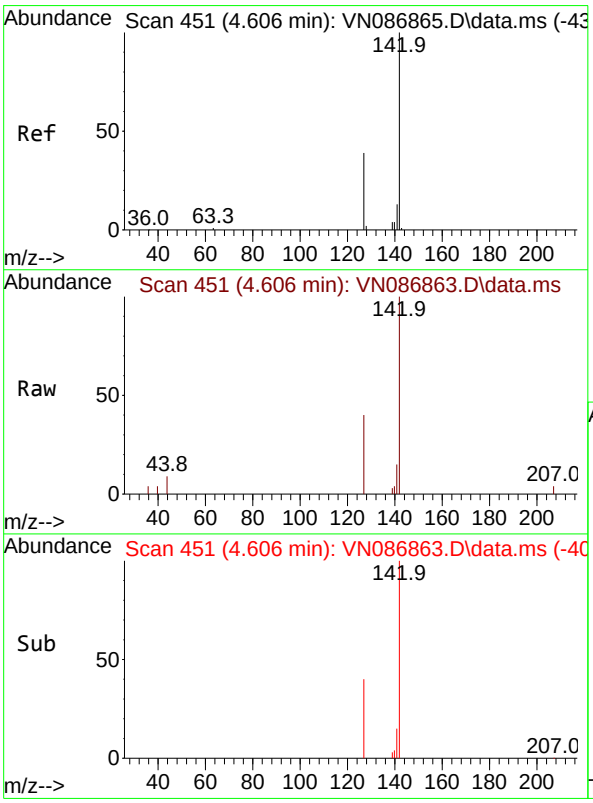
Ion	Ratio	Lower	Upper
101	100		
85	43.3	33.8	50.8
151	70.8	58.7	88.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

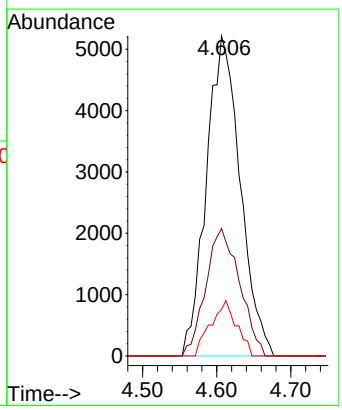
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

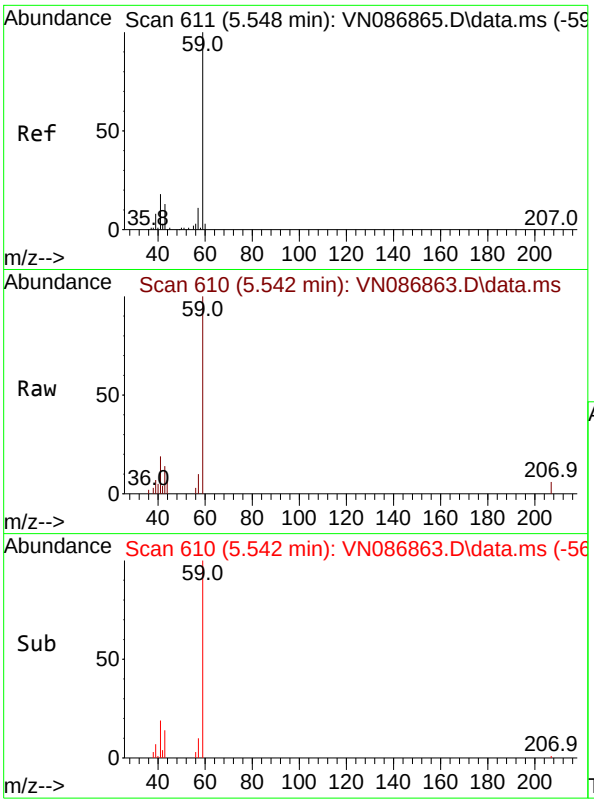


#10
Methyl Iodide
Concen: 5.092 ug/l
RT: 4.606 min Scan# 451
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:142 Resp: 16530

Ion	Ratio	Lower	Upper
142	100		
127	39.8	30.9	46.3
141	14.5	10.4	15.6





#11
Tert butyl alcohol
Concen: 26.363 ug/l
RT: 5.542 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

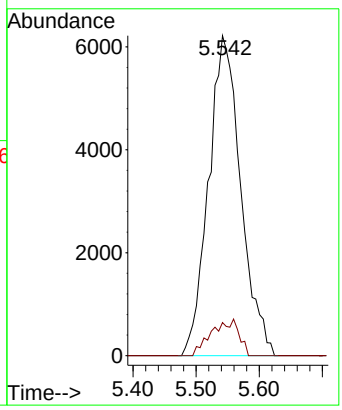
Tgt Ion: 59 Resp: 2200

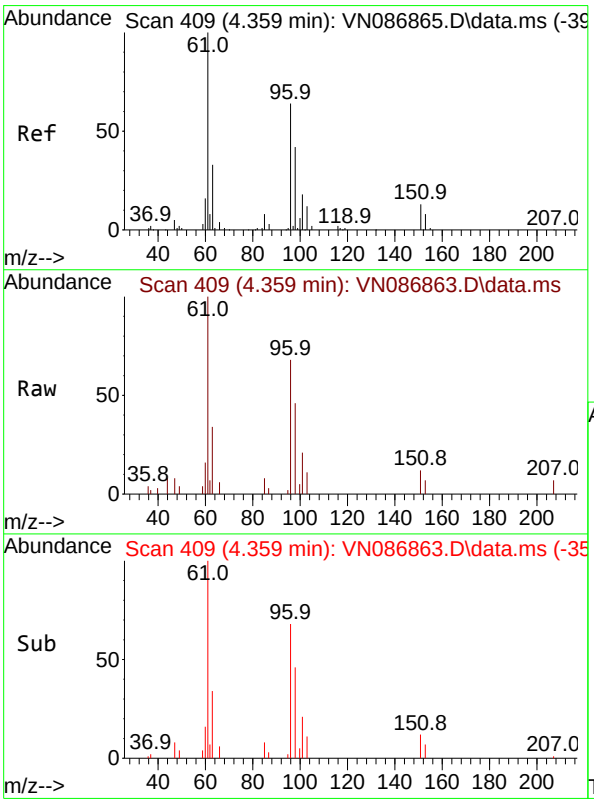
Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.1	12.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

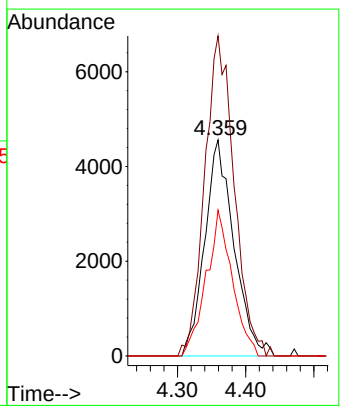


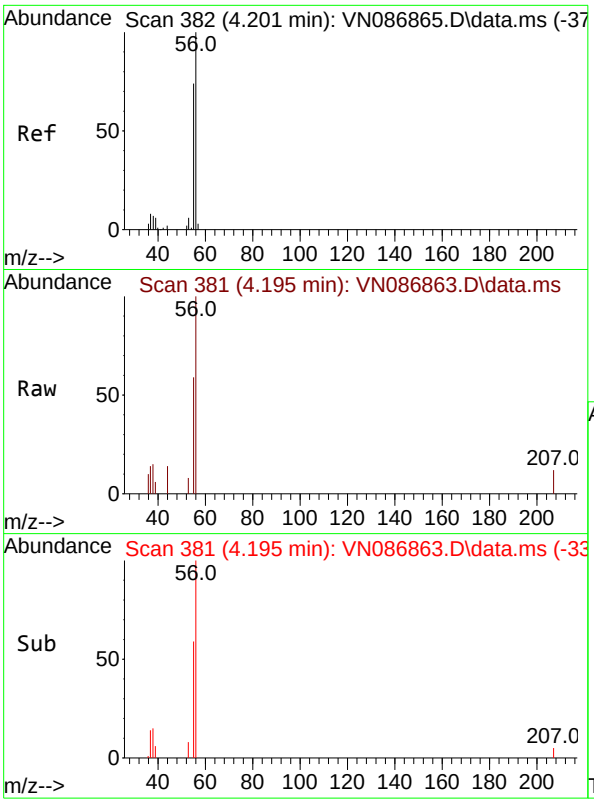


#12
1,1-Dichloroethene
Concen: 5.323 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 96 Resp: 13610

Ion	Ratio	Lower	Upper
96	100		
61	148.1	125.8	188.6
98	67.5	52.5	78.7

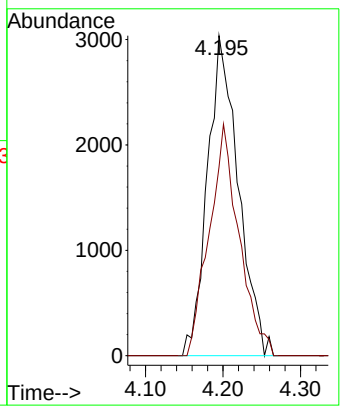




#13
Acrolein
Concen: 31.804 ug/l
RT: 4.195 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 56 Resp: 840

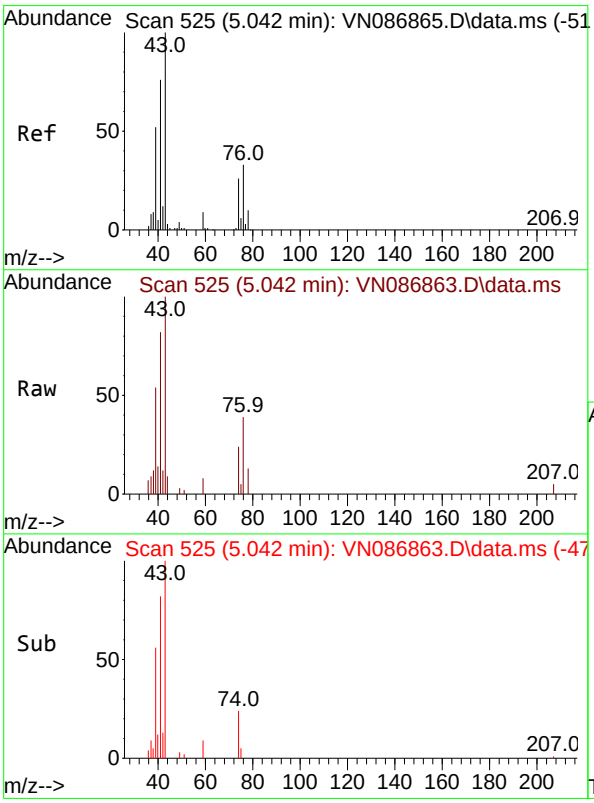
Ion	Ratio	Lower	Upper
56	100		
55	70.2	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

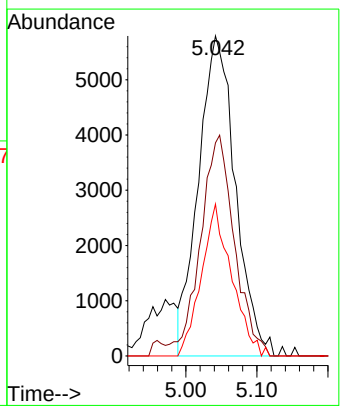
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

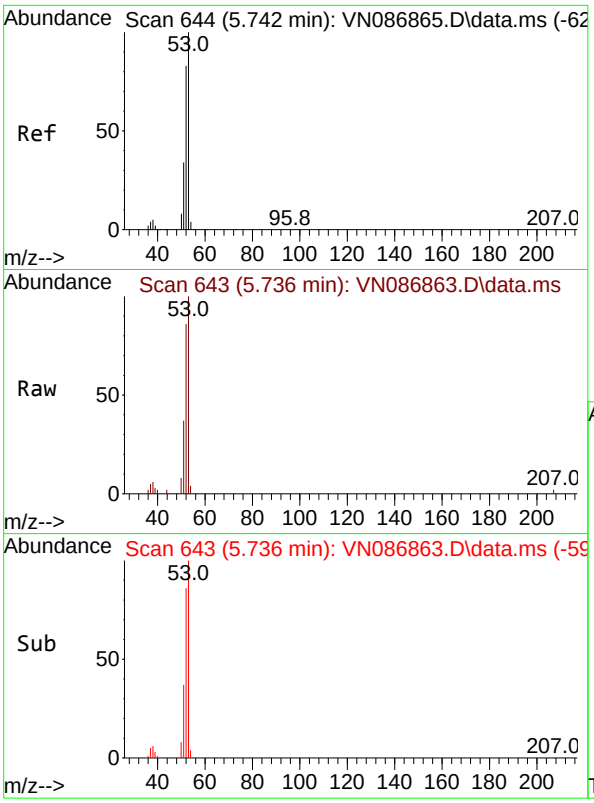


#14
Allyl chloride
Concen: 4.935 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 41 Resp: 20925

Ion	Ratio	Lower	Upper
41	100		
39	63.2	51.3	76.9
76	39.0	31.4	47.0

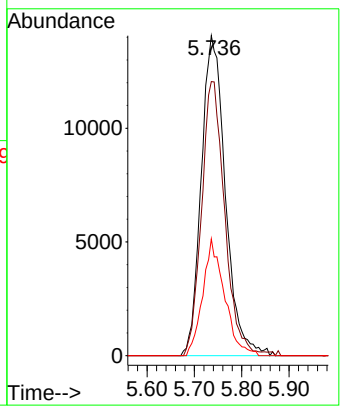




#15
Acrylonitrile
Concen: 25.545 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 53 Resp: 4982

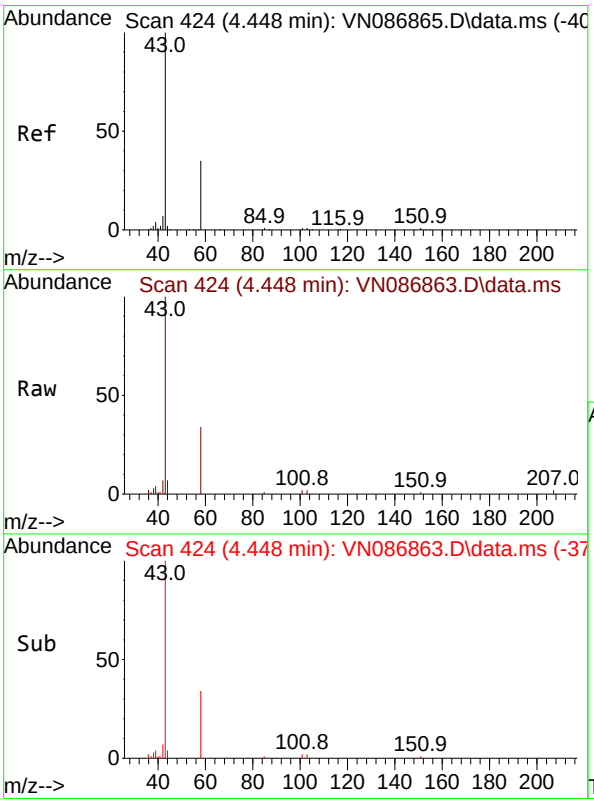
Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.0	97.6
51	32.9	27.2	40.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

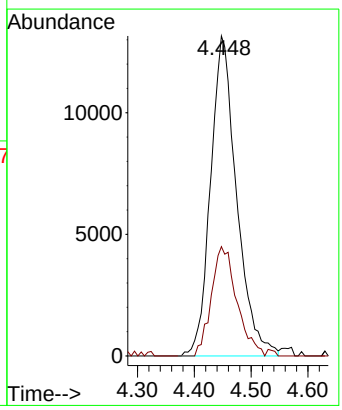
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

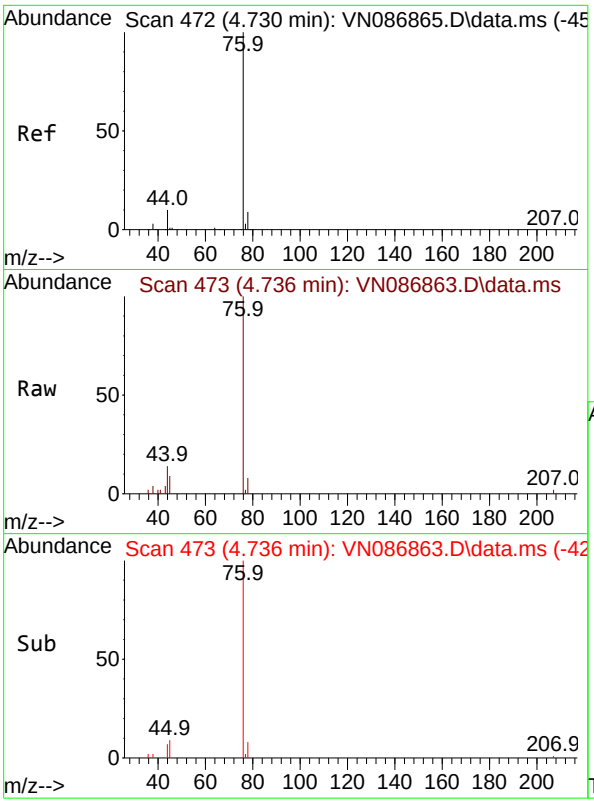


#16
Acetone
Concen: 25.741 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 41981

Ion	Ratio	Lower	Upper
43	100		
58	34.1	28.0	42.0

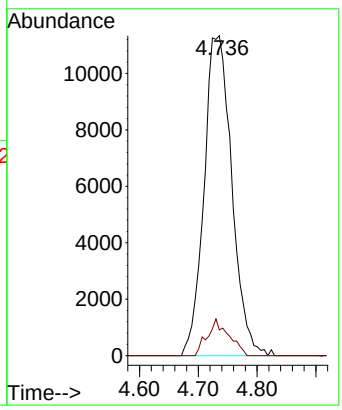




#17
Carbon Disulfide
Concen: 5.267 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 76 Resp: 3724

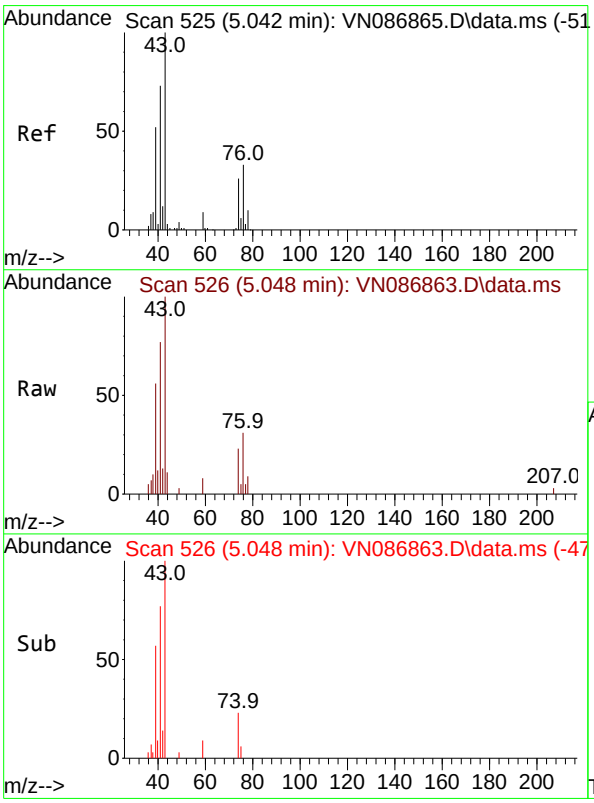
Ion	Ratio	Lower	Upper
76	100		
78	8.0	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

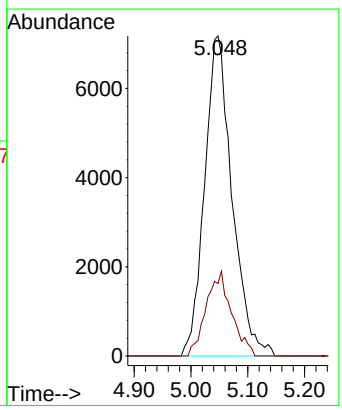
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

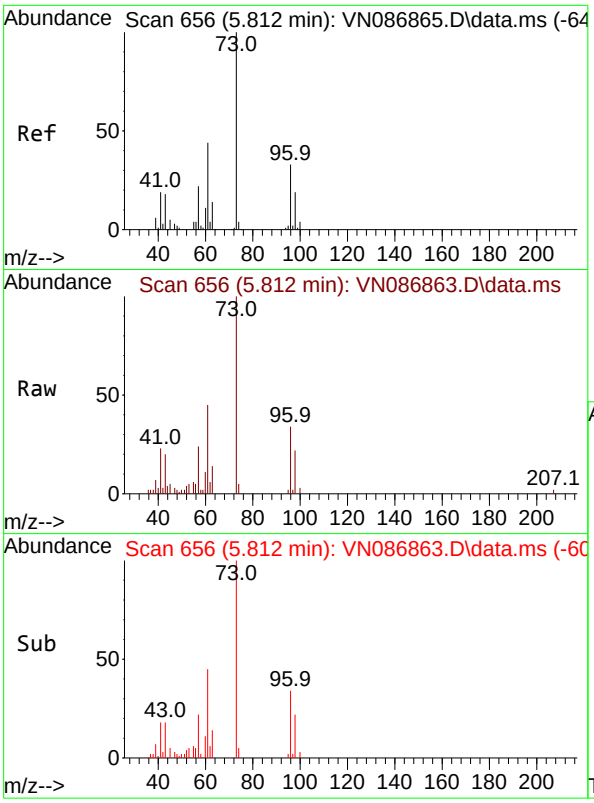


#18
Methyl Acetate
Concen: 5.070 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 24096

Ion	Ratio	Lower	Upper
43	100		
74	24.4	20.7	31.1

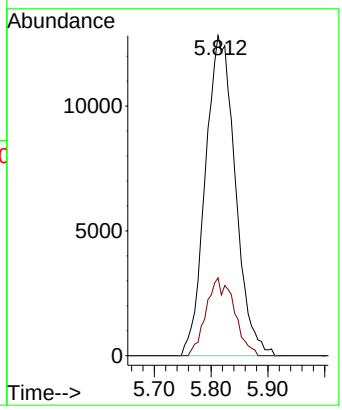




#19
Methyl tert-butyl Ether
Concen: 5.058 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 73 Resp: 4682

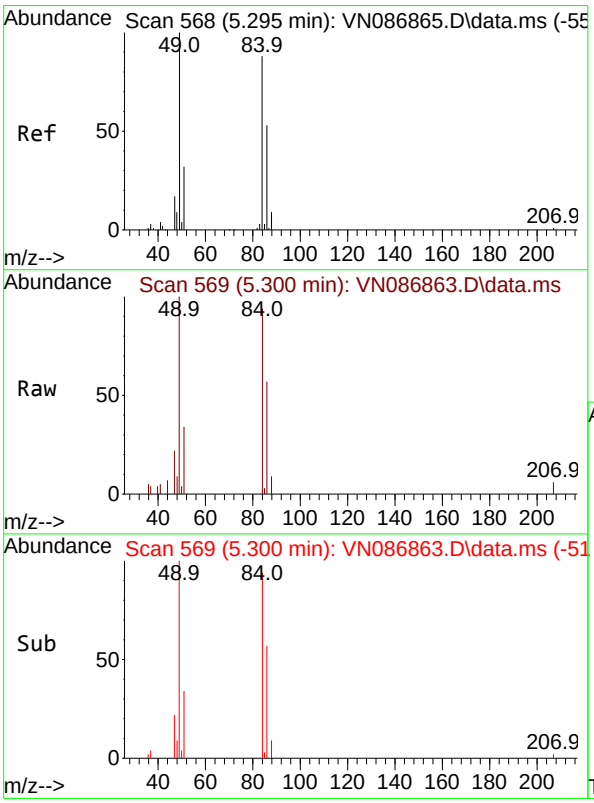
Ion	Ratio	Lower	Upper
73	100		
57	24.3	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

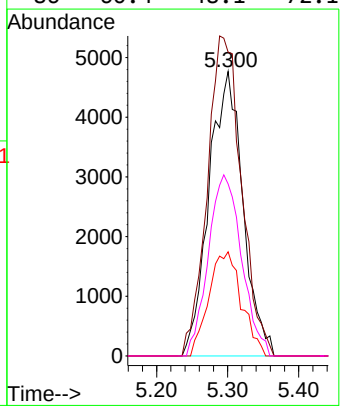
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

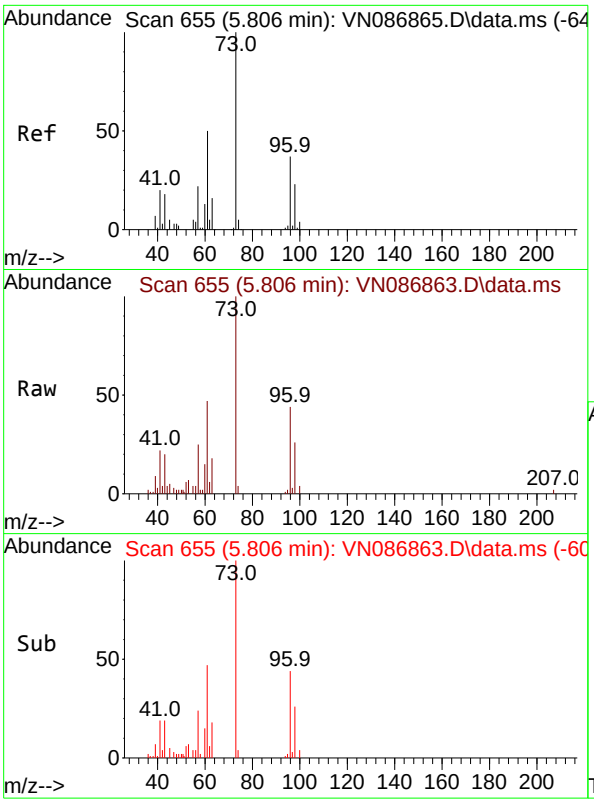


#20
Methylene Chloride
Concen: 5.178 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 84 Resp: 15809

Ion	Ratio	Lower	Upper
84	100		
49	106.8	90.5	135.7
51	36.6	28.5	42.7
86	60.4	48.1	72.1

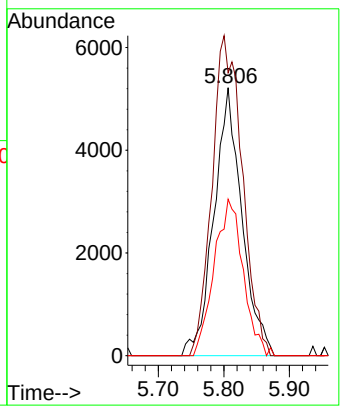




#21
trans-1,2-Dichloroethene
Concen: 5.442 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 96 Resp: 1548

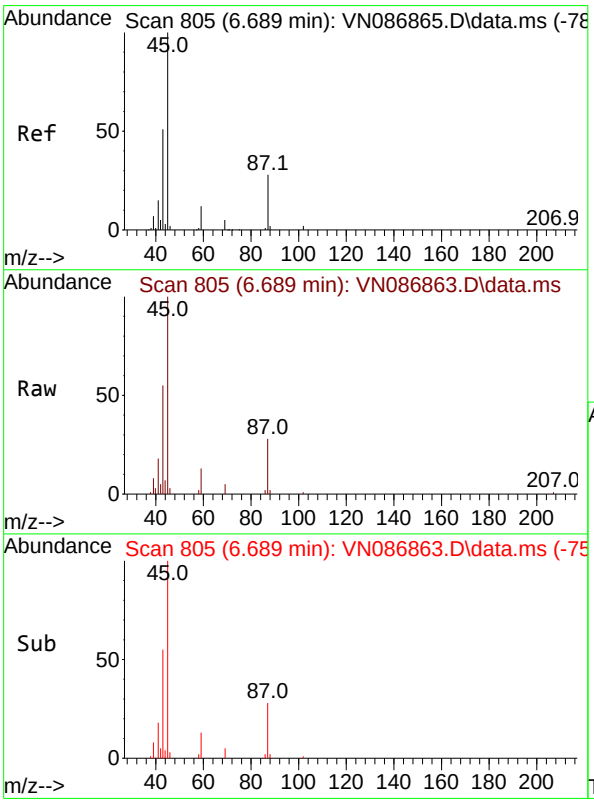
Ion	Ratio	Lower	Upper
96	100		
61	105.6	109.2	163.8
98	58.4	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

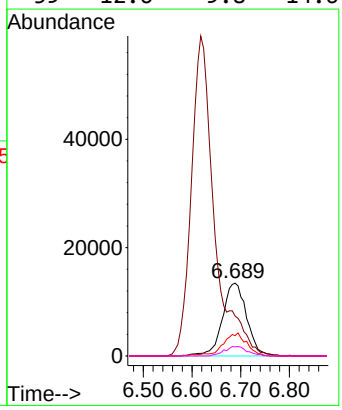
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

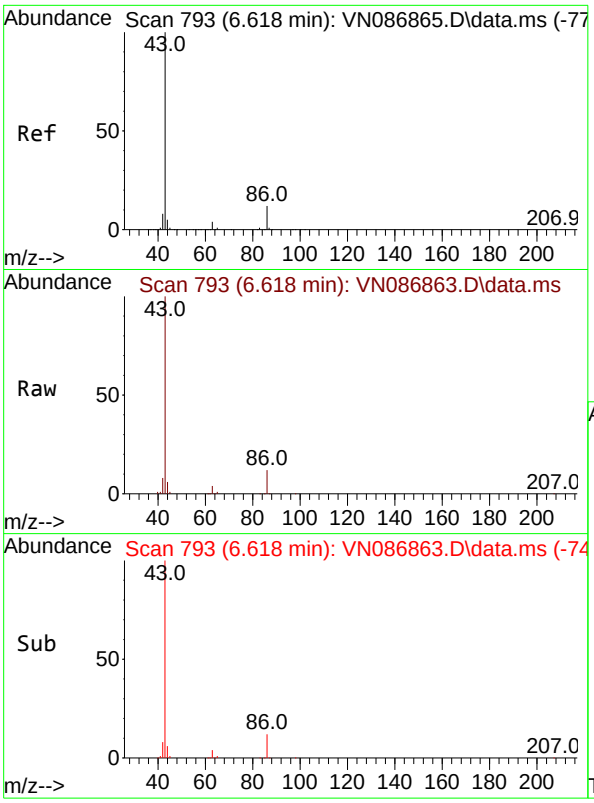


#22
Diisopropyl ether
Concen: 5.191 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 45 Resp: 46396

Ion	Ratio	Lower	Upper
45	100		
43	53.2	41.9	62.9
87	27.9	22.4	33.6
59	12.6	9.8	14.6

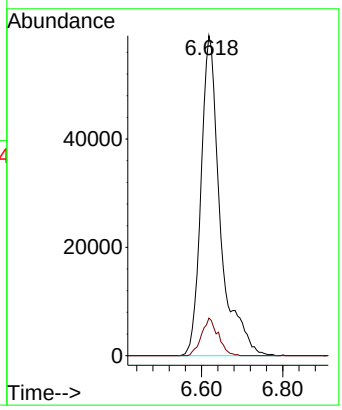




#23
Vinyl Acetate
Concen: 25.735 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 19433

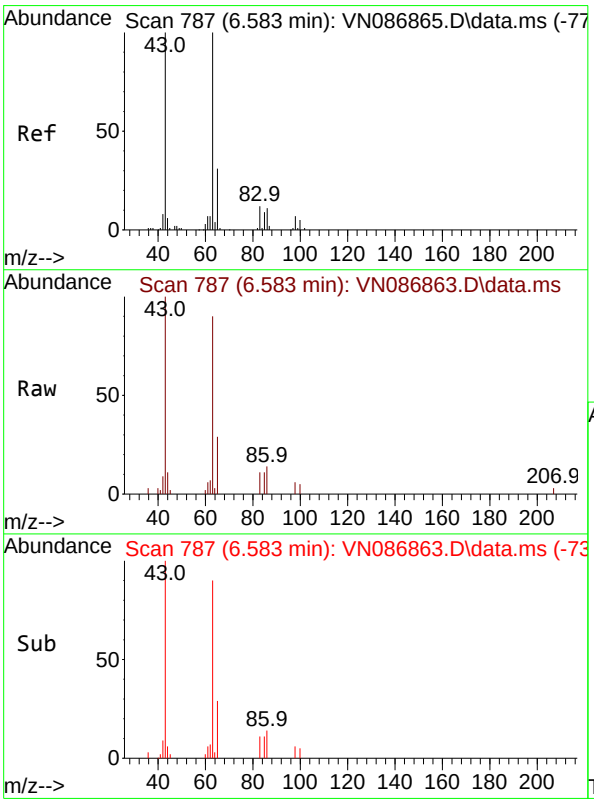
Ion	Ratio	Lower	Upper
43	100		
86	11.8	9.5	14.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

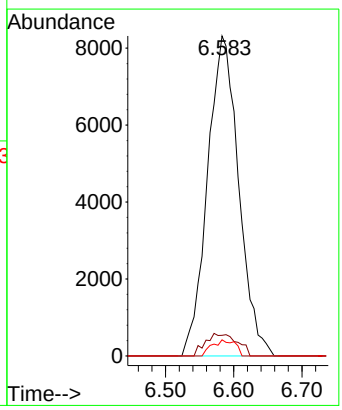
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

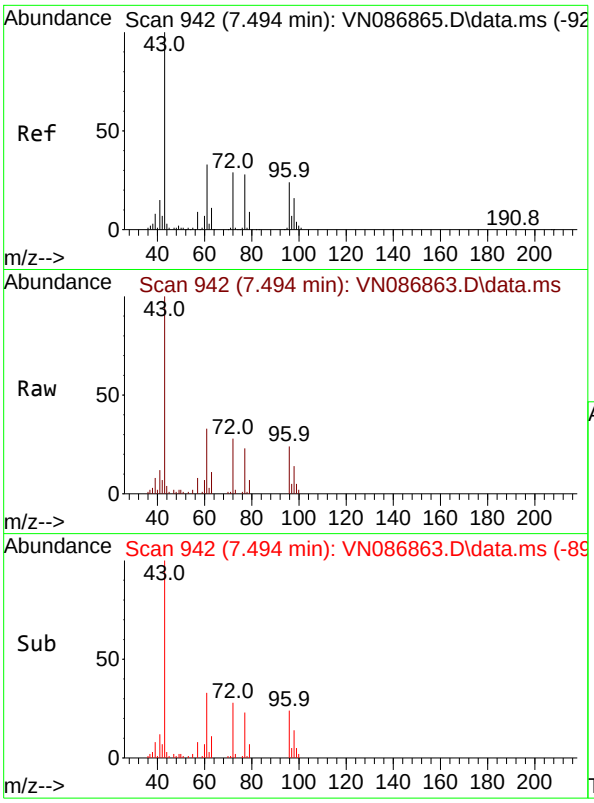


#24
1,1-Dichloroethane
Concen: 5.147 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 63 Resp: 26473

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.6	10.8
100	5.1	2.6	7.8

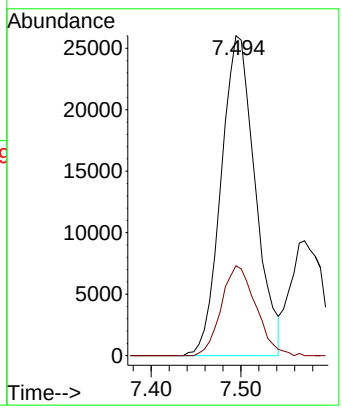




#25
2-Butanone
Concen: 25.888 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 6862

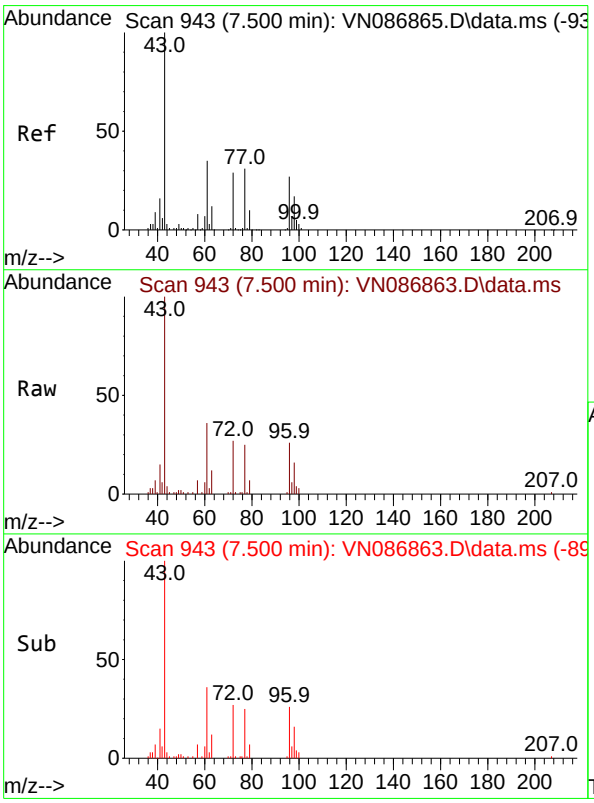
Ion	Ratio	Lower	Upper
43	100		
72	28.1	23.0	34.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

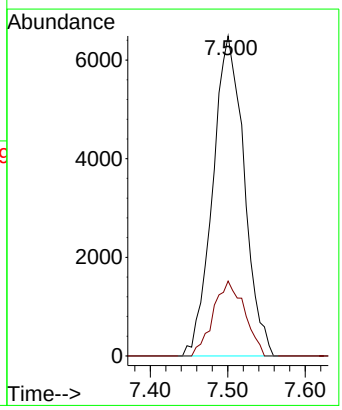
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

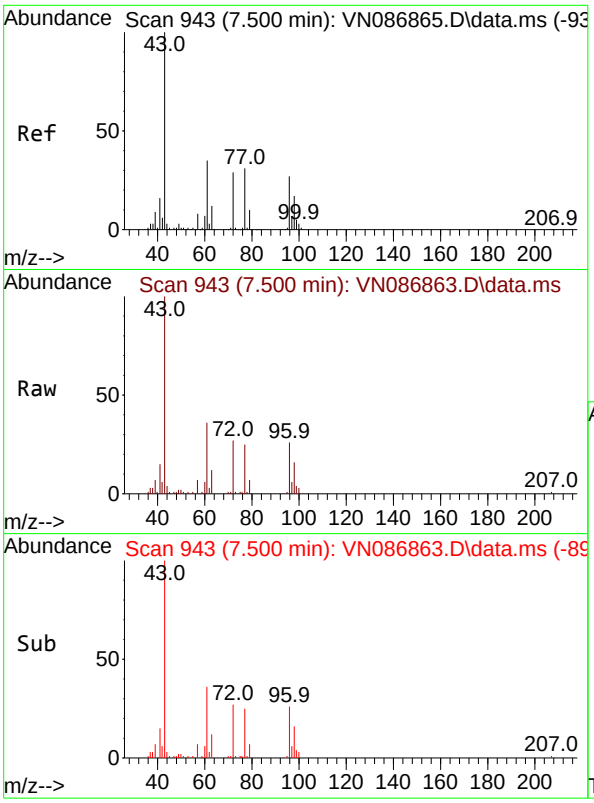


#26
2,2-Dichloropropane
Concen: 4.571 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 77 Resp: 18288

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.6	34.7

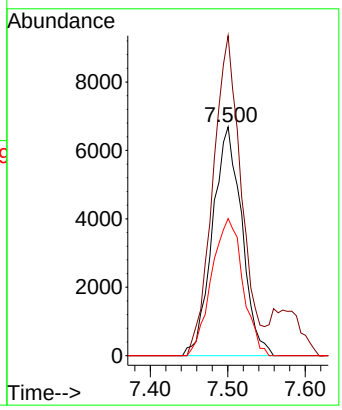




#27
cis-1,2-Dichloroethene
Concen: 5.172 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 96 Resp: 1759

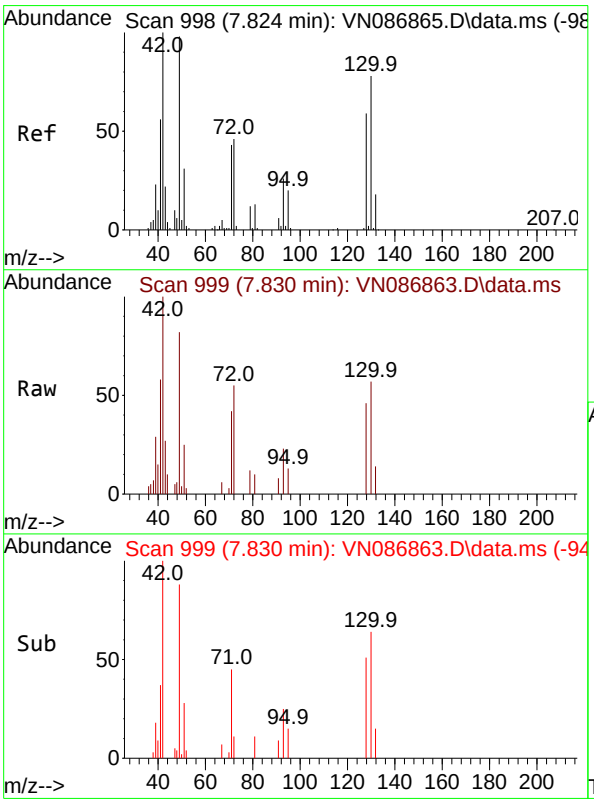
Ion	Ratio	Lower	Upper
96	100		
61	136.0	0.0	278.0
98	64.0	0.0	128.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

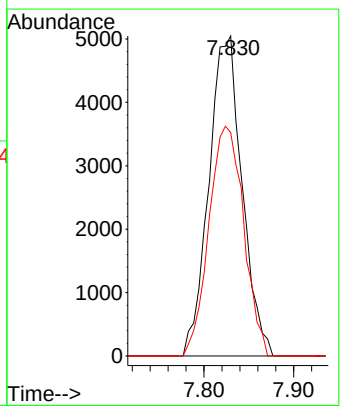
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

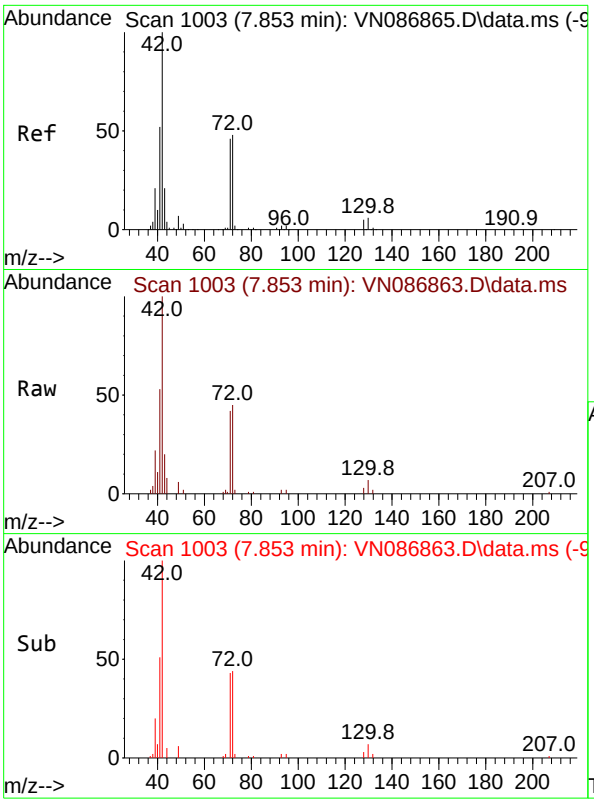


#28
Bromochloromethane
Concen: 5.124 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 49 Resp: 12958

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	75.2	62.2	93.2

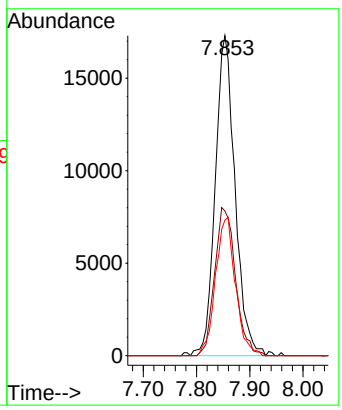




#29
Tetrahydrofuran
Concen: 25.912 ug/l
RT: 7.853 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 42 Resp: 4474

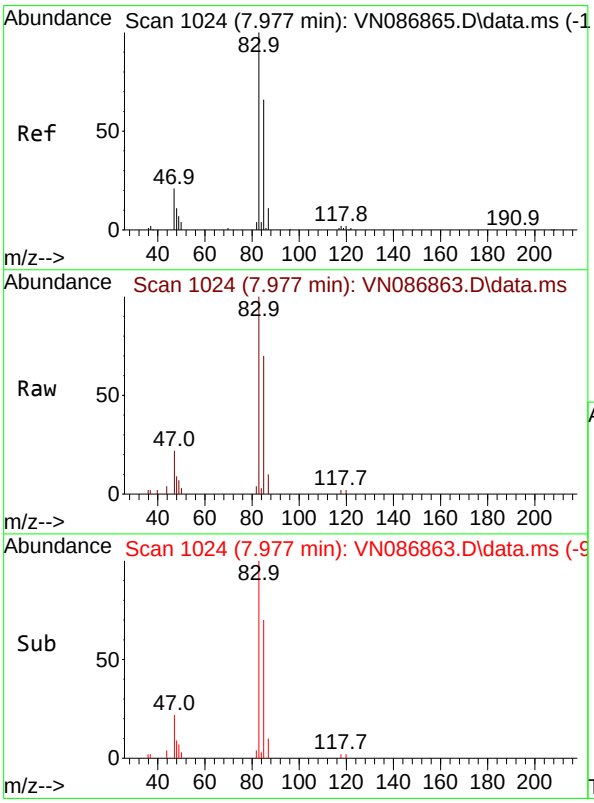
Ion	Ratio	Lower	Upper
42	100		
72	48.6	37.8	56.6
71	43.5	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

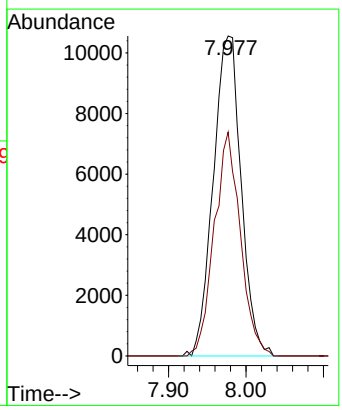
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

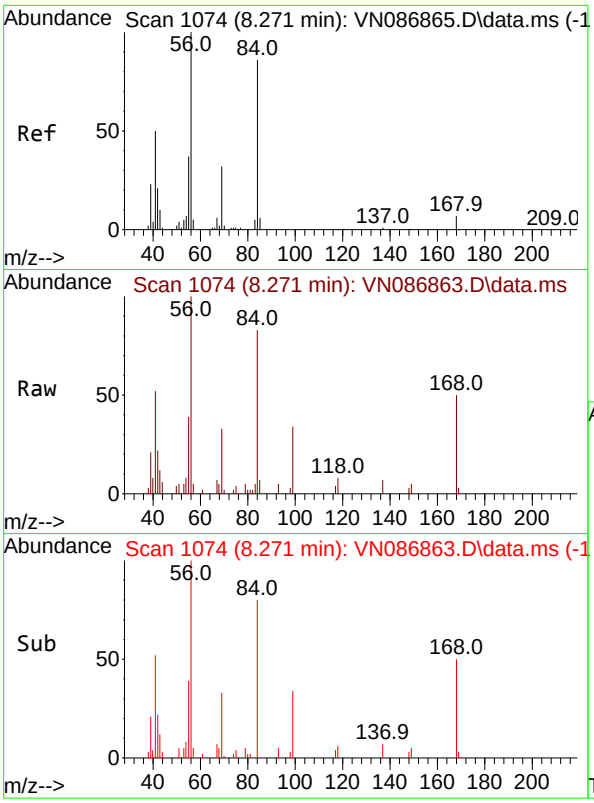


#30
Chloroform
Concen: 5.149 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 83 Resp: 26450

Ion	Ratio	Lower	Upper
83	100		
85	69.9	52.9	79.3

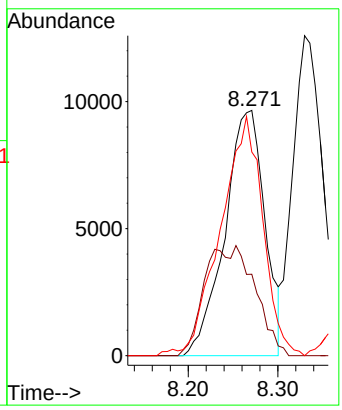




#31
Cyclohexane
Concen: 6.002 ug/l
RT: 8.271 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 56 Resp: 2993

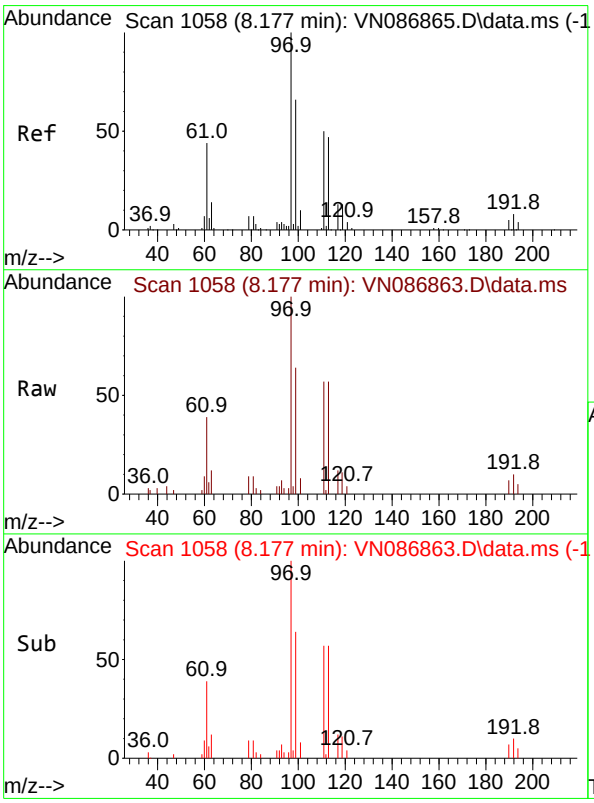
Ion	Ratio	Lower	Upper
56	100		
69	33.2	25.4	38.0
84	81.1	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

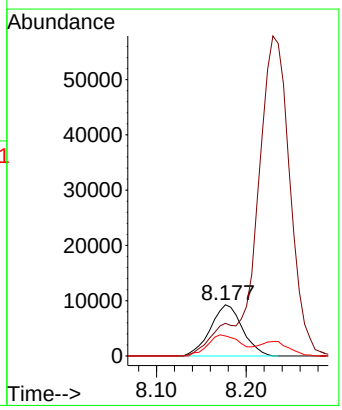
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

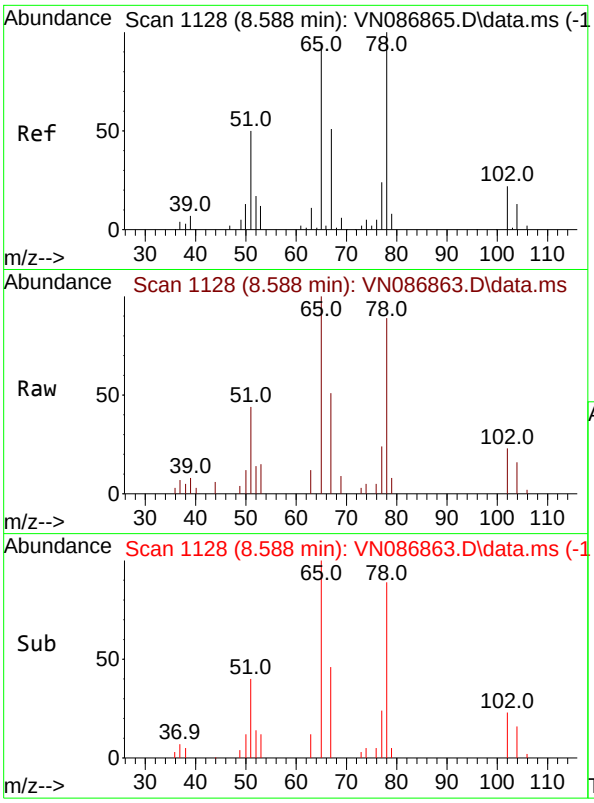


#32
1,1,1-Trichloroethane
Concen: 5.232 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 97 Resp: 22857

Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.0	78.0#
61	42.9	35.9	53.9

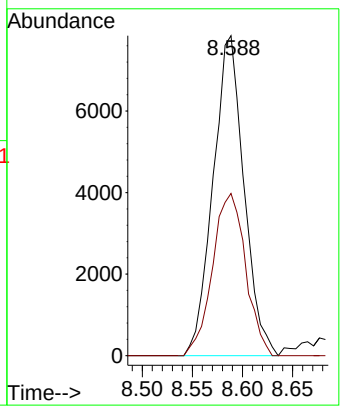




#33
1,2-Dichloroethane-d4
Concen: 5.468 ug/l
RT: 8.588 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 65 Resp: 1681

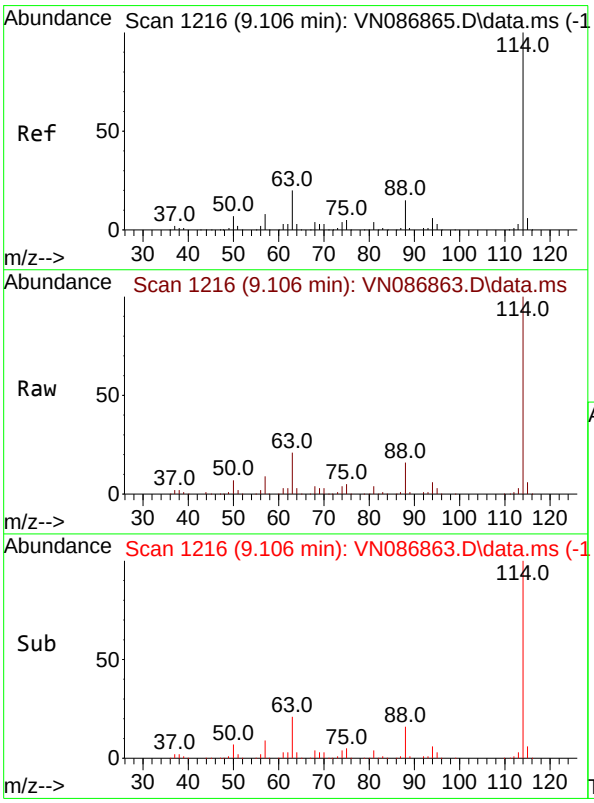
Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

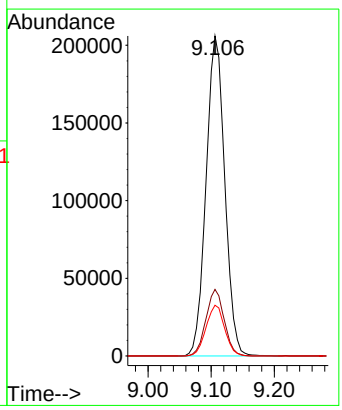
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

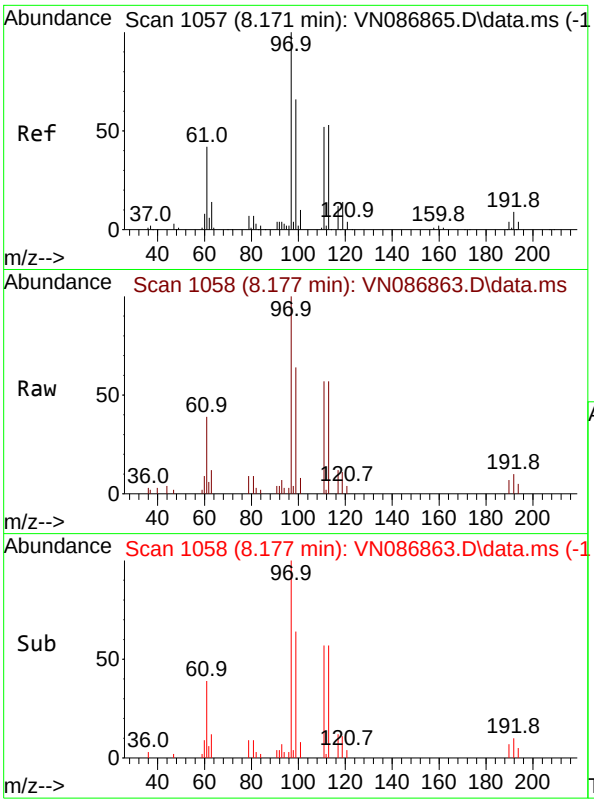


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:114 Resp: 423980

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	39.6
88	15.9	0.0	30.2

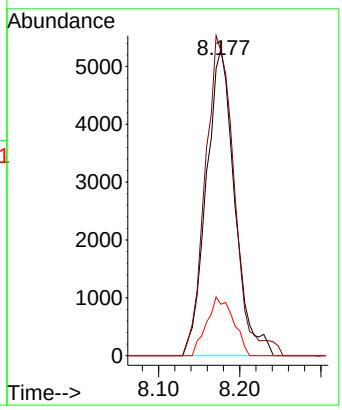




#35
Dibromofluoromethane
Concen: 5.121 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:113 Resp: 1286

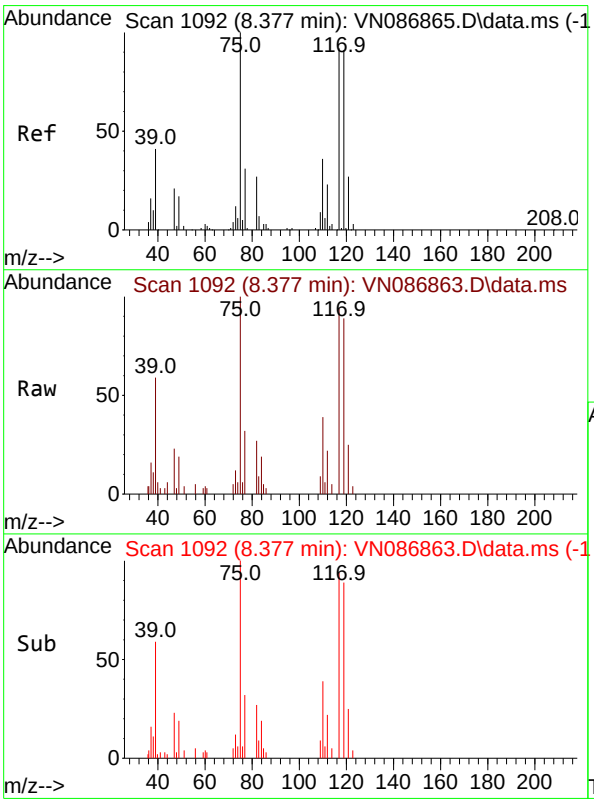
Ion	Ratio	Lower	Upper
113	100		
111	106.5	84.2	126.2
192	18.0	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

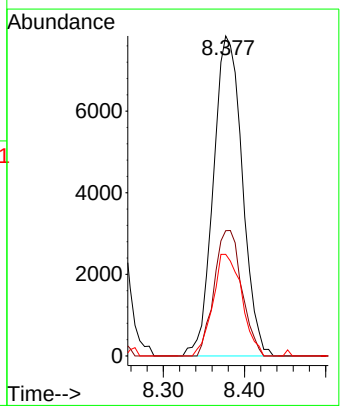
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

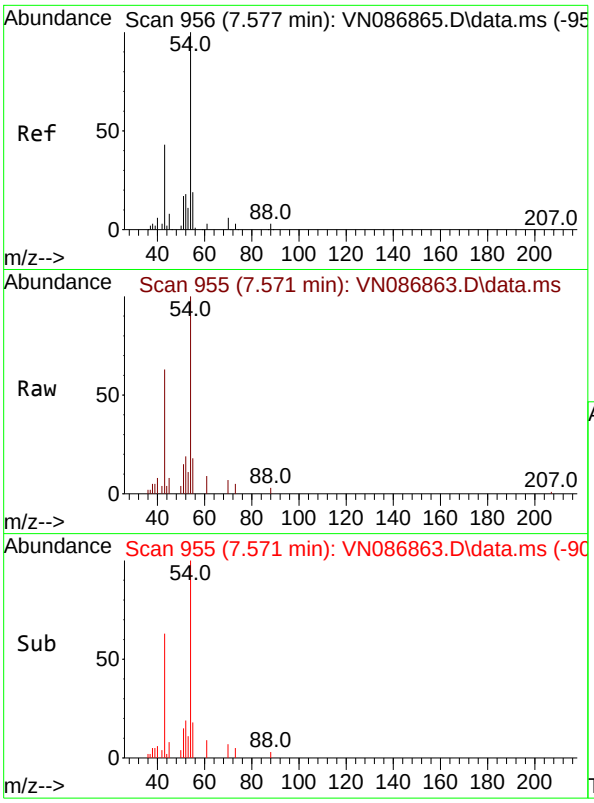


#36
1,1-Dichloropropene
Concen: 5.184 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 75 Resp: 19410

Ion	Ratio	Lower	Upper
75	100		
110	37.4	17.6	52.9
77	31.7	25.3	37.9





#37
Ethyl Acetate
Concen: 5.470 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

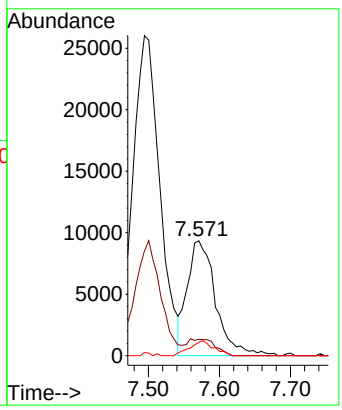
Tgt Ion: 43 Resp: 2607

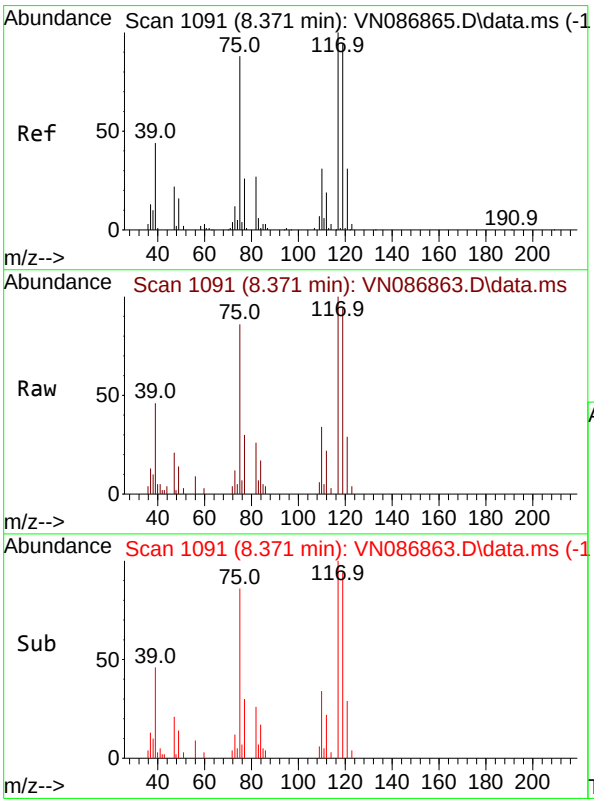
Ion	Ratio	Lower	Upper
43	100		
61	14.1	12.1	18.1
70	10.9	9.8	14.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

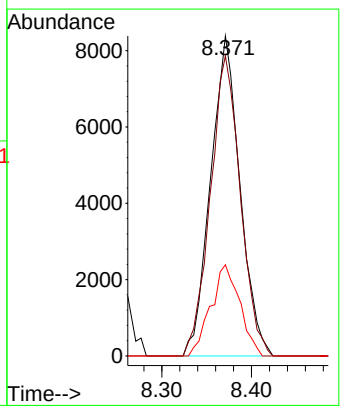


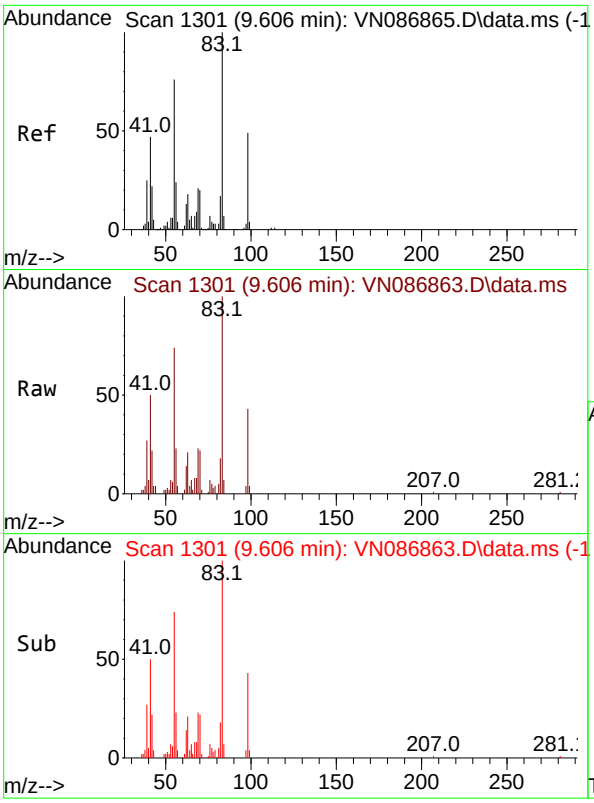


#38
Carbon Tetrachloride
Concen: 5.184 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:117 Resp: 19056

Ion	Ratio	Lower	Upper
117	100		
119	93.8	75.0	112.6
121	28.5	24.9	37.3





#39
Methylcyclohexane
Concen: 5.333 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

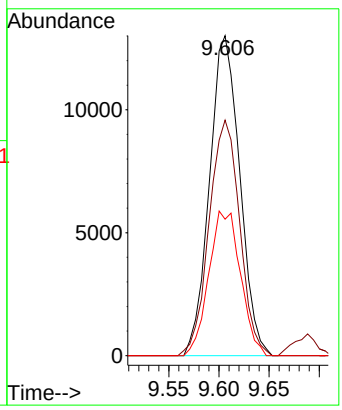
Tgt Ion: 83 Resp: 2735

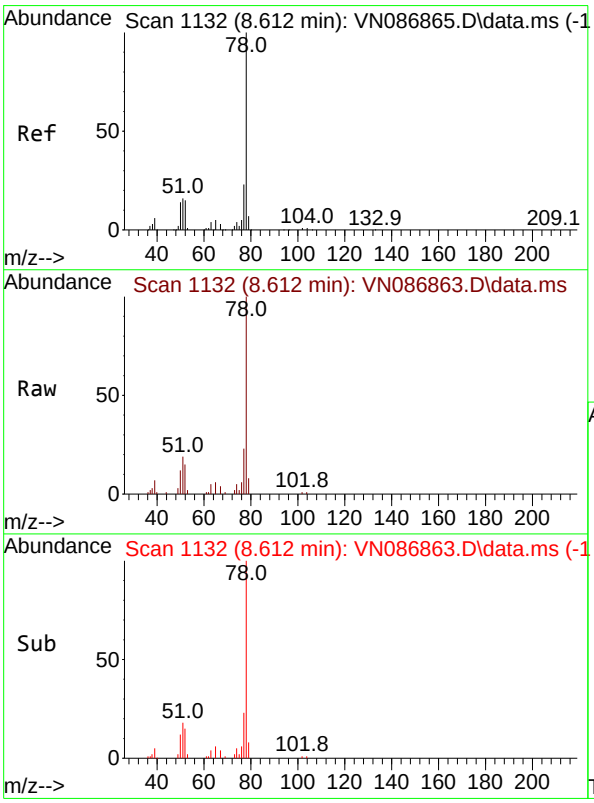
Ion	Ratio	Lower	Upper
83	100		
55	73.6	61.0	91.6
98	42.6	38.9	58.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

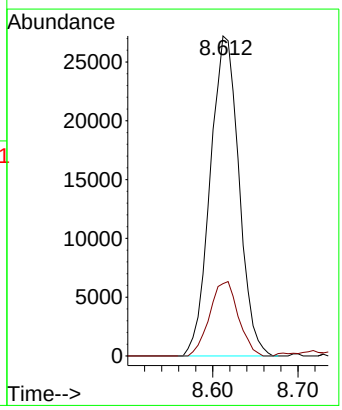


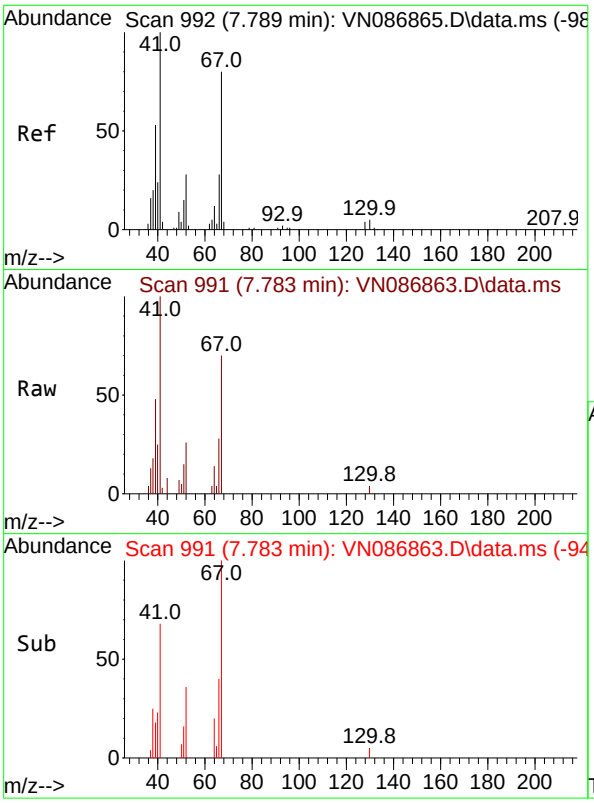


#40
Benzene
Concen: 5.199 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 78 Resp: 63646

Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.7	28.1

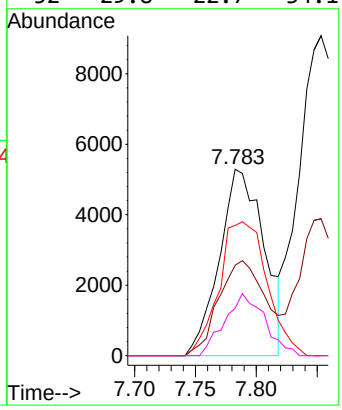




#41
Methacrylonitrile
Concen: 5.050 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 41 Resp: 1351

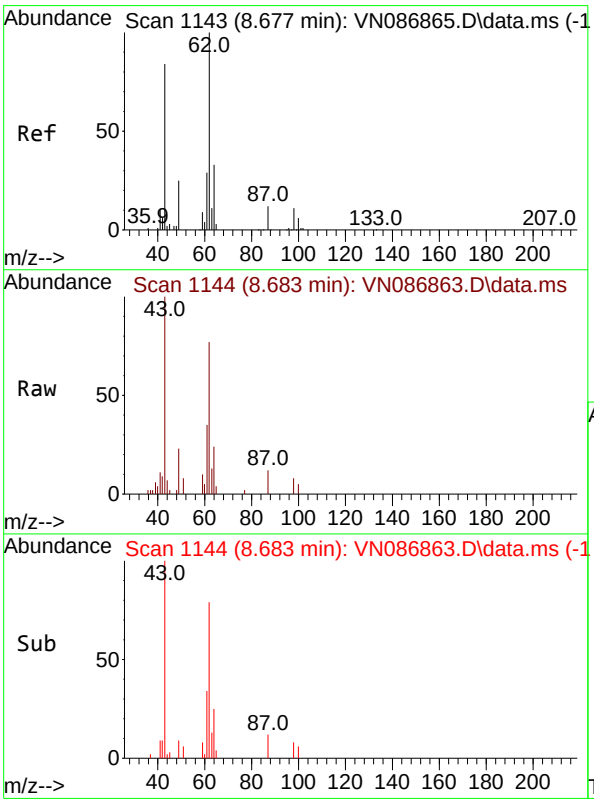
Ion	Ratio	Lower	Upper
41	100		
39	53.1	41.2	61.8
67	77.0	61.4	92.2
52	29.8	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

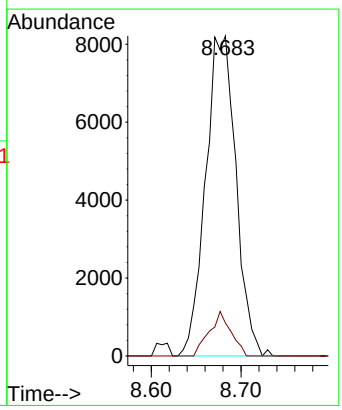
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

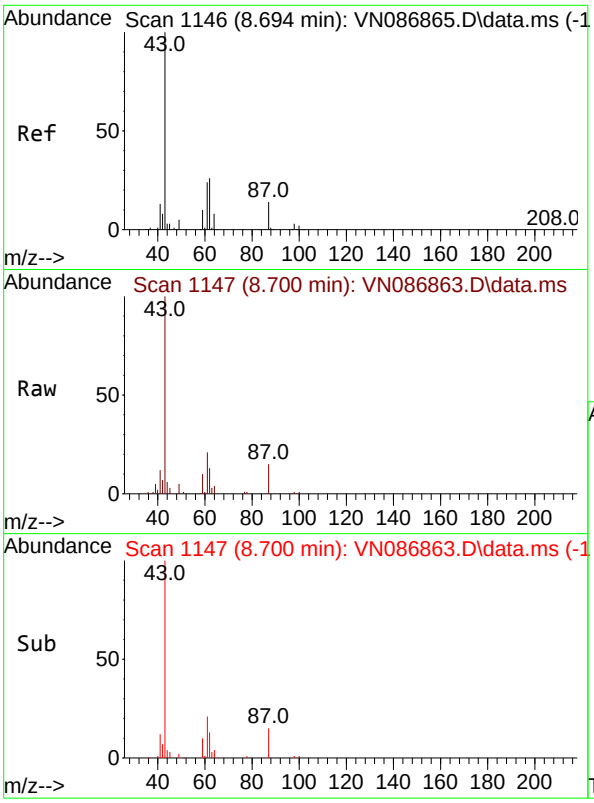


#42
1,2-Dichloroethane
Concen: 5.205 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 62 Resp: 19329

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	21.2

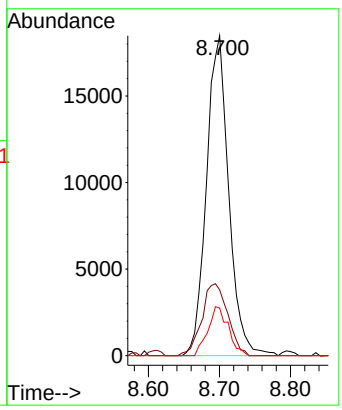




#43
Isopropyl Acetate
Concen: 5.264 ug/l
RT: 8.700 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 4026

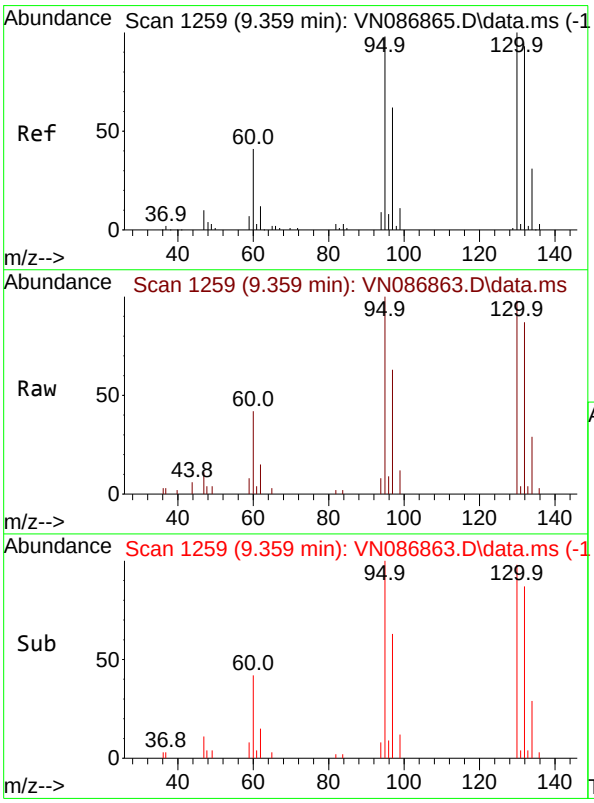
Ion	Ratio	Lower	Upper
43	100		
61	26.2	22.1	33.1
87	14.1	11.8	17.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

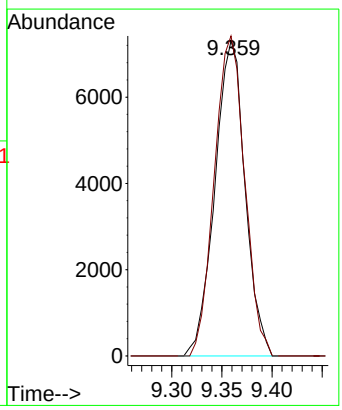
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

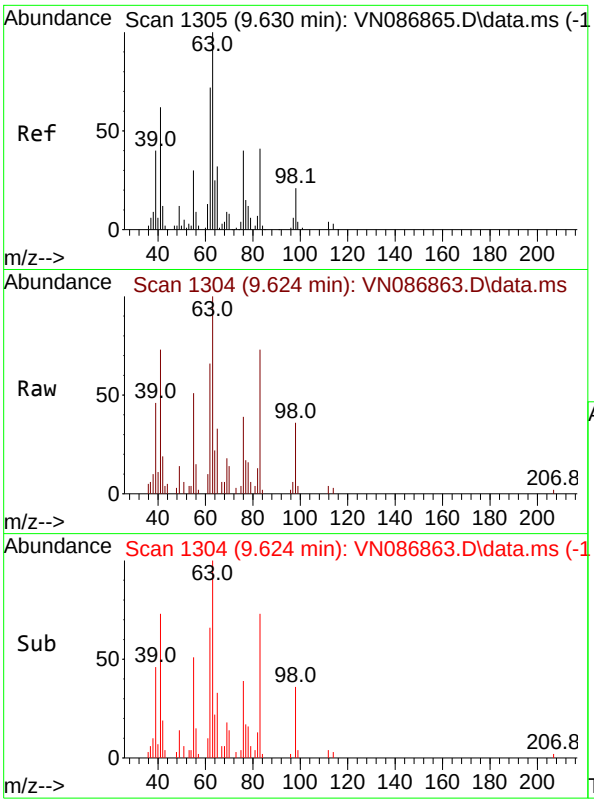


#44
Trichloroethene
Concen: 5.251 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:130 Resp: 15245

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	196.2

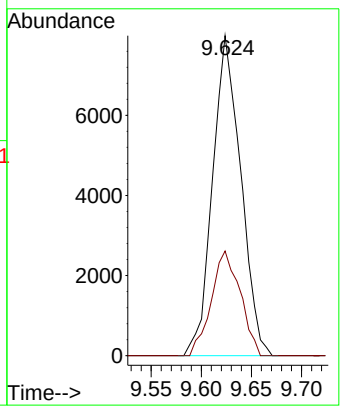




#45
1,2-Dichloropropane
Concen: 5.248 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 63 Resp: 1563

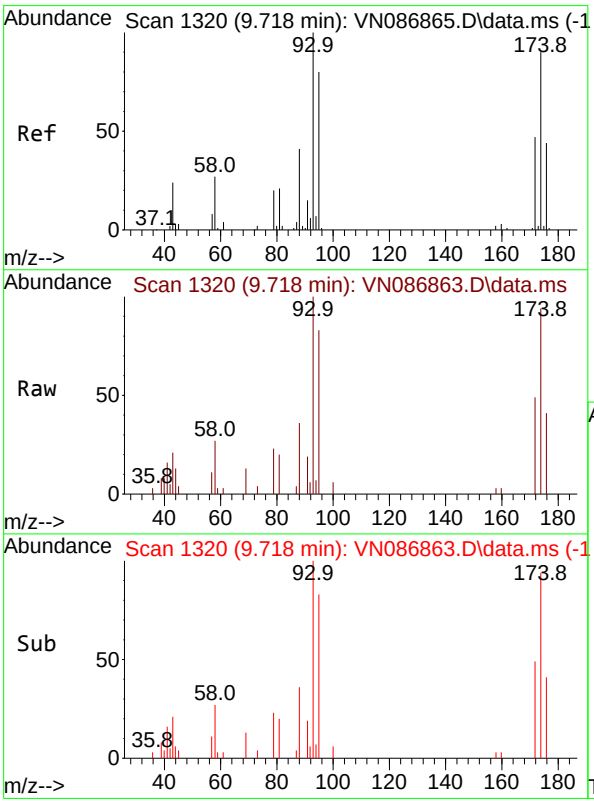
Ion	Ratio	Lower	Upper
63	100		
65	32.7	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

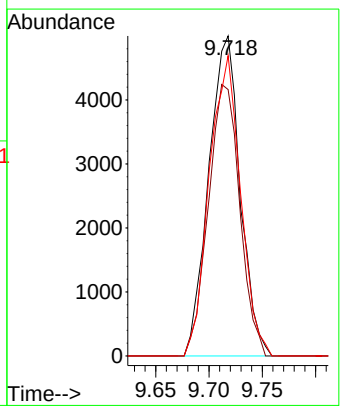
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

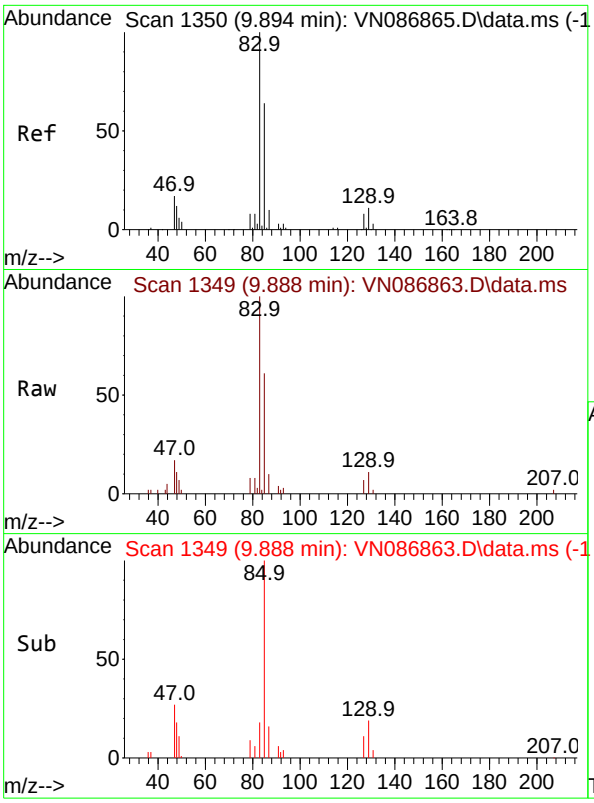


#46
Dibromomethane
Concen: 5.176 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 93 Resp: 10241

Ion	Ratio	Lower	Upper
93	100		
95	84.9	67.1	100.7
174	93.4	74.2	111.4

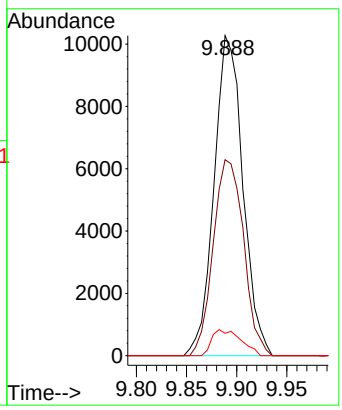




#47
Bromodichloromethane
Concen: 5.039 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 83 Resp: 2051

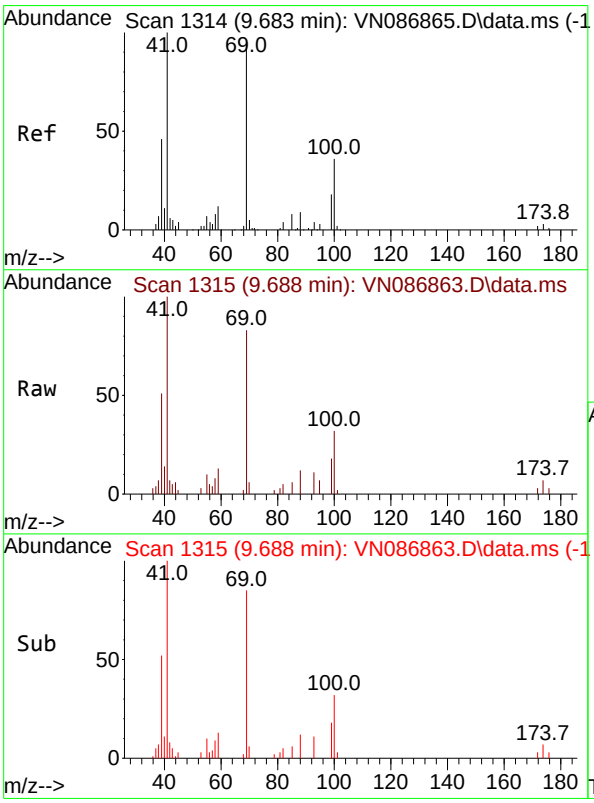
Ion	Ratio	Lower	Upper
83	100		
85	61.3	50.9	76.3
127	7.0	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

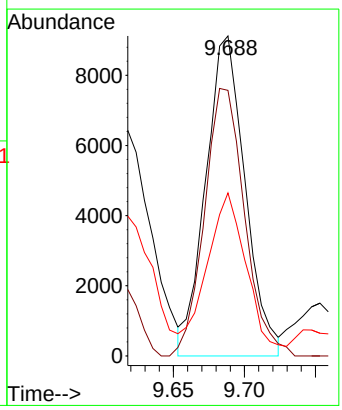
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

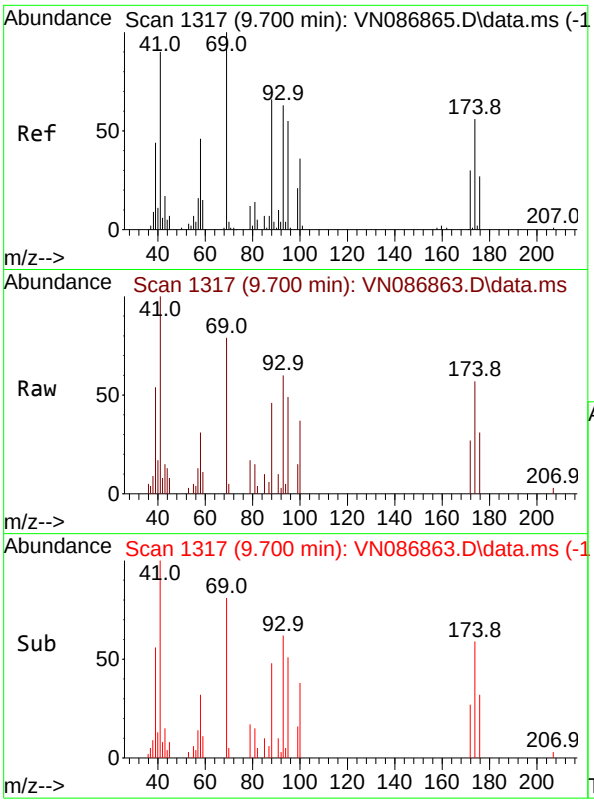


#48
Methyl methacrylate
Concen: 4.996 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 41 Resp: 17591

Ion	Ratio	Lower	Upper
41	100		
69	85.2	74.6	112.0
39	52.3	40.2	60.4

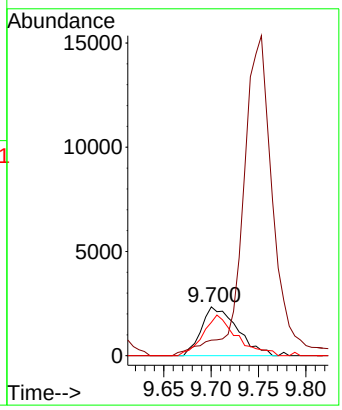




#49
1,4-Dioxane
Concen: 95.874 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 88 Resp: 614

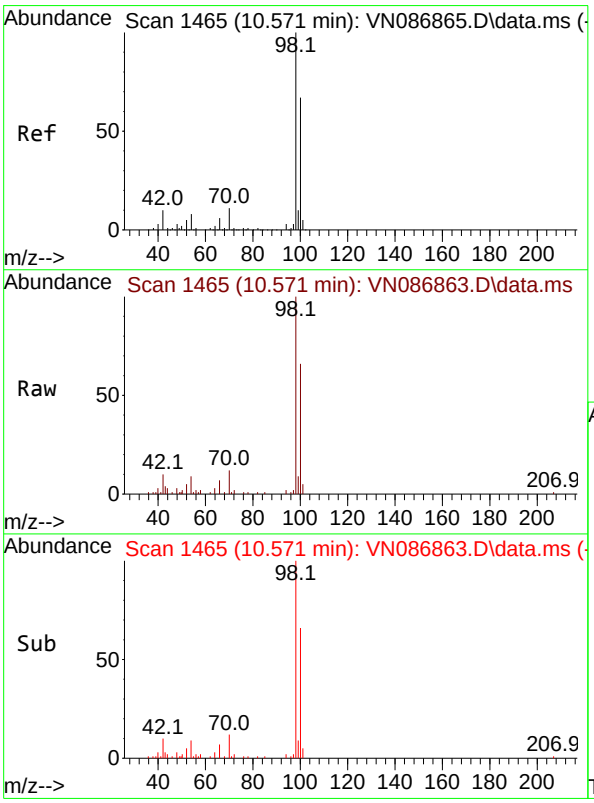
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	77.9	57.7	86.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

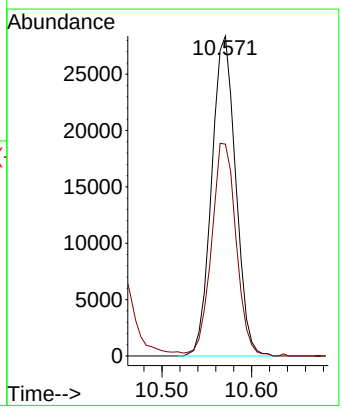
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

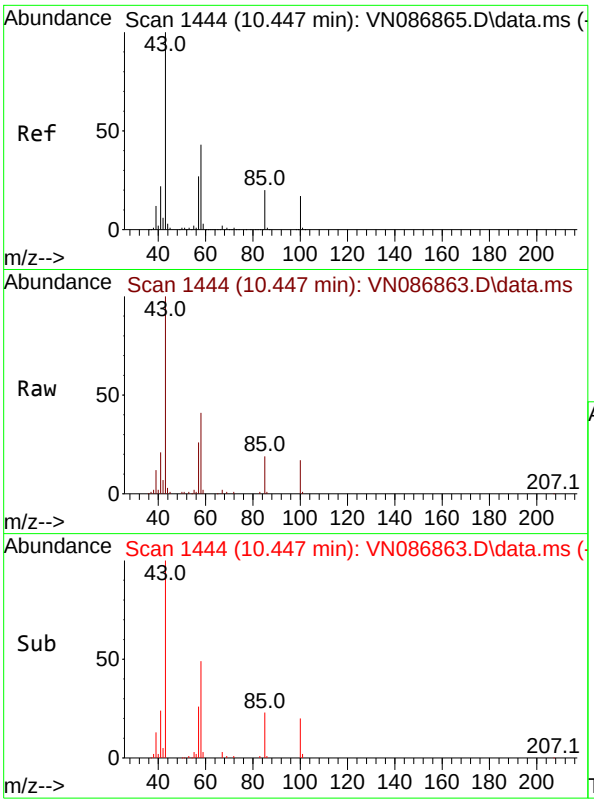


#50
Toluene-d8
Concen: 5.308 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 98 Resp: 52794

Ion	Ratio	Lower	Upper
98	100		
100	68.1	53.4	80.0

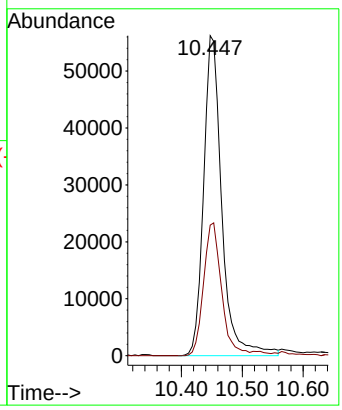




#51
4-Methyl-2-Pentanone
Concen: 25.283 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 11643

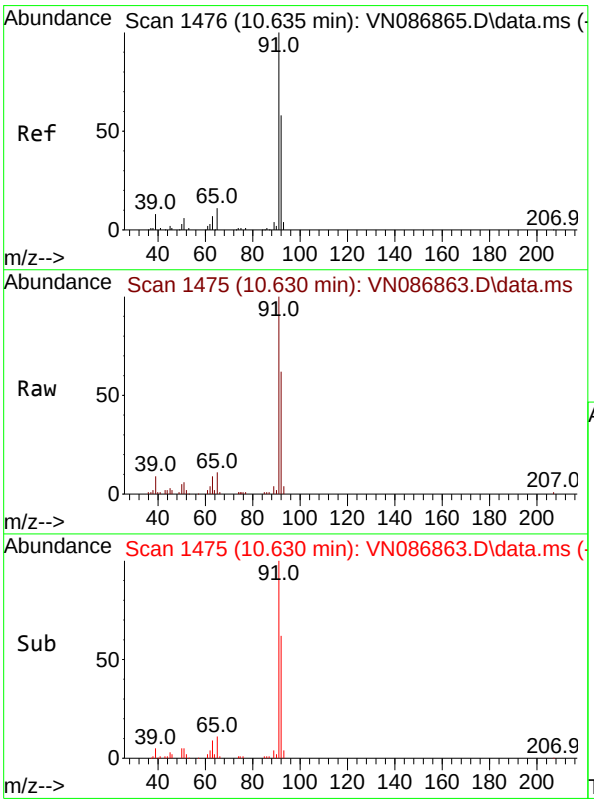
Ion	Ratio	Lower	Upper
43	100		
58	40.9	34.2	51.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

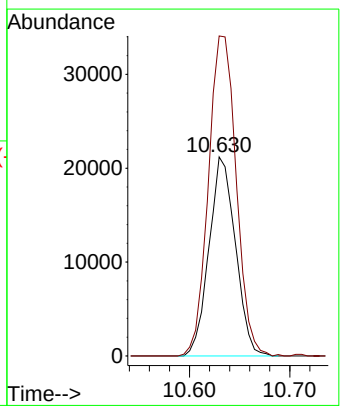
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

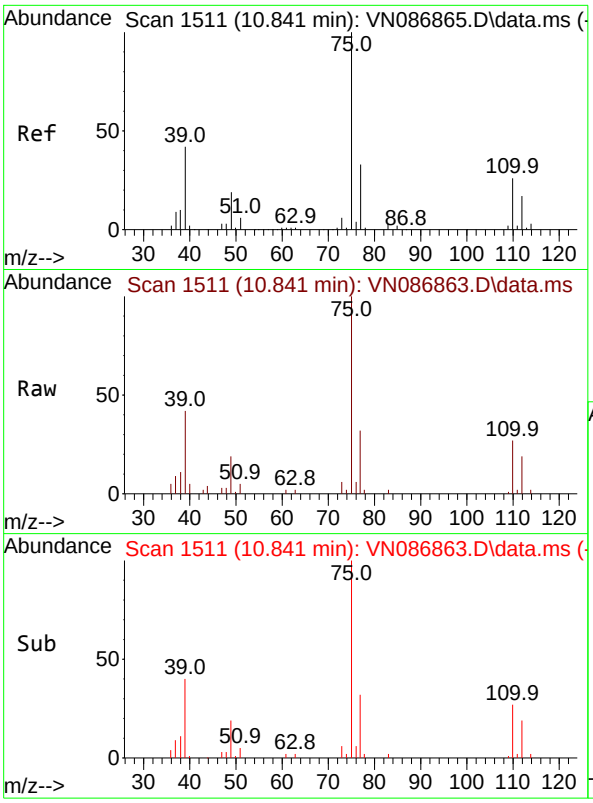


#52
Toluene
Concen: 5.178 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 92 Resp: 38744

Ion	Ratio	Lower	Upper
92	100		
91	169.5	136.5	204.7

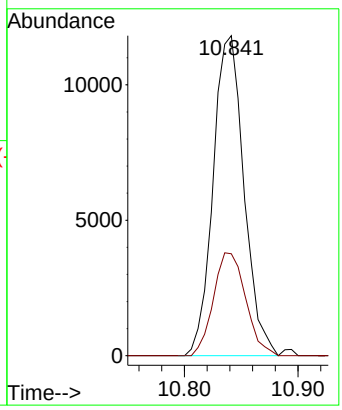




#53
t-1,3-Dichloropropene
Concen: 4.896 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 75 Resp: 2228

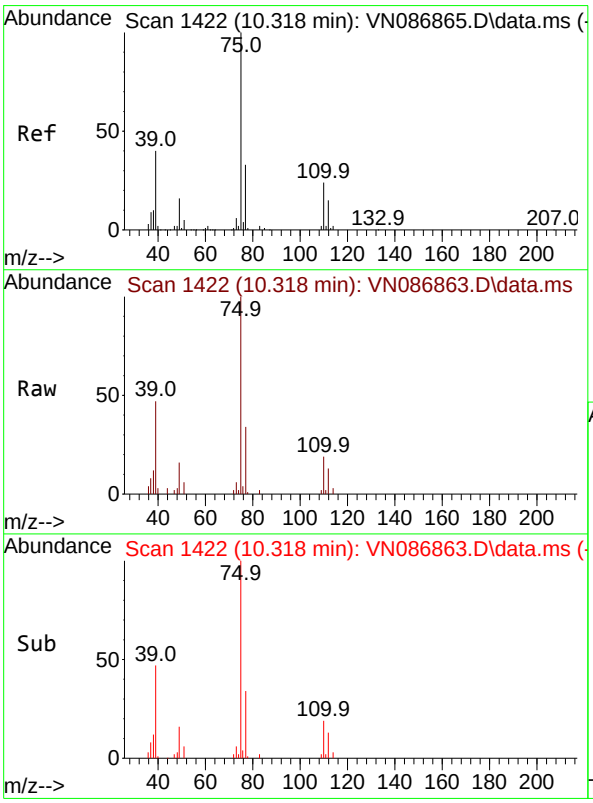
Ion	Ratio	Lower	Upper
75	100		
77	31.9	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

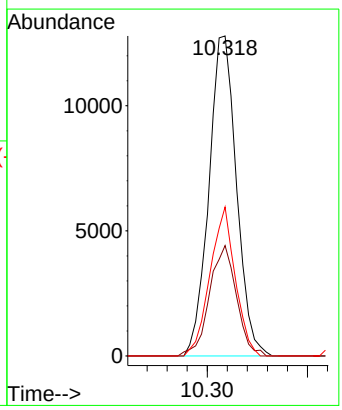
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

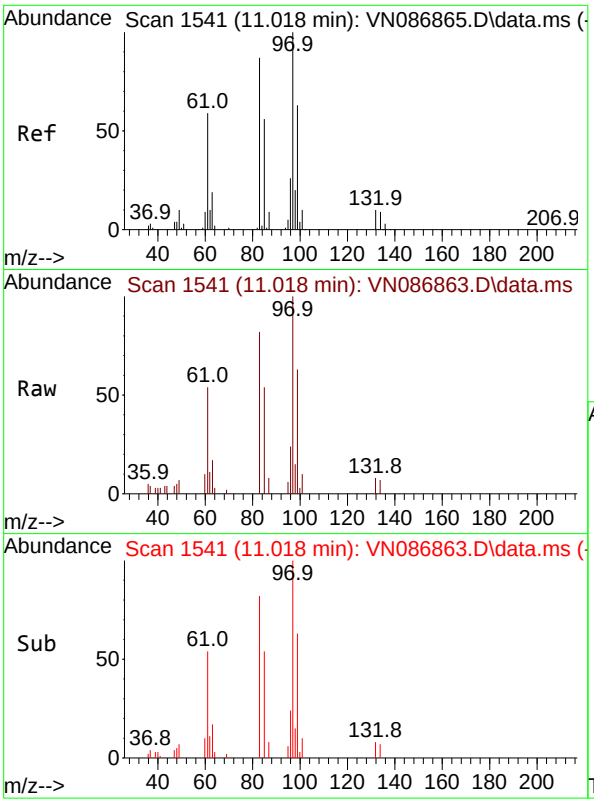


#54
cis-1,3-Dichloropropene
Concen: 5.026 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 75 Resp: 24477

Ion	Ratio	Lower	Upper
75	100		
77	34.5	26.2	39.4
39	46.5	32.3	48.5

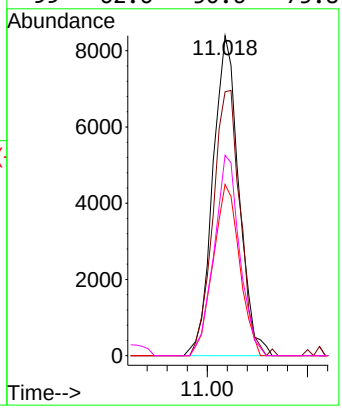




#55
1,1,2-Trichloroethane
Concen: 5.234 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 97 Resp: 1506

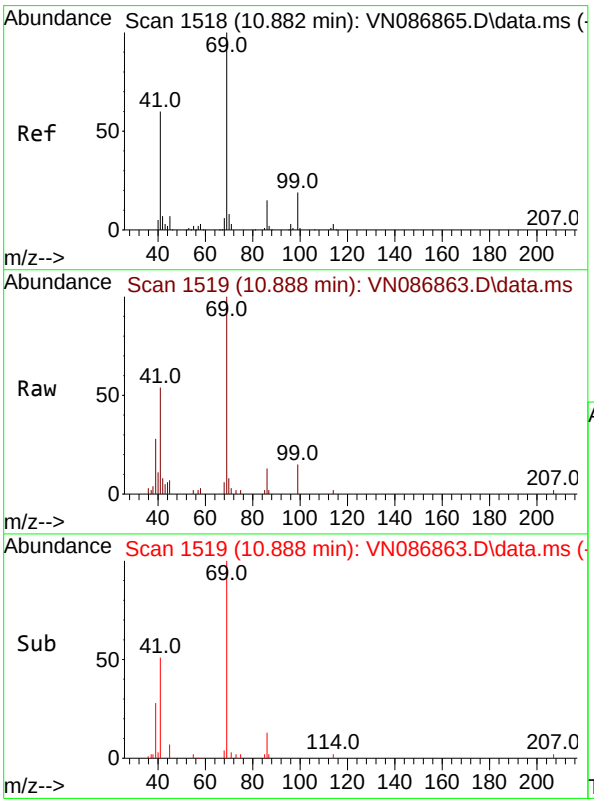
Ion	Ratio	Lower	Upper
97	100		
83	82.5	69.7	104.5
85	53.5	45.1	67.7
99	62.6	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

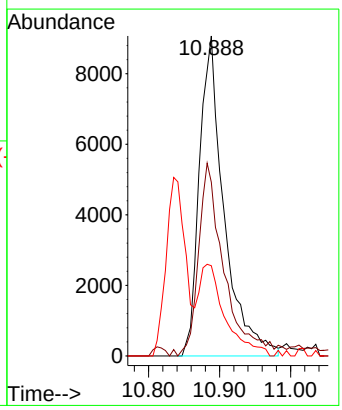
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

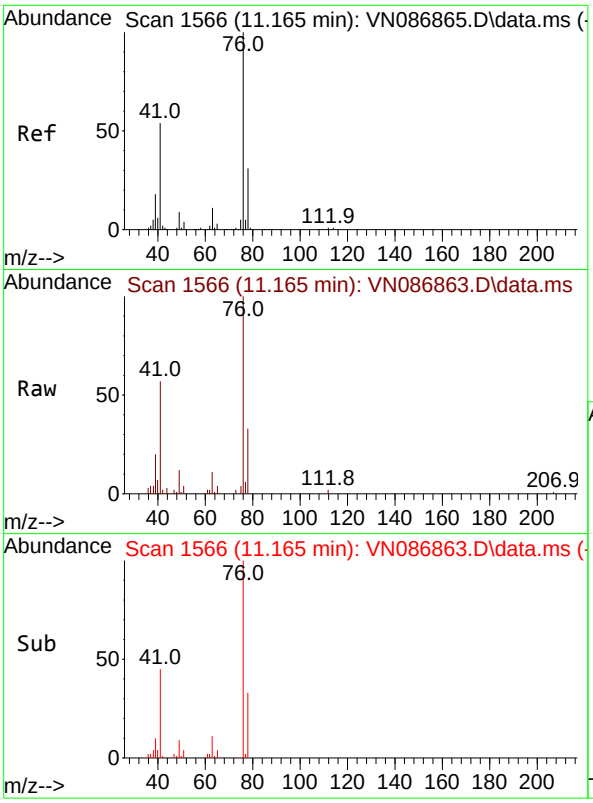


#56
Ethyl methacrylate
Concen: 4.774 ug/l
RT: 10.888 min Scan# 1519
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 69 Resp: 21893

Ion	Ratio	Lower	Upper
69	100		
41	63.5	47.2	70.8
39	29.9	23.0	34.6





#57
1,3-Dichloropropane
Concen: 5.096 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

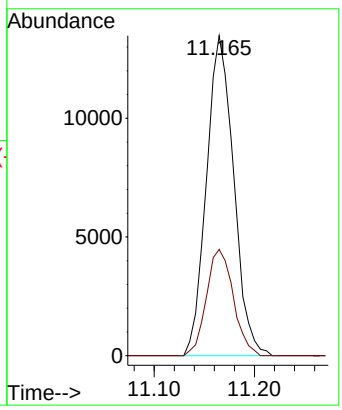
Tgt Ion: 76 Resp: 2545

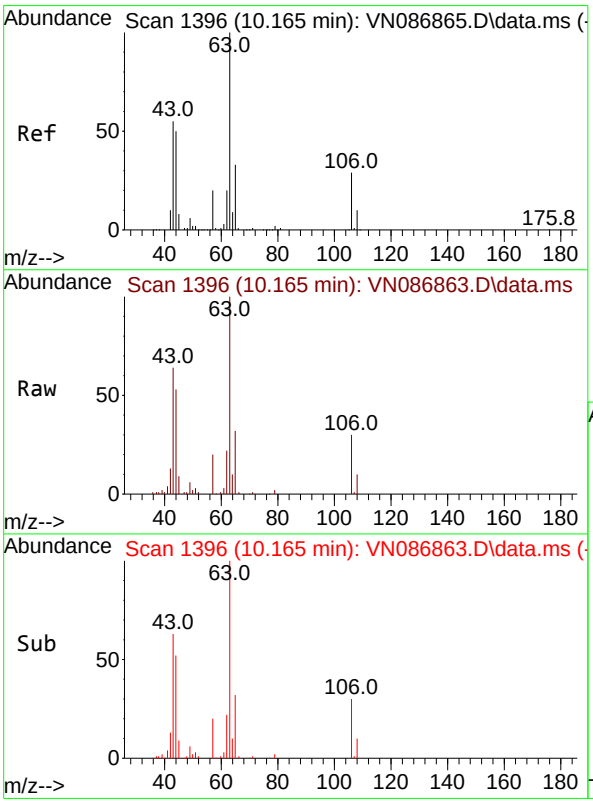
Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.3	37.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

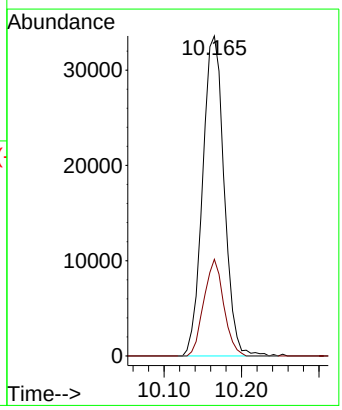


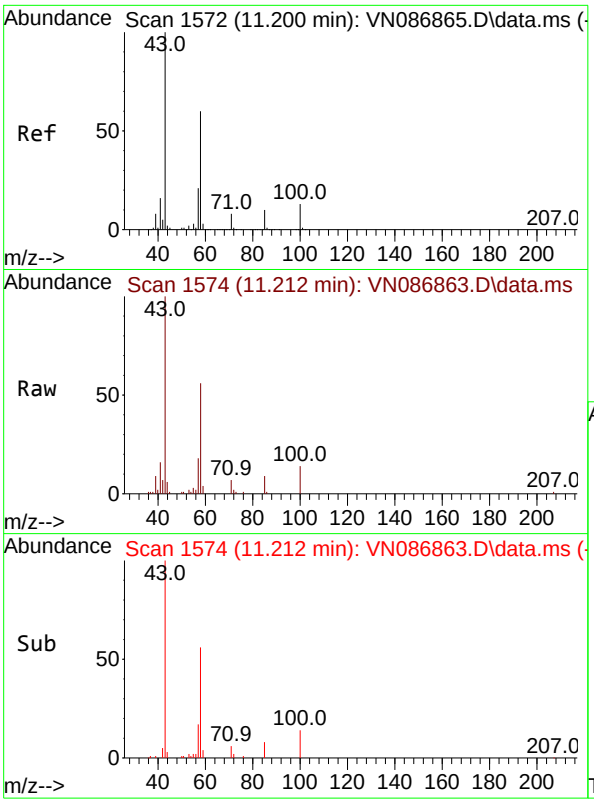


#58
2-Chloroethyl Vinyl ether
Concen: 23.664 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 63 Resp: 64722

Ion	Ratio	Lower	Upper
63	100		
106	27.9	23.0	34.6

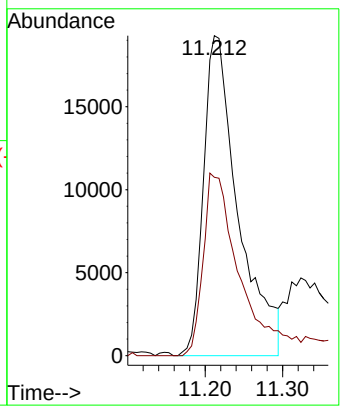




#59
2-Hexanone
Concen: 20.188 ug/l
RT: 11.212 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 5988

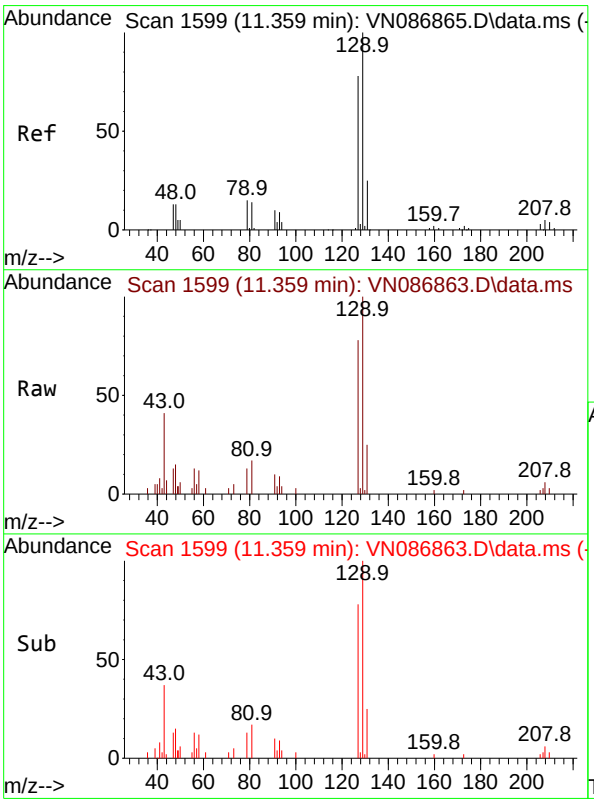
Ion	Ratio	Lower	Upper
43	100		
58	60.5	30.4	91.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

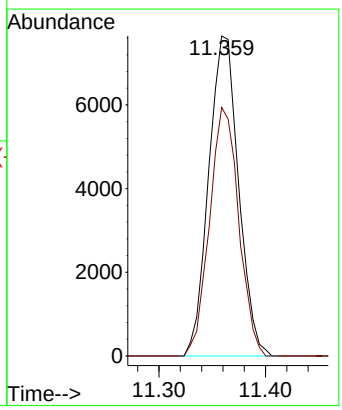
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

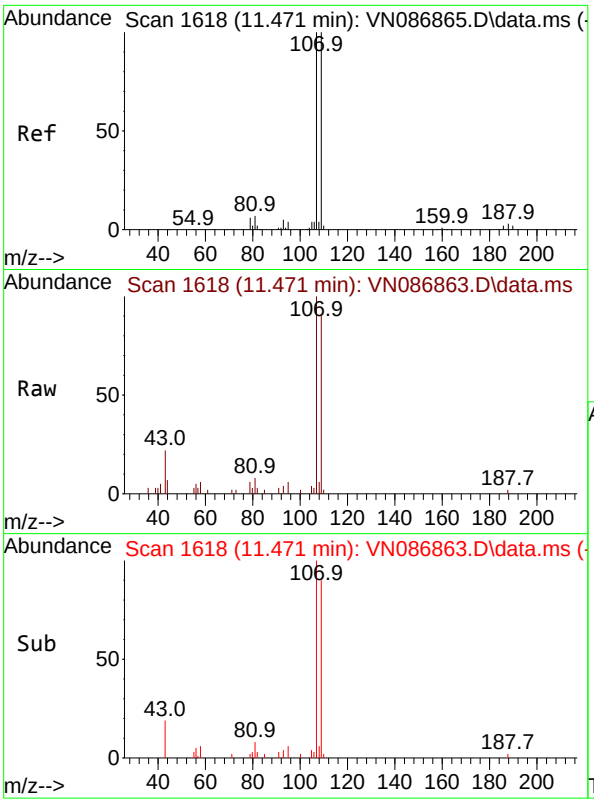


#60
Dibromochloromethane
Concen: 4.962 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:129 Resp: 14884

Ion	Ratio	Lower	Upper
129	100		
127	75.9	38.6	115.8

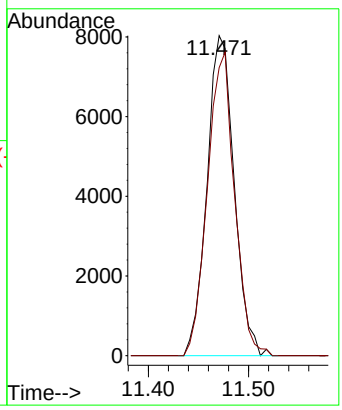




#61
1,2-Dibromoethane
Concen: 5.141 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:107 Resp: 1517

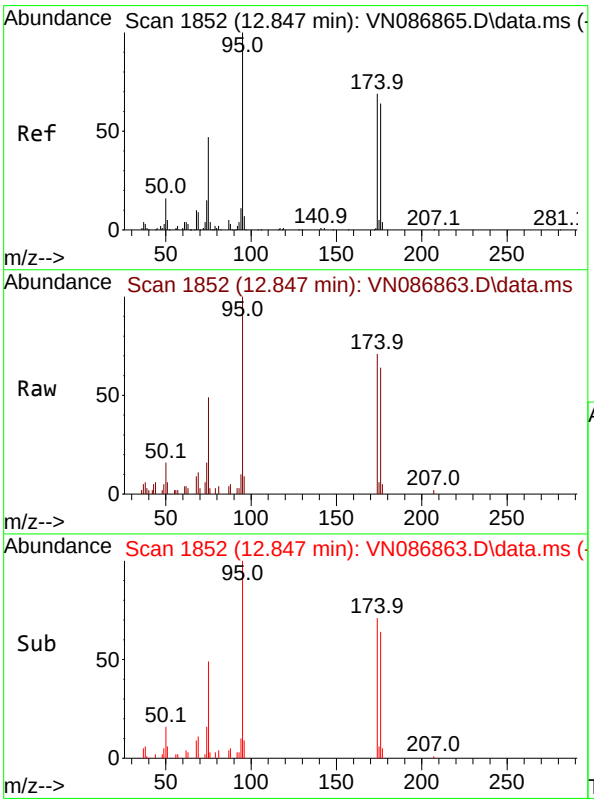
Ion	Ratio	Lower	Upper
107	100		
109	94.2	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

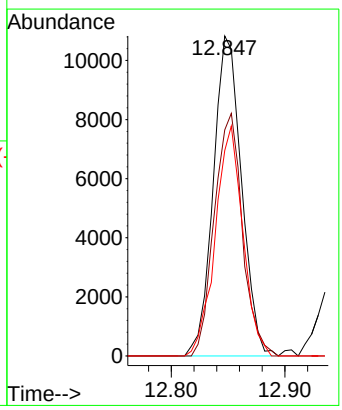
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

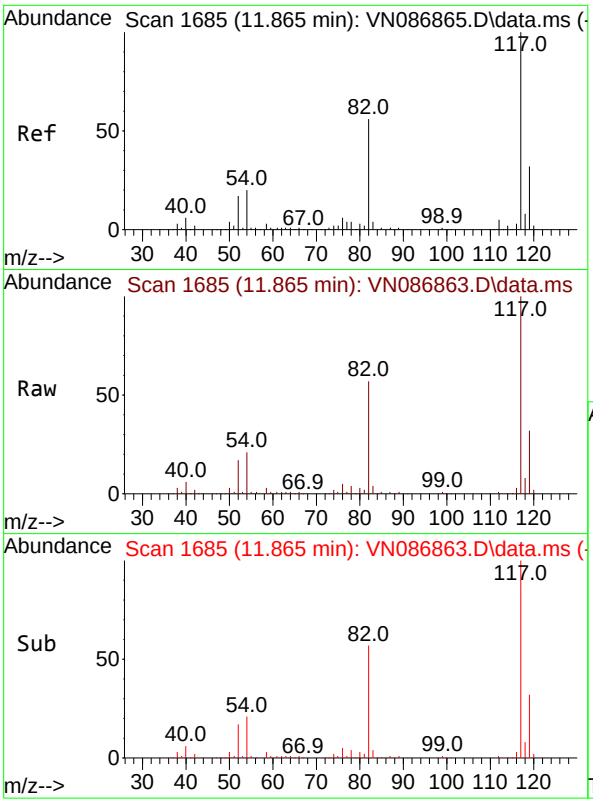


#62
4-Bromofluorobenzene
Concen: 5.059 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 95 Resp: 18697

Ion	Ratio	Lower	Upper
95	100		
174	75.5	0.0	141.8
176	70.2	0.0	132.6

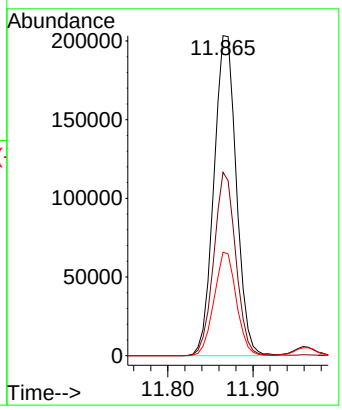




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:117 Resp: 37185

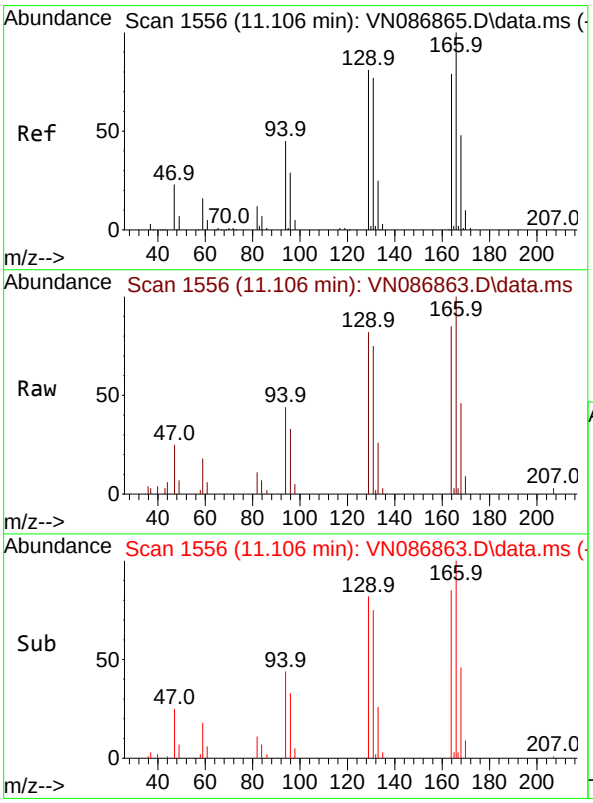
Ion	Ratio	Lower	Upper
117	100		
82	57.3	44.6	67.0
119	32.3	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

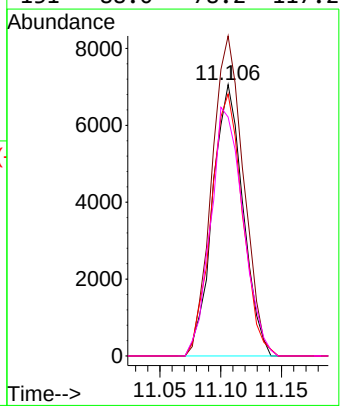
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

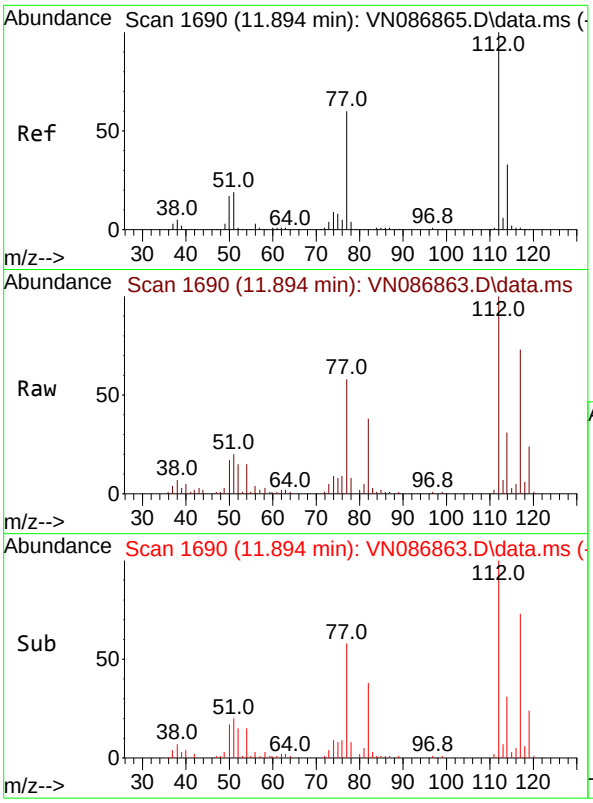


#64
Tetrachloroethene
Concen: 5.236 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:164 Resp: 12322

Ion	Ratio	Lower	Upper
164	100		
166	117.9	101.8	152.8
129	96.6	83.0	124.4
131	88.0	78.2	117.2





#65
Chlorobenzene
Concen: 5.145 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

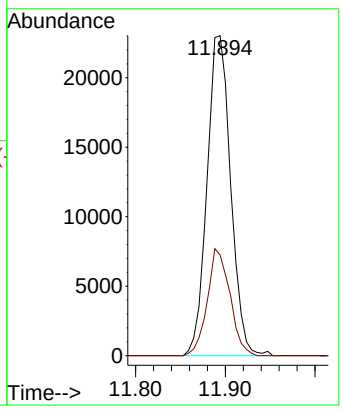
Tgt Ion:112 Resp: 4219

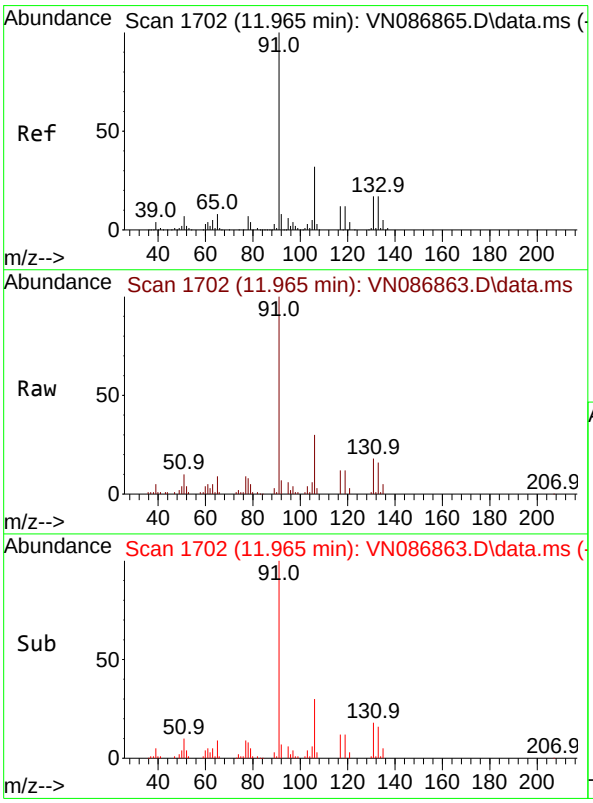
Ion	Ratio	Lower	Upper
112	100		
114	31.5	26.2	39.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

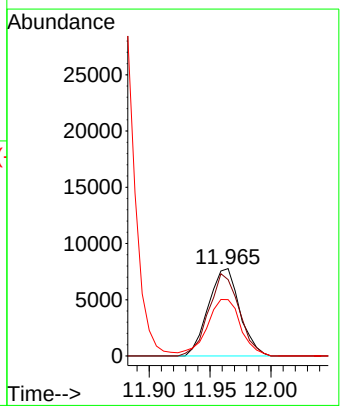


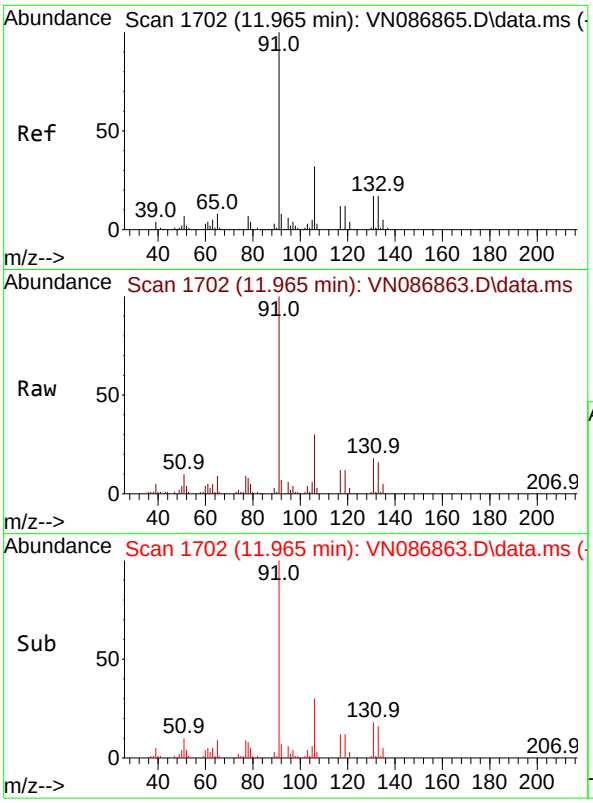


#66
1,1,1,2-Tetrachloroethane
Concen: 5.271 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:131 Resp: 13897

Ion	Ratio	Lower	Upper
131	100		
133	91.7	48.3	144.8
119	69.1	34.0	101.8

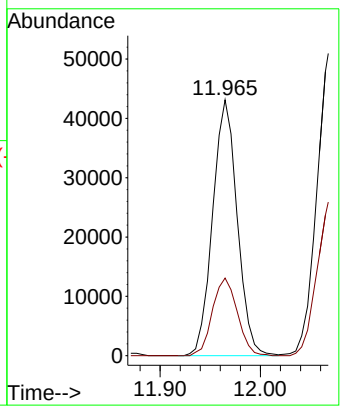




#67
Ethyl Benzene
Concen: 5.199 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 91 Resp: 7344

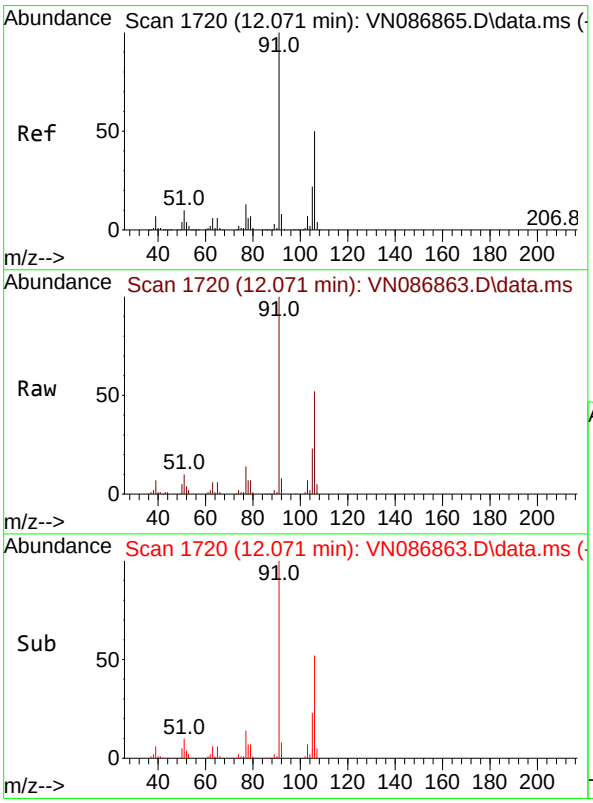
Ion	Ratio	Lower	Upper
91	100		
106	30.3	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

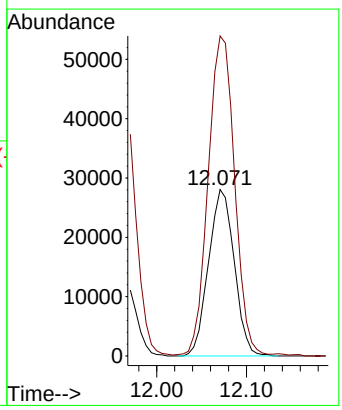
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

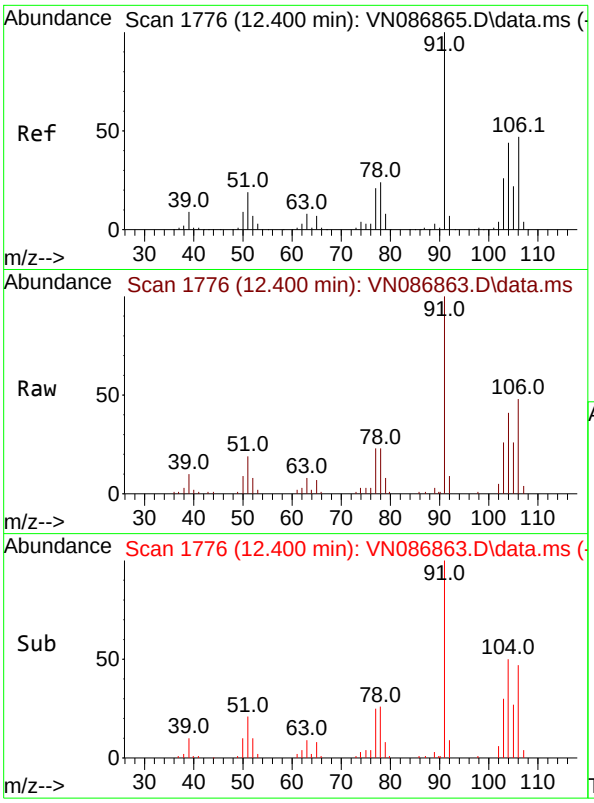


#68
m/p-Xylenes
Concen: 10.330 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:106 Resp: 55859

Ion	Ratio	Lower	Upper
106	100		
91	199.0	159.4	239.0





#69
o-Xylene
Concen: 5.021 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

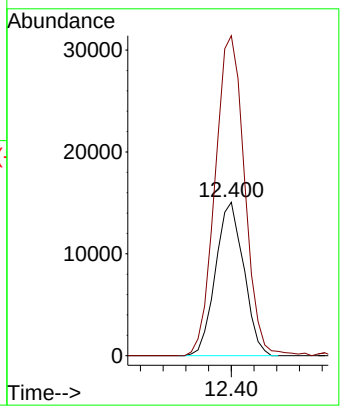
Tgt Ion:106 Resp: 2600

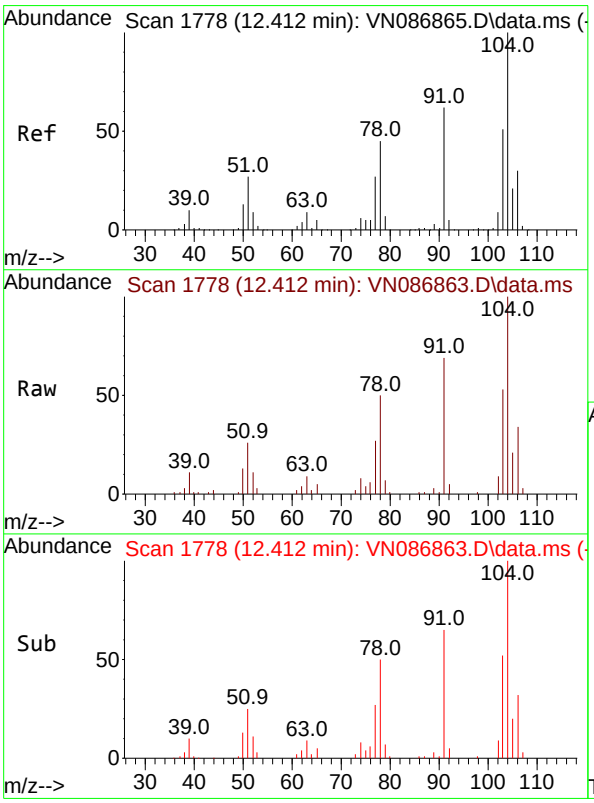
Ion	Ratio	Lower	Upper
106	100		
91	218.1	106.1	318.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

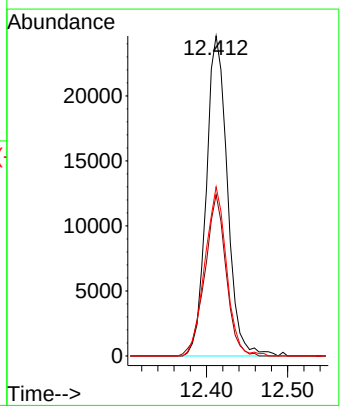


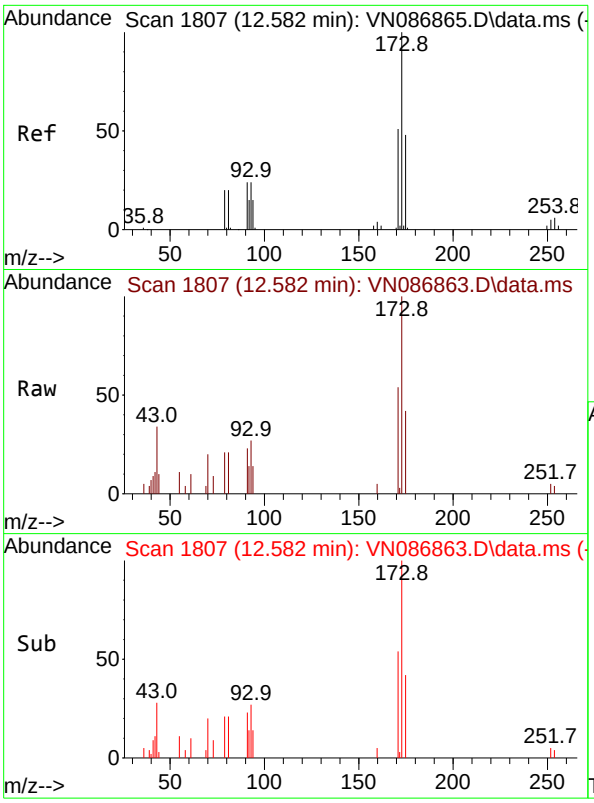


#70
Styrene
Concen: 5.008 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:104 Resp: 44380

Ion	Ratio	Lower	Upper
104	100		
78	50.4	38.5	57.7
103	54.4	43.1	64.7

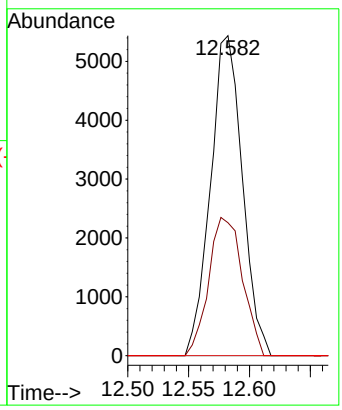




#71
Bromoform
Concen: 5.063 ug/l
RT: 12.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:173 Resp: 989

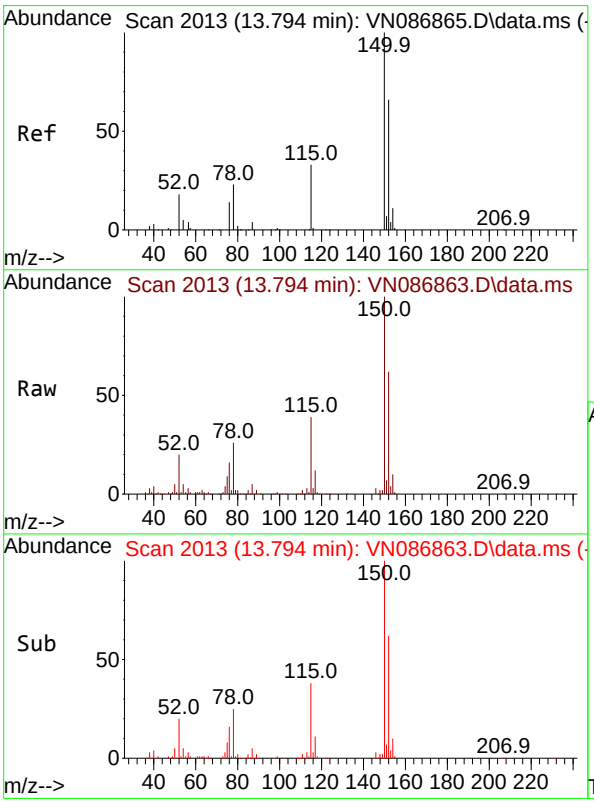
Ion	Ratio	Lower	Upper
173	100		
175	45.8	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

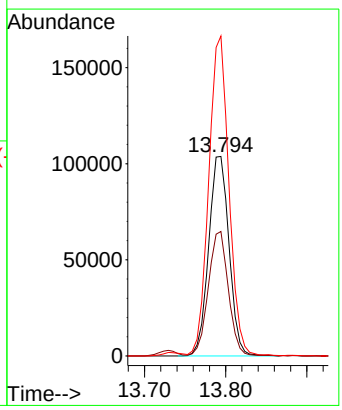
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

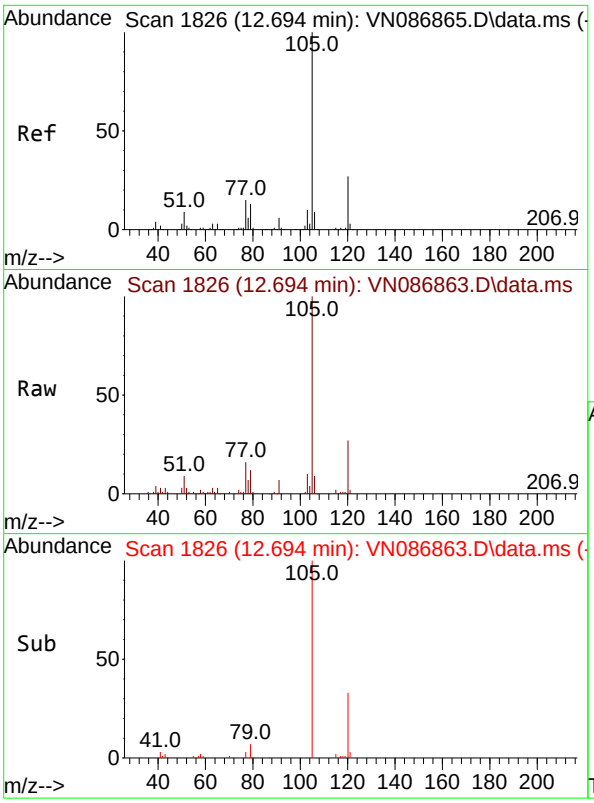


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:152 Resp: 181065

Ion	Ratio	Lower	Upper
152	100		
115	61.2	30.1	90.5
150	157.8	0.0	345.0

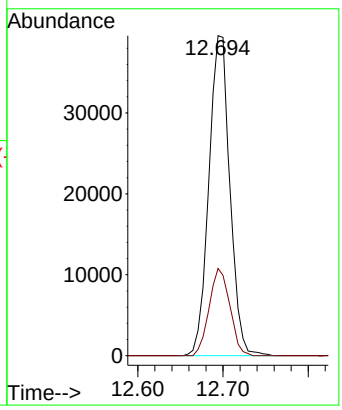




#73
Isopropylbenzene
Concen: 5.146 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:105 Resp: 6787

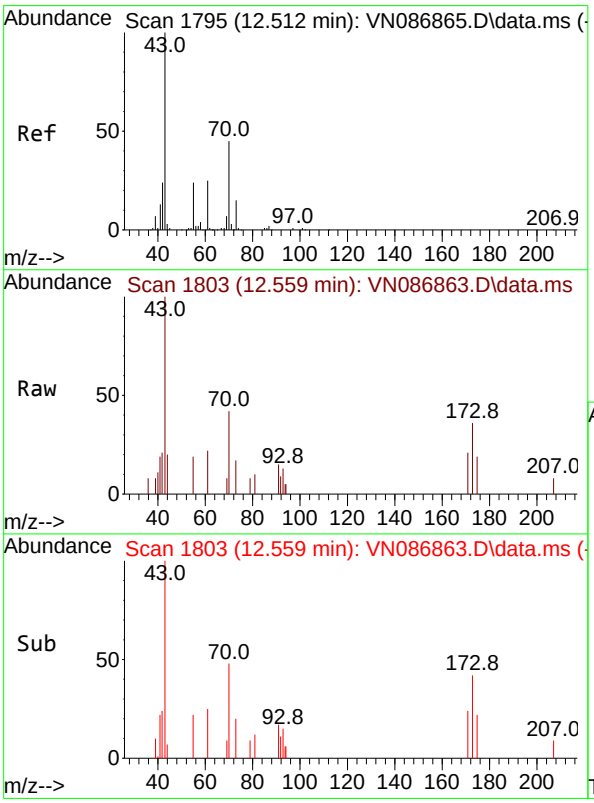
Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

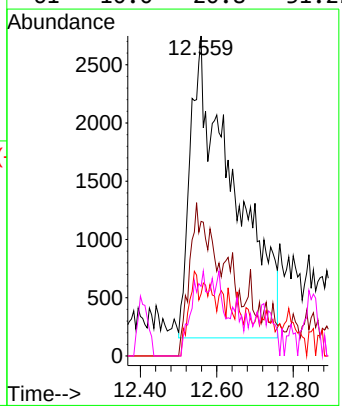
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

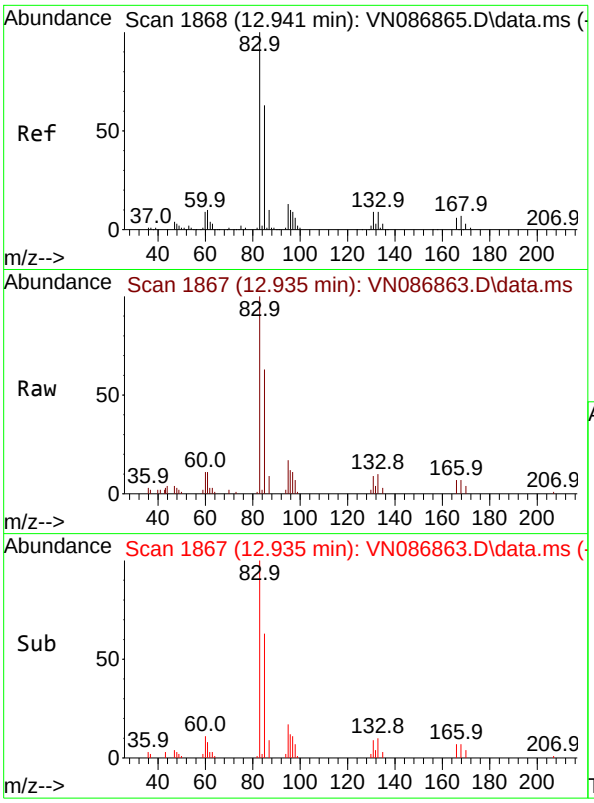


#74
N-amyl acetate
Concen: 4.590 ug/l m
RT: 12.559 min Scan# 1803
Delta R.T. 0.047 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 20096

Ion	Ratio	Lower	Upper
43	100		
70	0.0	37.6	56.4#
55	0.0	19.0	28.6#
61	10.0	20.8	31.2#

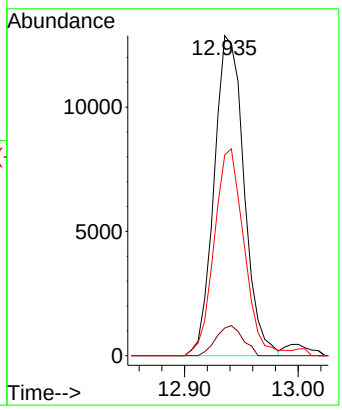




#75
1,1,2,2-Tetrachloroethane
Concen: 5.262 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 83 Resp: 2351

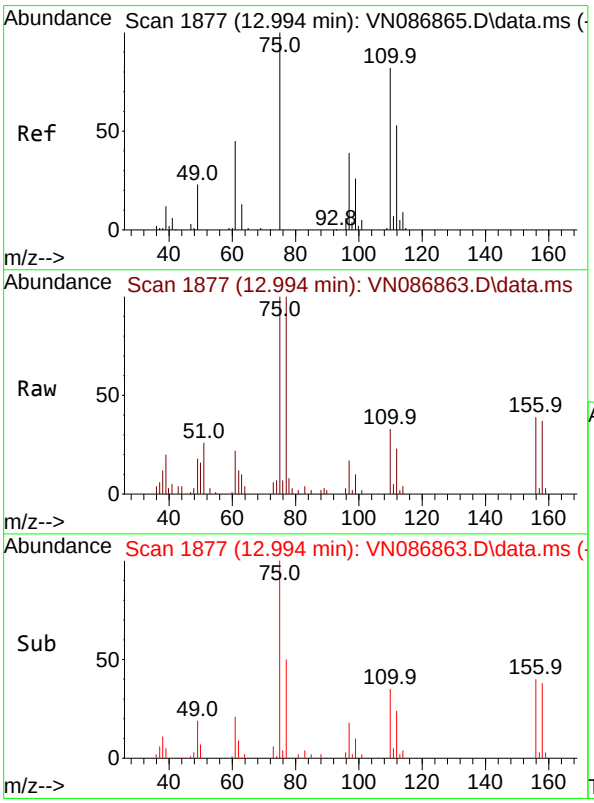
Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.9	14.7
85	65.1	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

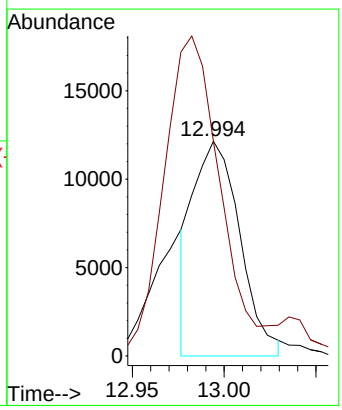
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

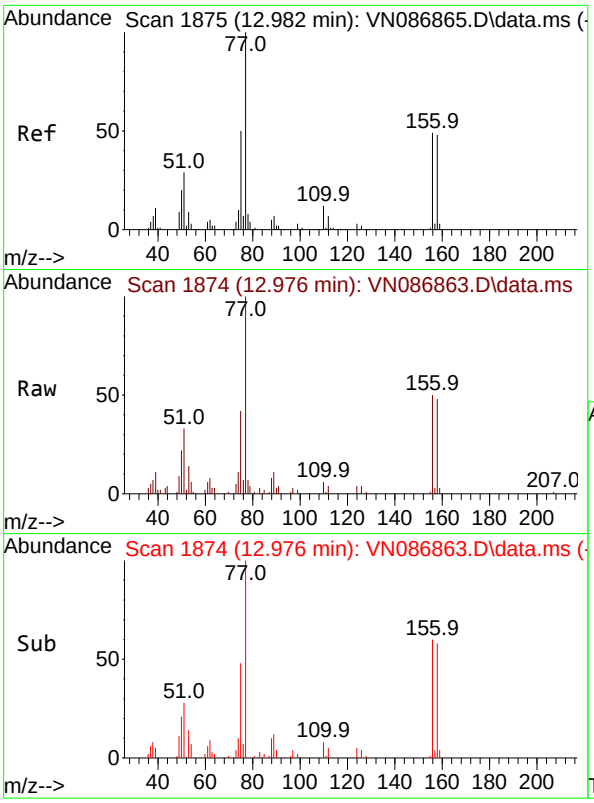


#76
1,2,3-Trichloropropane
Concen: 4.986 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 75 Resp: 21527

Ion	Ratio	Lower	Upper
75	100		
77	179.7	79.3	237.9

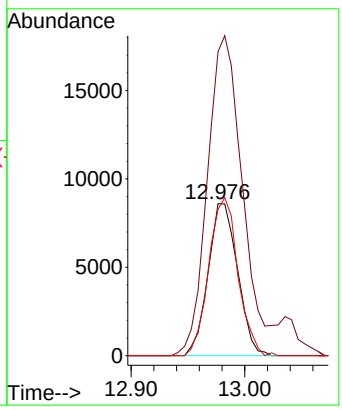




#77
Bromobenzene
Concen: 5.119 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:156 Resp: 1548

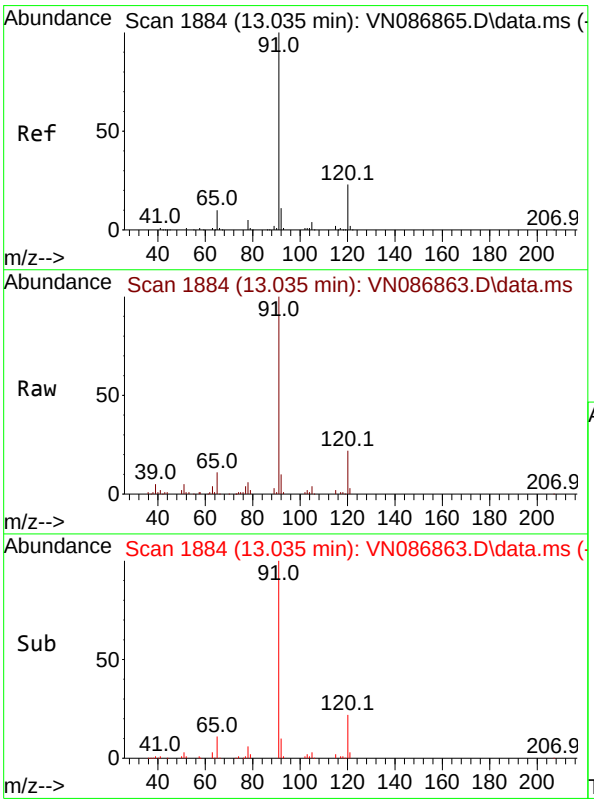
Ion	Ratio	Lower	Upper
156	100		
77	249.9	117.7	353.1
158	102.9	48.1	144.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

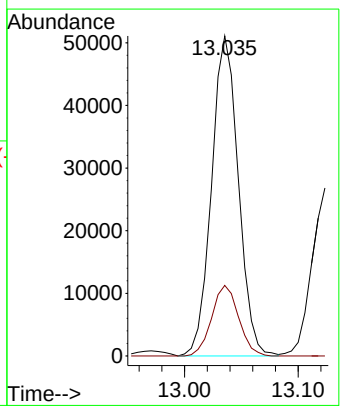
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

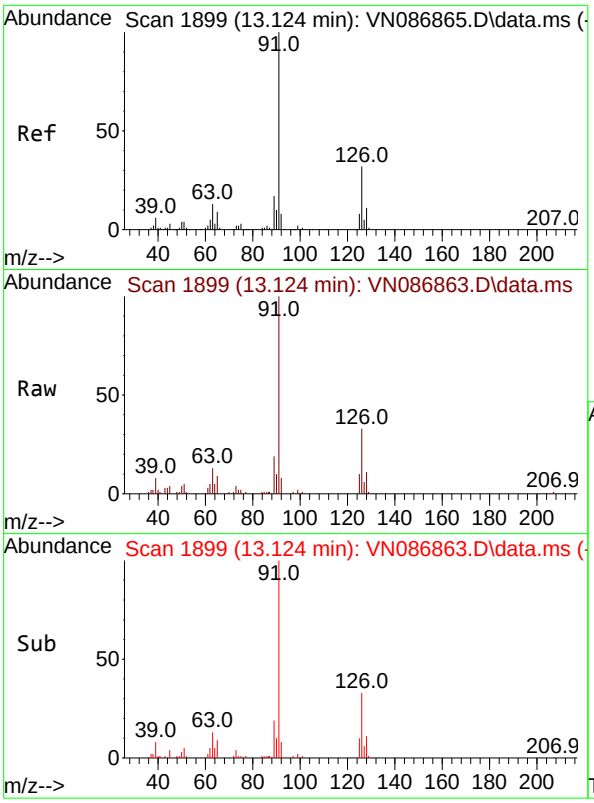


#78
n-propylbenzene
Concen: 5.226 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 91 Resp: 83781

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.4	34.2

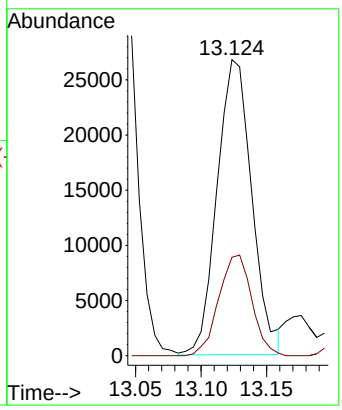




#79
2-Chlorotoluene
Concen: 5.128 ug/l
RT: 13.124 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 91 Resp: 4929

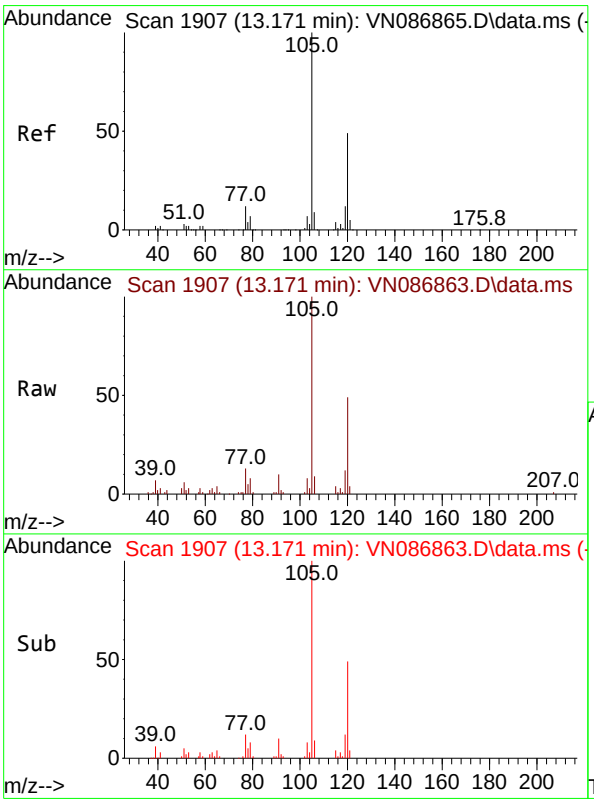
Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.2	48.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

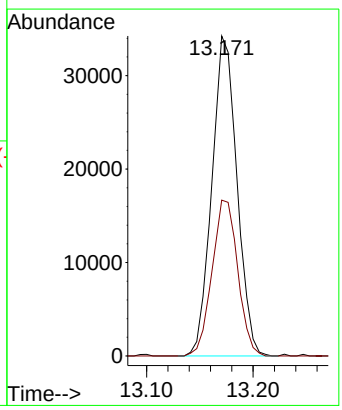
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

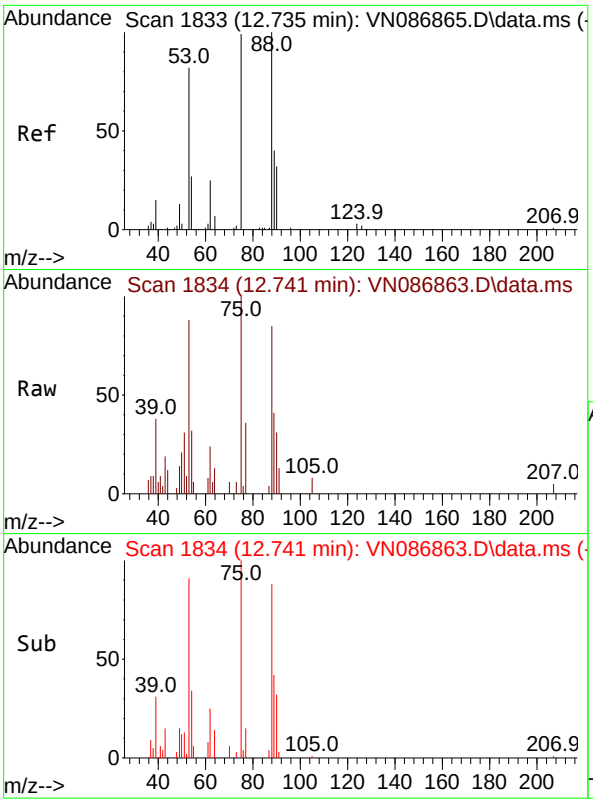


#80
1,3,5-Trimethylbenzene
Concen: 5.139 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:105 Resp: 55961

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.9	74.6

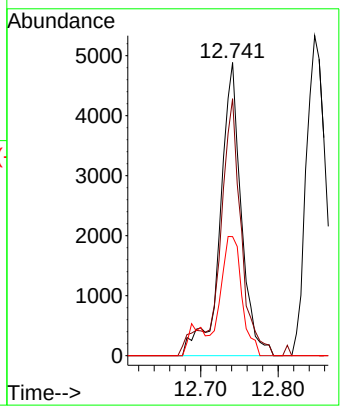




#81
trans-1,4-Dichloro-2-butene
Concen: 4.939 ug/l
RT: 12.741 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 75 Resp: 923

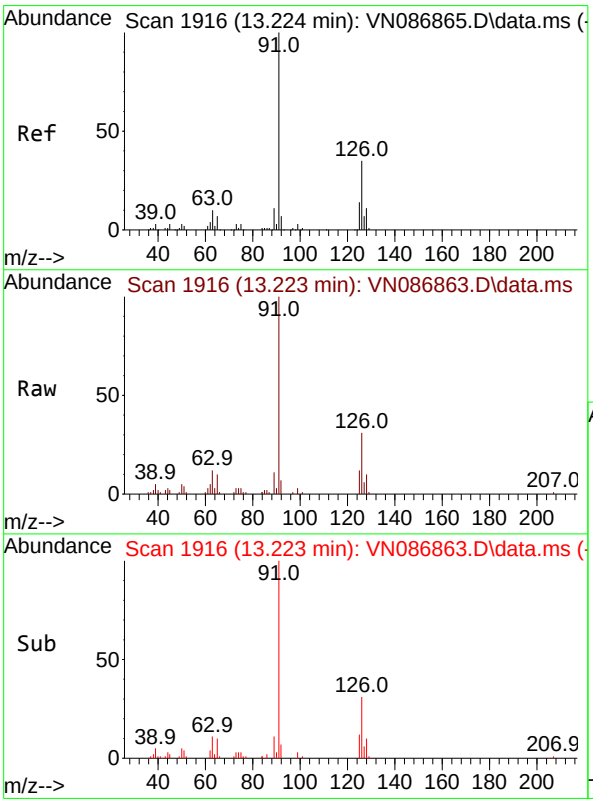
Ion	Ratio	Lower	Upper
75	100		
53	88.6	66.6	99.8
89	41.4	36.7	55.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

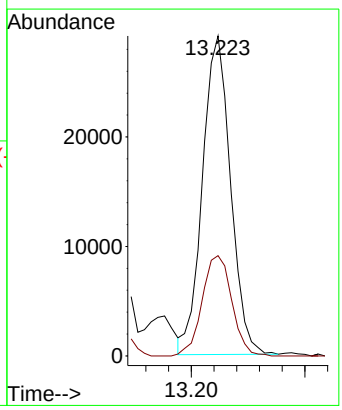
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

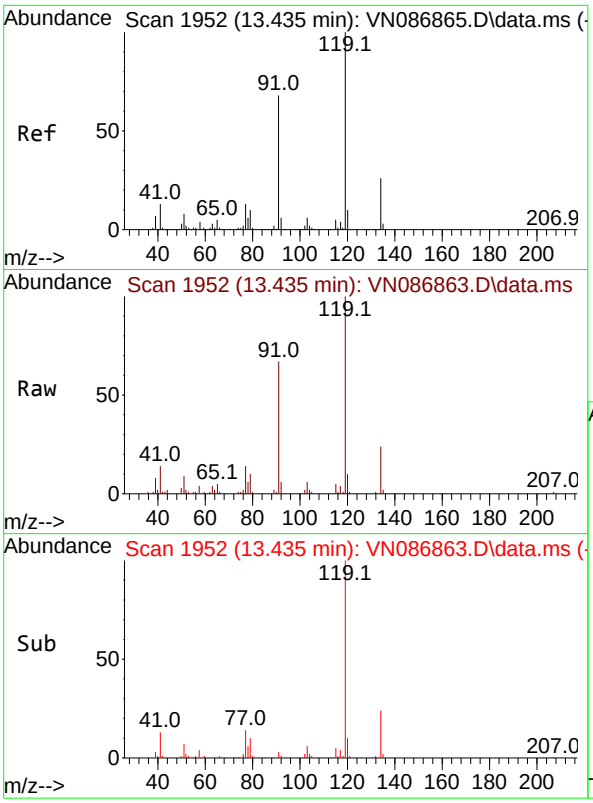


#82
4-Chlorotoluene
Concen: 5.132 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 91 Resp: 49924

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.7	50.1

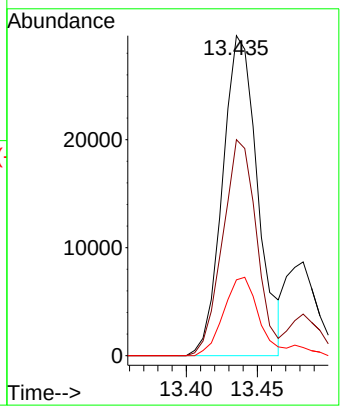




#83
tert-Butylbenzene
Concen: 5.103 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:119 Resp: 5087

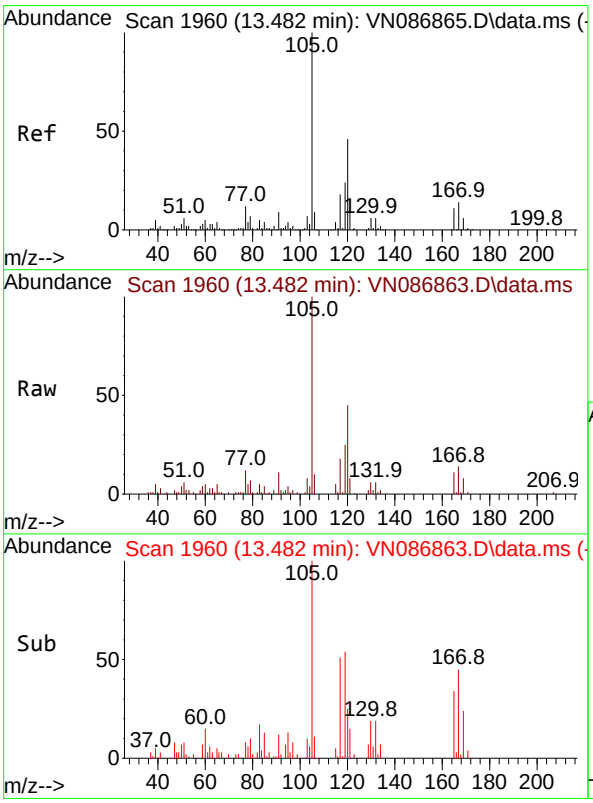
Ion	Ratio	Lower	Upper
119	100		
91	65.3	32.1	96.5
134	24.5	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

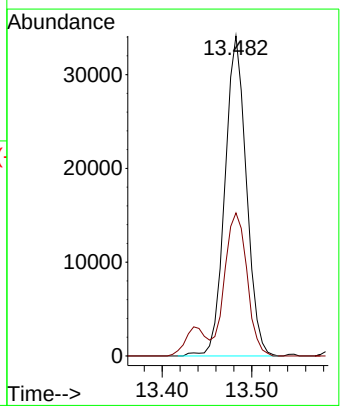
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

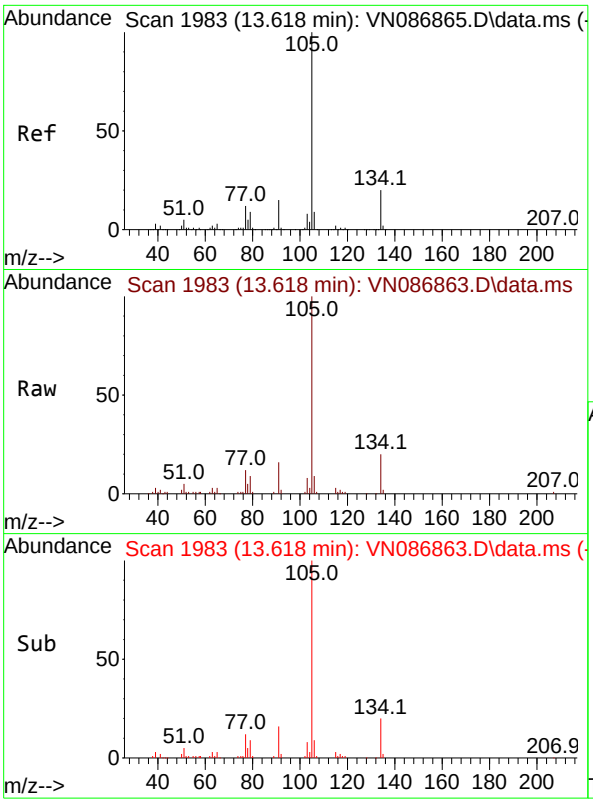


#84
1,2,4-Trimethylbenzene
Concen: 5.176 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:105 Resp: 56525

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.2	69.6

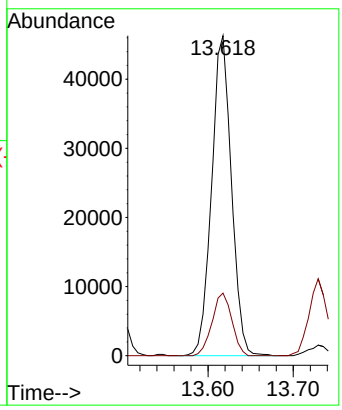




#85
sec-Butylbenzene
Concen: 5.161 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:105 Resp: 7471

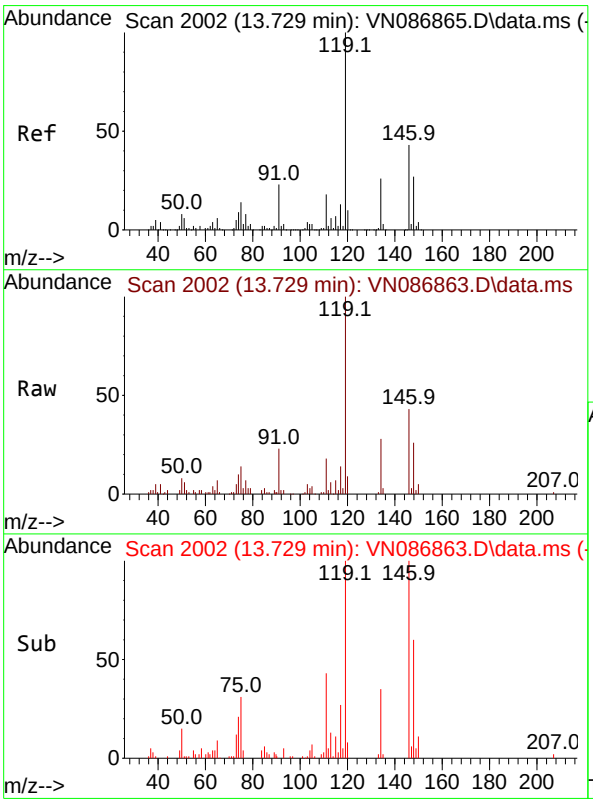
Ion	Ratio	Lower	Upper
105	100		
134	19.5	10.0	30.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

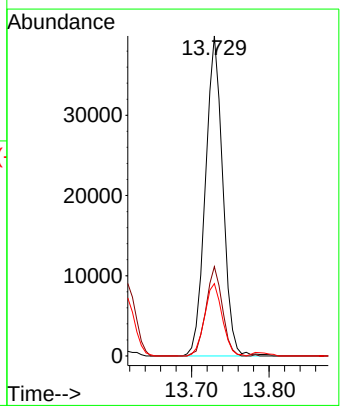
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

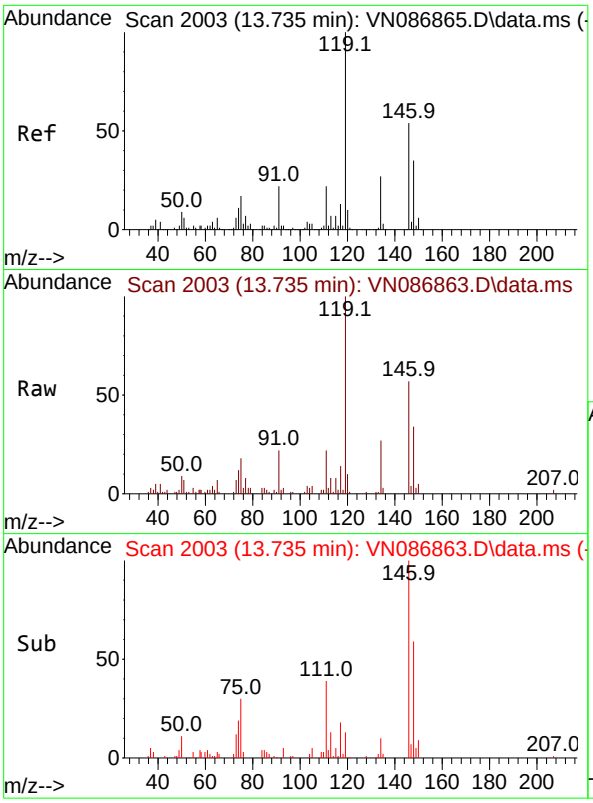


#86
p-Isopropyltoluene
Concen: 5.182 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:119 Resp: 62016

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.5	40.4
91	22.9	11.5	34.4

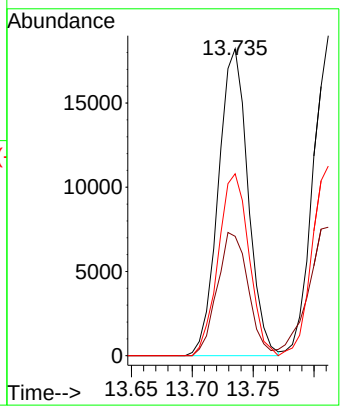




#87
1,3-Dichlorobenzene
Concen: 5.200 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:146 Resp: 3094

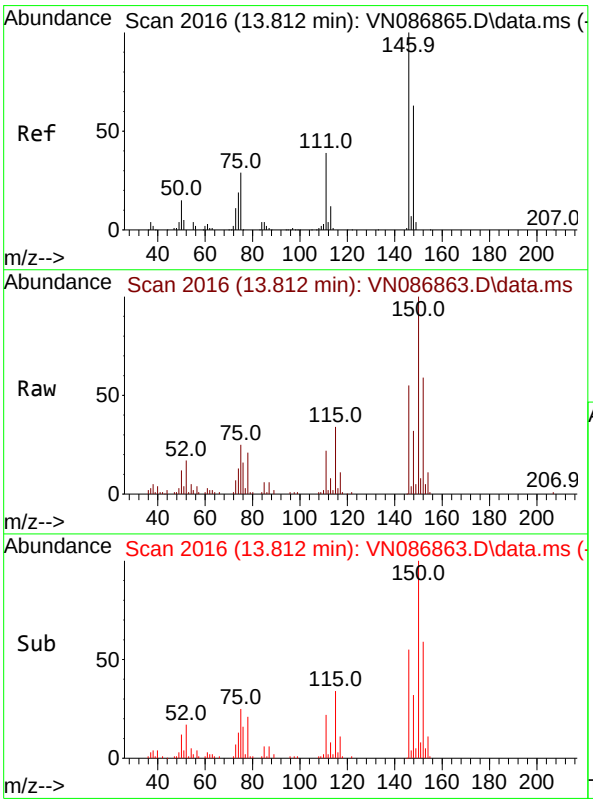
Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.9	62.8
148	61.1	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

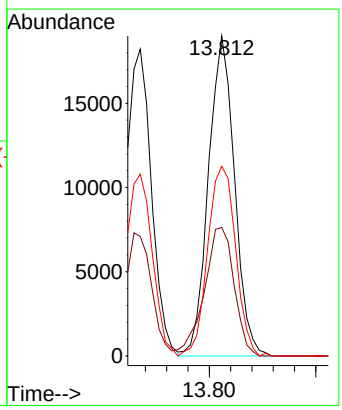
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

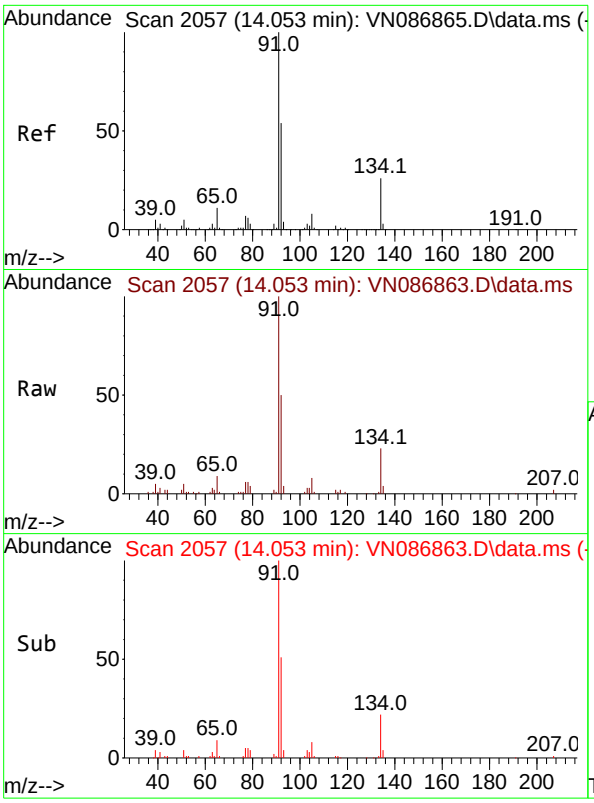


#88
1,4-Dichlorobenzene
Concen: 5.330 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:146 Resp: 32342

Ion	Ratio	Lower	Upper
146	100		
111	46.1	19.9	59.7
148	63.3	31.8	95.4

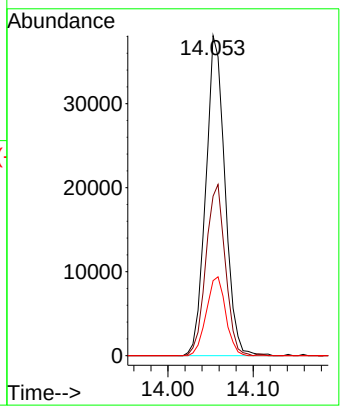




#89
n-Butylbenzene
Concen: 5.142 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 91 Resp: 5960

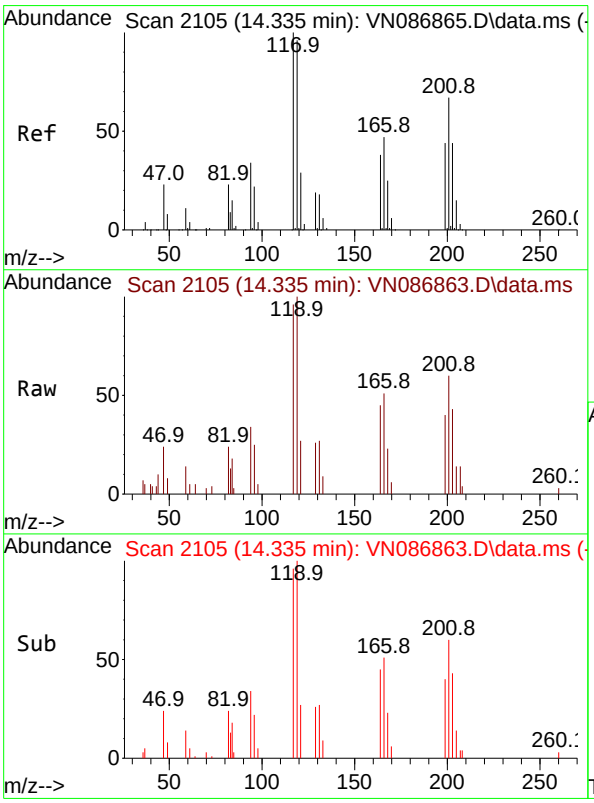
Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.5	82.4
134	24.9	13.0	39.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

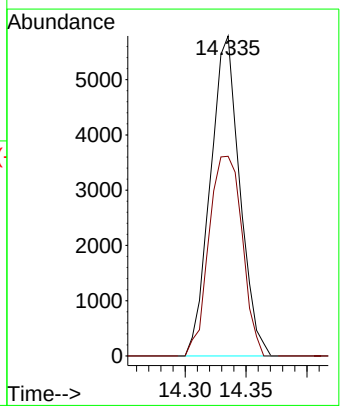
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

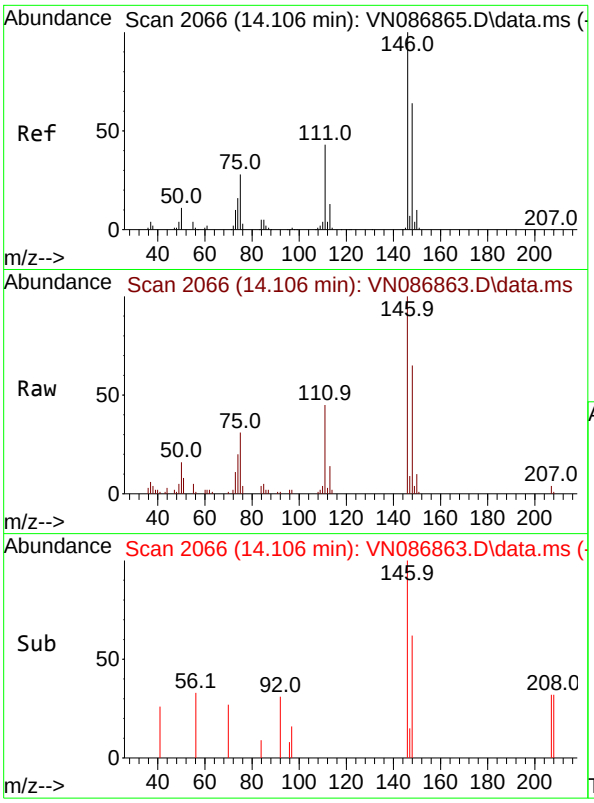


#90
Hexachloroethane
Concen: 4.794 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:117 Resp: 9725

Ion	Ratio	Lower	Upper
117	100		
201	70.6	33.2	99.6

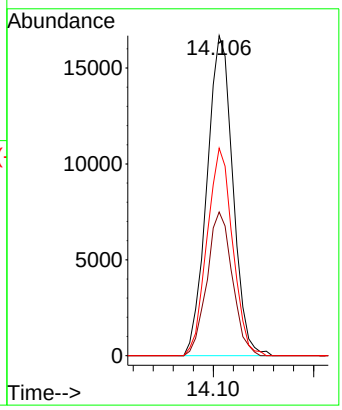




#91
1,2-Dichlorobenzene
Concen: 5.228 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:146 Resp: 2989

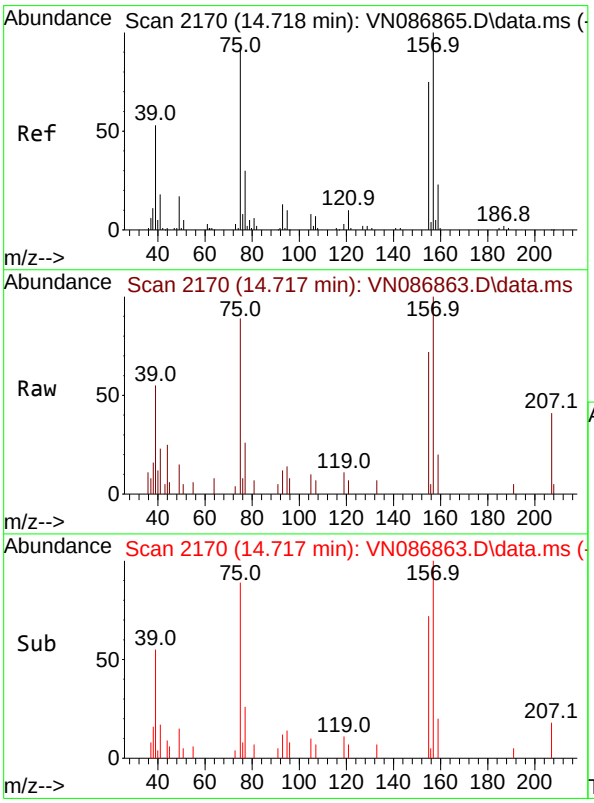
Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.6	64.6
148	64.3	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

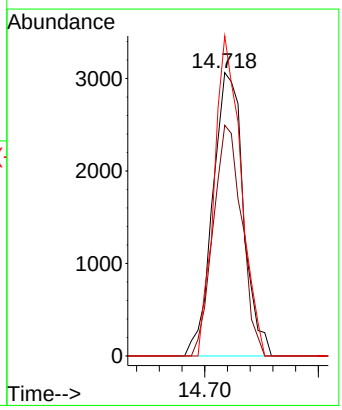
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

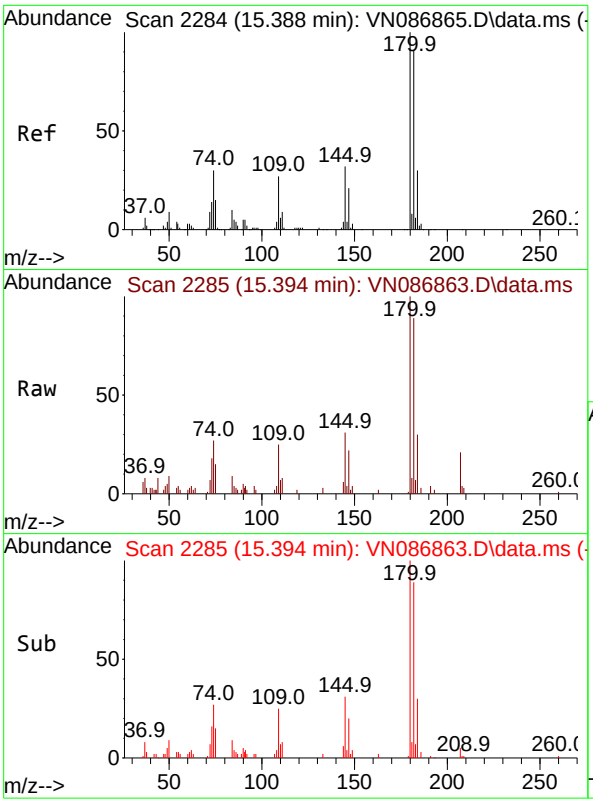


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.363 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 75 Resp: 5731

Ion	Ratio	Lower	Upper
75	100		
155	76.0	41.1	123.4
157	98.8	52.7	158.1

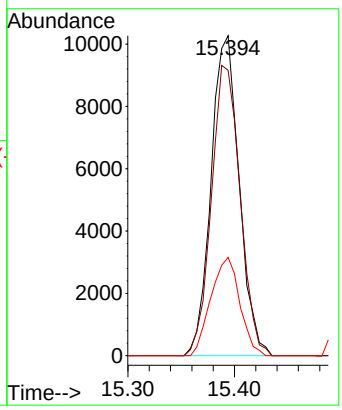




#93
1,2,4-Trichlorobenzene
Concen: 5.143 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:180 Resp: 1877

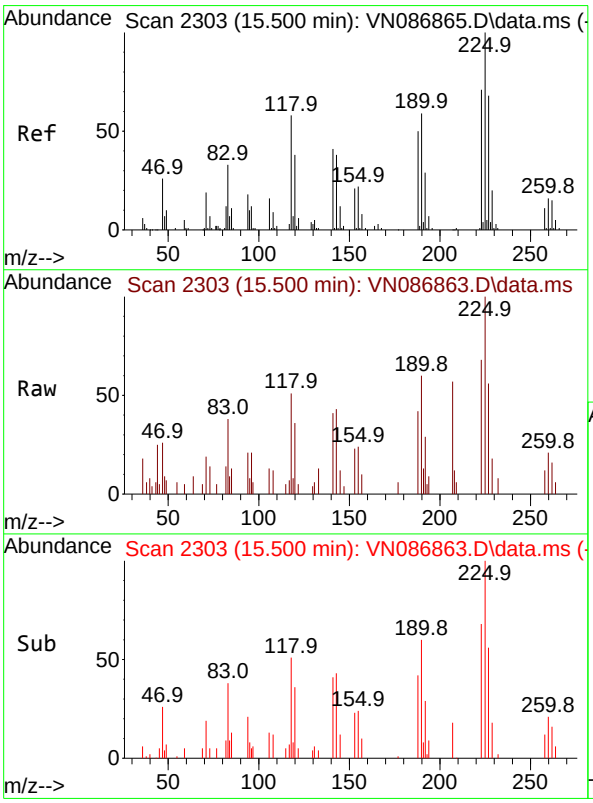
Ion	Ratio	Lower	Upper
180	100		
182	92.6	46.9	140.7
145	31.7	16.0	47.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

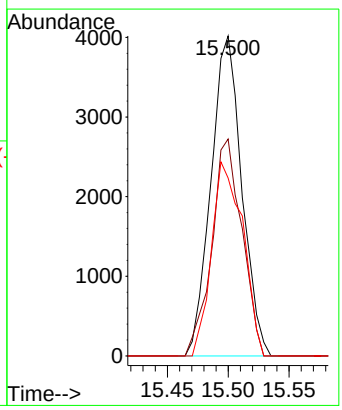
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

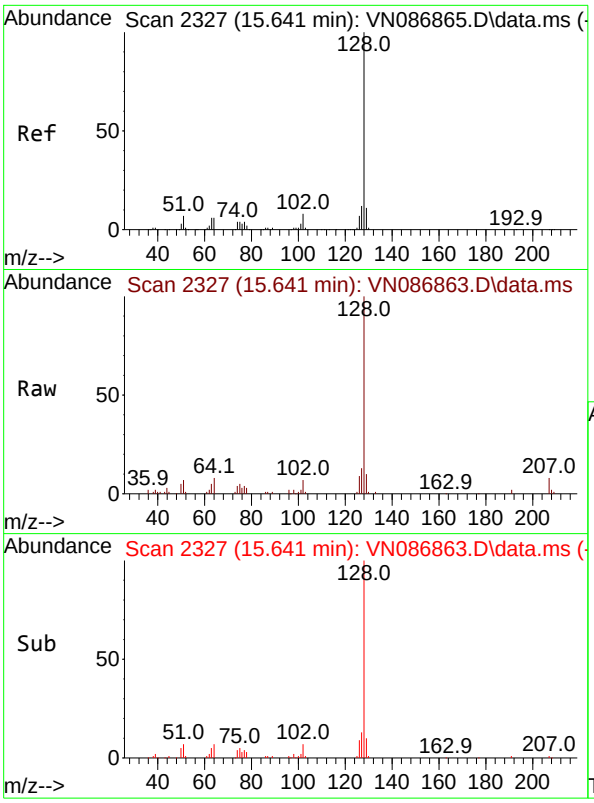


#94
Hexachlorobutadiene
Concen: 5.199 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:225 Resp: 7072

Ion	Ratio	Lower	Upper
225	100		
223	66.4	33.5	100.4
227	61.7	31.1	93.5

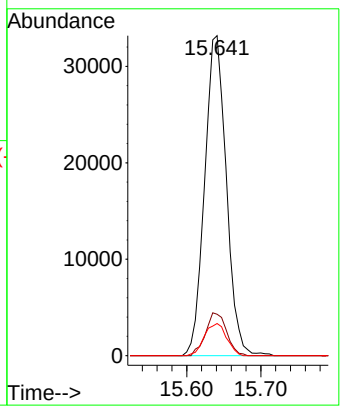




#95
Naphthalene
Concen: 4.965 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:128 Resp: 6748

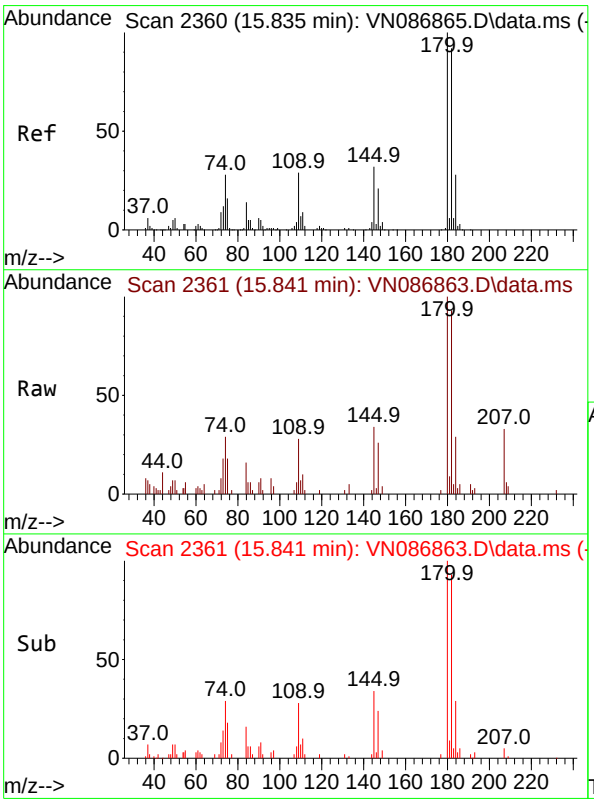
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	10.3	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

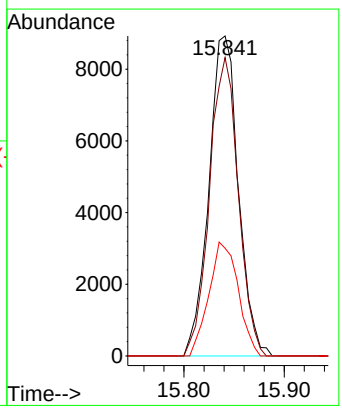
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 5.034 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:180 Resp: 18262

Ion	Ratio	Lower	Upper
180	100		
182	90.9	47.0	141.0
145	35.3	16.6	49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086864.D
Acq On : 06 Jun 2025 13:40
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:56:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	224006	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	418154	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	363172	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	181178	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	63390	21.136	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	42.280%#		
35) Dibromofluoromethane	8.177	113	51797	20.902	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	41.800%#		
50) Toluene-d8	10.571	98	201268	20.516	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	41.040%#		
62) 4-Bromofluorobenzene	12.853	95	74622	20.474	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	40.940%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.159	85	48254	21.605	ug/l	92
3) Chloromethane	2.401	50	57778	20.033	ug/l	93
4) Vinyl Chloride	2.559	62	61254	20.589	ug/l	99
5) Bromomethane	3.006	94	34022	20.435	ug/l	95
6) Chloroethane	3.159	64	39625	20.619	ug/l	99
7) Trichlorofluoromethane	3.524	101	80978	20.832	ug/l	94
8) Diethyl Ether	3.983	74	34288	20.245	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.395	101	50458	20.661	ug/l	98
10) Methyl Iodide	4.612	142	65360	20.646	ug/l	98
11) Tert butyl alcohol	5.547	59	87102	107.031	ug/l	99
12) 1,1-Dichloroethene	4.359	96	50485	20.249	ug/l	96
13) Acrolein	4.200	56	22866	88.767	ug/l	97
14) Allyl chloride	5.047	41	82924	20.055	ug/l	98
15) Acrylonitrile	5.742	53	199498	104.881	ug/l	99
16) Acetone	4.447	43	163979	103.099	ug/l	98
17) Carbon Disulfide	4.736	76	138195	20.038	ug/l	97
18) Methyl Acetate	5.047	43	96547	20.830	ug/l	99
19) Methyl tert-butyl Ether	5.818	73	183780	20.358	ug/l	98
20) Methylene Chloride	5.294	84	57611	19.348	ug/l	98
21) trans-1,2-Dichloroethene	5.806	96	55643	20.059	ug/l	94
22) Diisopropyl ether	6.689	45	182472	20.935	ug/l	98
23) Vinyl Acetate	6.624	43	768556	104.365	ug/l	99
24) 1,1-Dichloroethane	6.583	63	103578	20.650	ug/l	99
25) 2-Butanone	7.494	43	270477	104.621	ug/l	100
26) 2,2-Dichloropropane	7.506	77	69692	17.862	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	68292	20.585	ug/l	98
28) Bromochloromethane	7.824	49	55196	22.381	ug/l	99
29) Tetrahydrofuran	7.853	42	178571	106.031	ug/l	99
30) Chloroform	7.977	83	102615	20.485	ug/l	93
31) Cyclohexane	8.271	56	100026	20.563	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	86810	20.376	ug/l	98
36) 1,1-Dichloropropene	8.383	75	73252	19.838	ug/l	100
37) Ethyl Acetate	7.571	43	96467	20.522	ug/l	98
38) Carbon Tetrachloride	8.377	117	72628	20.034	ug/l	97
39) Methylcyclohexane	9.606	83	98425	19.455	ug/l	99
40) Benzene	8.612	78	241444	19.996	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086864.D
Acq On : 06 Jun 2025 13:40
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 01:56:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	53244	20.169	ug/l		98
42) 1,2-Dichloroethane	8.677	62	74238	20.270	ug/l		100
43) Isopropyl Acetate	8.694	43	151601	20.094	ug/l		99
44) Trichloroethene	9.359	130	57110	19.946	ug/l		96
45) 1,2-Dichloropropane	9.630	63	59293	20.184	ug/l		97
46) Dibromomethane	9.712	93	40290	20.648	ug/l		98
47) Bromodichloromethane	9.894	83	80353	20.015	ug/l		98
48) Methyl methacrylate	9.682	41	70457	20.290	ug/l		97
49) 1,4-Dioxane	9.706	88	28231	446.886	ug/l	#	98
51) 4-Methyl-2-Pentanone	10.447	43	481741	106.066	ug/l		99
52) Toluene	10.635	92	148000	20.056	ug/l		98
53) t-1,3-Dichloropropene	10.841	75	87683	19.532	ug/l		99
54) cis-1,3-Dichloropropene	10.318	75	94315	19.636	ug/l		99
55) 1,1,2-Trichloroethane	11.018	97	57195	20.143	ug/l		99
56) Ethyl methacrylate	10.882	69	94829	20.968	ug/l		98
57) 1,3-Dichloropropane	11.165	76	98205	19.938	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.165	63	278986	103.426	ug/l		99
59) 2-Hexanone	11.206	43	303686	103.803	ug/l		95
60) Dibromochloromethane	11.359	129	59961	20.268	ug/l		99
61) 1,2-Dibromoethane	11.471	107	59139	20.320	ug/l		97
64) Tetrachloroethene	11.106	164	45374	19.742	ug/l		96
65) Chlorobenzene	11.894	112	160803	20.076	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	52069	20.223	ug/l		99
67) Ethyl Benzene	11.965	91	277087	20.083	ug/l		98
68) m/p-Xylenes	12.071	106	215378	40.780	ug/l		100
69) o-Xylene	12.400	106	102050	20.175	ug/l		98
70) Styrene	12.412	104	178061	20.572	ug/l		99
71) Bromoform	12.576	173	40070	21.004	ug/l	#	99
73) Isopropylbenzene	12.694	105	264442	20.035	ug/l		100
74) N-amyl acetate	12.523	43	86003	19.633	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.941	83	92264	20.634	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	81846m	18.945	ug/l		
77) Bromobenzene	12.982	156	60877	20.111	ug/l		98
78) n-propylbenzene	13.035	91	322436	20.102	ug/l		100
79) 2-Chlorotoluene	13.123	91	193774	20.144	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	219937	20.183	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	37808	20.209	ug/l		92
82) 4-Chlorotoluene	13.223	91	193544	19.885	ug/l		99
83) tert-Butylbenzene	13.435	119	198303	19.880	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	221990	20.315	ug/l		100
85) sec-Butylbenzene	13.617	105	292563	20.196	ug/l		100
86) p-Isopropyltoluene	13.729	119	240682	20.099	ug/l		100
87) 1,3-Dichlorobenzene	13.735	146	120099	20.166	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	120102	19.780	ug/l		97
89) n-Butylbenzene	14.053	91	227536	19.617	ug/l		100
90) Hexachloroethane	14.335	117	41202	20.299	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	115645	20.212	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	21025	19.661	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	71826	19.659	ug/l		98
94) Hexachlorobutadiene	15.500	225	27887	20.486	ug/l		97
95) Naphthalene	15.641	128	272584	20.043	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	71929	19.815	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086864.D
Acq On : 06 Jun 2025 13:40
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 07 01:56:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

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

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

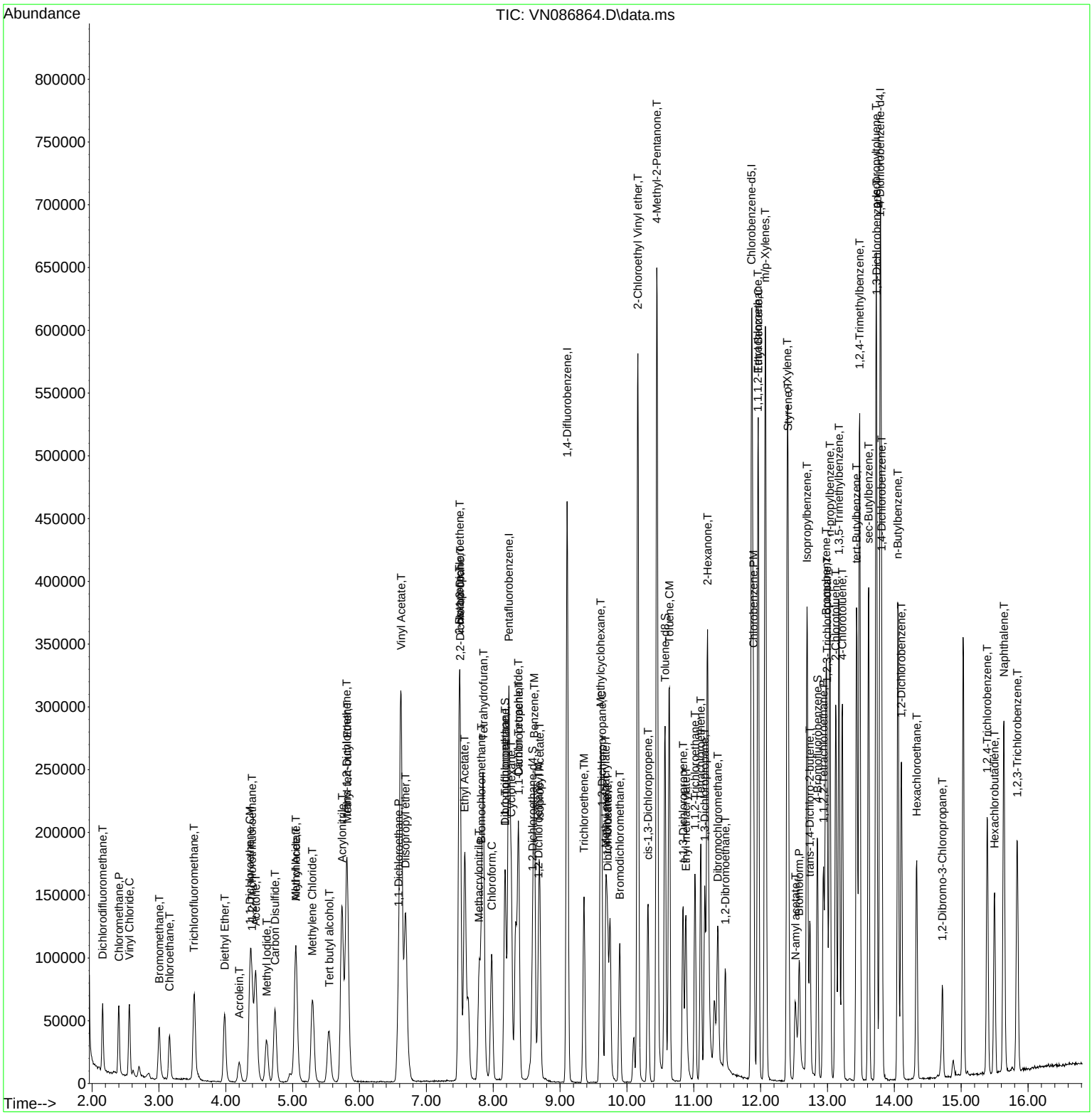
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086864.D
Acq On : 06 Jun 2025 13:40
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

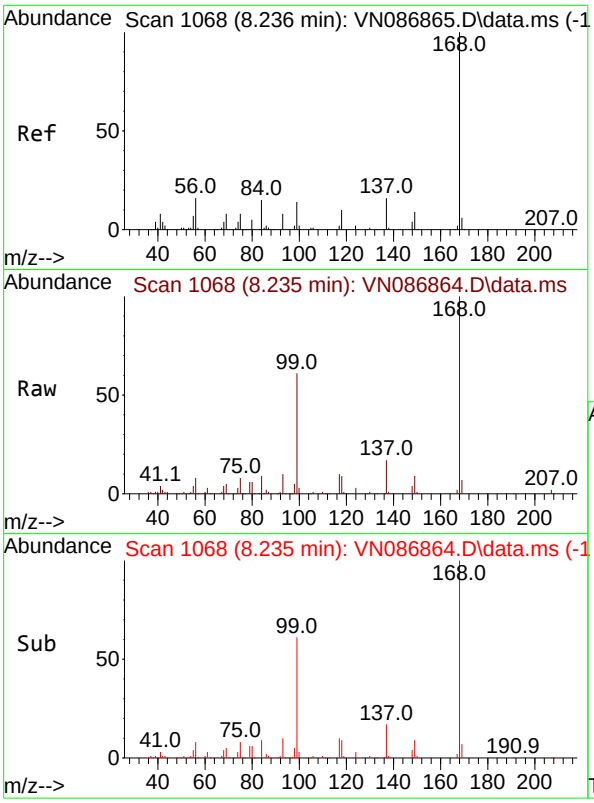
Quant Time: Jun 07 01:56:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

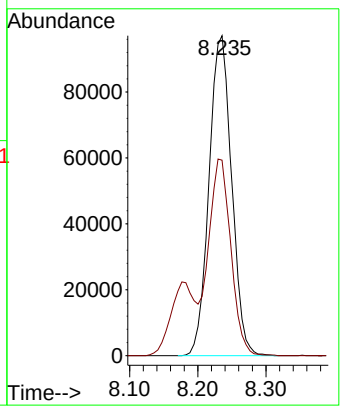




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:168 Resp: 22400

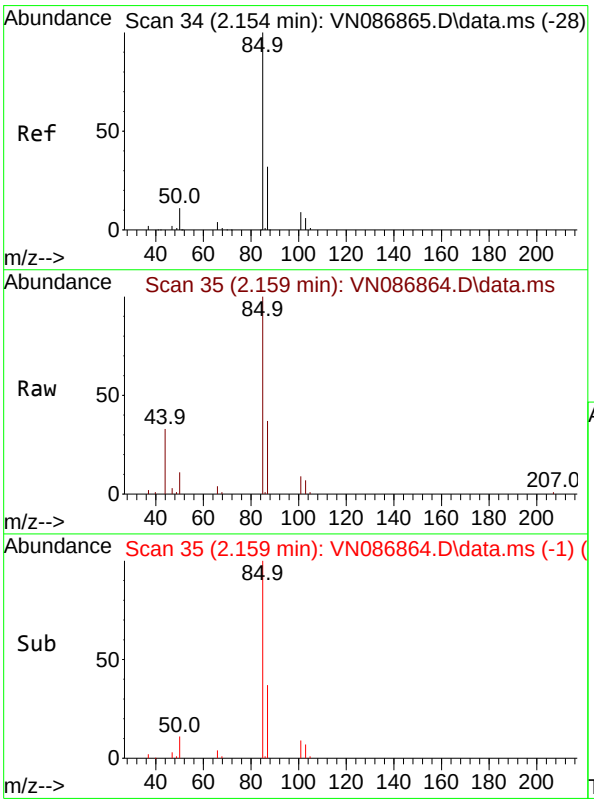
Ion	Ratio	Lower	Upper
168	100		
99	61.1	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

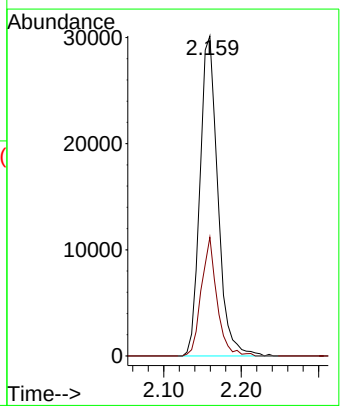
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

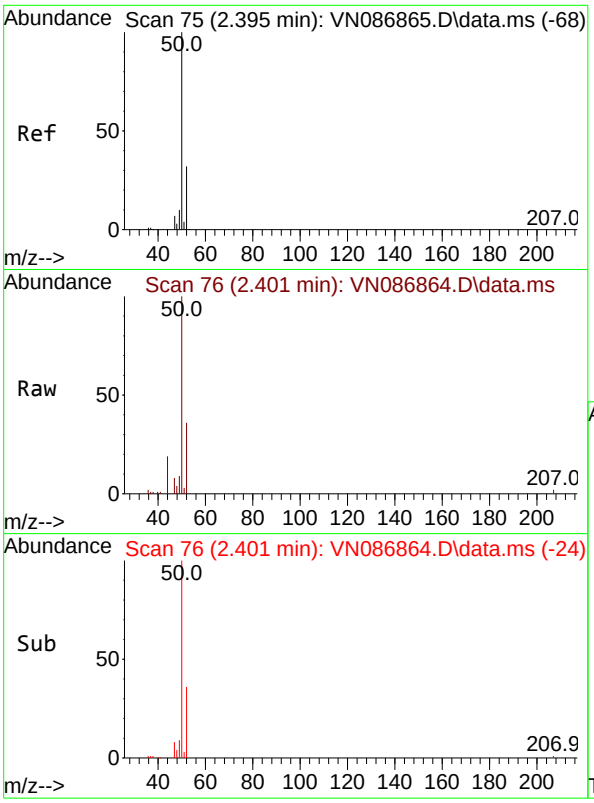


#2
Dichlorodifluoromethane
Concen: 21.605 ug/l
RT: 2.159 min Scan# 35
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 85 Resp: 48254

Ion	Ratio	Lower	Upper
85	100		
87	37.1	16.2	48.6

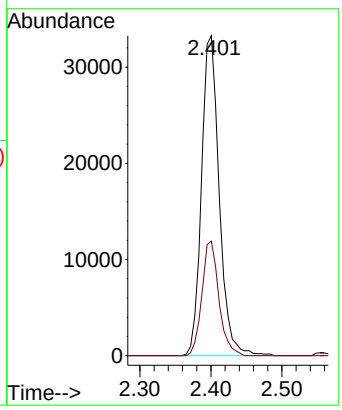




#3
Chloromethane
Concen: 20.033 ug/l
RT: 2.401 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 50 Resp: 5777

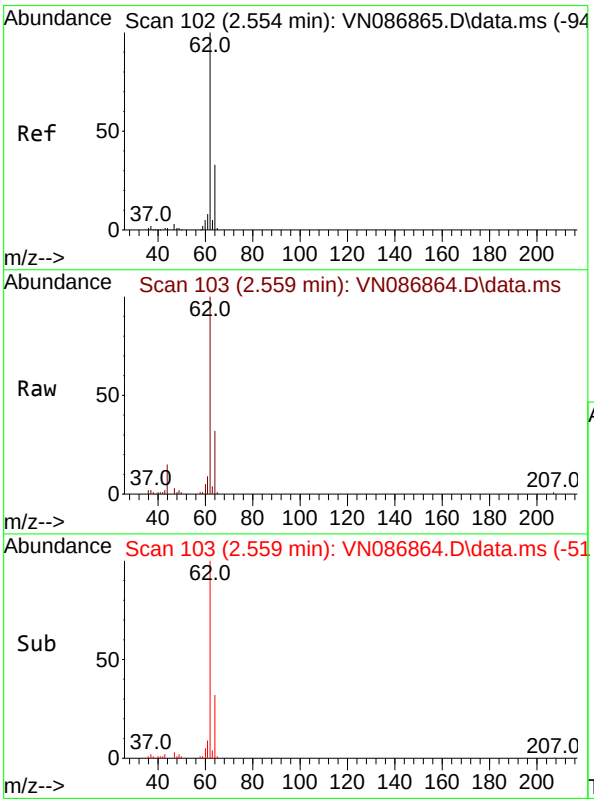
Ion	Ratio	Lower	Upper
50	100		
52	35.8	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

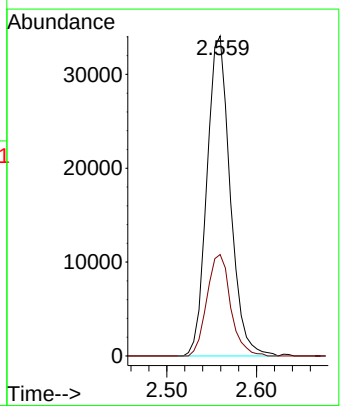
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

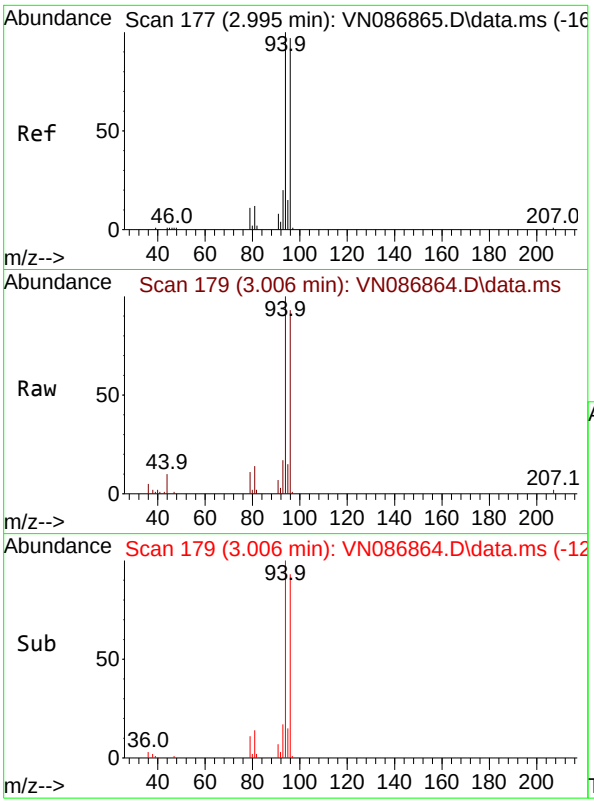


#4
Vinyl Chloride
Concen: 20.589 ug/l
RT: 2.559 min Scan# 103
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 62 Resp: 61254

Ion	Ratio	Lower	Upper
62	100		
64	31.7	26.0	39.0

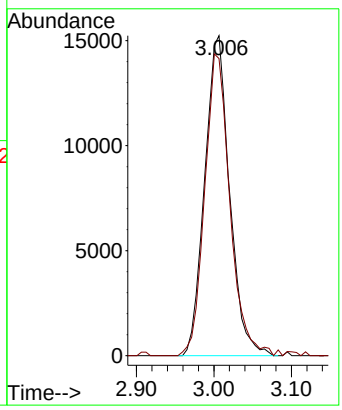




#5
Bromomethane
Concen: 20.435 ug/l
RT: 3.006 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 94 Resp: 3402

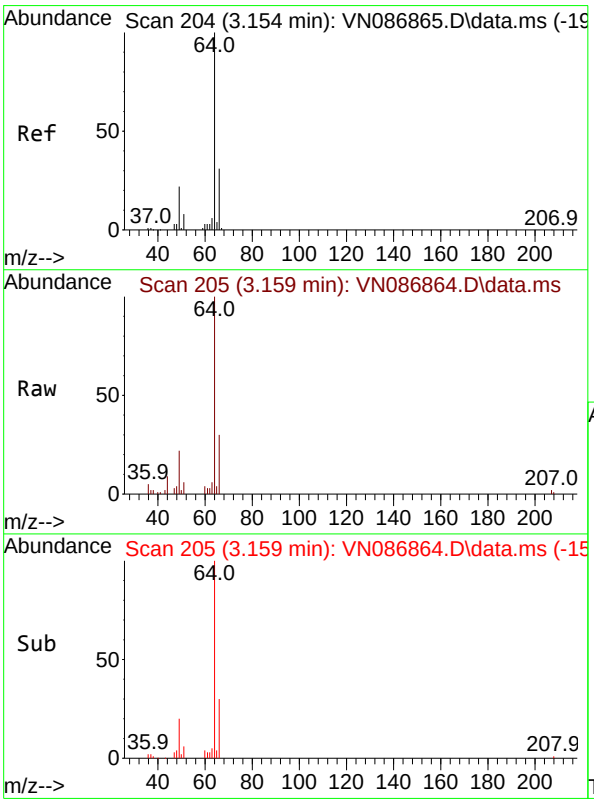
Ion	Ratio	Lower	Upper
94	100		
96	92.9	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

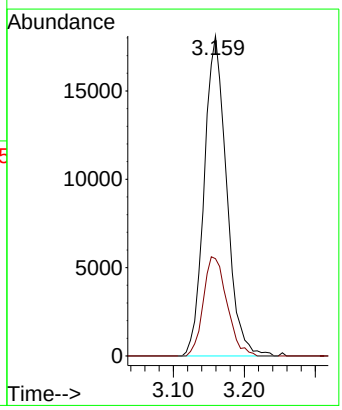
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

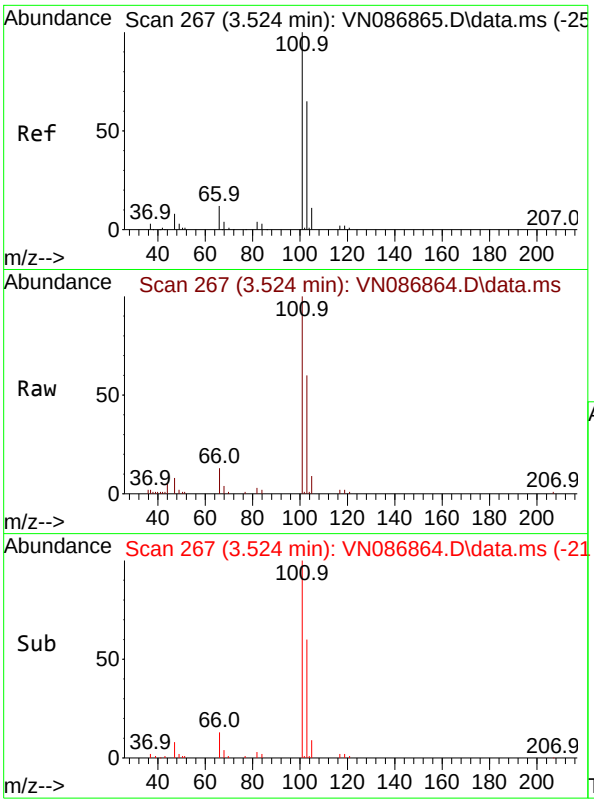


#6
Chloroethane
Concen: 20.619 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 64 Resp: 39625

Ion	Ratio	Lower	Upper
64	100		
66	30.4	24.6	36.8

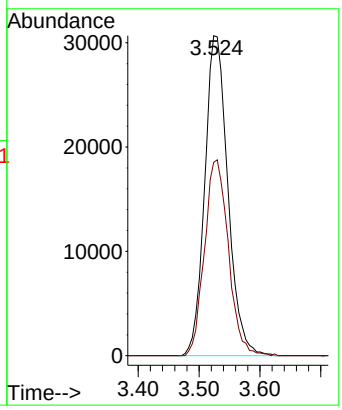




#7
Trichlorofluoromethane
Concen: 20.832 ug/l
RT: 3.524 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:101 Resp: 8097

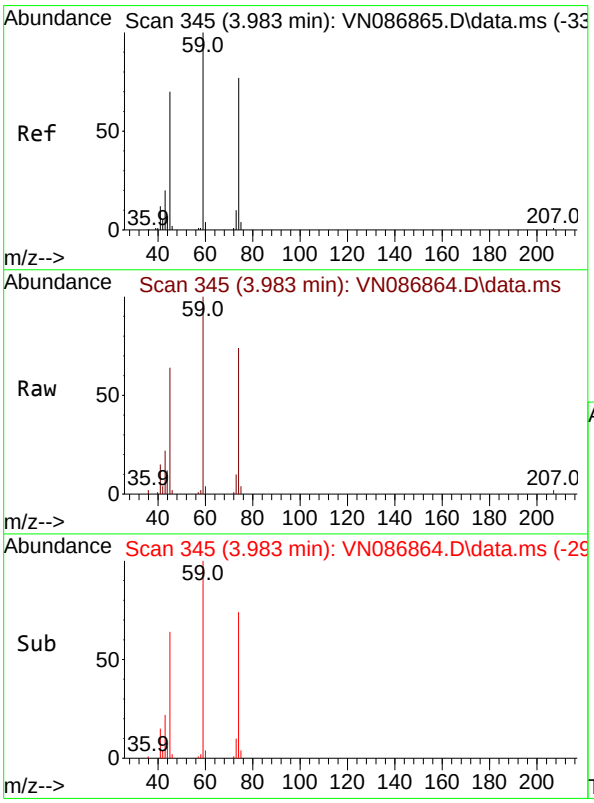
Ion	Ratio	Lower	Upper
101	100		
103	60.4	52.2	78.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

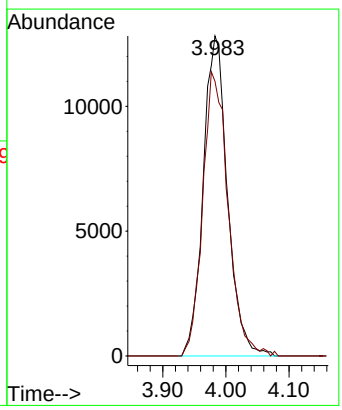
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

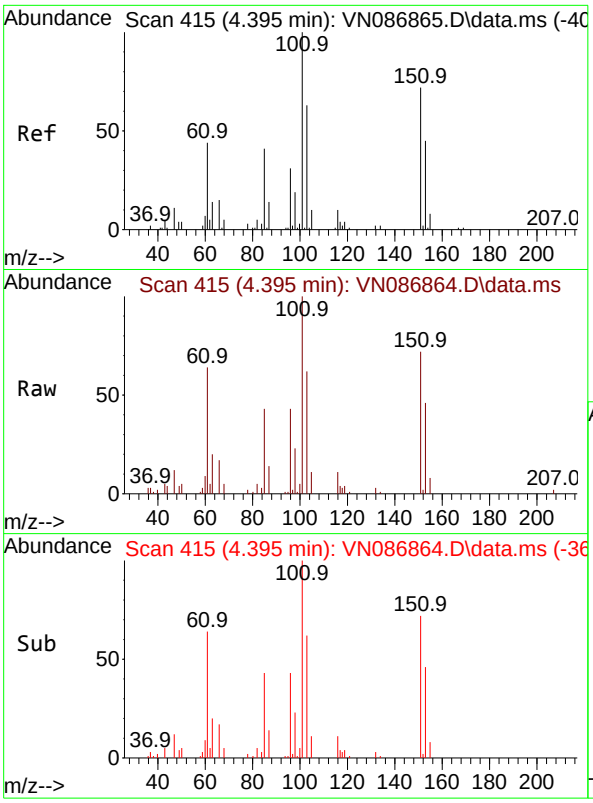


#8
Diethyl Ether
Concen: 20.245 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 74 Resp: 34288

Ion	Ratio	Lower	Upper
74	100		
45	92.9	45.5	136.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.661 ug/l
RT: 4.395 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

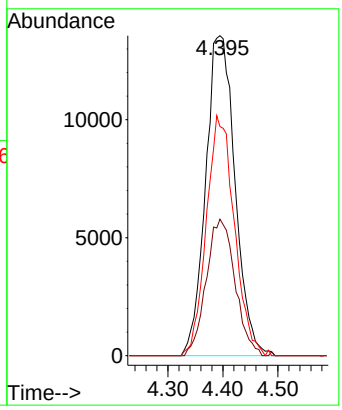
Tgt Ion:101 Resp: 5045

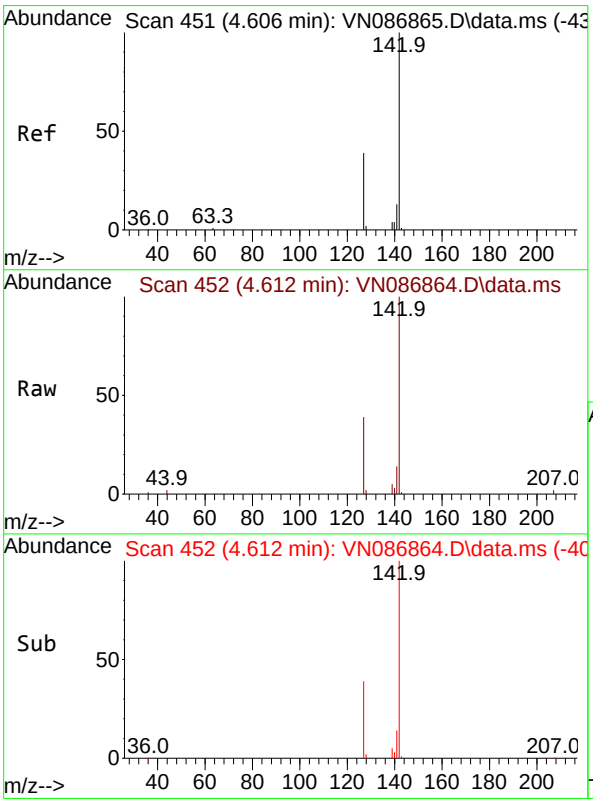
Ion	Ratio	Lower	Upper
101	100		
85	41.7	33.8	50.8
151	71.3	58.7	88.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

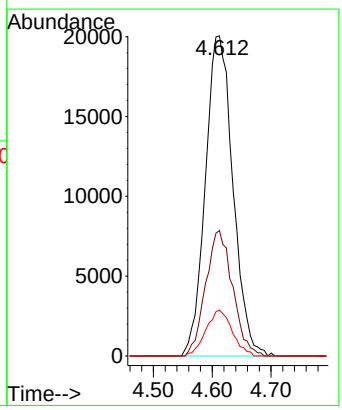


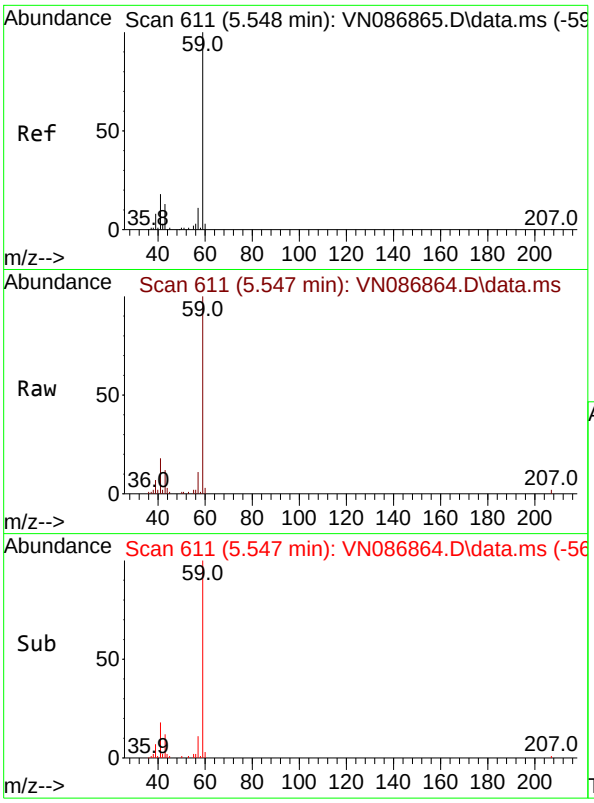


#10
Methyl Iodide
Concen: 20.646 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:142 Resp: 65360

Ion	Ratio	Lower	Upper
142	100		
127	39.2	30.9	46.3
141	14.3	10.4	15.6





#11
Tert butyl alcohol
Concen: 107.031 ug/l
RT: 5.547 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

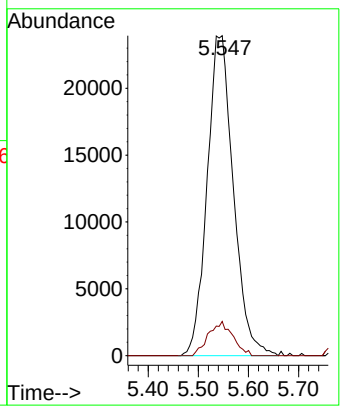
Tgt Ion: 59 Resp: 8710

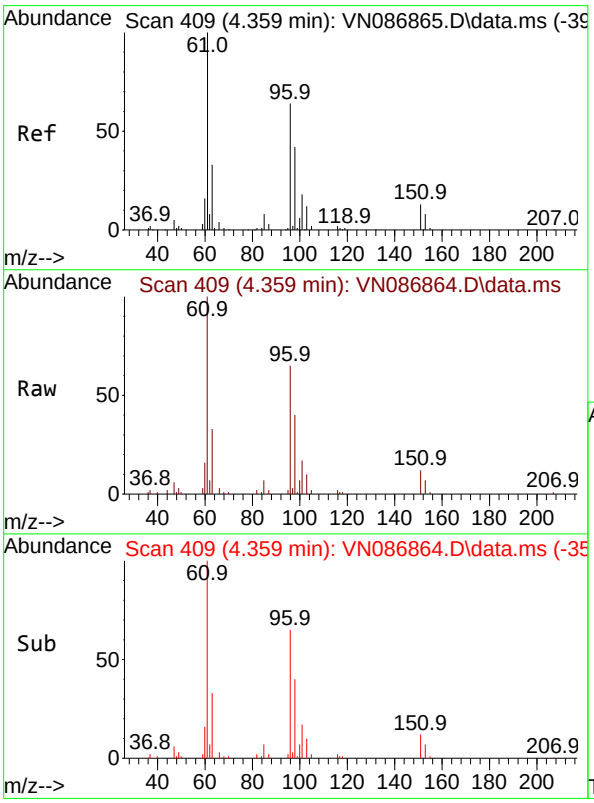
Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

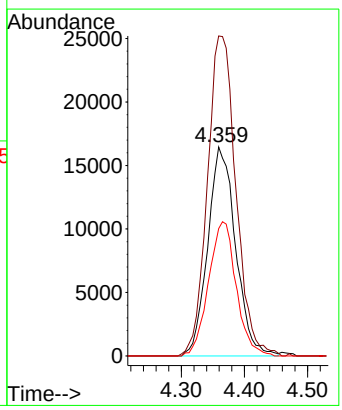


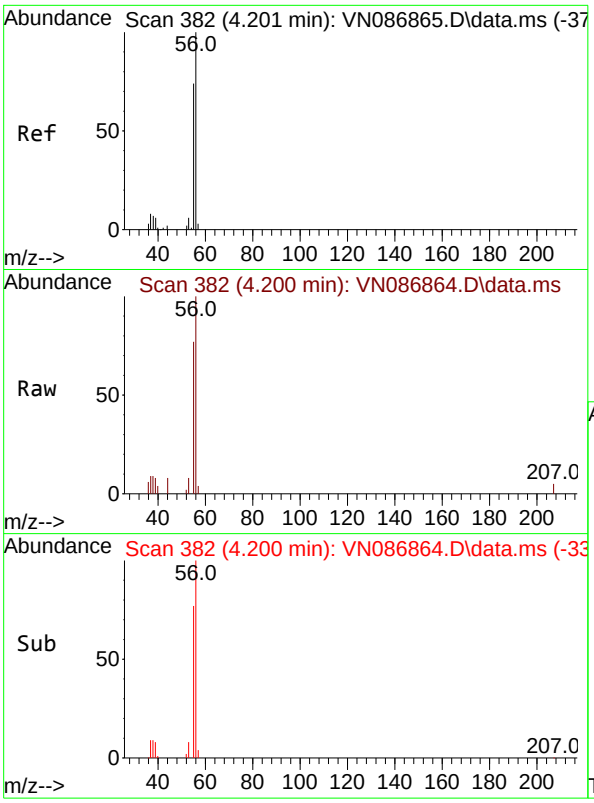


#12
1,1-Dichloroethene
Concen: 20.249 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 96 Resp: 50485

Ion	Ratio	Lower	Upper
96	100		
61	153.1	125.8	188.6
98	61.0	52.5	78.7

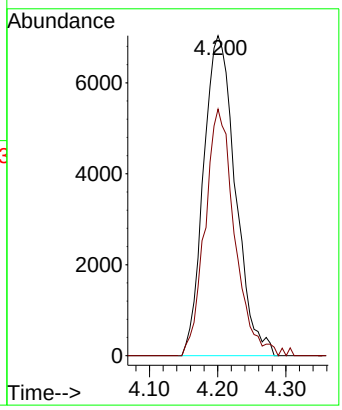




#13
Acrolein
Concen: 88.767 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 56 Resp: 2286

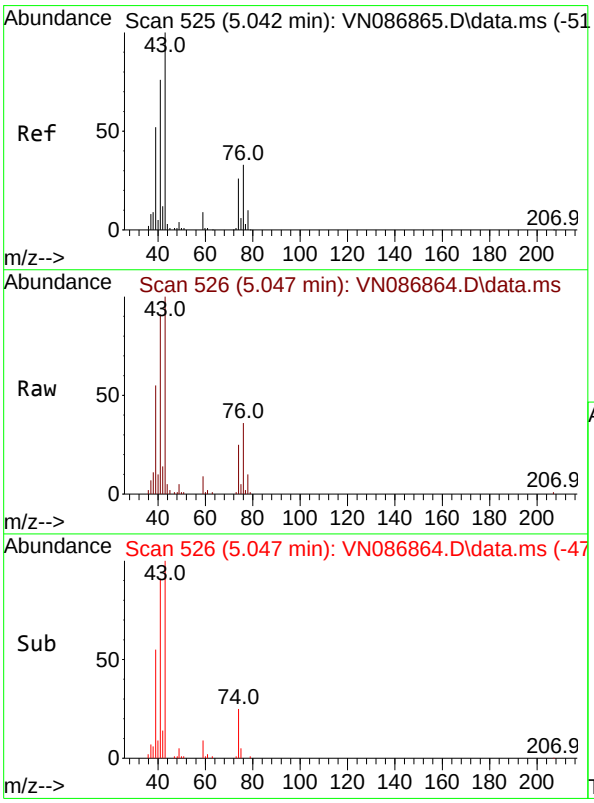
Ion	Ratio	Lower	Upper
56	100		
55	71.6	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

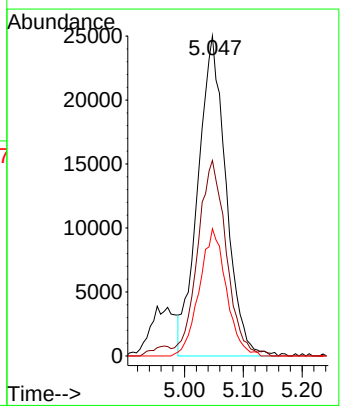
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

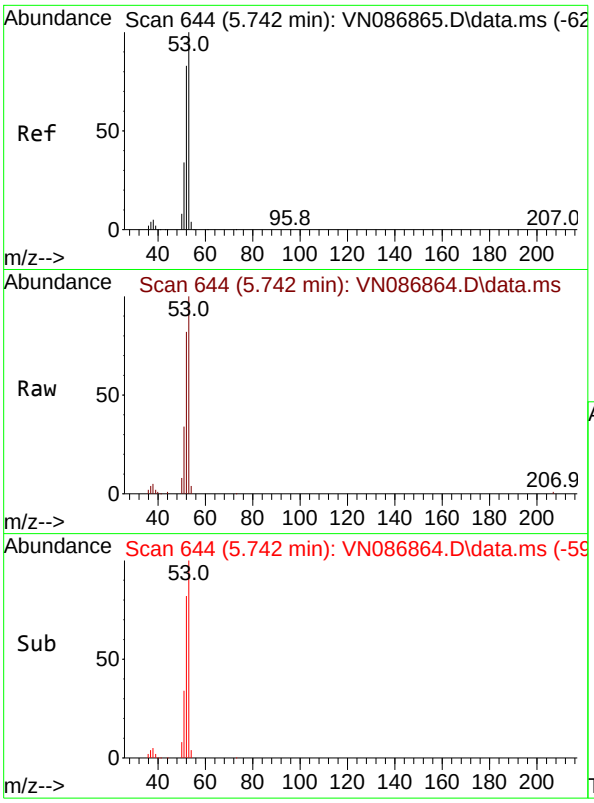


#14
Allyl chloride
Concen: 20.055 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 41 Resp: 82924

Ion	Ratio	Lower	Upper
41	100		
39	62.6	51.3	76.9
76	38.1	31.4	47.0

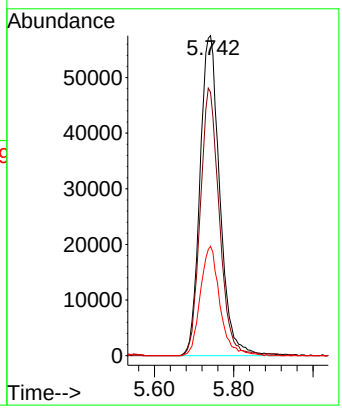




#15
Acrylonitrile
Concen: 104.881 ug/l
RT: 5.742 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 53 Resp: 19949

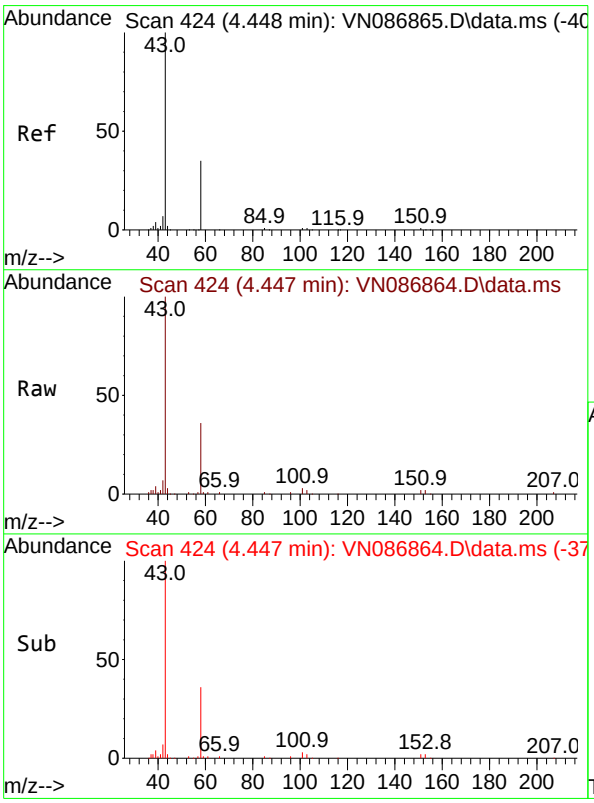
Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.0	97.6
51	33.7	27.2	40.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

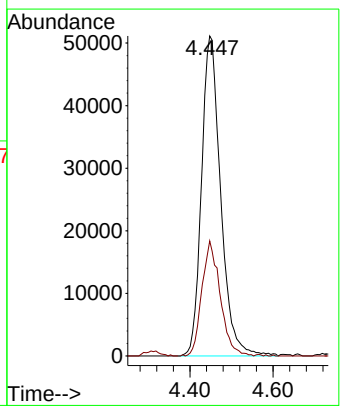
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

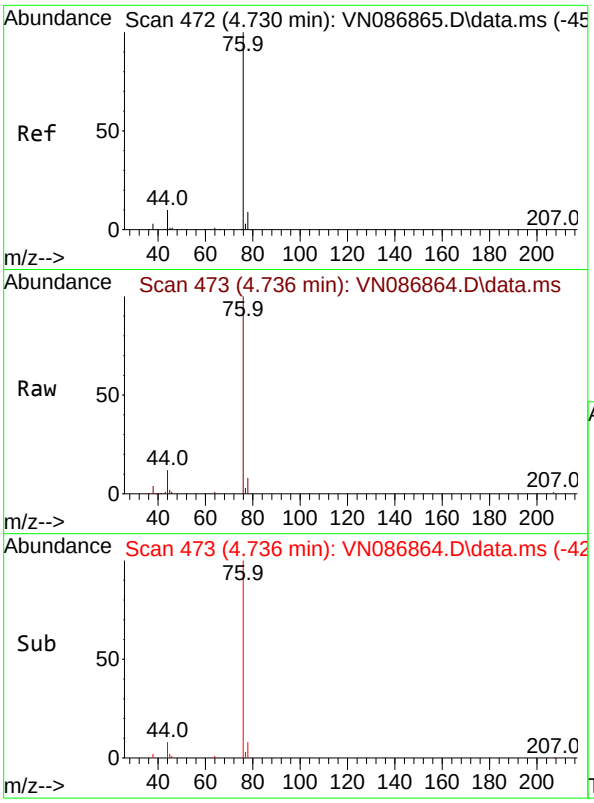


#16
Acetone
Concen: 103.099 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 43 Resp: 163979

Ion	Ratio	Lower	Upper
43	100		
58	35.9	28.0	42.0

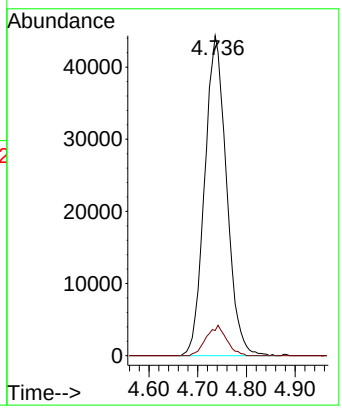




#17
Carbon Disulfide
Concen: 20.038 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 76 Resp: 13819

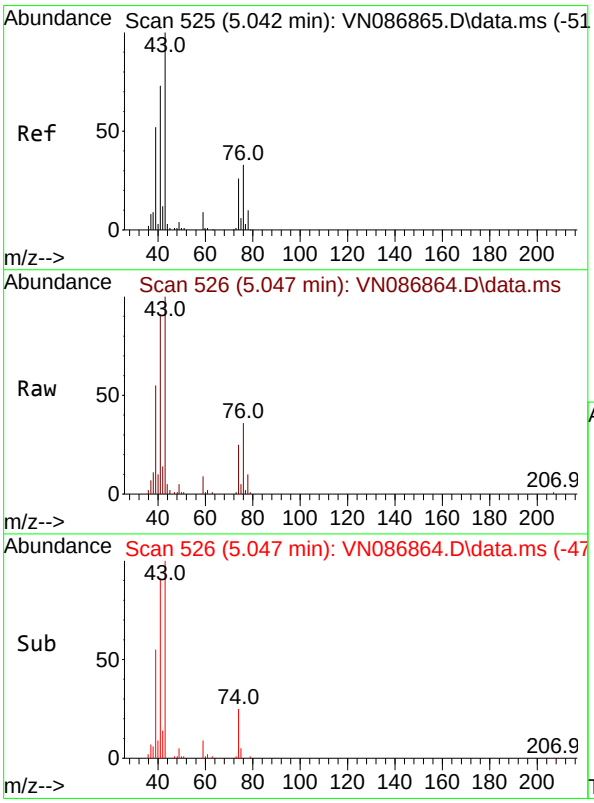
Ion	Ratio	Lower	Upper
76	100		
78	7.8	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

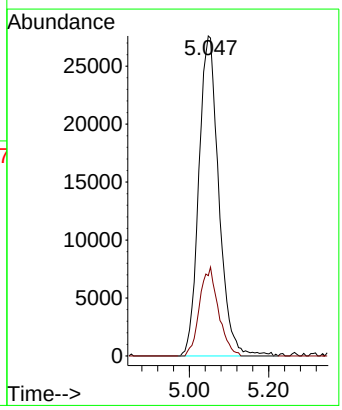
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

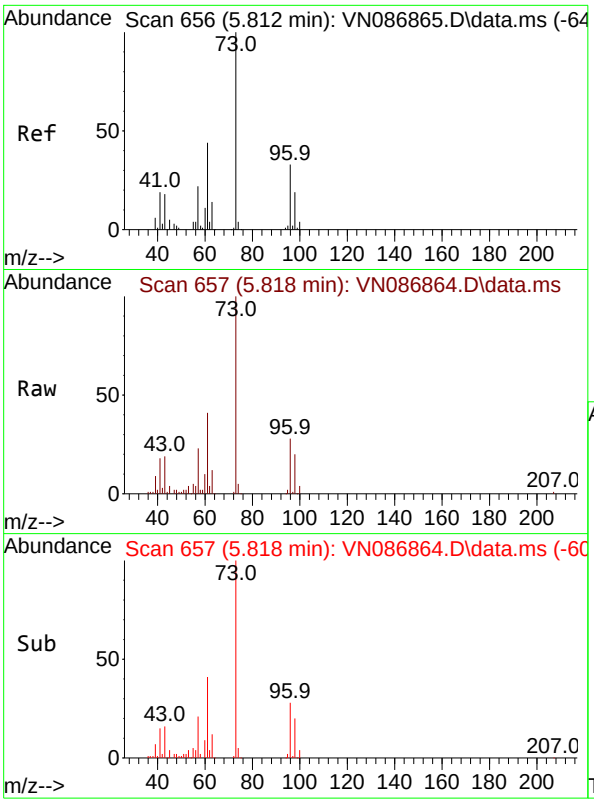


#18
Methyl Acetate
Concen: 20.830 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 43 Resp: 96547

Ion	Ratio	Lower	Upper
43	100		
74	26.2	20.7	31.1

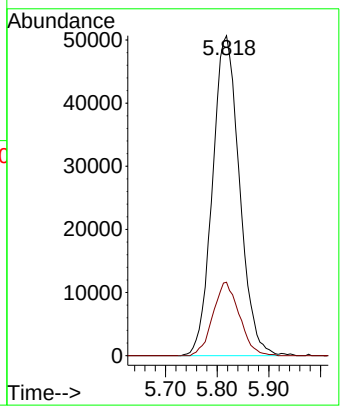




#19
Methyl tert-butyl Ether
Concen: 20.358 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 73 Resp: 18378

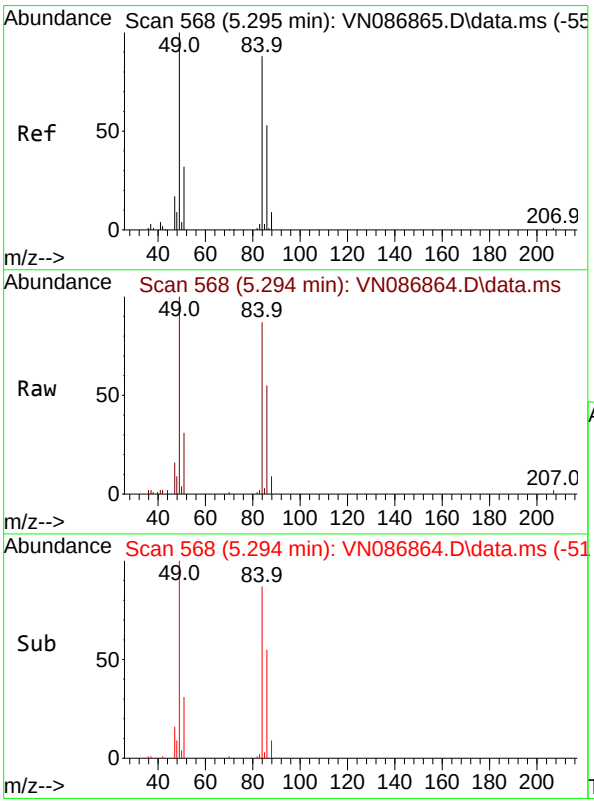
Ion	Ratio	Lower	Upper
73	100		
57	22.9	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

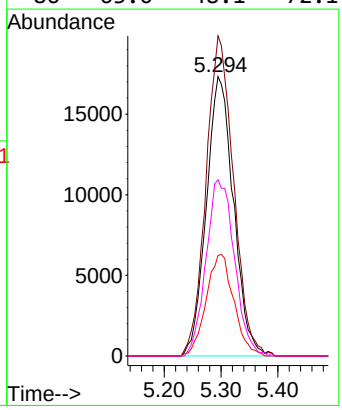
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

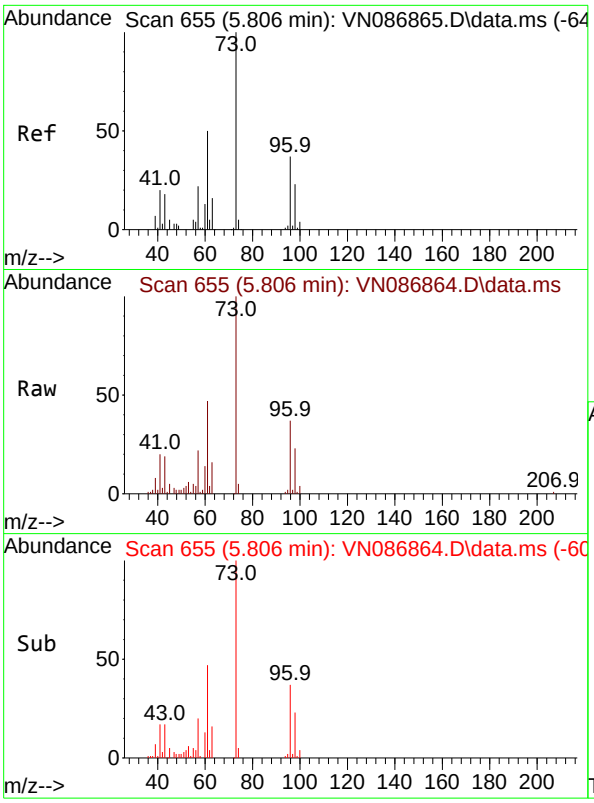


#20
Methylene Chloride
Concen: 19.348 ug/l
RT: 5.294 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 84 Resp: 57611

Ion	Ratio	Lower	Upper
84	100		
49	114.5	90.5	135.7
51	35.9	28.5	42.7
86	63.0	48.1	72.1

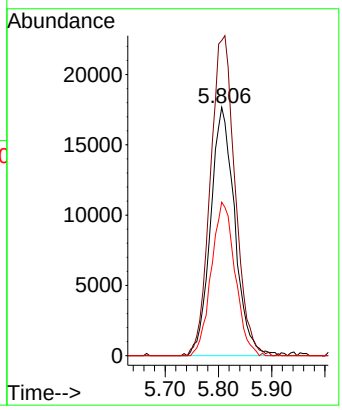




#21
trans-1,2-Dichloroethene
Concen: 20.059 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 96 Resp: 5564

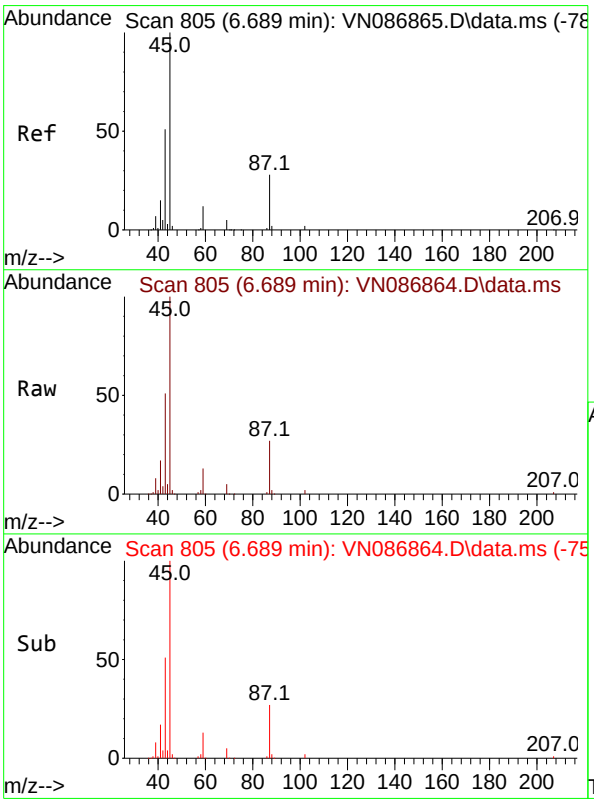
Ion	Ratio	Lower	Upper
96	100		
61	126.9	109.2	163.8
98	61.8	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

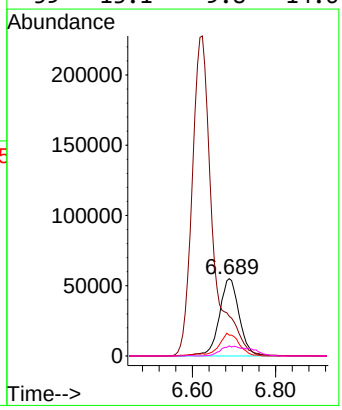
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

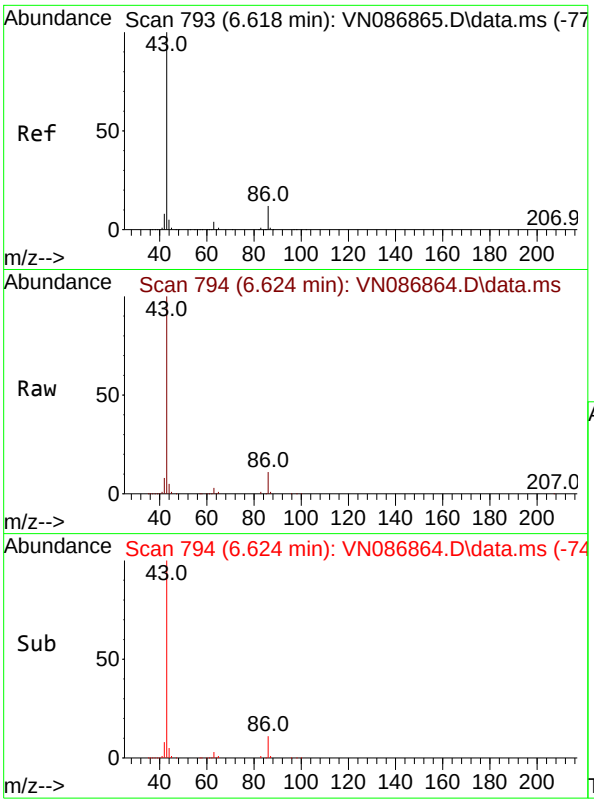


#22
Diisopropyl ether
Concen: 20.935 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 45 Resp: 182472

Ion	Ratio	Lower	Upper
45	100		
43	50.7	41.9	62.9
87	27.0	22.4	33.6
59	13.1	9.8	14.6

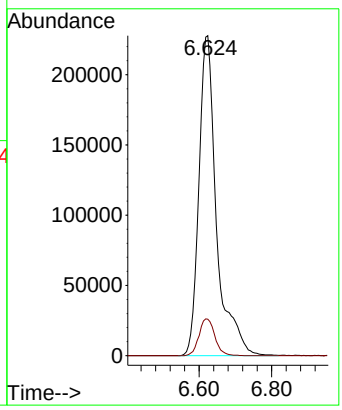




#23
Vinyl Acetate
Concen: 104.365 ug/l
RT: 6.624 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 43 Resp: 76855

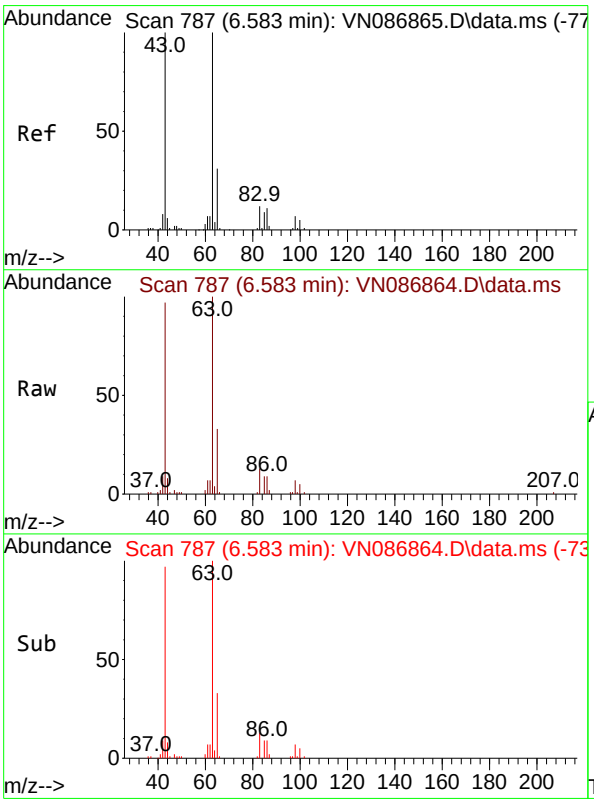
Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.5	14.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

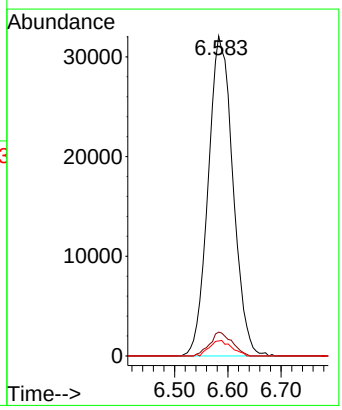
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

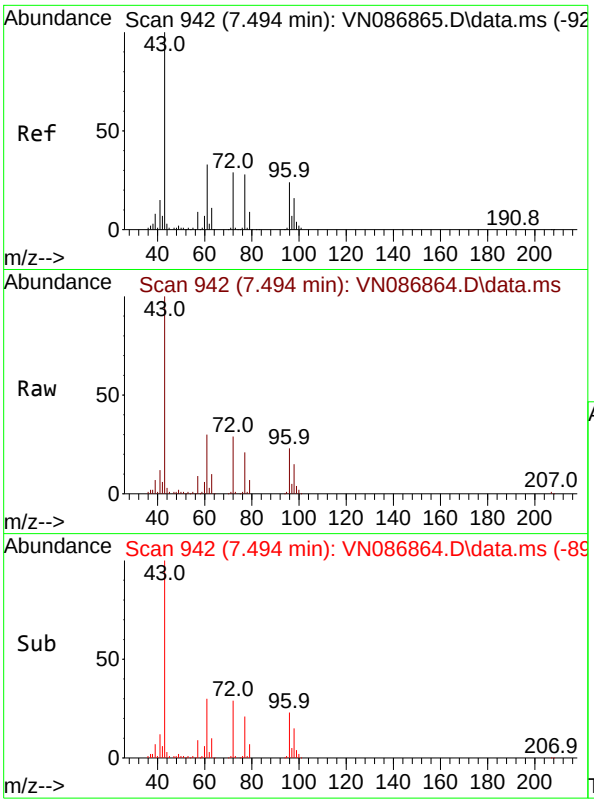


#24
1,1-Dichloroethane
Concen: 20.650 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 63 Resp: 103578

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.6	10.8
100	4.7	2.6	7.8





#25
2-Butanone
Concen: 104.621 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

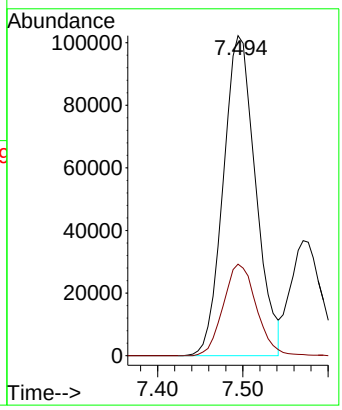
Tgt Ion: 43 Resp: 27047

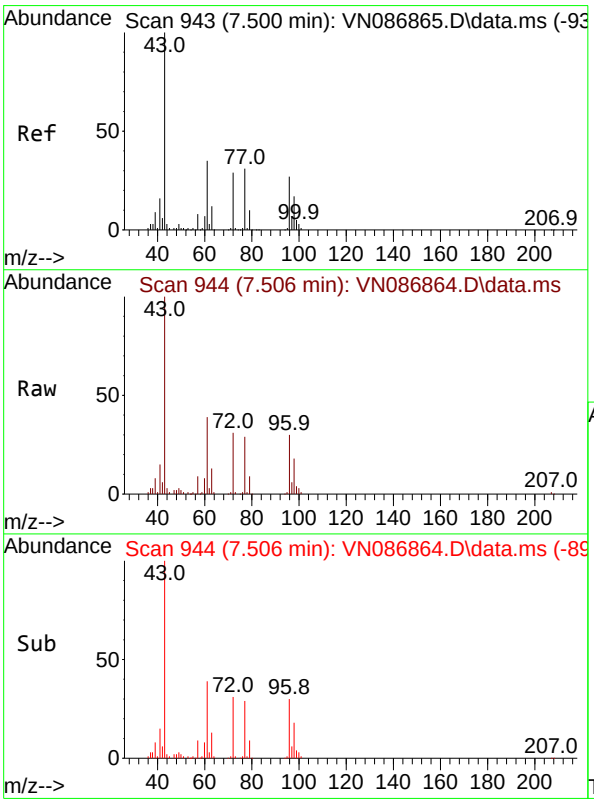
Ion	Ratio	Lower	Upper
43	100		
72	28.6	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

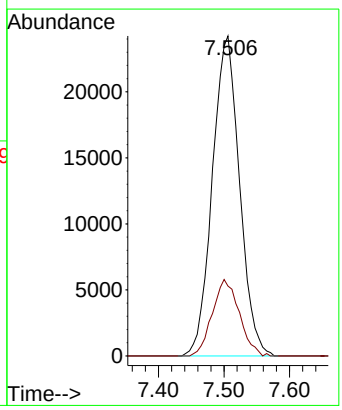


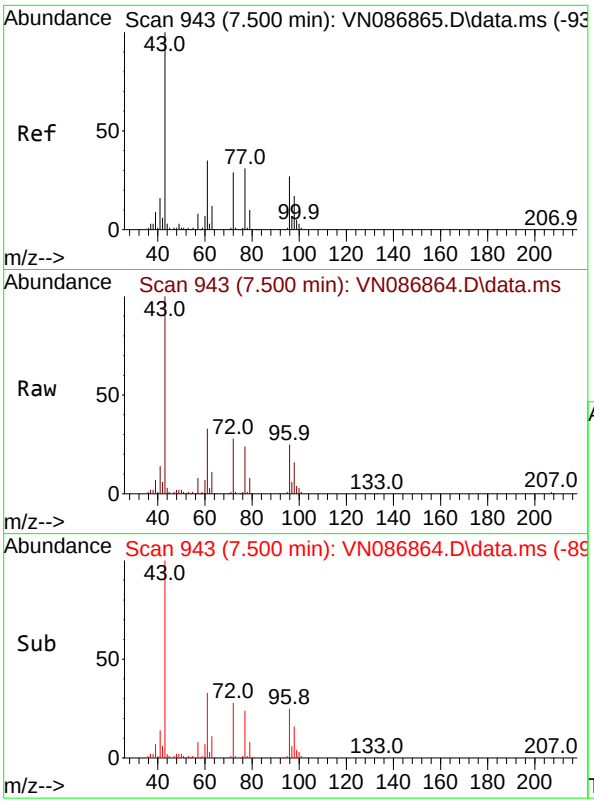


#26
2,2-Dichloropropane
Concen: 17.862 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 77 Resp: 69692

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.6	34.7

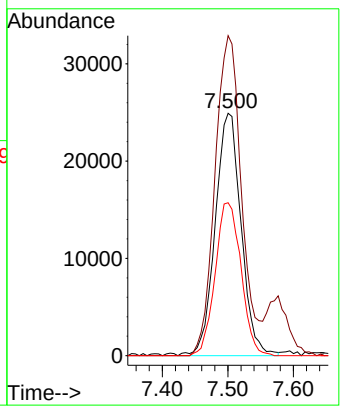




#27
cis-1,2-Dichloroethene
Concen: 20.585 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 96 Resp: 6829

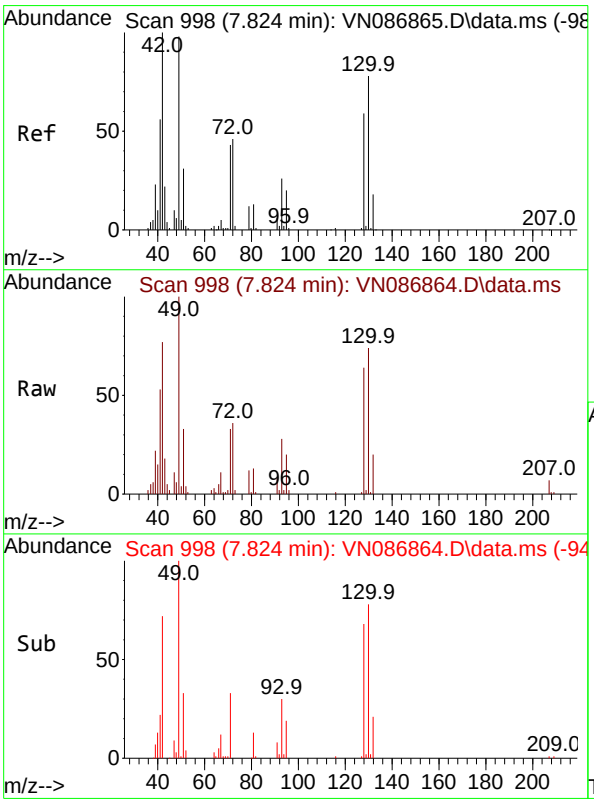
Ion	Ratio	Lower	Upper
96	100		
61	135.5	0.0	278.0
98	63.0	0.0	128.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

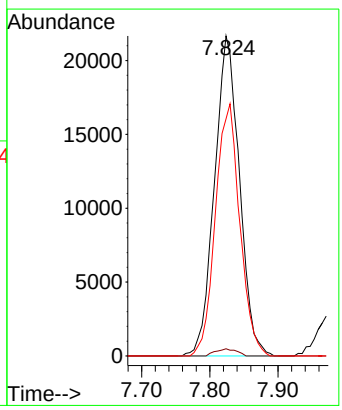
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

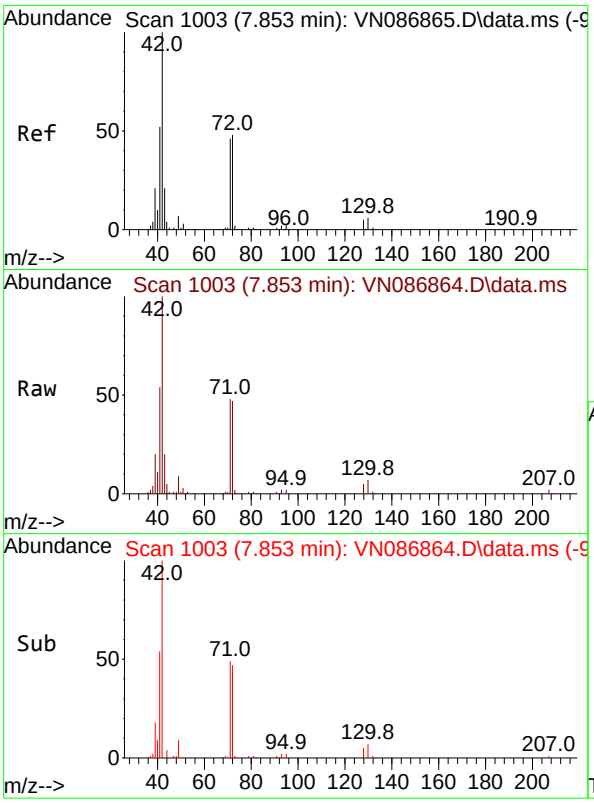


#28
Bromochloromethane
Concen: 22.381 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 49 Resp: 55196

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	77.1	62.2	93.2





#29
Tetrahydrofuran
Concen: 106.031 ug/l
RT: 7.853 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

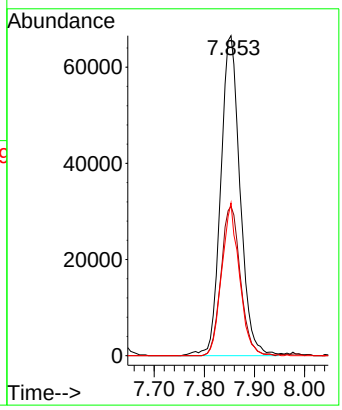
Tgt Ion: 42 Resp: 17857

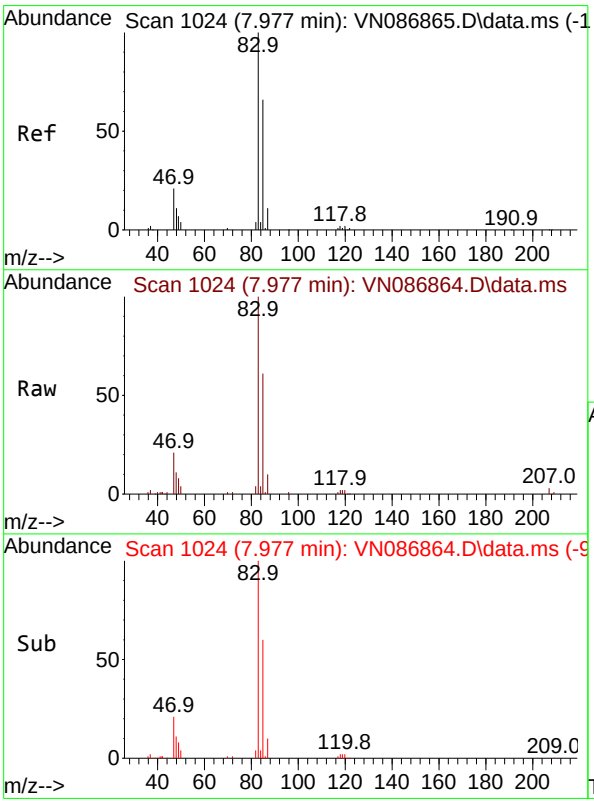
Ion	Ratio	Lower	Upper
42	100		
72	46.6	37.8	56.6
71	43.5	35.6	53.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

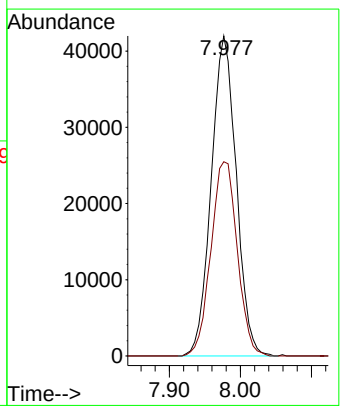


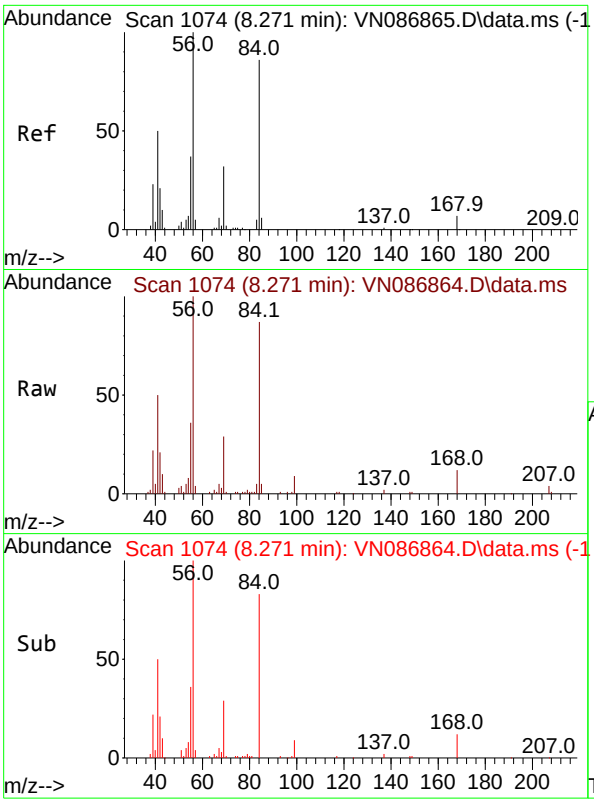


#30
Chloroform
Concen: 20.485 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 83 Resp: 102615

Ion	Ratio	Lower	Upper
83	100		
85	60.7	52.9	79.3

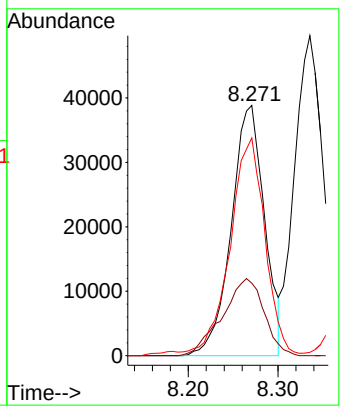




#31
Cyclohexane
Concen: 20.563 ug/l
RT: 8.271 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 56 Resp: 10002

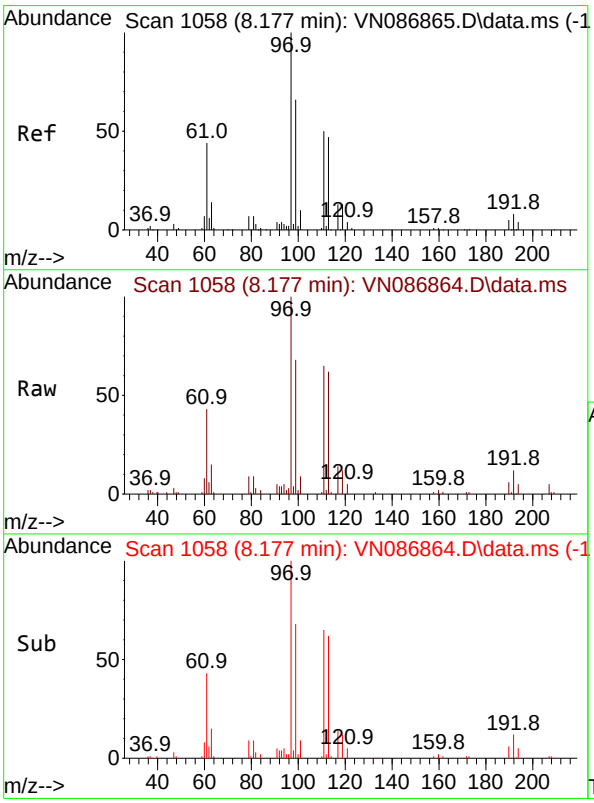
Ion	Ratio	Lower	Upper
56	100		
69	29.0	25.4	38.0
84	85.6	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

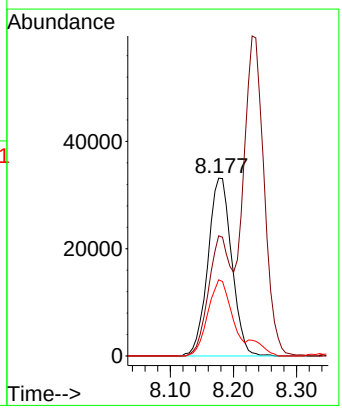
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

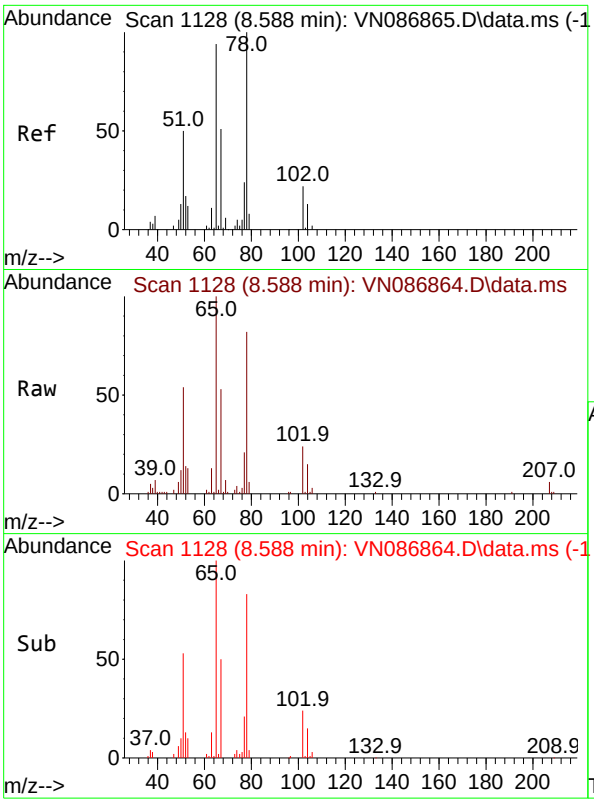


#32
1,1,1-Trichloroethane
Concen: 20.376 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 97 Resp: 86810

Ion	Ratio	Lower	Upper
97	100		
99	63.8	52.0	78.0
61	43.3	35.9	53.9

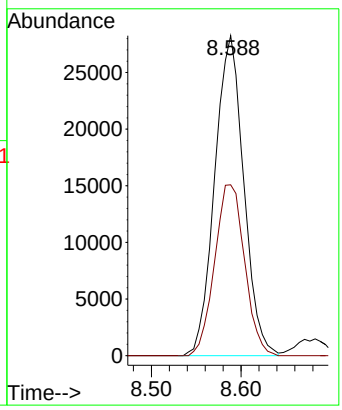




#33
1,2-Dichloroethane-d4
Concen: 21.136 ug/l
RT: 8.588 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 65 Resp: 6339

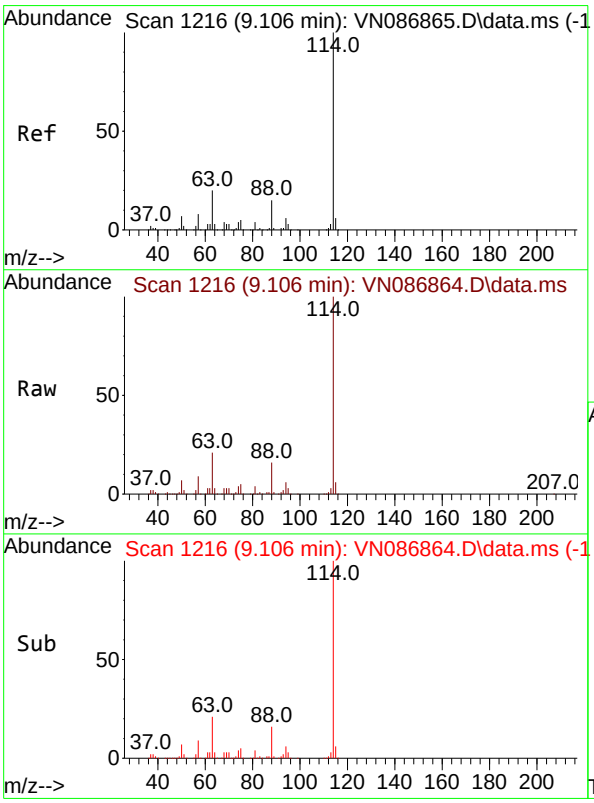
Ion	Ratio	Lower	Upper
65	100		
67	55.3	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

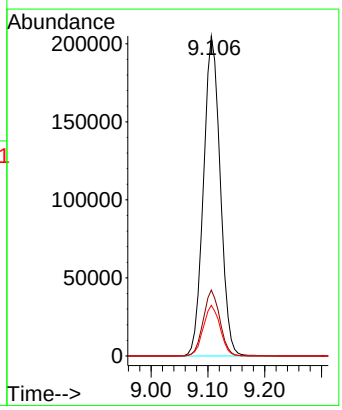
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

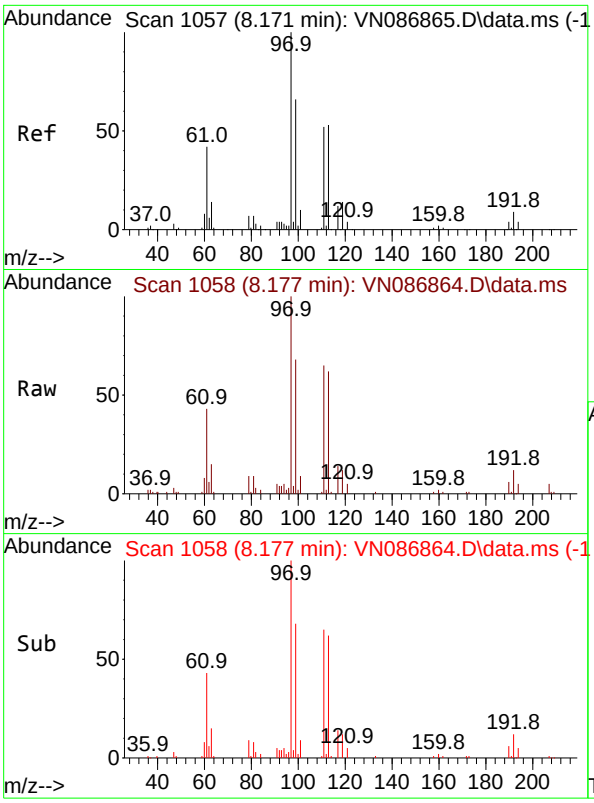


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:114 Resp: 418154

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	39.6
88	15.8	0.0	30.2

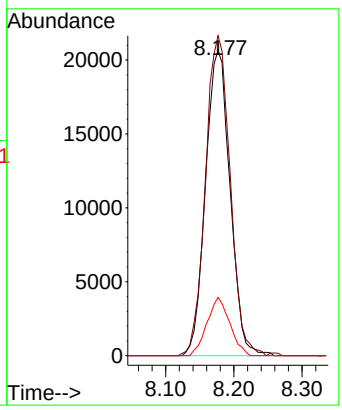




#35
Dibromofluoromethane
Concen: 20.902 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:113 Resp: 5179

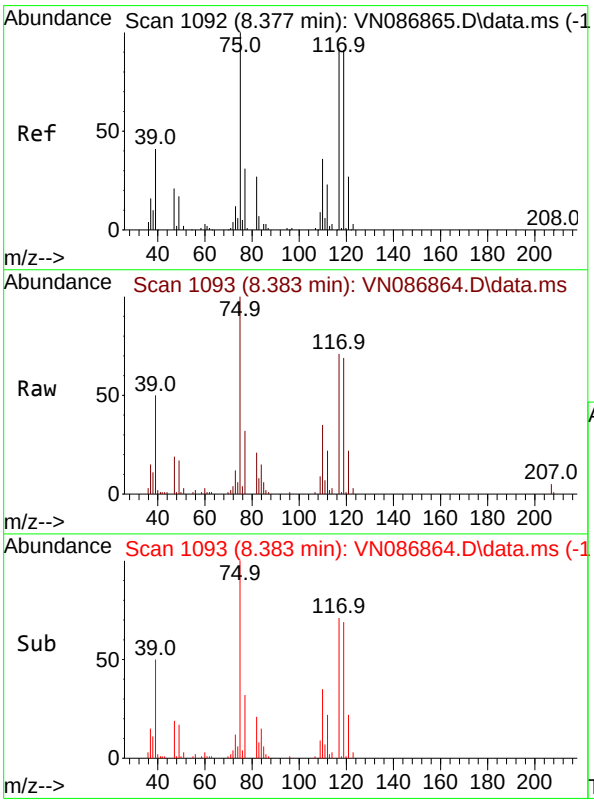
Ion	Ratio	Lower	Upper
113	100		
111	105.1	84.2	126.2
192	17.7	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

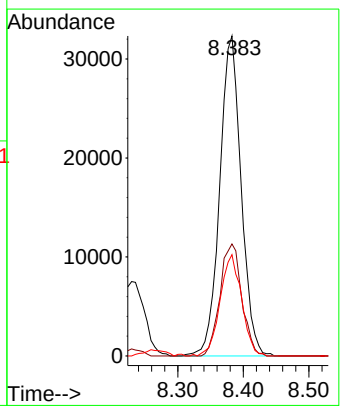
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

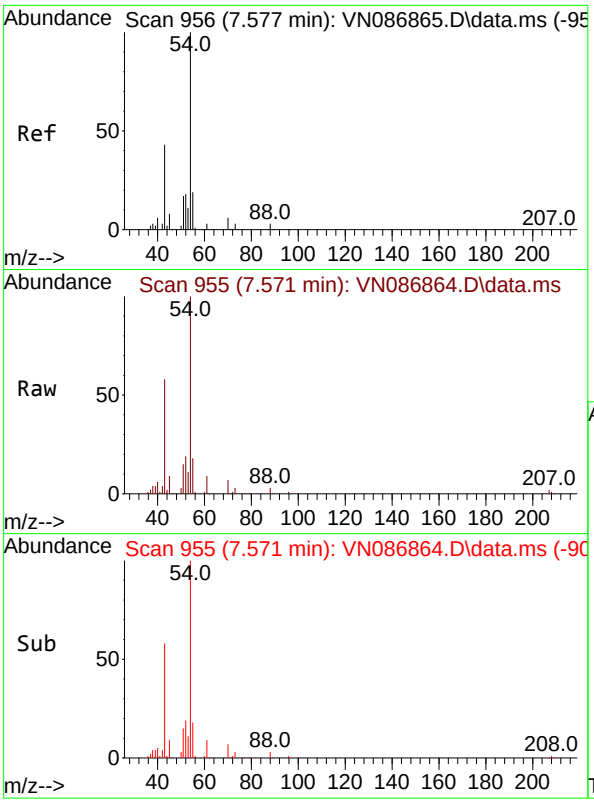


#36
1,1-Dichloropropene
Concen: 19.838 ug/l
RT: 8.383 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 75 Resp: 73252

Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.6	52.9
77	31.8	25.3	37.9

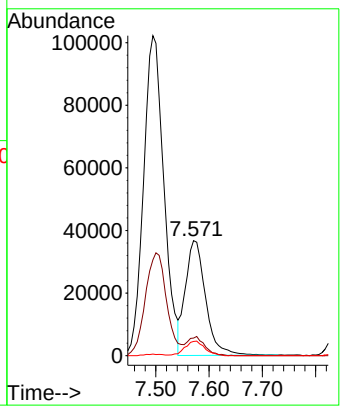




#37
Ethyl Acetate
Concen: 20.522 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 43 Resp: 9646

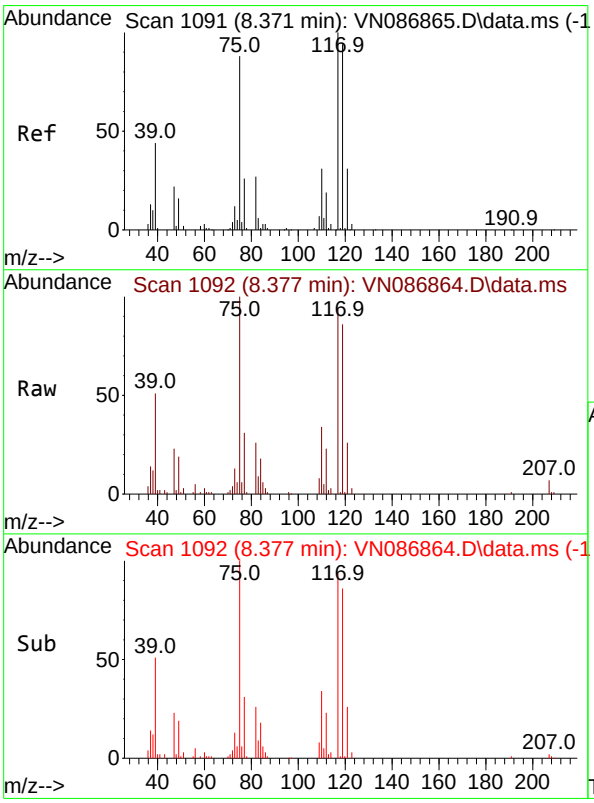
Ion	Ratio	Lower	Upper
43	100		
61	13.9	12.1	18.1
70	12.6	9.8	14.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

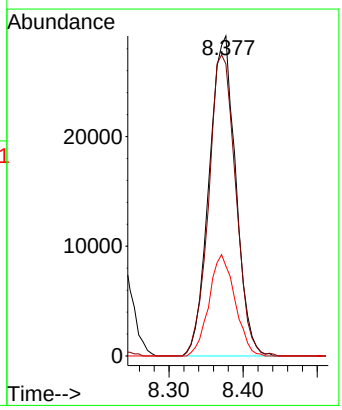
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

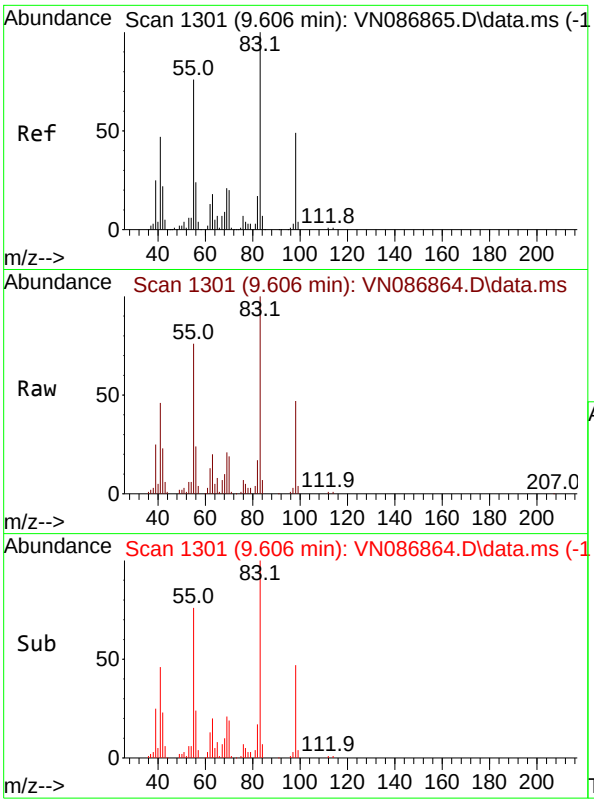


#38
Carbon Tetrachloride
Concen: 20.034 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:117 Resp: 72628

Ion	Ratio	Lower	Upper
117	100		
119	91.3	75.0	112.6
121	28.1	24.9	37.3





#39
Methylcyclohexane
Concen: 19.455 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

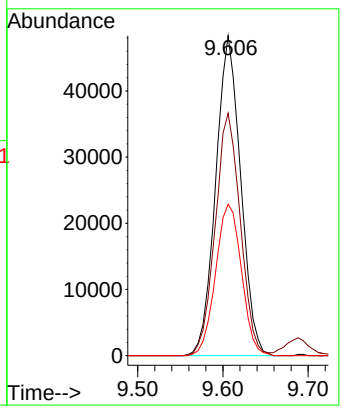
Tgt Ion: 83 Resp: 9842

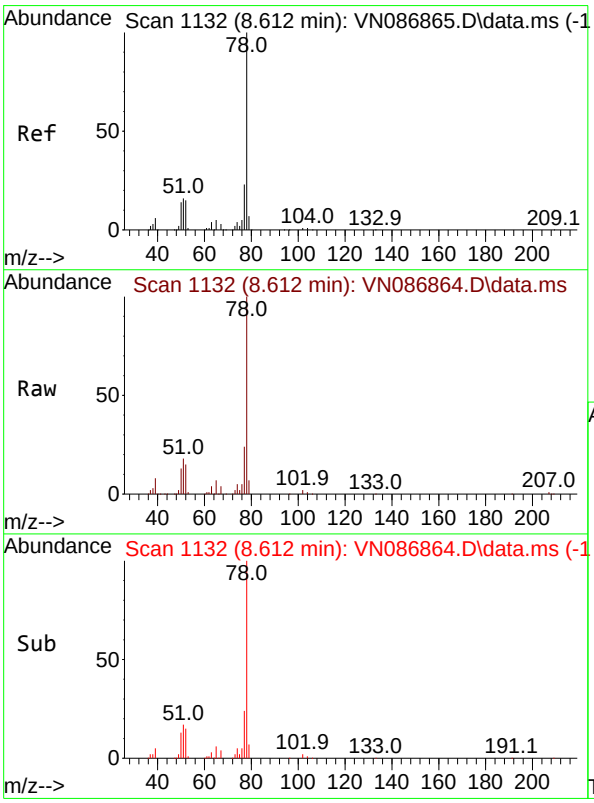
Ion	Ratio	Lower	Upper
83	100		
55	75.7	61.0	91.6
98	47.4	38.9	58.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

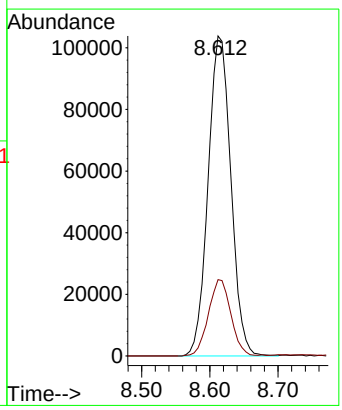


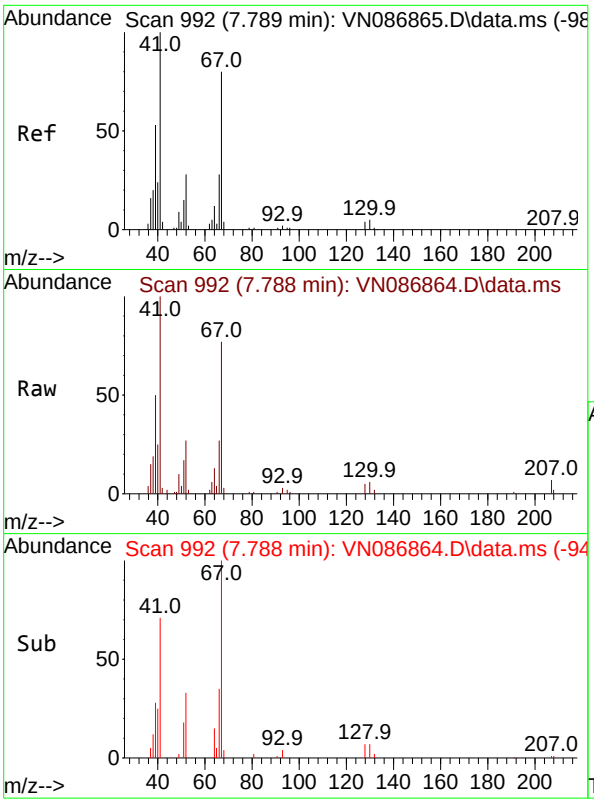


#40
Benzene
Concen: 19.996 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 78 Resp: 241444

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.7	28.1

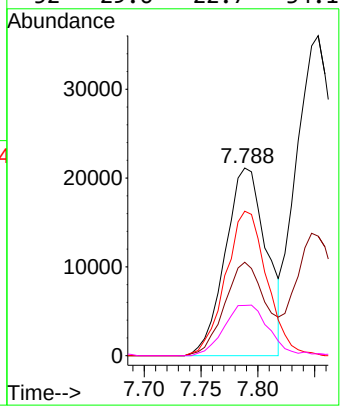




#41
Methacrylonitrile
Concen: 20.169 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 41 Resp: 5324

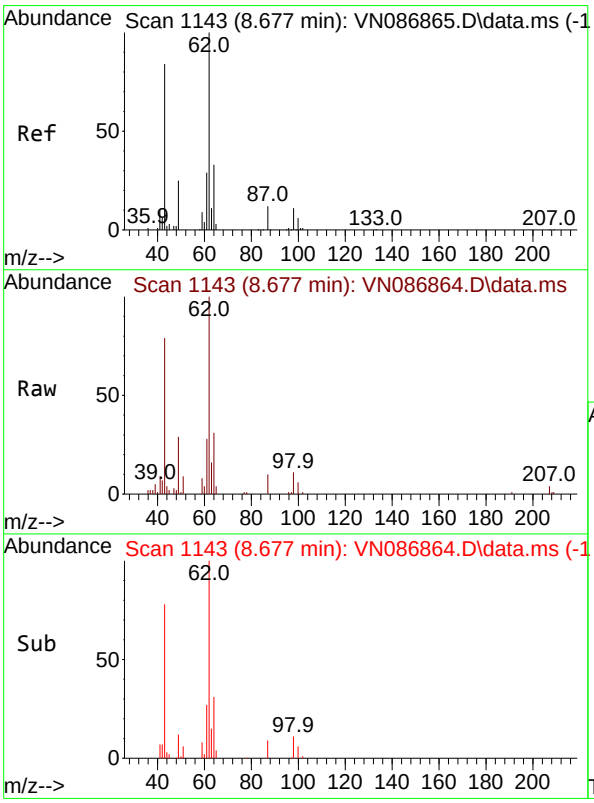
Ion	Ratio	Lower	Upper
41	100		
39	49.5	41.2	61.8
67	77.3	61.4	92.2
52	29.6	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

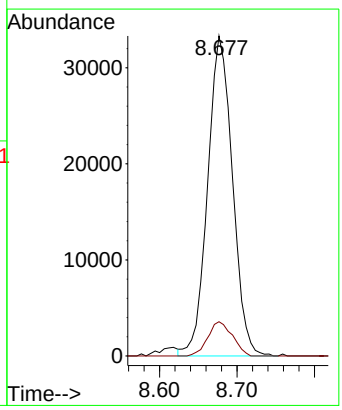
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

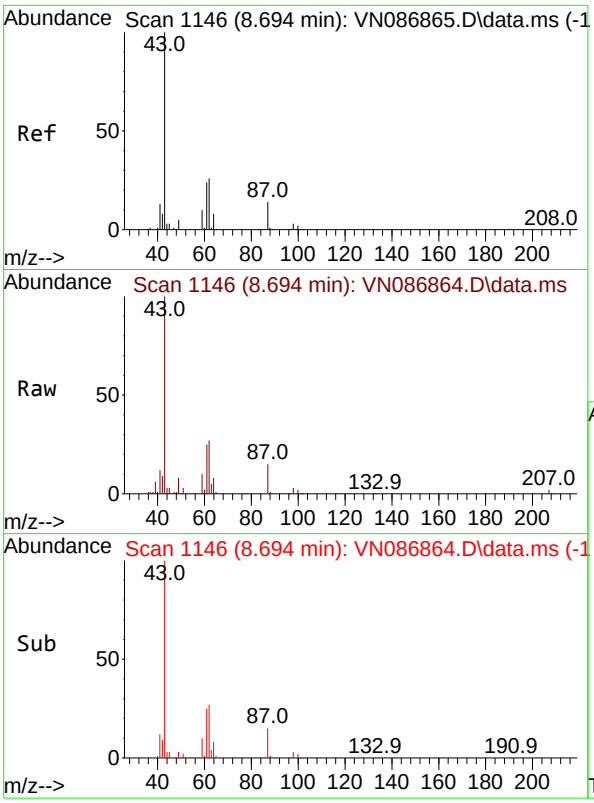


#42
1,2-Dichloroethane
Concen: 20.270 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 62 Resp: 74238

Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	21.2





#43
Isopropyl Acetate
Concen: 20.094 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

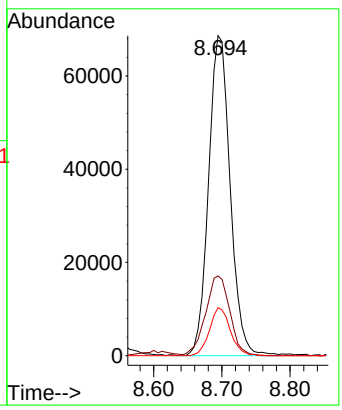
Tgt Ion: 43 Resp: 15160

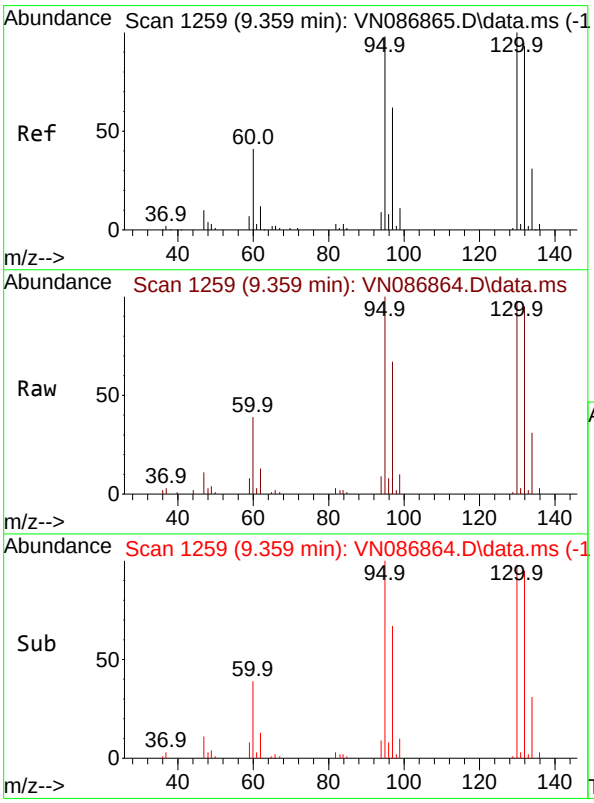
Ion	Ratio	Lower	Upper
43	100		
61	27.9	22.1	33.1
87	14.4	11.8	17.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

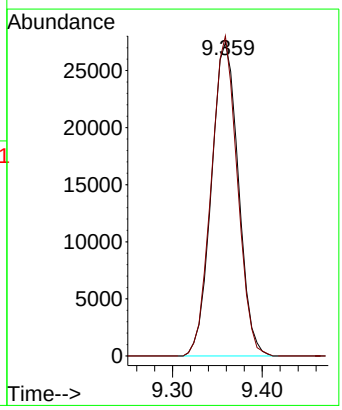


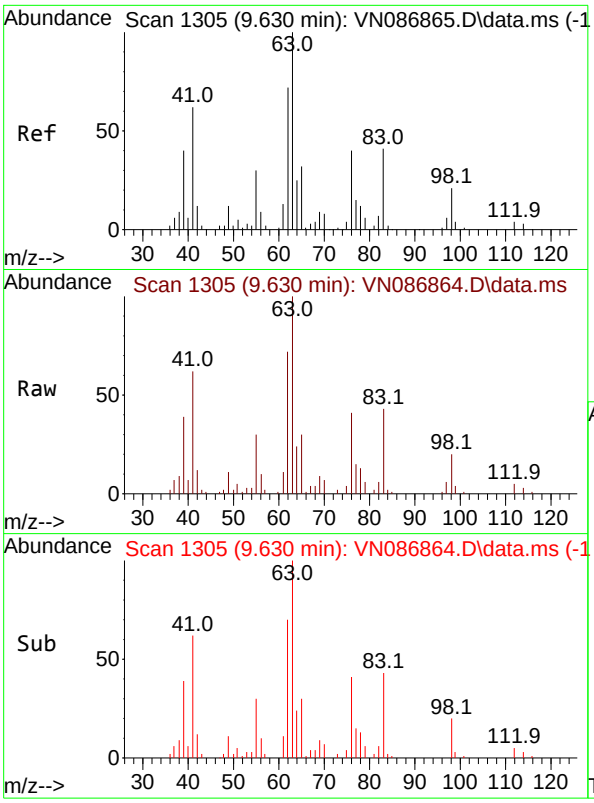


#44
Trichloroethene
Concen: 19.946 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:130 Resp: 57110

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	196.2

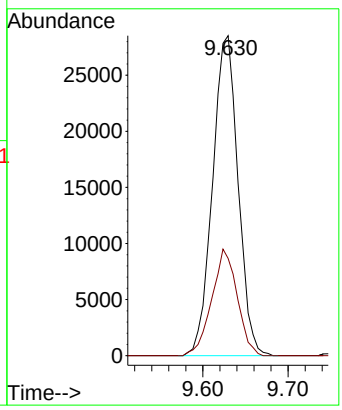




#45
1,2-Dichloropropane
Concen: 20.184 ug/l
RT: 9.630 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 63 Resp: 5929

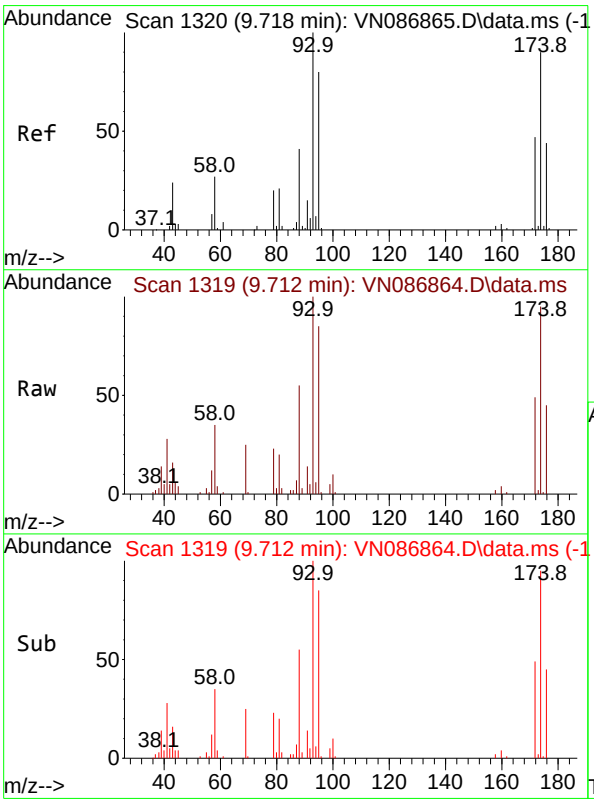
Ion	Ratio	Lower	Upper
63	100		
65	30.4	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

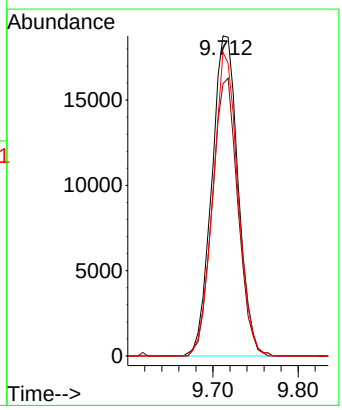
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

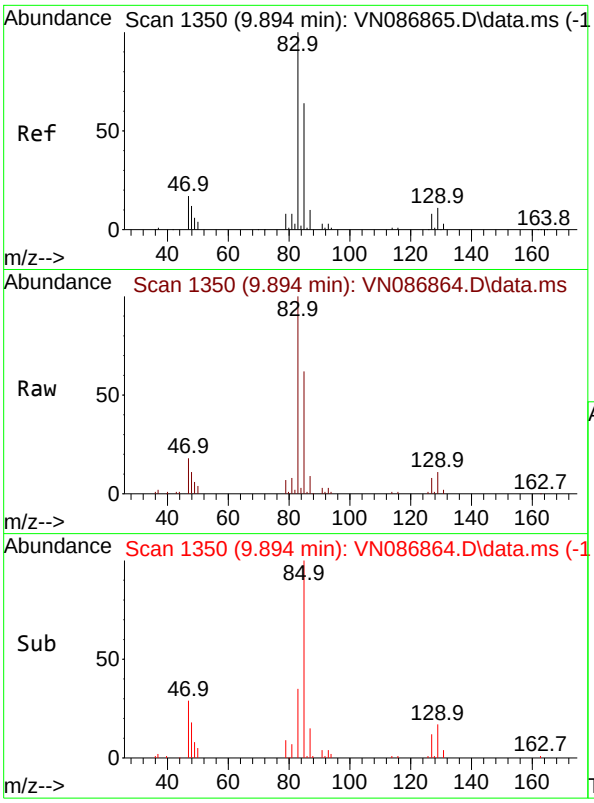


#46
Dibromomethane
Concen: 20.648 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 93 Resp: 40290

Ion	Ratio	Lower	Upper
93	100		
95	84.1	67.1	100.7
174	90.1	74.2	111.4

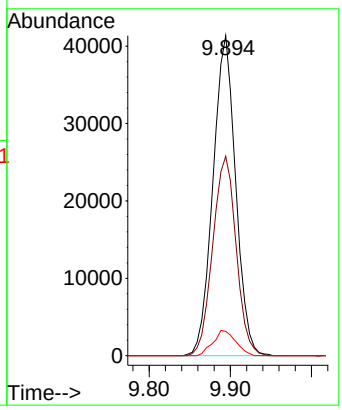




#47
Bromodichloromethane
Concen: 20.015 ug/l
RT: 9.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 83 Resp: 8035

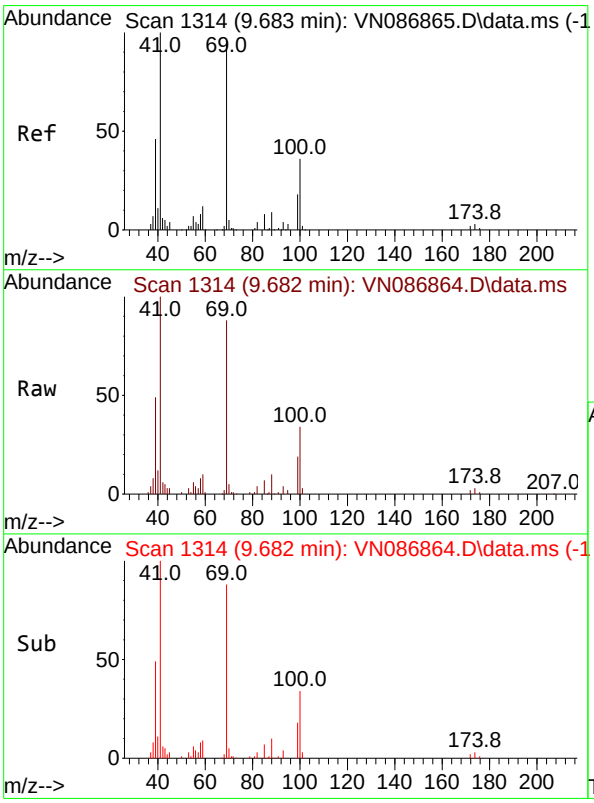
Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.9	76.3
127	7.6	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

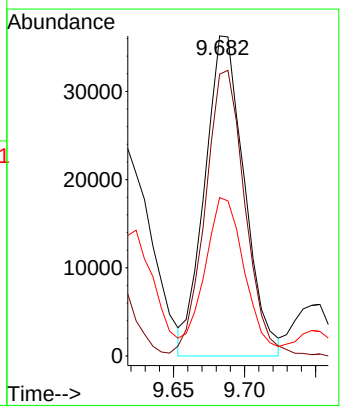
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

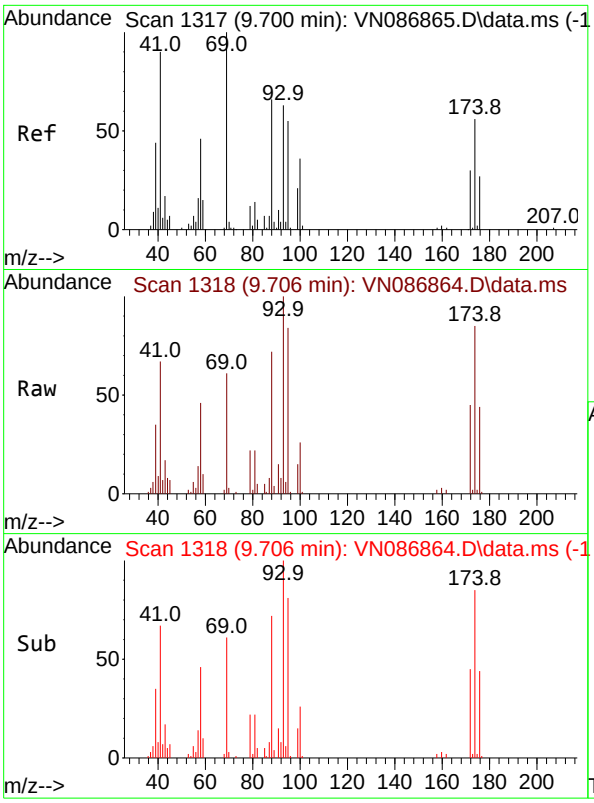


#48
Methyl methacrylate
Concen: 20.290 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 41 Resp: 70457

Ion	Ratio	Lower	Upper
41	100		
69	89.4	74.6	112.0
39	50.3	40.2	60.4

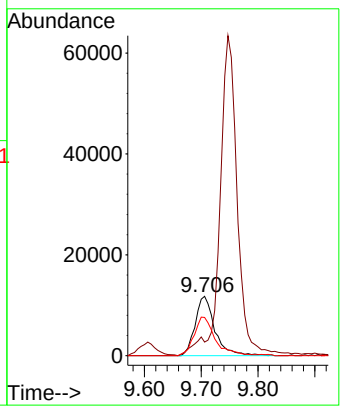




#49
1,4-Dioxane
Concen: 446.886 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 88 Resp: 2823

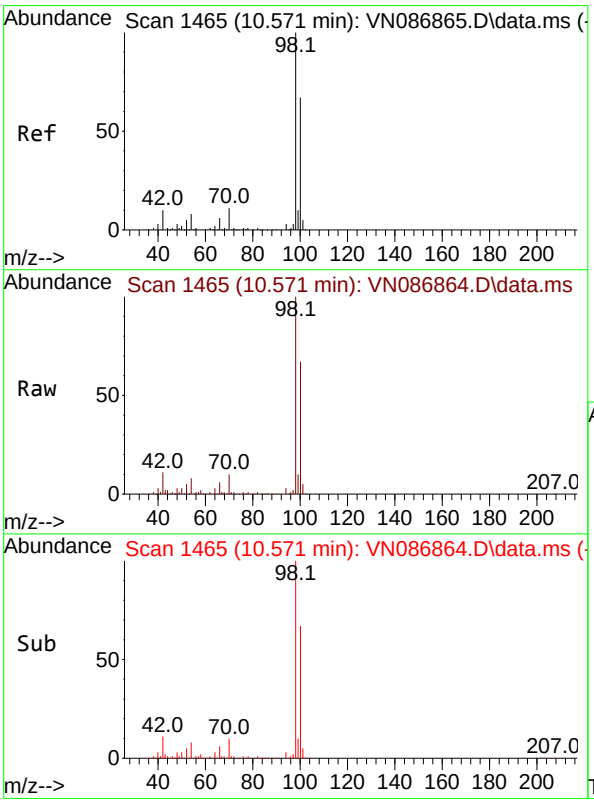
Ion	Ratio	Lower	Upper
88	100		
43	19.7	0.0	0.0
58	70.1	57.7	86.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

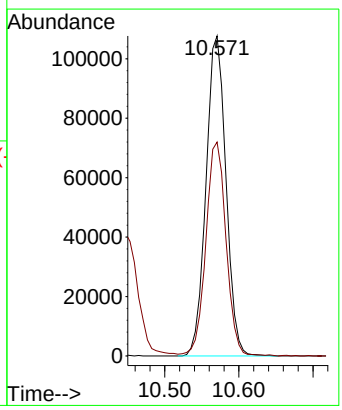
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

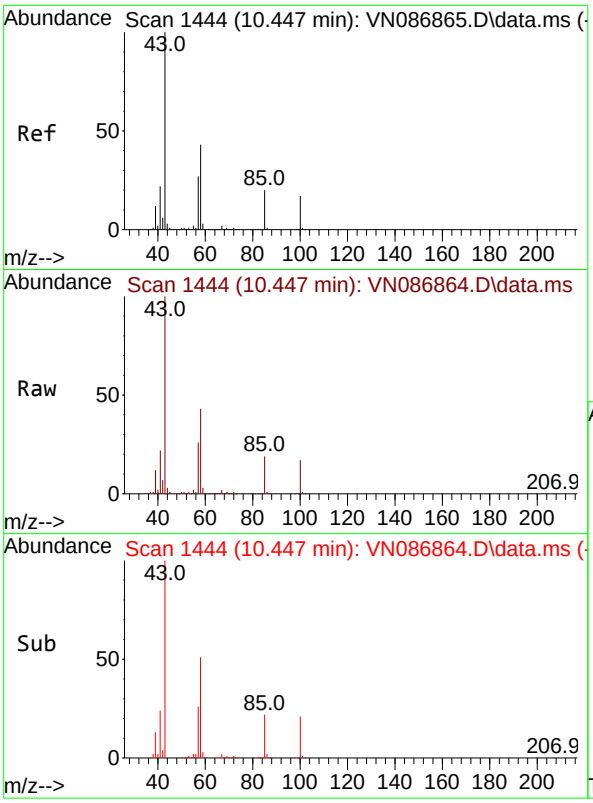


#50
Toluene-d8
Concen: 20.516 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 98 Resp: 201268

Ion	Ratio	Lower	Upper
98	100		
100	67.8	53.4	80.0

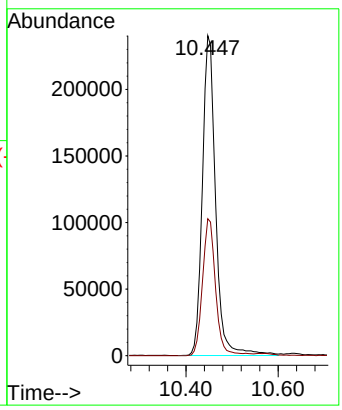




#51
4-Methyl-2-Pentanone
Concen: 106.066 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 43 Resp: 48174

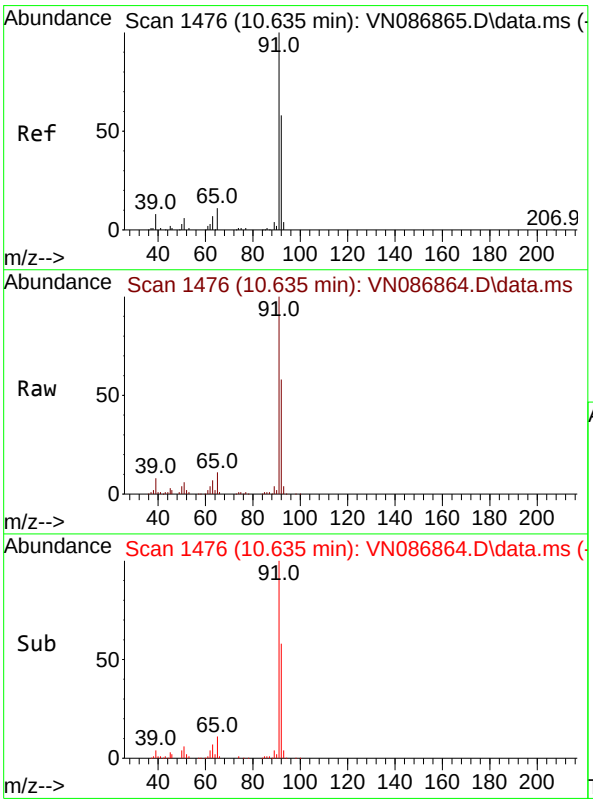
Ion	Ratio	Lower	Upper
43	100		
58	42.0	34.2	51.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

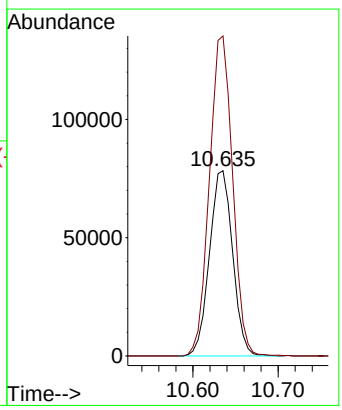
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

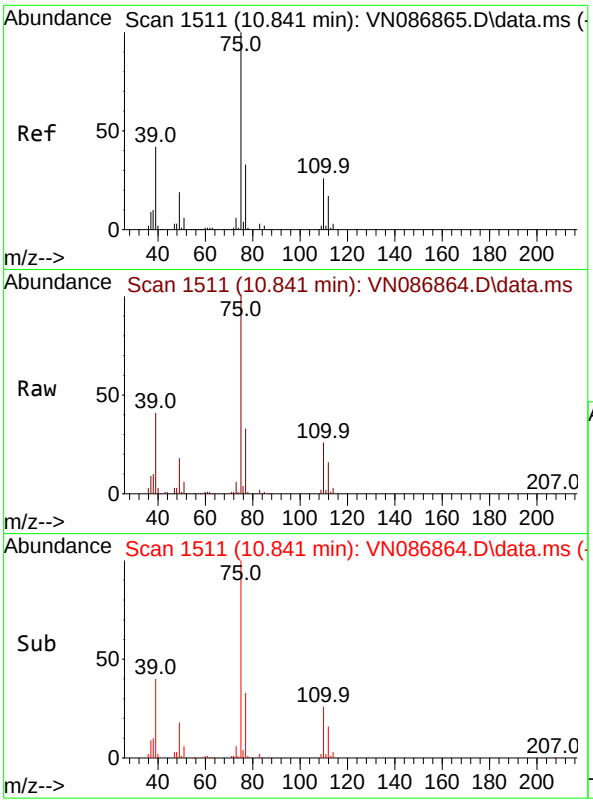


#52
Toluene
Concen: 20.056 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 92 Resp: 148000

Ion	Ratio	Lower	Upper
92	100		
91	172.9	136.5	204.7

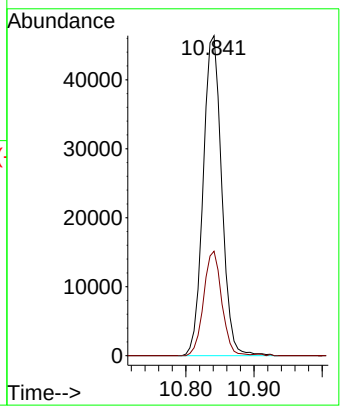




#53
t-1,3-Dichloropropene
Concen: 19.532 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 75 Resp: 8768

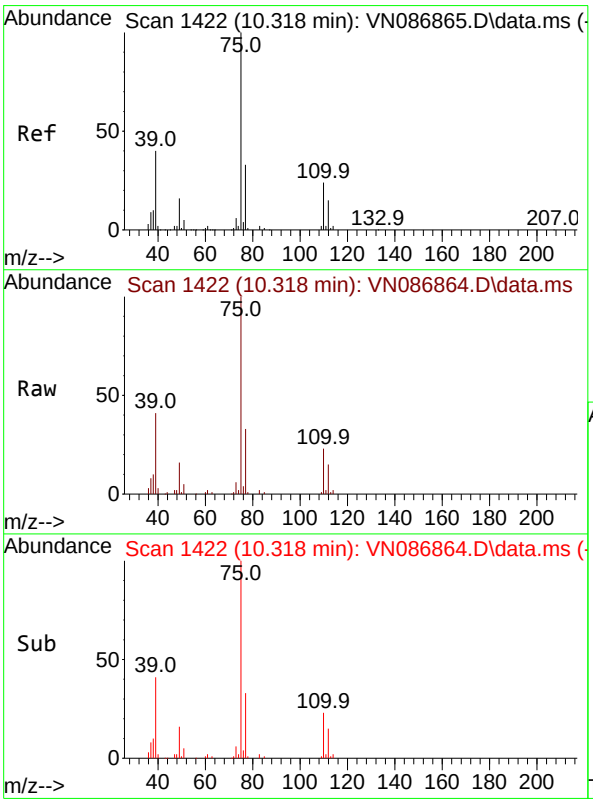
Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

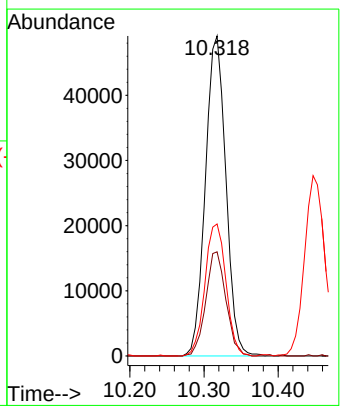
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

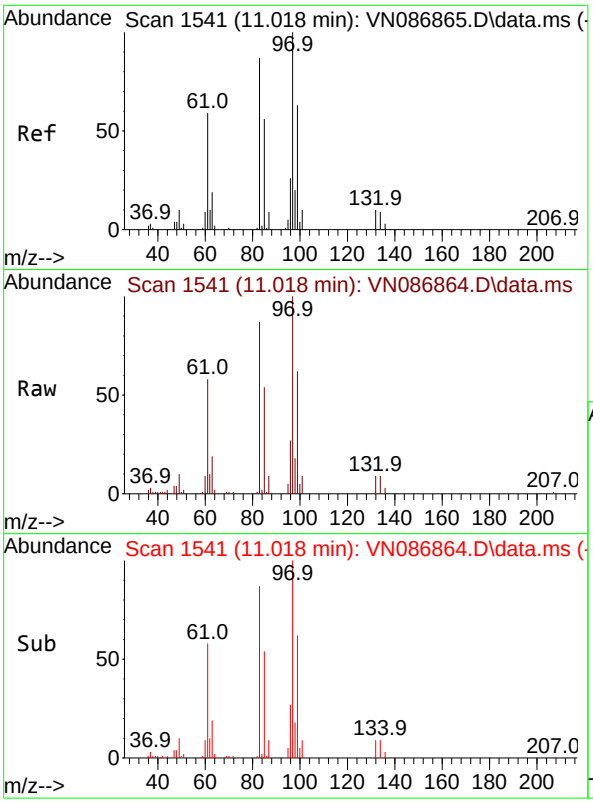


#54
cis-1,3-Dichloropropene
Concen: 19.636 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 75 Resp: 94315

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.2	39.4
39	41.3	32.3	48.5

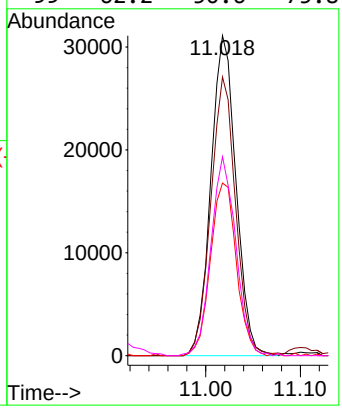




#55
1,1,2-Trichloroethane
Concen: 20.143 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 97 Resp: 5719

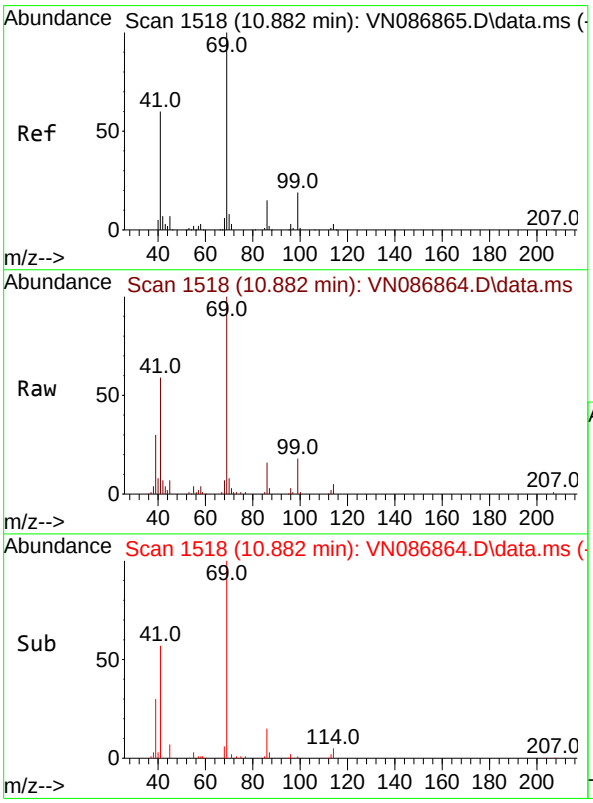
Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.7	104.5
85	54.0	45.1	67.7
99	62.2	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

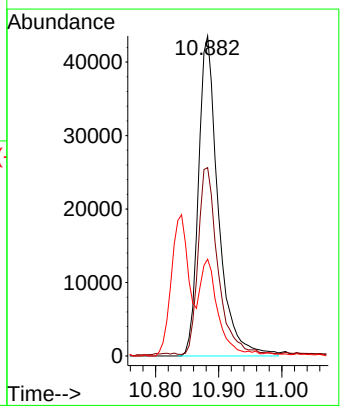
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

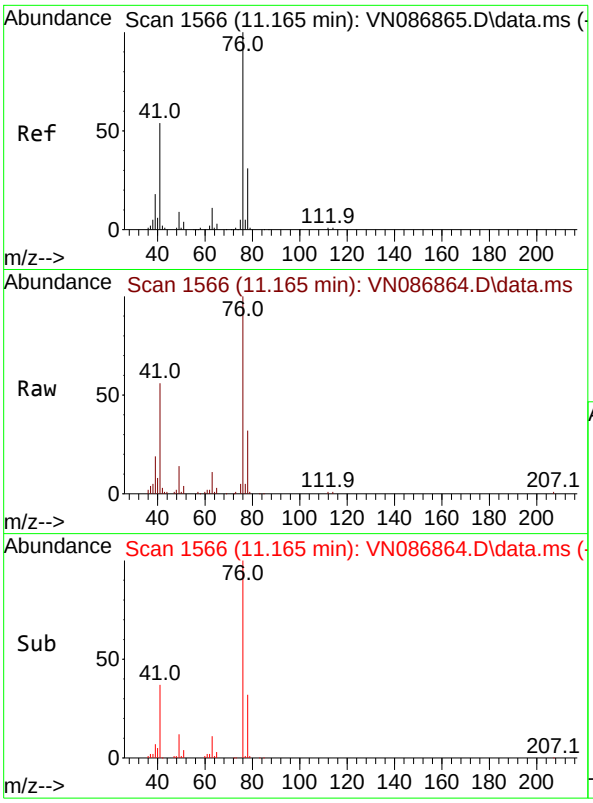


#56
Ethyl methacrylate
Concen: 20.968 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 69 Resp: 94829

Ion	Ratio	Lower	Upper
69	100		
41	58.9	47.2	70.8
39	25.9	23.0	34.6

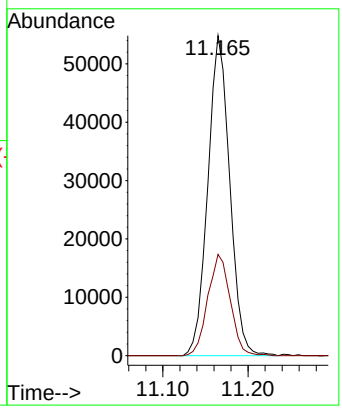




#57
1,3-Dichloropropane
Concen: 19.938 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 76 Resp: 9820

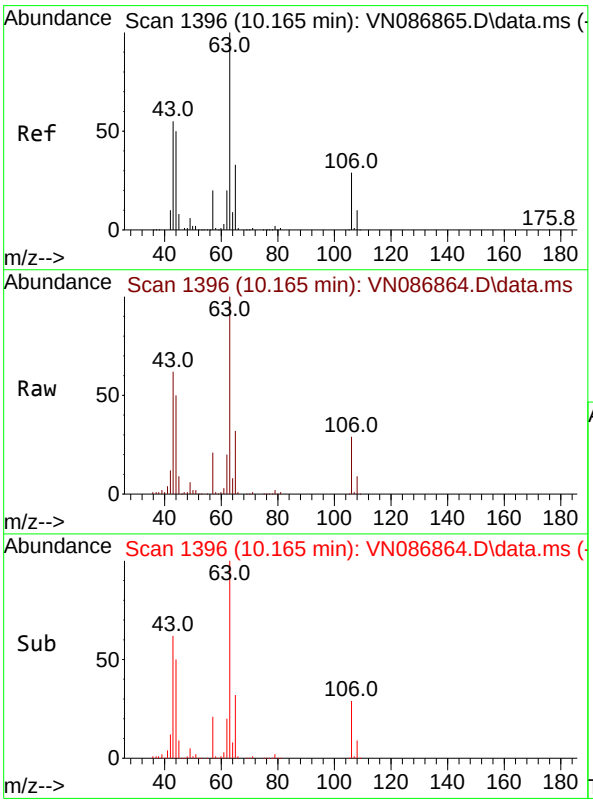
Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

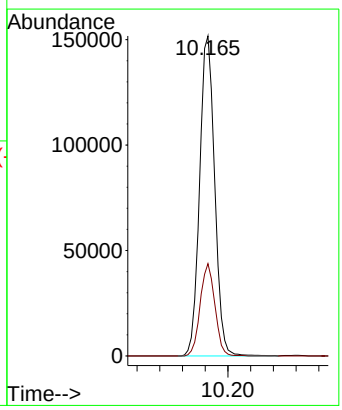
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

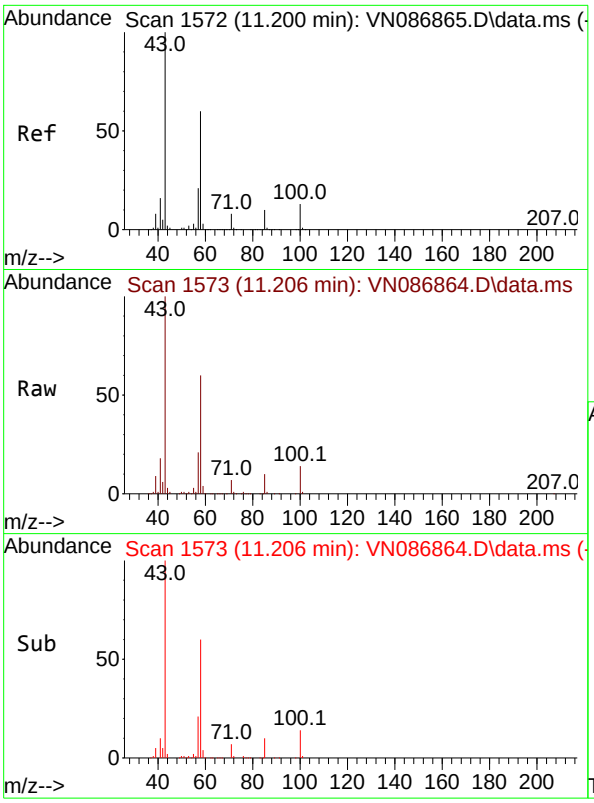


#58
2-Chloroethyl Vinyl ether
Concen: 103.426 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 63 Resp: 278986

Ion	Ratio	Lower	Upper
63	100		
106	28.1	23.0	34.6

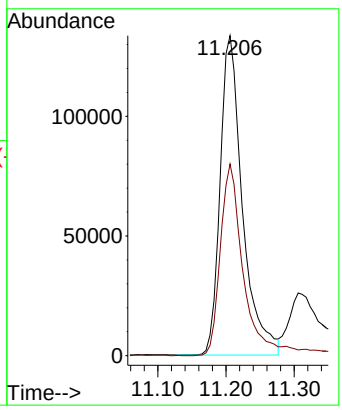




#59
2-Hexanone
Concen: 103.803 ug/l
RT: 11.206 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 43 Resp: 30368

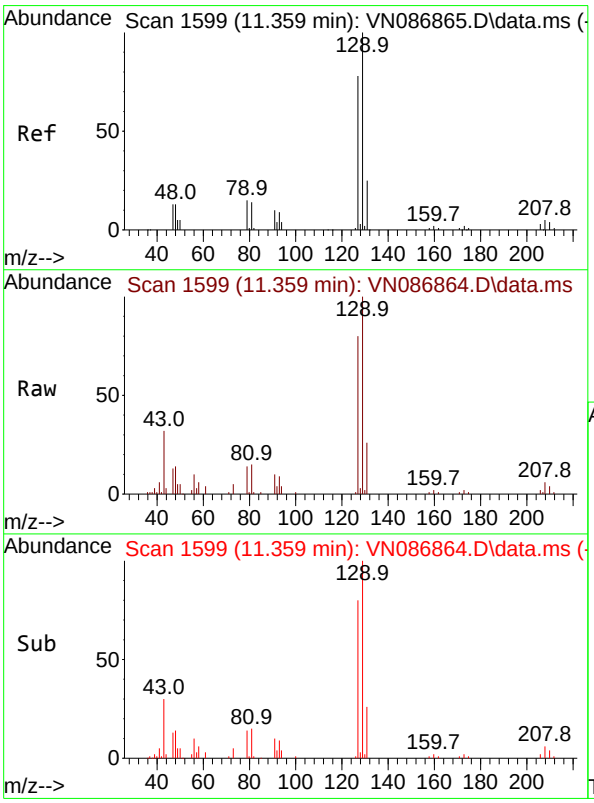
Ion	Ratio	Lower	Upper
43	100		
58	64.8	30.4	91.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

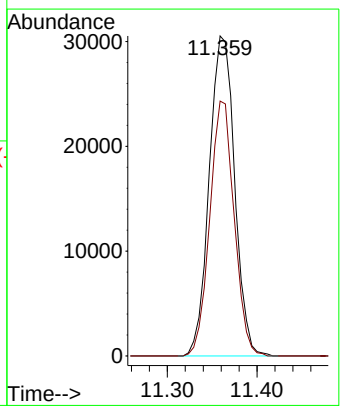
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

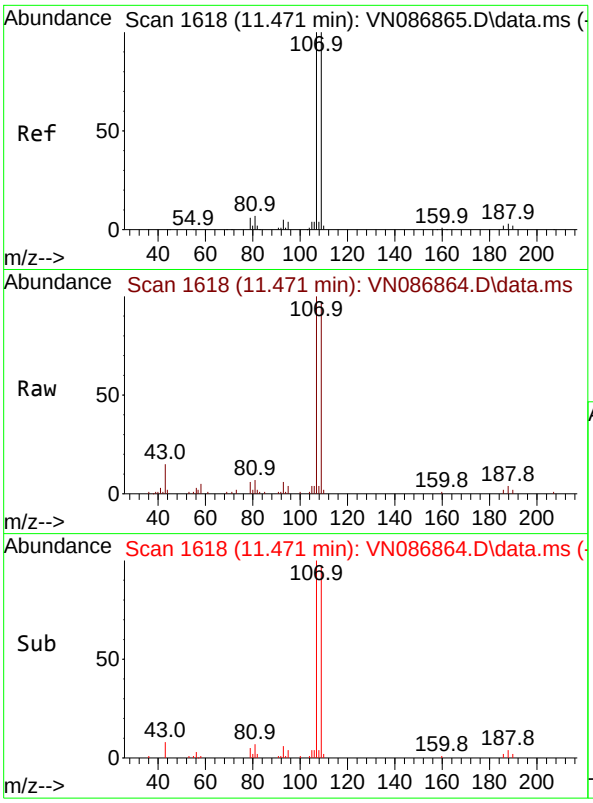


#60
Dibromochloromethane
Concen: 20.268 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:129 Resp: 59961

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.6	115.8

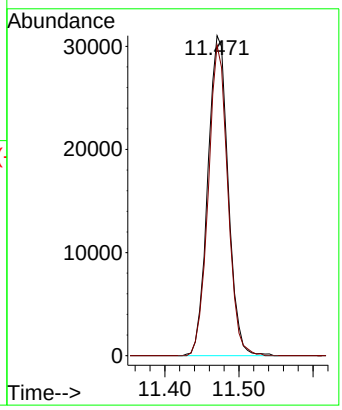




#61
1,2-Dibromoethane
Concen: 20.320 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:107 Resp: 5913

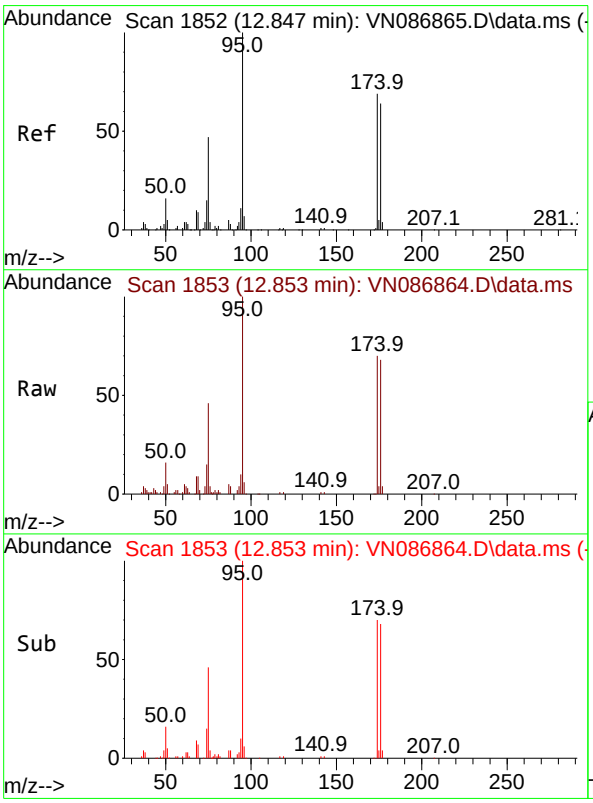
Ion	Ratio	Lower	Upper
107	100		
109	93.0	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

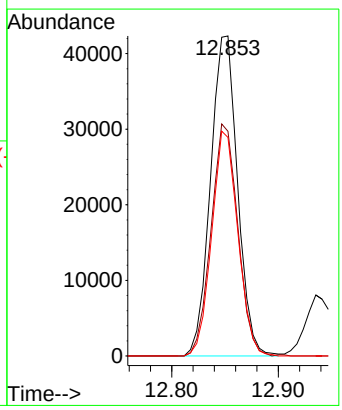
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

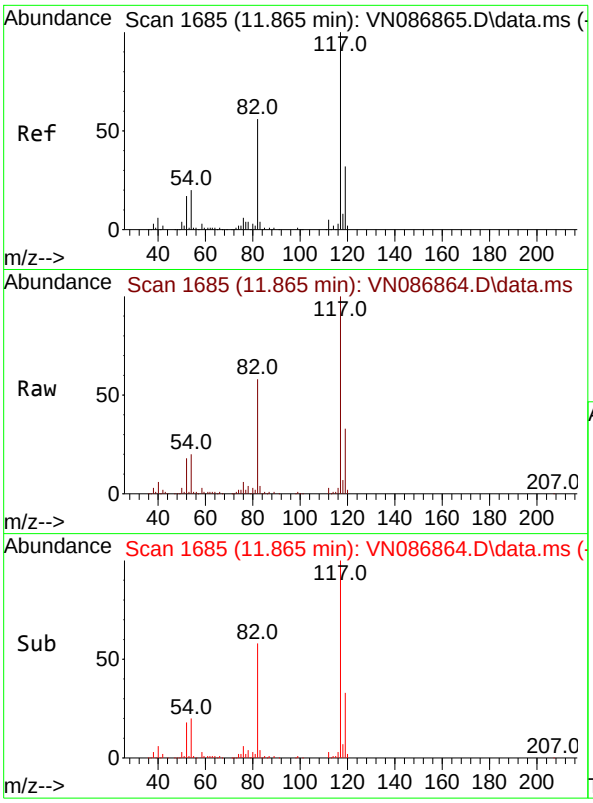


#62
4-Bromofluorobenzene
Concen: 20.474 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 95 Resp: 74622

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.8
176	68.0	0.0	132.6

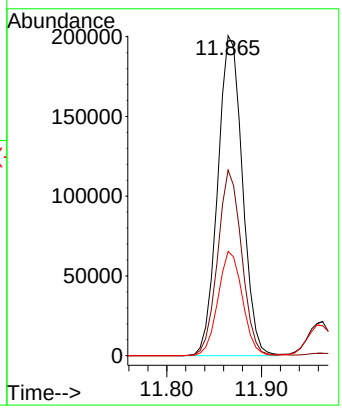




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:117 Resp: 36317

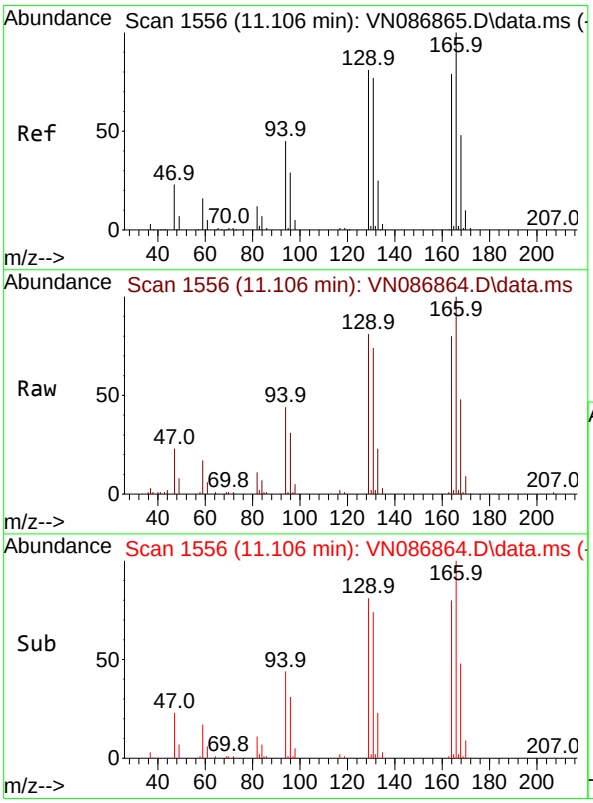
Ion	Ratio	Lower	Upper
117	100		
82	58.0	44.6	67.0
119	32.6	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

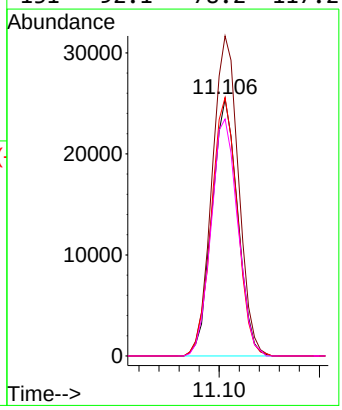
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

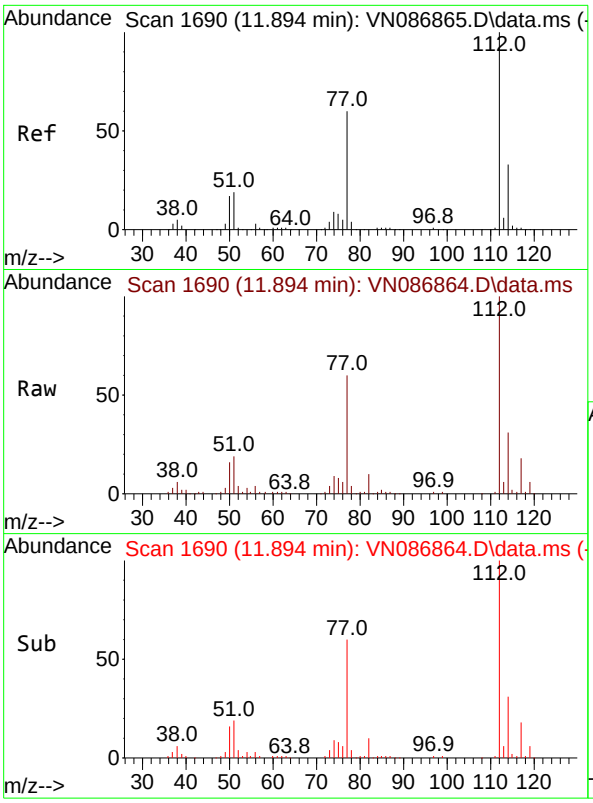


#64
Tetrachloroethene
Concen: 19.742 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:164 Resp: 45374

Ion	Ratio	Lower	Upper
164	100		
166	124.4	101.8	152.8
129	100.4	83.0	124.4
131	92.1	78.2	117.2





#65
Chlorobenzene
Concen: 20.076 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

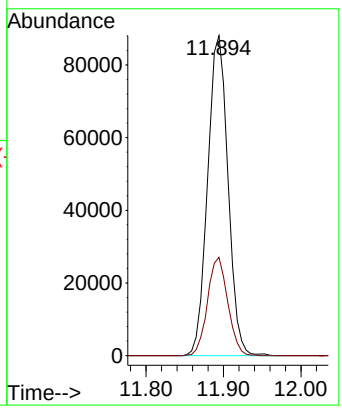
Tgt Ion:112 Resp: 16080

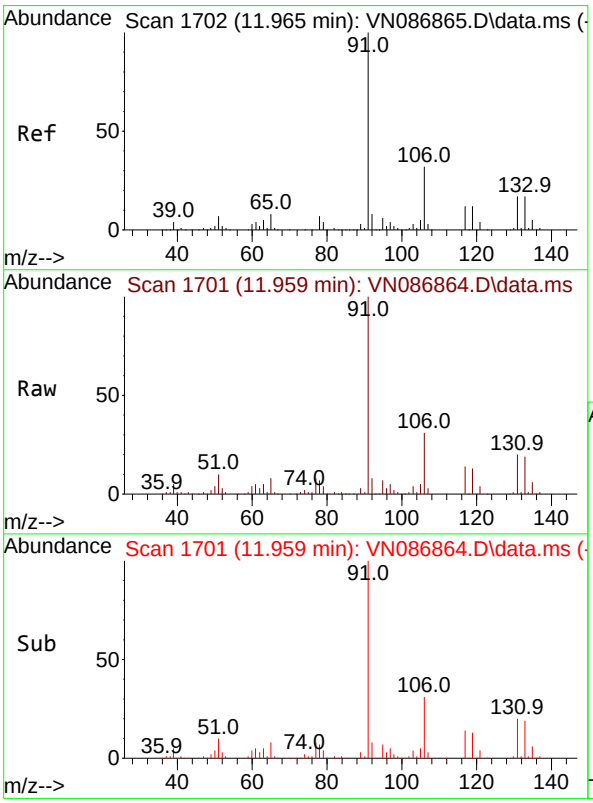
Ion	Ratio	Lower	Upper
112	100		
114	30.8	26.2	39.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

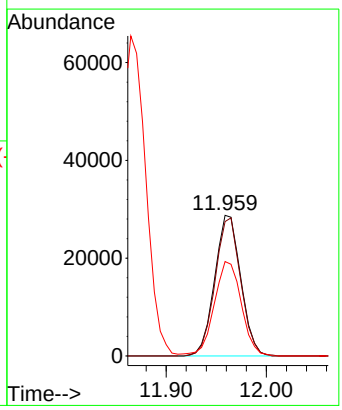


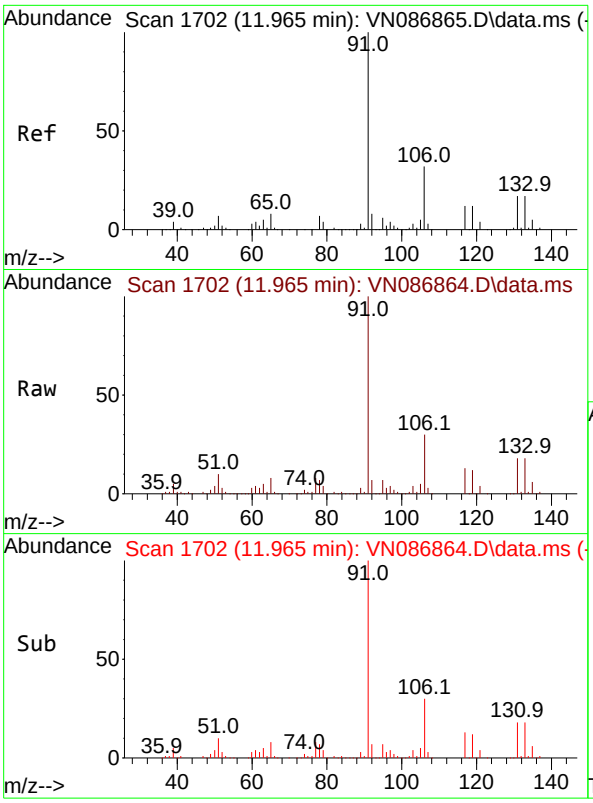


#66
1,1,1,2-Tetrachloroethane
Concen: 20.223 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:131 Resp: 52069

Ion	Ratio	Lower	Upper
131	100		
133	96.3	48.3	144.8
119	69.6	34.0	101.8





#67
Ethyl Benzene
Concen: 20.083 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

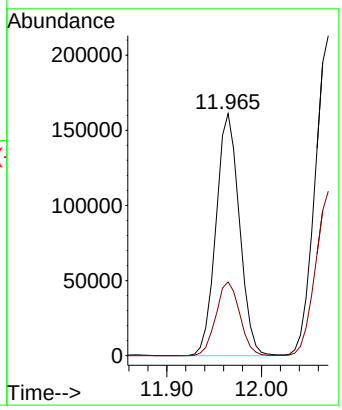
Tgt Ion: 91 Resp: 27708

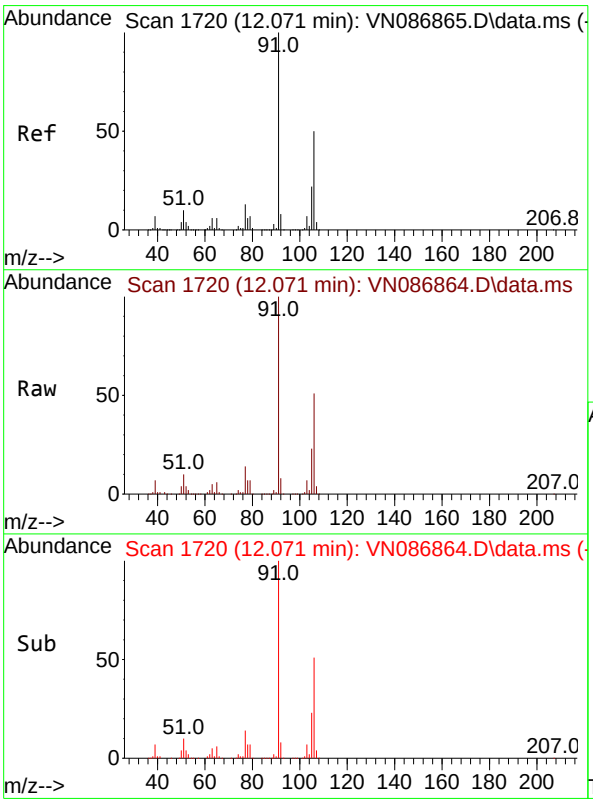
Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.4	38.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

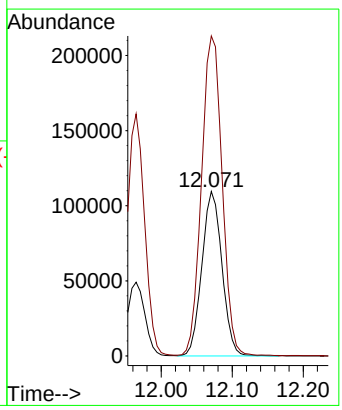


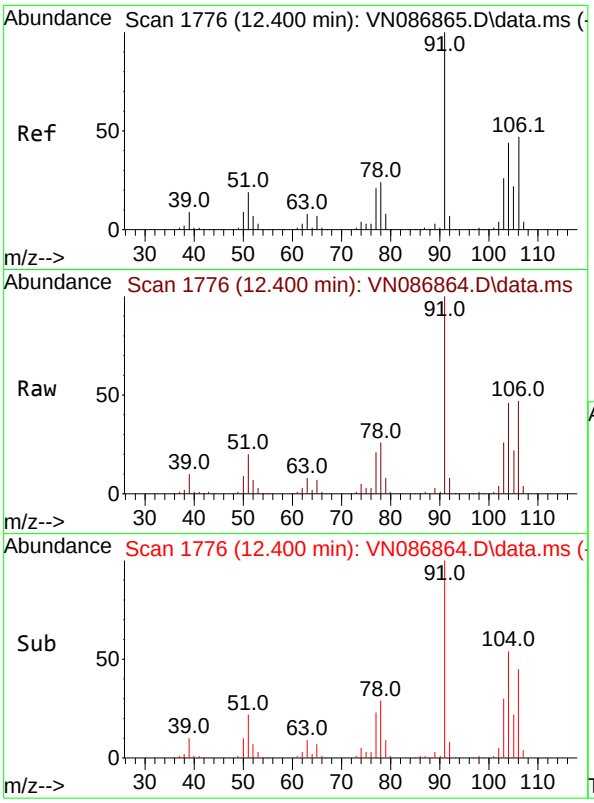


#68
m/p-Xylenes
Concen: 40.780 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:106 Resp: 215378

Ion	Ratio	Lower	Upper
106	100		
91	199.8	159.4	239.0

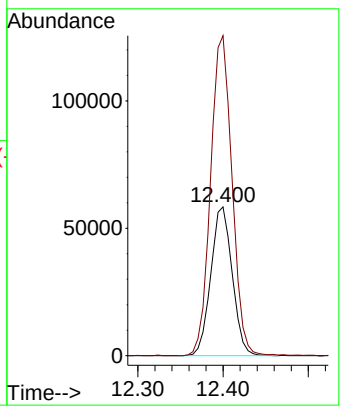




#69
o-Xylene
Concen: 20.175 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:106 Resp: 10205

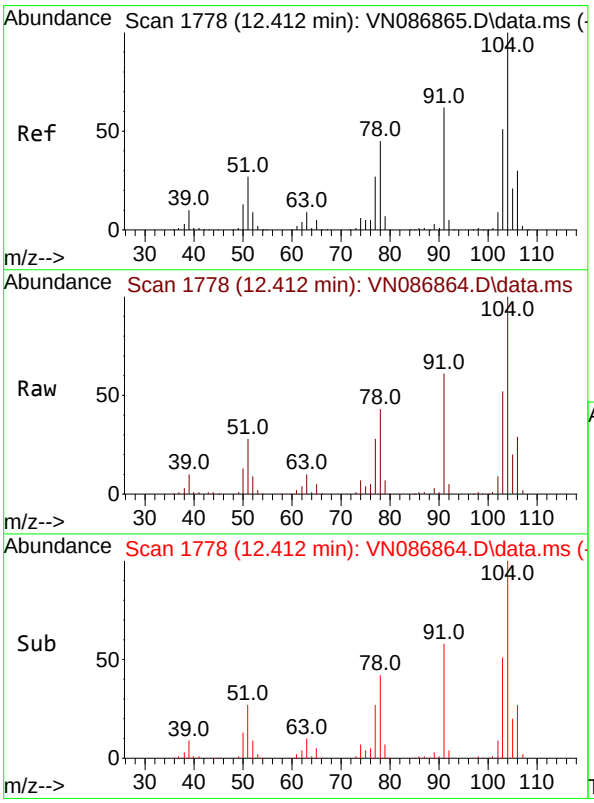
Ion	Ratio	Lower	Upper
106	100		
91	215.9	106.1	318.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

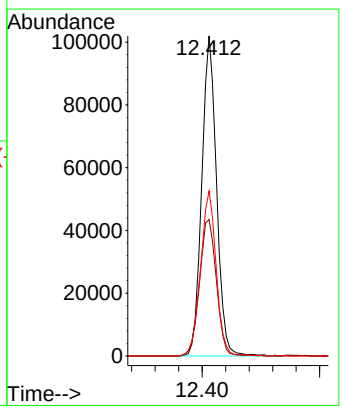
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

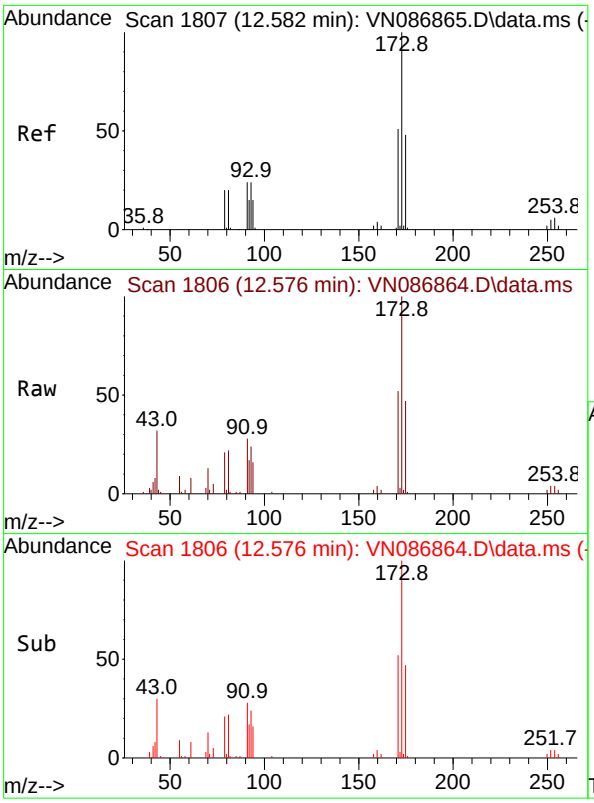


#70
Styrene
Concen: 20.572 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:104 Resp: 178061

Ion	Ratio	Lower	Upper
104	100		
78	48.3	38.5	57.7
103	54.4	43.1	64.7

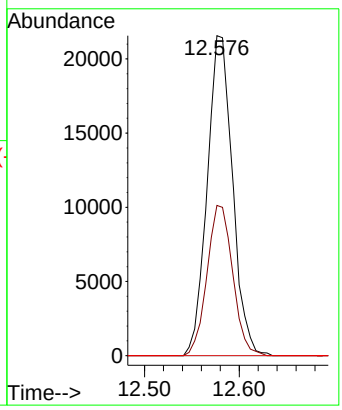




#71
Bromoform
Concen: 21.004 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:173 Resp: 4007

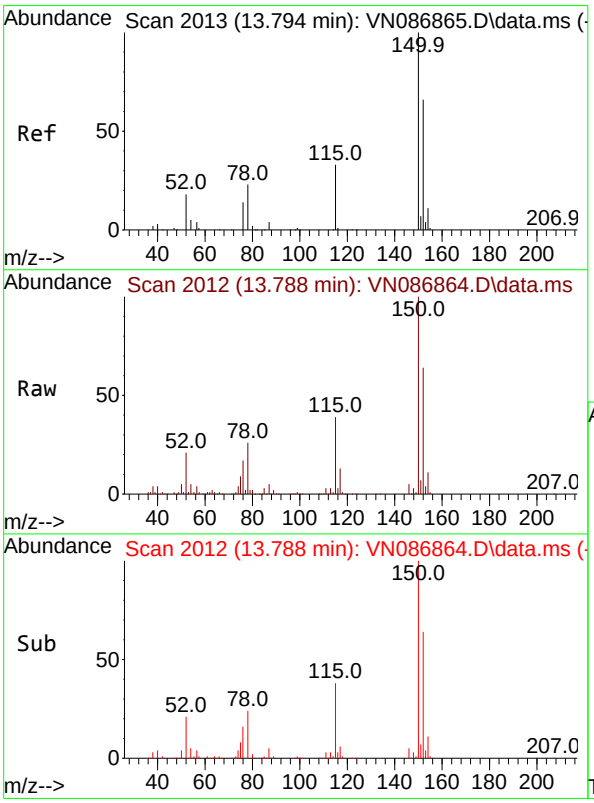
Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

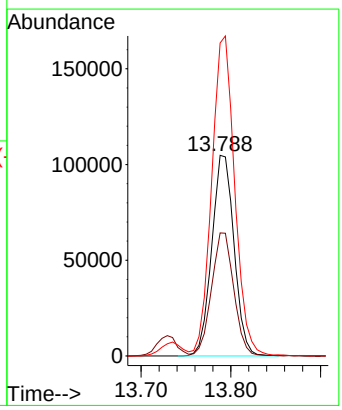
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

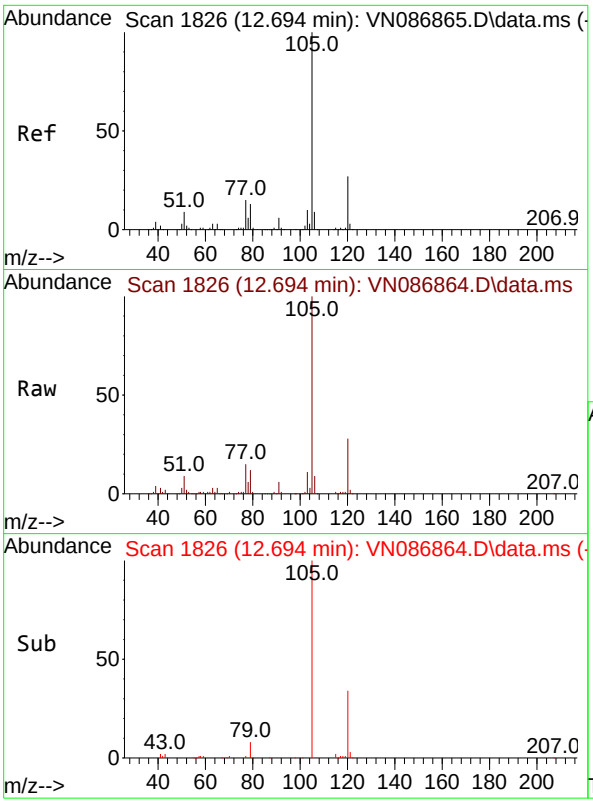


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:152 Resp: 181178

Ion	Ratio	Lower	Upper
152	100		
115	61.4	30.1	90.5
150	164.5	0.0	345.0

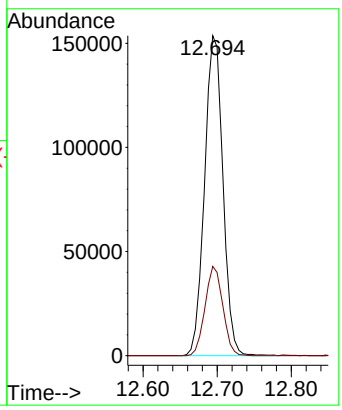




#73
Isopropylbenzene
Concen: 20.035 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:105 Resp: 26444

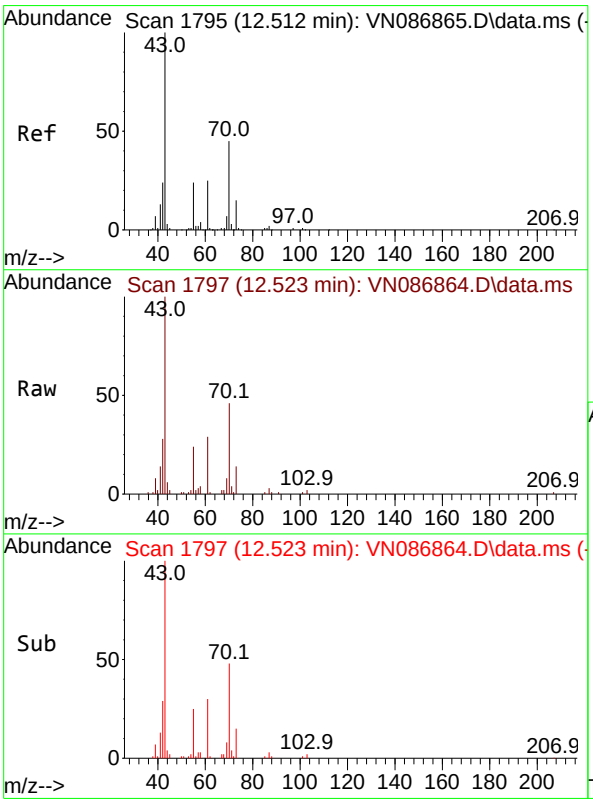
Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

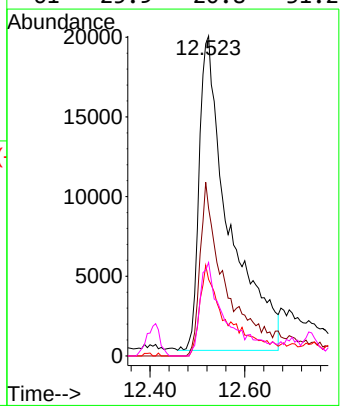
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

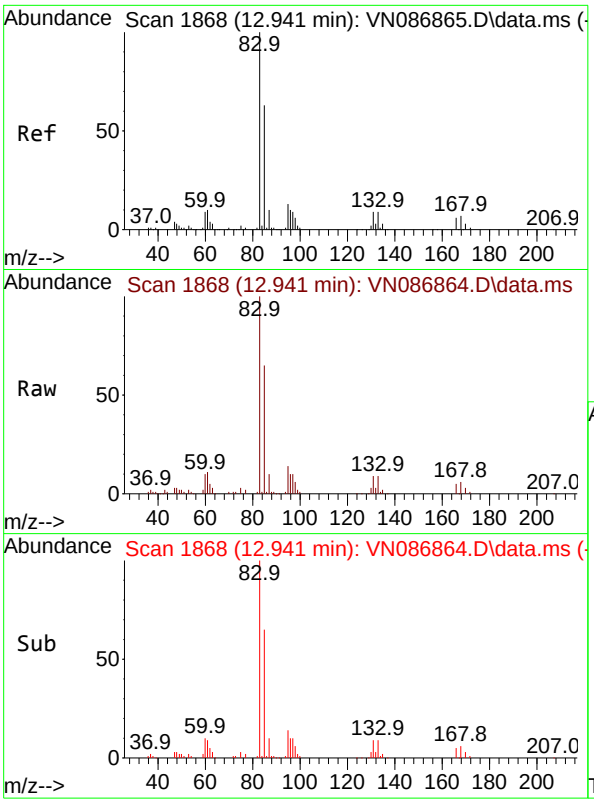


#74
N-amyl acetate
Concen: 19.633 ug/l
RT: 12.523 min Scan# 1797
Delta R.T. 0.012 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 43 Resp: 86003

Ion	Ratio	Lower	Upper
43	100		
70	47.7	37.6	56.4
55	26.6	19.0	28.6
61	25.9	20.8	31.2

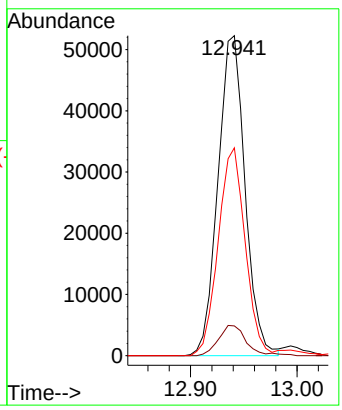




#75
1,1,2,2-Tetrachloroethane
Concen: 20.634 ug/l
RT: 12.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 83 Resp: 9226

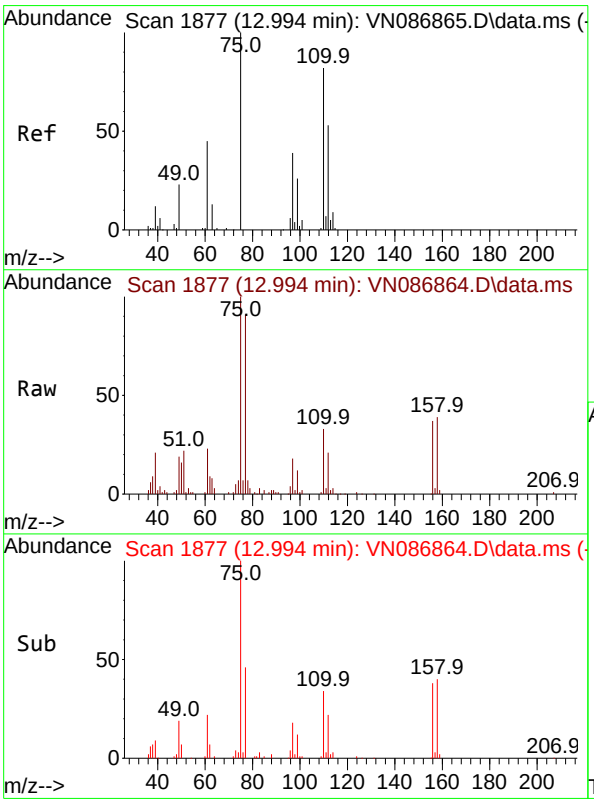
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	64.5	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

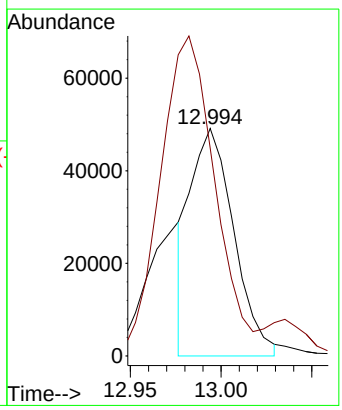
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

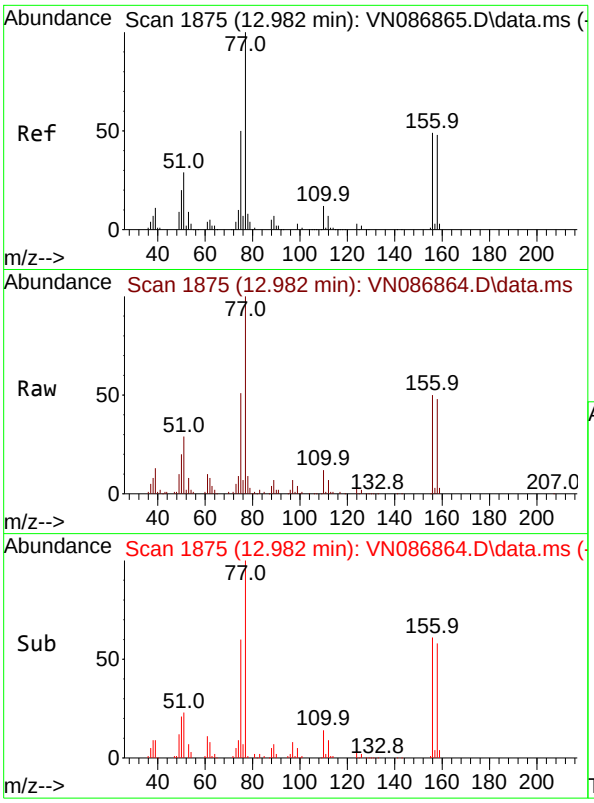


#76
1,2,3-Trichloropropane
Concen: 18.945 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 75 Resp: 81846

Ion	Ratio	Lower	Upper
75	100		
77	176.5	79.3	237.9

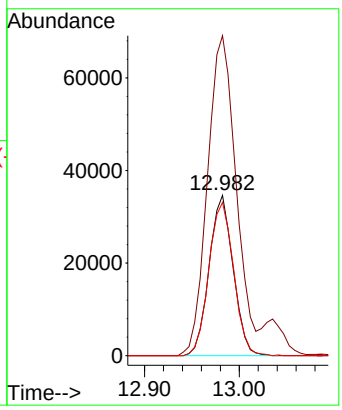




#77
Bromobenzene
Concen: 20.111 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:156 Resp: 6087

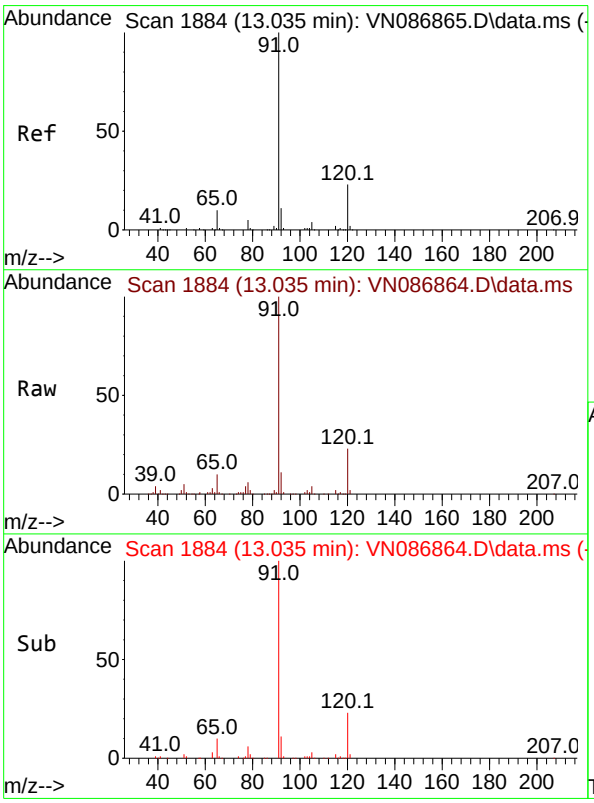
Ion	Ratio	Lower	Upper
156	100		
77	237.3	117.7	353.1
158	99.0	48.1	144.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

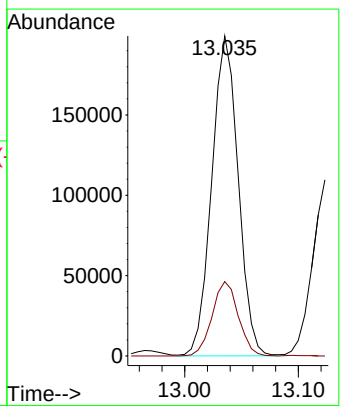
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

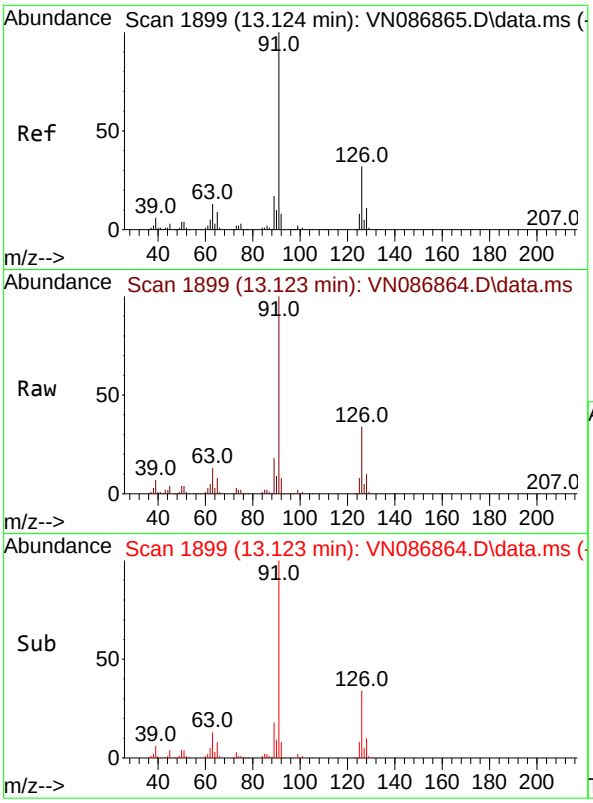


#78
n-propylbenzene
Concen: 20.102 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 91 Resp: 322436

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.4	34.2

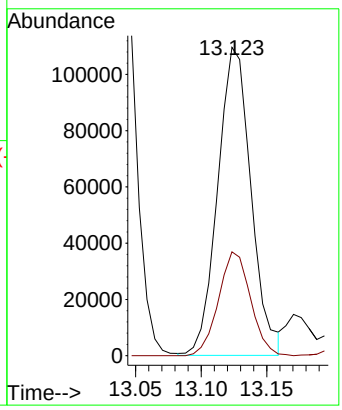




#79
2-Chlorotoluene
Concen: 20.144 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 91 Resp: 19377

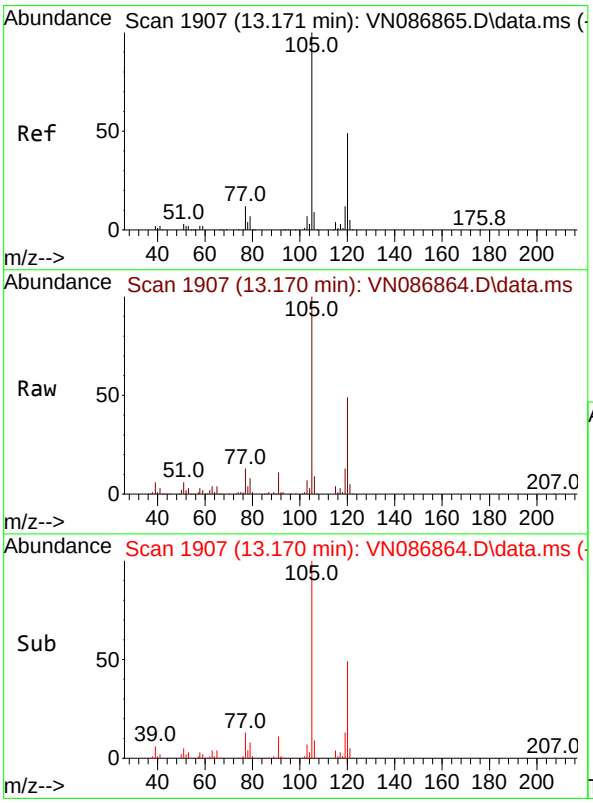
Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.2	48.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

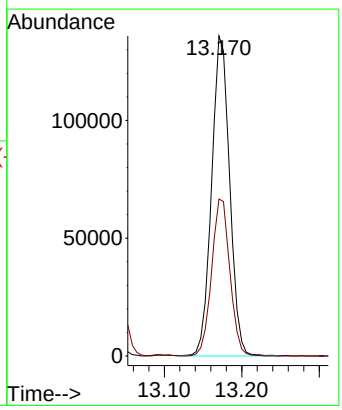
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

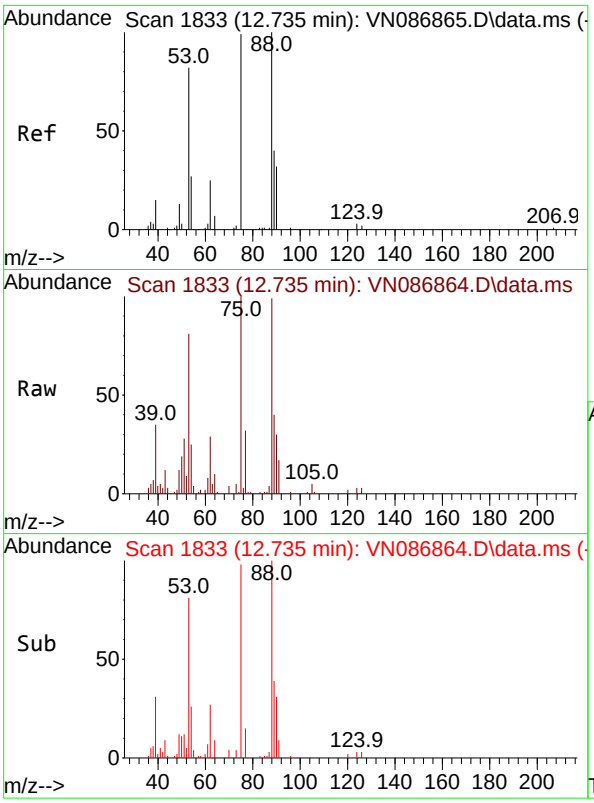


#80
1,3,5-Trimethylbenzene
Concen: 20.183 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:105 Resp: 219937

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.9	74.6

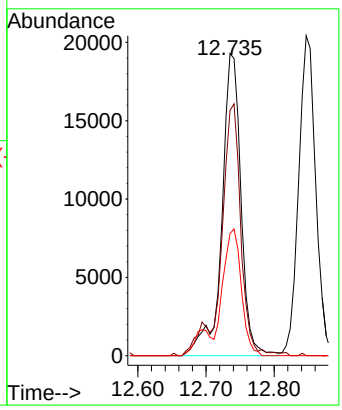




#81
trans-1,4-Dichloro-2-butene
Concen: 20.209 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 75 Resp: 3780

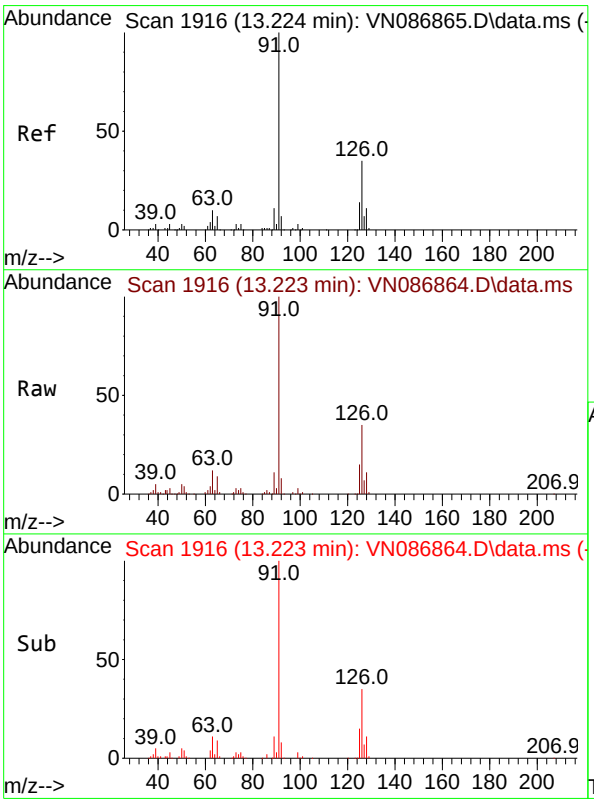
Ion	Ratio	Lower	Upper
75	100		
53	77.3	66.6	99.8
89	39.6	36.7	55.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

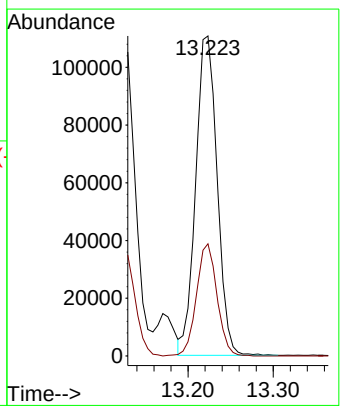
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

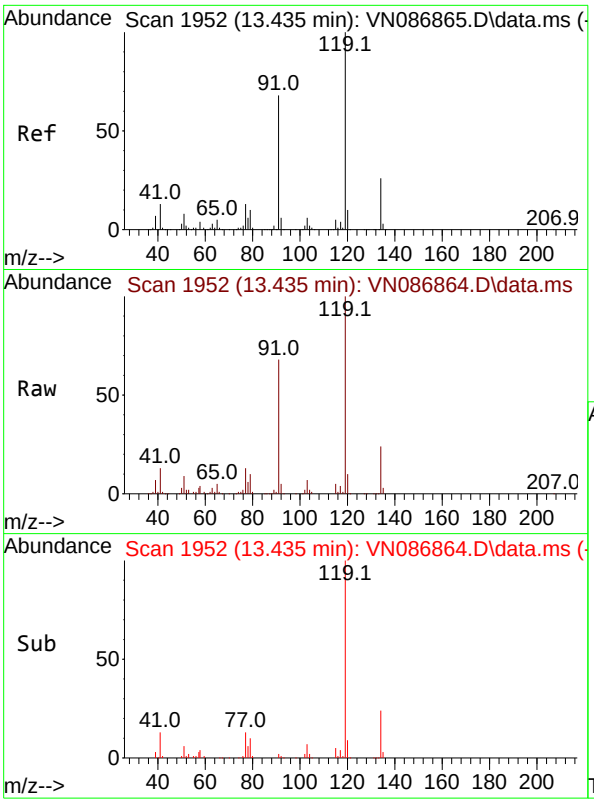


#82
4-Chlorotoluene
Concen: 19.885 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 91 Resp: 193544

Ion	Ratio	Lower	Upper
91	100		
126	33.7	16.7	50.1

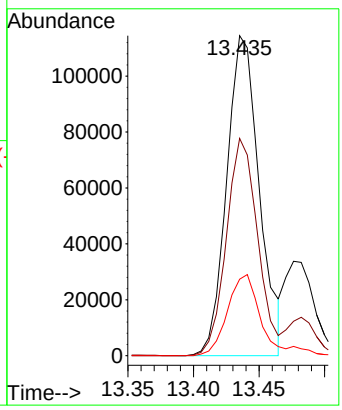




#83
tert-Butylbenzene
Concen: 19.880 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:119 Resp: 19830

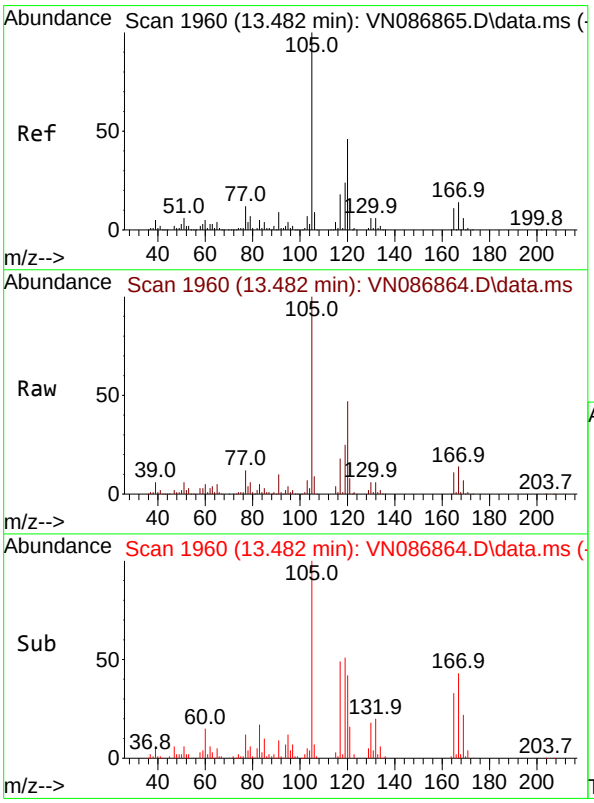
Ion	Ratio	Lower	Upper
119	100		
91	65.2	32.1	96.5
134	26.5	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

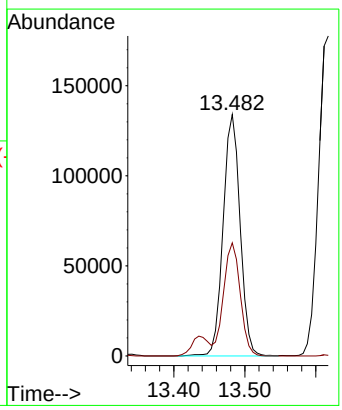
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

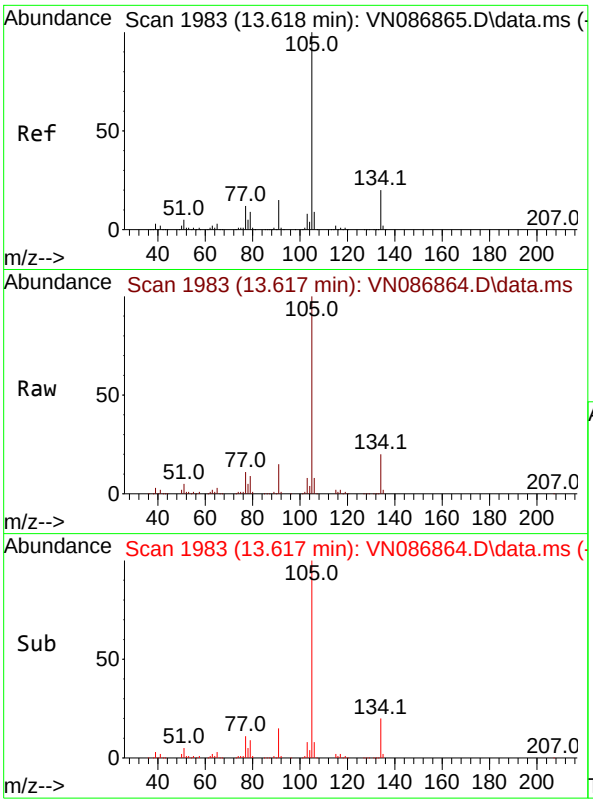


#84
1,2,4-Trimethylbenzene
Concen: 20.315 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:105 Resp: 221990

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.2	69.6

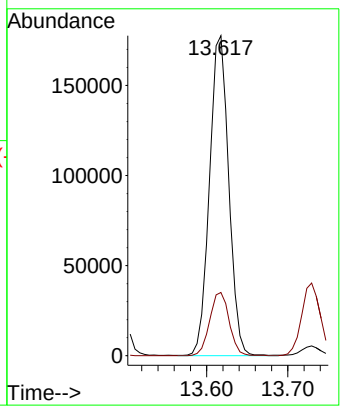




#85
sec-Butylbenzene
Concen: 20.196 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:105 Resp: 29256

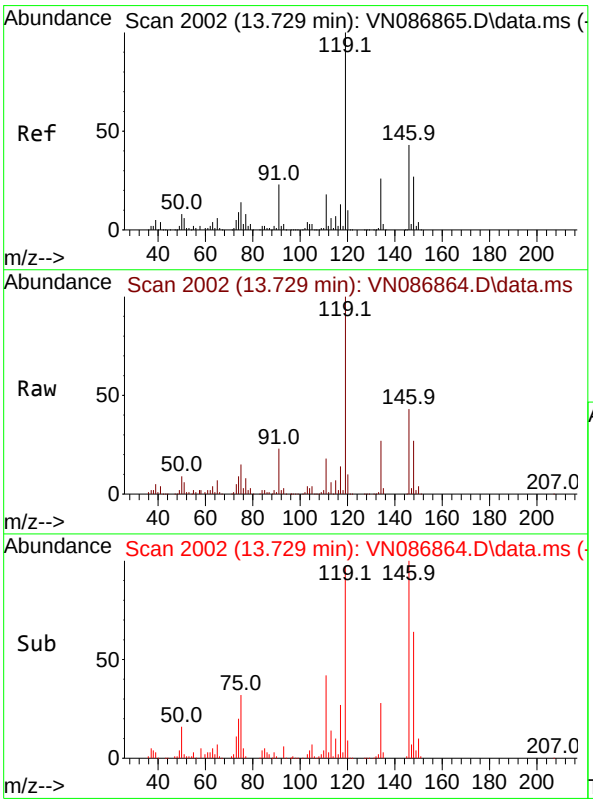
Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	30.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

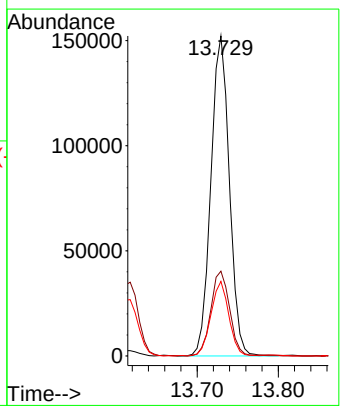
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

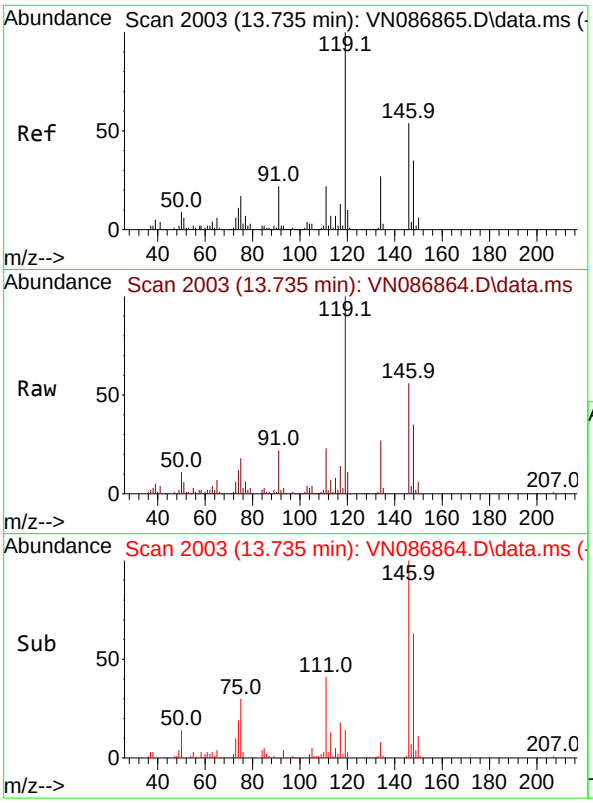


#86
p-Isopropyltoluene
Concen: 20.099 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:119 Resp: 240682

Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.5	40.4
91	22.7	11.5	34.4

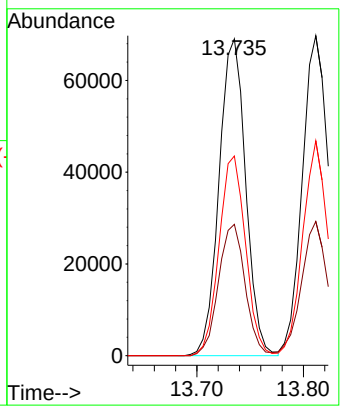




#87
1,3-Dichlorobenzene
Concen: 20.166 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:146 Resp: 12009

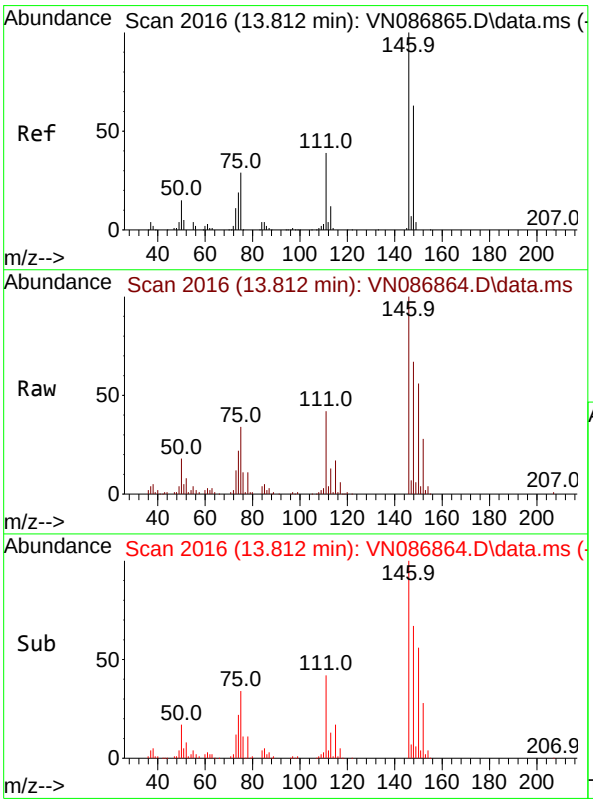
Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.9	62.8
148	62.5	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

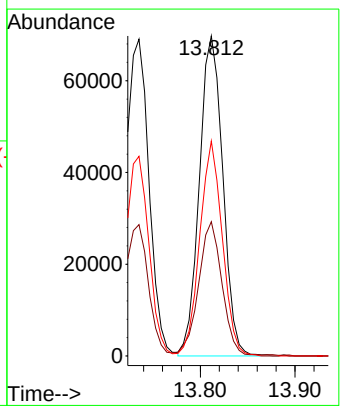
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

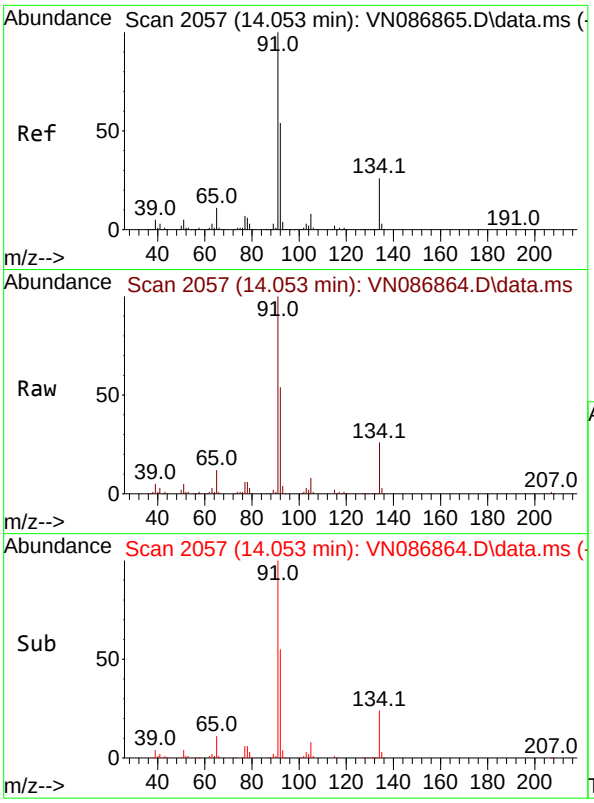


#88
1,4-Dichlorobenzene
Concen: 19.780 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:146 Resp: 120102

Ion	Ratio	Lower	Upper
146	100		
111	42.5	19.9	59.7
148	64.7	31.8	95.4

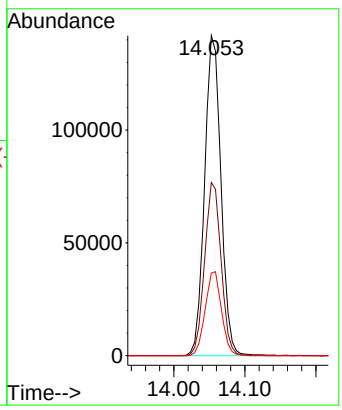




#89
n-Butylbenzene
Concen: 19.617 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 91 Resp: 22753

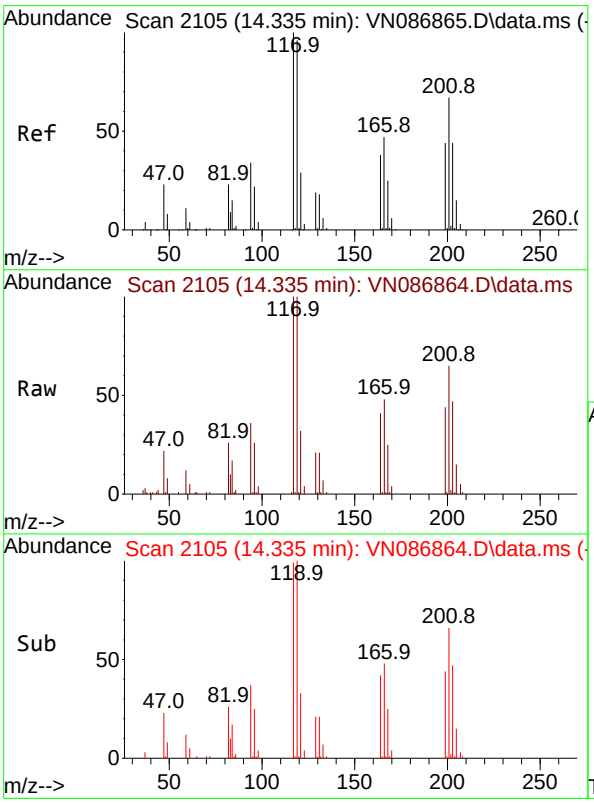
Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.5	82.4
134	26.2	13.0	39.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

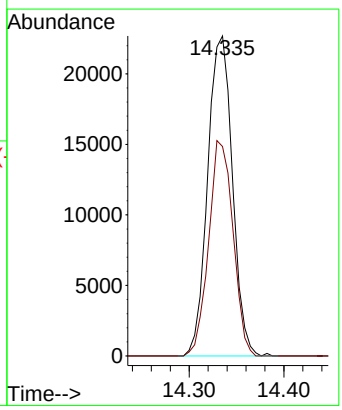
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

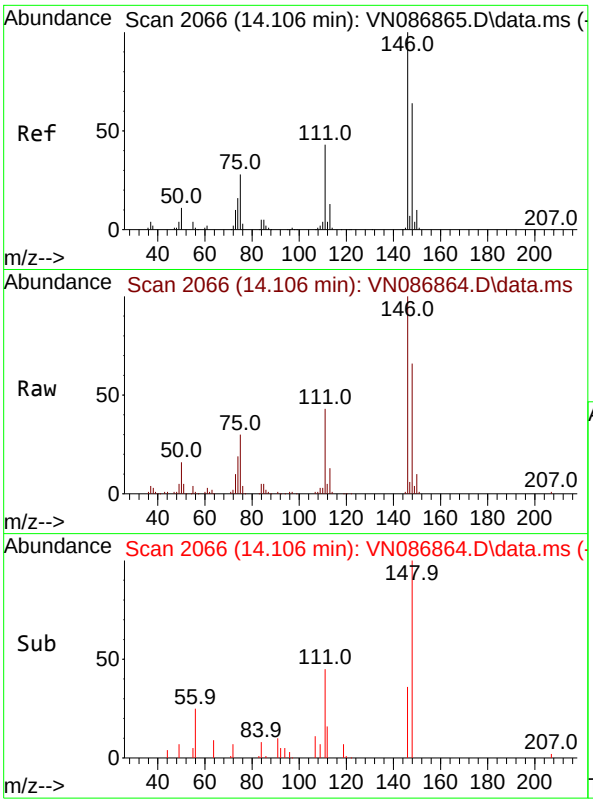


#90
Hexachloroethane
Concen: 20.299 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:117 Resp: 41202

Ion	Ratio	Lower	Upper
117	100		
201	66.2	33.2	99.6

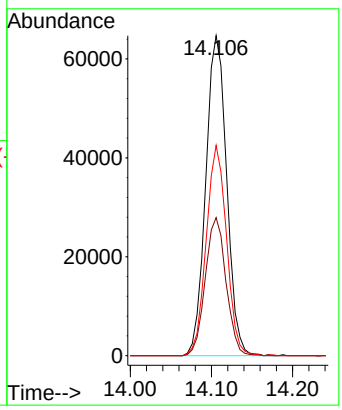




#91
1,2-Dichlorobenzene
Concen: 20.212 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:146 Resp: 11564

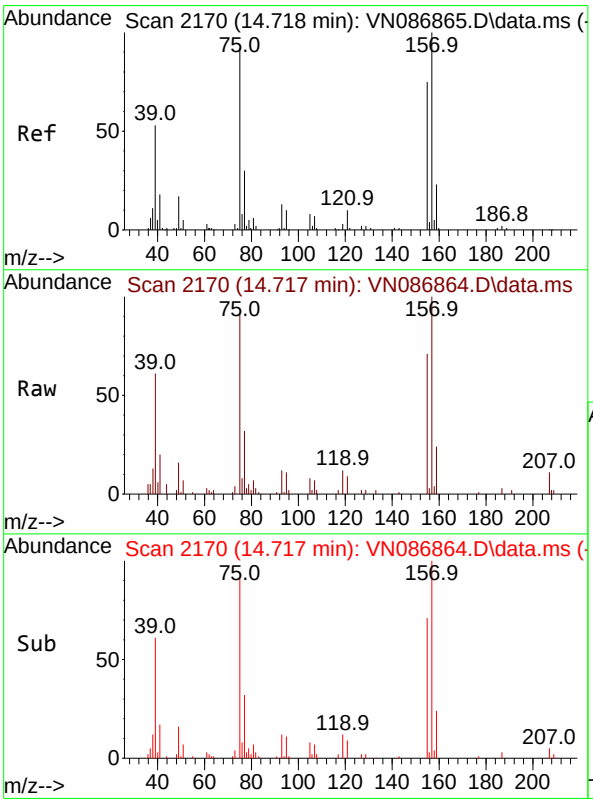
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.6	64.6
148	63.9	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

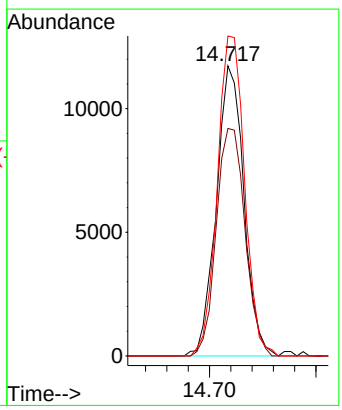
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

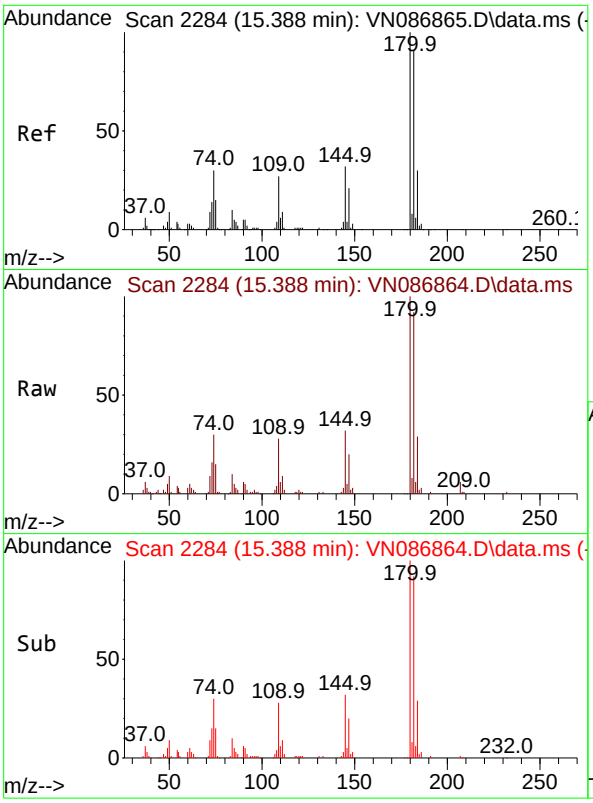


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.661 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 75 Resp: 21025

Ion	Ratio	Lower	Upper
75	100		
155	81.8	41.1	123.4
157	109.0	52.7	158.1

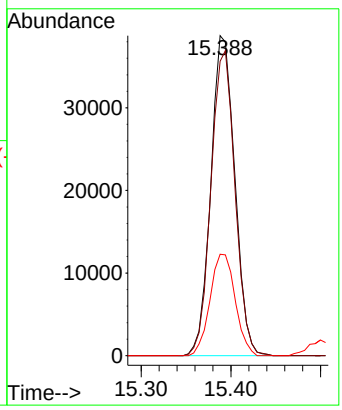




#93
1,2,4-Trichlorobenzene
Concen: 19.659 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:180 Resp: 7182

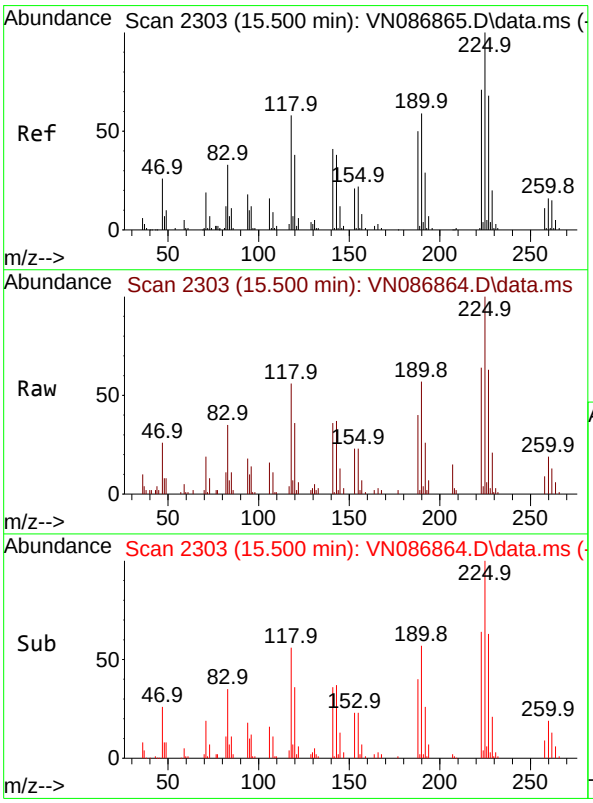
Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.9	140.7
145	33.3	16.0	47.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

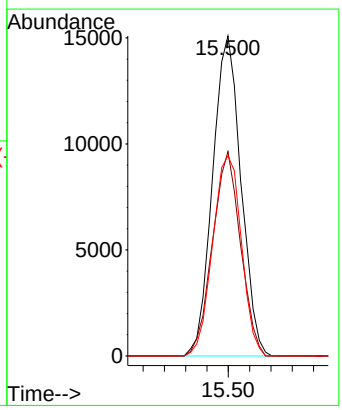
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

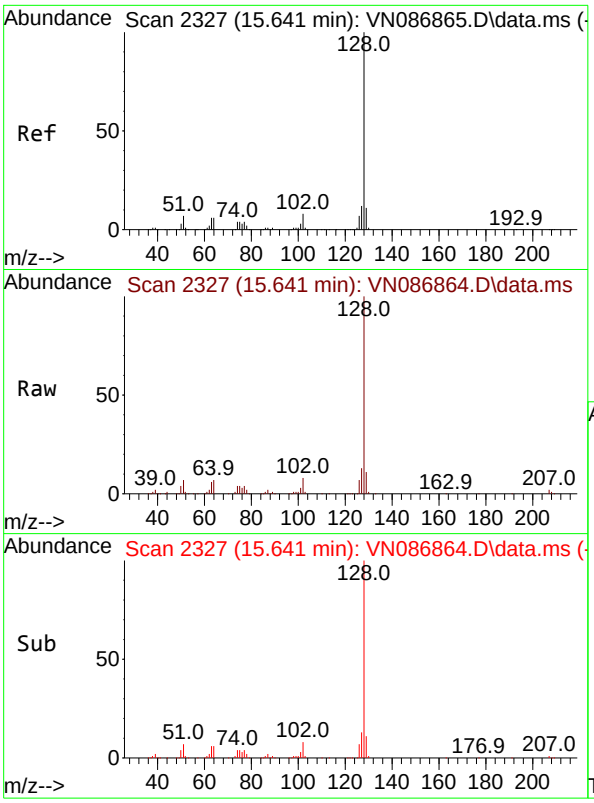


#94
Hexachlorobutadiene
Concen: 20.486 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:225 Resp: 27887

Ion	Ratio	Lower	Upper
225	100		
223	63.0	33.5	100.4
227	63.3	31.1	93.5

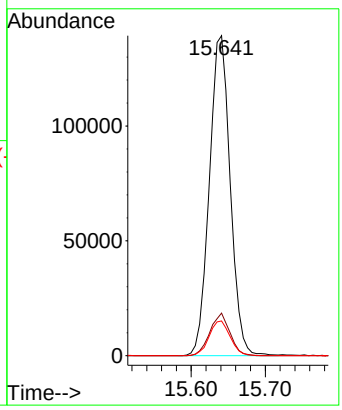




#95
Naphthalene
Concen: 20.043 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:128 Resp: 27258

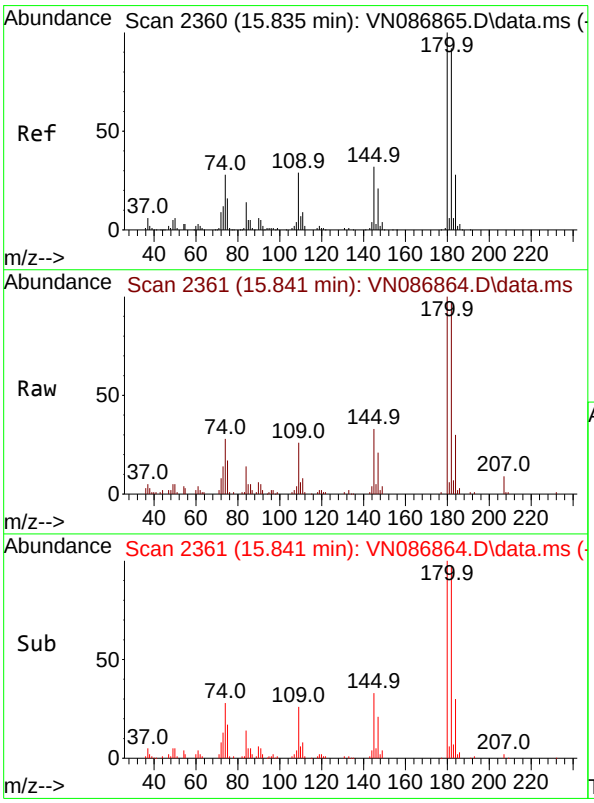
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

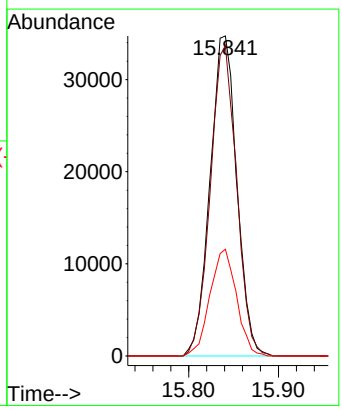
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.815 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:180 Resp: 71929

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.0	141.0
145	33.1	16.6	49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086865.D
Acq On : 06 Jun 2025 14:03
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 07 01:57:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.236	168	207354	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	378587	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	332766	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167532	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	103736	37.366	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 74.740%			
35) Dibromofluoromethane	8.171	113	83058	37.020	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 74.040%#			
50) Toluene-d8	10.571	98	326105	36.716	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 73.440%#			
62) 4-Bromofluorobenzene	12.847	95	122965	37.264	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 74.520%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	103958	50.283	ug/l	100
3) Chloromethane	2.395	50	123866	46.397	ug/l	100
4) Vinyl Chloride	2.554	62	132783	48.215	ug/l	100
5) Bromomethane	2.995	94	73974	47.999	ug/l	100
6) Chloroethane	3.154	64	84505	47.504	ug/l	100
7) Trichlorofluoromethane	3.524	101	172860	48.041	ug/l	100
8) Diethyl Ether	3.983	74	75193	47.963	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.395	101	107695	47.640	ug/l	100
10) Methyl Iodide	4.606	142	141678	48.346	ug/l	100
11) Tert butyl alcohol	5.548	59	182315	242.020	ug/l	100
12) 1,1-Dichloroethene	4.359	96	110549	47.900	ug/l	100
13) Acrolein	4.201	56	47026	197.217	ug/l	100
14) Allyl chloride	5.042	41	179313	46.848	ug/l	100
15) Acrylonitrile	5.742	53	421941	239.638	ug/l	100
16) Acetone	4.448	43	333857	226.765	ug/l	100
17) Carbon Disulfide	4.730	76	295753	46.328	ug/l	100
18) Methyl Acetate	5.042	43	204538	47.673	ug/l	100
19) Methyl tert-butyl Ether	5.812	73	400775	47.960	ug/l	100
20) Methylene Chloride	5.295	84	125498	45.531	ug/l	100
21) trans-1,2-Dichloroethene	5.806	96	117660	45.822	ug/l	100
22) Diisopropyl ether	6.689	45	384939	47.711	ug/l	100
23) Vinyl Acetate	6.618	43	1649023	241.910	ug/l	100
24) 1,1-Dichloroethane	6.583	63	220477	47.485	ug/l	100
25) 2-Butanone	7.494	43	571221	238.693	ug/l	100
26) 2,2-Dichloropropane	7.500	77	187567	51.933	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	144911	47.189	ug/l	100
28) Bromochloromethane	7.824	49	96707	42.362	ug/l	100
29) Tetrahydrofuran	7.853	42	371357	238.210	ug/l	100
30) Chloroform	7.977	83	220093	47.467	ug/l	100
31) Cyclohexane	8.271	56	208105	46.217	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	185502	47.037	ug/l	100
36) 1,1-Dichloropropene	8.377	75	158341	47.362	ug/l	100
37) Ethyl Acetate	7.577	43	203091	47.720	ug/l	100
38) Carbon Tetrachloride	8.371	117	154677	47.126	ug/l	100
39) Methylcyclohexane	9.606	83	215849	47.126	ug/l	100
40) Benzene	8.612	78	509334	46.590	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086865.D
Acq On : 06 Jun 2025 14:03
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 07 01:57:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.789	41	114727	48.000	ug/l		100
42) 1,2-Dichloroethane	8.677	62	155713	46.960	ug/l		100
43) Isopropyl Acetate	8.694	43	322741	47.248	ug/l		100
44) Trichloroethene	9.359	130	123847	47.776	ug/l		100
45) 1,2-Dichloropropane	9.630	63	125673	47.251	ug/l		100
46) Dibromomethane	9.718	93	83811	47.442	ug/l		100
47) Bromodichloromethane	9.894	83	173200	47.651	ug/l		100
48) Methyl methacrylate	9.683	41	149019	47.399	ug/l		100
49) 1,4-Dioxane	9.700	88	59060	1032.607	ug/l	#	100
51) 4-Methyl-2-Pentanone	10.447	43	1017688	247.484	ug/l		100
52) Toluene	10.635	92	316219	47.331	ug/l		100
53) t-1,3-Dichloropropene	10.841	75	197475	48.587	ug/l		100
54) cis-1,3-Dichloropropene	10.318	75	208523	47.950	ug/l		100
55) 1,1,2-Trichloroethane	11.018	97	121969	47.445	ug/l		100
56) Ethyl methacrylate	10.882	69	210467	51.401	ug/l		100
57) 1,3-Dichloropropane	11.165	76	212243	47.593	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.165	63	519139	212.570	ug/l		100
59) 2-Hexanone	11.200	43	696567	262.977	ug/l		100
60) Dibromochloromethane	11.359	129	128715	48.056	ug/l		100
61) 1,2-Dibromoethane	11.471	107	124522	47.258	ug/l		100
64) Tetrachloroethene	11.106	164	97679	46.382	ug/l		100
65) Chlorobenzene	11.894	112	340439	46.386	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.965	131	112333	47.615	ug/l		100
67) Ethyl Benzene	11.965	91	597593	47.271	ug/l		100
68) m/p-Xylenes	12.071	106	466620	96.424	ug/l		100
69) o-Xylene	12.400	106	224299	48.395	ug/l		100
70) Styrene	12.412	104	386596	48.745	ug/l		100
71) Bromoform	12.582	173	88127	50.415	ug/l	#	100
73) Isopropylbenzene	12.694	105	573905	47.023	ug/l		100
74) N-amyl acetate	12.512	43	212064	52.353	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.941	83	197360	47.732	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	196473m	49.183	ug/l		
77) Bromobenzene	12.982	156	132381	47.296	ug/l		100
78) n-propylbenzene	13.035	91	705524	47.567	ug/l		100
79) 2-Chlorotoluene	13.124	91	419986	47.216	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	485499	48.181	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	79732	46.089	ug/l		100
82) 4-Chlorotoluene	13.224	91	424066	47.117	ug/l		100
83) tert-Butylbenzene	13.435	119	438417	47.531	ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	488189	48.314	ug/l		100
85) sec-Butylbenzene	13.618	105	641523	47.893	ug/l		100
86) p-Isopropyltoluene	13.729	119	533366	48.169	ug/l		100
87) 1,3-Dichlorobenzene	13.735	146	260310	47.269	ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	263358	46.907	ug/l		100
89) n-Butylbenzene	14.053	91	512519	47.787	ug/l		100
90) Hexachloroethane	14.335	117	89896	47.896	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	251235	47.486	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.718	75	45535	46.049	ug/l		100
93) 1,2,4-Trichlorobenzene	15.388	180	162374	48.061	ug/l		100
94) Hexachlorobutadiene	15.500	225	60866	48.356	ug/l		100
95) Naphthalene	15.641	128	603088	47.958	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	159113	47.402	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086865.D
Acq On : 06 Jun 2025 14:03
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:57:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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

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

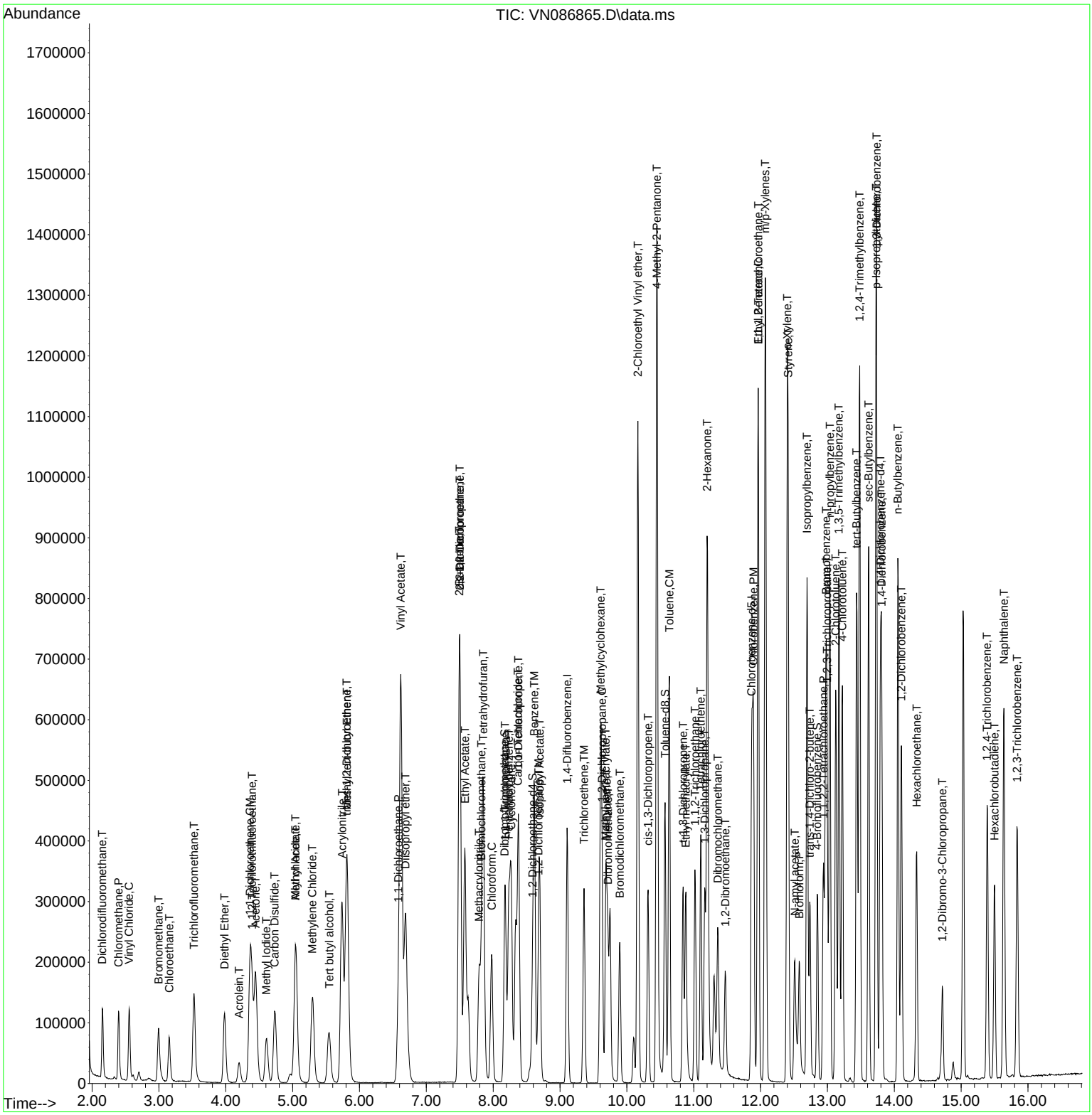
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086865.D
Acq On : 06 Jun 2025 14:03
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

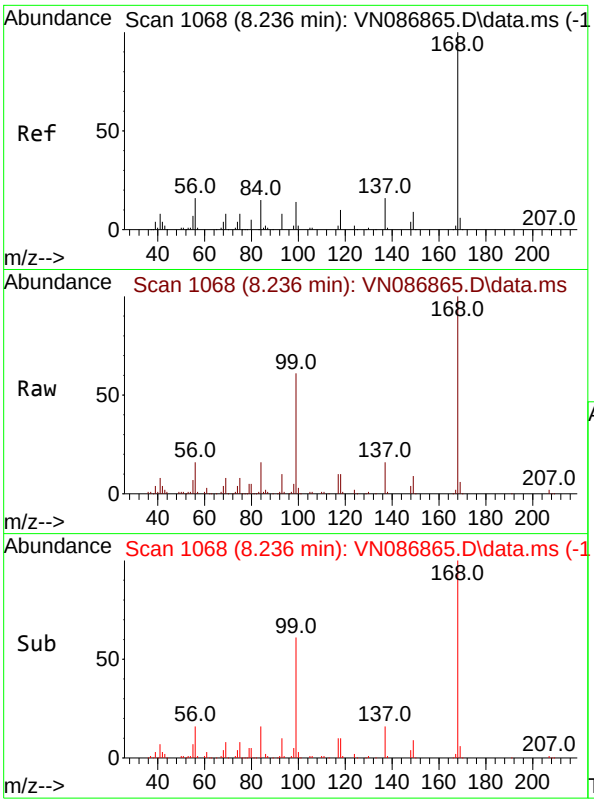
Quant Time: Jun 07 01:57:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

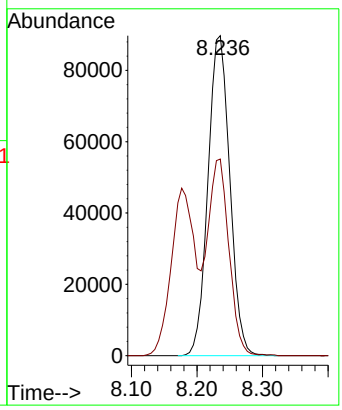




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:168 Resp: 20735

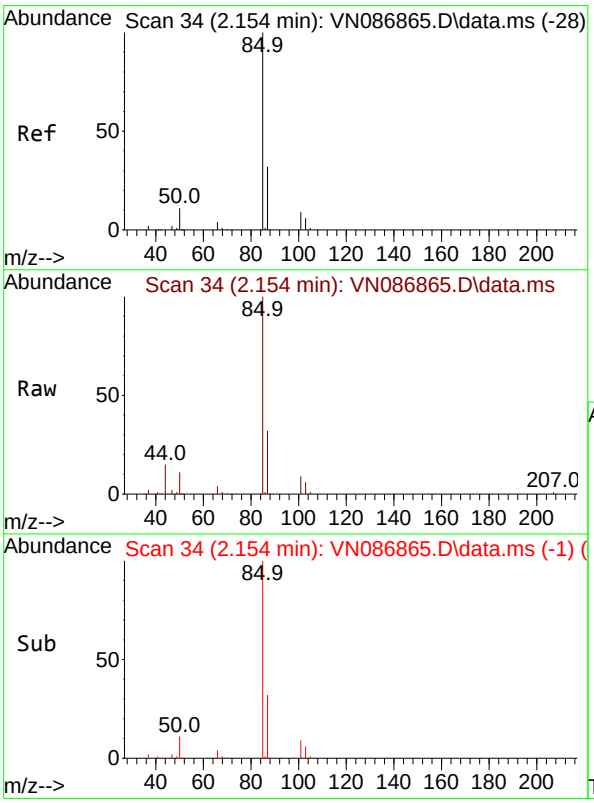
Ion	Ratio	Lower	Upper
168	100		
99	61.4	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

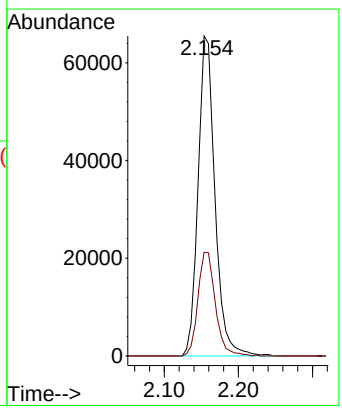
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

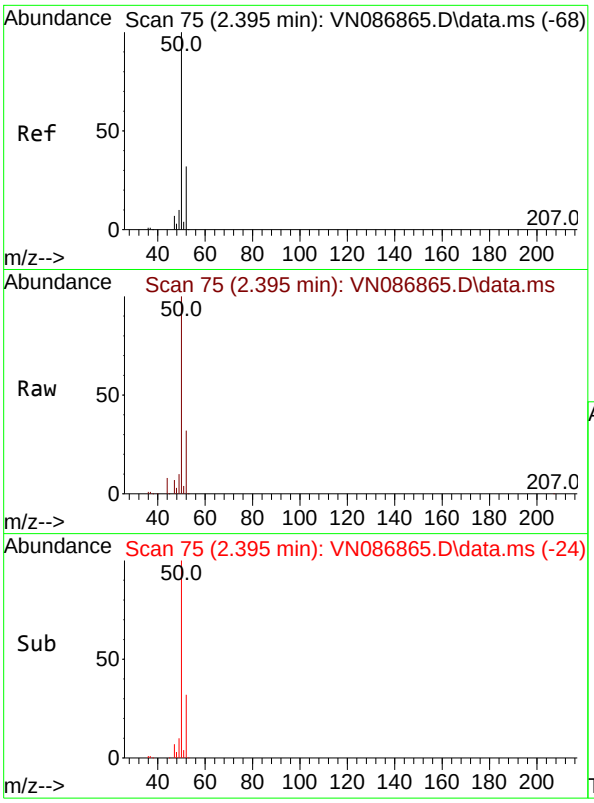


#2
Dichlorodifluoromethane
Concen: 50.283 ug/l
RT: 2.154 min Scan# 34
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 85 Resp: 103958

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.2	48.6

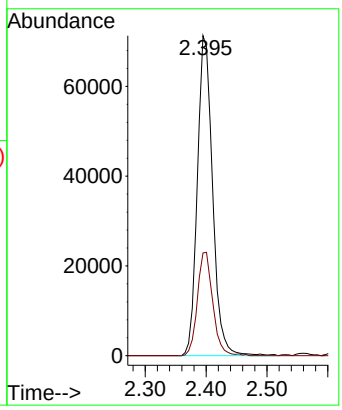




#3
Chloromethane
Concen: 46.397 ug/l
RT: 2.395 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 50 Resp: 12386

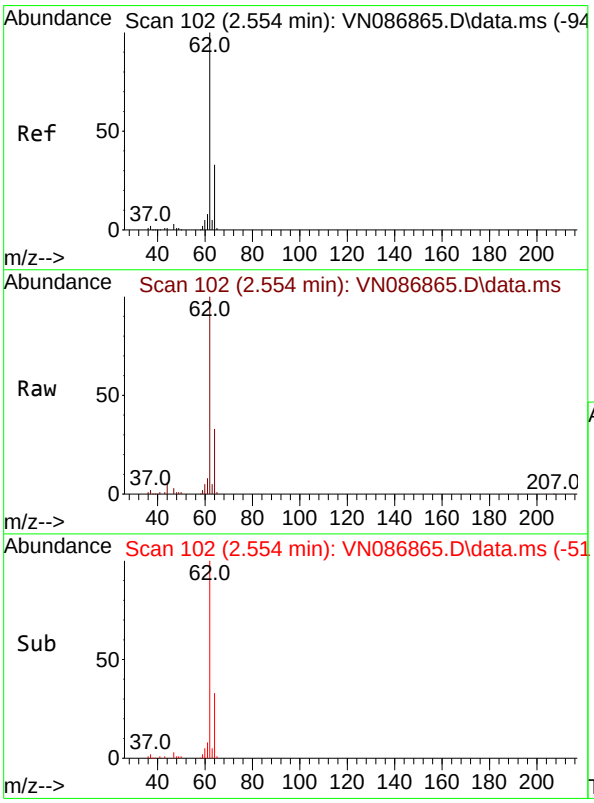
Ion	Ratio	Lower	Upper
50	100		
52	32.1	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

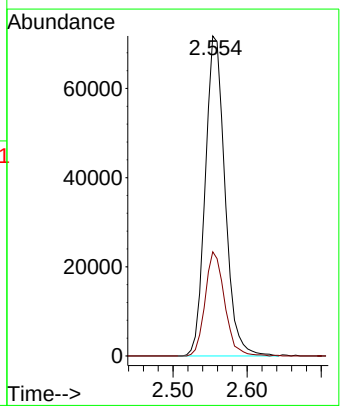
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

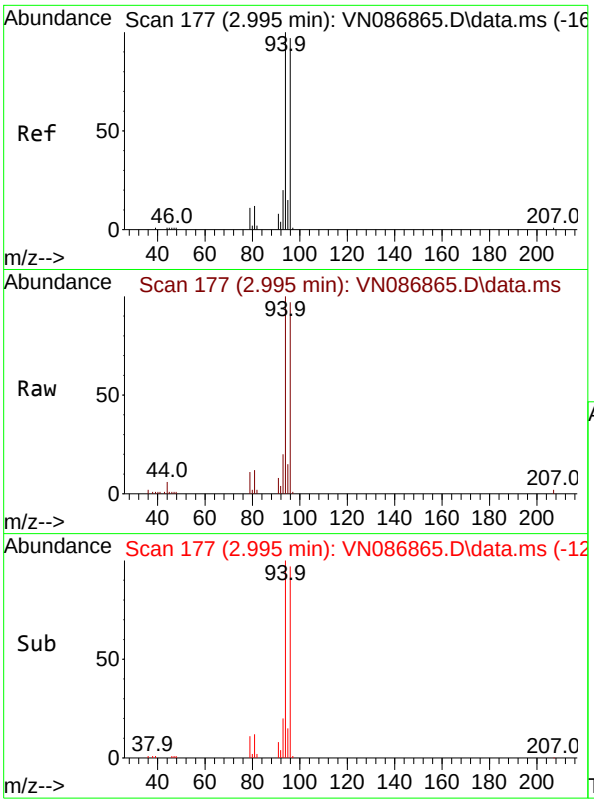


#4
Vinyl Chloride
Concen: 48.215 ug/l
RT: 2.554 min Scan# 102
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 62 Resp: 132783

Ion	Ratio	Lower	Upper
62	100		
64	32.5	26.0	39.0

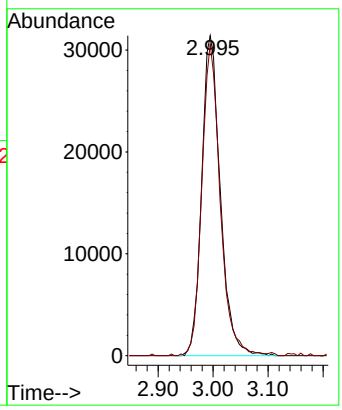




#5
Bromomethane
Concen: 47.999 ug/l
RT: 2.995 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 94 Resp: 7397

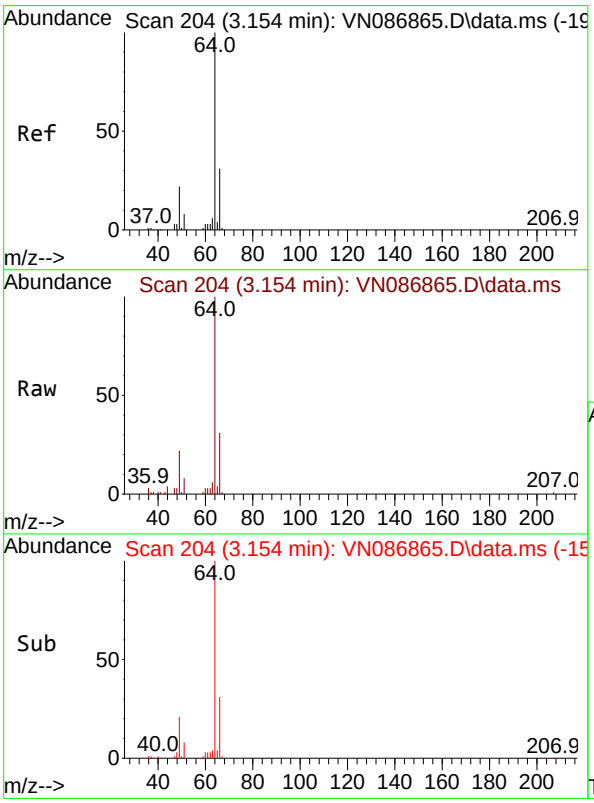
Ion	Ratio	Lower	Upper
94	100		
96	97.4	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

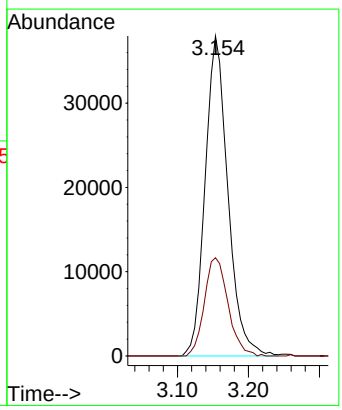
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

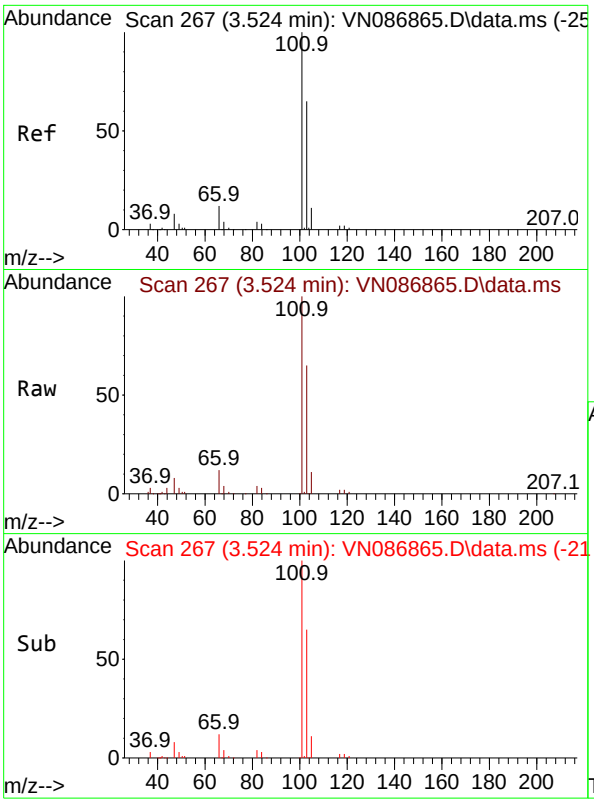


#6
Chloroethane
Concen: 47.504 ug/l
RT: 3.154 min Scan# 204
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 64 Resp: 84505

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.6	36.8

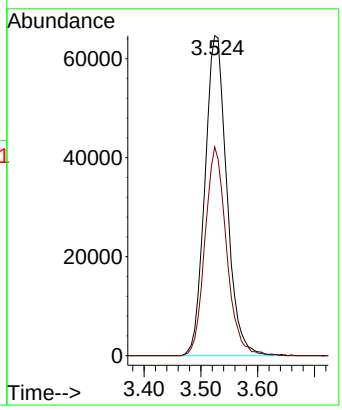




#7
Trichlorofluoromethane
Concen: 48.041 ug/l
RT: 3.524 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:101 Resp: 17286

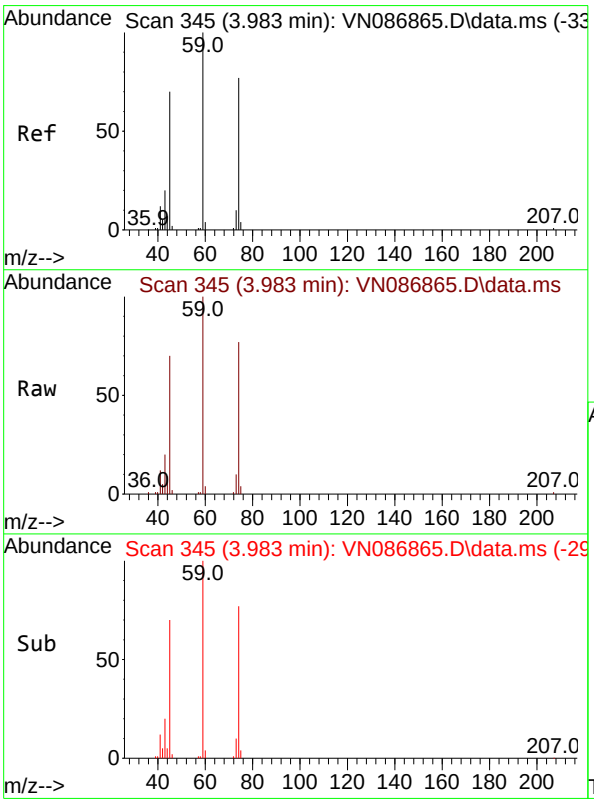
Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.2	78.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

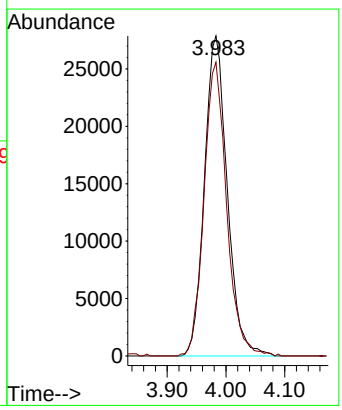
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

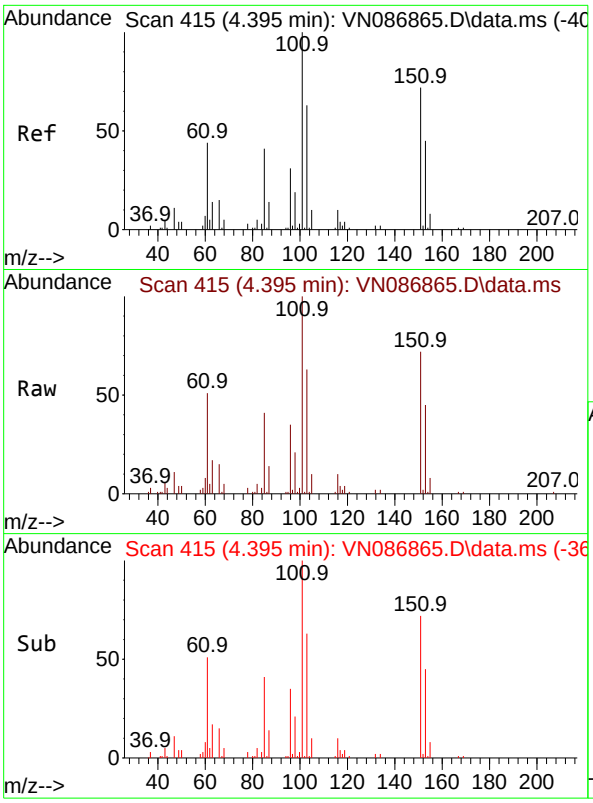


#8
Diethyl Ether
Concen: 47.963 ug/l
RT: 3.983 min Scan# 345
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 74 Resp: 75193

Ion	Ratio	Lower	Upper
74	100		
45	91.0	45.5	136.5

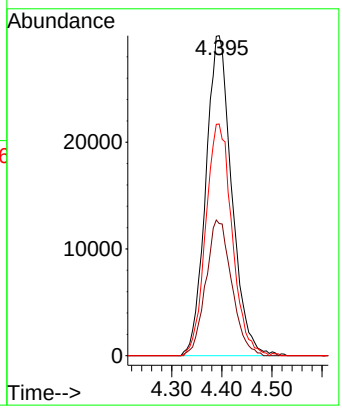




#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.640 ug/l
RT: 4.395 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:101 Resp: 10769

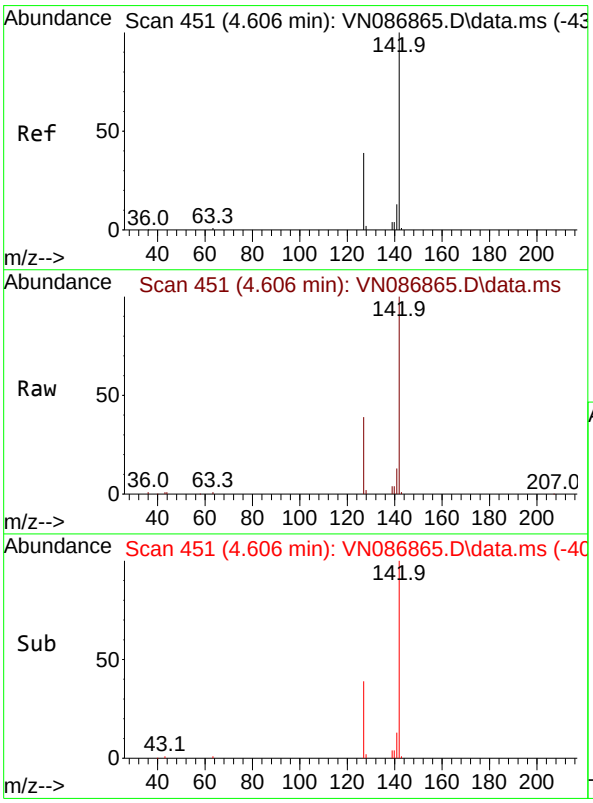
Ion	Ratio	Lower	Upper
101	100		
85	42.3	33.8	50.8
151	73.4	58.7	88.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

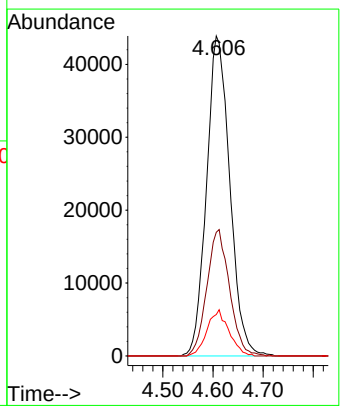
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

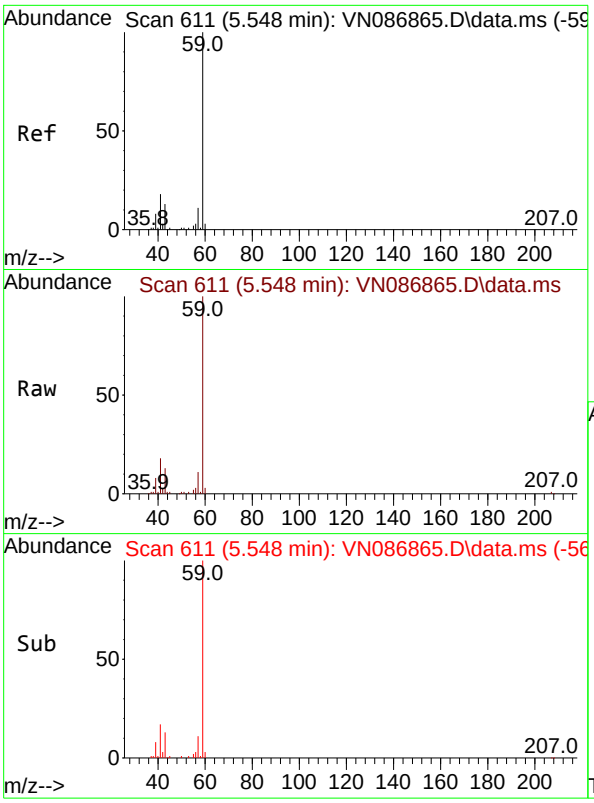


#10
Methyl Iodide
Concen: 48.346 ug/l
RT: 4.606 min Scan# 451
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:142 Resp: 141678

Ion	Ratio	Lower	Upper
142	100		
127	38.6	30.9	46.3
141	13.0	10.4	15.6

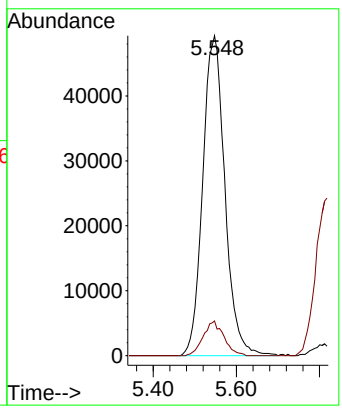




#11
Tert butyl alcohol
Concen: 242.020 ug/l
RT: 5.548 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 59 Resp: 18231

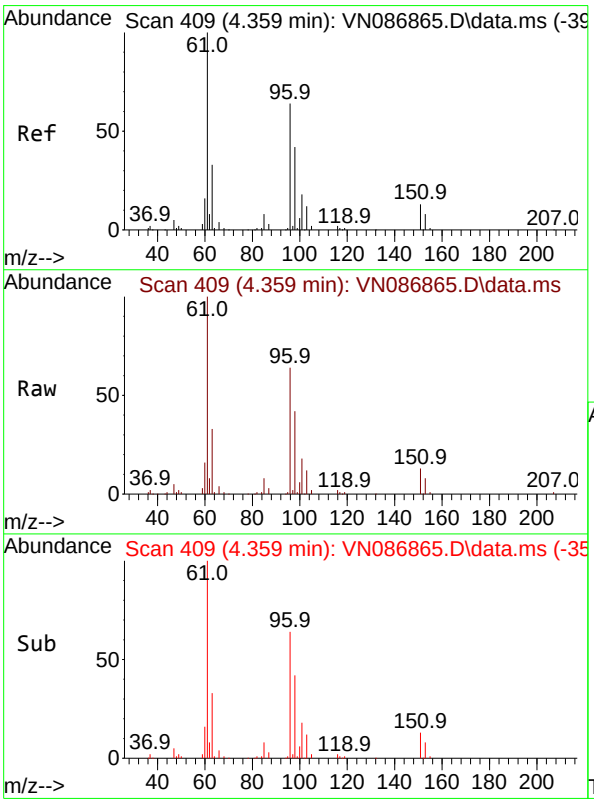
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.1	12.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

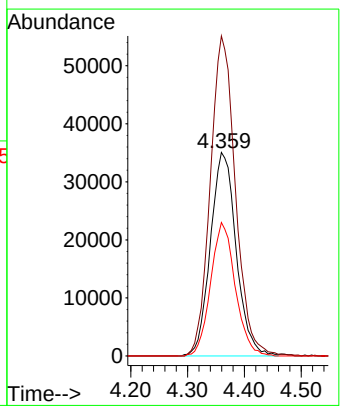
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

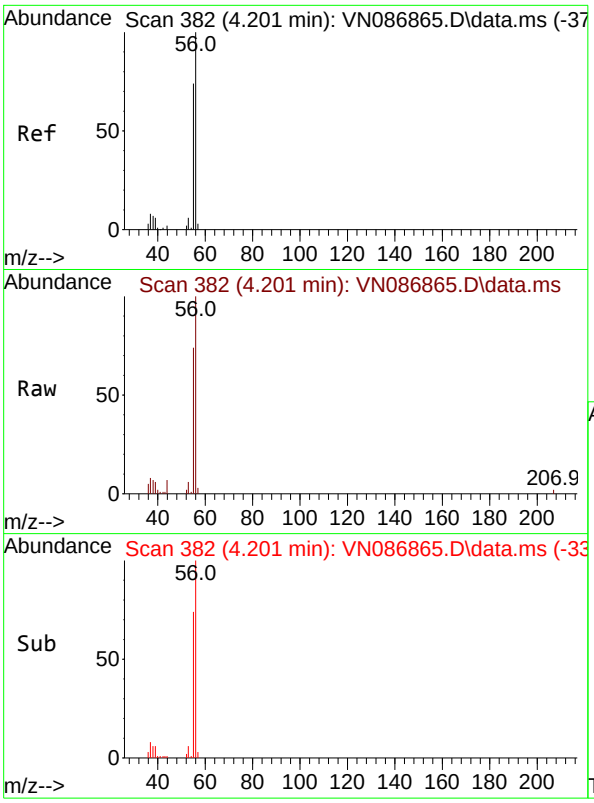


#12
1,1-Dichloroethene
Concen: 47.900 ug/l
RT: 4.359 min Scan# 409
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 96 Resp: 110549

Ion	Ratio	Lower	Upper
96	100		
61	157.2	125.8	188.6
98	65.6	52.5	78.7

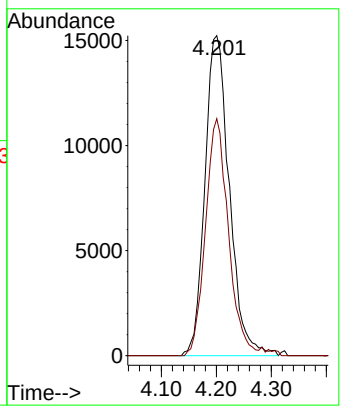




#13
Acrolein
Concen: 197.217 ug/l
RT: 4.201 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 56 Resp: 4702

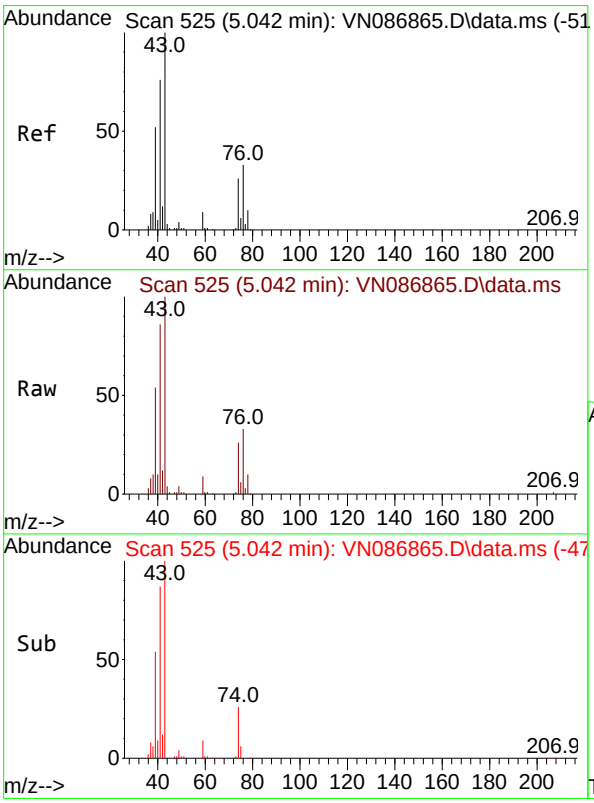
Ion	Ratio	Lower	Upper
56	100		
55	69.5	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

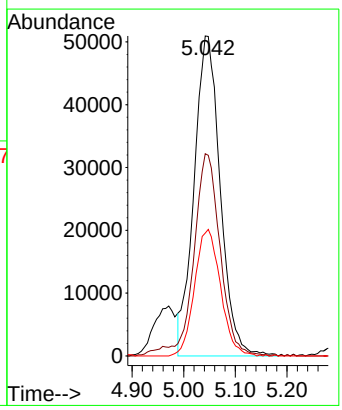
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

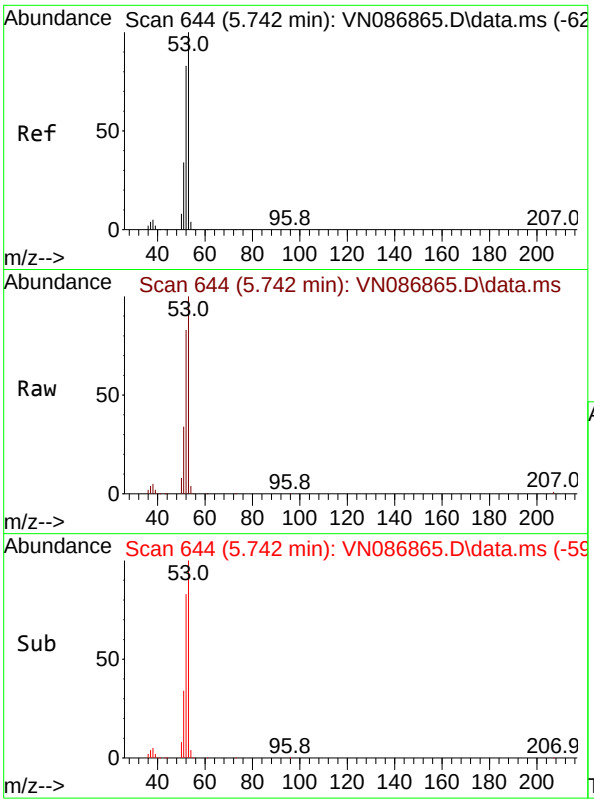


#14
Allyl chloride
Concen: 46.848 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 41 Resp: 179313

Ion	Ratio	Lower	Upper
41	100		
39	64.1	51.3	76.9
76	39.2	31.4	47.0





#15
Acrylonitrile
Concen: 239.638 ug/l
RT: 5.742 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

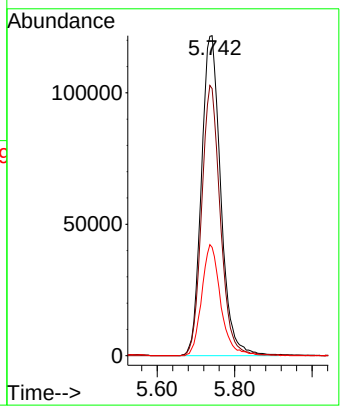
Tgt Ion: 53 Resp: 42194

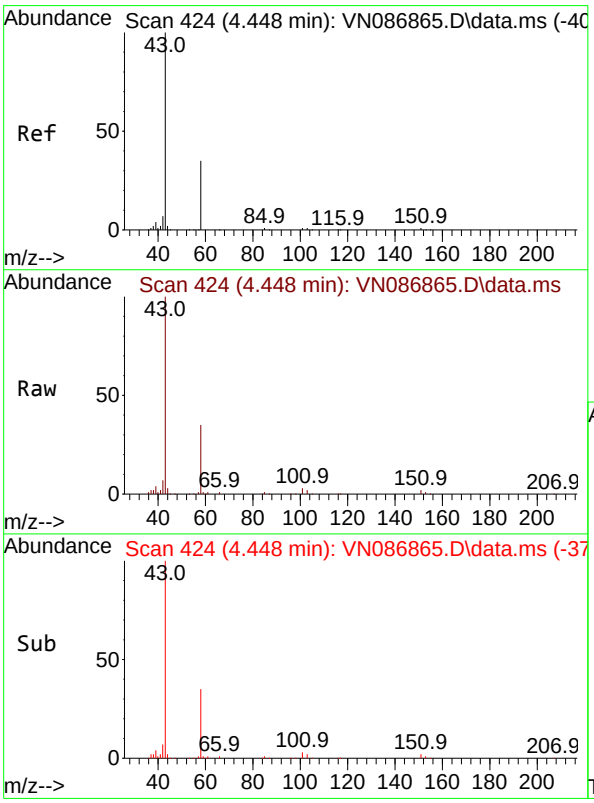
Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.0	97.6
51	34.0	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

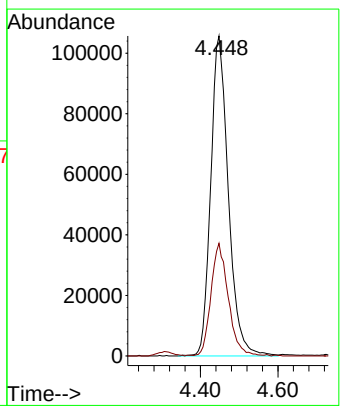


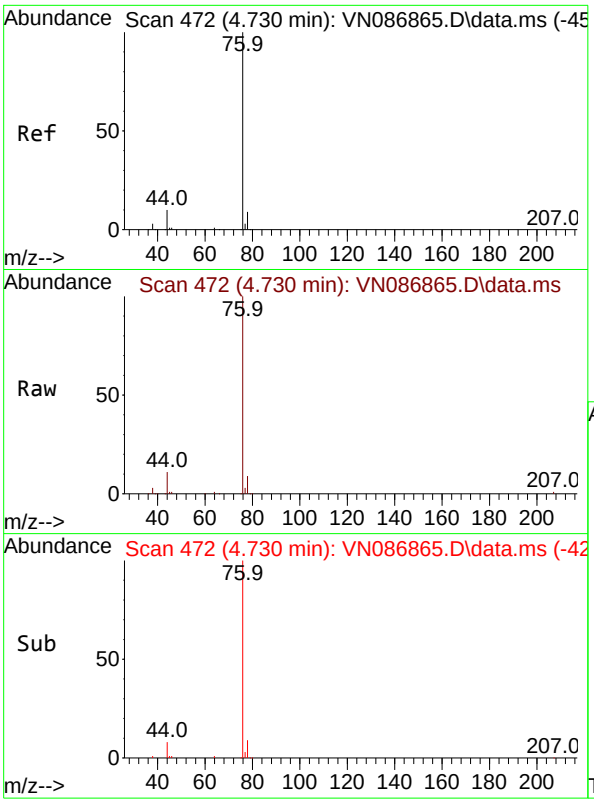


#16
Acetone
Concen: 226.765 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 43 Resp: 333857

Ion	Ratio	Lower	Upper
43	100		
58	35.0	28.0	42.0

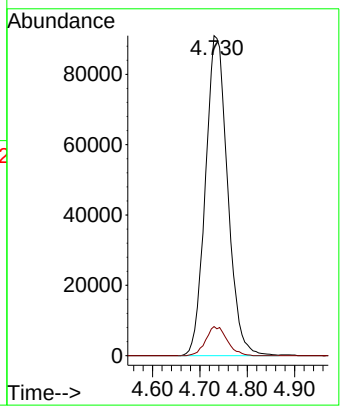




#17
Carbon Disulfide
Concen: 46.328 ug/l
RT: 4.730 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 76 Resp: 29575

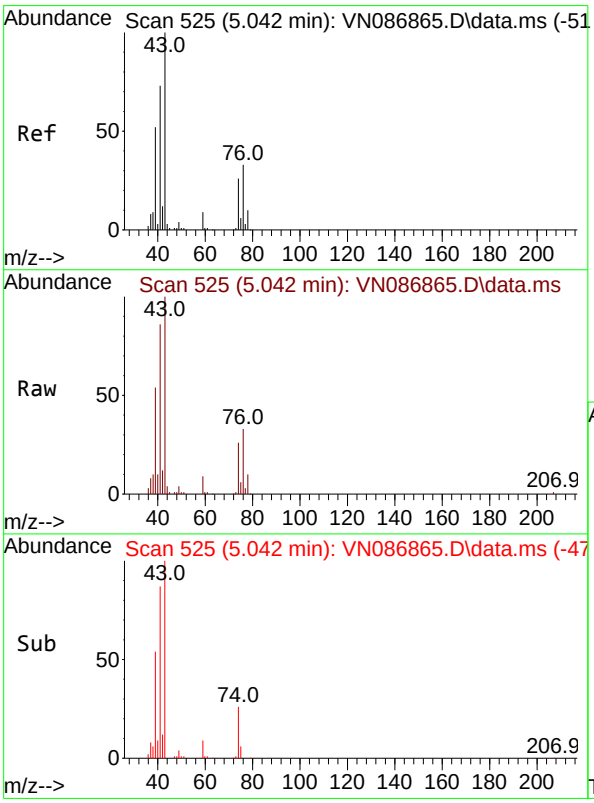
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

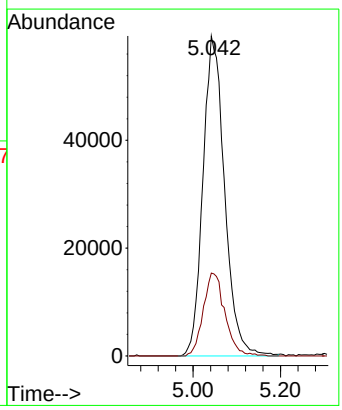
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

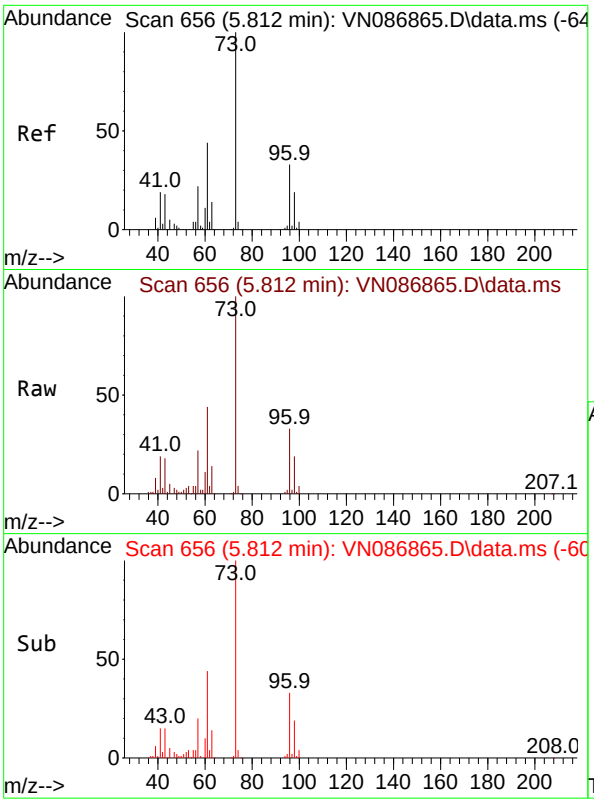


#18
Methyl Acetate
Concen: 47.673 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 43 Resp: 204538

Ion	Ratio	Lower	Upper
43	100		
74	25.9	20.7	31.1

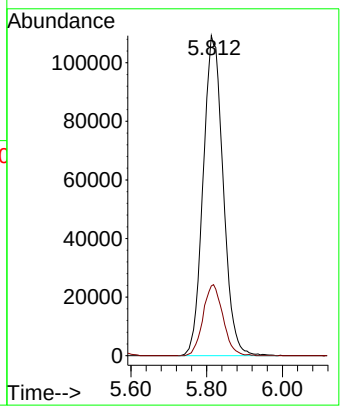




#19
Methyl tert-butyl Ether
Concen: 47.960 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 73 Resp: 40077

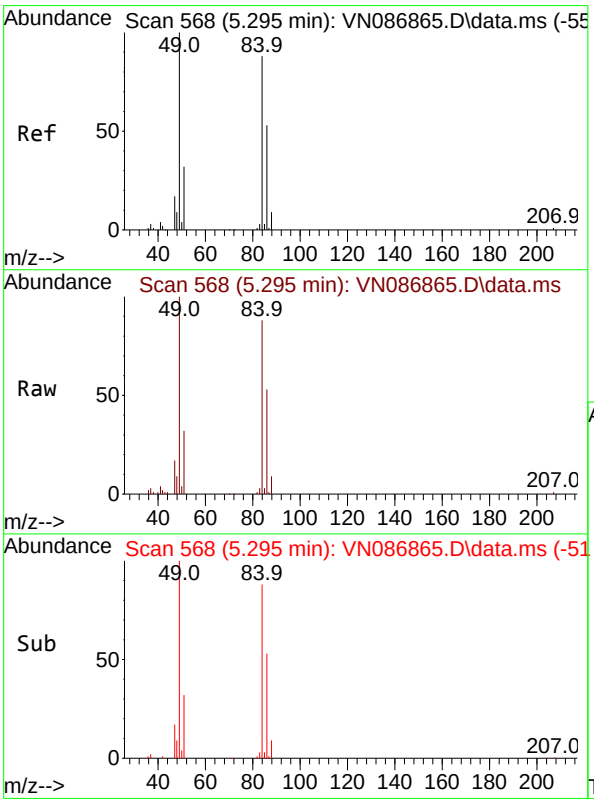
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

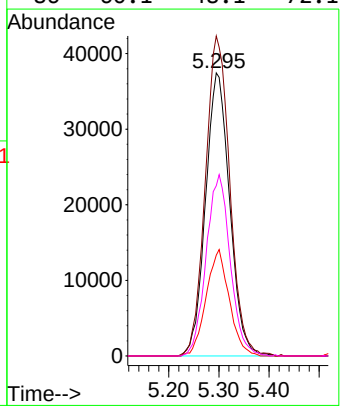
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

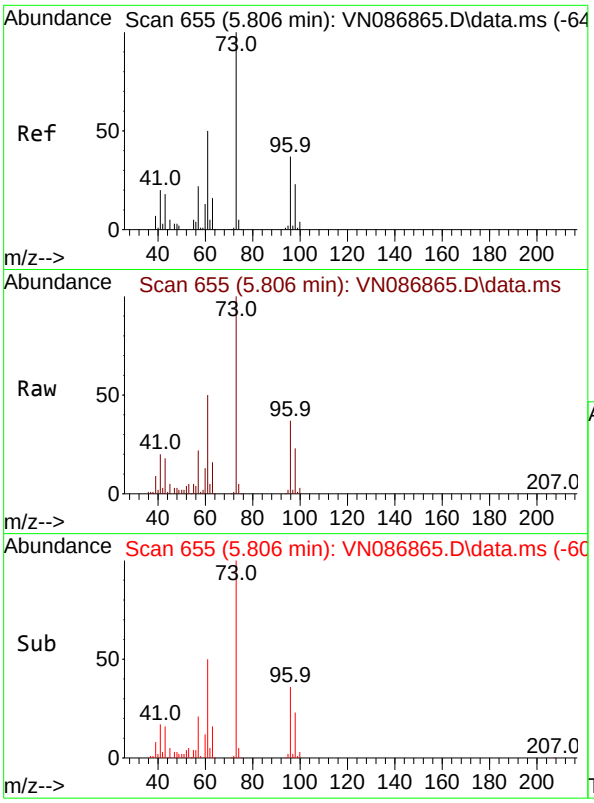


#20
Methylene Chloride
Concen: 45.531 ug/l
RT: 5.295 min Scan# 568
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 84 Resp: 125498

Ion	Ratio	Lower	Upper
84	100		
49	113.1	90.5	135.7
51	35.6	28.5	42.7
86	60.1	48.1	72.1

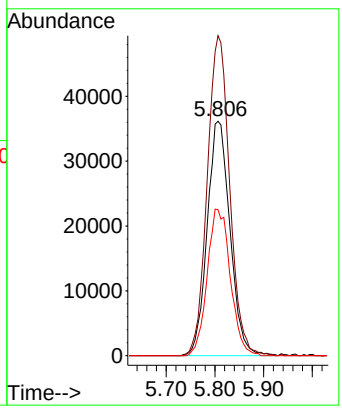




#21
trans-1,2-Dichloroethene
Concen: 45.822 ug/l
RT: 5.806 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 96 Resp: 11766

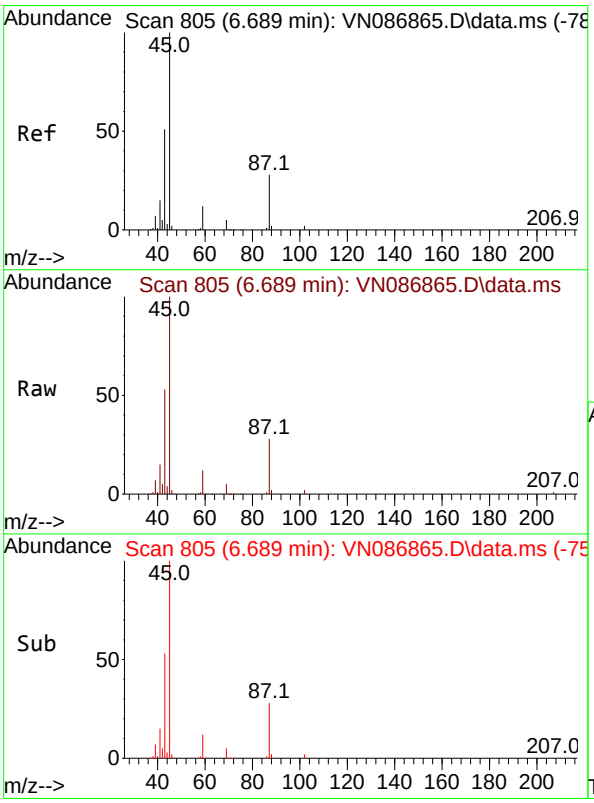
Ion	Ratio	Lower	Upper
96	100		
61	136.5	109.2	163.8
98	62.3	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

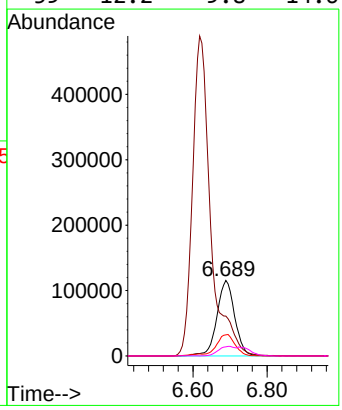
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

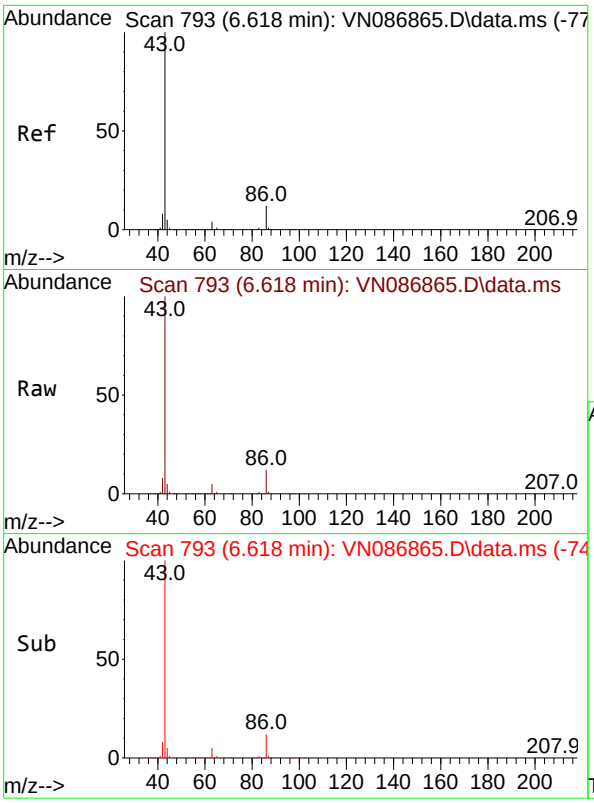


#22
Diisopropyl ether
Concen: 47.711 ug/l
RT: 6.689 min Scan# 805
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 45 Resp: 384939

Ion	Ratio	Lower	Upper
45	100		
43	52.4	41.9	62.9
87	28.0	22.4	33.6
59	12.2	9.8	14.6





#23
Vinyl Acetate
Concen: 241.910 ug/l
RT: 6.618 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

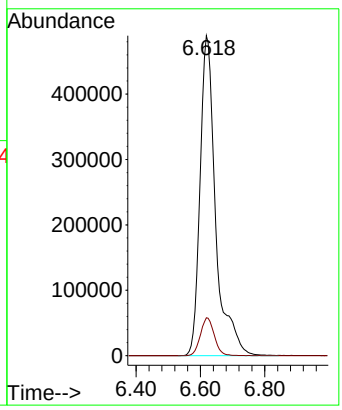
Tgt Ion: 43 Resp: 164902

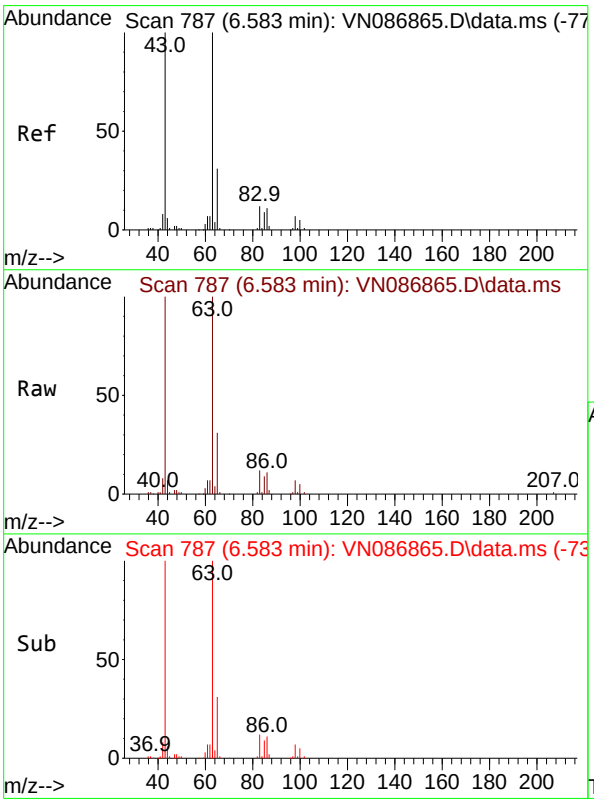
Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.5	14.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

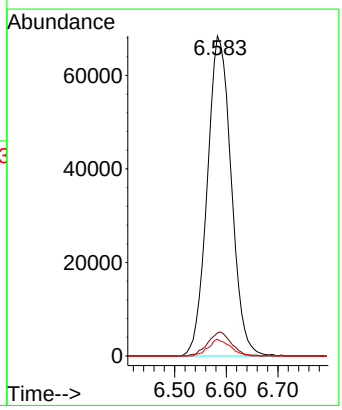


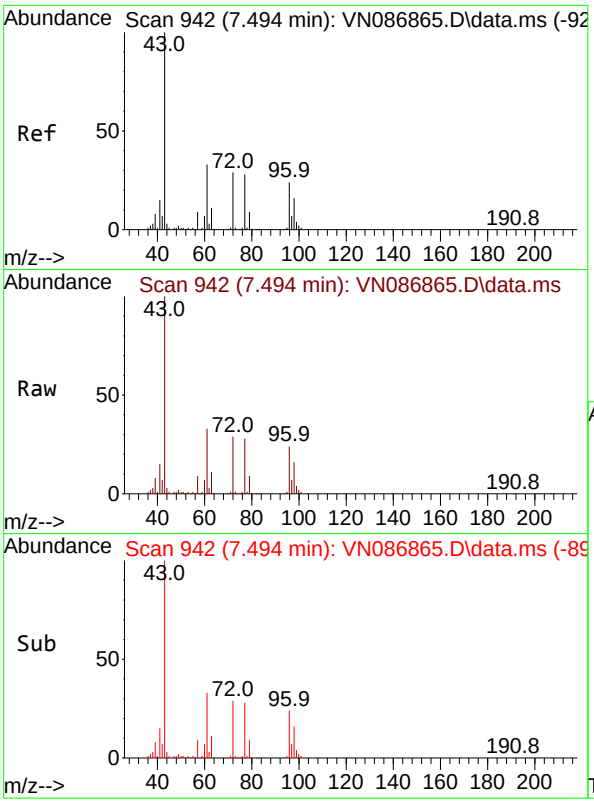


#24
1,1-Dichloroethane
Concen: 47.485 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 63 Resp: 220477

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	5.2	2.6	7.8

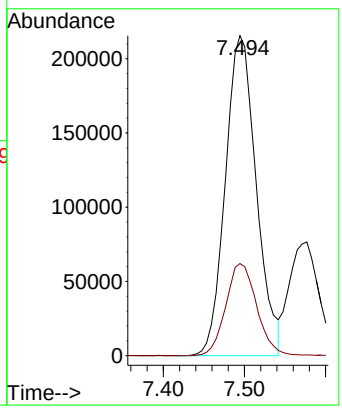




#25
2-Butanone
Concen: 238.693 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 43 Resp: 57122

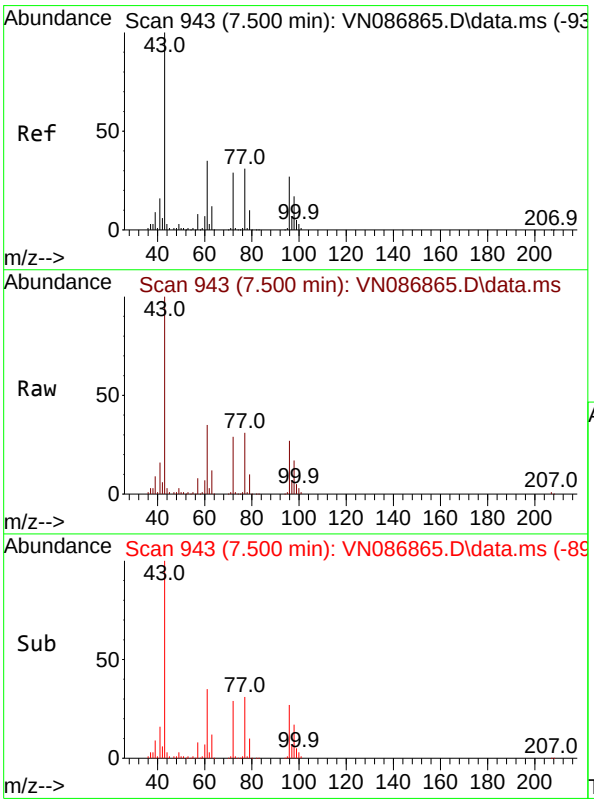
Ion	Ratio	Lower	Upper
43	100		
72	28.8	23.0	34.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

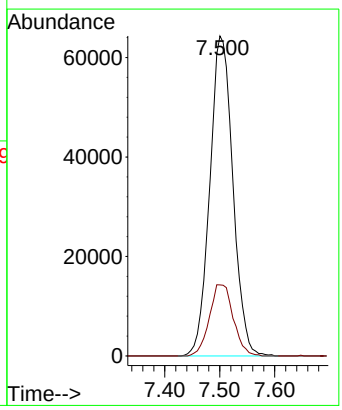
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

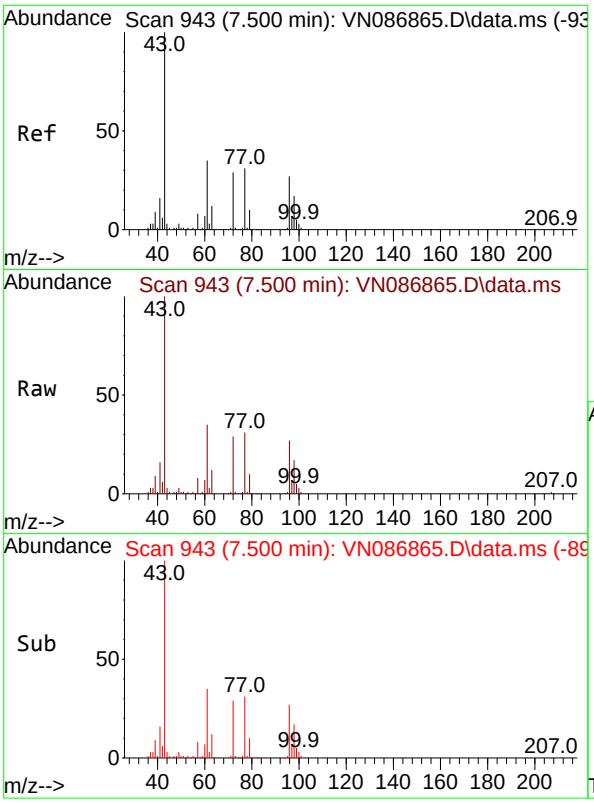


#26
2,2-Dichloropropane
Concen: 51.933 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 77 Resp: 187567

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.6	34.7





#27
cis-1,2-Dichloroethene
Concen: 47.189 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

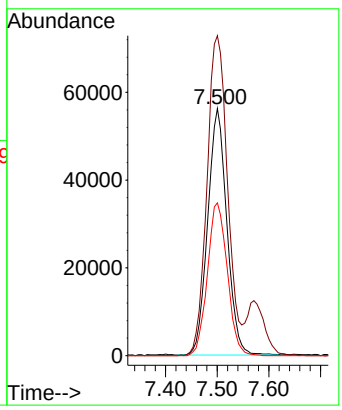
Tgt Ion: 96 Resp: 14491

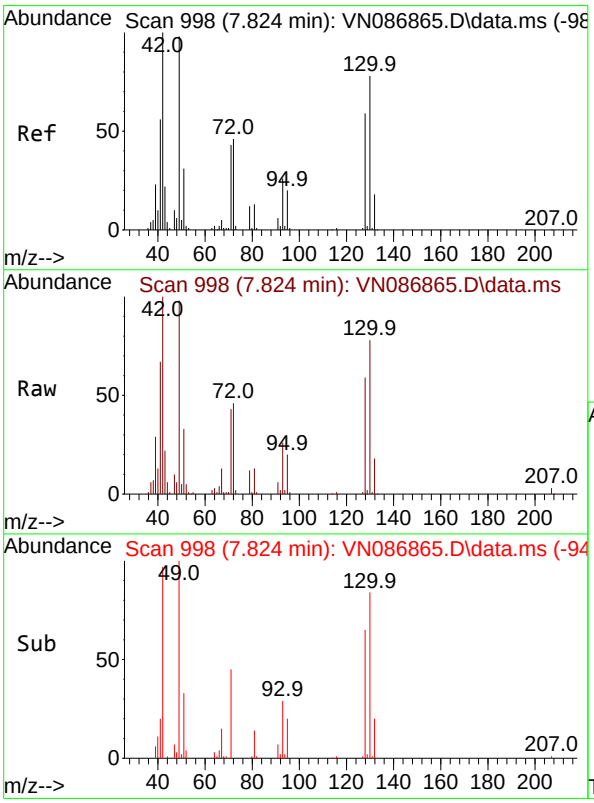
Ion	Ratio	Lower	Upper
96	100		
61	139.0	0.0	278.0
98	64.1	0.0	128.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

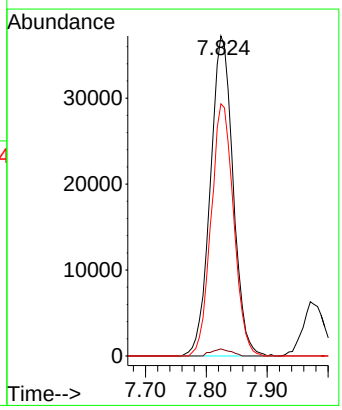


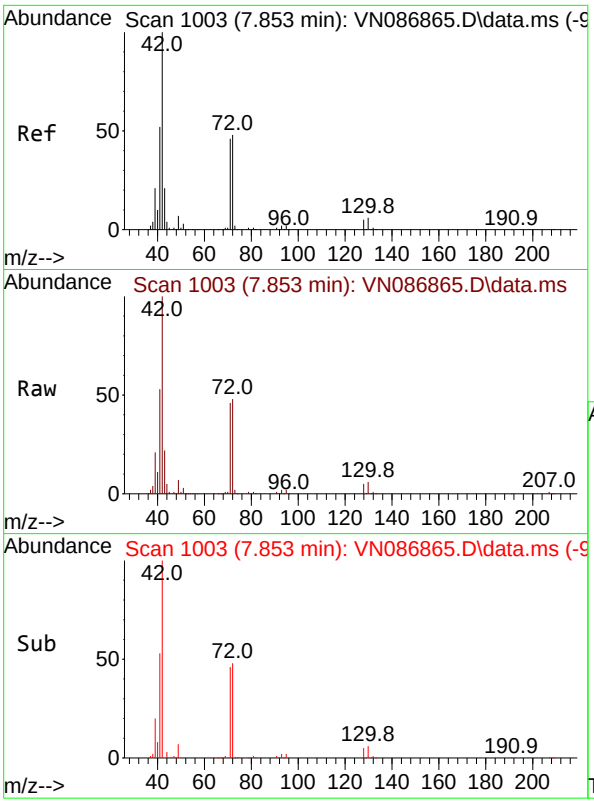


#28
Bromochloromethane
Concen: 42.362 ug/l
RT: 7.824 min Scan# 998
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 49 Resp: 96707

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	77.7	62.2	93.2

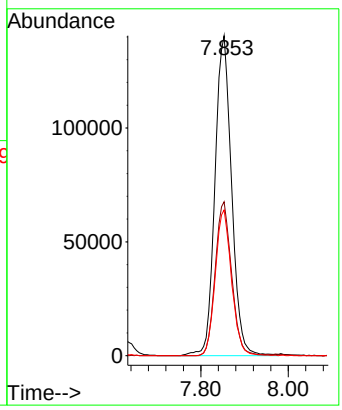




#29
Tetrahydrofuran
Concen: 238.210 ug/l
RT: 7.853 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 42 Resp: 37135

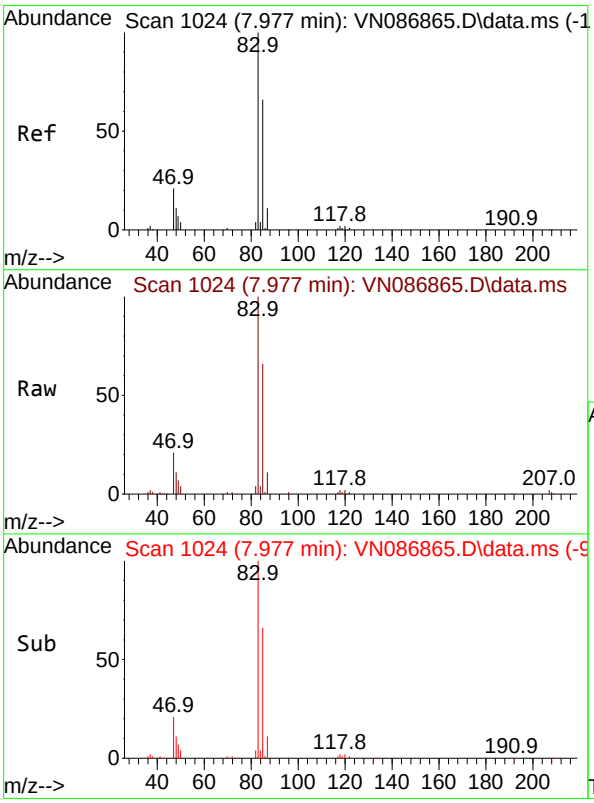
Ion	Ratio	Lower	Upper
42	100		
72	47.2	37.8	56.6
71	44.5	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

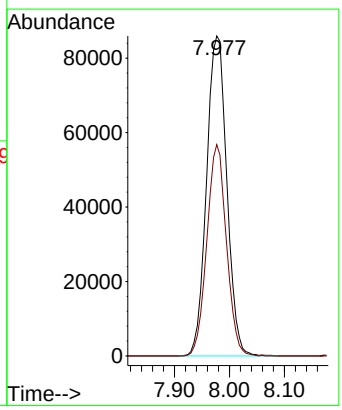
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

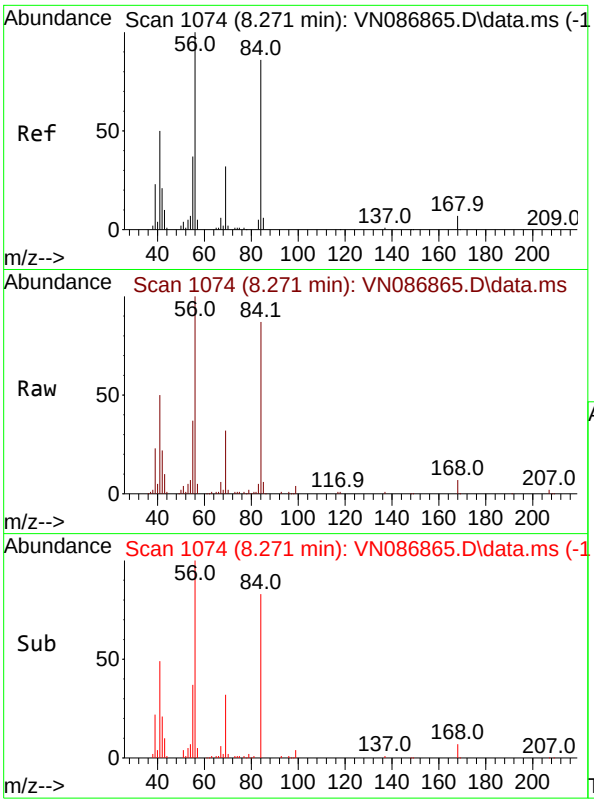


#30
Chloroform
Concen: 47.467 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 83 Resp: 220093

Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.9	79.3

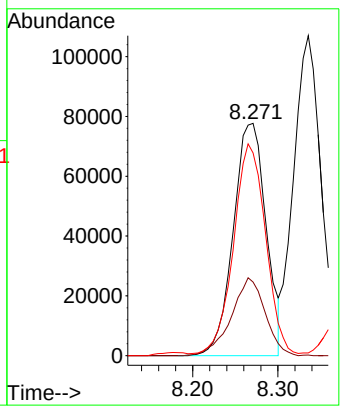




#31
Cyclohexane
Concen: 46.217 ug/l
RT: 8.271 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 56 Resp: 20810

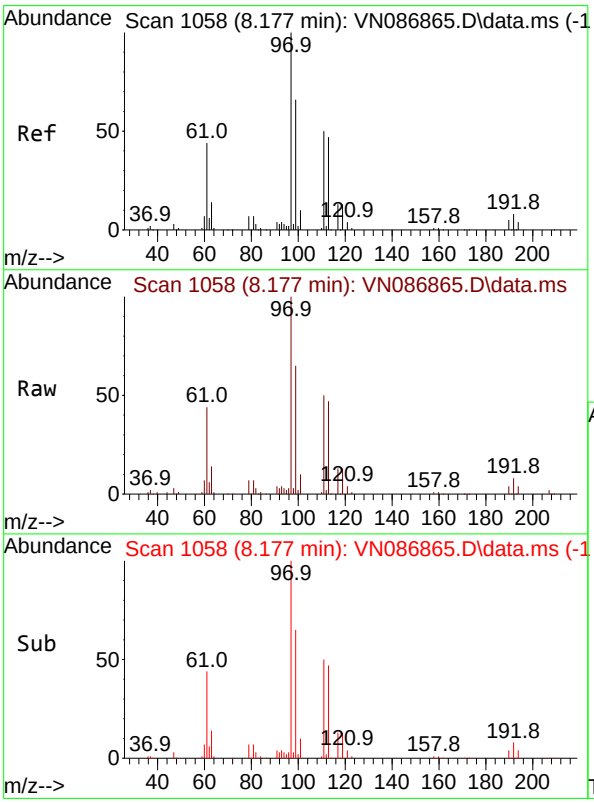
Ion	Ratio	Lower	Upper
56	100		
69	31.7	25.4	38.0
84	86.0	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

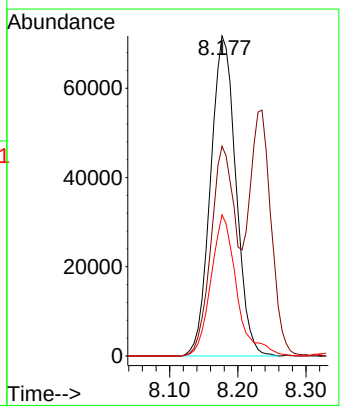
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

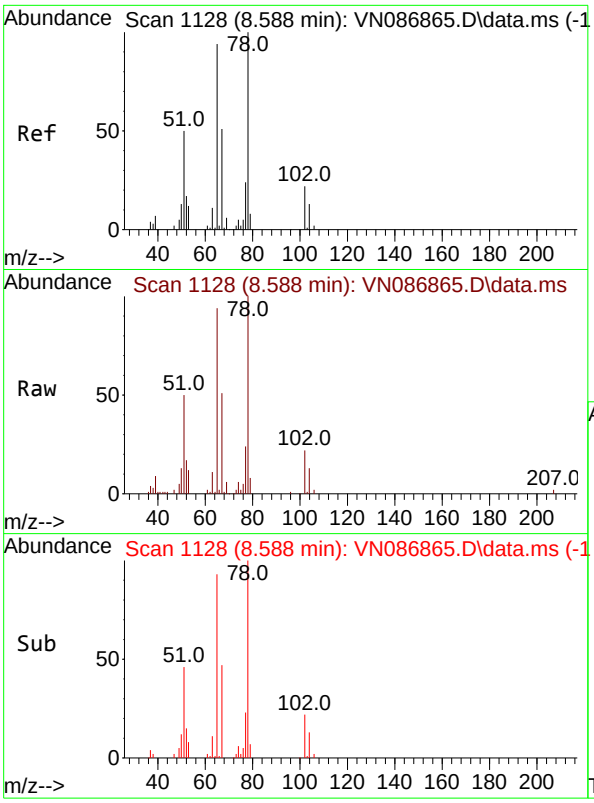


#32
1,1,1-Trichloroethane
Concen: 47.037 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 97 Resp: 185502

Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.0	78.0
61	44.9	35.9	53.9

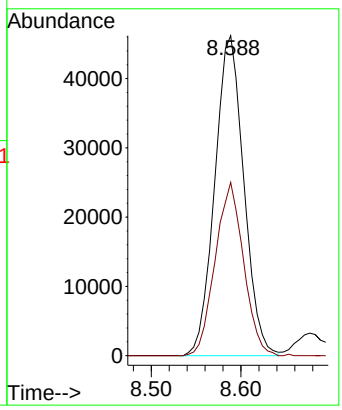




#33
1,2-Dichloroethane-d4
Concen: 37.366 ug/l
RT: 8.588 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 65 Resp: 10373

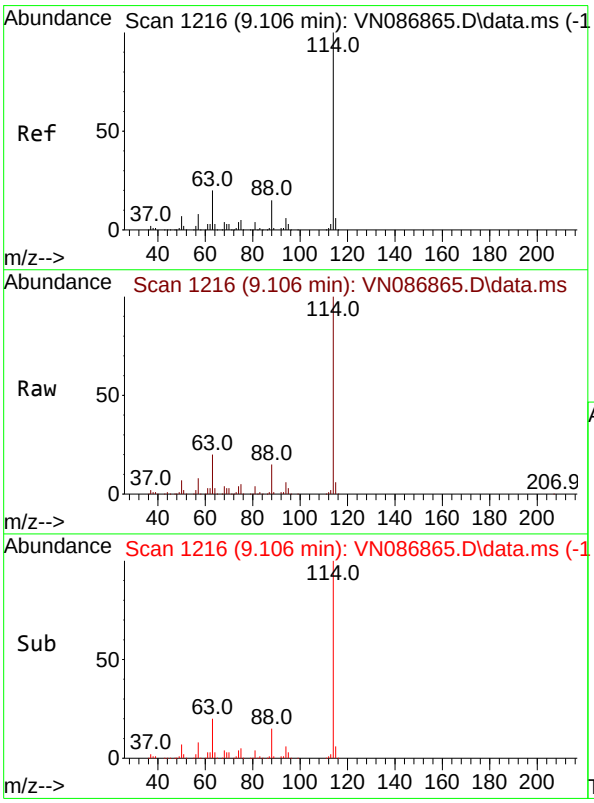
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

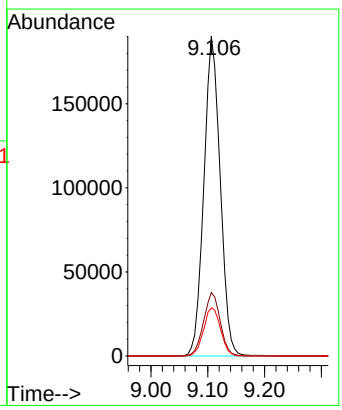
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

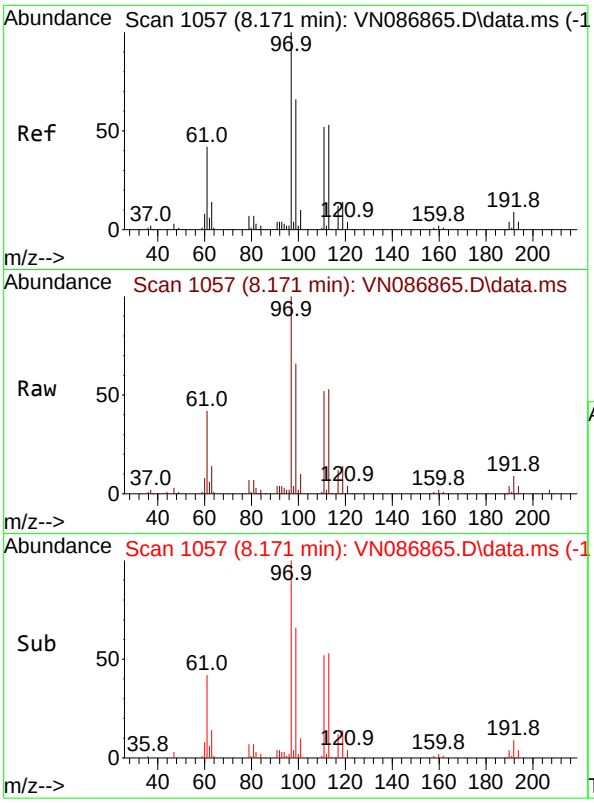


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:114 Resp: 378587

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.6
88	15.1	0.0	30.2

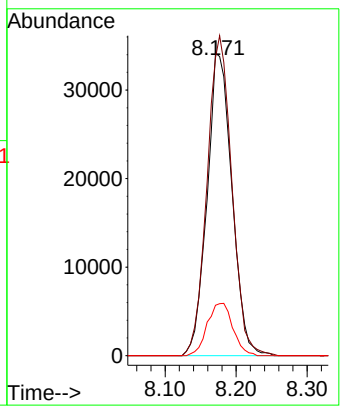




#35
Dibromofluoromethane
Concen: 37.020 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:113 Resp: 8305

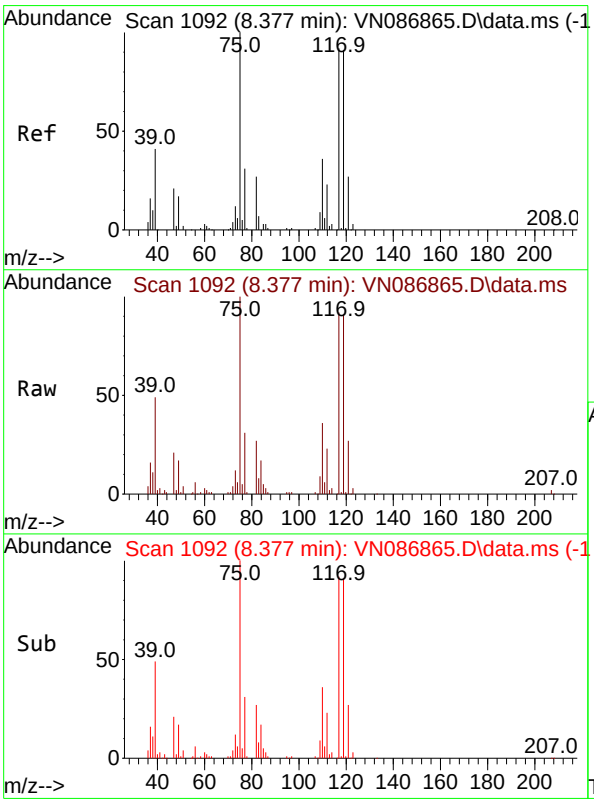
Ion	Ratio	Lower	Upper
113	100		
111	105.2	84.2	126.2
192	17.8	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

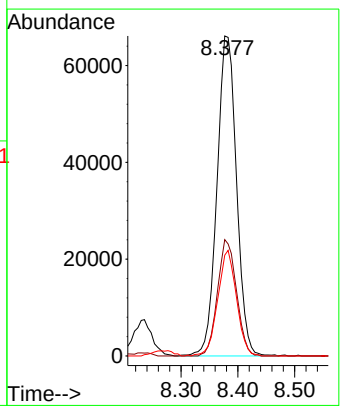
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

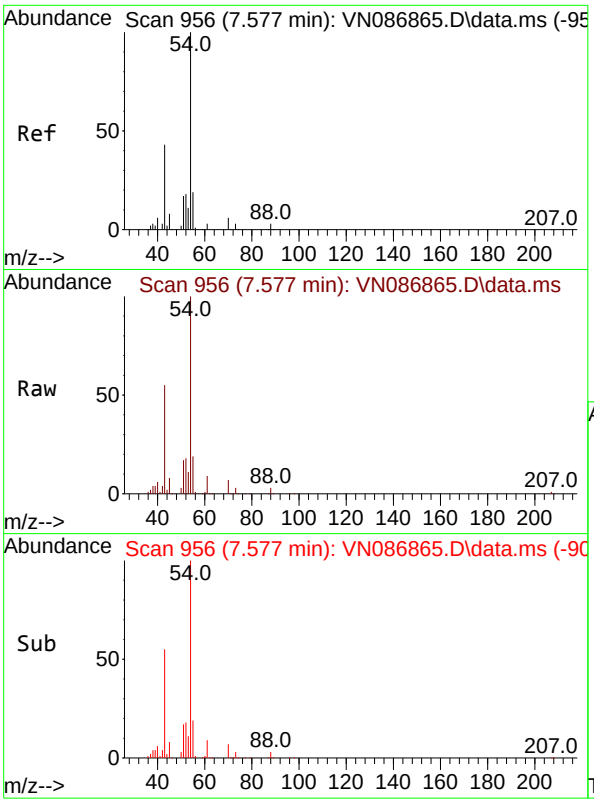


#36
1,1-Dichloropropene
Concen: 47.362 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 75 Resp: 158341

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.6	52.9
77	31.6	25.3	37.9

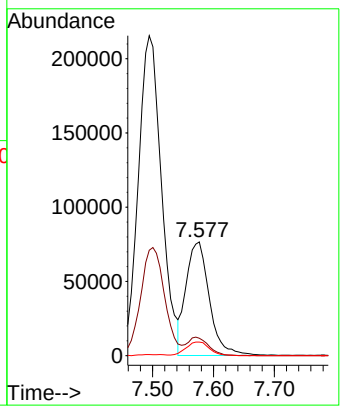




#37
Ethyl Acetate
Concen: 47.720 ug/l
RT: 7.577 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 43 Resp: 20309

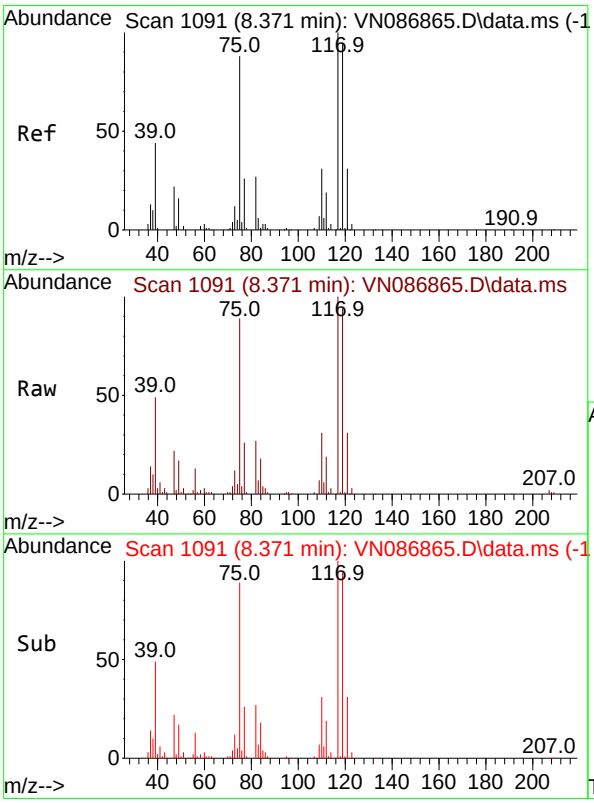
Ion	Ratio	Lower	Upper
43	100		
61	15.1	12.1	18.1
70	12.2	9.8	14.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

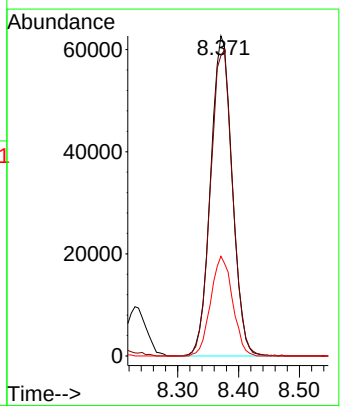
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

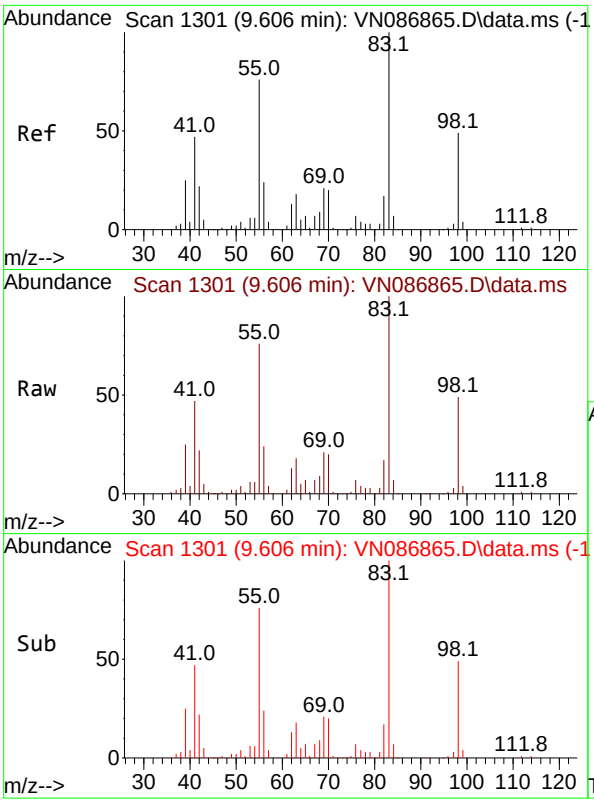


#38
Carbon Tetrachloride
Concen: 47.126 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:117 Resp: 154677

Ion	Ratio	Lower	Upper
117	100		
119	93.8	75.0	112.6
121	31.1	24.9	37.3

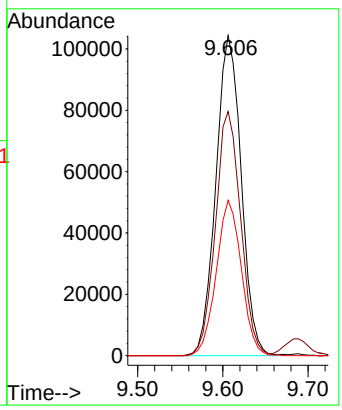




#39
Methylcyclohexane
Concen: 47.126 ug/l
RT: 9.606 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 83 Resp: 21584

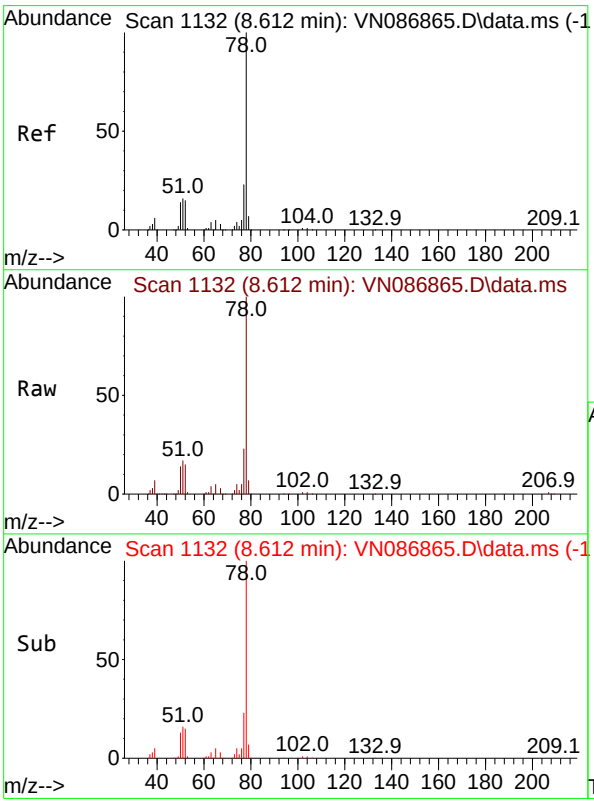
Ion	Ratio	Lower	Upper
83	100		
55	76.3	61.0	91.6
98	48.6	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

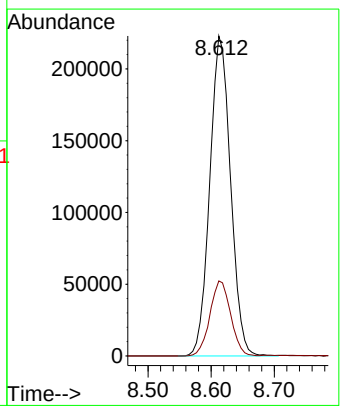
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

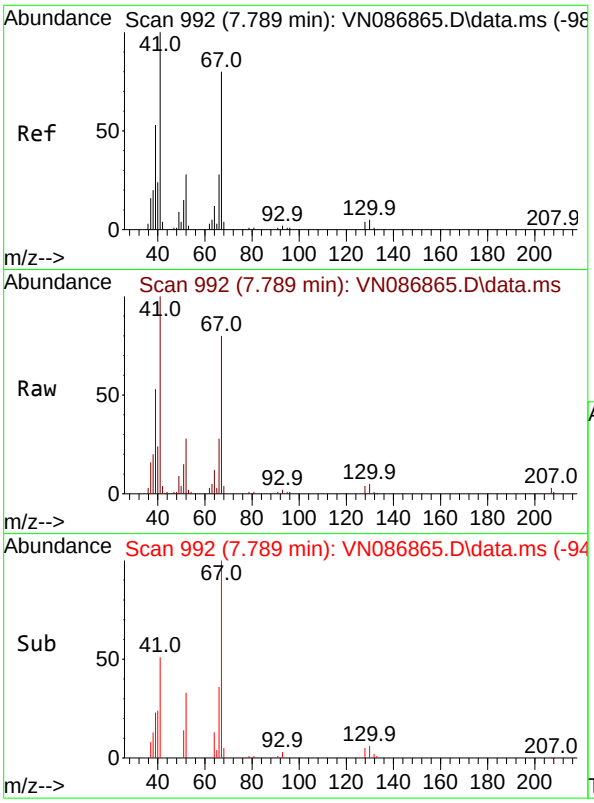


#40
Benzene
Concen: 46.590 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 78 Resp: 509334

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.7	28.1

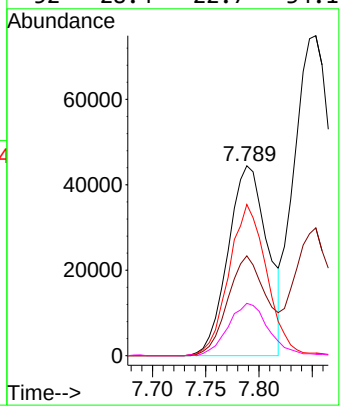




#41
Methacrylonitrile
Concen: 48.000 ug/l
RT: 7.789 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 41 Resp: 11472

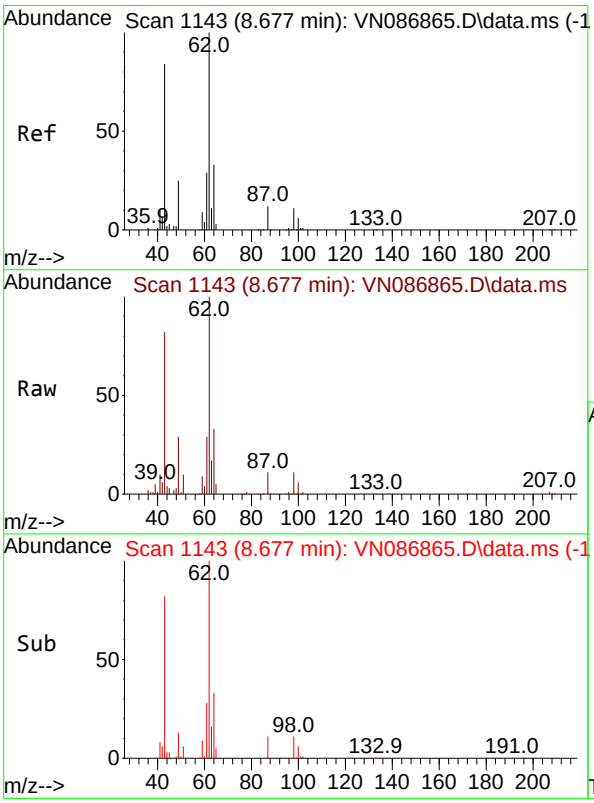
Ion	Ratio	Lower	Upper
41	100		
39	51.5	41.2	61.8
67	76.8	61.4	92.2
52	28.4	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

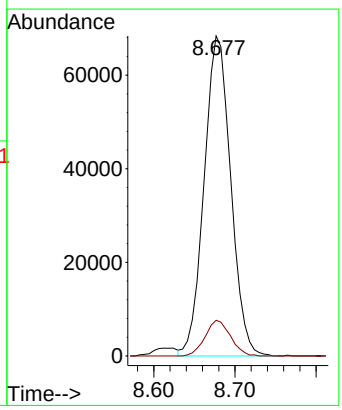
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

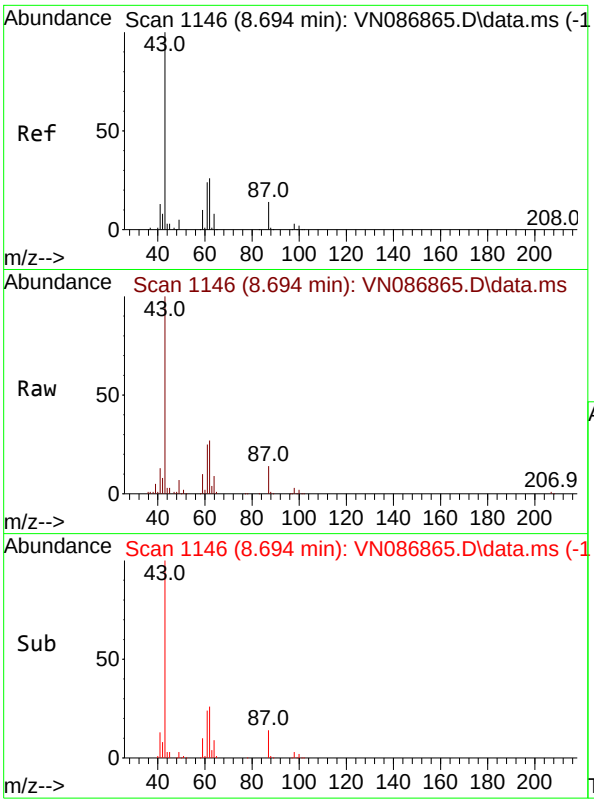


#42
1,2-Dichloroethane
Concen: 46.960 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 62 Resp: 155713

Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	21.2

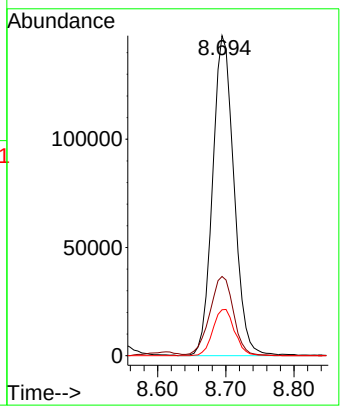




#43
Isopropyl Acetate
Concen: 47.248 ug/l
RT: 8.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 43 Resp: 32274

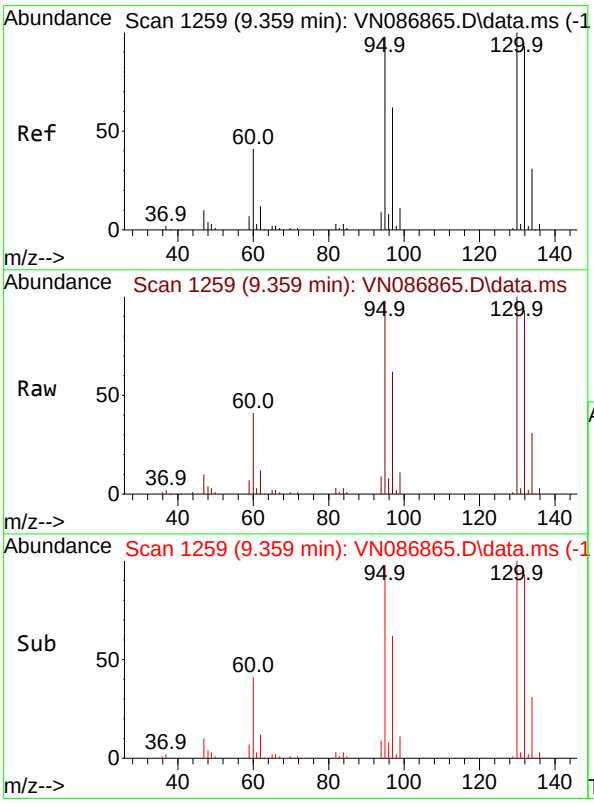
Ion	Ratio	Lower	Upper
43	100		
61	27.6	22.1	33.1
87	14.7	11.8	17.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

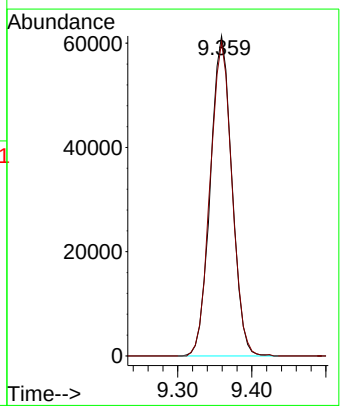
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

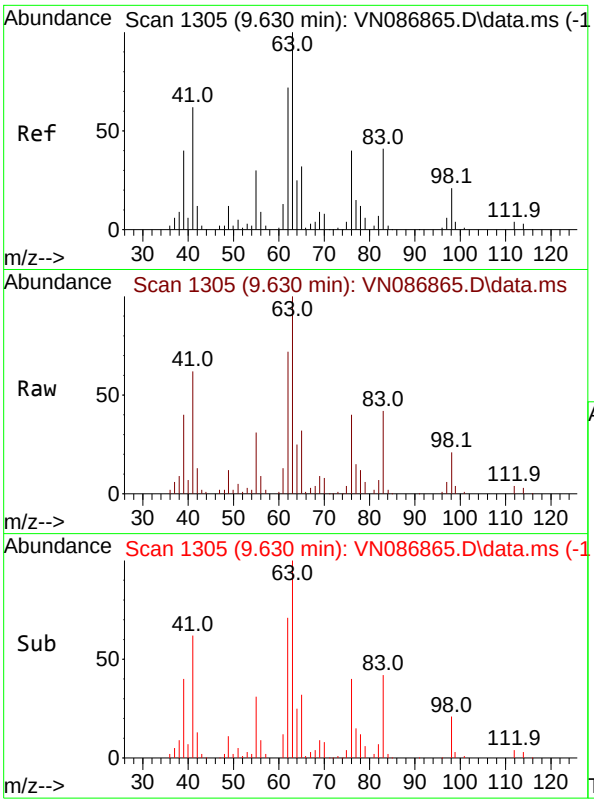


#44
Trichloroethene
Concen: 47.776 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:130 Resp: 123847

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	196.2

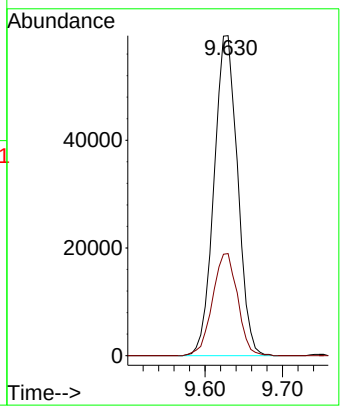




#45
1,2-Dichloropropane
Concen: 47.251 ug/l
RT: 9.630 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 63 Resp: 12567

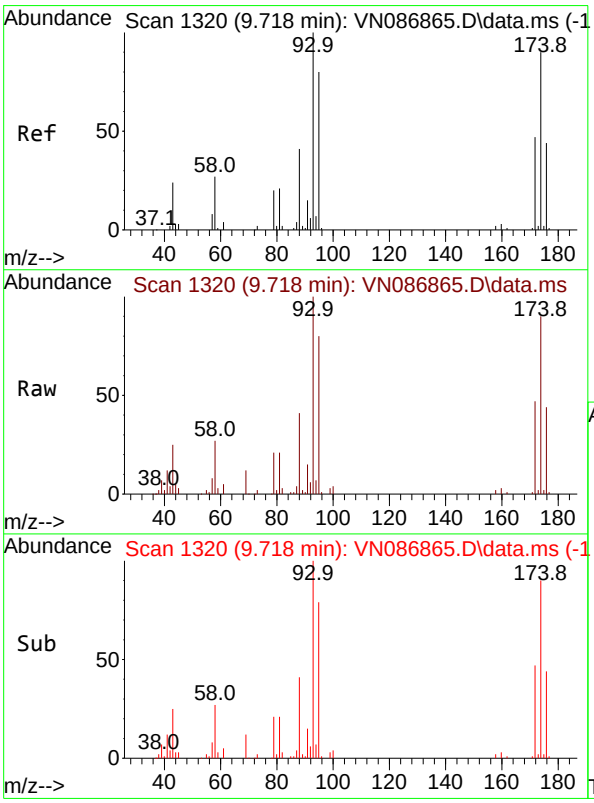
Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

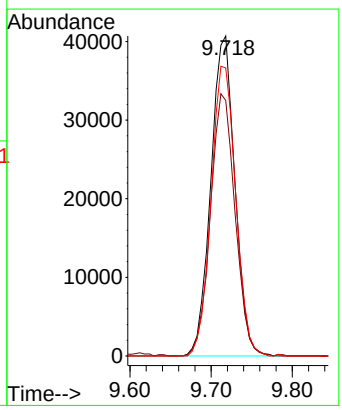
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

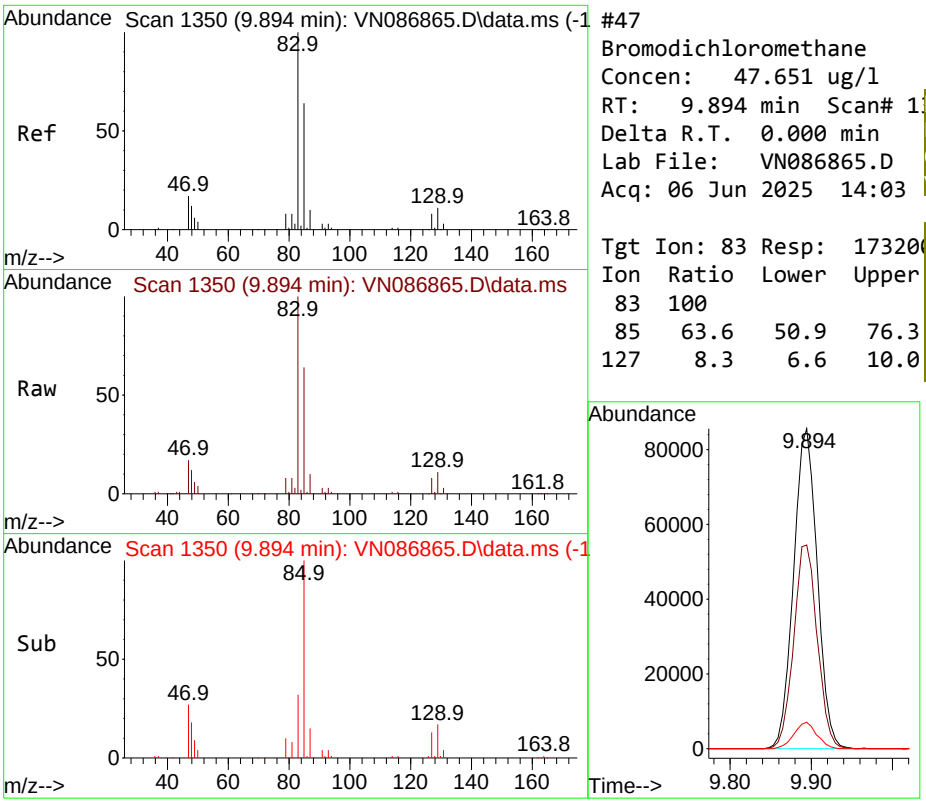


#46
Dibromomethane
Concen: 47.442 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 93 Resp: 83811

Ion	Ratio	Lower	Upper
93	100		
95	83.9	67.1	100.7
174	92.8	74.2	111.4





#47
Bromodichloromethane
Concen: 47.651 ug/l
RT: 9.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

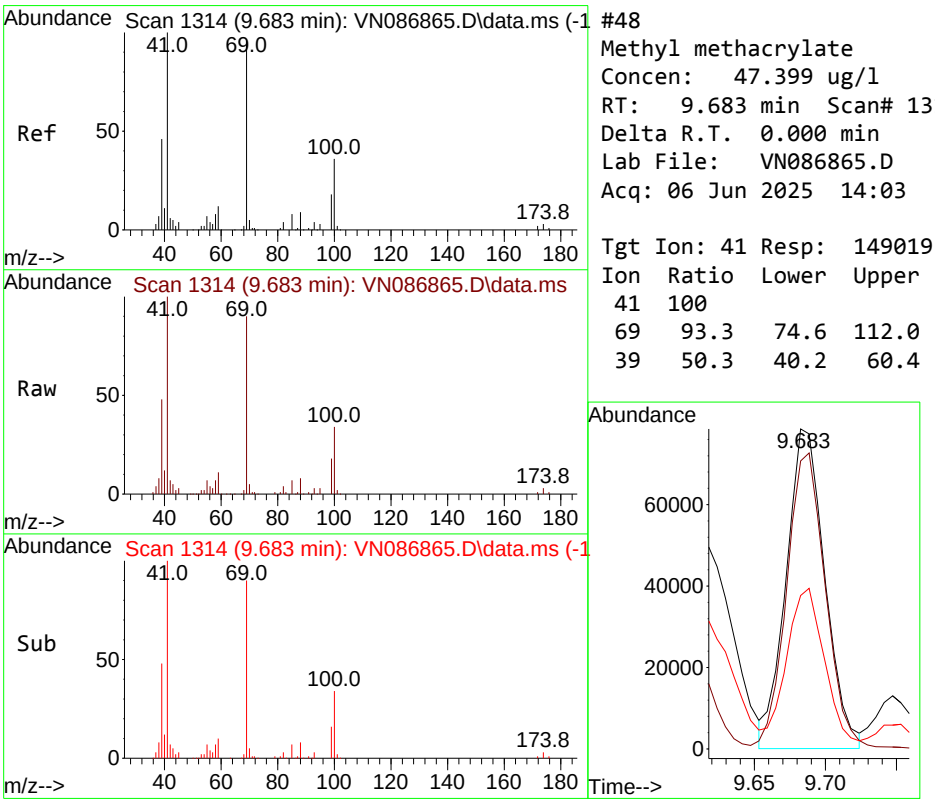
Tgt Ion: 83 Resp: 17320

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3
127	8.3	6.6	10.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

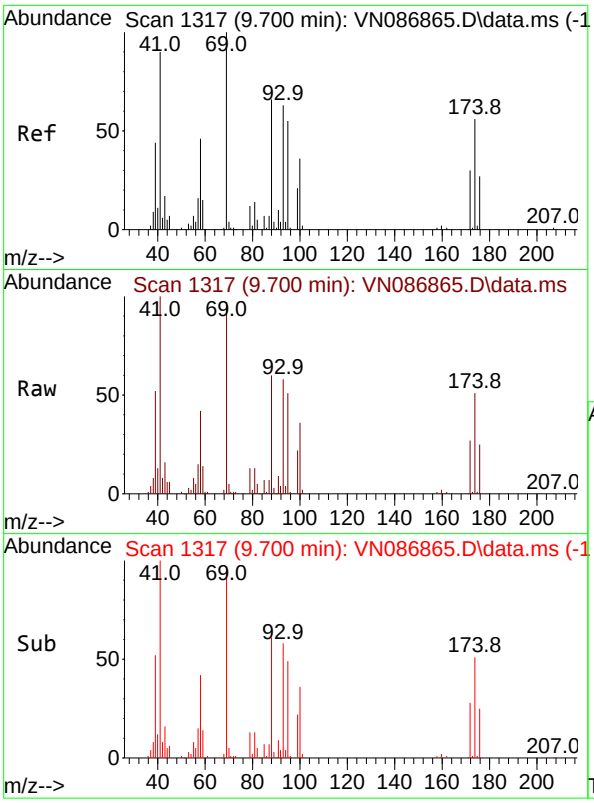
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#48
Methyl methacrylate
Concen: 47.399 ug/l
RT: 9.683 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 41 Resp: 149019

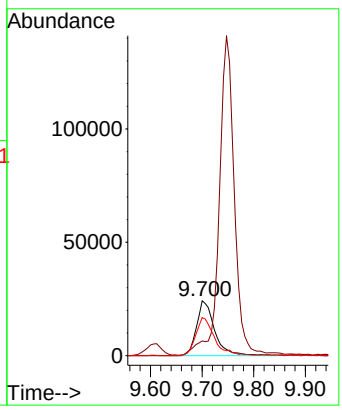
Ion	Ratio	Lower	Upper
41	100		
69	93.3	74.6	112.0
39	50.3	40.2	60.4



#49
1,4-Dioxane
Concen: 1032.607 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 88 Resp: 5906

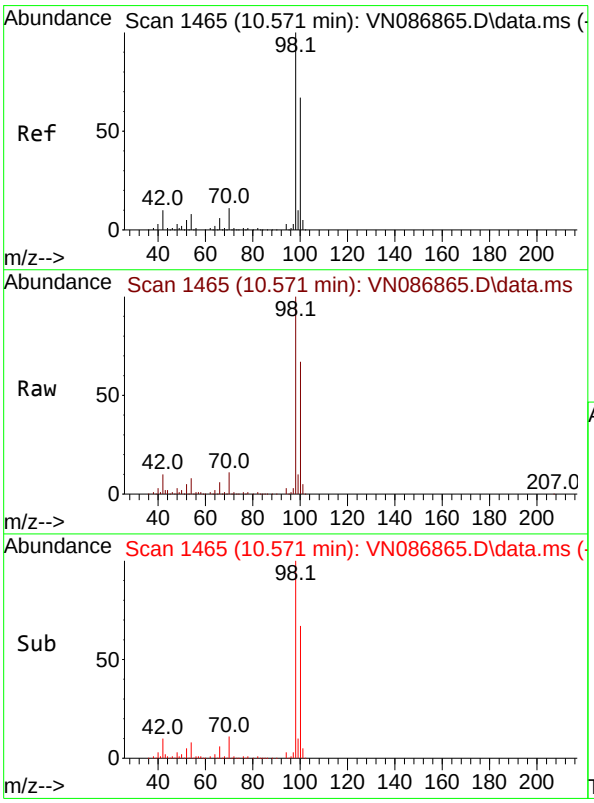
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	72.1	57.7	86.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

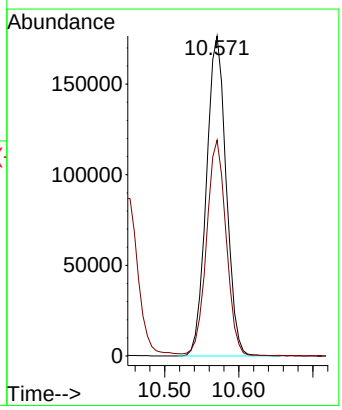
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

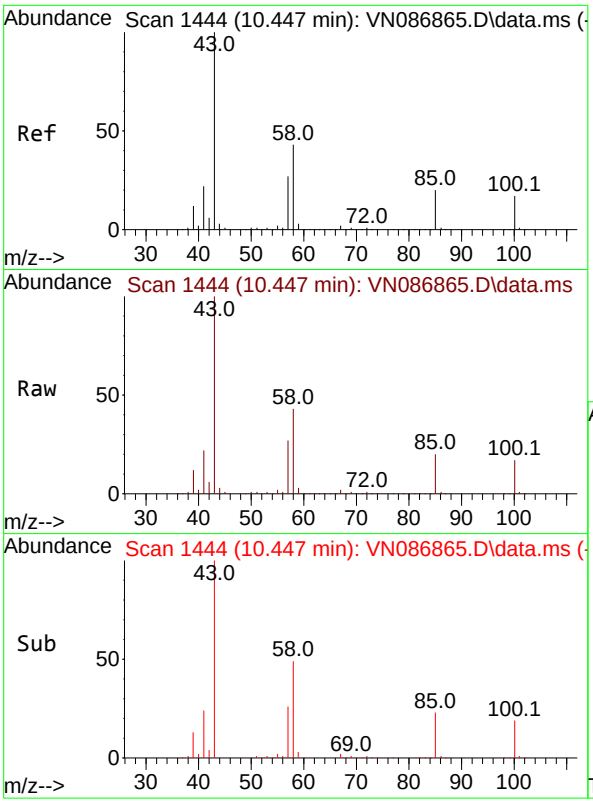


#50
Toluene-d8
Concen: 36.716 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 98 Resp: 326105

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.4	80.0





#51
4-Methyl-2-Pentanone
Concen: 247.484 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

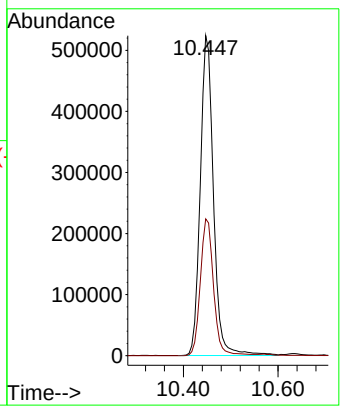
Tgt Ion: 43 Resp: 101768

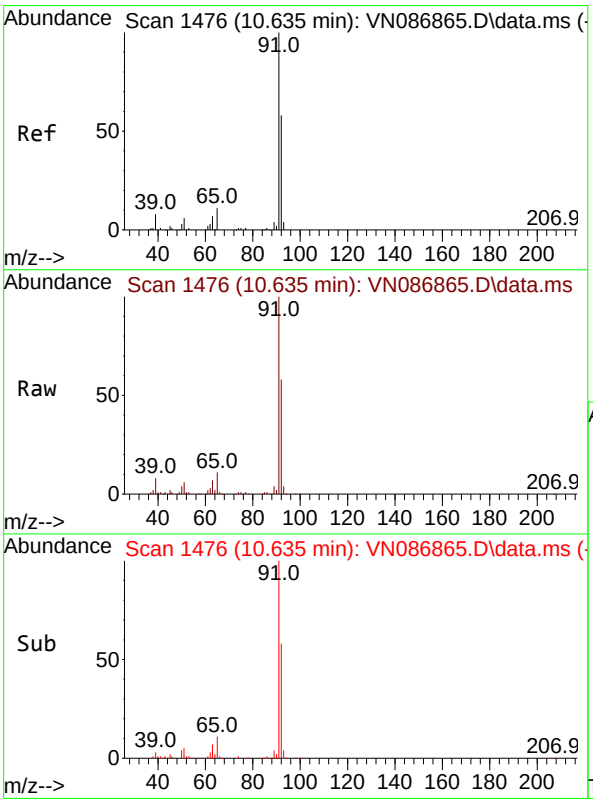
Ion	Ratio	Lower	Upper
43	100		
58	42.8	34.2	51.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

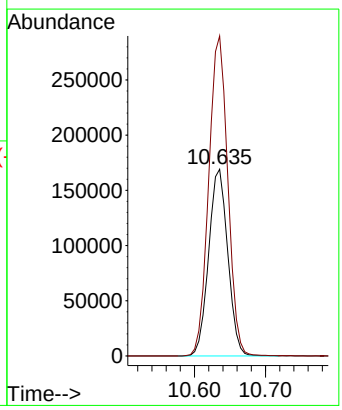


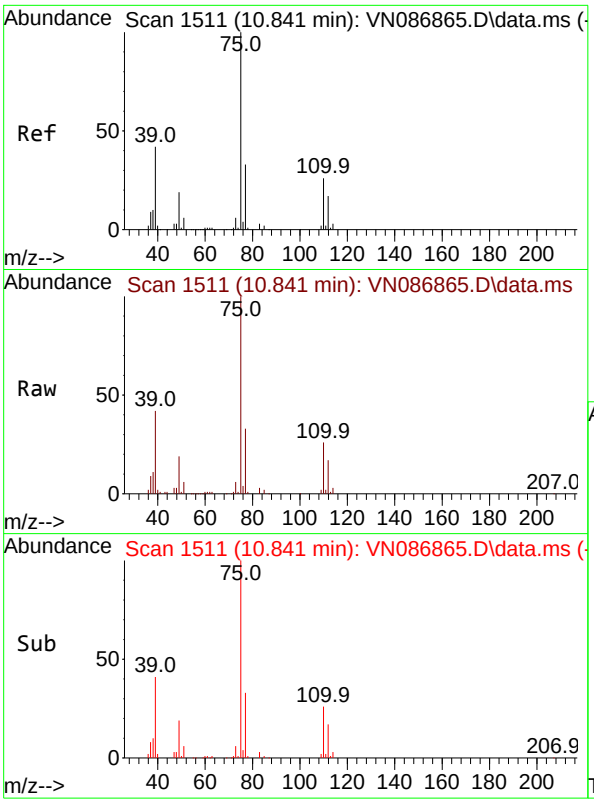


#52
Toluene
Concen: 47.331 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 92 Resp: 316219

Ion	Ratio	Lower	Upper
92	100		
91	170.6	136.5	204.7

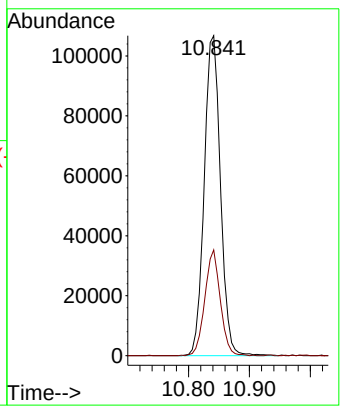




#53
t-1,3-Dichloropropene
Concen: 48.587 ug/l
RT: 10.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 75 Resp: 19747

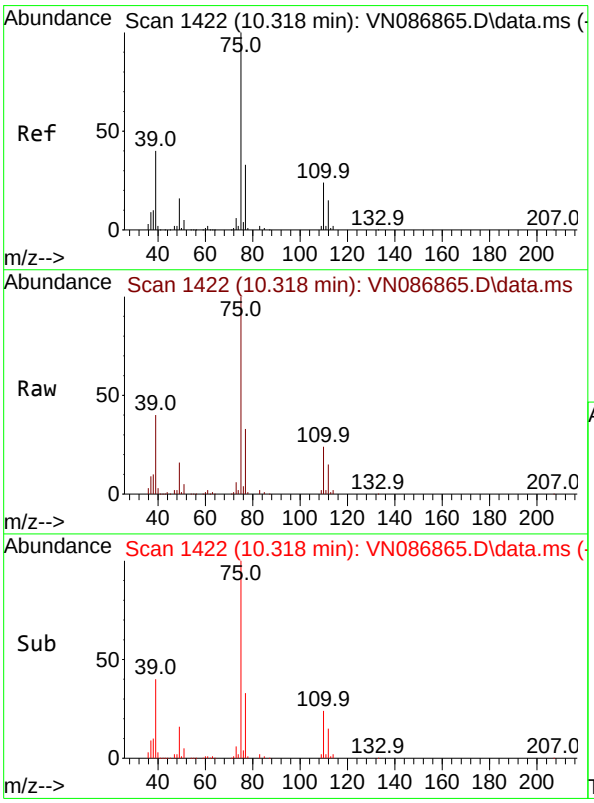
Ion	Ratio	Lower	Upper
75	100		
77	33.0	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

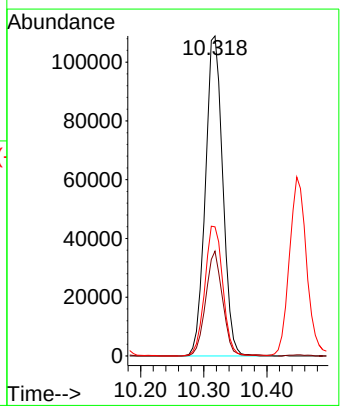
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

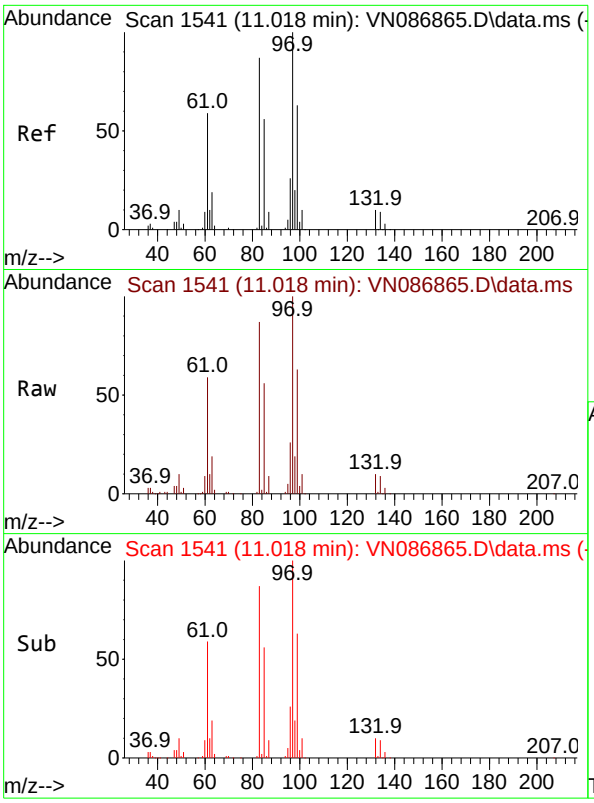


#54
cis-1,3-Dichloropropene
Concen: 47.950 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 75 Resp: 208523

Ion	Ratio	Lower	Upper
75	100		
77	32.8	26.2	39.4
39	40.4	32.3	48.5

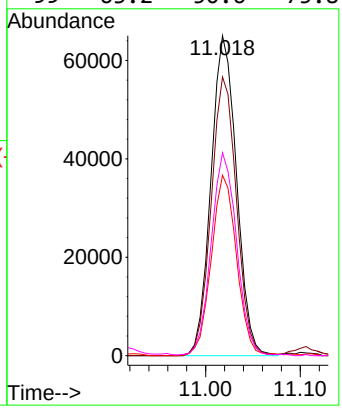




#55
1,1,2-Trichloroethane
Concen: 47.445 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 97 Resp: 12196

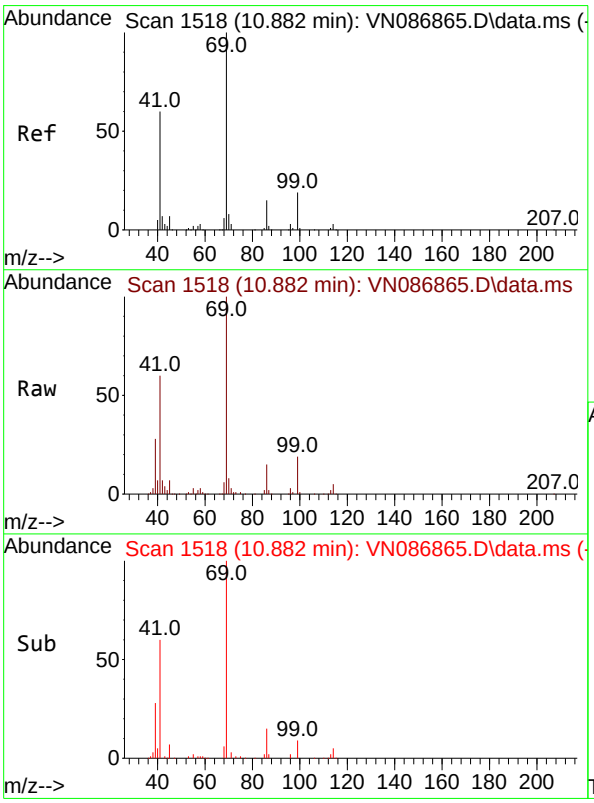
Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.7	104.5
85	56.4	45.1	67.7
99	63.2	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

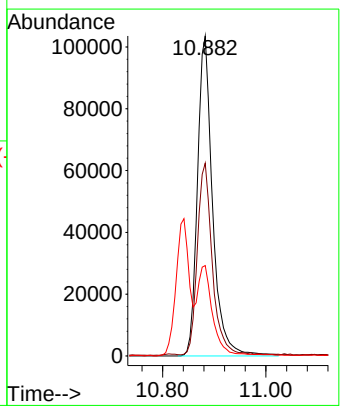
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

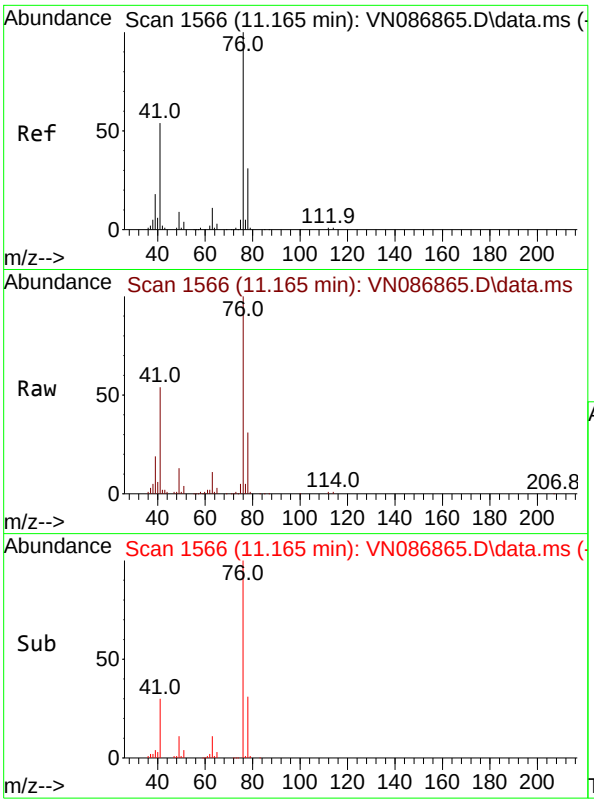


#56
Ethyl methacrylate
Concen: 51.401 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 69 Resp: 210467

Ion	Ratio	Lower	Upper
69	100		
41	59.0	47.2	70.8
39	28.8	23.0	34.6

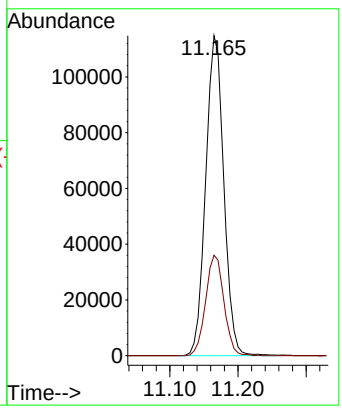




#57
1,3-Dichloropropane
Concen: 47.593 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 76 Resp: 21224

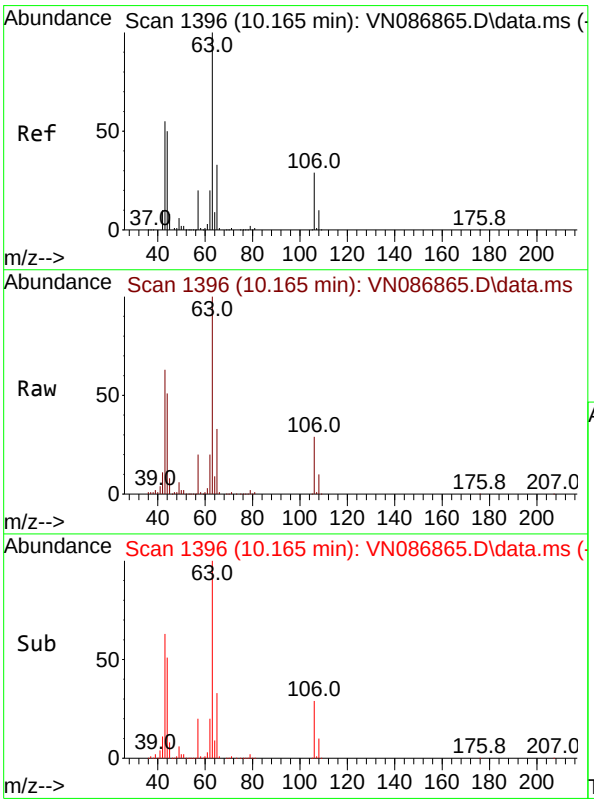
Ion	Ratio	Lower	Upper
76	100		
78	31.6	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

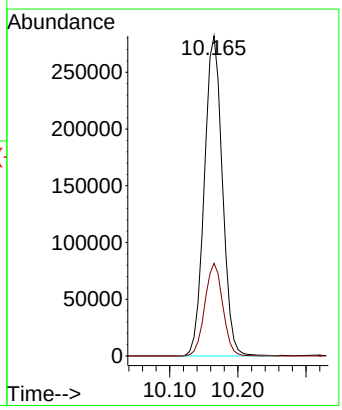
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

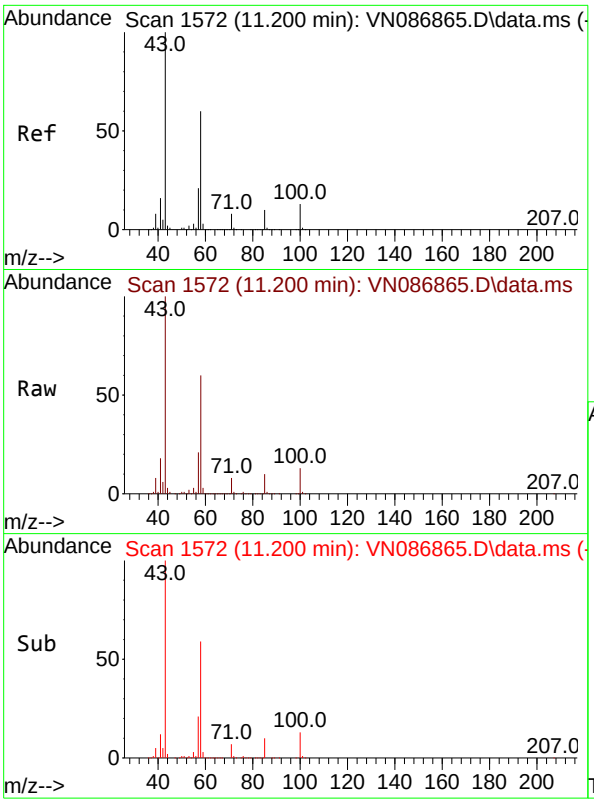


#58
2-Chloroethyl Vinyl ether
Concen: 212.570 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 63 Resp: 519139

Ion	Ratio	Lower	Upper
63	100		
106	28.8	23.0	34.6





#59
2-Hexanone
Concen: 262.977 ug/l
RT: 11.200 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

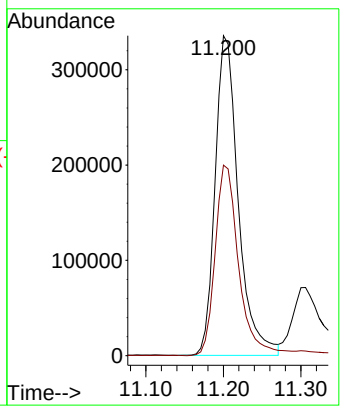
Tgt Ion: 43 Resp: 69656

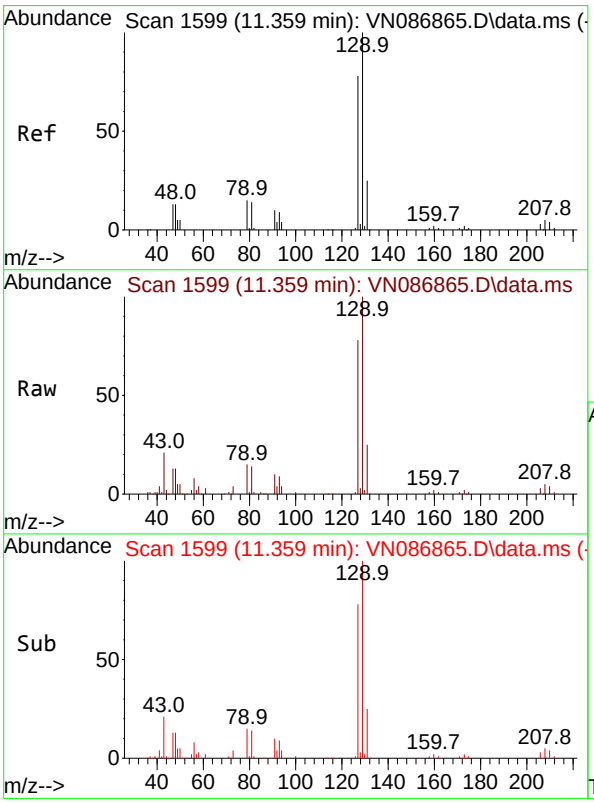
Ion	Ratio	Lower	Upper
43	100		
58	60.9	30.4	91.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

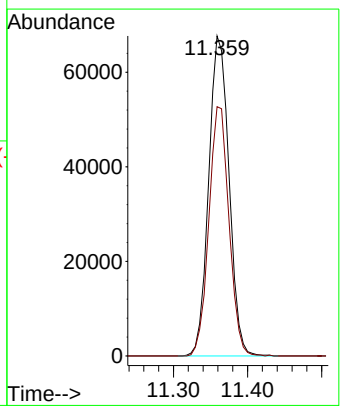


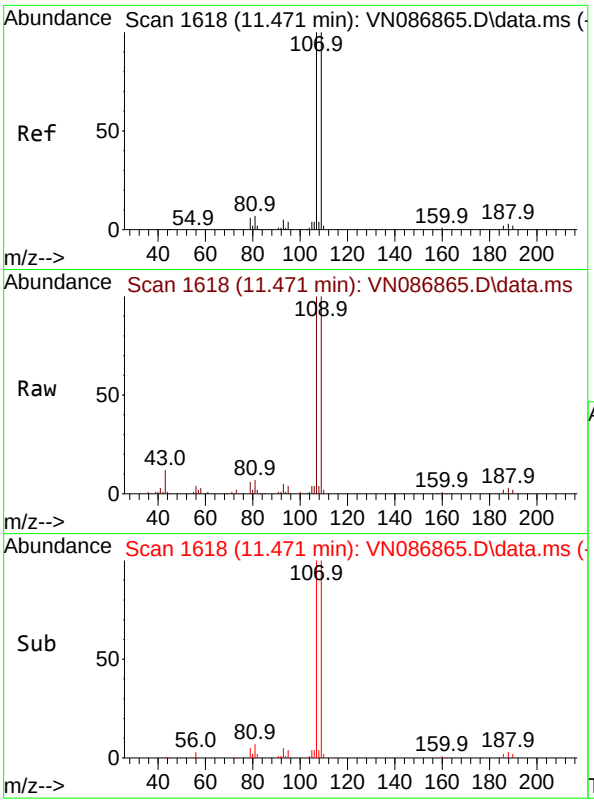


#60
Dibromochloromethane
Concen: 48.056 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:129 Resp: 128715

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.6	115.8

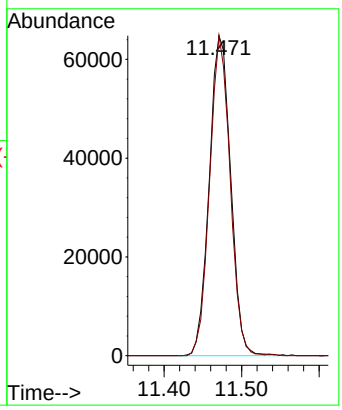




#61
1,2-Dibromoethane
Concen: 47.258 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:107 Resp: 12452

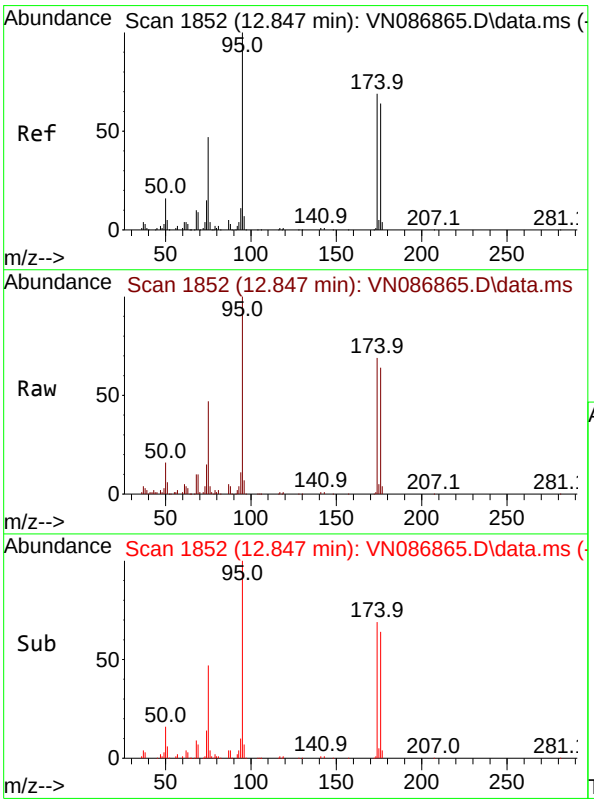
Ion	Ratio	Lower	Upper
107	100		
109	95.4	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

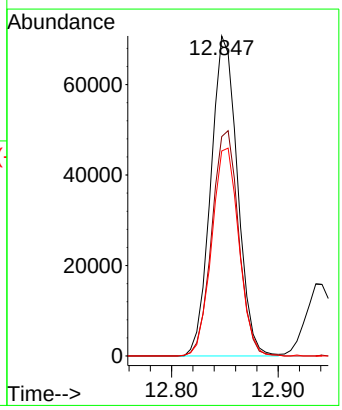
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

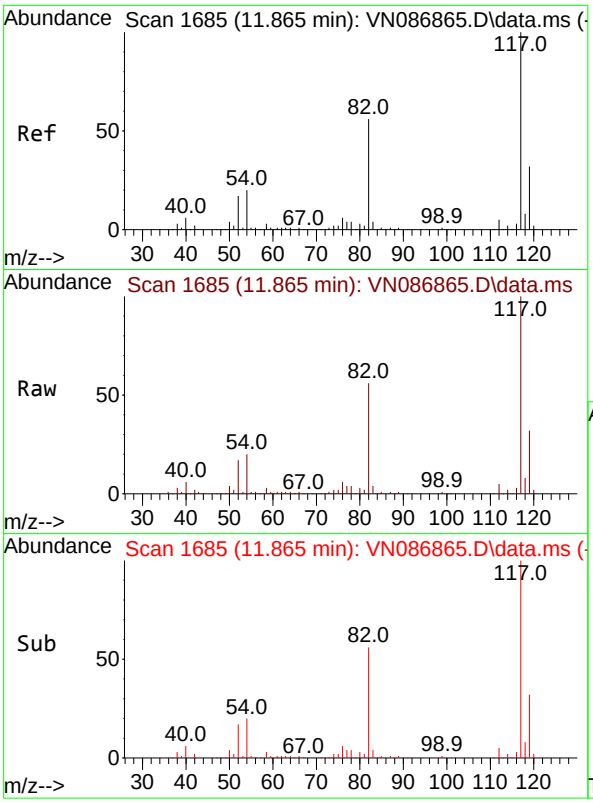


#62
4-Bromofluorobenzene
Concen: 37.264 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 95 Resp: 122965

Ion	Ratio	Lower	Upper
95	100		
174	70.9	0.0	141.8
176	66.3	0.0	132.6

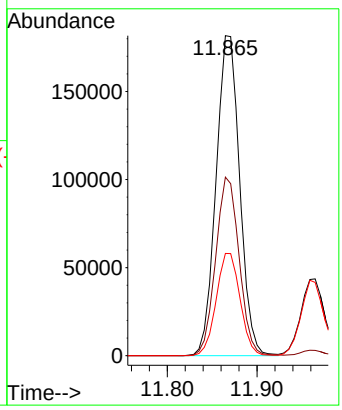




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:117 Resp: 33276

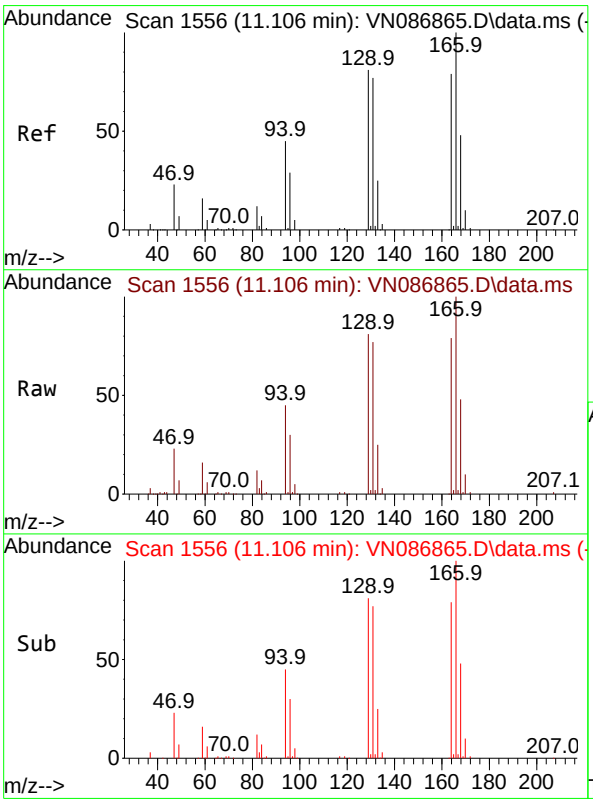
Ion	Ratio	Lower	Upper
117	100		
82	55.8	44.6	67.0
119	31.9	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

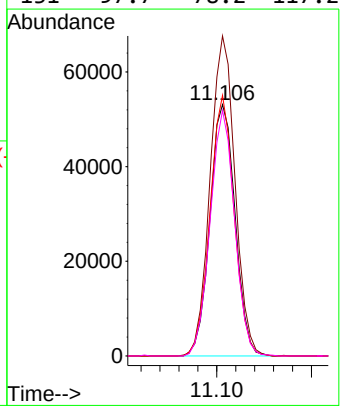
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

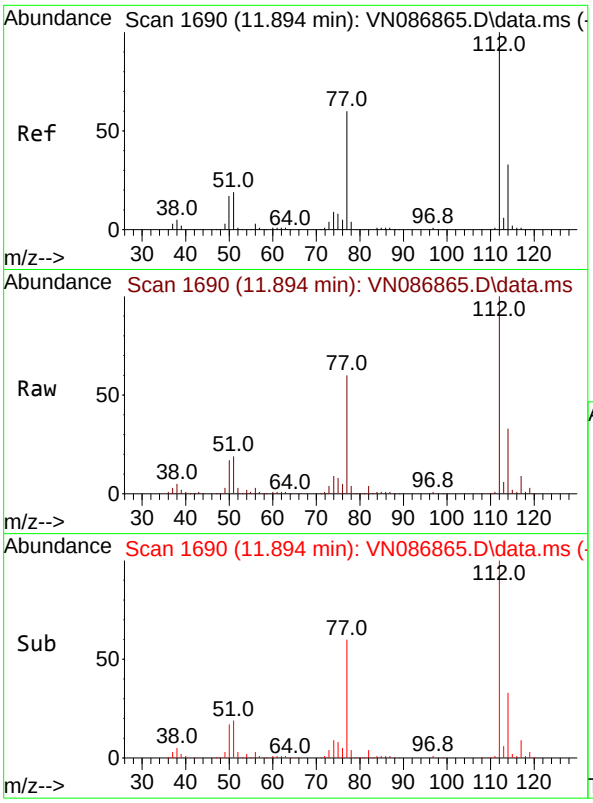


#64
Tetrachloroethene
Concen: 46.382 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:164 Resp: 97679

Ion	Ratio	Lower	Upper
164	100		
166	127.3	101.8	152.8
129	103.7	83.0	124.4
131	97.7	78.2	117.2

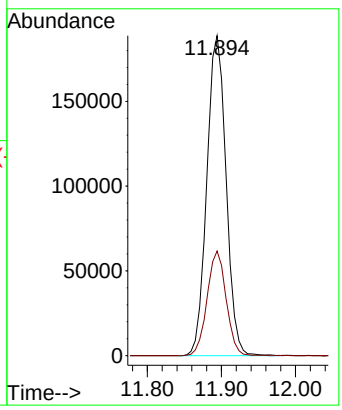




#65
Chlorobenzene
Concen: 46.386 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:112 Resp: 34043

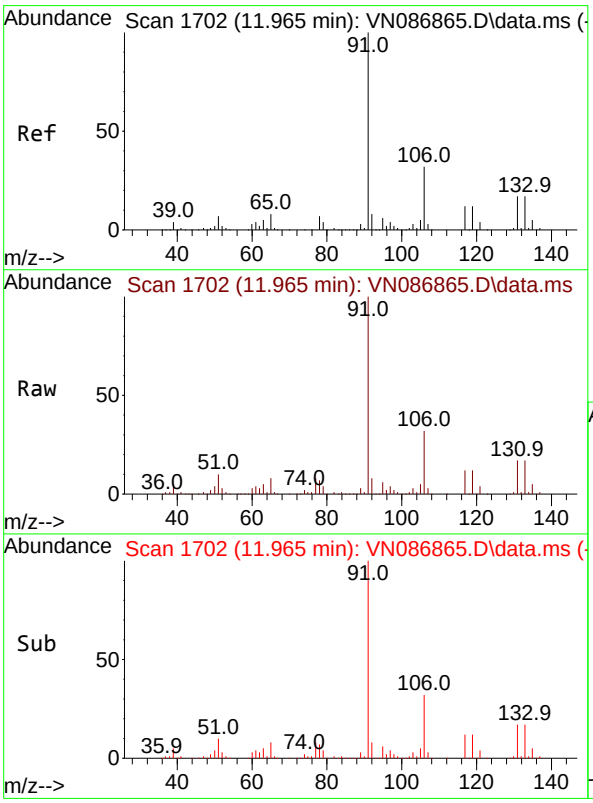
Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

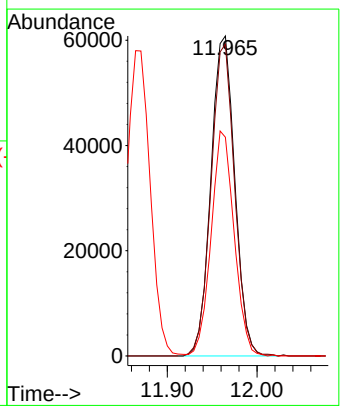
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

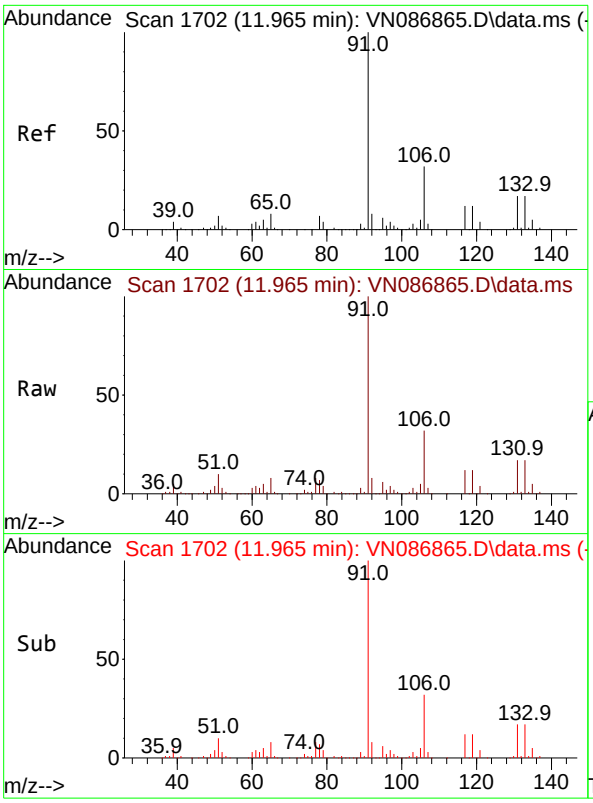


#66
1,1,1,2-Tetrachloroethane
Concen: 47.615 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:131 Resp: 112333

Ion	Ratio	Lower	Upper
131	100		
133	96.5	48.3	144.8
119	67.9	34.0	101.8





#67
Ethyl Benzene
Concen: 47.271 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

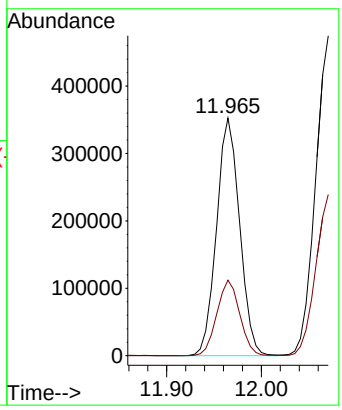
Tgt Ion: 91 Resp: 59759

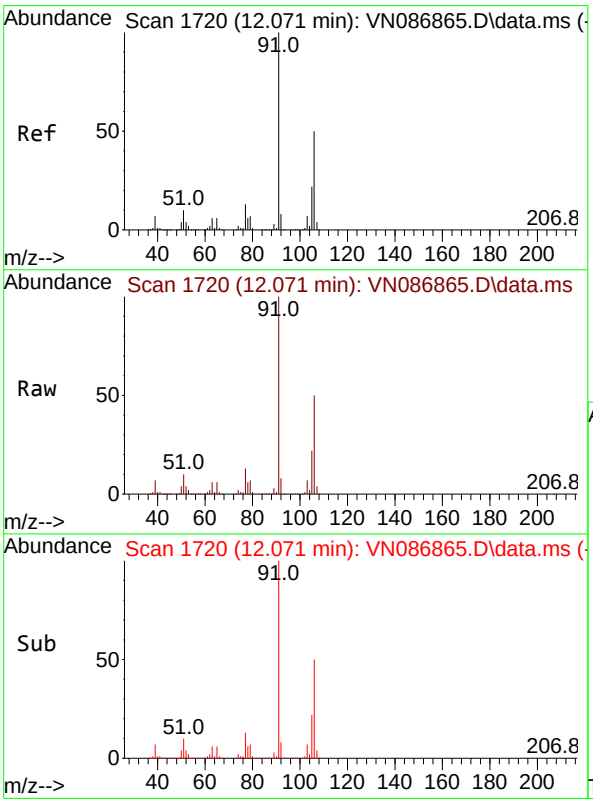
Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.4	38.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

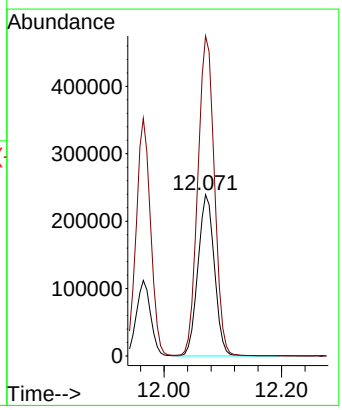


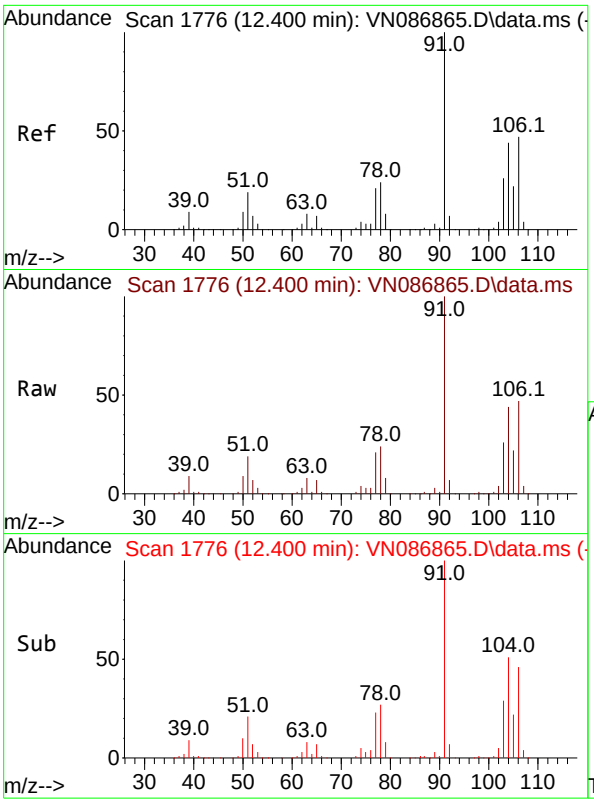


#68
m/p-Xylenes
Concen: 96.424 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:106 Resp: 466620

Ion	Ratio	Lower	Upper
106	100		
91	199.2	159.4	239.0

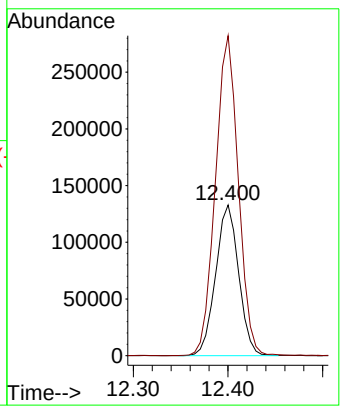




#69
o-Xylene
Concen: 48.395 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:106 Resp: 22429

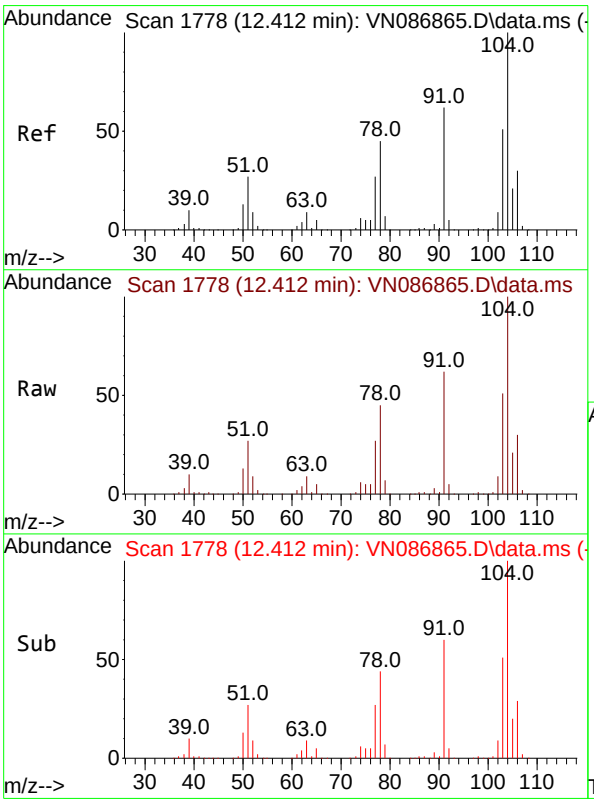
Ion	Ratio	Lower	Upper
106	100		
91	212.1	106.1	318.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

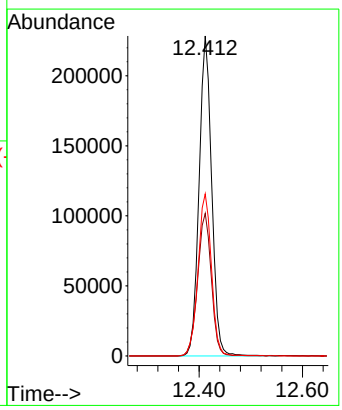
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

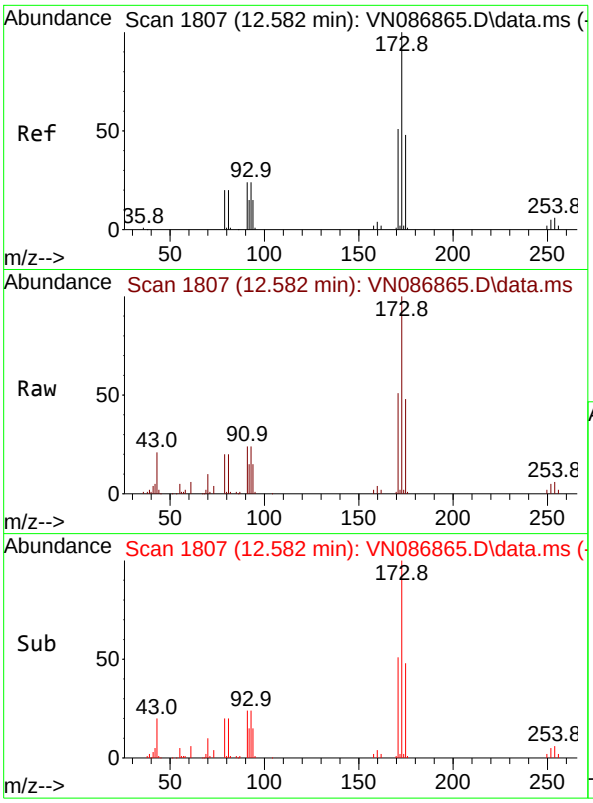


#70
Styrene
Concen: 48.745 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:104 Resp: 386596

Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.5	57.7
103	53.9	43.1	64.7

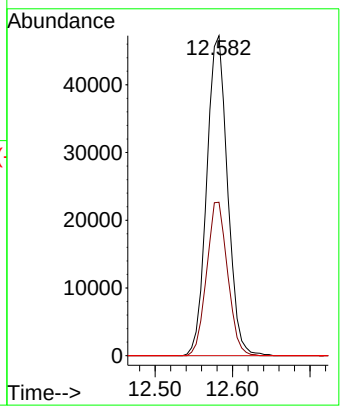




#71
Bromoform
Concen: 50.415 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:173 Resp: 8812

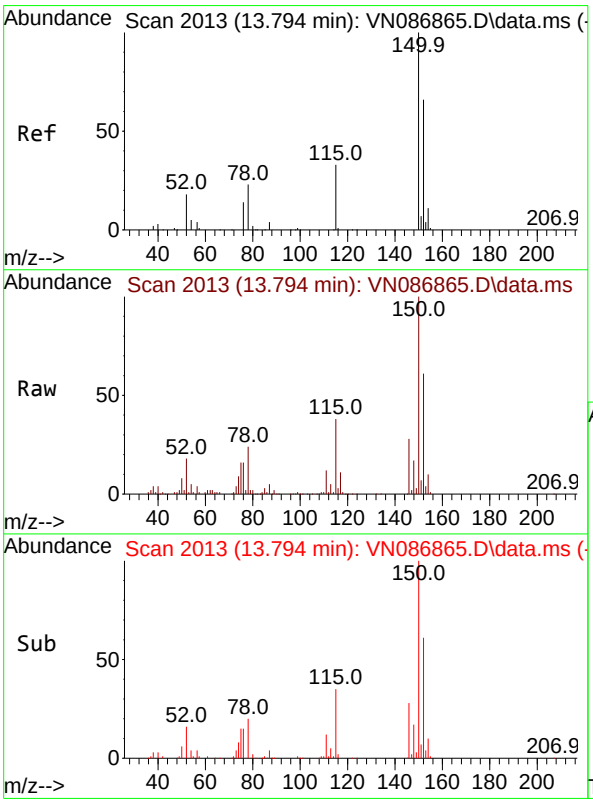
Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

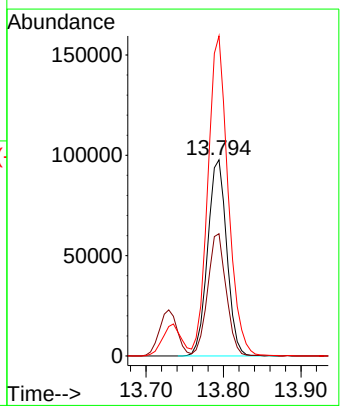
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

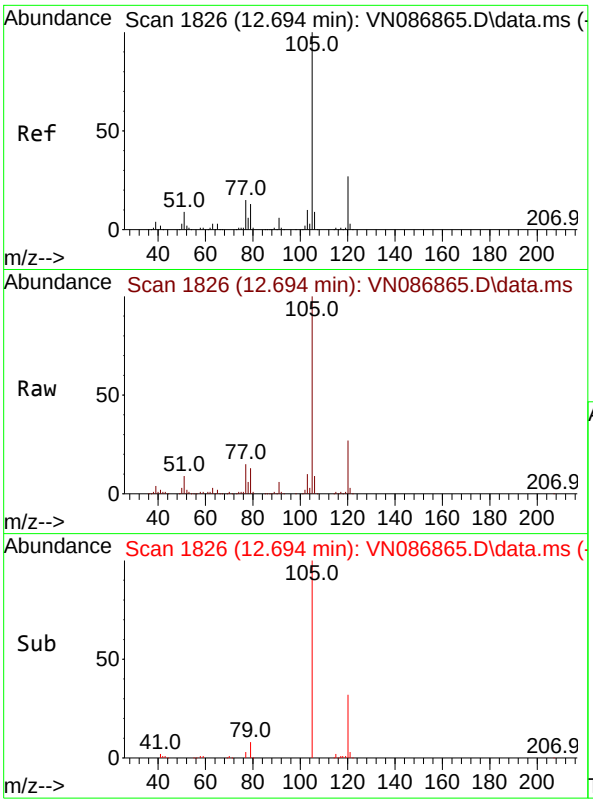


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:152 Resp: 167532

Ion	Ratio	Lower	Upper
152	100		
115	60.3	30.1	90.5
150	172.5	0.0	345.0

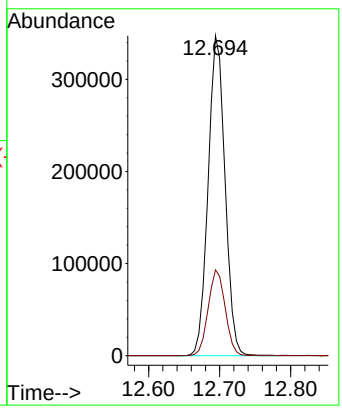




#73
Isopropylbenzene
Concen: 47.023 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:105 Resp: 57390

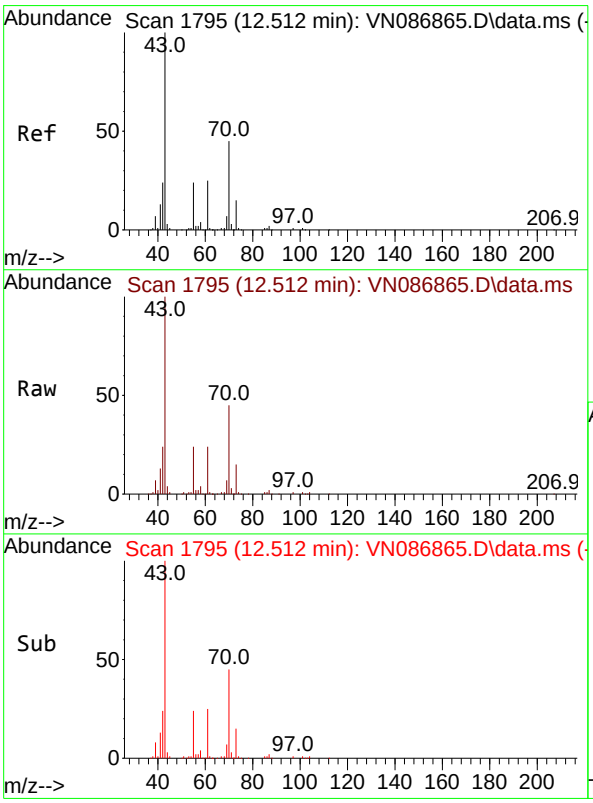
Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

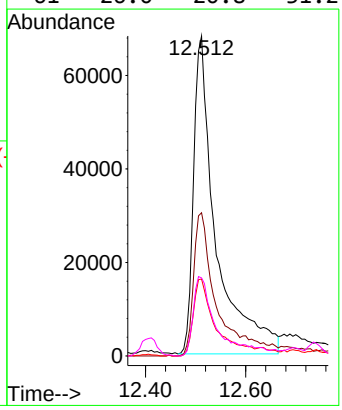
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

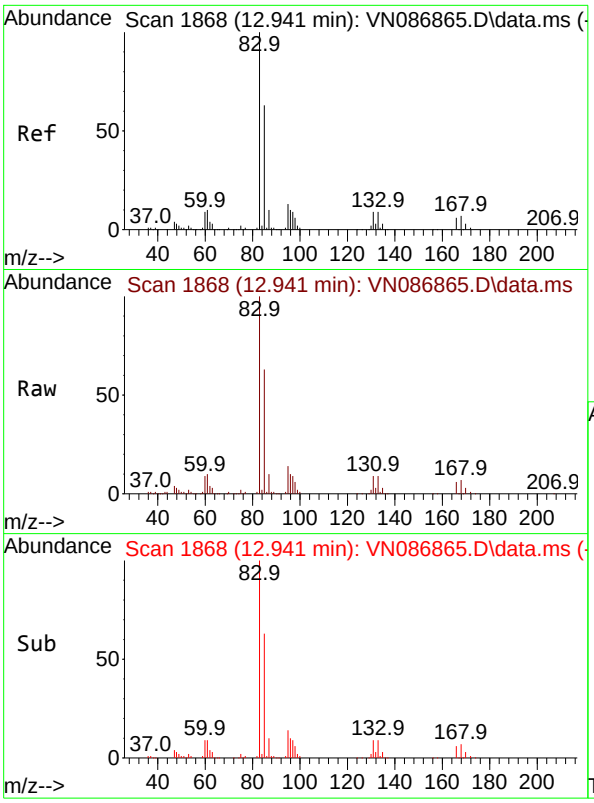


#74
N-amyl acetate
Concen: 52.353 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 43 Resp: 212064

Ion	Ratio	Lower	Upper
43	100		
70	47.0	37.6	56.4
55	23.8	19.0	28.6
61	26.0	20.8	31.2

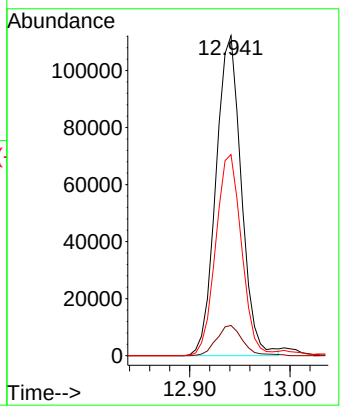




#75
1,1,2,2-Tetrachloroethane
Concen: 47.732 ug/l
RT: 12.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 83 Resp: 19736

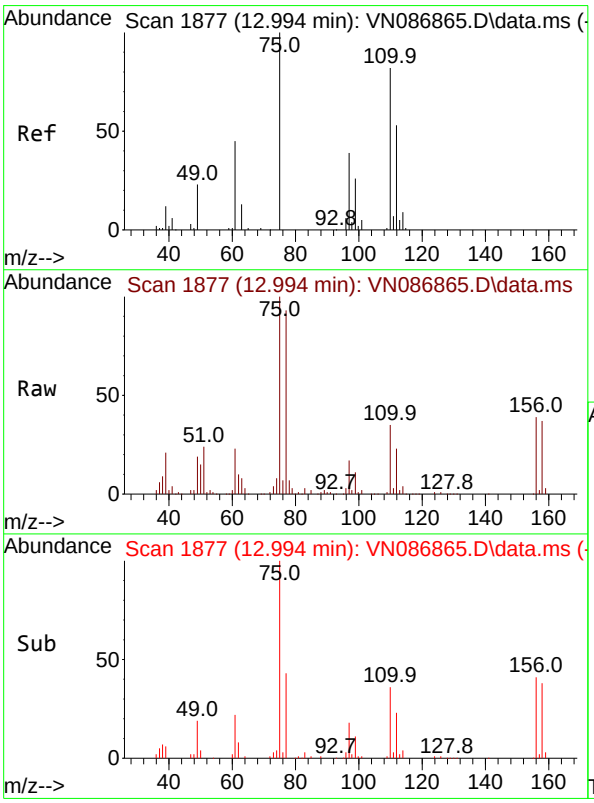
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	64.0	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

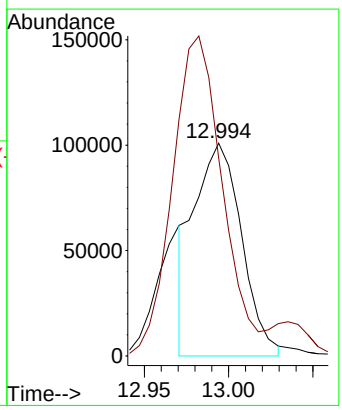
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

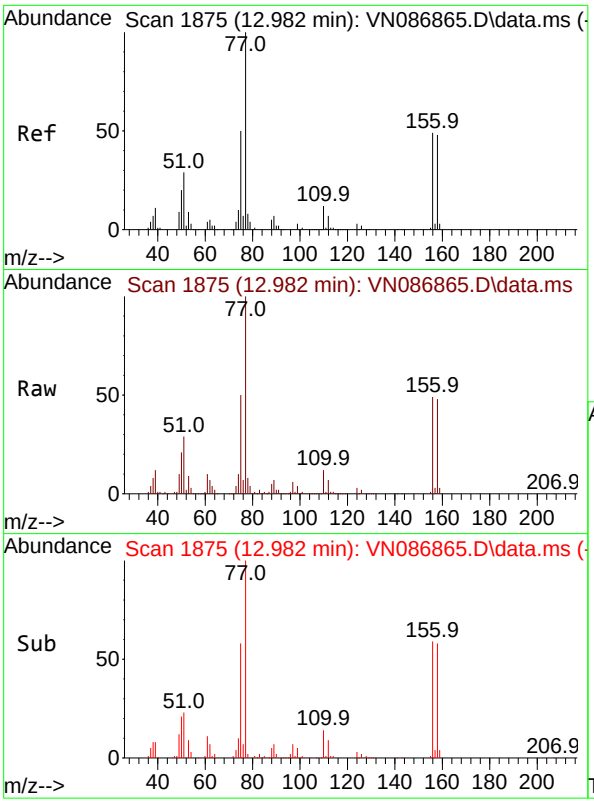


#76
1,2,3-Trichloropropane
Concen: 49.183 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 75 Resp: 196473

Ion	Ratio	Lower	Upper
75	100		
77	158.6	79.3	237.9





#77
Bromobenzene
Concen: 47.296 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

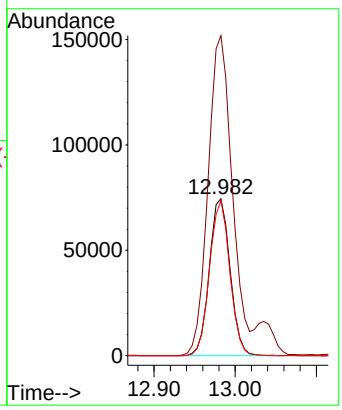
Tgt Ion:156 Resp: 13238

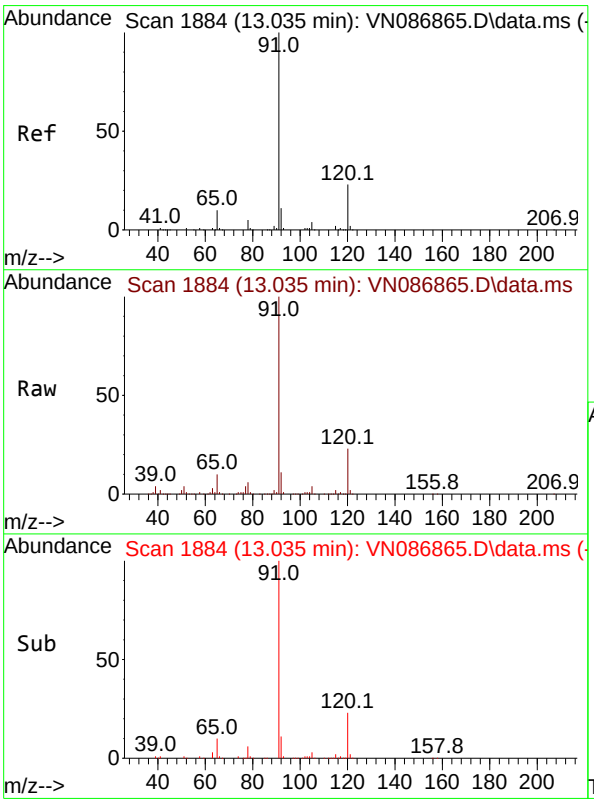
Ion	Ratio	Lower	Upper
156	100		
77	235.4	117.7	353.1
158	96.3	48.1	144.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

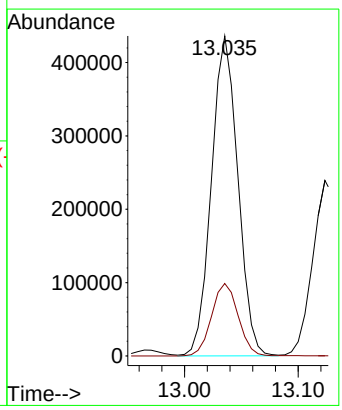


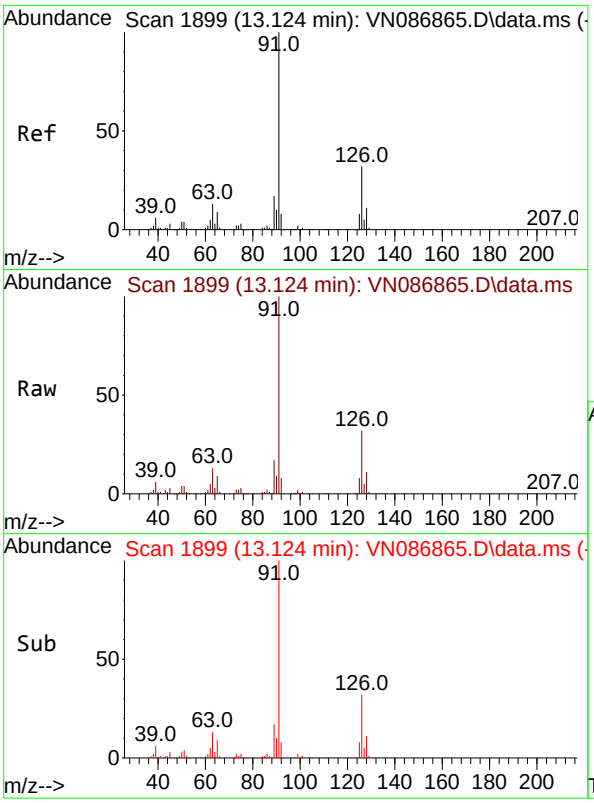


#78
n-propylbenzene
Concen: 47.567 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 91 Resp: 705524

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.4	34.2

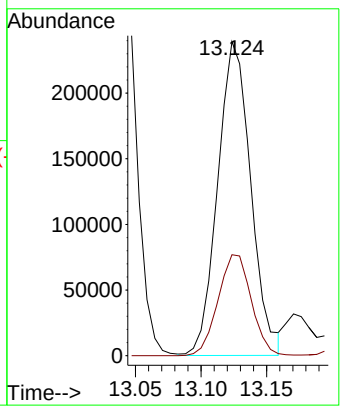




#79
2-Chlorotoluene
Concen: 47.216 ug/l
RT: 13.124 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 91 Resp: 41998

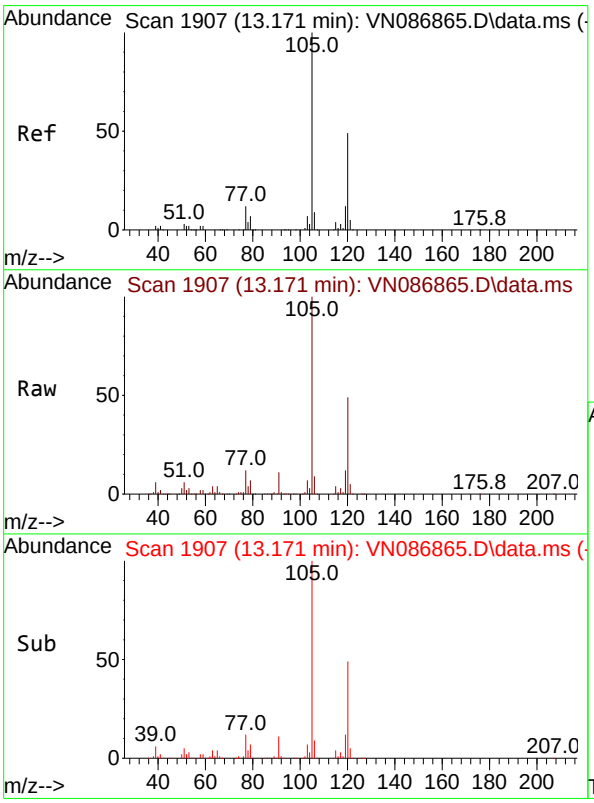
Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.2	48.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

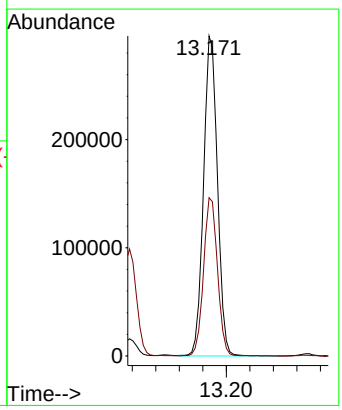
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

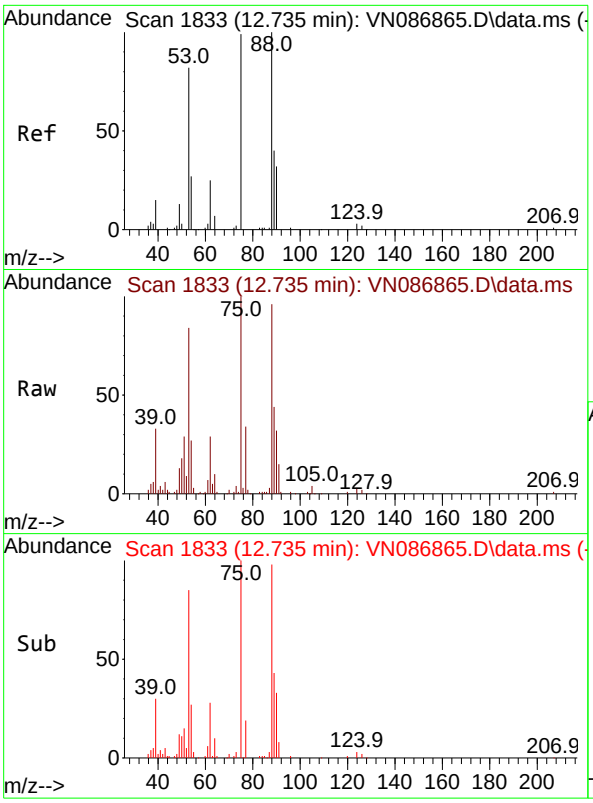


#80
1,3,5-Trimethylbenzene
Concen: 48.181 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:105 Resp: 485499

Ion	Ratio	Lower	Upper
105	100		
120	49.7	24.9	74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 46.089 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

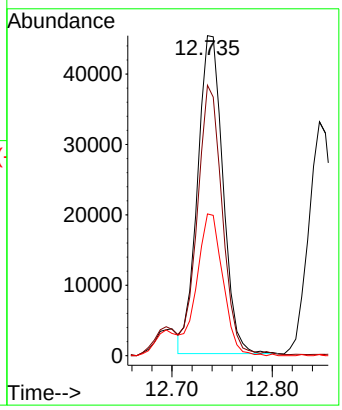
Tgt Ion: 75 Resp: 7973

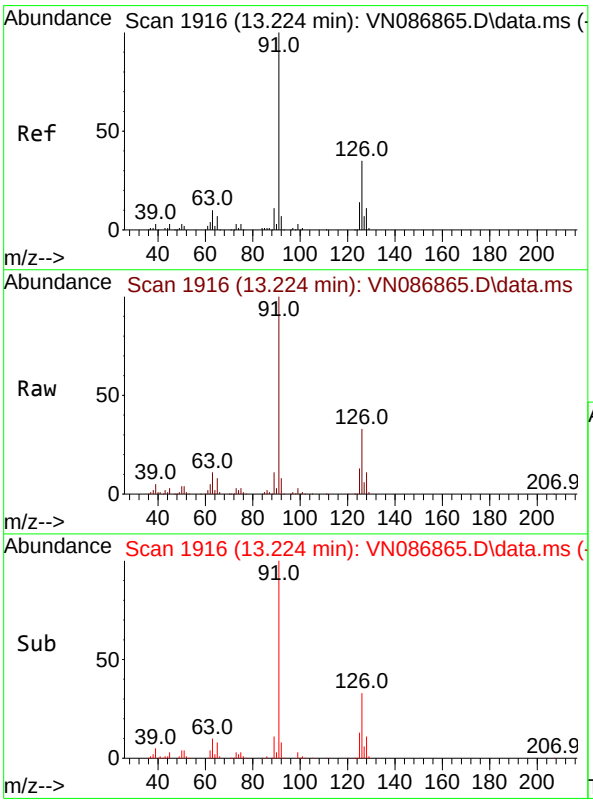
Ion	Ratio	Lower	Upper
75	100		
53	83.2	66.6	99.8
89	45.9	36.7	55.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

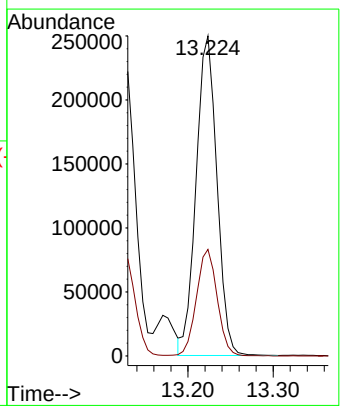


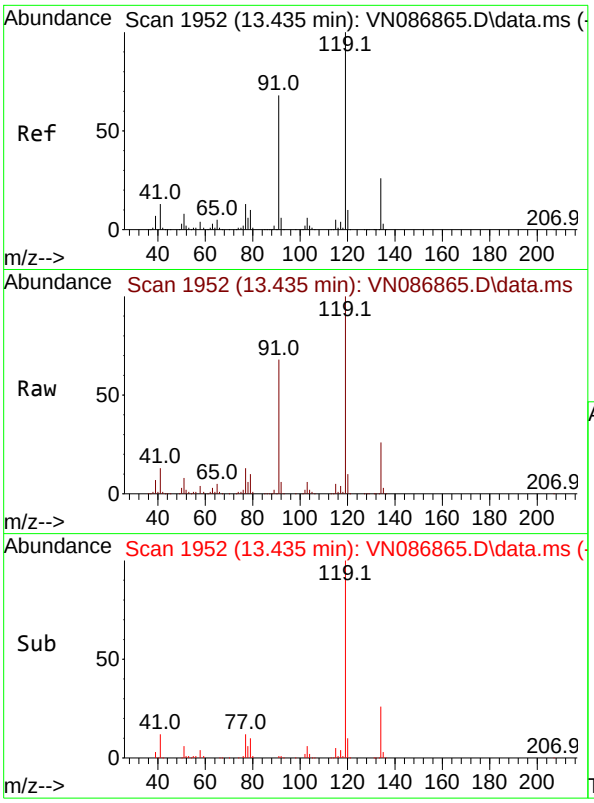


#82
4-Chlorotoluene
Concen: 47.117 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 91 Resp: 424066

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.7	50.1

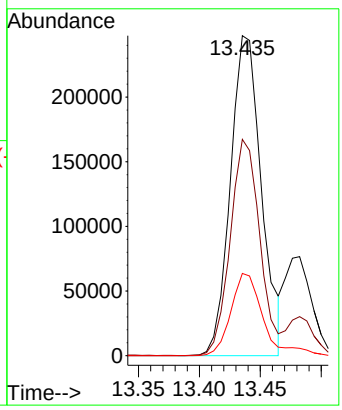




#83
tert-Butylbenzene
Concen: 47.531 ug/l
RT: 13.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:119 Resp: 43841

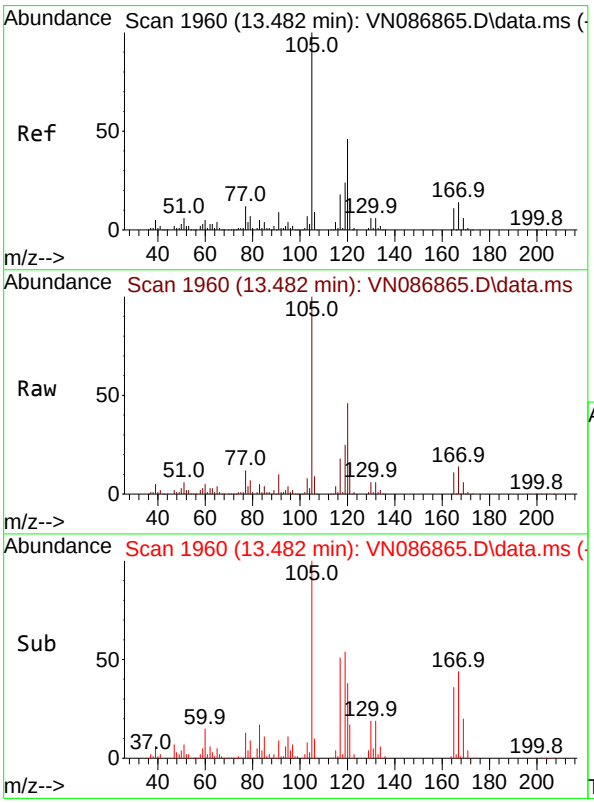
Ion	Ratio	Lower	Upper
119	100		
91	64.3	32.1	96.5
134	26.7	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

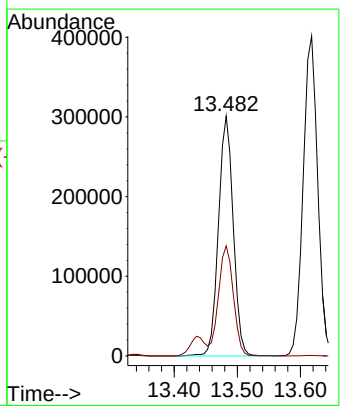
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

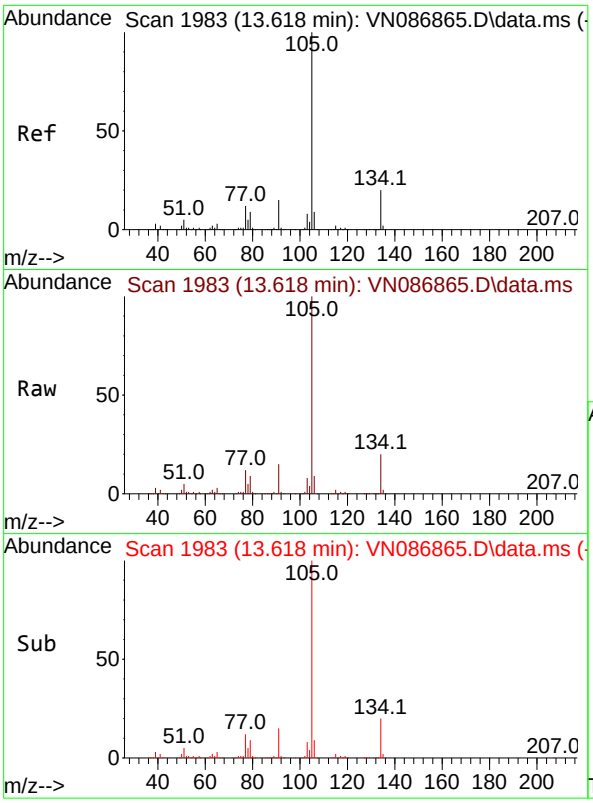


#84
1,2,4-Trimethylbenzene
Concen: 48.314 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:105 Resp: 488189

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.2	69.6

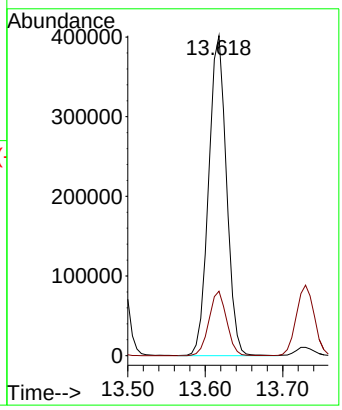




#85
sec-Butylbenzene
Concen: 47.893 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:105 Resp: 64152

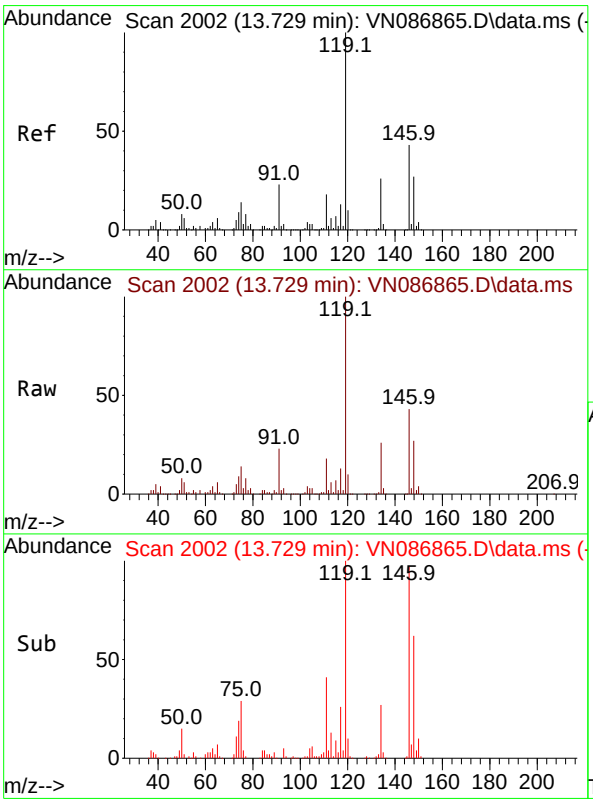
Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	30.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

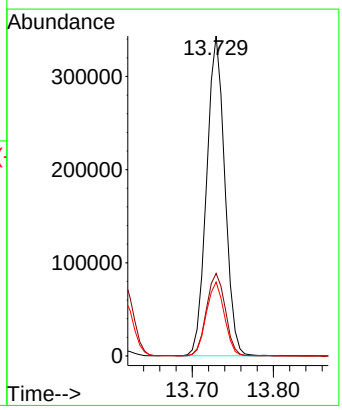
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

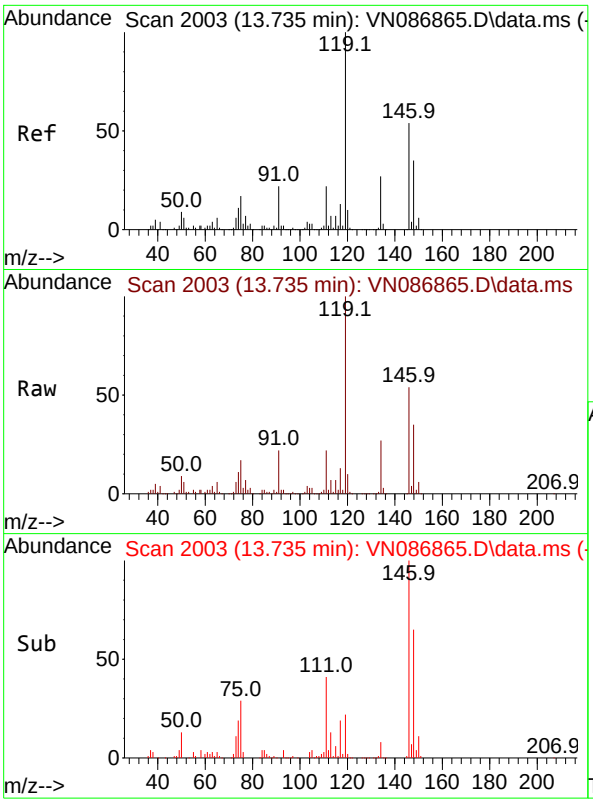


#86
p-Isopropyltoluene
Concen: 48.169 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:119 Resp: 533366

Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.5	40.4
91	22.9	11.5	34.4

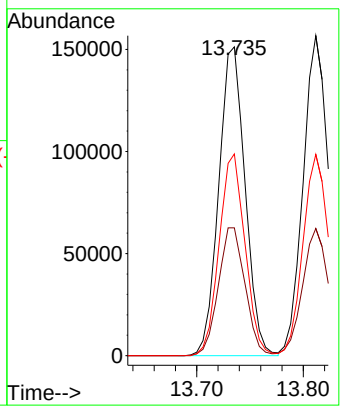




#87
1,3-Dichlorobenzene
Concen: 47.269 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:146 Resp: 26031

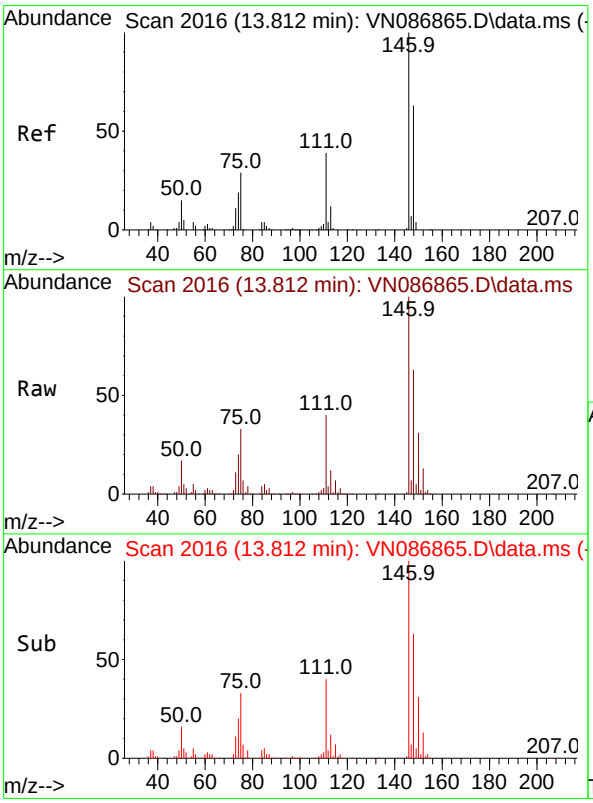
Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.9	62.8
148	64.1	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

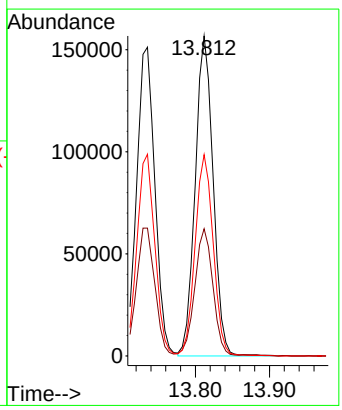
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

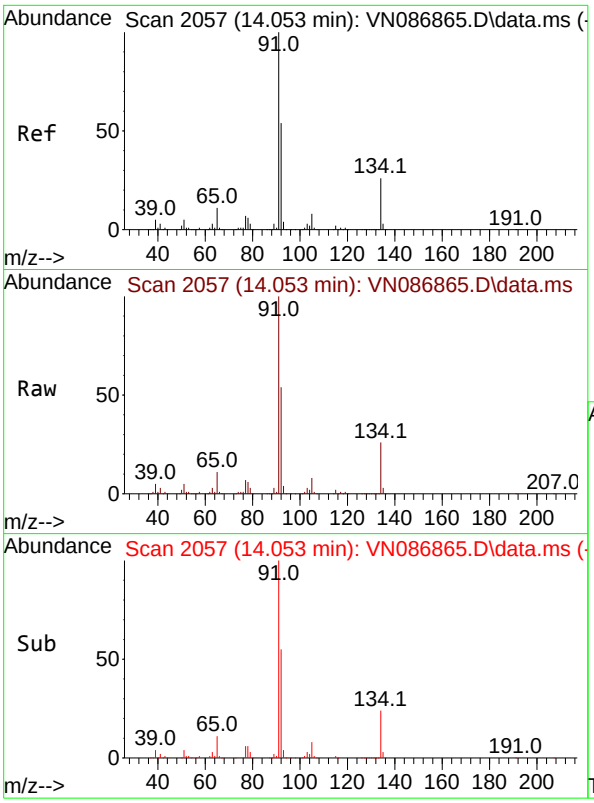


#88
1,4-Dichlorobenzene
Concen: 46.907 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:146 Resp: 263358

Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.9	59.7
148	63.6	31.8	95.4

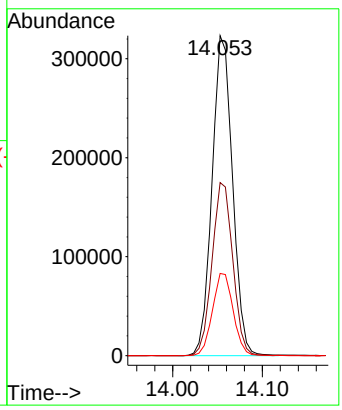




#89
n-Butylbenzene
Concen: 47.787 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 91 Resp: 51251

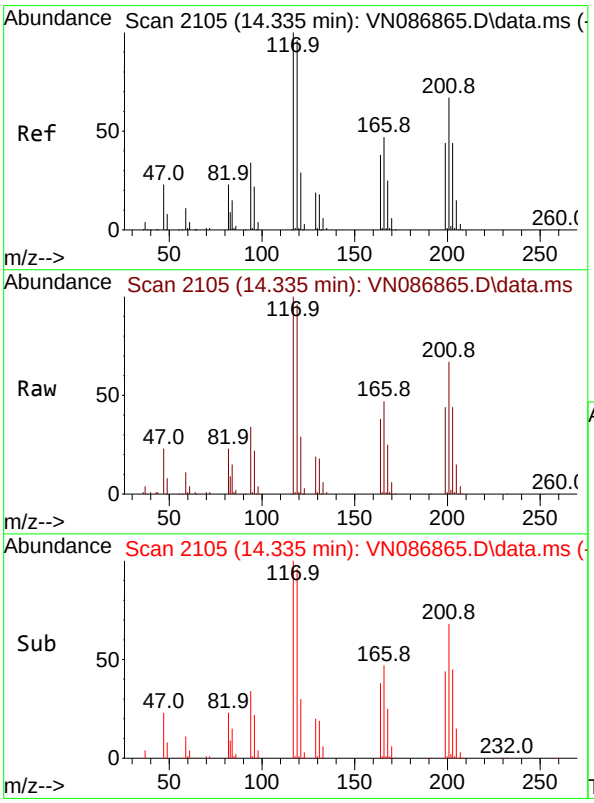
Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.5	82.4
134	26.0	13.0	39.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

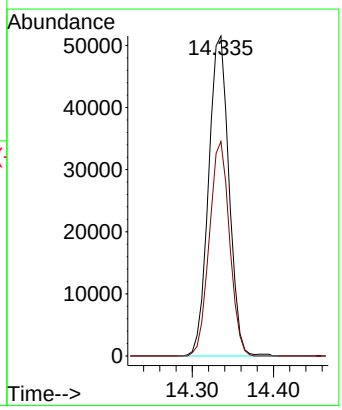
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

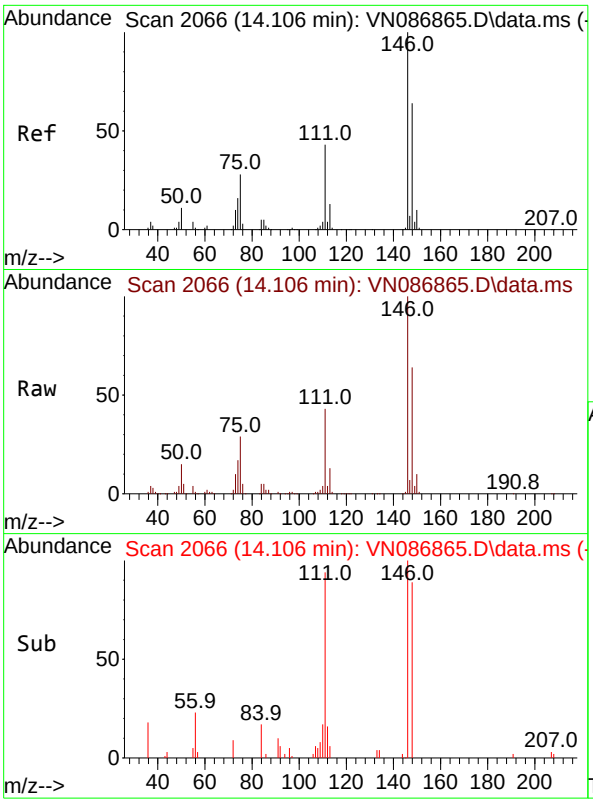


#90
Hexachloroethane
Concen: 47.896 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:117 Resp: 89896

Ion	Ratio	Lower	Upper
117	100		
201	66.4	33.2	99.6

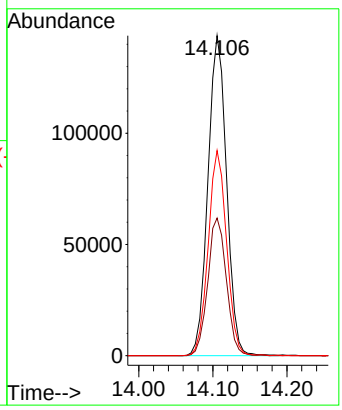




#91
1,2-Dichlorobenzene
Concen: 47.486 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:146 Resp: 25123

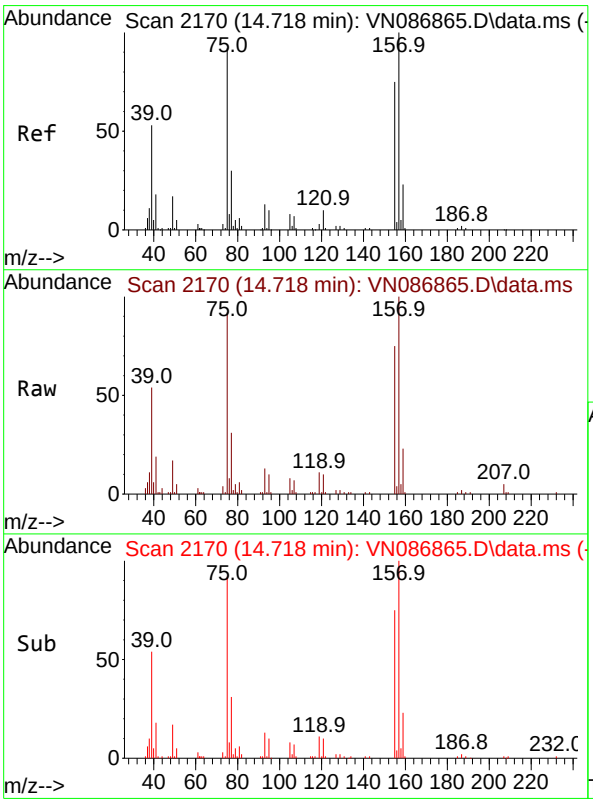
Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.6	64.6
148	63.4	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

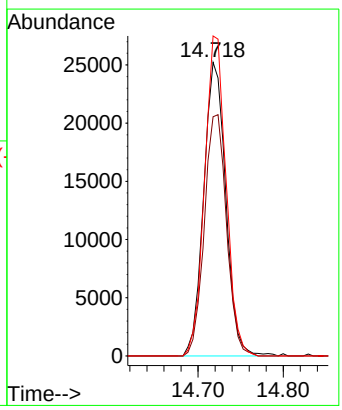
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

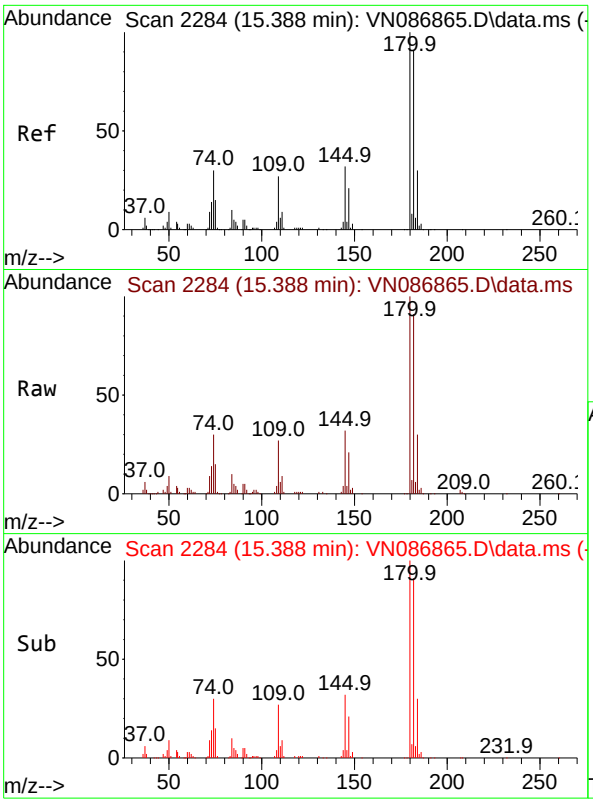


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.049 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 75 Resp: 45535

Ion	Ratio	Lower	Upper
75	100		
155	82.3	41.1	123.4
157	105.4	52.7	158.1

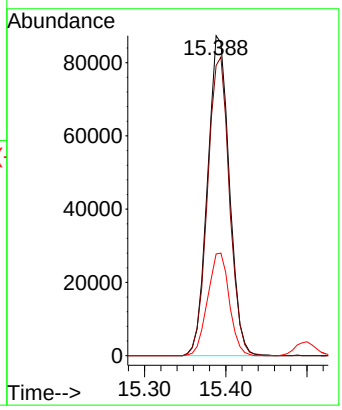




#93
1,2,4-Trichlorobenzene
Concen: 48.061 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:180 Resp: 16237

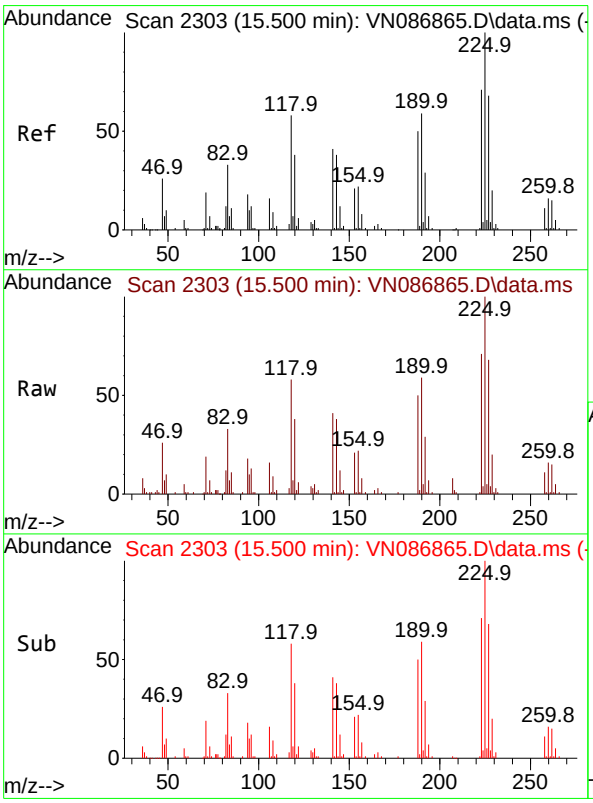
Ion	Ratio	Lower	Upper
180	100		
182	93.8	46.9	140.7
145	31.9	16.0	47.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

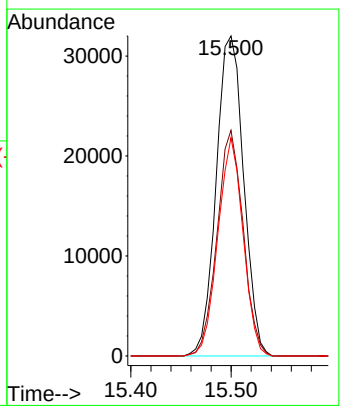
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

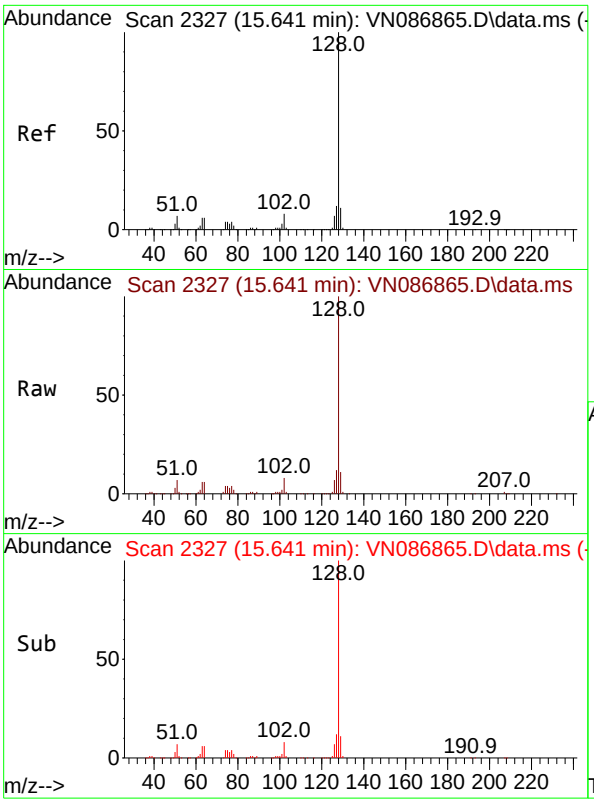


#94
Hexachlorobutadiene
Concen: 48.356 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:225 Resp: 60866

Ion	Ratio	Lower	Upper
225	100		
223	66.9	33.5	100.4
227	62.3	31.1	93.5

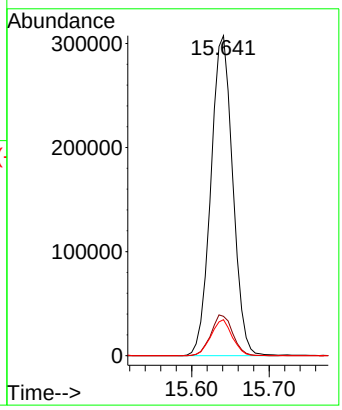




#95
Naphthalene
Concen: 47.958 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:128 Resp: 60308

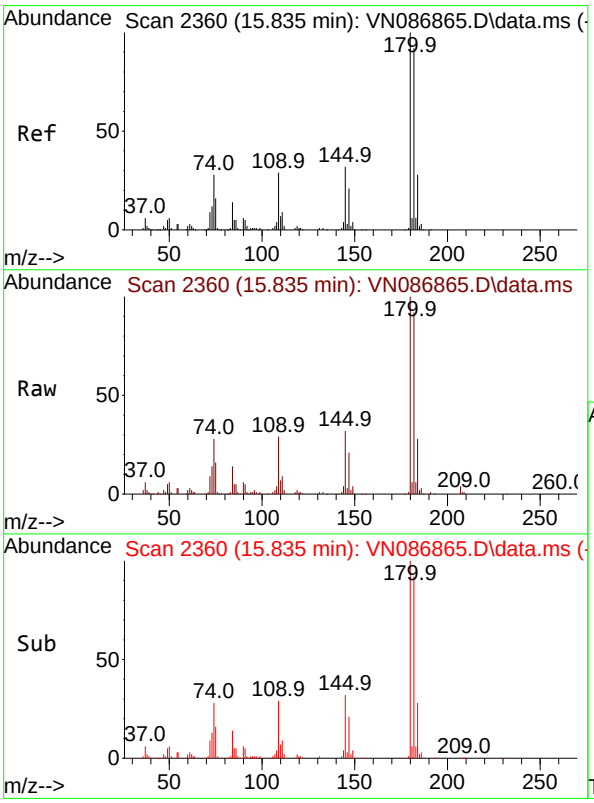
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

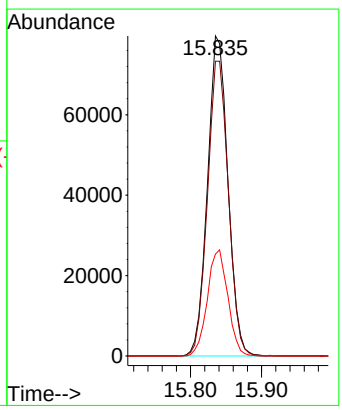
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 47.402 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:180 Resp: 159113

Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.0	141.0
145	33.2	16.6	49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086866.D
Acq On : 06 Jun 2025 14:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	181996	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	327782	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	290313	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	147098	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	238957	98.065	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 196.120%#			
35) Dibromofluoromethane	8.177	113	195212	100.495	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 200.980%#			
50) Toluene-d8	10.570	98	772210	100.419	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 200.840%#			
62) 4-Bromofluorobenzene	12.847	95	292385	102.339	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 204.680%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	194799	107.350	ug/l	100
3) Chloromethane	2.395	50	224558	95.833	ug/l	98
4) Vinyl Chloride	2.553	62	245135	101.414	ug/l	98
5) Bromomethane	2.977	94	137967	101.996	ug/l	99
6) Chloroethane	3.147	64	152150	97.447	ug/l	97
7) Trichlorofluoromethane	3.524	101	312394	98.917	ug/l	99
8) Diethyl Ether	3.983	74	139844	101.631	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.389	101	198739	100.163	ug/l	99
10) Methyl Iodide	4.612	142	262771	102.162	ug/l	99
11) Tert butyl alcohol	5.547	59	327987	496.062	ug/l	99
12) 1,1-Dichloroethene	4.359	96	200212	98.838	ug/l	99
13) Acrolein	4.200	56	94171	449.961	ug/l	98
14) Allyl chloride	5.047	41	329412	98.055	ug/l	99
15) Acrylonitrile	5.735	53	770470	498.552	ug/l	99
16) Acetone	4.447	43	608178	470.648	ug/l	98
17) Carbon Disulfide	4.736	76	544511	97.179	ug/l	100
18) Methyl Acetate	5.047	43	381808	101.390	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	735694	100.306	ug/l	100
20) Methylene Chloride	5.294	84	228800	94.575	ug/l	97
21) trans-1,2-Dichloroethene	5.806	96	215177	95.476	ug/l	99
22) Diisopropyl ether	6.688	45	696881	98.409	ug/l	98
23) Vinyl Acetate	6.618	43	2919350	487.936	ug/l	100
24) 1,1-Dichloroethane	6.588	63	404207	99.186	ug/l	99
25) 2-Butanone	7.494	43	1043385	496.743	ug/l	100
26) 2,2-Dichloropropane	7.500	77	331995	104.729	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	265248	98.410	ug/l	99
28) Bromochloromethane	7.824	49	188050	93.851	ug/l	99
29) Tetrahydrofuran	7.847	42	677636	495.240	ug/l	99
30) Chloroform	7.977	83	394927	97.040	ug/l	99
31) Cyclohexane	8.265	56	374933	94.869	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	336819	97.306	ug/l	99
36) 1,1-Dichloropropene	8.382	75	289907	100.156	ug/l	99
37) Ethyl Acetate	7.571	43	370652	100.591	ug/l	99
38) Carbon Tetrachloride	8.371	117	285325	100.404	ug/l	98
39) Methylcyclohexane	9.606	83	395603	99.758	ug/l	99
40) Benzene	8.612	78	927083	97.946	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086866.D
Acq On : 06 Jun 2025 14:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 01:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.794	41	195946	94.688	ug/l		95
42) 1,2-Dichloroethane	8.676	62	282015	98.232	ug/l		100
43) Isopropyl Acetate	8.694	43	579464	97.981	ug/l		99
44) Trichloroethene	9.359	130	222822	99.280	ug/l		97
45) 1,2-Dichloropropane	9.629	63	230454	100.077	ug/l		98
46) Dibromomethane	9.712	93	155530	101.685	ug/l		99
47) Bromodichloromethane	9.894	83	316375	100.533	ug/l		100
48) Methyl methacrylate	9.682	41	275710	101.288	ug/l		99
49) 1,4-Dioxane	9.706	88	104771	2115.744	ug/l	#	99
51) 4-Methyl-2-Pentanone	10.447	43	1843274	517.729	ug/l		99
52) Toluene	10.635	92	578978	100.092	ug/l		100
53) t-1,3-Dichloropropene	10.841	75	359200	102.077	ug/l		99
54) cis-1,3-Dichloropropene	10.318	75	383030	101.730	ug/l		99
55) 1,1,2-Trichloroethane	11.017	97	219922	98.808	ug/l		98
56) Ethyl methacrylate	10.882	69	389802	109.955	ug/l		99
57) 1,3-Dichloropropane	11.165	76	382510	99.069	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.165	63	1113523	526.621	ug/l		100
59) 2-Hexanone	11.200	43	1301539	567.535	ug/l		99
60) Dibromochloromethane	11.359	129	237965	102.616	ug/l		100
61) 1,2-Dibromoethane	11.470	107	232214	101.787	ug/l		98
64) Tetrachloroethene	11.106	164	181568	98.824	ug/l		94
65) Chlorobenzene	11.894	112	632563	98.793	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	206895	100.521	ug/l		100
67) Ethyl Benzene	11.964	91	1110803	100.717	ug/l		99
68) m/p-Xylenes	12.070	106	854557	202.411	ug/l		99
69) o-Xylene	12.400	106	412719	102.070	ug/l		100
70) Styrene	12.412	104	713548	103.127	ug/l		100
71) Bromoform	12.576	173	165781	108.707	ug/l	#	99
73) Isopropylbenzene	12.694	105	1065297	99.410	ug/l		100
74) N-amyl acetate	12.506	43	403587	113.475	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.941	83	354386	97.616	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	353334m	100.738	ug/l		
77) Bromobenzene	12.982	156	246413	100.266	ug/l		99
78) n-propylbenzene	13.035	91	1301631	99.948	ug/l		100
79) 2-Chlorotoluene	13.123	91	770308	98.630	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	901317	101.873	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	160736	105.820	ug/l		92
82) 4-Chlorotoluene	13.223	91	783657	99.166	ug/l		100
83) tert-Butylbenzene	13.435	119	807528	99.710	ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	904794	101.983	ug/l		100
85) sec-Butylbenzene	13.617	105	1182155	100.513	ug/l		99
86) p-Isopropyltoluene	13.729	119	990273	101.857	ug/l		100
87) 1,3-Dichlorobenzene	13.735	146	474162	98.063	ug/l		100
88) 1,4-Dichlorobenzene	13.811	146	483003	97.978	ug/l		99
89) n-Butylbenzene	14.053	91	937913	99.598	ug/l		100
90) Hexachloroethane	14.335	117	169772	103.019	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	458049	98.602	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	83243	95.877	ug/l		96
93) 1,2,4-Trichlorobenzene	15.394	180	298870	100.751	ug/l		99
94) Hexachlorobutadiene	15.500	225	112496	101.789	ug/l		98
95) Naphthalene	15.641	128	1129434	102.290	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	294127	99.796	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086866.D
Acq On : 06 Jun 2025 14:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 01:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

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

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

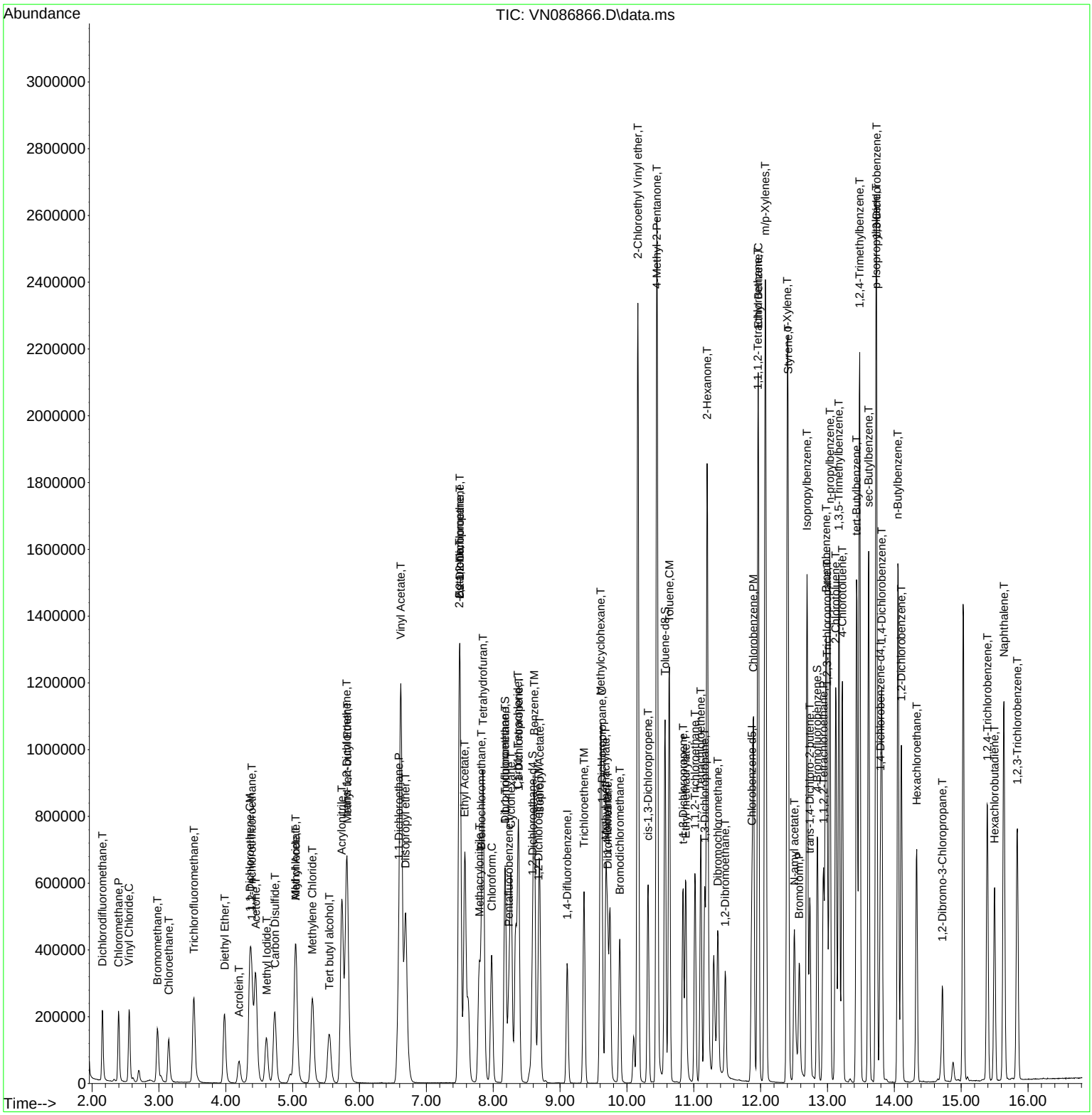
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086866.D
Acq On : 06 Jun 2025 14:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

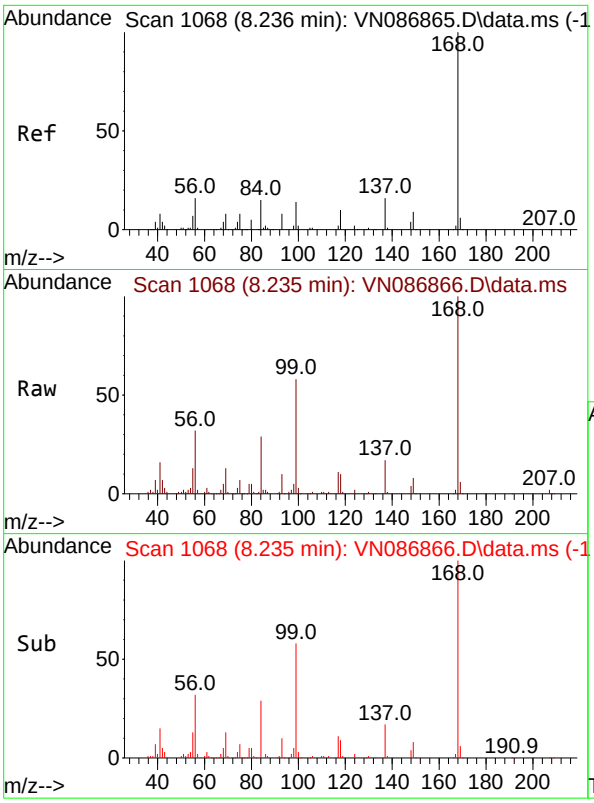
Quant Time: Jun 07 01:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

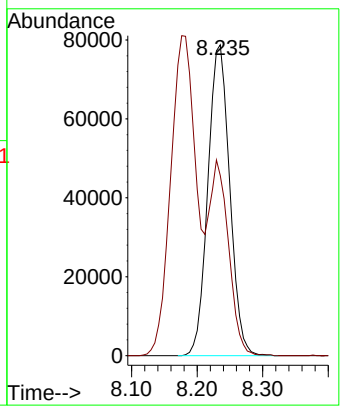




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:168 Resp: 18199

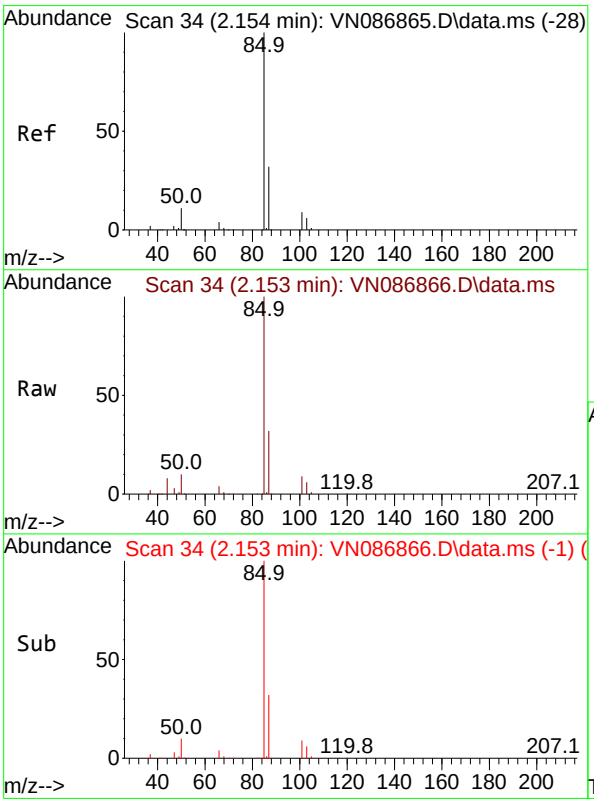
Ion	Ratio	Lower	Upper
168	100		
99	57.9	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

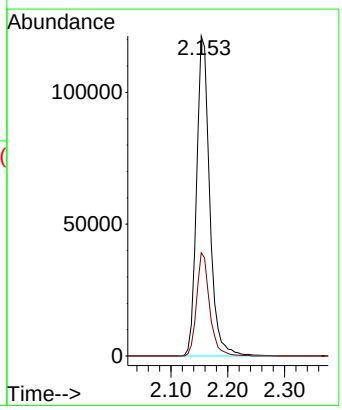
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

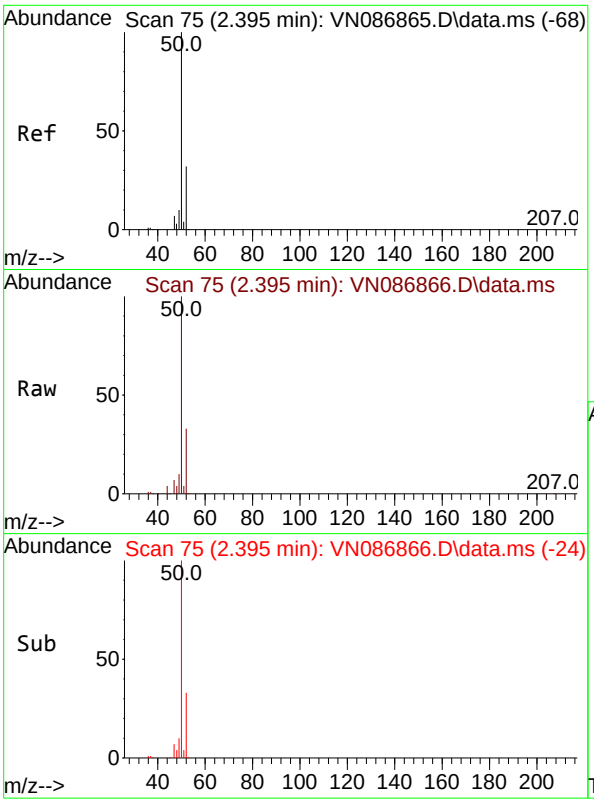


#2
Dichlorodifluoromethane
Concen: 107.350 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 85 Resp: 194799

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.2	48.6

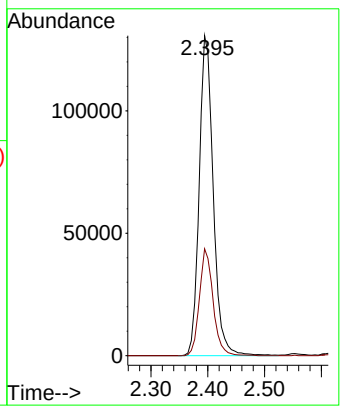




#3
Chloromethane
Concen: 95.833 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 50 Resp: 22455

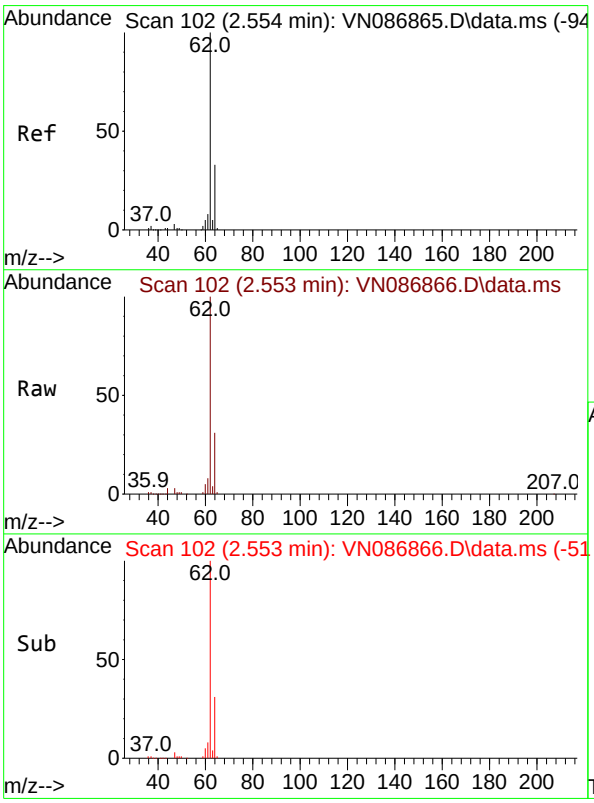
Ion	Ratio	Lower	Upper
50	100		
52	33.4	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

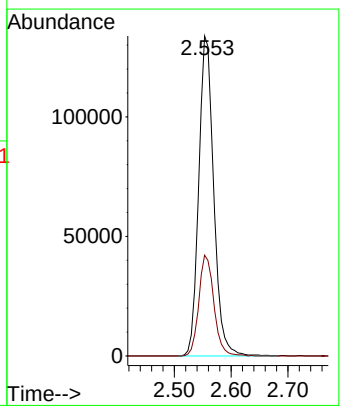
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

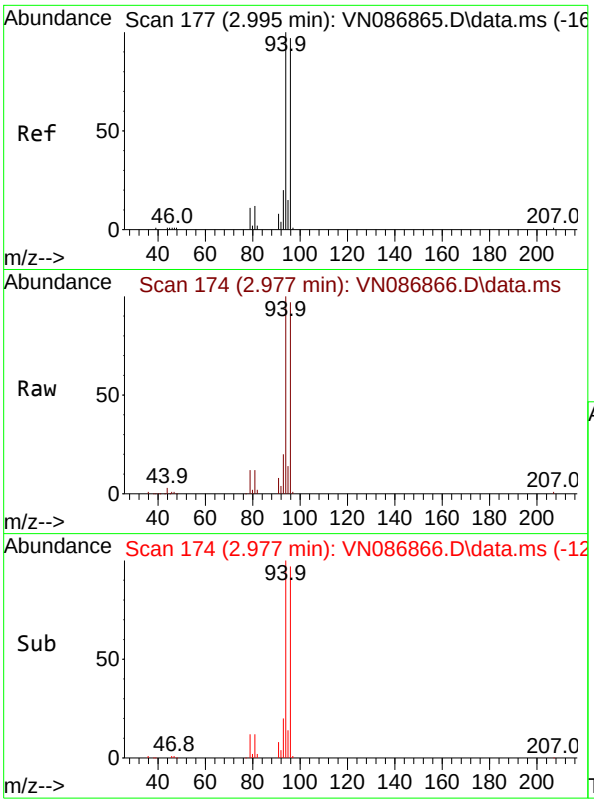


#4
Vinyl Chloride
Concen: 101.414 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 62 Resp: 245135

Ion	Ratio	Lower	Upper
62	100		
64	31.5	26.0	39.0

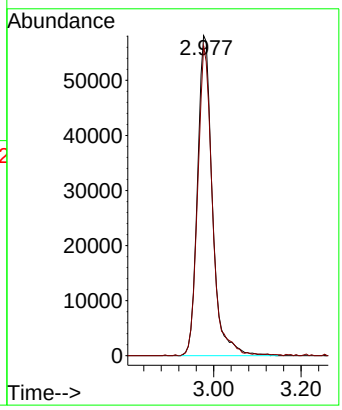




#5
Bromomethane
Concen: 101.996 ug/l
RT: 2.977 min Scan# 1
Delta R.T. -0.018 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 94 Resp: 13796

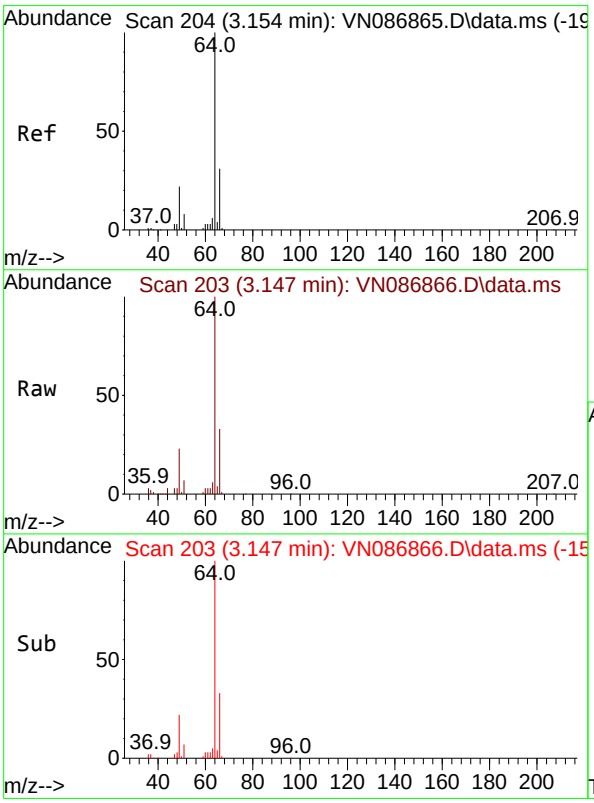
Ion	Ratio	Lower	Upper
94	100		
96	96.8	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

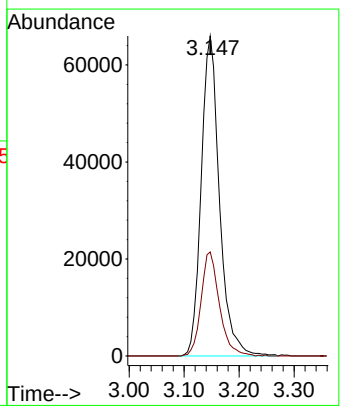
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

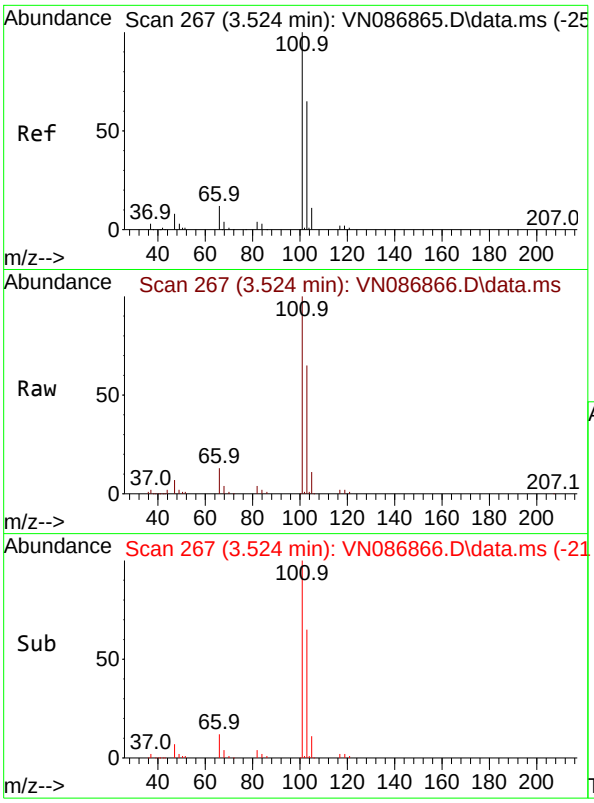


#6
Chloroethane
Concen: 97.447 ug/l
RT: 3.147 min Scan# 203
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 64 Resp: 152150

Ion	Ratio	Lower	Upper
64	100		
66	32.5	24.6	36.8





#7
Trichlorofluoromethane
Concen: 98.917 ug/l
RT: 3.524 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

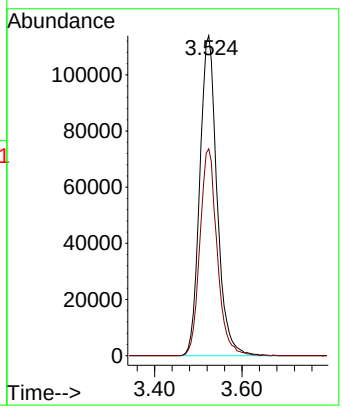
Tgt Ion:101 Resp: 31239

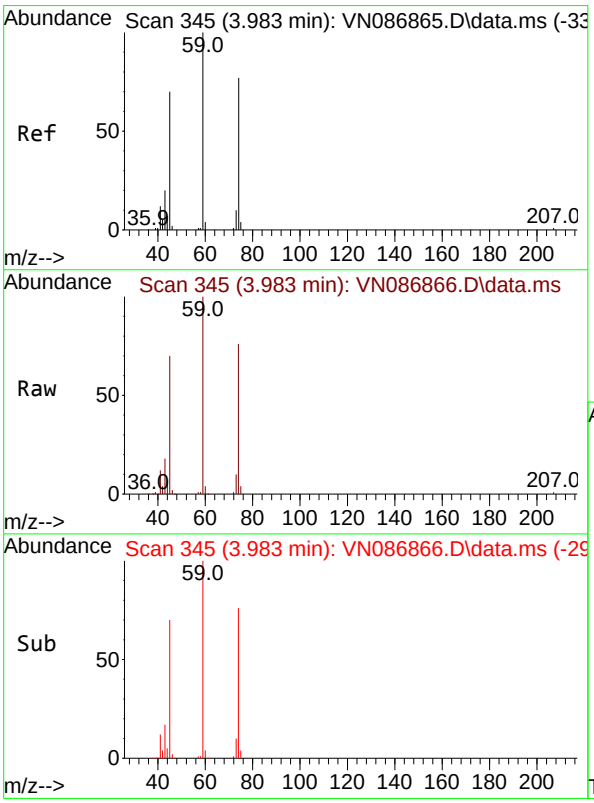
Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.2	78.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

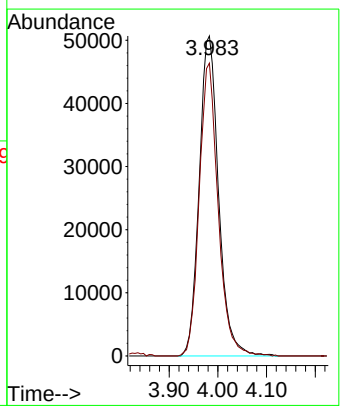


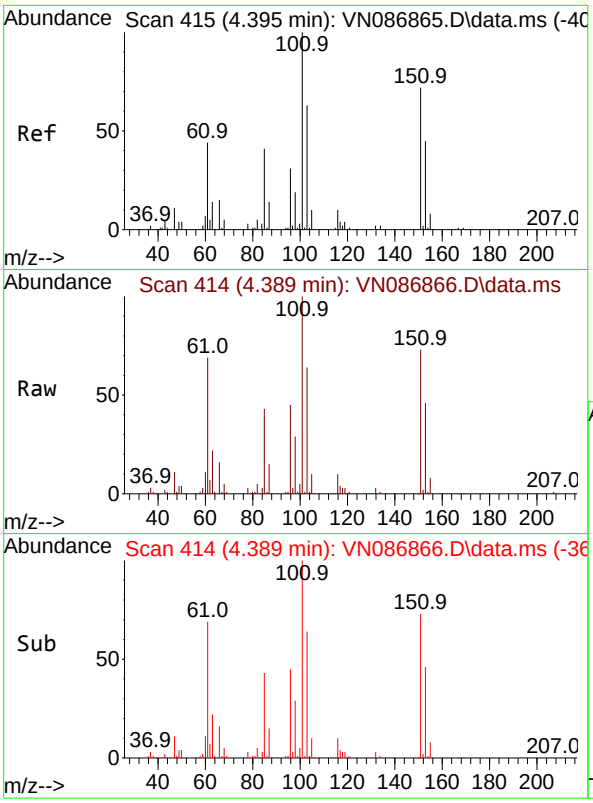


#8
Diethyl Ether
Concen: 101.631 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 74 Resp: 139844

Ion	Ratio	Lower	Upper
74	100		
45	89.5	45.5	136.5

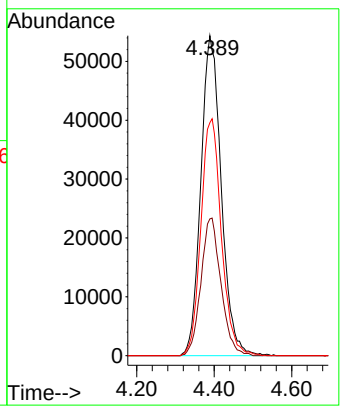




#9
1,1,2-Trichlorotrifluoroethane
Concen: 100.163 ug/l
RT: 4.389 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:101 Resp: 19873

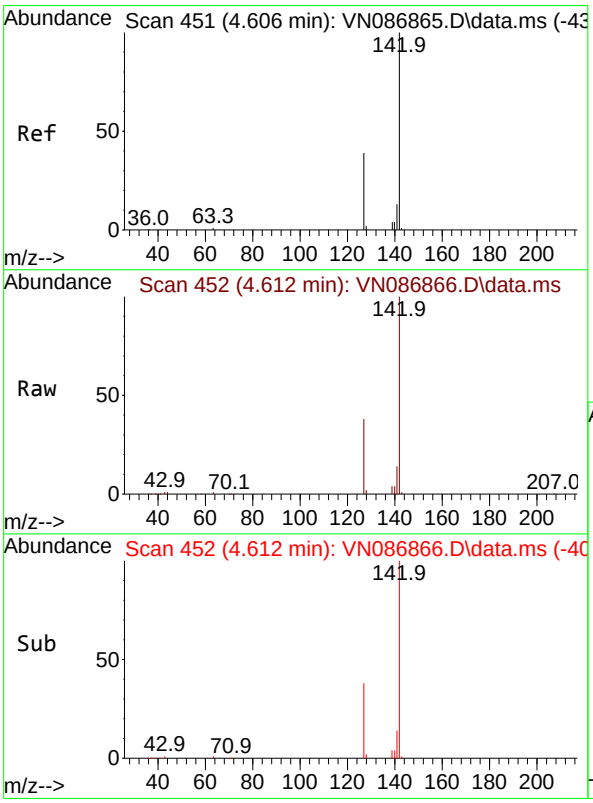
Ion	Ratio	Lower	Upper
101	100		
85	42.2	33.8	50.8
151	74.2	58.7	88.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

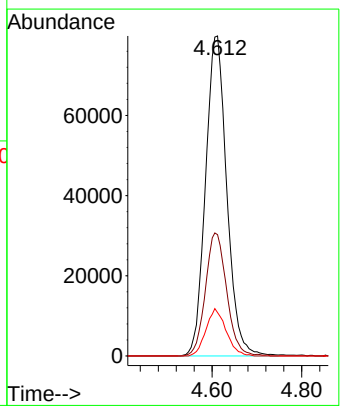
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

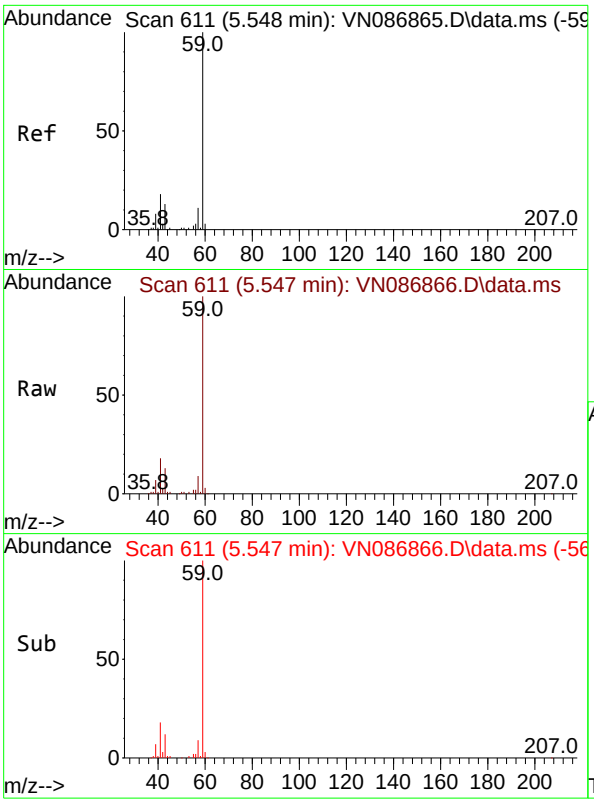


#10
Methyl Iodide
Concen: 102.162 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:142 Resp: 262771

Ion	Ratio	Lower	Upper
142	100		
127	37.9	30.9	46.3
141	13.6	10.4	15.6

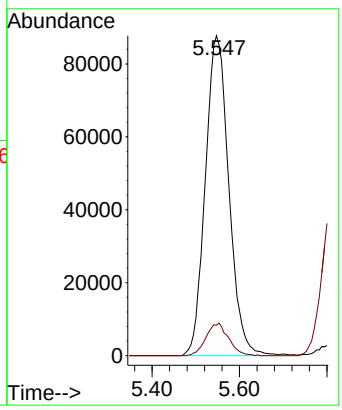




#11
Tert butyl alcohol
Concen: 496.062 ug/l
RT: 5.547 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 59 Resp: 32798

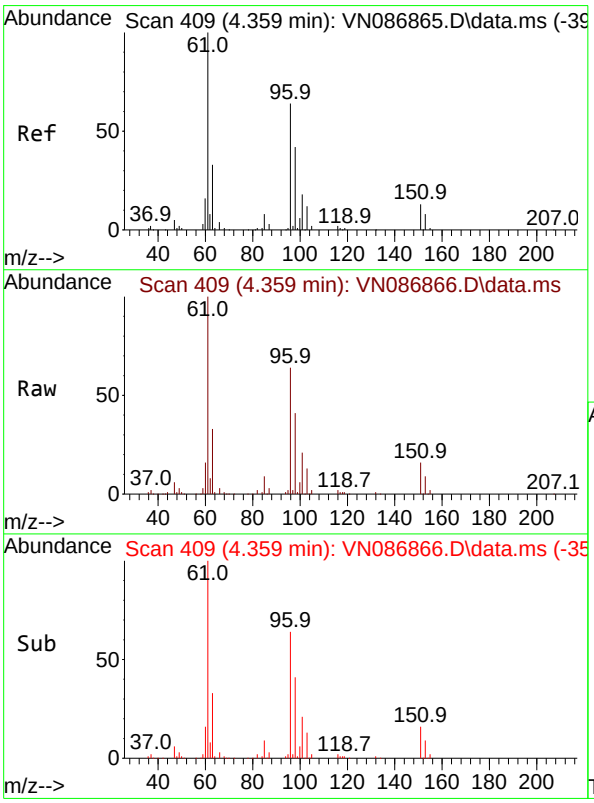
Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.1	12.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

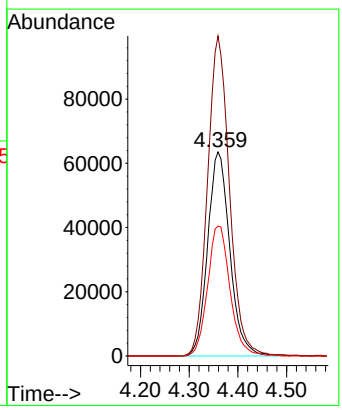
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

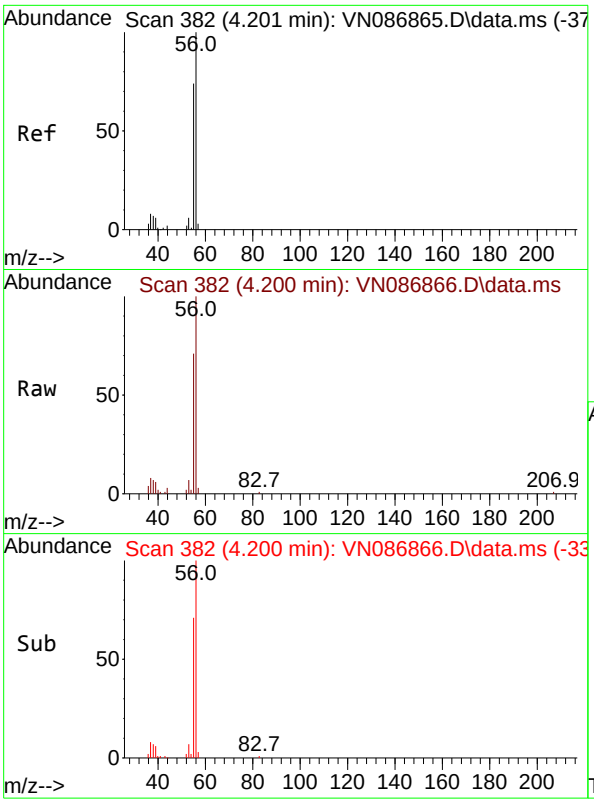


#12
1,1-Dichloroethene
Concen: 98.838 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 96 Resp: 200212

Ion	Ratio	Lower	Upper
96	100		
61	156.9	125.8	188.6
98	63.7	52.5	78.7

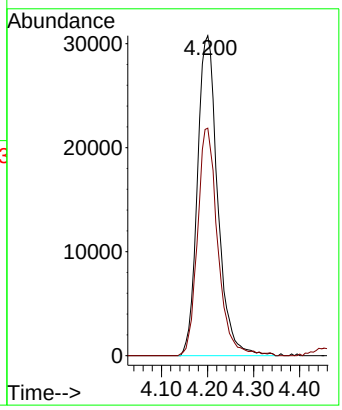




#13
Acrolein
Concen: 449.961 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 56 Resp: 9417

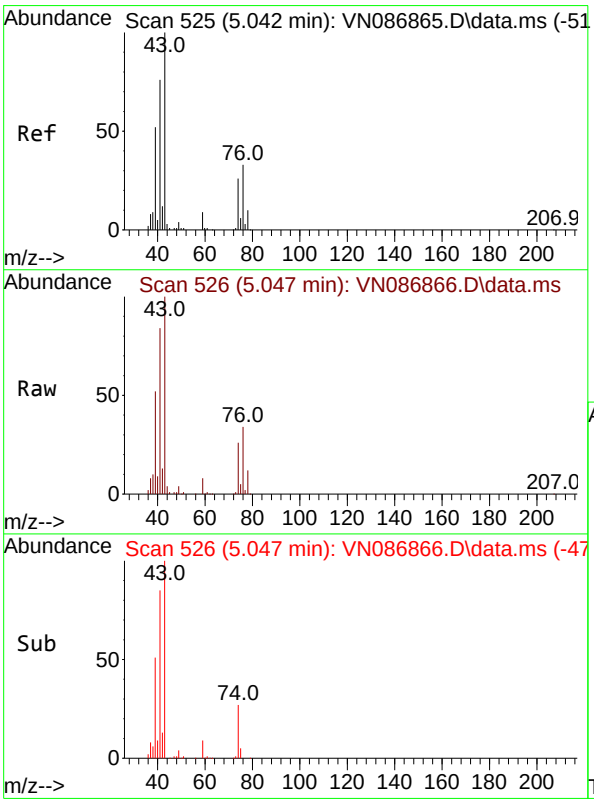
Ion	Ratio	Lower	Upper
56	100		
55	70.9	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

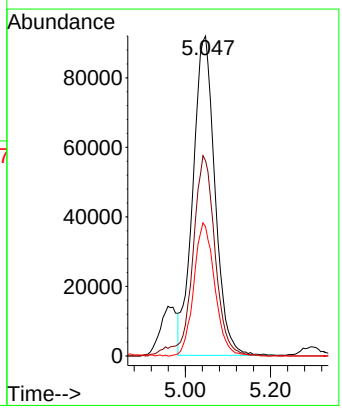
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

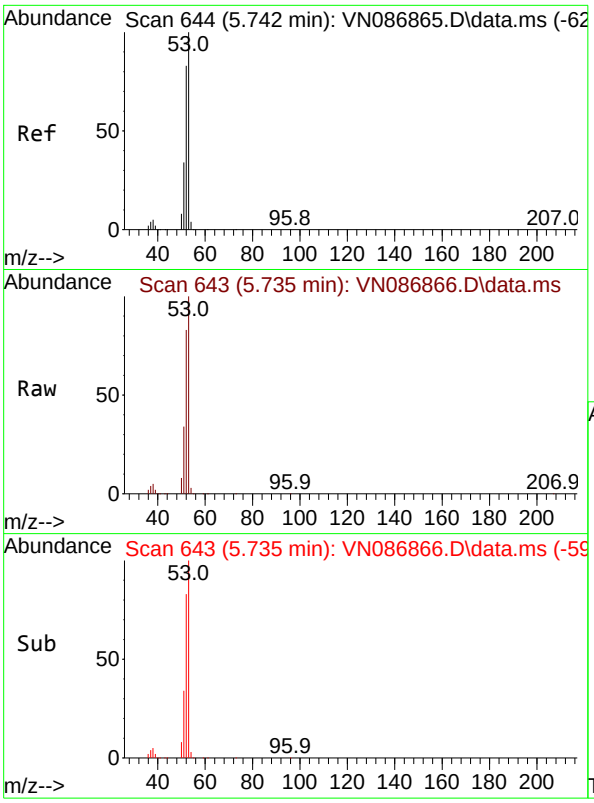


#14
Allyl chloride
Concen: 98.055 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 41 Resp: 329412

Ion	Ratio	Lower	Upper
41	100		
39	63.7	51.3	76.9
76	39.7	31.4	47.0

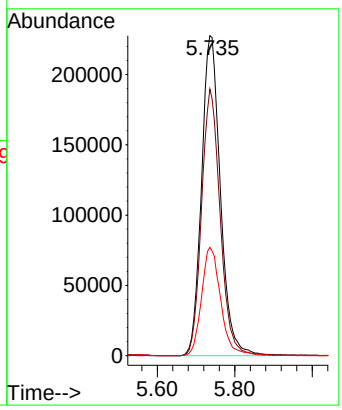




#15
Acrylonitrile
Concen: 498.552 ug/l
RT: 5.735 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 53 Resp: 77047

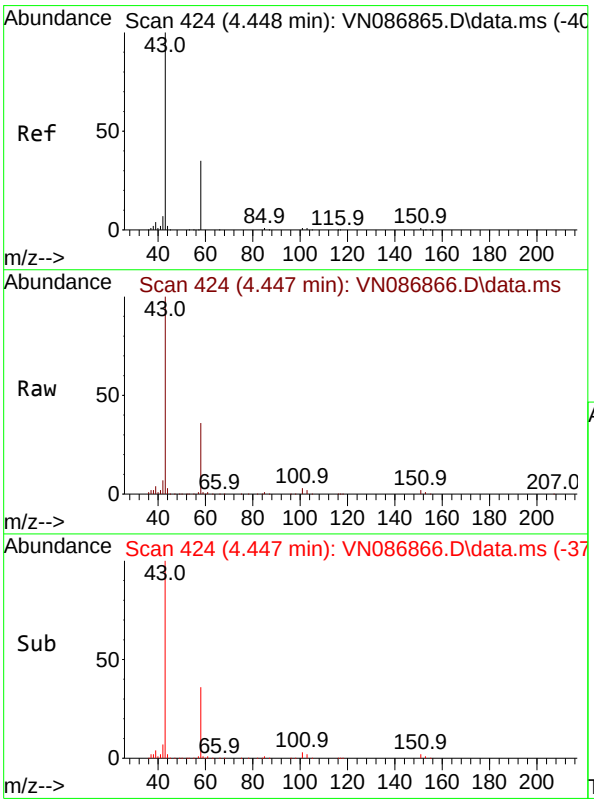
Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.0	97.6
51	34.4	27.2	40.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

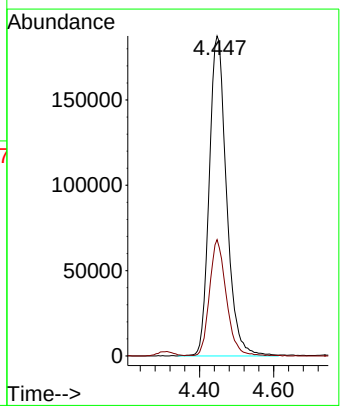
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

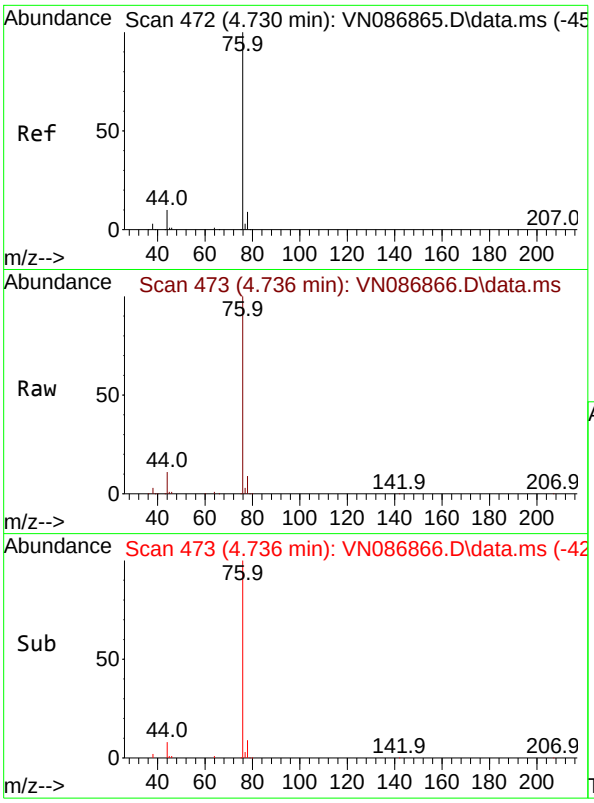


#16
Acetone
Concen: 470.648 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 43 Resp: 608178

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.0	42.0

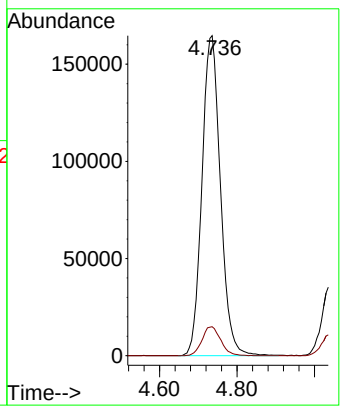




#17
Carbon Disulfide
Concen: 97.179 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 76 Resp: 54451

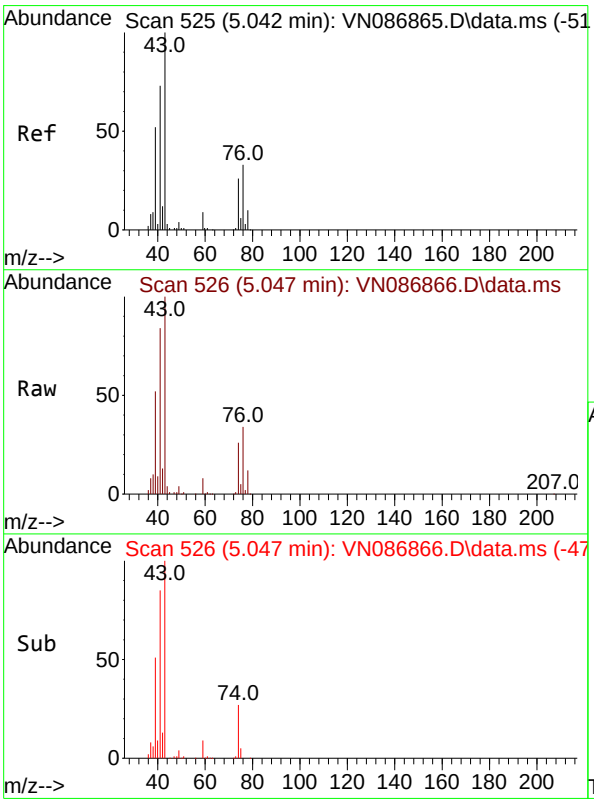
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

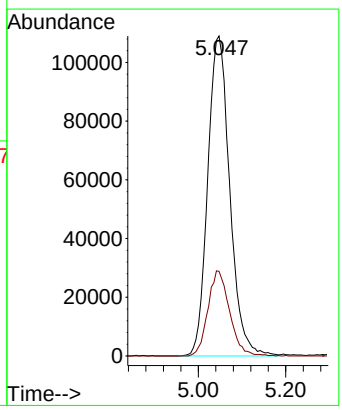
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

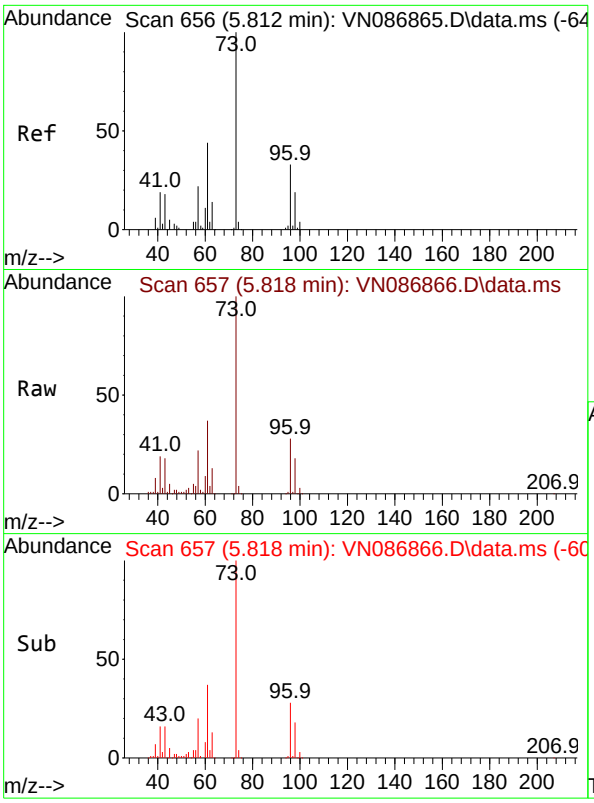


#18
Methyl Acetate
Concen: 101.390 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 43 Resp: 381808

Ion	Ratio	Lower	Upper
43	100		
74	26.1	20.7	31.1

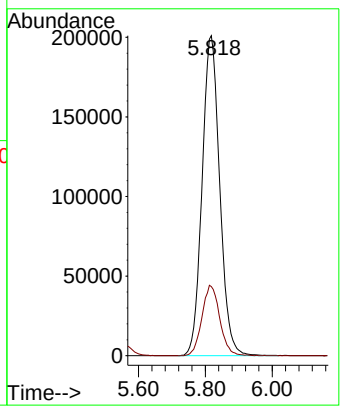




#19
Methyl tert-butyl Ether
Concen: 100.306 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 73 Resp: 73569

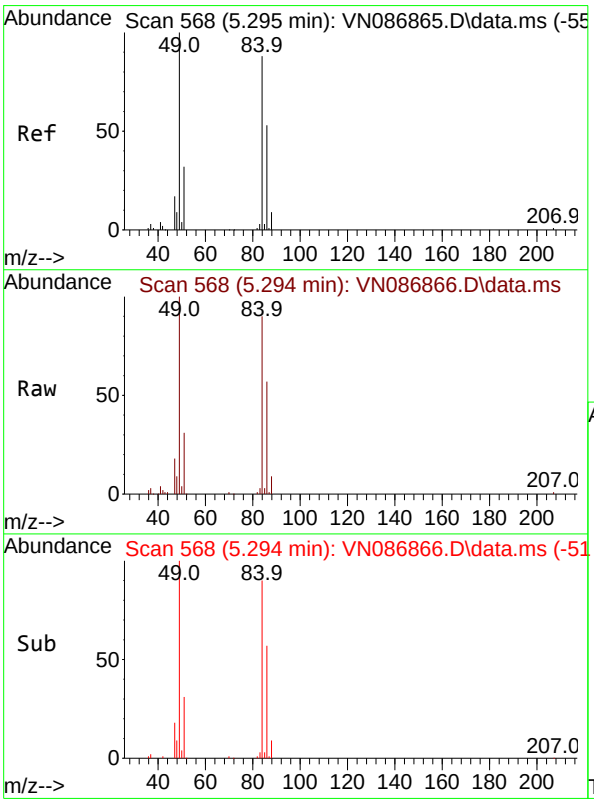
Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

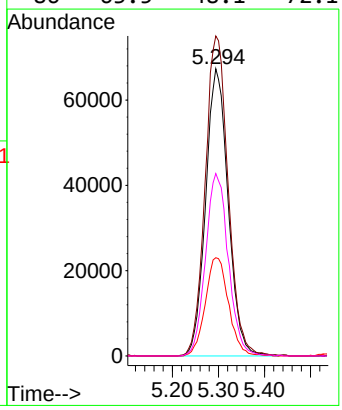
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

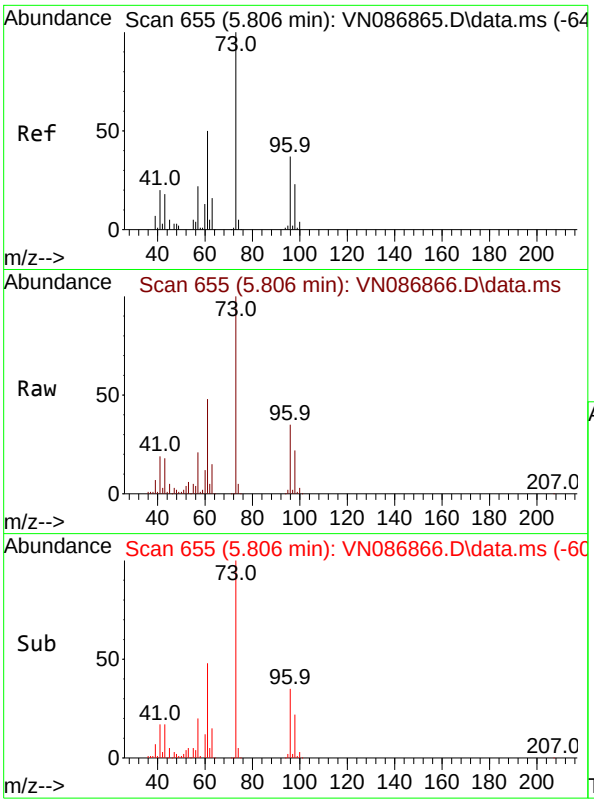


#20
Methylene Chloride
Concen: 94.575 ug/l
RT: 5.294 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 84 Resp: 228800

Ion	Ratio	Lower	Upper
84	100		
49	111.4	90.5	135.7
51	34.2	28.5	42.7
86	63.5	48.1	72.1

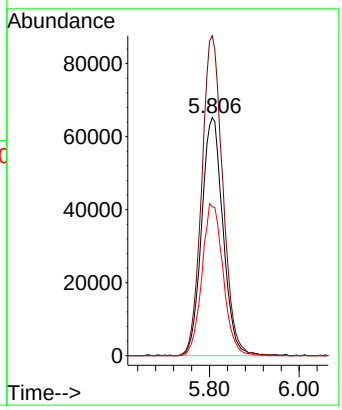




#21
trans-1,2-Dichloroethene
Concen: 95.476 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 96 Resp: 21517

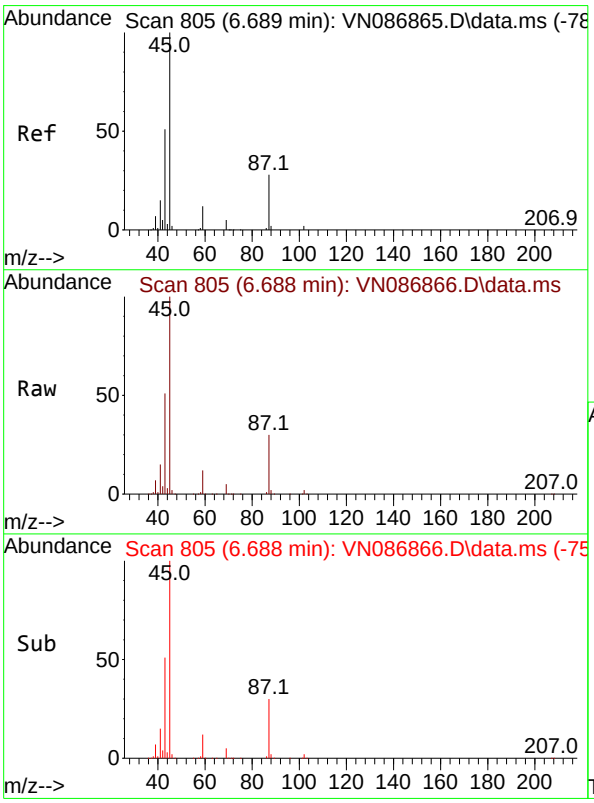
Ion	Ratio	Lower	Upper
96	100		
61	134.4	109.2	163.8
98	62.5	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

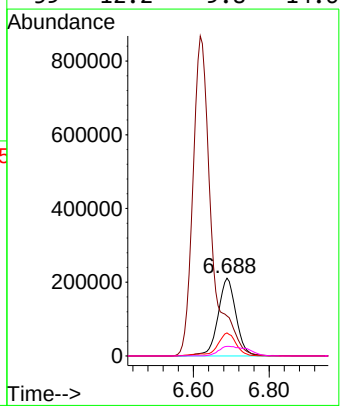
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

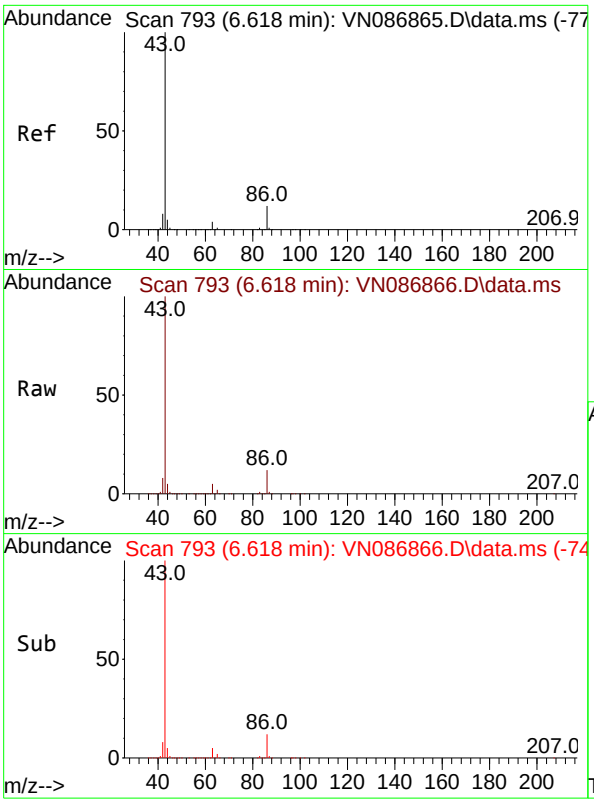


#22
Diisopropyl ether
Concen: 98.409 ug/l
RT: 6.688 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 45 Resp: 696881

Ion	Ratio	Lower	Upper
45	100		
43	51.1	41.9	62.9
87	29.6	22.4	33.6
59	12.2	9.8	14.6





#23
Vinyl Acetate
Concen: 487.936 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

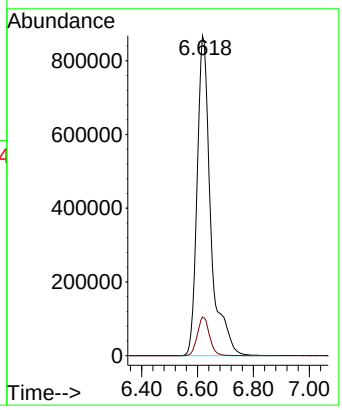
Tgt Ion: 43 Resp: 291935

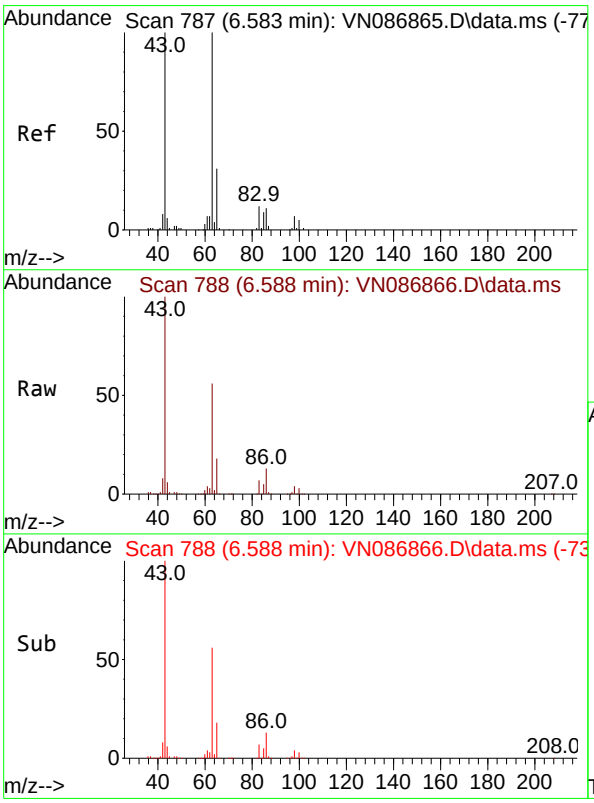
Ion	Ratio	Lower	Upper
43	100		
86	12.1	9.5	14.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

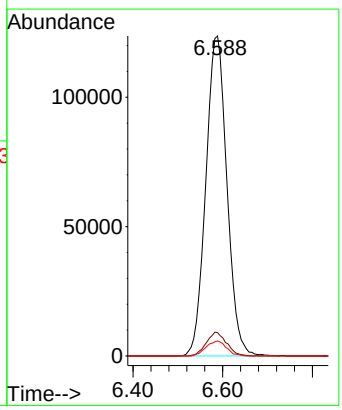


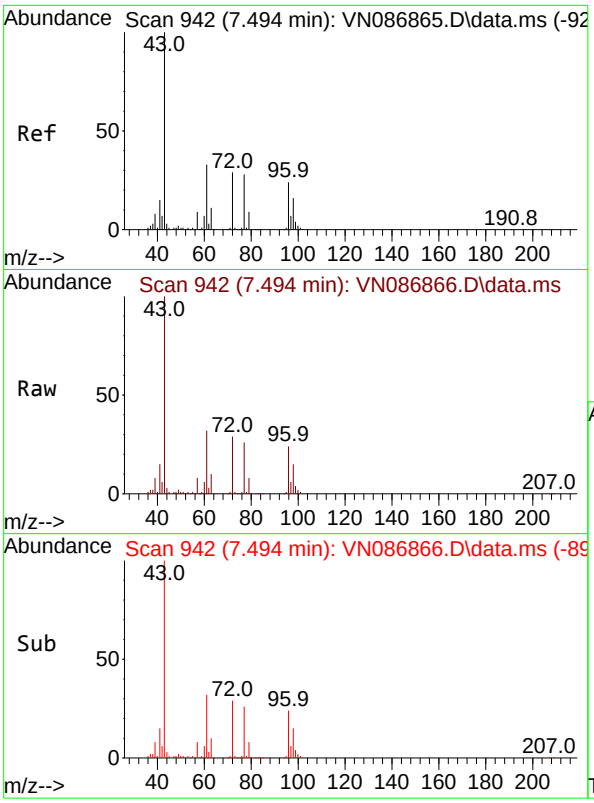


#24
1,1-Dichloroethane
Concen: 99.186 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 63 Resp: 404207

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.6	10.8
100	4.7	2.6	7.8





#25
2-Butanone
Concen: 496.743 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

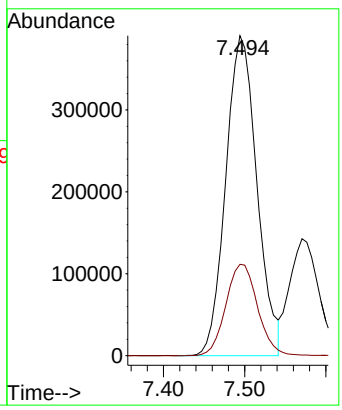
Tgt Ion: 43 Resp: 104338

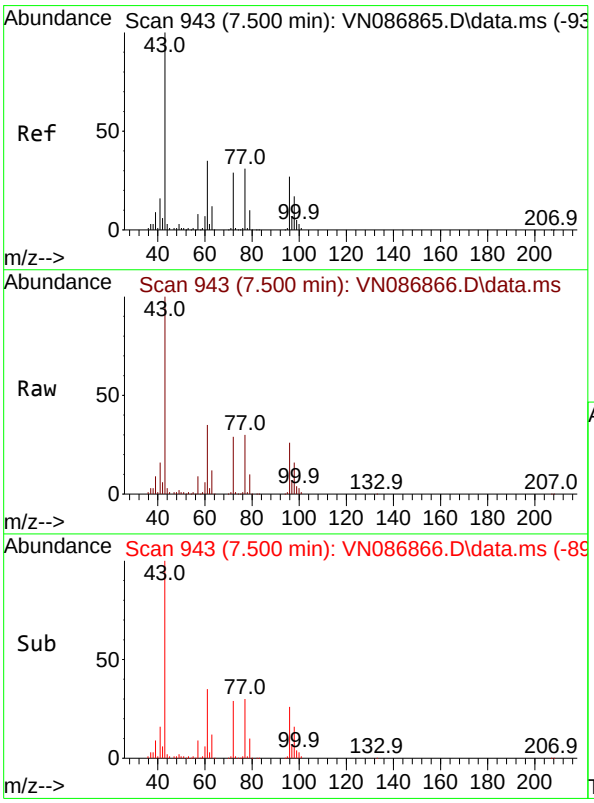
Ion	Ratio	Lower	Upper
43	100		
72	28.5	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

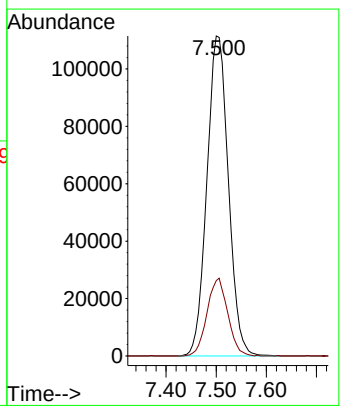


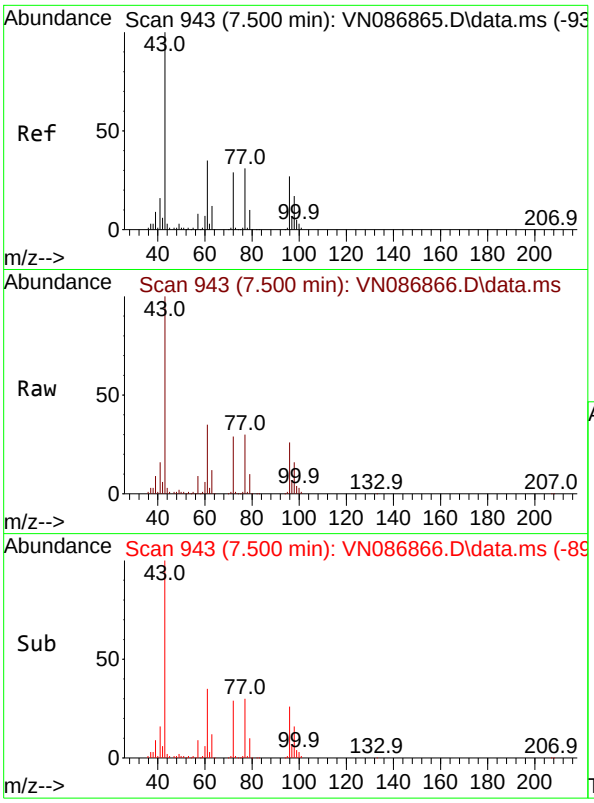


#26
2,2-Dichloropropane
Concen: 104.729 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 77 Resp: 331995

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.7

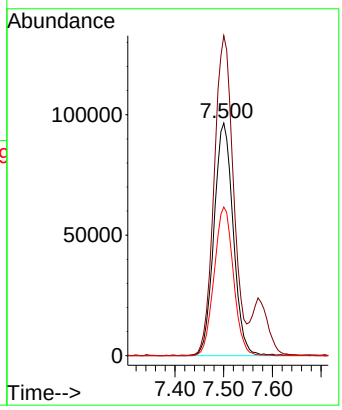




#27
cis-1,2-Dichloroethene
Concen: 98.410 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 96 Resp: 26524

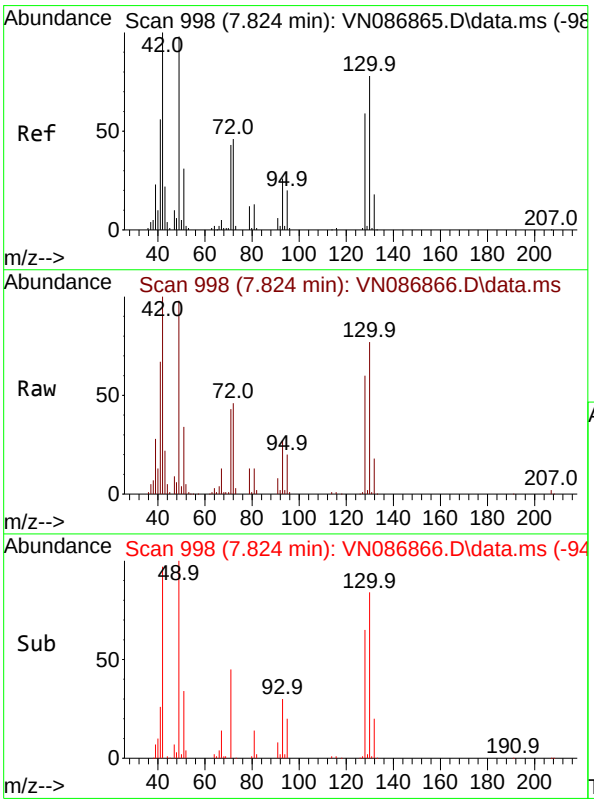
Ion	Ratio	Lower	Upper
96	100		
61	137.9	0.0	278.0
98	64.0	0.0	128.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

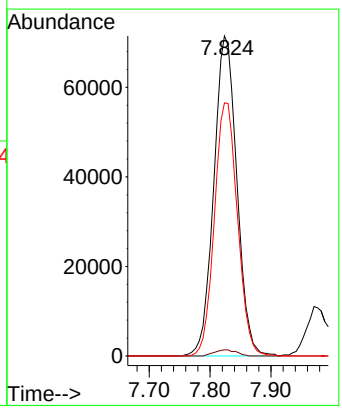
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

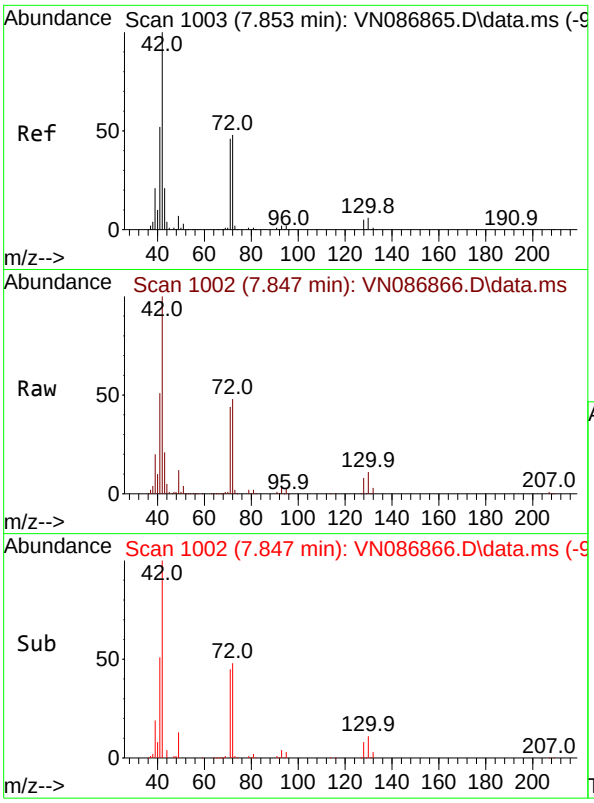


#28
Bromochloromethane
Concen: 93.851 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 49 Resp: 188050

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	78.9	62.2	93.2

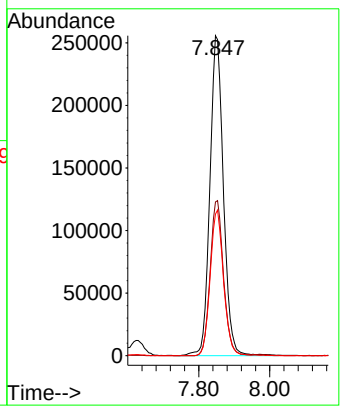




#29
Tetrahydrofuran
Concen: 495.240 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 42 Resp: 67763

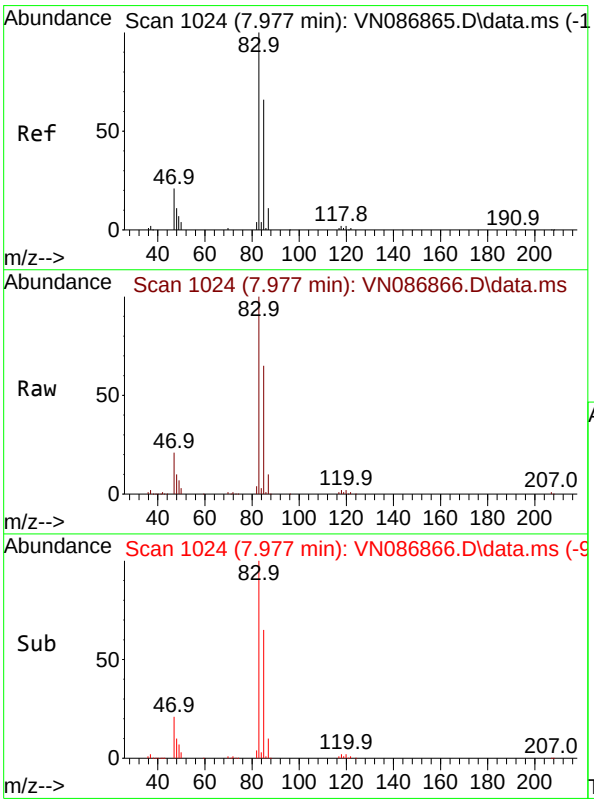
Ion	Ratio	Lower	Upper
42	100		
72	47.9	37.8	56.6
71	44.8	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

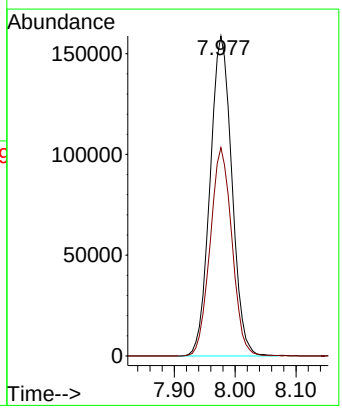
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

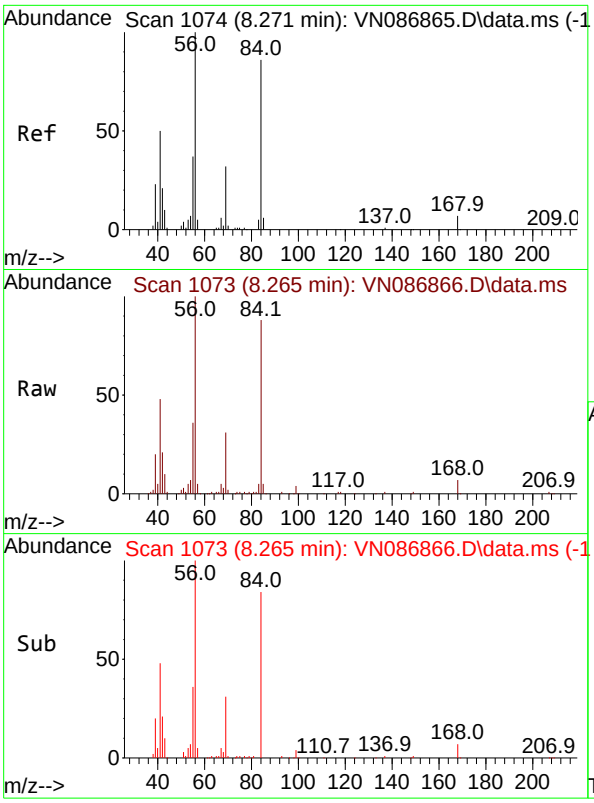


#30
Chloroform
Concen: 97.040 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 83 Resp: 394927

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.9	79.3

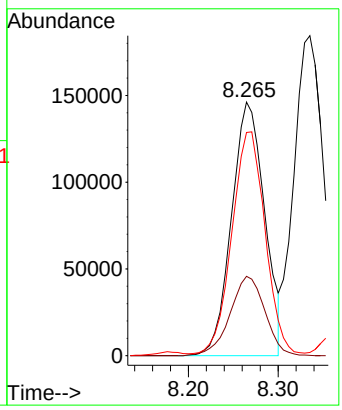




#31
Cyclohexane
Concen: 94.869 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 56 Resp: 37493

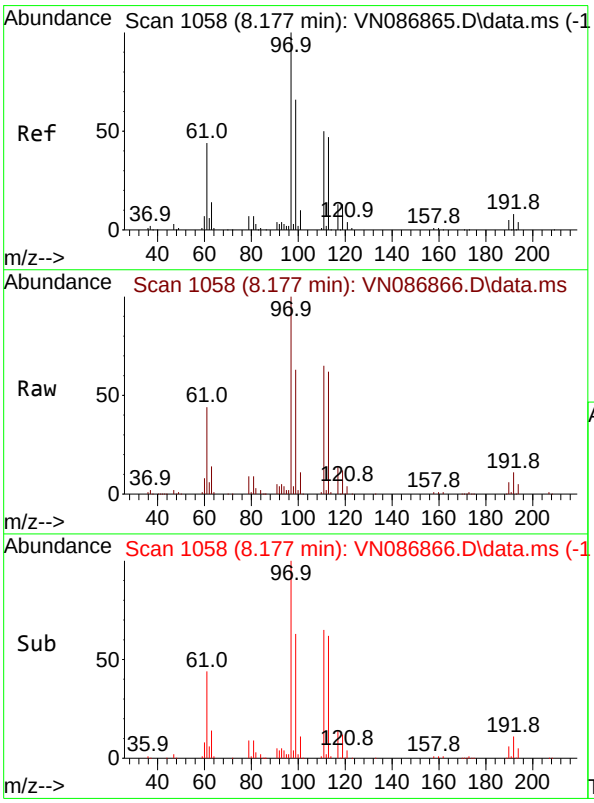
Ion	Ratio	Lower	Upper
56	100		
69	31.3	25.4	38.0
84	86.8	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

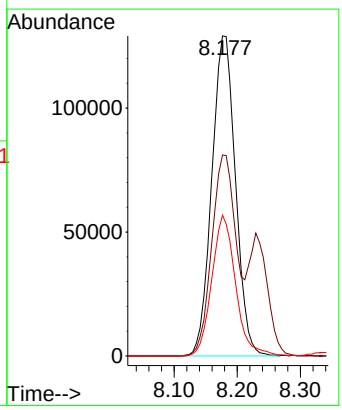
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

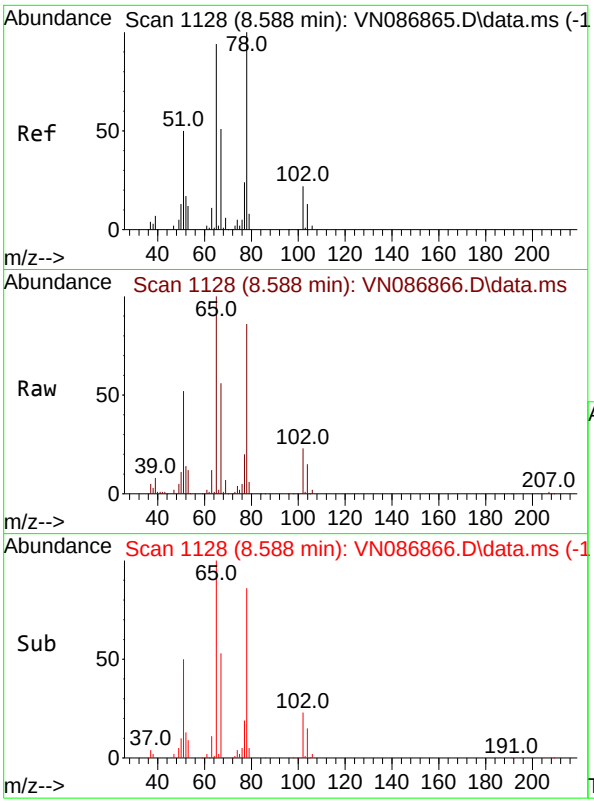


#32
1,1,1-Trichloroethane
Concen: 97.306 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 97 Resp: 336819

Ion	Ratio	Lower	Upper
97	100		
99	65.7	52.0	78.0
61	44.2	35.9	53.9

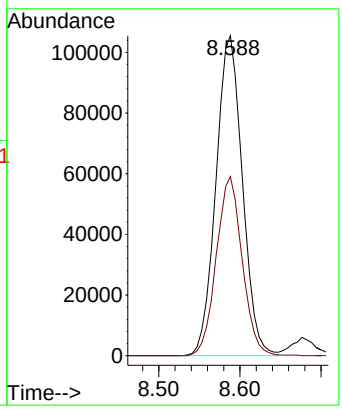




#33
1,2-Dichloroethane-d4
Concen: 98.065 ug/l
RT: 8.588 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 65 Resp: 23895

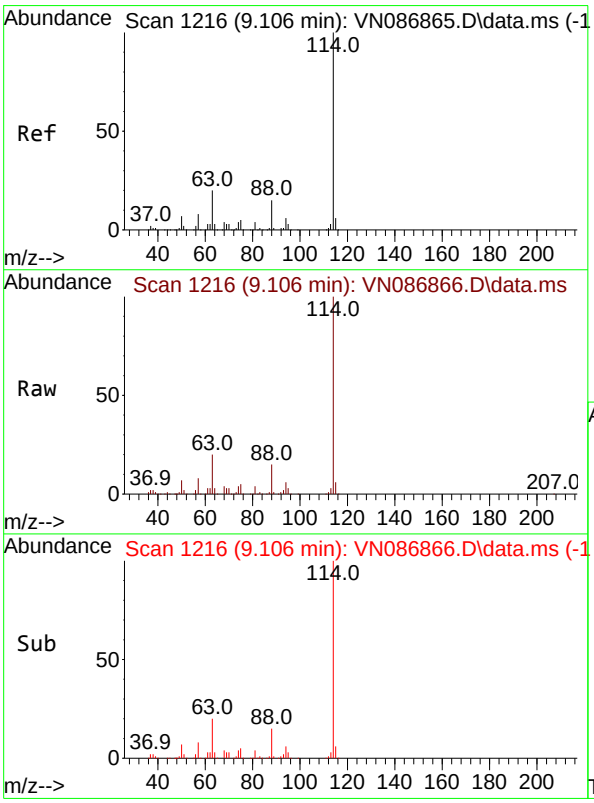
Ion	Ratio	Lower	Upper
65	100		
67	54.8	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

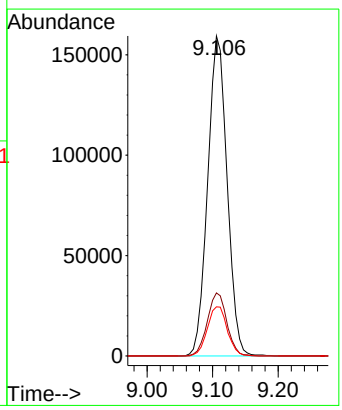
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

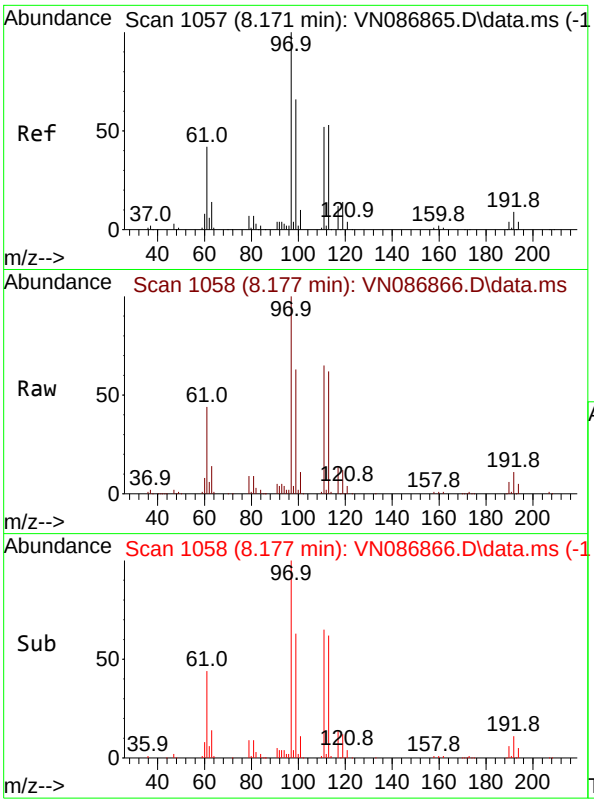


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:114 Resp: 327782

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	39.6
88	15.4	0.0	30.2

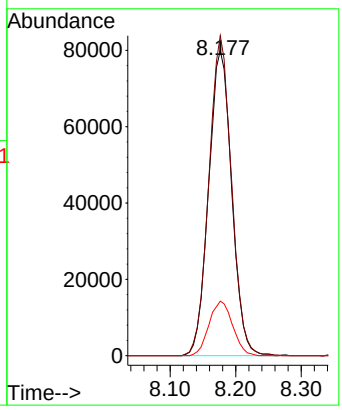




#35
Dibromofluoromethane
Concen: 100.495 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:113 Resp: 19521

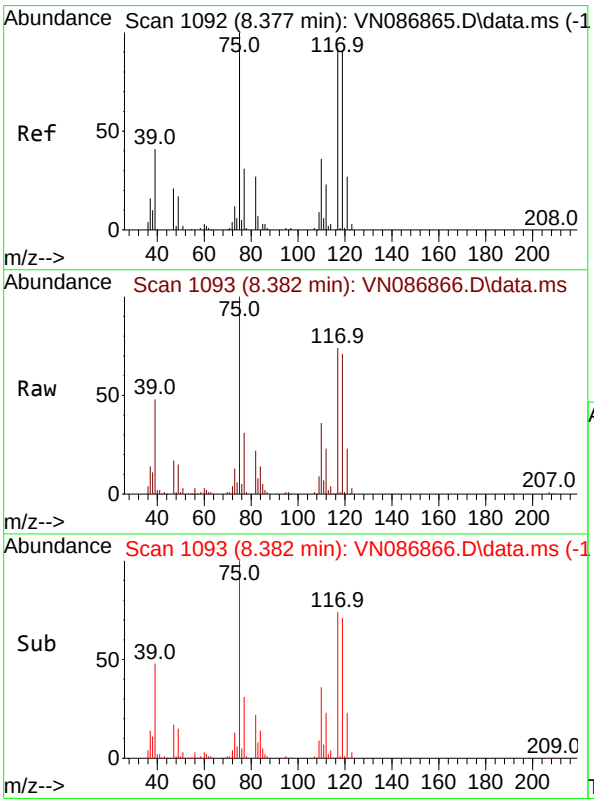
Ion	Ratio	Lower	Upper
113	100		
111	102.9	84.2	126.2
192	18.2	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

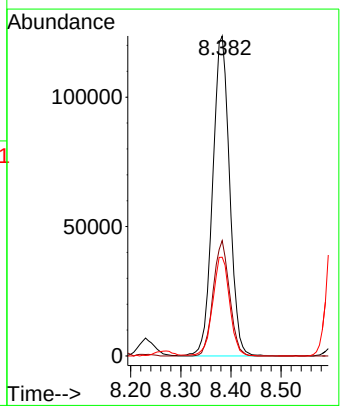
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

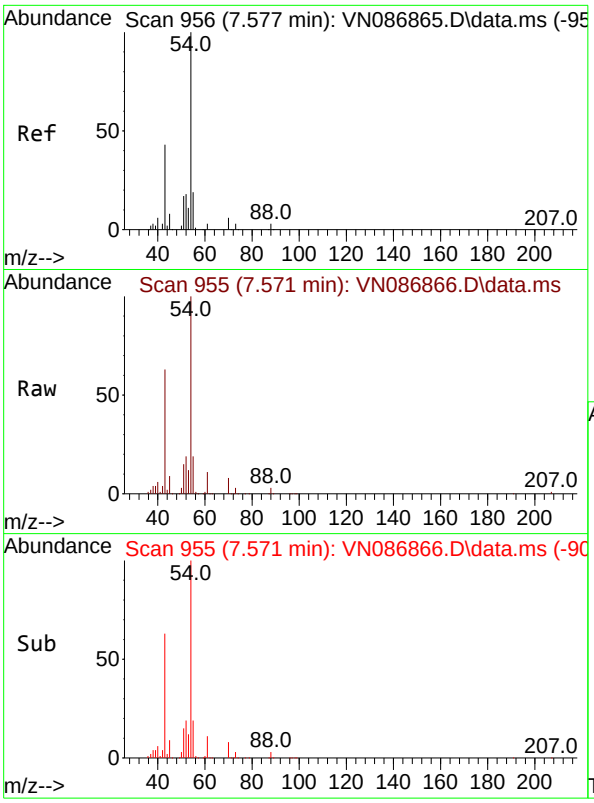


#36
1,1-Dichloropropene
Concen: 100.156 ug/l
RT: 8.382 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 75 Resp: 289907

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.6	52.9
77	31.1	25.3	37.9

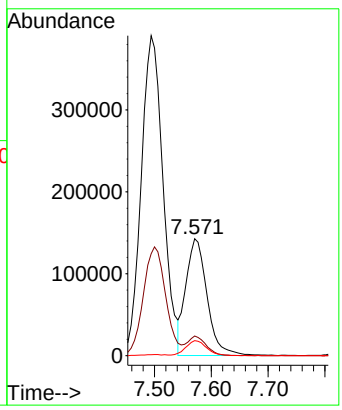




#37
Ethyl Acetate
Concen: 100.591 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 43 Resp: 37065

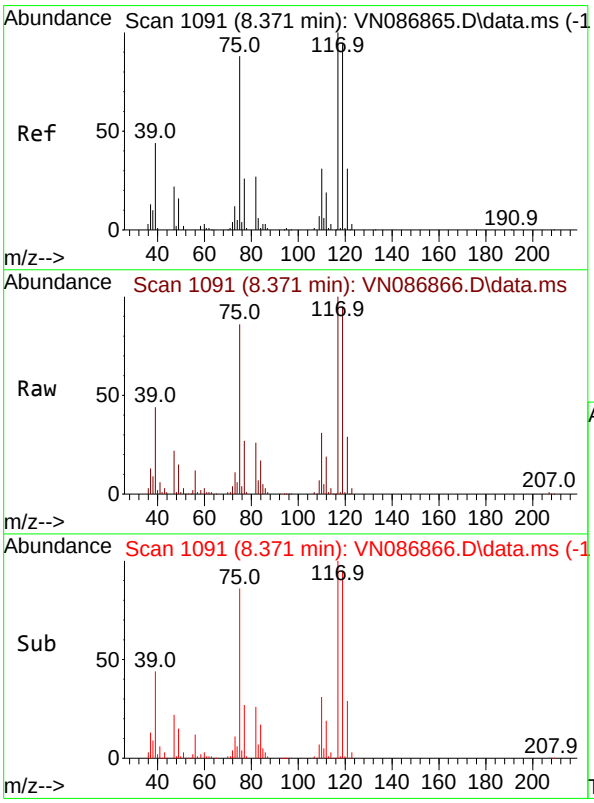
Ion	Ratio	Lower	Upper
43	100		
61	15.3	12.1	18.1
70	12.6	9.8	14.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

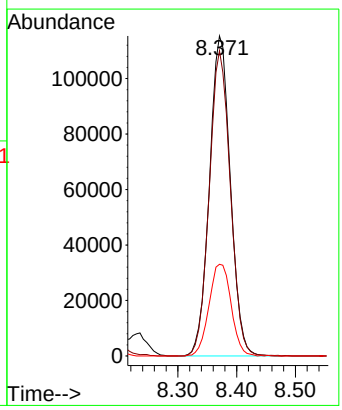
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

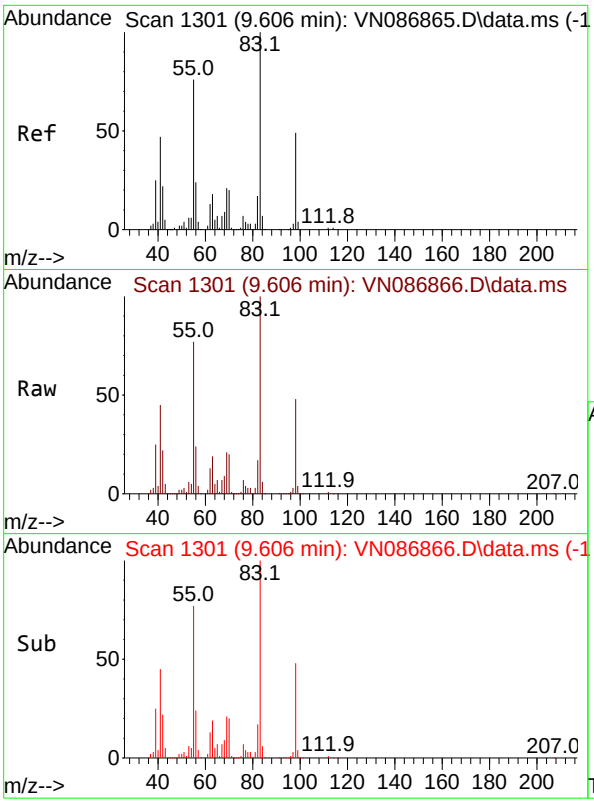


#38
Carbon Tetrachloride
Concen: 100.404 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:117 Resp: 285325

Ion	Ratio	Lower	Upper
117	100		
119	95.4	75.0	112.6
121	28.6	24.9	37.3





#39
Methylcyclohexane
Concen: 99.758 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

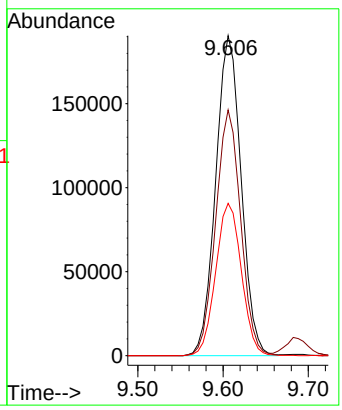
Tgt Ion: 83 Resp: 39560

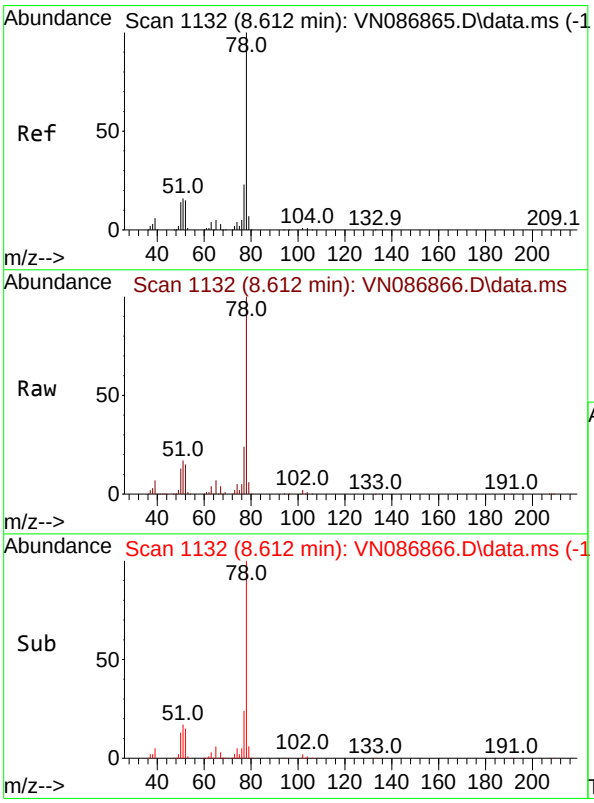
Ion	Ratio	Lower	Upper
83	100		
55	76.8	61.0	91.6
98	47.6	38.9	58.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

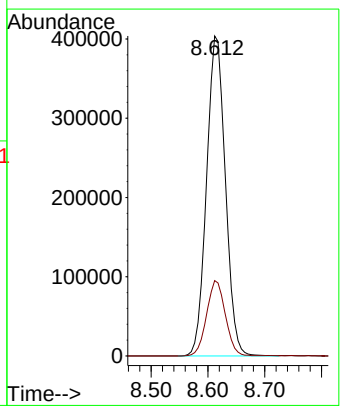


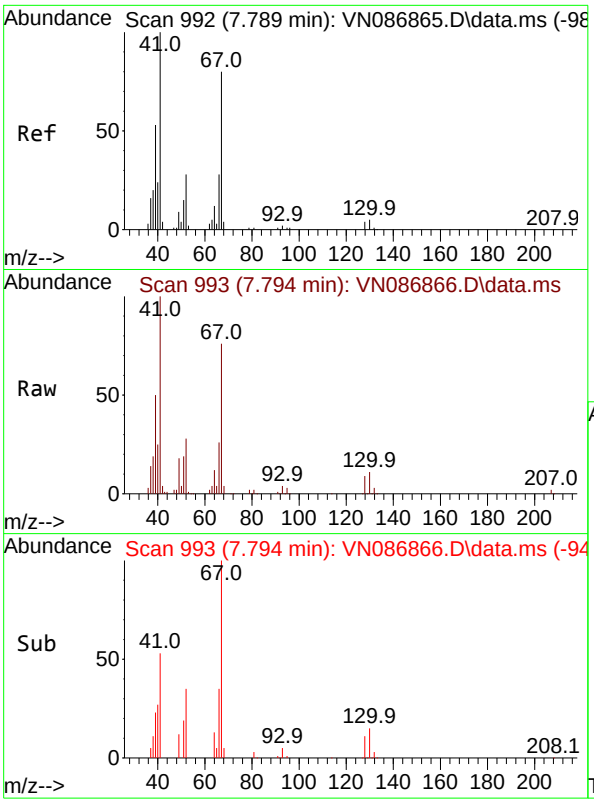


#40
Benzene
Concen: 97.946 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 78 Resp: 927083

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.7	28.1

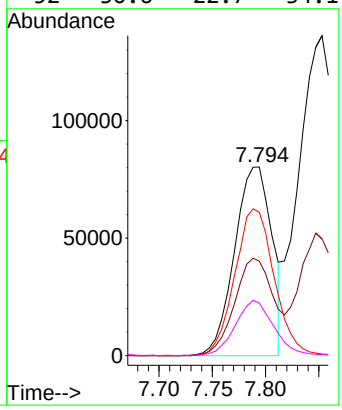




#41
Methacrylonitrile
Concen: 94.688 ug/l
RT: 7.794 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 41 Resp: 19594

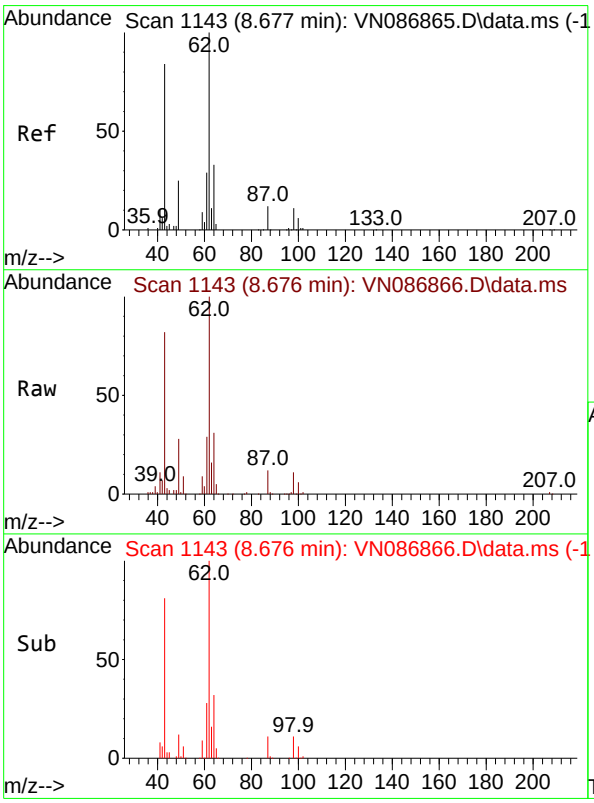
Ion	Ratio	Lower	Upper
41	100		
39	54.3	41.2	61.8
67	82.5	61.4	92.2
52	30.6	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

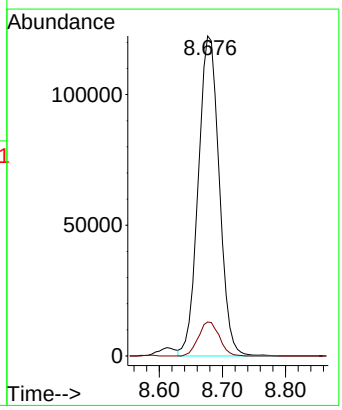
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

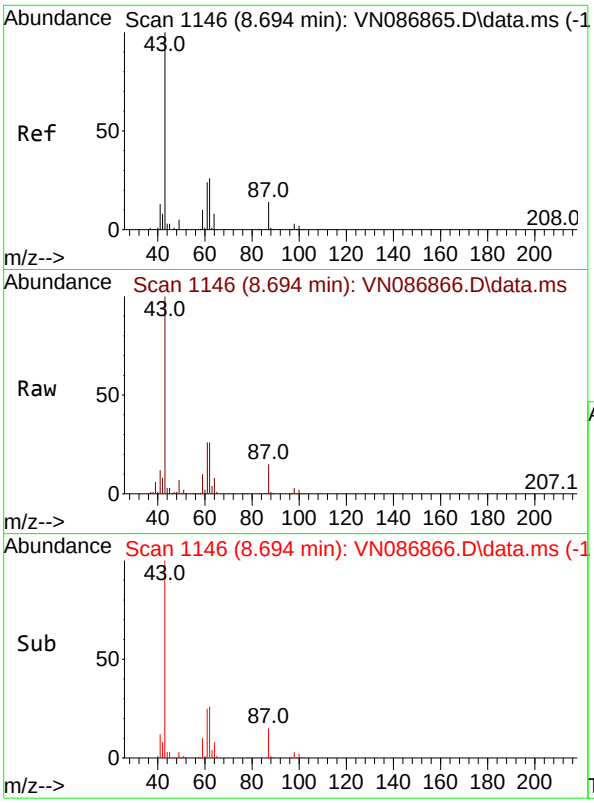


#42
1,2-Dichloroethane
Concen: 98.232 ug/l
RT: 8.676 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 62 Resp: 282015

Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	21.2





#43
Isopropyl Acetate
Concen: 97.981 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

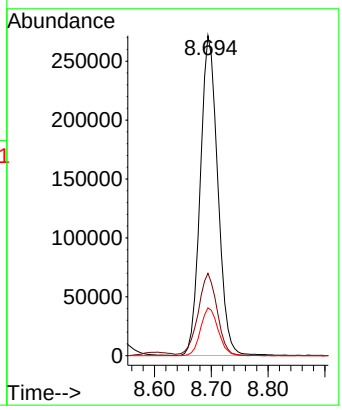
Tgt Ion: 43 Resp: 57946

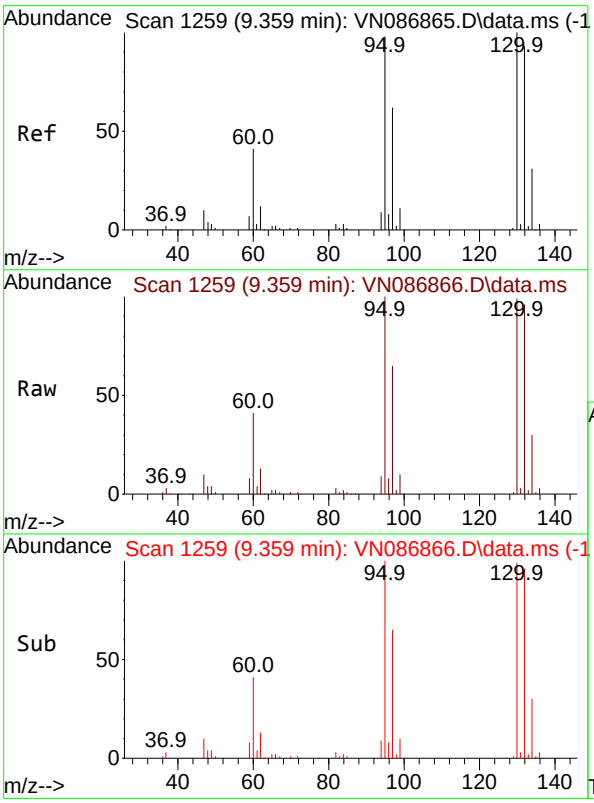
Ion	Ratio	Lower	Upper
43	100		
61	28.1	22.1	33.1
87	15.0	11.8	17.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

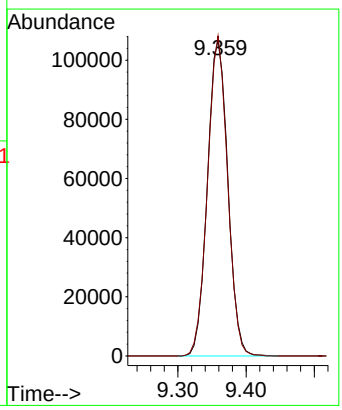


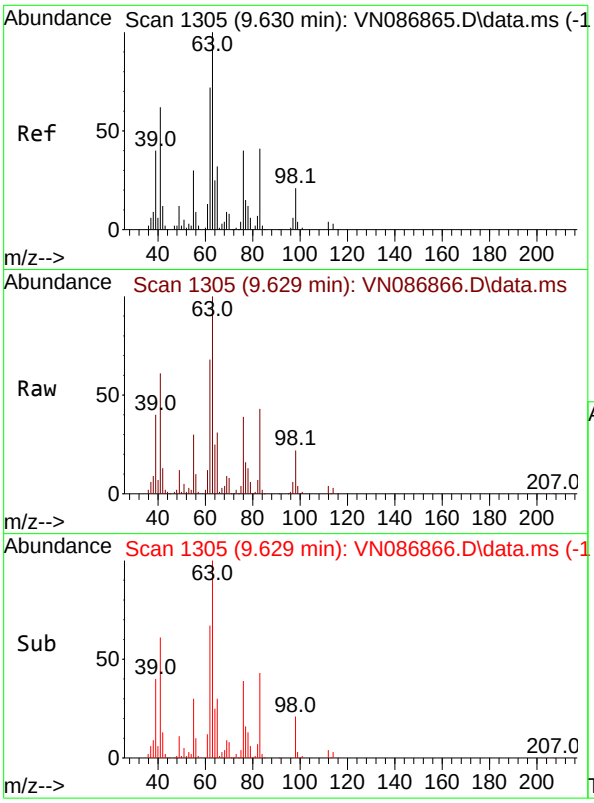


#44
Trichloroethene
Concen: 99.280 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:130 Resp: 222822

Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	196.2

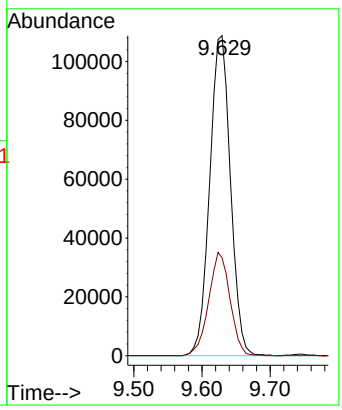




#45
1,2-Dichloropropane
Concen: 100.077 ug/l
RT: 9.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 63 Resp: 23045

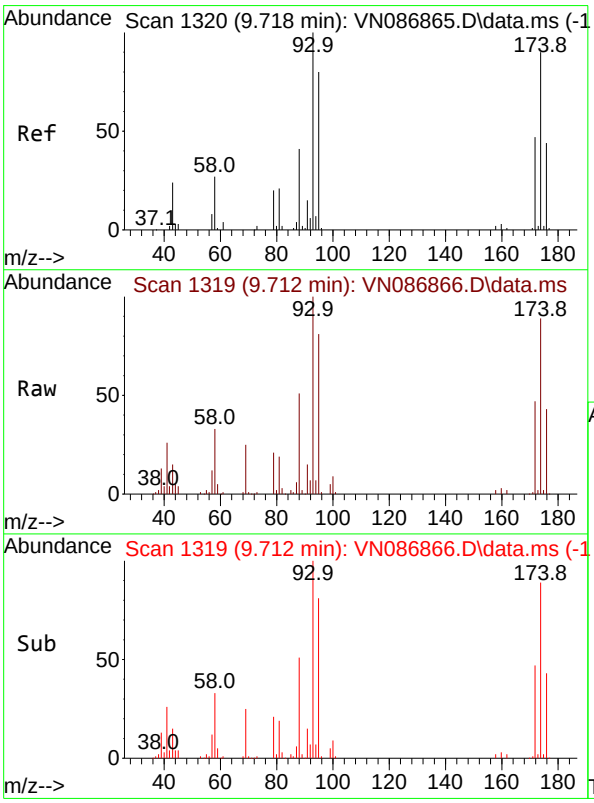
Ion	Ratio	Lower	Upper
63	100		
65	30.6	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

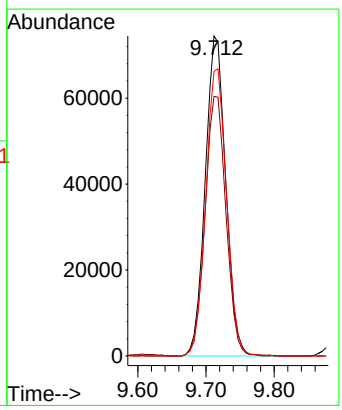
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

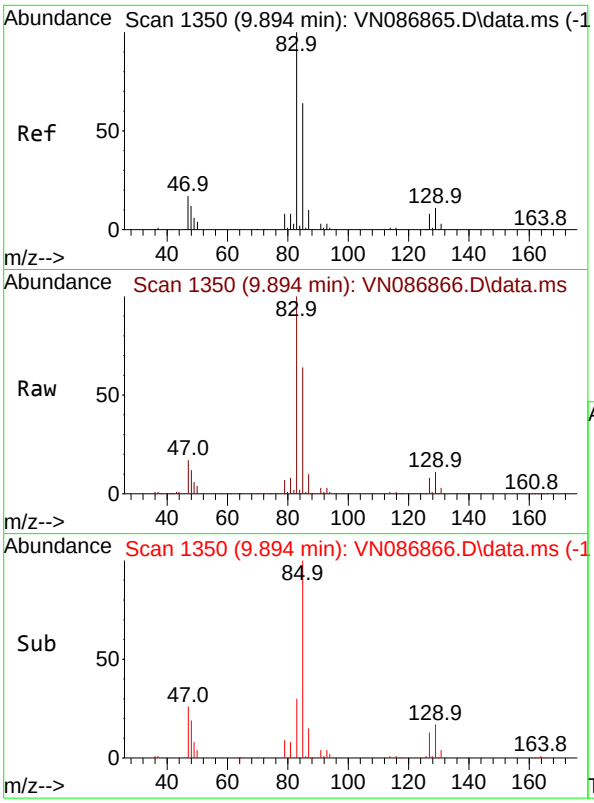


#46
Dibromomethane
Concen: 101.685 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 93 Resp: 155530

Ion	Ratio	Lower	Upper
93	100		
95	82.9	67.1	100.7
174	91.6	74.2	111.4

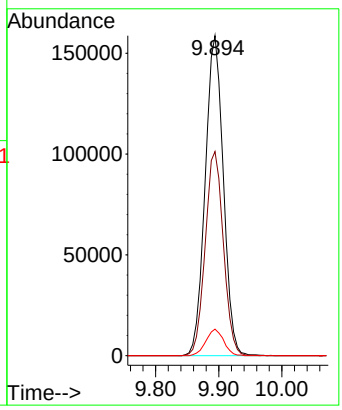




#47
Bromodichloromethane
Concen: 100.533 ug/l
RT: 9.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 83 Resp: 31637

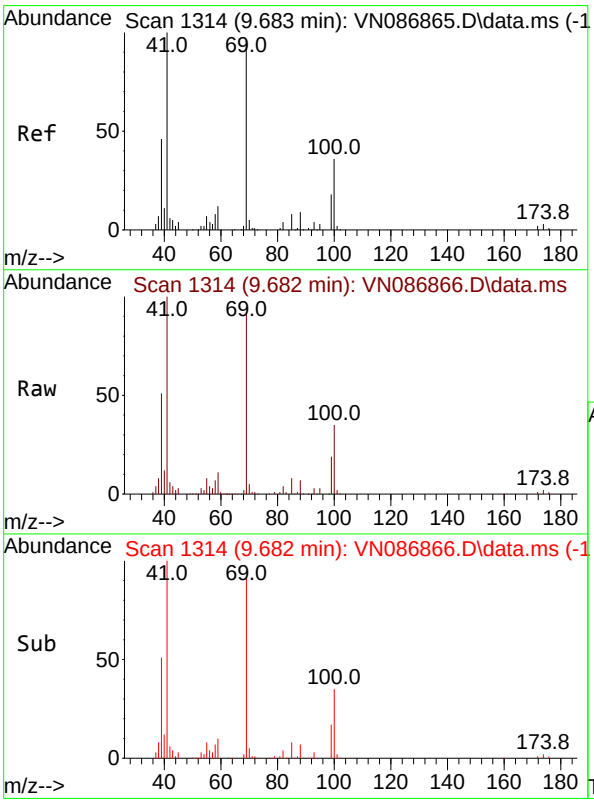
Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.9	76.3
127	8.3	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

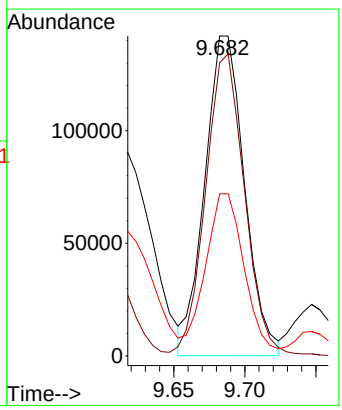
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

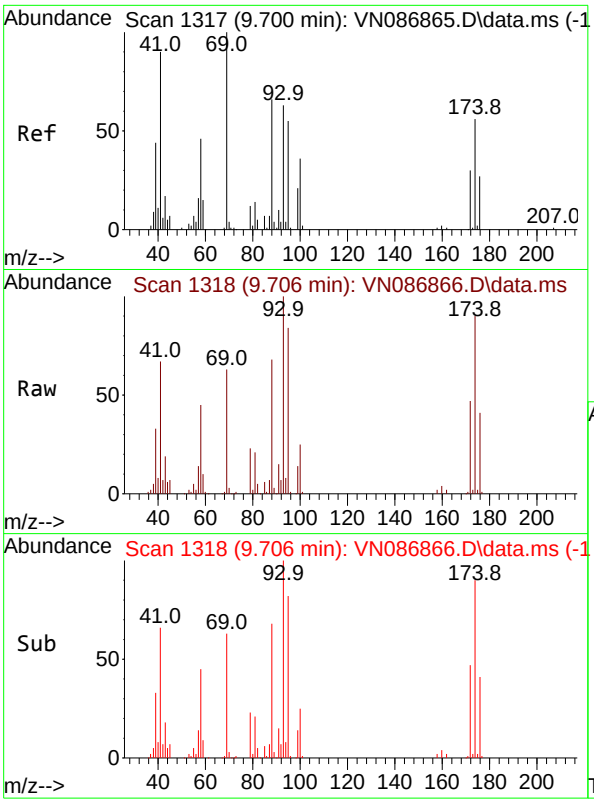


#48
Methyl methacrylate
Concen: 101.288 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 41 Resp: 275710

Ion	Ratio	Lower	Upper
41	100		
69	92.4	74.6	112.0
39	50.1	40.2	60.4

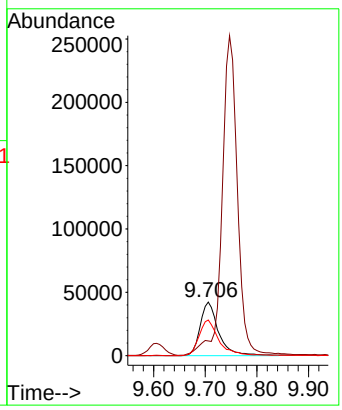




#49
1,4-Dioxane
Concen: 2115.744 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 88 Resp: 10477

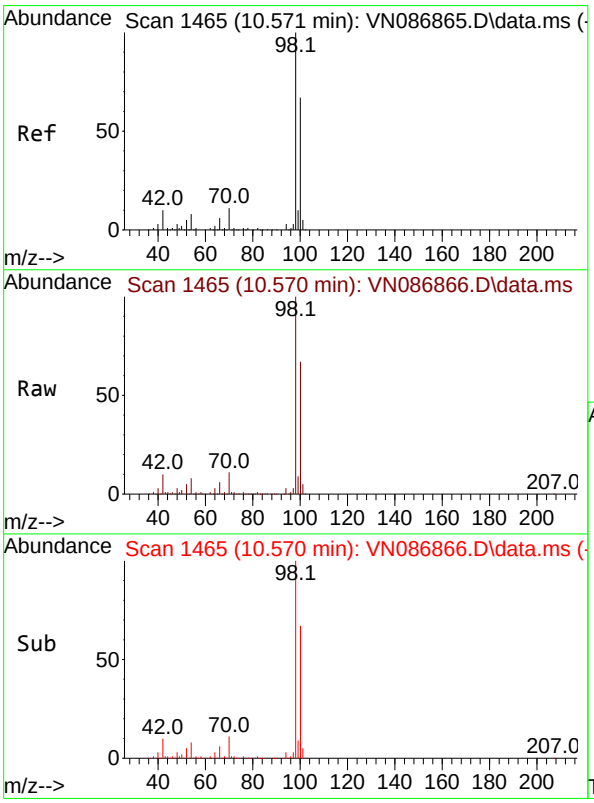
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	71.5	57.7	86.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

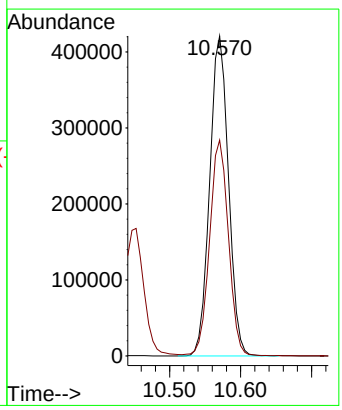
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

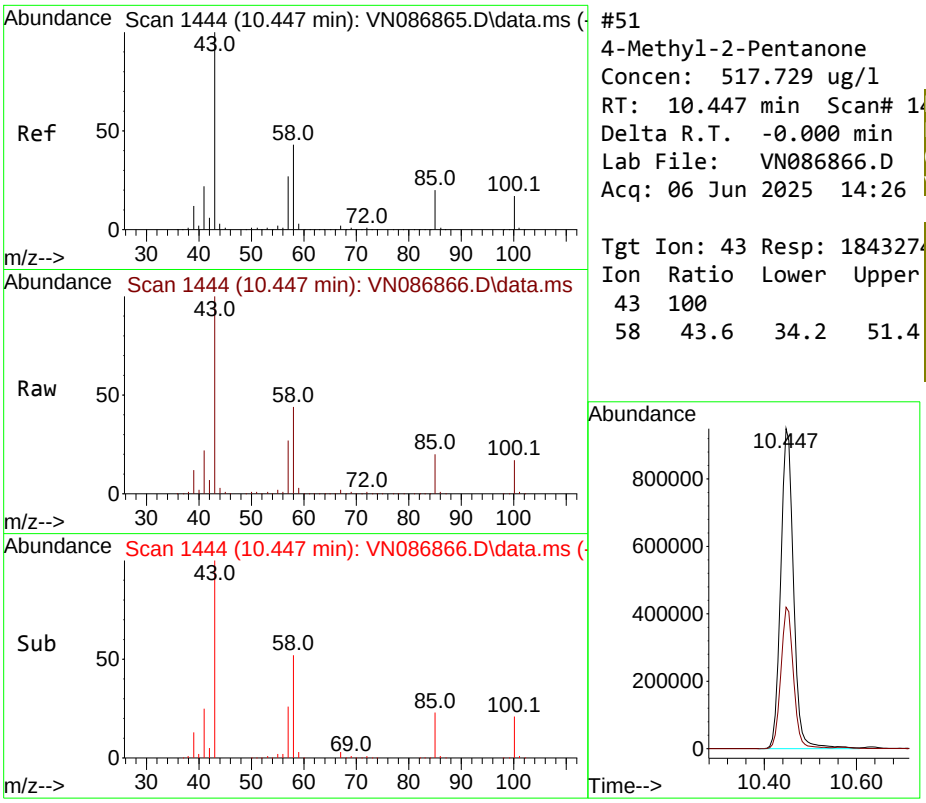


#50
Toluene-d8
Concen: 100.419 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 98 Resp: 772210

Ion	Ratio	Lower	Upper
98	100		
100	67.6	53.4	80.0





#51
4-Methyl-2-Pentanone
Concen: 517.729 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

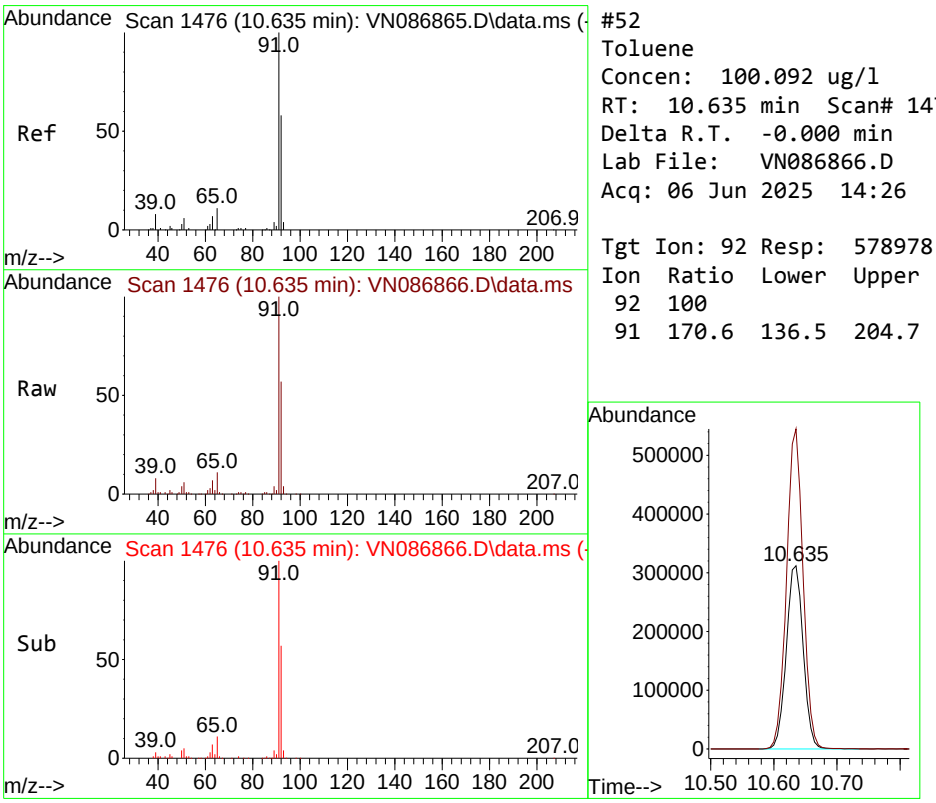
Tgt Ion: 43 Resp: 184327

Ion	Ratio	Lower	Upper
43	100		
58	43.6	34.2	51.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

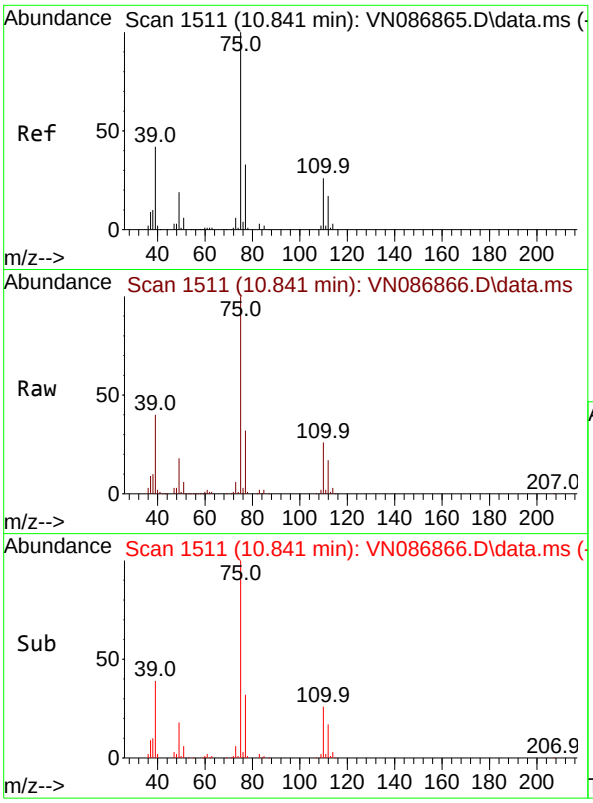
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 100.092 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 92 Resp: 578978

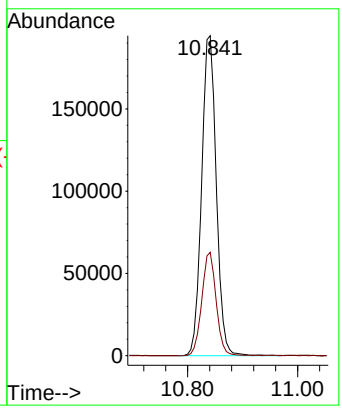
Ion	Ratio	Lower	Upper
92	100		
91	170.6	136.5	204.7



#53
t-1,3-Dichloropropene
Concen: 102.077 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 75 Resp: 35920

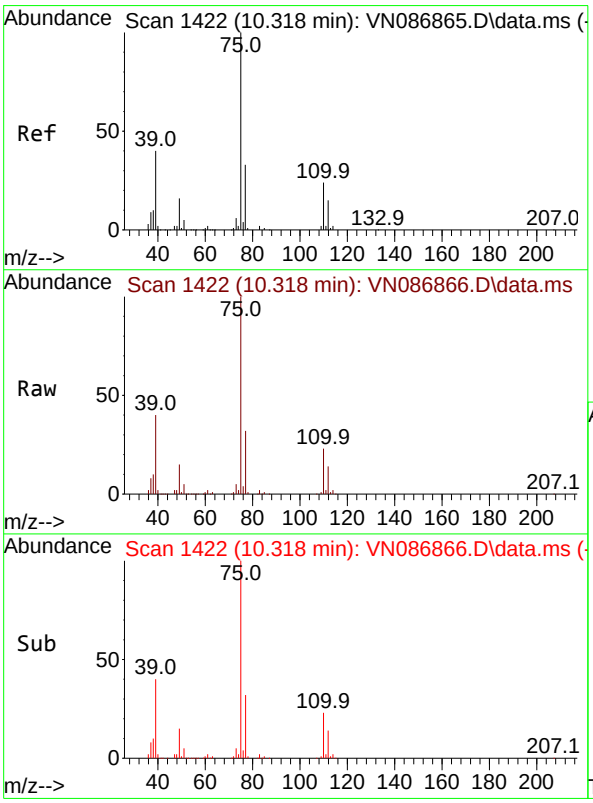
Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

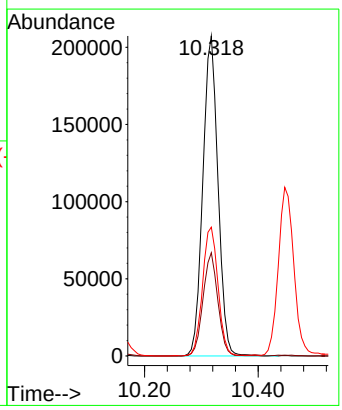
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

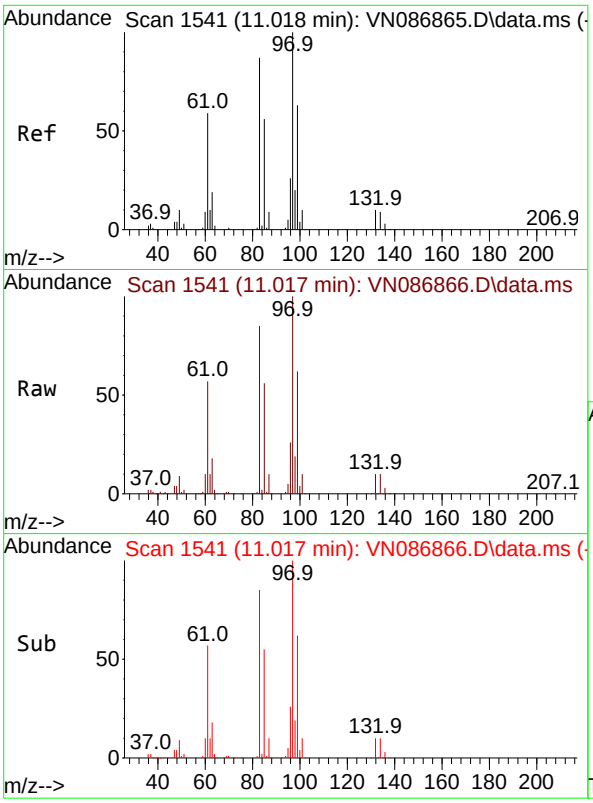


#54
cis-1,3-Dichloropropene
Concen: 101.730 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 75 Resp: 383030

Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.2	39.4
39	40.1	32.3	48.5

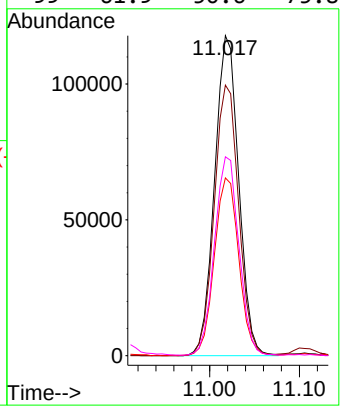




#55
1,1,2-Trichloroethane
Concen: 98.808 ug/l
RT: 11.017 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 97 Resp: 21992

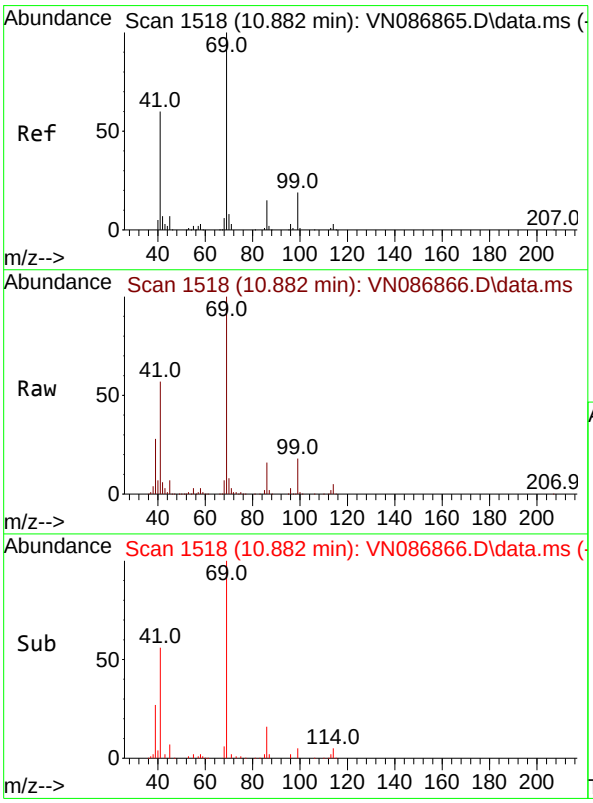
Ion	Ratio	Lower	Upper
97	100		
83	84.5	69.7	104.5
85	55.6	45.1	67.7
99	61.9	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

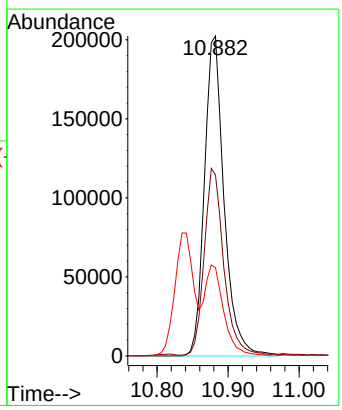
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

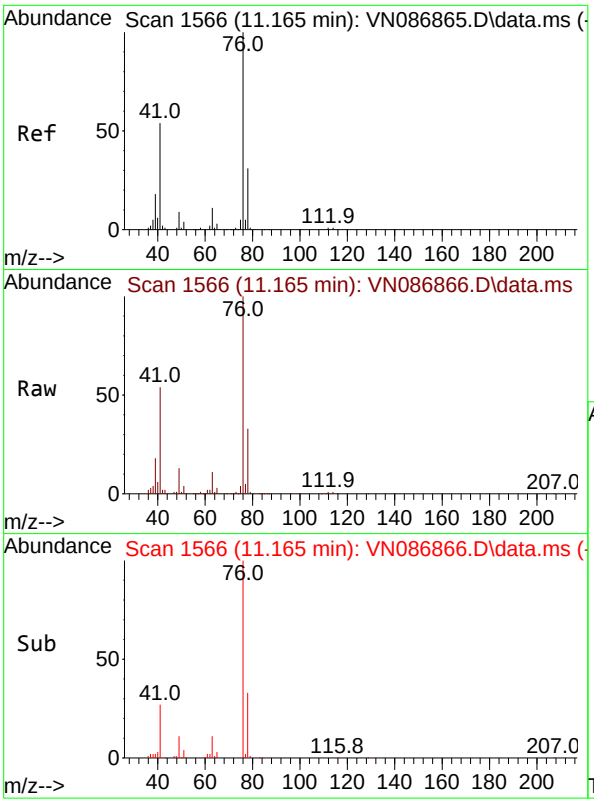


#56
Ethyl methacrylate
Concen: 109.955 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 69 Resp: 389802

Ion	Ratio	Lower	Upper
69	100		
41	58.3	47.2	70.8
39	27.5	23.0	34.6

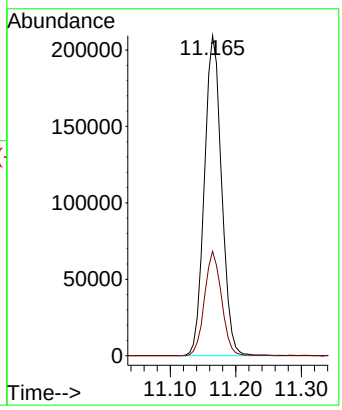




#57
1,3-Dichloropropane
Concen: 99.069 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 76 Resp: 38251

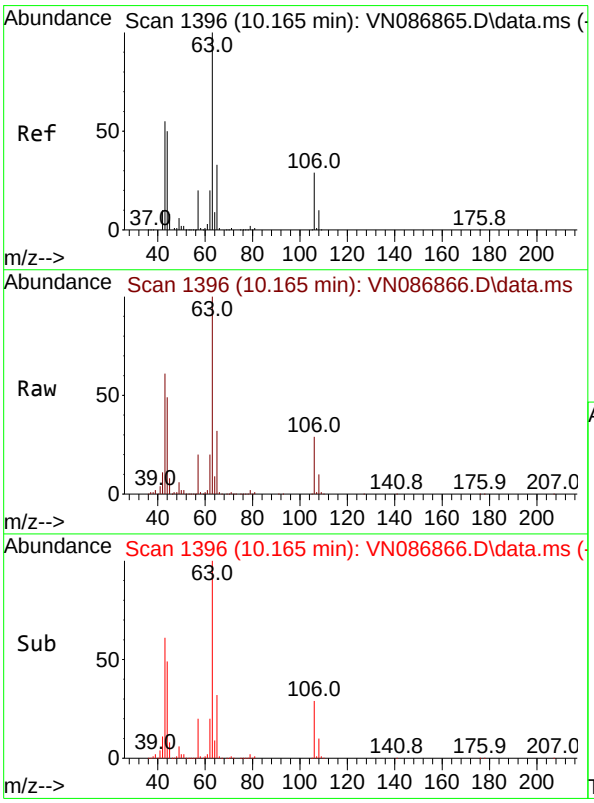
Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

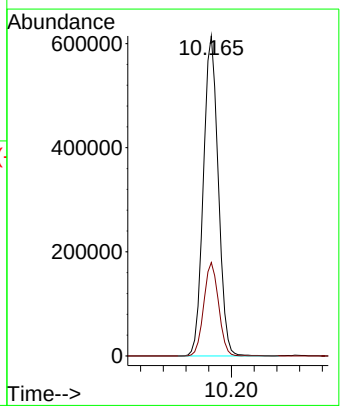
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

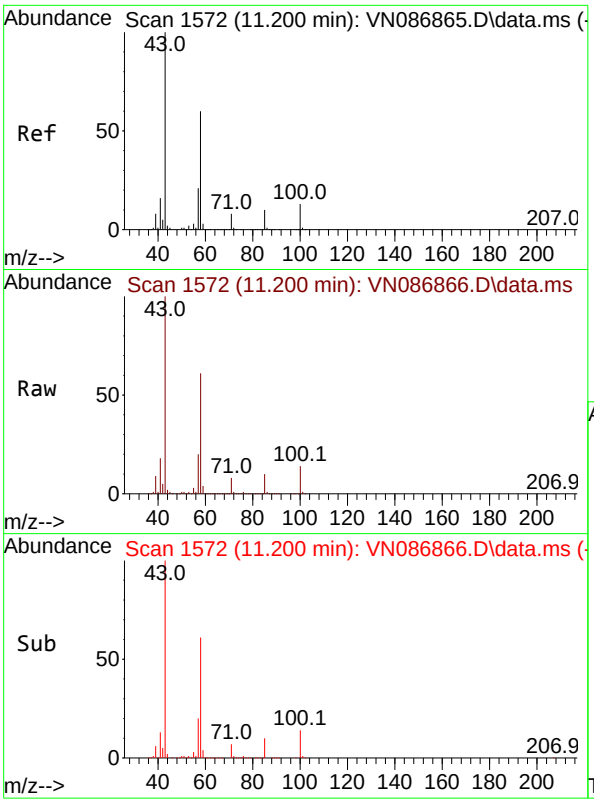


#58
2-Chloroethyl Vinyl ether
Concen: 526.621 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 63 Resp: 1113523

Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.0	34.6

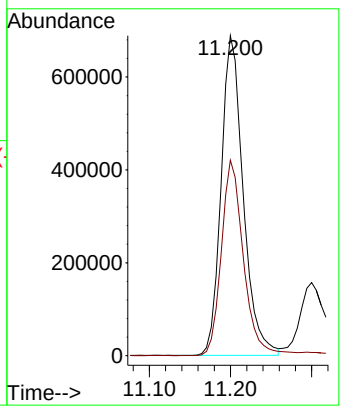




#59
2-Hexanone
Concen: 567.535 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 43 Resp: 130153

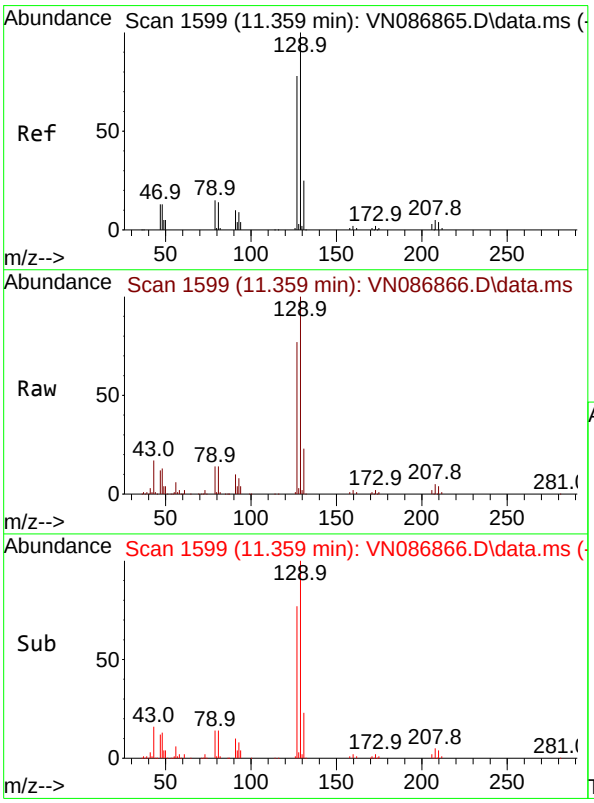
Ion	Ratio	Lower	Upper
43	100		
58	61.4	30.4	91.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

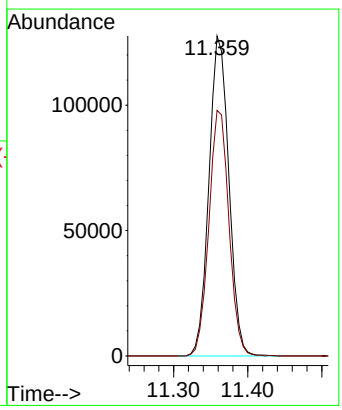
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

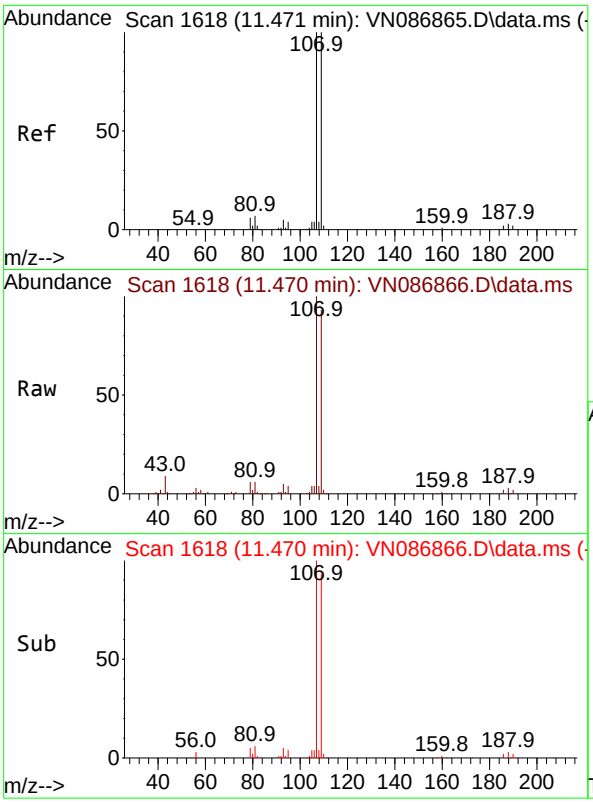


#60
Dibromochloromethane
Concen: 102.616 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:129 Resp: 237965

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.8

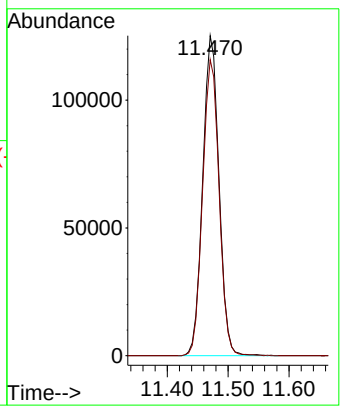




#61
1,2-Dibromoethane
Concen: 101.787 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:107 Resp: 23221

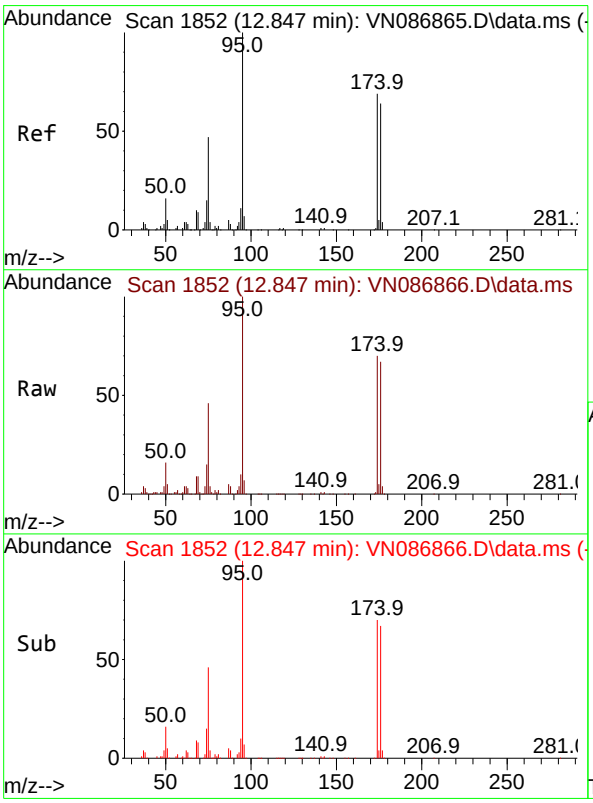
Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

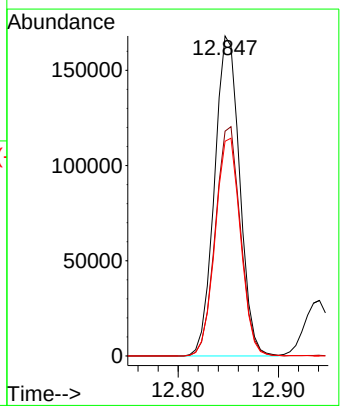
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

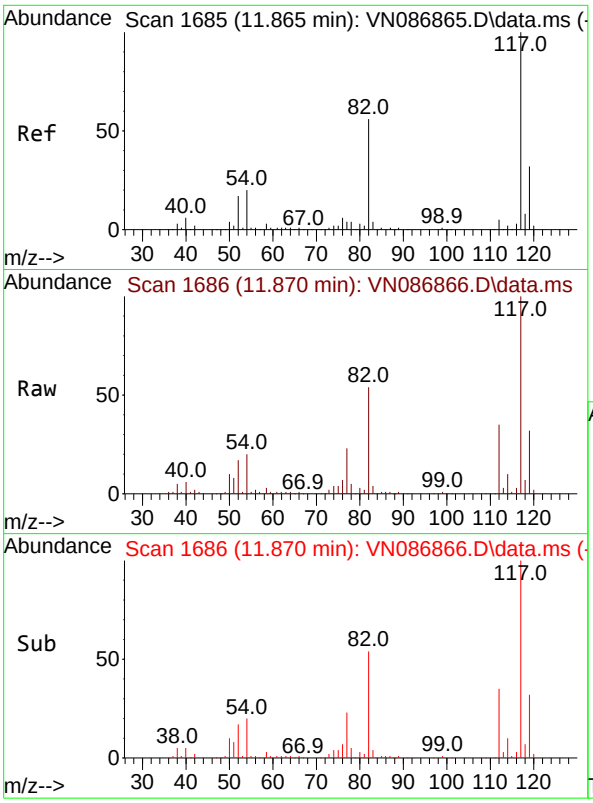


#62
4-Bromofluorobenzene
Concen: 102.339 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 95 Resp: 292385

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	141.8
176	68.6	0.0	132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

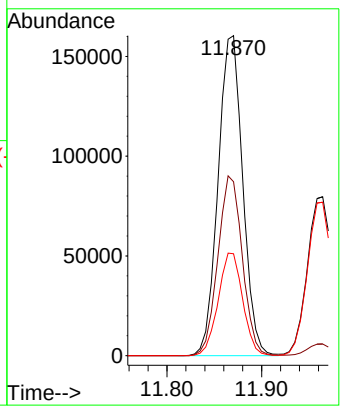
Tgt Ion:117 Resp: 29031

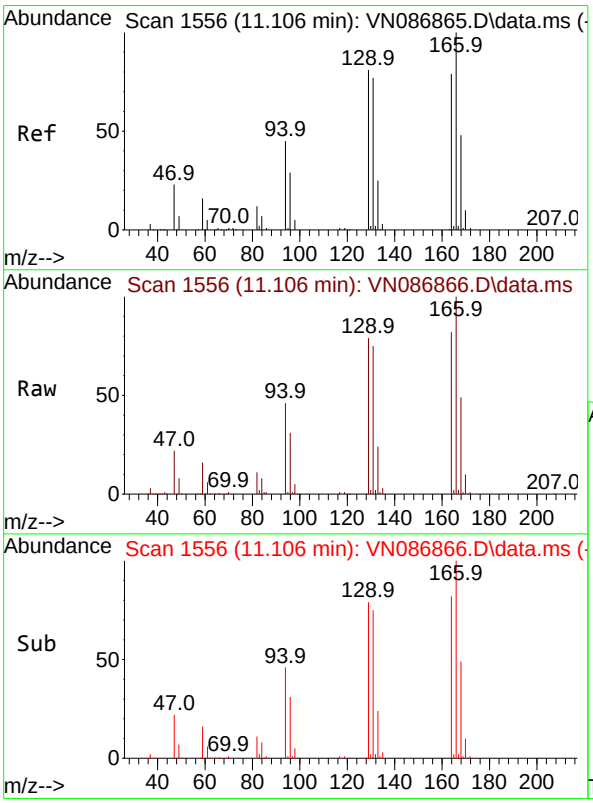
Ion	Ratio	Lower	Upper
117	100		
82	54.3	44.6	67.0
119	31.9	25.5	38.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

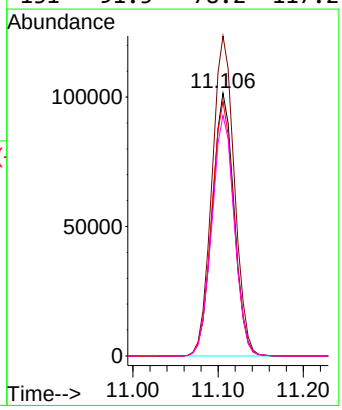


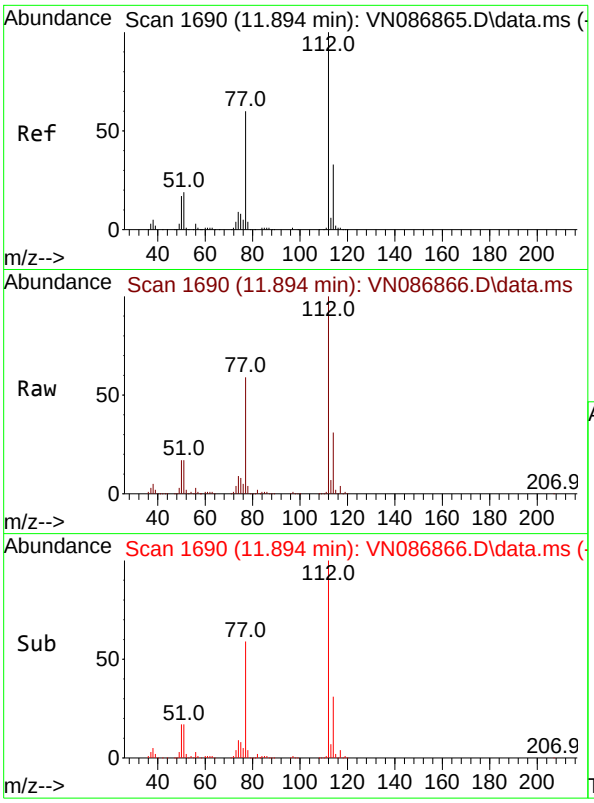


#64
Tetrachloroethene
Concen: 98.824 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:164 Resp: 181568

Ion	Ratio	Lower	Upper
164	100		
166	121.8	101.8	152.8
129	96.8	83.0	124.4
131	91.5	78.2	117.2

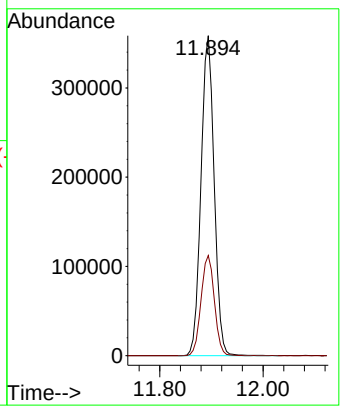




#65
Chlorobenzene
Concen: 98.793 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:112 Resp: 63256

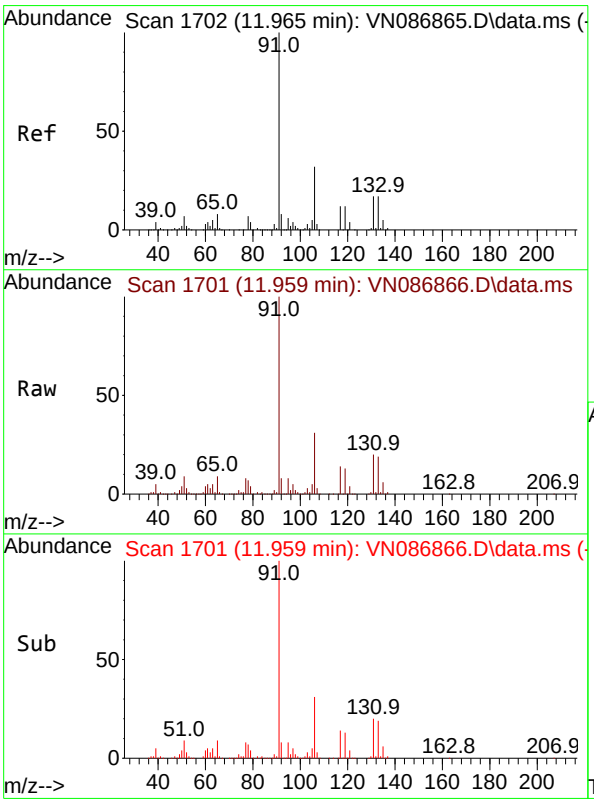
Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

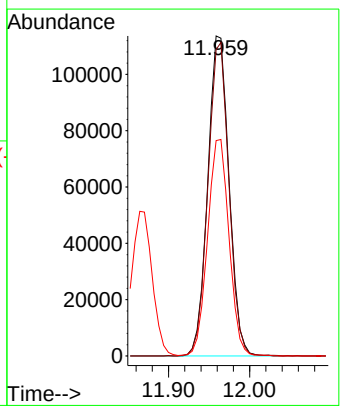
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

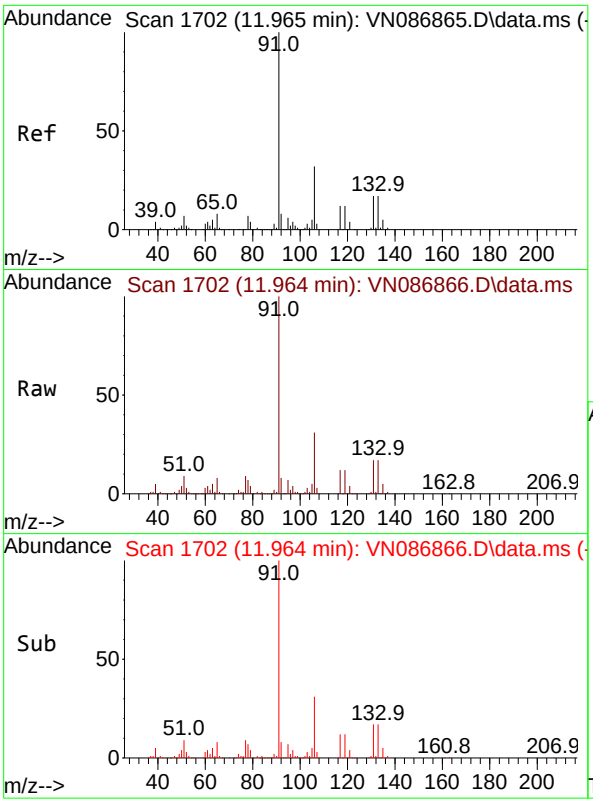


#66
1,1,1,2-Tetrachloroethane
Concen: 100.521 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:131 Resp: 206895

Ion	Ratio	Lower	Upper
131	100		
133	96.4	48.3	144.8
119	68.2	34.0	101.8

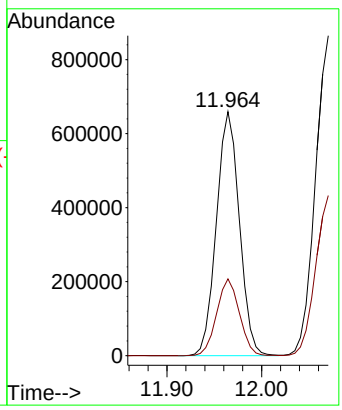




#67
Ethyl Benzene
Concen: 100.717 ug/l
RT: 11.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 91 Resp: 111080

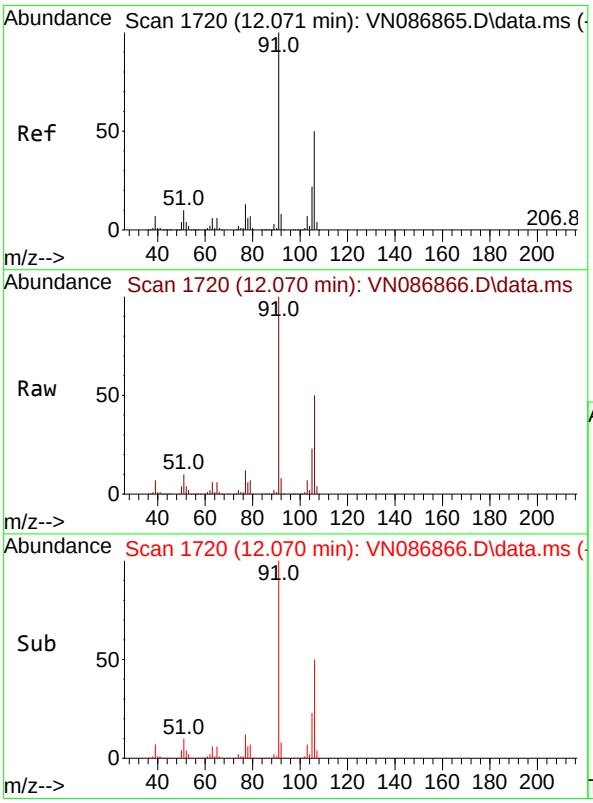
Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

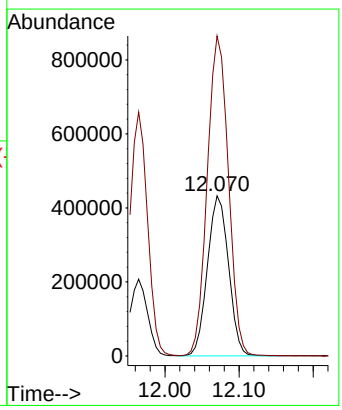
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

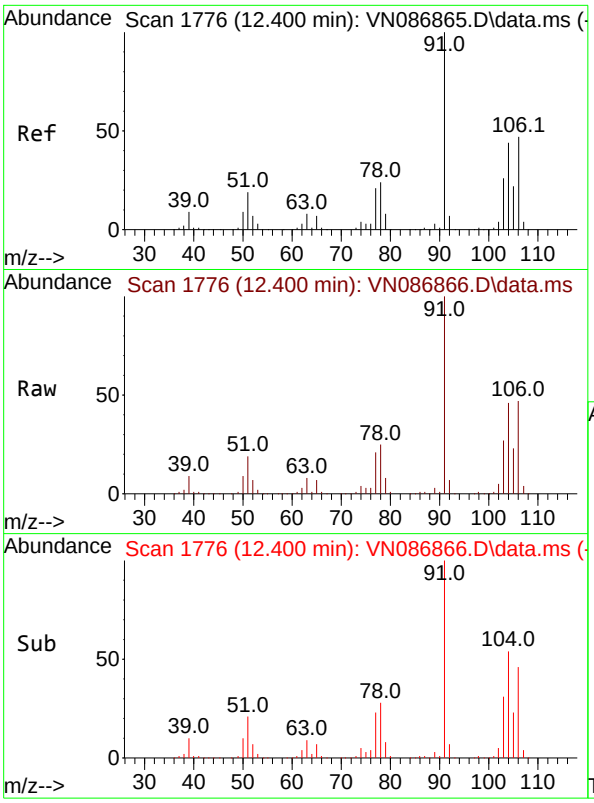


#68
m/p-Xylenes
Concen: 202.411 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:106 Resp: 854557

Ion	Ratio	Lower	Upper
106	100		
91	200.4	159.4	239.0

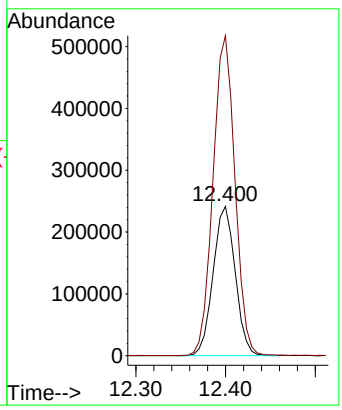




#69
o-Xylene
Concen: 102.070 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:106 Resp: 41271

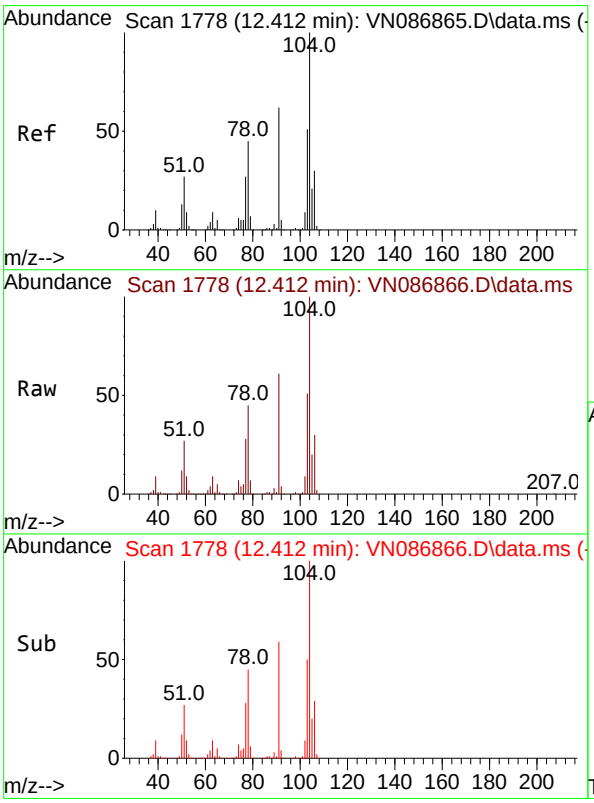
Ion	Ratio	Lower	Upper
106	100		
91	212.8	106.1	318.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

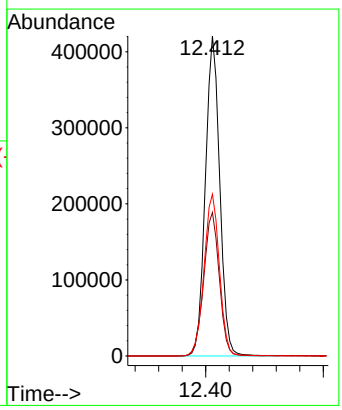
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

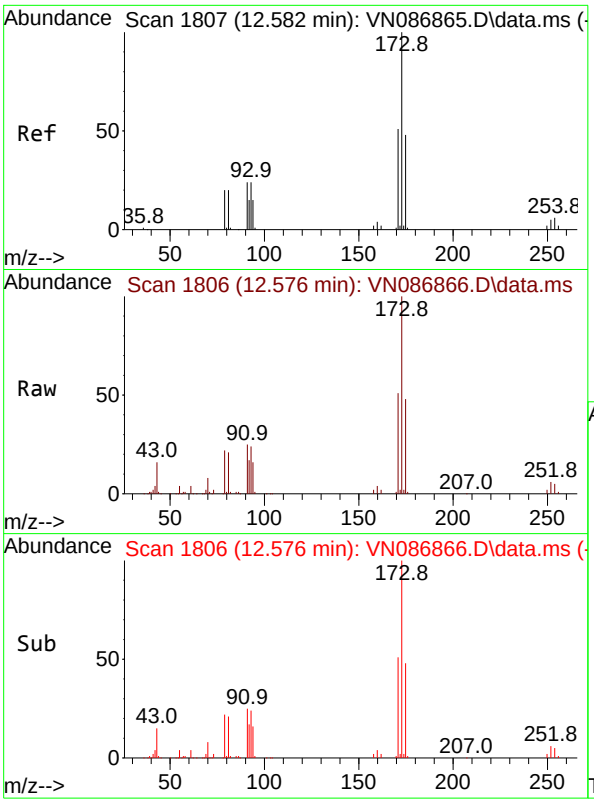


#70
Styrene
Concen: 103.127 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:104 Resp: 713548

Ion	Ratio	Lower	Upper
104	100		
78	48.4	38.5	57.7
103	54.0	43.1	64.7

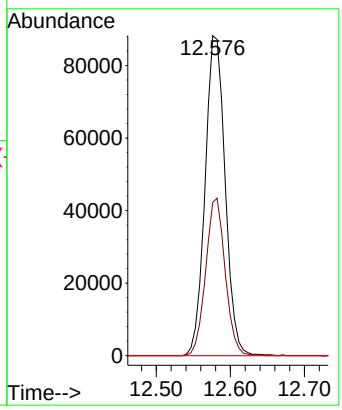




#71
Bromoform
Concen: 108.707 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:173 Resp: 16578

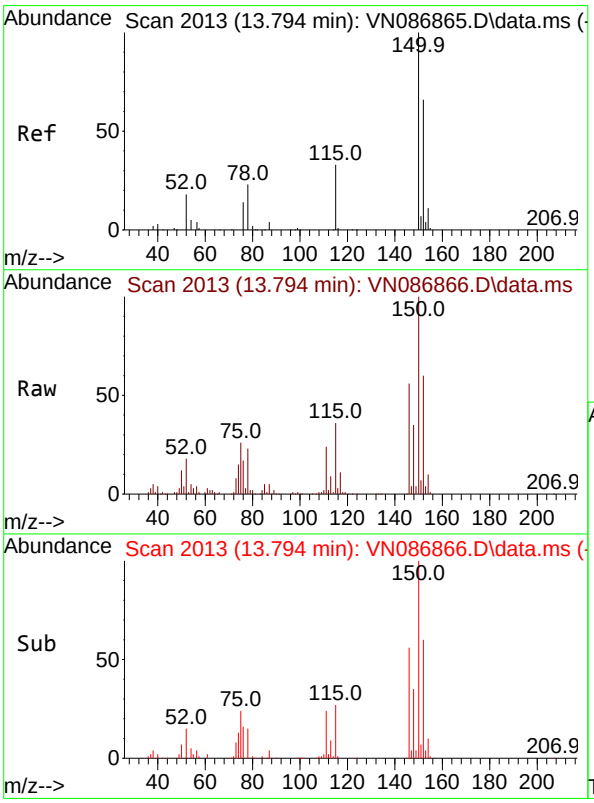
Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

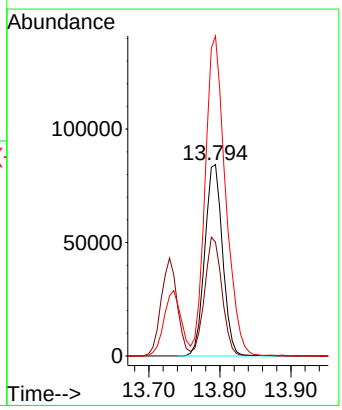
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

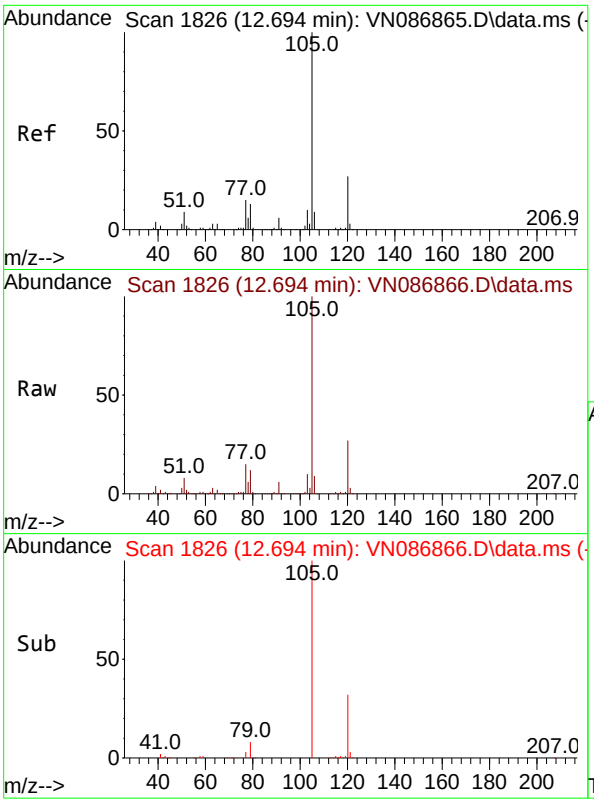


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:152 Resp: 147098

Ion	Ratio	Lower	Upper
152	100		
115	60.1	30.1	90.5
150	190.4	0.0	345.0

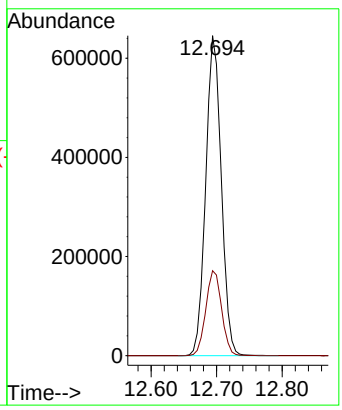




#73
Isopropylbenzene
Concen: 99.410 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:105 Resp: 106529

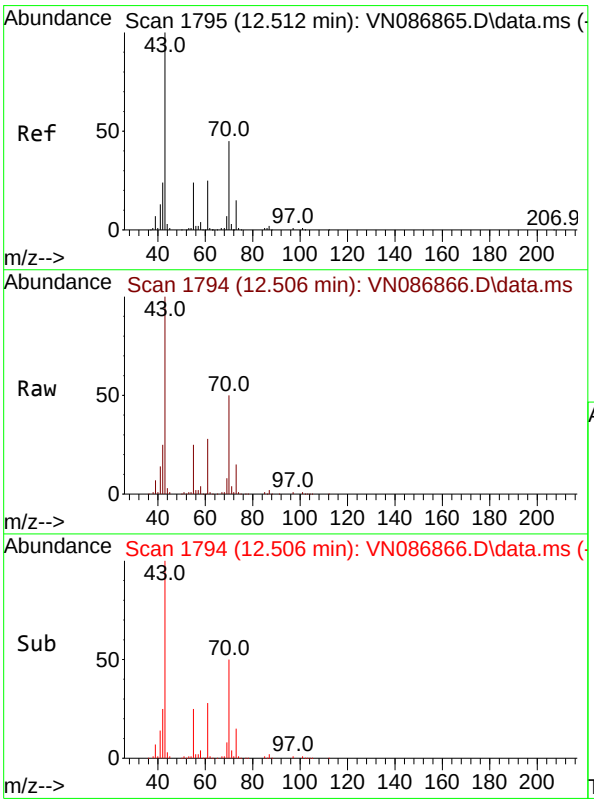
Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

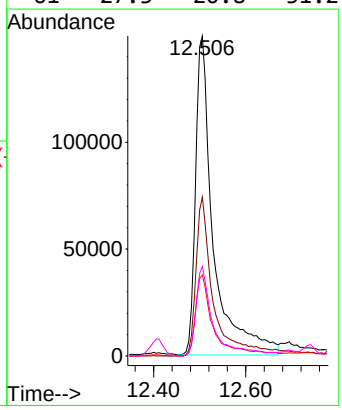
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

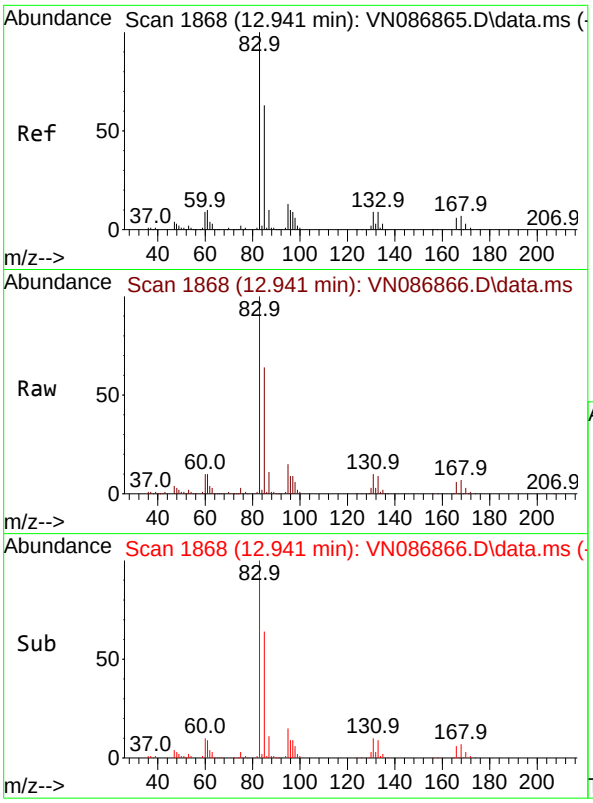


#74
N-amyl acetate
Concen: 113.475 ug/l
RT: 12.506 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 43 Resp: 403587

Ion	Ratio	Lower	Upper
43	100		
70	47.7	37.6	56.4
55	25.0	19.0	28.6
61	27.3	20.8	31.2

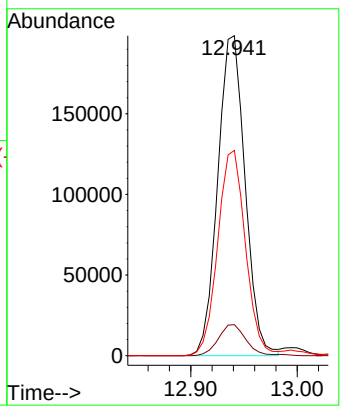




#75
1,1,2,2-Tetrachloroethane
Concen: 97.616 ug/l
RT: 12.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 83 Resp: 35438

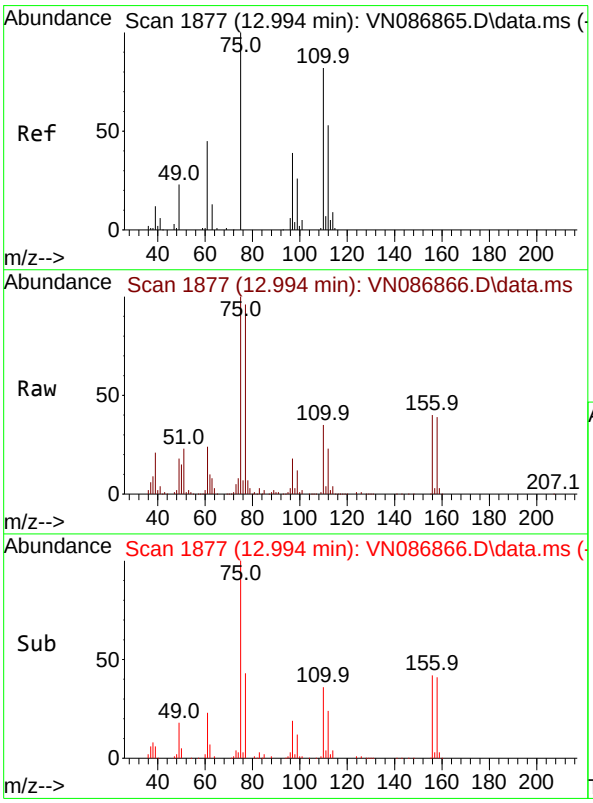
Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.9	14.7
85	64.9	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

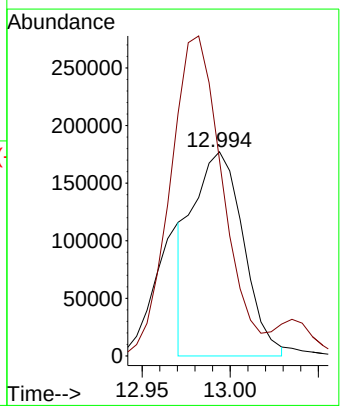
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

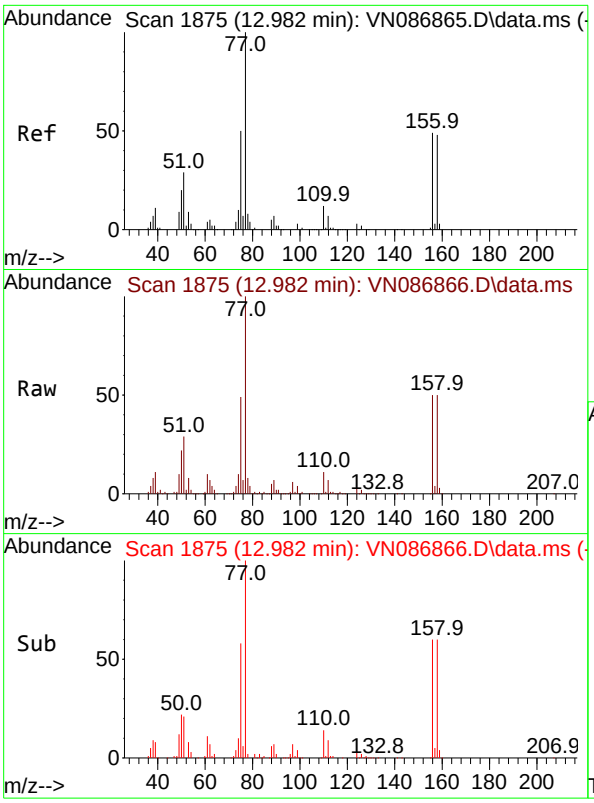


#76
1,2,3-Trichloropropane
Concen: 100.738 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 75 Resp: 353334

Ion	Ratio	Lower	Upper
75	100		
77	162.2	79.3	237.9

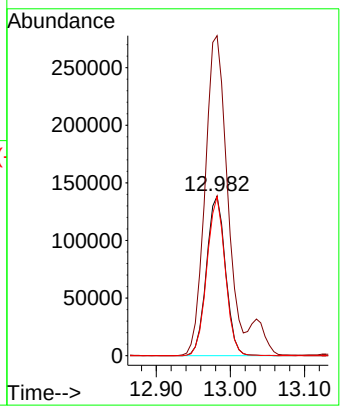




#77
Bromobenzene
Concen: 100.266 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:156 Resp: 24641

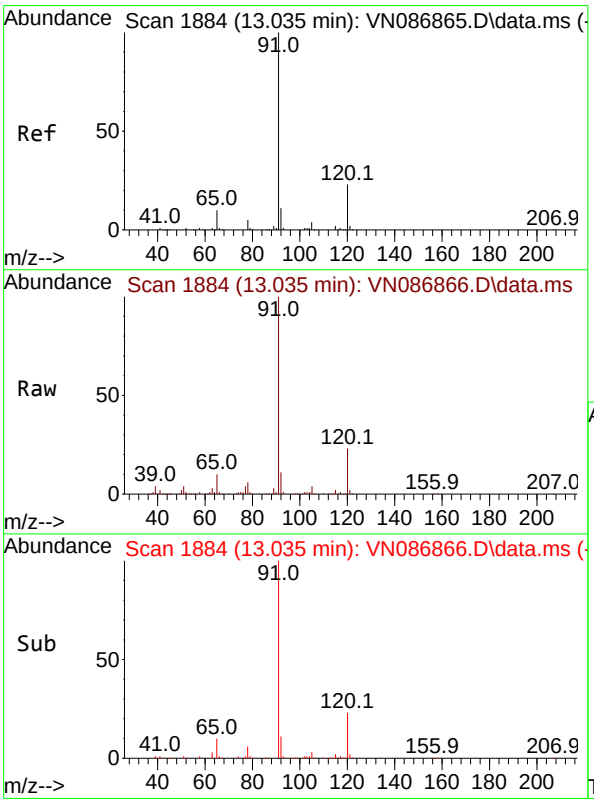
Ion	Ratio	Lower	Upper
156	100		
77	232.6	117.7	353.1
158	96.4	48.1	144.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

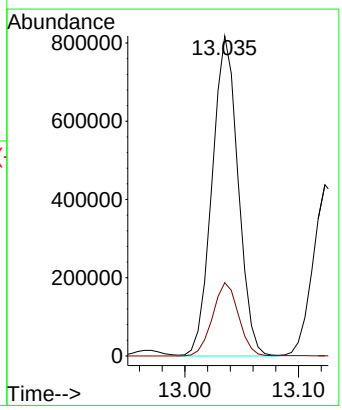
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

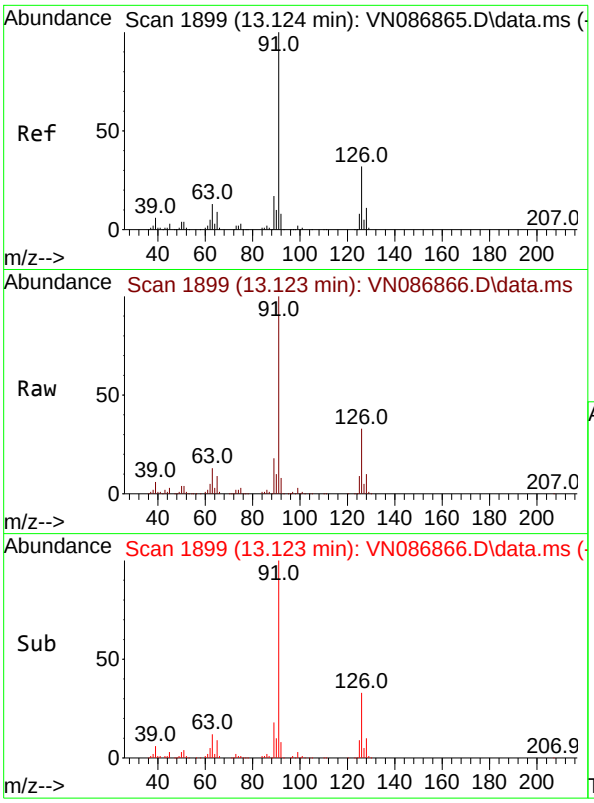


#78
n-propylbenzene
Concen: 99.948 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 91 Resp: 1301631

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.4	34.2

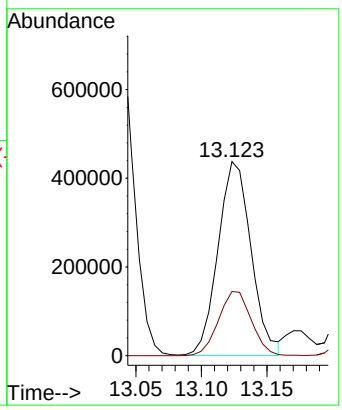




#79
2-Chlorotoluene
Concen: 98.630 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 91 Resp: 77030

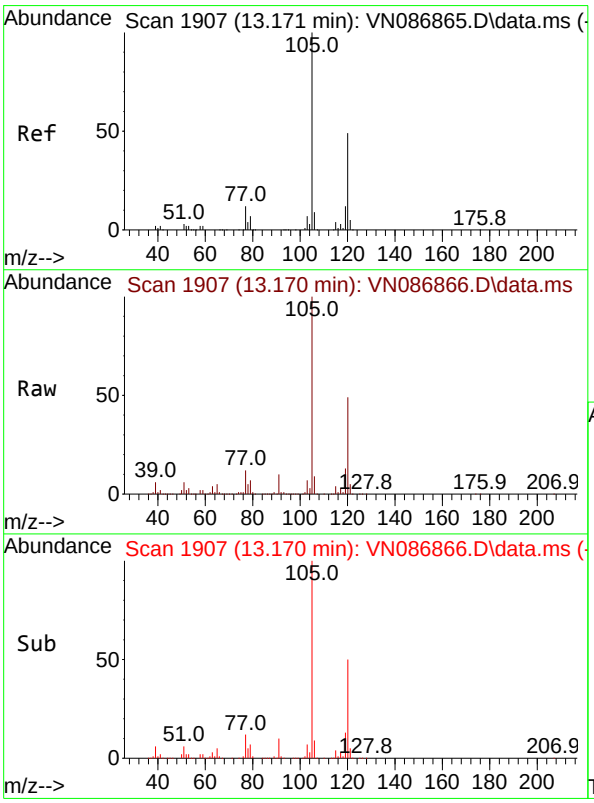
Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

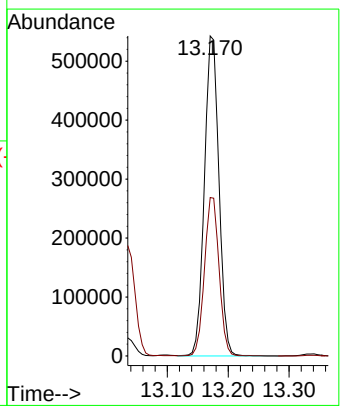
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

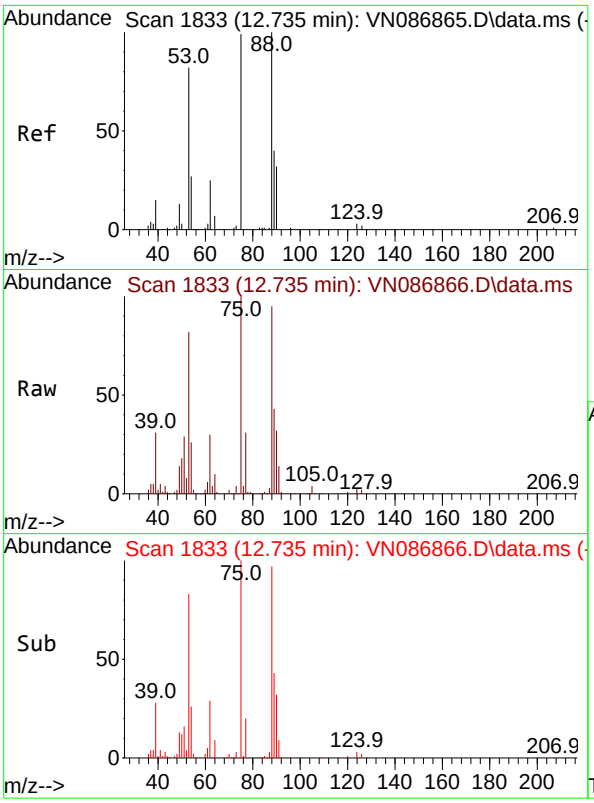


#80
1,3,5-Trimethylbenzene
Concen: 101.873 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:105 Resp: 901317

Ion	Ratio	Lower	Upper
105	100		
120	49.7	24.9	74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 105.820 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

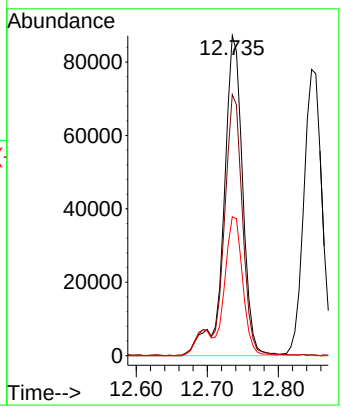
Tgt Ion: 75 Resp: 16073

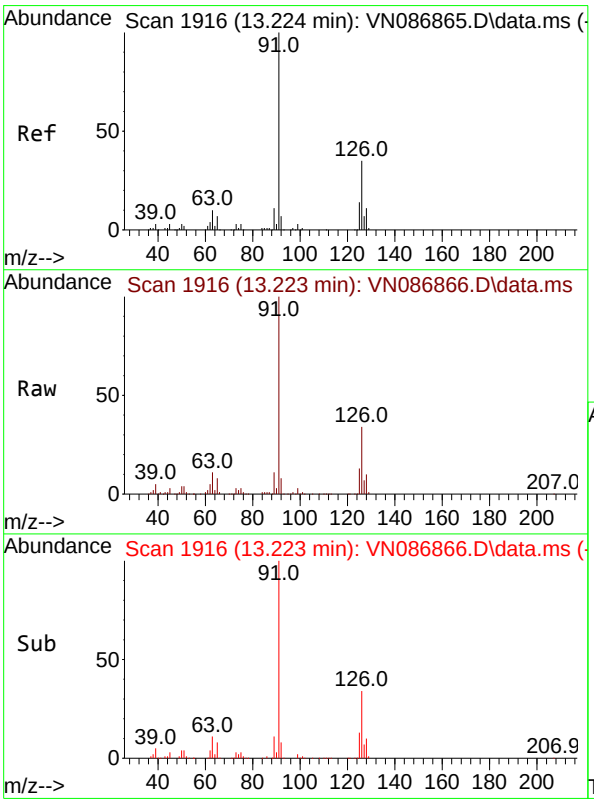
Ion	Ratio	Lower	Upper
75	100		
53	76.0	66.6	99.8
89	41.1	36.7	55.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

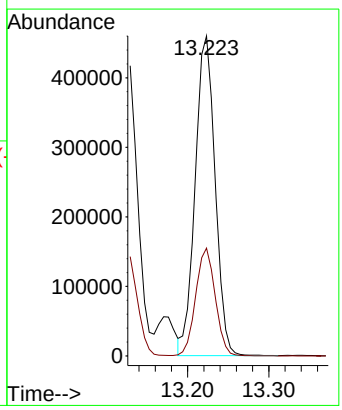


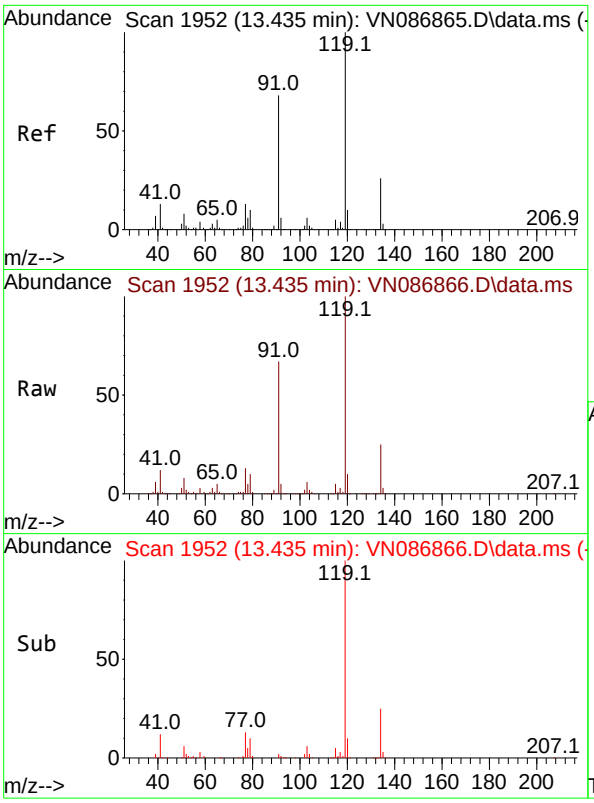


#82
4-Chlorotoluene
Concen: 99.166 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 91 Resp: 783657

Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.7	50.1

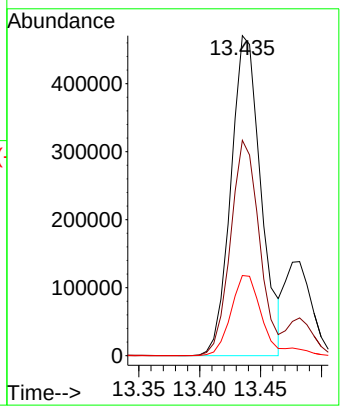




#83
tert-Butylbenzene
Concen: 99.710 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:119 Resp: 80752

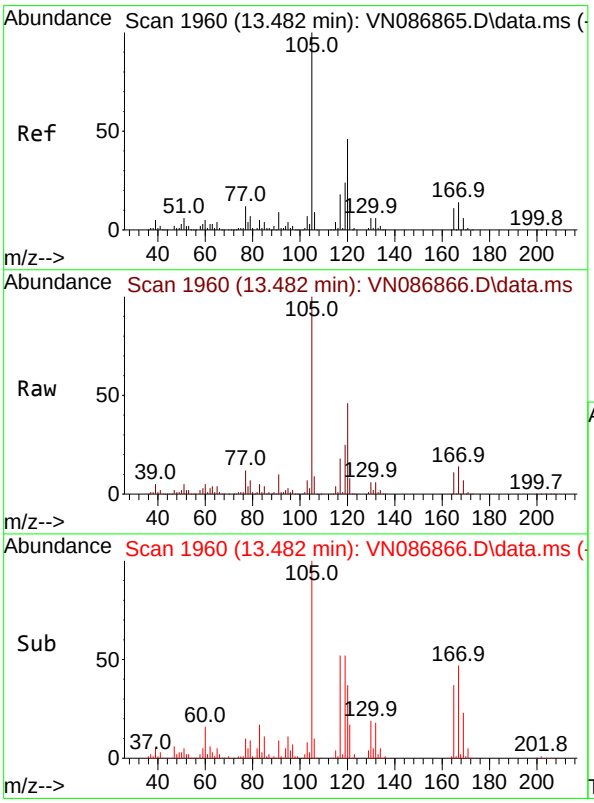
Ion	Ratio	Lower	Upper
119	100		
91	64.6	32.1	96.5
134	26.6	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

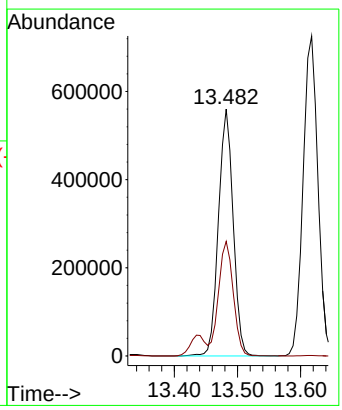
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

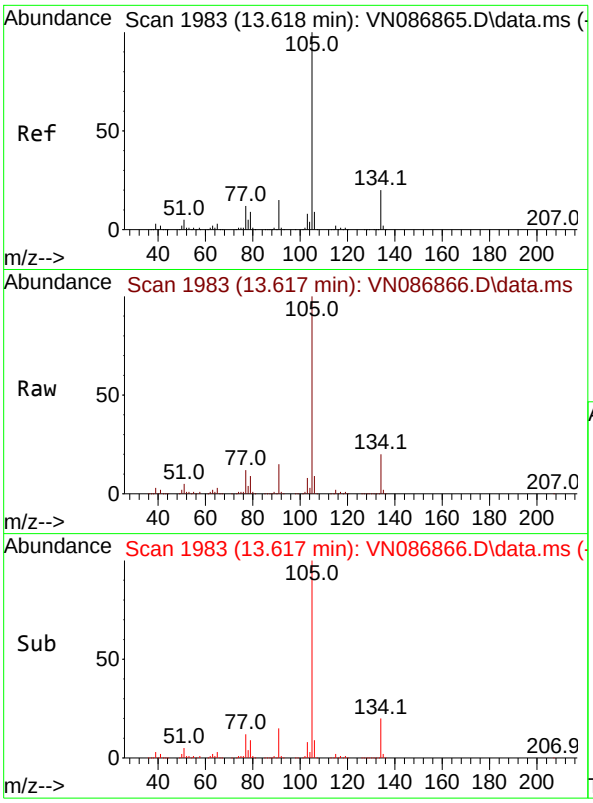


#84
1,2,4-Trimethylbenzene
Concen: 101.983 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:105 Resp: 904794

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.2	69.6





#85
sec-Butylbenzene
Concen: 100.513 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

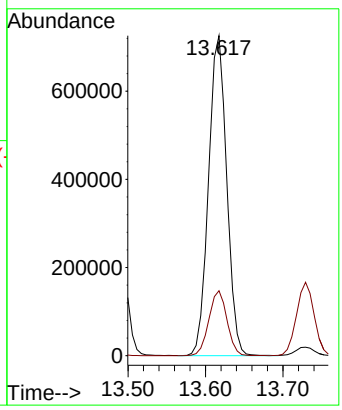
Tgt Ion:105 Resp: 118215

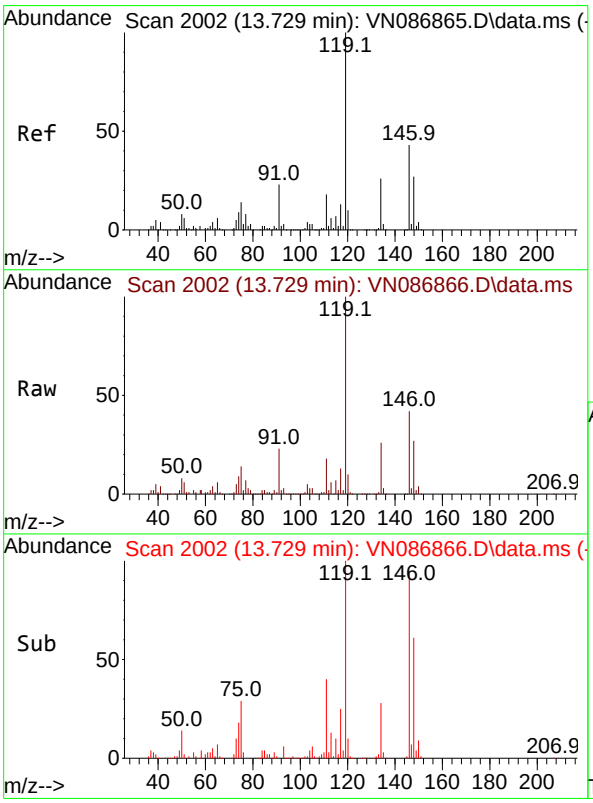
Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

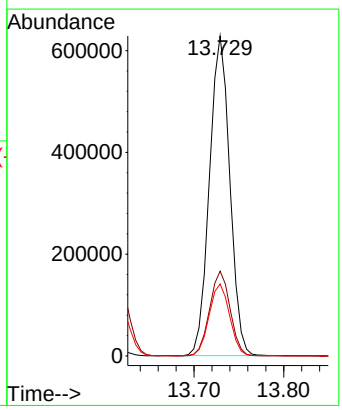


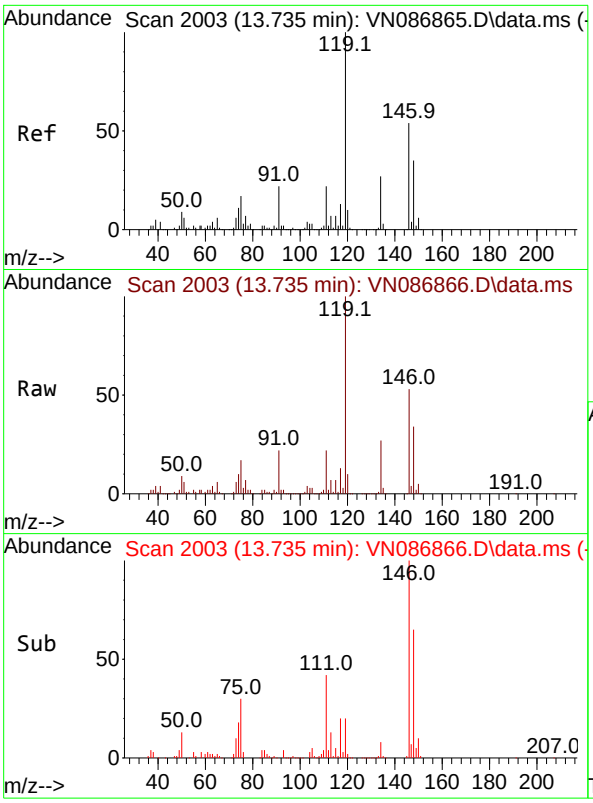


#86
p-Isopropyltoluene
Concen: 101.857 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:119 Resp: 990273

Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.5	40.4
91	22.6	11.5	34.4





#87
1,3-Dichlorobenzene
Concen: 98.063 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

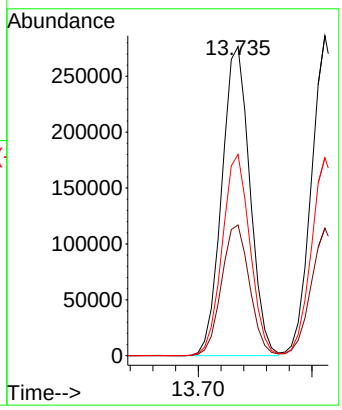
Tgt Ion:146 Resp: 47416

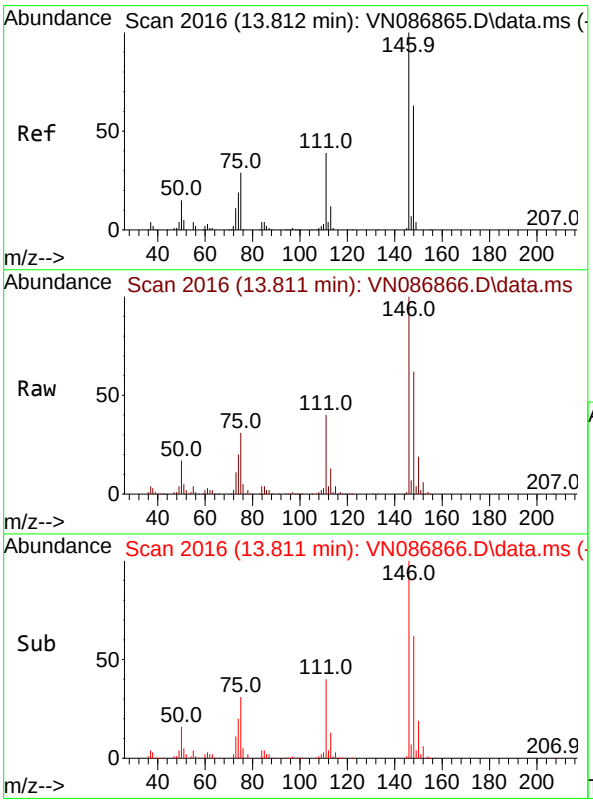
Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.9	62.8
148	64.4	32.0	96.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

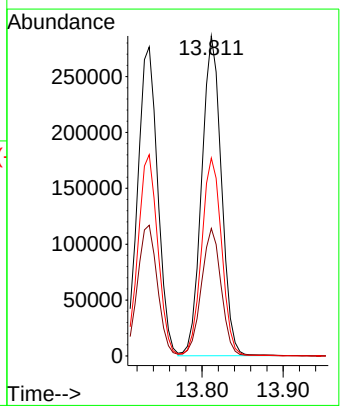


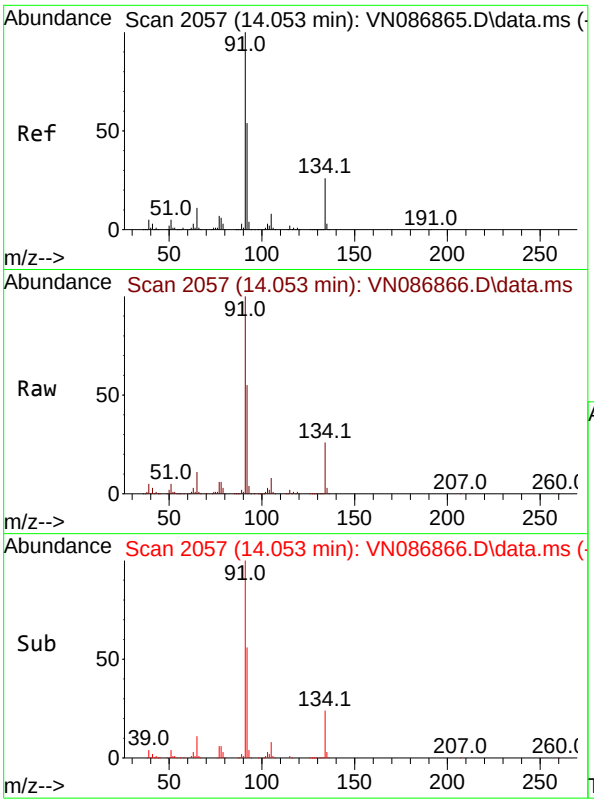


#88
1,4-Dichlorobenzene
Concen: 97.978 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:146 Resp: 483003

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.9	59.7
148	63.0	31.8	95.4

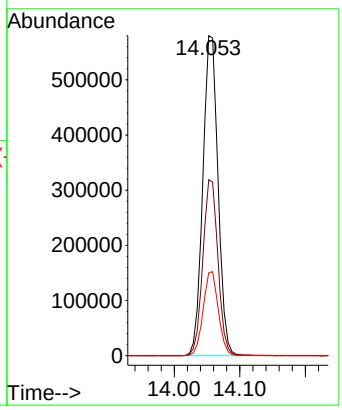




#89
n-Butylbenzene
Concen: 99.598 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 91 Resp: 93791

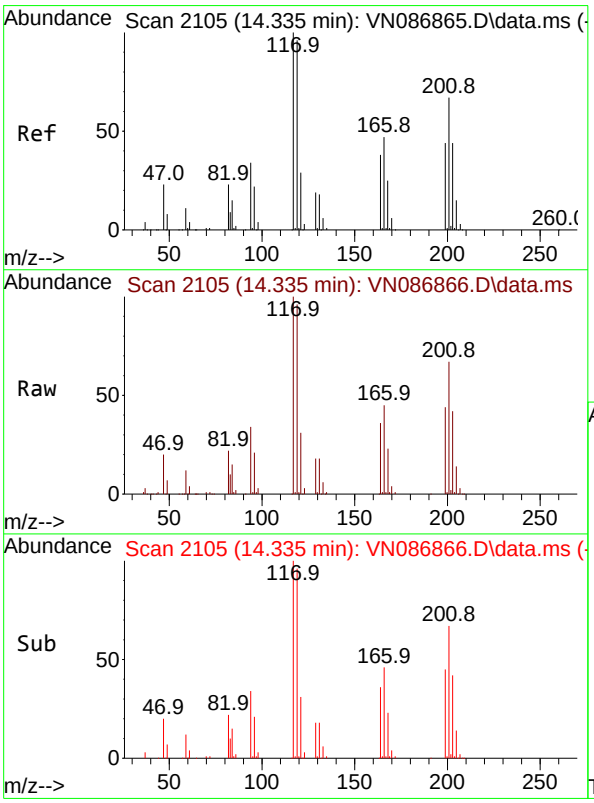
Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.5	82.4
134	26.2	13.0	39.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

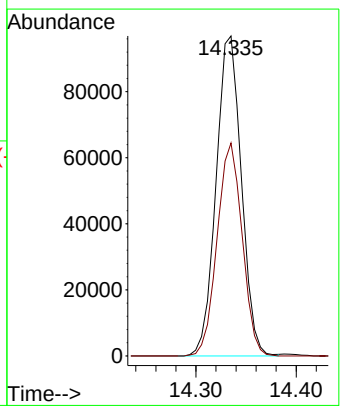
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

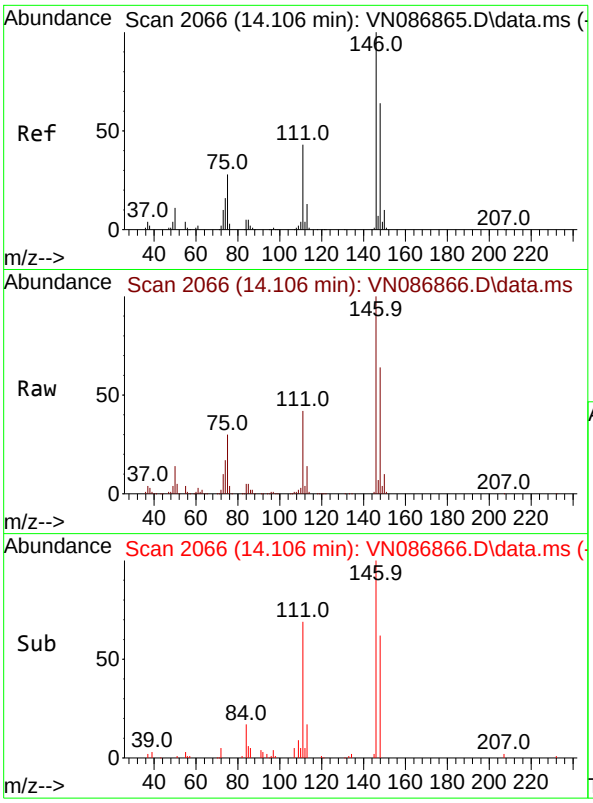


#90
Hexachloroethane
Concen: 103.019 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:117 Resp: 169772

Ion	Ratio	Lower	Upper
117	100		
201	65.8	33.2	99.6

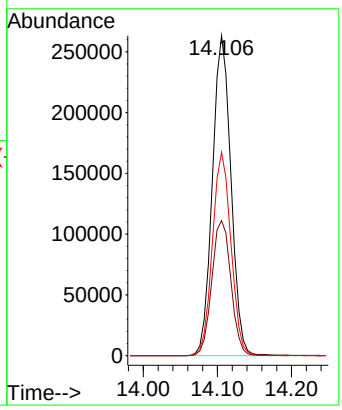




#91
1,2-Dichlorobenzene
Concen: 98.602 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:146 Resp: 45804

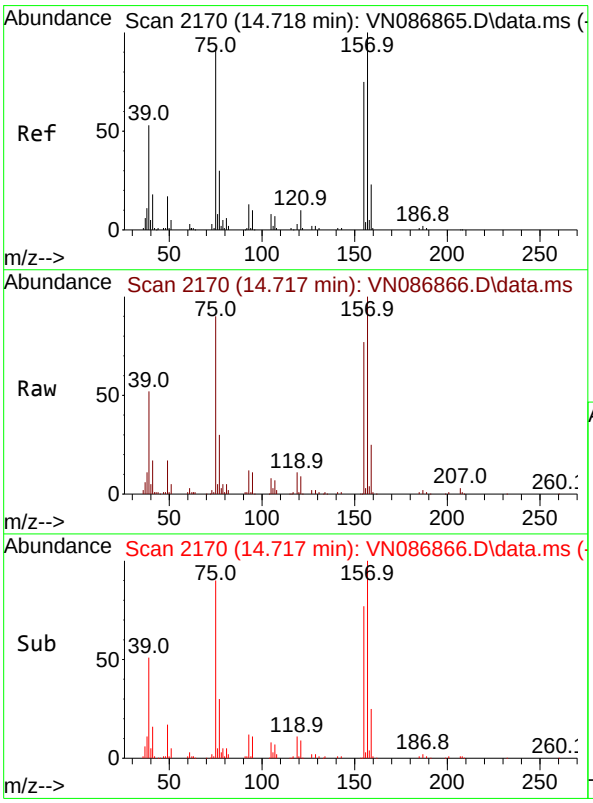
Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.6	64.6
148	63.5	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

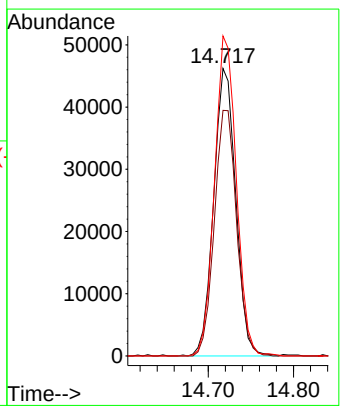
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

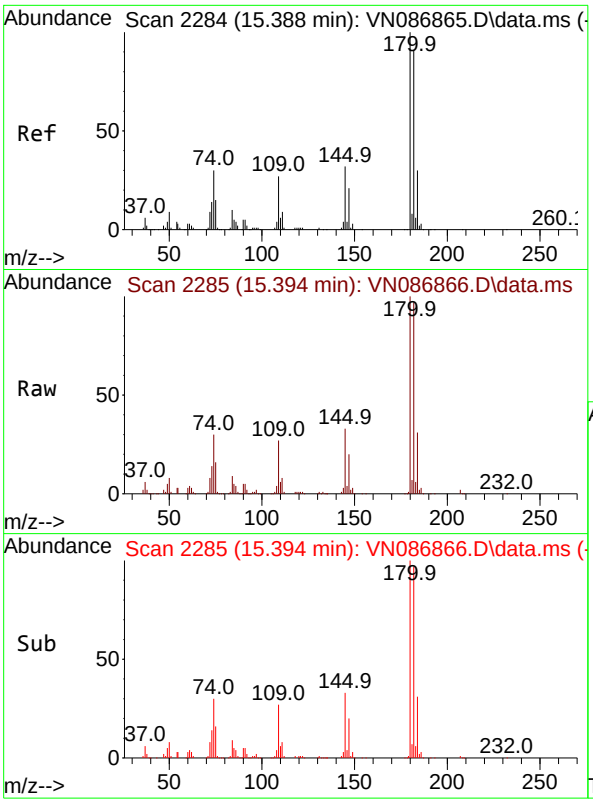


#92
1,2-Dibromo-3-Chloropropane
Concen: 95.877 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 75 Resp: 83243

Ion	Ratio	Lower	Upper
75	100		
155	86.1	41.1	123.4
157	109.8	52.7	158.1





#93
1,2,4-Trichlorobenzene
Concen: 100.751 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

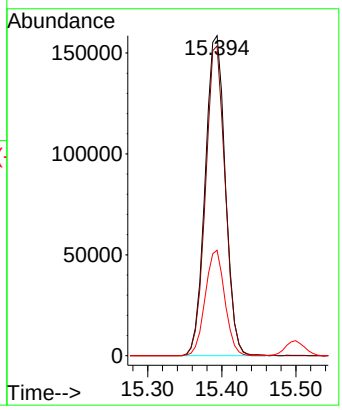
Tgt Ion:180 Resp: 29887

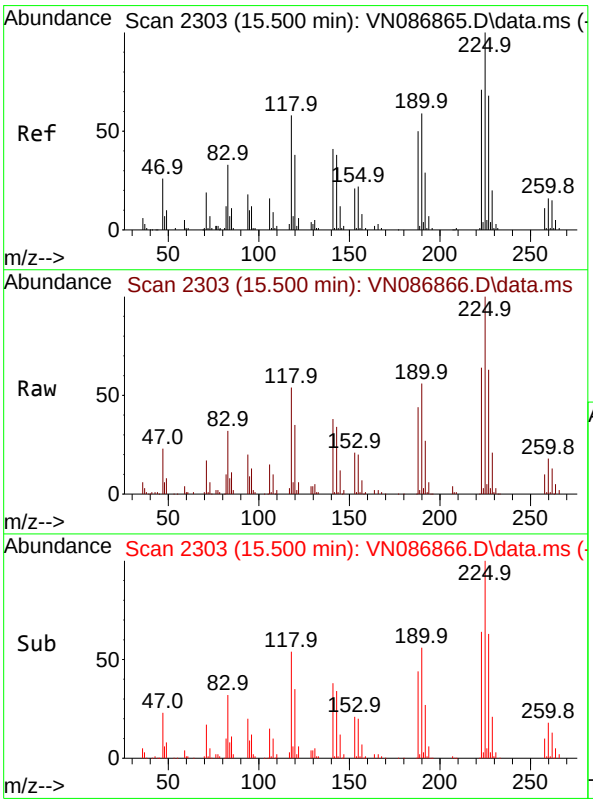
Ion	Ratio	Lower	Upper
180	100		
182	94.6	46.9	140.7
145	32.2	16.0	47.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

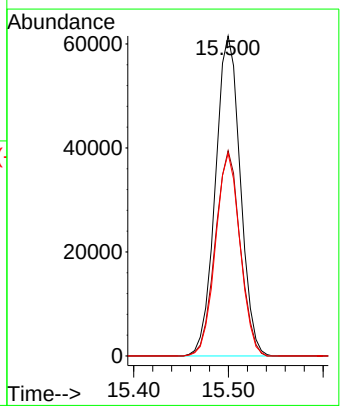


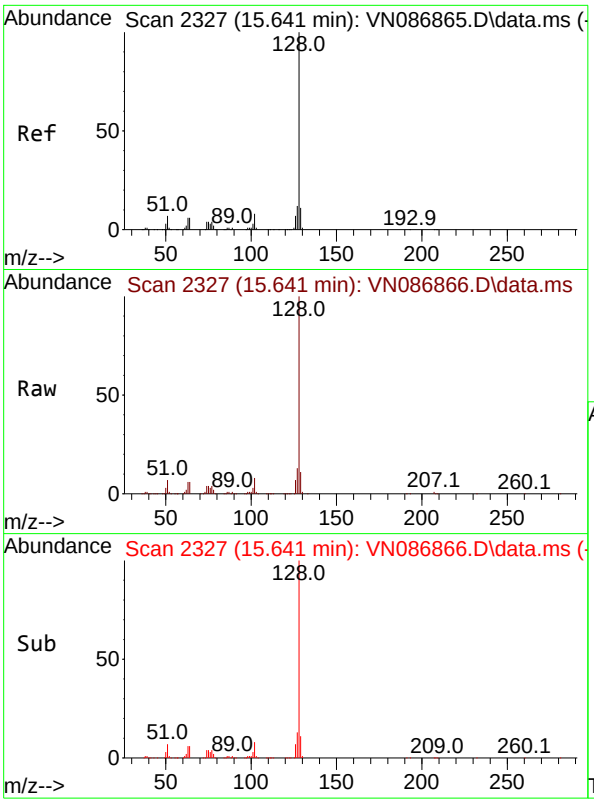


#94
Hexachlorobutadiene
Concen: 101.789 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:225 Resp: 112496

Ion	Ratio	Lower	Upper
225	100		
223	64.2	33.5	100.4
227	62.1	31.1	93.5

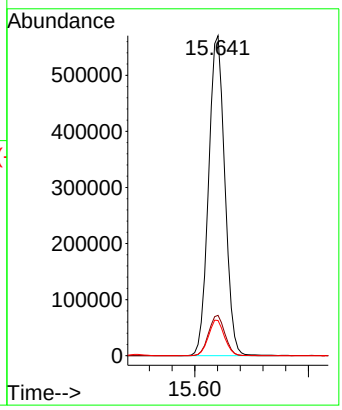




#95
Naphthalene
Concen: 102.290 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:128 Resp: 112943

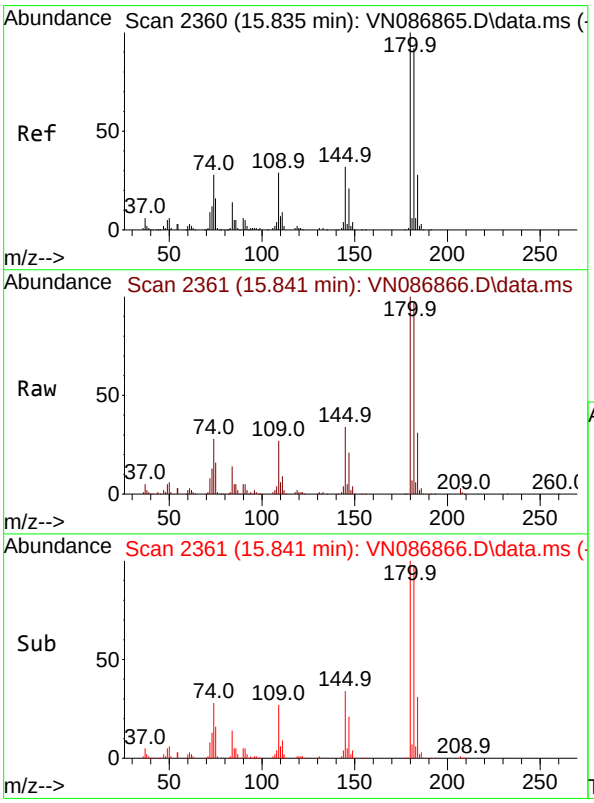
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

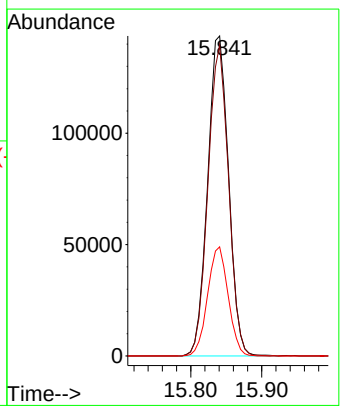
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 99.796 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:180 Resp: 294127

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.0	141.0
145	33.5	16.6	49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086867.D
Acq On : 06 Jun 2025 14:49
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	172832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	307937	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	278552	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	136630	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	389297	168.233	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 336.460%#			
35) Dibromofluoromethane	8.176	113	324474	177.803	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 355.600%#			
50) Toluene-d8	10.570	98	1272348	176.120	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 352.240%#			
62) 4-Bromofluorobenzene	12.847	95	481421	179.364	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 358.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	262143	152.122	ug/l	100
3) Chloromethane	2.394	50	304558	136.865	ug/l	100
4) Vinyl Chloride	2.553	62	335834	146.303	ug/l	100
5) Bromomethane	2.965	94	190786	148.522	ug/l	98
6) Chloroethane	3.136	64	208568	140.664	ug/l	96
7) Trichlorofluoromethane	3.518	101	427871	142.666	ug/l	100
8) Diethyl Ether	3.983	74	191555	146.593	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.388	101	269810	143.192	ug/l	100
10) Methyl Iodide	4.606	142	352020	144.118	ug/l	99
11) Tert butyl alcohol	5.553	59	430866	686.213	ug/l	100
12) 1,1-Dichloroethene	4.353	96	273388	142.118	ug/l	98
13) Acrolein	4.194	56	171625	863.526	ug/l	99
14) Allyl chloride	5.035	41	490852	153.858	ug/l	92
15) Acrylonitrile	5.735	53	1048372	714.344	ug/l	99
16) Acetone	4.447	43	819041	667.435	ug/l	100
17) Carbon Disulfide	4.730	76	742788	139.594	ug/l	100
18) Methyl Acetate	5.041	43	523996	146.527	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	998781	143.396	ug/l	99
20) Methylene Chloride	5.300	84	311597	135.628	ug/l	99
21) trans-1,2-Dichloroethene	5.806	96	290960	135.947	ug/l	97
22) Diisopropyl ether	6.688	45	947638	140.915	ug/l	98
23) Vinyl Acetate	6.618	43	3932872	692.189	ug/l	99
24) 1,1-Dichloroethane	6.582	63	540881	139.761	ug/l	99
25) 2-Butanone	7.494	43	1381940	692.809	ug/l	99
26) 2,2-Dichloropropane	7.500	77	450112	149.519	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	363398	141.974	ug/l	99
28) Bromochloromethane	7.824	49	290594	152.718	ug/l	98
29) Tetrahydrofuran	7.847	42	898159	691.211	ug/l	98
30) Chloroform	7.976	83	534038	138.179	ug/l	97
31) Cyclohexane	8.265	56	505795	134.766	ug/l	96
32) 1,1,1-Trichloroethane	8.176	97	462854	140.807	ug/l	99
36) 1,1-Dichloropropene	8.376	75	393166	144.584	ug/l	100
37) Ethyl Acetate	7.571	43	494000	142.706	ug/l	99
38) Carbon Tetrachloride	8.371	117	388595	145.557	ug/l	98
39) Methylcyclohexane	9.606	83	544437	146.136	ug/l	97
40) Benzene	8.612	78	1266139	142.388	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086867.D
Acq On : 06 Jun 2025 14:49
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	276400	142.174	ug/l		98
42) 1,2-Dichloroethane	8.676	62	381516	141.455	ug/l		100
43) Isopropyl Acetate	8.694	43	780791	140.531	ug/l		99
44) Trichloroethene	9.359	130	302548	143.490	ug/l		96
45) 1,2-Dichloropropane	9.623	63	309047	142.856	ug/l		100
46) Dibromomethane	9.712	93	208461	145.074	ug/l		100
47) Bromodichloromethane	9.894	83	430011	145.449	ug/l		100
48) Methyl methacrylate	9.688	41	366967	143.502	ug/l		99
49) 1,4-Dioxane	9.712	88	138035	2967.116	ug/l	#	100
51) 4-Methyl-2-Pentanone	10.447	43	2438311	728.995	ug/l		98
52) Toluene	10.635	92	793270	145.976	ug/l		100
53) t-1,3-Dichloropropene	10.841	75	489809	148.163	ug/l		97
54) cis-1,3-Dichloropropene	10.318	75	518092	146.469	ug/l		99
55) 1,1,2-Trichloroethane	11.017	97	298151	142.588	ug/l		99
56) Ethyl methacrylate	10.876	69	533912	160.311	ug/l		98
57) 1,3-Dichloropropane	11.165	76	516391	142.363	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.165	63	1869543	941.147	ug/l		99
59) 2-Hexanone	11.200	43	1735777	805.662	ug/l		99
60) Dibromochloromethane	11.365	129	322064	147.832	ug/l		98
61) 1,2-Dibromoethane	11.470	107	314606	146.790	ug/l		99
64) Tetrachloroethene	11.106	164	245122	139.048	ug/l		97
65) Chlorobenzene	11.894	112	860345	140.041	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	282739	143.171	ug/l		99
67) Ethyl Benzene	11.964	91	1517883	143.438	ug/l		98
68) m/p-Xylenes	12.070	106	1175378	290.155	ug/l		99
69) o-Xylene	12.400	106	566301	145.966	ug/l		100
70) Styrene	12.411	104	972318	146.459	ug/l		100
71) Bromoform	12.582	173	223200	152.538	ug/l	#	99
73) Isopropylbenzene	12.694	105	1453651	146.042	ug/l		100
74) N-amyl acetate	12.500	43	543747	164.596	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.941	83	474426	140.693	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	468041m	143.665	ug/l		
77) Bromobenzene	12.982	156	335734	147.077	ug/l		98
78) n-propylbenzene	13.035	91	1769694	146.301	ug/l		99
79) 2-Chlorotoluene	13.123	91	1046916	144.317	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	1210325	147.279	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	216253	153.277	ug/l		95
82) 4-Chlorotoluene	13.223	91	1063581	144.900	ug/l		100
83) tert-Butylbenzene	13.435	119	1093406	145.352	ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	1216529	147.626	ug/l		100
85) sec-Butylbenzene	13.617	105	1582762	144.885	ug/l		99
86) p-Isopropyltoluene	13.729	119	1322780	146.482	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	641966	142.939	ug/l		100
88) 1,4-Dichlorobenzene	13.811	146	646188	141.124	ug/l		99
89) n-Butylbenzene	14.053	91	1251819	143.117	ug/l		100
90) Hexachloroethane	14.335	117	230195	150.387	ug/l		98
91) 1,2-Dichlorobenzene	14.105	146	613177	142.108	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	110677	137.242	ug/l		96
93) 1,2,4-Trichlorobenzene	15.394	180	407621	147.940	ug/l		99
94) Hexachlorobutadiene	15.500	225	151172	147.264	ug/l		98
95) Naphthalene	15.641	128	1545981	150.743	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	404450	147.743	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086867.D
Acq On : 06 Jun 2025 14:49
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

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

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

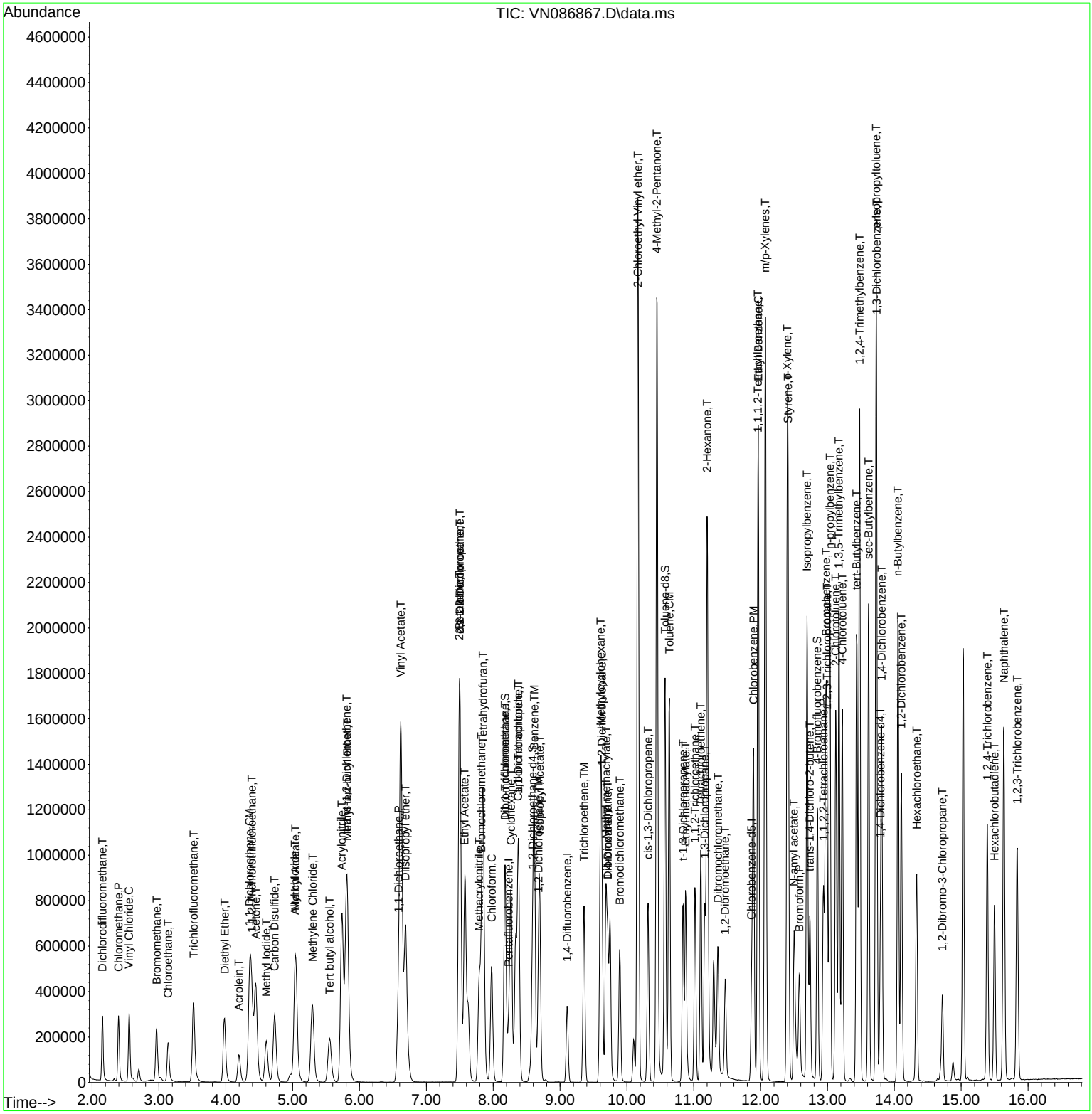
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086867.D
Acq On : 06 Jun 2025 14:49
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

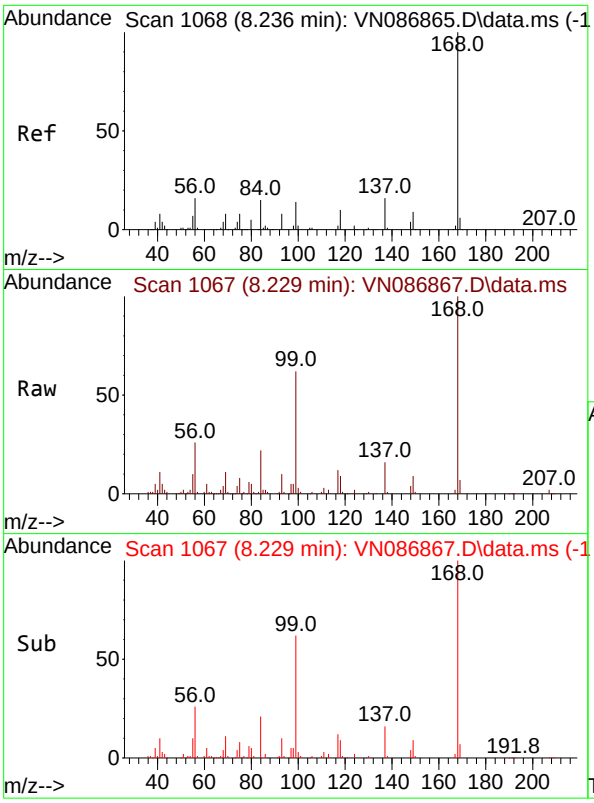
Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

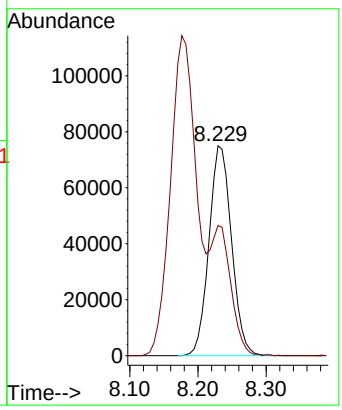




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:168 Resp: 17283

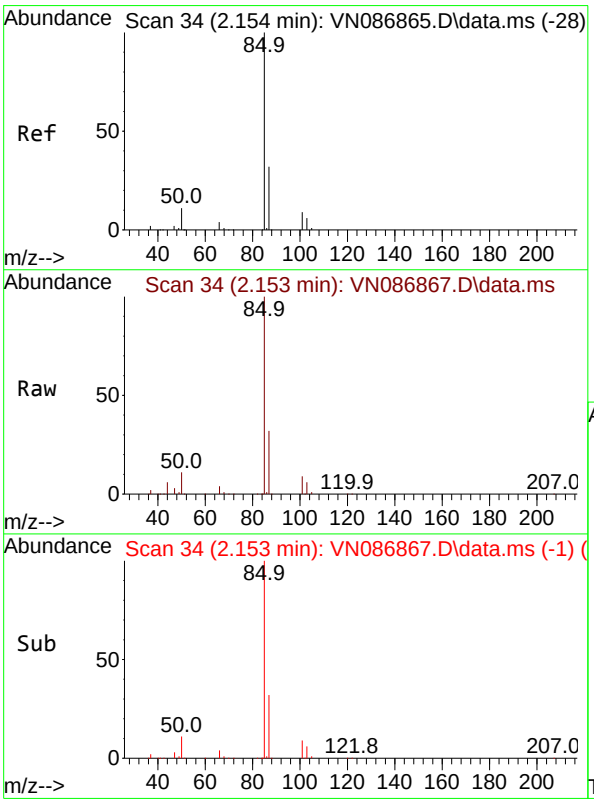
Ion	Ratio	Lower	Upper
168	100		
99	61.8	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

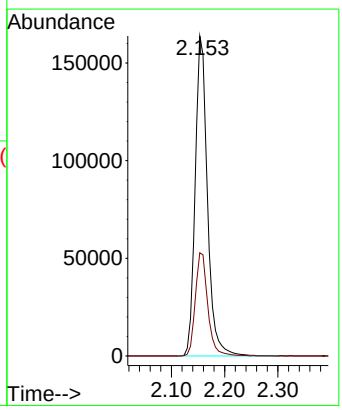
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

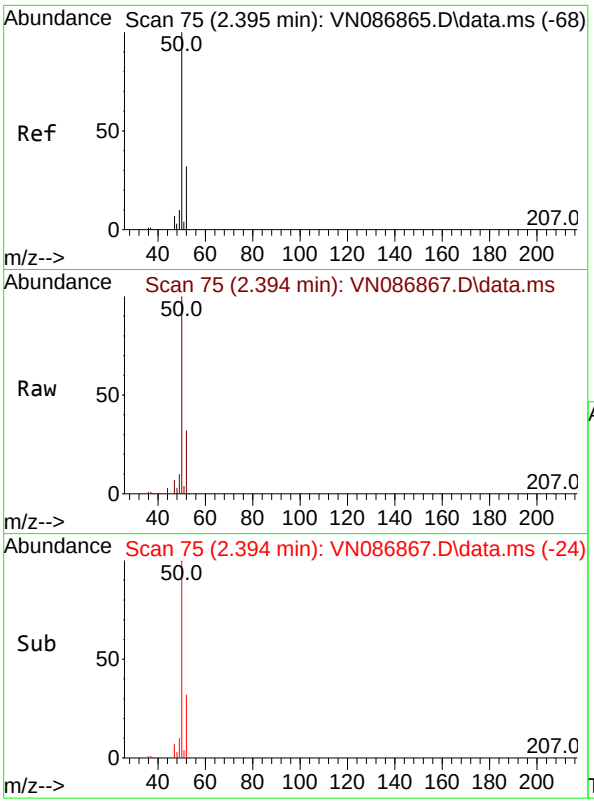


#2
Dichlorodifluoromethane
Concen: 152.122 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 85 Resp: 262143

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.2	48.6

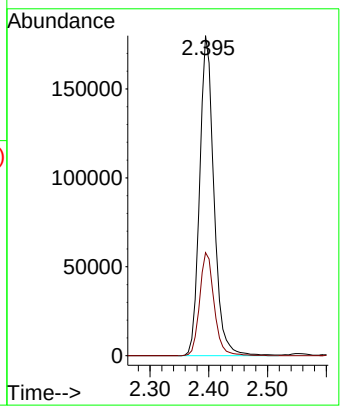




#3
Chloromethane
Concen: 136.865 ug/l
RT: 2.394 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 50 Resp: 30455

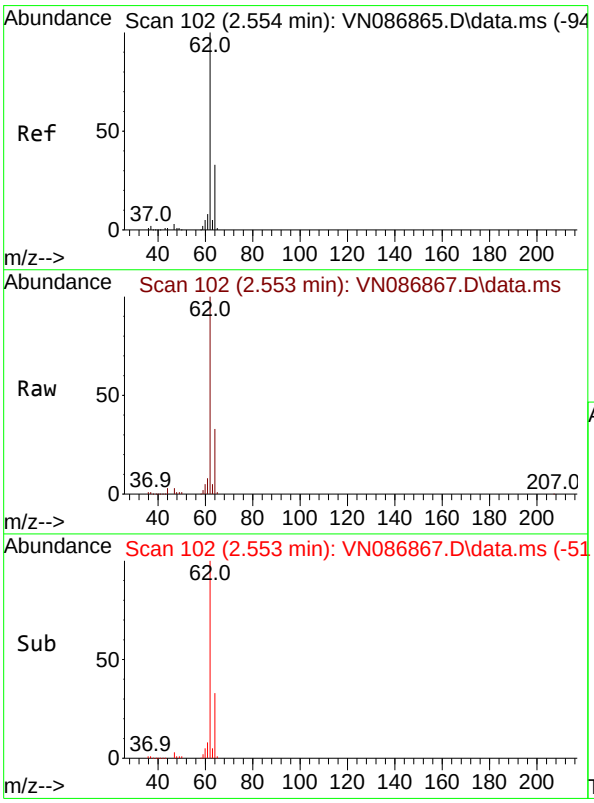
Ion	Ratio	Lower	Upper
50	100		
52	32.2	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

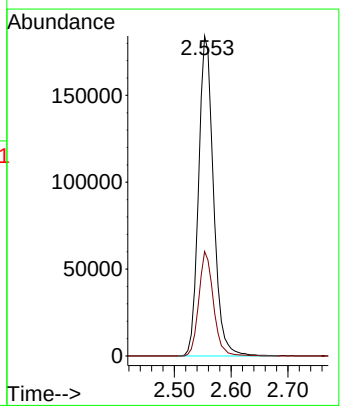
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

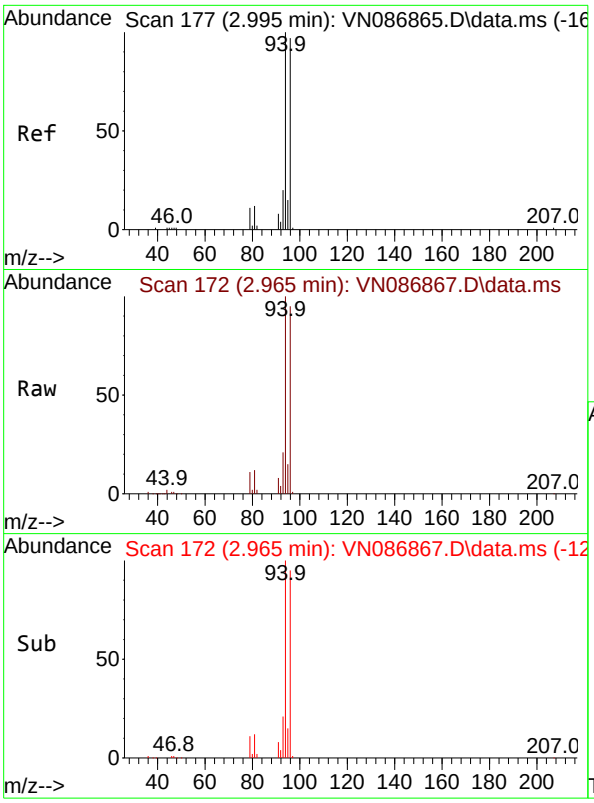


#4
Vinyl Chloride
Concen: 146.303 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 62 Resp: 335834

Ion	Ratio	Lower	Upper
62	100		
64	32.6	26.0	39.0

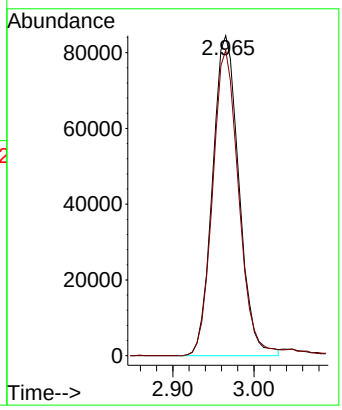




#5
Bromomethane
Concen: 148.522 ug/l
RT: 2.965 min Scan# 1
Delta R.T. -0.030 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 94 Resp: 19078

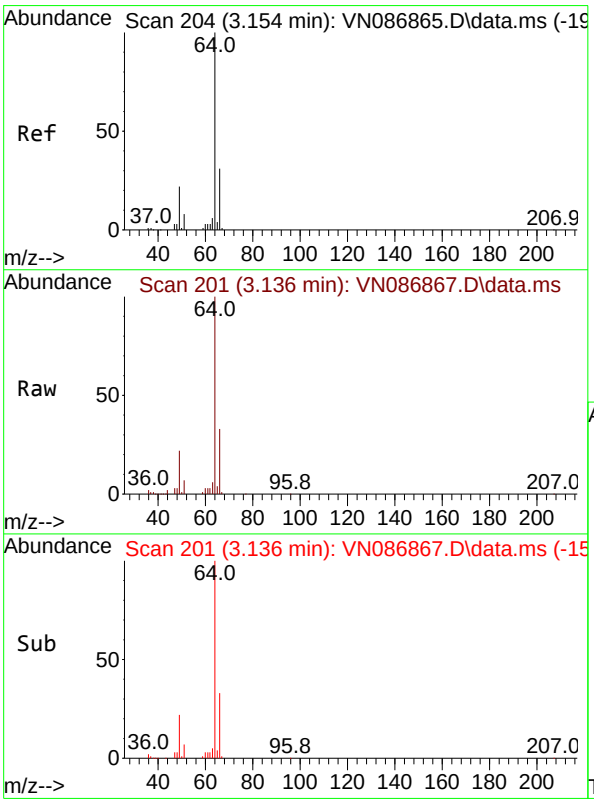
Ion	Ratio	Lower	Upper
94	100		
96	95.5	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

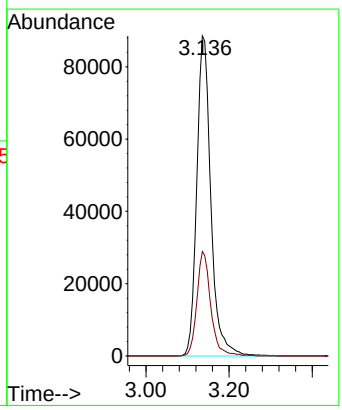
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

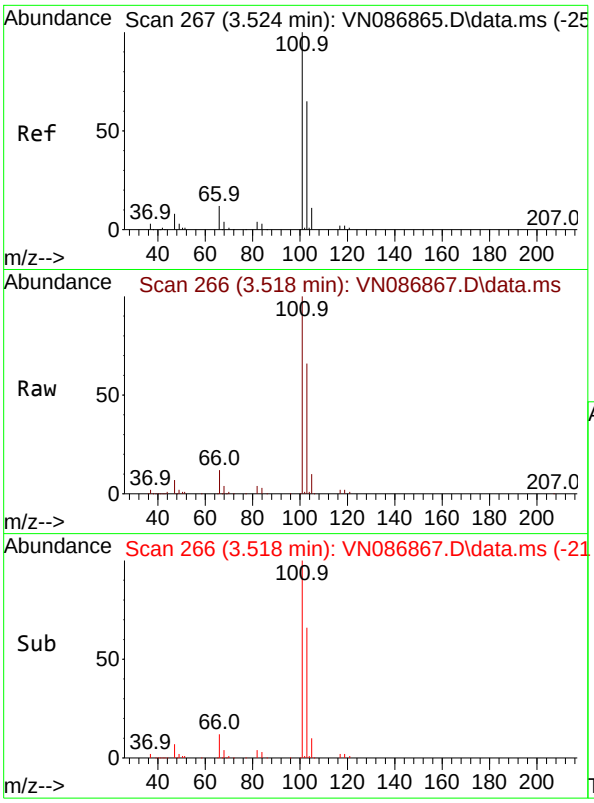


#6
Chloroethane
Concen: 140.664 ug/l
RT: 3.136 min Scan# 201
Delta R.T. -0.018 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 64 Resp: 208568

Ion	Ratio	Lower	Upper
64	100		
66	32.7	24.6	36.8

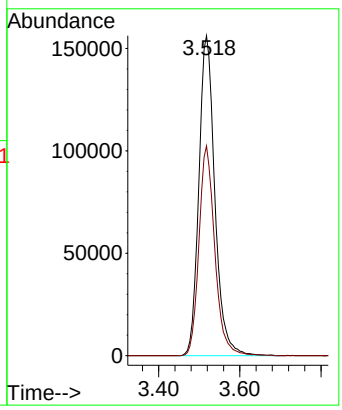




#7
Trichlorofluoromethane
Concen: 142.666 ug/l
RT: 3.518 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:101 Resp: 42787

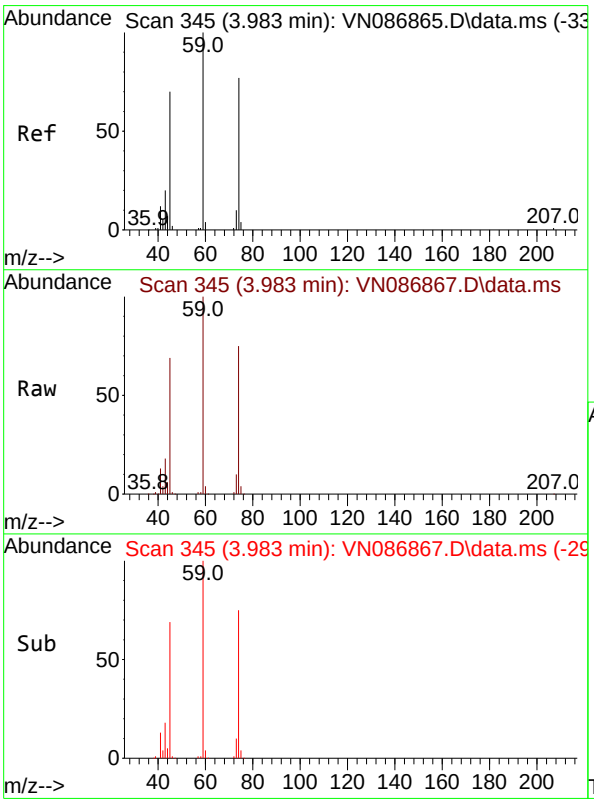
Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.2	78.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

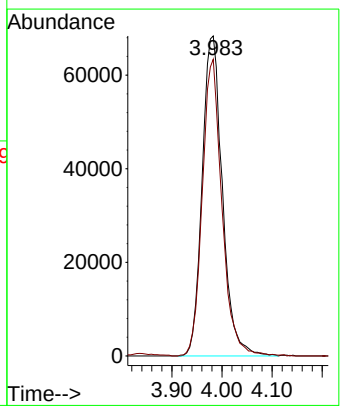
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

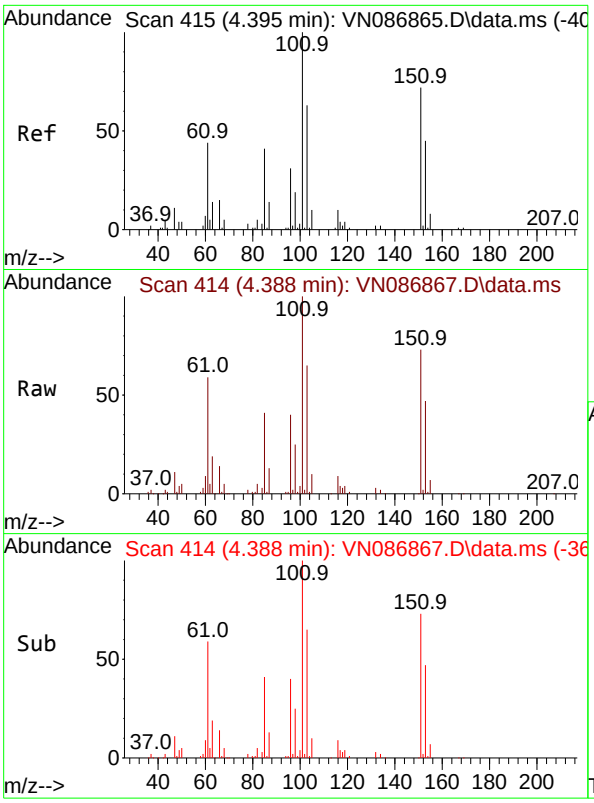


#8
Diethyl Ether
Concen: 146.593 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 74 Resp: 191555

Ion	Ratio	Lower	Upper
74	100		
45	90.3	45.5	136.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 143.192 ug/l
RT: 4.388 min Scan# 4
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

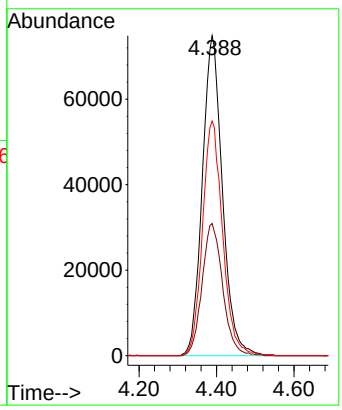
Tgt Ion:101 Resp: 26981

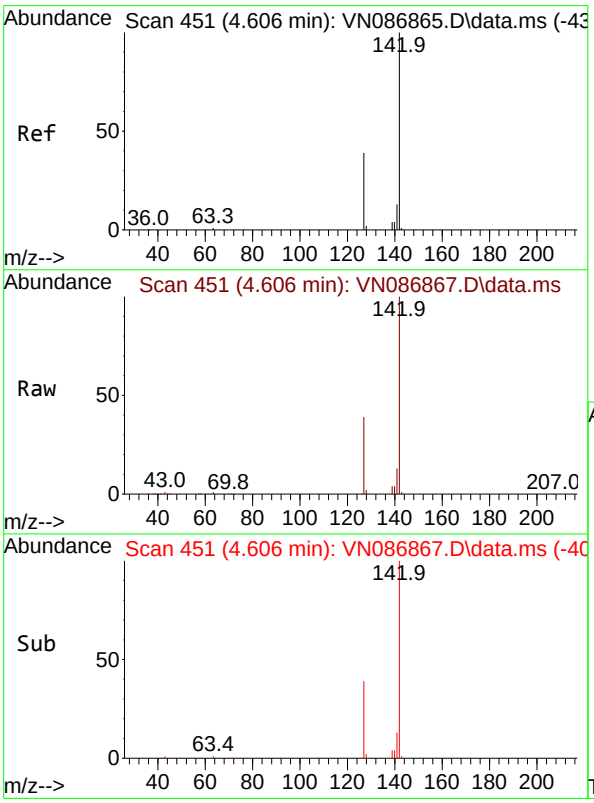
Ion	Ratio	Lower	Upper
101	100		
85	42.3	33.8	50.8
151	73.5	58.7	88.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

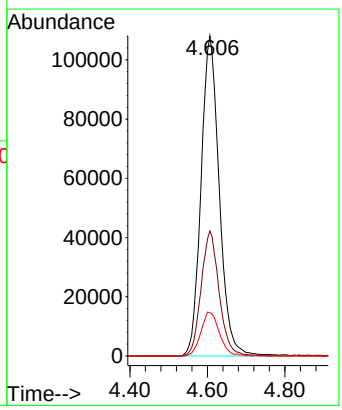


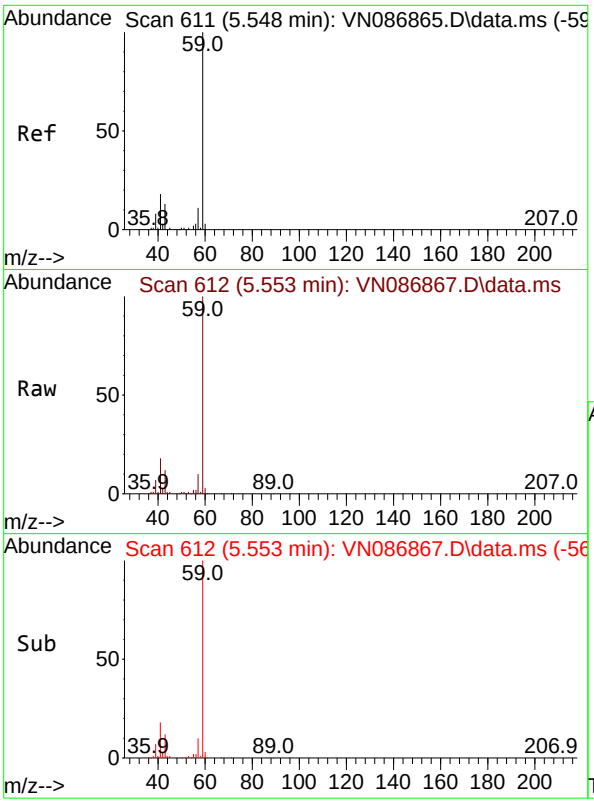


#10
Methyl Iodide
Concen: 144.118 ug/l
RT: 4.606 min Scan# 451
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:142 Resp: 352020

Ion	Ratio	Lower	Upper
142	100		
127	39.1	30.9	46.3
141	13.5	10.4	15.6

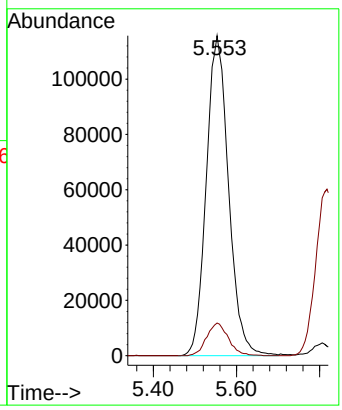




#11
Tert butyl alcohol
Concen: 686.213 ug/l
RT: 5.553 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 59 Resp: 43086

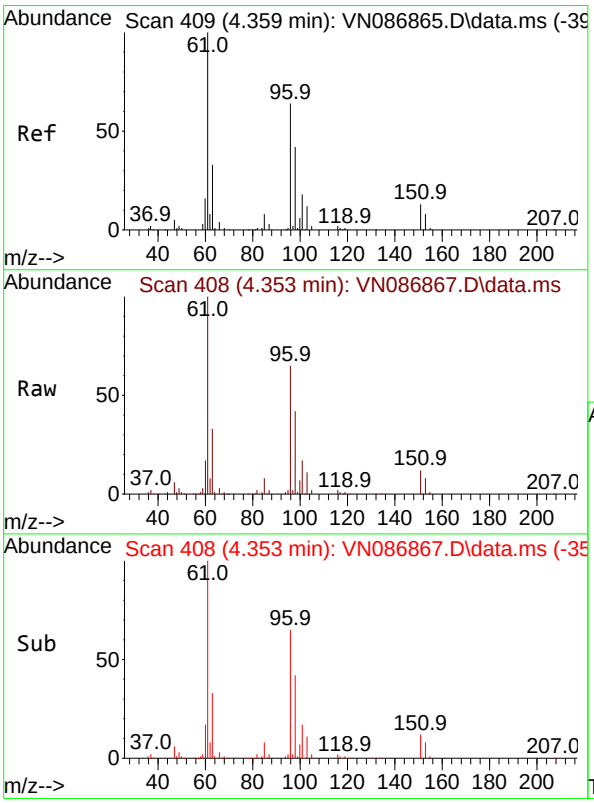
Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

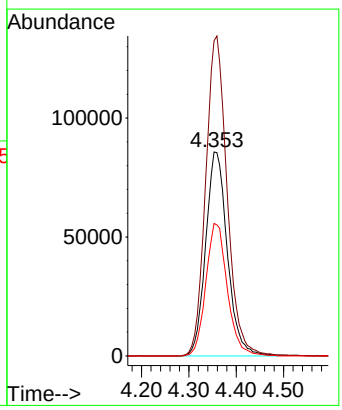
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

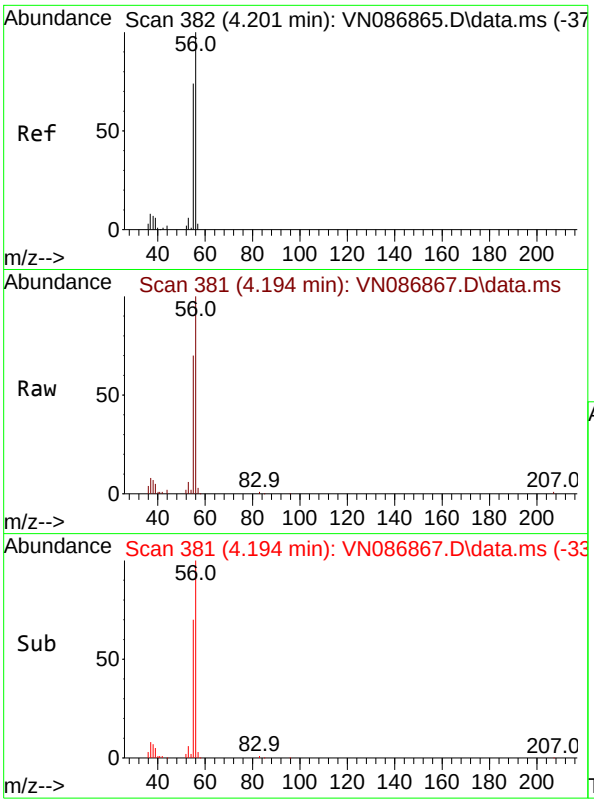


#12
1,1-Dichloroethene
Concen: 142.118 ug/l
RT: 4.353 min Scan# 408
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 96 Resp: 273388

Ion	Ratio	Lower	Upper
96	100		
61	154.5	125.8	188.6
98	64.9	52.5	78.7

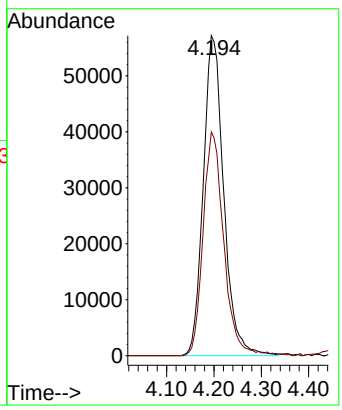




#13
Acrolein
Concen: 863.526 ug/l
RT: 4.194 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 56 Resp: 17162

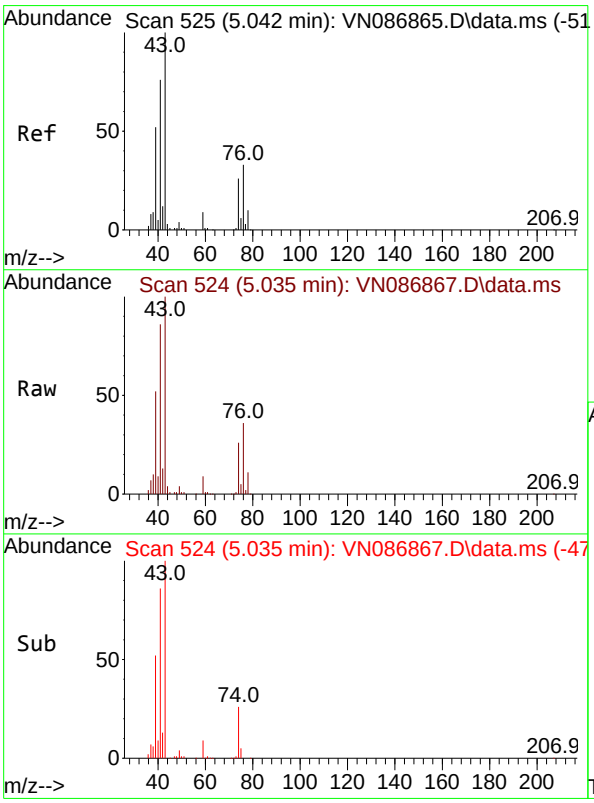
Ion	Ratio	Lower	Upper
56	100		
55	70.4	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

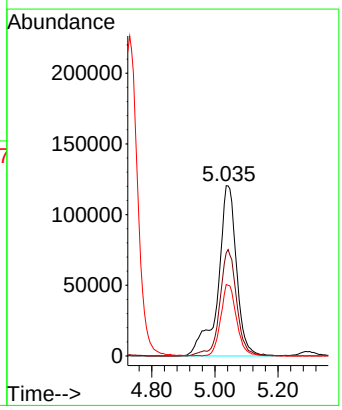
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

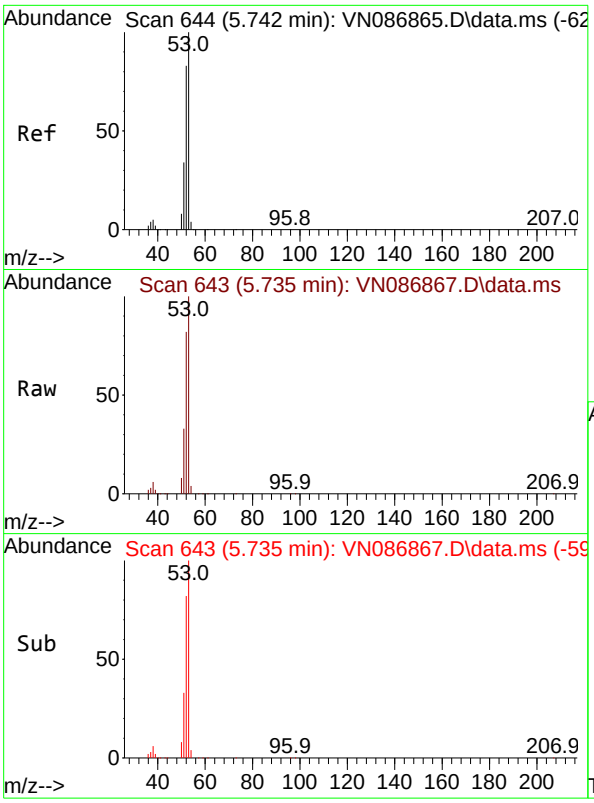


#14
Allyl chloride
Concen: 153.858 ug/l
RT: 5.035 min Scan# 524
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 41 Resp: 490852

Ion	Ratio	Lower	Upper
41	100		
39	56.4	51.3	76.9
76	35.7	31.4	47.0





#15
Acrylonitrile
Concen: 714.344 ug/l
RT: 5.735 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

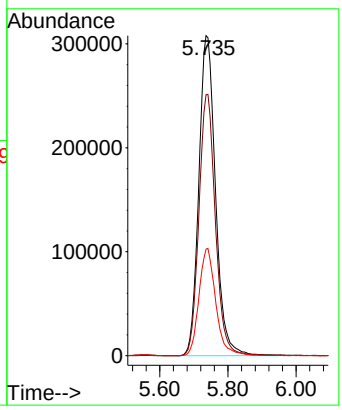
Tgt Ion: 53 Resp: 104837

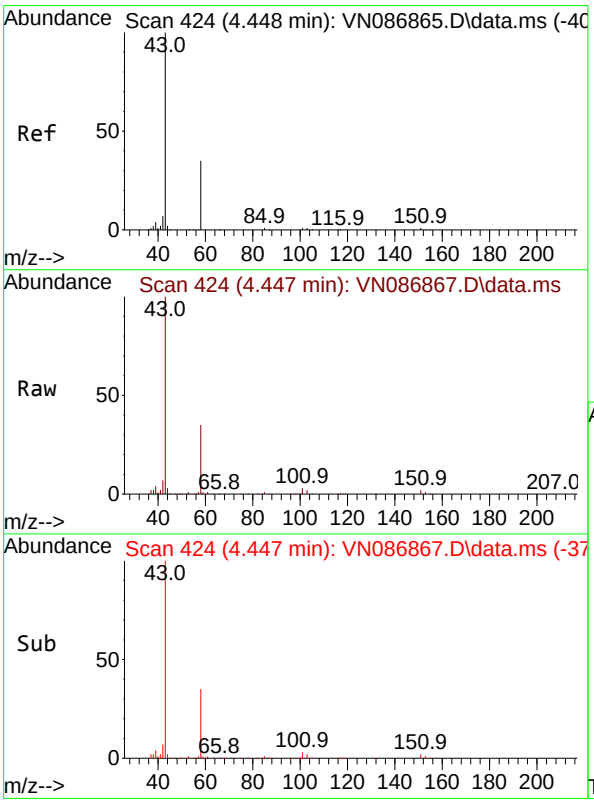
Ion	Ratio	Lower	Upper
53	100		
52	80.7	65.0	97.6
51	33.8	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

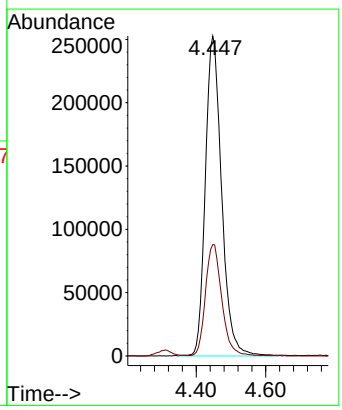


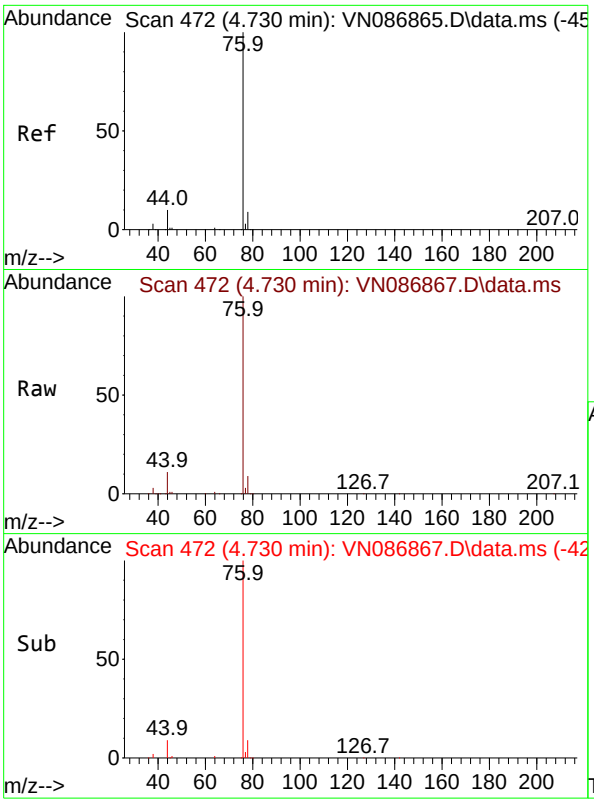


#16
Acetone
Concen: 667.435 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 43 Resp: 819041

Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.0	42.0

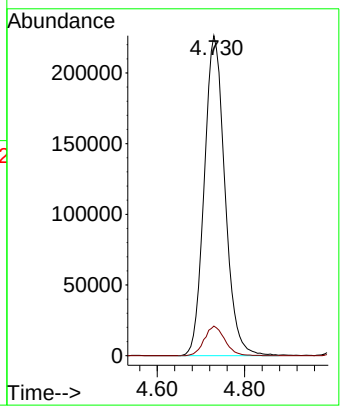




#17
Carbon Disulfide
Concen: 139.594 ug/l
RT: 4.730 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 76 Resp: 74278

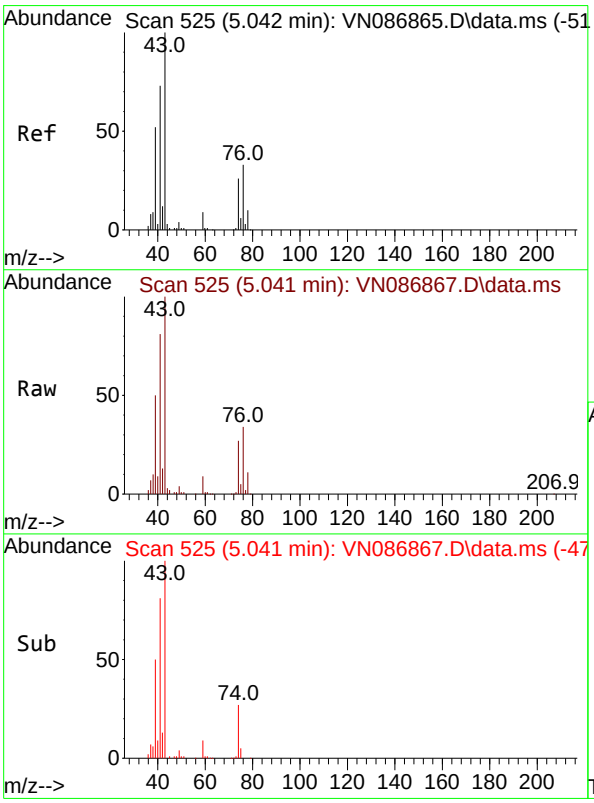
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

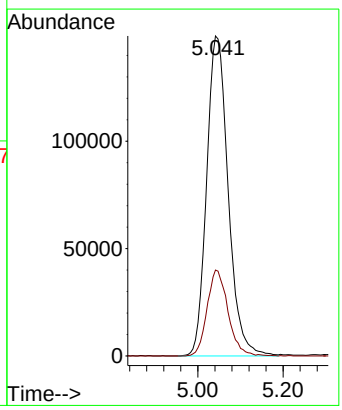
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

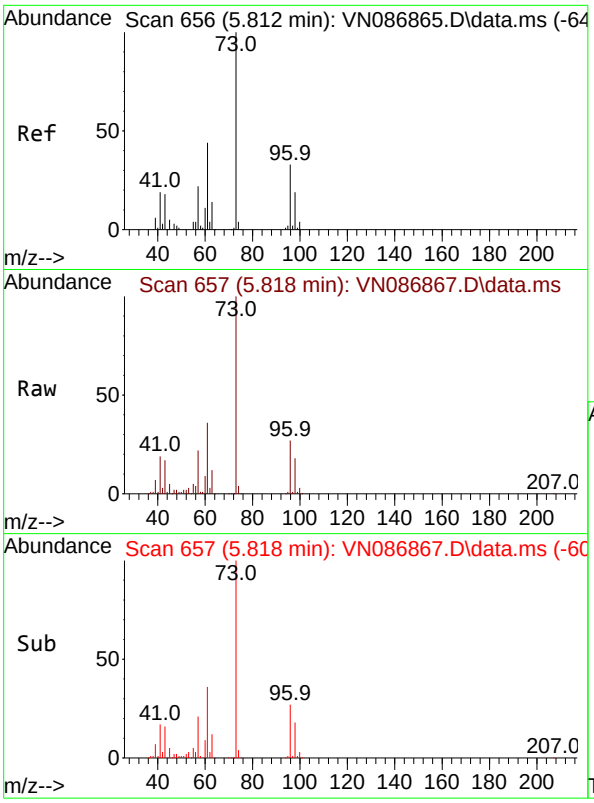


#18
Methyl Acetate
Concen: 146.527 ug/l
RT: 5.041 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 43 Resp: 523996

Ion	Ratio	Lower	Upper
43	100		
74	26.1	20.7	31.1

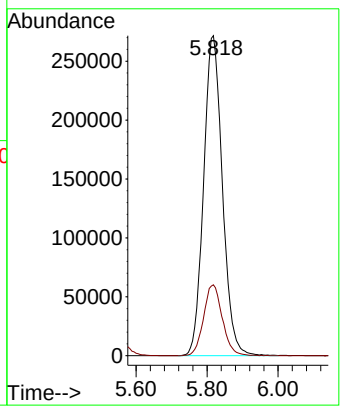




#19
Methyl tert-butyl Ether
Concen: 143.396 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 73 Resp: 99878

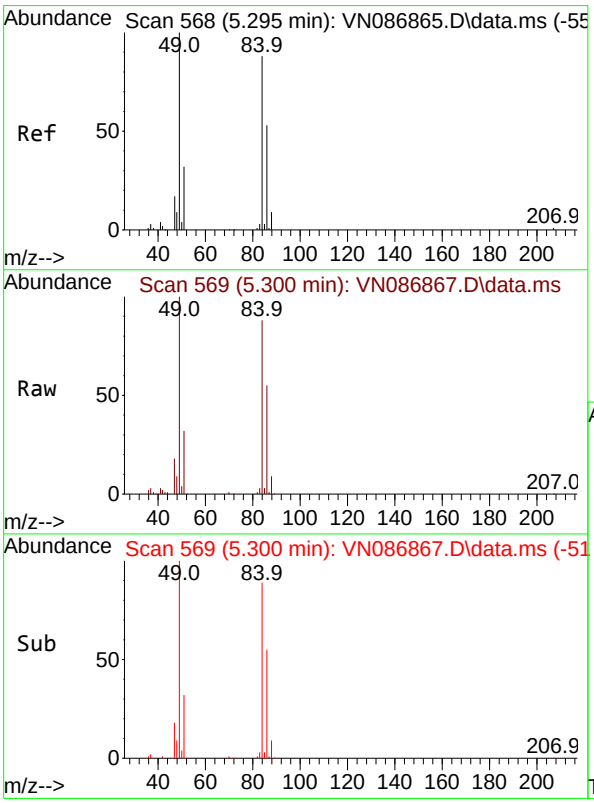
Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

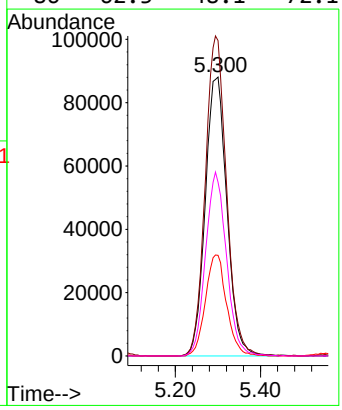
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

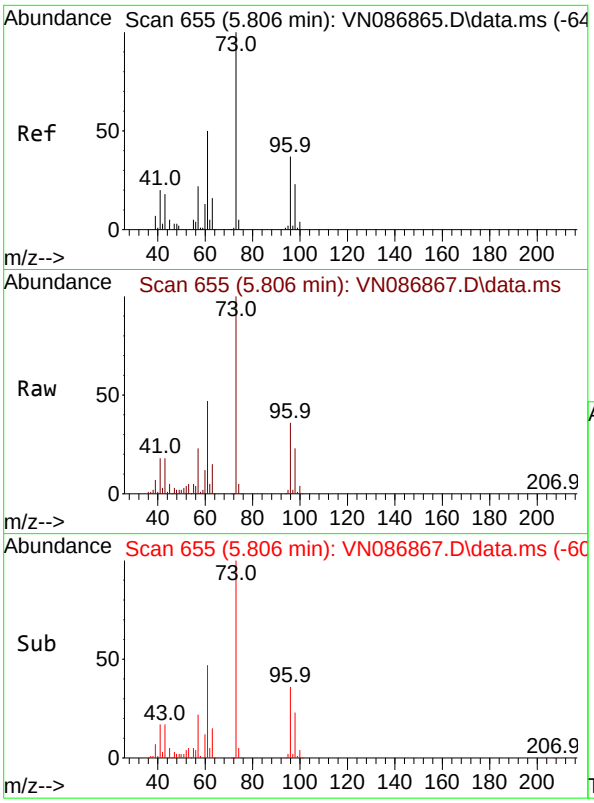


#20
Methylene Chloride
Concen: 135.628 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 84 Resp: 311597

Ion	Ratio	Lower	Upper
84	100		
49	113.0	90.5	135.7
51	36.1	28.5	42.7
86	62.3	48.1	72.1

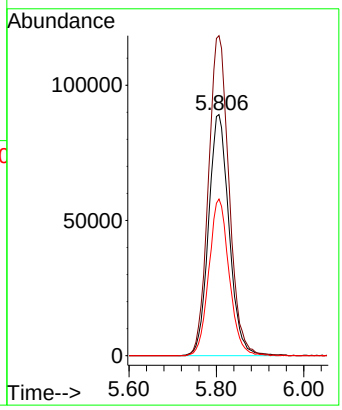




#21
trans-1,2-Dichloroethene
Concen: 135.947 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 96 Resp: 29096

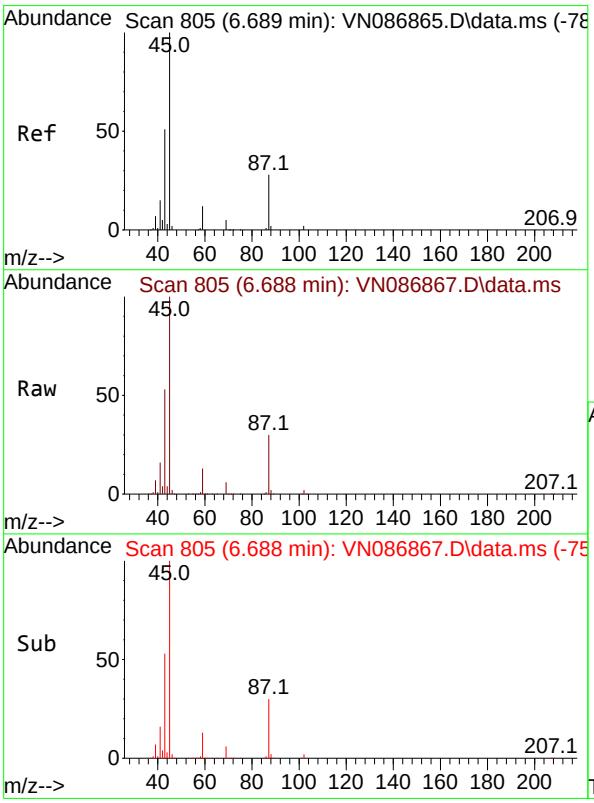
Ion	Ratio	Lower	Upper
96	100		
61	132.7	109.2	163.8
98	65.0	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

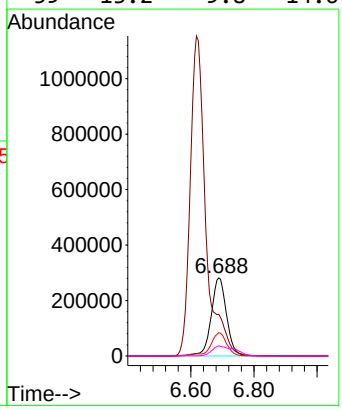
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

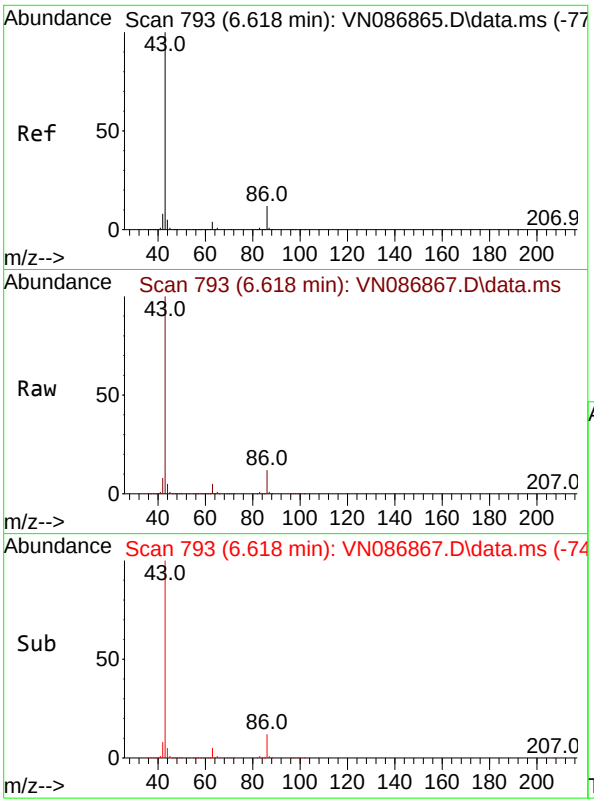


#22
Diisopropyl ether
Concen: 140.915 ug/l
RT: 6.688 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 45 Resp: 947638

Ion	Ratio	Lower	Upper
45	100		
43	53.1	41.9	62.9
87	29.9	22.4	33.6
59	13.2	9.8	14.6





#23
Vinyl Acetate
Concen: 692.189 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

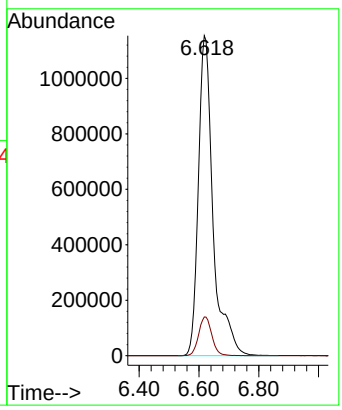
Tgt Ion: 43 Resp: 393287

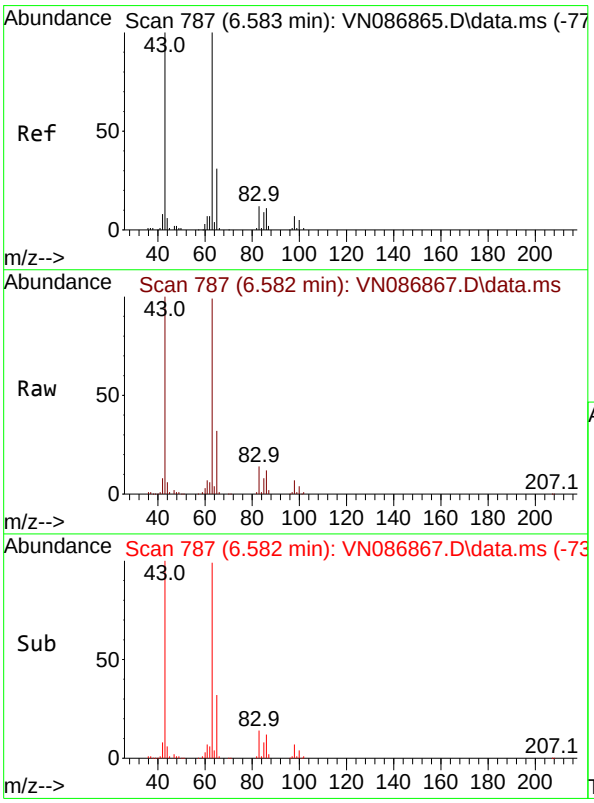
Ion	Ratio	Lower	Upper
43	100		
86	12.1	9.5	14.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

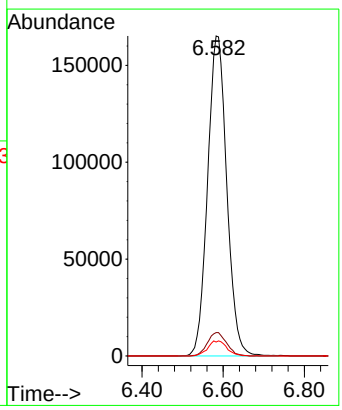


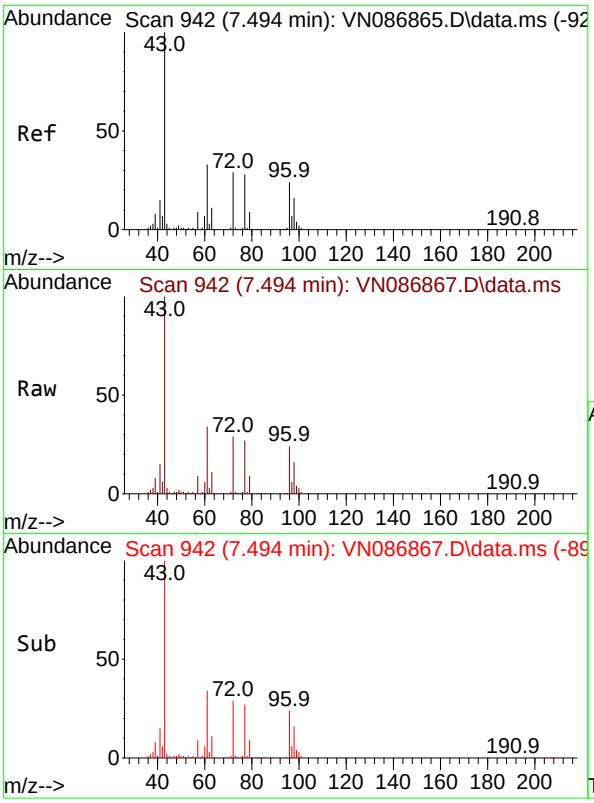


#24
1,1-Dichloroethane
Concen: 139.761 ug/l
RT: 6.582 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 63 Resp: 540881

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.6	10.8
100	4.4	2.6	7.8





#25
2-Butanone
Concen: 692.809 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

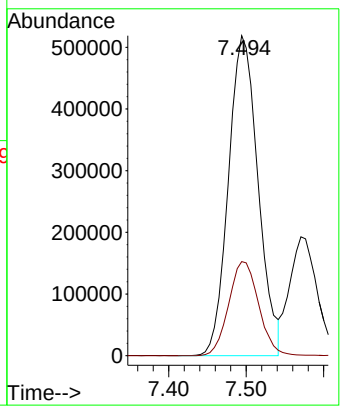
Tgt Ion: 43 Resp: 138194

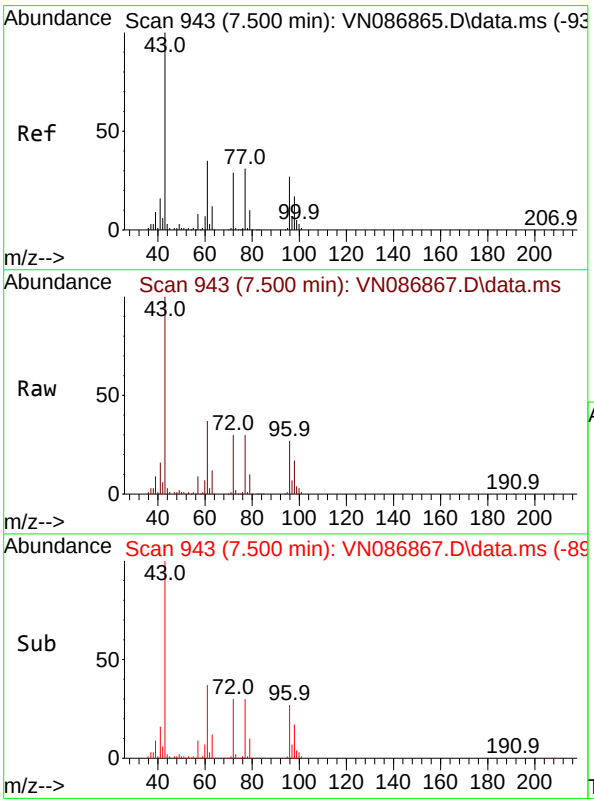
Ion	Ratio	Lower	Upper
43	100		
72	29.4	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

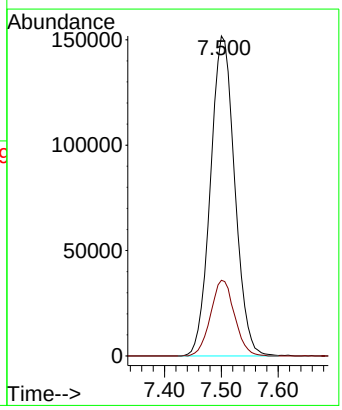


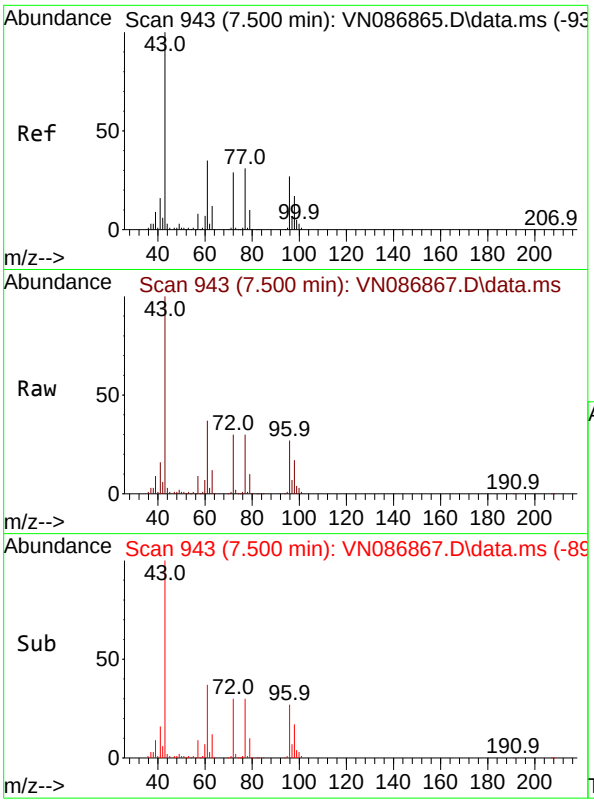


#26
2,2-Dichloropropane
Concen: 149.519 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 77 Resp: 450112

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.7

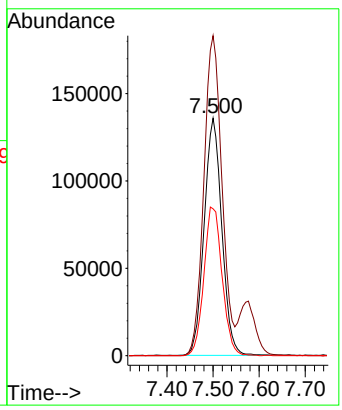




#27
cis-1,2-Dichloroethene
Concen: 141.974 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 96 Resp: 36339

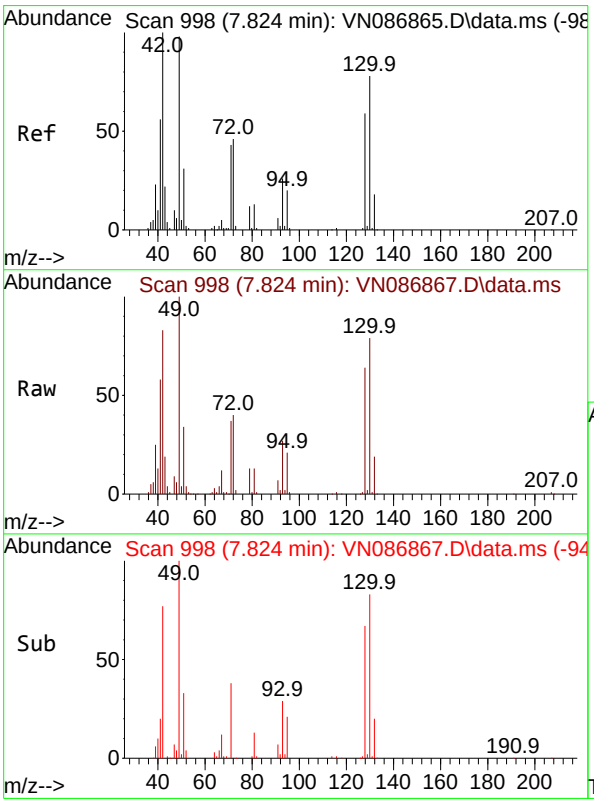
Ion	Ratio	Lower	Upper
96	100		
61	138.0	0.0	278.0
98	64.5	0.0	128.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

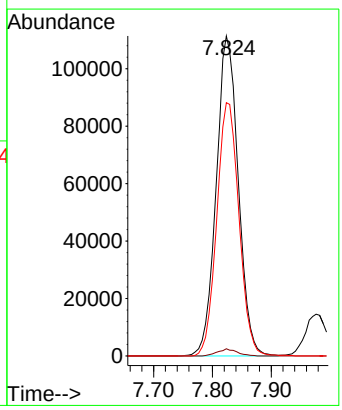
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

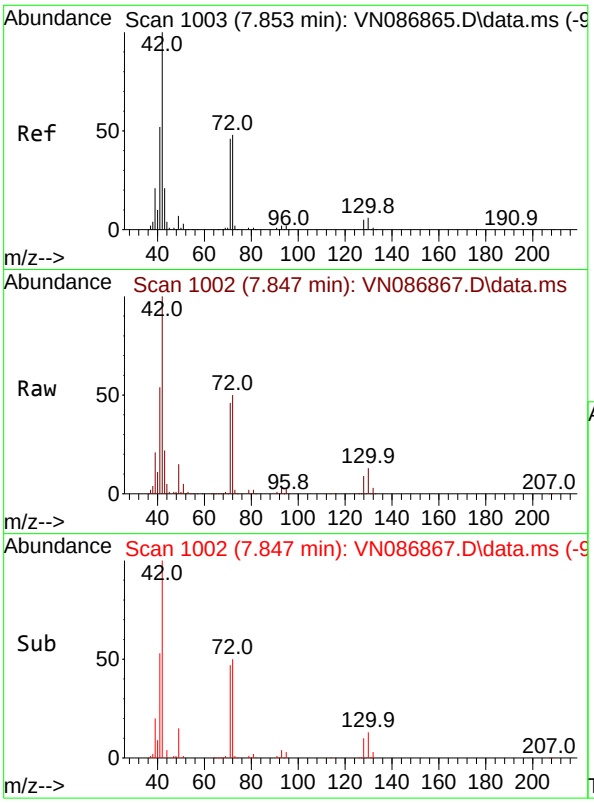


#28
Bromochloromethane
Concen: 152.718 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 49 Resp: 290594

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	79.8	62.2	93.2





#29
Tetrahydrofuran
Concen: 691.211 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

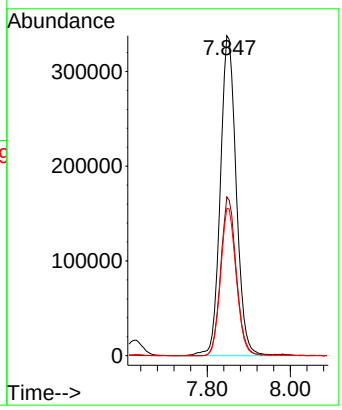
Tgt Ion: 42 Resp: 89815

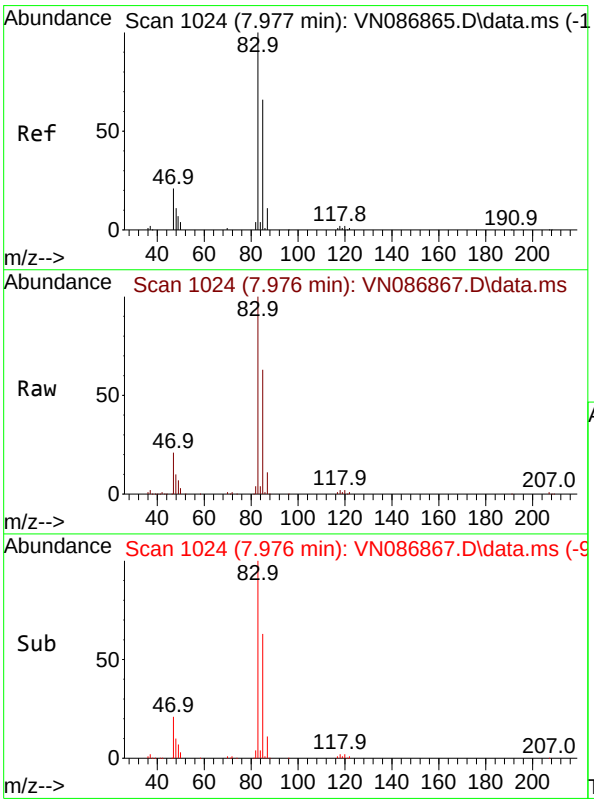
Ion	Ratio	Lower	Upper
42	100		
72	48.5	37.8	56.6
71	45.4	35.6	53.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

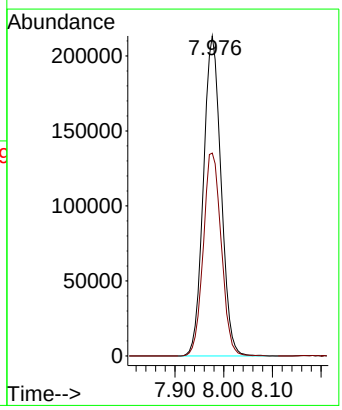


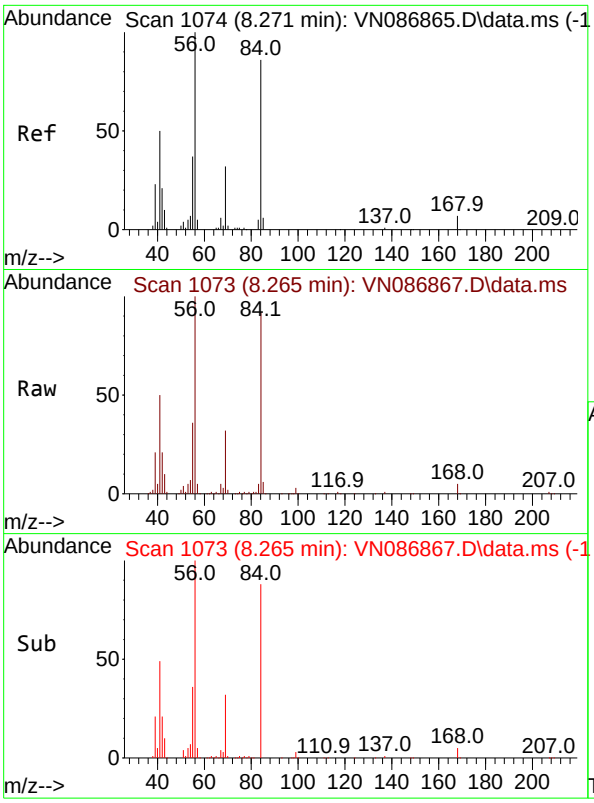


#30
Chloroform
Concen: 138.179 ug/l
RT: 7.976 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 83 Resp: 534038

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.9	79.3

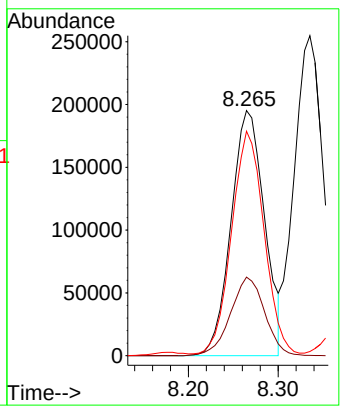




#31
Cyclohexane
Concen: 134.766 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 56 Resp: 50579

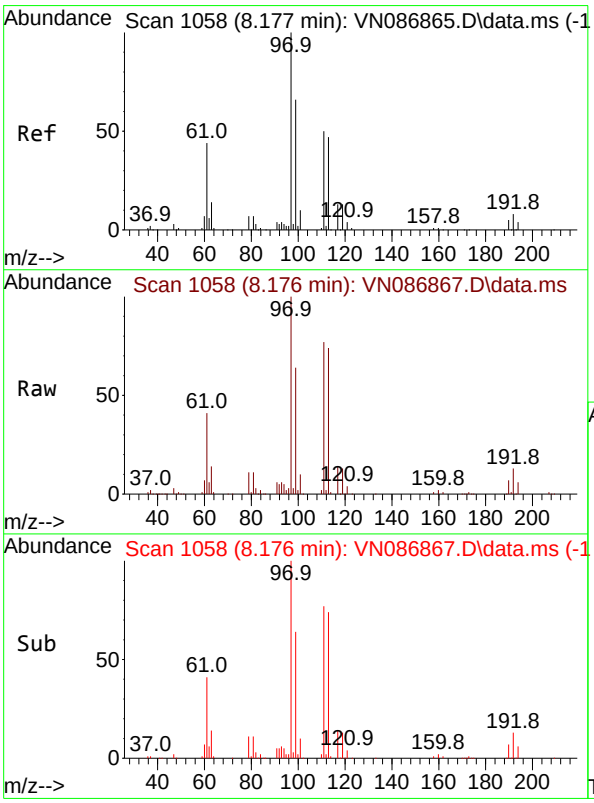
Ion	Ratio	Lower	Upper
56	100		
69	32.0	25.4	38.0
84	90.6	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

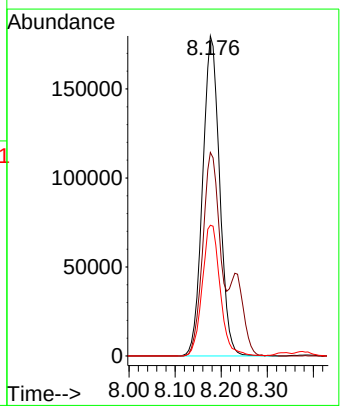
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

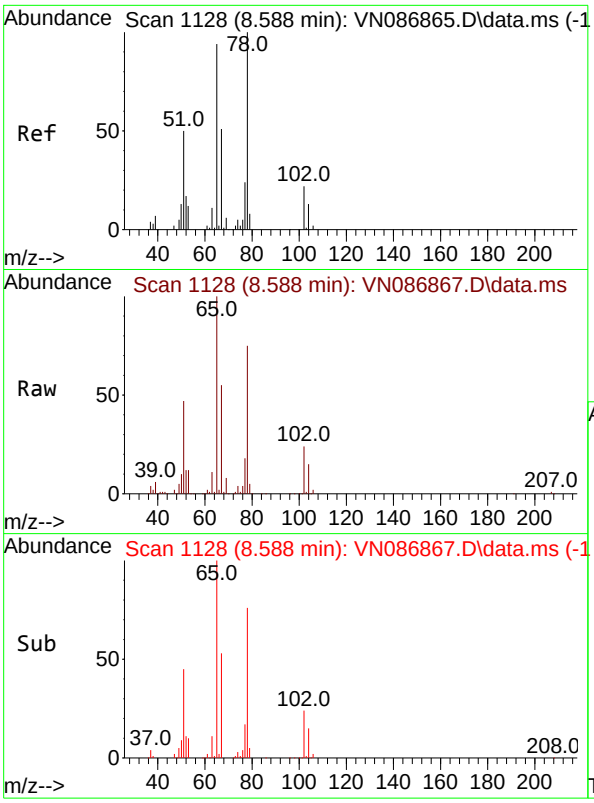


#32
1,1,1-Trichloroethane
Concen: 140.807 ug/l
RT: 8.176 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 97 Resp: 462854

Ion	Ratio	Lower	Upper
97	100		
99	64.9	52.0	78.0
61	43.2	35.9	53.9





#33
1,2-Dichloroethane-d4
Concen: 168.233 ug/l
RT: 8.588 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

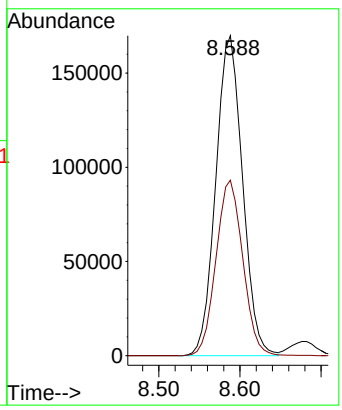
Tgt Ion: 65 Resp: 38929

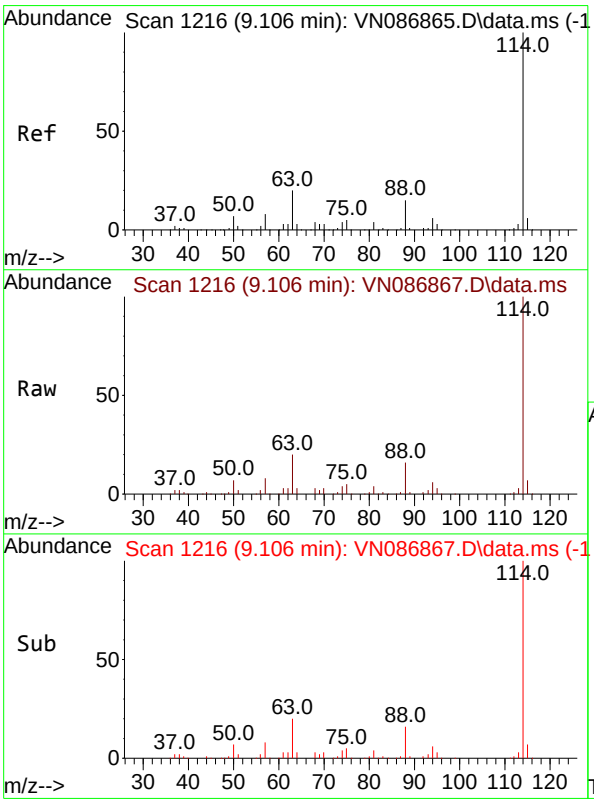
Ion	Ratio	Lower	Upper
65	100		
67	54.9	0.0	105.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

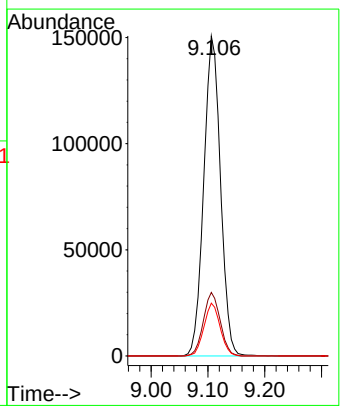


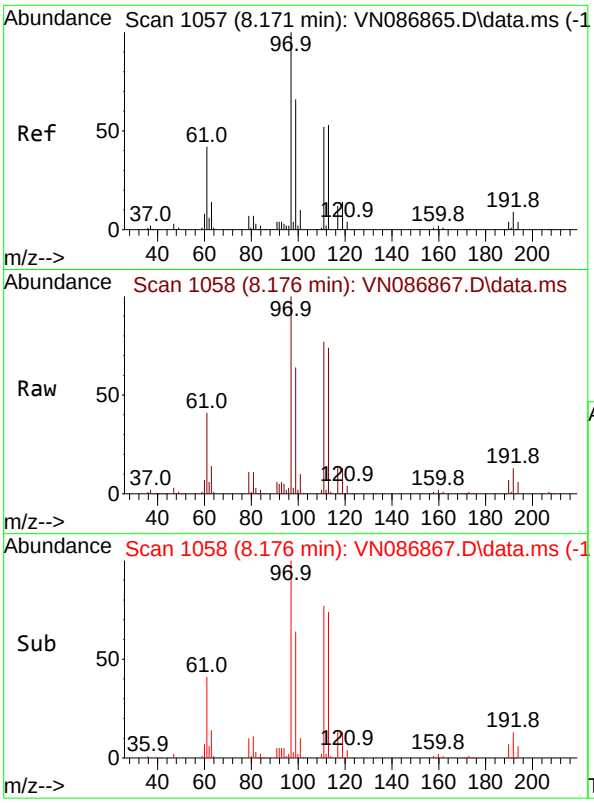


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:114 Resp: 307937

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.6
88	16.5	0.0	30.2

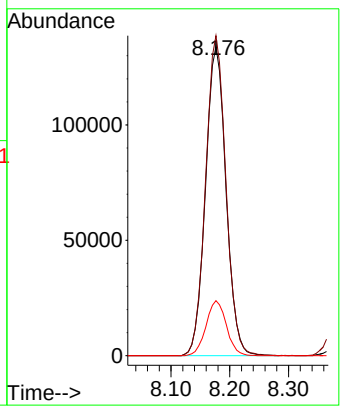




#35
Dibromofluoromethane
Concen: 177.803 ug/l
RT: 8.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:113 Resp: 32447

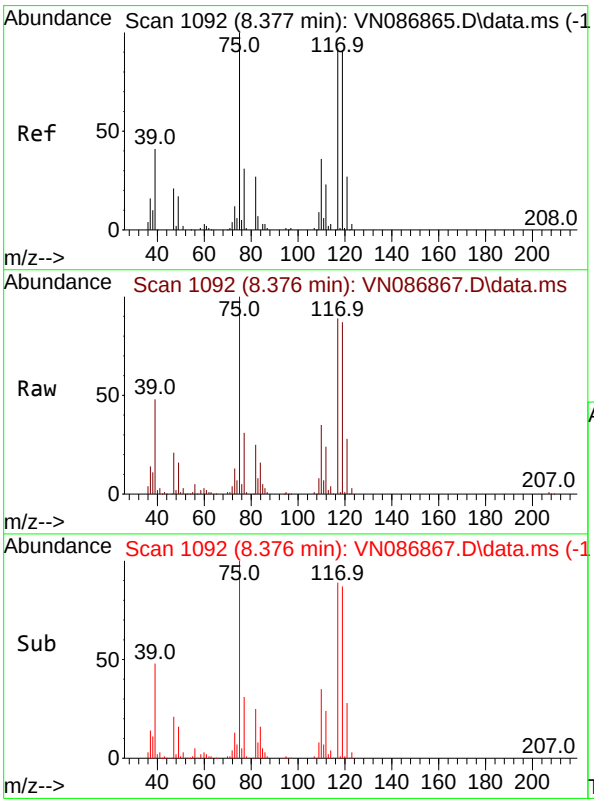
Ion	Ratio	Lower	Upper
113	100		
111	102.5	84.2	126.2
192	17.7	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

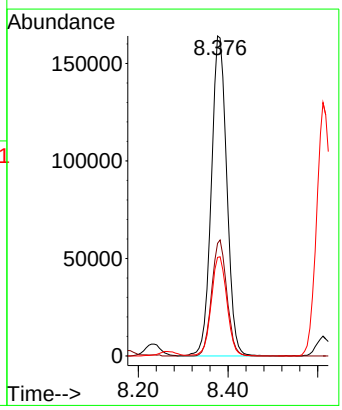
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

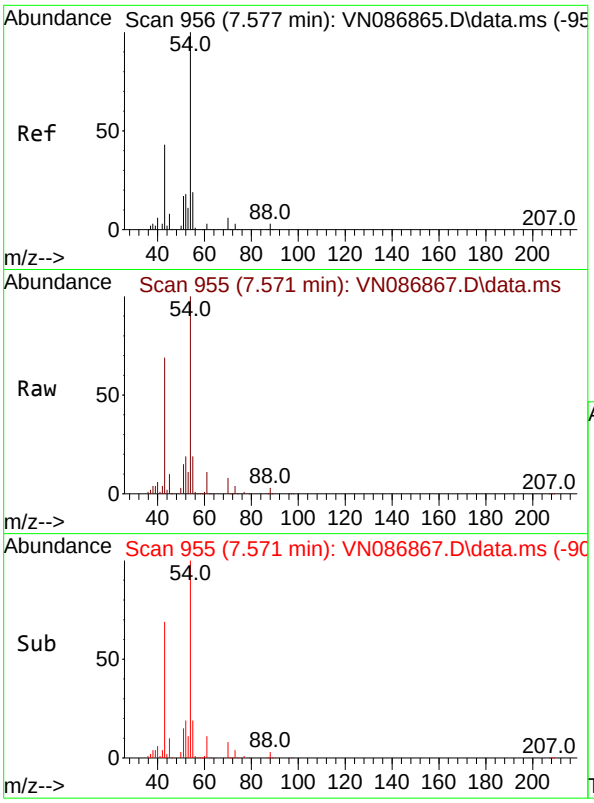


#36
1,1-Dichloropropene
Concen: 144.584 ug/l
RT: 8.376 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 75 Resp: 393166

Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.6	52.9
77	31.4	25.3	37.9

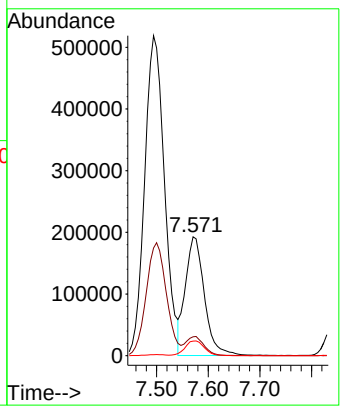




#37
Ethyl Acetate
Concen: 142.706 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 43 Resp: 49400

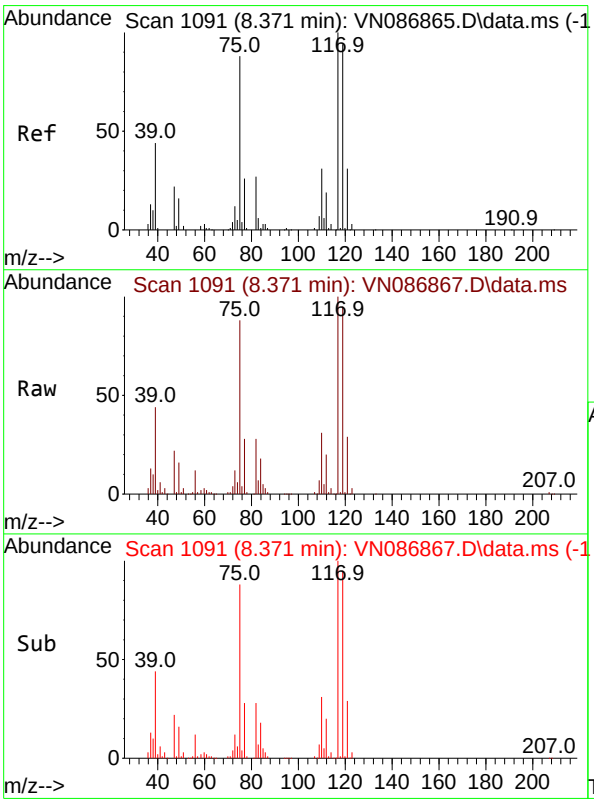
Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.1	18.1
70	12.7	9.8	14.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

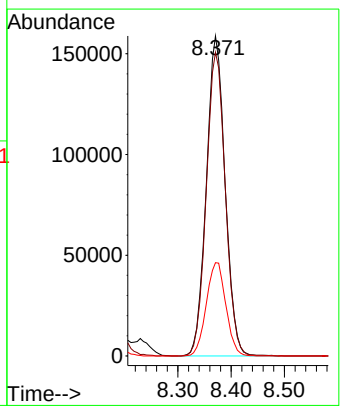
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

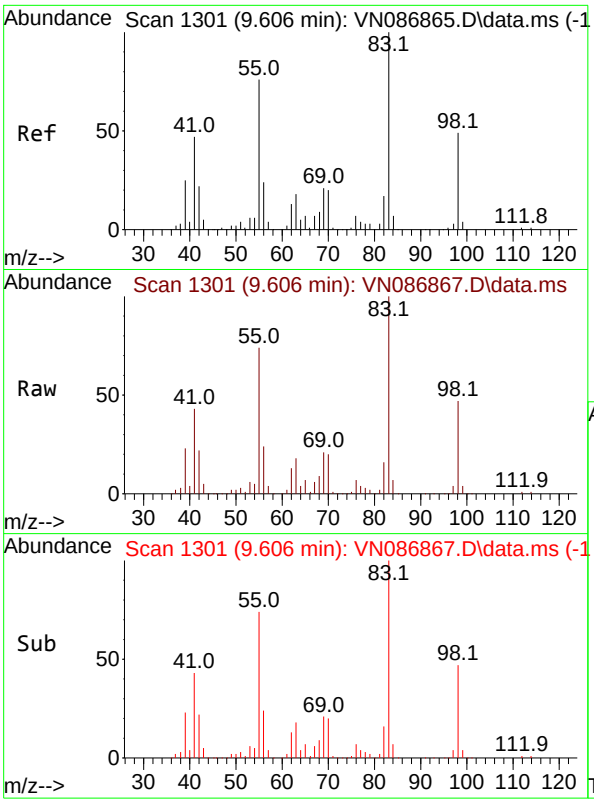


#38
Carbon Tetrachloride
Concen: 145.557 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:117 Resp: 388595

Ion	Ratio	Lower	Upper
117	100		
119	94.9	75.0	112.6
121	29.1	24.9	37.3

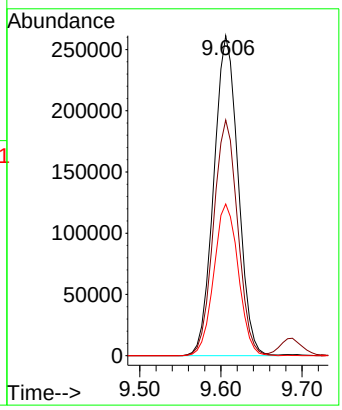




#39
Methylcyclohexane
Concen: 146.136 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 83 Resp: 54443

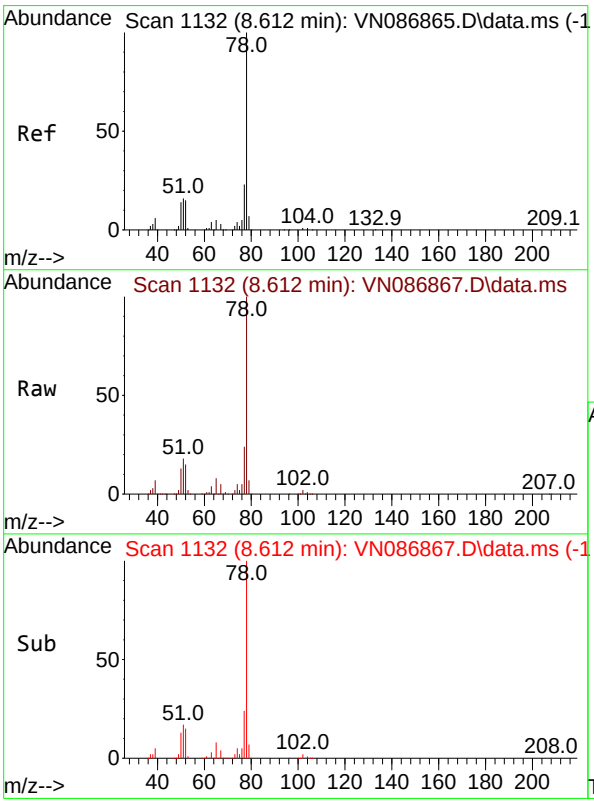
Ion	Ratio	Lower	Upper
83	100		
55	73.6	61.0	91.6
98	47.4	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

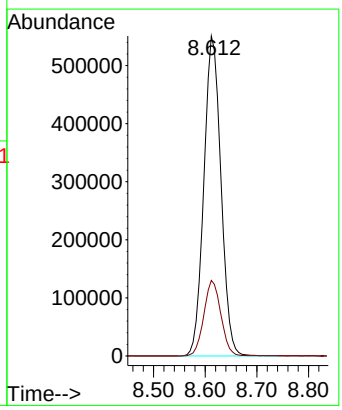
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

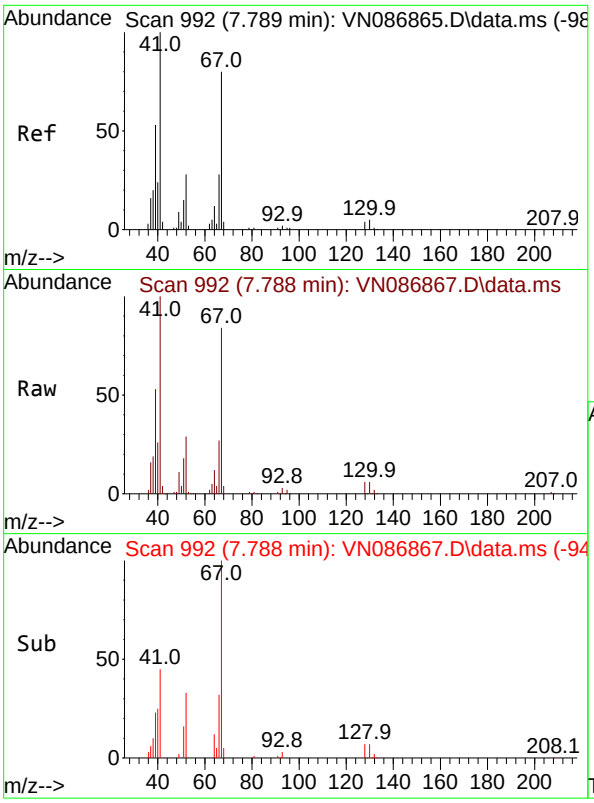


#40
Benzene
Concen: 142.388 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 78 Resp: 1266139

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.7	28.1

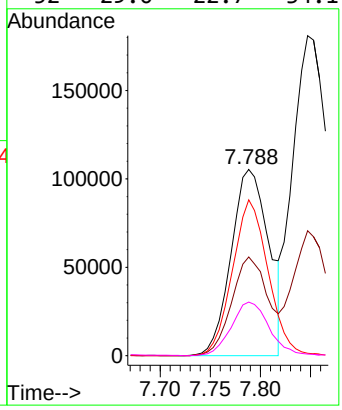




#41
Methacrylonitrile
Concen: 142.174 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 41 Resp: 27640

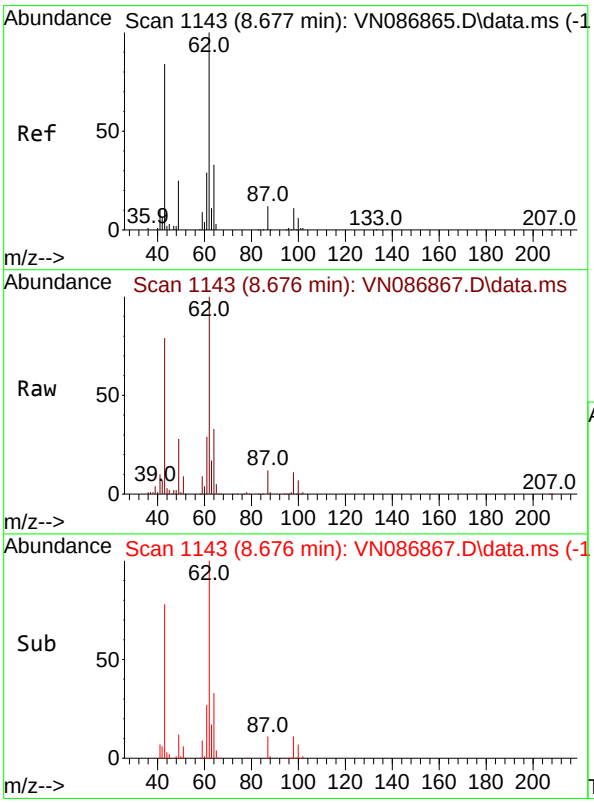
Ion	Ratio	Lower	Upper
41	100		
39	50.9	41.2	61.8
67	79.4	61.4	92.2
52	29.0	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

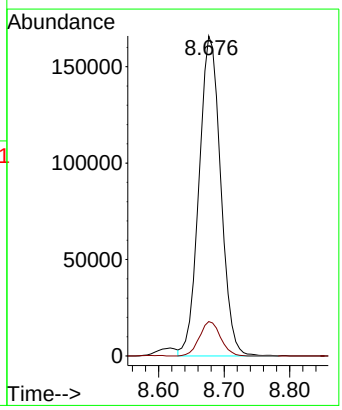
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

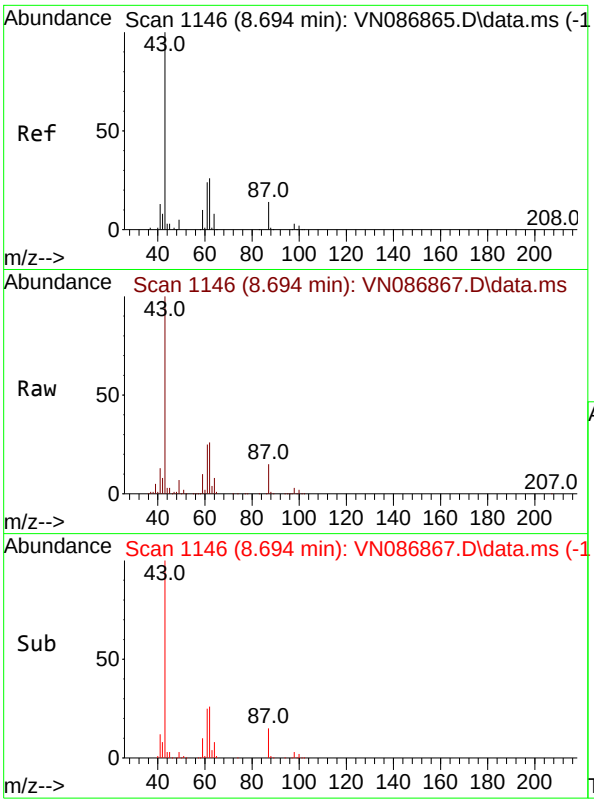


#42
1,2-Dichloroethane
Concen: 141.455 ug/l
RT: 8.676 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 62 Resp: 381516

Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	21.2





#43
Isopropyl Acetate
Concen: 140.531 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

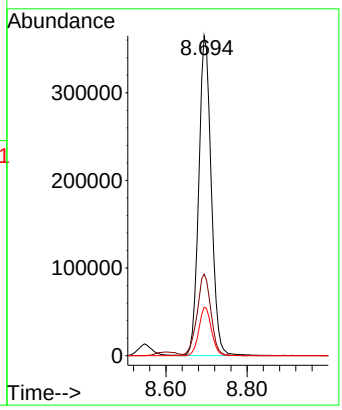
Tgt Ion: 43 Resp: 78079

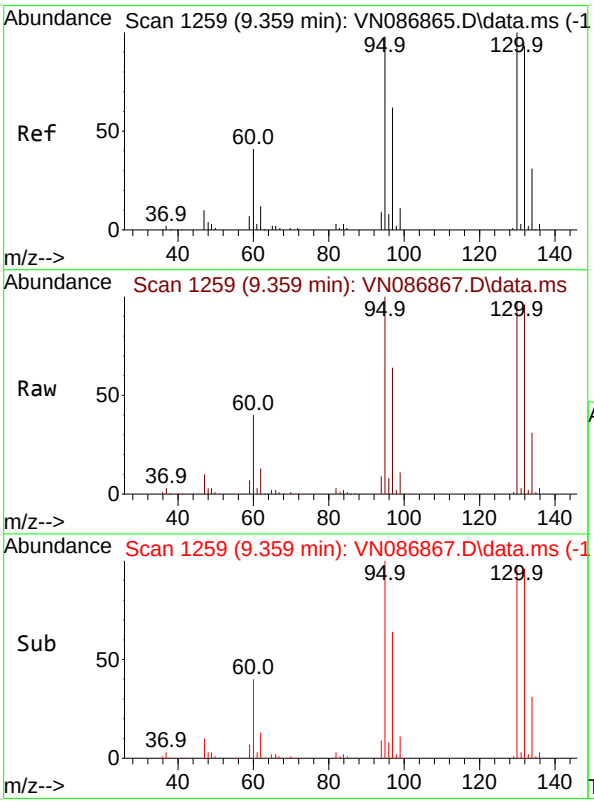
Ion	Ratio	Lower	Upper
43	100		
61	28.3	22.1	33.1
87	15.3	11.8	17.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

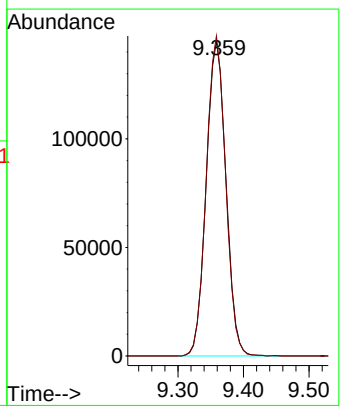


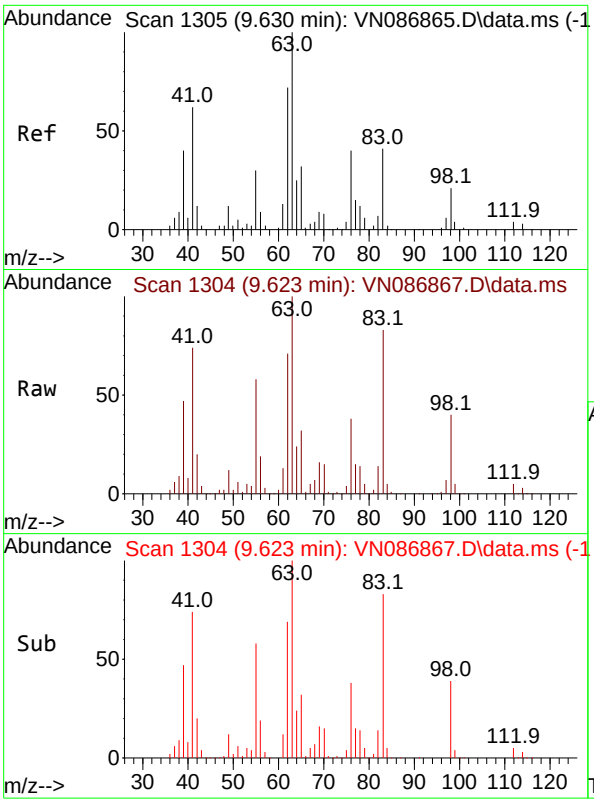


#44
Trichloroethene
Concen: 143.490 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:130 Resp: 302548

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	196.2

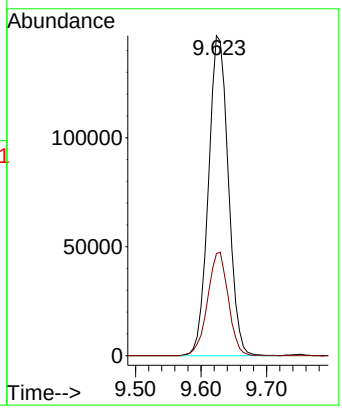




#45
1,2-Dichloropropane
Concen: 142.856 ug/l
RT: 9.623 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 63 Resp: 30904

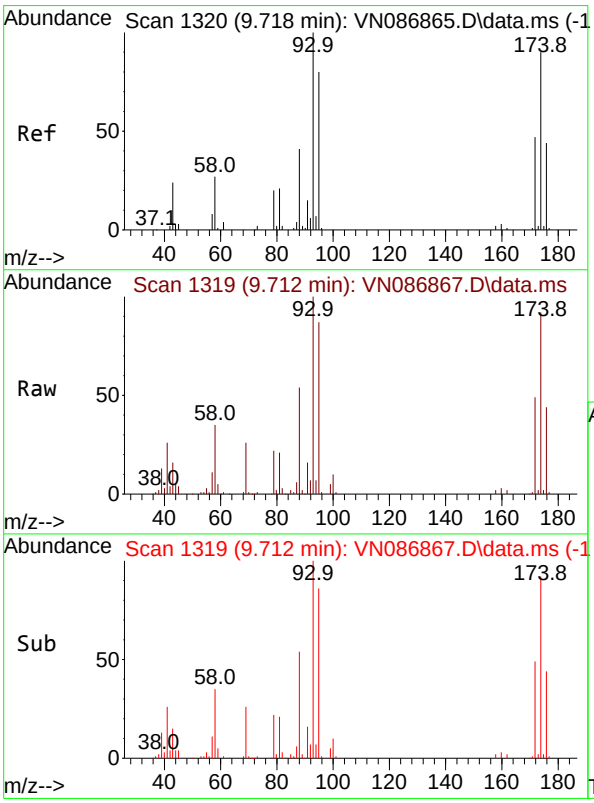
Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

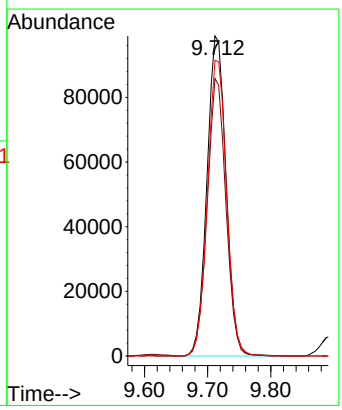
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

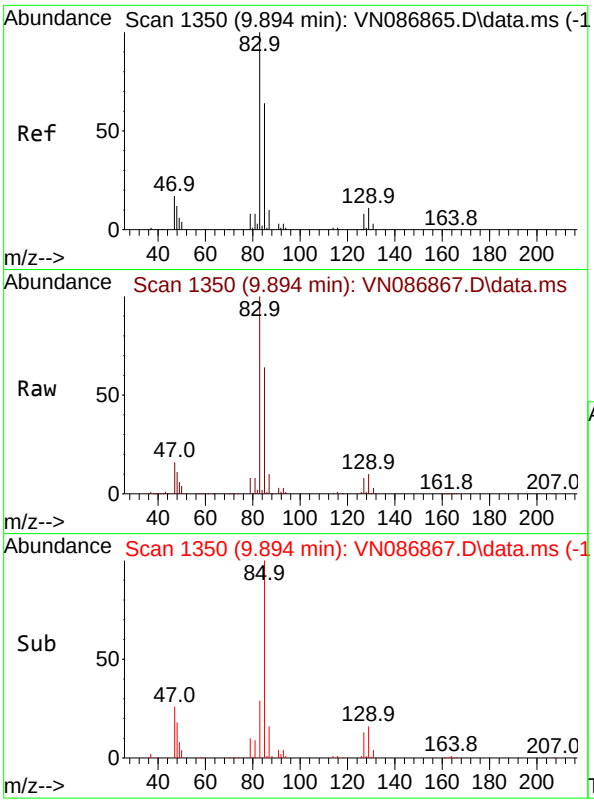


#46
Dibromomethane
Concen: 145.074 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 93 Resp: 208461

Ion	Ratio	Lower	Upper
93	100		
95	84.8	67.1	100.7
174	92.8	74.2	111.4

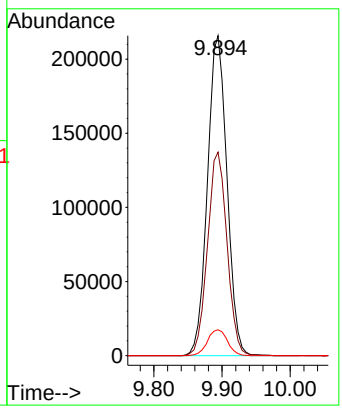




#47
Bromodichloromethane
Concen: 145.449 ug/l
RT: 9.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 83 Resp: 43001

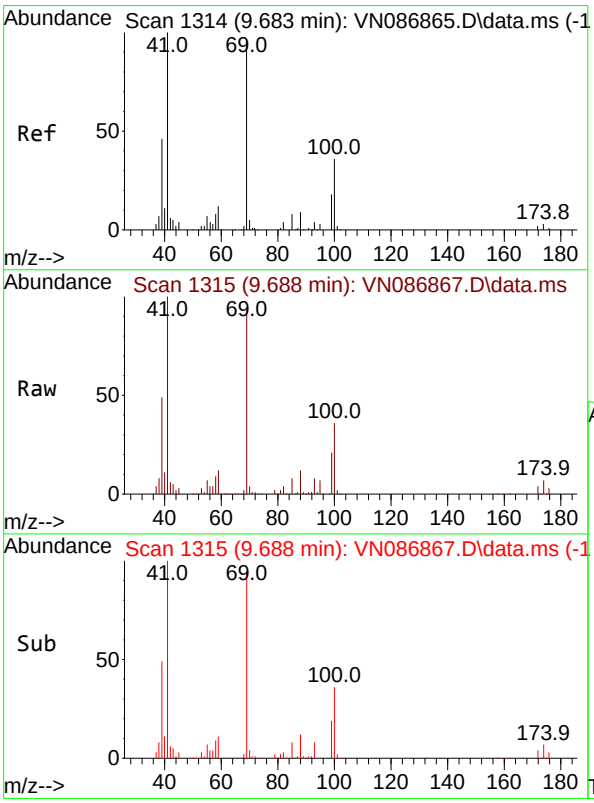
Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3
127	8.1	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

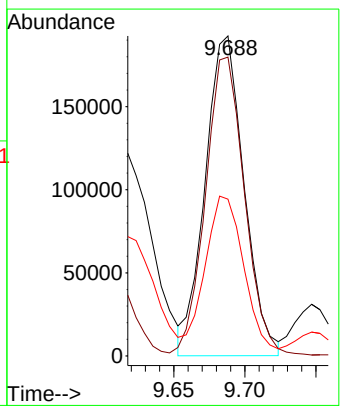
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

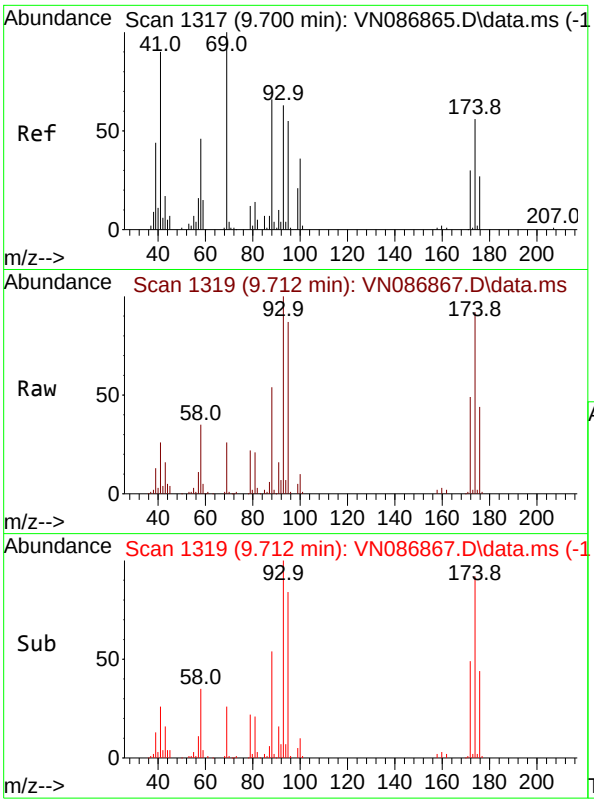


#48
Methyl methacrylate
Concen: 143.502 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 41 Resp: 366967

Ion	Ratio	Lower	Upper
41	100		
69	94.2	74.6	112.0
39	50.8	40.2	60.4

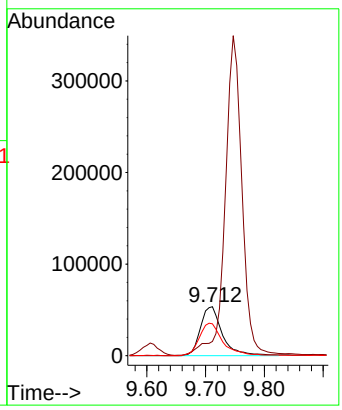




#49
1,4-Dioxane
Concen: 2967.116 ug/l
RT: 9.712 min Scan# 1
Delta R.T. 0.011 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 88 Resp: 13803

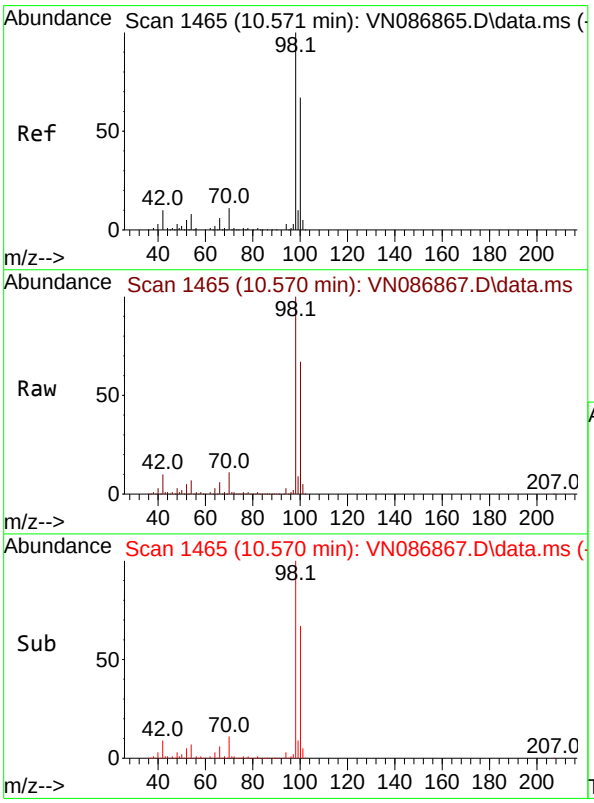
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	72.2	57.7	86.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

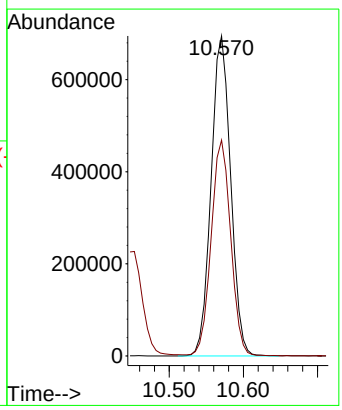
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

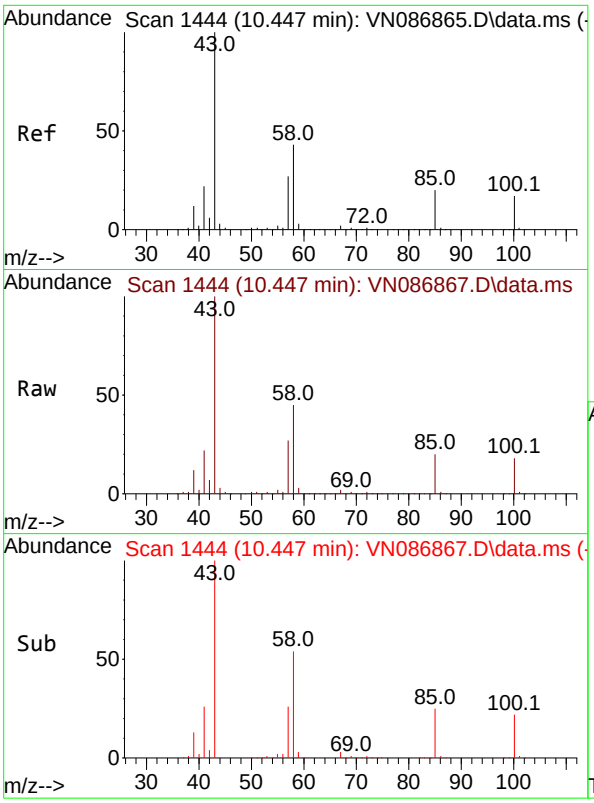


#50
Toluene-d8
Concen: 176.120 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 98 Resp: 1272348

Ion	Ratio	Lower	Upper
98	100		
100	67.5	53.4	80.0

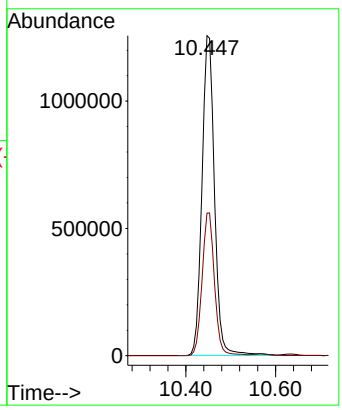




#51
4-Methyl-2-Pentanone
Concen: 728.995 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 43 Resp: 243831

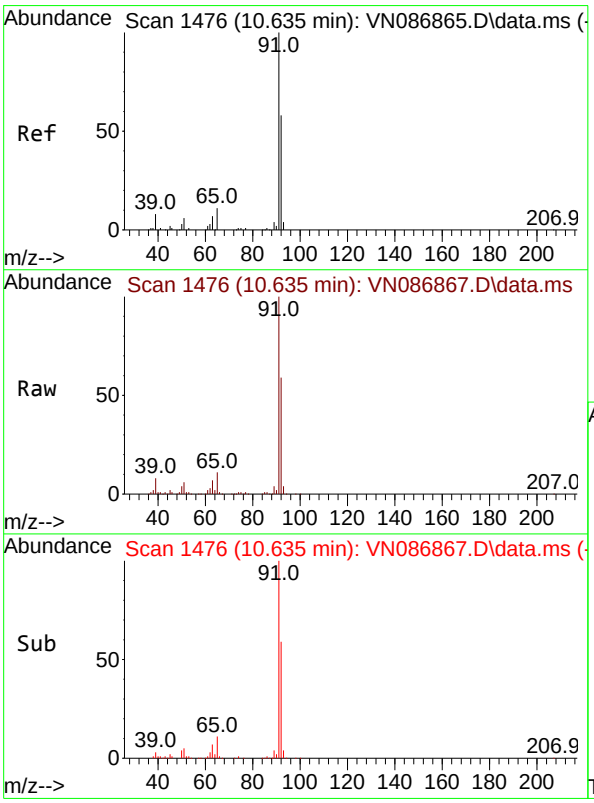
Ion	Ratio	Lower	Upper
43	100		
58	44.0	34.2	51.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

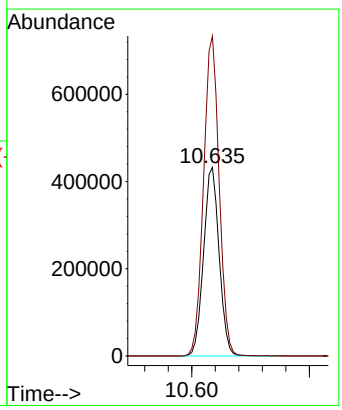
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

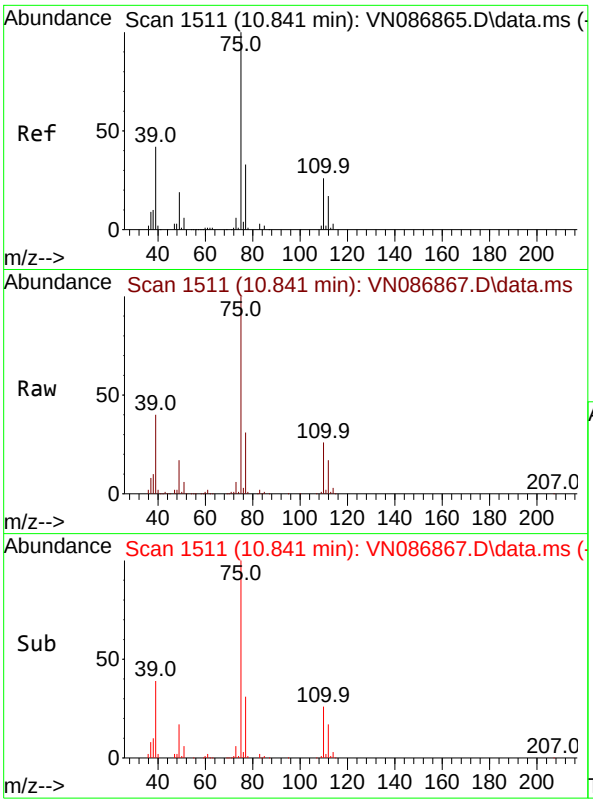


#52
Toluene
Concen: 145.976 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 92 Resp: 793270

Ion	Ratio	Lower	Upper
92	100		
91	170.2	136.5	204.7

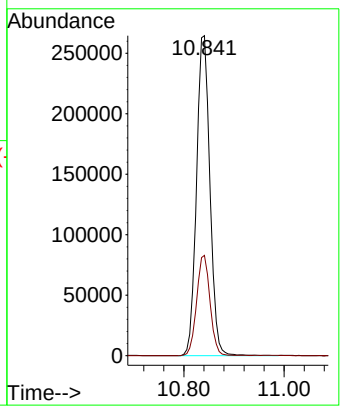




#53
t-1,3-Dichloropropene
Concen: 148.163 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 75 Resp: 48980

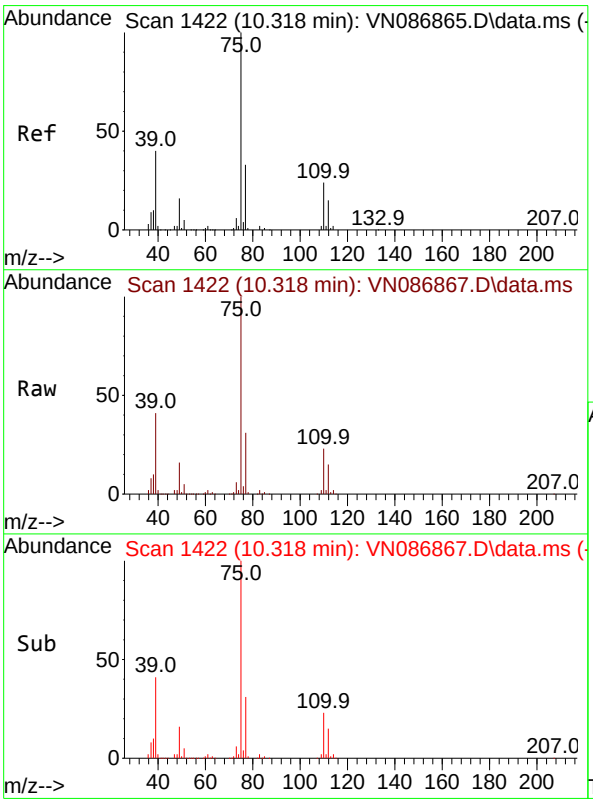
Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

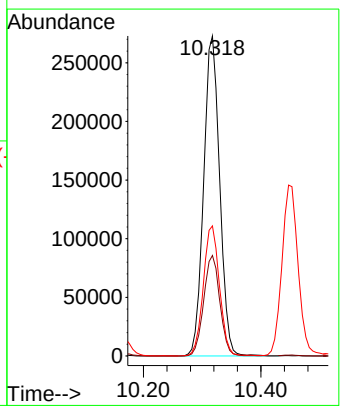
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

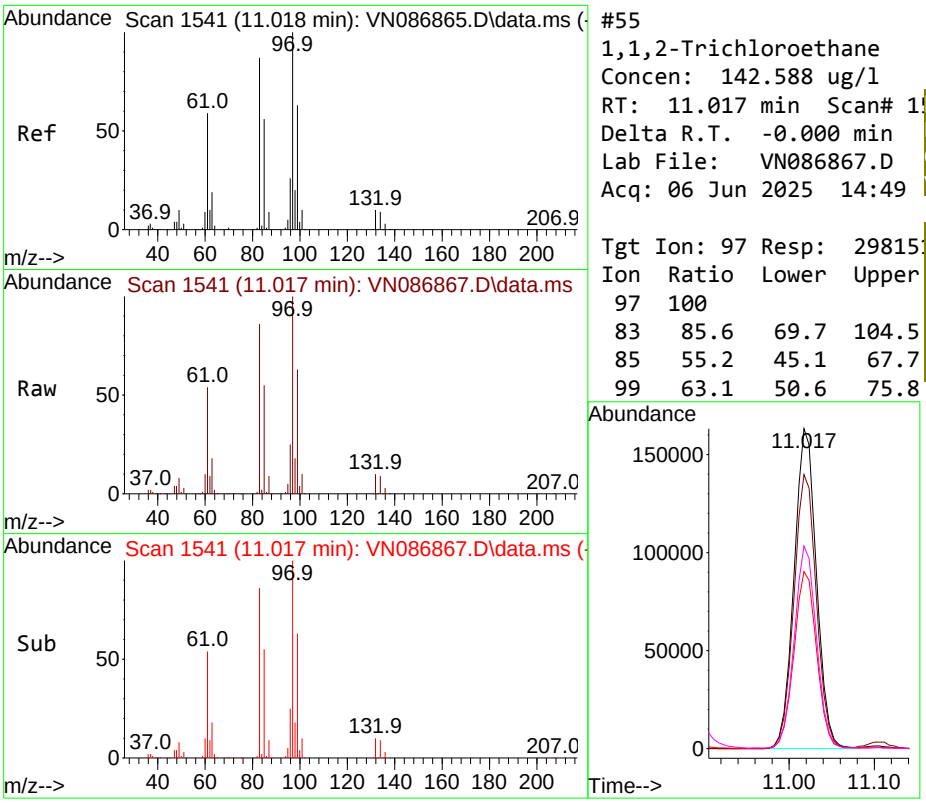


#54
cis-1,3-Dichloropropene
Concen: 146.469 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 75 Resp: 518092

Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.2	39.4
39	40.6	32.3	48.5





#55
1,1,2-Trichloroethane
Concen: 142.588 ug/l
RT: 11.017 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

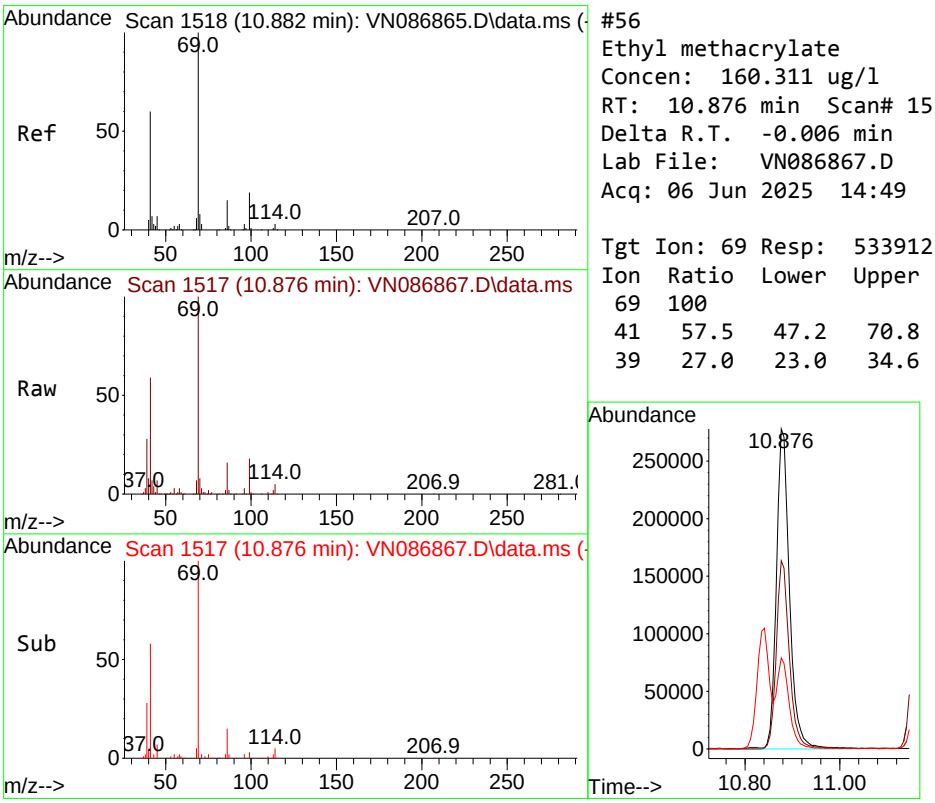
Tgt Ion: 97 Resp: 29815

Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.7	104.5
85	55.2	45.1	67.7
99	63.1	50.6	75.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

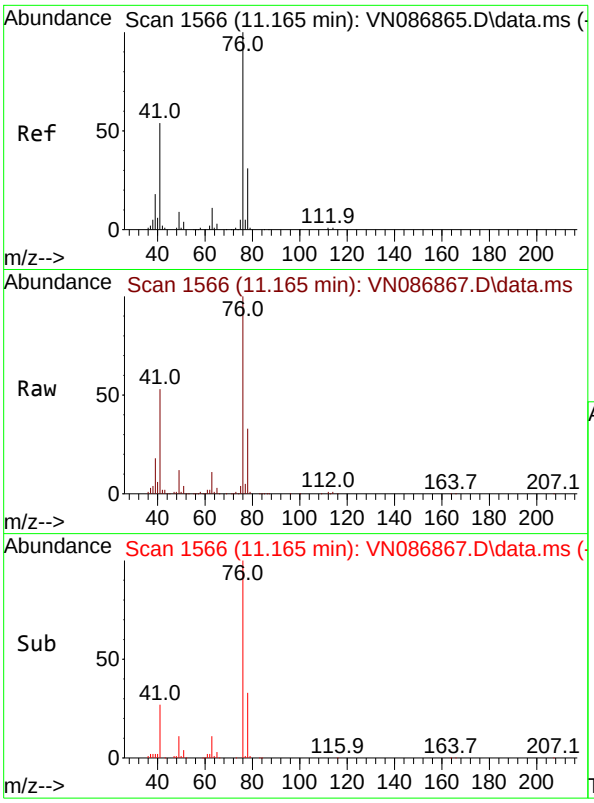
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#56
Ethyl methacrylate
Concen: 160.311 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 69 Resp: 533912

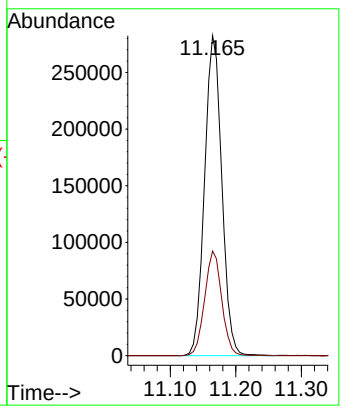
Ion	Ratio	Lower	Upper
69	100		
41	57.5	47.2	70.8
39	27.0	23.0	34.6



#57
1,3-Dichloropropane
Concen: 142.363 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 76 Resp: 51639

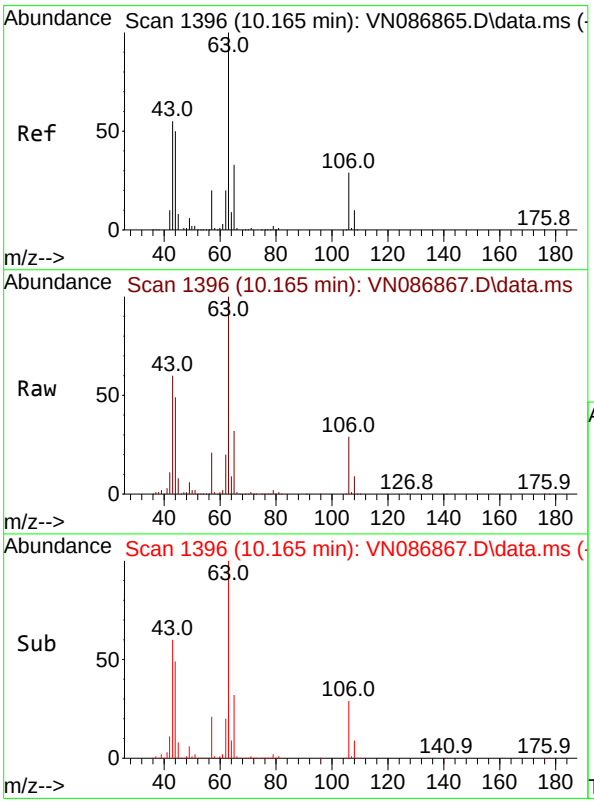
Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

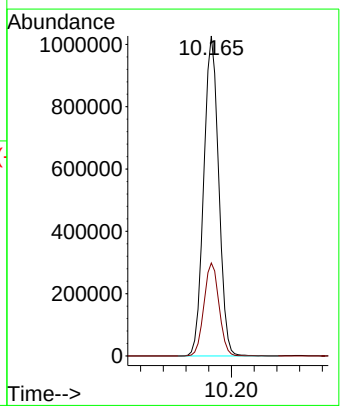
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

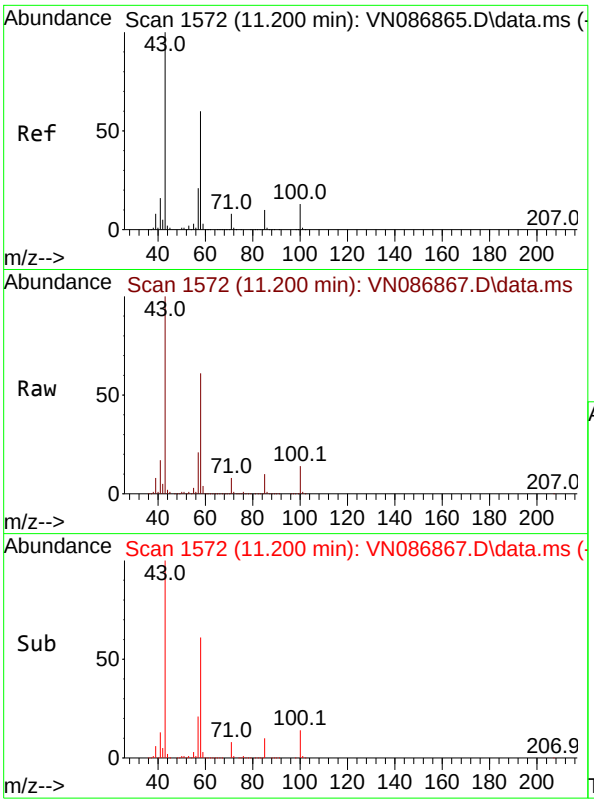


#58
2-Chloroethyl Vinyl ether
Concen: 941.147 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 63 Resp: 1869543

Ion	Ratio	Lower	Upper
63	100		
106	29.2	23.0	34.6





#59
2-Hexanone
Concen: 805.662 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

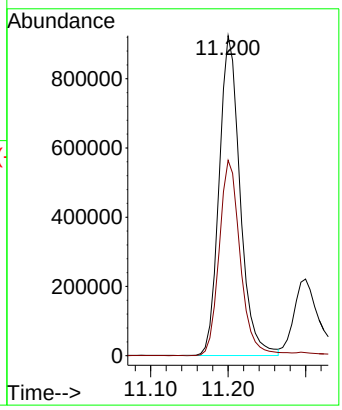
Tgt Ion: 43 Resp: 173577

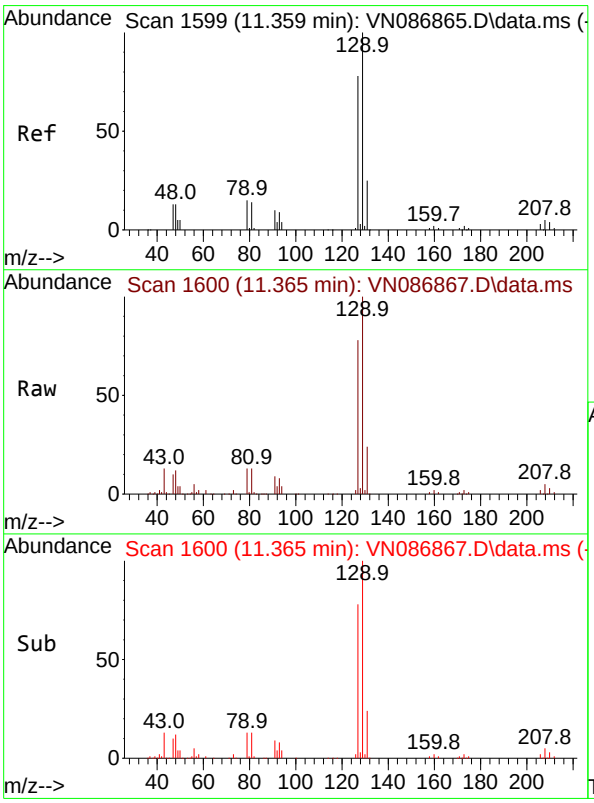
Ion	Ratio	Lower	Upper
43	100		
58	61.6	30.4	91.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

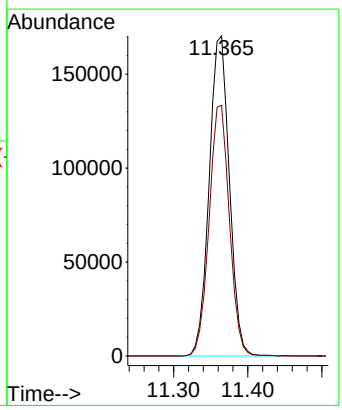


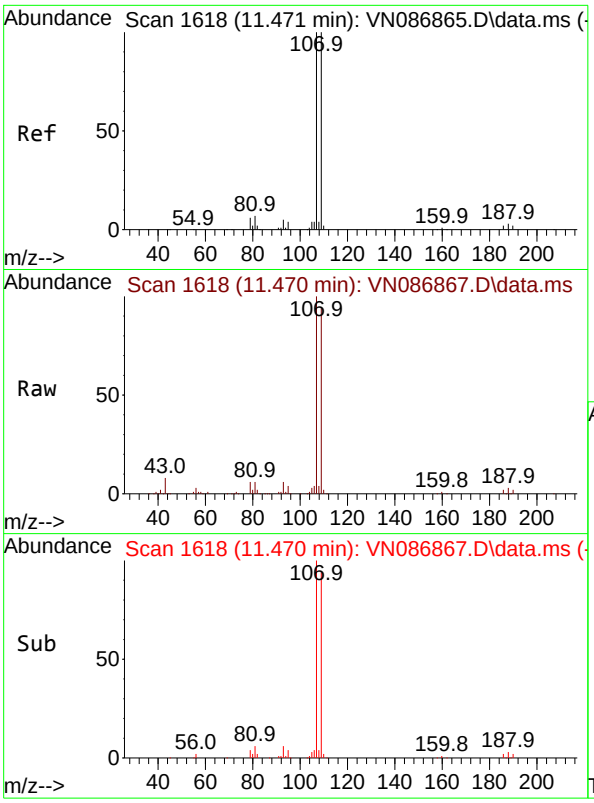


#60
Dibromochloromethane
Concen: 147.832 ug/l
RT: 11.365 min Scan# 1600
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:129 Resp: 322064

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.6	115.8

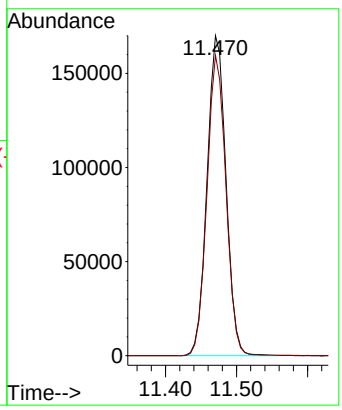




#61
1,2-Dibromoethane
Concen: 146.790 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:107 Resp: 31460

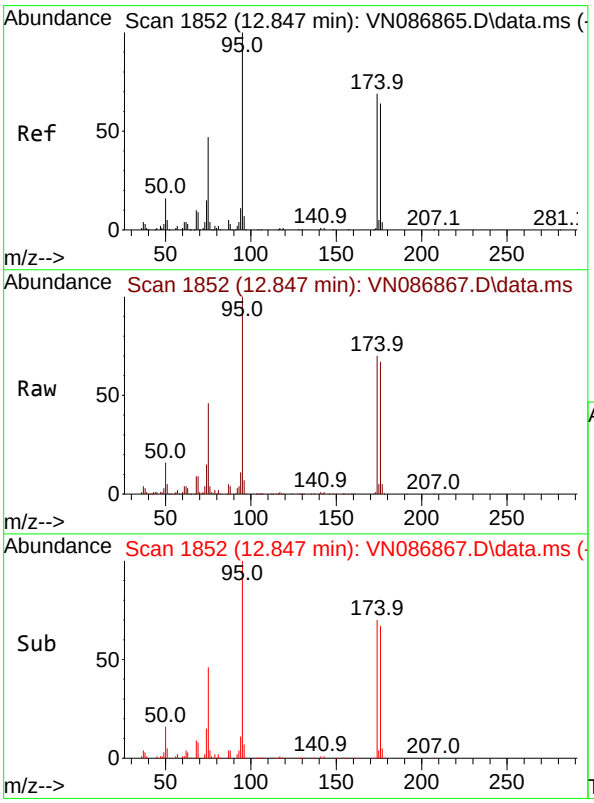
Ion	Ratio	Lower	Upper
107	100		
109	94.0	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

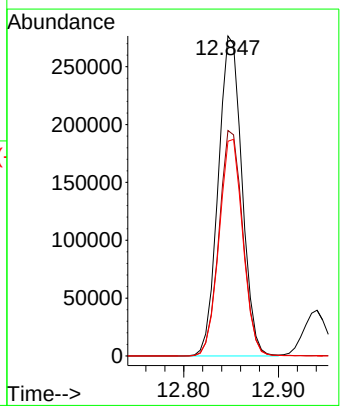
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

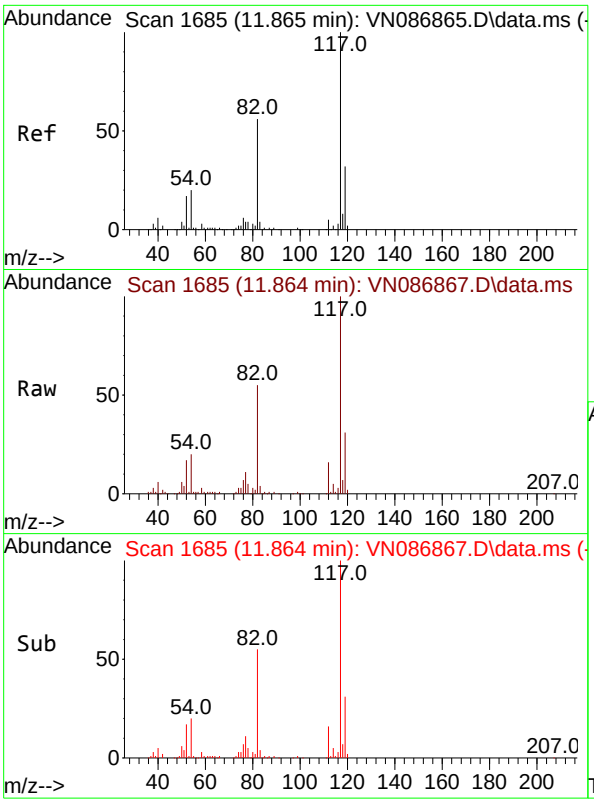


#62
4-Bromofluorobenzene
Concen: 179.364 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 95 Resp: 481421

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	141.8
176	67.8	0.0	132.6

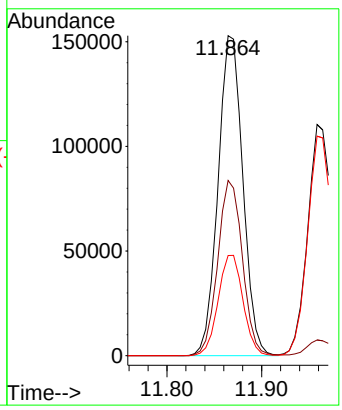




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.864 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:117 Resp: 27855

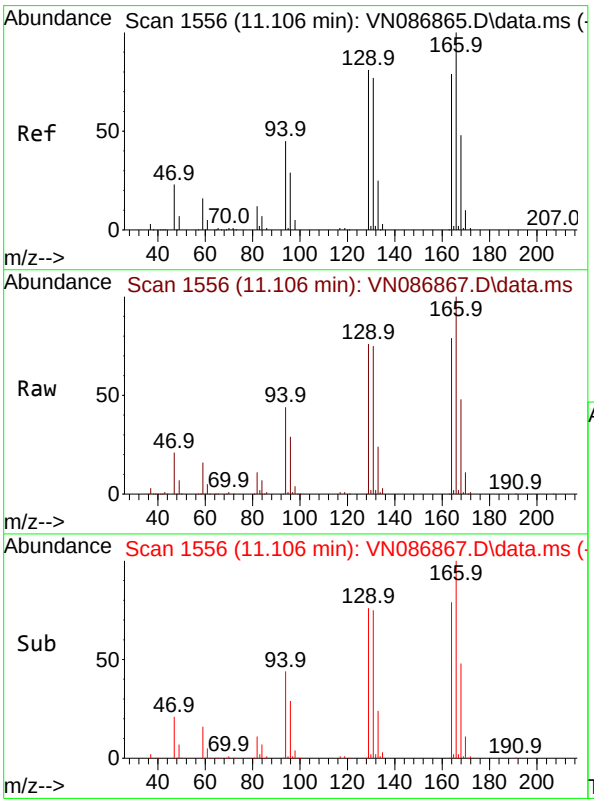
Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.6	67.0
119	31.3	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

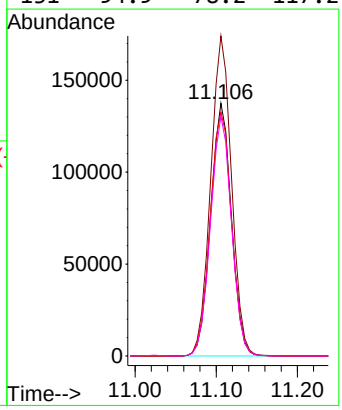
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

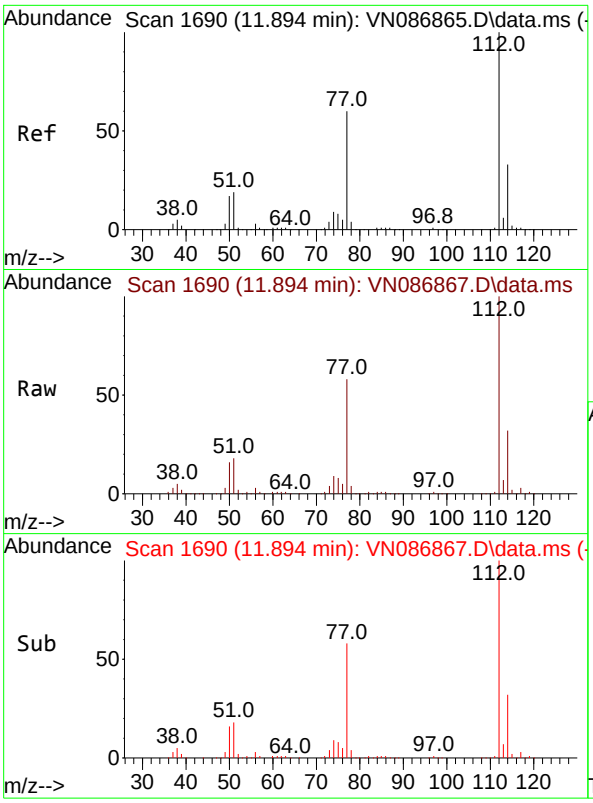


#64
Tetrachloroethene
Concen: 139.048 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:164 Resp: 245122

Ion	Ratio	Lower	Upper
164	100		
166	126.7	101.8	152.8
129	96.6	83.0	124.4
131	94.9	78.2	117.2

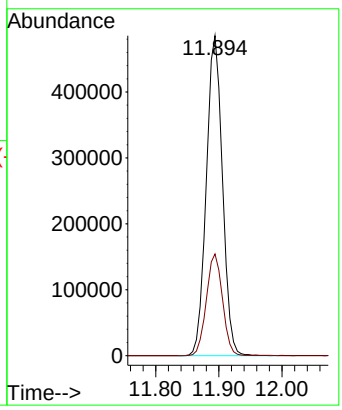




#65
Chlorobenzene
Concen: 140.041 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:112 Resp: 86034

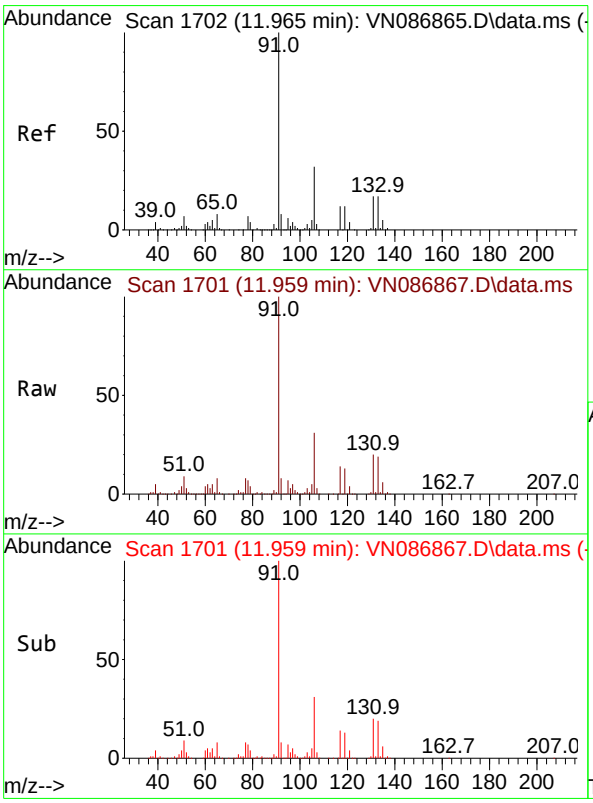
Ion	Ratio	Lower	Upper
112	100		
114	31.8	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

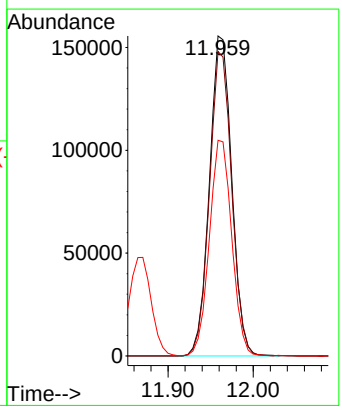
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

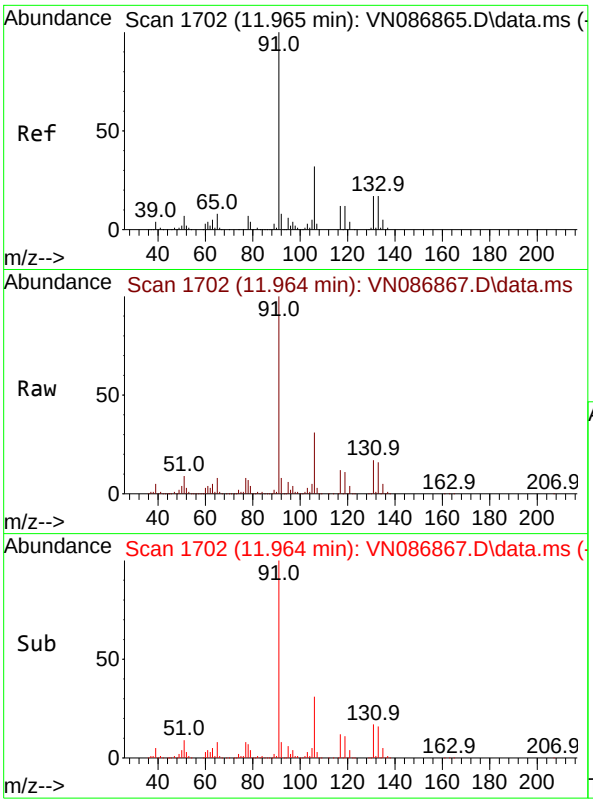


#66
1,1,1,2-Tetrachloroethane
Concen: 143.171 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:131 Resp: 282739

Ion	Ratio	Lower	Upper
131	100		
133	95.2	48.3	144.8
119	67.8	34.0	101.8

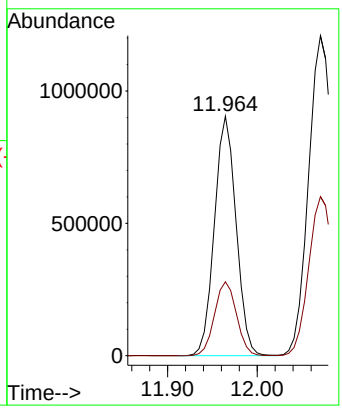




#67
Ethyl Benzene
Concen: 143.438 ug/l
RT: 11.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 91 Resp: 151788

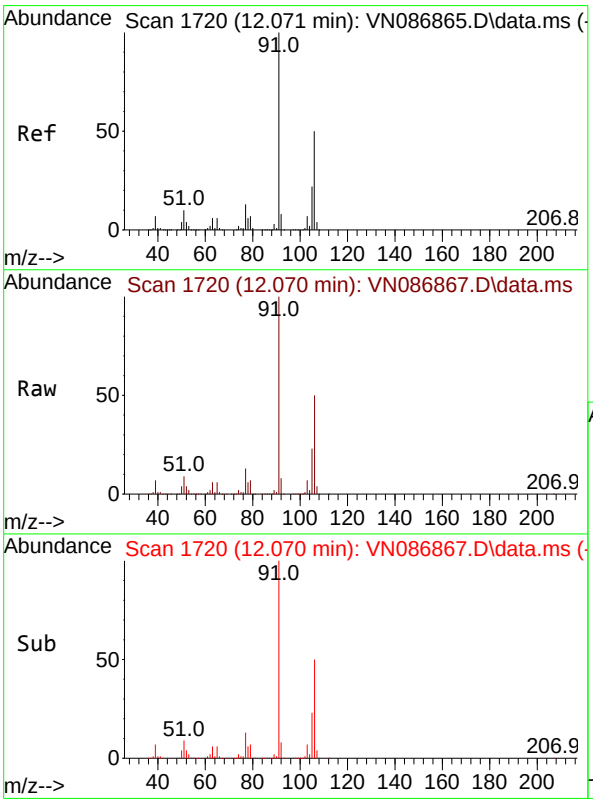
Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

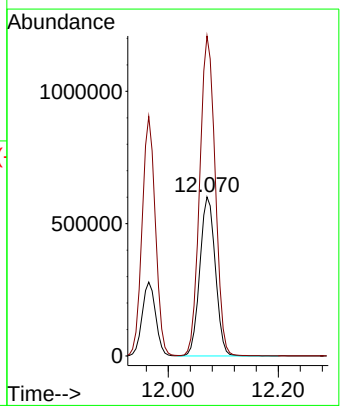
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

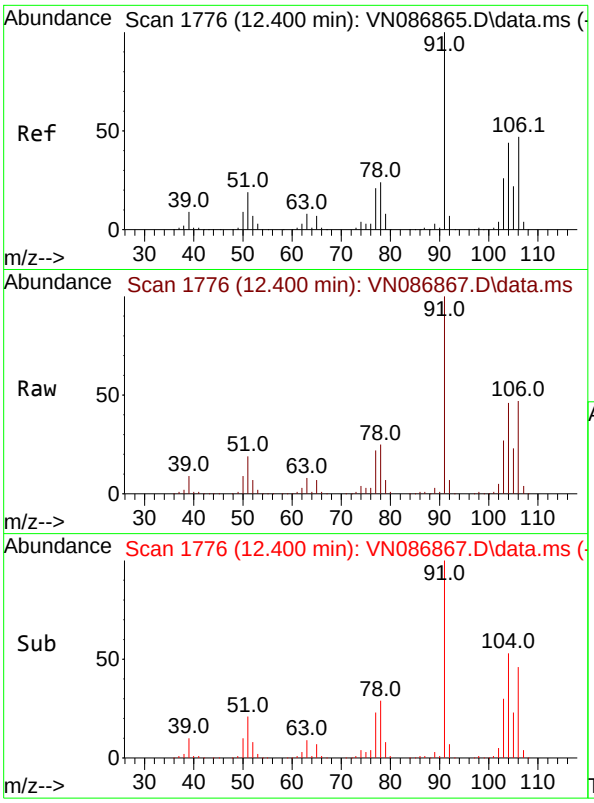


#68
m/p-Xylenes
Concen: 290.155 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:106 Resp: 1175378

Ion	Ratio	Lower	Upper
106	100		
91	200.8	159.4	239.0

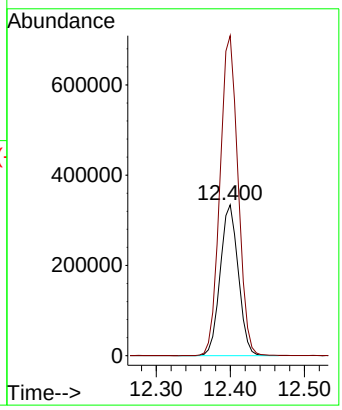




#69
o-Xylene
Concen: 145.966 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:106 Resp: 56630

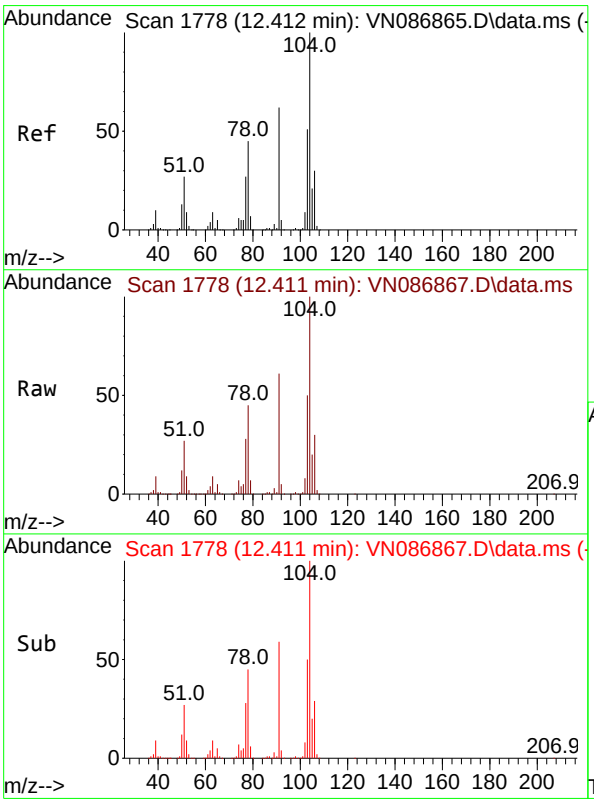
Ion	Ratio	Lower	Upper
106	100		
91	211.9	106.1	318.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

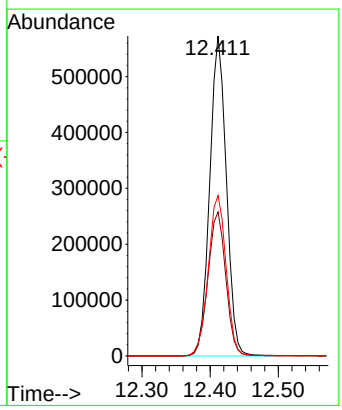
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

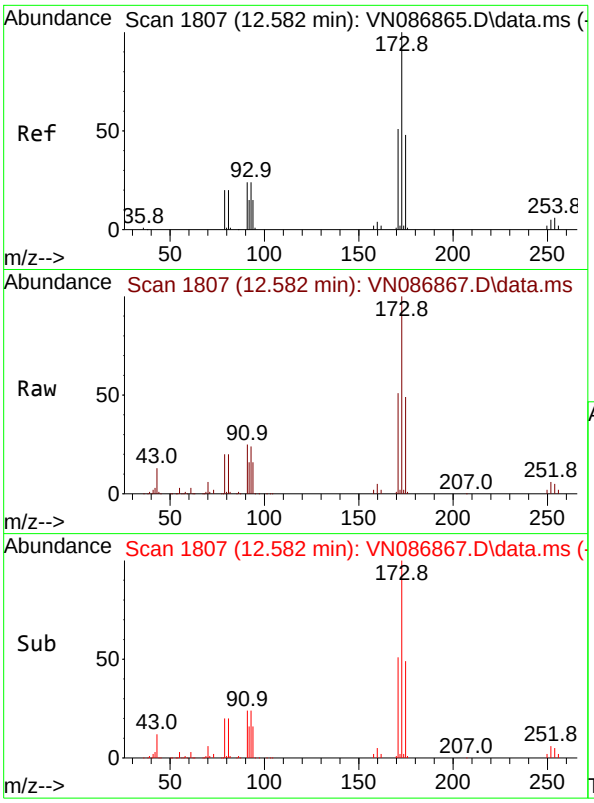


#70
Styrene
Concen: 146.459 ug/l
RT: 12.411 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:104 Resp: 972318

Ion	Ratio	Lower	Upper
104	100		
78	48.4	38.5	57.7
103	54.0	43.1	64.7

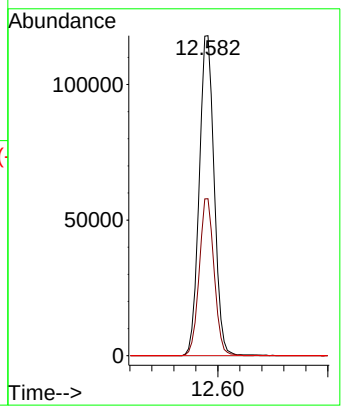




#71
Bromoform
Concen: 152.538 ug/l
RT: 12.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:173 Resp: 22320

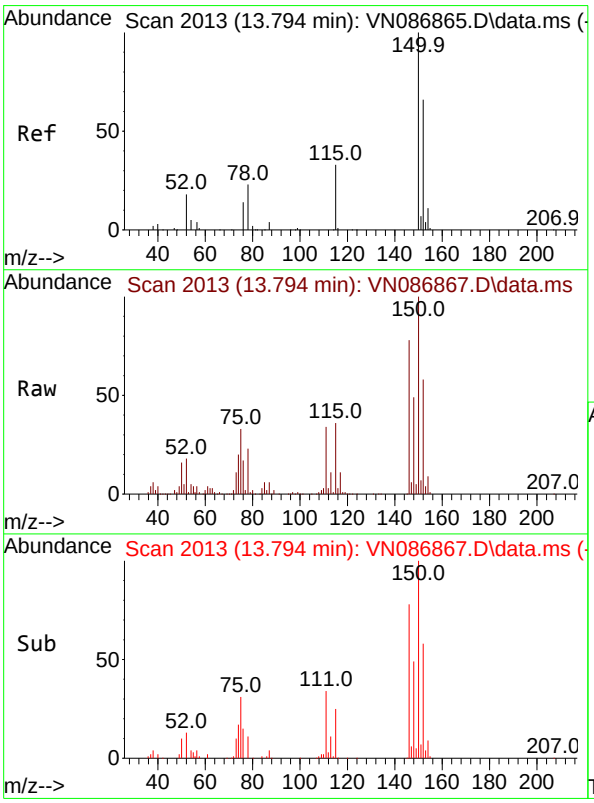
Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

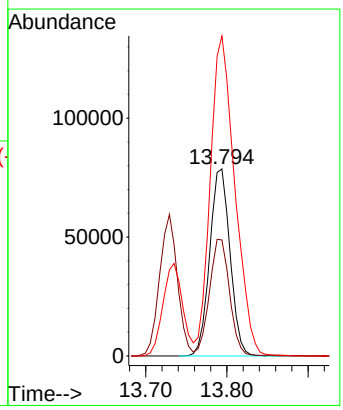
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

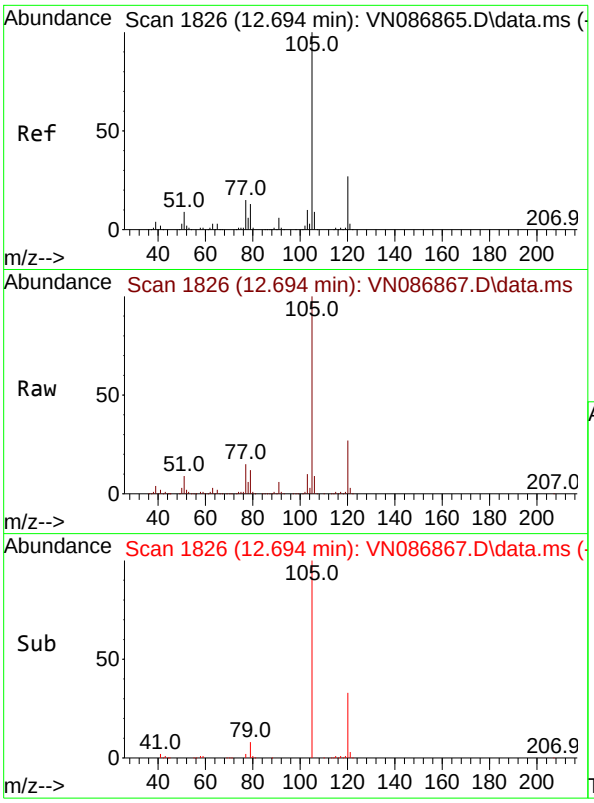


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:152 Resp: 136630

Ion	Ratio	Lower	Upper
152	100		
115	61.1	30.1	90.5
150	206.7	0.0	345.0

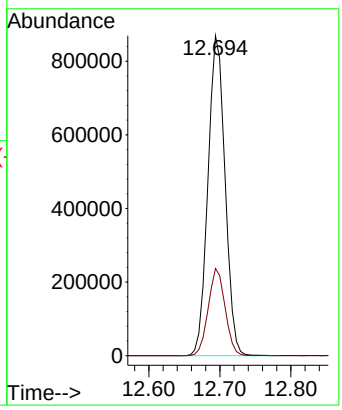




#73
Isopropylbenzene
Concen: 146.042 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:105 Resp: 145365

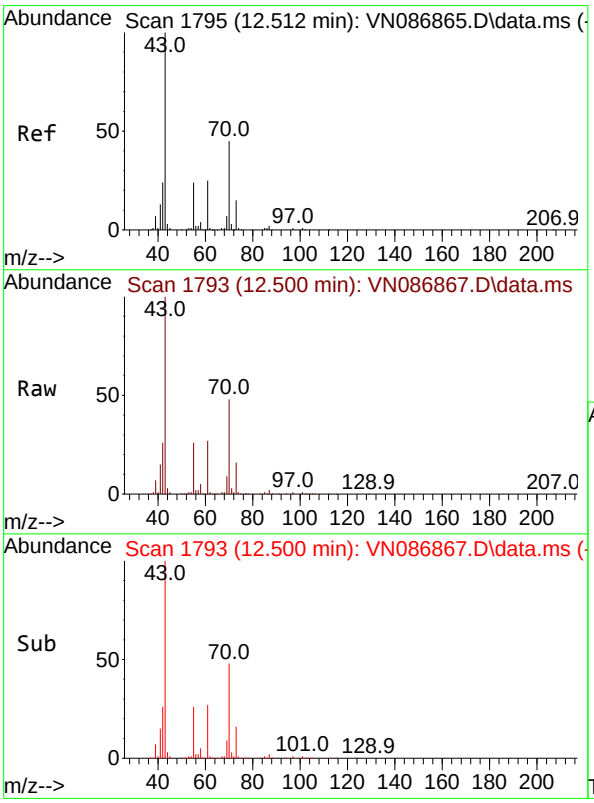
Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

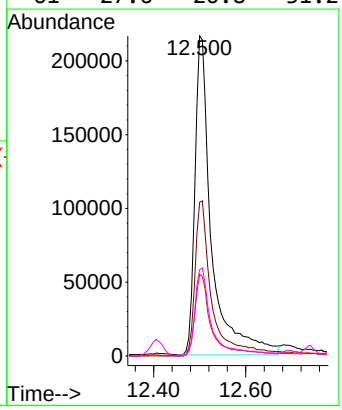
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

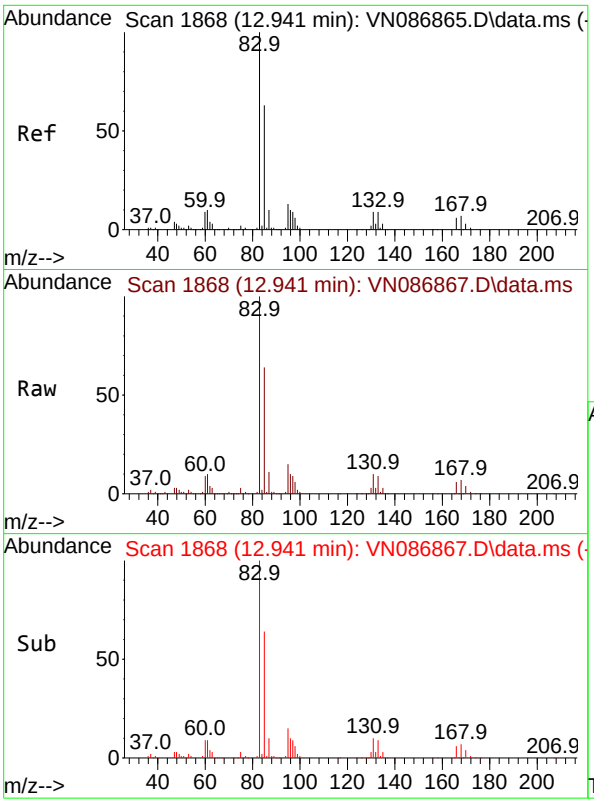


#74
N-amyl acetate
Concen: 164.596 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. -0.012 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 43 Resp: 543747

Ion	Ratio	Lower	Upper
43	100		
70	50.0	37.6	56.4
55	26.1	19.0	28.6
61	27.6	20.8	31.2





#75
1,1,2,2-Tetrachloroethane
Concen: 140.693 ug/l
RT: 12.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

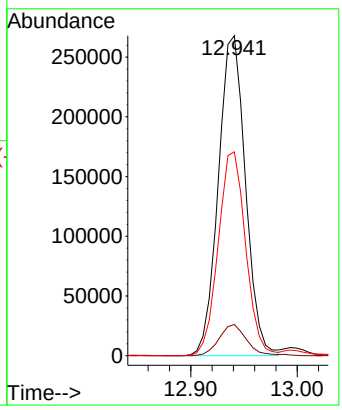
Tgt Ion: 83 Resp: 47442

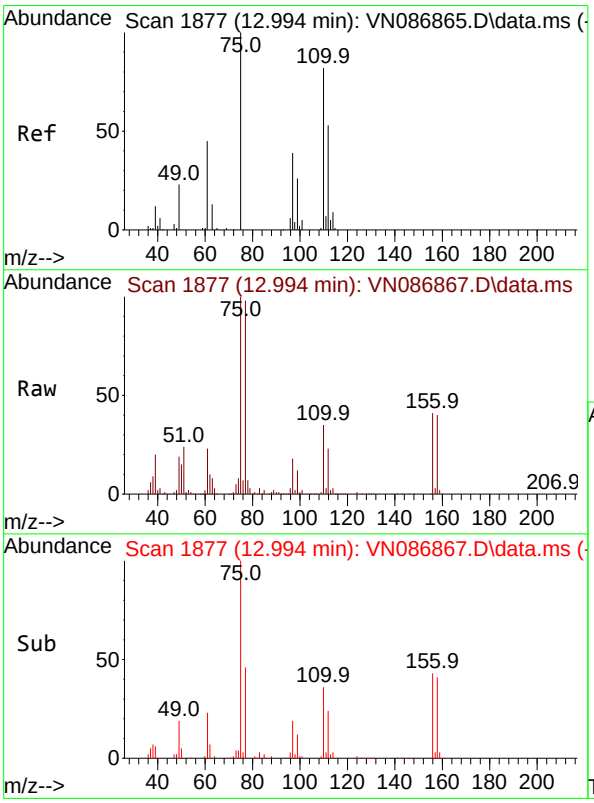
Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.9	14.7
85	64.3	32.0	96.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

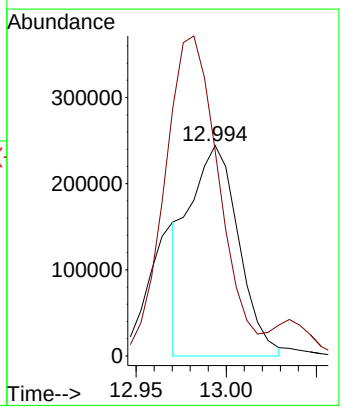


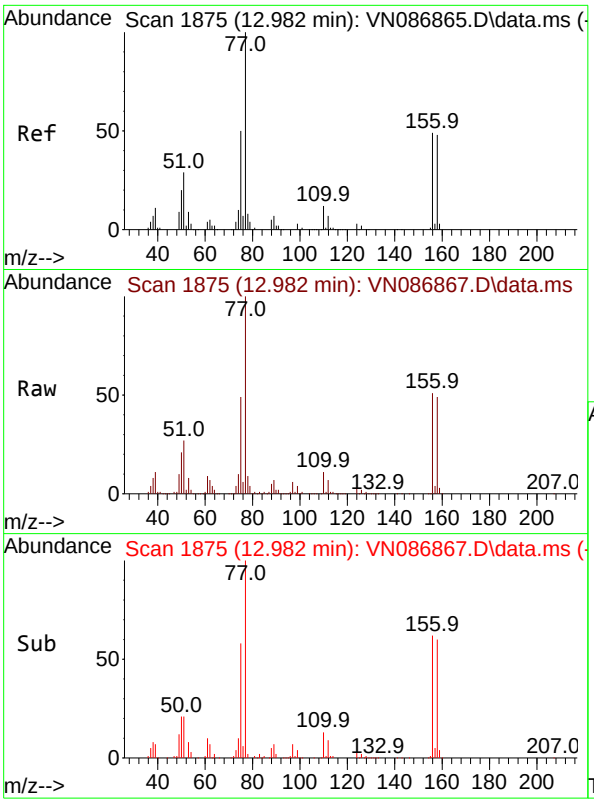


#76
1,2,3-Trichloropropane
Concen: 143.665 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 75 Resp: 468041

Ion	Ratio	Lower	Upper
75	100		
77	166.0	79.3	237.9

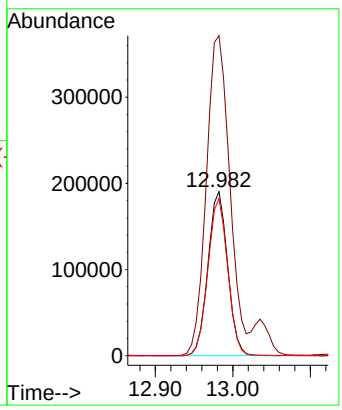




#77
Bromobenzene
Concen: 147.077 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:156 Resp: 33573

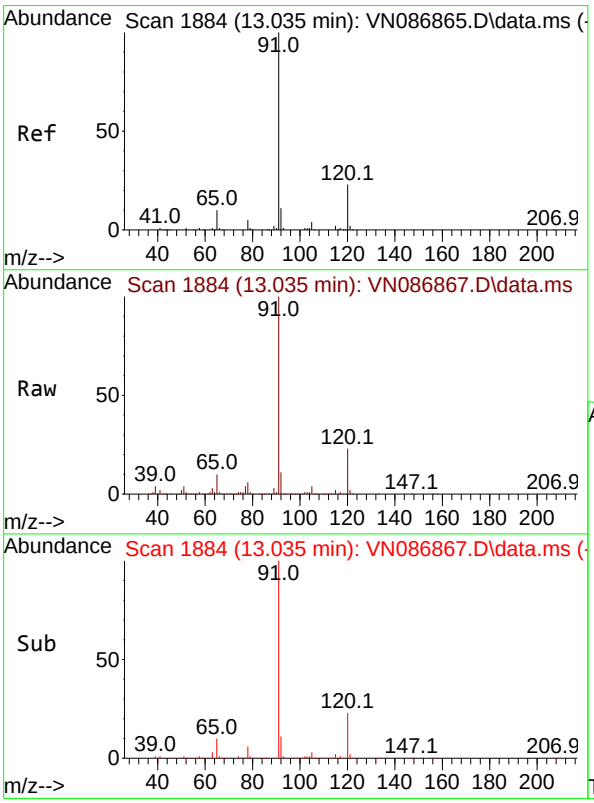
Ion	Ratio	Lower	Upper
156	100		
77	231.5	117.7	353.1
158	96.3	48.1	144.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

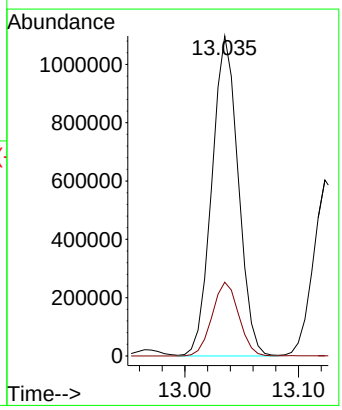
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

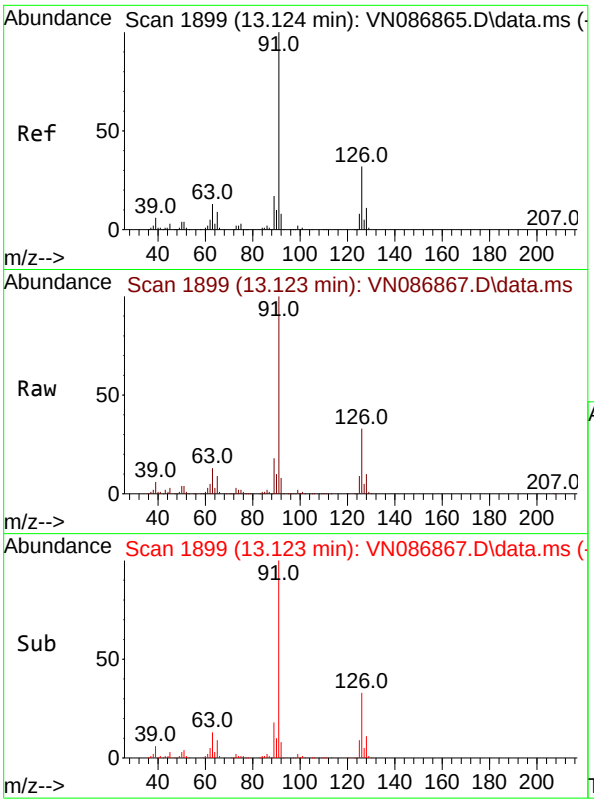


#78
n-propylbenzene
Concen: 146.301 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 91 Resp: 1769694

Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.4	34.2

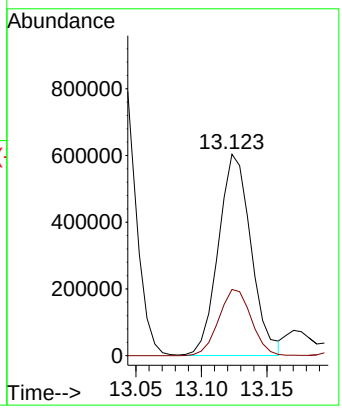




#79
2-Chlorotoluene
Concen: 144.317 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 91 Resp: 104691

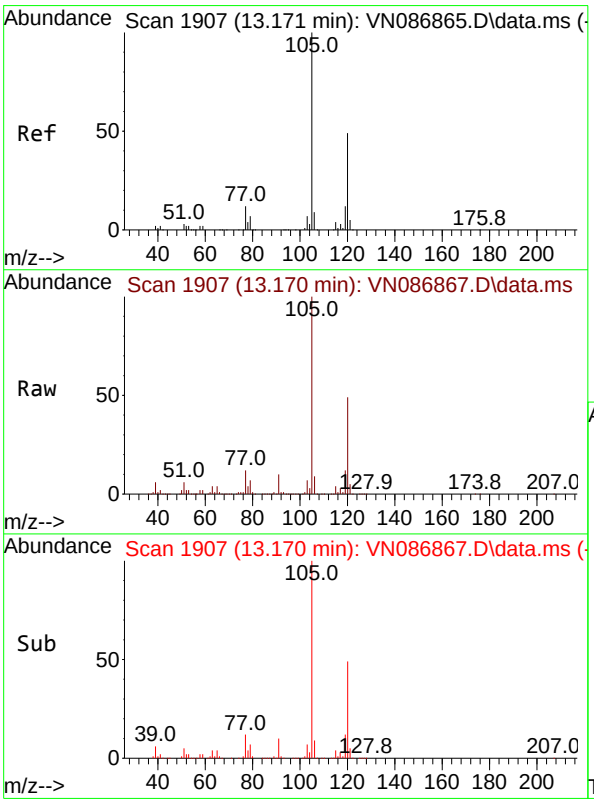
Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

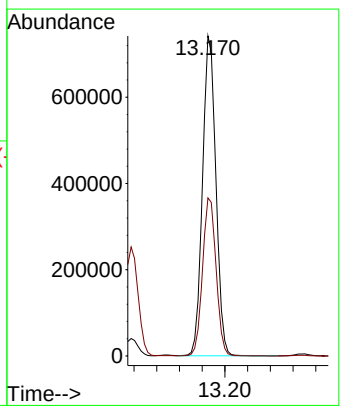
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

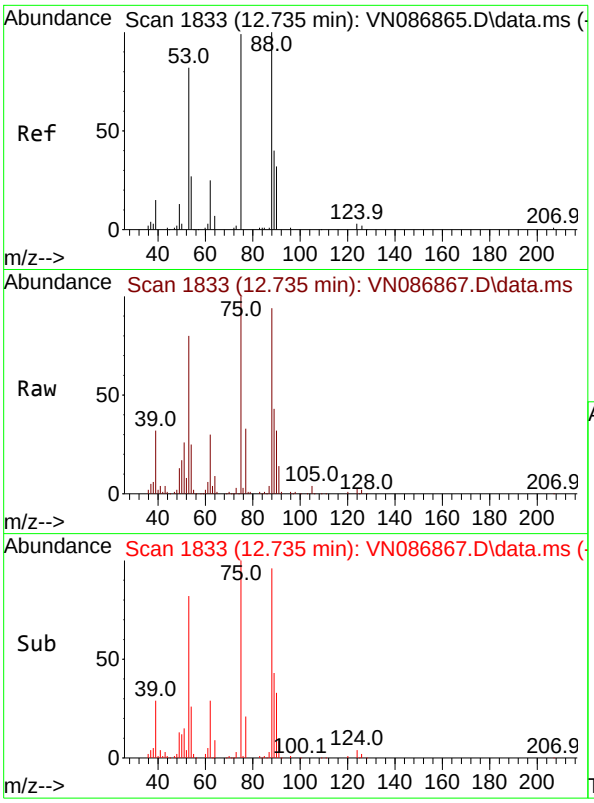


#80
1,3,5-Trimethylbenzene
Concen: 147.279 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:105 Resp: 1210325

Ion	Ratio	Lower	Upper
105	100		
120	50.0	24.9	74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 153.277 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

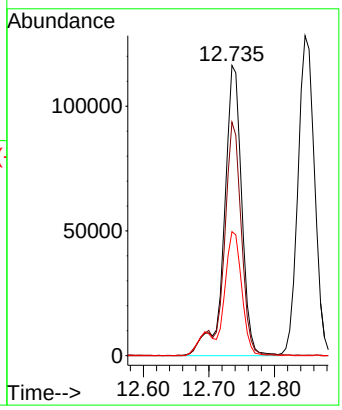
Tgt Ion: 75 Resp: 21625

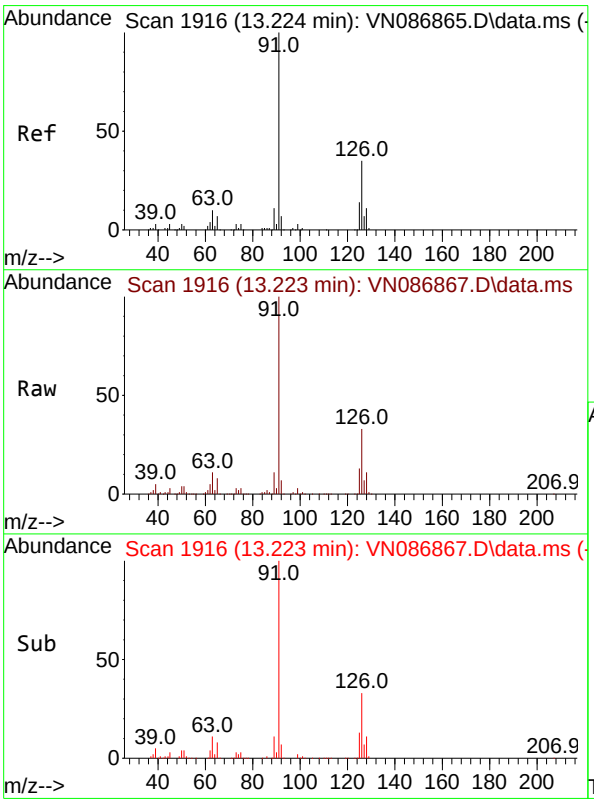
Ion	Ratio	Lower	Upper
75	100		
53	81.3	66.6	99.8
89	40.0	36.7	55.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

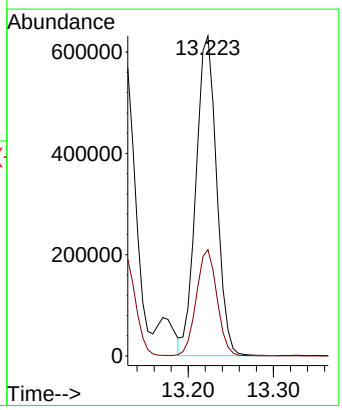


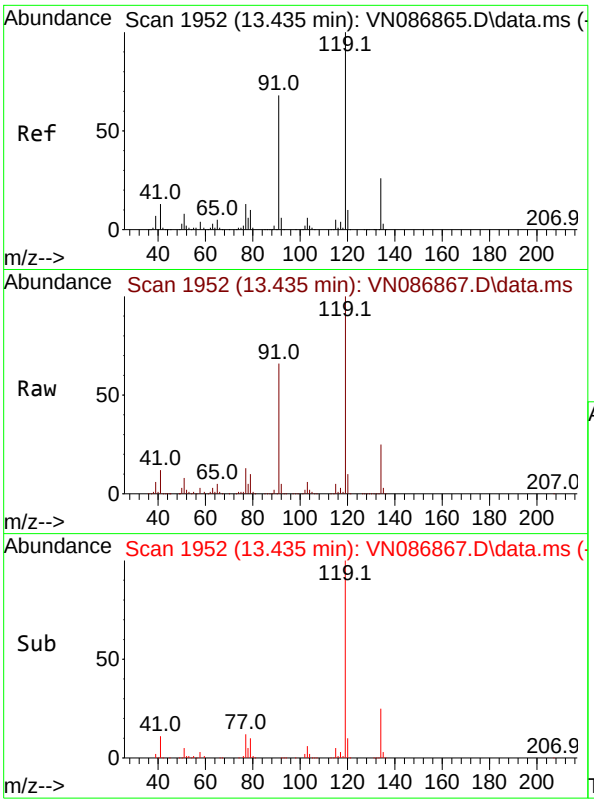


#82
4-Chlorotoluene
Concen: 144.900 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 91 Resp: 1063581

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.7	50.1

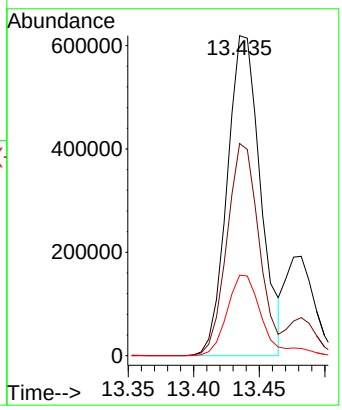




#83
tert-Butylbenzene
Concen: 145.352 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:119 Resp: 109340

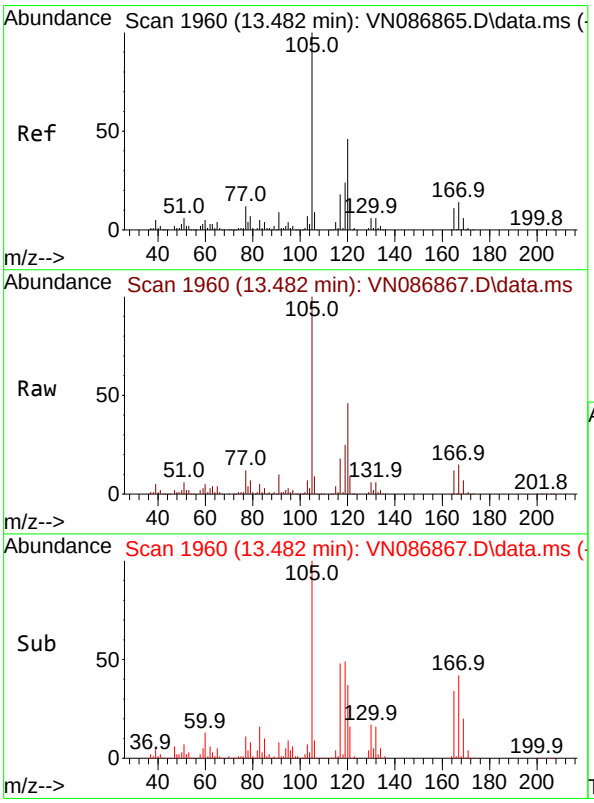
Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.1	96.5
134	26.7	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

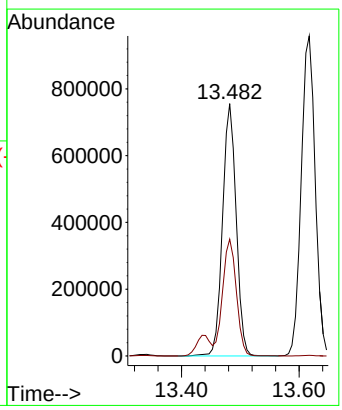
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

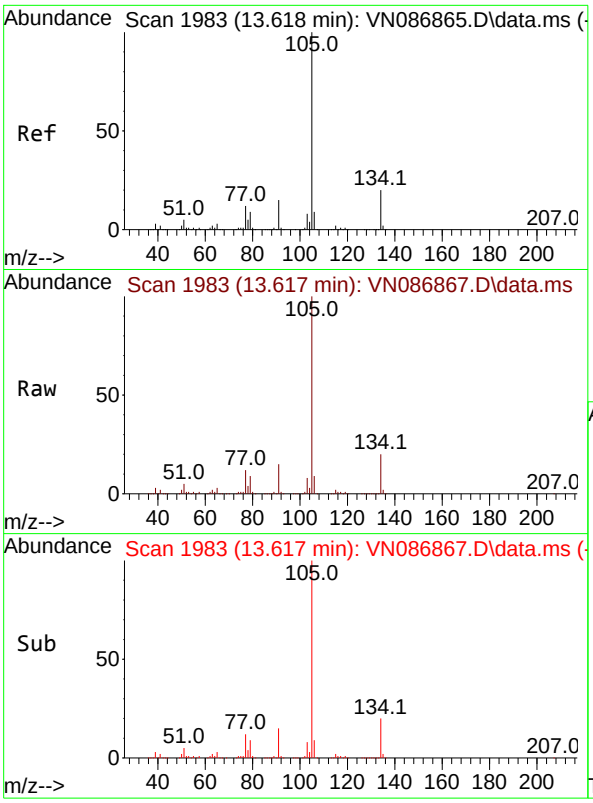


#84
1,2,4-Trimethylbenzene
Concen: 147.626 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:105 Resp: 1216529

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.2	69.6





#85
sec-Butylbenzene
Concen: 144.885 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

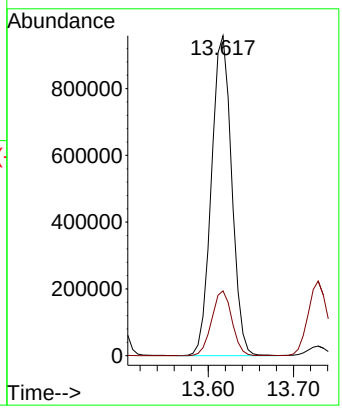
Tgt Ion:105 Resp: 158276

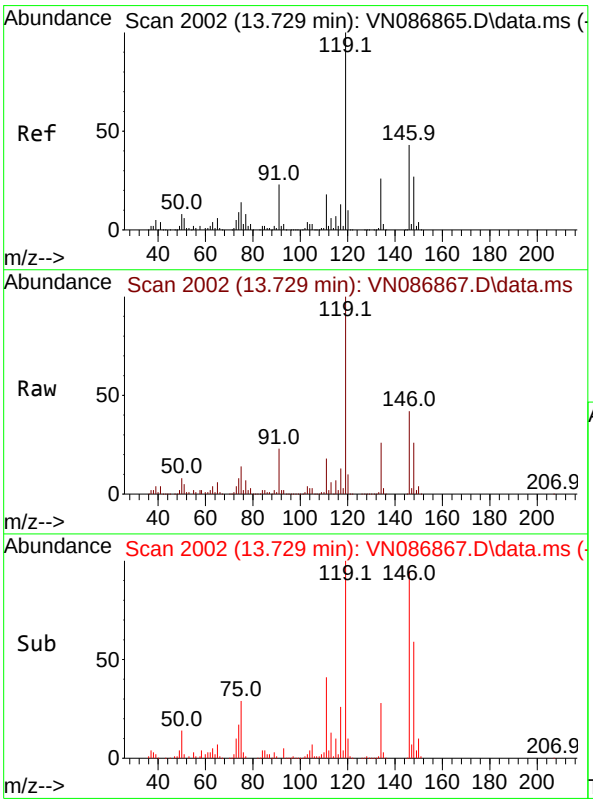
Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.0	30.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

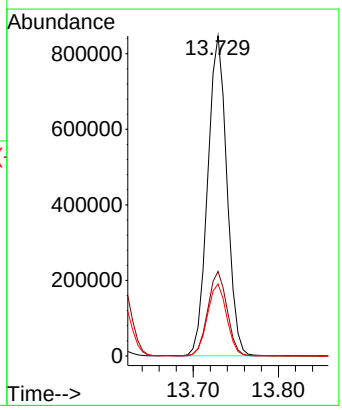


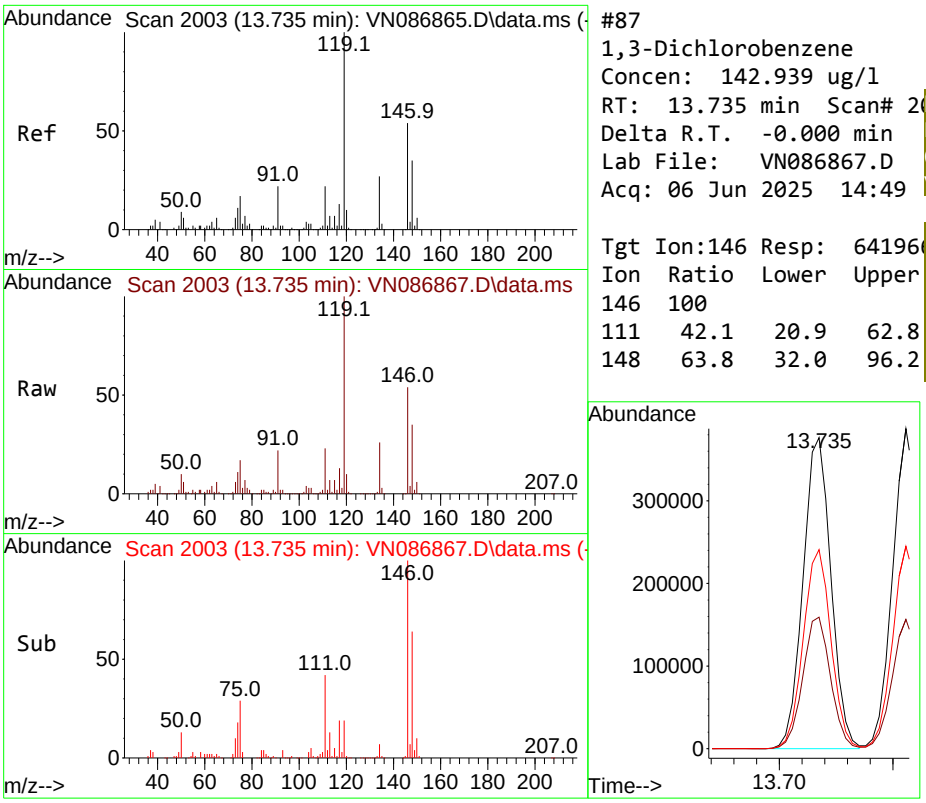


#86
p-Isopropyltoluene
Concen: 146.482 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:119 Resp: 1322780

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.5	40.4
91	22.7	11.5	34.4





#87
1,3-Dichlorobenzene
Concen: 142.939 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

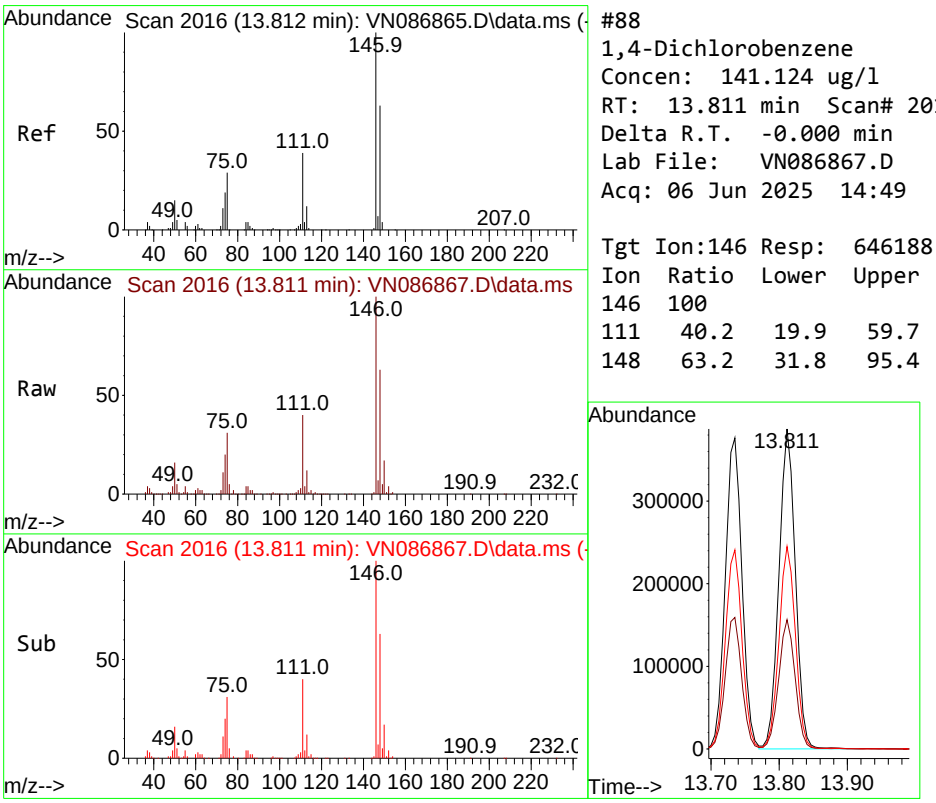
Tgt Ion:146 Resp: 64196

Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.9	62.8
148	63.8	32.0	96.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

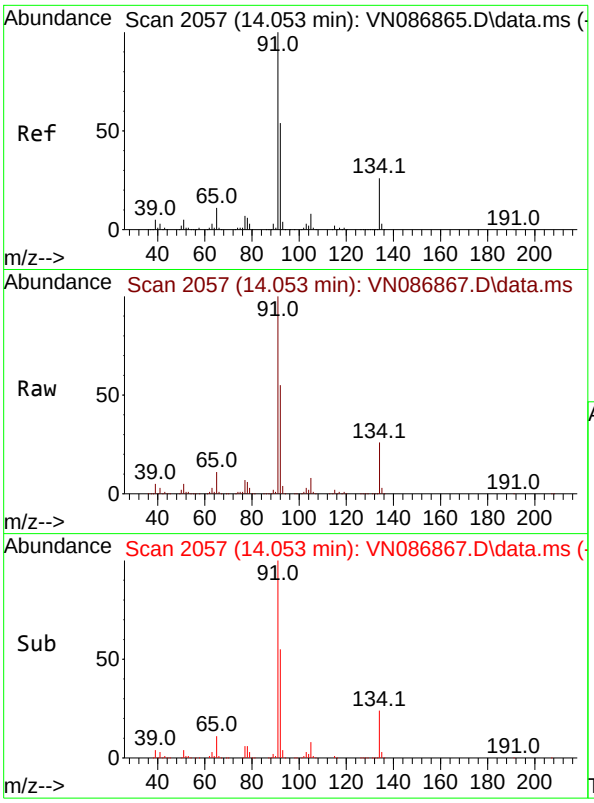
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#88
1,4-Dichlorobenzene
Concen: 141.124 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:146 Resp: 646188

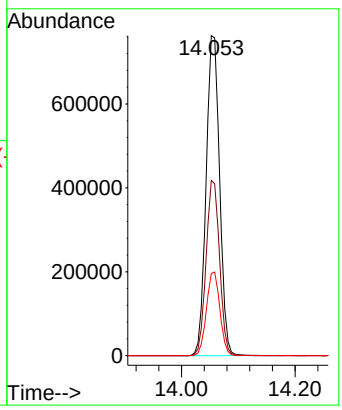
Ion	Ratio	Lower	Upper
146	100		
111	40.2	19.9	59.7
148	63.2	31.8	95.4



#89
n-Butylbenzene
Concen: 143.117 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 91 Resp: 125181

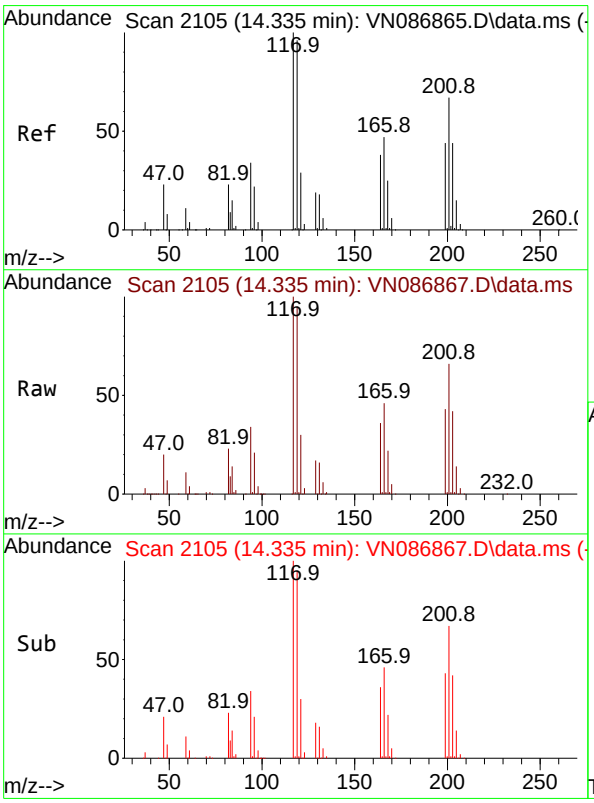
Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.5	82.4
134	26.1	13.0	39.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

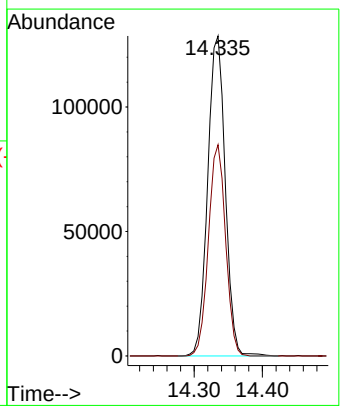
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

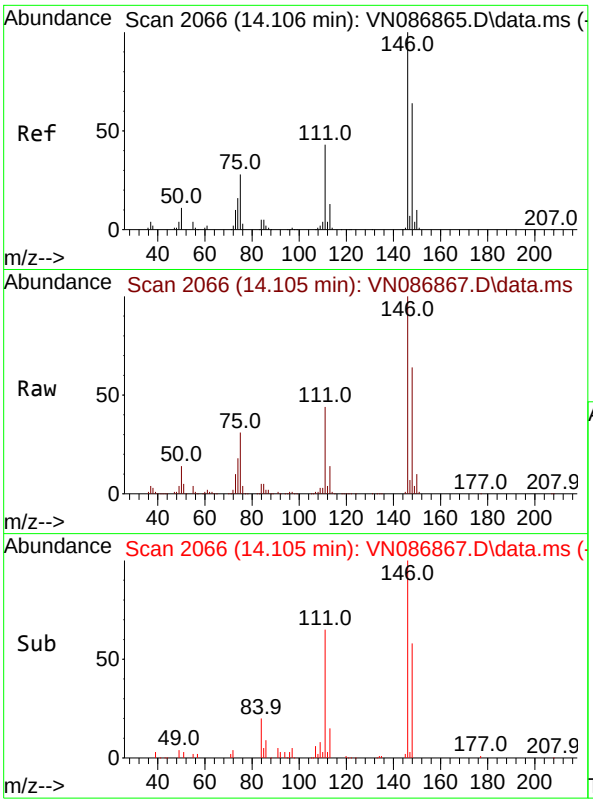


#90
Hexachloroethane
Concen: 150.387 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:117 Resp: 230195

Ion	Ratio	Lower	Upper
117	100		
201	64.5	33.2	99.6

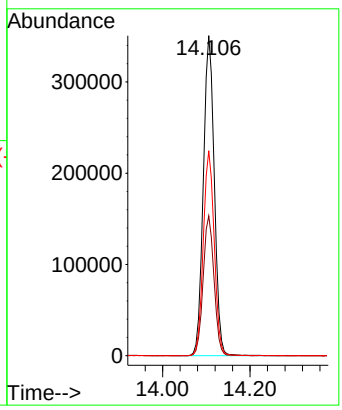




#91
1,2-Dichlorobenzene
Concen: 142.108 ug/l
RT: 14.105 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:146 Resp: 61317

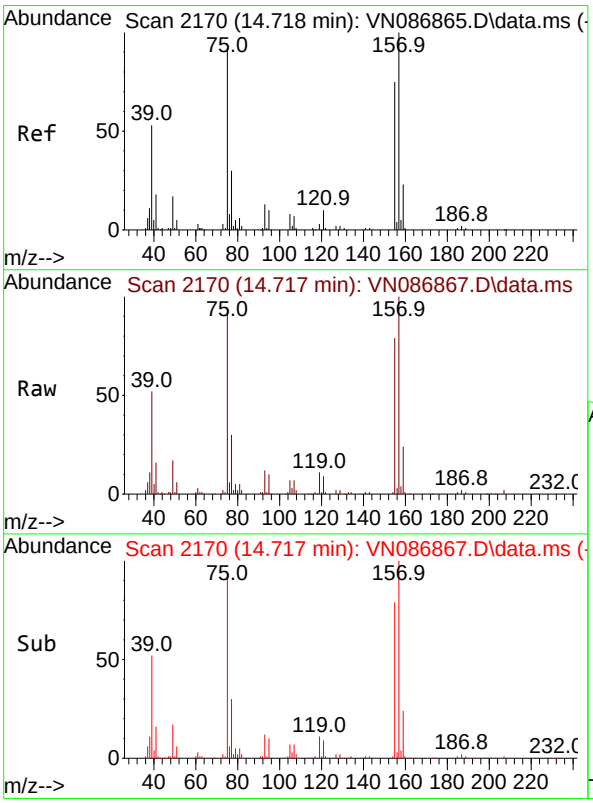
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.6	64.6
148	63.8	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

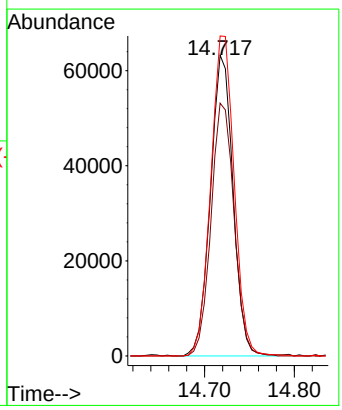
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

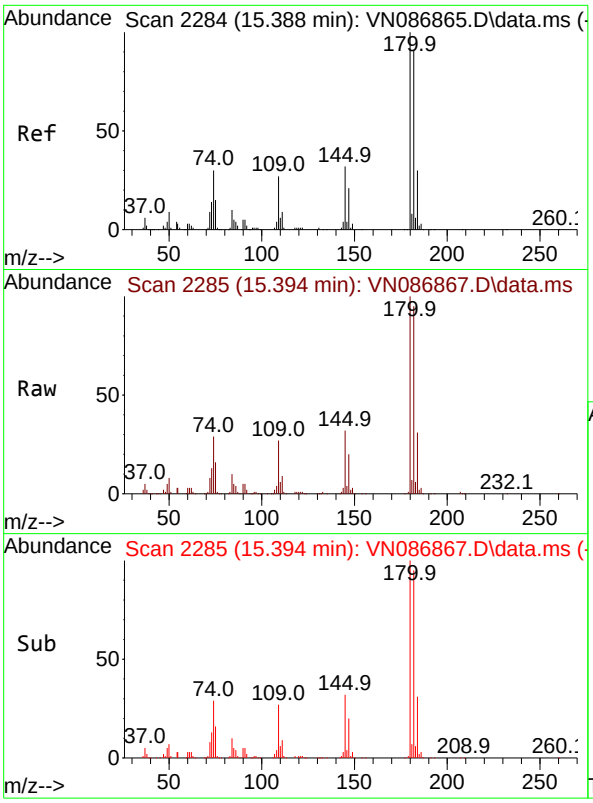


#92
1,2-Dibromo-3-Chloropropane
Concen: 137.242 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 75 Resp: 110677

Ion	Ratio	Lower	Upper
75	100		
155	85.5	41.1	123.4
157	110.2	52.7	158.1

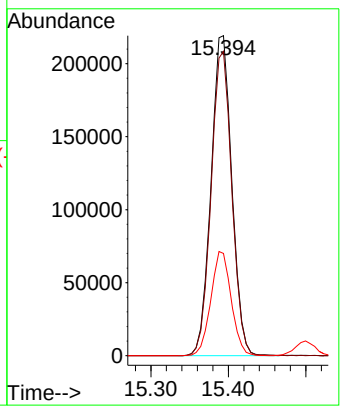




#93
1,2,4-Trichlorobenzene
Concen: 147.940 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:180 Resp: 40762

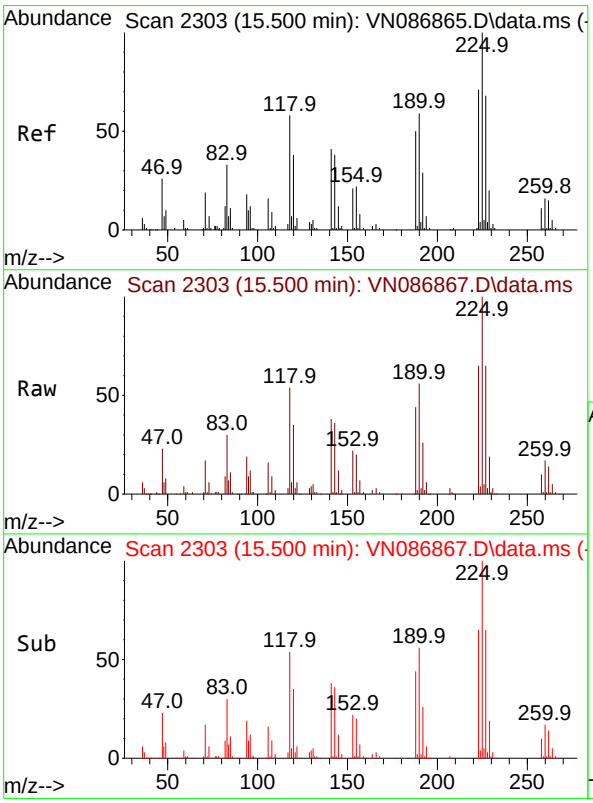
Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.9	140.7
145	32.0	16.0	47.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

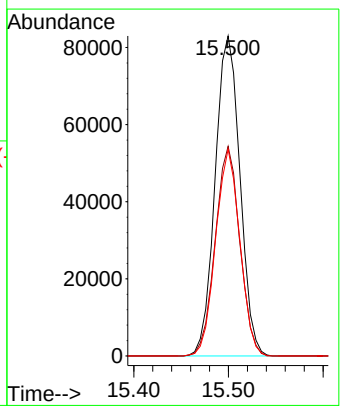
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

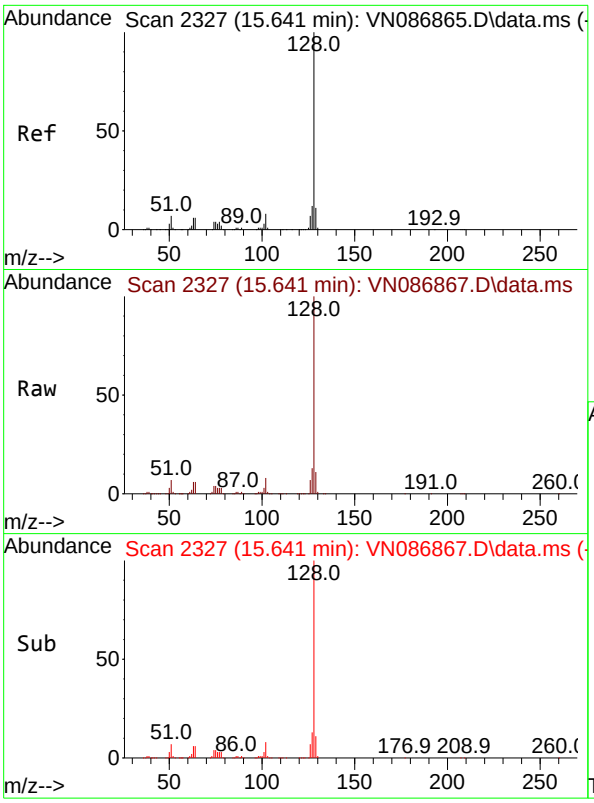


#94
Hexachlorobutadiene
Concen: 147.264 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:225 Resp: 151172

Ion	Ratio	Lower	Upper
225	100		
223	64.8	33.5	100.4
227	63.0	31.1	93.5

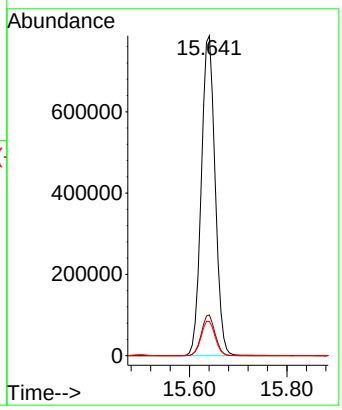




#95
Naphthalene
Concen: 150.743 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:128 Resp: 154598

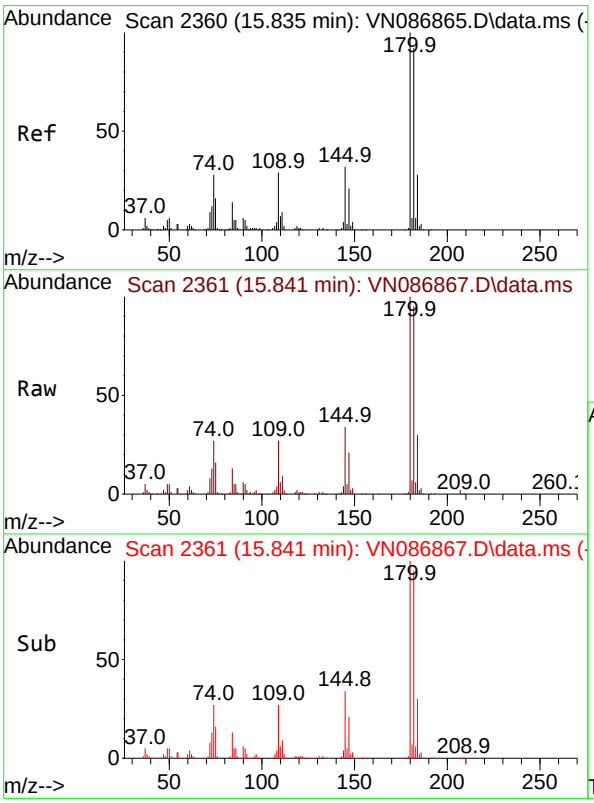
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

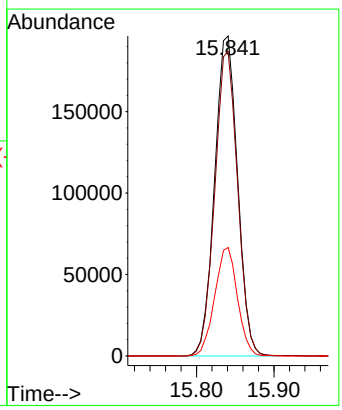
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 147.743 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:180 Resp: 404450

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.0	141.0
145	33.6	16.6	49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	218122	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	394140	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	348935	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	172710	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	152255	52.135	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.260%			
35) Dibromofluoromethane	8.177	113	127102	54.416	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.840%			
50) Toluene-d8	10.571	98	491265	53.129	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.260%			
62) 4-Bromofluorobenzene	12.847	95	185792	54.081	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.160%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	120237	55.286	ug/l	99
3) Chloromethane	2.401	50	139027	49.505	ug/l	99
4) Vinyl Chloride	2.554	62	151951	52.451	ug/l	99
5) Bromomethane	2.989	94	89638	55.292	ug/l	95
6) Chloroethane	3.154	64	95654	51.117	ug/l	96
7) Trichlorofluoromethane	3.524	101	196138	51.819	ug/l	97
8) Diethyl Ether	3.983	74	87405	53.001	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.395	101	127498	53.615	ug/l	99
10) Methyl Iodide	4.612	142	164080	53.227	ug/l	97
11) Tert butyl alcohol	5.542	59	207768	262.193	ug/l	99
12) 1,1-Dichloroethene	4.359	96	125461	51.678	ug/l	99
13) Acrolein	4.195	56	60336	240.545	ug/l	98
14) Allyl chloride	5.042	41	203344	50.504	ug/l	98
15) Acrylonitrile	5.736	53	479502	258.885	ug/l	100
16) Acetone	4.448	43	382146	246.750	ug/l	98
17) Carbon Disulfide	4.736	76	339466	50.550	ug/l	100
18) Methyl Acetate	5.042	43	234290	51.912	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	454641	51.720	ug/l	100
20) Methylene Chloride	5.295	84	143862	49.617	ug/l	97
21) trans-1,2-Dichloroethene	5.806	96	133535	49.437	ug/l	99
22) Diisopropyl ether	6.689	45	440080	51.853	ug/l	99
23) Vinyl Acetate	6.618	43	1828919	255.055	ug/l	99
24) 1,1-Dichloroethane	6.589	63	251473	51.487	ug/l	98
25) 2-Butanone	7.494	43	644194	255.897	ug/l	99
26) 2,2-Dichloropropane	7.500	77	216678	57.031	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	164985	51.073	ug/l	99
28) Bromochloromethane	7.824	49	108810	45.310	ug/l	99
29) Tetrahydrofuran	7.847	42	420891	256.656	ug/l	100
30) Chloroform	7.977	83	248429	50.933	ug/l	97
31) Cyclohexane	8.265	56	237836	50.212	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	209927	50.603	ug/l	97
36) 1,1-Dichloropropene	8.377	75	181414	52.123	ug/l	99
37) Ethyl Acetate	7.571	43	222090	50.125	ug/l	99
38) Carbon Tetrachloride	8.371	117	179281	52.466	ug/l	98
39) Methylcyclohexane	9.606	83	251231	52.686	ug/l	98
40) Benzene	8.612	78	579667	50.931	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.789	41	130903	52.607	ug/l		100
42) 1,2-Dichloroethane	8.677	62	177746	51.489	ug/l		100
43) Isopropyl Acetate	8.694	43	359378	50.536	ug/l		100
44) Trichloroethene	9.359	130	139763	51.788	ug/l		100
45) 1,2-Dichloropropane	9.624	63	142463	51.450	ug/l		99
46) Dibromomethane	9.712	93	97199	52.849	ug/l		98
47) Bromodichloromethane	9.894	83	196104	51.824	ug/l		100
48) Methyl methacrylate	9.688	41	168001	51.328	ug/l		98
49) 1,4-Dioxane	9.706	88	66102	1110.123	ug/l	#	99
51) 4-Methyl-2-Pentanone	10.447	43	1146622	267.835	ug/l		99
52) Toluene	10.635	92	361963	52.040	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	224839	53.137	ug/l		99
54) cis-1,3-Dichloropropene	10.318	75	237774	52.519	ug/l		99
55) 1,1,2-Trichloroethane	11.018	97	137998	51.562	ug/l		99
56) Ethyl methacrylate	10.882	69	241649	56.688	ug/l		98
57) 1,3-Dichloropropane	11.165	76	238572	51.386	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.165	63	625479	246.006	ug/l		100
59) 2-Hexanone	11.200	43	781717	283.478	ug/l		100
60) Dibromochloromethane	11.359	129	146749	52.627	ug/l		99
61) 1,2-Dibromoethane	11.471	107	142338	51.887	ug/l		99
64) Tetrachloroethene	11.106	164	111409	50.450	ug/l		98
65) Chlorobenzene	11.894	112	391661	50.892	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	129045	52.164	ug/l		99
67) Ethyl Benzene	11.965	91	683879	51.590	ug/l		98
68) m/p-Xylenes	12.071	106	527293	103.912	ug/l		98
69) o-Xylene	12.400	106	254600	52.387	ug/l		100
70) Styrene	12.412	104	438751	52.758	ug/l		99
71) Bromoform	12.582	173	100357	54.751	ug/l	#	99
73) Isopropylbenzene	12.694	105	652045	51.823	ug/l		100
74) N-amyl acetate	12.506	43	238355	54.212	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.941	83	220643	51.763	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	220957m	53.821	ug/l		
77) Bromobenzene	12.982	156	150950	52.313	ug/l		100
78) n-propylbenzene	13.035	91	801180	52.397	ug/l		100
79) 2-Chlorotoluene	13.123	91	473629	51.650	ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	548347	52.787	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	99341	55.702	ug/l		97
82) 4-Chlorotoluene	13.223	91	481403	51.884	ug/l		99
83) tert-Butylbenzene	13.441	119	499519	52.532	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	552333	53.024	ug/l		100
85) sec-Butylbenzene	13.618	105	723986	52.428	ug/l		100
86) p-Isopropyltoluene	13.729	119	606979	53.174	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	290810	51.224	ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	298412	51.557	ug/l		100
89) n-Butylbenzene	14.059	91	579636	52.424	ug/l		100
90) Hexachloroethane	14.335	117	102254	52.847	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	280025	51.340	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.723	75	50115	49.161	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	181064	51.986	ug/l		99
94) Hexachlorobutadiene	15.500	225	68570	52.843	ug/l		99
95) Naphthalene	15.641	128	674187	52.005	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	174888	50.539	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

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

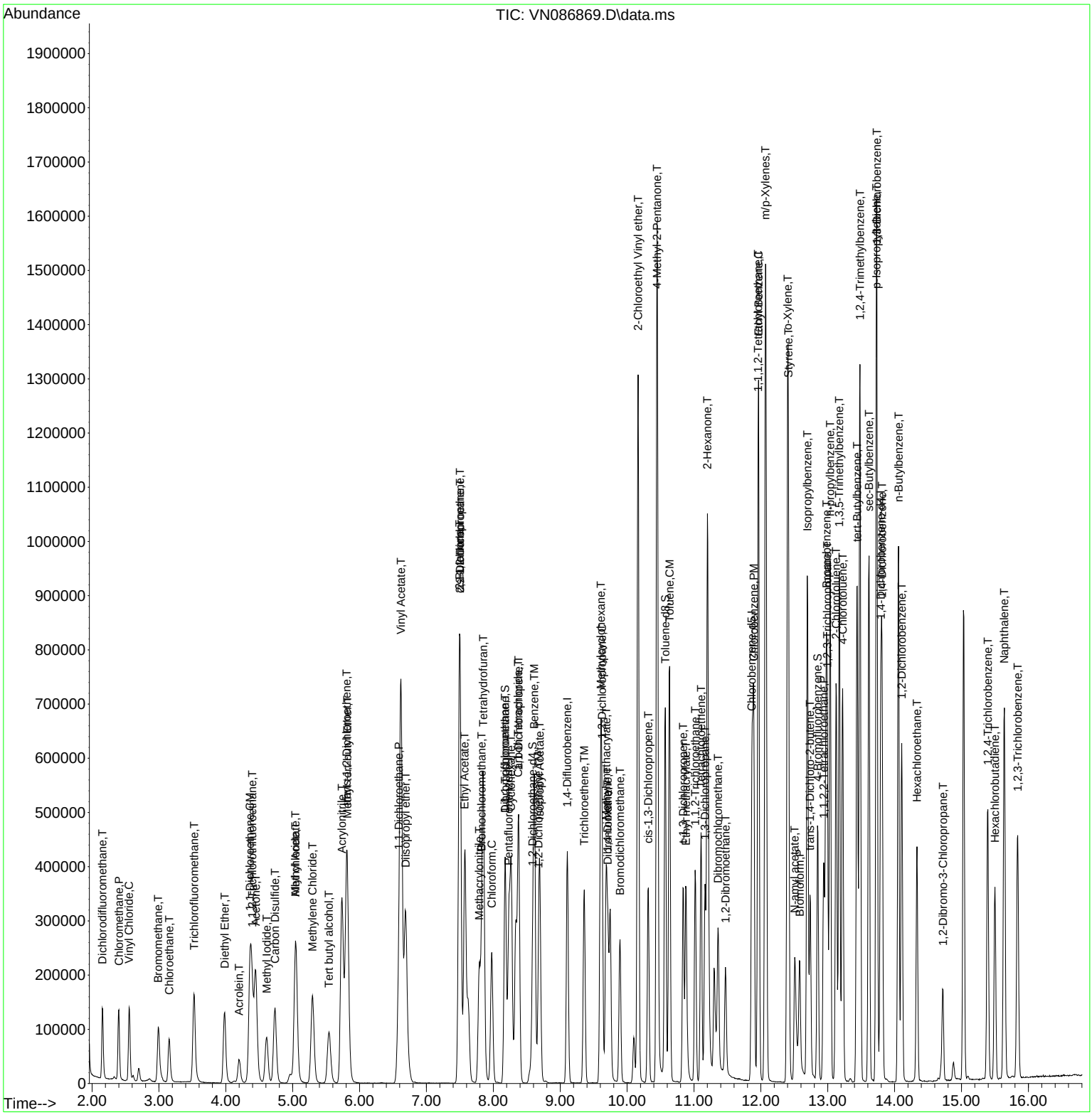
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

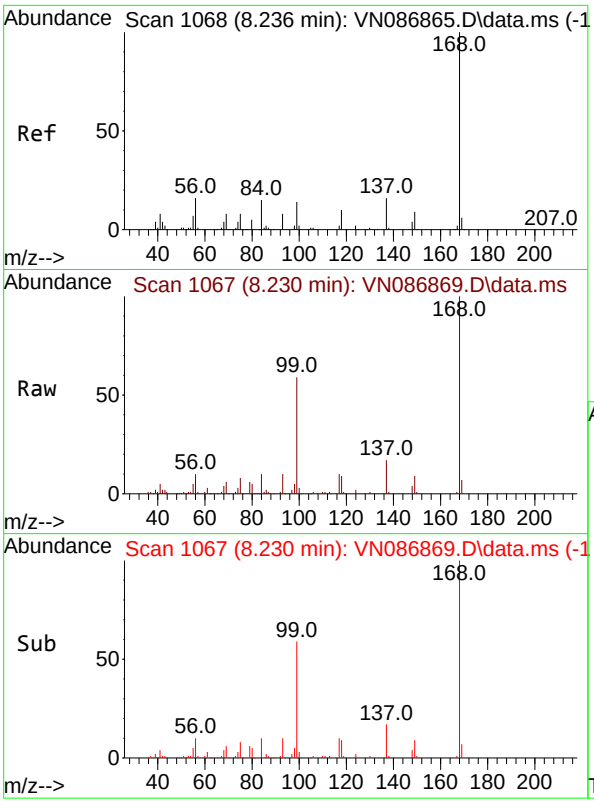
Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

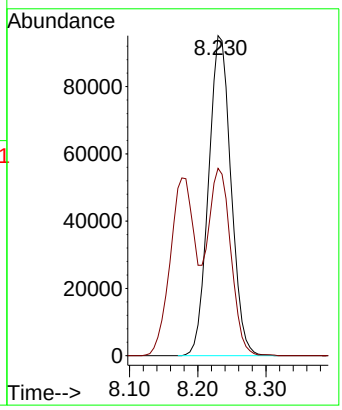




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:168 Resp: 21812

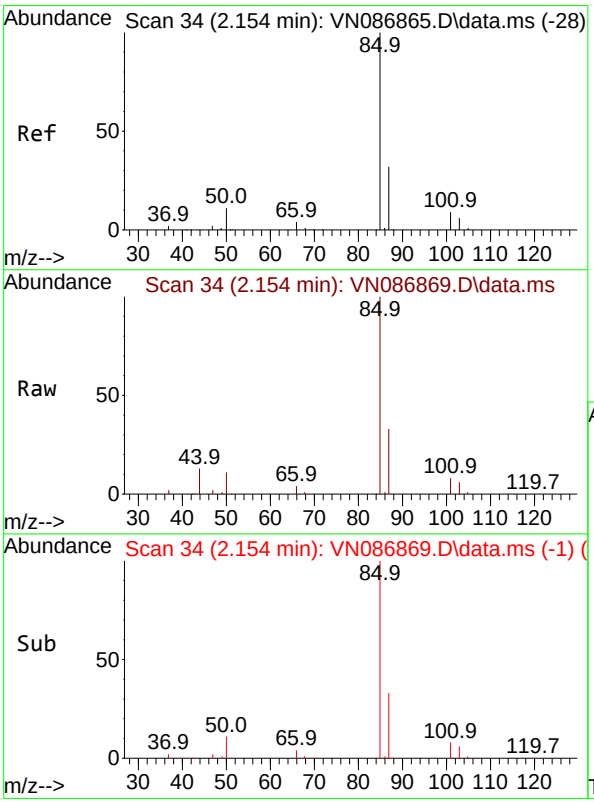
Ion	Ratio	Lower	Upper
168	100		
99	58.6	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

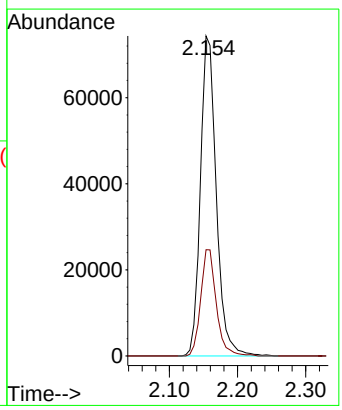
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

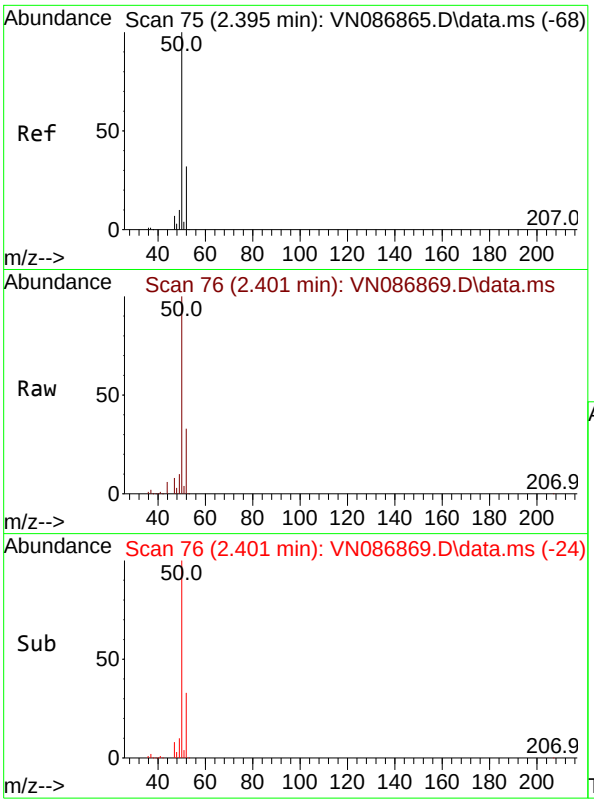


#2
Dichlorodifluoromethane
Concen: 55.286 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 85 Resp: 120237

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.2	48.6

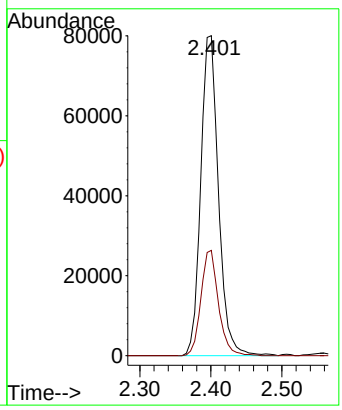




#3
Chloromethane
Concen: 49.505 ug/l
RT: 2.401 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 50 Resp: 13902

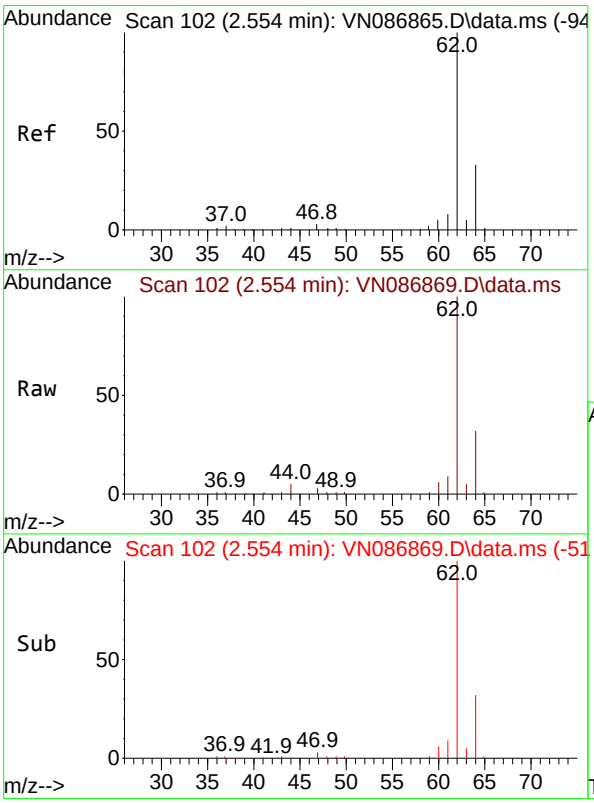
Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

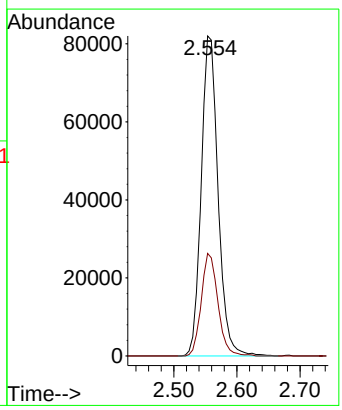
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

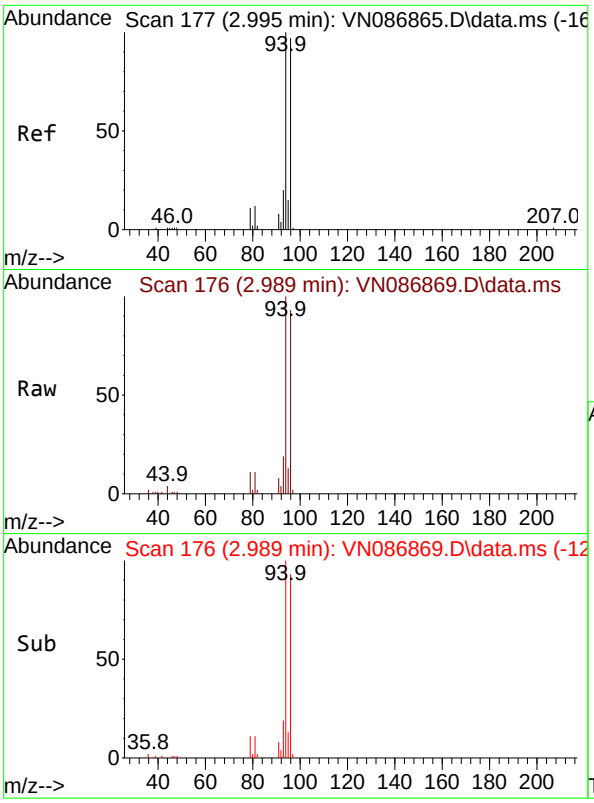


#4
Vinyl Chloride
Concen: 52.451 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 62 Resp: 151951

Ion	Ratio	Lower	Upper
62	100		
64	32.0	26.0	39.0

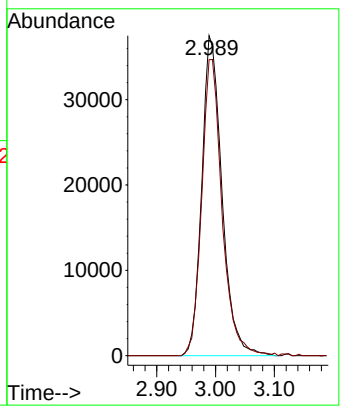




#5
Bromomethane
Concen: 55.292 ug/l
RT: 2.989 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 94 Resp: 8963

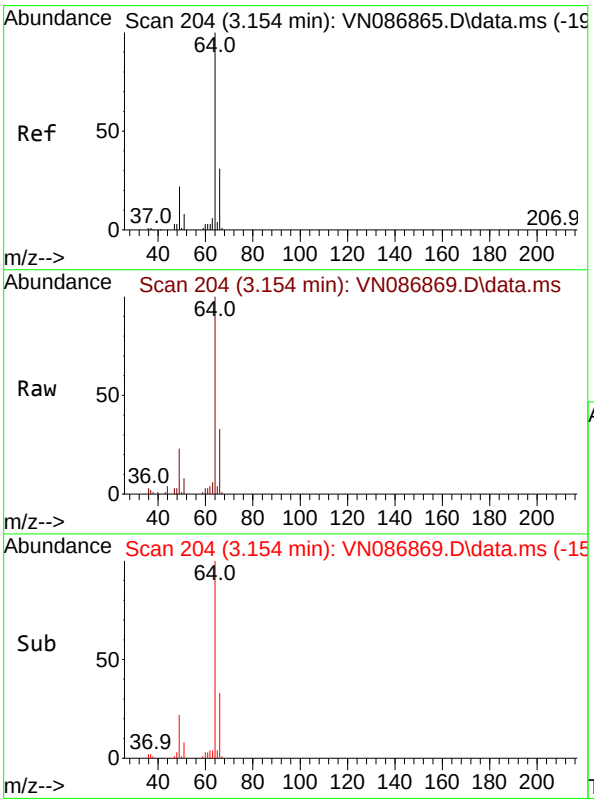
Ion	Ratio	Lower	Upper
94	100		
96	92.5	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

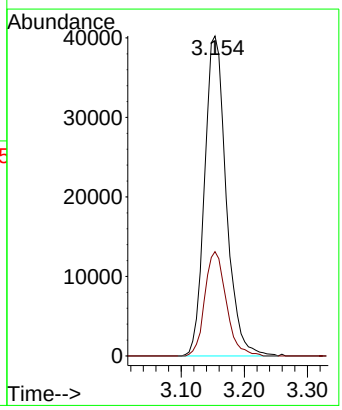
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

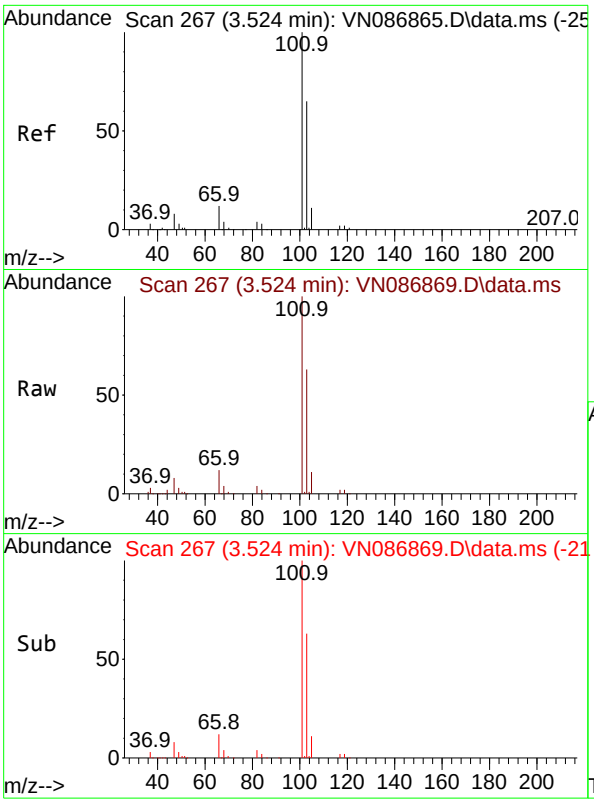


#6
Chloroethane
Concen: 51.117 ug/l
RT: 3.154 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 64 Resp: 95654

Ion	Ratio	Lower	Upper
64	100		
66	32.6	24.6	36.8

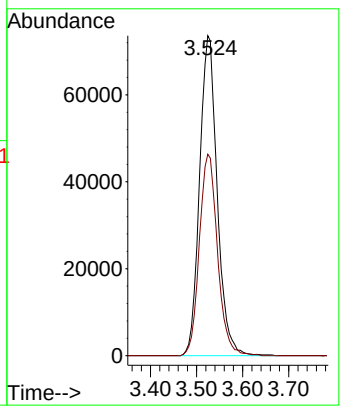




#7
Trichlorofluoromethane
Concen: 51.819 ug/l
RT: 3.524 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:101 Resp: 19613

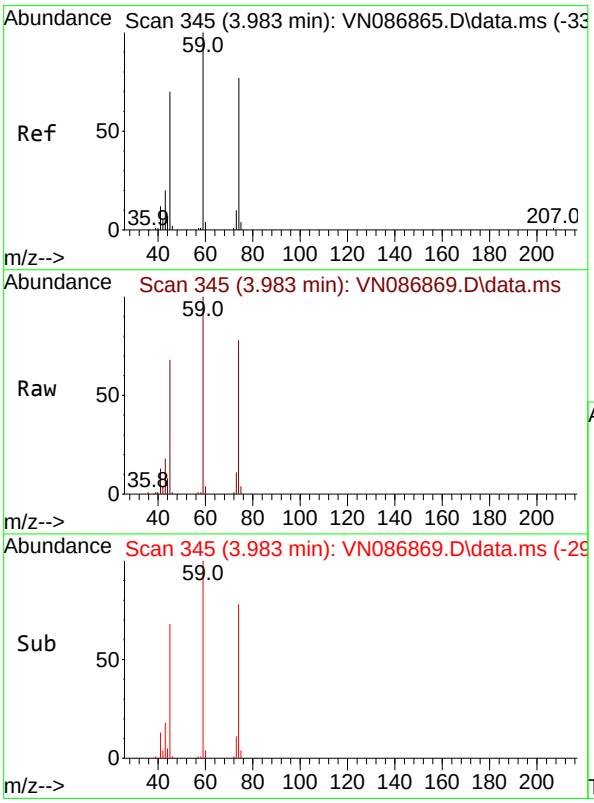
Ion	Ratio	Lower	Upper
101	100		
103	62.9	52.2	78.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

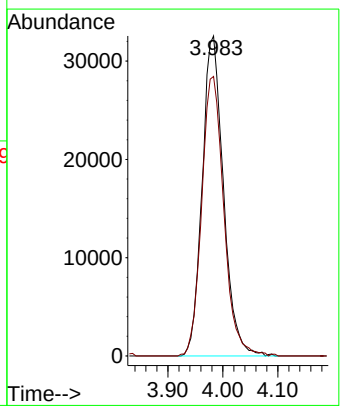
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

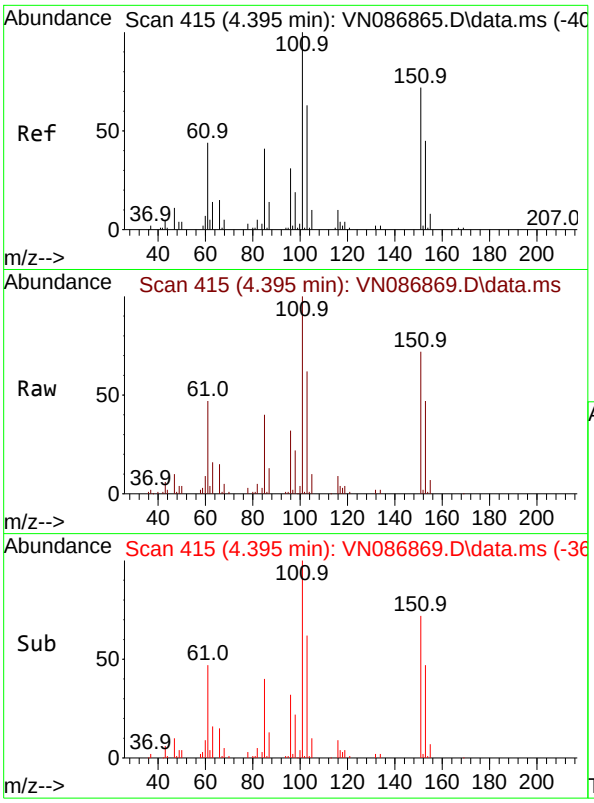


#8
Diethyl Ether
Concen: 53.001 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 74 Resp: 87405

Ion	Ratio	Lower	Upper
74	100		
45	90.9	45.5	136.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.615 ug/l
RT: 4.395 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

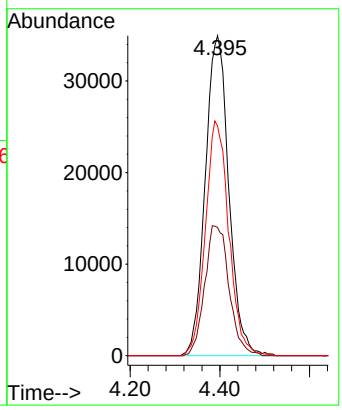
Tgt Ion:101 Resp: 12749

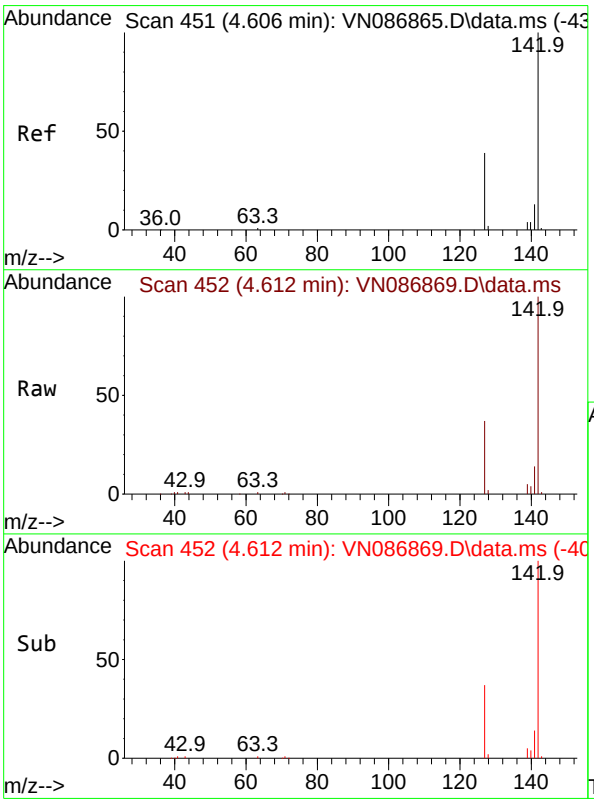
Ion	Ratio	Lower	Upper
101	100		
85	41.9	33.8	50.8
151	72.8	58.7	88.1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

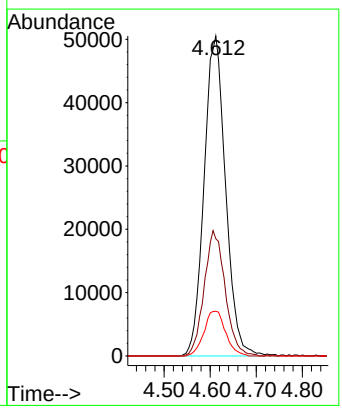


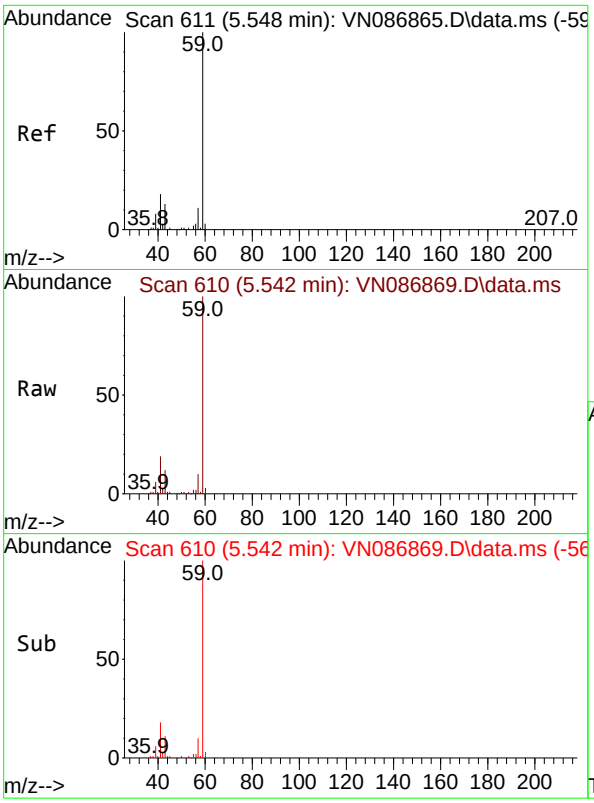


#10
Methyl Iodide
Concen: 53.227 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:142 Resp: 164080

Ion	Ratio	Lower	Upper
142	100		
127	36.6	30.9	46.3
141	14.0	10.4	15.6

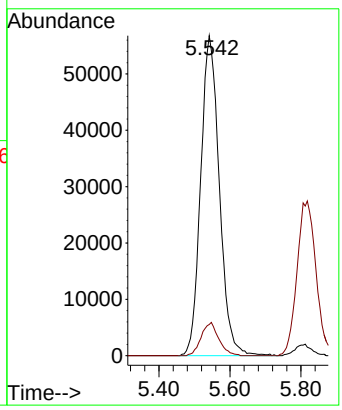




#11
Tert butyl alcohol
Concen: 262.193 ug/l
RT: 5.542 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 59 Resp: 20776

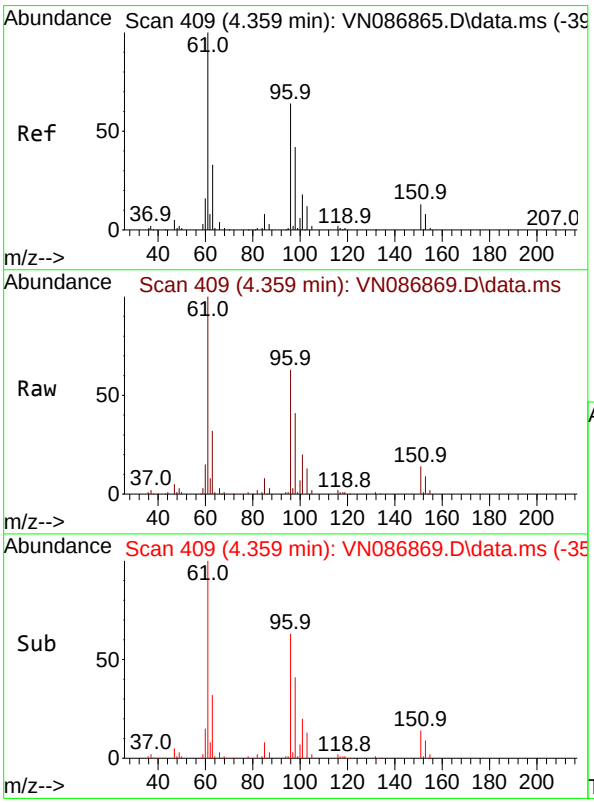
Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

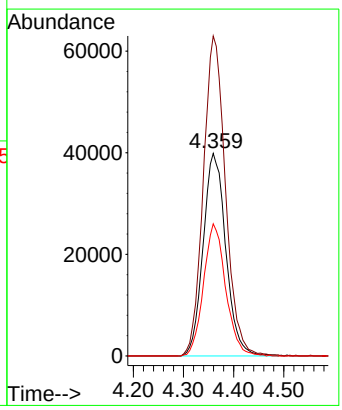
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

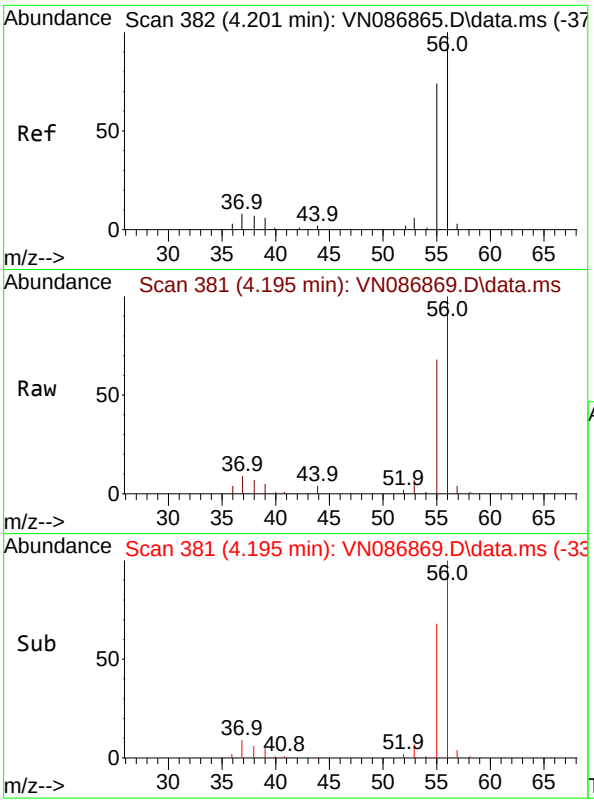


#12
1,1-Dichloroethene
Concen: 51.678 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 96 Resp: 125461

Ion	Ratio	Lower	Upper
96	100		
61	158.0	125.8	188.6
98	65.2	52.5	78.7

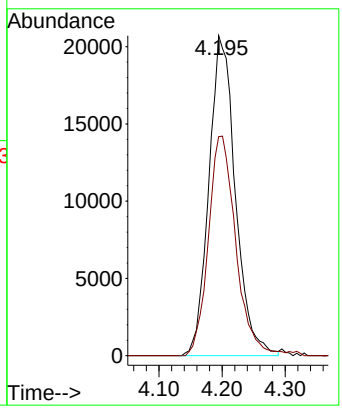




#13
Acrolein
Concen: 240.545 ug/l
RT: 4.195 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 56 Resp: 6033

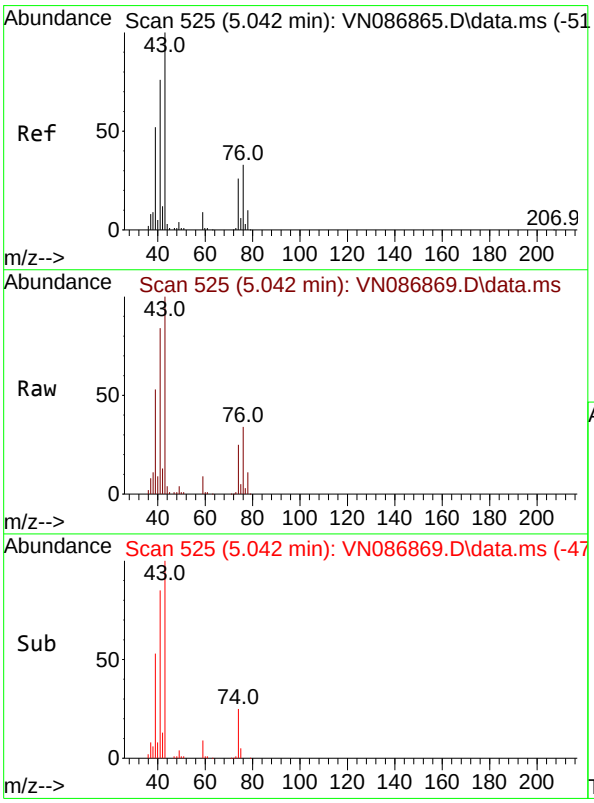
Ion	Ratio	Lower	Upper
56	100		
55	71.1	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

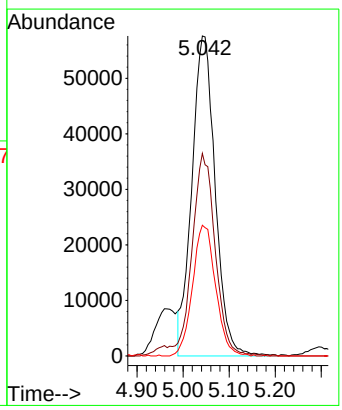
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

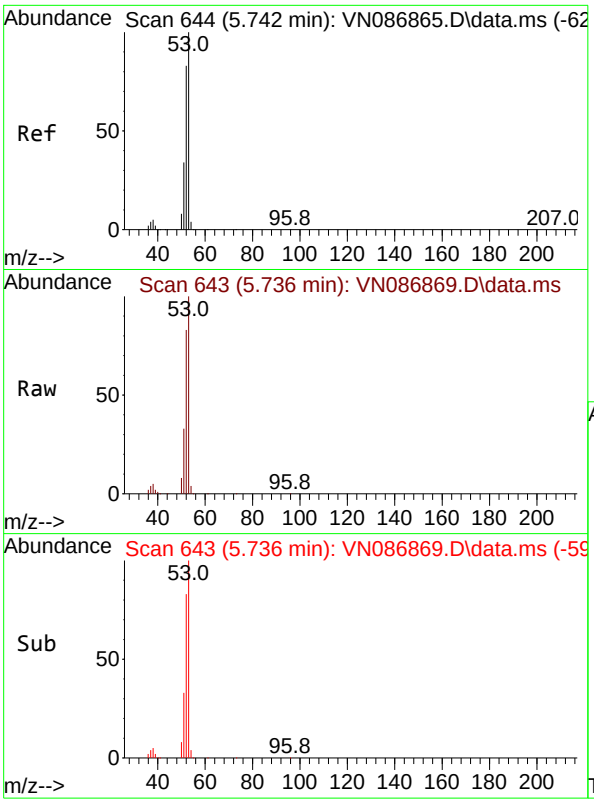


#14
Allyl chloride
Concen: 50.504 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 41 Resp: 203344

Ion	Ratio	Lower	Upper
41	100		
39	62.3	51.3	76.9
76	40.4	31.4	47.0

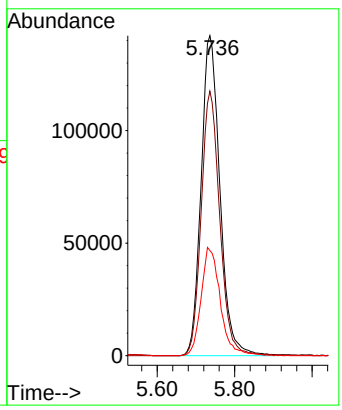




#15
Acrylonitrile
Concen: 258.885 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 53 Resp: 47950

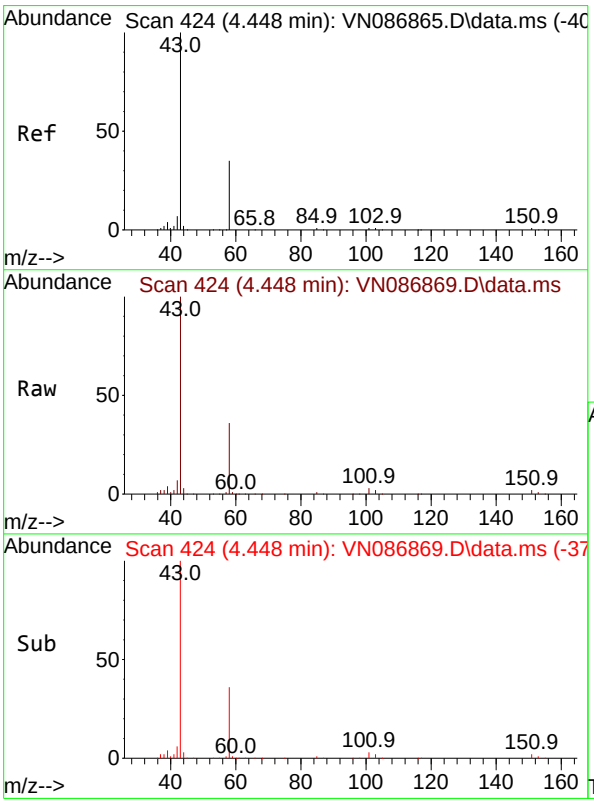
Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.0	97.6
51	34.5	27.2	40.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

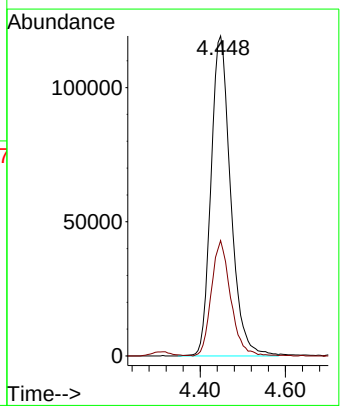
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

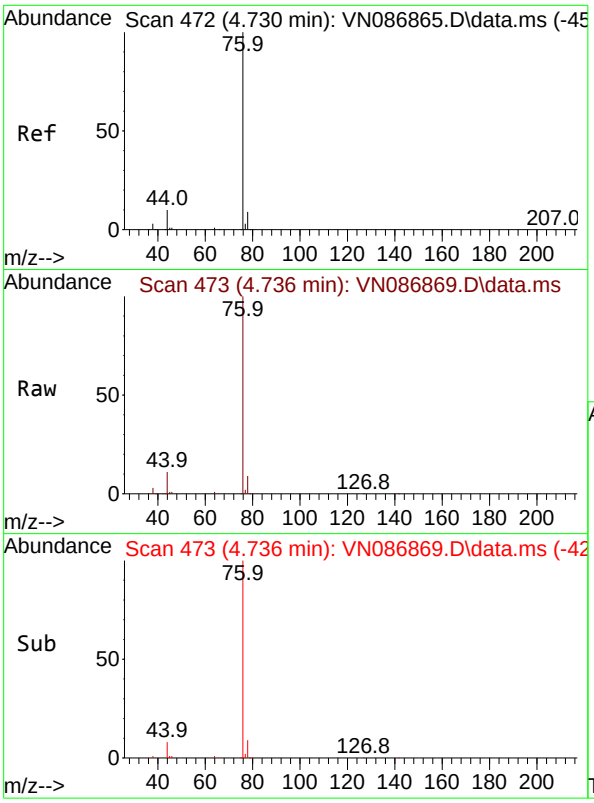


#16
Acetone
Concen: 246.750 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 43 Resp: 382146

Ion	Ratio	Lower	Upper
43	100		
58	35.9	28.0	42.0

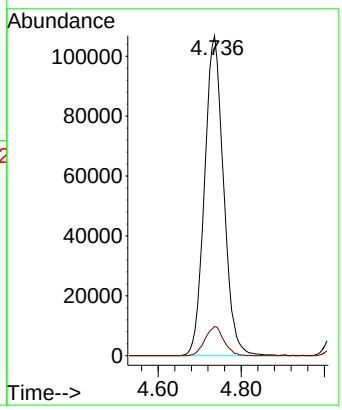




#17
Carbon Disulfide
Concen: 50.550 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 76 Resp: 33946

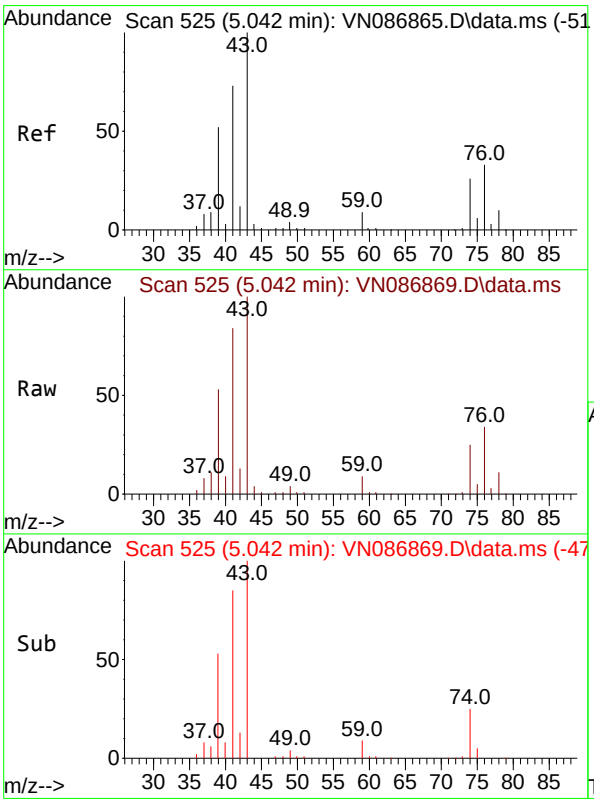
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

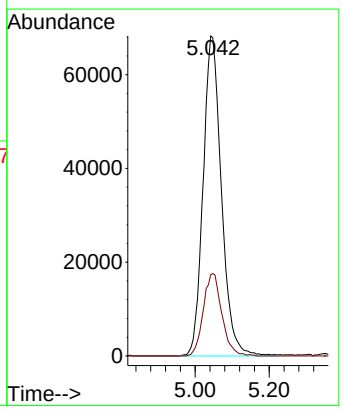
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

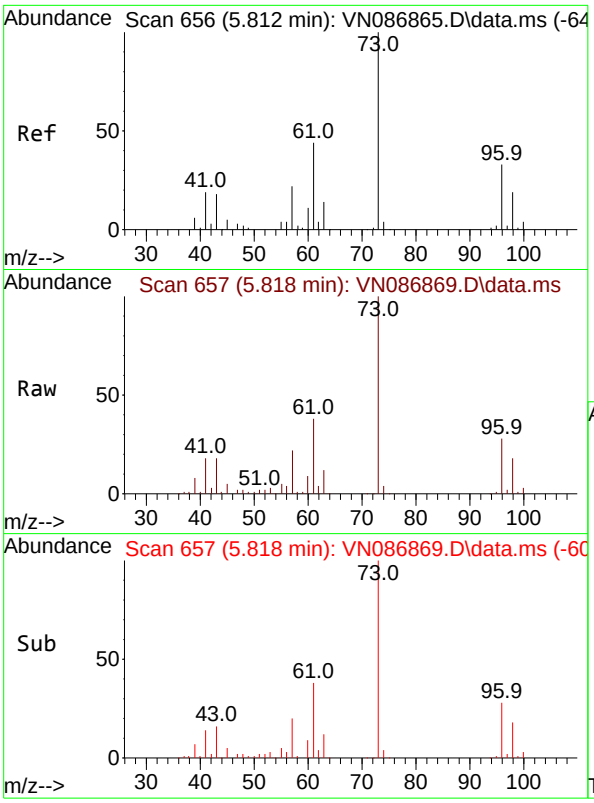


#18
Methyl Acetate
Concen: 51.912 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 43 Resp: 234290

Ion	Ratio	Lower	Upper
43	100		
74	25.9	20.7	31.1

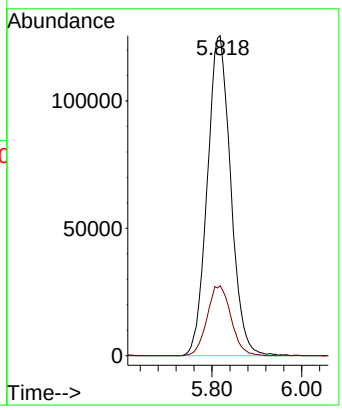




#19
Methyl tert-butyl Ether
Concen: 51.720 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 73 Resp: 45464

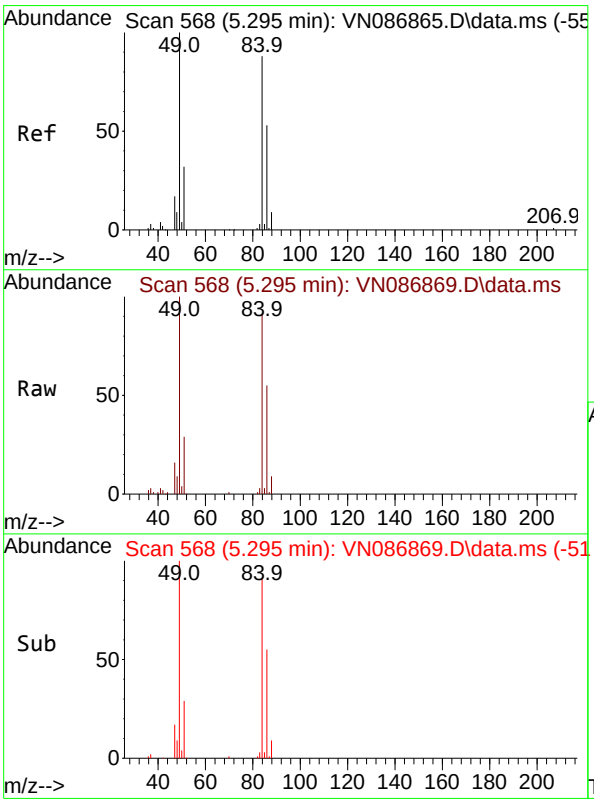
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

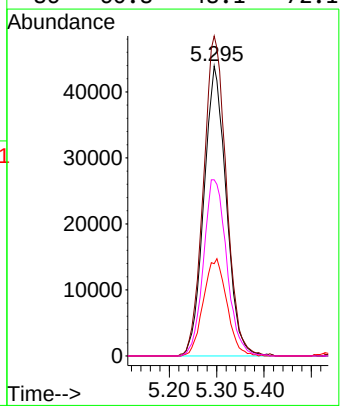
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

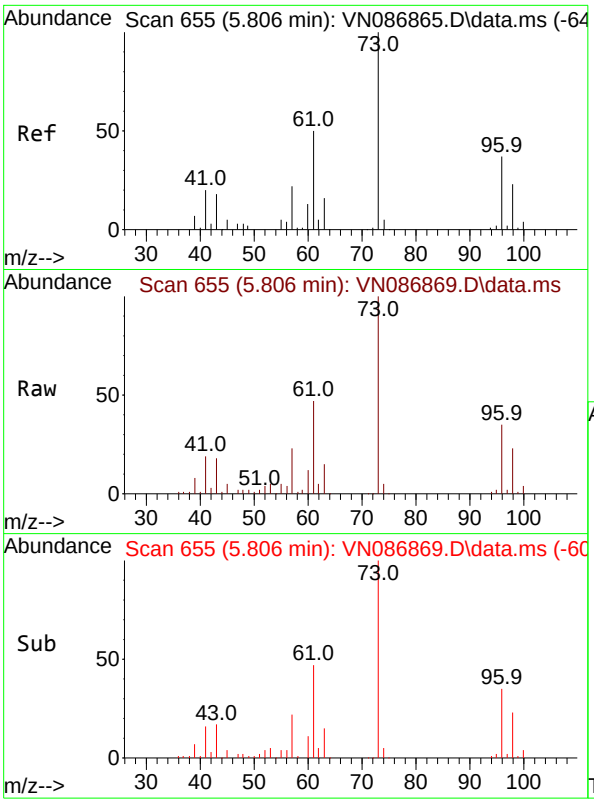


#20
Methylene Chloride
Concen: 49.617 ug/l
RT: 5.295 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 84 Resp: 143862

Ion	Ratio	Lower	Upper
84	100		
49	110.3	90.5	135.7
51	31.8	28.5	42.7
86	60.8	48.1	72.1

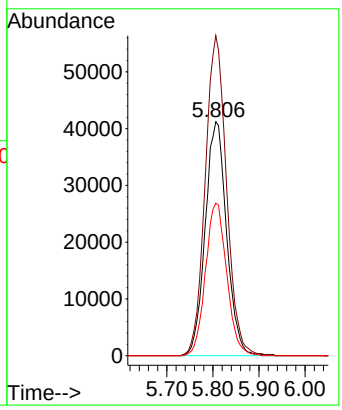




#21
trans-1,2-Dichloroethene
Concen: 49.437 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 96 Resp: 13353

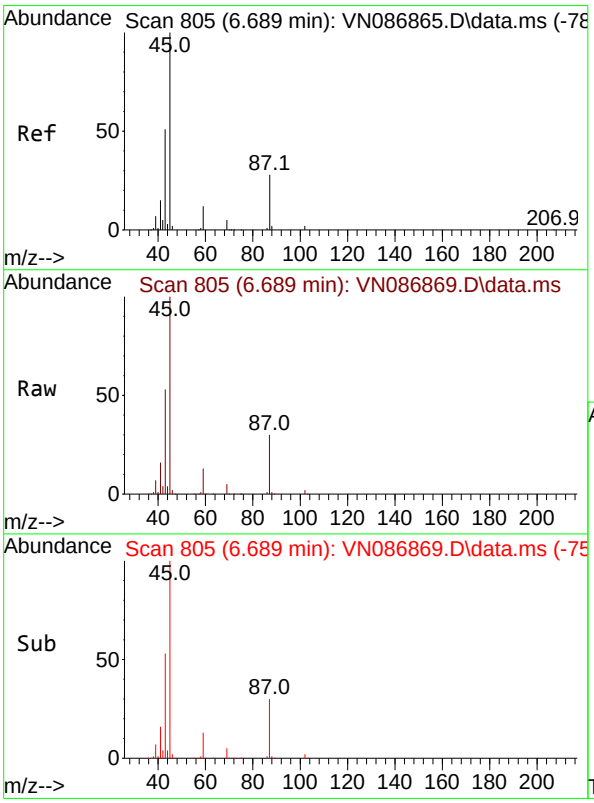
Ion	Ratio	Lower	Upper
96	100		
61	136.8	109.2	163.8
98	65.2	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

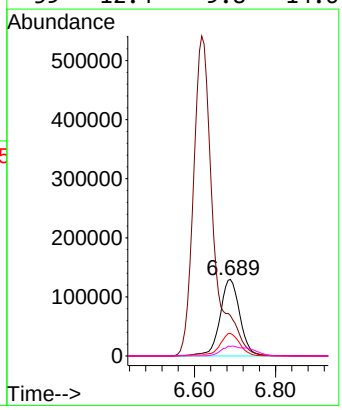
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

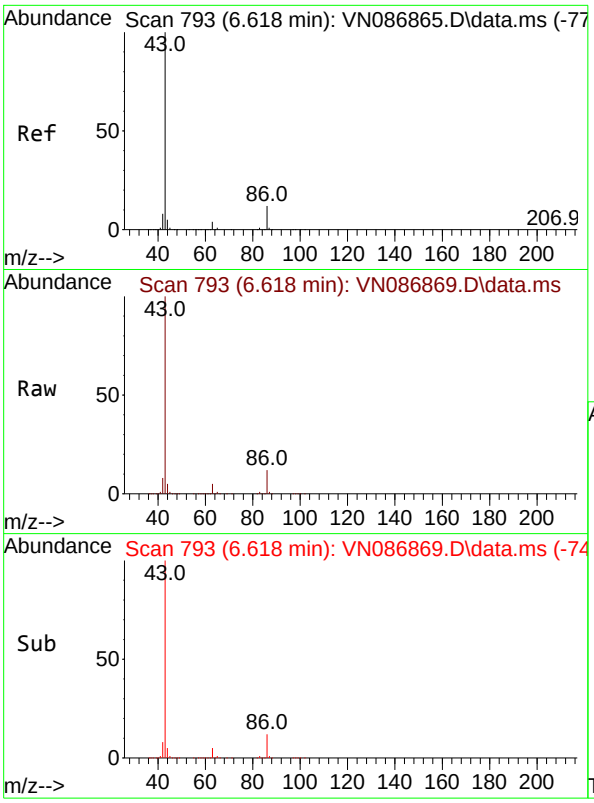


#22
Diisopropyl ether
Concen: 51.853 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 45 Resp: 440080

Ion	Ratio	Lower	Upper
45	100		
43	52.4	41.9	62.9
87	29.5	22.4	33.6
59	12.4	9.8	14.6

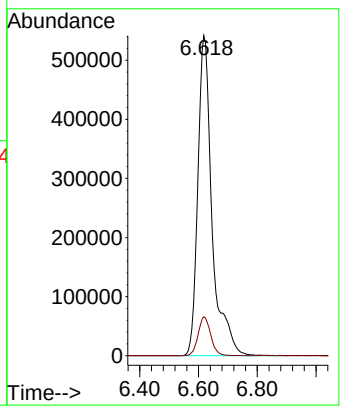




#23
Vinyl Acetate
Concen: 255.055 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 43 Resp: 182891

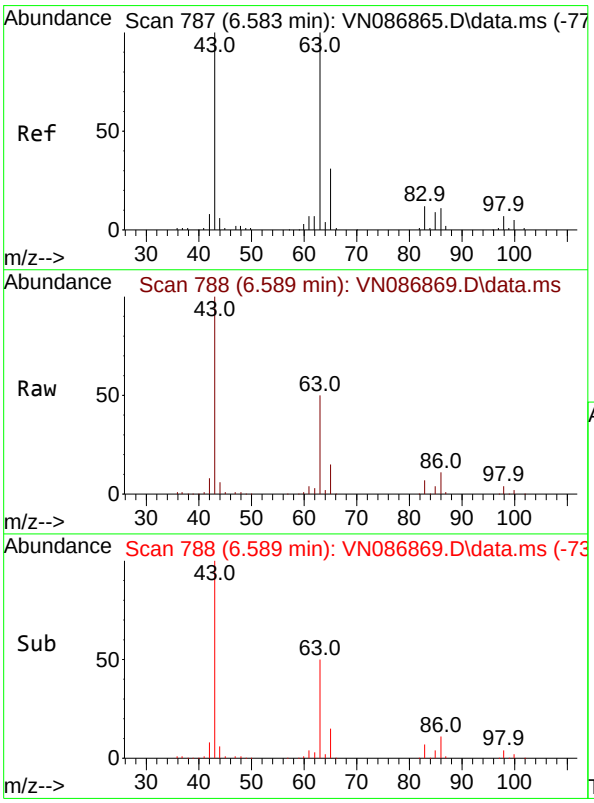
Ion	Ratio	Lower	Upper
43	100		
86	12.1	9.5	14.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

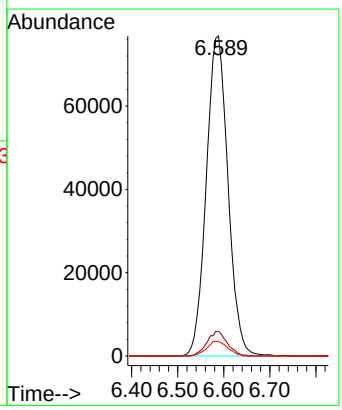
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

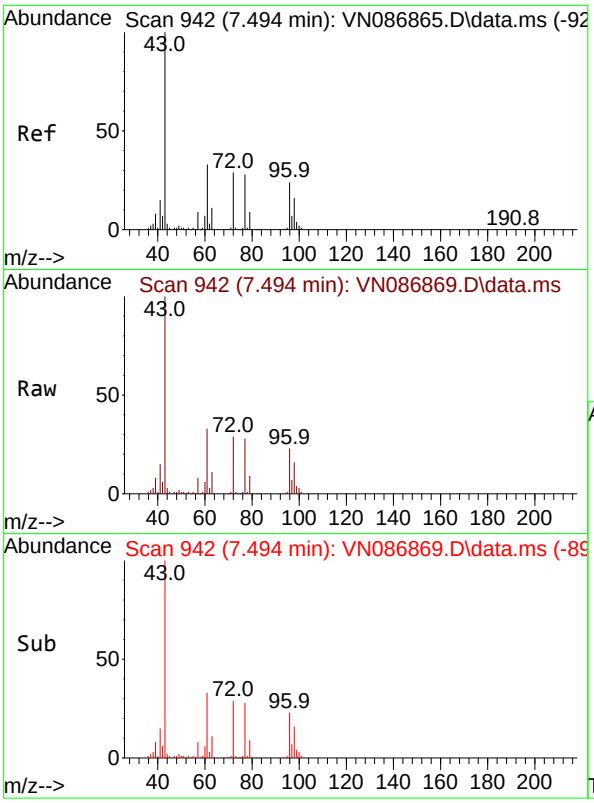


#24
1,1-Dichloroethane
Concen: 51.487 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 63 Resp: 251473

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.6	10.8
100	4.6	2.6	7.8





#25
2-Butanone
Concen: 255.897 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

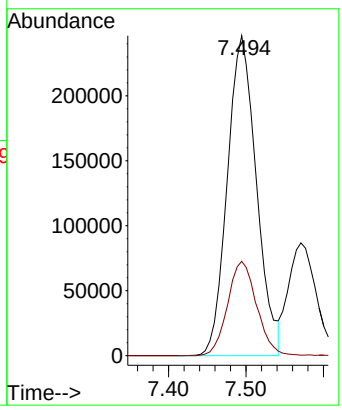
Tgt Ion: 43 Resp: 64419

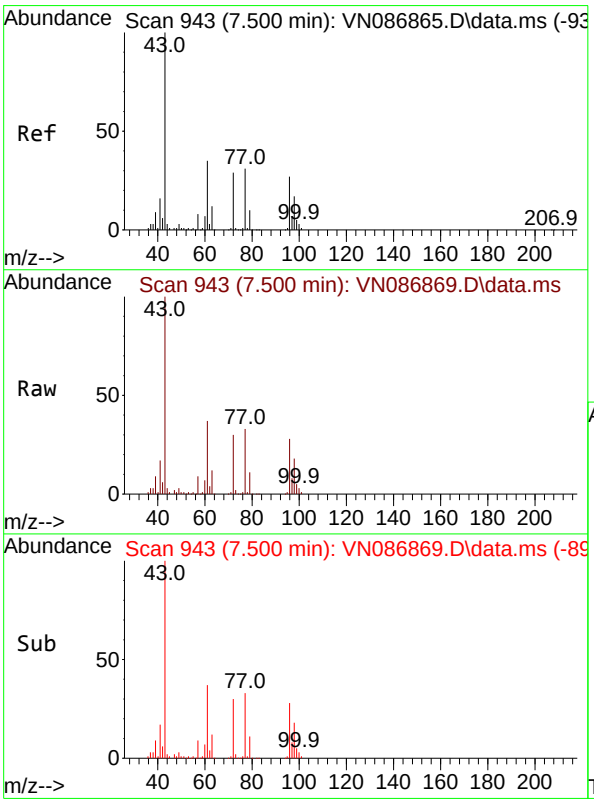
Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

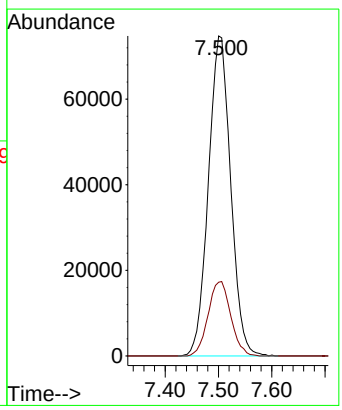


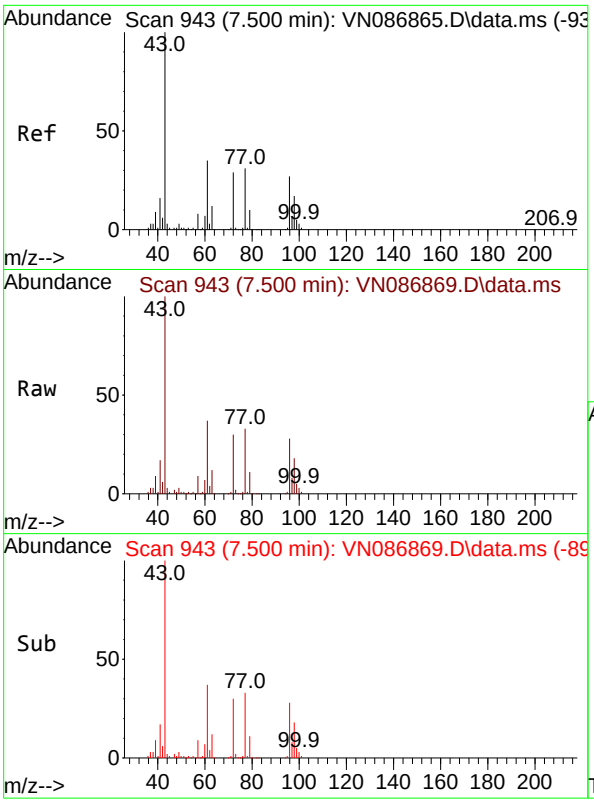


#26
2,2-Dichloropropane
Concen: 57.031 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 77 Resp: 216678

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.6	34.7

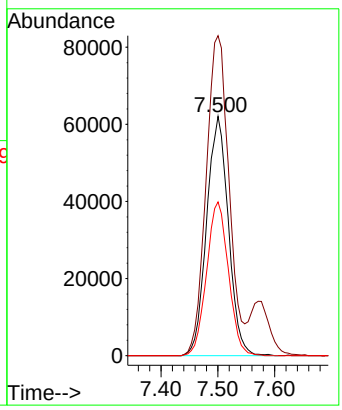




#27
cis-1,2-Dichloroethene
Concen: 51.073 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 96 Resp: 16498

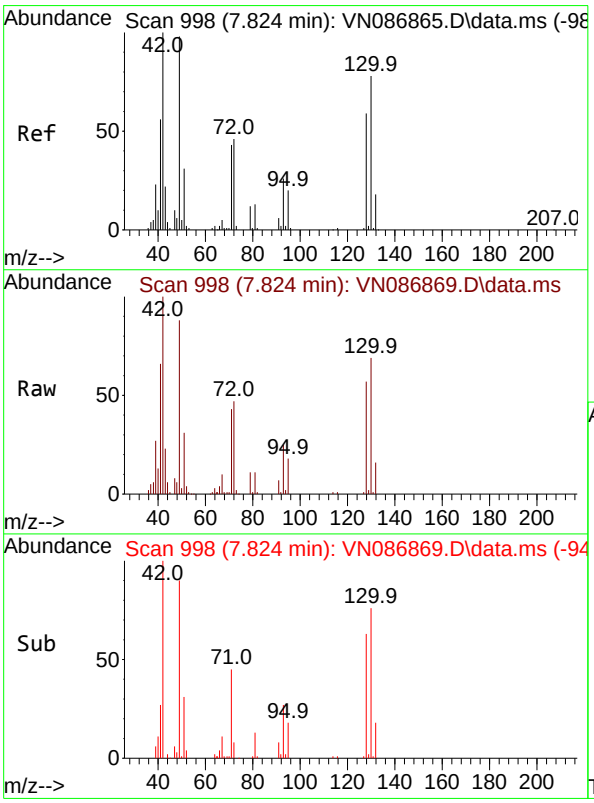
Ion	Ratio	Lower	Upper
96	100		
61	140.3	0.0	278.0
98	64.5	0.0	128.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

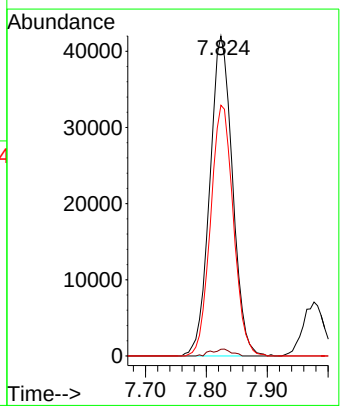
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

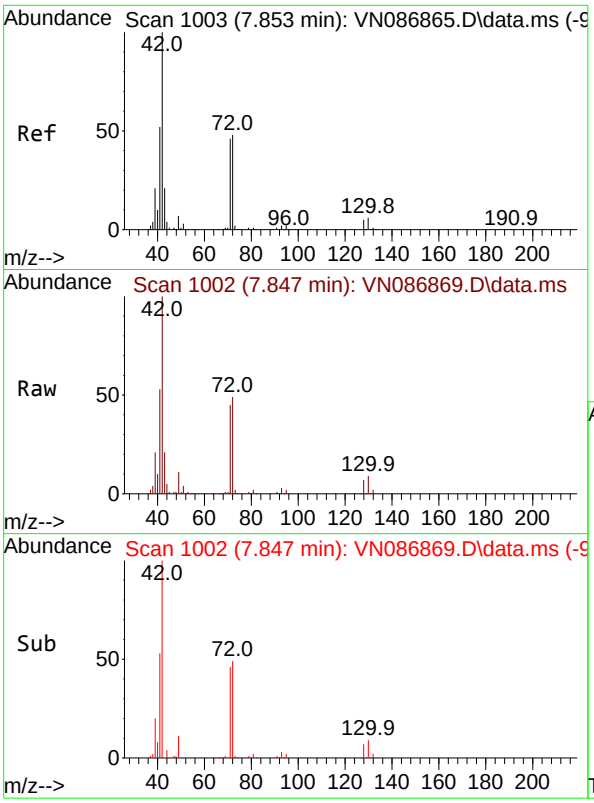


#28
Bromochloromethane
Concen: 45.310 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 49 Resp: 108810

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	78.5	62.2	93.2





#29
Tetrahydrofuran
Concen: 256.656 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

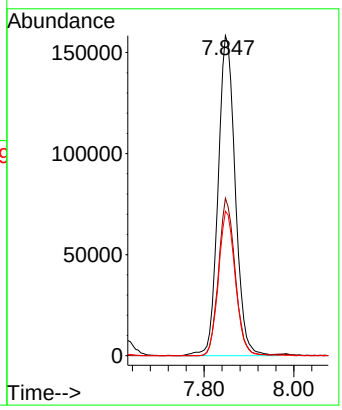
Tgt Ion: 42 Resp: 42089

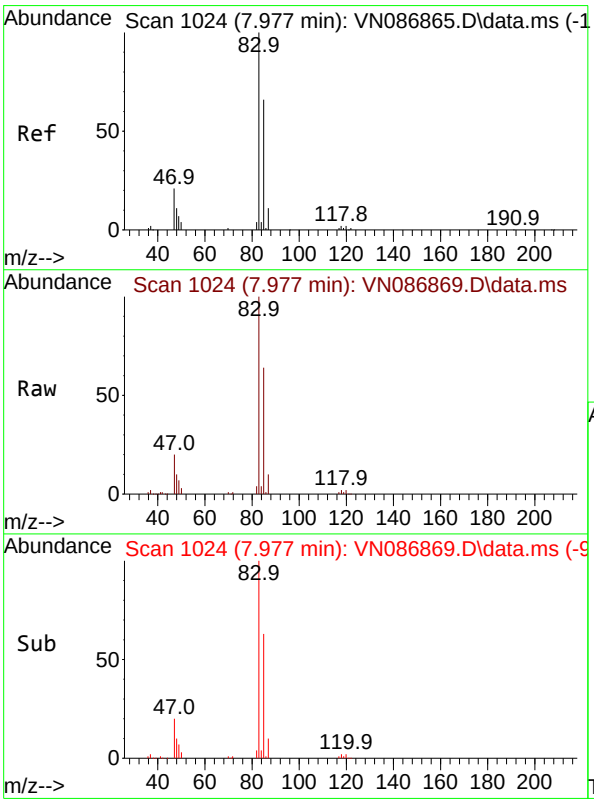
Ion	Ratio	Lower	Upper
42	100		
72	47.5	37.8	56.6
71	44.5	35.6	53.4

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

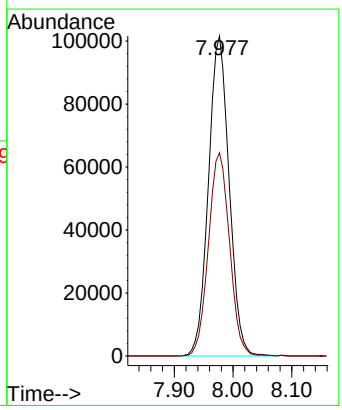


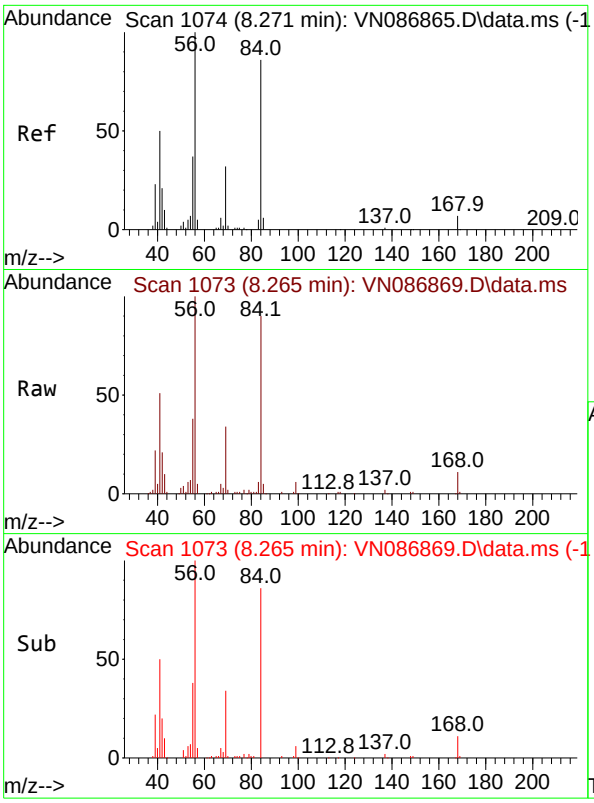


#30
Chloroform
Concen: 50.933 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 83 Resp: 248429

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.9	79.3

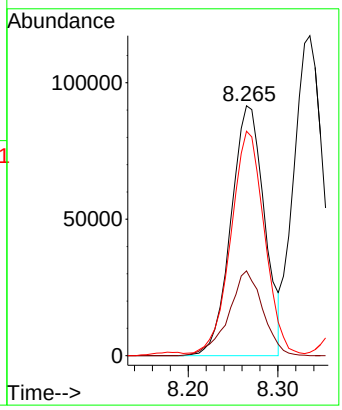




#31
Cyclohexane
Concen: 50.212 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 56 Resp: 23783

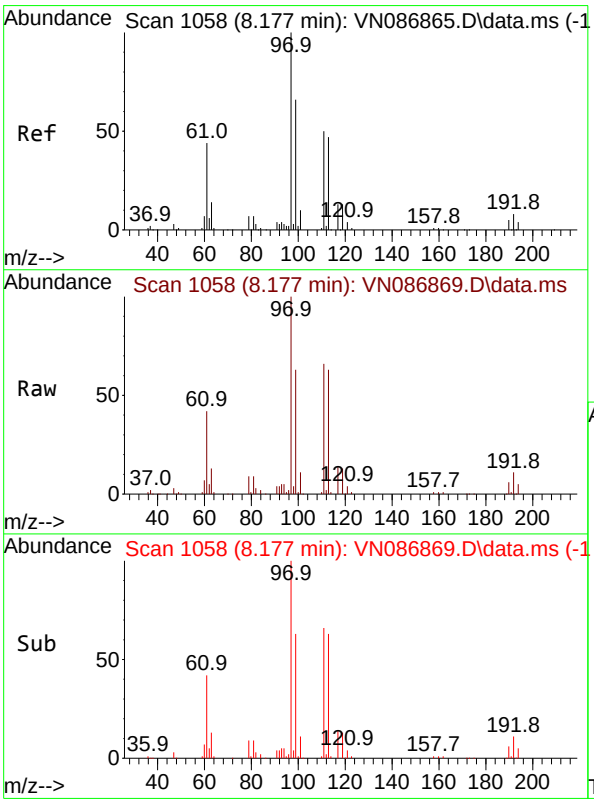
Ion	Ratio	Lower	Upper
56	100		
69	33.9	25.4	38.0
84	88.4	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

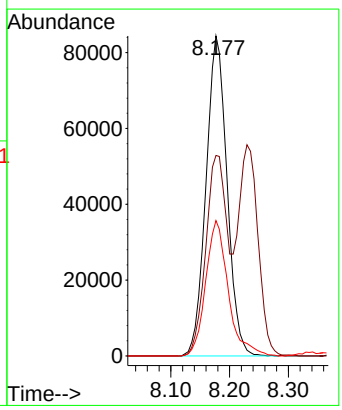
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

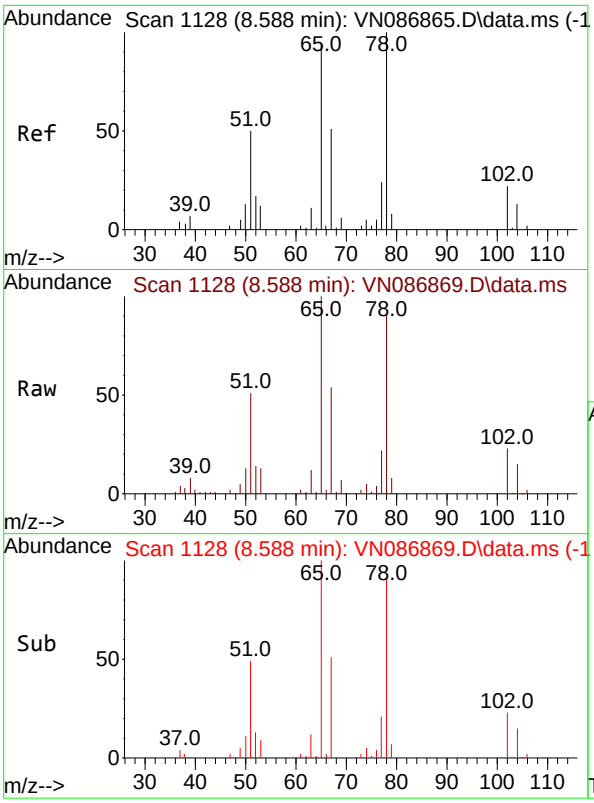


#32
1,1,1-Trichloroethane
Concen: 50.603 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 97 Resp: 209927

Ion	Ratio	Lower	Upper
97	100		
99	61.7	52.0	78.0
61	45.4	35.9	53.9

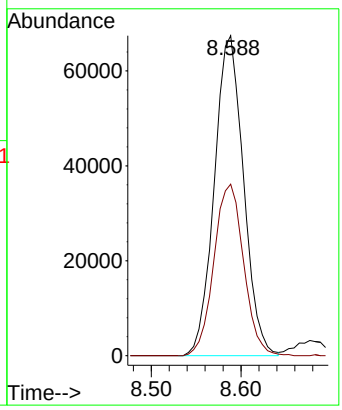




#33
1,2-Dichloroethane-d4
Concen: 52.135 ug/l
RT: 8.588 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 65 Resp: 15225

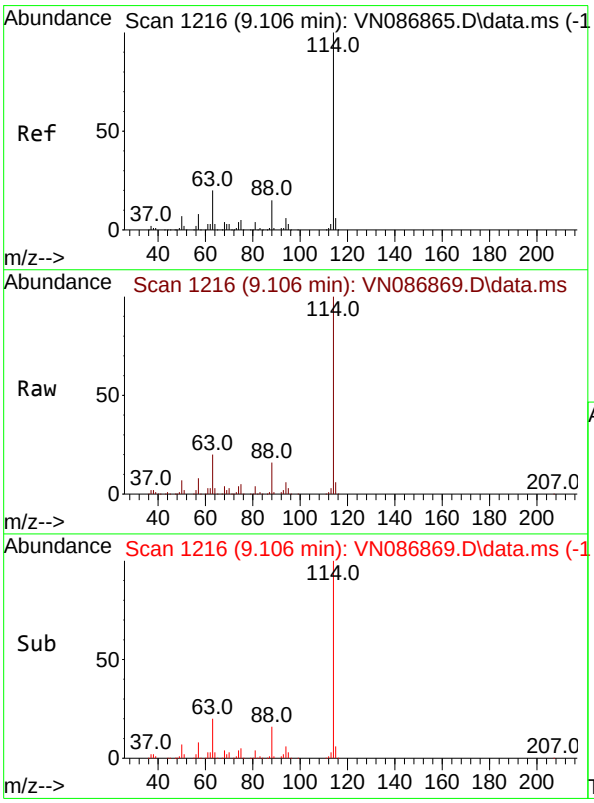
Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

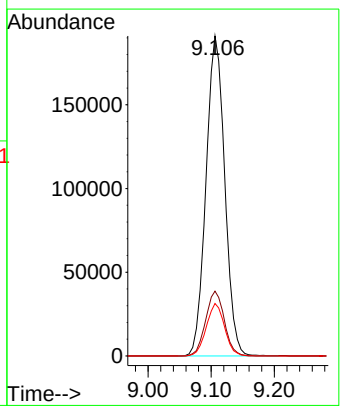
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

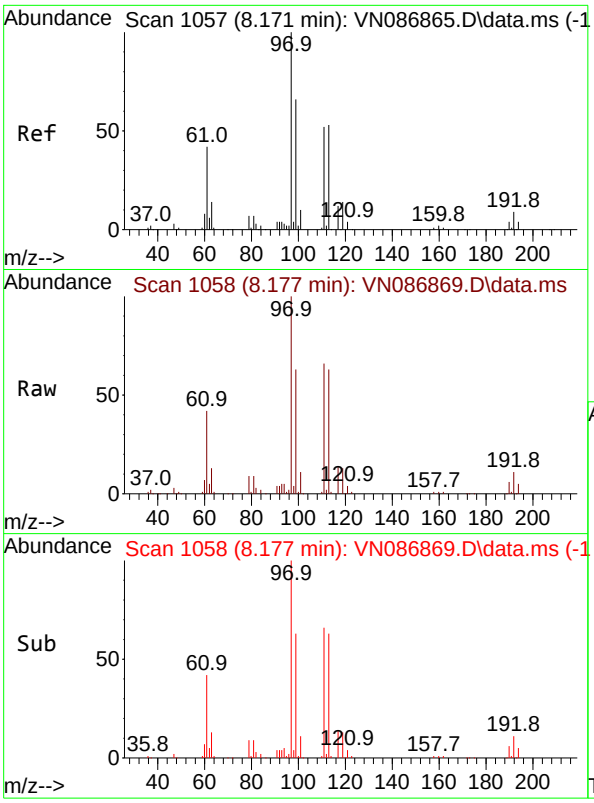


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:114 Resp: 394140

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	39.6
88	16.4	0.0	30.2

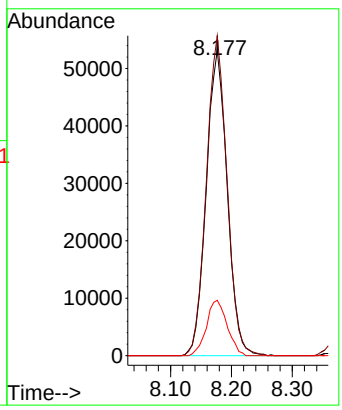




#35
Dibromofluoromethane
Concen: 54.416 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:113 Resp: 12710

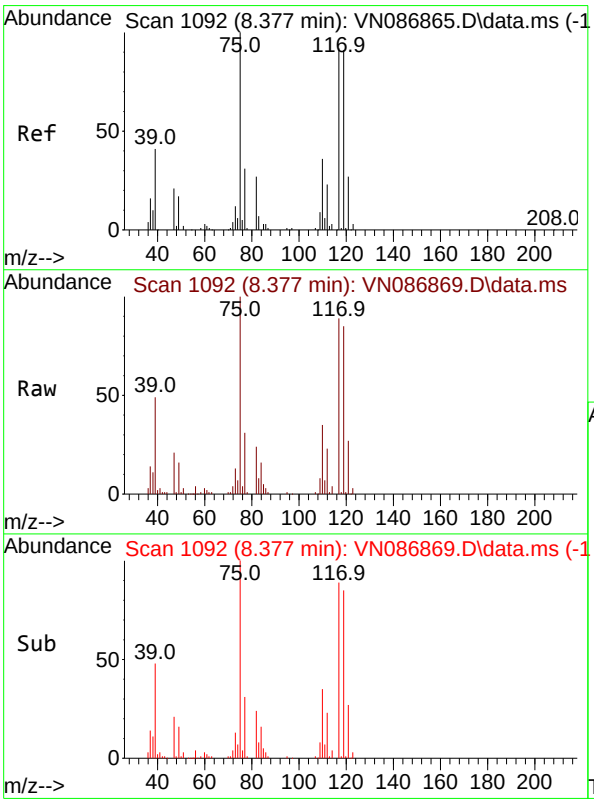
Ion	Ratio	Lower	Upper
113	100		
111	103.4	84.2	126.2
192	18.0	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

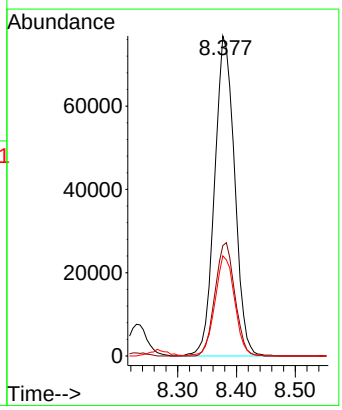
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

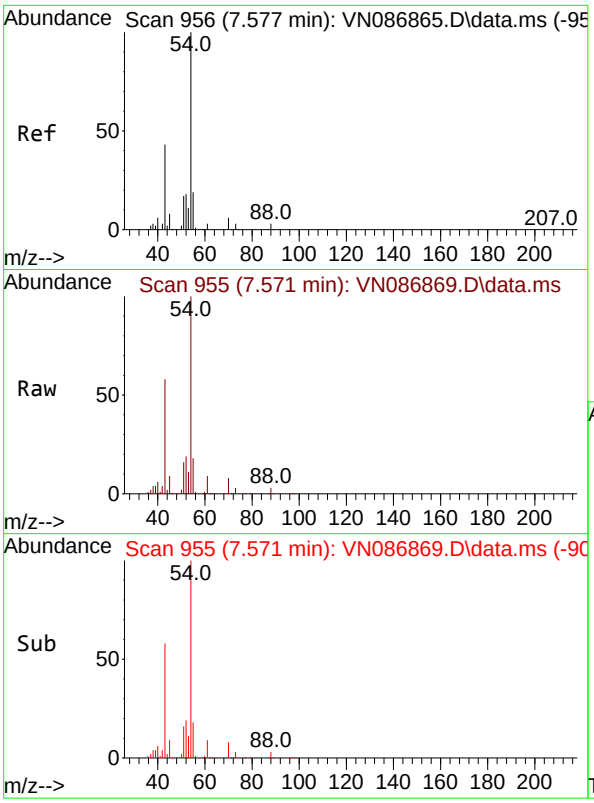


#36
1,1-Dichloropropene
Concen: 52.123 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 75 Resp: 181414

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.6	52.9
77	31.0	25.3	37.9

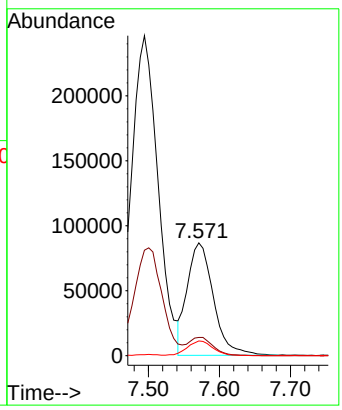




#37
Ethyl Acetate
Concen: 50.125 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 43 Resp: 22209

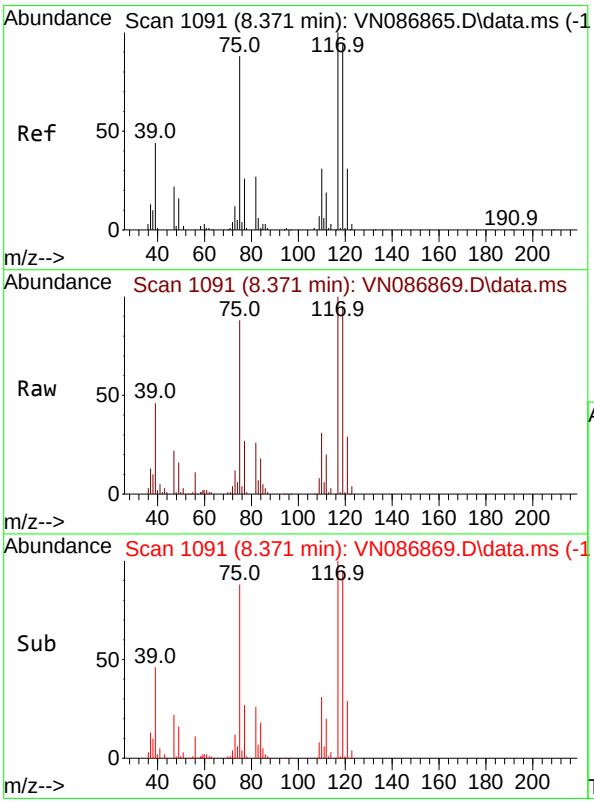
Ion	Ratio	Lower	Upper
43	100		
61	15.6	12.1	18.1
70	12.9	9.8	14.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

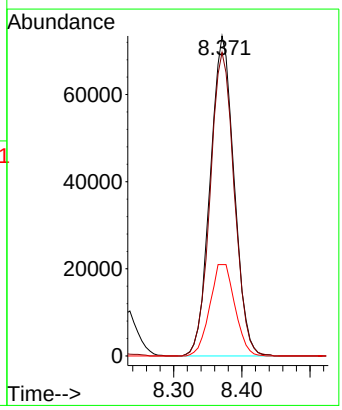
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

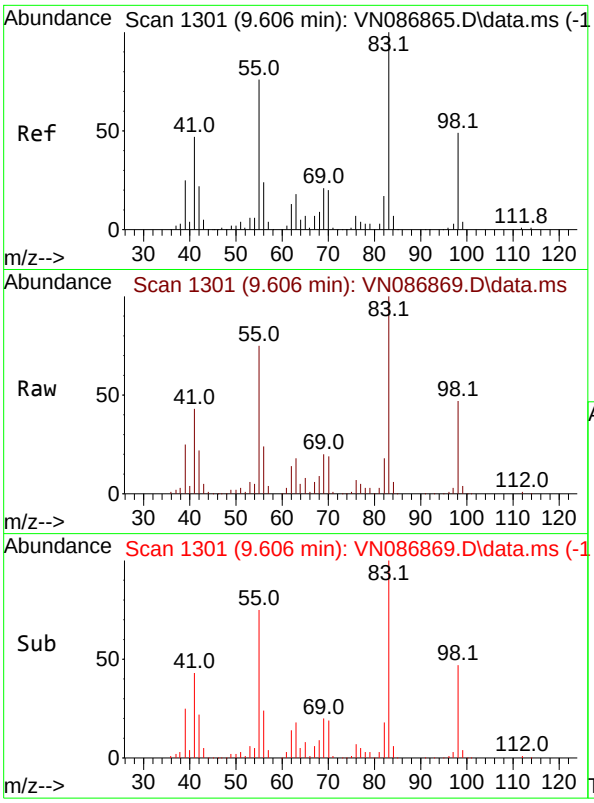


#38
Carbon Tetrachloride
Concen: 52.466 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:117 Resp: 179281

Ion	Ratio	Lower	Upper
117	100		
119	94.8	75.0	112.6
121	28.5	24.9	37.3

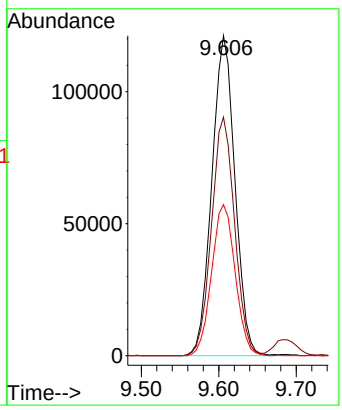




#39
Methylcyclohexane
Concen: 52.686 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 83 Resp: 25123

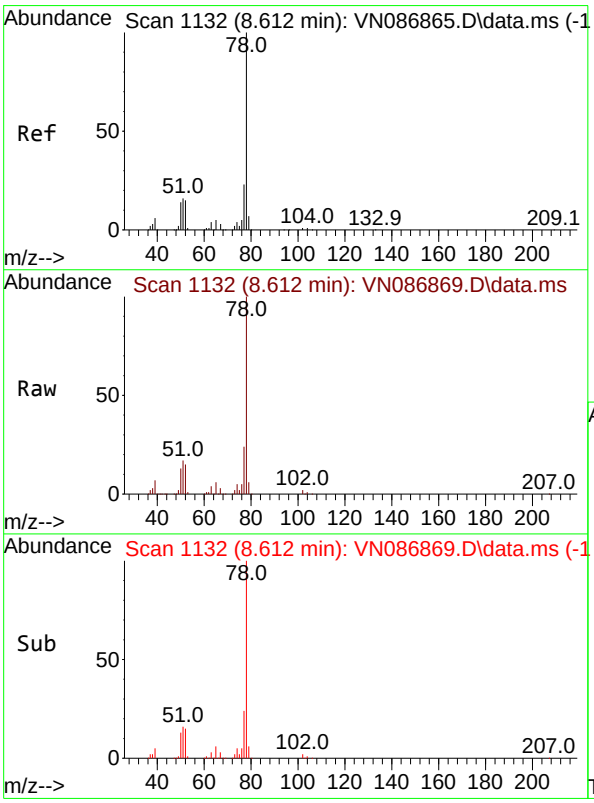
Ion	Ratio	Lower	Upper
83	100		
55	74.5	61.0	91.6
98	47.2	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

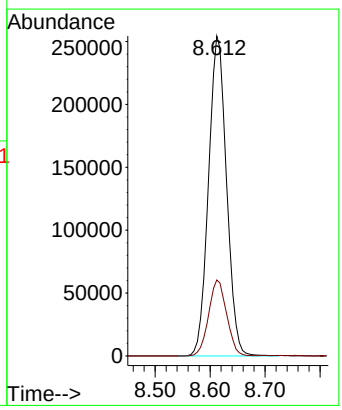
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

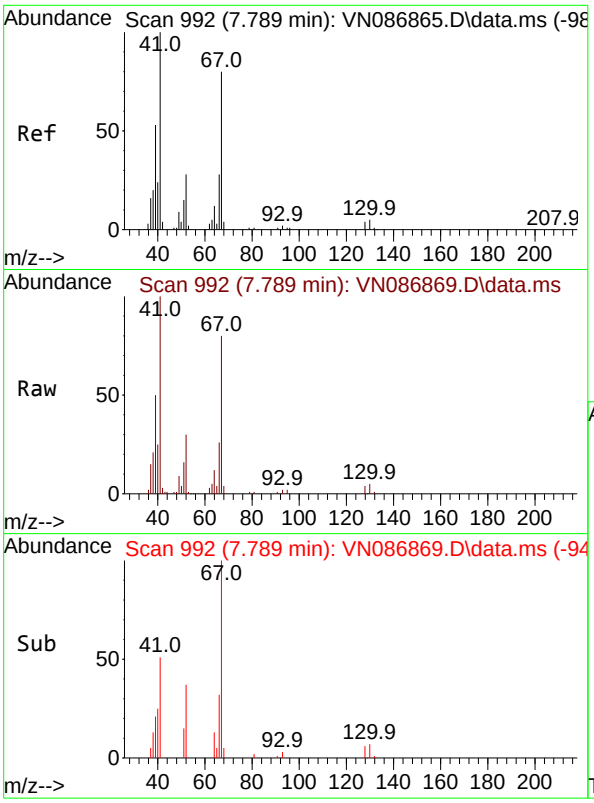


#40
Benzene
Concen: 50.931 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 78 Resp: 579667

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.7	28.1

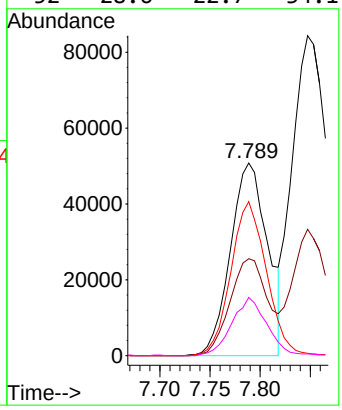




#41
Methacrylonitrile
Concen: 52.607 ug/l
RT: 7.789 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 41 Resp: 13090

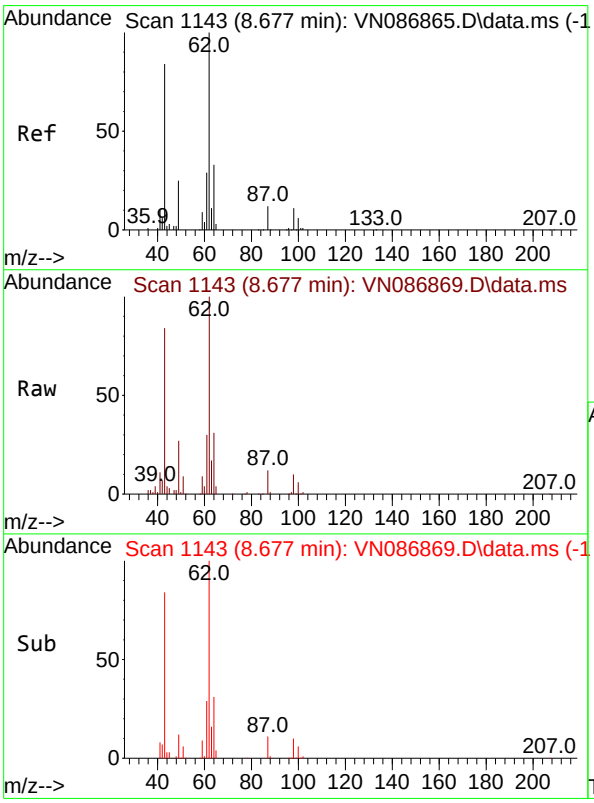
Ion	Ratio	Lower	Upper
41	100		
39	51.3	41.2	61.8
67	76.9	61.4	92.2
52	28.6	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

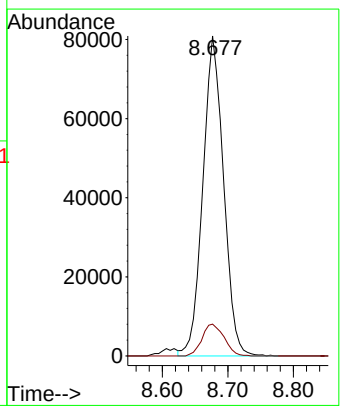
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

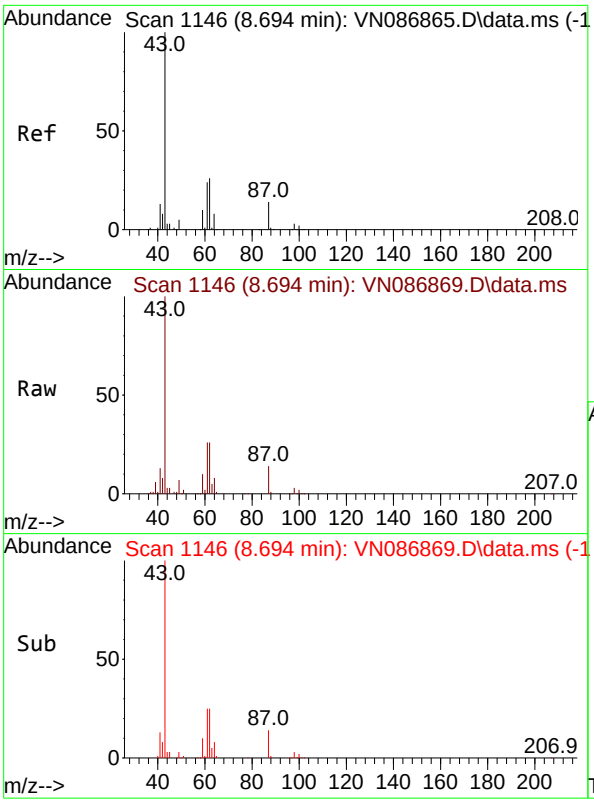


#42
1,2-Dichloroethane
Concen: 51.489 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 62 Resp: 177746

Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	21.2





#43
Isopropyl Acetate
Concen: 50.536 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

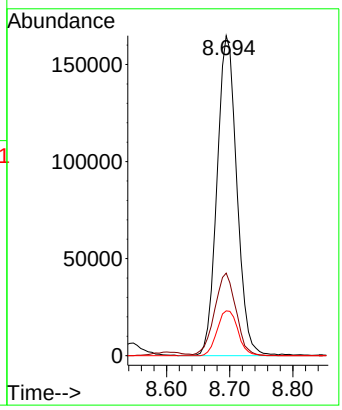
Tgt Ion: 43 Resp: 35937

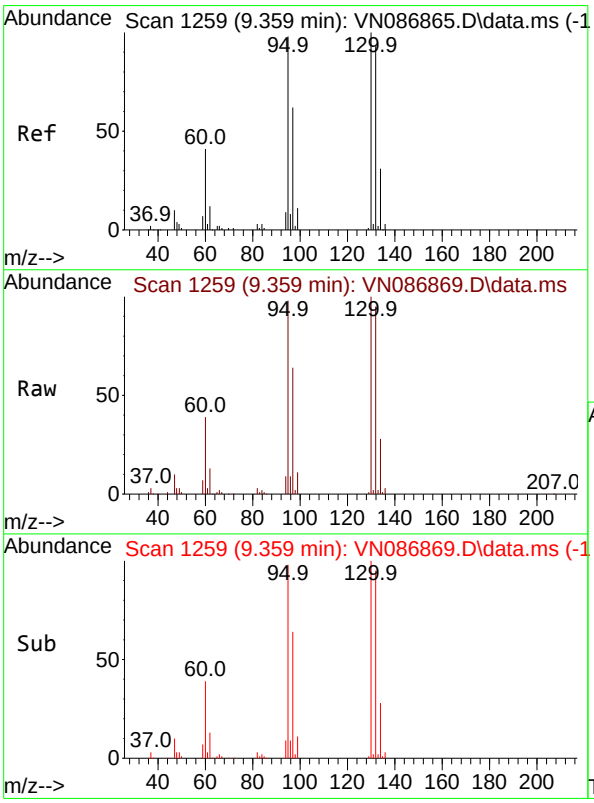
Ion	Ratio	Lower	Upper
43	100		
61	27.9	22.1	33.1
87	14.8	11.8	17.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

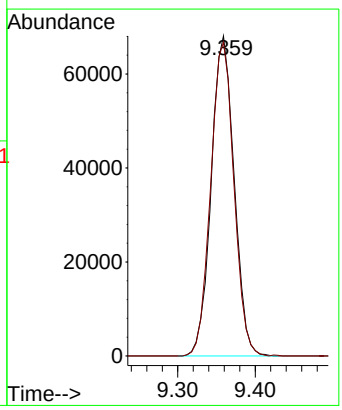


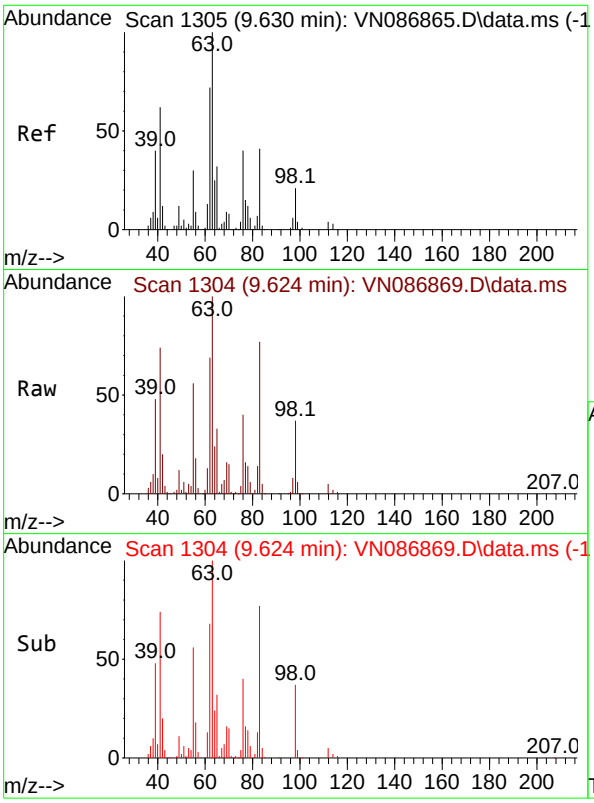


#44
Trichloroethene
Concen: 51.788 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:130 Resp: 139763

Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	196.2

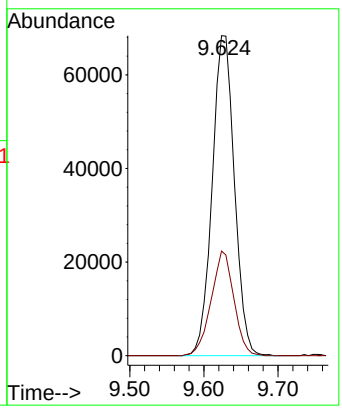




#45
1,2-Dichloropropane
Concen: 51.450 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 63 Resp: 14246

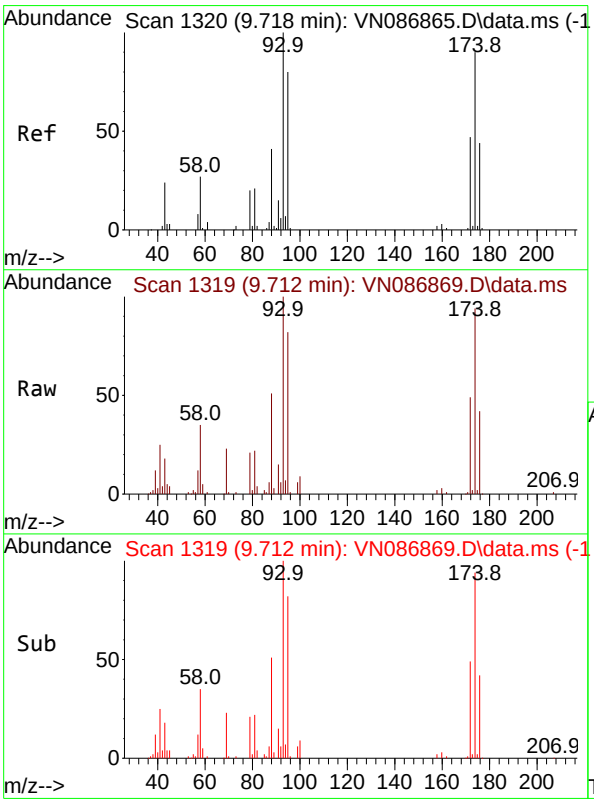
Ion	Ratio	Lower	Upper
63	100		
65	32.7	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

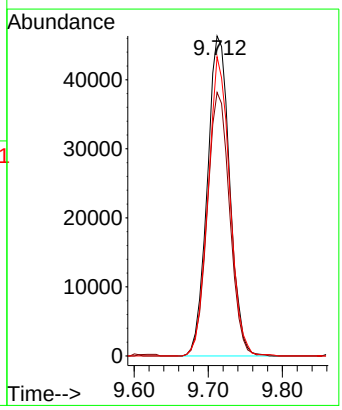
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

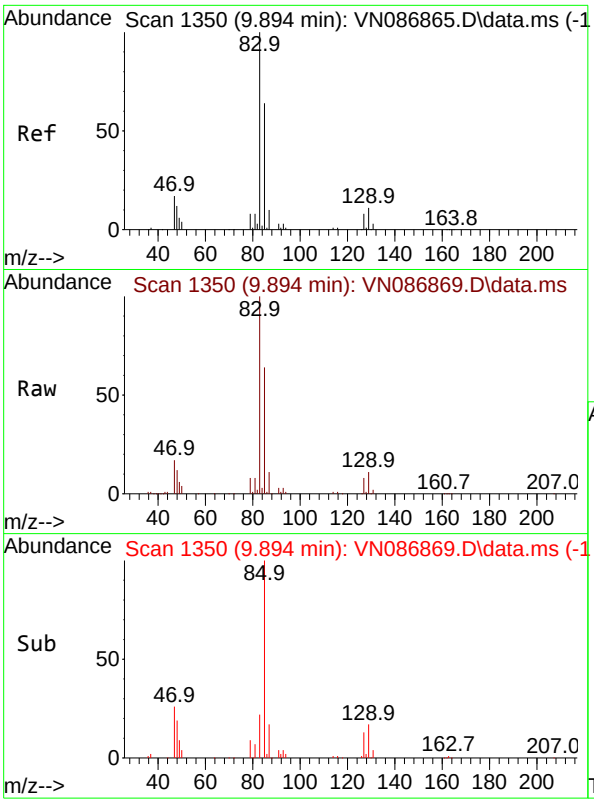


#46
Dibromomethane
Concen: 52.849 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 93 Resp: 97199

Ion	Ratio	Lower	Upper
93	100		
95	82.2	67.1	100.7
174	90.9	74.2	111.4

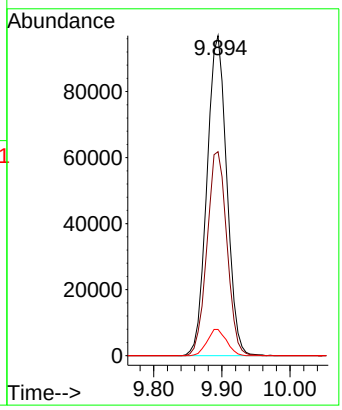




#47
Bromodichloromethane
Concen: 51.824 ug/l
RT: 9.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 83 Resp: 19610

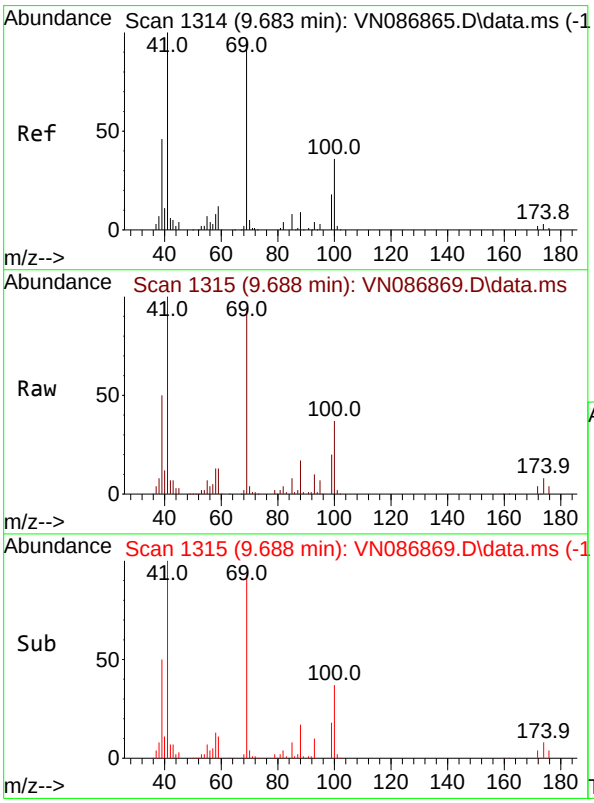
Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.9	76.3
127	8.2	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

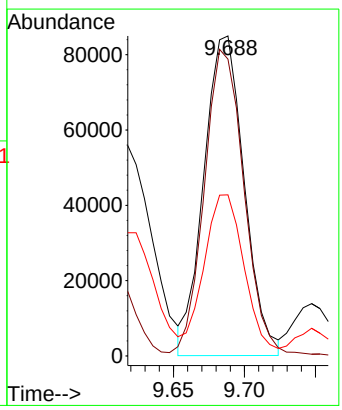
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

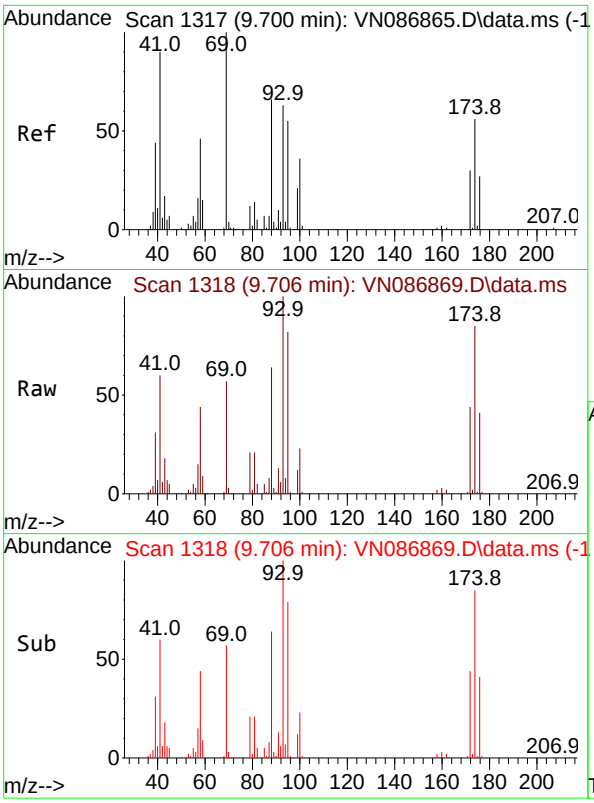


#48
Methyl methacrylate
Concen: 51.328 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 41 Resp: 168001

Ion	Ratio	Lower	Upper
41	100		
69	95.2	74.6	112.0
39	51.0	40.2	60.4

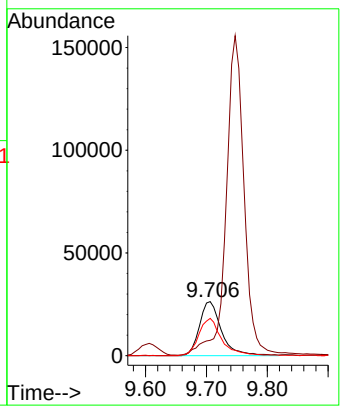




#49
1,4-Dioxane
Concen: 1110.123 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 88 Resp: 6610

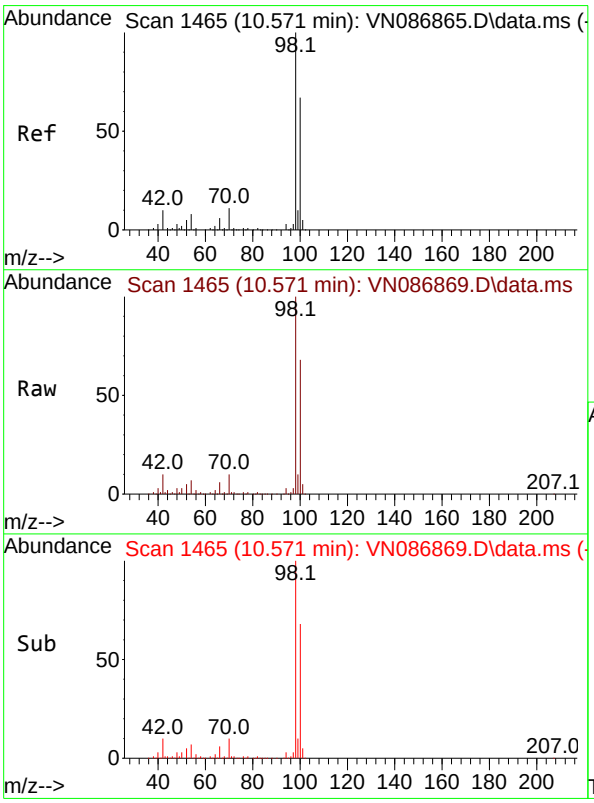
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	72.7	57.7	86.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

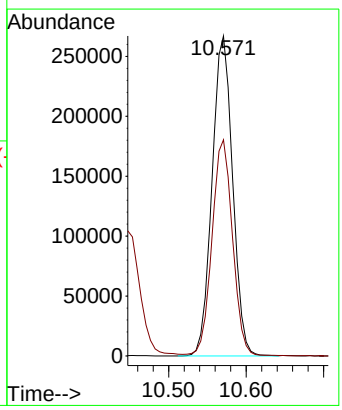
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

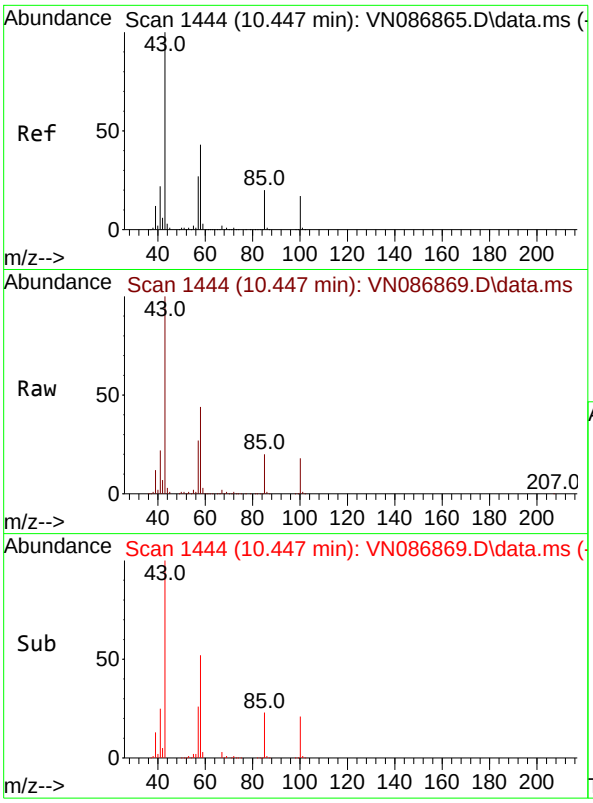


#50
Toluene-d8
Concen: 53.129 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 98 Resp: 491265

Ion	Ratio	Lower	Upper
98	100		
100	67.6	53.4	80.0





#51
4-Methyl-2-Pentanone
Concen: 267.835 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

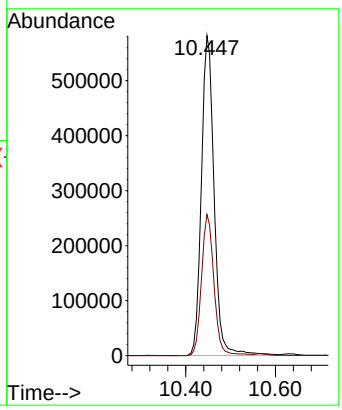
Tgt Ion: 43 Resp: 114662

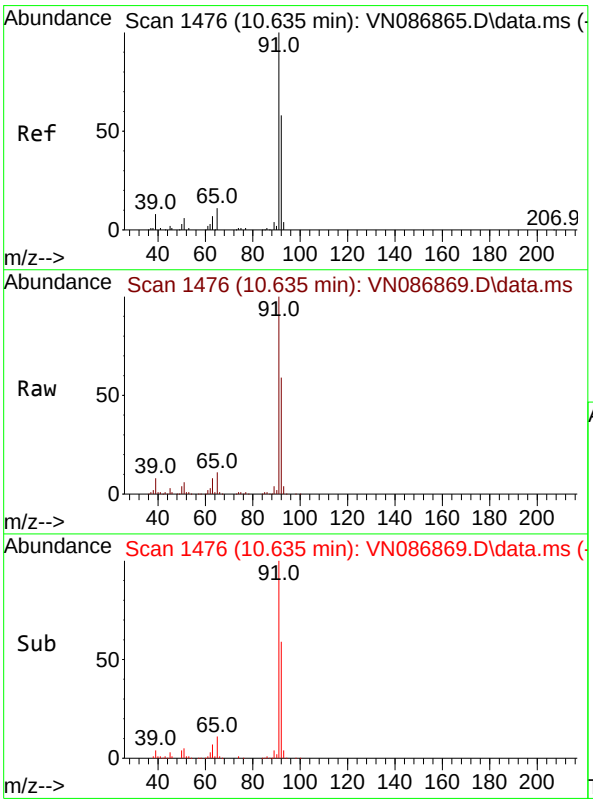
Ion	Ratio	Lower	Upper
43	100		
58	43.2	34.2	51.4

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

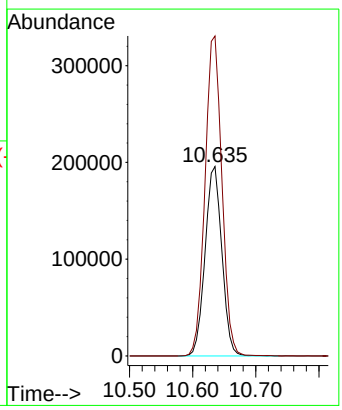


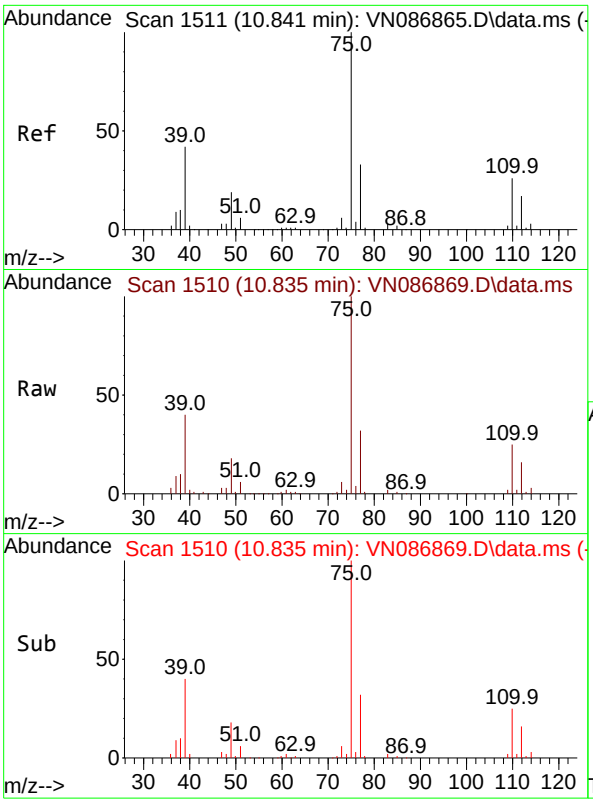


#52
Toluene
Concen: 52.040 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 92 Resp: 361963

Ion	Ratio	Lower	Upper
92	100		
91	169.8	136.5	204.7

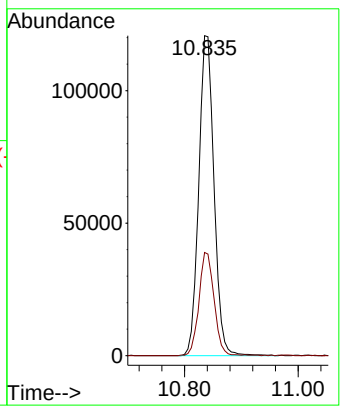




#53
t-1,3-Dichloropropene
Concen: 53.137 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 75 Resp: 22483

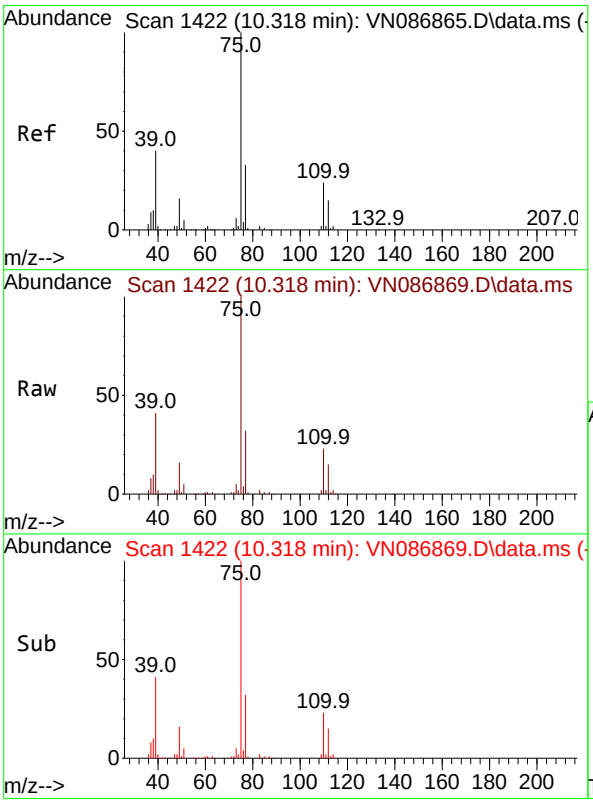
Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

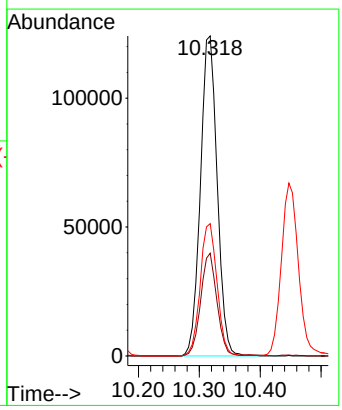
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

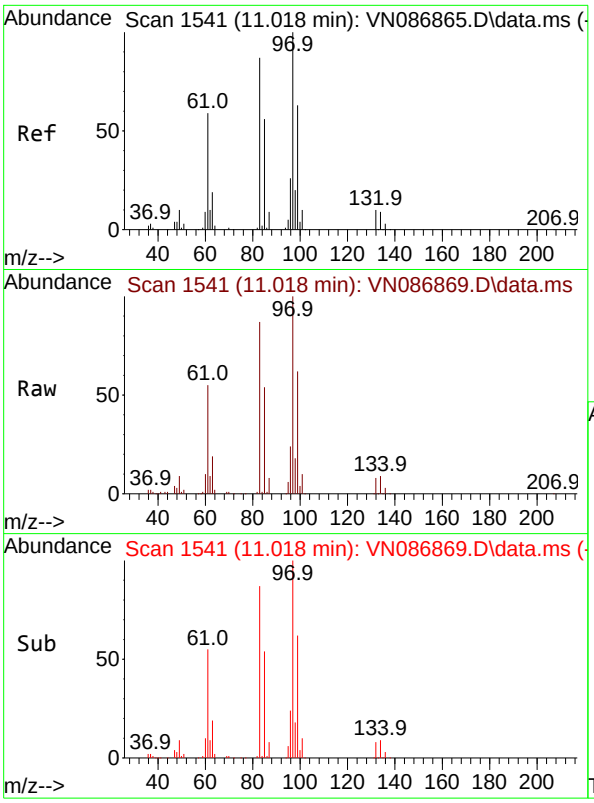


#54
cis-1,3-Dichloropropene
Concen: 52.519 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 75 Resp: 237774

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.2	39.4
39	41.3	32.3	48.5

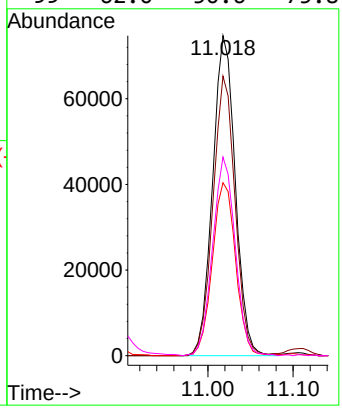




#55
1,1,2-Trichloroethane
Concen: 51.562 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 97 Resp: 13799

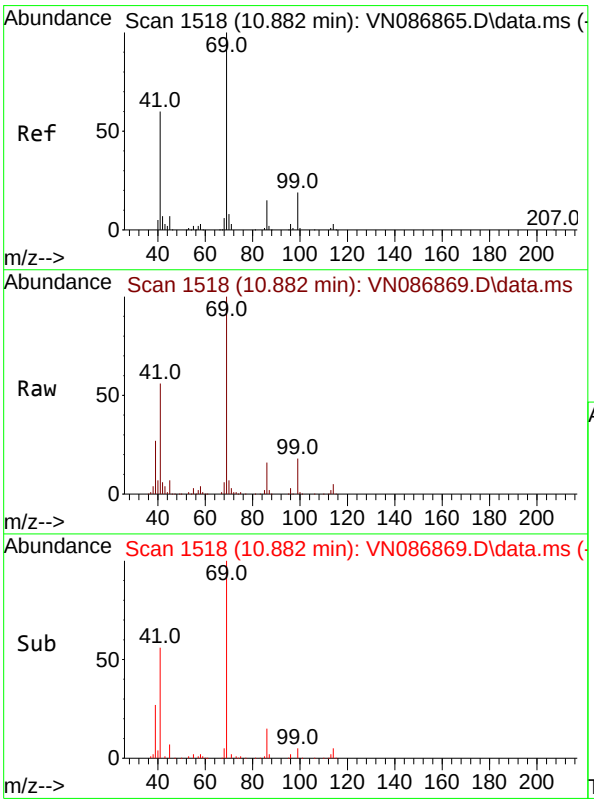
Ion	Ratio	Lower	Upper
97	100		
83	87.4	69.7	104.5
85	54.1	45.1	67.7
99	62.0	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

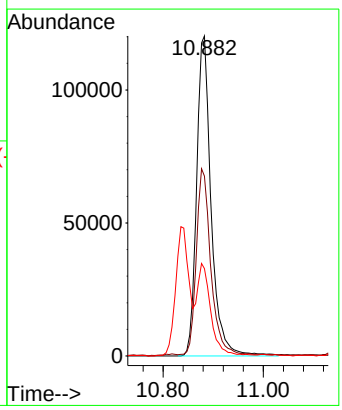
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

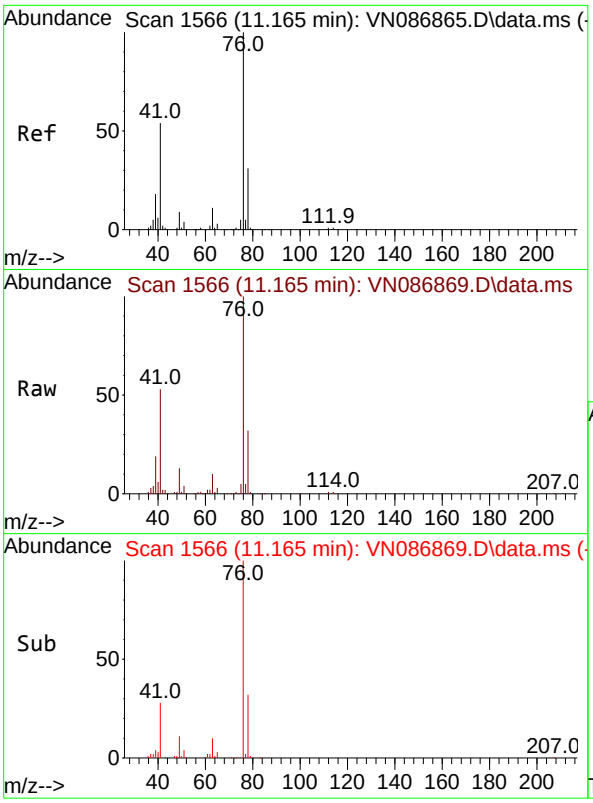


#56
Ethyl methacrylate
Concen: 56.688 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 69 Resp: 241649

Ion	Ratio	Lower	Upper
69	100		
41	57.7	47.2	70.8
39	27.4	23.0	34.6

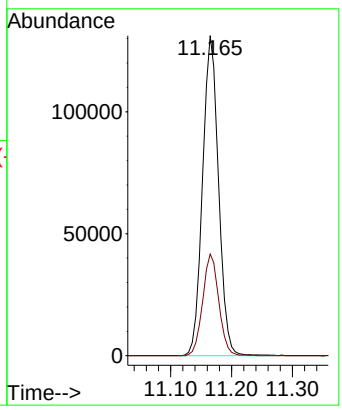




#57
1,3-Dichloropropane
Concen: 51.386 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 76 Resp: 23857

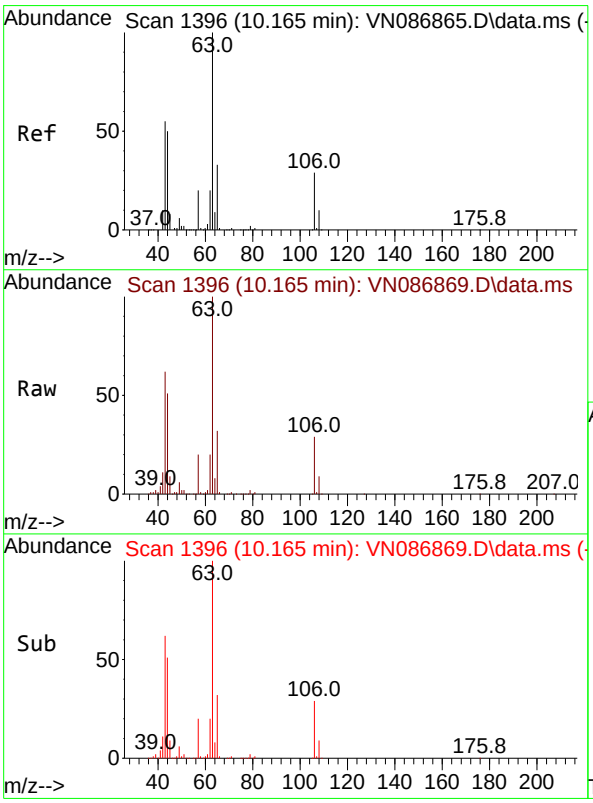
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

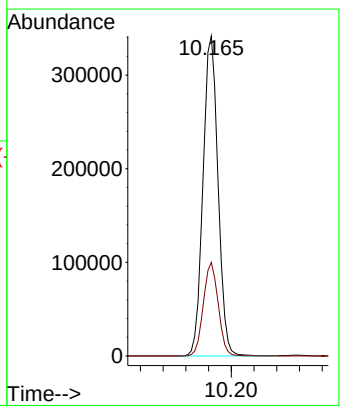
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

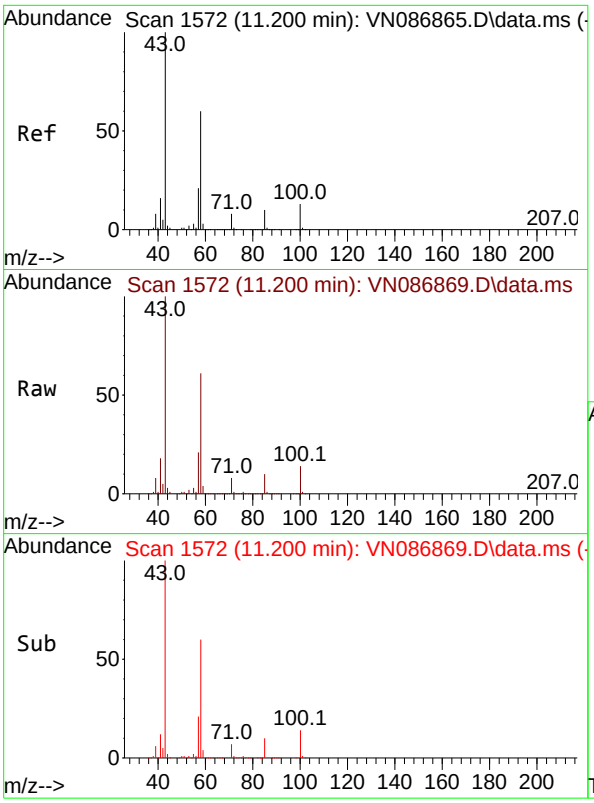


#58
2-Chloroethyl Vinyl ether
Concen: 246.006 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 63 Resp: 625479

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.0	34.6





#59
2-Hexanone
Concen: 283.478 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

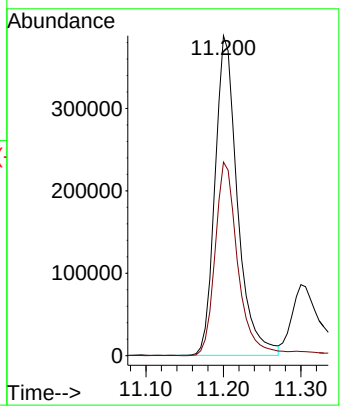
Tgt Ion: 43 Resp: 78171

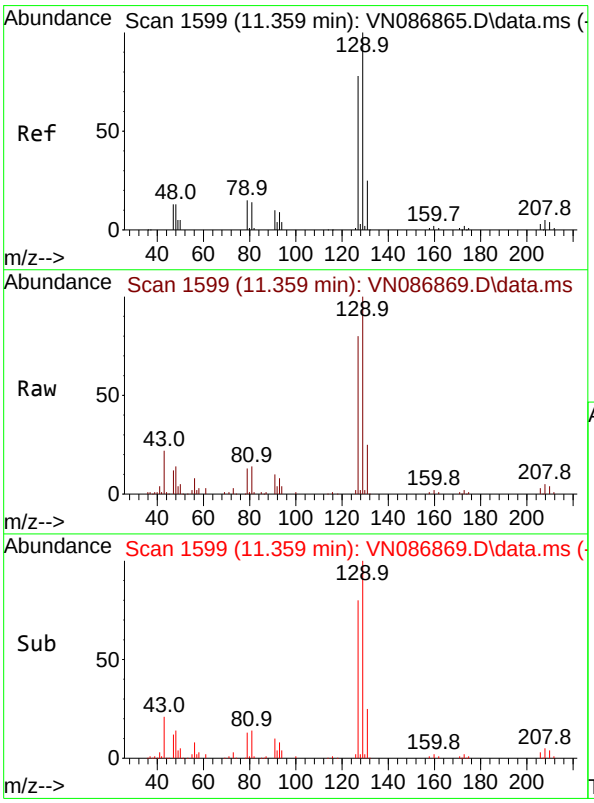
Ion	Ratio	Lower	Upper
43	100		
58	61.2	30.4	91.3

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

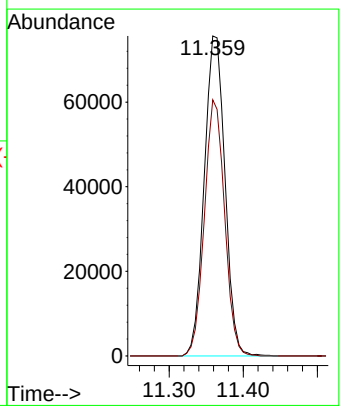


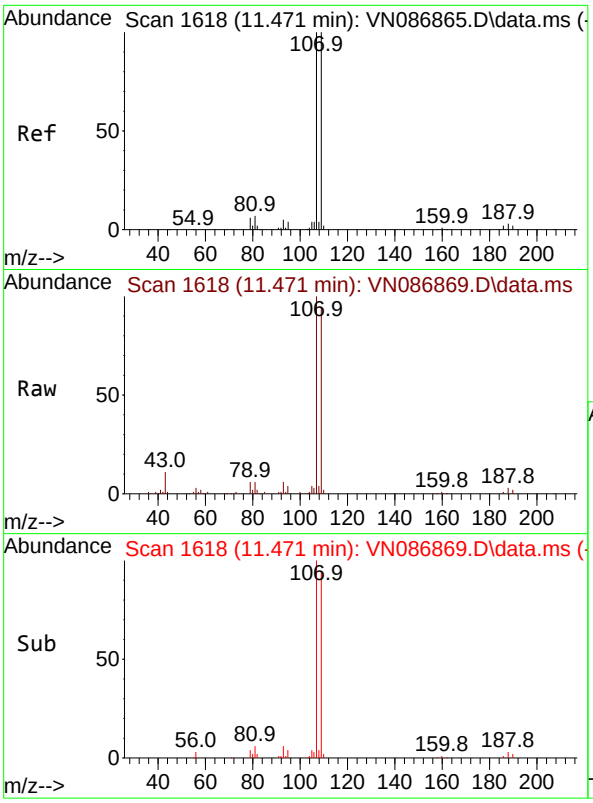


#60
Dibromochloromethane
Concen: 52.627 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:129 Resp: 146749

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.8

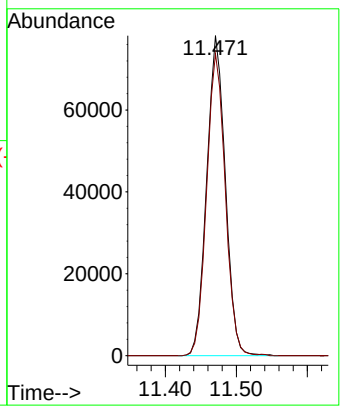




#61
1,2-Dibromoethane
Concen: 51.887 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:107 Resp: 14233

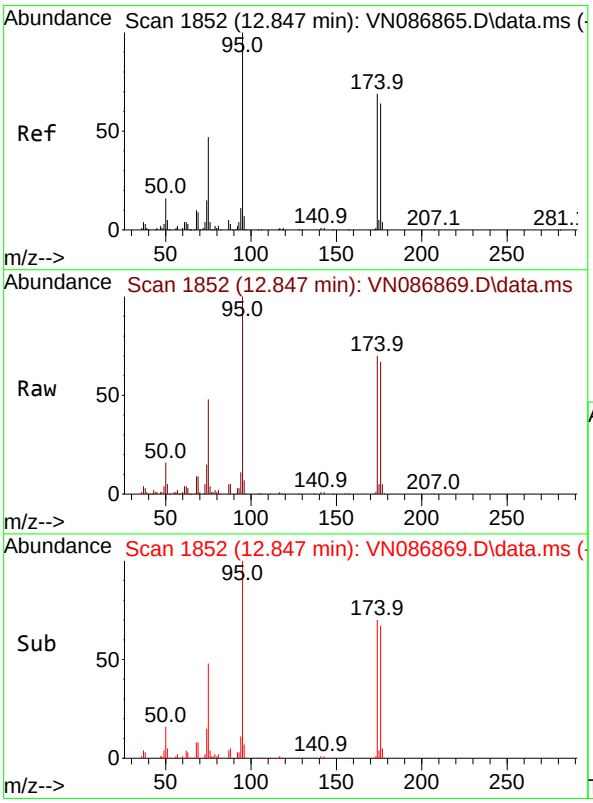
Ion	Ratio	Lower	Upper
107	100		
109	94.5	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

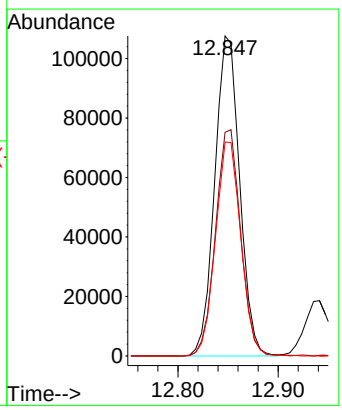
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

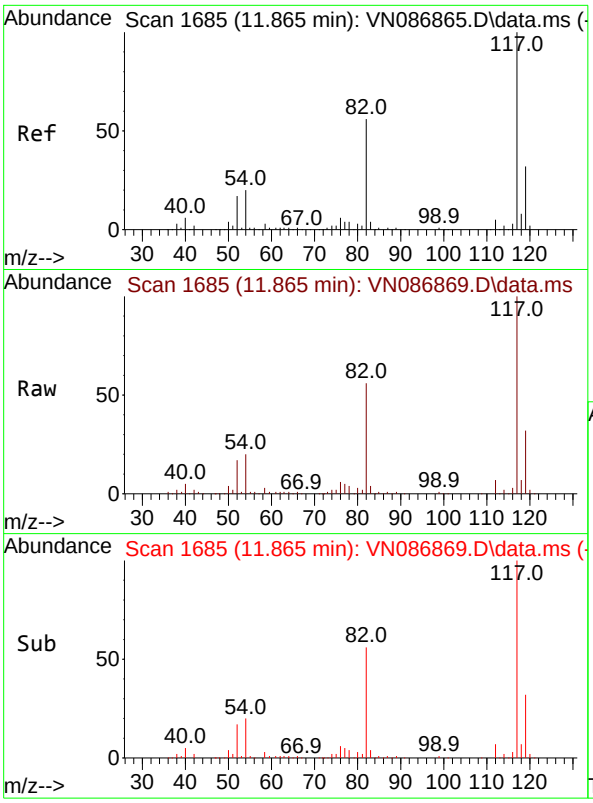


#62
4-Bromofluorobenzene
Concen: 54.081 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 95 Resp: 185792

Ion	Ratio	Lower	Upper
95	100		
174	71.4	0.0	141.8
176	68.1	0.0	132.6

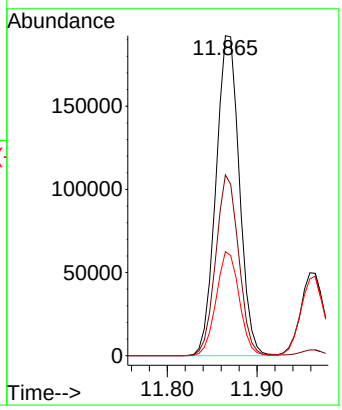




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:117 Resp: 34893

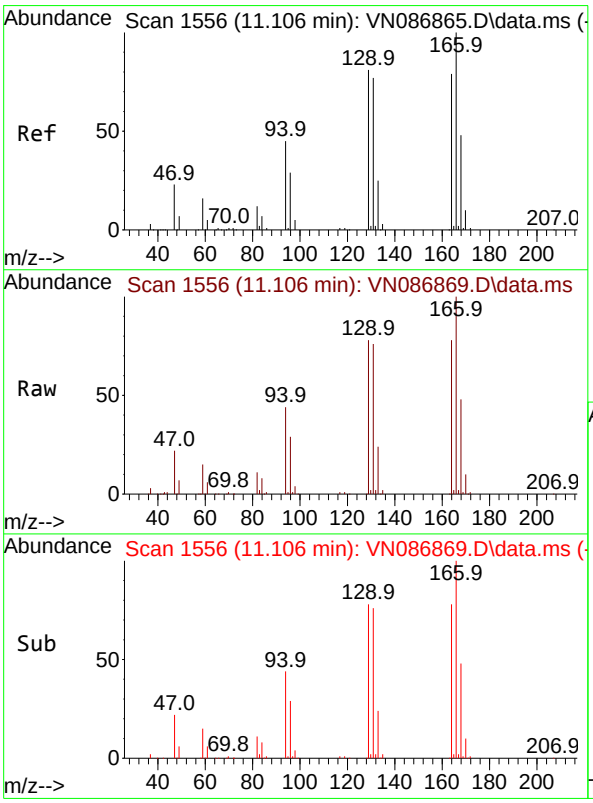
Ion	Ratio	Lower	Upper
117	100		
82	56.5	44.6	67.0
119	32.5	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

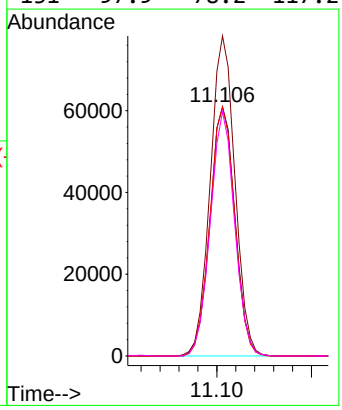
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

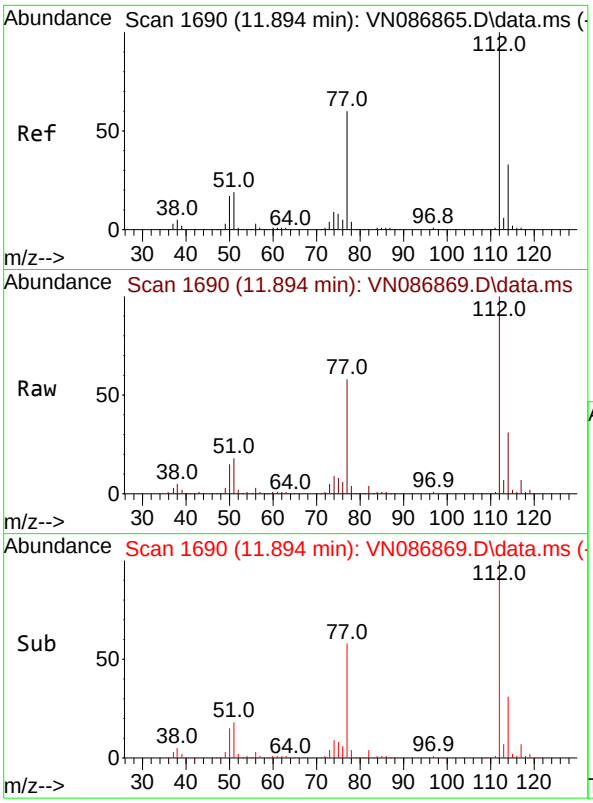


#64
Tetrachloroethene
Concen: 50.450 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:164 Resp: 111409

Ion	Ratio	Lower	Upper
164	100		
166	128.5	101.8	152.8
129	99.9	83.0	124.4
131	97.9	78.2	117.2

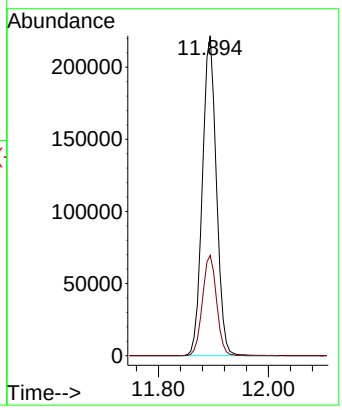




#65
Chlorobenzene
Concen: 50.892 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:112 Resp: 39166

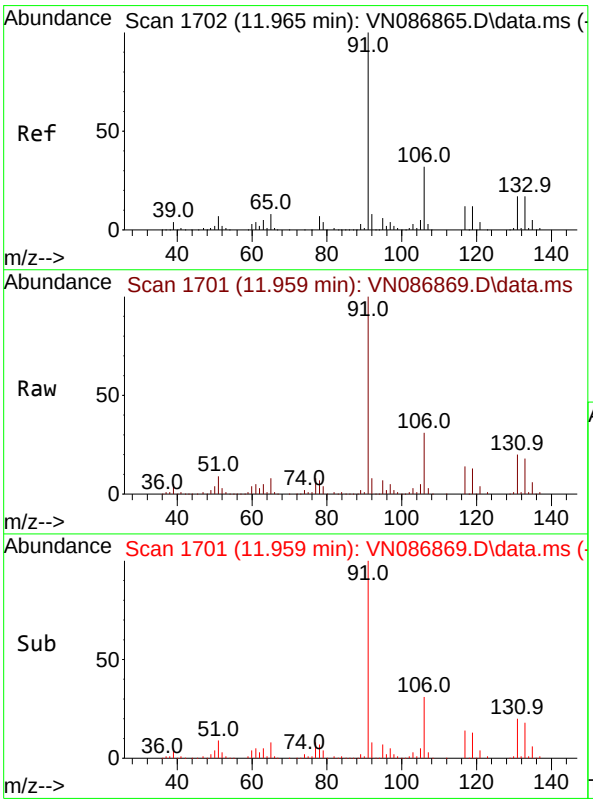
Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

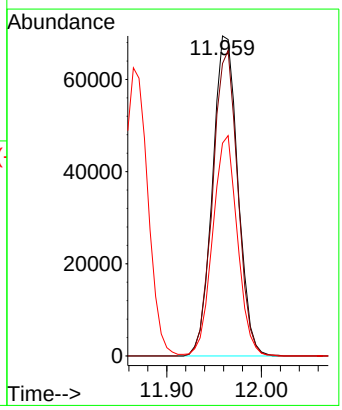
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

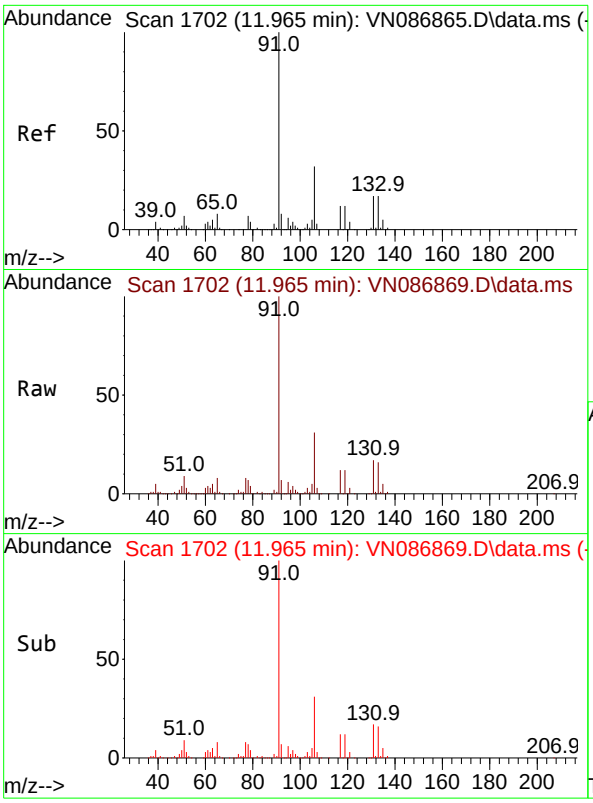


#66
1,1,1,2-Tetrachloroethane
Concen: 52.164 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:131 Resp: 129045

Ion	Ratio	Lower	Upper
131	100		
133	94.5	48.3	144.8
119	67.4	34.0	101.8

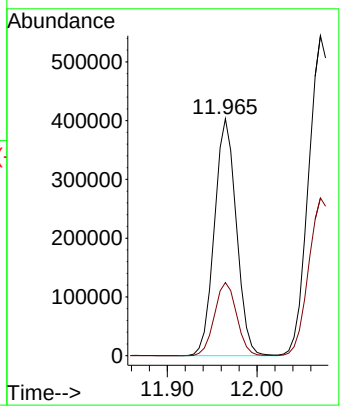




#67
Ethyl Benzene
Concen: 51.590 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 91 Resp: 68387

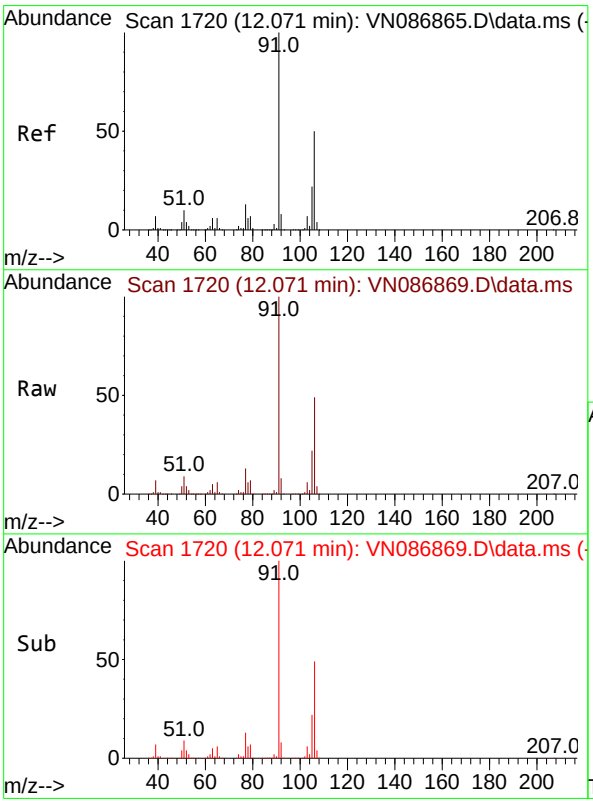
Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

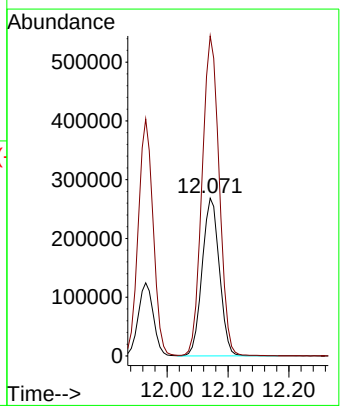
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

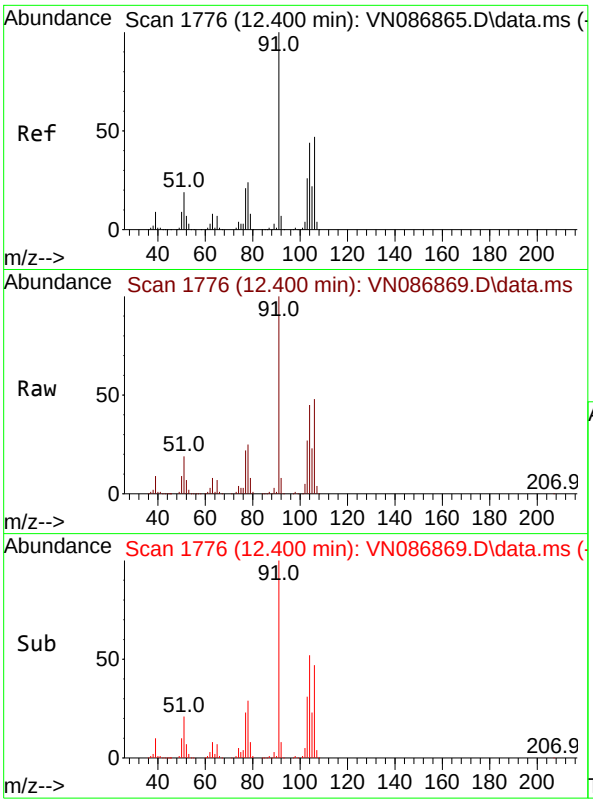


#68
m/p-Xylenes
Concen: 103.912 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:106 Resp: 527293

Ion	Ratio	Lower	Upper
106	100		
91	202.0	159.4	239.0

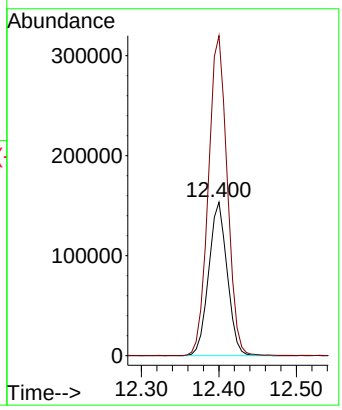




#69
o-Xylene
Concen: 52.387 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:106 Resp: 25460

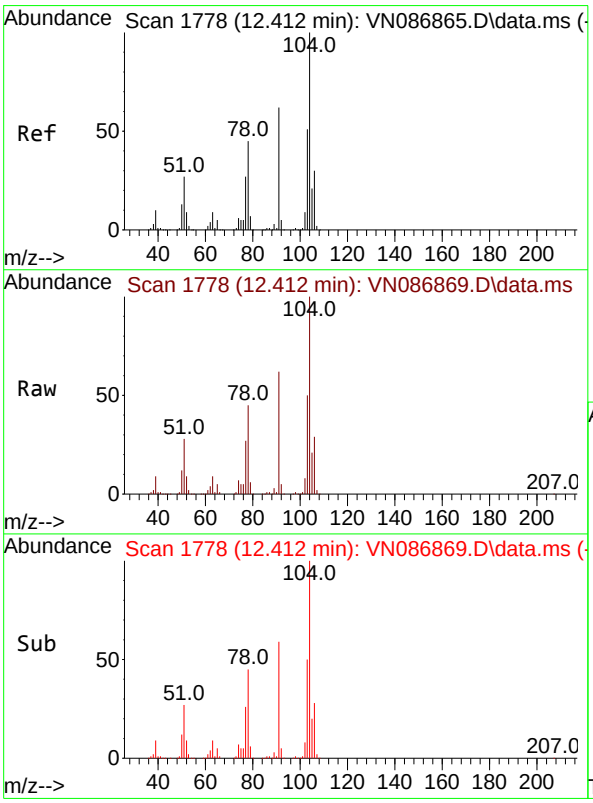
Ion	Ratio	Lower	Upper
106	100		
91	212.8	106.1	318.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

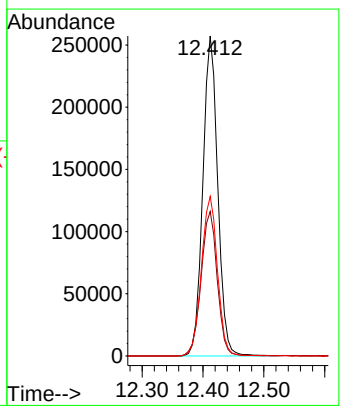
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

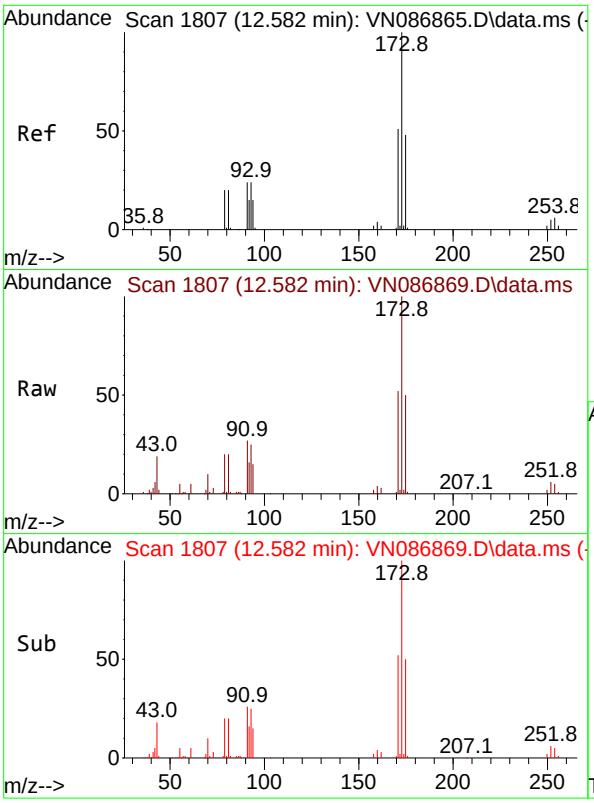


#70
Styrene
Concen: 52.758 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:104 Resp: 438751

Ion	Ratio	Lower	Upper
104	100		
78	48.7	38.5	57.7
103	53.7	43.1	64.7

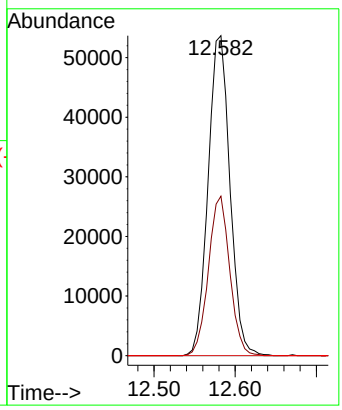




#71
Bromoform
Concen: 54.751 ug/l
RT: 12.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:173 Resp: 10035

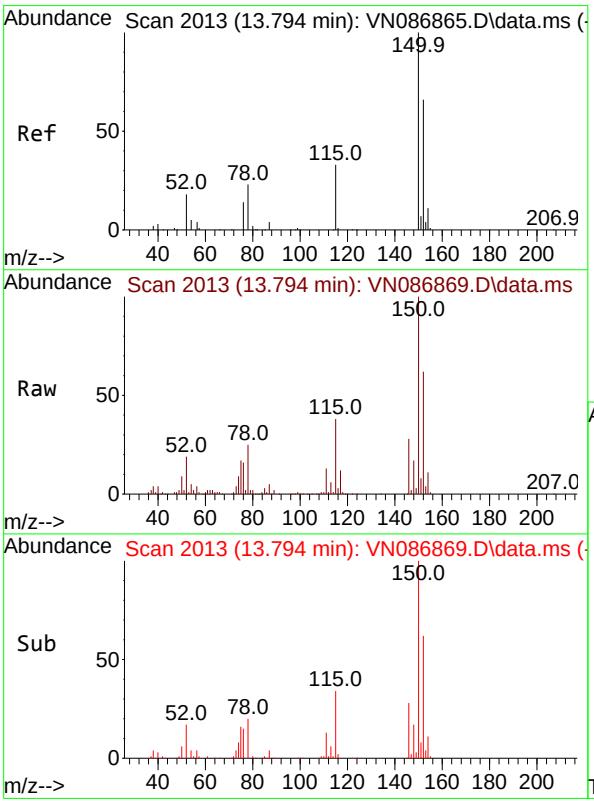
Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

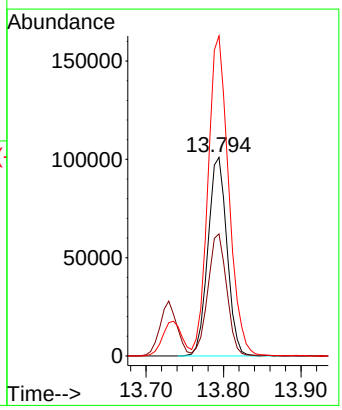
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

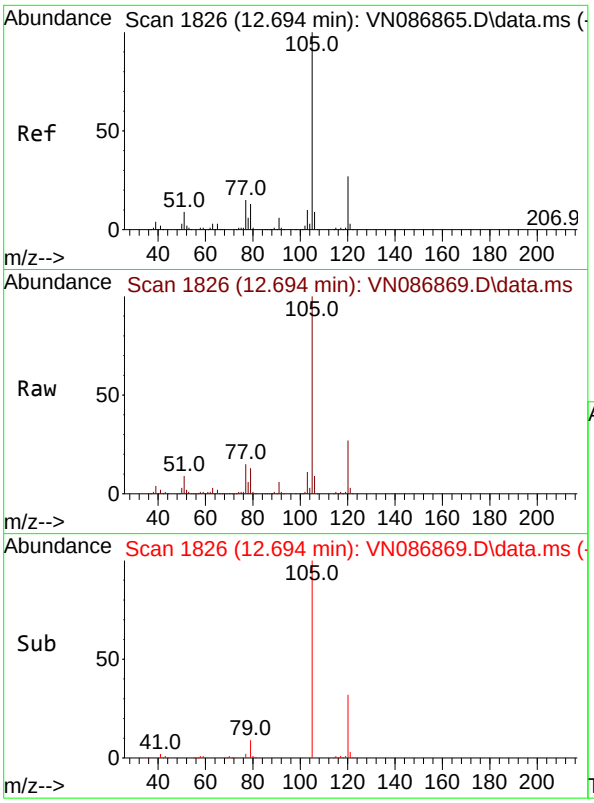


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:152 Resp: 172710

Ion	Ratio	Lower	Upper
152	100		
115	60.6	30.1	90.5
150	174.0	0.0	345.0

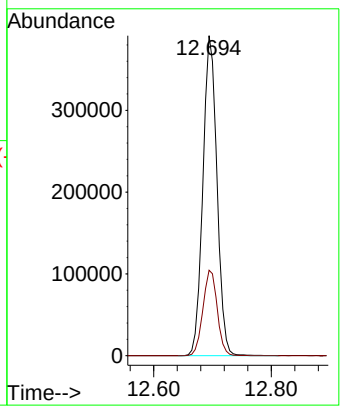




#73
Isopropylbenzene
Concen: 51.823 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:105 Resp: 65204

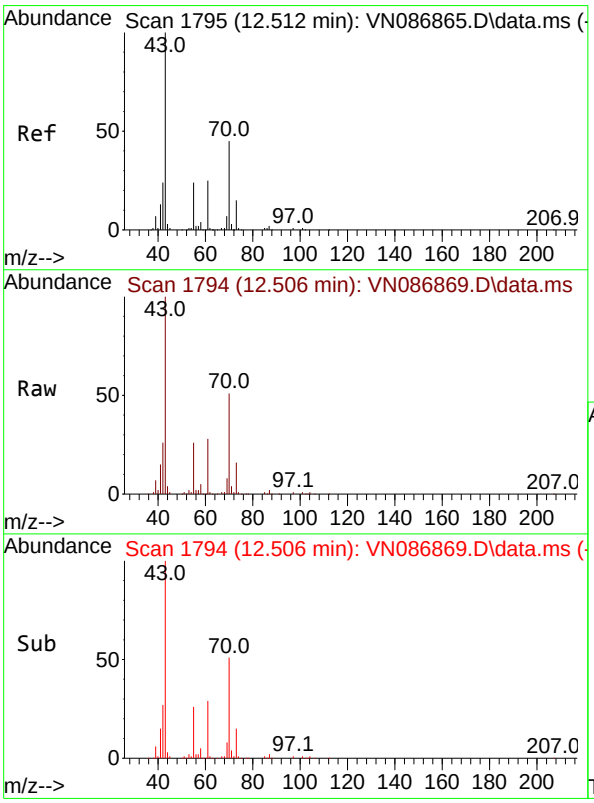
Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

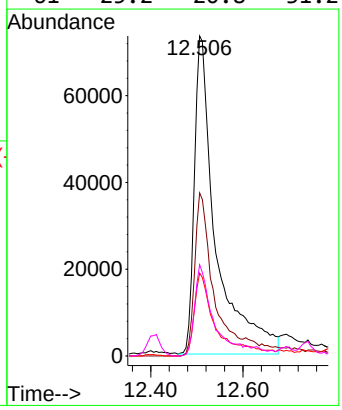
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

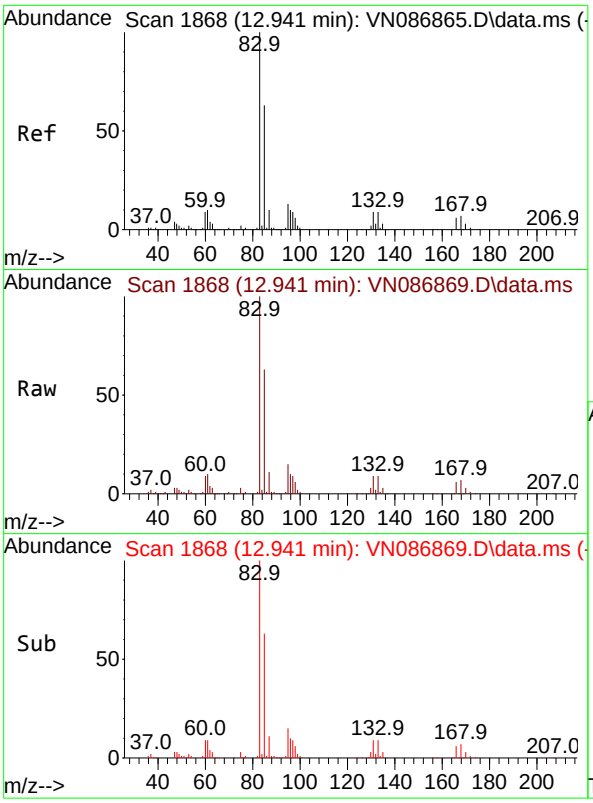


#74
N-amyl acetate
Concen: 54.212 ug/l
RT: 12.506 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 43 Resp: 238355

Ion	Ratio	Lower	Upper
43	100		
70	49.3	37.6	56.4
55	25.3	19.0	28.6
61	25.2	20.8	31.2

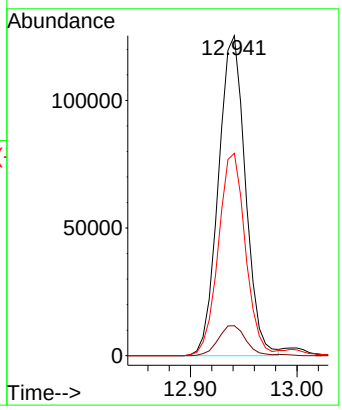




#75
1,1,2,2-Tetrachloroethane
Concen: 51.763 ug/l
RT: 12.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 83 Resp: 22064

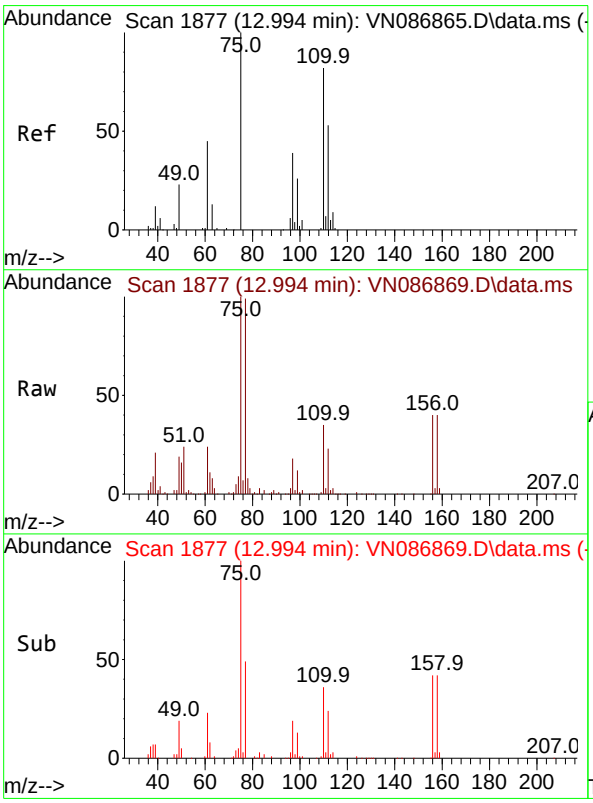
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	63.9	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

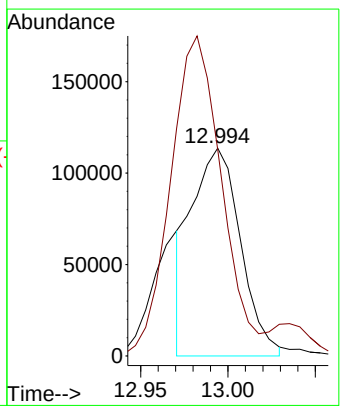
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

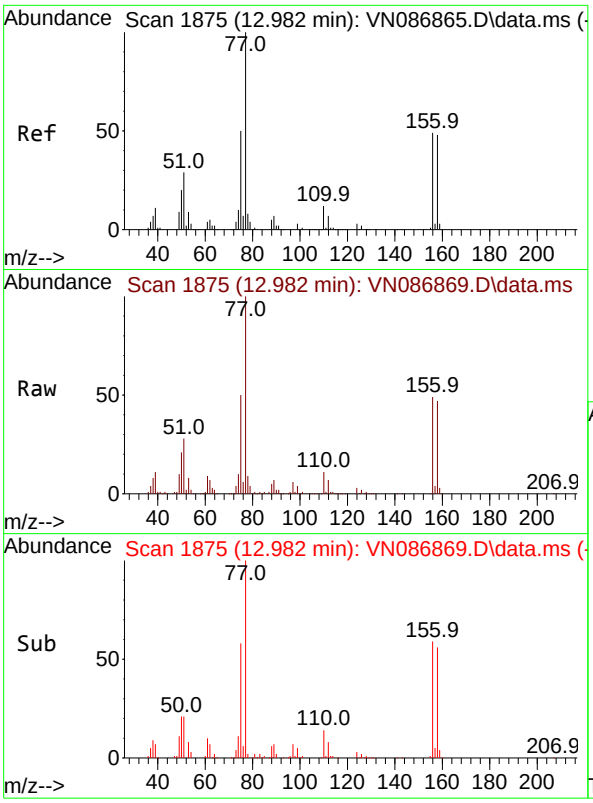


#76
1,2,3-Trichloropropane
Concen: 53.821 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 75 Resp: 220957

Ion	Ratio	Lower	Upper
75	100		
77	160.5	79.3	237.9

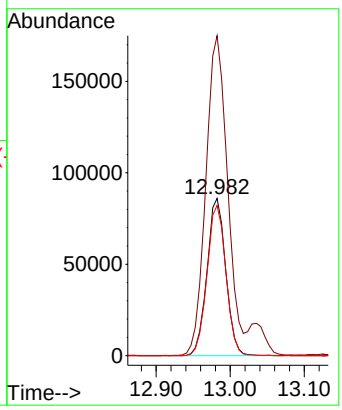




#77
Bromobenzene
Concen: 52.313 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:156 Resp: 15095

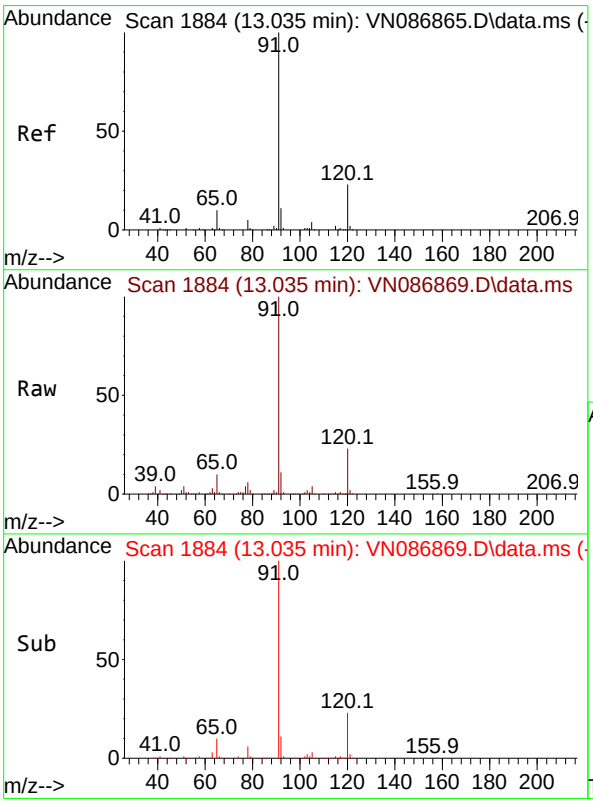
Ion	Ratio	Lower	Upper
156	100		
77	234.9	117.7	353.1
158	96.5	48.1	144.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

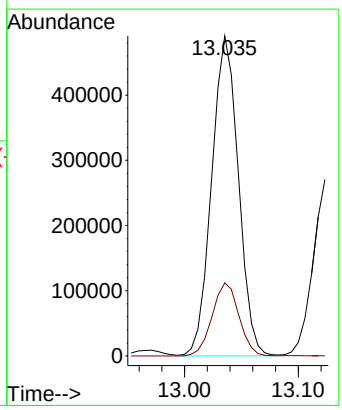
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

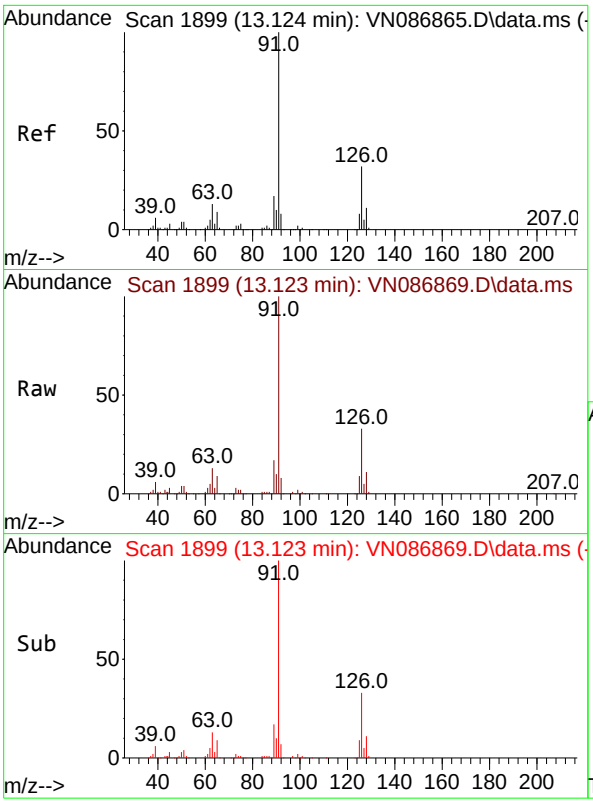


#78
n-propylbenzene
Concen: 52.397 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 91 Resp: 801180

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.4	34.2

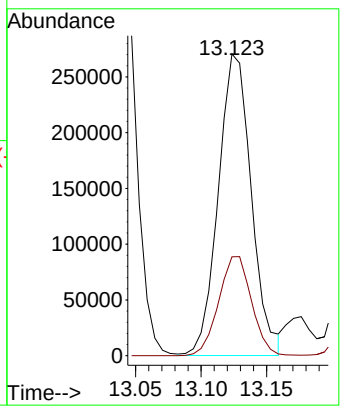




#79
2-Chlorotoluene
Concen: 51.650 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 91 Resp: 47362

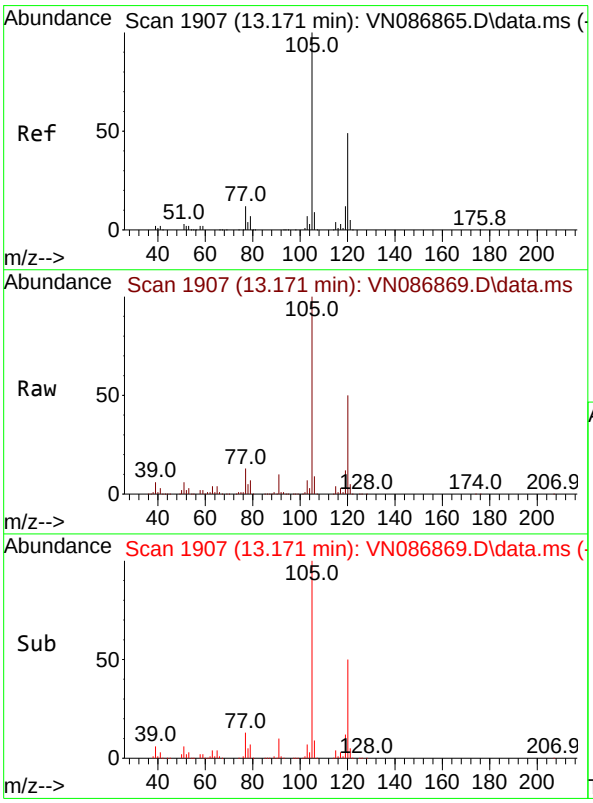
Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

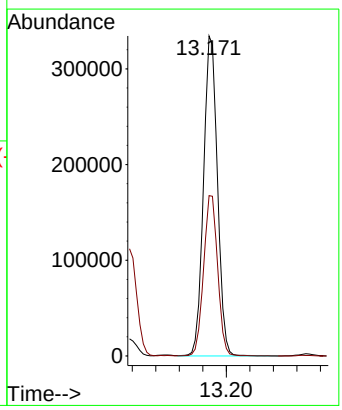
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

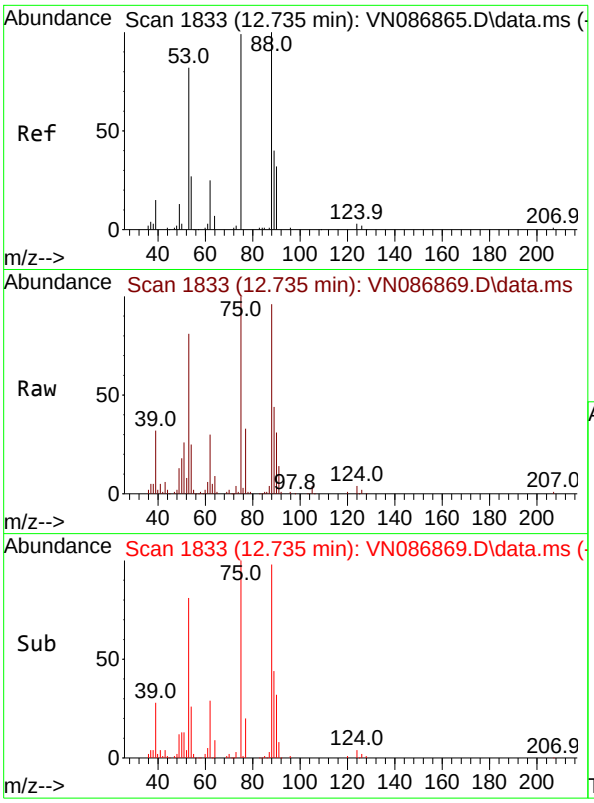


#80
1,3,5-Trimethylbenzene
Concen: 52.787 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:105 Resp: 548347

Ion	Ratio	Lower	Upper
105	100		
120	50.6	24.9	74.6

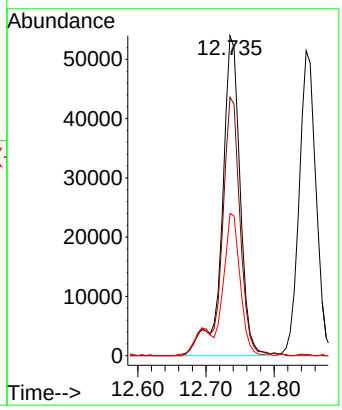




#81
trans-1,4-Dichloro-2-butene
Concen: 55.702 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 75 Resp: 9934

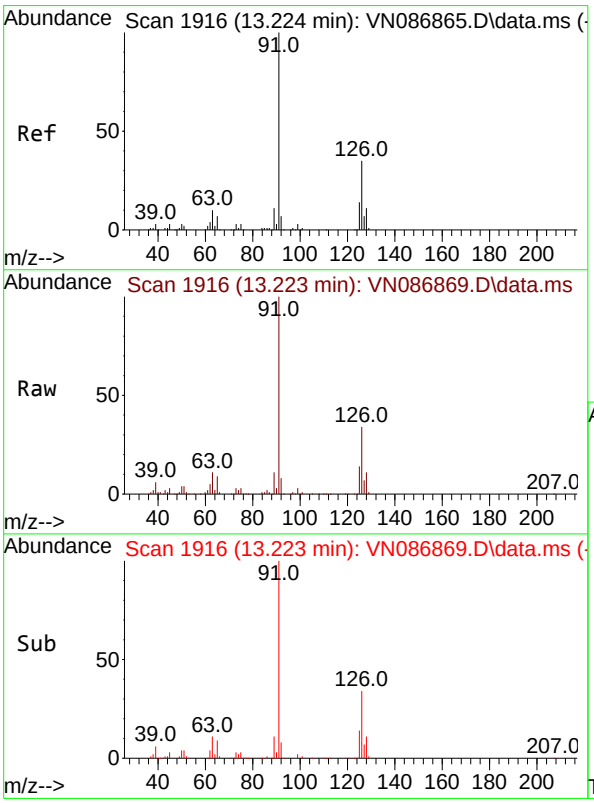
Ion	Ratio	Lower	Upper
75	100		
53	83.7	66.6	99.8
89	40.4	36.7	55.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

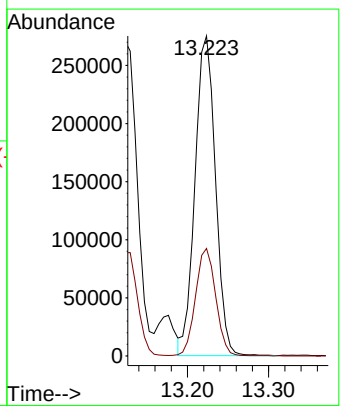
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

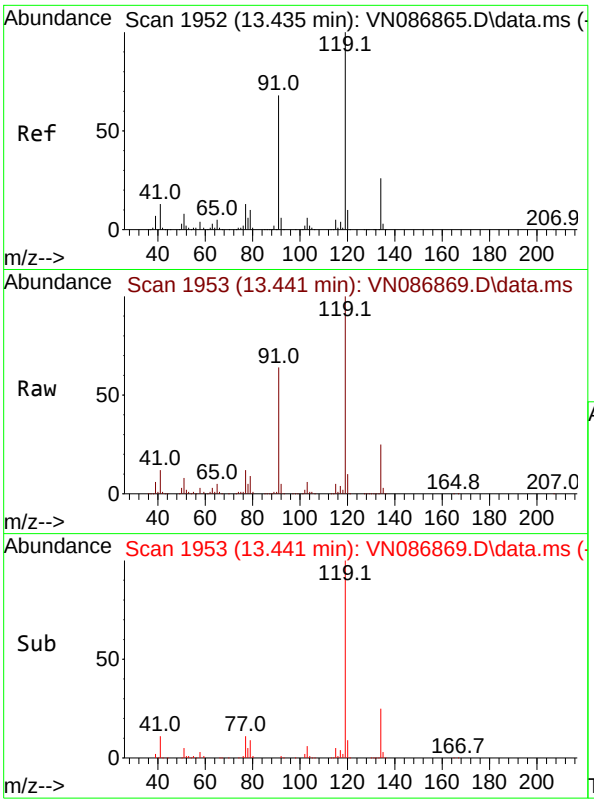


#82
4-Chlorotoluene
Concen: 51.884 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 91 Resp: 481403

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.7	50.1

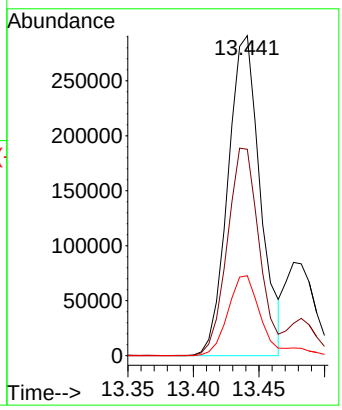




#83
tert-Butylbenzene
Concen: 52.532 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:119 Resp: 49951

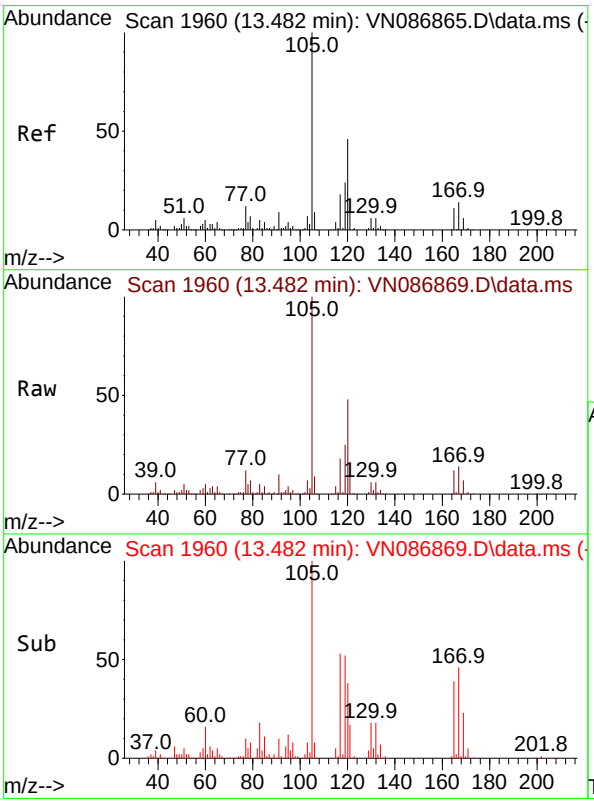
Ion	Ratio	Lower	Upper
119	100		
91	63.9	32.1	96.5
134	26.4	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

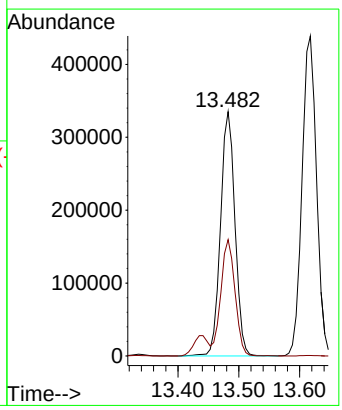
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

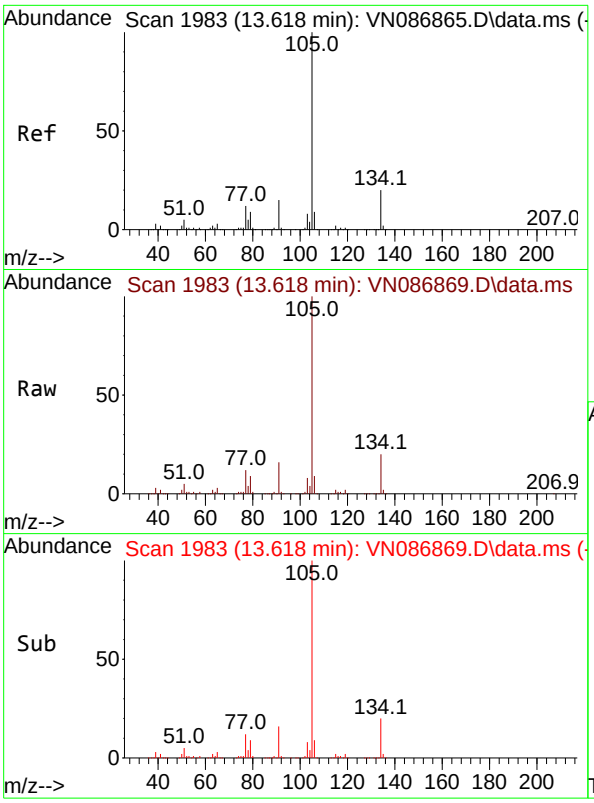


#84
1,2,4-Trimethylbenzene
Concen: 53.024 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:105 Resp: 552333

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.2	69.6

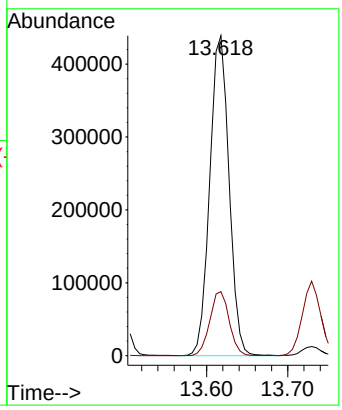




#85
sec-Butylbenzene
Concen: 52.428 ug/l
RT: 13.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:105 Resp: 72398

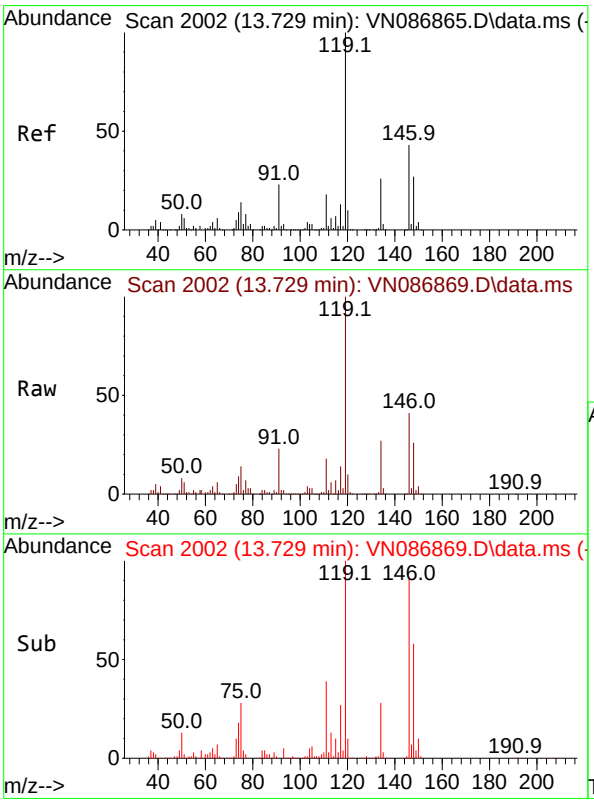
Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

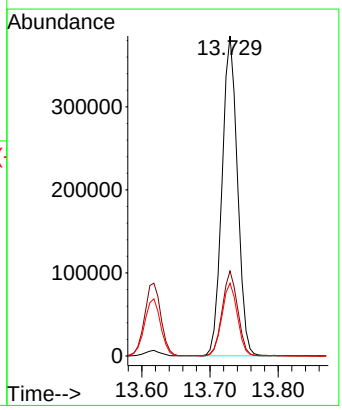
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

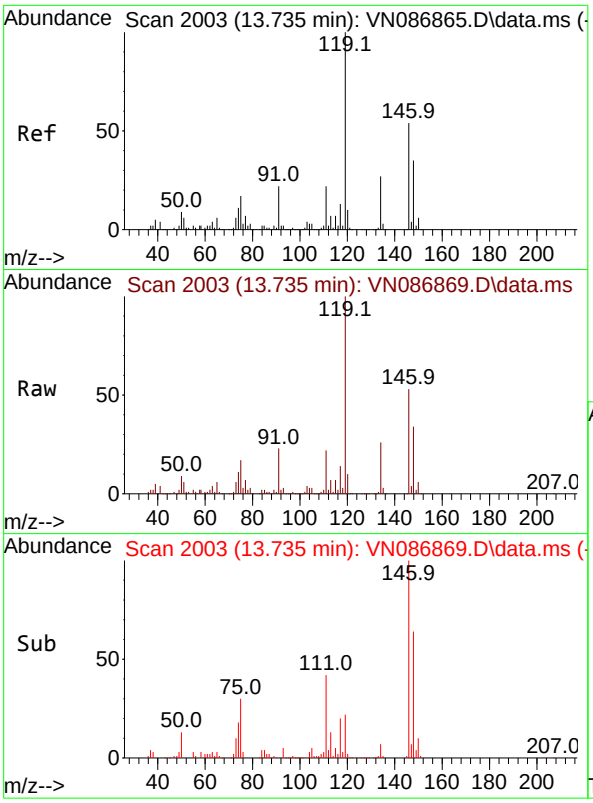


#86
p-Isopropyltoluene
Concen: 53.174 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:119 Resp: 606979

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.5	40.4
91	22.7	11.5	34.4

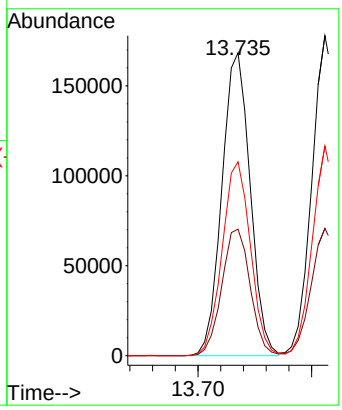




#87
1,3-Dichlorobenzene
Concen: 51.224 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:146 Resp: 29081

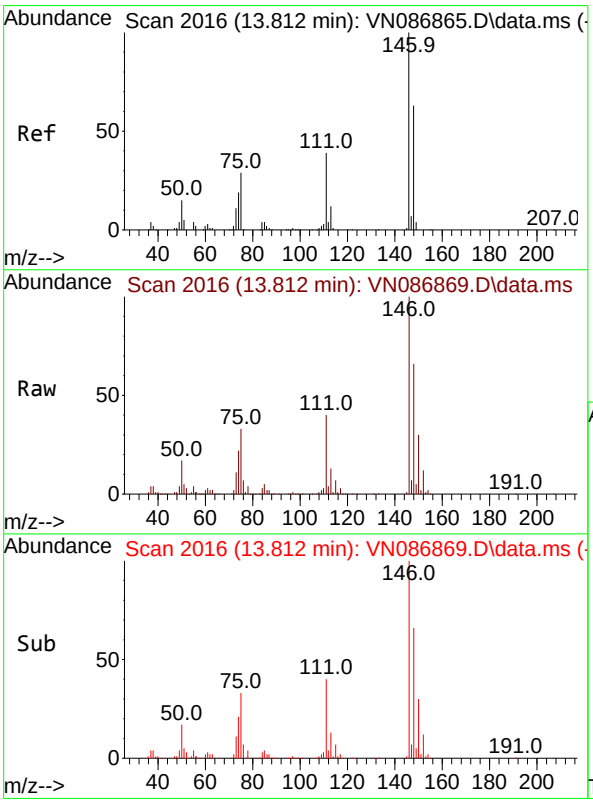
Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.9	62.8
148	64.3	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

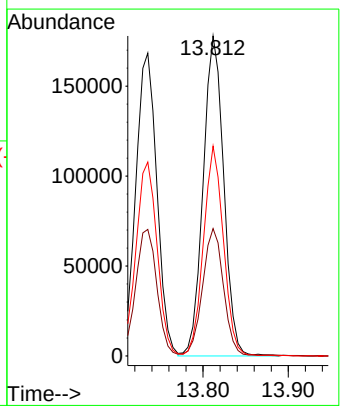
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

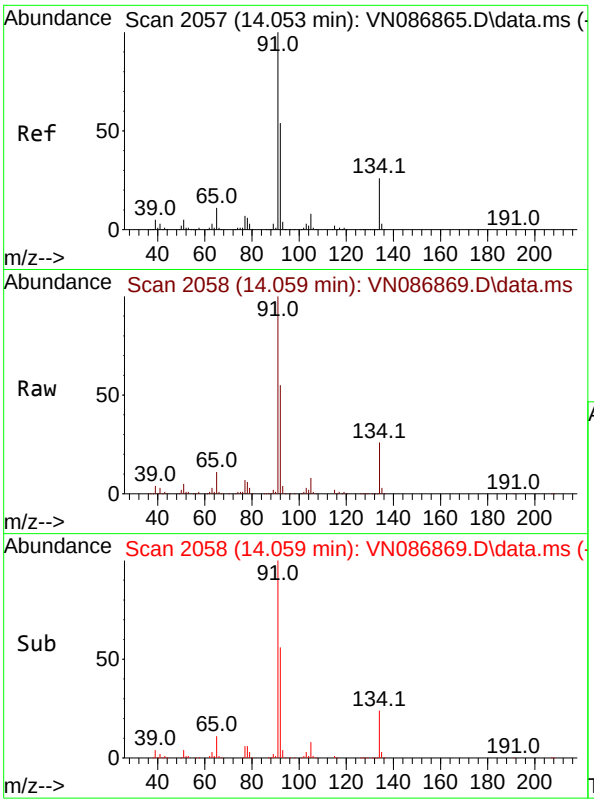


#88
1,4-Dichlorobenzene
Concen: 51.557 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:146 Resp: 298412

Ion	Ratio	Lower	Upper
146	100		
111	40.0	19.9	59.7
148	63.3	31.8	95.4

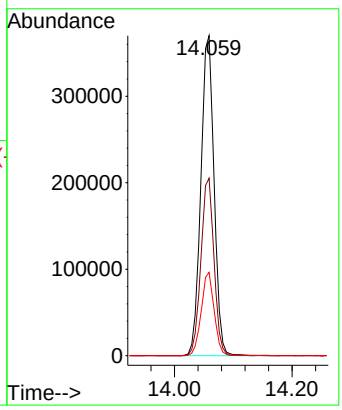




#89
n-Butylbenzene
Concen: 52.424 ug/l
RT: 14.059 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 91 Resp: 57963

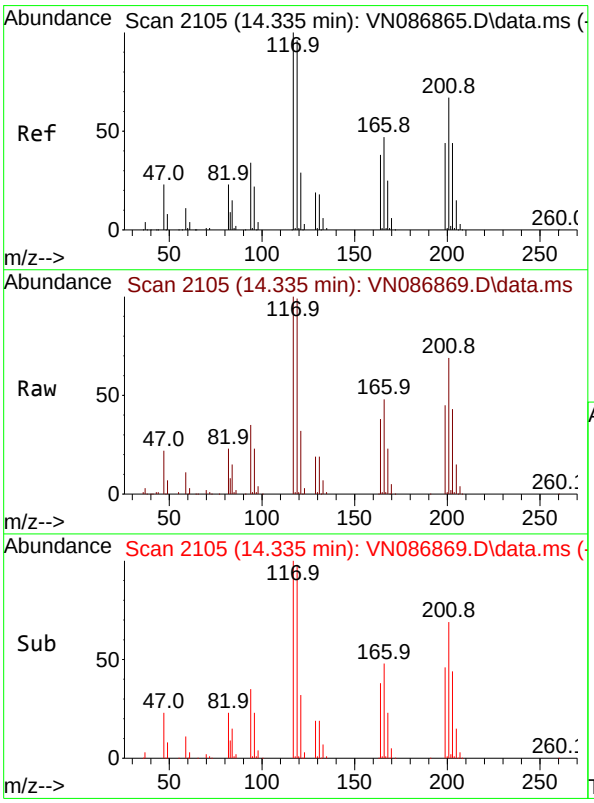
Ion	Ratio	Lower	Upper
91	100		
92	55.0	27.5	82.4
134	25.5	13.0	39.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

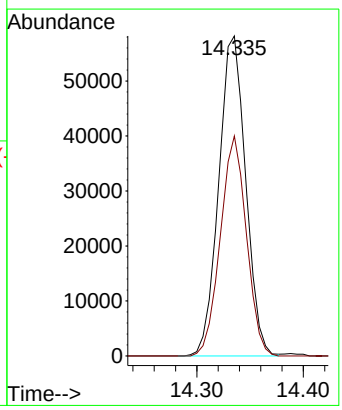
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

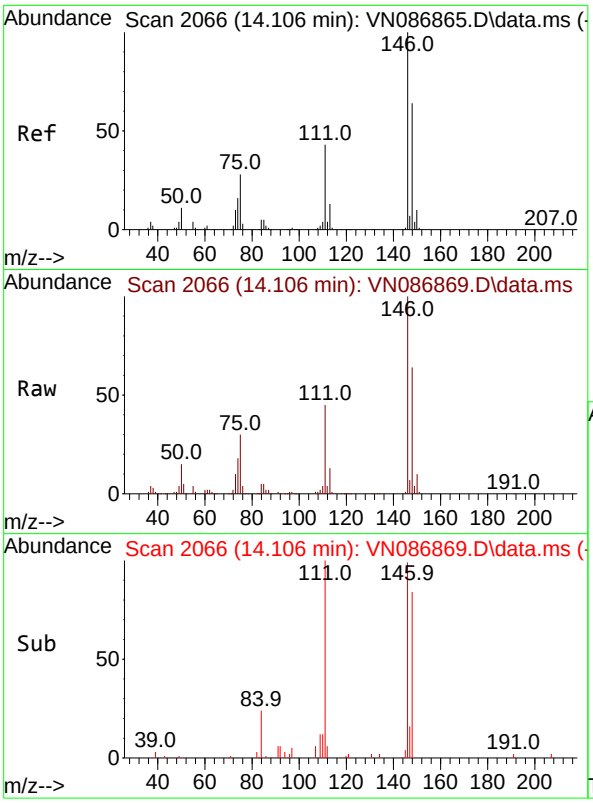


#90
Hexachloroethane
Concen: 52.847 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:117 Resp: 102254

Ion	Ratio	Lower	Upper
117	100		
201	66.4	33.2	99.6

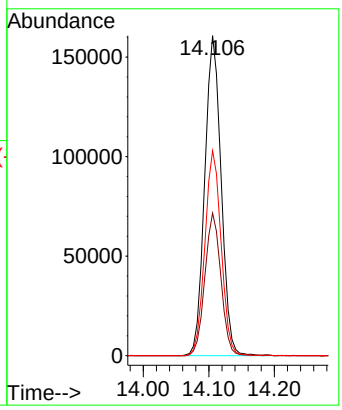




#91
1,2-Dichlorobenzene
Concen: 51.340 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:146 Resp: 28002

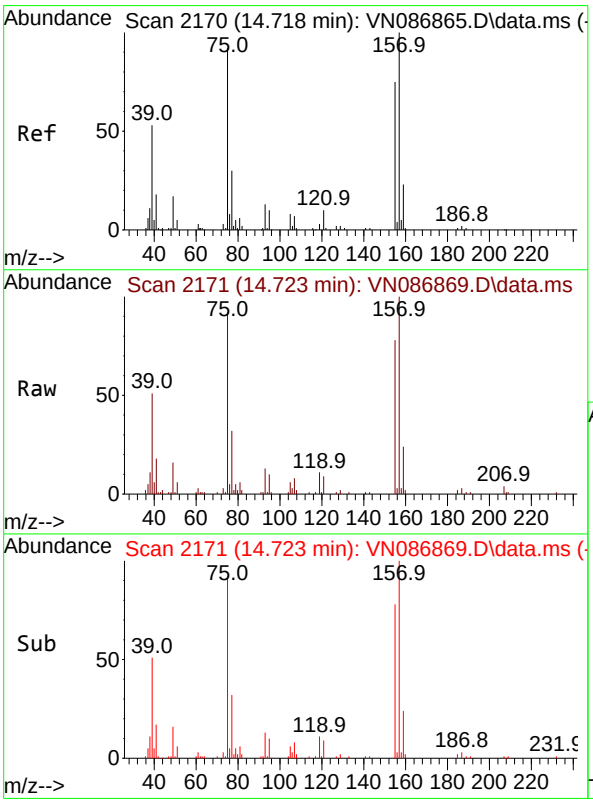
Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.6	64.6
148	63.4	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

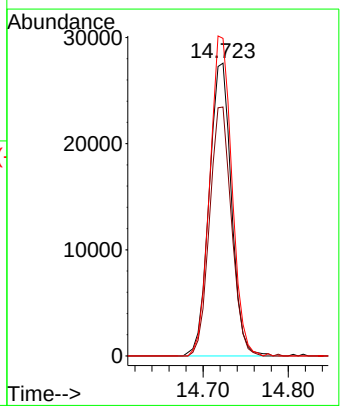
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

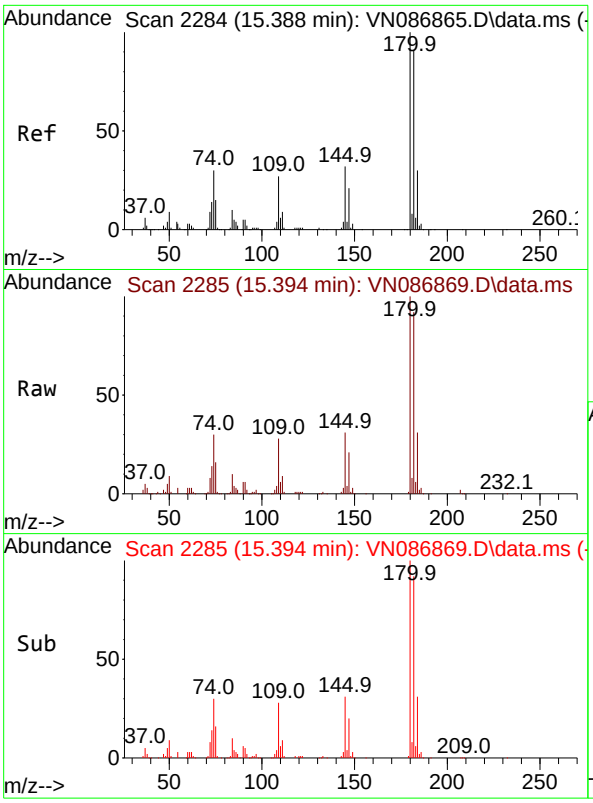


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.161 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 75 Resp: 50115

Ion	Ratio	Lower	Upper
75	100		
155	83.5	41.1	123.4
157	108.6	52.7	158.1

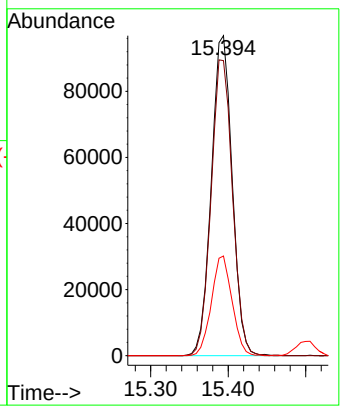




#93
1,2,4-Trichlorobenzene
Concen: 51.986 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:180 Resp: 18106

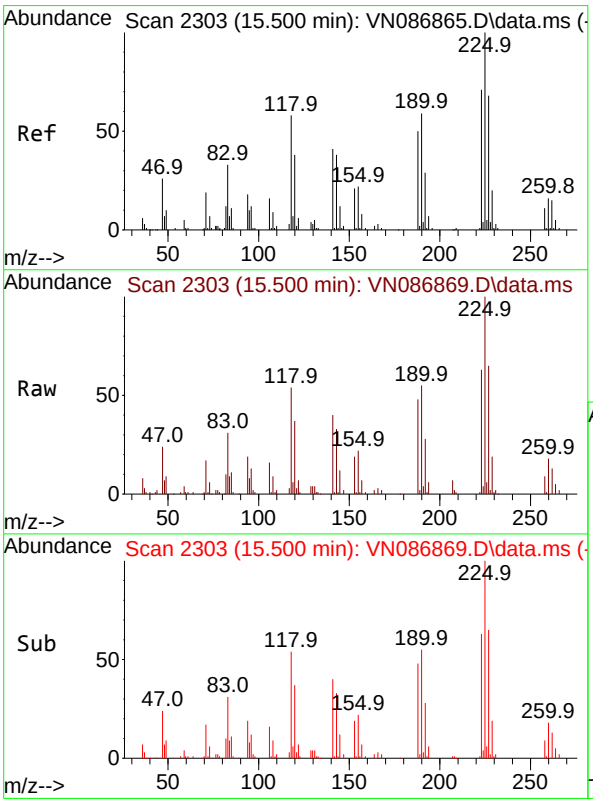
Ion	Ratio	Lower	Upper
180	100		
182	94.6	46.9	140.7
145	30.8	16.0	47.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

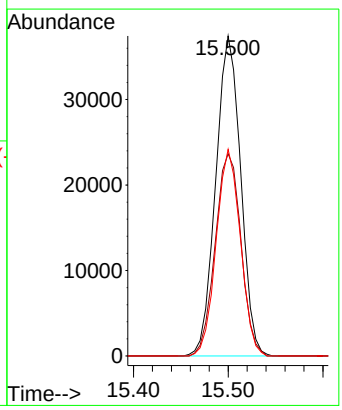
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

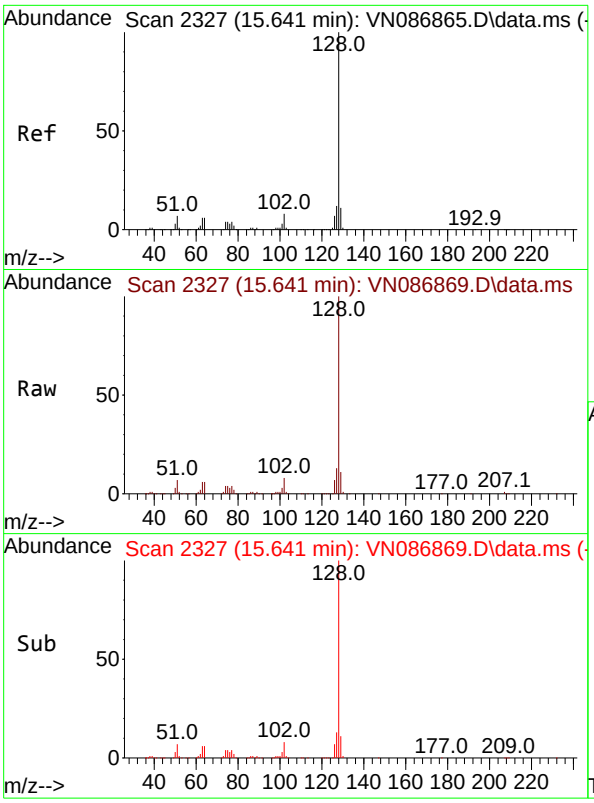


#94
Hexachlorobutadiene
Concen: 52.843 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:225 Resp: 68570

Ion	Ratio	Lower	Upper
225	100		
223	65.3	33.5	100.4
227	62.5	31.1	93.5

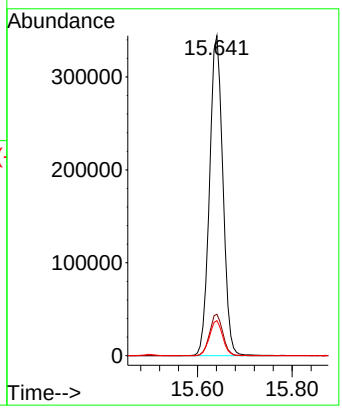




#95
Naphthalene
Concen: 52.005 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:128 Resp: 67418

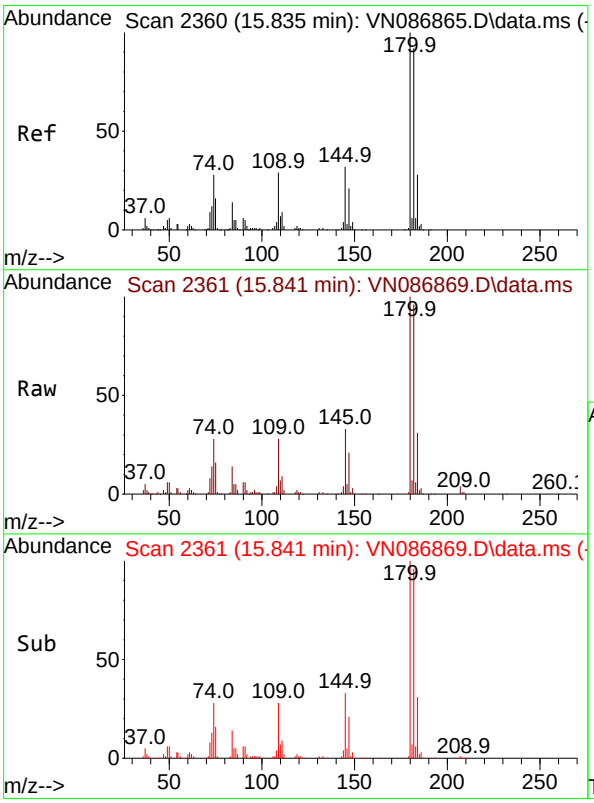
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations APPROVED

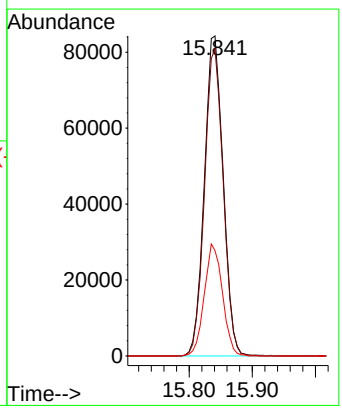
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.539 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:180 Resp: 174888

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.0	141.0
145	33.8	16.6	49.8



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	0.499	0.551	-10.4	116	0.00
3	P	Chloromethane	0.644	0.637	1.1	112	0.00
4	C	Vinyl Chloride	0.664	0.697	-5.0#	114	0.00
5	T	Bromomethane	0.372	0.411	-10.5	121	0.00
6	T	Chloroethane	0.429	0.439	-2.3	113	0.00
7	T	Trichlorofluoromethane	0.868	0.899	-3.6	113	0.00
8	T	Diethyl Ether	0.378	0.401	-6.1	116	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.545	0.585	-7.3	118	0.00
10	T	Methyl Iodide	0.707	0.752	-6.4	116	0.00
11	T	Tert butyl alcohol	0.182	0.191	-4.9	114	0.00
12	CM	1,1-Dichloroethene	0.557	0.575	-3.2#	113	0.00
13	T	Acrolein	0.057	0.055	3.5	128	0.00
14	T	Allyl chloride	0.923	0.932	-1.0	113	0.00
15	T	Acrylonitrile	0.425	0.440	-3.5	114	0.00
16	T	Acetone	0.355	0.350	1.4	114	0.00
17	T	Carbon Disulfide	1.539	1.556	-1.1	115	0.00
18	T	Methyl Acetate	1.035	1.074	-3.8	115	0.00
19	T	Methyl tert-butyl Ether	2.015	2.084	-3.4	113	0.00
20	T	Methylene Chloride	0.665	0.660	0.8	115	0.00
21	T	trans-1,2-Dichloroethene	0.619	0.612	1.1	113	0.00
22	T	Diisopropyl ether	1.945	2.018	-3.8	114	0.00
23	T	Vinyl Acetate	1.644	1.677	-2.0	111	0.00
24	P	1,1-Dichloroethane	1.120	1.153	-2.9	114	0.00
25	T	2-Butanone	0.577	0.591	-2.4	113	0.00
26	T	2,2-Dichloropropane	0.871	0.993	-14.0	116	0.00
27	T	cis-1,2-Dichloroethene	0.740	0.756	-2.2	114	0.00
28	T	Bromochloromethane	0.550	0.499	9.3	113	0.00
29	T	Tetrahydrofuran	0.376	0.386	-2.7	113	0.00
30	C	Chloroform	1.118	1.139	-1.9#	113	0.00
31	T	Cyclohexane	1.086	1.090	-0.4	114	0.00
32	T	1,1,1-Trichloroethane	0.951	0.962	-1.2	113	0.00
33	S	1,2-Dichloroethane-d4	0.669	0.698	-4.3	147	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35	S	Dibromofluoromethane	0.296	0.322	-8.8	153#	0.00
36	T	1,1-Dichloropropene	0.442	0.460	-4.1	115	0.00
37	T	Ethyl Acetate	0.562	0.563	-0.2	109	0.00
38	T	Carbon Tetrachloride	0.433	0.455	-5.1	116	0.00
39	T	Methylcyclohexane	0.605	0.637	-5.3	116	0.00
40	TM	Benzene	1.444	1.471	-1.9	114	0.00
41	T	Methacrylonitrile	0.316	0.332	-5.1	114	0.00
42	TM	1,2-Dichloroethane	0.438	0.451	-3.0	114	0.00
43	T	Isopropyl Acetate	0.902	0.912	-1.1	111	0.00
44	TM	Trichloroethene	0.342	0.355	-3.8	113	0.00
45	C	1,2-Dichloropropane	0.351	0.361	-2.8#	113	0.00
46	T	Dibromomethane	0.233	0.247	-6.0	116	0.00
47	T	Bromodichloromethane	0.480	0.498	-3.8	113	0.00
48	T	Methyl methacrylate	0.415	0.426	-2.7	113	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.008	0.008	0.0	112	0.00
50	S	Toluene-d8	1.173	1.246	-6.2	151#	0.00
51	T	4-Methyl-2-Pentanone	0.543	0.582	-7.2	113	0.00
52	CM	Toluene	0.882	0.918	-4.1#	114	0.00
53	T	t-1,3-Dichloropropene	0.537	0.570	-6.1	114	0.00
54	T	cis-1,3-Dichloropropene	0.574	0.603	-5.1	114	0.00
55	T	1,1,2-Trichloroethane	0.340	0.350	-2.9	113	0.00
56	T	Ethyl methacrylate	0.541	0.613	-13.3	115	0.00
57	T	1,3-Dichloropropane	0.589	0.605	-2.7	112	0.00
58	T	2-Chloroethyl Vinyl ether	0.323	0.317	1.9	120	0.00
59	T	2-Hexanone	0.350	0.397	-13.4	112	0.00
60	T	Dibromochloromethane	0.354	0.372	-5.1	114	0.00
61	T	1,2-Dibromoethane	0.348	0.361	-3.7	114	0.00
62	S	4-Bromofluorobenzene	0.436	0.471	-8.0	151#	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64	T	Tetrachloroethene	0.316	0.319	-0.9	114	0.00
65	PM	Chlorobenzene	1.103	1.122	-1.7	115	0.00
66	T	1,1,1,2-Tetrachloroethane	0.354	0.370	-4.5	115	0.00
67	C	Ethyl Benzene	1.899	1.960	-3.2#	114	0.00
68	T	m/p-Xylenes	0.727	0.756	-4.0	113	0.00
69	T	o-Xylene	0.696	0.730	-4.9	114	0.00
70	T	Styrene	1.192	1.257	-5.5	113	0.00
71	P	Bromoform	0.263	0.288	-9.5	114	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73	T	Isopropylbenzene	3.643	3.775	-3.6	114	0.00
74	T	N-amyl acetate	1.273	1.380	-8.4	112	0.00
75	P	1,1,2,2-Tetrachloroethane	1.234	1.278	-3.6	112	0.00
76	T	1,2,3-Trichloropropane	1.189	1.279	-7.6	112	0.00
77	T	Bromobenzene	0.835	0.874	-4.7	114	0.00
78	T	n-propylbenzene	4.427	4.639	-4.8	114	0.00
79	T	2-Chlorotoluene	2.655	2.742	-3.3	113	0.00
80	T	1,3,5-Trimethylbenzene	3.007	3.175	-5.6	113	0.00
81	T	trans-1,4-Dichloro-2-butene	0.516	0.575	-11.4	125	0.00
82	T	4-Chlorotoluene	2.686	2.787	-3.8	114	0.00
83	T	tert-Butylbenzene	2.753	2.892	-5.0	114	0.00
84	T	1,2,4-Trimethylbenzene	3.016	3.198	-6.0	113	0.00
85	T	sec-Butylbenzene	3.998	4.192	-4.9	113	0.00
86	T	p-Isopropyltoluene	3.305	3.514	-6.3	114	0.00
87	T	1,3-Dichlorobenzene	1.644	1.684	-2.4	112	0.00
88	T	1,4-Dichlorobenzene	1.676	1.728	-3.1	113	0.00
89	T	n-Butylbenzene	3.201	3.356	-4.8	113	0.00
90	T	Hexachloroethane	0.560	0.592	-5.7	114	0.00
91	T	1,2-Dichlorobenzene	1.579	1.621	-2.7	111	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.295	0.290	1.7	110	0.00
93	T	1,2,4-Trichlorobenzene	1.008	1.048	-4.0	112	0.00
94	T	Hexachlorobutadiene	0.376	0.397	-5.6	113	0.00
95	T	Naphthalene	3.753	3.904	-4.0	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	1.013	-1.1	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	50.000	55.286	-10.6	116	0.00
3	P	Chloromethane	50.000	49.505	1.0	112	0.00
4	C	Vinyl Chloride	50.000	52.451	-4.9#	114	0.00
5	T	Bromomethane	50.000	55.292	-10.6	121	0.00
6	T	Chloroethane	50.000	51.117	-2.2	113	0.00
7	T	Trichlorofluoromethane	50.000	51.819	-3.6	113	0.00
8	T	Diethyl Ether	50.000	53.001	-6.0	116	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	53.615	-7.2	118	0.00
10	T	Methyl Iodide	50.000	53.227	-6.5	116	0.00
11	T	Tert butyl alcohol	250.000	262.193	-4.9	114	0.00
12	CM	1,1-Dichloroethene	50.000	51.678	-3.4#	113	0.00
13	T	Acrolein	250.000	240.545	3.8	128	0.00
14	T	Allyl chloride	50.000	50.504	-1.0	113	0.00
15	T	Acrylonitrile	250.000	258.885	-3.6	114	0.00
16	T	Acetone	250.000	246.750	1.3	114	0.00
17	T	Carbon Disulfide	50.000	50.550	-1.1	115	0.00
18	T	Methyl Acetate	50.000	51.912	-3.8	115	0.00
19	T	Methyl tert-butyl Ether	50.000	51.720	-3.4	113	0.00
20	T	Methylene Chloride	50.000	49.617	0.8	115	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.437	1.1	113	0.00
22	T	Diisopropyl ether	50.000	51.853	-3.7	114	0.00
23	T	Vinyl Acetate	250.000	255.055	-2.0	111	0.00
24	P	1,1-Dichloroethane	50.000	51.487	-3.0	114	0.00
25	T	2-Butanone	250.000	255.897	-2.4	113	0.00
26	T	2,2-Dichloropropane	50.000	57.031	-14.1	116	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.073	-2.1	114	0.00
28	T	Bromochloromethane	50.000	45.310	9.4	113	0.00
29	T	Tetrahydrofuran	250.000	256.656	-2.7	113	0.00
30	C	Chloroform	50.000	50.933	-1.9#	113	0.00
31	T	Cyclohexane	50.000	50.212	-0.4	114	0.00
32	T	1,1,1-Trichloroethane	50.000	50.603	-1.2	113	0.00
33	S	1,2-Dichloroethane-d4	50.000	52.135	-4.3	147	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35	S	Dibromofluoromethane	50.000	54.416	-8.8	153	0.00
36	T	1,1-Dichloropropene	50.000	52.123	-4.2	115	0.00
37	T	Ethyl Acetate	50.000	50.125	-0.3	109	0.00
38	T	Carbon Tetrachloride	50.000	52.466	-4.9	116	0.00
39	T	Methylcyclohexane	50.000	52.686	-5.4	116	0.00
40	TM	Benzene	50.000	50.931	-1.9	114	0.00
41	T	Methacrylonitrile	50.000	52.607	-5.2	114	0.00
42	TM	1,2-Dichloroethane	50.000	51.489	-3.0	114	0.00
43	T	Isopropyl Acetate	50.000	50.536	-1.1	111	0.00
44	TM	Trichloroethene	50.000	51.788	-3.6	113	0.00
45	C	1,2-Dichloropropane	50.000	51.450	-2.9#	113	0.00
46	T	Dibromomethane	50.000	52.849	-5.7	116	0.00
47	T	Bromodichloromethane	50.000	51.824	-3.6	113	0.00
48	T	Methyl methacrylate	50.000	51.328	-2.7	113	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1110.123	-11.0	112	0.00
50	S	Toluene-d8	50.000	53.129	-6.3	151	0.00
51	T	4-Methyl-2-Pentanone	250.000	267.835	-7.1	113	0.00
52	CM	Toluene	50.000	52.040	-4.1#	114	0.00
53	T	t-1,3-Dichloropropene	50.000	53.137	-6.3	114	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.519	-5.0	114	0.00
55	T	1,1,2-Trichloroethane	50.000	51.562	-3.1	113	0.00
56	T	Ethyl methacrylate	50.000	56.688	-13.4	115	0.00
57	T	1,3-Dichloropropane	50.000	51.386	-2.8	112	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	246.006	1.6	120	0.00
59	T	2-Hexanone	250.000	283.478	-13.4	112	0.00
60	T	Dibromochloromethane	50.000	52.627	-5.3	114	0.00
61	T	1,2-Dibromoethane	50.000	51.887	-3.8	114	0.00
62	S	4-Bromofluorobenzene	50.000	54.081	-8.2	151	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
64	T	Tetrachloroethene	50.000	50.450	-0.9	114	0.00
65	PM	Chlorobenzene	50.000	50.892	-1.8	115	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.164	-4.3	115	0.00
67	C	Ethyl Benzene	50.000	51.590	-3.2#	114	0.00
68	T	m/p-Xylenes	100.000	103.912	-3.9	113	0.00
69	T	o-Xylene	50.000	52.387	-4.8	114	0.00
70	T	Styrene	50.000	52.758	-5.5	113	0.00
71	P	Bromoform	50.000	54.751	-9.5	114	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73	T	Isopropylbenzene	50.000	51.823	-3.6	114	0.00
74	T	N-amyl acetate	50.000	54.212	-8.4	112	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.763	-3.5	112	0.00
76	T	1,2,3-Trichloropropane	50.000	53.821	-7.6	112	0.00
77	T	Bromobenzene	50.000	52.313	-4.6	114	0.00
78	T	n-propylbenzene	50.000	52.397	-4.8	114	0.00
79	T	2-Chlorotoluene	50.000	51.650	-3.3	113	0.00
80	T	1,3,5-Trimethylbenzene	50.000	52.787	-5.6	113	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	55.702	-11.4	125	0.00
82	T	4-Chlorotoluene	50.000	51.884	-3.8	114	0.00
83	T	tert-Butylbenzene	50.000	52.532	-5.1	114	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.024	-6.0	113	0.00
85	T	sec-Butylbenzene	50.000	52.428	-4.9	113	0.00
86	T	p-Isopropyltoluene	50.000	53.174	-6.3	114	0.00
87	T	1,3-Dichlorobenzene	50.000	51.224	-2.4	112	0.00
88	T	1,4-Dichlorobenzene	50.000	51.557	-3.1	113	0.00
89	T	n-Butylbenzene	50.000	52.424	-4.8	113	0.00
90	T	Hexachloroethane	50.000	52.847	-5.7	114	0.00
91	T	1,2-Dichlorobenzene	50.000	51.340	-2.7	111	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.161	1.7	110	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.986	-4.0	112	0.00
94	T	Hexachlorobutadiene	50.000	52.843	-5.7	113	0.00
95	T	Naphthalene	50.000	52.005	-4.0	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.539	-1.1	110	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date/Time: 06/17/2025 09:25

Lab File ID: VN087045.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.499	0.589		18.04	20
Chloromethane	0.644	0.606	0.1	-5.9	20
Vinyl Chloride	0.664	0.787		18.52	20
Bromomethane	0.372	0.356		-4.3	20
Chloroethane	0.429	0.494		15.15	20
Trichlorofluoromethane	0.868	1.010		16.36	20
1,1,2-Trichlorotrifluoroethane	0.545	0.630		15.6	20
1,1-Dichloroethene	0.557	0.639		14.72	20
Acetone	0.355	0.377		6.2	20
Carbon Disulfide	1.539	1.891		22.87	20
Methyl tert-butyl Ether	2.015	2.142		6.3	20
Methyl Acetate	1.035	0.892		-13.82	20
Methylene Chloride	0.665	0.719		8.12	20
trans-1,2-Dichloroethene	0.619	0.683		10.34	20
1,1-Dichloroethane	1.120	1.224	0.1	9.29	20
Cyclohexane	1.086	1.096		0.92	20
2-Butanone	0.577	0.533		-7.63	20
Carbon Tetrachloride	0.433	0.499		15.24	20
cis-1,2-Dichloroethene	0.740	0.822		11.08	20
Bromochloromethane	0.550	0.446		-18.91	20
Chloroform	1.118	1.212		8.41	20
1,1,1-Trichloroethane	0.951	1.020		7.26	20
Methylcyclohexane	0.605	0.619		2.31	20
Benzene	1.444	1.635		13.23	20
1,2-Dichloroethane	0.438	0.487		11.19	20
Trichloroethene	0.342	0.394		15.2	20
1,2-Dichloropropane	0.351	0.393		11.97	20
Bromodichloromethane	0.480	0.543		13.13	20
4-Methyl-2-Pentanone	0.543	0.560		3.13	20
Toluene	0.882	1.011		14.63	20
t-1,3-Dichloropropene	0.537	0.611		13.78	20
cis-1,3-Dichloropropene	0.574	0.657		14.46	20
1,1,2-Trichloroethane	0.340	0.378		11.18	20
2-Hexanone	0.350	0.372		6.29	20
Dibromochloromethane	0.354	0.410		15.82	20
1,2-Dibromoethane	0.348	0.393		12.93	20
Tetrachloroethene	0.316	0.349		10.44	20
Chlorobenzene	1.103	1.212	0.3	9.88	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date/Time: 06/17/2025 09:25

Lab File ID: VN087045.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.900	2.062		8.53	20
m/p-Xylenes	0.727	0.826		13.62	20
o-Xylene	0.696	0.785		12.79	20
Styrene	1.192	1.347		13	20
Bromoform	0.263	0.307	0.1	16.73	20
Isopropylbenzene	3.643	3.903		7.14	20
1,1,2,2-Tetrachloroethane	1.234	1.342	0.3	8.75	20
1,3-Dichlorobenzene	1.644	1.804		9.73	20
1,4-Dichlorobenzene	1.676	1.853		10.56	20
1,2-Dichlorobenzene	1.579	1.727		9.37	20
1,2-Dibromo-3-Chloropropane	0.295	0.294		-0.34	20
1,2,4-Trichlorobenzene	1.008	0.978		-2.98	20
1,2,3-Trichlorobenzene	1.002	0.936		-6.59	20
1,2-Dichloroethane-d4	0.669	0.621		-7.18	20
Dibromofluoromethane	0.296	0.308		4.05	20
Toluene-d8	1.173	1.147		-2.22	20
4-Bromofluorobenzene	0.436	0.427		-2.06	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_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	178887	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	312096	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	278021	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	137590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	111173	46.417	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.840%			
35) Dibromofluoromethane	8.177	113	95983	51.895	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.800%			
50) Toluene-d8	10.565	98	358050	48.901	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.800%			
62) 4-Bromofluorobenzene	12.847	95	133394	49.036	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.080%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	105437	59.114	ug/l	100
3) Chloromethane	2.395	50	108375	47.054	ug/l	99
4) Vinyl Chloride	2.553	62	140696	59.218	ug/l	99
5) Bromomethane	2.995	94	63664	47.883	ug/l	98
6) Chloroethane	3.159	64	88430	57.621	ug/l	92
7) Trichlorofluoromethane	3.530	101	180597	58.179	ug/l	98
8) Diethyl Ether	3.983	74	75753	56.010	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.400	101	112692	57.783	ug/l	98
10) Methyl Iodide	4.612	142	70472	27.875	ug/l	98
11) Tert butyl alcohol	5.536	59	145967	224.604	ug/l	100
12) 1,1-Dichloroethene	4.365	96	114343	57.428	ug/l	95
13) Acrolein	4.206	56	35237	171.293	ug/l	99
14) Allyl chloride	5.047	41	166948	50.559	ug/l	96
15) Acrylonitrile	5.736	53	385697	253.912	ug/l	99
16) Acetone	4.442	43	337624	265.816	ug/l	97
17) Carbon Disulfide	4.742	76	338278	61.422	ug/l	100
18) Methyl Acetate	5.047	43	159602	43.119	ug/l	98
19) Methyl tert-butyl Ether	5.812	73	383089	53.139	ug/l	100
20) Methylene Chloride	5.294	84	128619	54.089	ug/l	95
21) trans-1,2-Dichloroethene	5.806	96	122249	55.186	ug/l	94
22) Diisopropyl ether	6.688	45	357872	51.415	ug/l	97
23) Vinyl Acetate	6.618	43	1581728	268.963	ug/l	97
24) 1,1-Dichloroethane	6.588	63	219016	54.677	ug/l	99
25) 2-Butanone	7.494	43	476455	230.777	ug/l	97
26) 2,2-Dichloropropane	7.500	77	189738	60.894	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	147033	55.499	ug/l	99
28) Bromochloromethane	7.824	49	79836	40.537	ug/l	93
29) Tetrahydrofuran	7.847	42	318733	236.990	ug/l	96
30) Chloroform	7.977	83	216737	54.181	ug/l	98
31) Cyclohexane	8.265	56	196017	50.460	ug/l	96
32) 1,1,1-Trichloroethane	8.177	97	182413	53.614	ug/l	97
36) 1,1-Dichloropropene	8.382	75	161052	58.436	ug/l	100
37) Ethyl Acetate	7.571	43	184563	52.606	ug/l	99
38) Carbon Tetrachloride	8.371	117	155867	57.605	ug/l	98
39) Methylcyclohexane	9.606	83	193140	51.151	ug/l	95
40) Benzene	8.612	78	510124	56.603	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.783	41	97416	49.441 ug/l		94
42) 1,2-Dichloroethane	8.677	62	152007	55.609 ug/l		99
43) Isopropyl Acetate	8.694	43	283428	50.333 ug/l		97
44) Trichloroethene	9.359	130	122896	57.509 ug/l		98
45) 1,2-Dichloropropane	9.624	63	122677	55.952 ug/l		97
46) Dibromomethane	9.712	93	85210	58.510 ug/l		99
47) Bromodichloromethane	9.888	83	169444	56.550 ug/l		98
48) Methyl methacrylate	9.682	41	130292	50.271 ug/l		95
49) 1,4-Dioxane	9.700	88	49294	1045.473 ug/l	#	99
51) 4-Methyl-2-Pentanone	10.447	43	873718	257.739 ug/l		97
52) Toluene	10.629	92	315522	57.288 ug/l		99
53) t-1,3-Dichloropropene	10.835	75	190622	56.893 ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	205171	57.231 ug/l		100
55) 1,1,2-Trichloroethane	11.018	97	118127	55.740 ug/l		99
56) Ethyl methacrylate	10.876	69	195696	57.976 ug/l		94
57) 1,3-Dichloropropane	11.165	76	205677	55.947 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	490344	243.555 ug/l		99
59) 2-Hexanone	11.200	43	579829	265.542 ug/l		94
60) Dibromochloromethane	11.359	129	127864	57.909 ug/l		98
61) 1,2-Dibromoethane	11.471	107	122619	56.449 ug/l		99
64) Tetrachloroethene	11.106	164	97132	55.204 ug/l		96
65) Chlorobenzene	11.888	112	337054	54.968 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	110500	56.061 ug/l		99
67) Ethyl Benzene	11.965	91	573298	54.279 ug/l		98
68) m/p-Xylenes	12.070	106	459223	113.581 ug/l		97
69) o-Xylene	12.394	106	218362	56.391 ug/l		96
70) Styrene	12.412	104	374480	56.515 ug/l		99
71) Bromoform	12.576	173	85445	58.506 ug/l	#	99
73) Isopropylbenzene	12.694	105	537032	53.577 ug/l		99
74) N-amyl acetate	12.512	43	160037	45.690 ug/l	#	90
75) 1,1,2,2-Tetrachloroethane	12.935	83	184655	54.378 ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	153305m	46.874 ug/l		
77) Bromobenzene	12.982	156	131485	57.199 ug/l		96
78) n-propylbenzene	13.035	91	641851	52.692 ug/l		99
79) 2-Chlorotoluene	13.123	91	385196	52.729 ug/l		98
80) 1,3,5-Trimethylbenzene	13.170	105	443295	53.566 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	70905m	49.906 ug/l		
82) 4-Chlorotoluene	13.217	91	398180	53.869 ug/l		99
83) tert-Butylbenzene	13.435	119	378527	49.969 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	446609	53.818 ug/l		99
85) sec-Butylbenzene	13.612	105	539504	49.041 ug/l		99
86) p-Isopropyltoluene	13.729	119	458085	50.373 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	248250	54.889 ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	254911	55.283 ug/l		99
89) n-Butylbenzene	14.053	91	406564	46.157 ug/l		99
90) Hexachloroethane	14.329	117	80443	52.187 ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	237605	54.682 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	40448	49.806 ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	134529	48.485 ug/l		99
94) Hexachlorobutadiene	15.494	225	38343	37.091 ug/l		99
95) Naphthalene	15.635	128	529854	51.304 ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	128848	46.739 ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

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

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

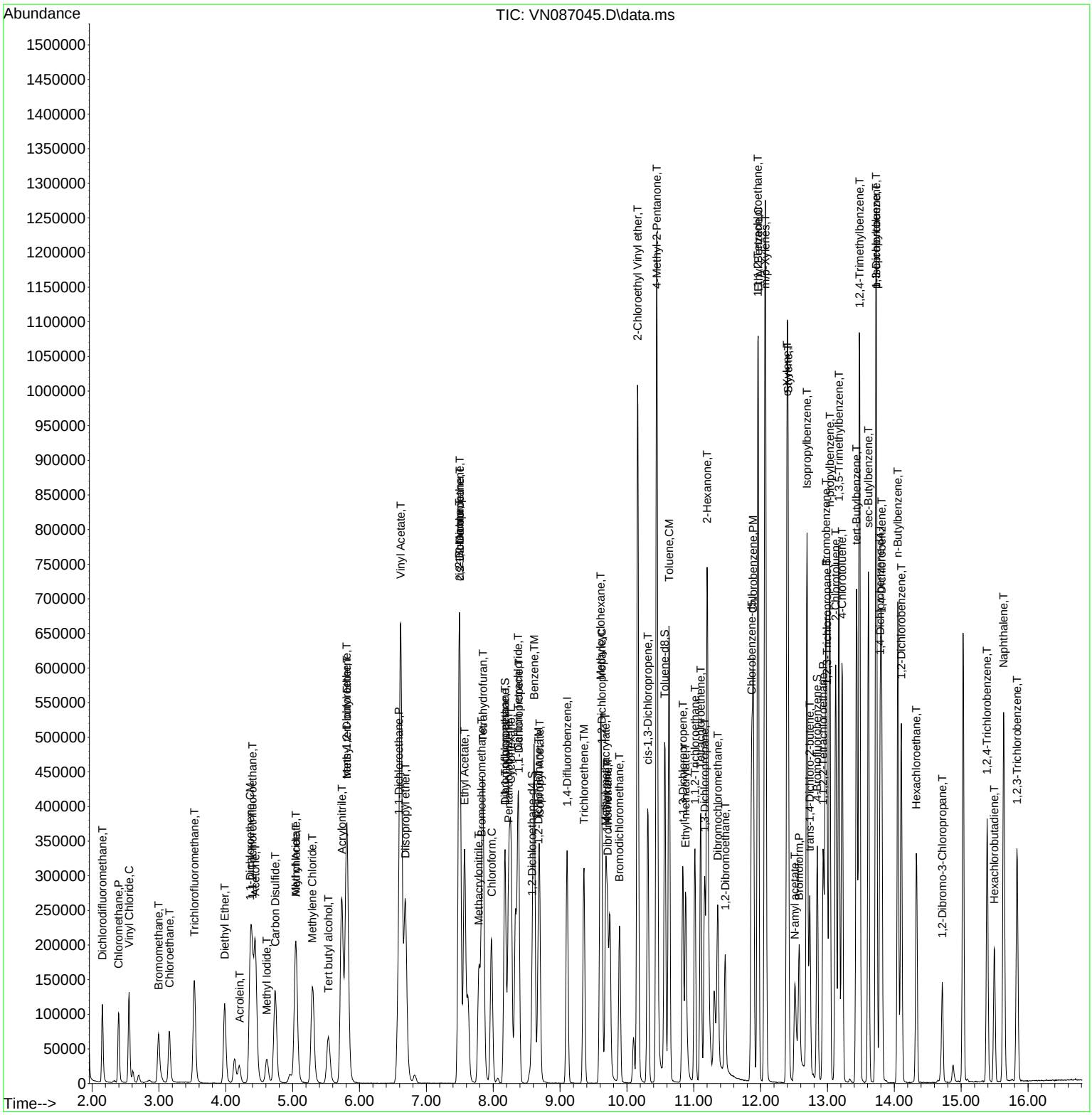
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

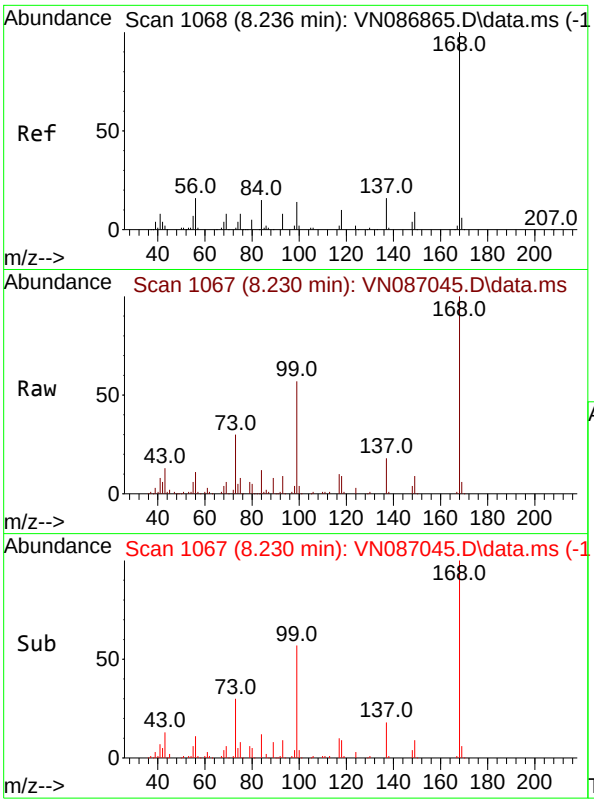
Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

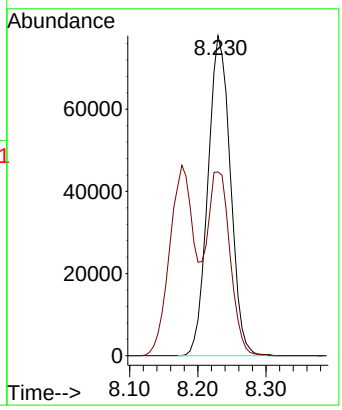




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:168 Resp: 17888

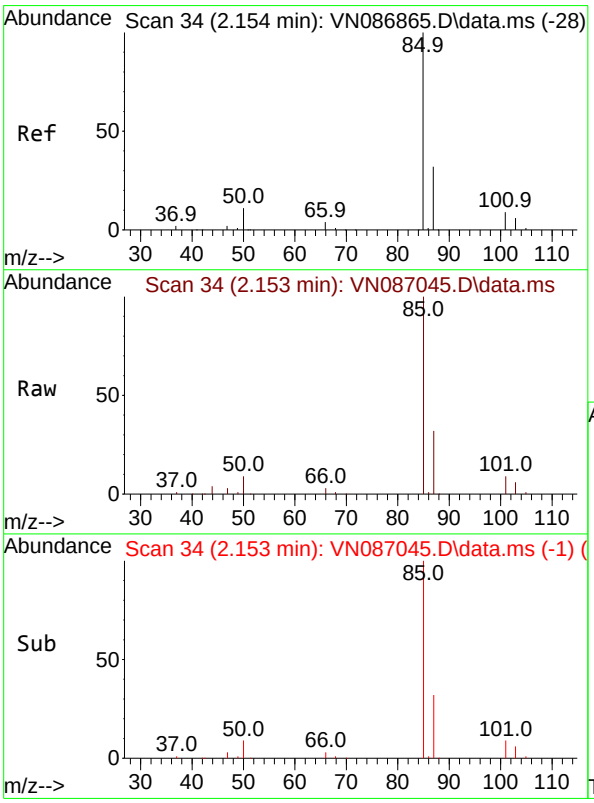
Ion	Ratio	Lower	Upper
168	100		
99	57.4	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

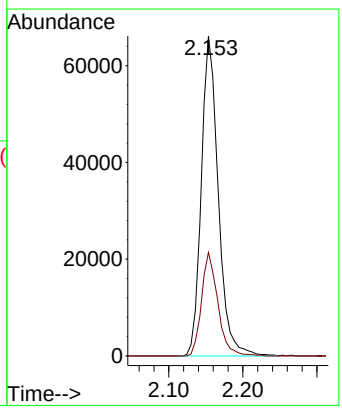
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

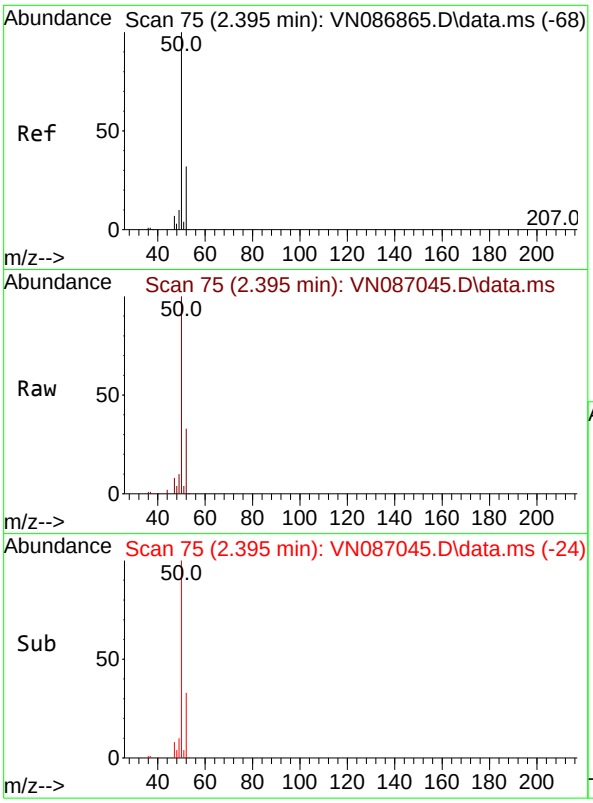


#2
Dichlorodifluoromethane
Concen: 59.114 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 85 Resp: 105437

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.2	48.6

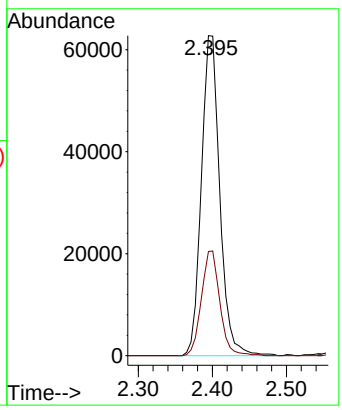




#3
Chloromethane
Concen: 47.054 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 50 Resp: 10837

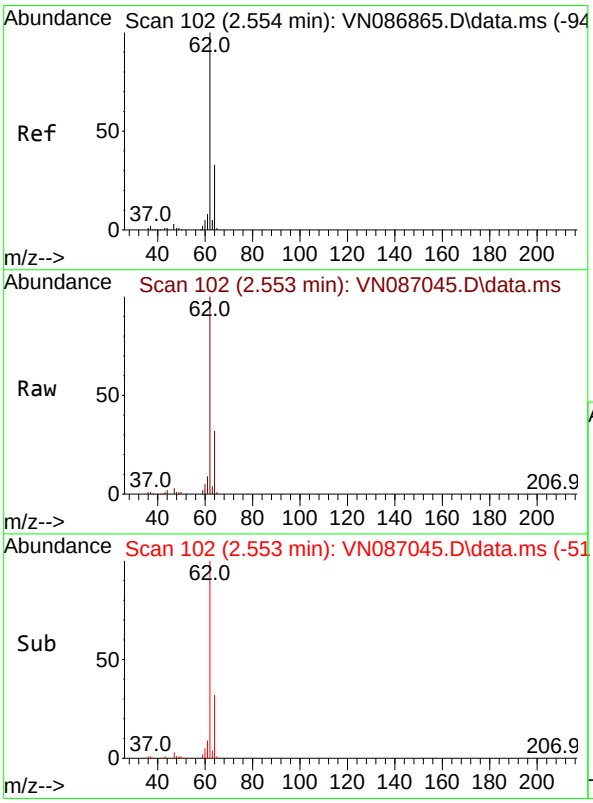
Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

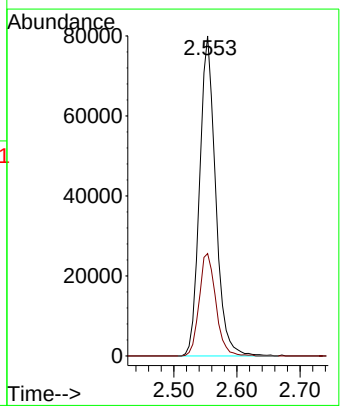
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

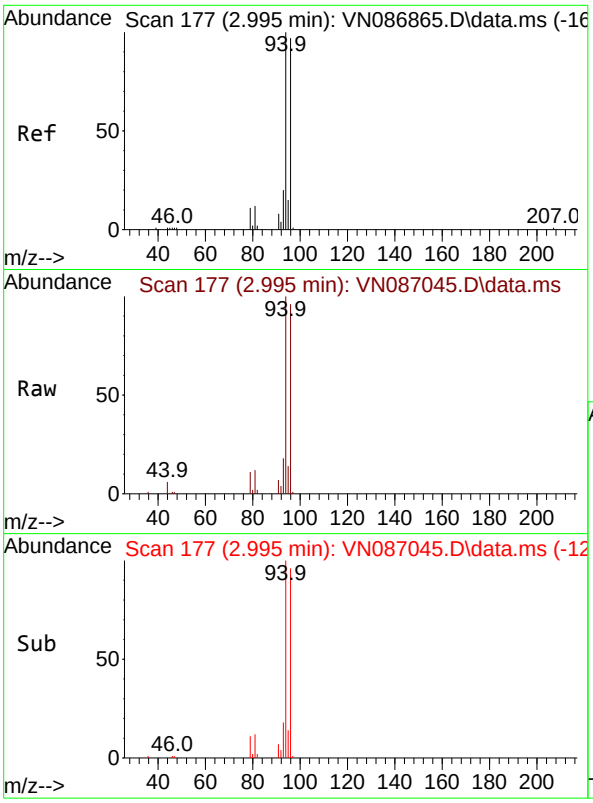


#4
Vinyl Chloride
Concen: 59.218 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 62 Resp: 140696

Ion	Ratio	Lower	Upper
62	100		
64	32.0	26.0	39.0

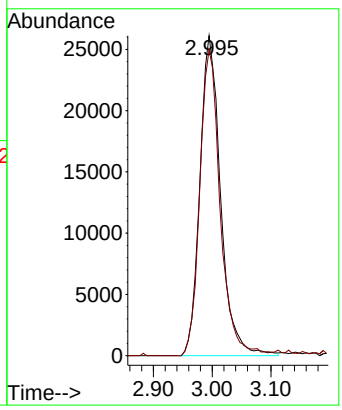




#5
Bromomethane
Concen: 47.883 ug/l
RT: 2.995 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 94 Resp: 6366

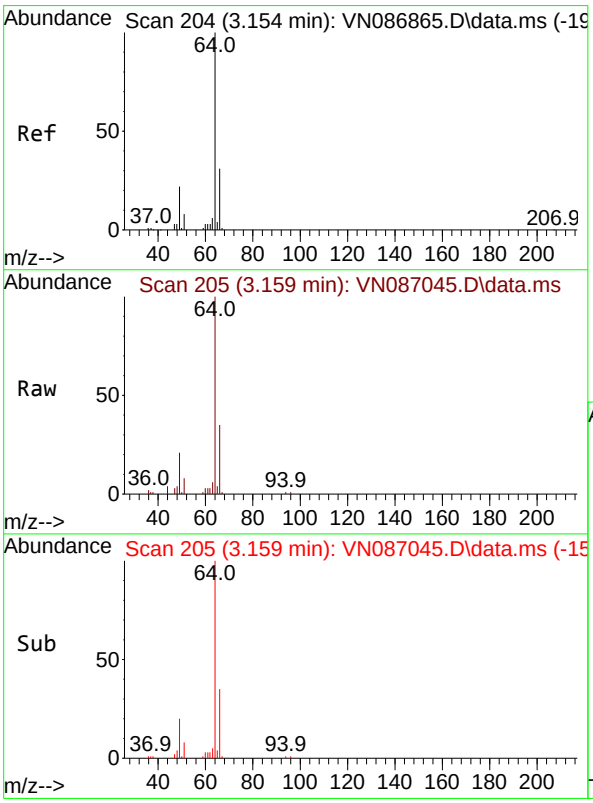
Ion	Ratio	Lower	Upper
94	100		
96	95.7	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

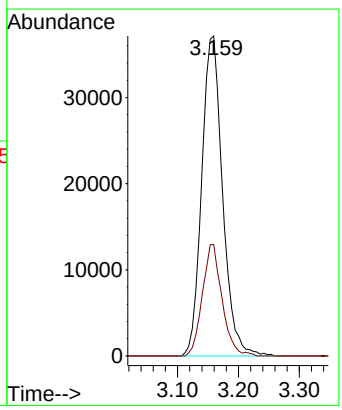
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

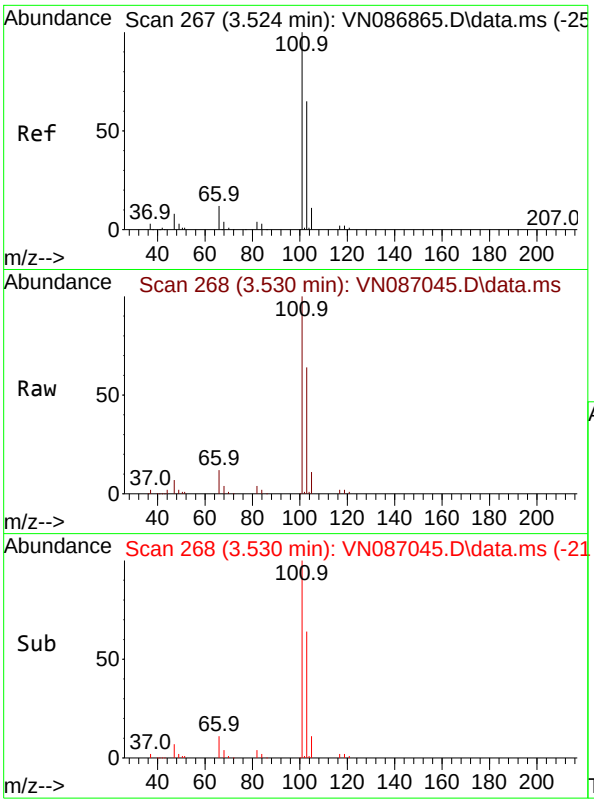


#6
Chloroethane
Concen: 57.621 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 64 Resp: 88430

Ion	Ratio	Lower	Upper
64	100		
66	34.8	24.6	36.8

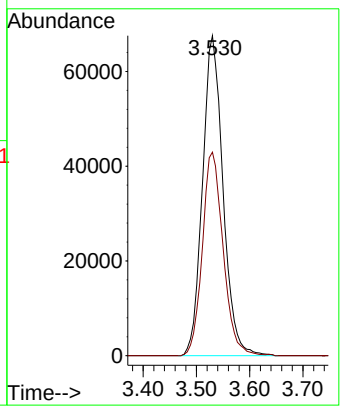




#7
Trichlorofluoromethane
Concen: 58.179 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:101 Resp: 18059

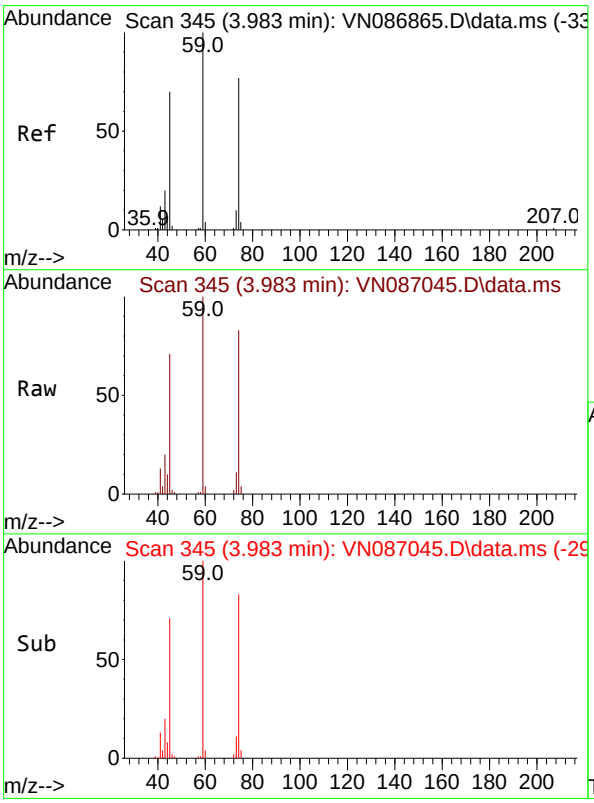
Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.2	78.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

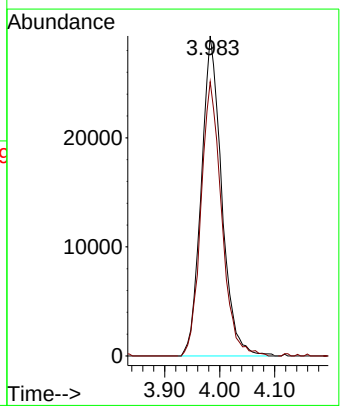
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

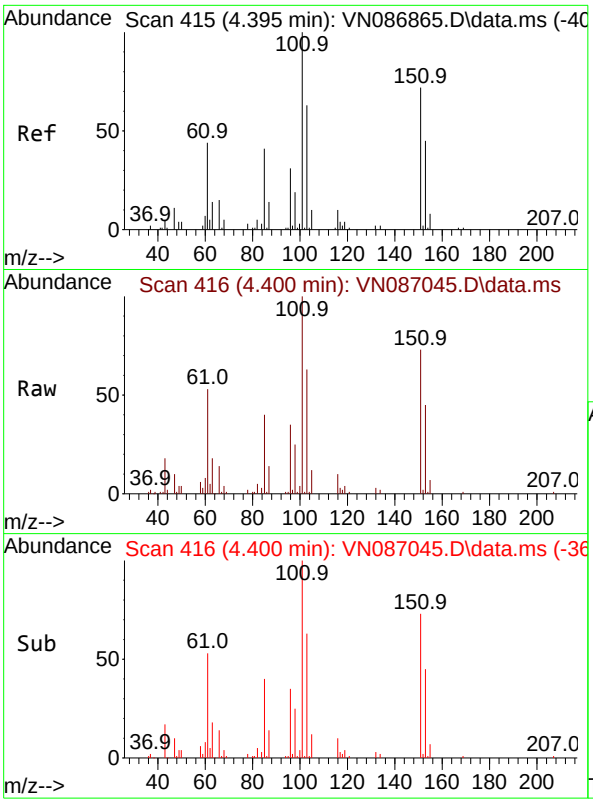


#8
Diethyl Ether
Concen: 56.010 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 74 Resp: 75753

Ion	Ratio	Lower	Upper
74	100		
45	86.7	45.5	136.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 57.783 ug/l
RT: 4.400 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

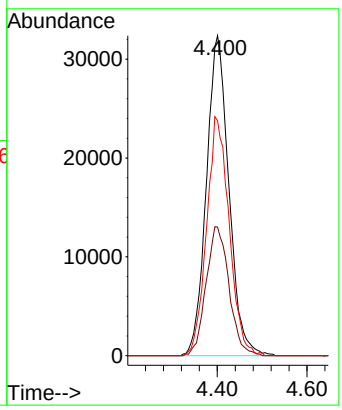
Tgt Ion:101 Resp: 11269

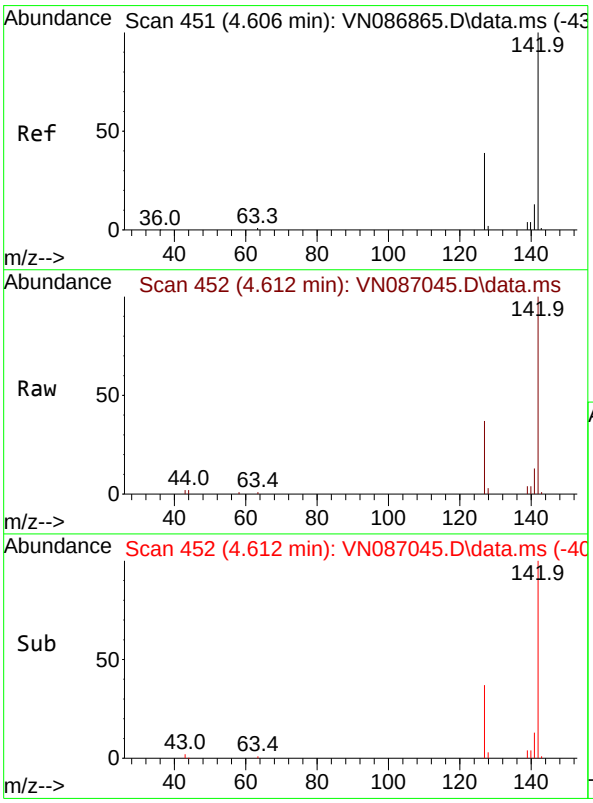
Ion	Ratio	Lower	Upper
101	100		
85	41.2	33.8	50.8
151	75.0	58.7	88.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

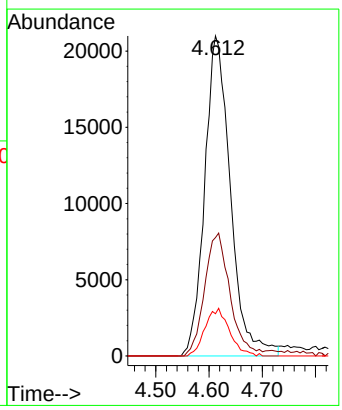


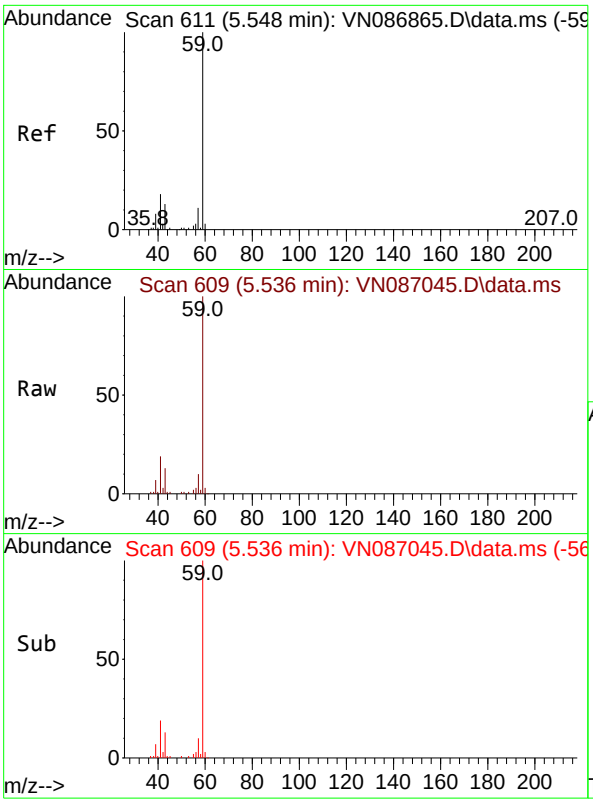


#10
Methyl Iodide
Concen: 27.875 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:142 Resp: 70472

Ion	Ratio	Lower	Upper
142	100		
127	37.0	30.9	46.3
141	13.2	10.4	15.6

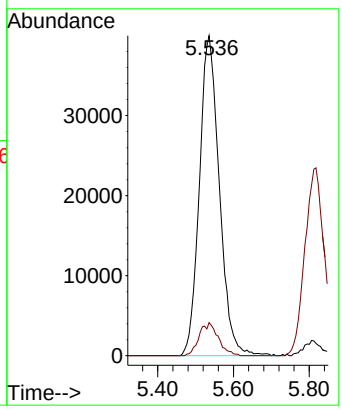




#11
Tert butyl alcohol
Concen: 224.604 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 59 Resp: 14596

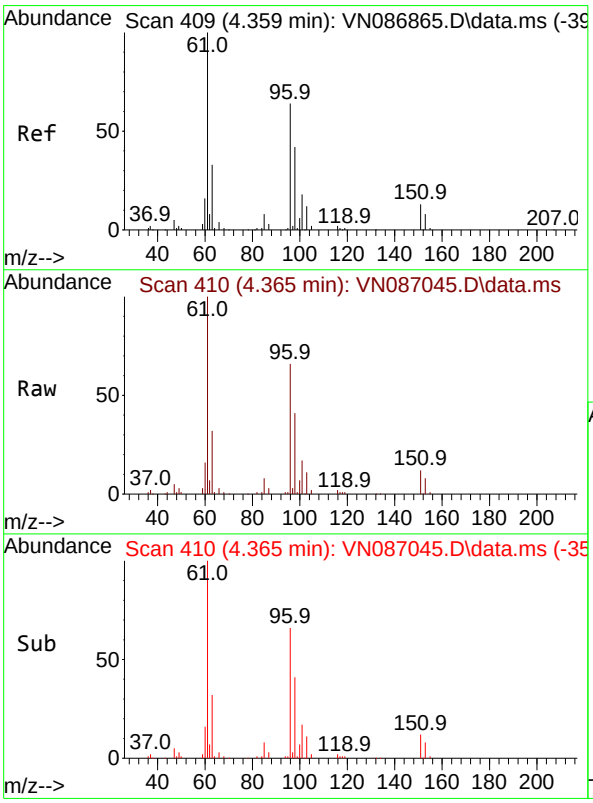
Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

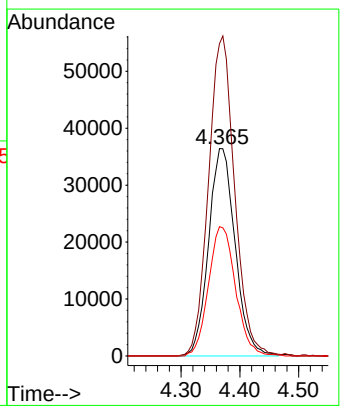
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

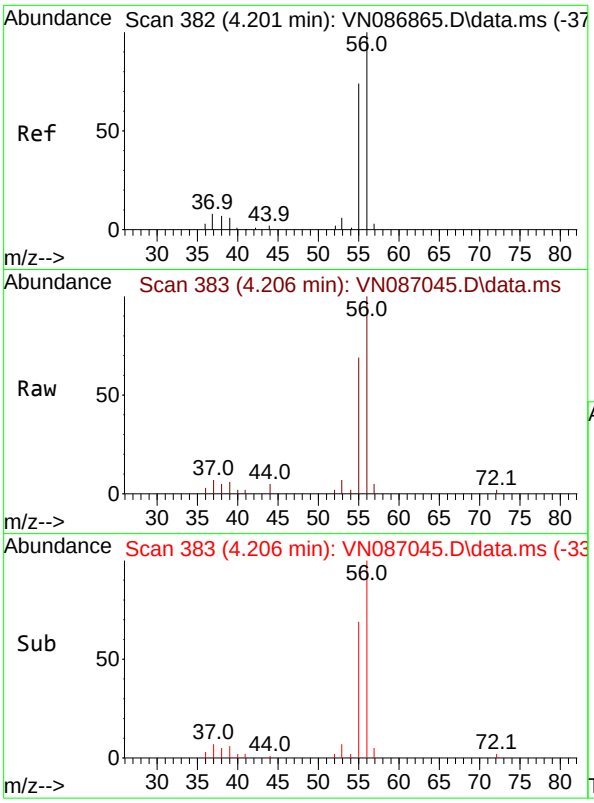


#12
1,1-Dichloroethene
Concen: 57.428 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 96 Resp: 114343

Ion	Ratio	Lower	Upper
96	100		
61	150.6	125.8	188.6
98	62.3	52.5	78.7

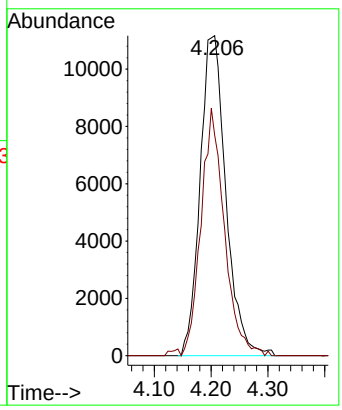




#13
Acrolein
Concen: 171.293 ug/l
RT: 4.206 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 56 Resp: 3523

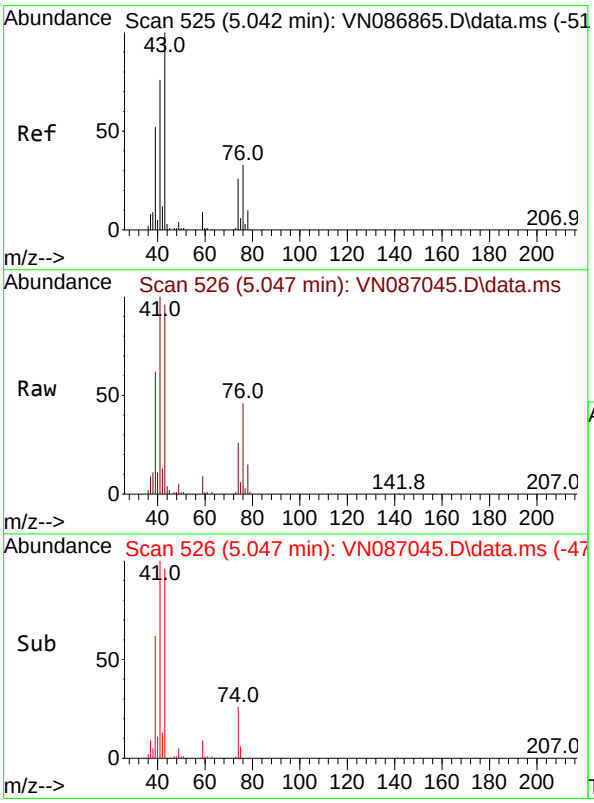
Ion	Ratio	Lower	Upper
56	100		
55	70.0	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

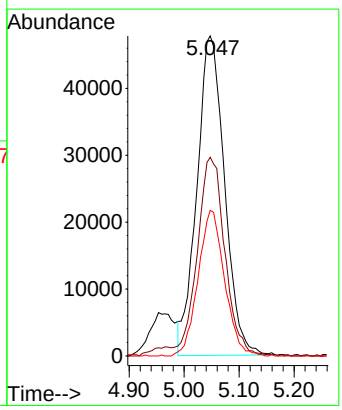
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

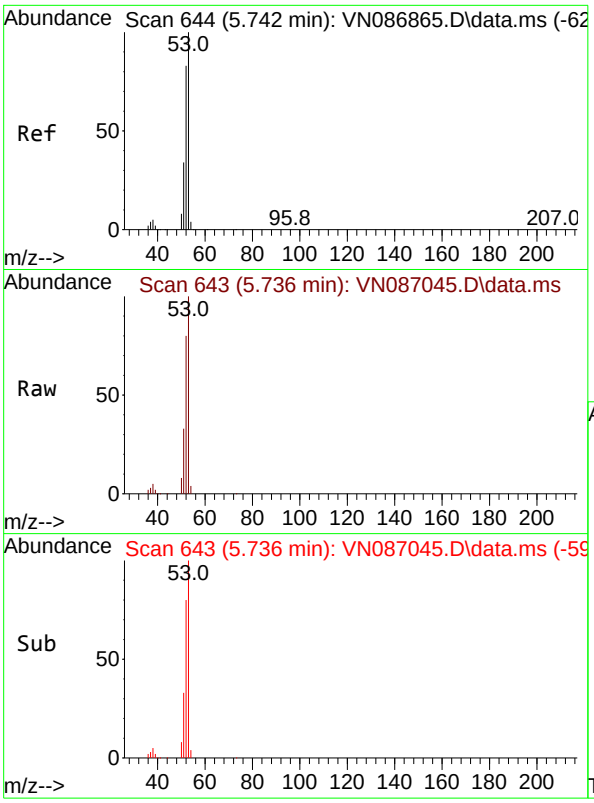


#14
Allyl chloride
Concen: 50.559 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 41 Resp: 166948

Ion	Ratio	Lower	Upper
41	100		
39	62.4	51.3	76.9
76	43.6	31.4	47.0

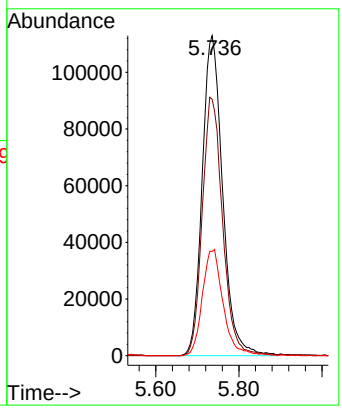




#15
Acrylonitrile
Concen: 253.912 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 53 Resp: 38569

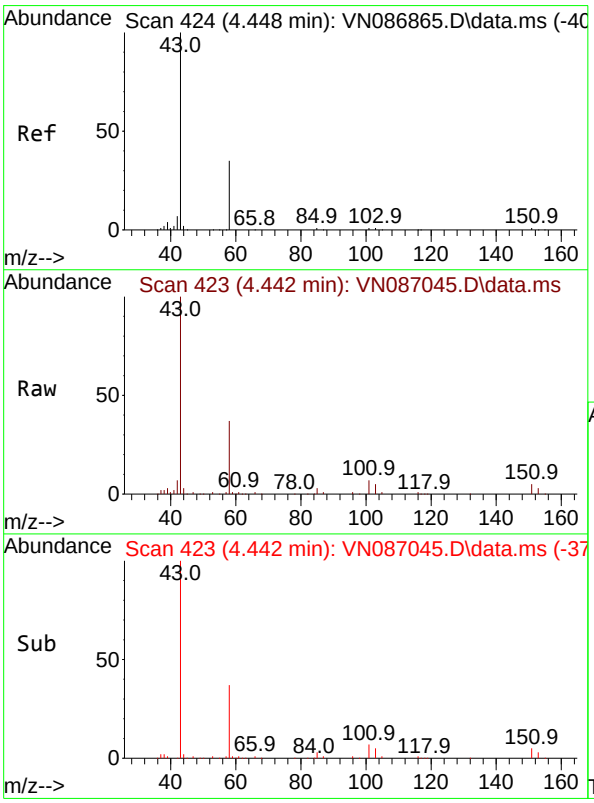
Ion	Ratio	Lower	Upper
53	100		
52	80.4	65.0	97.6
51	33.7	27.2	40.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

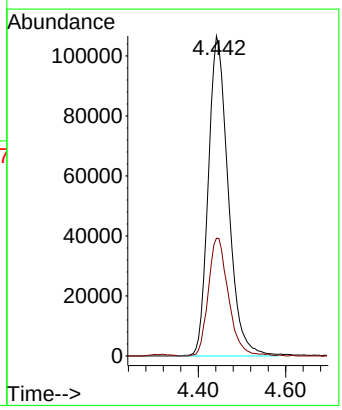
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

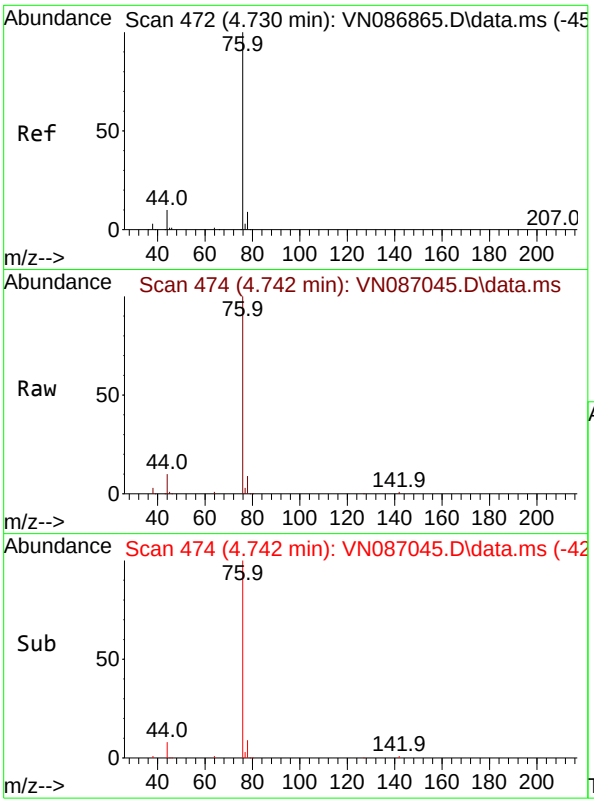


#16
Acetone
Concen: 265.816 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 43 Resp: 337624

Ion	Ratio	Lower	Upper
43	100		
58	36.8	28.0	42.0

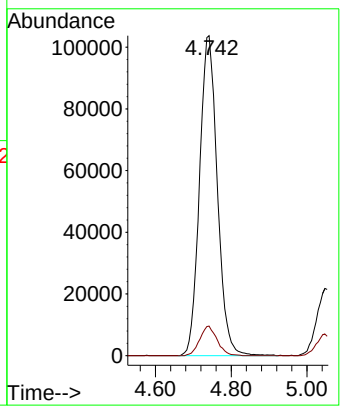




#17
Carbon Disulfide
Concen: 61.422 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 76 Resp: 33827

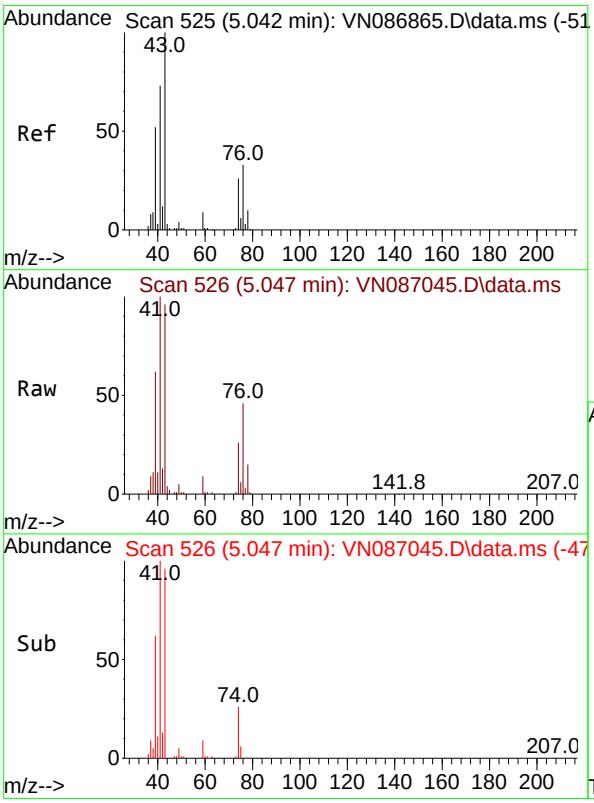
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

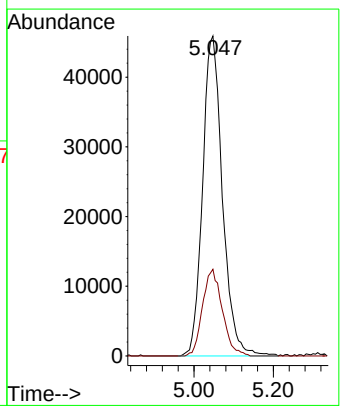
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

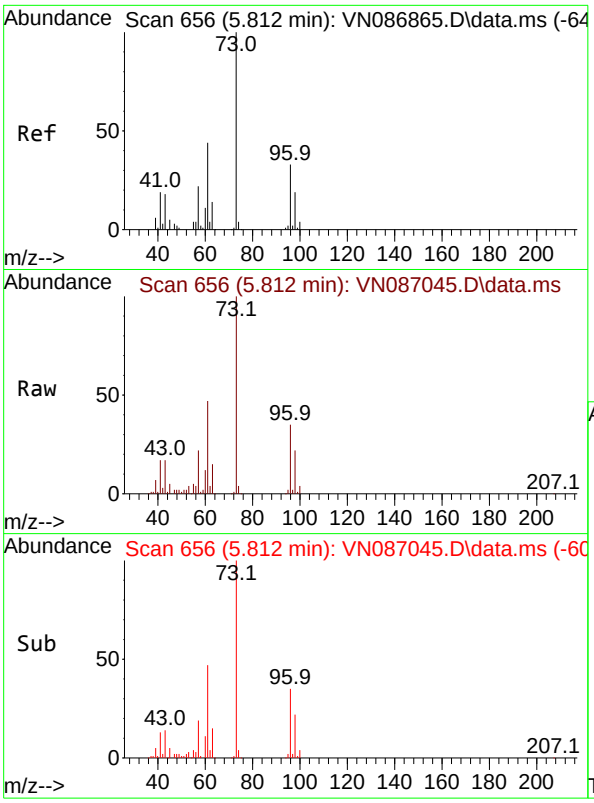


#18
Methyl Acetate
Concen: 43.119 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 43 Resp: 159602

Ion	Ratio	Lower	Upper
43	100		
74	26.9	20.7	31.1

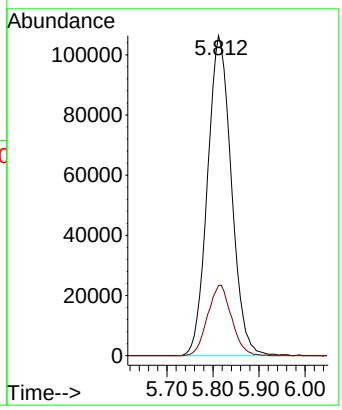




#19
Methyl tert-butyl Ether
Concen: 53.139 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 73 Resp: 38308

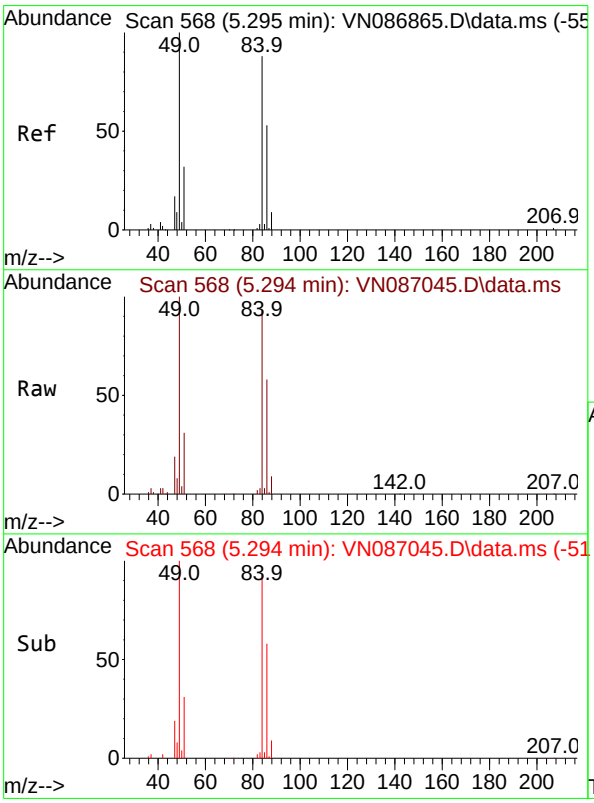
Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

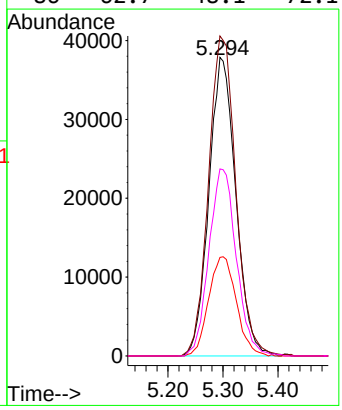
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

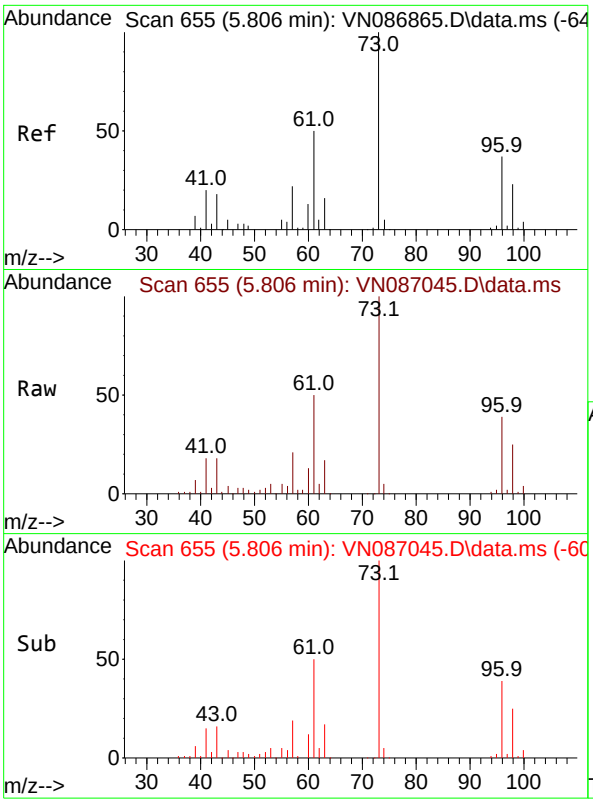


#20
Methylene Chloride
Concen: 54.089 ug/l
RT: 5.294 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 84 Resp: 128619

Ion	Ratio	Lower	Upper
84	100		
49	107.2	90.5	135.7
51	33.0	28.5	42.7
86	62.7	48.1	72.1

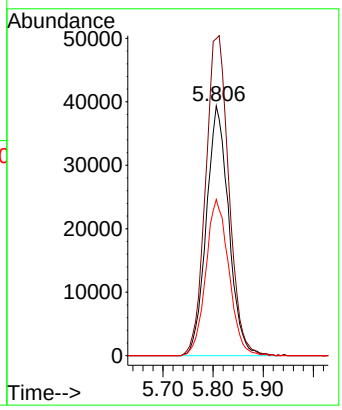




#21
trans-1,2-Dichloroethene
Concen: 55.186 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 96 Resp: 12224

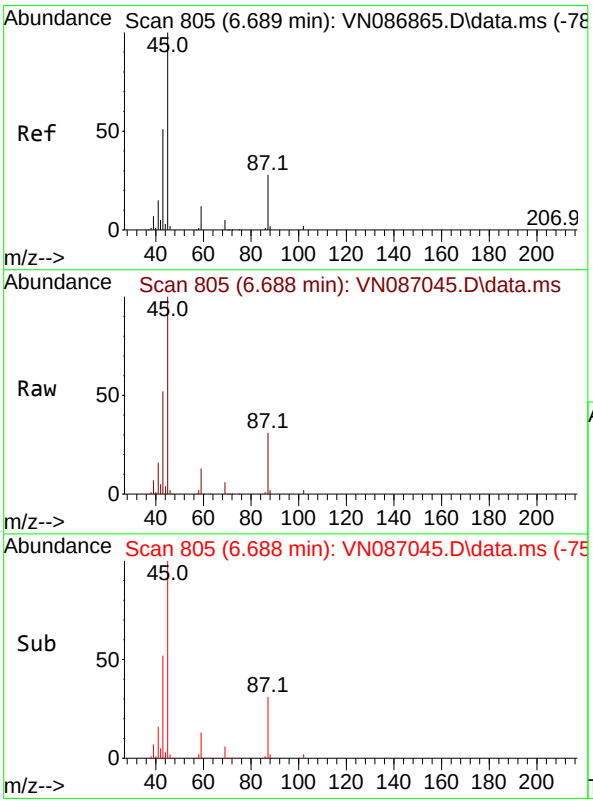
Ion	Ratio	Lower	Upper
96	100		
61	126.9	109.2	163.8
98	62.5	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

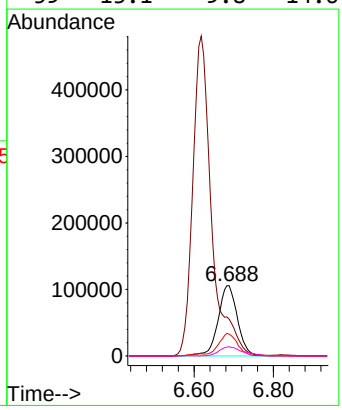
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

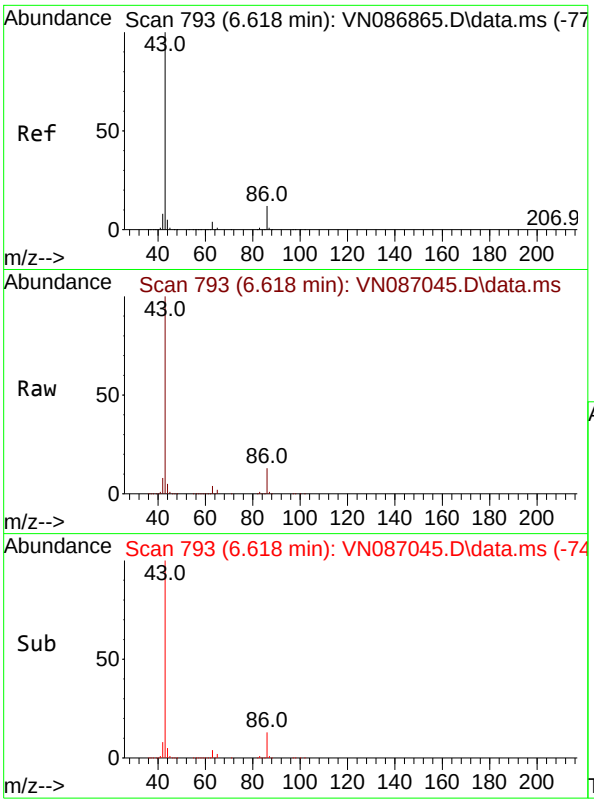


#22
Diisopropyl ether
Concen: 51.415 ug/l
RT: 6.688 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 45 Resp: 357872

Ion	Ratio	Lower	Upper
45	100		
43	50.7	41.9	62.9
87	30.9	22.4	33.6
59	13.1	9.8	14.6

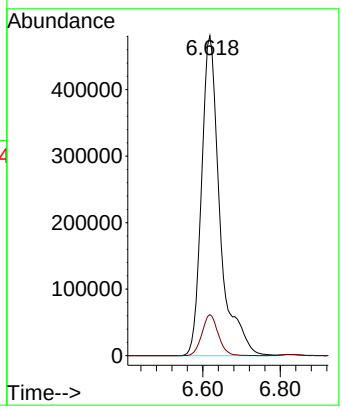




#23
Vinyl Acetate
Concen: 268.963 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 43 Resp: 158172

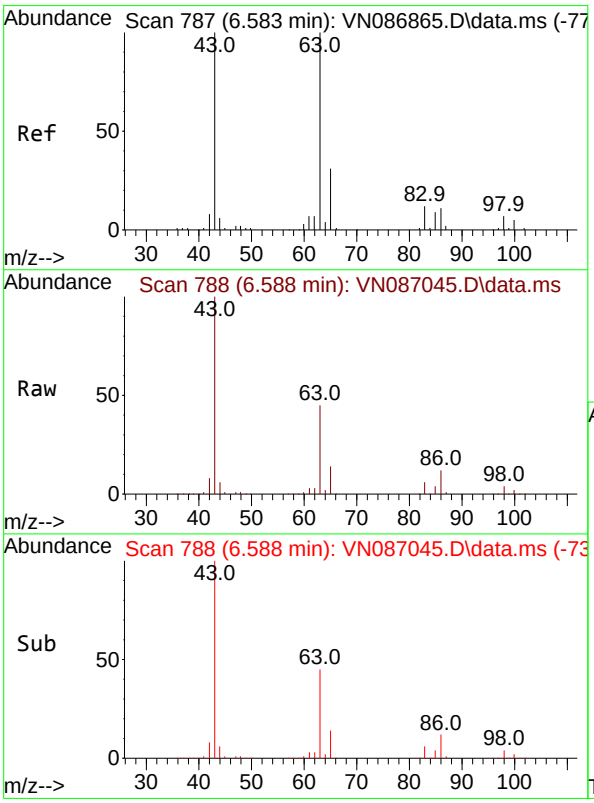
Ion	Ratio	Lower	Upper
43	100		
86	12.9	9.5	14.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

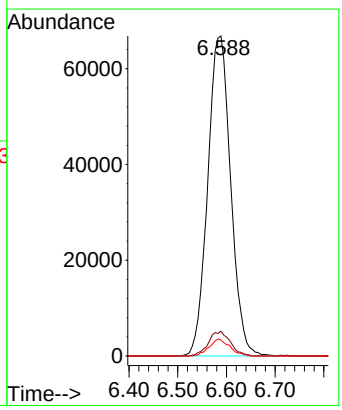
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

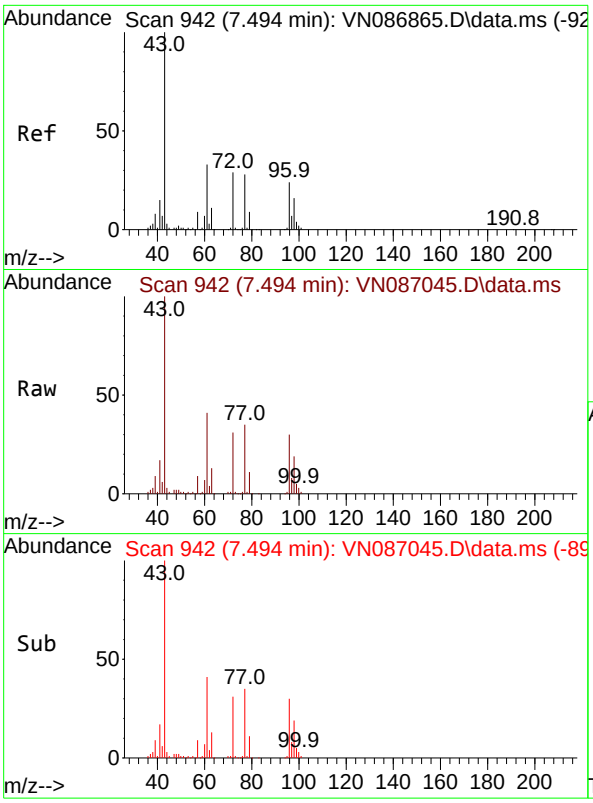


#24
1,1-Dichloroethane
Concen: 54.677 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 63 Resp: 219016

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.6	10.8
100	4.9	2.6	7.8





#25
2-Butanone
Concen: 230.777 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

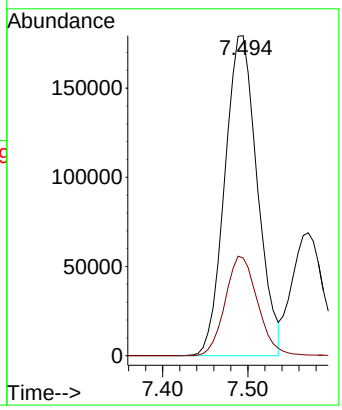
Tgt Ion: 43 Resp: 47645

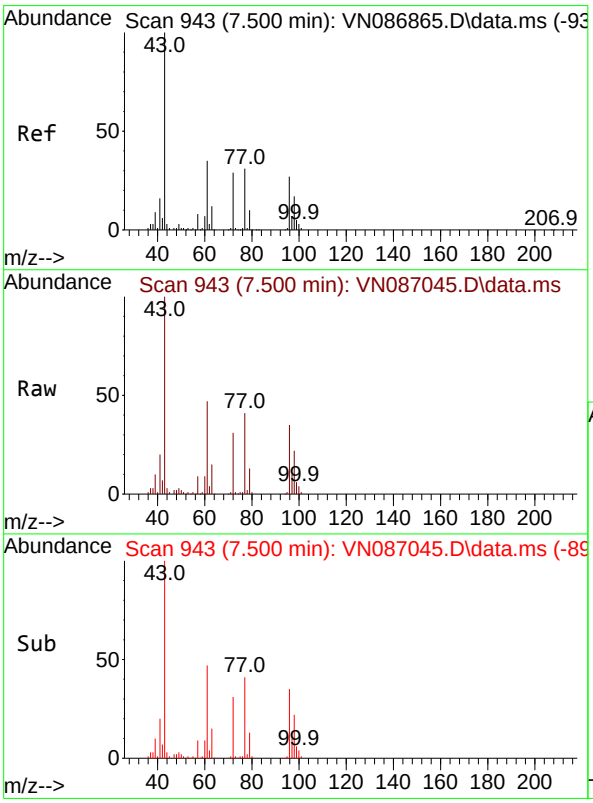
Ion	Ratio	Lower	Upper
43	100		
72	30.5	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

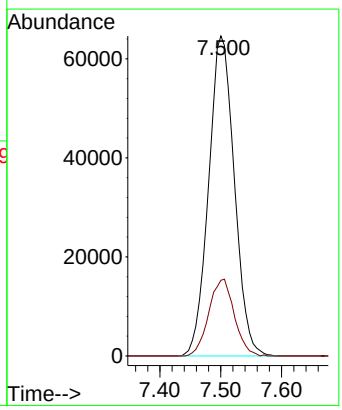


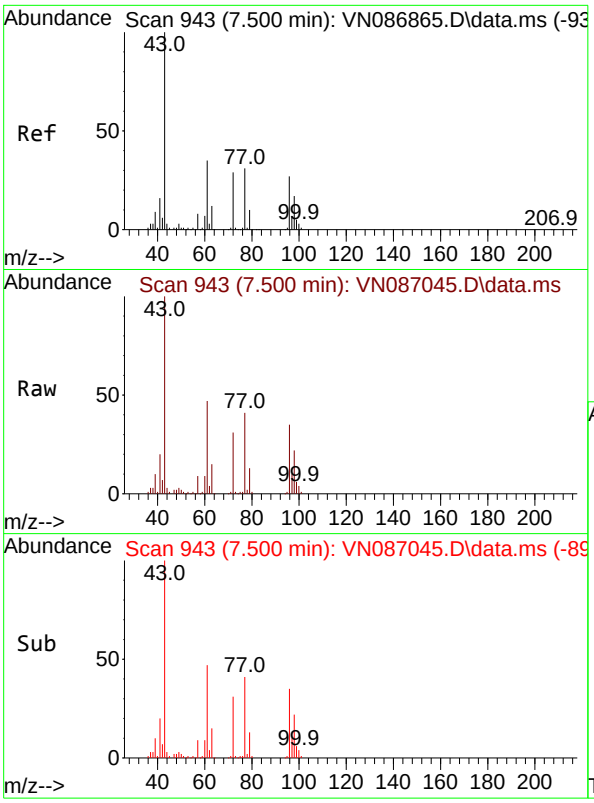


#26
2,2-Dichloropropane
Concen: 60.894 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 77 Resp: 189738

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.7

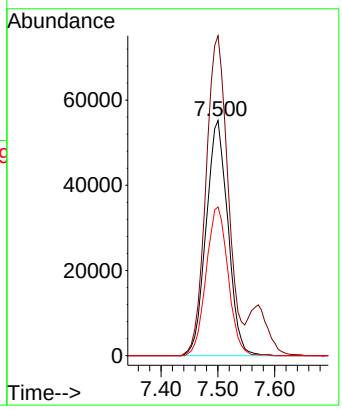




#27
cis-1,2-Dichloroethene
Concen: 55.499 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 96 Resp: 14703

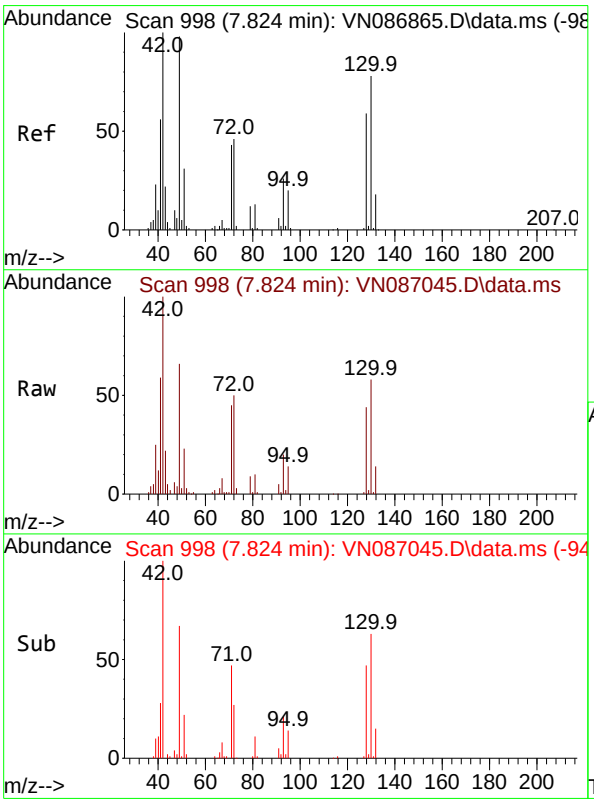
Ion	Ratio	Lower	Upper
96	100		
61	137.8	0.0	278.0
98	63.8	0.0	128.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

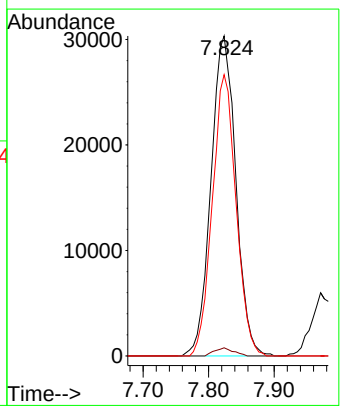
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

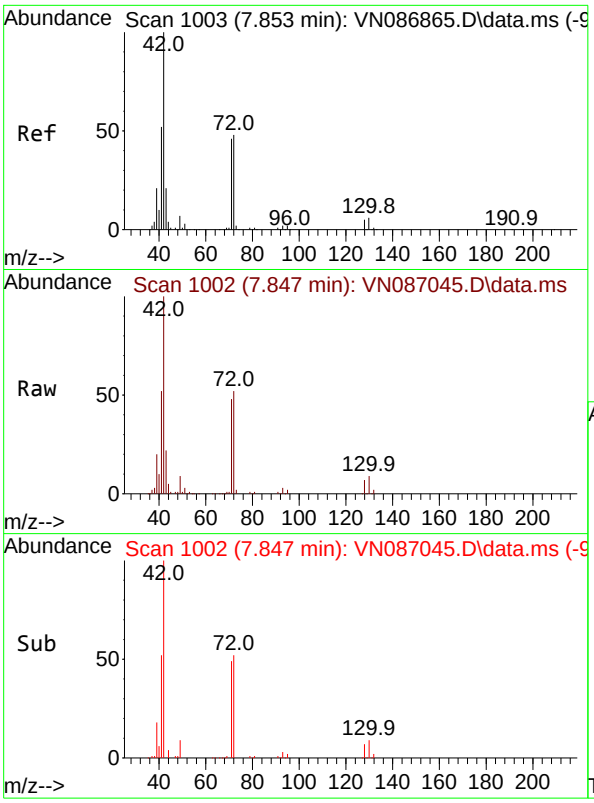


#28
Bromochloromethane
Concen: 40.537 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 49 Resp: 79836

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	83.9	62.2	93.2

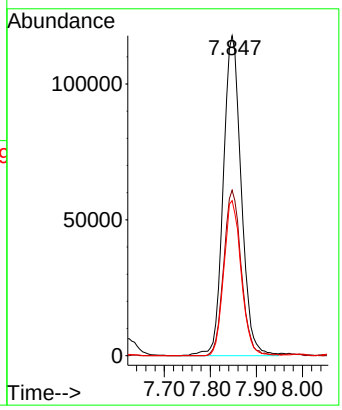




#29
Tetrahydrofuran
Concen: 236.990 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 42 Resp: 31873

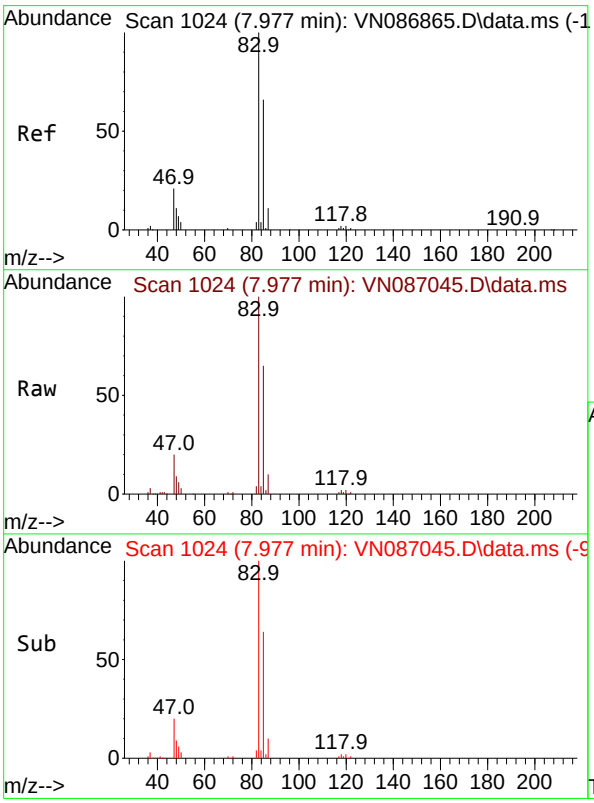
Ion	Ratio	Lower	Upper
42	100		
72	50.5	37.8	56.6
71	47.0	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

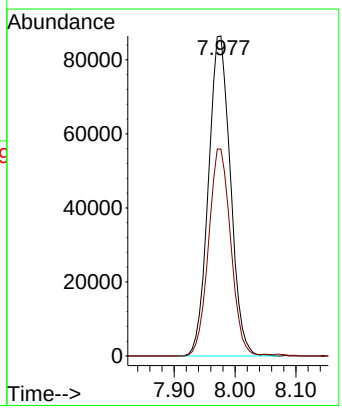
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

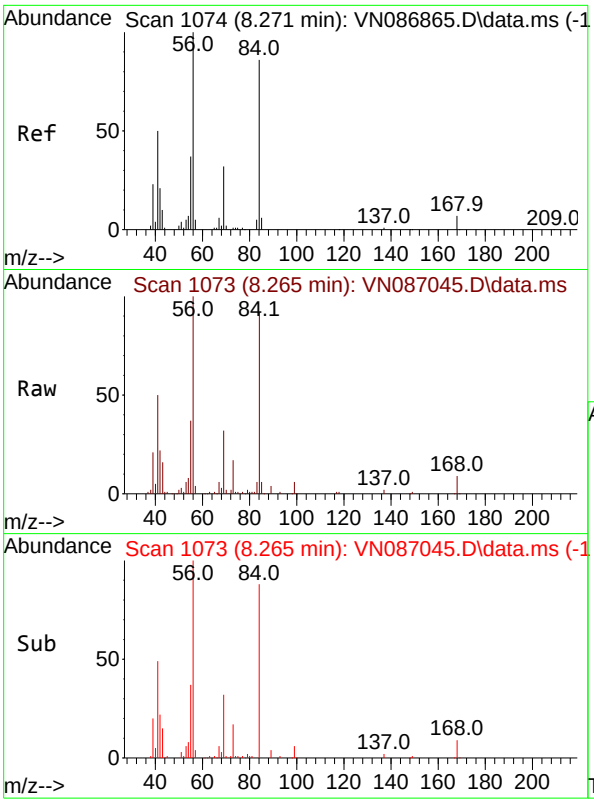


#30
Chloroform
Concen: 54.181 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 83 Resp: 216737

Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.9	79.3

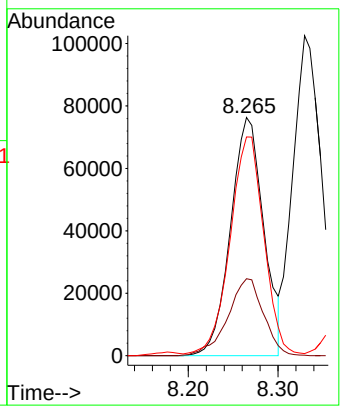




#31
Cyclohexane
Concen: 50.460 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 56 Resp: 19601

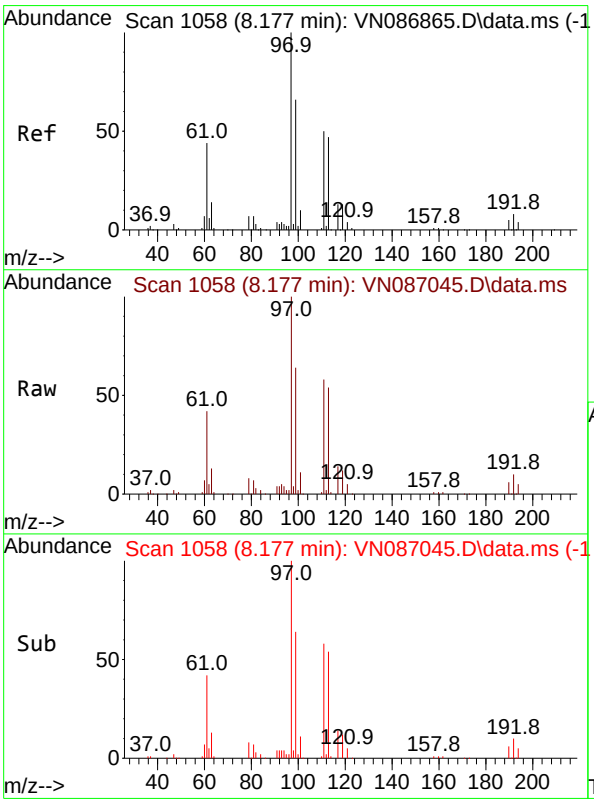
Ion	Ratio	Lower	Upper
56	100		
69	32.3	25.4	38.0
84	90.8	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

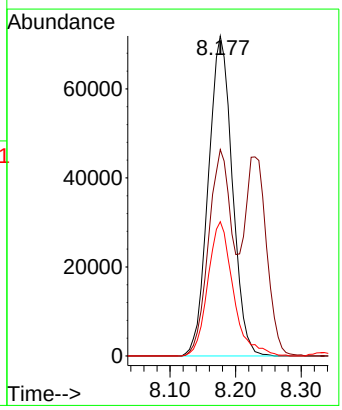
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

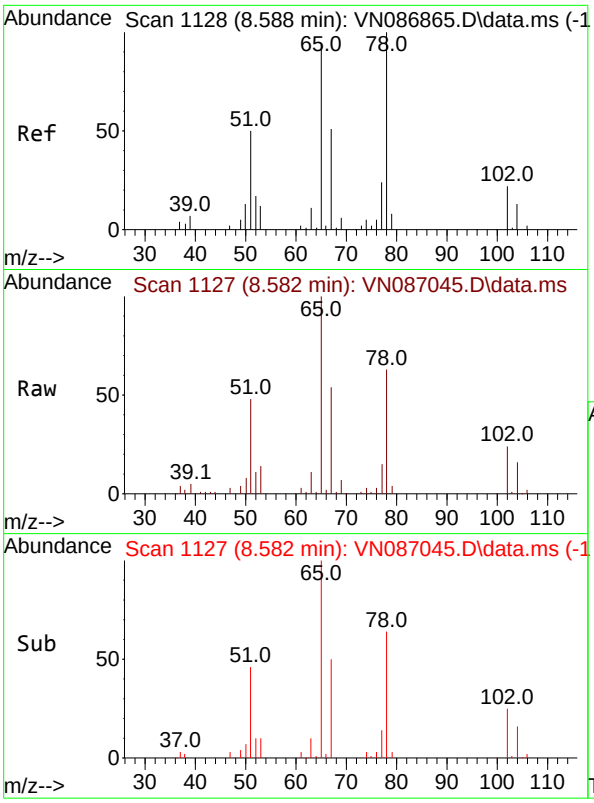


#32
1,1,1-Trichloroethane
Concen: 53.614 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 97 Resp: 182413

Ion	Ratio	Lower	Upper
97	100		
99	61.5	52.0	78.0
61	44.5	35.9	53.9

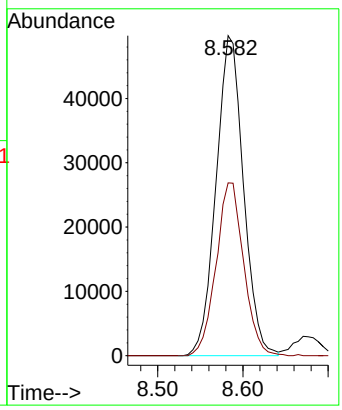




#33
1,2-Dichloroethane-d4
Concen: 46.417 ug/l
RT: 8.582 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 65 Resp: 11117

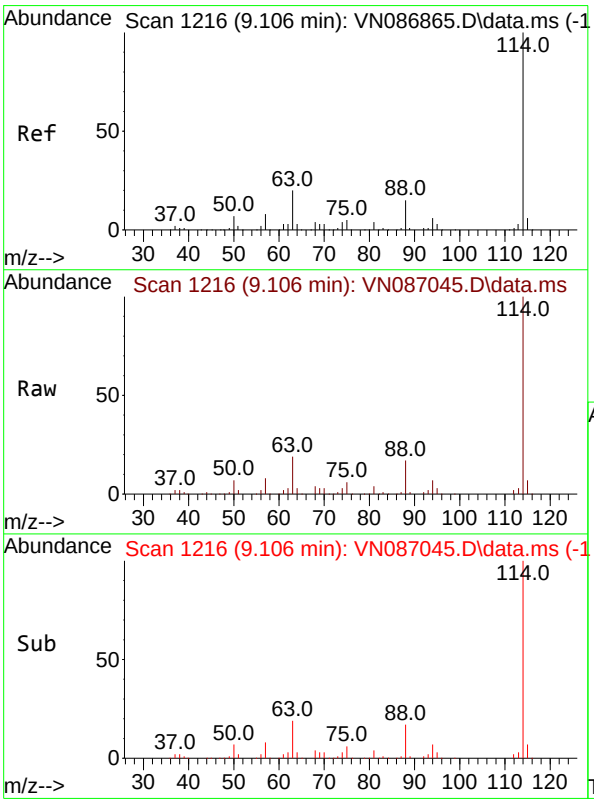
Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

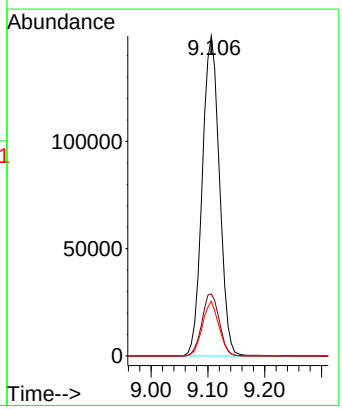
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

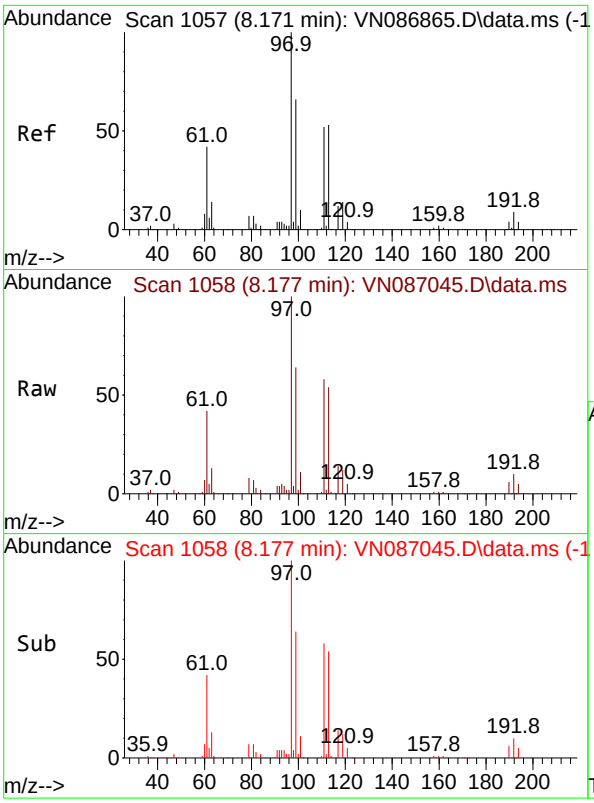


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:114 Resp: 312096

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	39.6
88	17.1	0.0	30.2

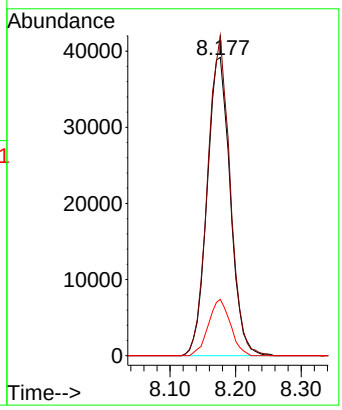




#35
Dibromofluoromethane
Concen: 51.895 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:113 Resp: 9598

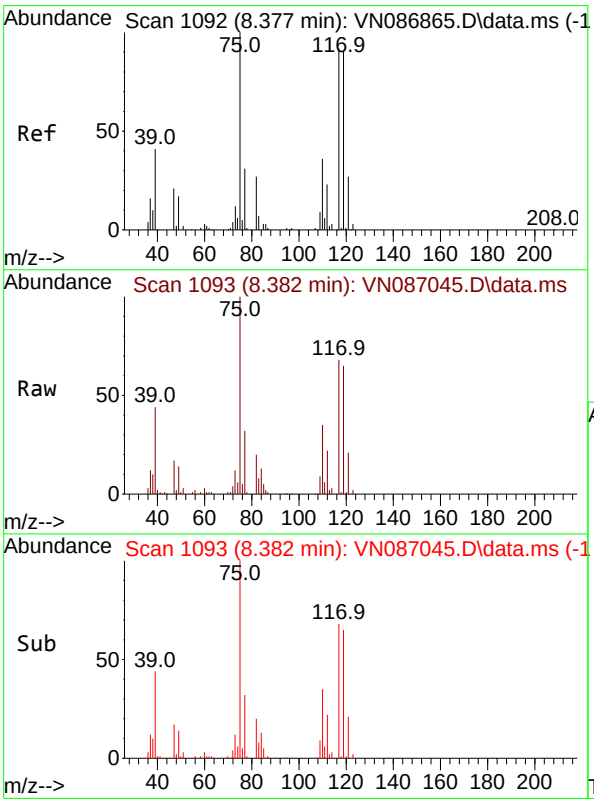
Ion	Ratio	Lower	Upper
113	100		
111	103.9	84.2	126.2
192	17.9	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

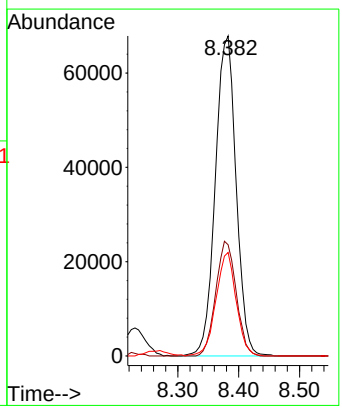
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

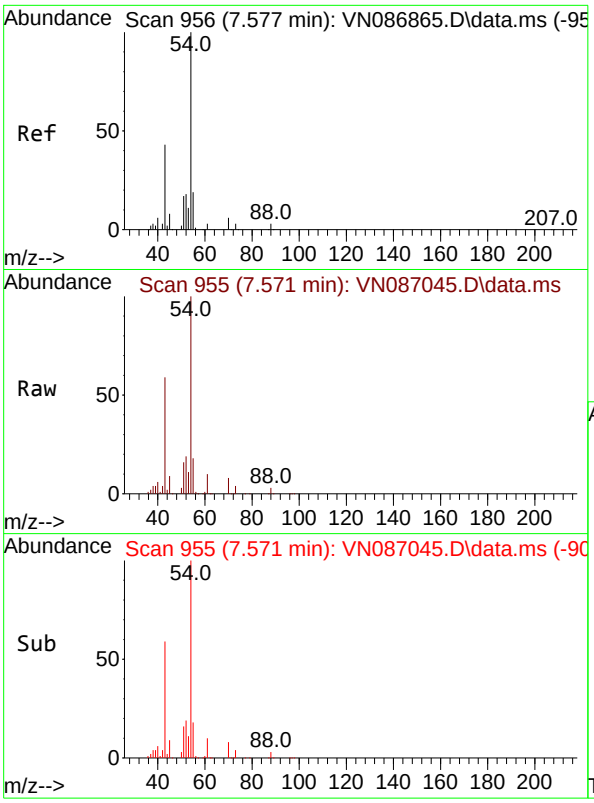


#36
1,1-Dichloropropene
Concen: 58.436 ug/l
RT: 8.382 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 75 Resp: 161052

Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.6	52.9
77	31.5	25.3	37.9





#37
Ethyl Acetate
Concen: 52.606 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

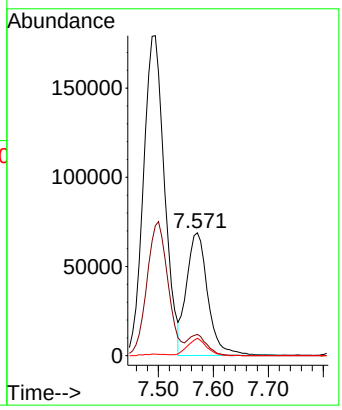
Tgt Ion: 43 Resp: 18456

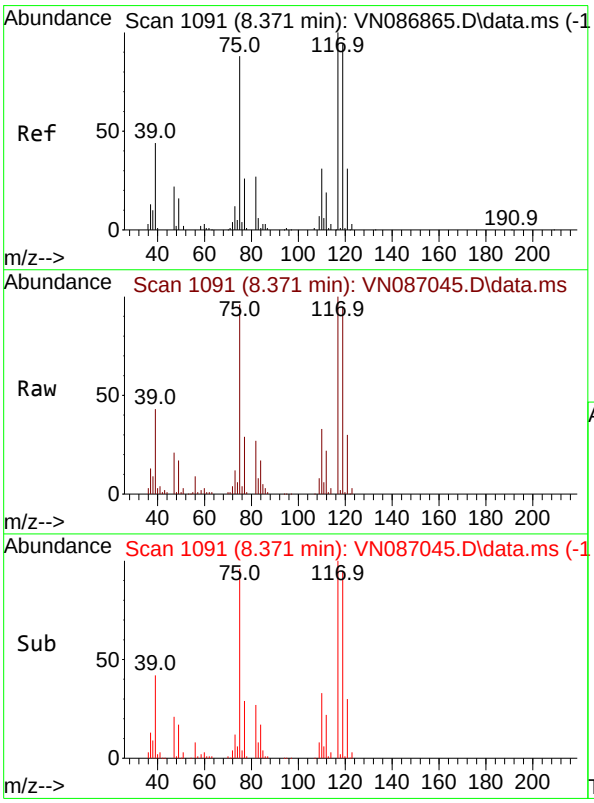
Ion	Ratio	Lower	Upper
43	100		
61	15.1	12.1	18.1
70	12.7	9.8	14.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

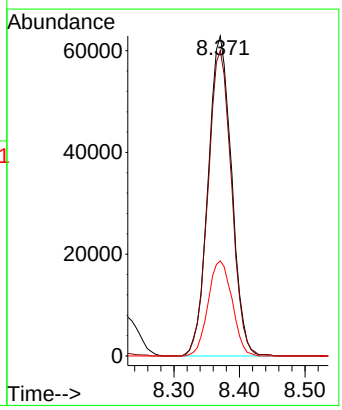


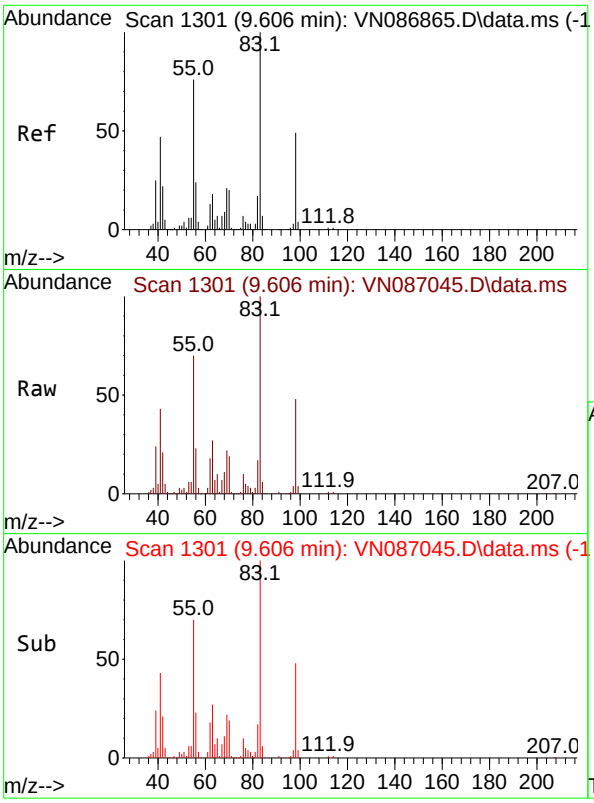


#38
Carbon Tetrachloride
Concen: 57.605 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:117 Resp: 155867

Ion	Ratio	Lower	Upper
117	100		
119	95.5	75.0	112.6
121	29.7	24.9	37.3

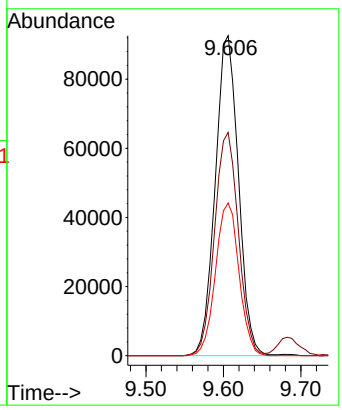




#39
Methylcyclohexane
Concen: 51.151 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 83 Resp: 19314

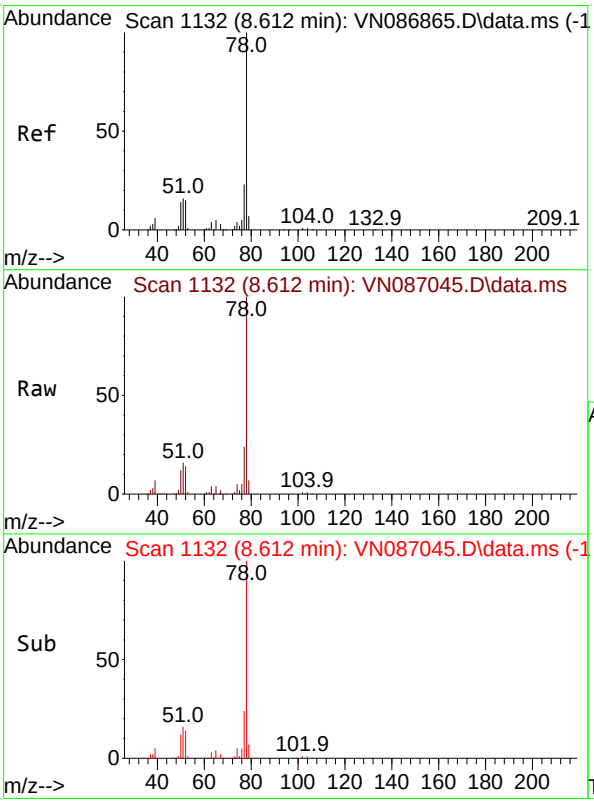
Ion	Ratio	Lower	Upper
83	100		
55	69.8	61.0	91.6
98	47.7	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

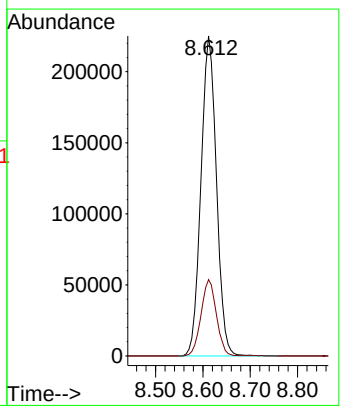
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

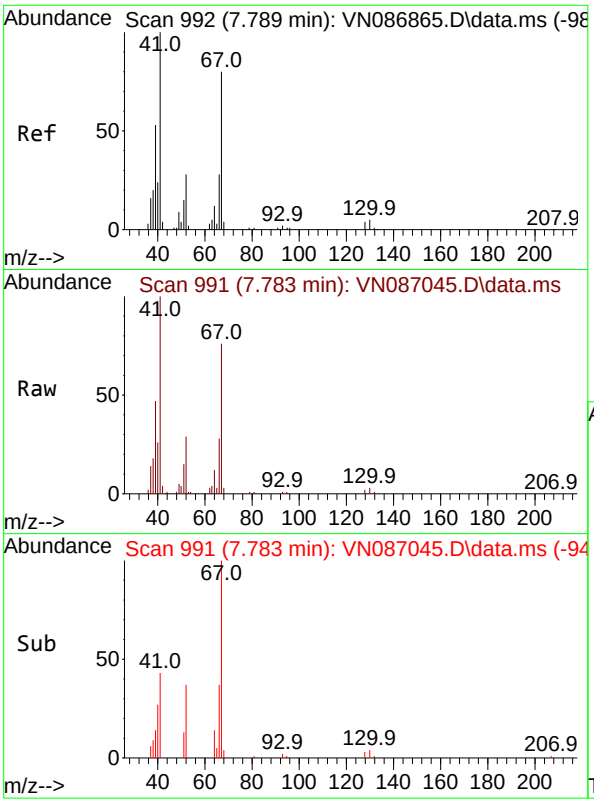


#40
Benzene
Concen: 56.603 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 78 Resp: 510124

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.7	28.1

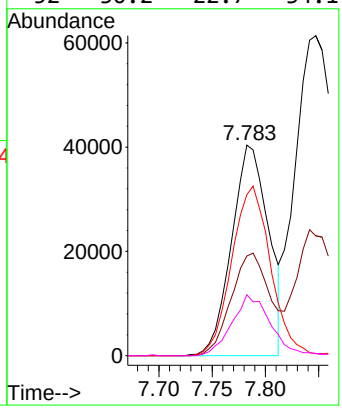




#41
Methacrylonitrile
Concen: 49.441 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 41 Resp: 9741

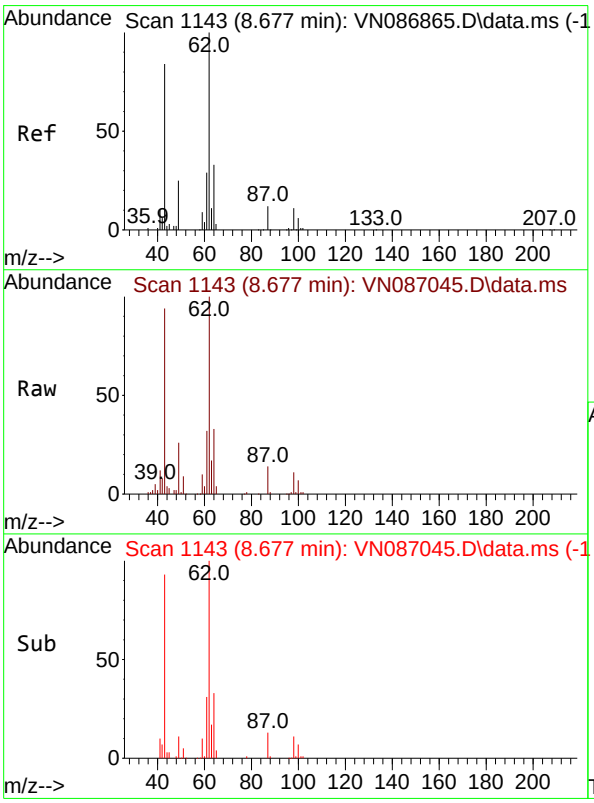
Ion	Ratio	Lower	Upper
41	100		
39	53.1	41.2	61.8
67	85.2	61.4	92.2
52	30.2	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

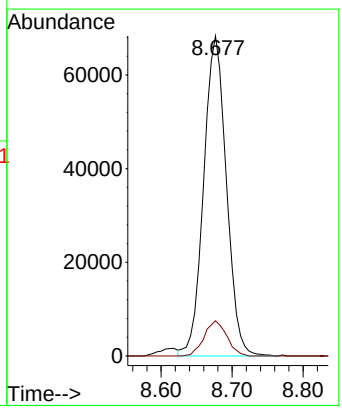
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

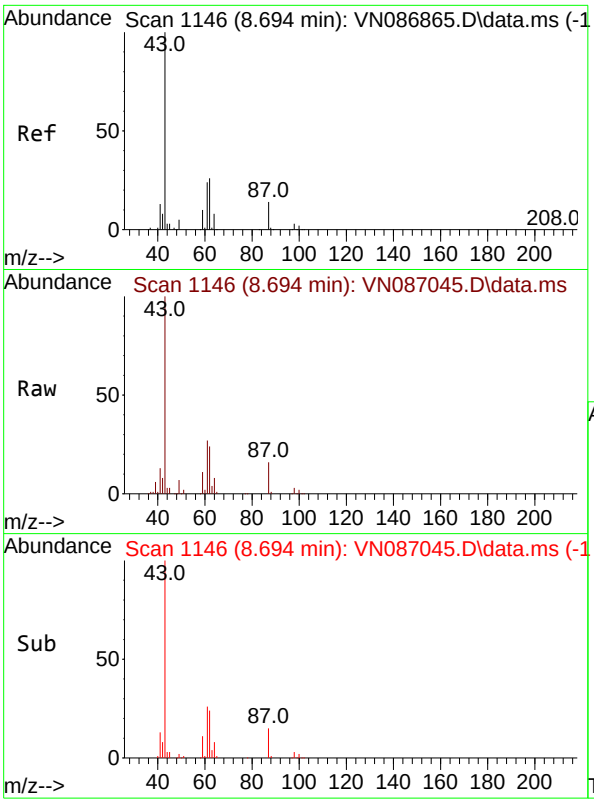


#42
1,2-Dichloroethane
Concen: 55.609 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 62 Resp: 152007

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	21.2





#43
Isopropyl Acetate
Concen: 50.333 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

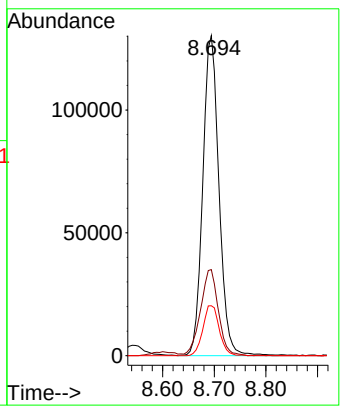
Tgt Ion: 43 Resp: 28342

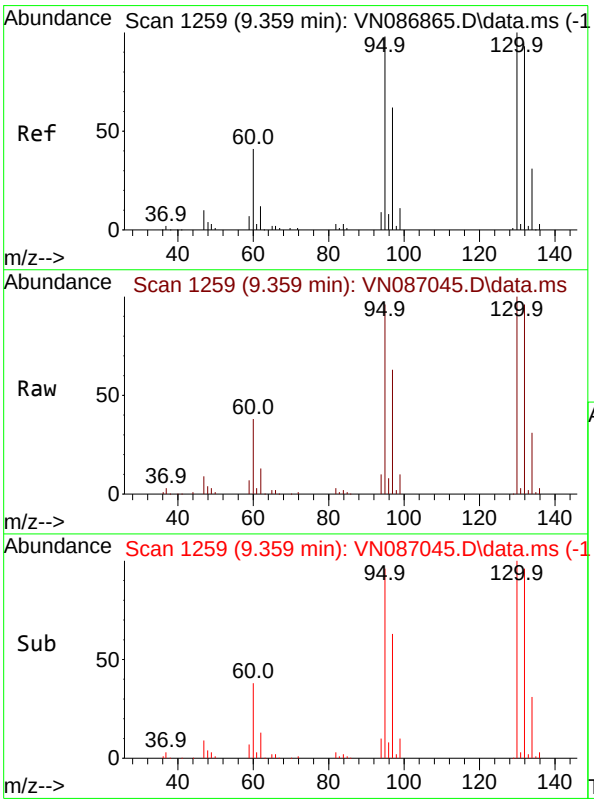
Ion	Ratio	Lower	Upper
43	100		
61	29.6	22.1	33.1
87	15.8	11.8	17.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

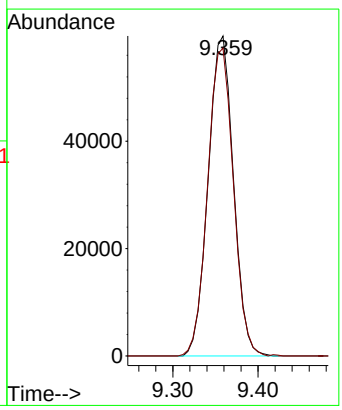


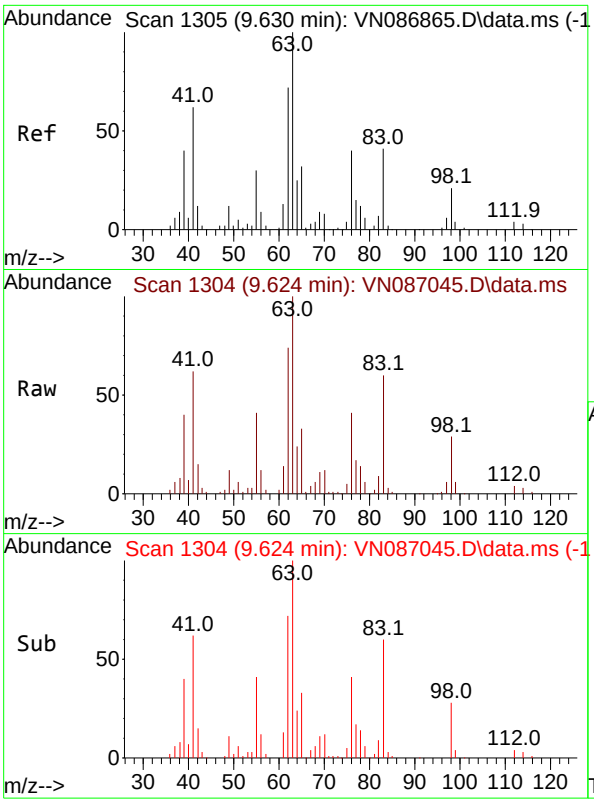


#44
Trichloroethene
Concen: 57.509 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:130 Resp: 122896

Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	196.2

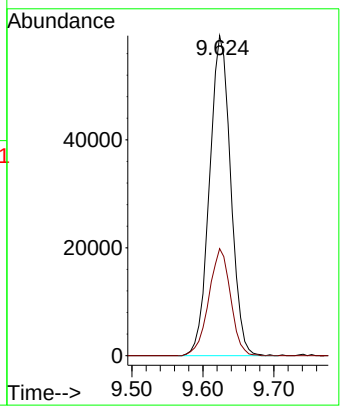




#45
1,2-Dichloropropane
Concen: 55.952 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 63 Resp: 12267

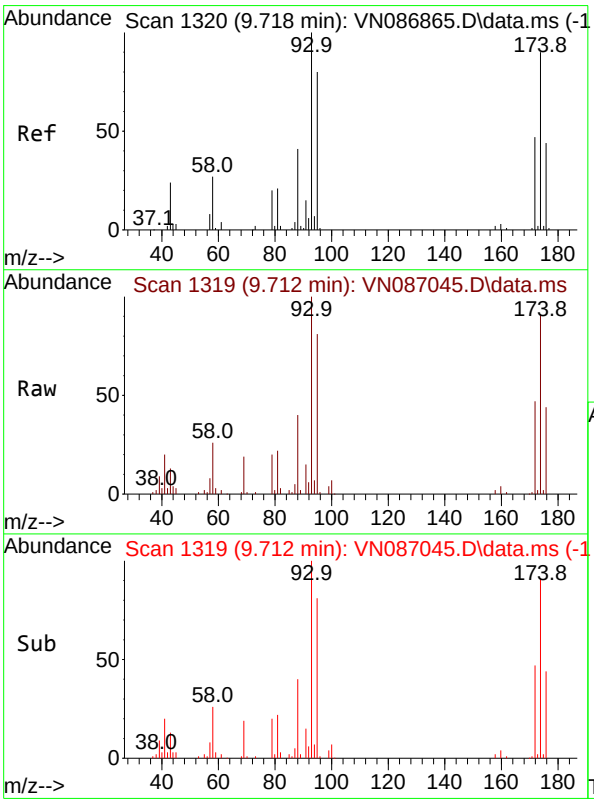
Ion	Ratio	Lower	Upper
63	100		
65	33.5	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

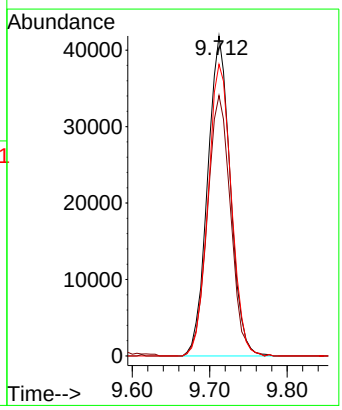
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

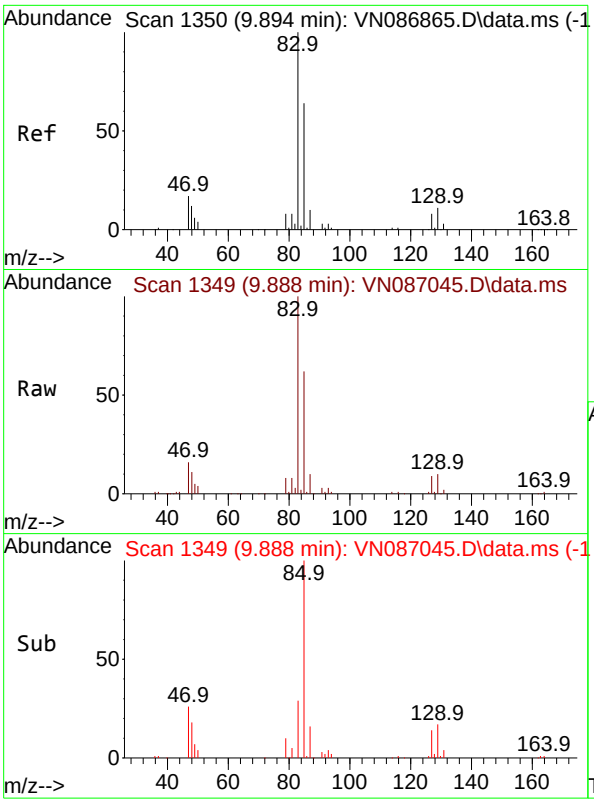


#46
Dibromomethane
Concen: 58.510 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 93 Resp: 85210

Ion	Ratio	Lower	Upper
93	100		
95	83.0	67.1	100.7
174	93.4	74.2	111.4

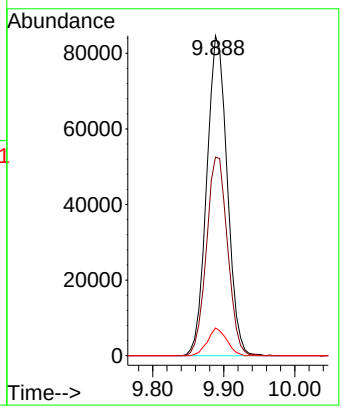




#47
Bromodichloromethane
Concen: 56.550 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 83 Resp: 16944

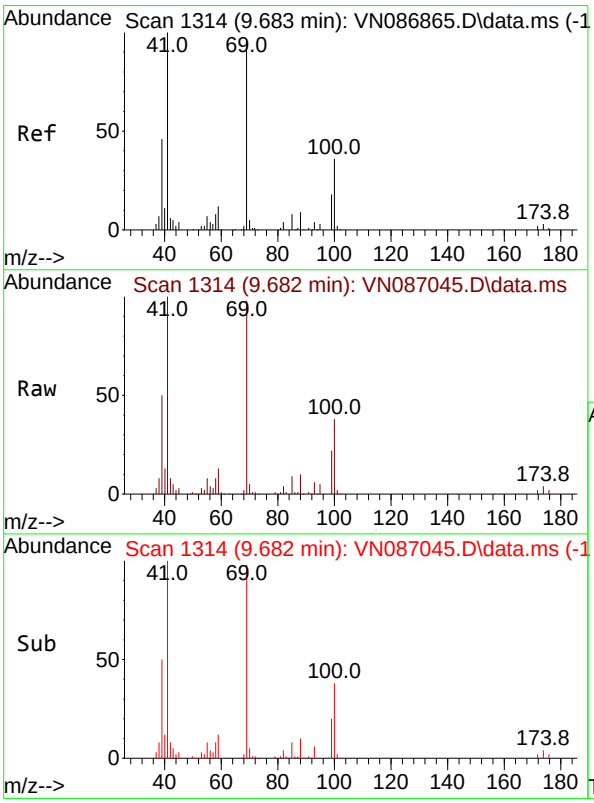
Ion	Ratio	Lower	Upper
83	100		
85	62.0	50.9	76.3
127	8.7	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

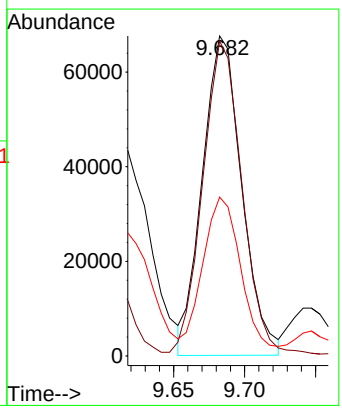
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

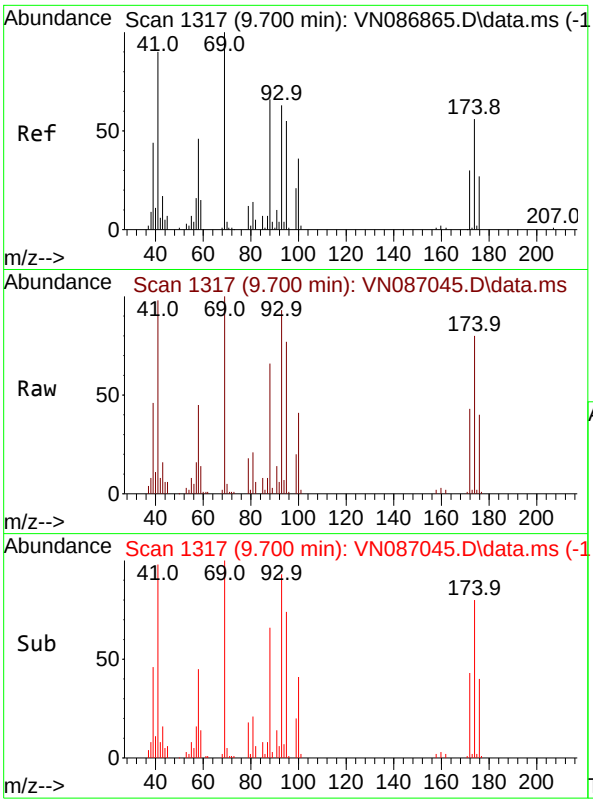


#48
Methyl methacrylate
Concen: 50.271 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 41 Resp: 130292

Ion	Ratio	Lower	Upper
41	100		
69	99.8	74.6	112.0
39	49.4	40.2	60.4





#49
1,4-Dioxane
Concen: 1045.473 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

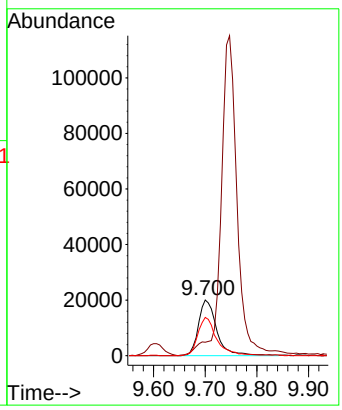
Tgt Ion: 88 Resp: 4929

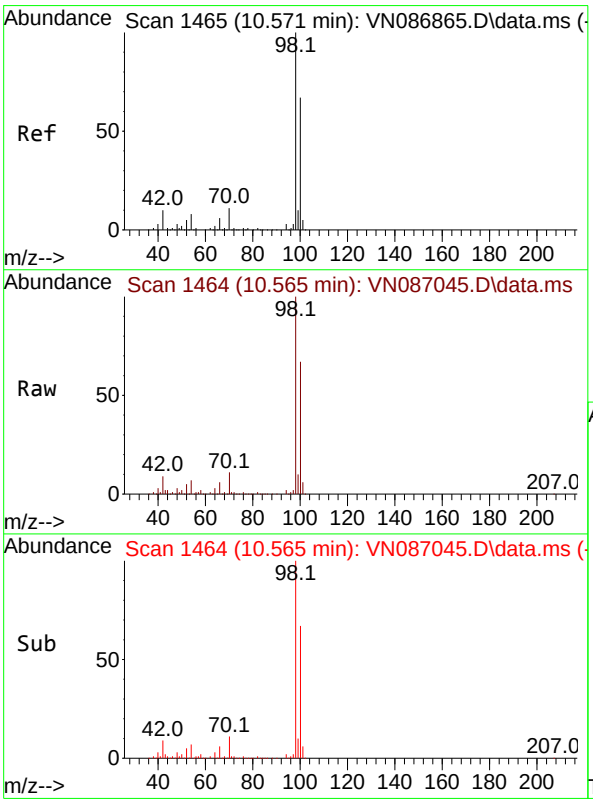
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	71.0	57.7	86.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

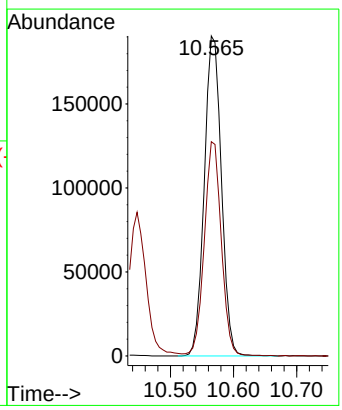


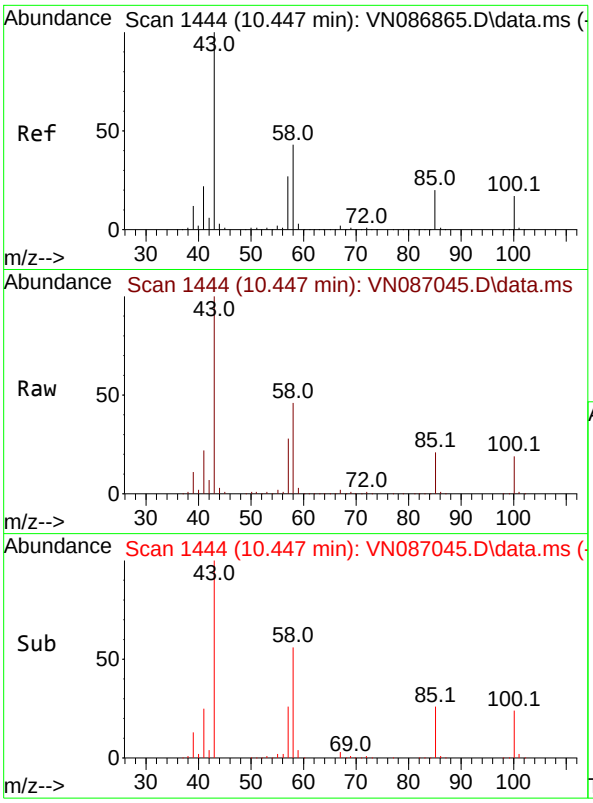


#50
Toluene-d8
Concen: 48.901 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 98 Resp: 358050

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.4	80.0

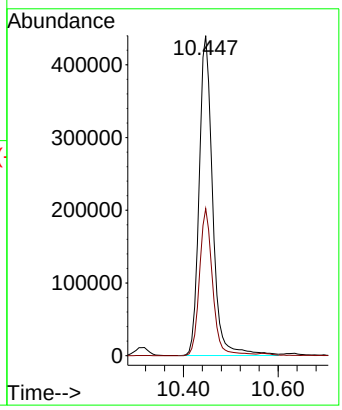




#51
4-Methyl-2-Pentanone
Concen: 257.739 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 43 Resp: 87371

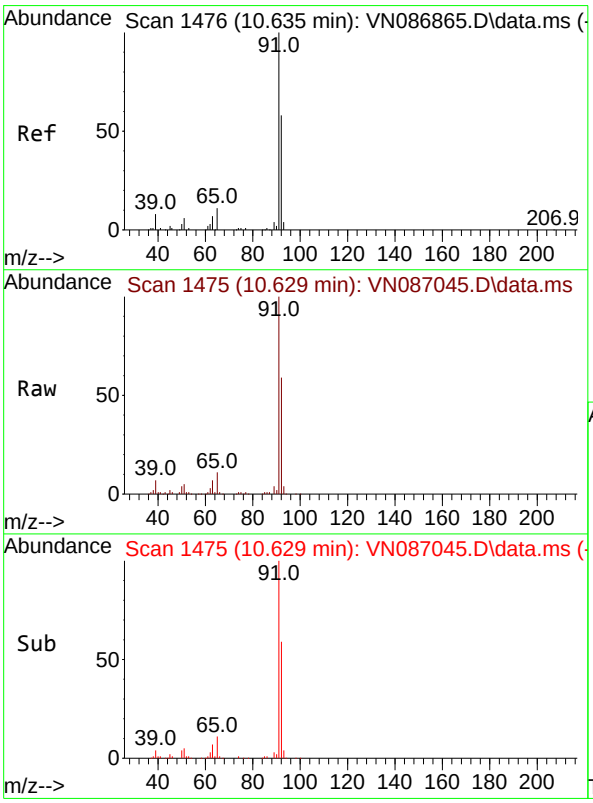
Ion	Ratio	Lower	Upper
43	100		
58	44.7	34.2	51.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

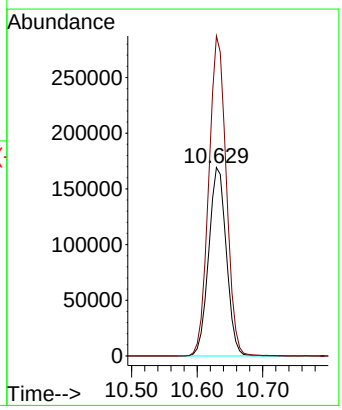
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

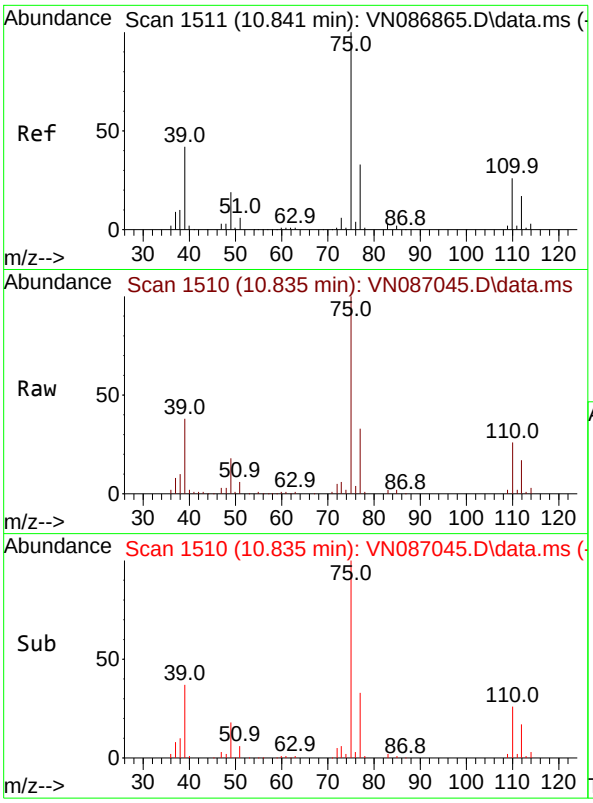


#52
Toluene
Concen: 57.288 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 92 Resp: 315522

Ion	Ratio	Lower	Upper
92	100		
91	168.9	136.5	204.7

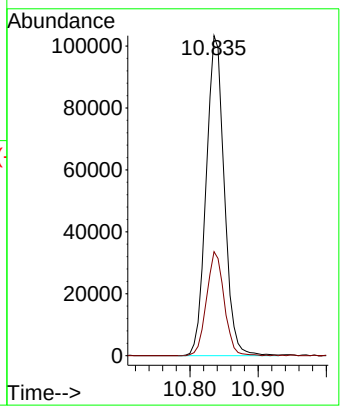




#53
t-1,3-Dichloropropene
Concen: 56.893 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 75 Resp: 19062

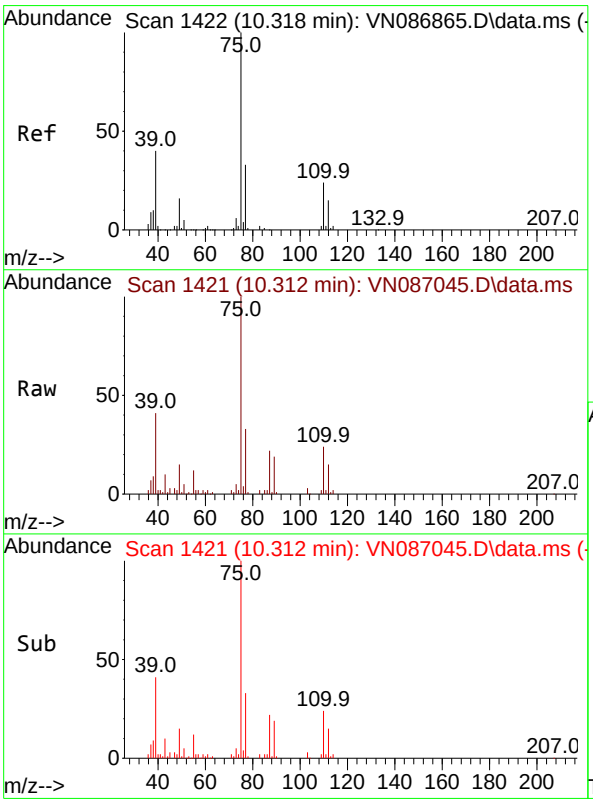
Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

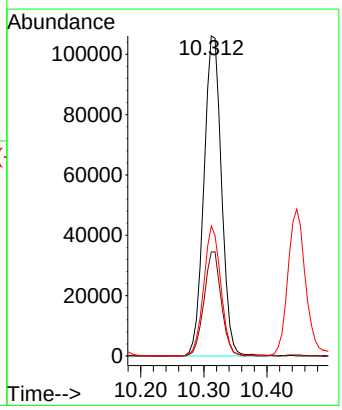
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

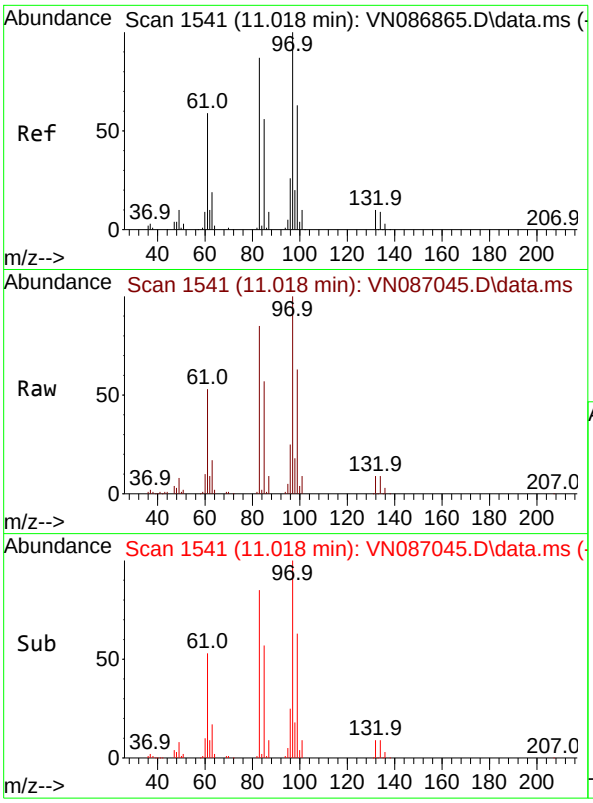


#54
cis-1,3-Dichloropropene
Concen: 57.231 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 75 Resp: 205171

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.2	39.4
39	40.6	32.3	48.5

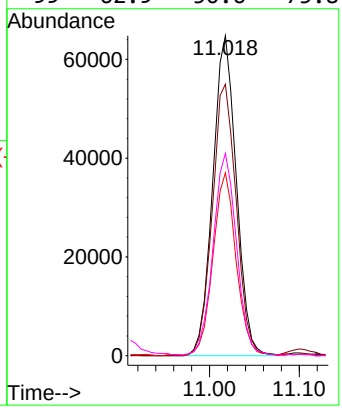




#55
1,1,2-Trichloroethane
Concen: 55.740 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 97 Resp: 11812

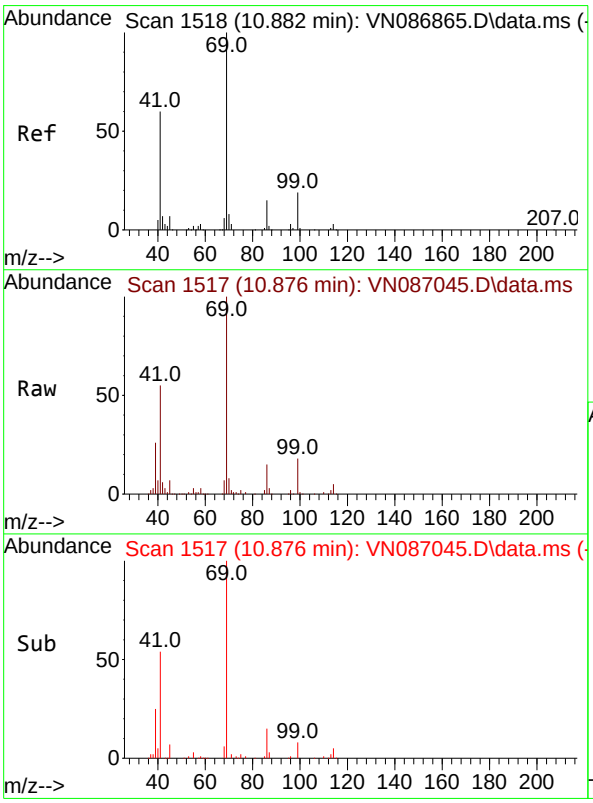
Ion	Ratio	Lower	Upper
97	100		
83	84.9	69.7	104.5
85	57.2	45.1	67.7
99	62.9	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

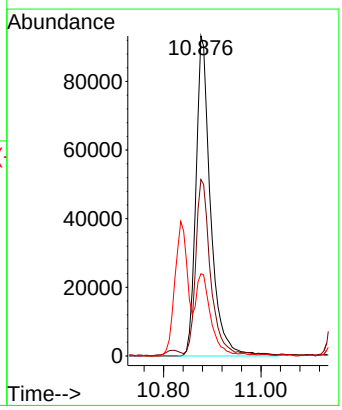
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

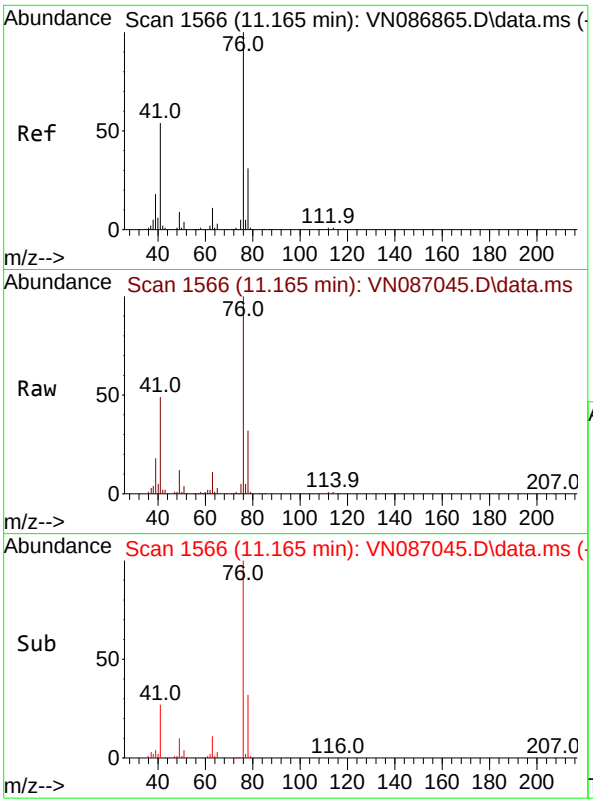


#56
Ethyl methacrylate
Concen: 57.976 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 69 Resp: 195696

Ion	Ratio	Lower	Upper
69	100		
41	55.1	47.2	70.8
39	24.8	23.0	34.6

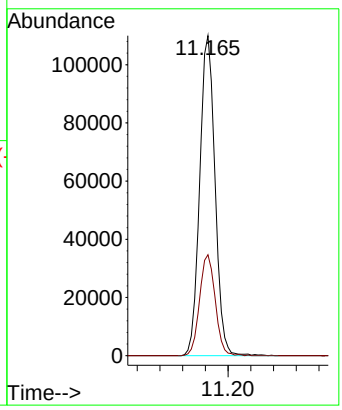




#57
1,3-Dichloropropane
Concen: 55.947 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 76 Resp: 20567

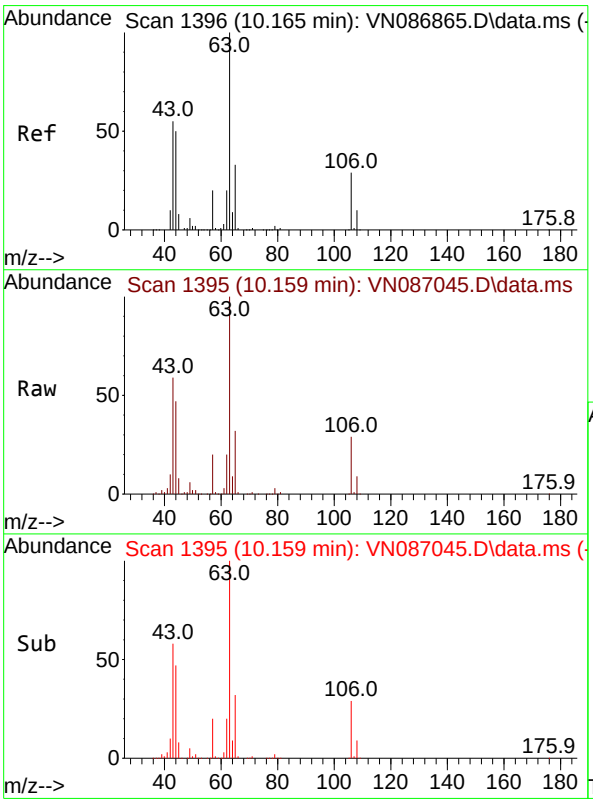
Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

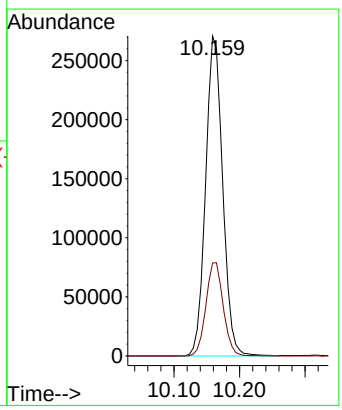
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

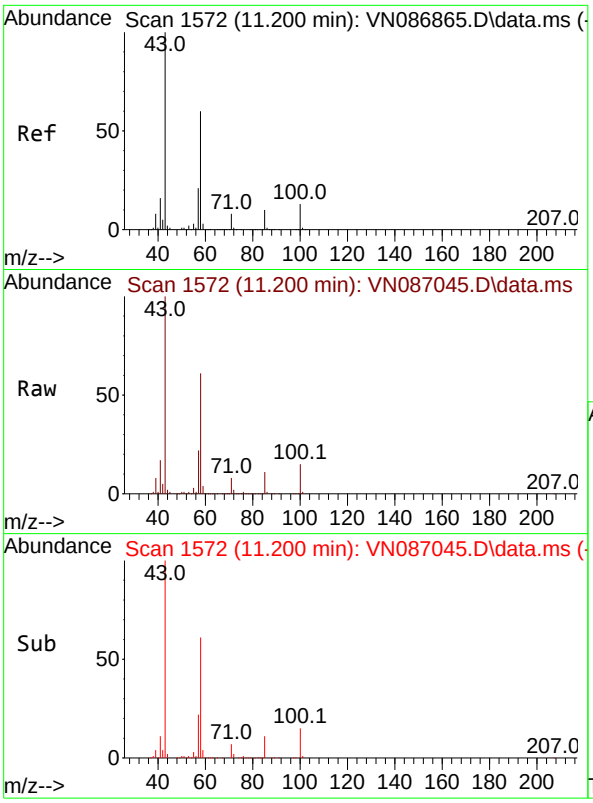


#58
2-Chloroethyl Vinyl ether
Concen: 243.555 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 63 Resp: 490344

Ion	Ratio	Lower	Upper
63	100		
106	29.6	23.0	34.6

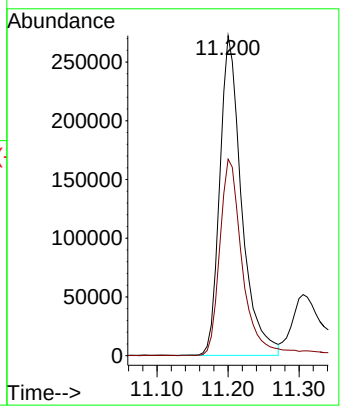




#59
2-Hexanone
Concen: 265.542 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 43 Resp: 57982

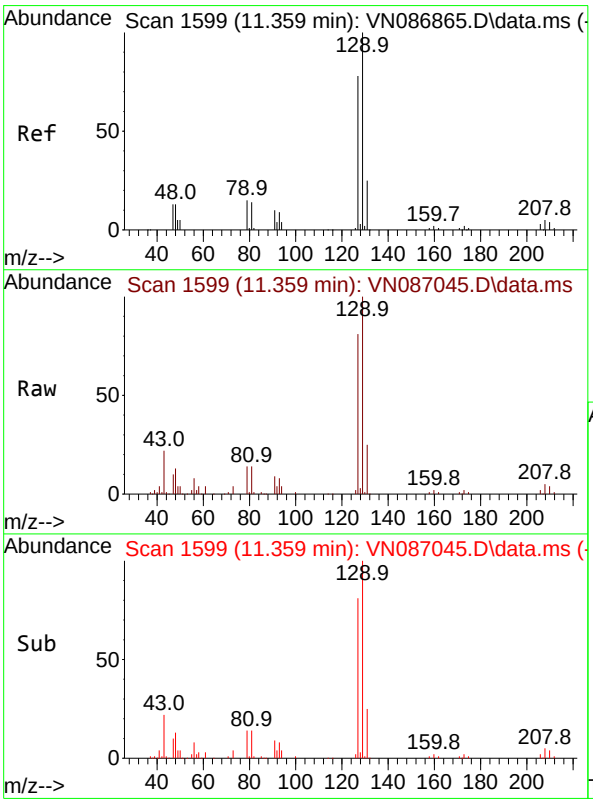
Ion	Ratio	Lower	Upper
43	100		
58	65.5	30.4	91.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

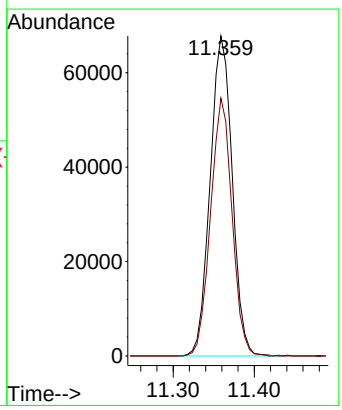
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

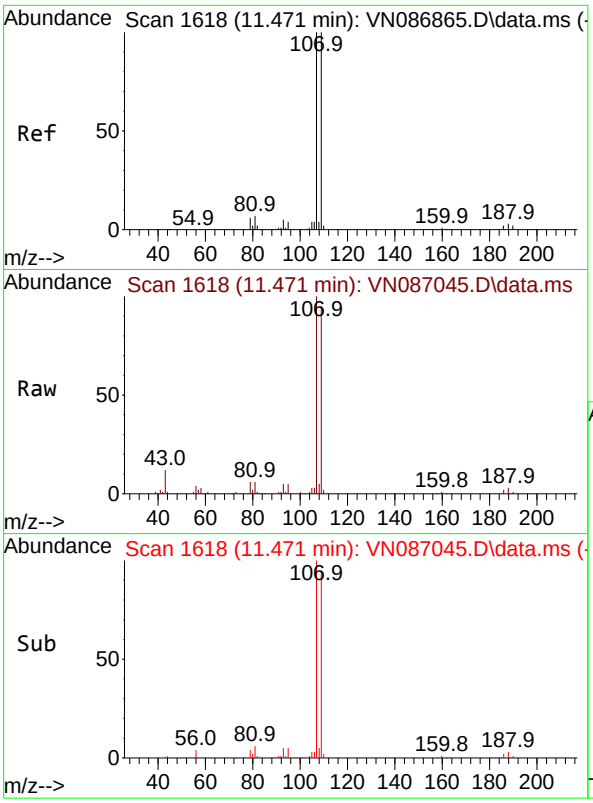


#60
Dibromochloromethane
Concen: 57.909 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:129 Resp: 127864

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.6	115.8

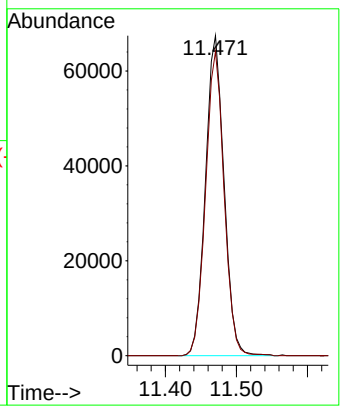




#61
1,2-Dibromoethane
Concen: 56.449 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:107 Resp: 12261

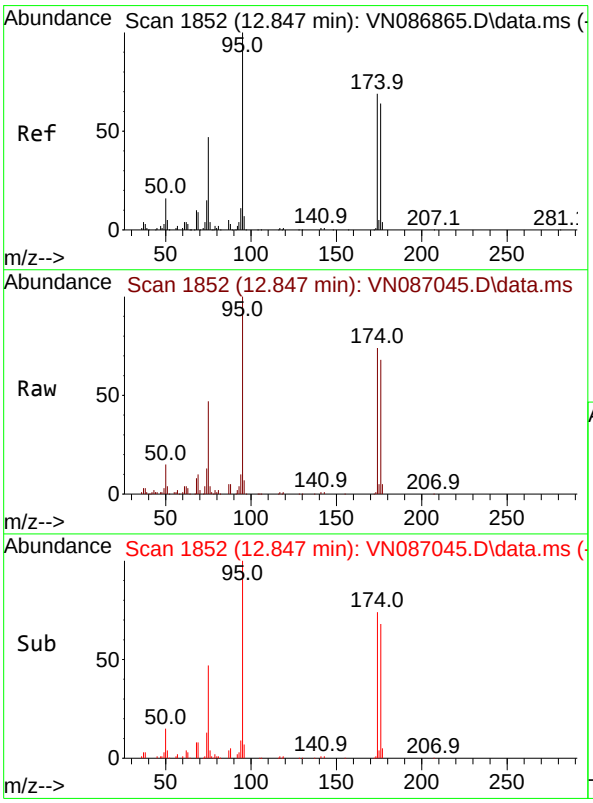
Ion	Ratio	Lower	Upper
107	100		
109	94.8	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

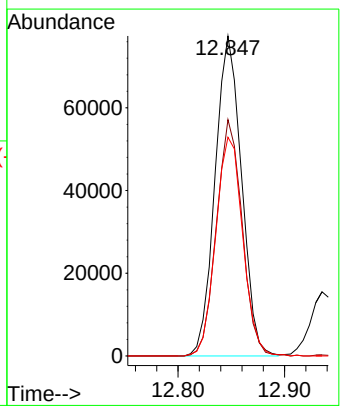
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

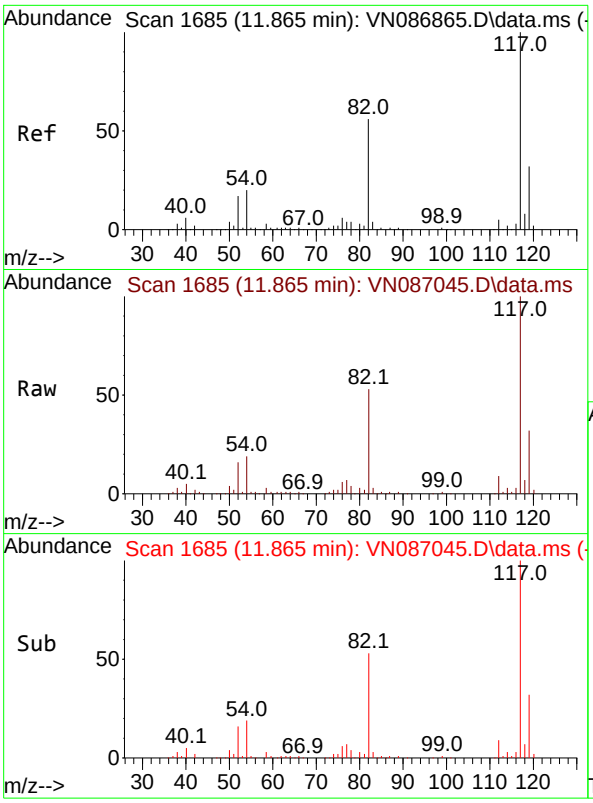


#62
4-Bromofluorobenzene
Concen: 49.036 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 95 Resp: 133394

Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	141.8
176	70.0	0.0	132.6

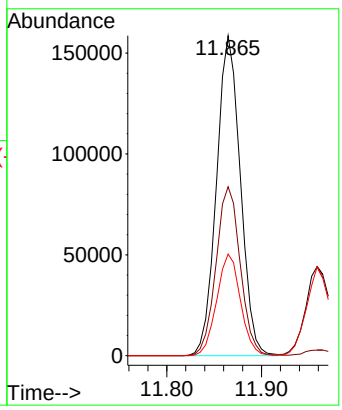




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:117 Resp: 27802

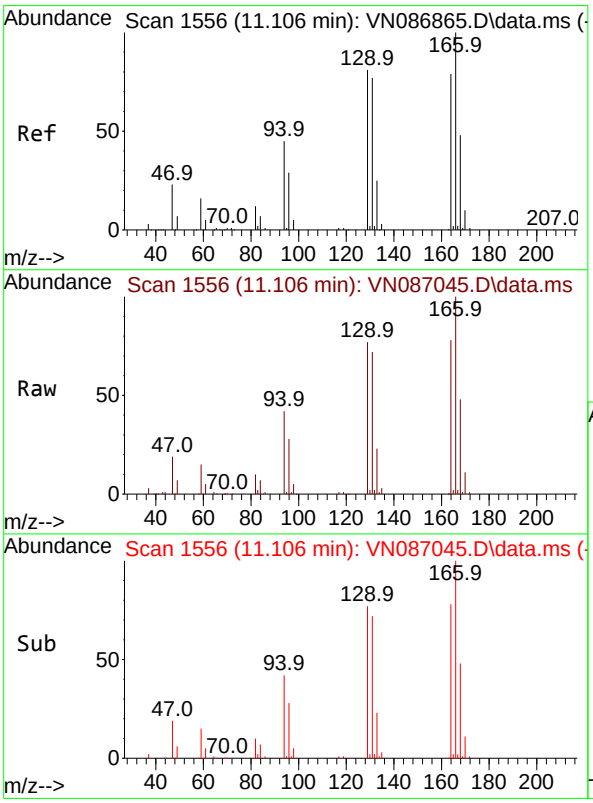
Ion	Ratio	Lower	Upper
117	100		
82	52.8	44.6	67.0
119	31.8	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

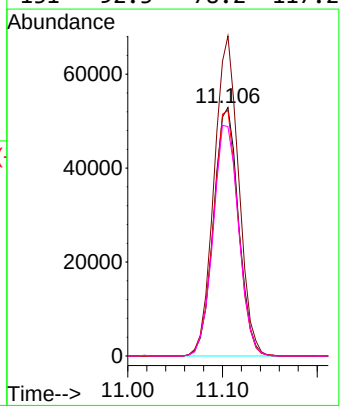
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

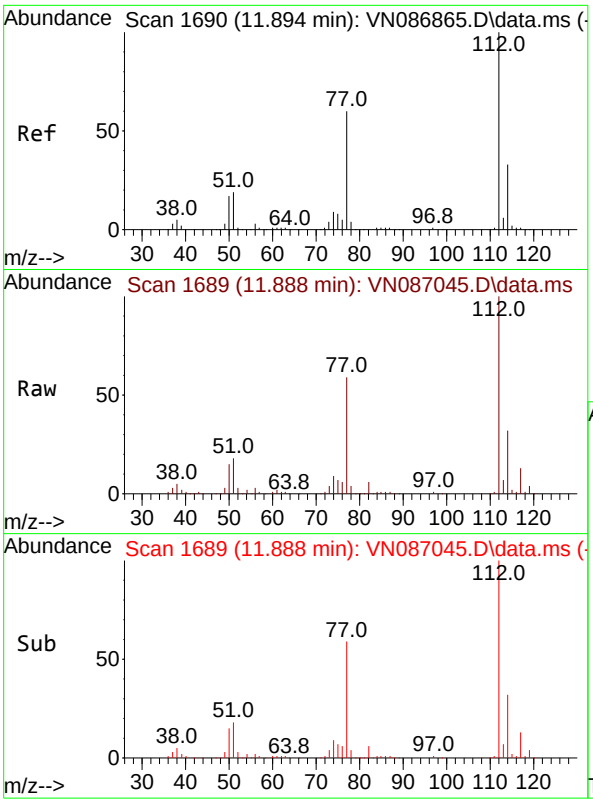


#64
Tetrachloroethene
Concen: 55.204 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:164 Resp: 97132

Ion	Ratio	Lower	Upper
164	100		
166	128.8	101.8	152.8
129	98.9	83.0	124.4
131	92.3	78.2	117.2

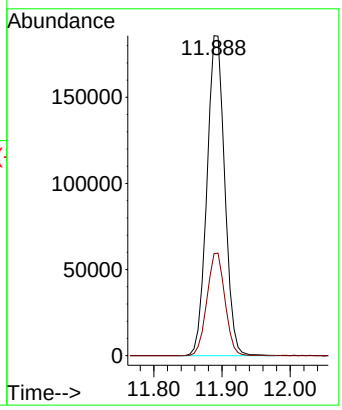




#65
Chlorobenzene
Concen: 54.968 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:112 Resp: 33705

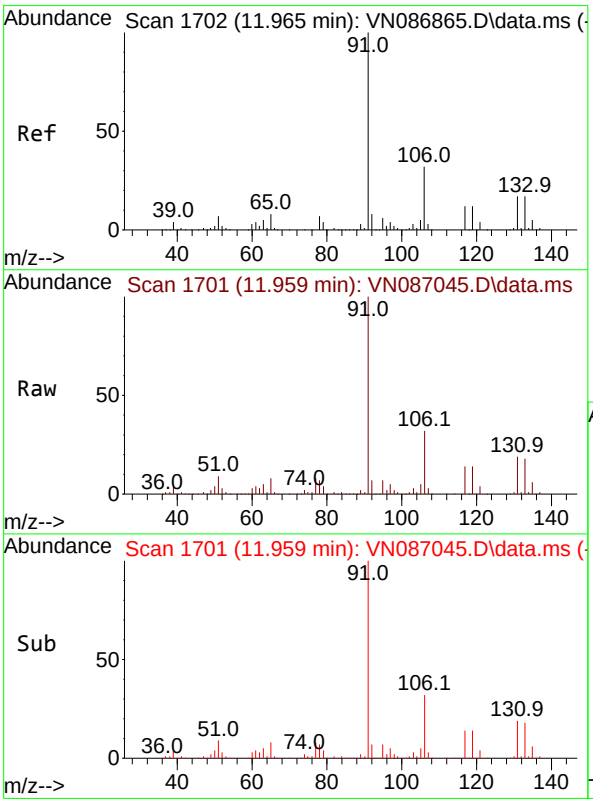
Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

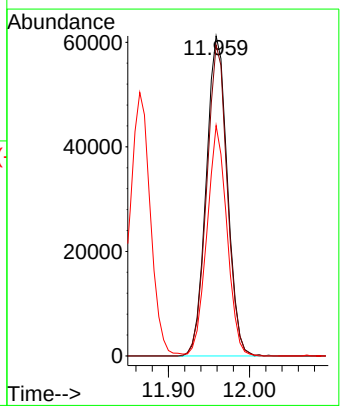
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

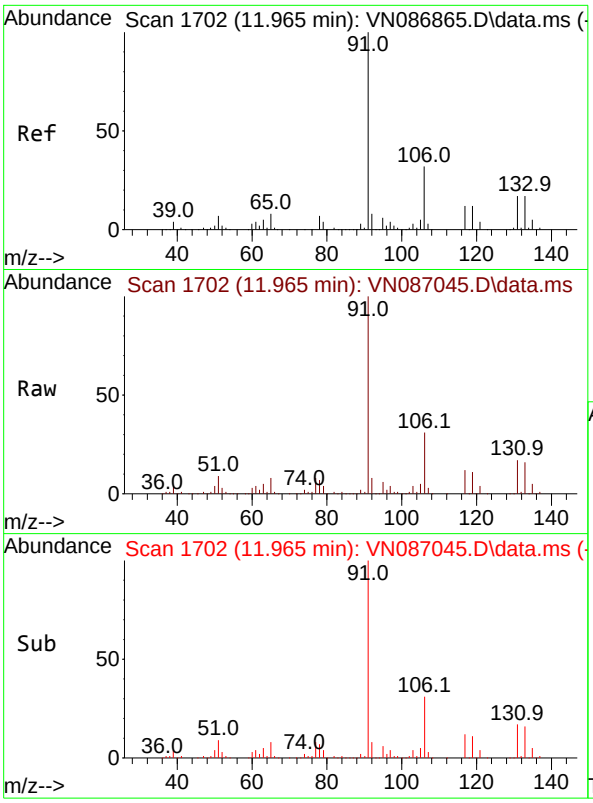


#66
1,1,1,2-Tetrachloroethane
Concen: 56.061 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:131 Resp: 110500

Ion	Ratio	Lower	Upper
131	100		
133	95.0	48.3	144.8
119	68.3	34.0	101.8

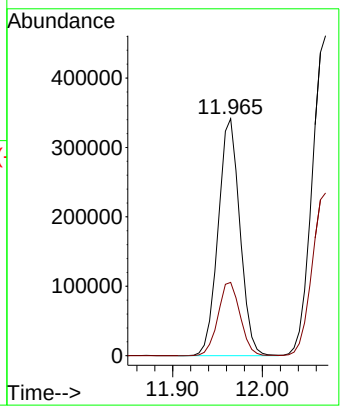




#67
Ethyl Benzene
Concen: 54.279 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 91 Resp: 57329

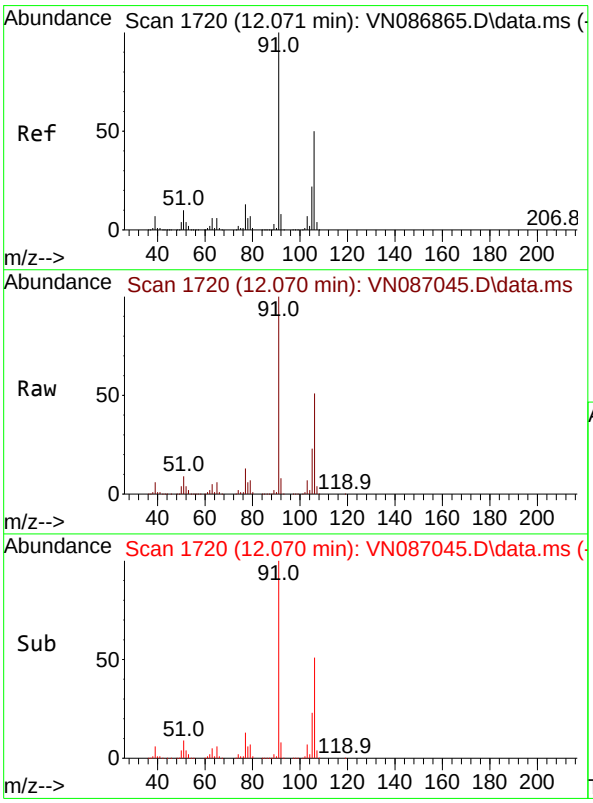
Ion	Ratio	Lower	Upper
91	100		
106	31.0	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

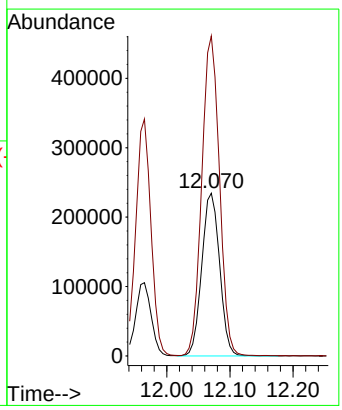
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

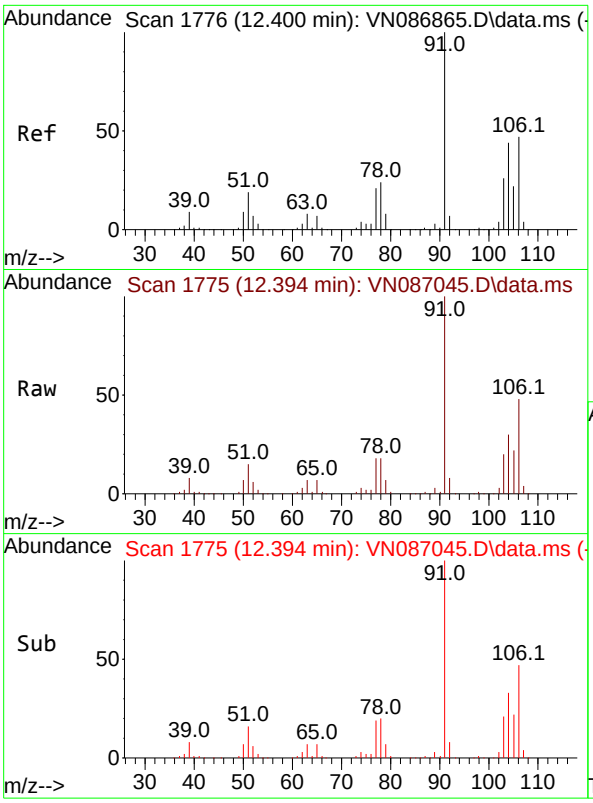


#68
m/p-Xylenes
Concen: 113.581 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:106 Resp: 459223

Ion	Ratio	Lower	Upper
106	100		
91	194.8	159.4	239.0

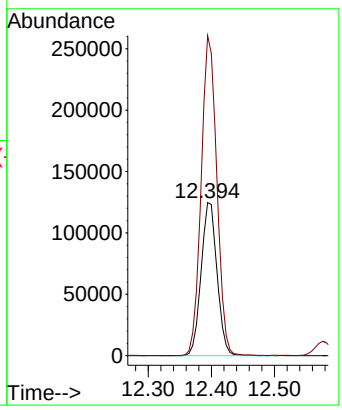




#69
o-Xylene
Concen: 56.391 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:106 Resp: 21836

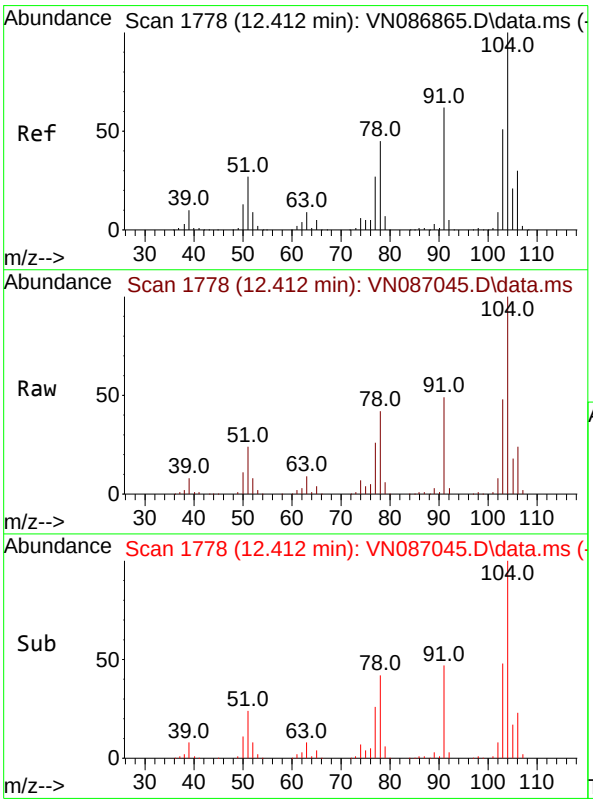
Ion	Ratio	Lower	Upper
106	100		
91	206.1	106.1	318.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

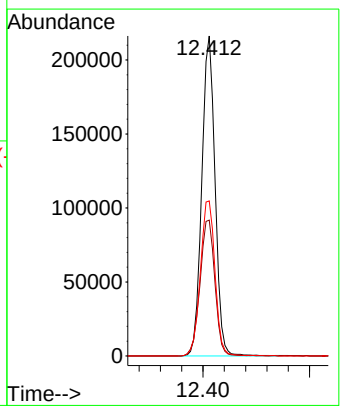
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

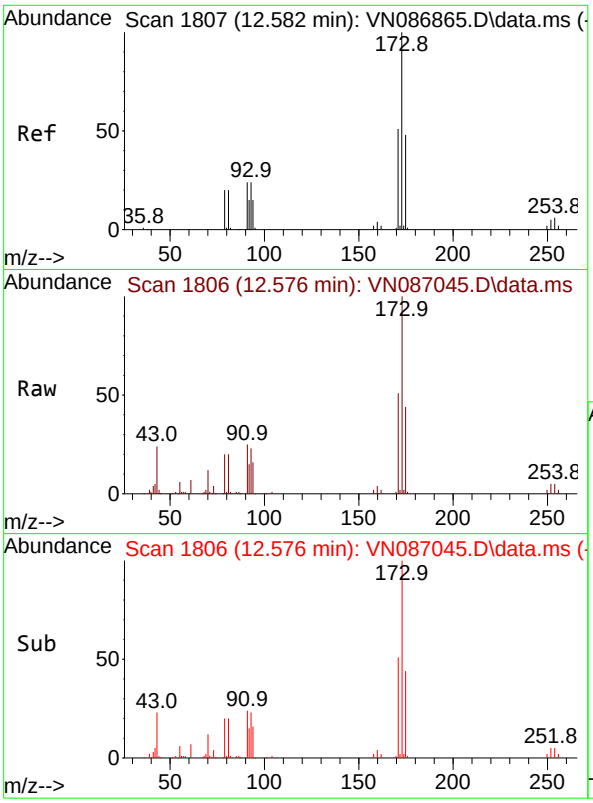


#70
Styrene
Concen: 56.515 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:104 Resp: 374480

Ion	Ratio	Lower	Upper
104	100		
78	47.3	38.5	57.7
103	53.3	43.1	64.7

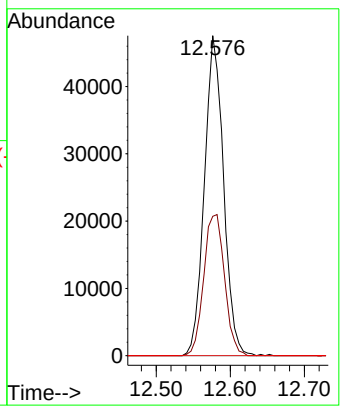




#71
Bromoform
Concen: 58.506 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:173 Resp: 8544

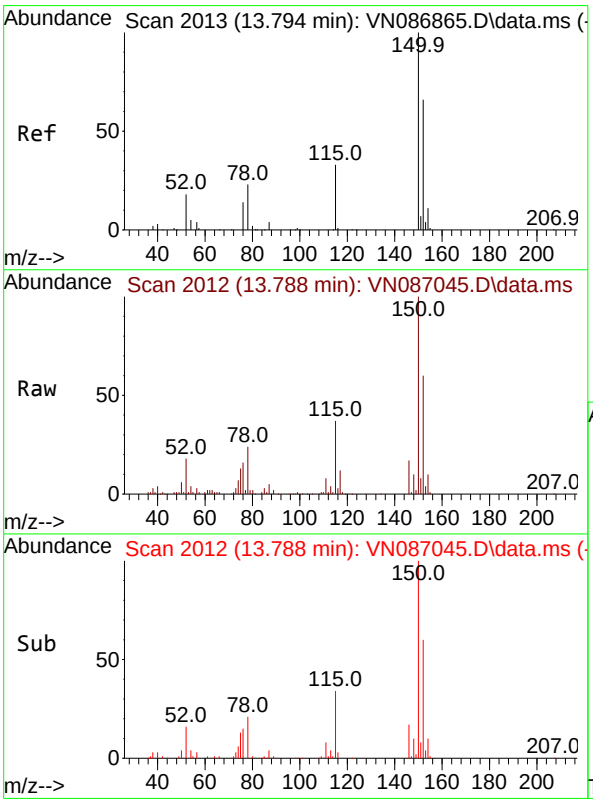
Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

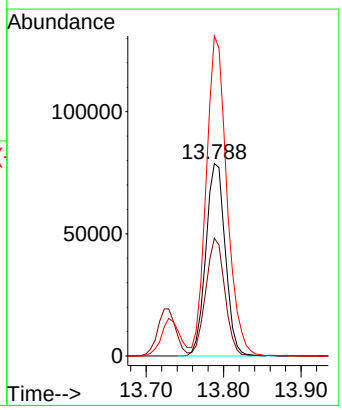
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

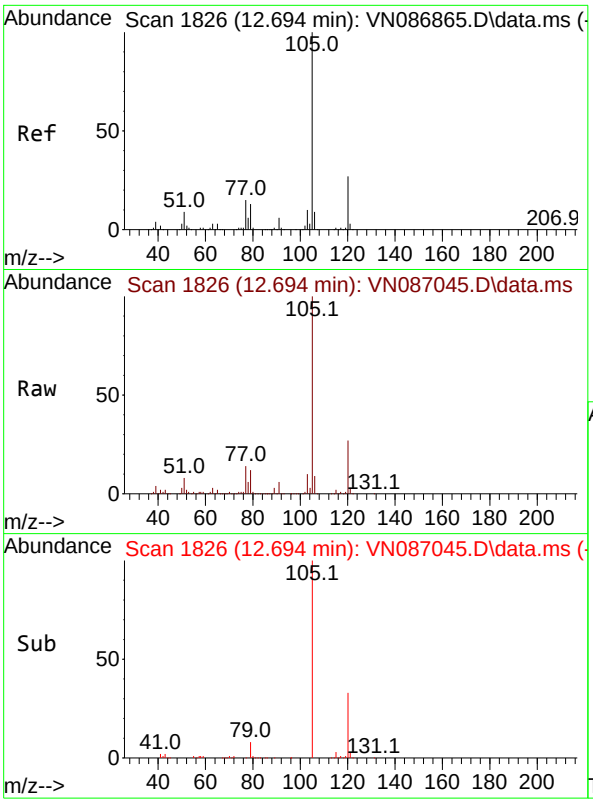


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:152 Resp: 137590

Ion	Ratio	Lower	Upper
152	100		
115	60.3	30.1	90.5
150	175.7	0.0	345.0

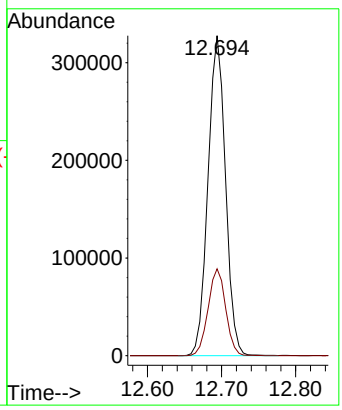




#73
Isopropylbenzene
Concen: 53.577 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:105 Resp: 53703

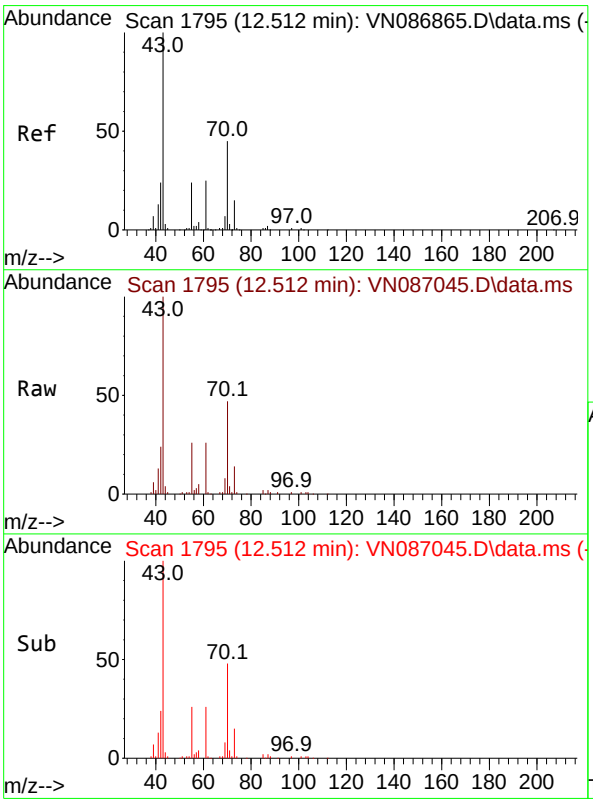
Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

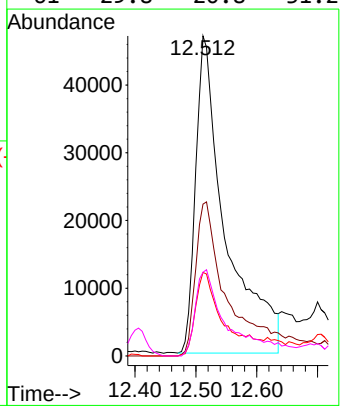
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

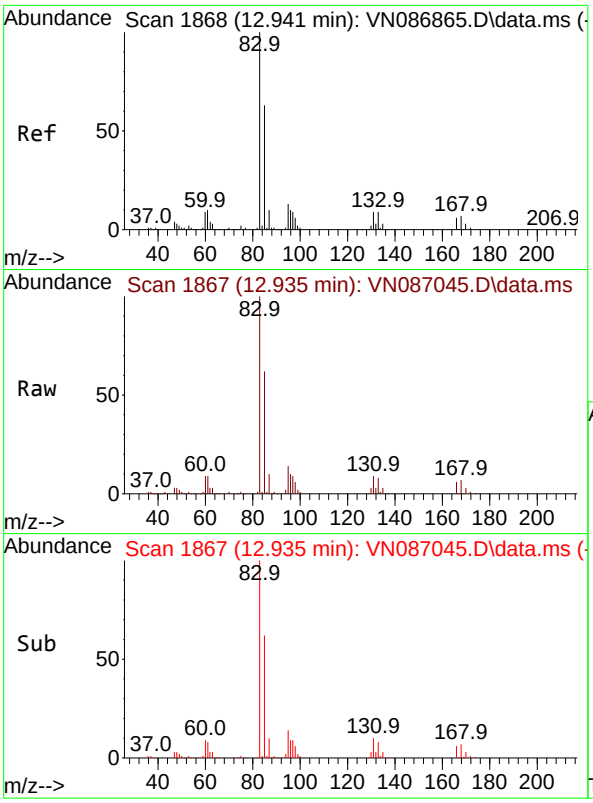


#74
N-amyl acetate
Concen: 45.690 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 43 Resp: 160037

Ion	Ratio	Lower	Upper
43	100		
70	56.8	37.6	56.4#
55	25.5	19.0	28.6
61	29.8	20.8	31.2

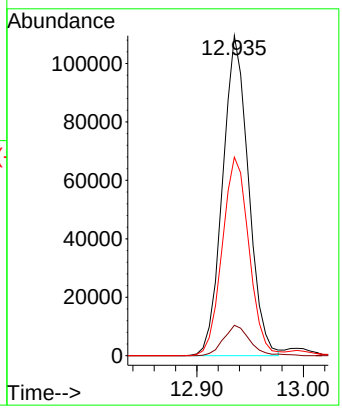




#75
1,1,2,2-Tetrachloroethane
Concen: 54.378 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 83 Resp: 18465

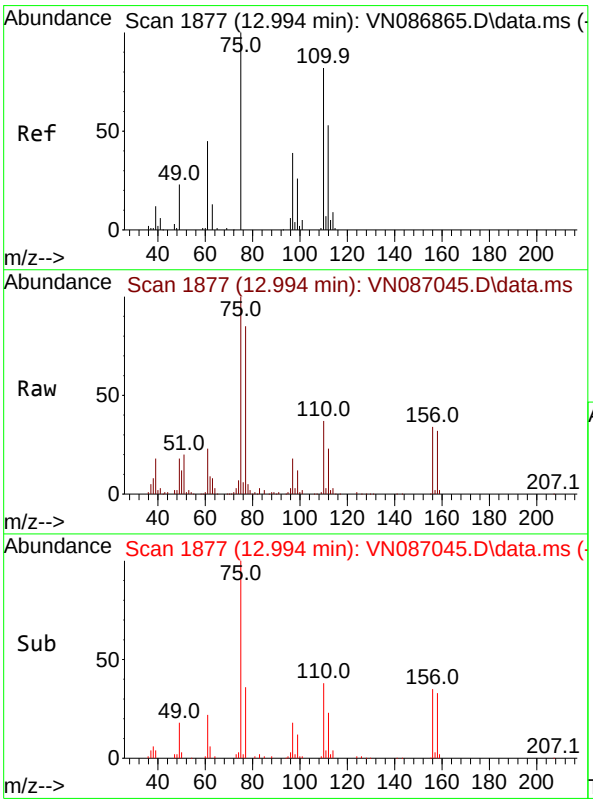
Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.9	14.7
85	64.3	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

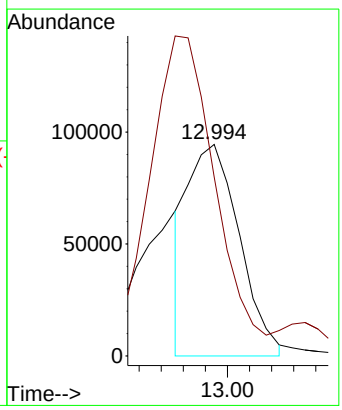
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

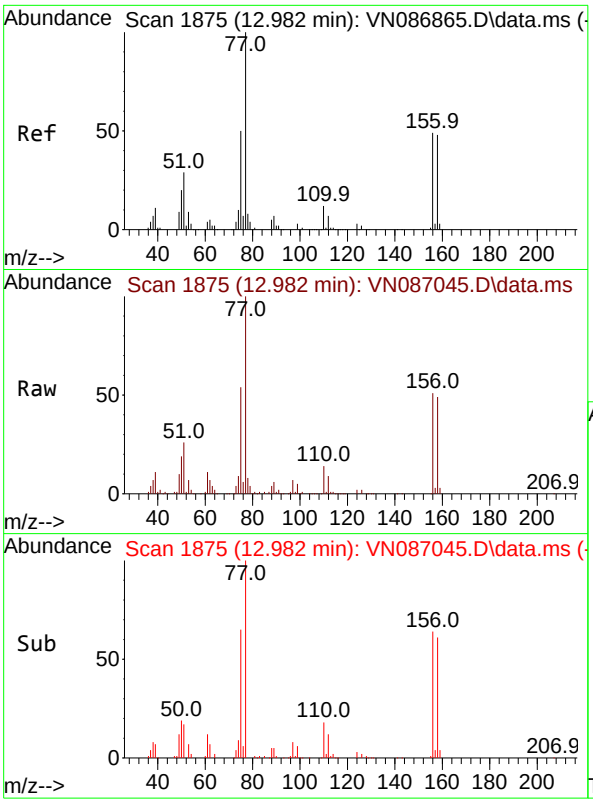


#76
1,2,3-Trichloropropane
Concen: 46.874 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 75 Resp: 153305

Ion	Ratio	Lower	Upper
75	100		
77	194.1	79.3	237.9





#77
Bromobenzene
Concen: 57.199 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

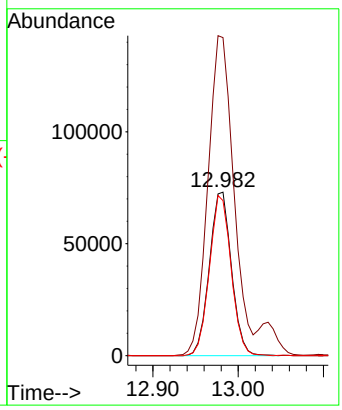
Tgt Ion:156 Resp: 13148

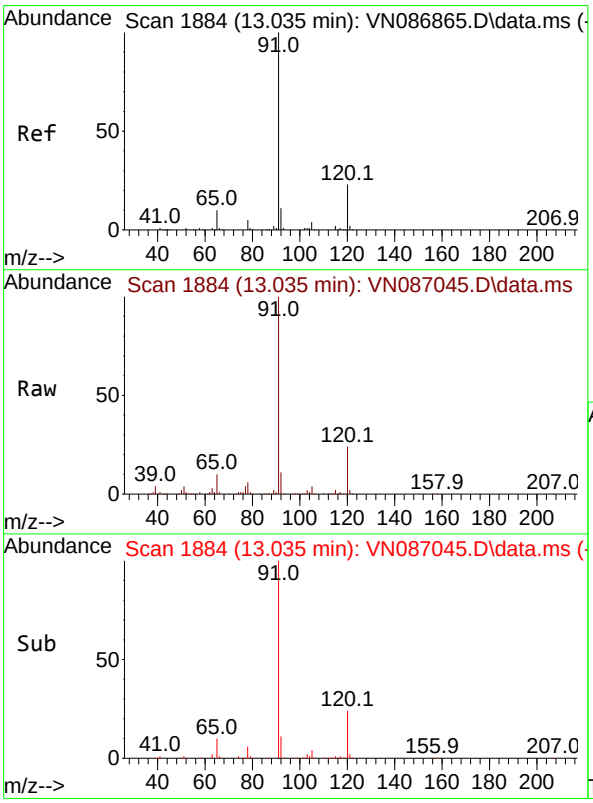
Ion	Ratio	Lower	Upper
156	100		
77	226.3	117.7	353.1
158	96.0	48.1	144.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

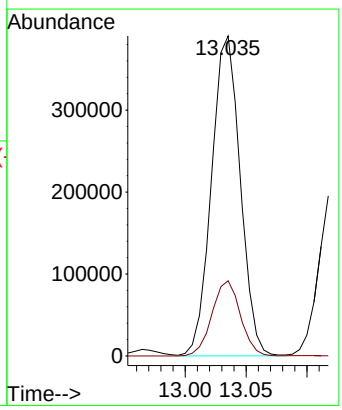


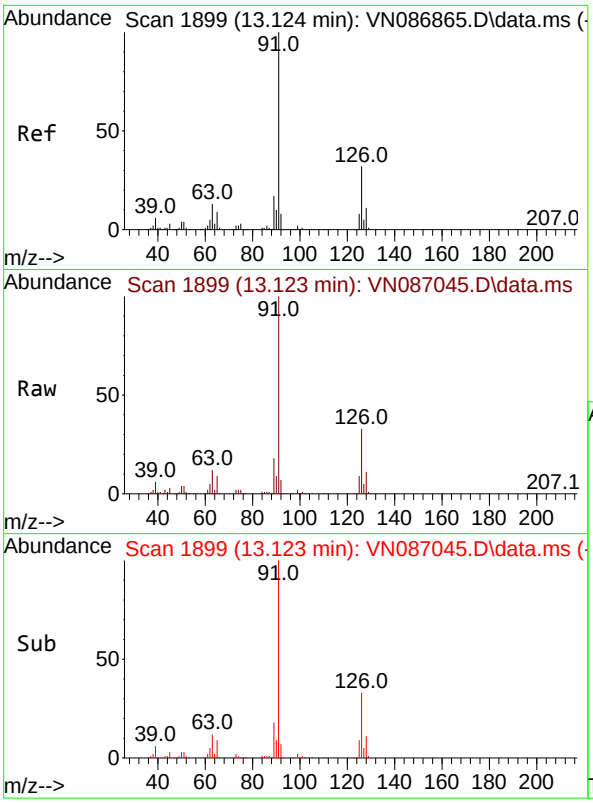


#78
n-propylbenzene
Concen: 52.692 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 91 Resp: 641851

Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.4	34.2





#79
2-Chlorotoluene
Concen: 52.729 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

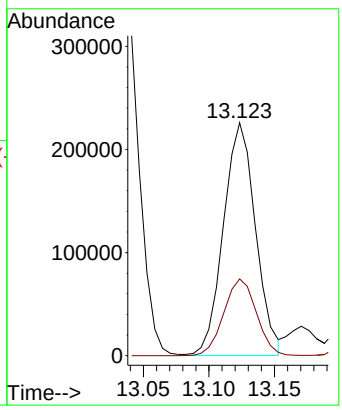
Tgt Ion: 91 Resp: 38519

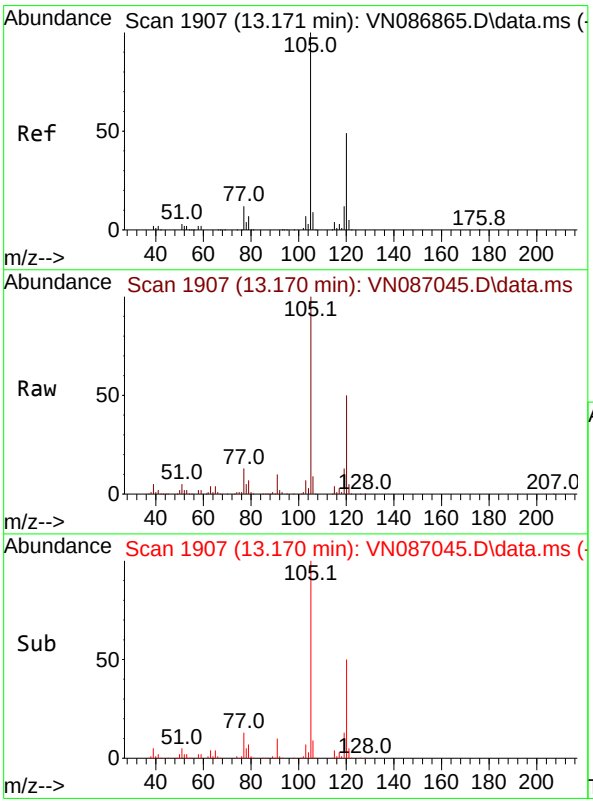
Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.2	48.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

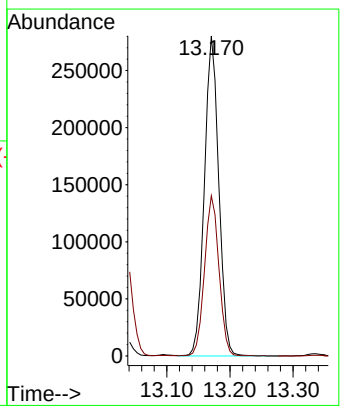


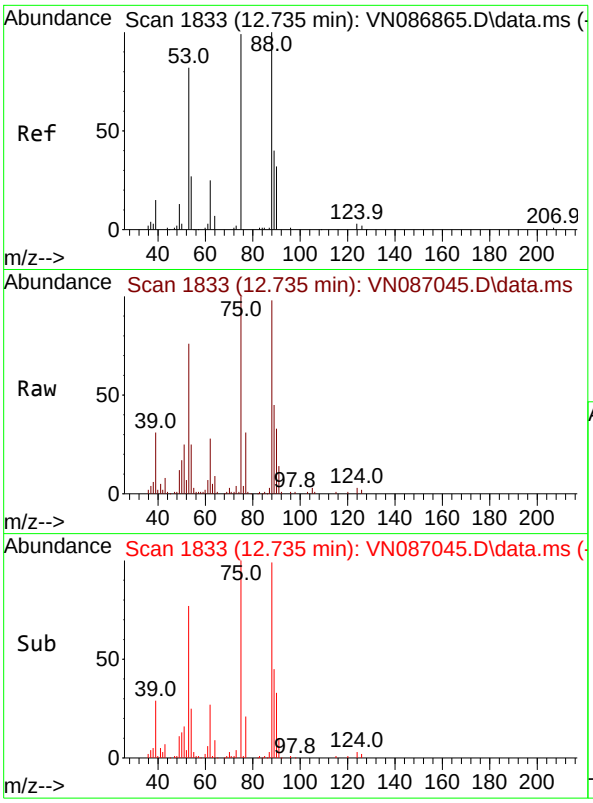


#80
1,3,5-Trimethylbenzene
Concen: 53.566 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:105 Resp: 443295

Ion	Ratio	Lower	Upper
105	100		
120	50.3	24.9	74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 49.906 ug/l m
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

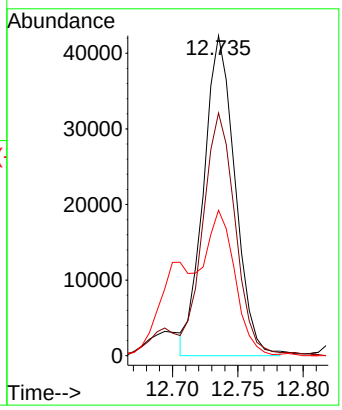
Tgt Ion: 75 Resp: 7090

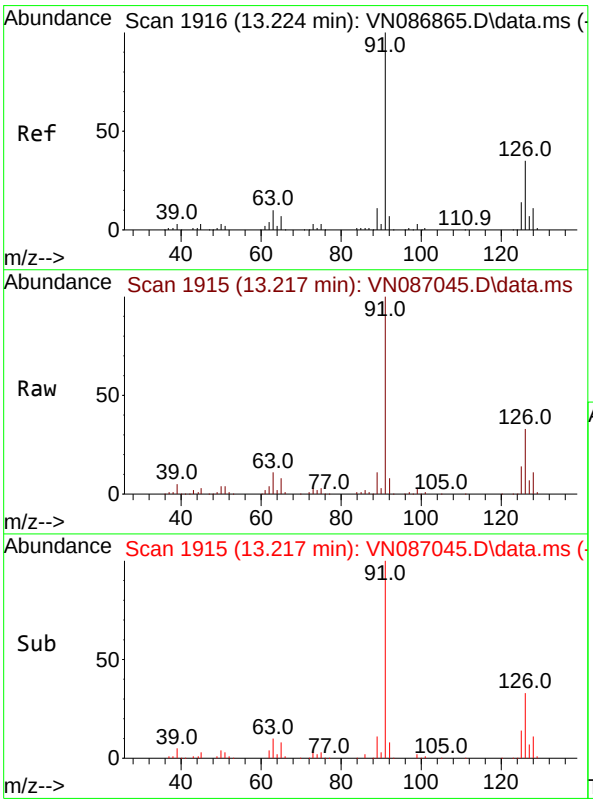
Ion	Ratio	Lower	Upper
75	100		
53	78.7	66.6	99.8
89	41.9	36.7	55.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

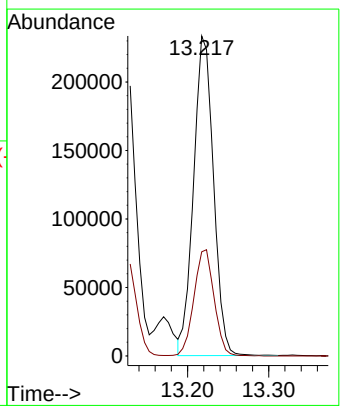


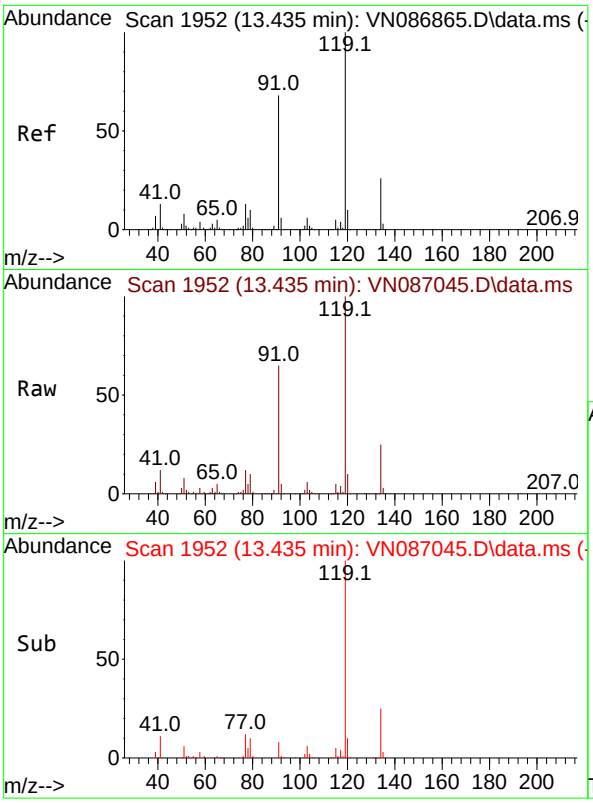


#82
4-Chlorotoluene
Concen: 53.869 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 91 Resp: 398180

Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.7	50.1





#83
tert-Butylbenzene
Concen: 49.969 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

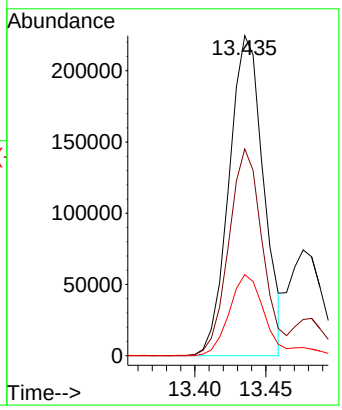
Tgt Ion:119 Resp: 37852

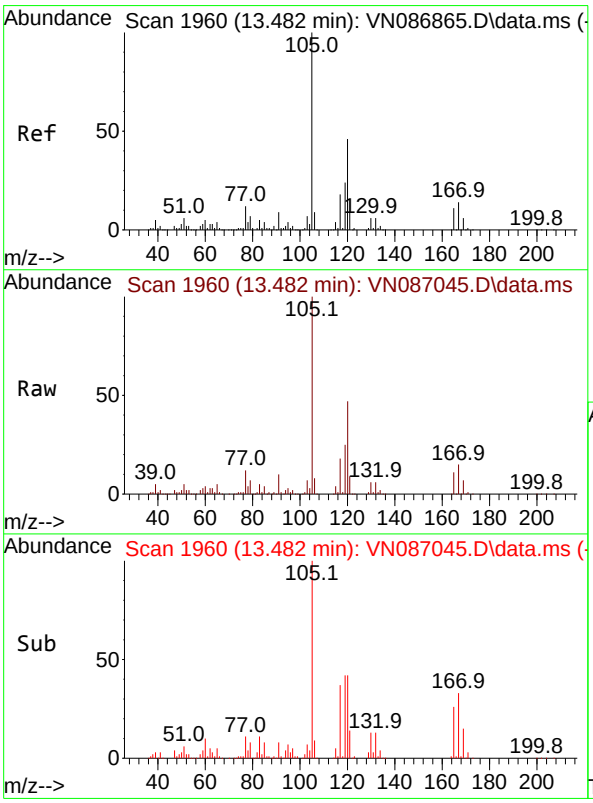
Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.1	96.5
134	27.2	13.4	40.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

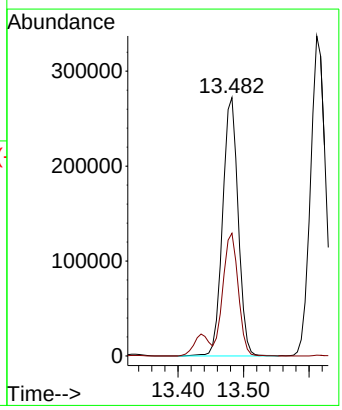


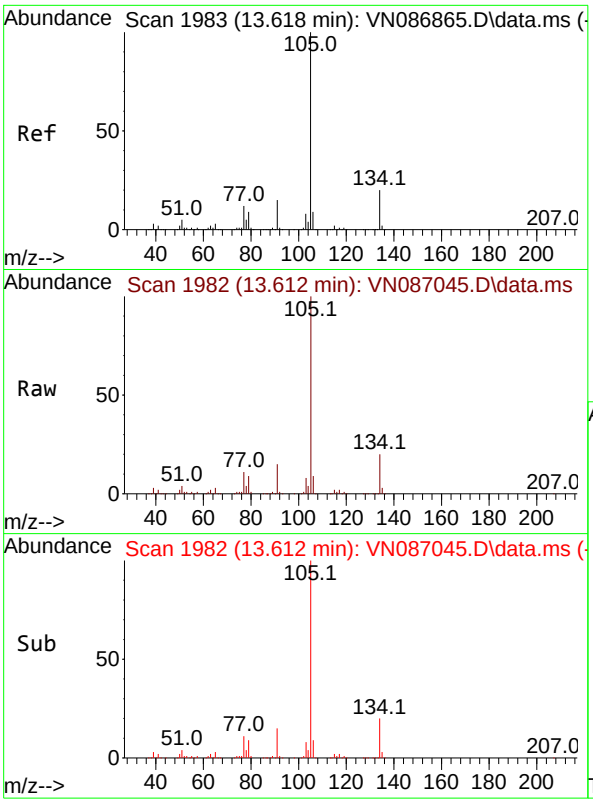


#84
1,2,4-Trimethylbenzene
Concen: 53.818 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:105 Resp: 446609

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.2	69.6

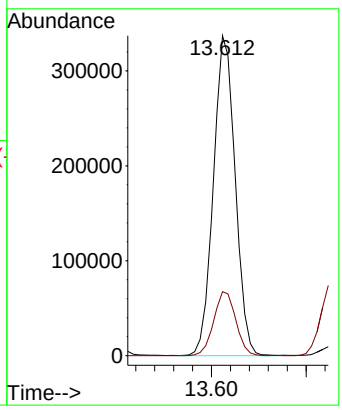




#85
sec-Butylbenzene
Concen: 49.041 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:105 Resp: 53950

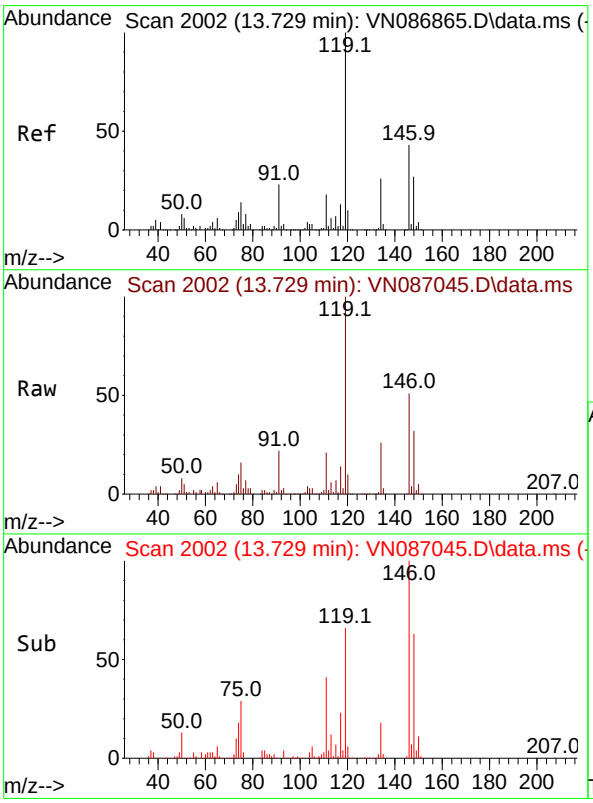
Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.0	30.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

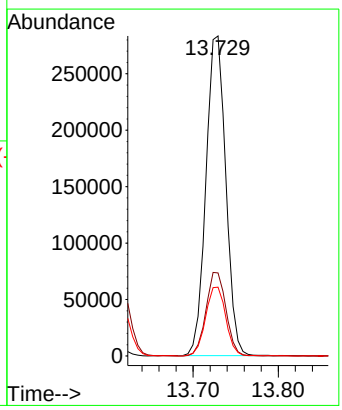
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

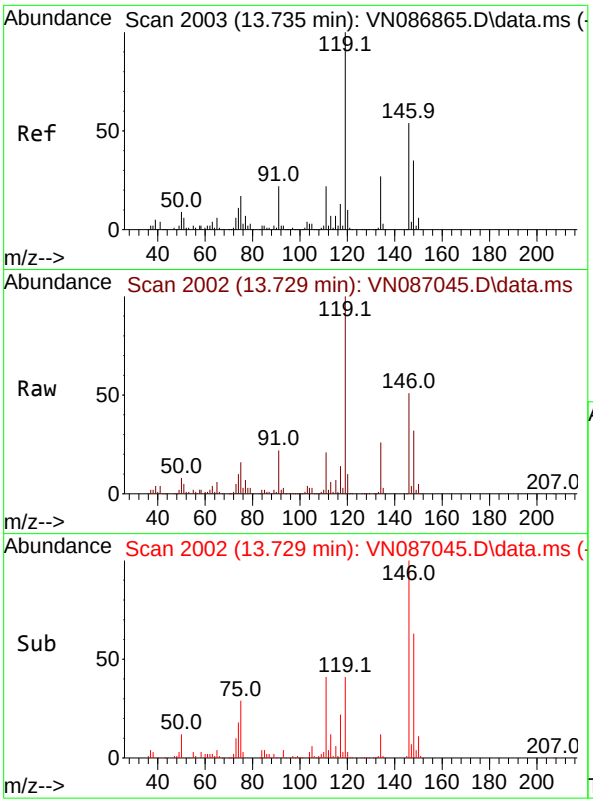


#86
p-Isopropyltoluene
Concen: 50.373 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:119 Resp: 458085

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.5	40.4
91	22.1	11.5	34.4

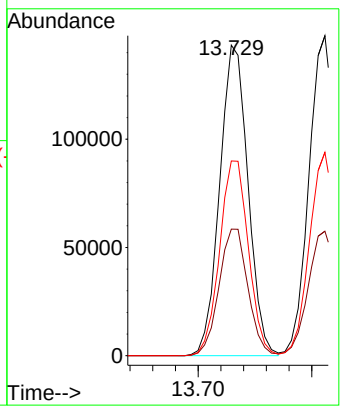




#87
1,3-Dichlorobenzene
Concen: 54.889 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:146 Resp: 24825

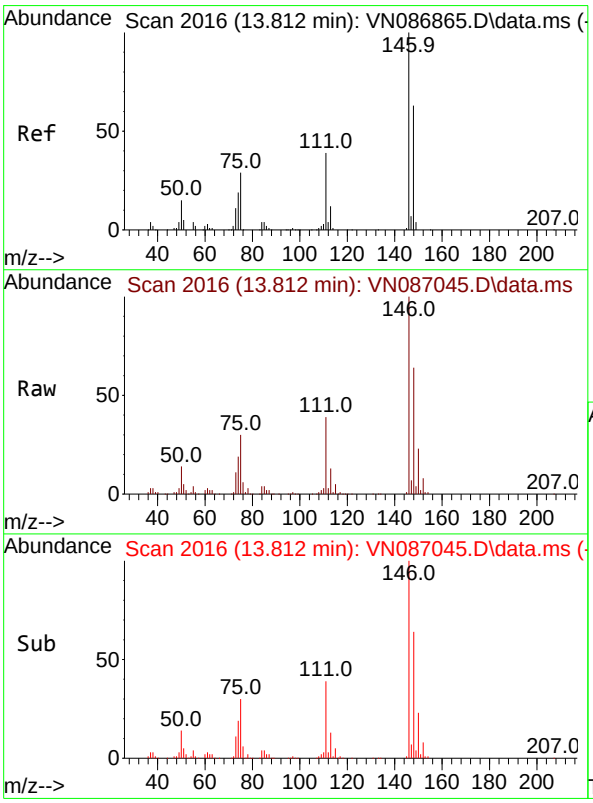
Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.9	62.8
148	63.8	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

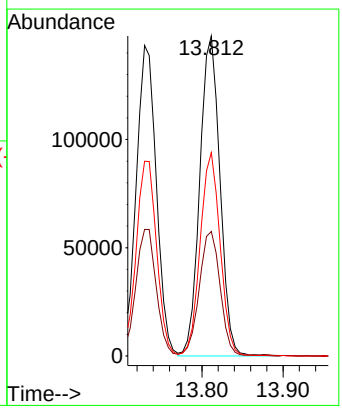
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

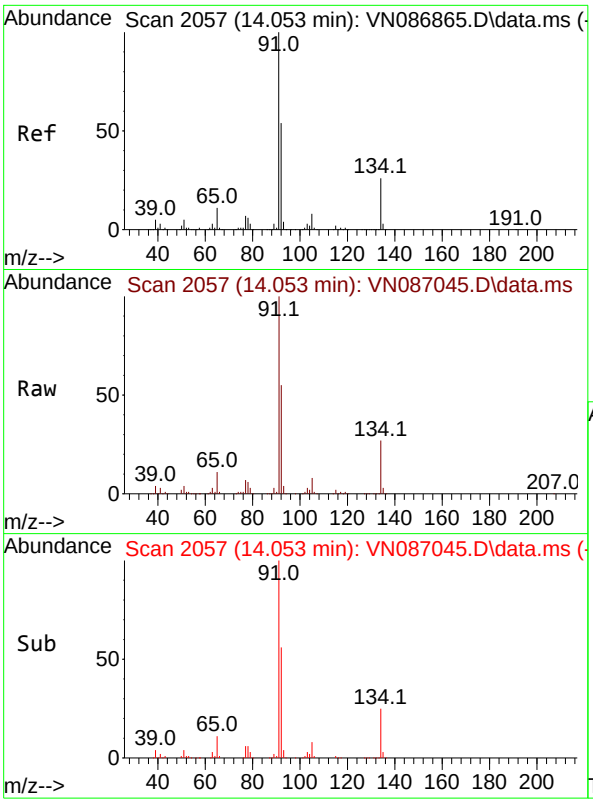


#88
1,4-Dichlorobenzene
Concen: 55.283 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:146 Resp: 254911

Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.9	59.7
148	63.0	31.8	95.4

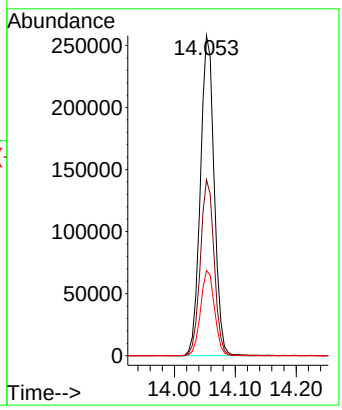




#89
n-Butylbenzene
Concen: 46.157 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 91 Resp: 40656

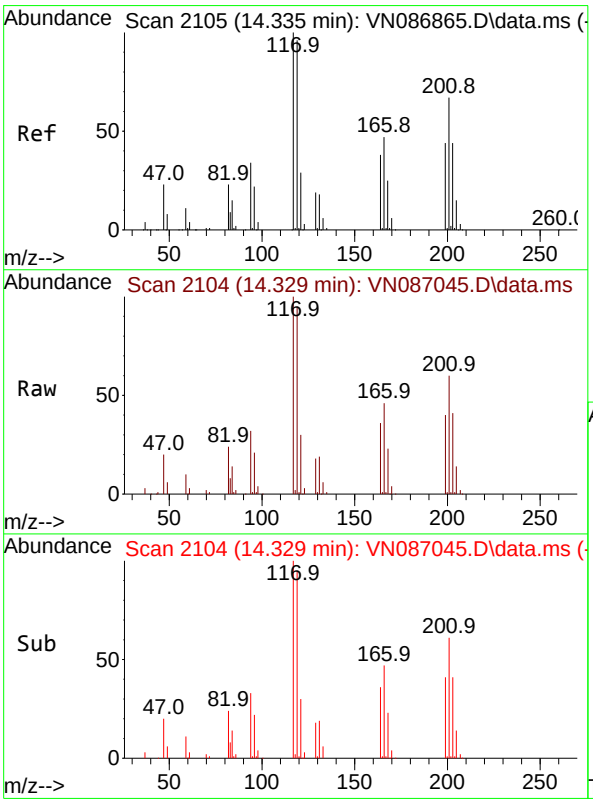
Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.5	82.4
134	26.9	13.0	39.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

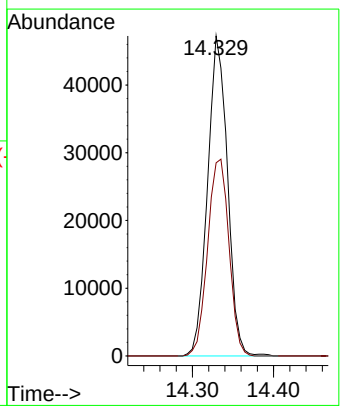
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

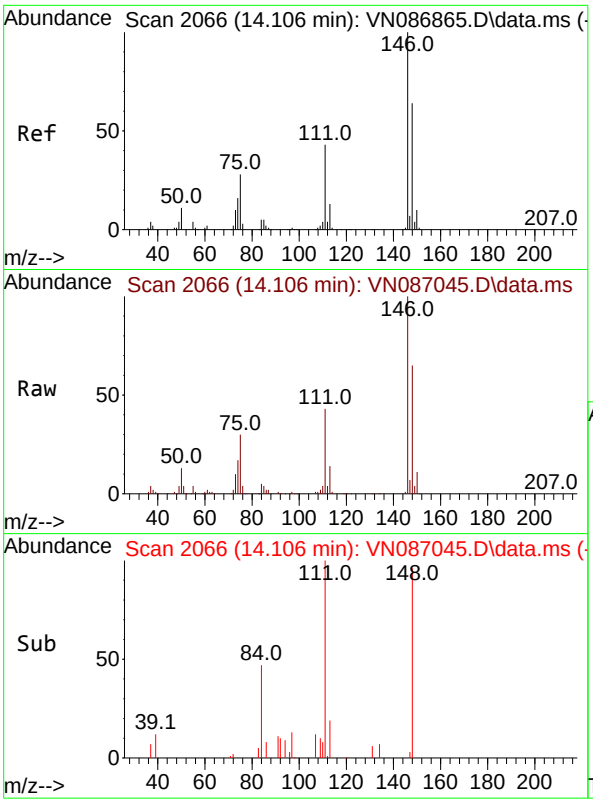


#90
Hexachloroethane
Concen: 52.187 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:117 Resp: 80443

Ion	Ratio	Lower	Upper
117	100		
201	65.9	33.2	99.6

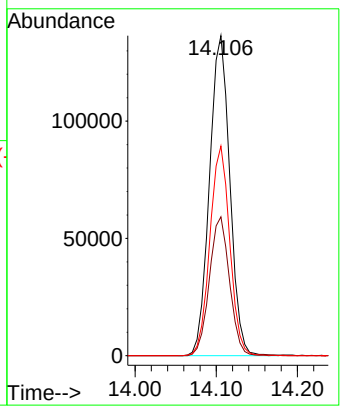




#91
1,2-Dichlorobenzene
Concen: 54.682 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:146 Resp: 23760

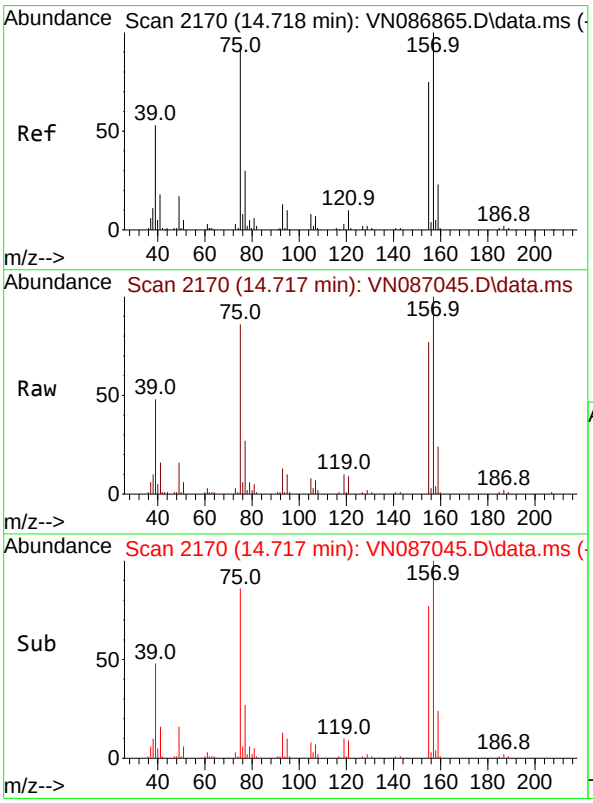
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.6	64.6
148	64.1	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

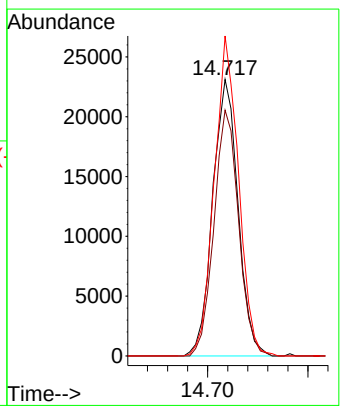
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

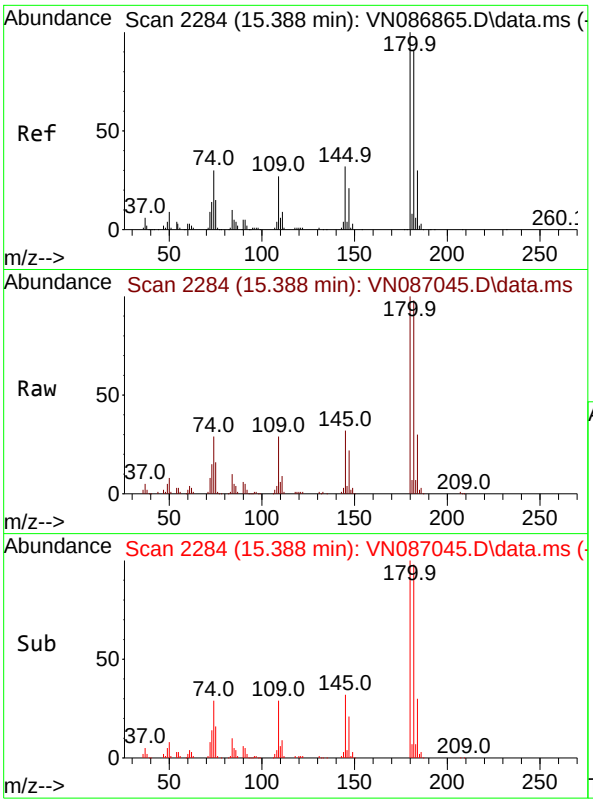


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.806 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 75 Resp: 40448

Ion	Ratio	Lower	Upper
75	100		
155	86.4	41.1	123.4
157	111.0	52.7	158.1





#93
1,2,4-Trichlorobenzene
Concen: 48.485 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

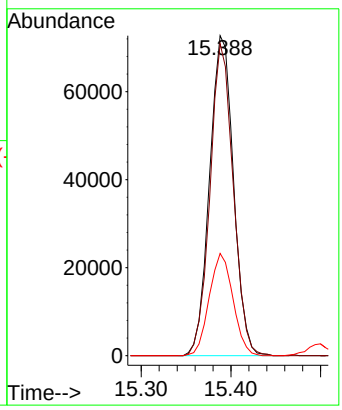
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

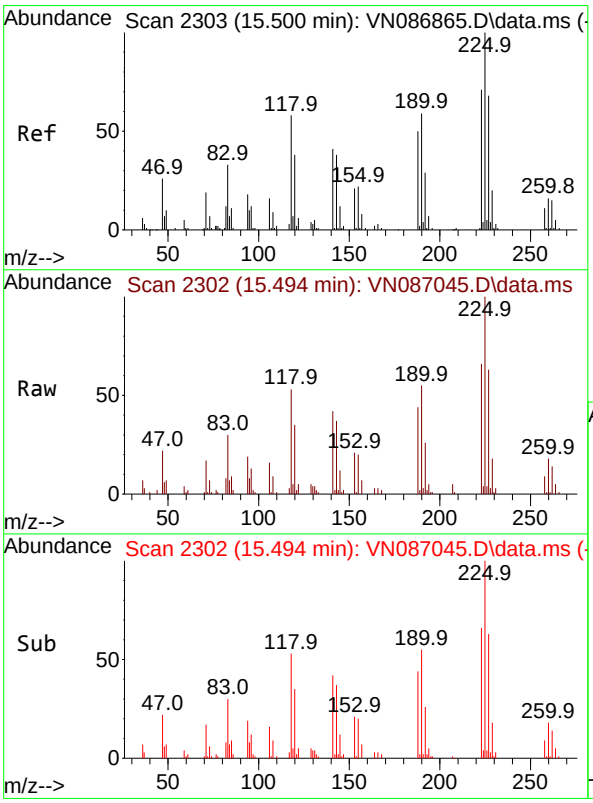
Tgt Ion:180 Resp: 13452

Ion	Ratio	Lower	Upper
180	100		
182	94.6	46.9	140.7
145	31.7	16.0	47.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

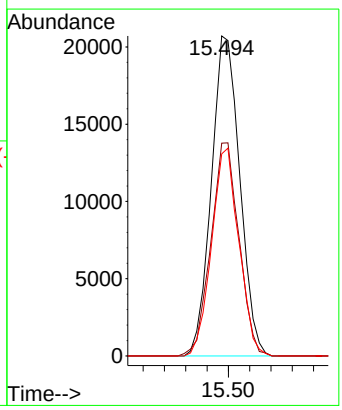


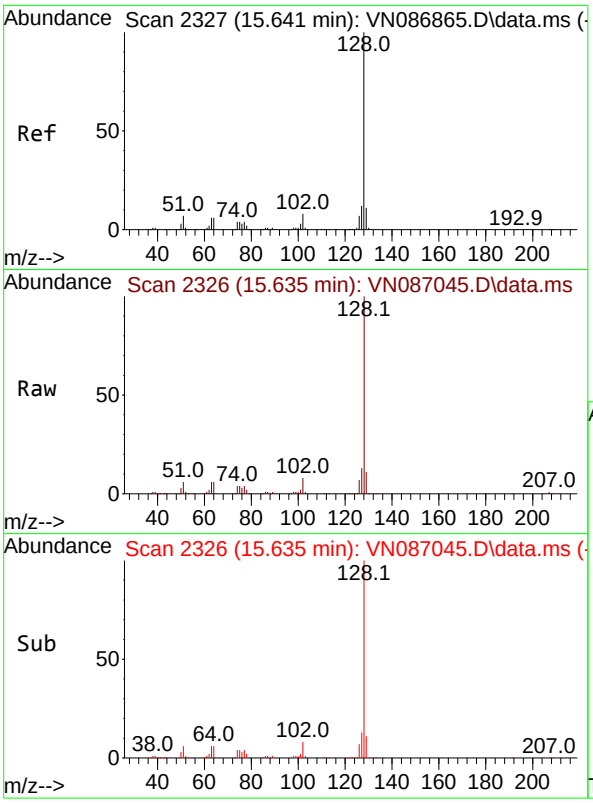


#94
Hexachlorobutadiene
Concen: 37.091 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:225 Resp: 38343

Ion	Ratio	Lower	Upper
225	100		
223	65.8	33.5	100.4
227	62.3	31.1	93.5

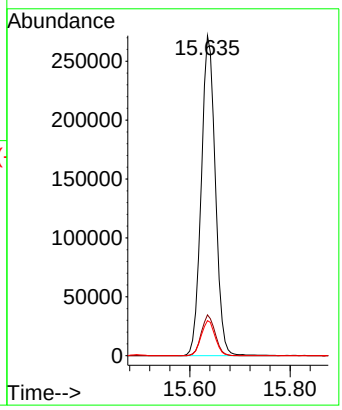




#95
Naphthalene
Concen: 51.304 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:128 Resp: 52985

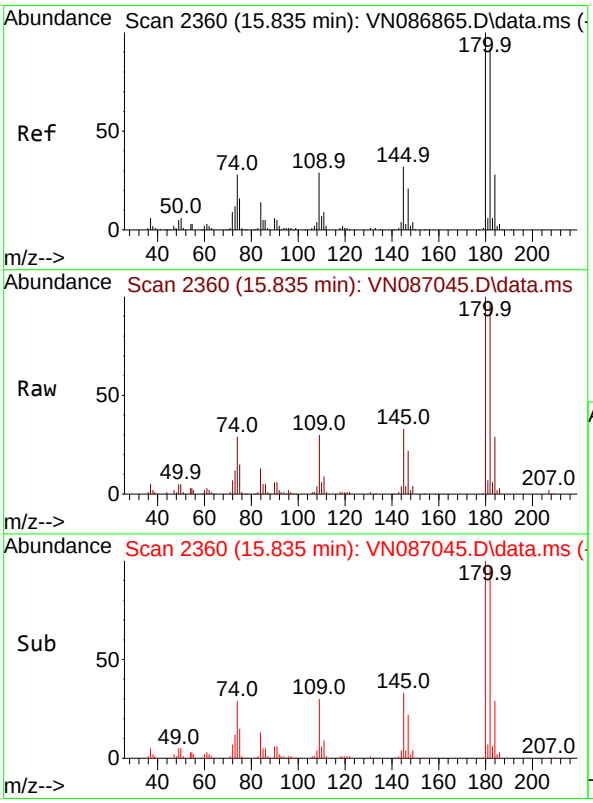
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	10.8	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

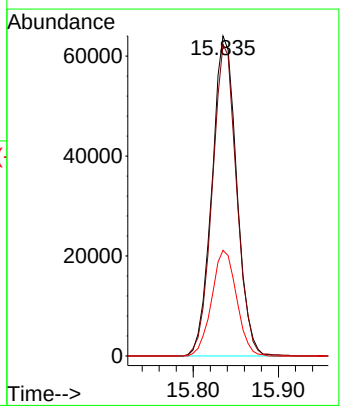
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 46.739 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:180 Resp: 128848

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.0	141.0
145	33.2	16.6	49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	86	0.00
2	T	Dichlorodifluoromethane	0.499	0.589	-18.0	101	0.00
3	P	Chloromethane	0.644	0.606	5.9	87	0.00
4	C	Vinyl Chloride	0.664	0.787	-18.5#	106	0.00
5	T	Bromomethane	0.372	0.356	4.3	86	0.00
6	T	Chloroethane	0.429	0.494	-15.2	105	0.00
7	T	Trichlorofluoromethane	0.868	1.010	-16.4	104	0.00
8	T	Diethyl Ether	0.378	0.423	-11.9	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.545	0.630	-15.6	105	0.00
10	T	Methyl Iodide	0.707	0.394	44.3#	50#	0.00
11	T	Tert butyl alcohol	0.182	0.163	10.4	80	-0.01
12	CM	1,1-Dichloroethene	0.557	0.639	-14.7#	103	0.00
13	T	Acrolein	0.057	0.039	31.6#	75	0.00
14	T	Allyl chloride	0.923	0.933	-1.1	93	0.00
15	T	Acrylonitrile	0.425	0.431	-1.4	91	0.00
16	T	Acetone	0.355	0.377	-6.2	101	0.00
17	T	Carbon Disulfide	1.539	1.891	-22.9	114	0.01
18	T	Methyl Acetate	1.035	0.892	13.8	78	0.00
19	T	Methyl tert-butyl Ether	2.015	2.142	-6.3	96	0.00
20	T	Methylene Chloride	0.665	0.719	-8.1	102	0.00
21	T	trans-1,2-Dichloroethene	0.619	0.683	-10.3	104	0.00
22	T	Diisopropyl ether	1.945	2.001	-2.9	93	0.00
23	T	Vinyl Acetate	1.644	1.768	-7.5	96	0.00
24	P	1,1-Dichloroethane	1.120	1.224	-9.3	99	0.00
25	T	2-Butanone	0.577	0.533	7.6	83	0.00
26	T	2,2-Dichloropropane	0.871	1.061	-21.8	101	0.00
27	T	cis-1,2-Dichloroethene	0.740	0.822	-11.1	101	0.00
28	T	Bromochloromethane	0.550	0.446	18.9	83	0.00
29	T	Tetrahydrofuran	0.376	0.356	5.3	86	0.00
30	C	Chloroform	1.118	1.212	-8.4#	98	0.00
31	T	Cyclohexane	1.086	1.096	-0.9	94	0.00
32	T	1,1,1-Trichloroethane	0.951	1.020	-7.3	98	0.00
33	S	1,2-Dichloroethane-d4	0.669	0.621	7.2	107	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	82	0.00
35	S	Dibromofluoromethane	0.296	0.308	-4.1	116	0.00
36	T	1,1-Dichloropropene	0.442	0.516	-16.7	102	0.00
37	T	Ethyl Acetate	0.562	0.591	-5.2	91	0.00
38	T	Carbon Tetrachloride	0.433	0.499	-15.2	101	0.00
39	T	Methylcyclohexane	0.605	0.619	-2.3	89	0.00
40	TM	Benzene	1.444	1.635	-13.2	100	0.00
41	T	Methacrylonitrile	0.316	0.312	1.3	85	0.00
42	TM	1,2-Dichloroethane	0.438	0.487	-11.2	98	0.00
43	T	Isopropyl Acetate	0.902	0.908	-0.7	88	0.00
44	TM	Trichloroethene	0.342	0.394	-15.2	99	0.00
45	C	1,2-Dichloropropane	0.351	0.393	-12.0#	98	0.00
46	T	Dibromomethane	0.233	0.273	-17.2	102	0.00
47	T	Bromodichloromethane	0.480	0.543	-13.1	98	0.00
48	T	Methyl methacrylate	0.415	0.417	-0.5	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.008	0.008	0.0	83	0.00
50	S	Toluene-d8	1.173	1.147	2.2	110	0.00
51	T	4-Methyl-2-Pentanone	0.543	0.560	-3.1	86	0.00
52	CM	Toluene	0.882	1.011	-14.6#	100	0.00
53	T	t-1,3-Dichloropropene	0.537	0.611	-13.8	97	0.00
54	T	cis-1,3-Dichloropropene	0.574	0.657	-14.5	98	0.00
55	T	1,1,2-Trichloroethane	0.340	0.378	-11.2	97	0.00
56	T	Ethyl methacrylate	0.541	0.627	-15.9	93	0.00
57	T	1,3-Dichloropropane	0.589	0.659	-11.9	97	0.00
58	T	2-Chloroethyl Vinyl ether	0.323	0.314	2.8	94	0.00
59	T	2-Hexanone	0.350	0.372	-6.3	83	0.00
60	T	Dibromochloromethane	0.354	0.410	-15.8	99	0.00
61	T	1,2-Dibromoethane	0.348	0.393	-12.9	98	0.00
62	S	4-Bromofluorobenzene	0.436	0.427	2.1	108	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
64	T	Tetrachloroethene	0.316	0.349	-10.4	99	0.00
65	PM	Chlorobenzene	1.103	1.212	-9.9	99	0.00
66	T	1,1,1,2-Tetrachloroethane	0.354	0.397	-12.1	98	0.00
67	C	Ethyl Benzene	1.899	2.062	-8.6#	96	0.00
68	T	m/p-Xylenes	0.727	0.826	-13.6	98	0.00
69	T	o-Xylene	0.696	0.785	-12.8	97	0.00
70	T	Styrene	1.192	1.347	-13.0	97	0.00
71	P	Bromoform	0.263	0.307	-16.7	97	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82	0.00
73	T	Isopropylbenzene	3.643	3.903	-7.1	94	0.00
74	T	N-amyl acetate	1.273	1.163	8.6	75	0.00
75	P	1,1,2,2-Tetrachloroethane	1.234	1.342	-8.8	94	0.00
76	T	1,2,3-Trichloropropane	1.189	1.114	6.3	78	0.00
77	T	Bromobenzene	0.835	0.956	-14.5	99	0.00
78	T	n-propylbenzene	4.427	4.665	-5.4	91	0.00
79	T	2-Chlorotoluene	2.655	2.800	-5.5	92	0.00
80	T	1,3,5-Trimethylbenzene	3.007	3.222	-7.1	91	0.00
81	T	trans-1,4-Dichloro-2-butene	0.516	0.515	0.2	89	0.00
82	T	4-Chlorotoluene	2.686	2.894	-7.7	94	0.00
83	T	tert-Butylbenzene	2.753	2.751	0.1	86	0.00
84	T	1,2,4-Trimethylbenzene	3.016	3.246	-7.6	91	0.00
85	T	sec-Butylbenzene	3.998	3.921	1.9	84	0.00
86	T	p-Isopropyltoluene	3.305	3.329	-0.7	86	0.00
87	T	1,3-Dichlorobenzene	1.644	1.804	-9.7	95	0.00
88	T	1,4-Dichlorobenzene	1.676	1.853	-10.6	97	0.00
89	T	n-Butylbenzene	3.201	2.955	7.7	79	0.00
90	T	Hexachloroethane	0.560	0.585	-4.5	89	0.00
91	T	1,2-Dichlorobenzene	1.579	1.727	-9.4	95	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.295	0.294	0.3	89	0.00
93	T	1,2,4-Trichlorobenzene	1.008	0.978	3.0	83	0.00
94	T	Hexachlorobutadiene	0.376	0.279	25.8#	63	0.00
95	T	Naphthalene	3.753	3.851	-2.6	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	0.936	6.6	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	86	0.00
2	T	Dichlorodifluoromethane	50.000	59.114	-18.2	101	0.00
3	P	Chloromethane	50.000	47.054	5.9	87	0.00
4	C	Vinyl Chloride	50.000	59.218	-18.4#	106	0.00
5	T	Bromomethane	50.000	47.883	4.2	86	0.00
6	T	Chloroethane	50.000	57.621	-15.2	105	0.00
7	T	Trichlorofluoromethane	50.000	58.179	-16.4	104	0.00
8	T	Diethyl Ether	50.000	56.010	-12.0	101	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	57.783	-15.6	105	0.00
10	T	Methyl Iodide	50.000	27.875	44.3#	50	0.00
11	T	Tert butyl alcohol	250.000	224.604	10.2	80	-0.01
12	CM	1,1-Dichloroethene	50.000	57.428	-14.9#	103	0.00
13	T	Acrolein	250.000	171.293	31.5#	75	0.00
14	T	Allyl chloride	50.000	50.559	-1.1	93	0.00
15	T	Acrylonitrile	250.000	253.912	-1.6	91	0.00
16	T	Acetone	250.000	265.816	-6.3	101	0.00
17	T	Carbon Disulfide	50.000	61.422	-22.8	114	0.01
18	T	Methyl Acetate	50.000	43.119	13.8	78	0.00
19	T	Methyl tert-butyl Ether	50.000	53.139	-6.3	96	0.00
20	T	Methylene Chloride	50.000	54.089	-8.2	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	55.186	-10.4	104	0.00
22	T	Diisopropyl ether	50.000	51.415	-2.8	93	0.00
23	T	Vinyl Acetate	250.000	268.963	-7.6	96	0.00
24	P	1,1-Dichloroethane	50.000	54.677	-9.4	99	0.00
25	T	2-Butanone	250.000	230.777	7.7	83	0.00
26	T	2,2-Dichloropropane	50.000	60.894	-21.8	101	0.00
27	T	cis-1,2-Dichloroethene	50.000	55.499	-11.0	101	0.00
28	T	Bromochloromethane	50.000	40.537	18.9	83	0.00
29	T	Tetrahydrofuran	250.000	236.990	5.2	86	0.00
30	C	Chloroform	50.000	54.181	-8.4#	98	0.00
31	T	Cyclohexane	50.000	50.460	-0.9	94	0.00
32	T	1,1,1-Trichloroethane	50.000	53.614	-7.2	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	46.417	7.2	107	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	82	0.00
35	S	Dibromofluoromethane	50.000	51.895	-3.8	116	0.00
36	T	1,1-Dichloropropene	50.000	58.436	-16.9	102	0.00
37	T	Ethyl Acetate	50.000	52.606	-5.2	91	0.00
38	T	Carbon Tetrachloride	50.000	57.605	-15.2	101	0.00
39	T	Methylcyclohexane	50.000	51.151	-2.3	89	0.00
40	TM	Benzene	50.000	56.603	-13.2	100	0.00
41	T	Methacrylonitrile	50.000	49.441	1.1	85	0.00
42	TM	1,2-Dichloroethane	50.000	55.609	-11.2	98	0.00
43	T	Isopropyl Acetate	50.000	50.333	-0.7	88	0.00
44	TM	Trichloroethene	50.000	57.509	-15.0	99	0.00
45	C	1,2-Dichloropropane	50.000	55.952	-11.9#	98	0.00
46	T	Dibromomethane	50.000	58.510	-17.0	102	0.00
47	T	Bromodichloromethane	50.000	56.550	-13.1	98	0.00
48	T	Methyl methacrylate	50.000	50.271	-0.5	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1045.473	-4.5	83	0.00
50	S	Toluene-d8	50.000	48.901	2.2	110	0.00
51	T	4-Methyl-2-Pentanone	250.000	257.739	-3.1	86	0.00
52	CM	Toluene	50.000	57.288	-14.6#	100	0.00
53	T	t-1,3-Dichloropropene	50.000	56.893	-13.8	97	0.00
54	T	cis-1,3-Dichloropropene	50.000	57.231	-14.5	98	0.00
55	T	1,1,2-Trichloroethane	50.000	55.740	-11.5	97	0.00
56	T	Ethyl methacrylate	50.000	57.976	-16.0	93	0.00
57	T	1,3-Dichloropropane	50.000	55.947	-11.9	97	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	243.555	2.6	94	0.00
59	T	2-Hexanone	250.000	265.542	-6.2	83	0.00
60	T	Dibromochloromethane	50.000	57.909	-15.8	99	0.00
61	T	1,2-Dibromoethane	50.000	56.449	-12.9	98	0.00
62	S	4-Bromofluorobenzene	50.000	49.036	1.9	108	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	84	0.00
64	T	Tetrachloroethene	50.000	55.204	-10.4	99	0.00
65	PM	Chlorobenzene	50.000	54.968	-9.9	99	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.061	-12.1	98	0.00
67	C	Ethyl Benzene	50.000	54.279	-8.6#	96	0.00
68	T	m/p-Xylenes	100.000	113.581	-13.6	98	0.00
69	T	o-Xylene	50.000	56.391	-12.8	97	0.00
70	T	Styrene	50.000	56.515	-13.0	97	0.00
71	P	Bromoform	50.000	58.506	-17.0	97	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	82	0.00
73	T	Isopropylbenzene	50.000	53.577	-7.2	94	0.00
74	T	N-amyl acetate	50.000	45.690	8.6	75	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.378	-8.8	94	0.00
76	T	1,2,3-Trichloropropane	50.000	46.874	6.3	78	0.00
77	T	Bromobenzene	50.000	57.199	-14.4	99	0.00
78	T	n-propylbenzene	50.000	52.692	-5.4	91	0.00
79	T	2-Chlorotoluene	50.000	52.729	-5.5	92	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.566	-7.1	91	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	49.906	0.2	89	0.00
82	T	4-Chlorotoluene	50.000	53.869	-7.7	94	0.00
83	T	tert-Butylbenzene	50.000	49.969	0.1	86	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.818	-7.6	91	0.00
85	T	sec-Butylbenzene	50.000	49.041	1.9	84	0.00
86	T	p-Isopropyltoluene	50.000	50.373	-0.7	86	0.00
87	T	1,3-Dichlorobenzene	50.000	54.889	-9.8	95	0.00
88	T	1,4-Dichlorobenzene	50.000	55.283	-10.6	97	0.00
89	T	n-Butylbenzene	50.000	46.157	7.7	79	0.00
90	T	Hexachloroethane	50.000	52.187	-4.4	89	0.00
91	T	1,2-Dichlorobenzene	50.000	54.682	-9.4	95	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.806	0.4	89	0.00
93	T	1,2,4-Trichlorobenzene	50.000	48.485	3.0	83	0.00
94	T	Hexachlorobutadiene	50.000	37.091	25.8#	63	0.00
95	T	Naphthalene	50.000	51.304	-2.6	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	46.739	6.5	81	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date/Time: 06/17/2025 19:43

Lab File ID: VN087072.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.499	0.522		4.61	50
Chloromethane	0.644	0.570	0.1	-11.49	50
Vinyl Chloride	0.664	0.724		9.04	50
Bromomethane	0.372	0.372		0	50
Chloroethane	0.429	0.461		7.46	50
Trichlorofluoromethane	0.868	0.926		6.68	50
1,1,2-Trichlorotrifluoroethane	0.545	0.565		3.67	50
1,1-Dichloroethene	0.557	0.599		7.54	50
Acetone	0.355	0.310		-12.68	50
Carbon Disulfide	1.539	1.729		12.35	50
Methyl tert-butyl Ether	2.015	2.049		1.69	50
Methyl Acetate	1.035	0.857		-17.2	50
Methylene Chloride	0.665	0.668		0.45	50
trans-1,2-Dichloroethene	0.619	0.637		2.91	50
1,1-Dichloroethane	1.120	1.150	0.1	2.68	50
Cyclohexane	1.086	0.996		-8.29	50
2-Butanone	0.577	0.516		-10.57	50
Carbon Tetrachloride	0.433	0.449		3.69	50
cis-1,2-Dichloroethene	0.740	0.774		4.59	50
Bromochloromethane	0.550	0.472		-14.18	50
Chloroform	1.118	1.142		2.15	50
1,1,1-Trichloroethane	0.951	0.961		1.05	50
Methylcyclohexane	0.605	0.525		-13.22	50
Benzene	1.444	1.486		2.91	50
1,2-Dichloroethane	0.438	0.437		-0.23	50
Trichloroethene	0.342	0.363		6.14	50
1,2-Dichloropropane	0.351	0.361		2.85	50
Bromodichloromethane	0.480	0.486		1.25	50
4-Methyl-2-Pentanone	0.543	0.513		-5.53	50
Toluene	0.882	0.916		3.86	50
t-1,3-Dichloropropene	0.537	0.548		2.05	50
cis-1,3-Dichloropropene	0.574	0.595		3.66	50
1,1,2-Trichloroethane	0.340	0.348		2.35	50
2-Hexanone	0.350	0.341		-2.57	50
Dibromochloromethane	0.354	0.380		7.34	50
1,2-Dibromoethane	0.348	0.369		6.03	50
Tetrachloroethene	0.316	0.321		1.58	50
Chlorobenzene	1.103	1.160	0.3	5.17	50

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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date/Time: 06/17/2025 19:43

Lab File ID: VN087072.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.900	1.932		1.68	50
m/p-Xylenes	0.727	0.761		4.68	50
o-Xylene	0.696	0.736		5.75	50
Styrene	1.192	1.265		6.12	50
Bromoform	0.263	0.290	0.1	10.27	50
Isopropylbenzene	3.643	3.620		-0.63	50
1,1,2,2-Tetrachloroethane	1.234	1.264	0.3	2.43	50
1,3-Dichlorobenzene	1.644	1.683		2.37	50
1,4-Dichlorobenzene	1.676	1.712		2.15	50
1,2-Dichlorobenzene	1.579	1.637		3.67	50
1,2-Dibromo-3-Chloropropane	0.295	0.282		-4.41	50
1,2,4-Trichlorobenzene	1.008	0.885		-12.2	50
1,2,3-Trichlorobenzene	1.002	0.861		-14.07	50
1,2-Dichloroethane-d4	0.669	0.576		-13.9	50
Dibromofluoromethane	0.296	0.279		-5.74	50
Toluene-d8	1.173	1.030		-12.19	50
4-Bromofluorobenzene	0.436	0.389		-10.78	50

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_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	167531	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	306106	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	265997	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131413	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	96562	43.049	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 86.100%			
35) Dibromofluoromethane	8.171	113	85268	47.004	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.000%			
50) Toluene-d8	10.565	98	315347	43.912	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 87.820%			
62) 4-Bromofluorobenzene	12.847	95	118929	44.575	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	87392	52.318	ug/l	98
3) Chloromethane	2.395	50	95478	44.264	ug/l	99
4) Vinyl Chloride	2.554	62	121364	54.544	ug/l	97
5) Bromomethane	2.995	94	62314	50.045	ug/l	98
6) Chloroethane	3.154	64	77262	53.756	ug/l	94
7) Trichlorofluoromethane	3.530	101	155166	53.374	ug/l	100
8) Diethyl Ether	3.983	74	66870	52.794	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.395	101	94617	51.804	ug/l	99
10) Methyl Iodide	4.612	142	77912	32.907	ug/l	95
11) Tert butyl alcohol	5.536	59	137228	225.470	ug/l	100
12) 1,1-Dichloroethene	4.371	96	100395	53.841	ug/l	96
13) Acrolein	4.206	56	75941	394.185	ug/l	99
14) Allyl chloride	5.048	41	144068	46.587	ug/l	96
15) Acrylonitrile	5.736	53	345548	242.901	ug/l	99
16) Acetone	4.448	43	259437	218.104	ug/l	93
17) Carbon Disulfide	4.742	76	289711	56.169	ug/l	100
18) Methyl Acetate	5.048	43	143655	41.442	ug/l	96
19) Methyl tert-butyl Ether	5.812	73	343279	50.844	ug/l	99
20) Methylene Chloride	5.300	84	111875	50.236	ug/l	96
21) trans-1,2-Dichloroethene	5.812	96	106782	51.471	ug/l	96
22) Diisopropyl ether	6.689	45	310324	47.606	ug/l	97
23) Vinyl Acetate	6.618	43	1377448	250.103	ug/l	98
24) 1,1-Dichloroethane	6.583	63	192690	51.366	ug/l	99
25) 2-Butanone	7.489	43	432033	223.445	ug/l	96
26) 2,2-Dichloropropane	7.500	77	144032	49.359	ug/l	98
27) cis-1,2-Dichloroethene	7.494	96	129711	52.279	ug/l	97
28) Bromochloromethane	7.818	49	79087	42.878	ug/l	93
29) Tetrahydrofuran	7.847	42	285560	226.717	ug/l	94
30) Chloroform	7.977	83	191328	51.071	ug/l	99
31) Cyclohexane	8.265	56	166881	45.871	ug/l	93
32) 1,1,1-Trichloroethane	8.177	97	160982	50.523	ug/l	96
36) 1,1-Dichloropropene	8.383	75	141500	52.347	ug/l	99
37) Ethyl Acetate	7.571	43	165471	48.087	ug/l	99
38) Carbon Tetrachloride	8.371	117	137539	51.827	ug/l	98
39) Methylcyclohexane	9.606	83	160557	43.354	ug/l	95
40) Benzene	8.612	78	454862	51.459	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.783	41	86338	44.676 ug/l		93
42) 1,2-Dichloroethane	8.677	62	133634	49.844 ug/l		99
43) Isopropyl Acetate	8.694	43	252941	45.798 ug/l		96
44) Trichloroethene	9.359	130	110988	52.953 ug/l		97
45) 1,2-Dichloropropane	9.624	63	110409	51.342 ug/l		99
46) Dibromomethane	9.712	93	76868	53.815 ug/l		99
47) Bromodichloromethane	9.888	83	148705	50.600 ug/l		99
48) Methyl methacrylate	9.683	41	115606	45.478 ug/l		94
49) 1,4-Dioxane	9.700	88	47314	1023.116 ug/l	#	97
51) 4-Methyl-2-Pentanone	10.447	43	785897	236.369 ug/l		97
52) Toluene	10.630	92	280299	51.889 ug/l		98
53) t-1,3-Dichloropropene	10.835	75	167848	51.076 ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	182228	51.826 ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	106560	51.266 ug/l		99
56) Ethyl methacrylate	10.882	69	173955	52.544 ug/l		93
57) 1,3-Dichloropropane	11.165	76	182424	50.593 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	473770	239.927 ug/l		98
59) 2-Hexanone	11.200	43	521841	243.662 ug/l		93
60) Dibromochloromethane	11.359	129	116451	53.772 ug/l		99
61) 1,2-Dibromoethane	11.471	107	112872	52.979 ug/l		97
64) Tetrachloroethene	11.106	164	85369	50.712 ug/l		96
65) Chlorobenzene	11.888	112	308637	52.609 ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	100286	53.179 ug/l		99
67) Ethyl Benzene	11.965	91	513967	50.862 ug/l		99
68) m/p-Xylenes	12.071	106	404997	104.697 ug/l		99
69) o-Xylene	12.394	106	195732	52.832 ug/l		97
70) Styrene	12.412	104	336415	53.066 ug/l		99
71) Bromoform	12.576	173	77185	55.239 ug/l	#	100
73) Isopropylbenzene	12.694	105	475717	49.691 ug/l		99
74) N-amyl acetate	12.518	43	167180m	49.973 ug/l		
75) 1,1,2,2-Tetrachloroethane	12.935	83	166164	51.233 ug/l		97
76) 1,2,3-Trichloropropane	12.994	75	137668m	44.072 ug/l		
77) Bromobenzene	12.982	156	117013	53.296 ug/l		96
78) n-propylbenzene	13.035	91	557066	47.881 ug/l		98
79) 2-Chlorotoluene	13.124	91	340654	48.823 ug/l		97
80) 1,3,5-Trimethylbenzene	13.171	105	383774	48.554 ug/l		98
81) trans-1,4-Dichloro-2-b...	12.735	75	61410	45.254 ug/l		97
82) 4-Chlorotoluene	13.218	91	351028	49.722 ug/l		98
83) tert-Butylbenzene	13.435	119	327812	45.308 ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	391683	49.418 ug/l		100
85) sec-Butylbenzene	13.612	105	464024	44.163 ug/l		100
86) p-Isopropyltoluene	13.729	119	390433	44.952 ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	221199	51.207 ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	224947	51.077 ug/l		100
89) n-Butylbenzene	14.053	91	338323	40.215 ug/l		99
90) Hexachloroethane	14.329	117	68814	46.741 ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	215082	51.826 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	37100	47.831 ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	116242	43.863 ug/l		99
94) Hexachlorobutadiene	15.494	225	36461	36.928 ug/l		98
95) Naphthalene	15.635	128	474700	48.124 ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	113176	42.984 ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

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

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

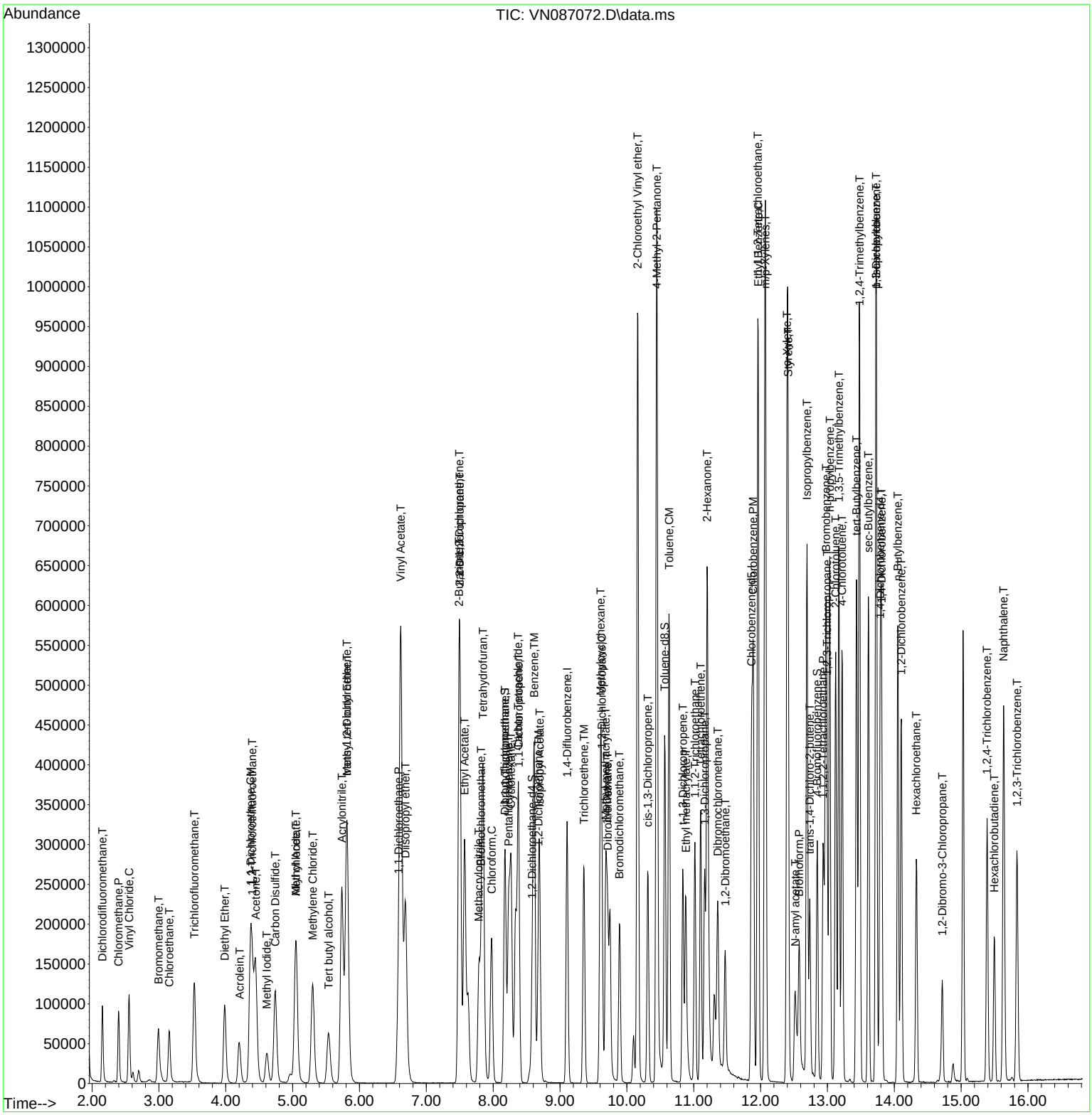
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

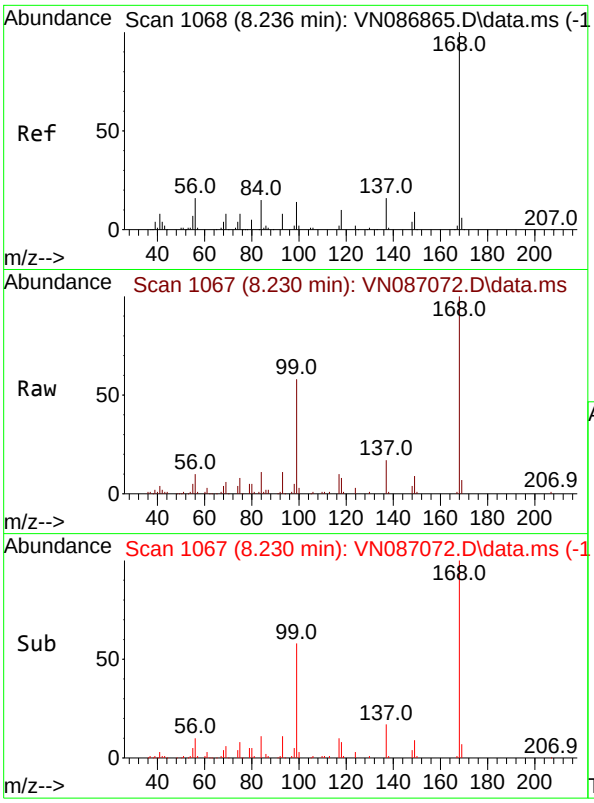
Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

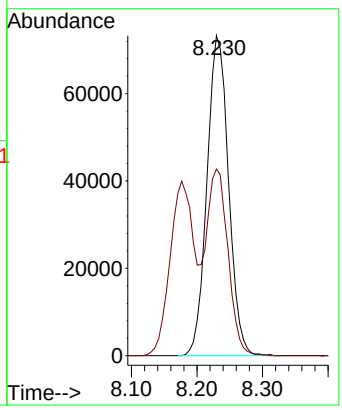




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:168 Resp: 16753

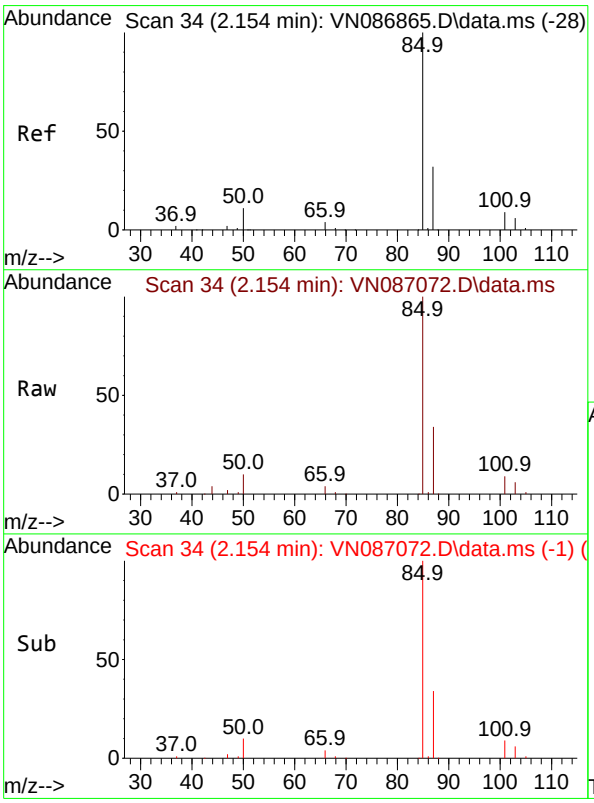
Ion	Ratio	Lower	Upper
168	100		
99	58.3	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

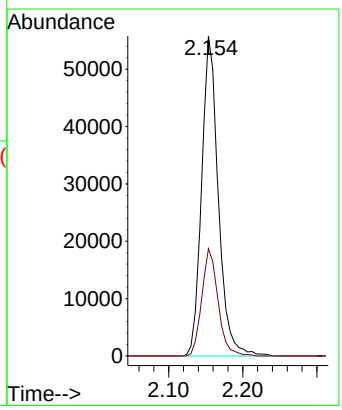
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

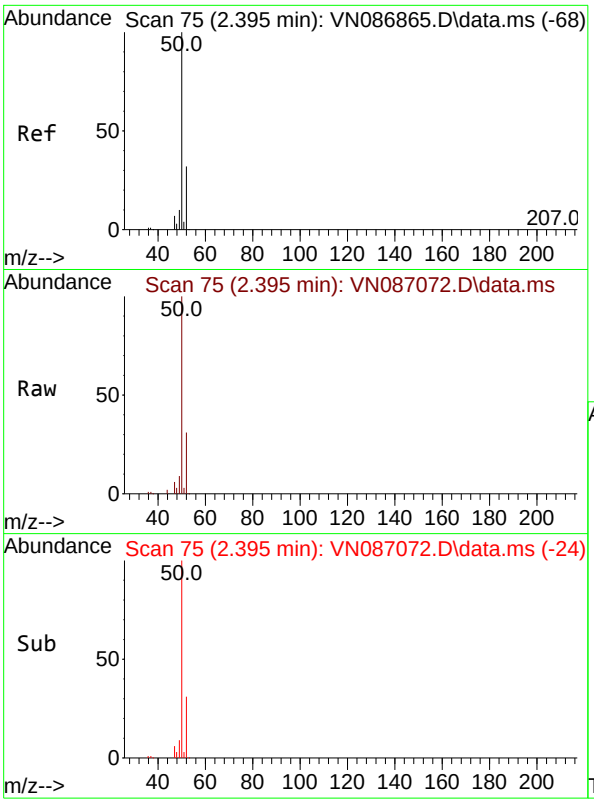


#2
Dichlorodifluoromethane
Concen: 52.318 ug/l
RT: 2.154 min Scan# 34
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 85 Resp: 87392

Ion	Ratio	Lower	Upper
85	100		
87	33.5	16.2	48.6

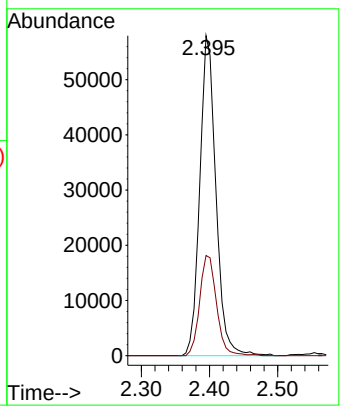




#3
Chloromethane
Concen: 44.264 ug/l
RT: 2.395 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 50 Resp: 9547

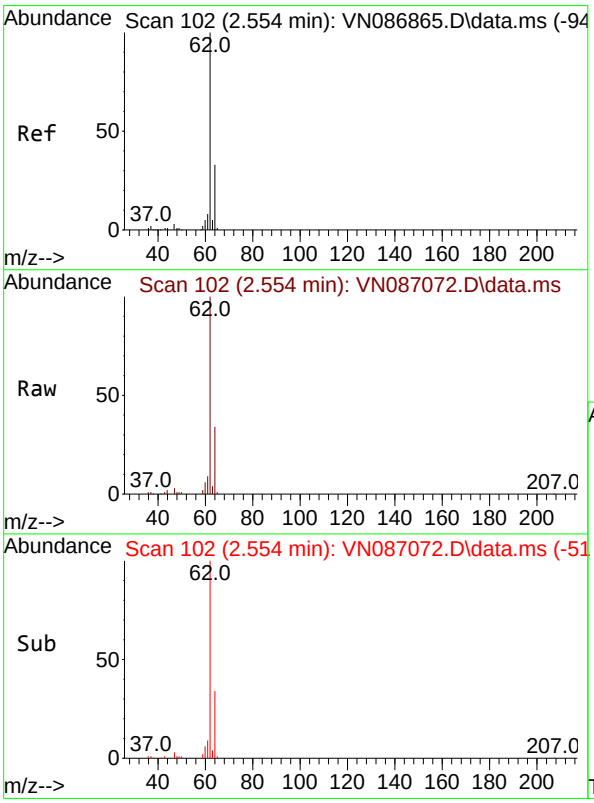
Ion	Ratio	Lower	Upper
50	100		
52	31.3	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

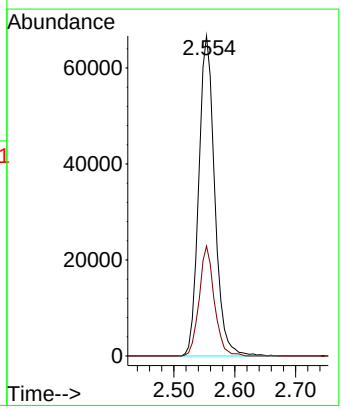
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

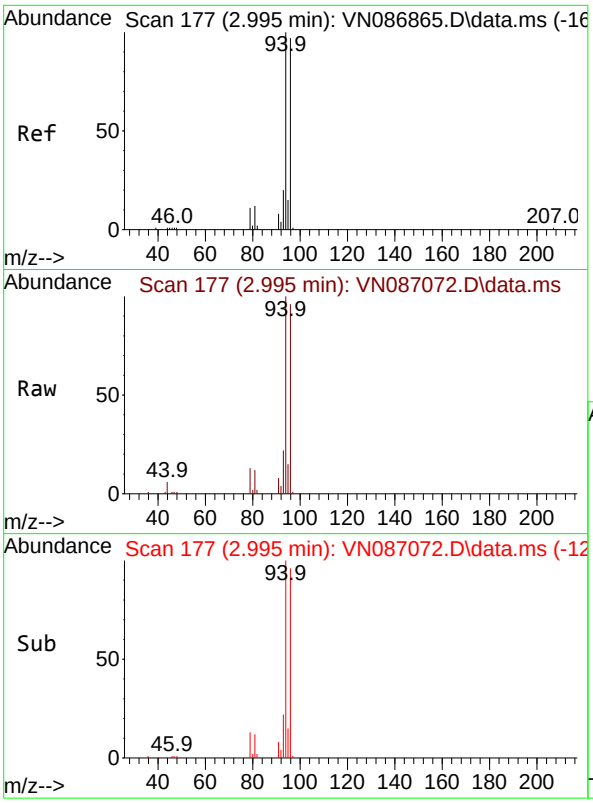


#4
Vinyl Chloride
Concen: 54.544 ug/l
RT: 2.554 min Scan# 102
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 62 Resp: 121364

Ion	Ratio	Lower	Upper
62	100		
64	34.3	26.0	39.0

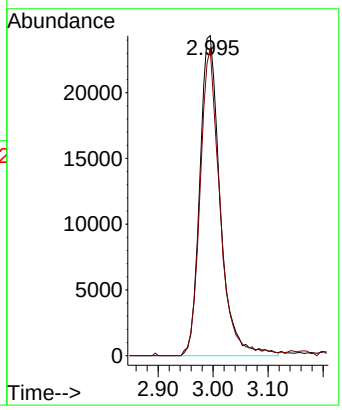




#5
Bromomethane
Concen: 50.045 ug/l
RT: 2.995 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 94 Resp: 6231

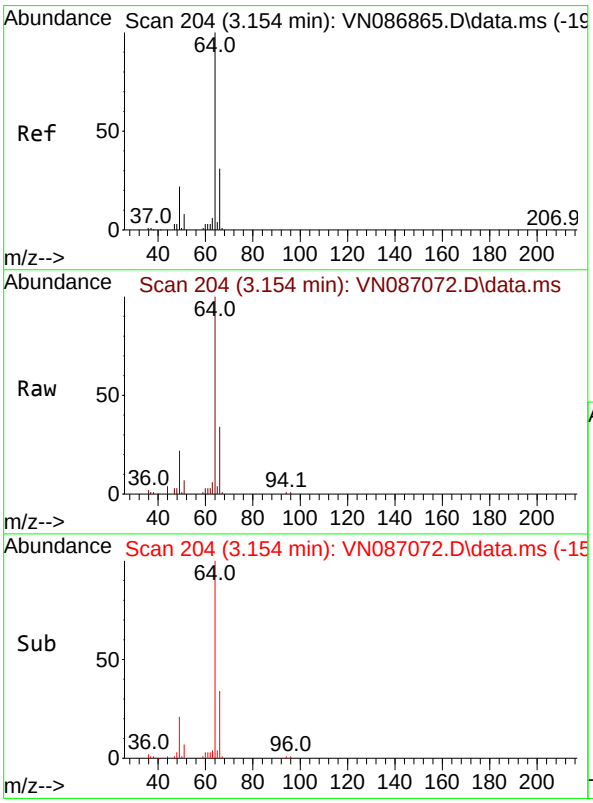
Ion	Ratio	Lower	Upper
94	100		
96	95.9	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

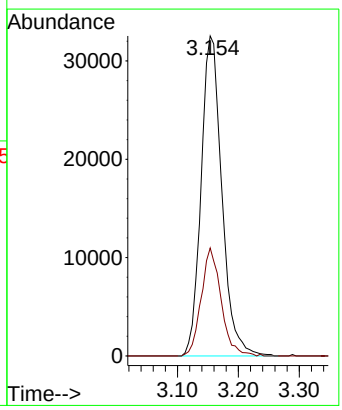
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

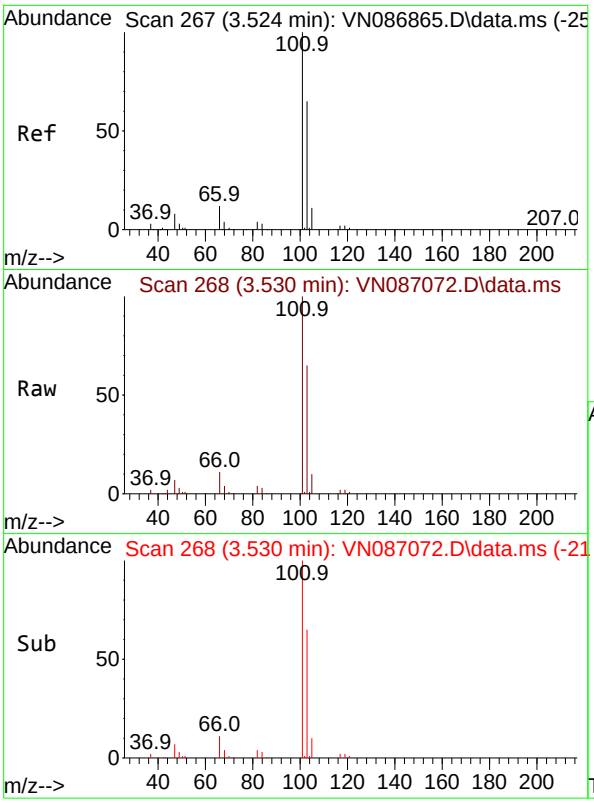


#6
Chloroethane
Concen: 53.756 ug/l
RT: 3.154 min Scan# 204
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 64 Resp: 77262

Ion	Ratio	Lower	Upper
64	100		
66	33.7	24.6	36.8





#7
Trichlorofluoromethane
Concen: 53.374 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

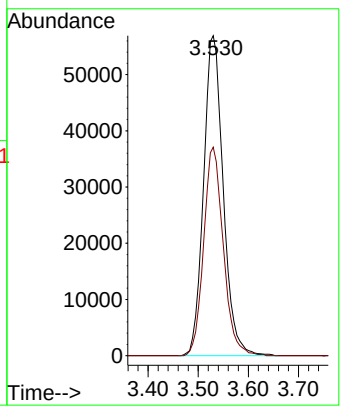
Tgt Ion:101 Resp: 15516

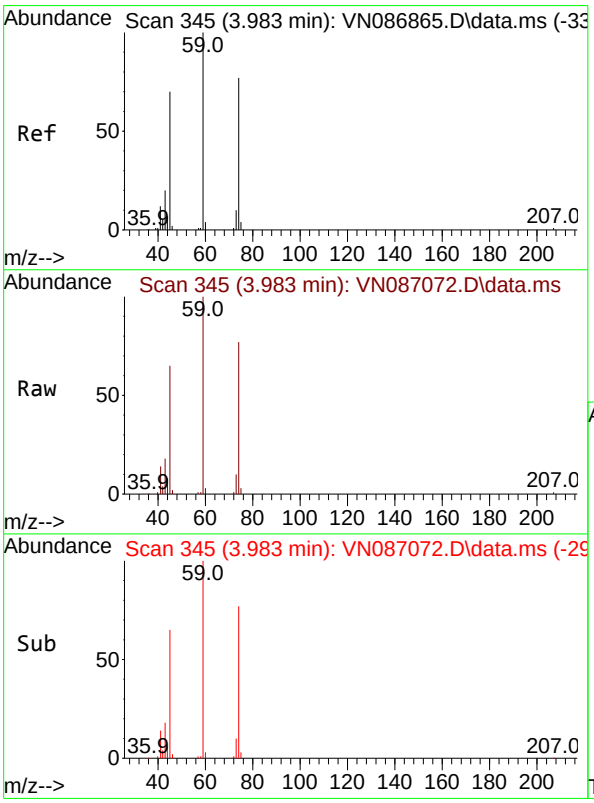
Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.2	78.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

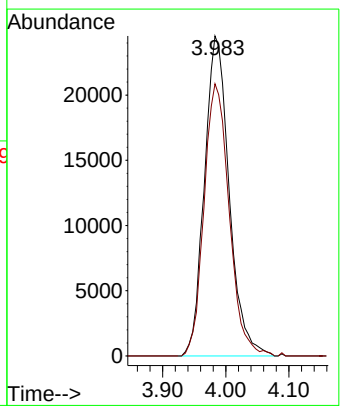


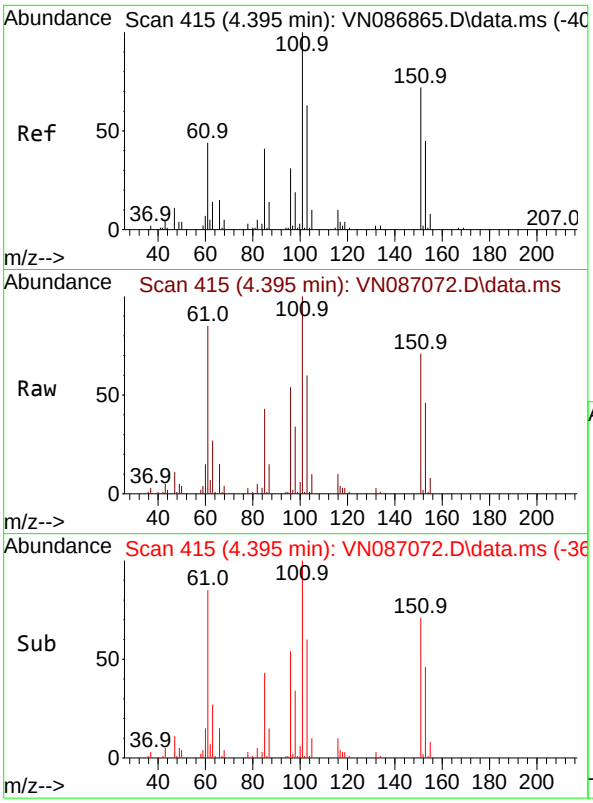


#8
Diethyl Ether
Concen: 52.794 ug/l
RT: 3.983 min Scan# 345
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 74 Resp: 66870

Ion	Ratio	Lower	Upper
74	100		
45	86.4	45.5	136.5

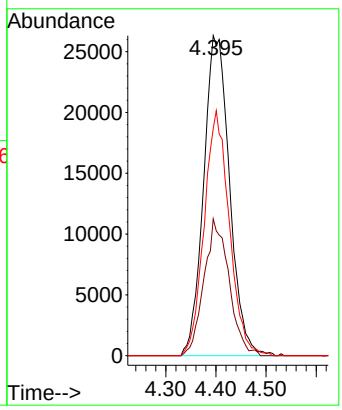




#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.804 ug/l
RT: 4.395 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:101 Resp: 9461

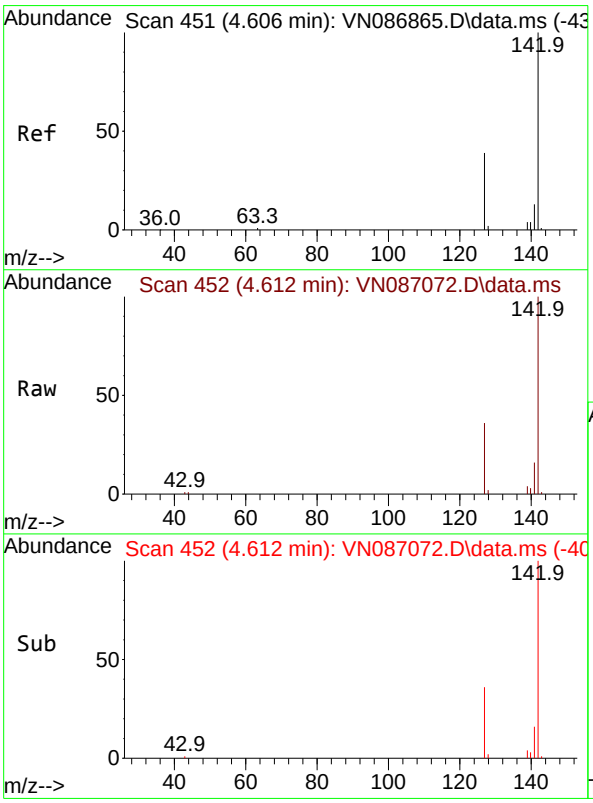
Ion	Ratio	Lower	Upper
101	100		
85	41.1	33.8	50.8
151	74.2	58.7	88.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

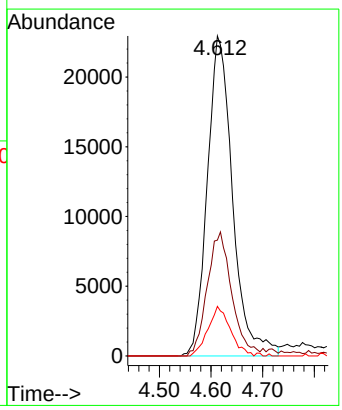
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

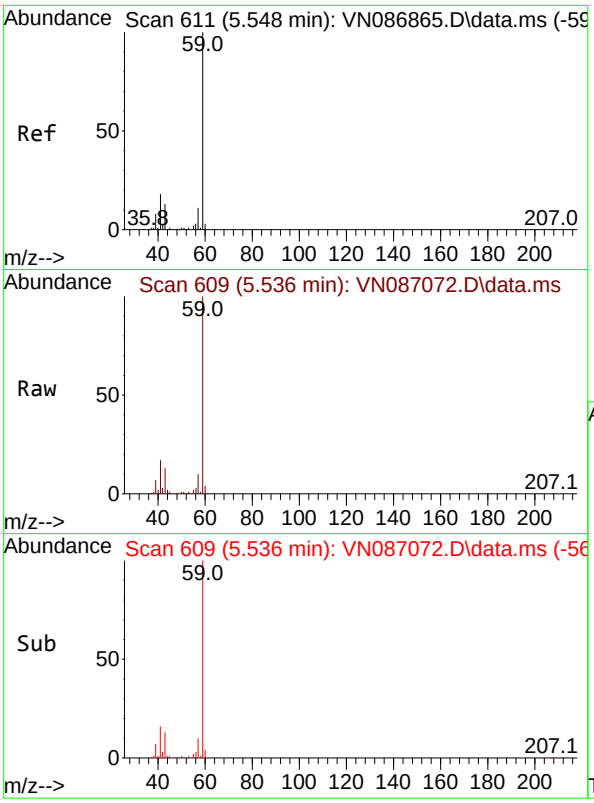


#10
Methyl Iodide
Concen: 32.907 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:142 Resp: 77912

Ion	Ratio	Lower	Upper
142	100		
127	36.2	30.9	46.3
141	15.5	10.4	15.6

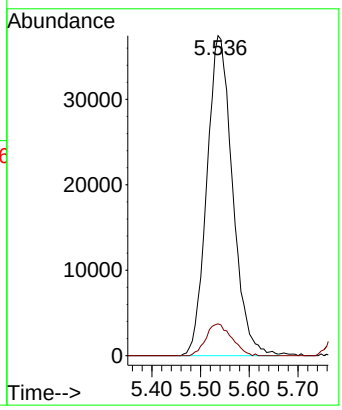




#11
Tert butyl alcohol
Concen: 225.470 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 59 Resp: 13722

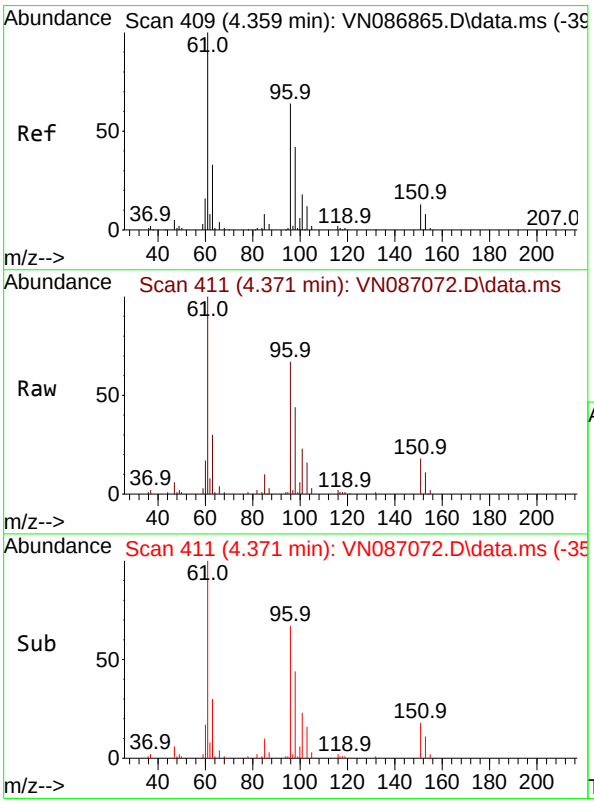
Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

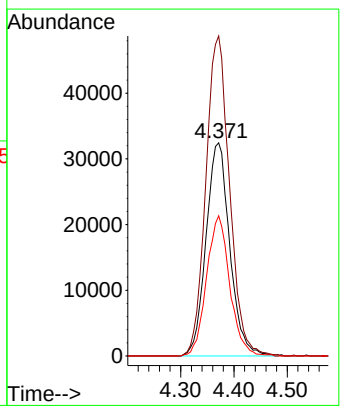
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

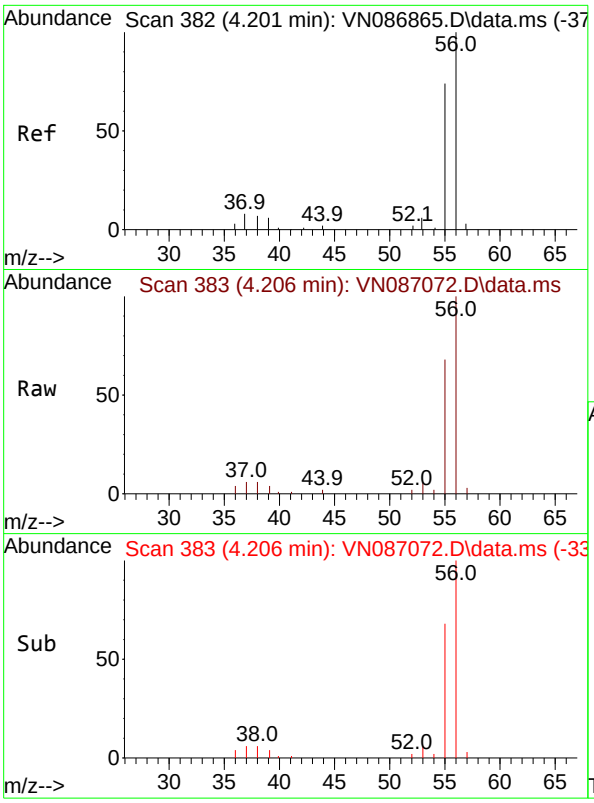


#12
1,1-Dichloroethene
Concen: 53.841 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 96 Resp: 100395

Ion	Ratio	Lower	Upper
96	100		
61	150.2	125.8	188.6
98	65.8	52.5	78.7





#13
Acrolein
Concen: 394.185 ug/l
RT: 4.206 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

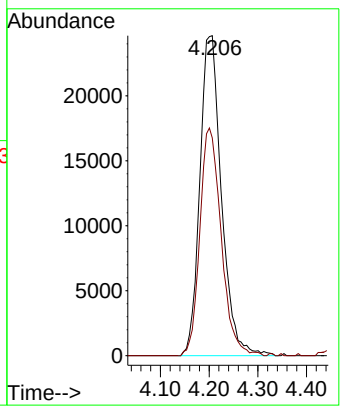
Tgt Ion: 56 Resp: 7594

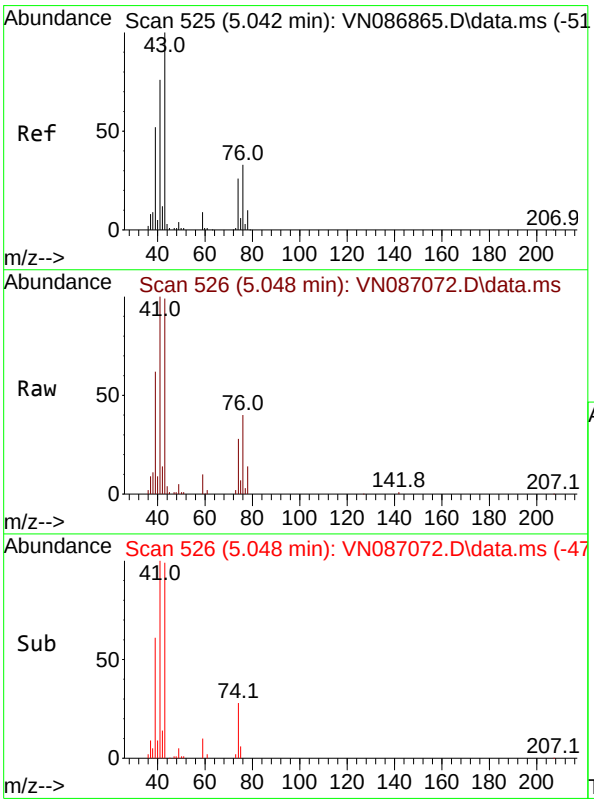
Ion	Ratio	Lower	Upper
56	100		
55	70.2	55.6	83.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

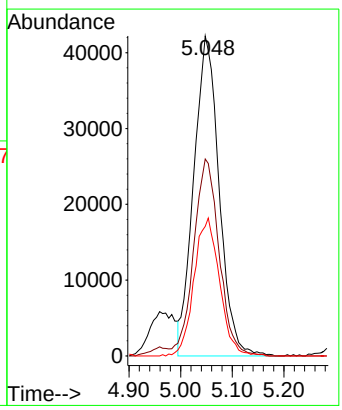


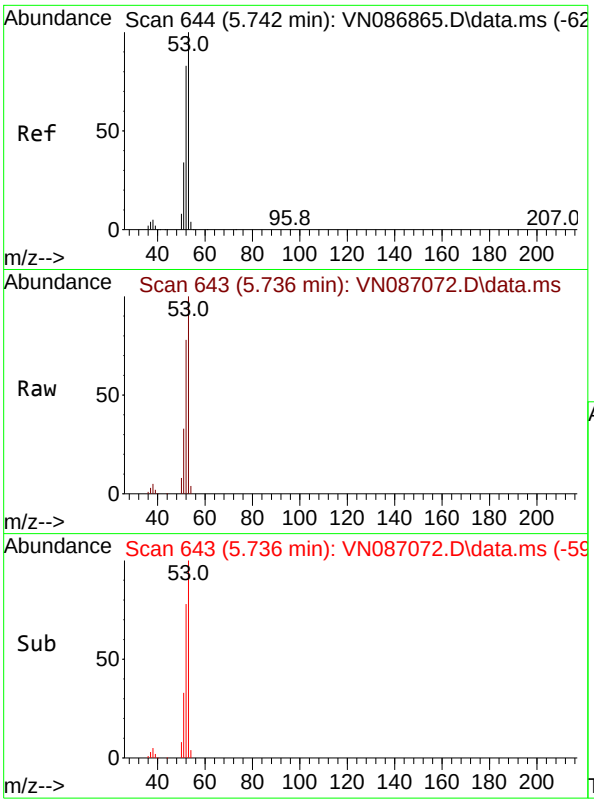


#14
Allyl chloride
Concen: 46.587 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 41 Resp: 144068

Ion	Ratio	Lower	Upper
41	100		
39	62.0	51.3	76.9
76	43.4	31.4	47.0





#15
Acrylonitrile
Concen: 242.901 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

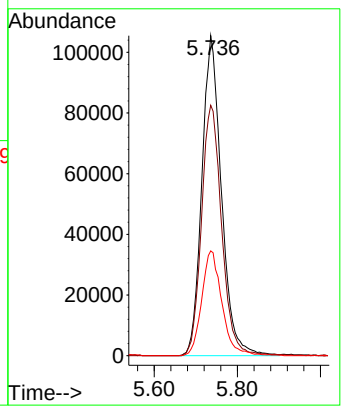
Tgt Ion: 53 Resp: 34554

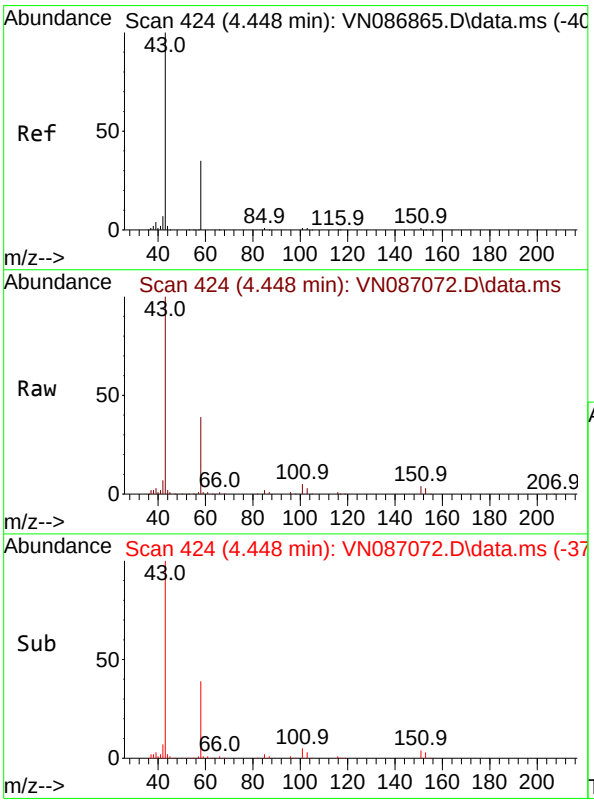
Ion	Ratio	Lower	Upper
53	100		
52	80.5	65.0	97.6
51	33.8	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

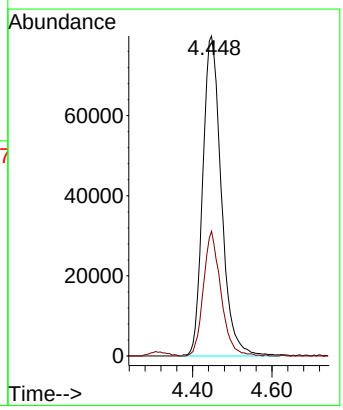


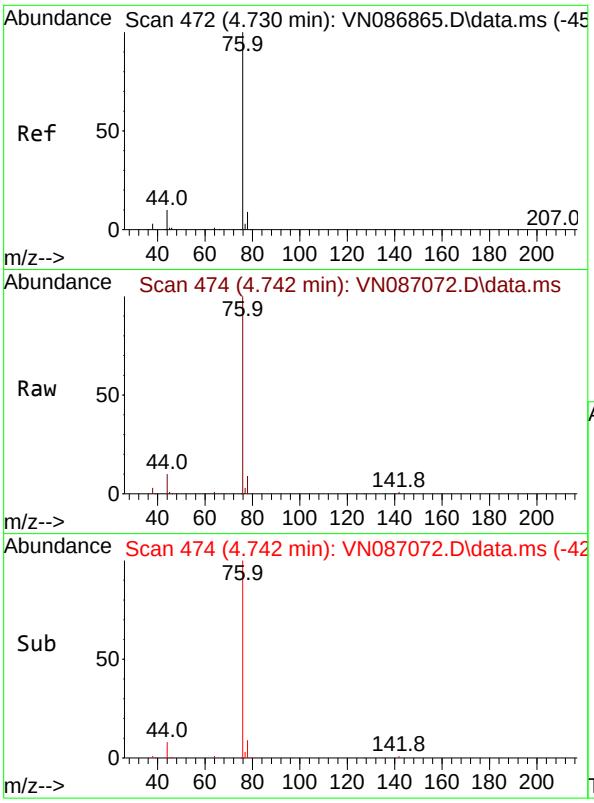


#16
Acetone
Concen: 218.104 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 43 Resp: 259437

Ion	Ratio	Lower	Upper
43	100		
58	39.0	28.0	42.0

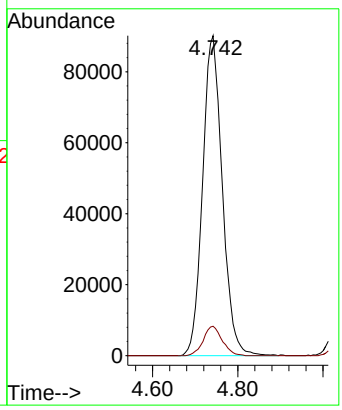




#17
Carbon Disulfide
Concen: 56.169 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 76 Resp: 28971

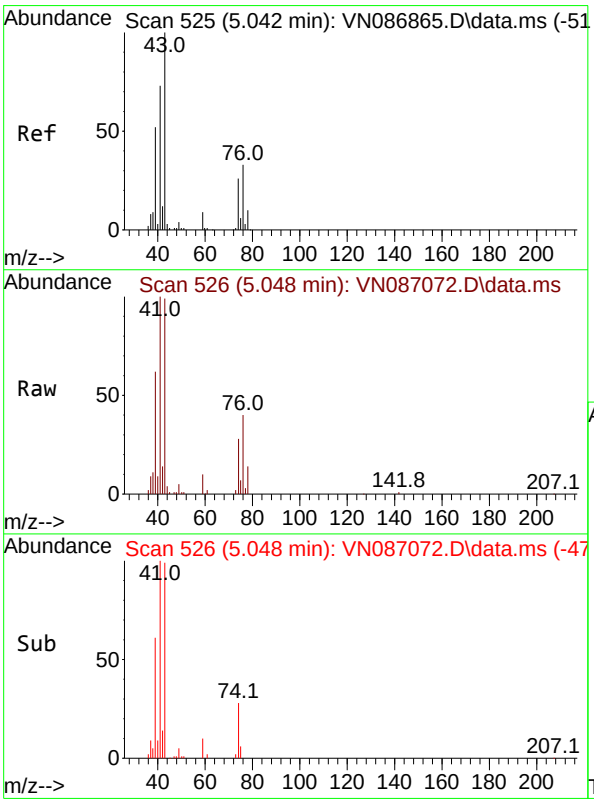
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

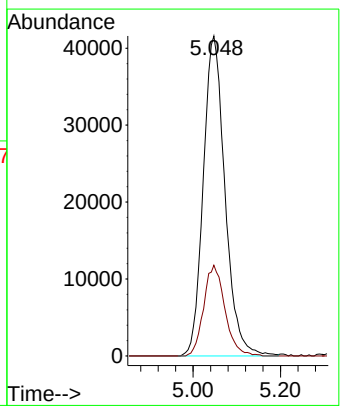
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

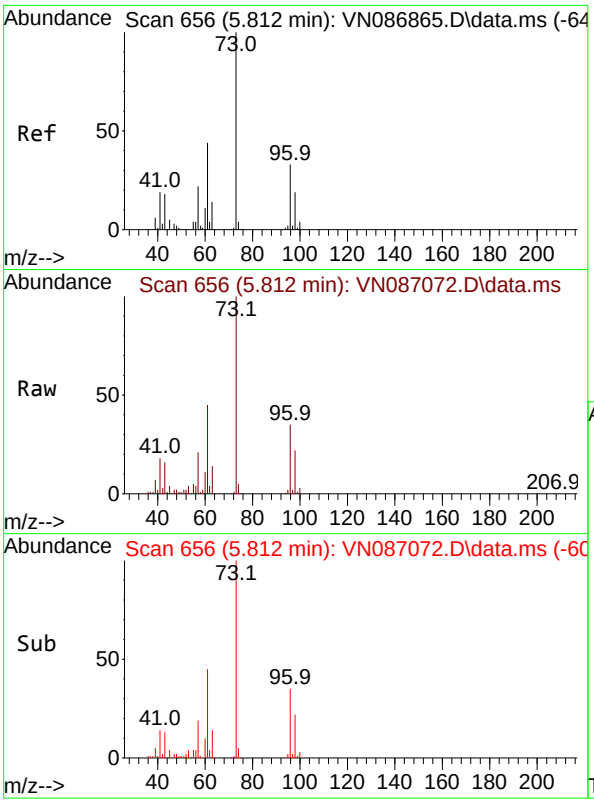


#18
Methyl Acetate
Concen: 41.442 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 43 Resp: 143655

Ion	Ratio	Lower	Upper
43	100		
74	27.7	20.7	31.1

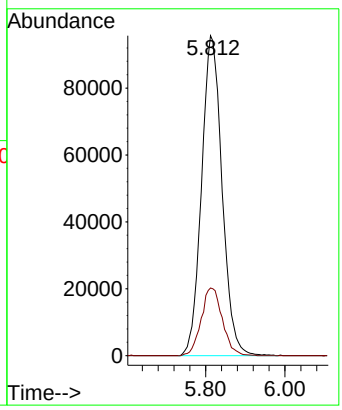




#19
Methyl tert-butyl Ether
Concen: 50.844 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 73 Resp: 34327

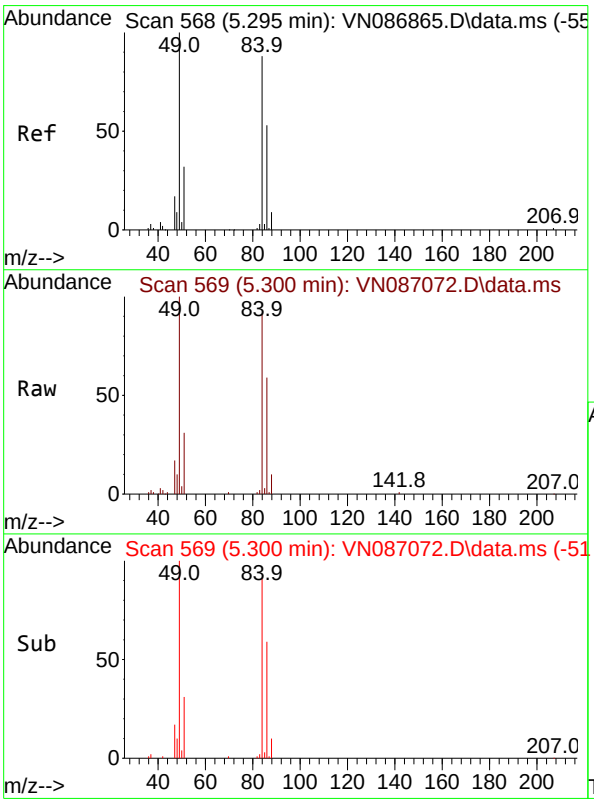
Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

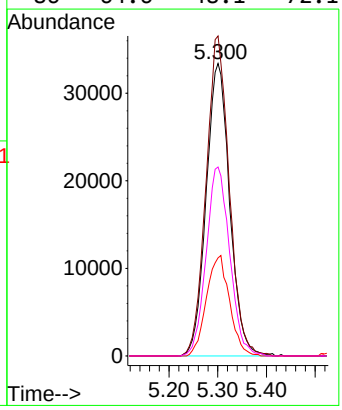
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

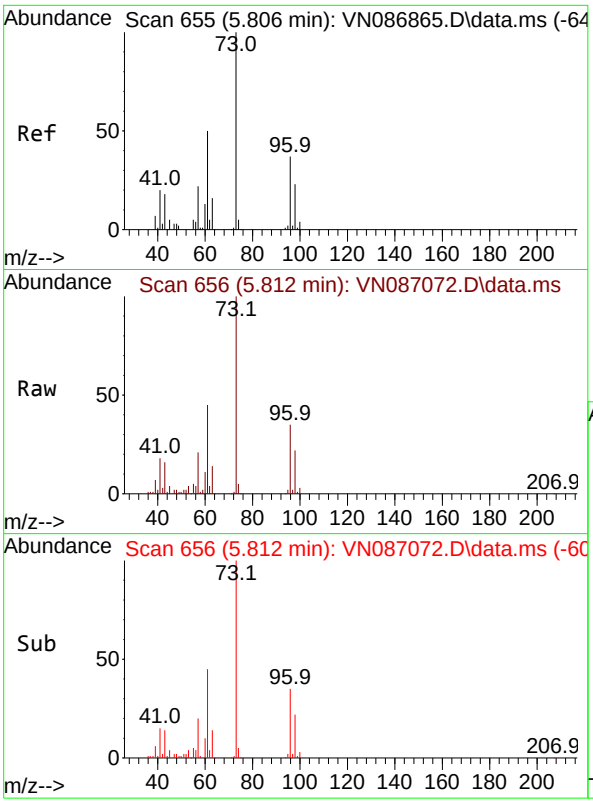


#20
Methylene Chloride
Concen: 50.236 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 84 Resp: 111875

Ion	Ratio	Lower	Upper
84	100		
49	109.4	90.5	135.7
51	33.5	28.5	42.7
86	64.6	48.1	72.1

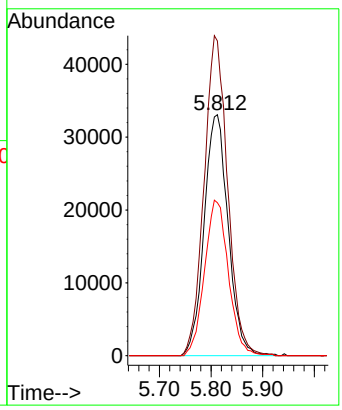




#21
trans-1,2-Dichloroethene
Concen: 51.471 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 96 Resp: 10678

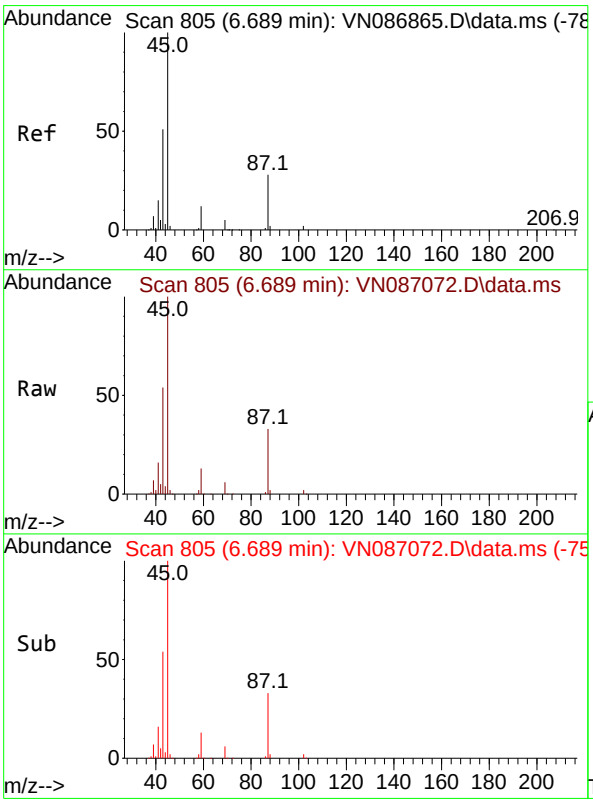
Ion	Ratio	Lower	Upper
96	100		
61	130.6	109.2	163.8
98	63.5	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

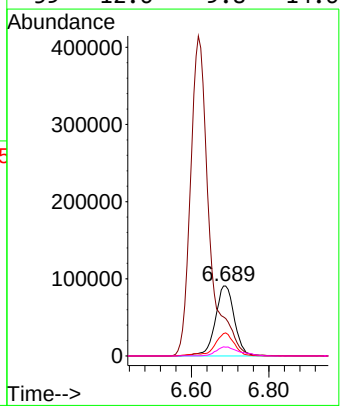
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

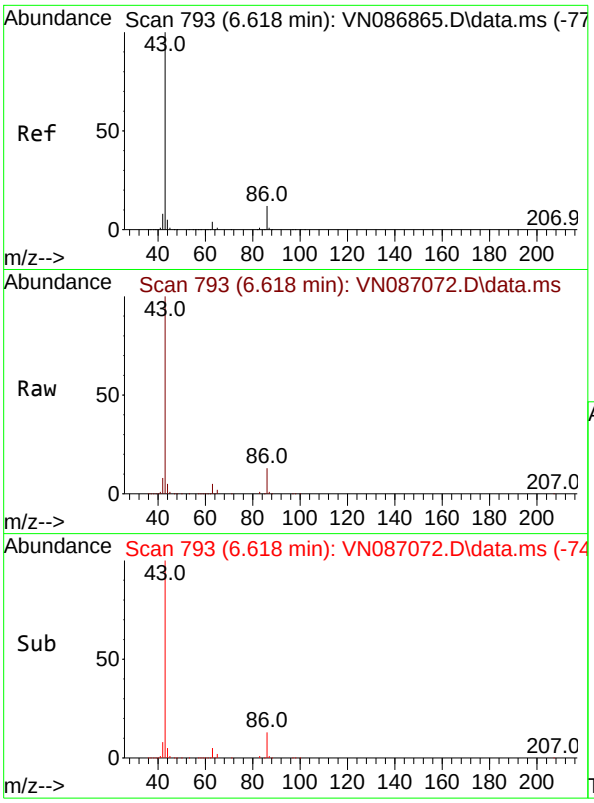


#22
Diisopropyl ether
Concen: 47.606 ug/l
RT: 6.689 min Scan# 805
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 45 Resp: 310324

Ion	Ratio	Lower	Upper
45	100		
43	52.9	41.9	62.9
87	32.9	22.4	33.6
59	12.6	9.8	14.6

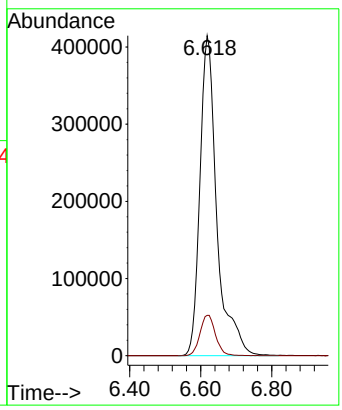




#23
Vinyl Acetate
Concen: 250.103 ug/l
RT: 6.618 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 43 Resp: 137744

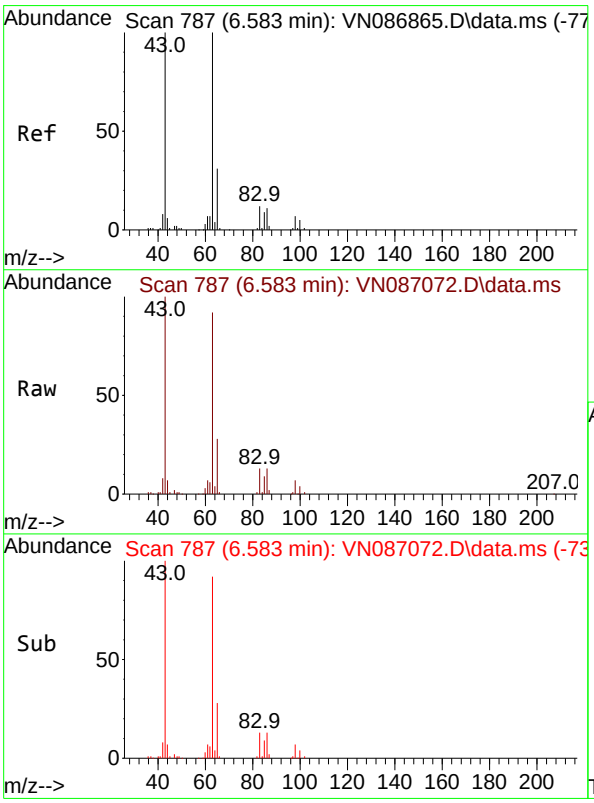
Ion	Ratio	Lower	Upper
43	100		
86	12.6	9.5	14.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

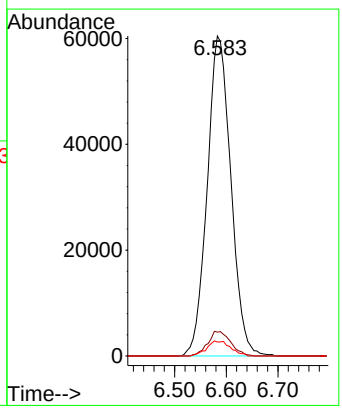
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

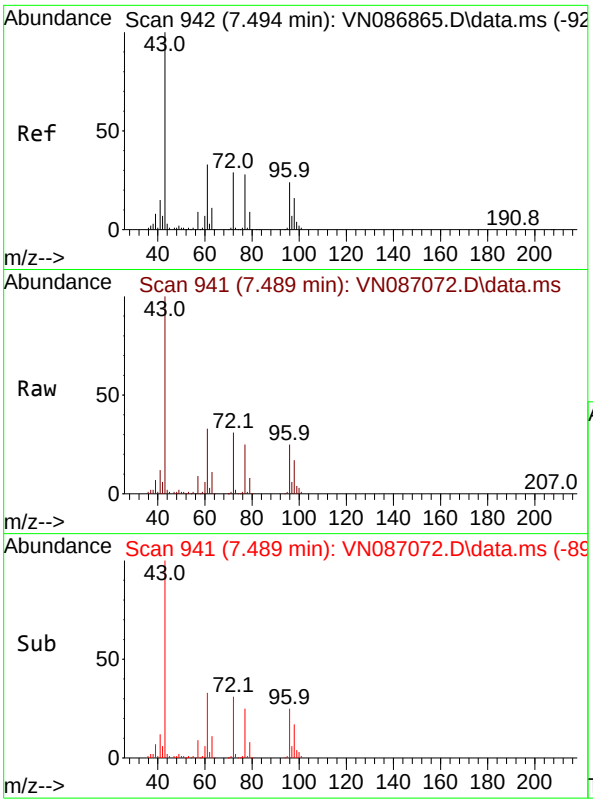


#24
1,1-Dichloroethane
Concen: 51.366 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 63 Resp: 192690

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	4.4	2.6	7.8





#25
2-Butanone
Concen: 223.445 ug/l
RT: 7.489 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

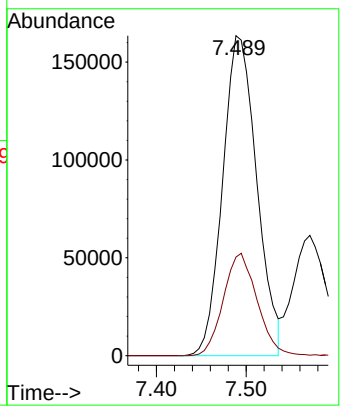
Tgt Ion: 43 Resp: 43203

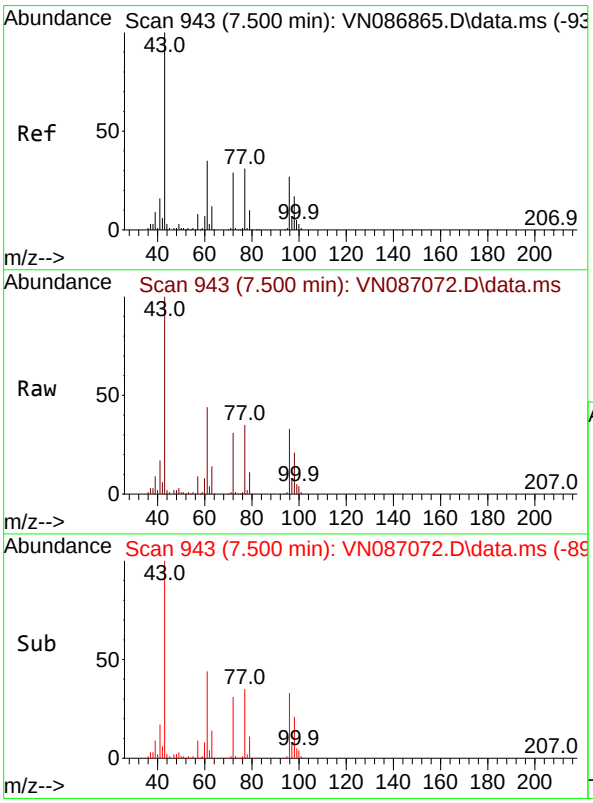
Ion	Ratio	Lower	Upper
43	100		
72	30.8	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

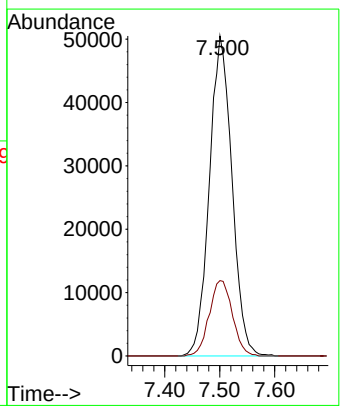


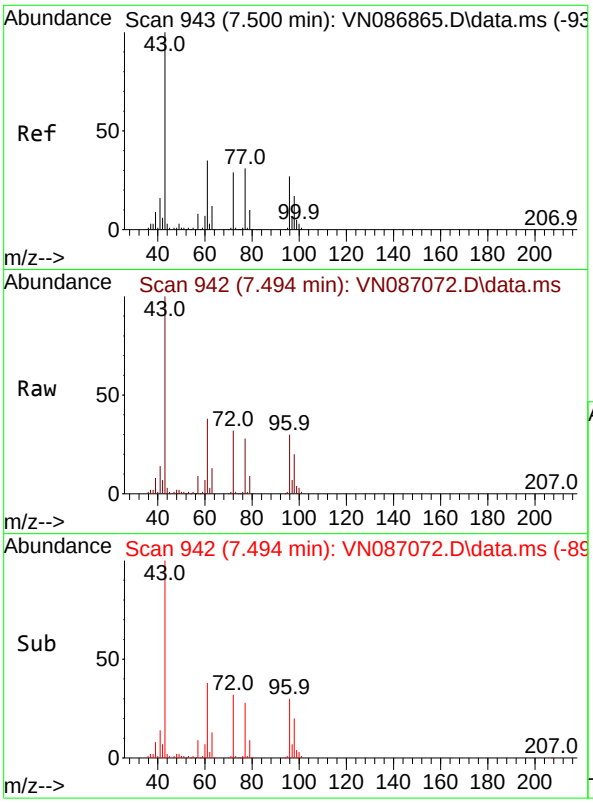


#26
2,2-Dichloropropane
Concen: 49.359 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 77 Resp: 144032

Ion	Ratio	Lower	Upper
77	100		
97	24.2	11.6	34.7





#27
cis-1,2-Dichloroethene
Concen: 52.279 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

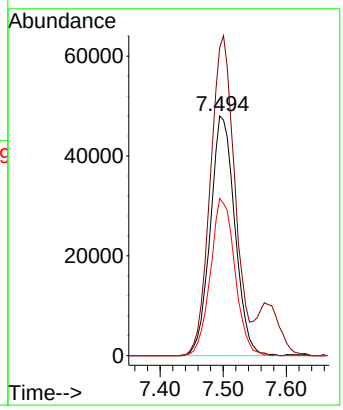
Tgt Ion: 96 Resp: 12971

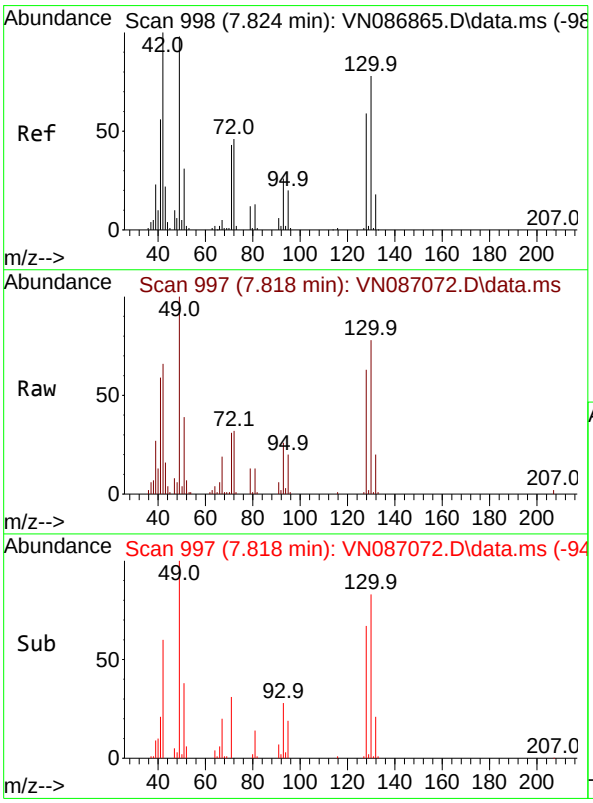
Ion	Ratio	Lower	Upper
96	100		
61	133.7	0.0	278.0
98	65.2	0.0	128.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

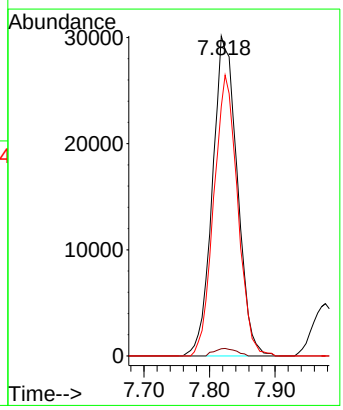


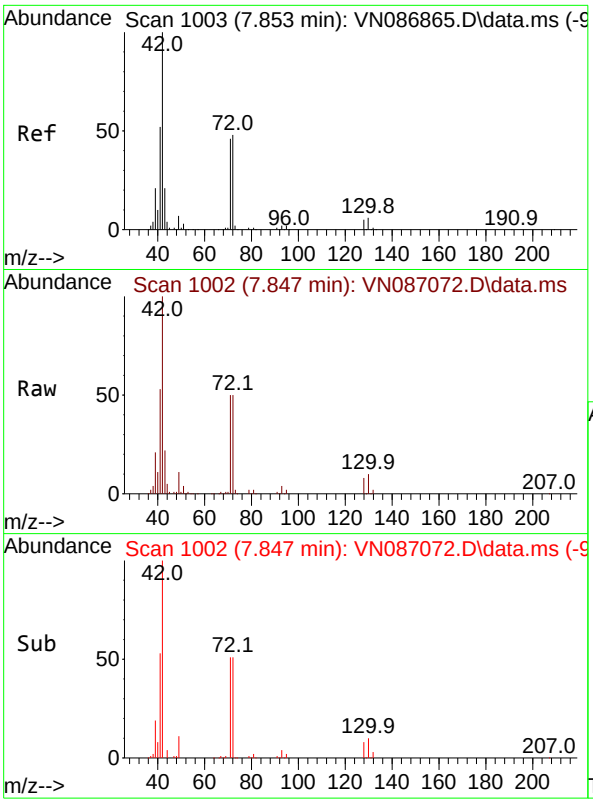


#28
Bromochloromethane
Concen: 42.878 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 49 Resp: 79087

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	3.8
130	84.3	62.2	93.2

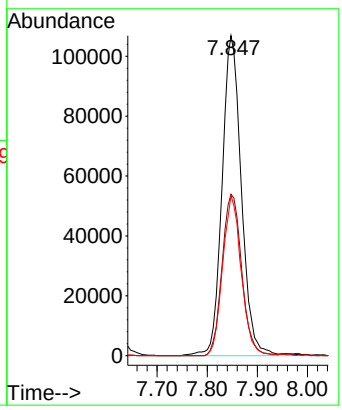




#29
Tetrahydrofuran
Concen: 226.717 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 42 Resp: 28556

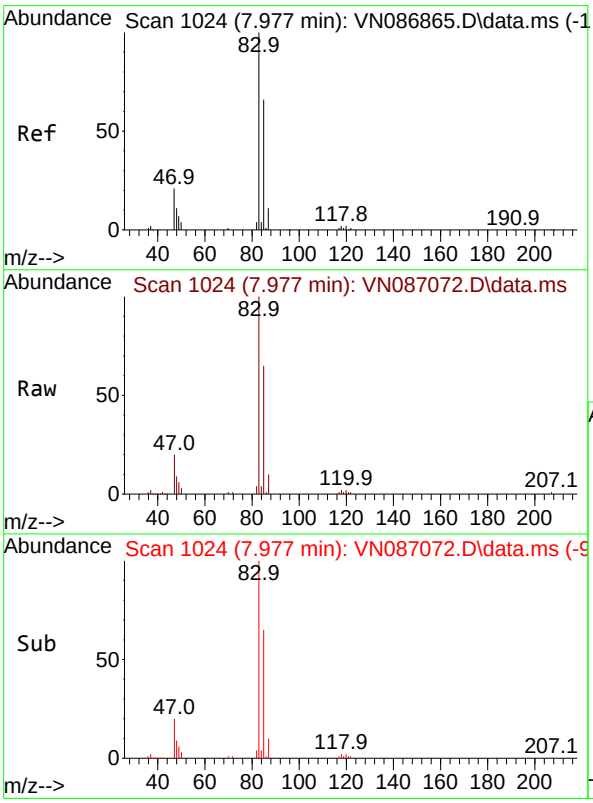
Ion	Ratio	Lower	Upper
42	100		
72	51.4	37.8	56.6
71	48.5	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

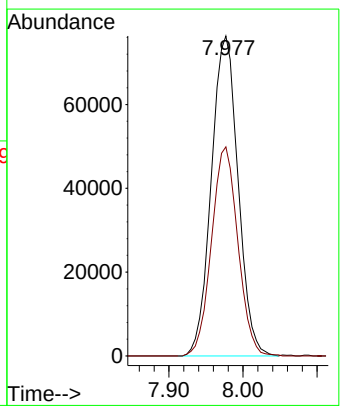
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

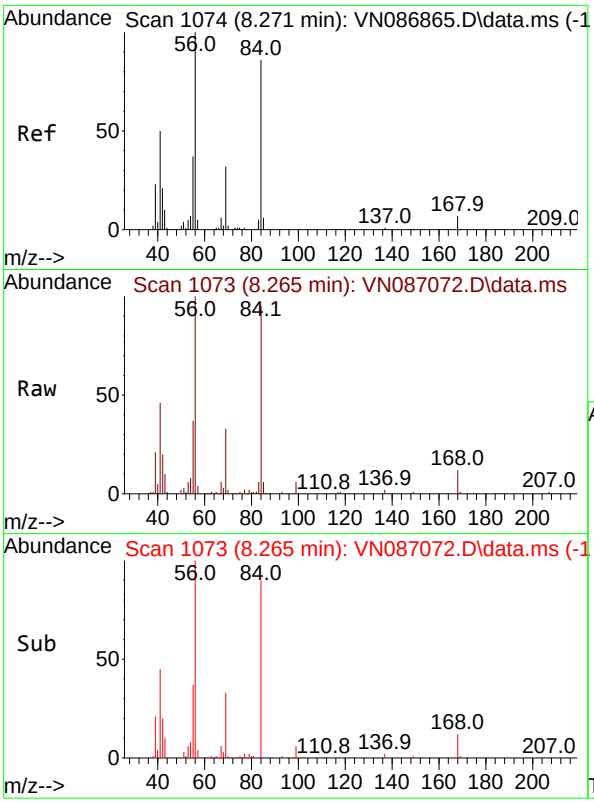


#30
Chloroform
Concen: 51.071 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 83 Resp: 191328

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.9	79.3

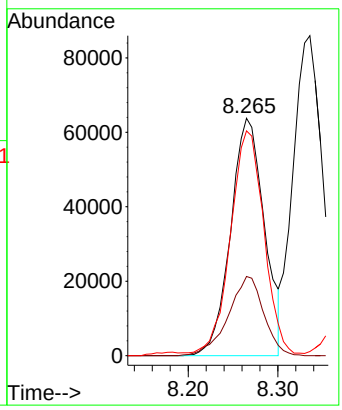




#31
Cyclohexane
Concen: 45.871 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 56 Resp: 16688

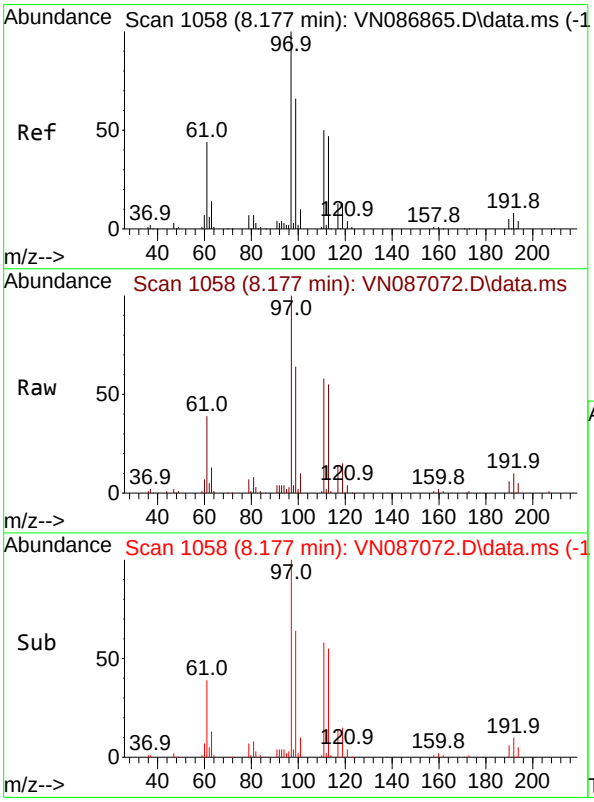
Ion	Ratio	Lower	Upper
56	100		
69	33.1	25.4	38.0
84	93.6	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

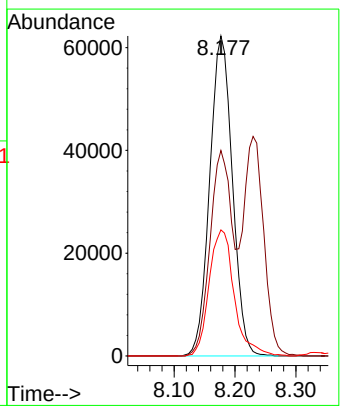
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

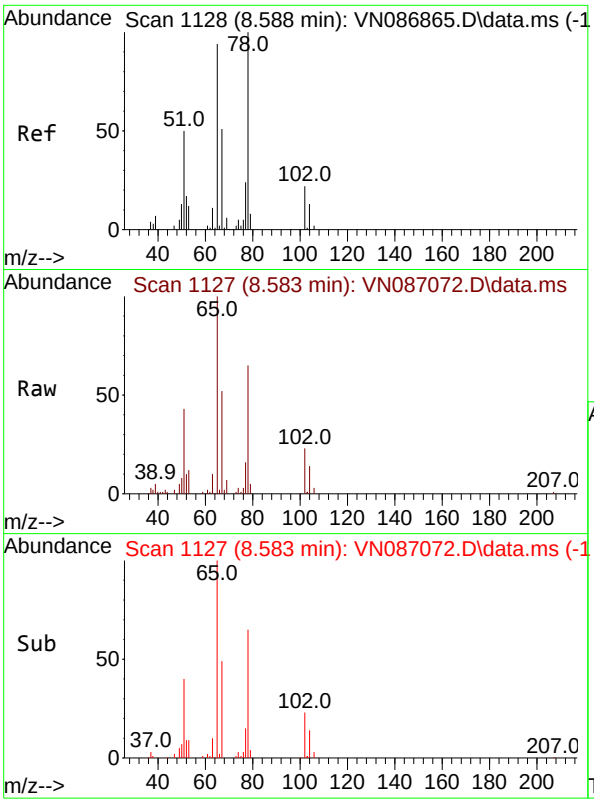


#32
1,1,1-Trichloroethane
Concen: 50.523 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 97 Resp: 160982

Ion	Ratio	Lower	Upper
97	100		
99	61.2	52.0	78.0
61	43.6	35.9	53.9

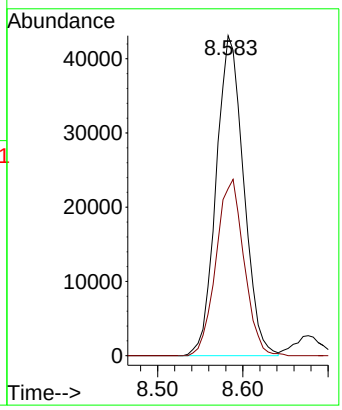




#33
1,2-Dichloroethane-d4
Concen: 43.049 ug/l
RT: 8.583 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 65 Resp: 9656

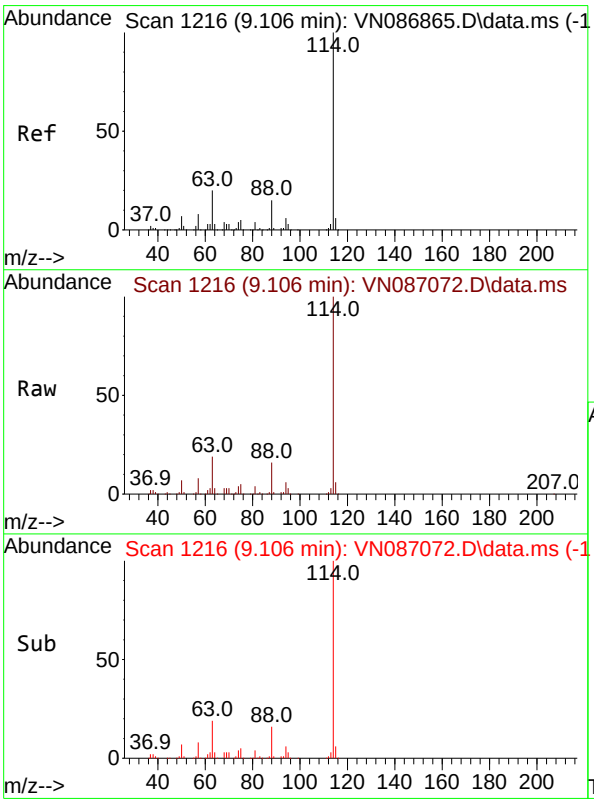
Ion	Ratio	Lower	Upper
65	100		
67	56.1	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

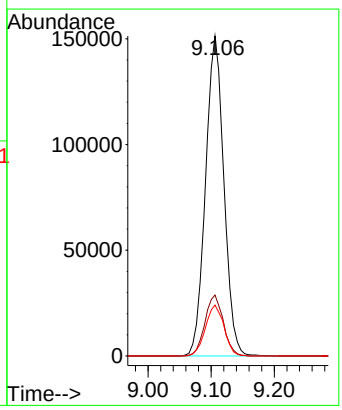
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

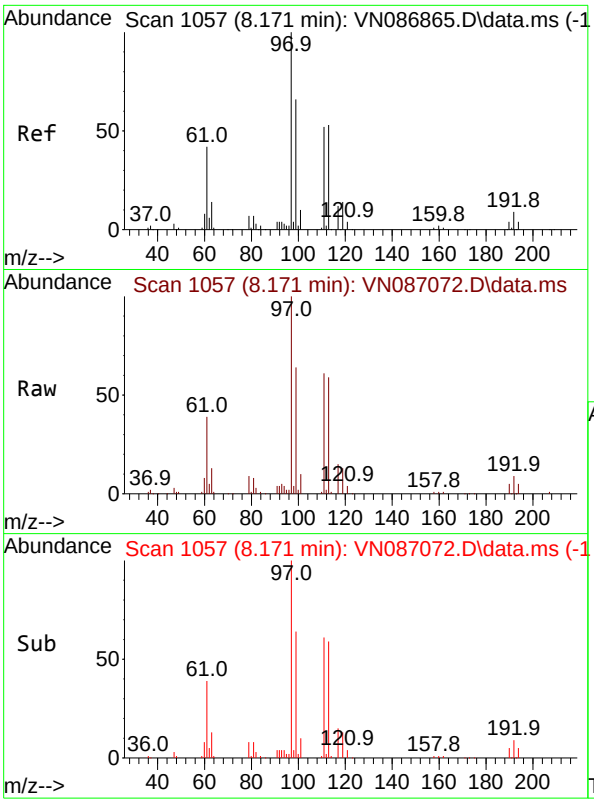


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:114 Resp: 306106

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	39.6
88	15.9	0.0	30.2

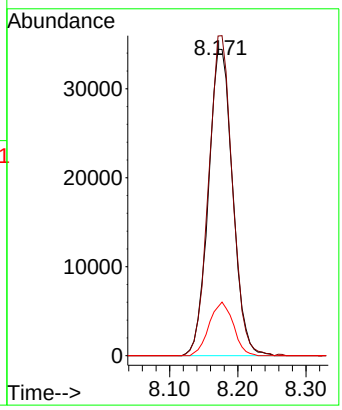




#35
Dibromofluoromethane
Concen: 47.004 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:113 Resp: 8526

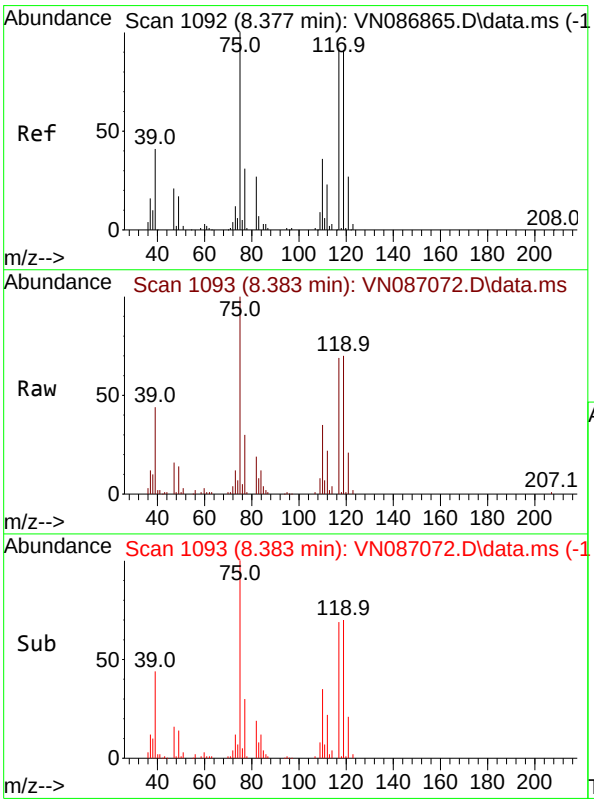
Ion	Ratio	Lower	Upper
113	100		
111	102.1	84.2	126.2
192	17.4	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

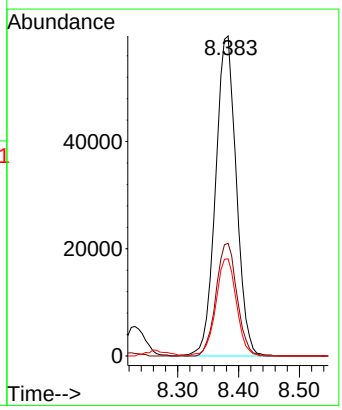
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

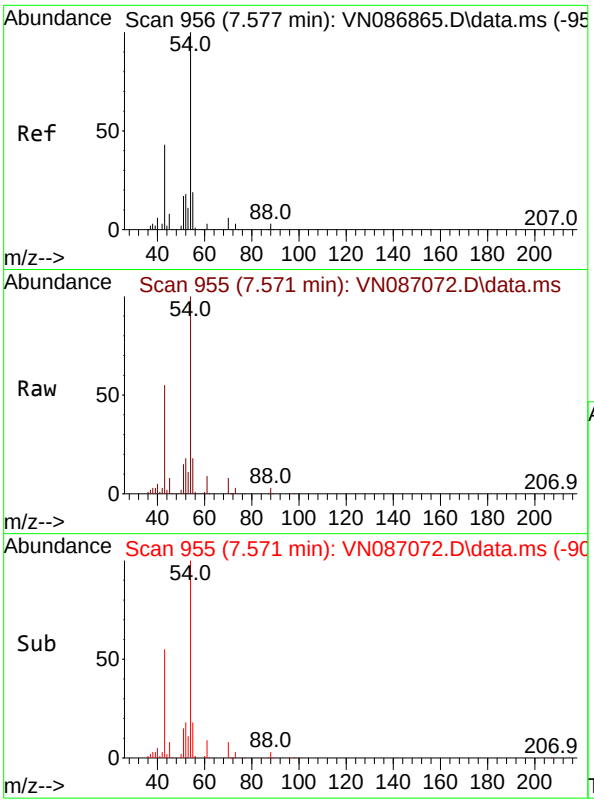


#36
1,1-Dichloropropene
Concen: 52.347 ug/l
RT: 8.383 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 75 Resp: 141500

Ion	Ratio	Lower	Upper
75	100		
110	35.5	17.6	52.9
77	30.2	25.3	37.9





#37
Ethyl Acetate
Concen: 48.087 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

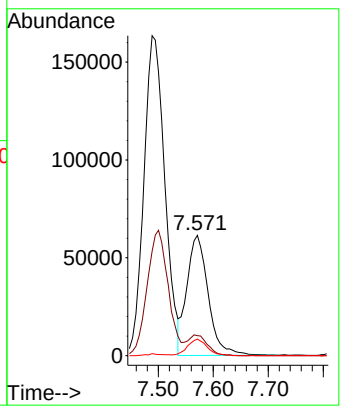
Tgt Ion: 43 Resp: 16547

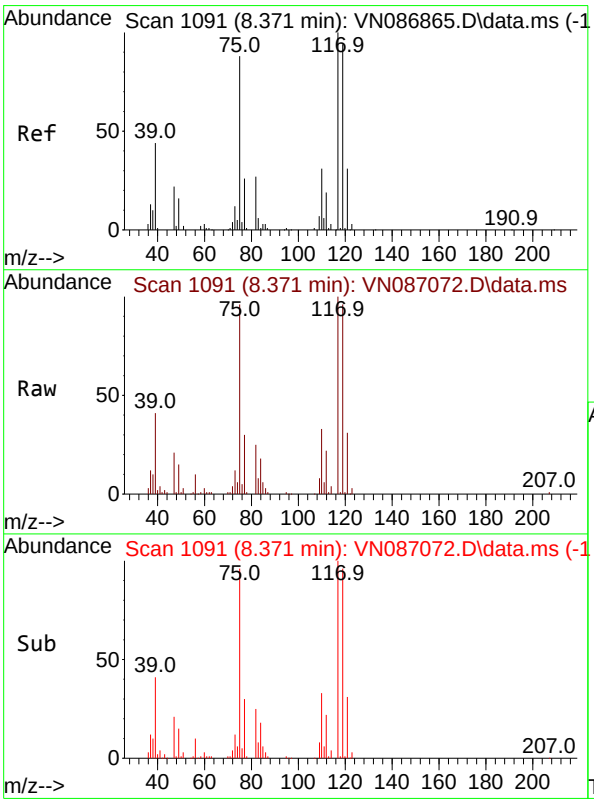
Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.1	18.1
70	12.8	9.8	14.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

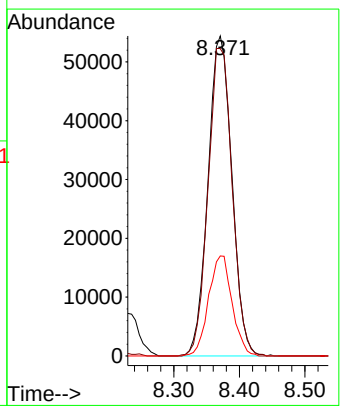


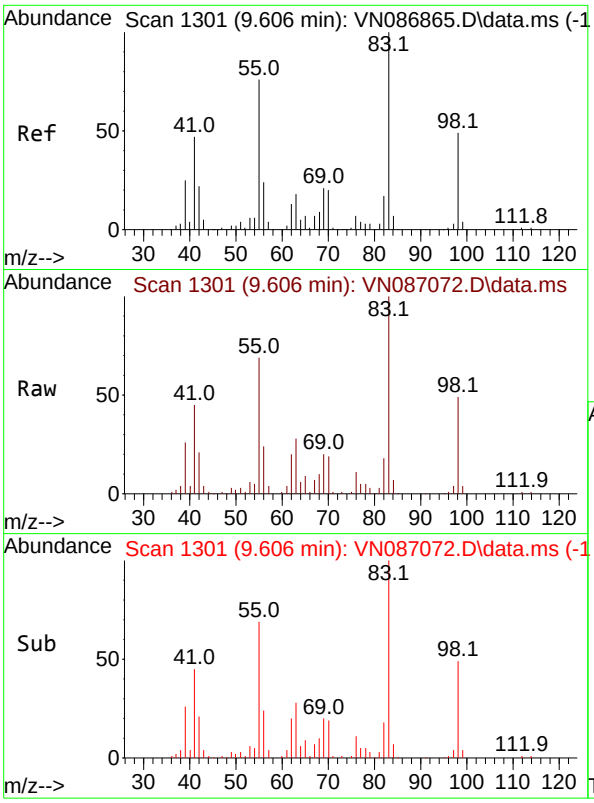


#38
Carbon Tetrachloride
Concen: 51.827 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:117 Resp: 137539

Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.0	112.6
121	31.2	24.9	37.3

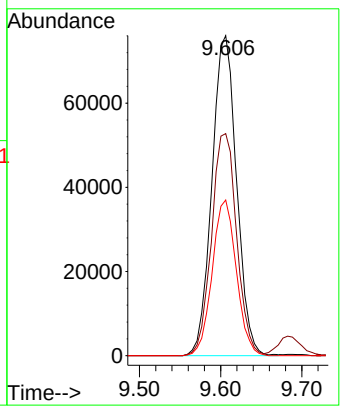




#39
Methylcyclohexane
Concen: 43.354 ug/l
RT: 9.606 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 83 Resp: 16055

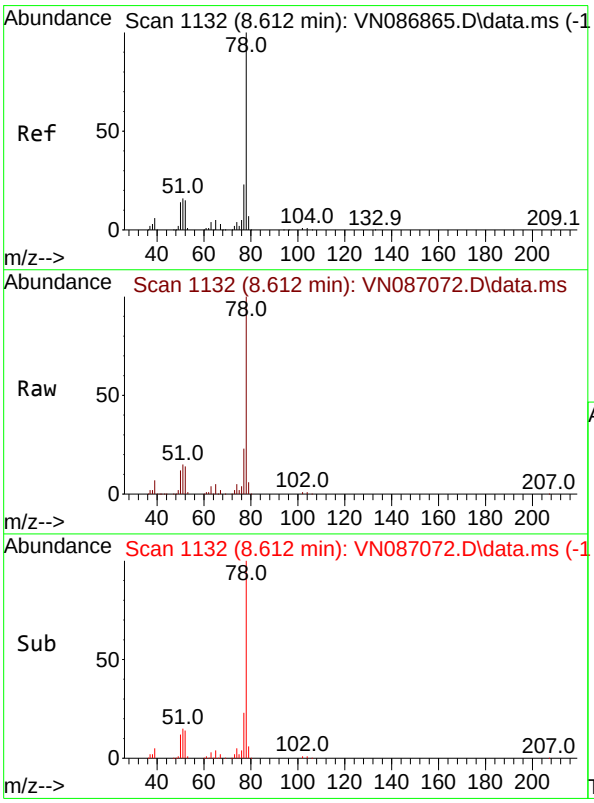
Ion	Ratio	Lower	Upper
83	100		
55	69.4	61.0	91.6
98	48.6	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

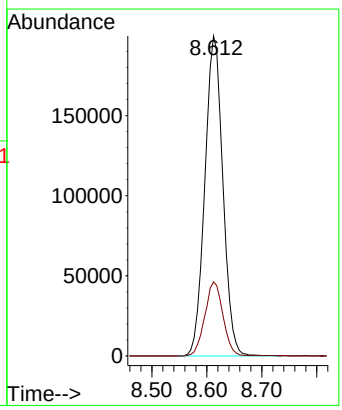
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

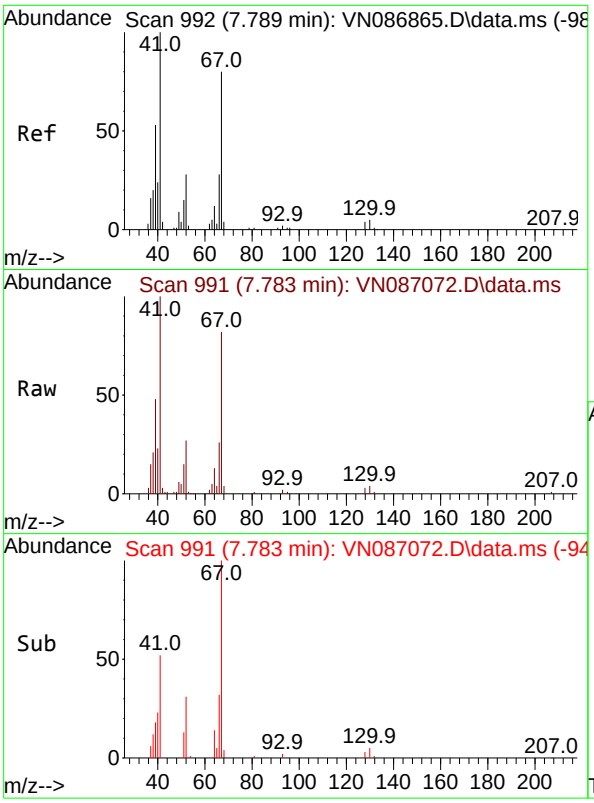


#40
Benzene
Concen: 51.459 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 78 Resp: 454862

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.7	28.1

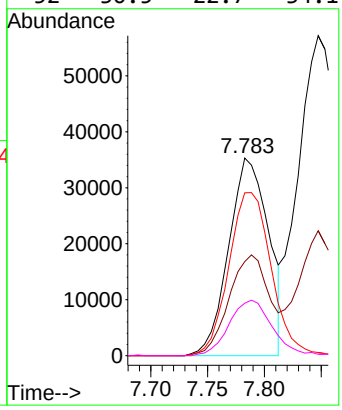




#41
Methacrylonitrile
Concen: 44.676 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 41 Resp: 8633

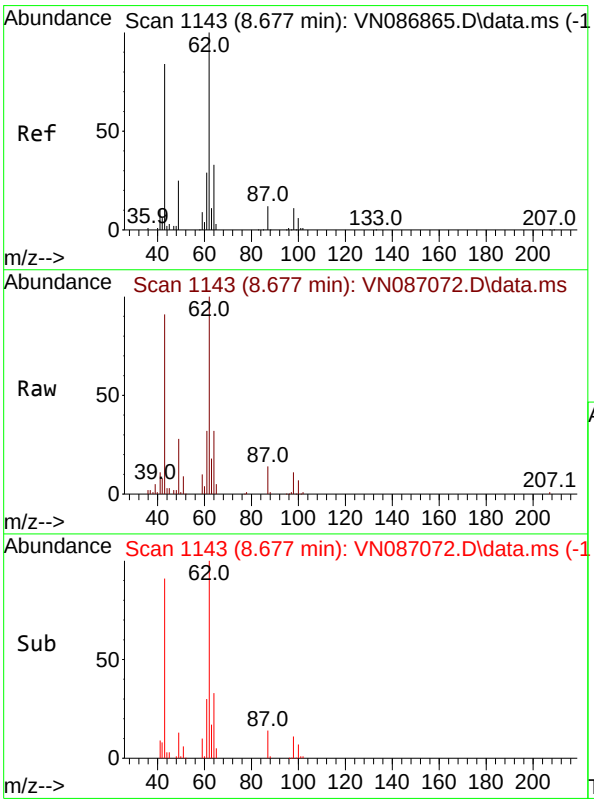
Ion	Ratio	Lower	Upper
41	100		
39	51.1	41.2	61.8
67	88.1	61.4	92.2
52	30.5	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

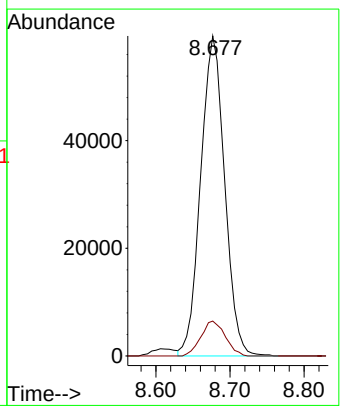
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

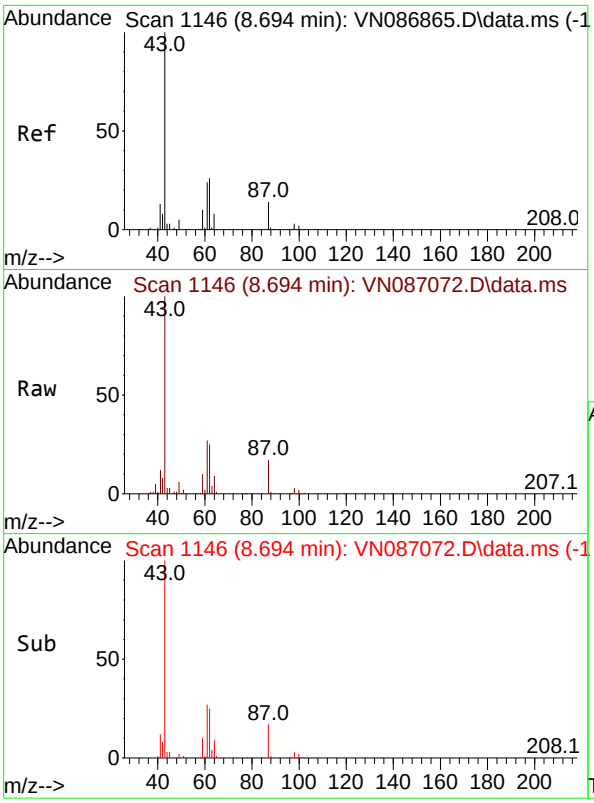


#42
1,2-Dichloroethane
Concen: 49.844 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 62 Resp: 133634

Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	21.2





#43
Isopropyl Acetate
Concen: 45.798 ug/l
RT: 8.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

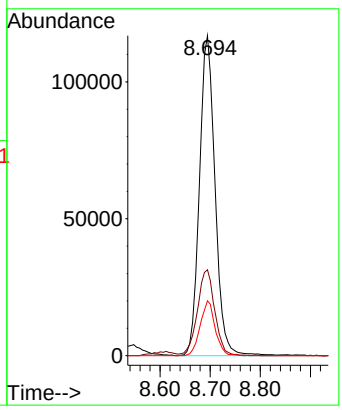
Tgt Ion: 43 Resp: 25294

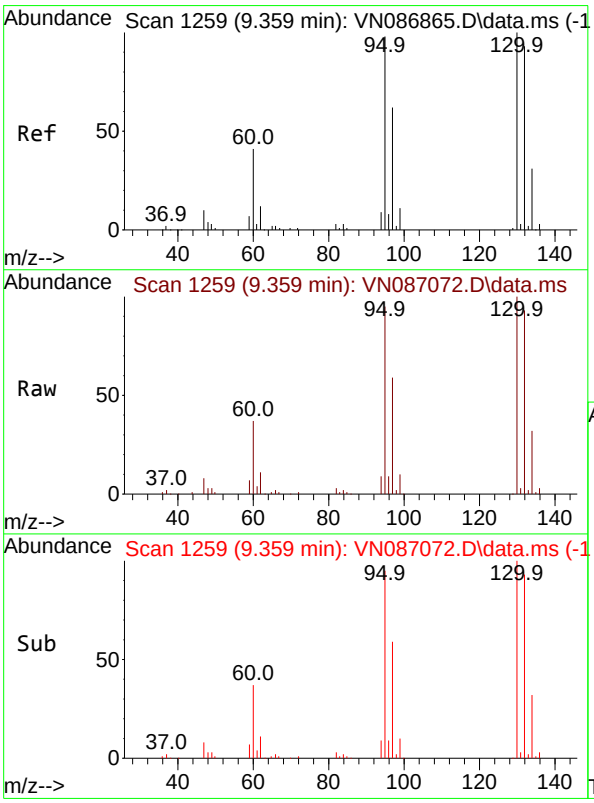
Ion	Ratio	Lower	Upper
43	100		
61	29.8	22.1	33.1
87	16.4	11.8	17.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

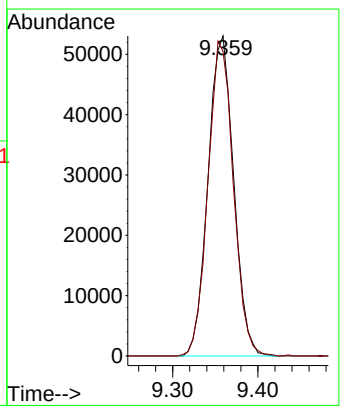


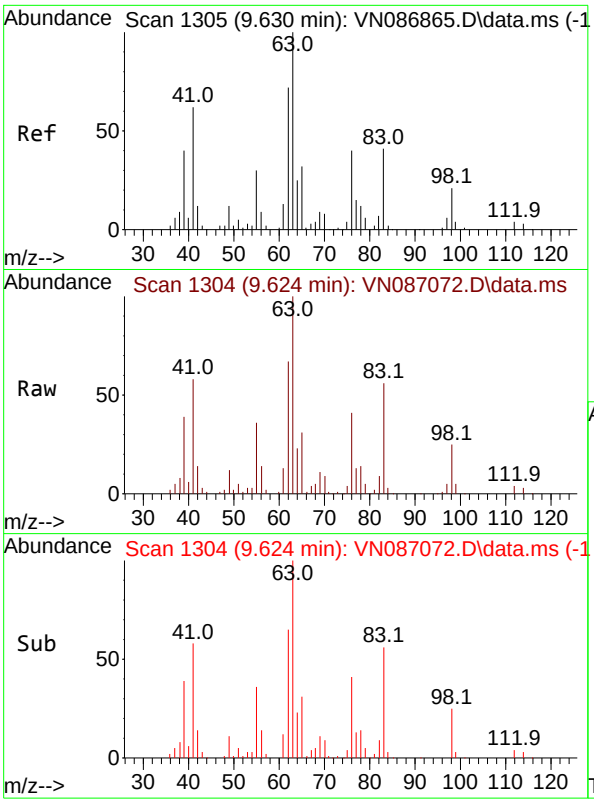


#44
Trichloroethene
Concen: 52.953 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:130 Resp: 110988

Ion	Ratio	Lower	Upper
130	100		
95	95.2	0.0	196.2

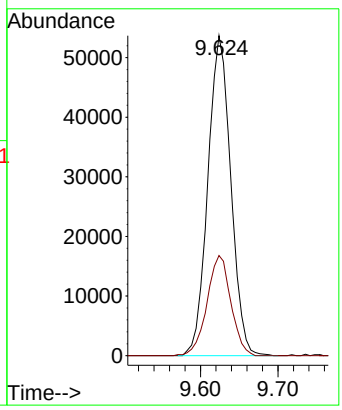




#45
1,2-Dichloropropane
Concen: 51.342 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 63 Resp: 110409

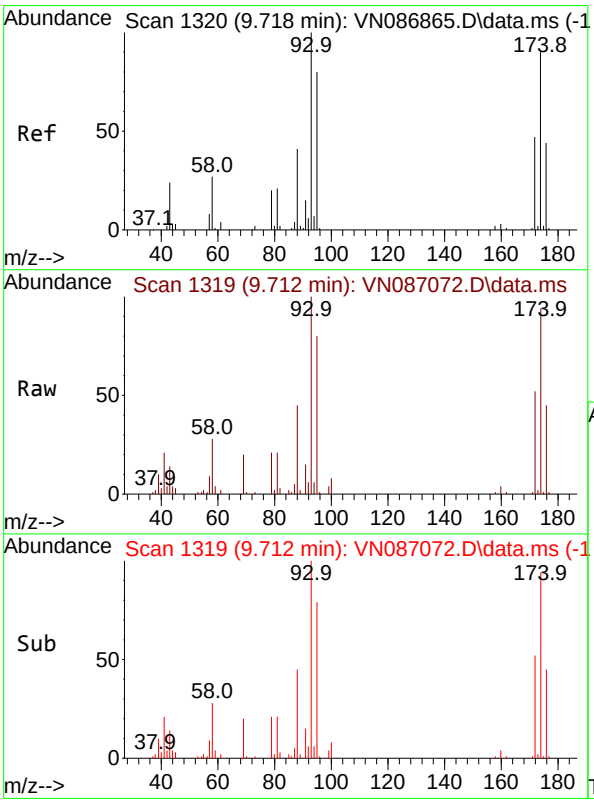
Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

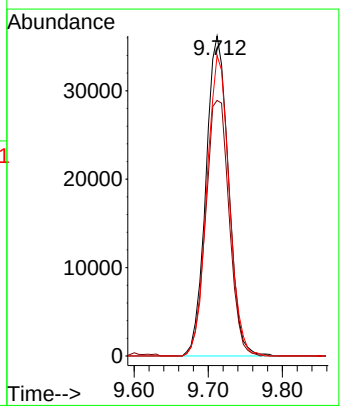
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

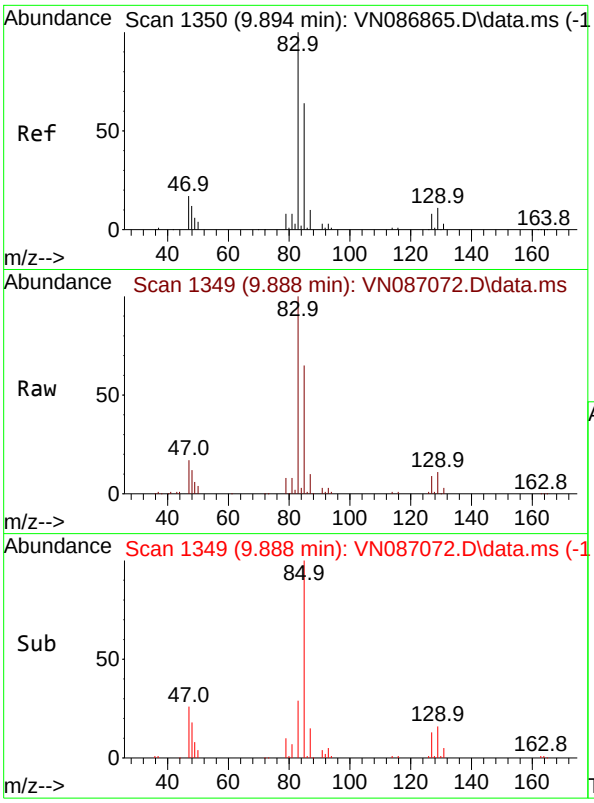


#46
Dibromomethane
Concen: 53.815 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 93 Resp: 76868

Ion	Ratio	Lower	Upper
93	100		
95	82.9	67.1	100.7
174	92.4	74.2	111.4

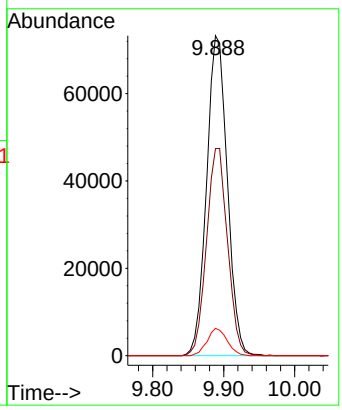




#47
Bromodichloromethane
Concen: 50.600 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 83 Resp: 14870

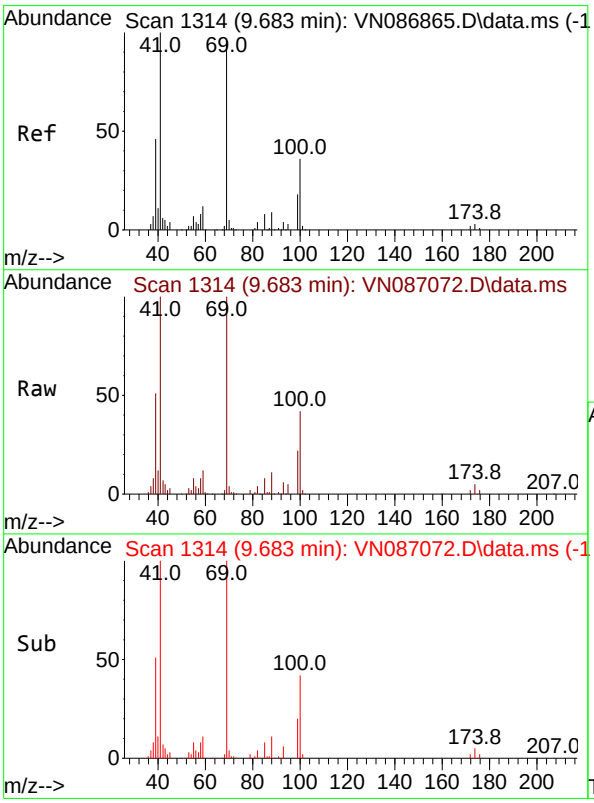
Ion	Ratio	Lower	Upper
83	100		
85	64.7	50.9	76.3
127	8.5	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

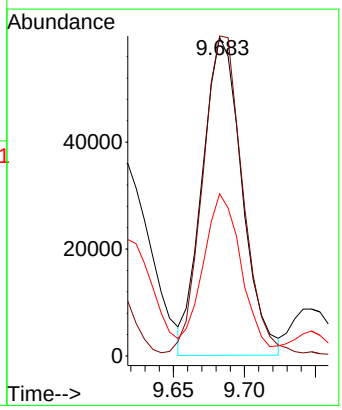
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

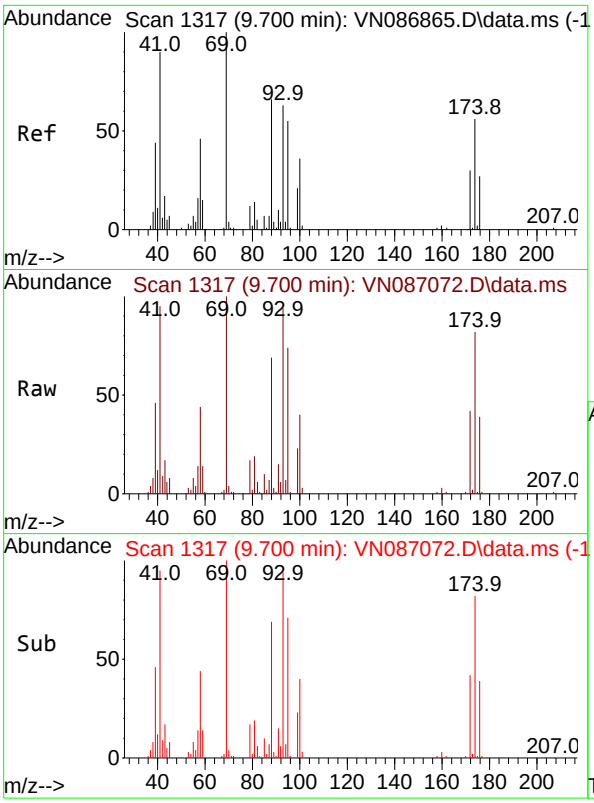


#48
Methyl methacrylate
Concen: 45.478 ug/l
RT: 9.683 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 41 Resp: 115606

Ion	Ratio	Lower	Upper
41	100		
69	102.3	74.6	112.0
39	50.4	40.2	60.4

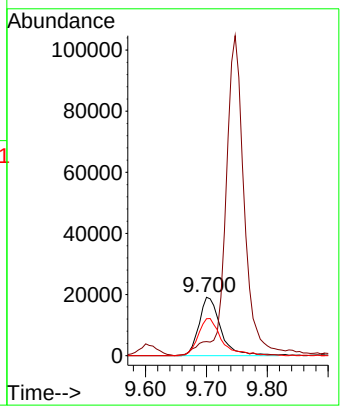




#49
1,4-Dioxane
Concen: 1023.116 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 88 Resp: 4731

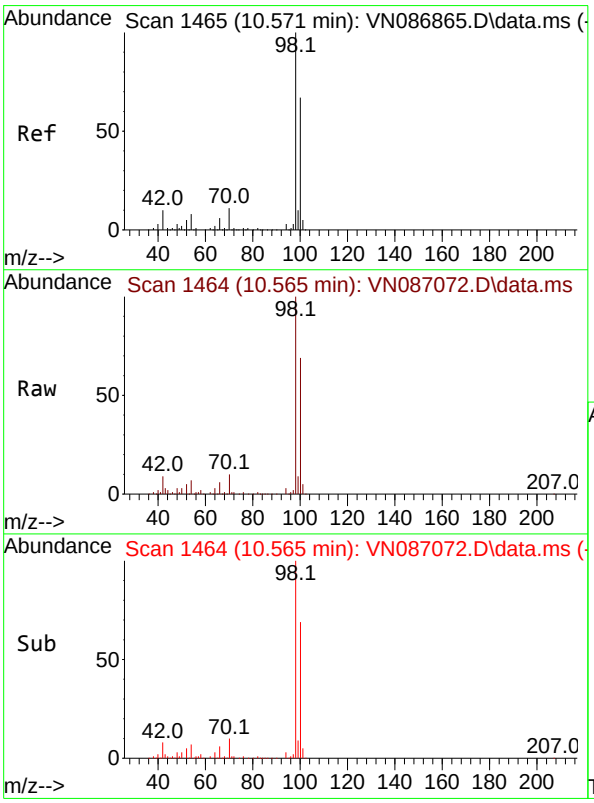
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	69.3	57.7	86.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

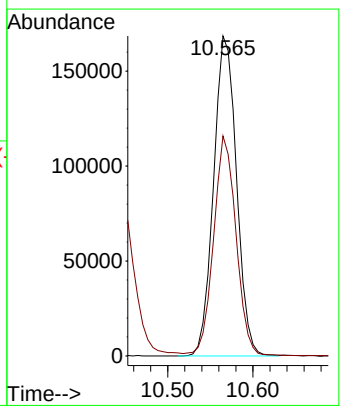
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

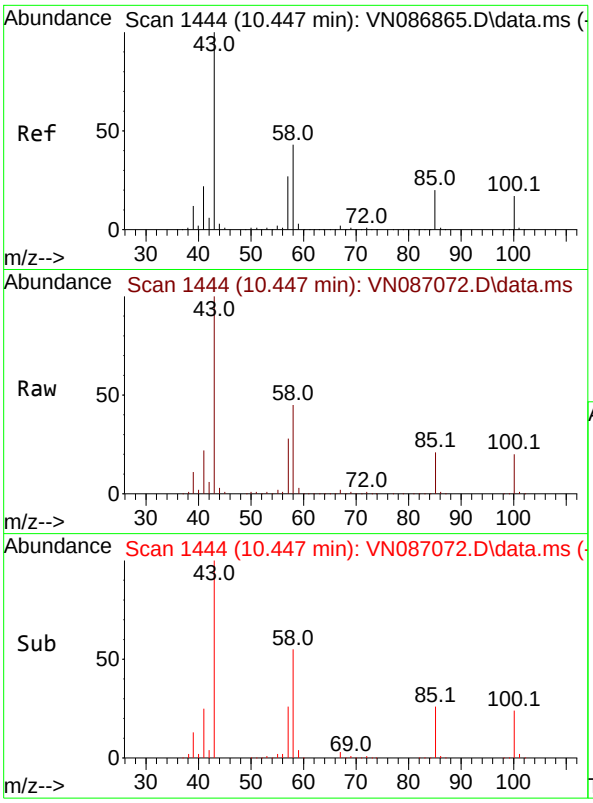


#50
Toluene-d8
Concen: 43.912 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 98 Resp: 315347

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.4	80.0





#51
4-Methyl-2-Pentanone
Concen: 236.369 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

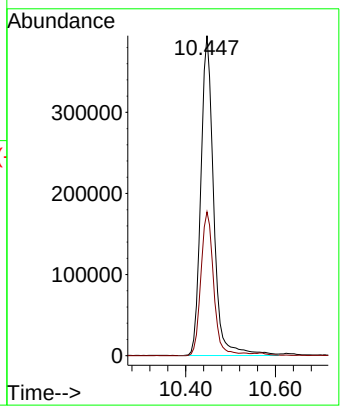
Tgt Ion: 43 Resp: 78589

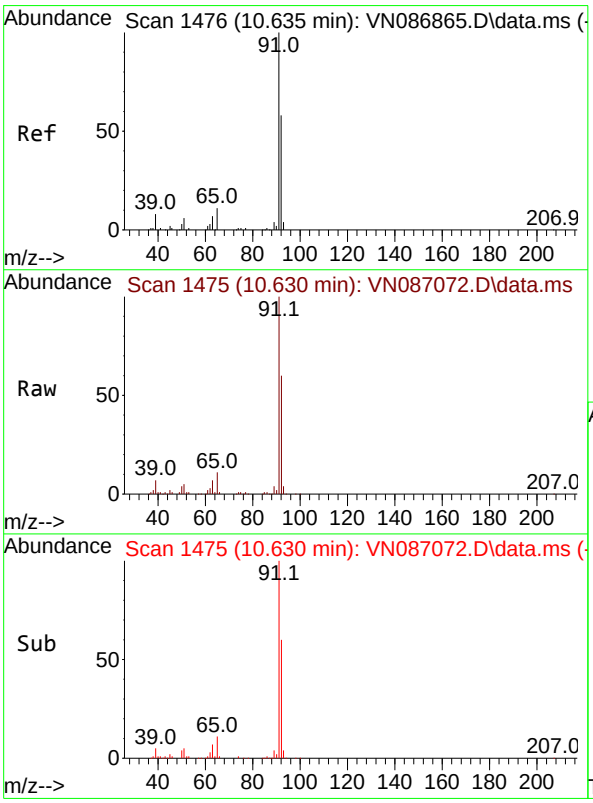
Ion	Ratio	Lower	Upper
43	100		
58	44.9	34.2	51.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

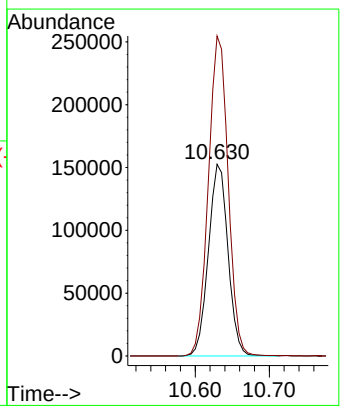


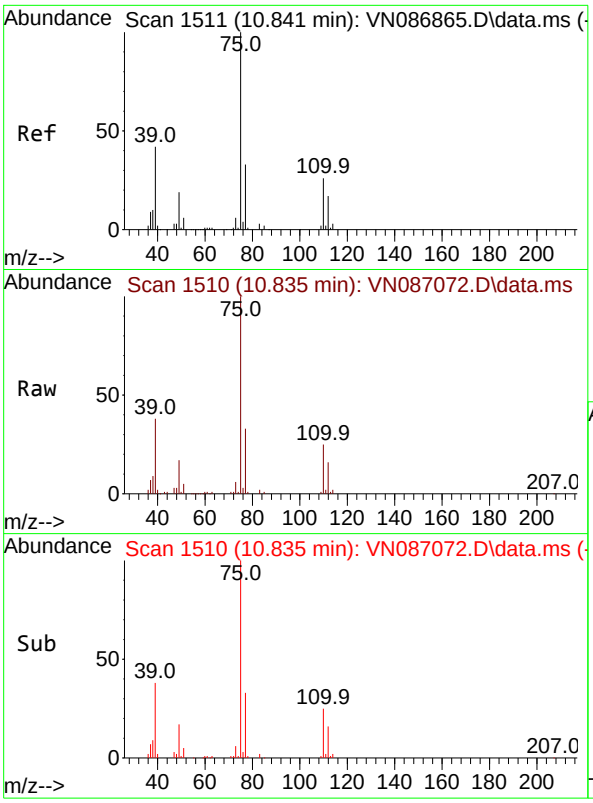


#52
Toluene
Concen: 51.889 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 92 Resp: 280299

Ion	Ratio	Lower	Upper
92	100		
91	168.5	136.5	204.7

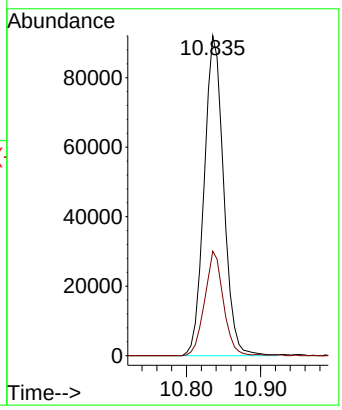




#53
t-1,3-Dichloropropene
Concen: 51.076 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 75 Resp: 16784

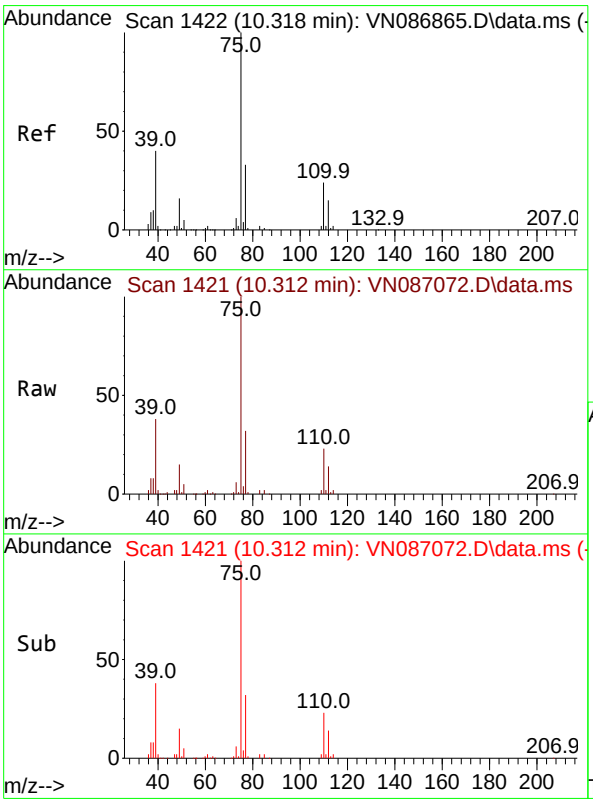
Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

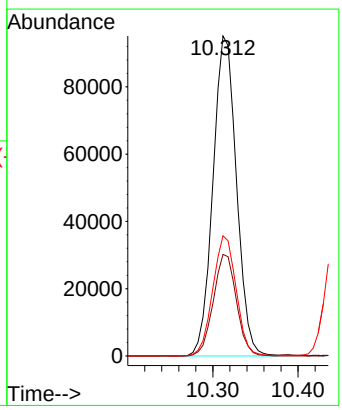
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

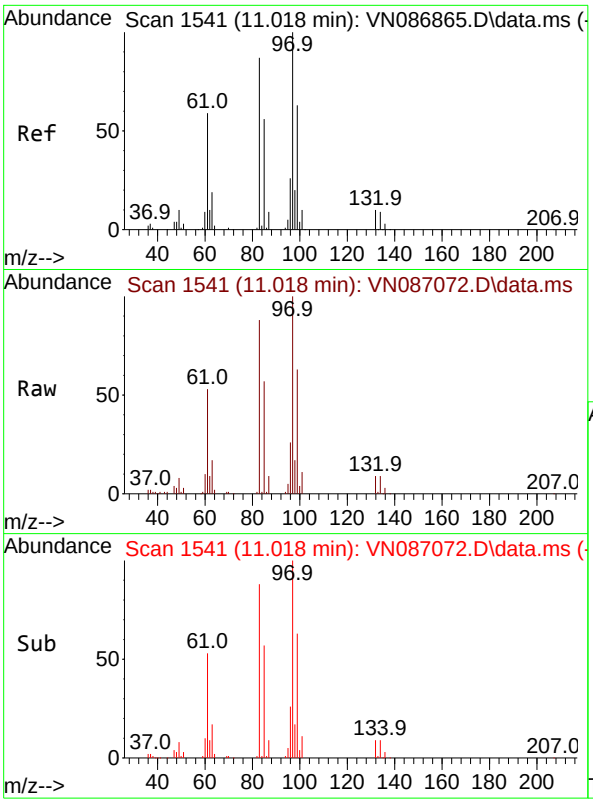


#54
cis-1,3-Dichloropropene
Concen: 51.826 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 75 Resp: 182228

Ion	Ratio	Lower	Upper
75	100		
77	31.7	26.2	39.4
39	37.6	32.3	48.5

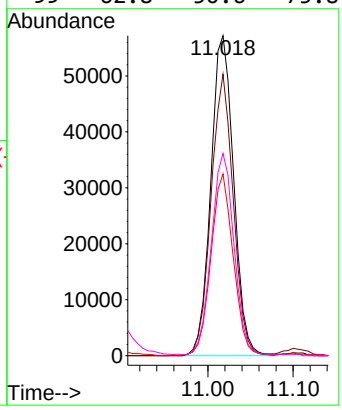




#55
1,1,2-Trichloroethane
Concen: 51.266 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 97 Resp: 10656

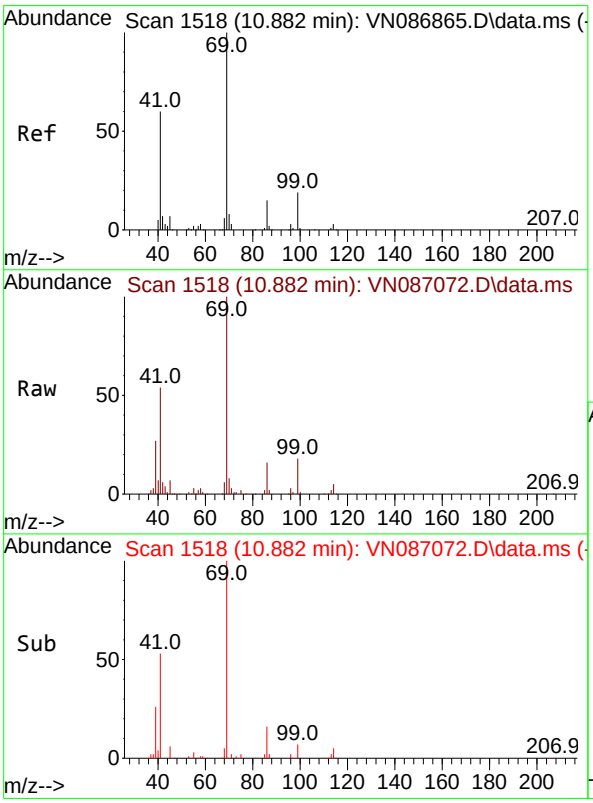
Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.7	104.5
85	56.8	45.1	67.7
99	62.8	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

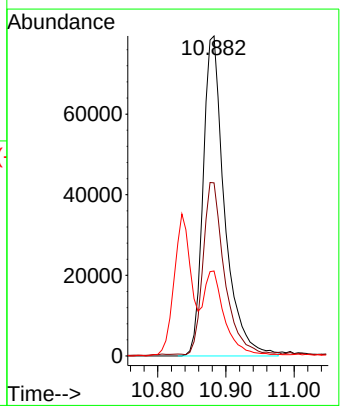
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

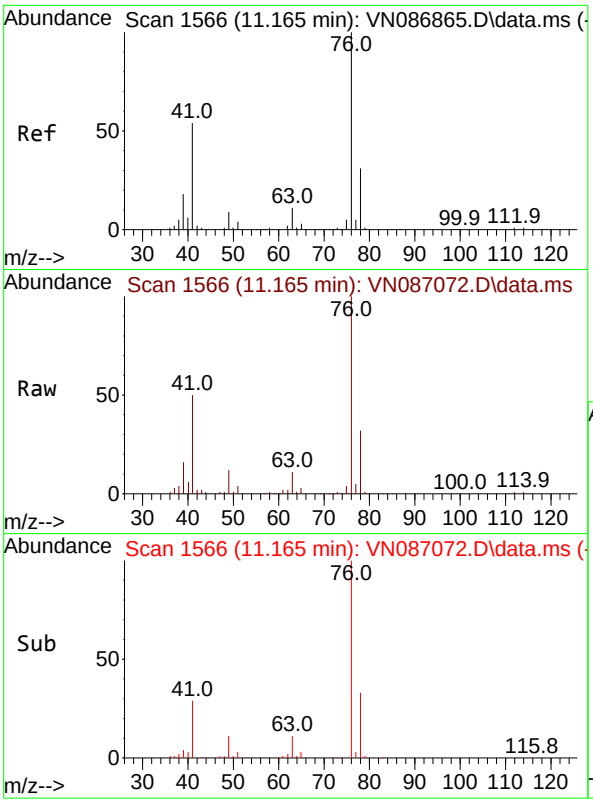


#56
Ethyl methacrylate
Concen: 52.544 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 69 Resp: 173955

Ion	Ratio	Lower	Upper
69	100		
41	53.8	47.2	70.8
39	25.6	23.0	34.6

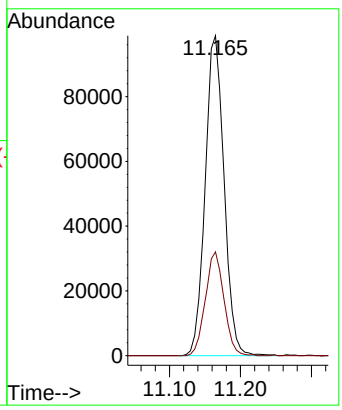




#57
1,3-Dichloropropane
Concen: 50.593 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 76 Resp: 18242

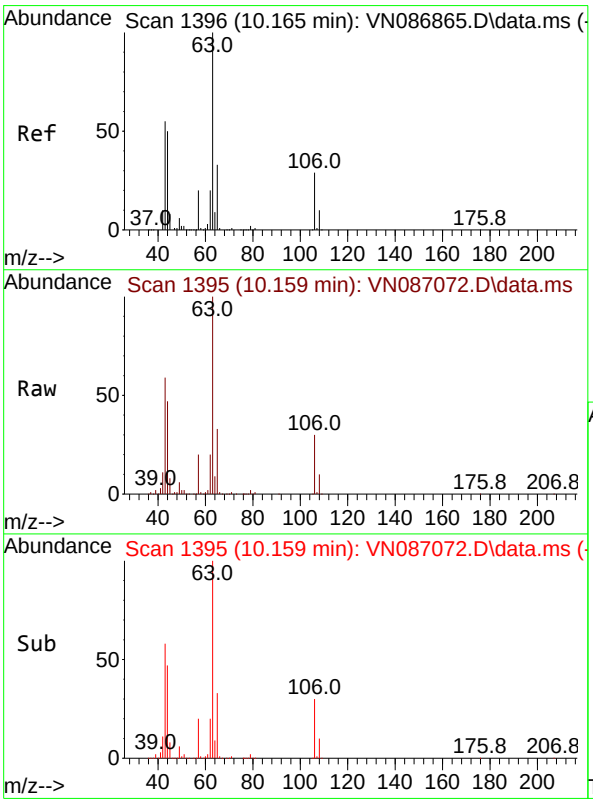
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

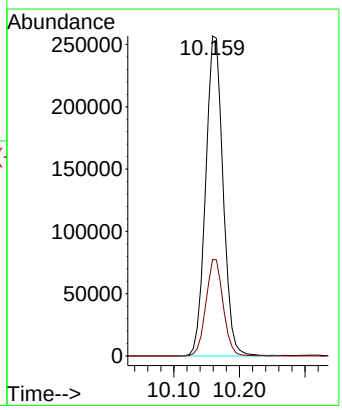
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

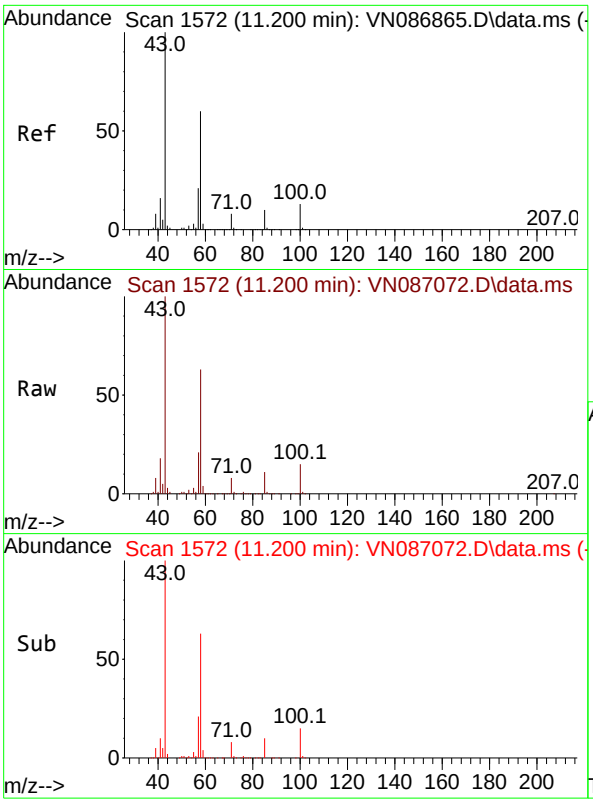


#58
2-Chloroethyl Vinyl ether
Concen: 239.927 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 63 Resp: 473770

Ion	Ratio	Lower	Upper
63	100		
106	29.8	23.0	34.6





#59
2-Hexanone
Concen: 243.662 ug/l
RT: 11.200 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

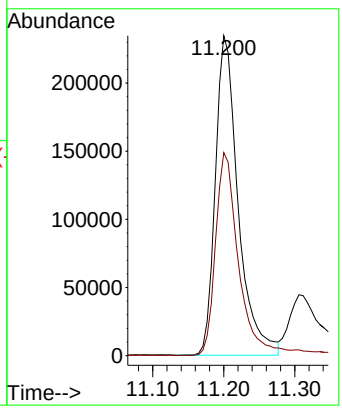
Tgt Ion: 43 Resp: 52184

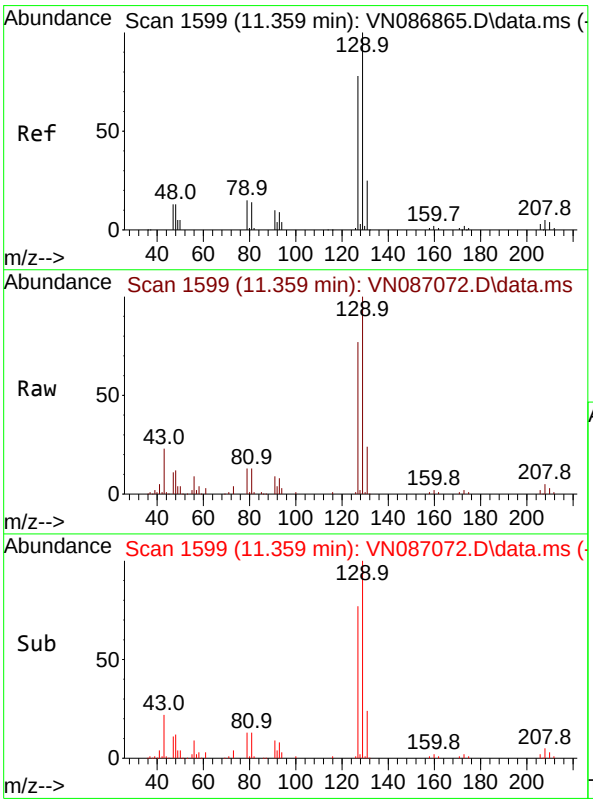
Ion	Ratio	Lower	Upper
43	100		
58	66.2	30.4	91.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

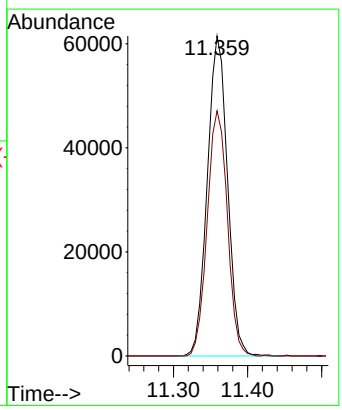


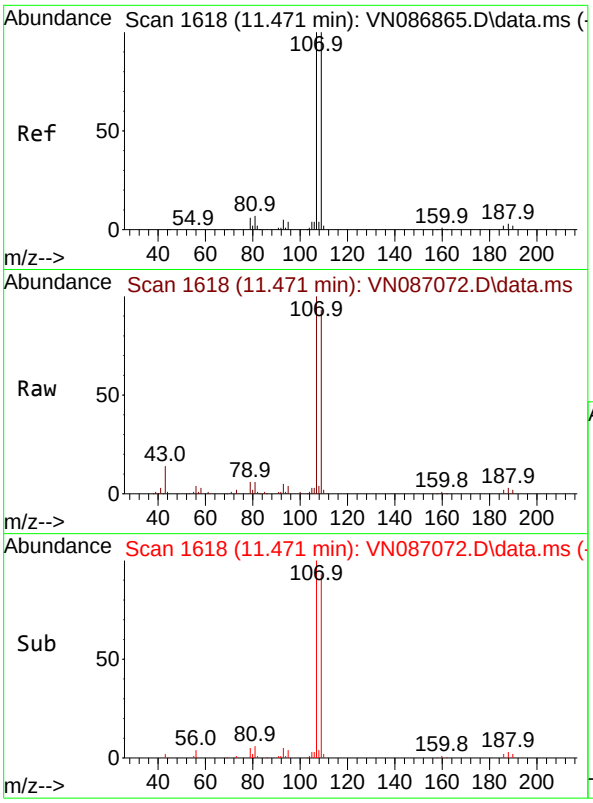


#60
Dibromochloromethane
Concen: 53.772 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:129 Resp: 116451

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.6	115.8

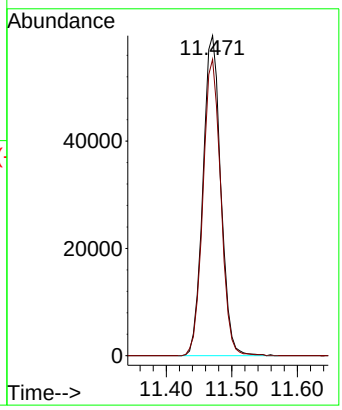




#61
1,2-Dibromoethane
Concen: 52.979 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:107 Resp: 11287

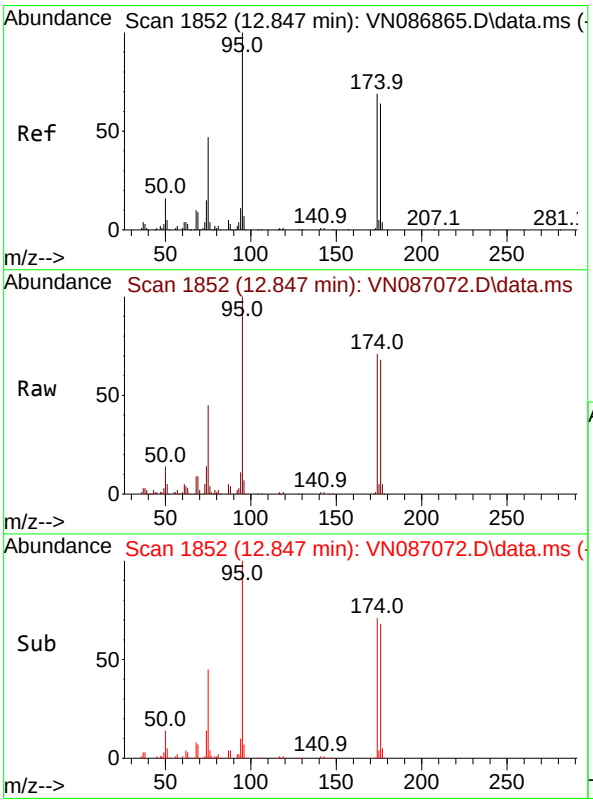
Ion	Ratio	Lower	Upper
107	100		
109	92.3	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

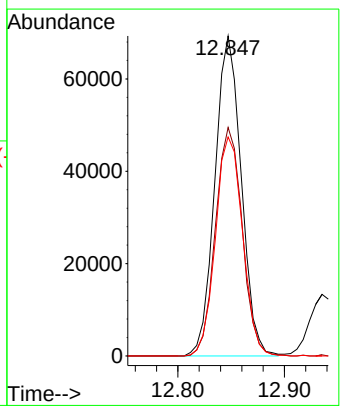
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

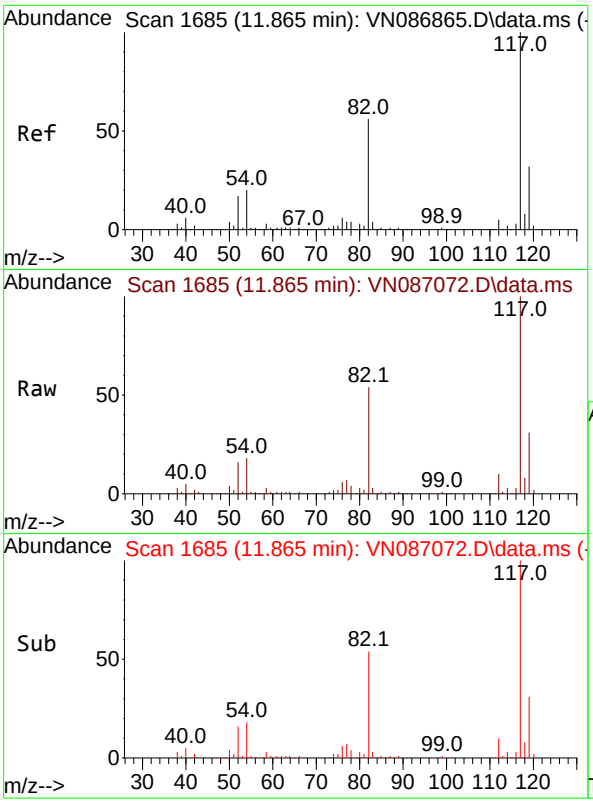


#62
4-Bromofluorobenzene
Concen: 44.575 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 95 Resp: 118929

Ion	Ratio	Lower	Upper
95	100		
174	72.4	0.0	141.8
176	70.6	0.0	132.6

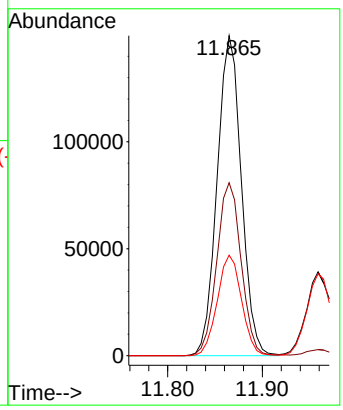




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:117 Resp: 26599

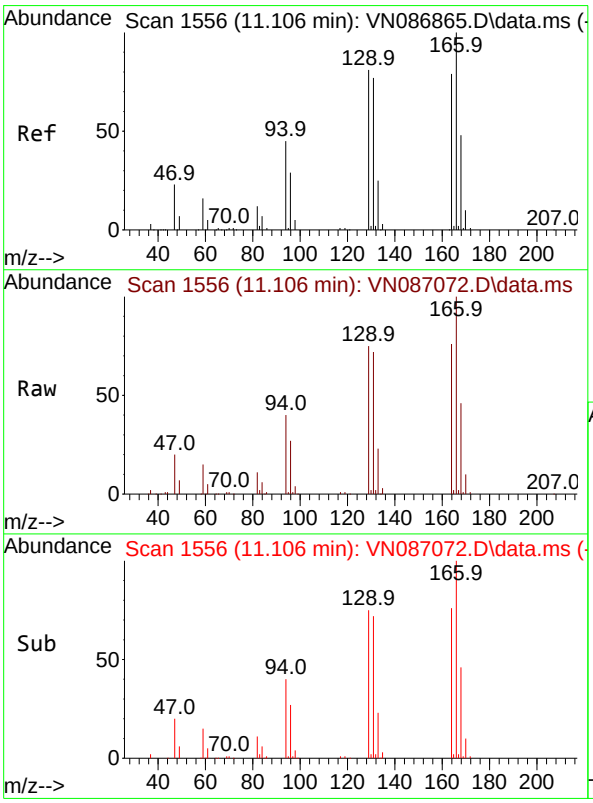
Ion	Ratio	Lower	Upper
117	100		
82	54.0	44.6	67.0
119	31.4	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

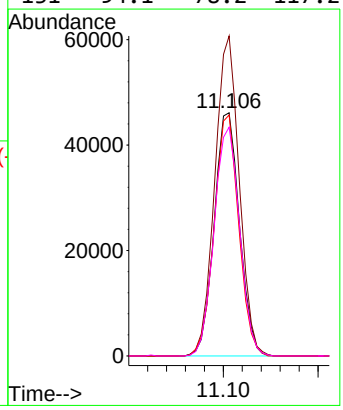
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

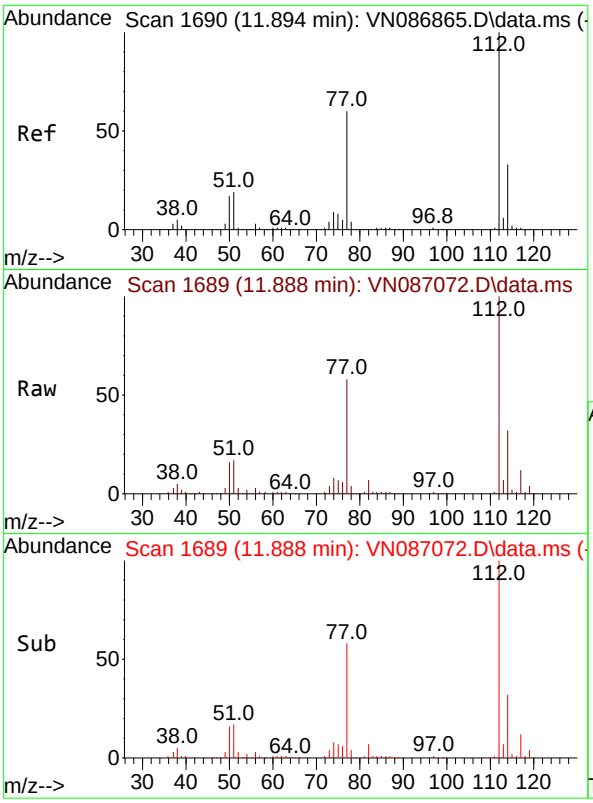


#64
Tetrachloroethene
Concen: 50.712 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:164 Resp: 85369

Ion	Ratio	Lower	Upper
164	100		
166	131.6	101.8	152.8
129	99.1	83.0	124.4
131	94.1	78.2	117.2

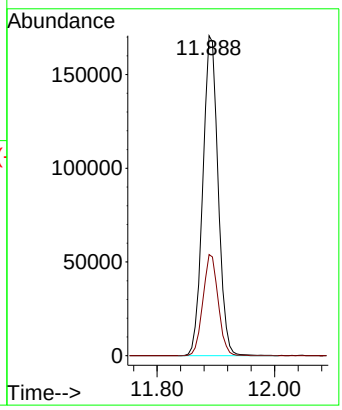




#65
Chlorobenzene
Concen: 52.609 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:112 Resp: 30863

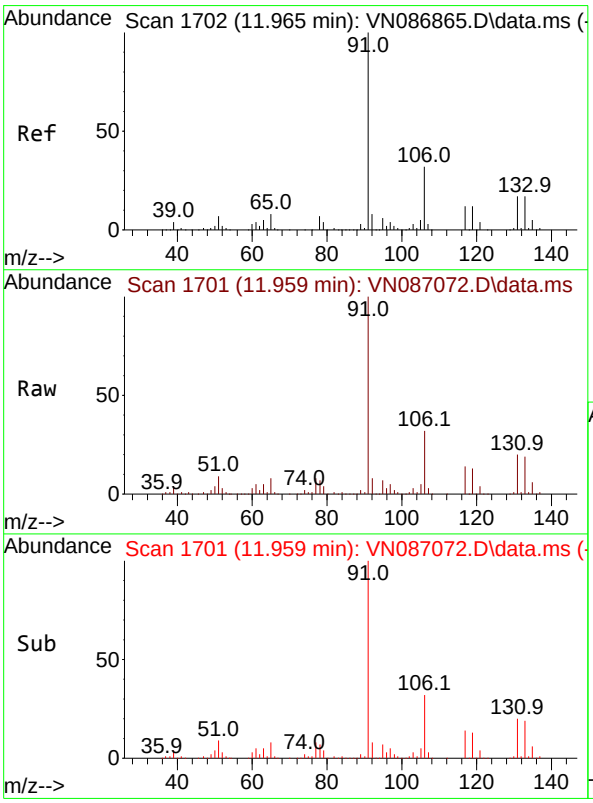
Ion	Ratio	Lower	Upper
112	100		
114	31.6	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

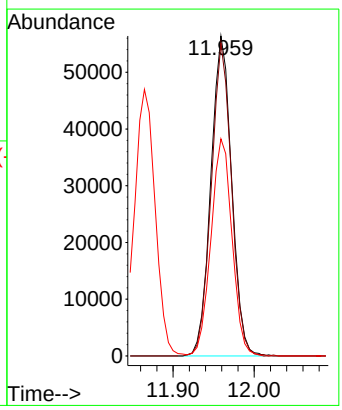
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

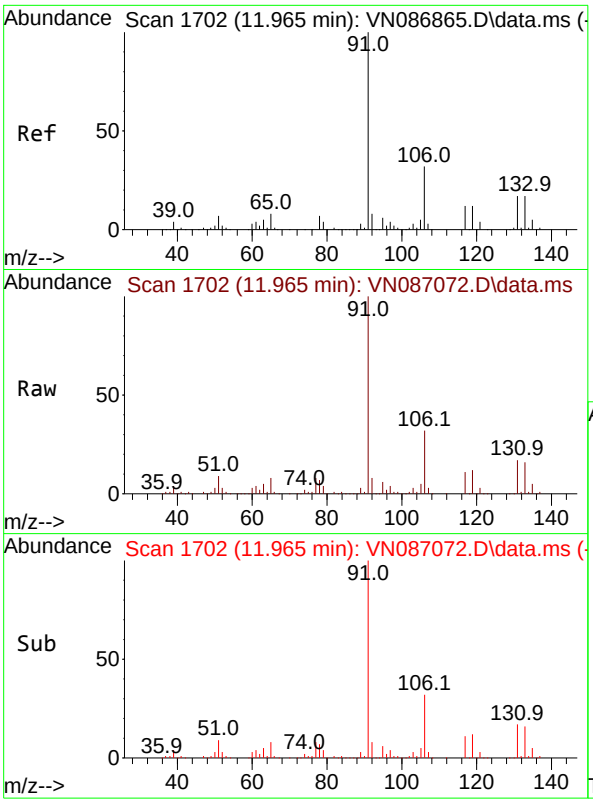


#66
1,1,1,2-Tetrachloroethane
Concen: 53.179 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:131 Resp: 100286

Ion	Ratio	Lower	Upper
131	100		
133	95.2	48.3	144.8
119	68.7	34.0	101.8

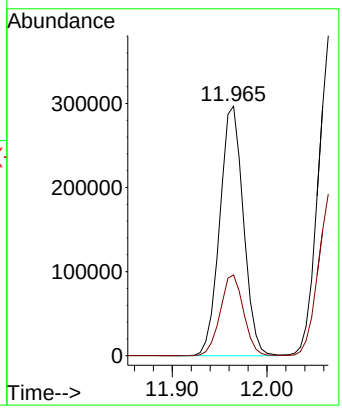




#67
Ethyl Benzene
Concen: 50.862 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 91 Resp: 51396

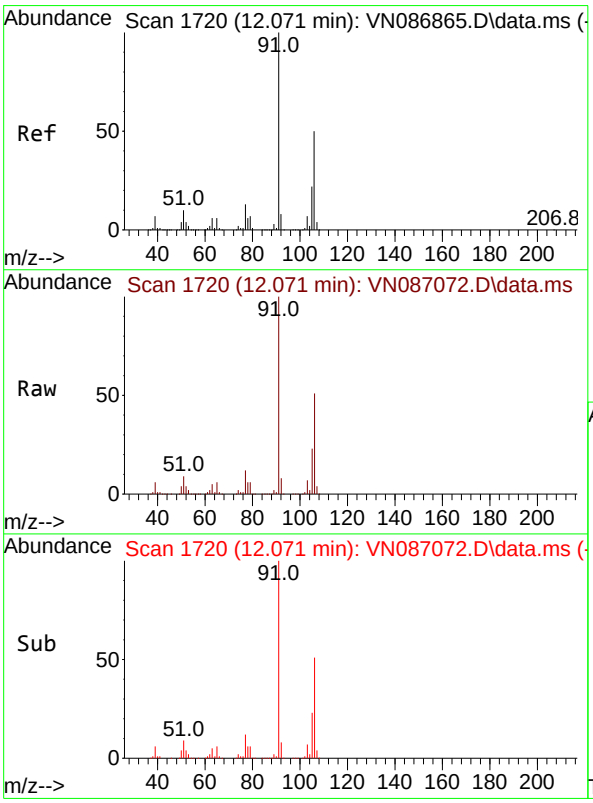
Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

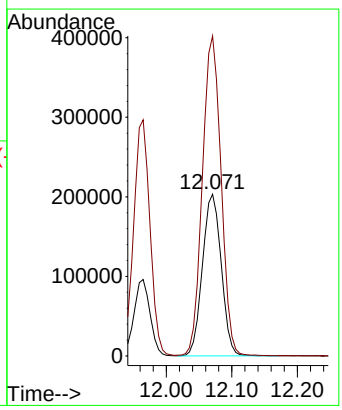
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

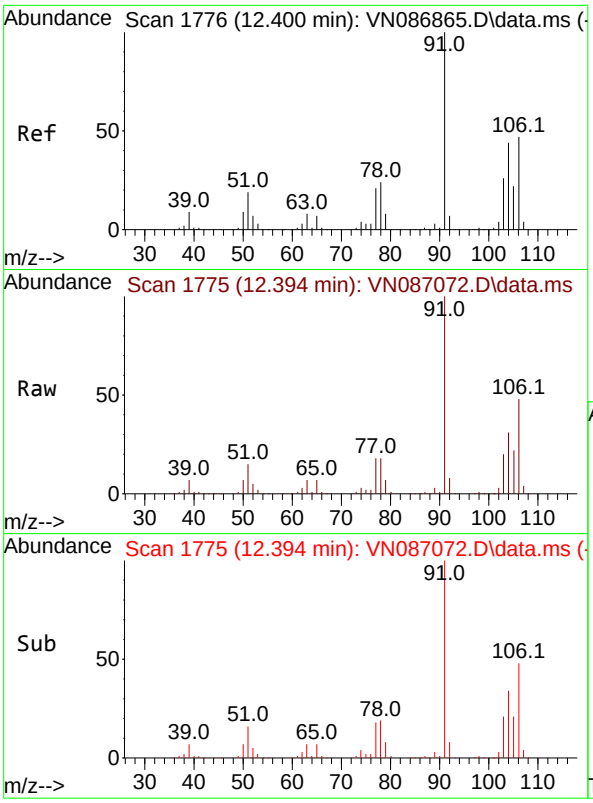


#68
m/p-Xylenes
Concen: 104.697 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:106 Resp: 404997

Ion	Ratio	Lower	Upper
106	100		
91	197.2	159.4	239.0





#69
o-Xylene
Concen: 52.832 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

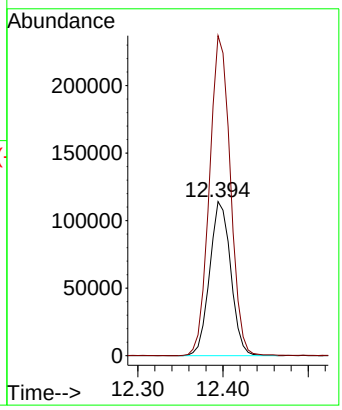
Tgt Ion:106 Resp: 19573

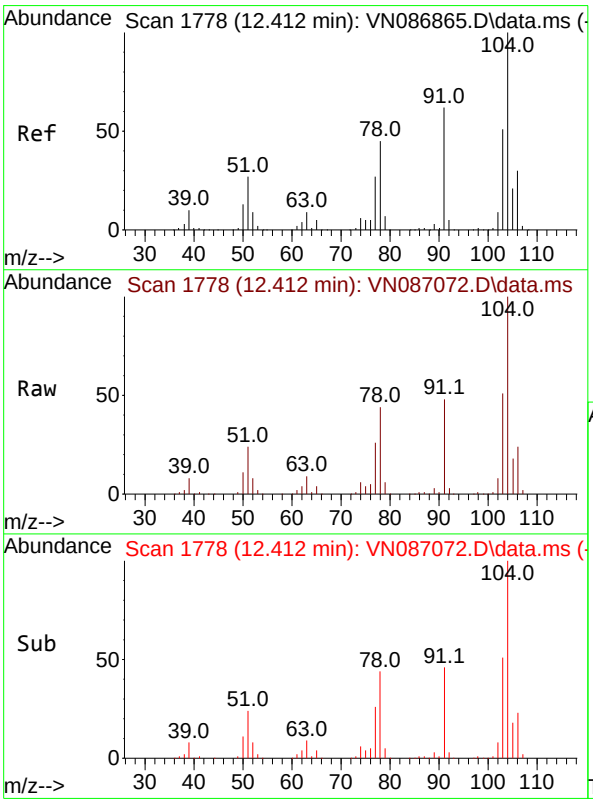
Ion	Ratio	Lower	Upper
106	100		
91	207.1	106.1	318.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

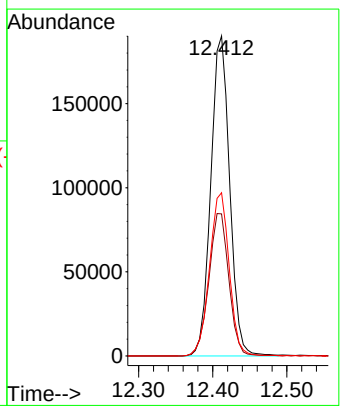


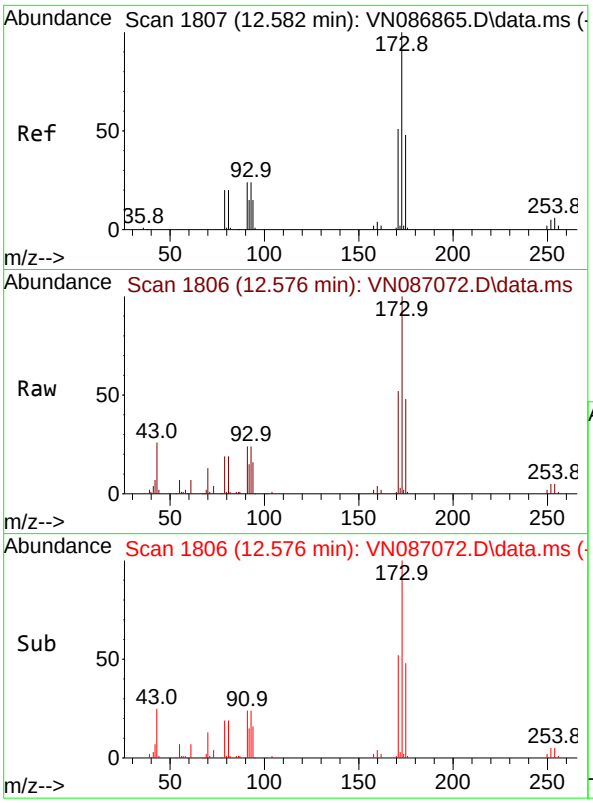


#70
Styrene
Concen: 53.066 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:104 Resp: 336415

Ion	Ratio	Lower	Upper
104	100		
78	47.3	38.5	57.7
103	53.3	43.1	64.7

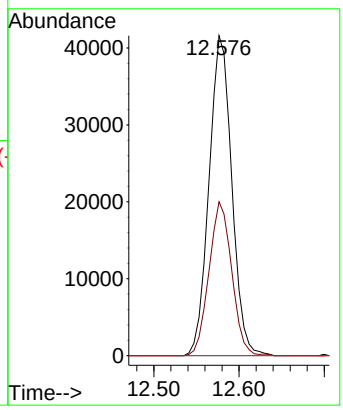




#71
Bromoform
Concen: 55.239 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:173 Resp: 7718

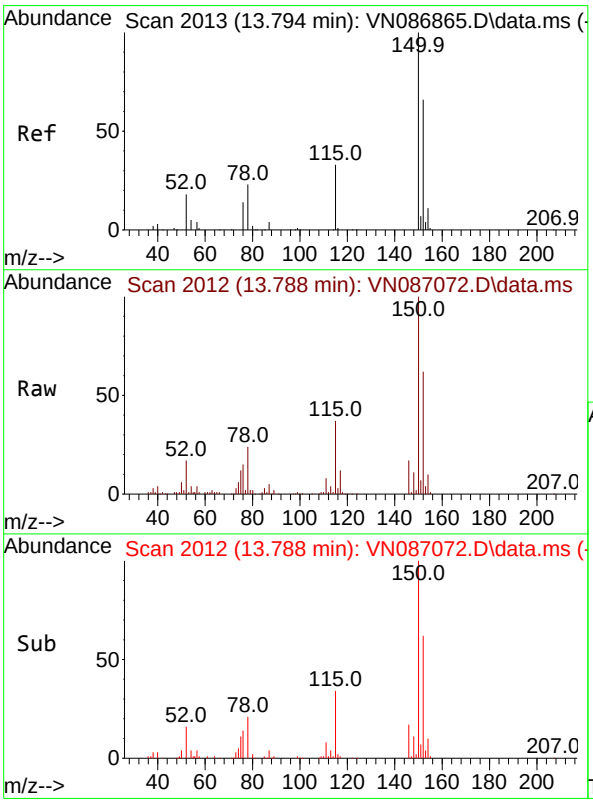
Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

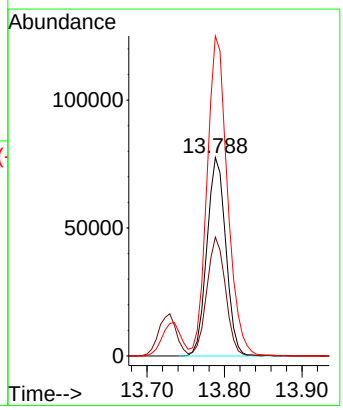
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

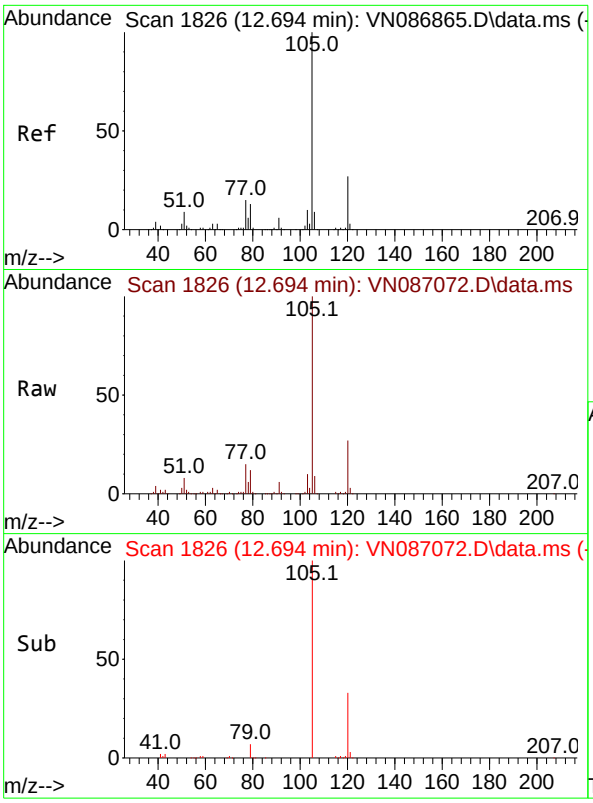


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:152 Resp: 131413

Ion	Ratio	Lower	Upper
152	100		
115	59.4	30.1	90.5
150	174.6	0.0	345.0

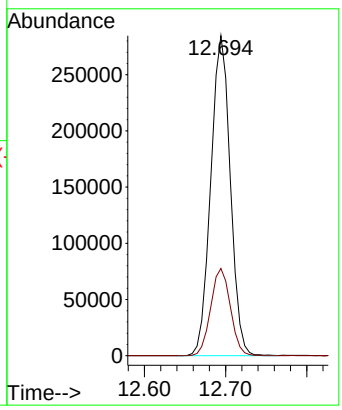




#73
Isopropylbenzene
Concen: 49.691 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:105 Resp: 47571

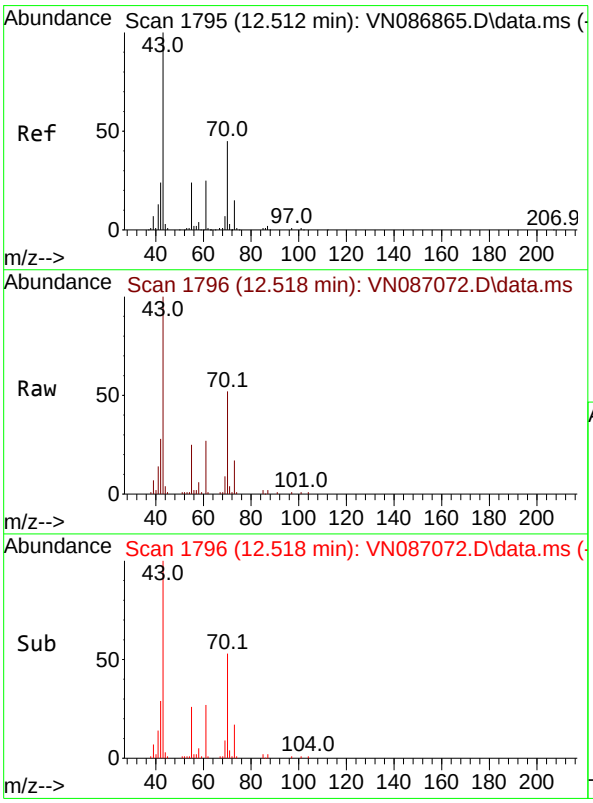
Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

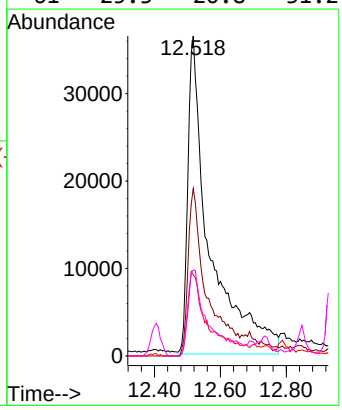
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

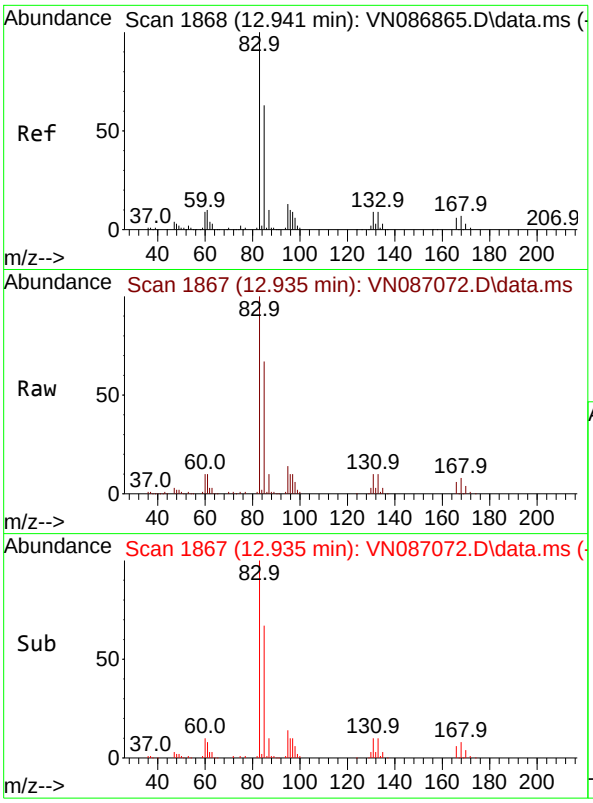


#74
N-amyl acetate
Concen: 49.973 ug/l m
RT: 12.518 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 43 Resp: 167180

Ion	Ratio	Lower	Upper
43	100		
70	44.5	37.6	56.4
55	24.7	19.0	28.6
61	25.3	20.8	31.2





#75
1,1,2,2-Tetrachloroethane
Concen: 51.233 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

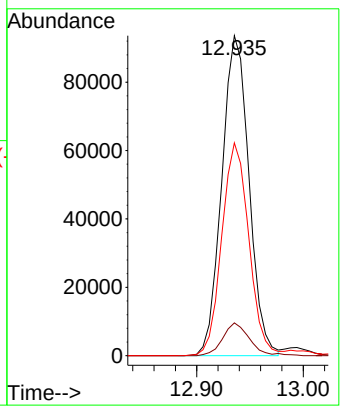
Tgt Ion: 83 Resp: 16616

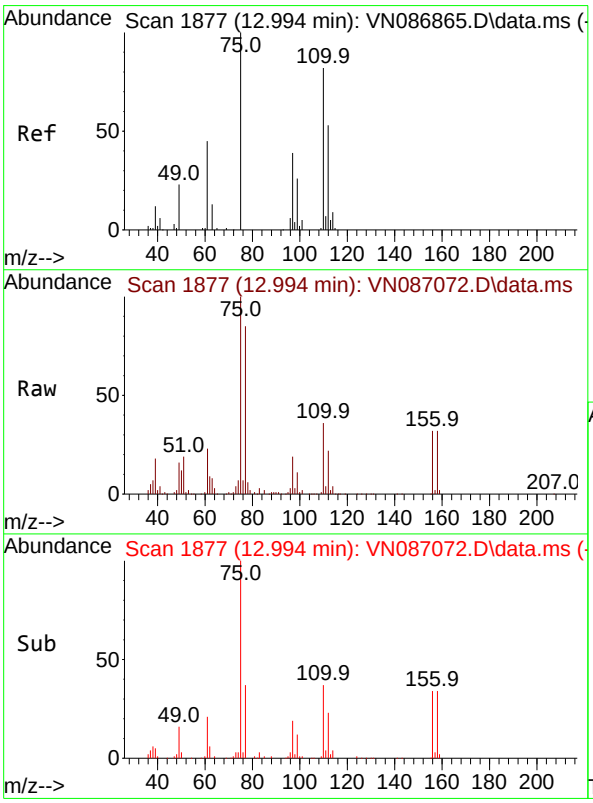
Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.9	14.7
85	66.2	32.0	96.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

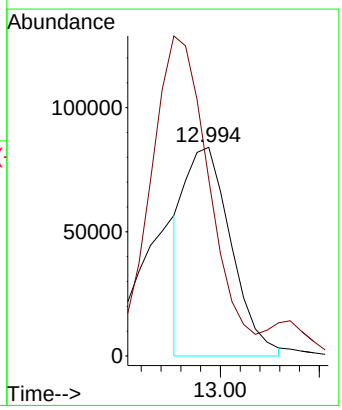


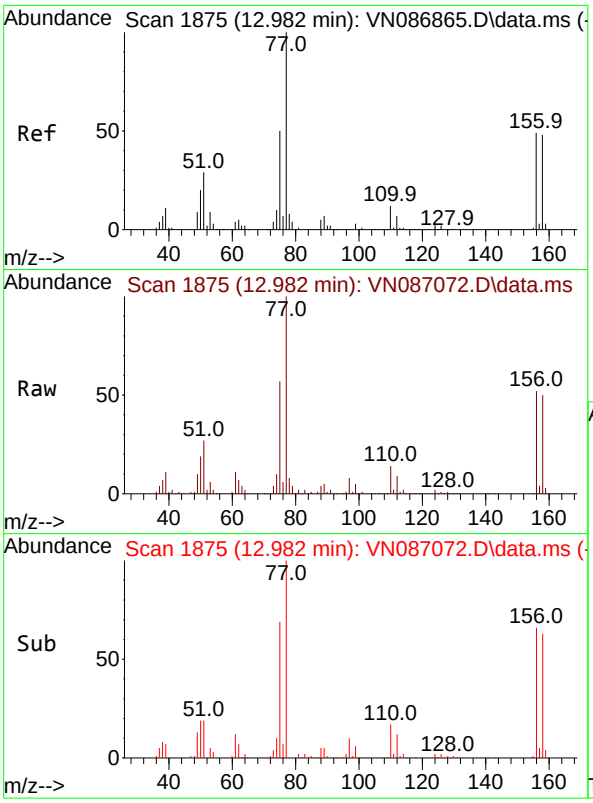


#76
1,2,3-Trichloropropane
Concen: 44.072 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 75 Resp: 137668

Ion	Ratio	Lower	Upper
75	100		
77	193.1	79.3	237.9





#77
Bromobenzene
Concen: 53.296 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

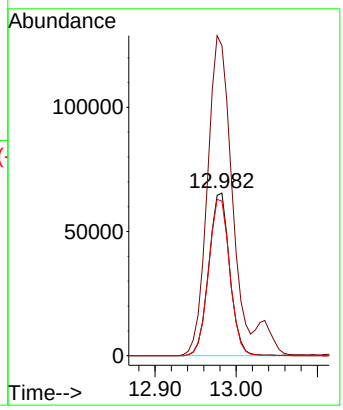
Tgt Ion:156 Resp: 11701

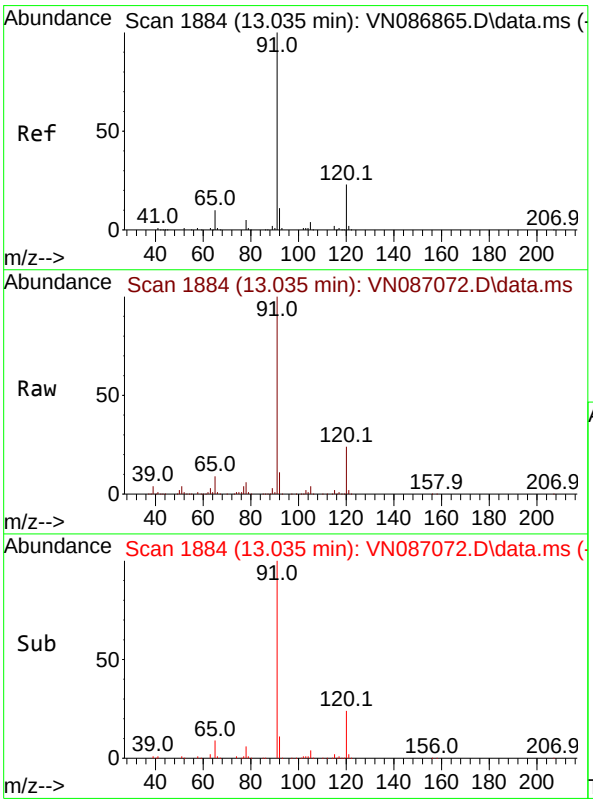
Ion	Ratio	Lower	Upper
156	100		
77	227.2	117.7	353.1
158	97.5	48.1	144.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

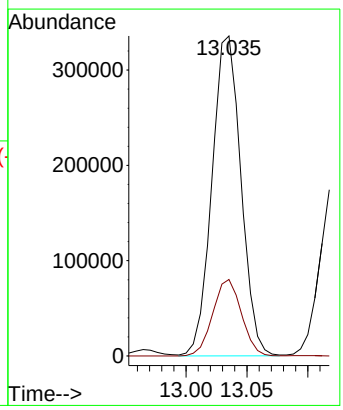


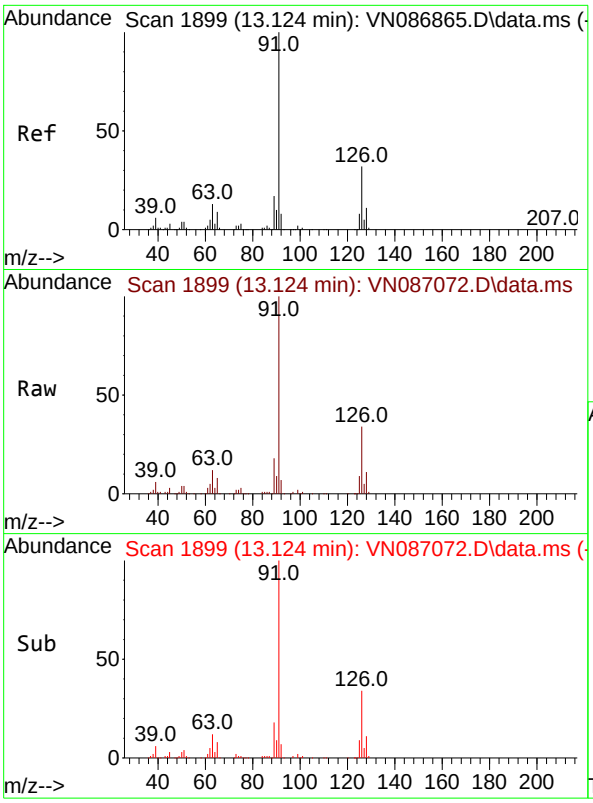


#78
n-propylbenzene
Concen: 47.881 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 91 Resp: 557066

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.4	34.2

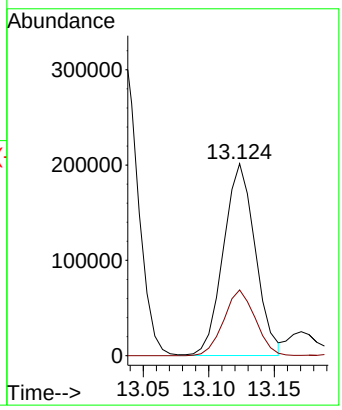




#79
2-Chlorotoluene
Concen: 48.823 ug/l
RT: 13.124 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 91 Resp: 34065

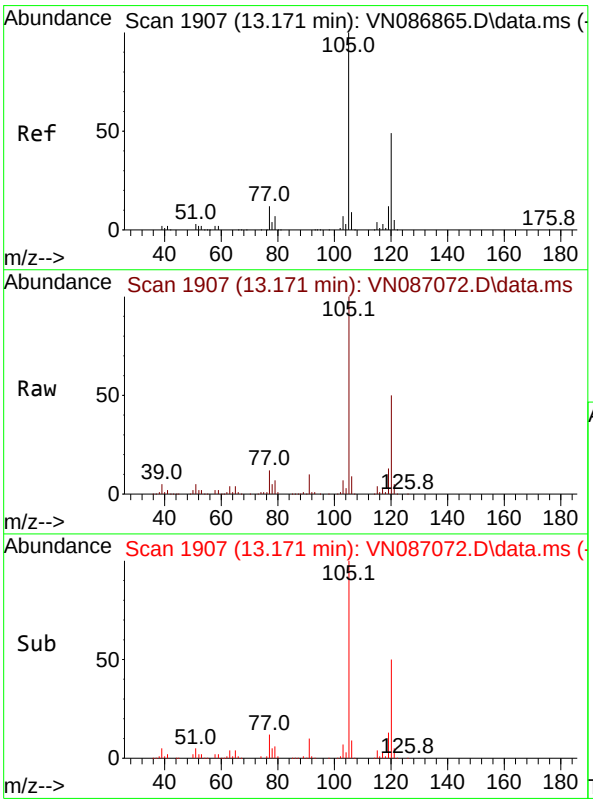
Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.2	48.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

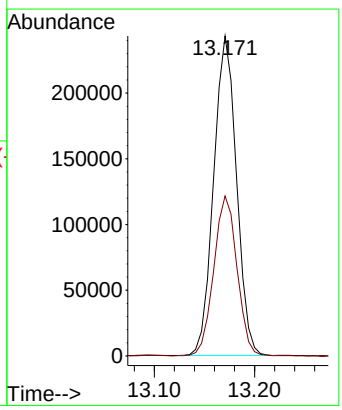
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

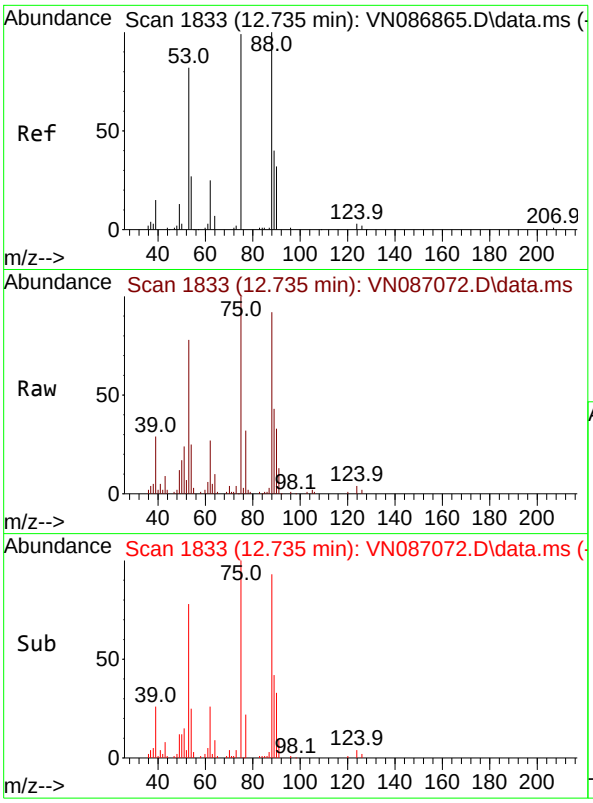


#80
1,3,5-Trimethylbenzene
Concen: 48.554 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:105 Resp: 383774

Ion	Ratio	Lower	Upper
105	100		
120	51.1	24.9	74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 45.254 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

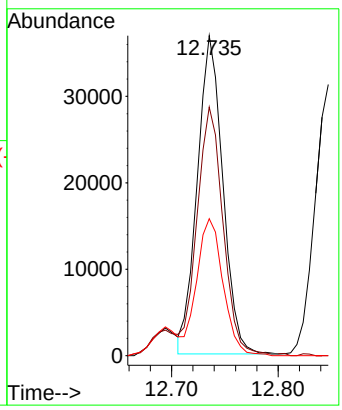
Tgt Ion: 75 Resp: 6141

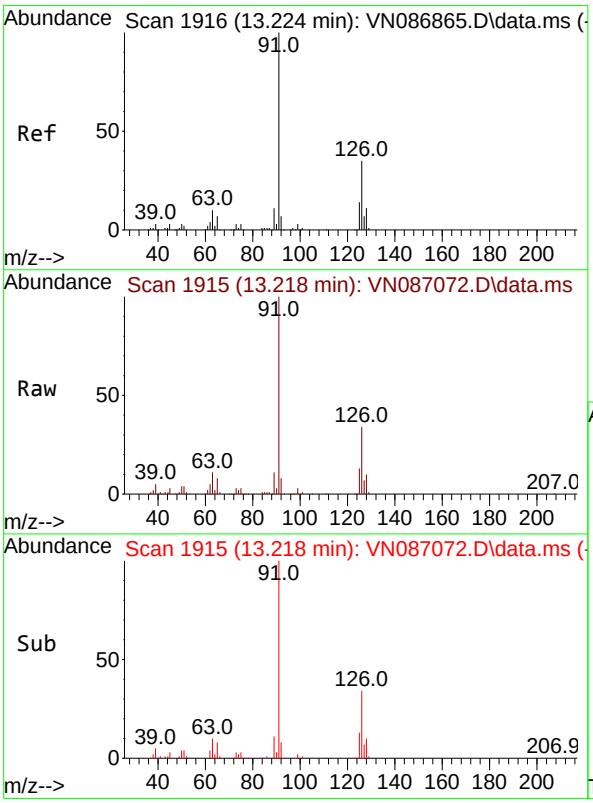
Ion	Ratio	Lower	Upper
75	100		
53	80.2	66.6	99.8
89	45.2	36.7	55.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

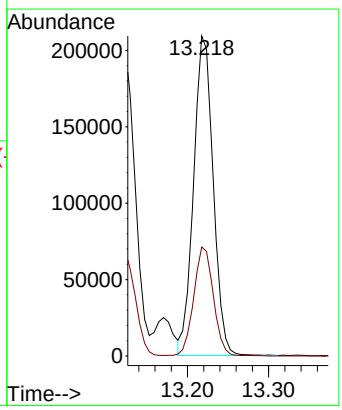


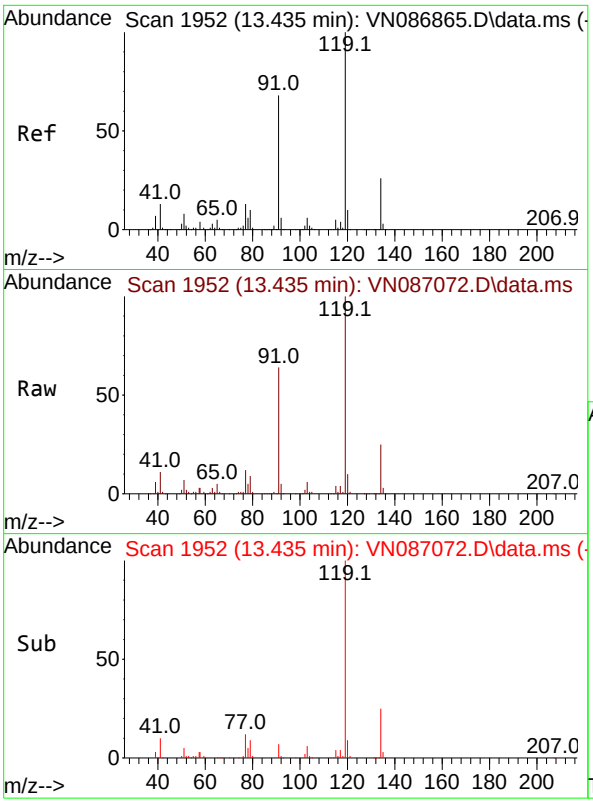


#82
4-Chlorotoluene
Concen: 49.722 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 91 Resp: 351028

Ion	Ratio	Lower	Upper
91	100		
126	34.3	16.7	50.1

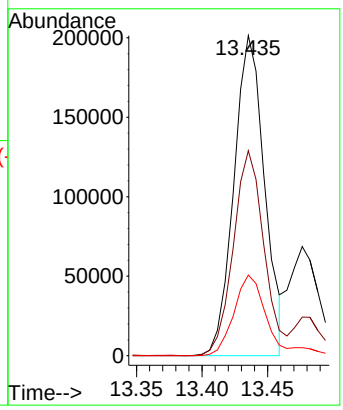




#83
tert-Butylbenzene
Concen: 45.308 ug/l
RT: 13.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:119 Resp: 32781

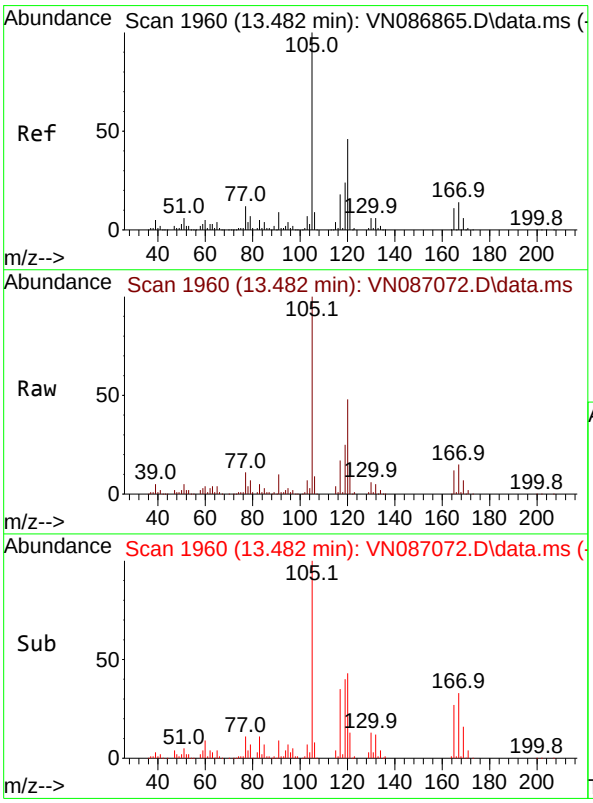
Ion	Ratio	Lower	Upper
119	100		
91	64.3	32.1	96.5
134	27.5	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

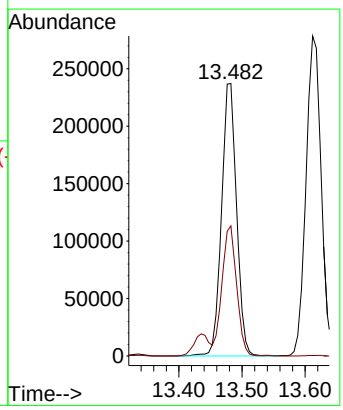
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

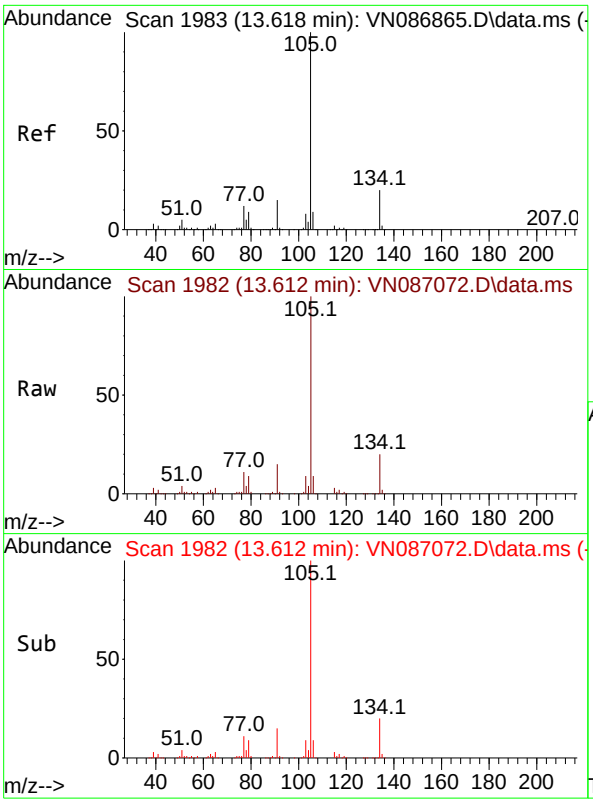


#84
1,2,4-Trimethylbenzene
Concen: 49.418 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:105 Resp: 391683

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.2	69.6





#85
sec-Butylbenzene
Concen: 44.163 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

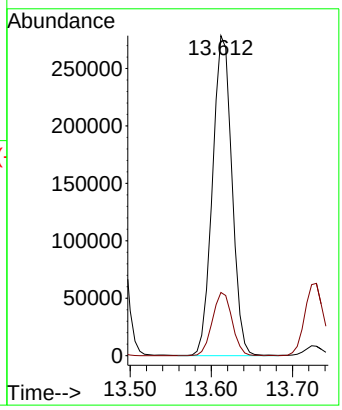
Tgt Ion:105 Resp: 46402

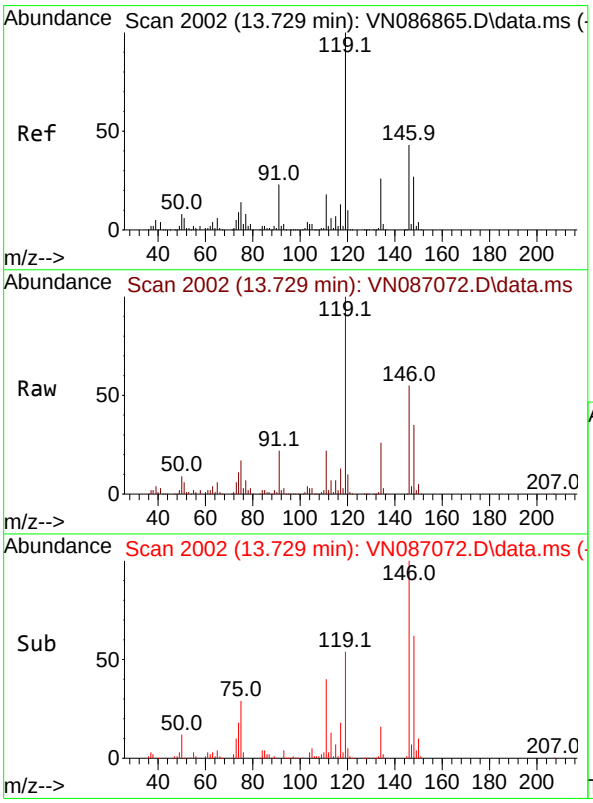
Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	30.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

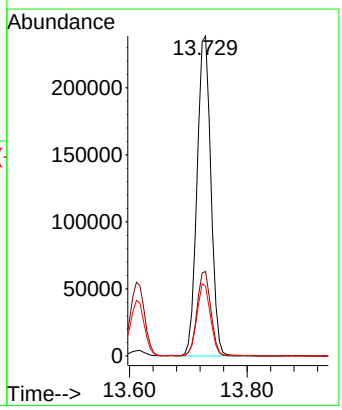


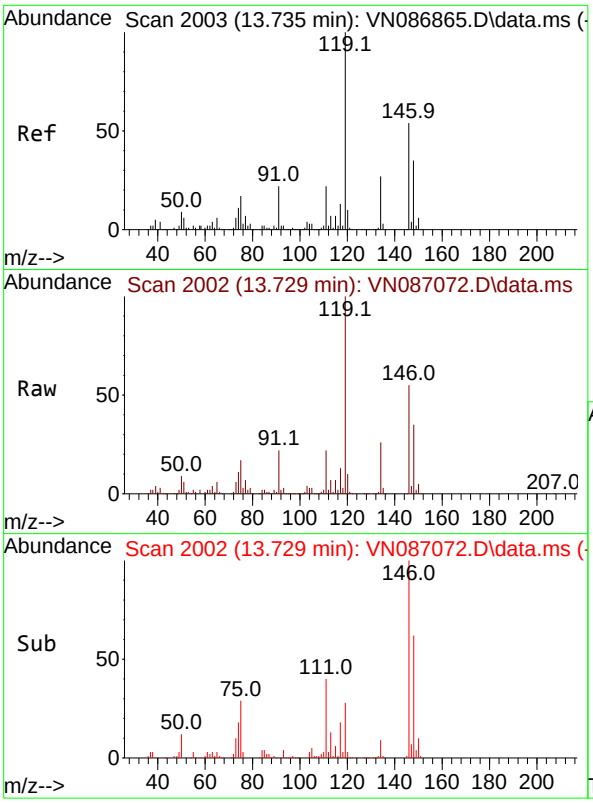


#86
p-Isopropyltoluene
Concen: 44.952 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:119 Resp: 390433

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.5	40.4
91	21.9	11.5	34.4

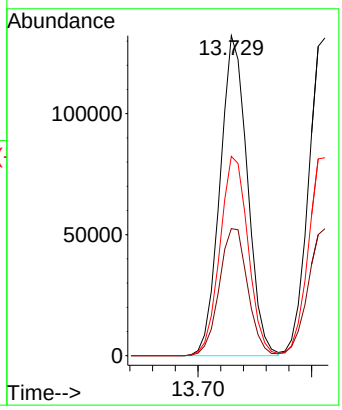




#87
1,3-Dichlorobenzene
Concen: 51.207 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:146 Resp: 22119

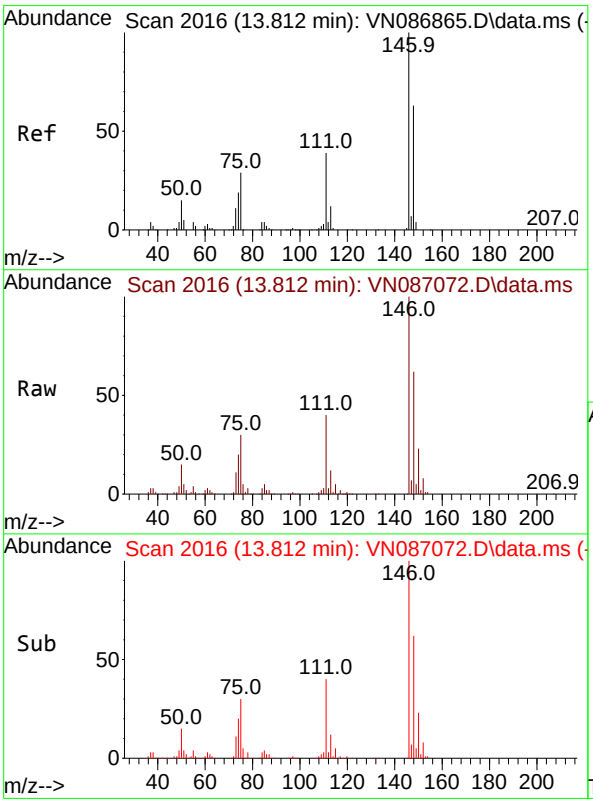
Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.9	62.8
148	64.1	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

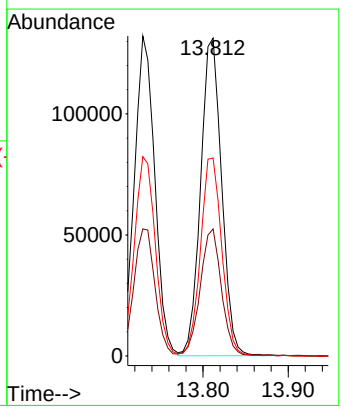
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

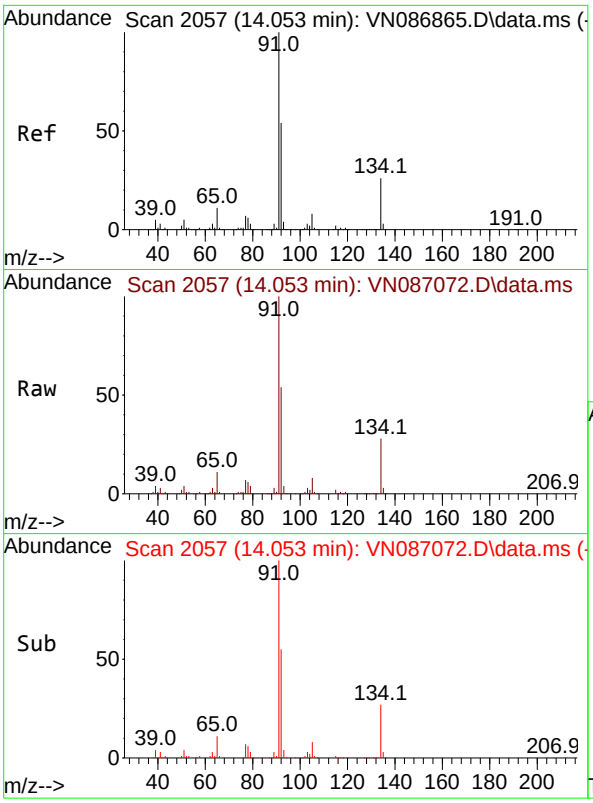


#88
1,4-Dichlorobenzene
Concen: 51.077 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:146 Resp: 224947

Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.9	59.7
148	63.3	31.8	95.4





#89
n-Butylbenzene
Concen: 40.215 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

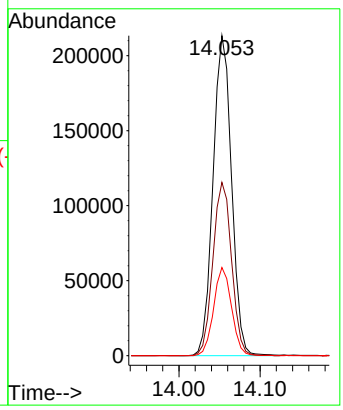
Tgt Ion: 91 Resp: 33832

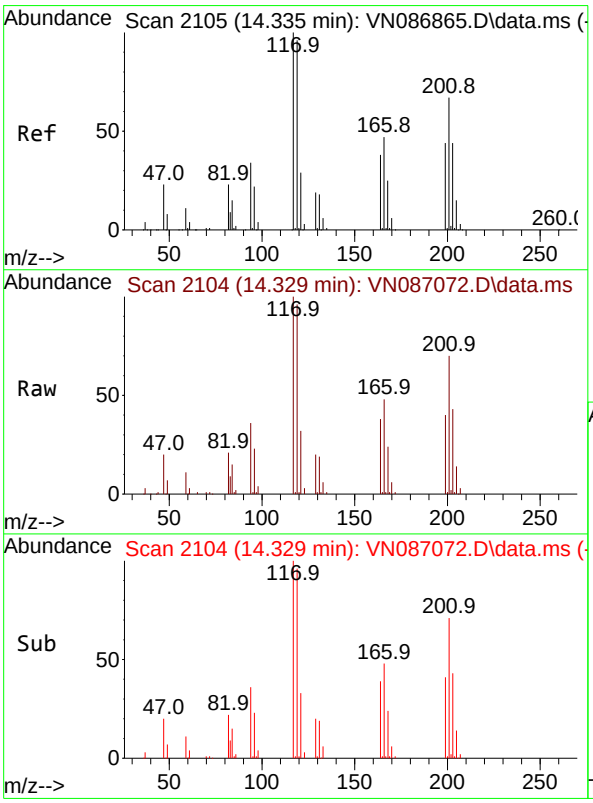
Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.5	82.4
134	26.6	13.0	39.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

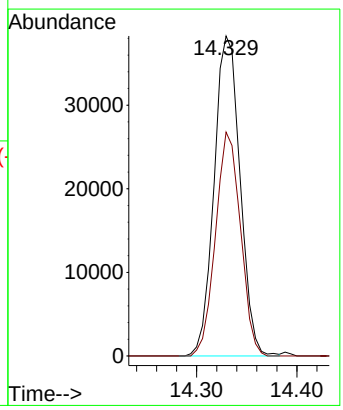


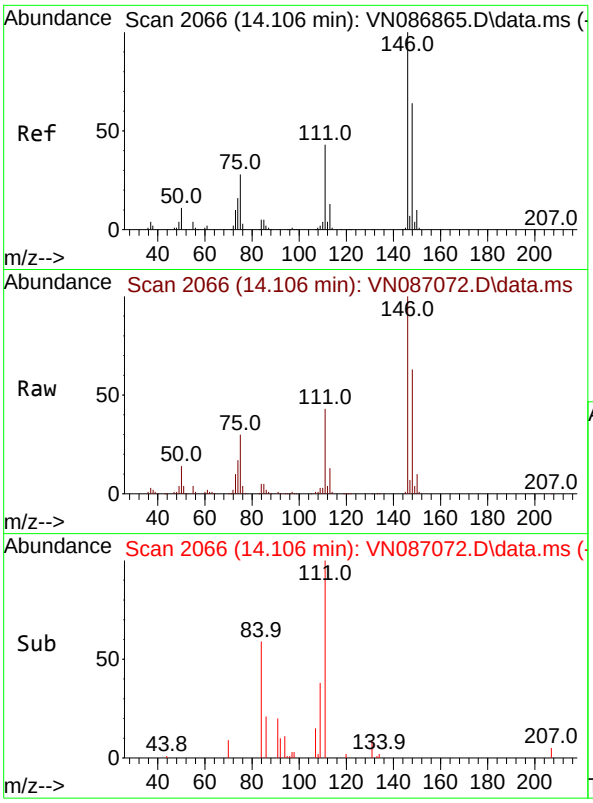


#90
Hexachloroethane
Concen: 46.741 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:117 Resp: 68814

Ion	Ratio	Lower	Upper
117	100		
201	67.2	33.2	99.6

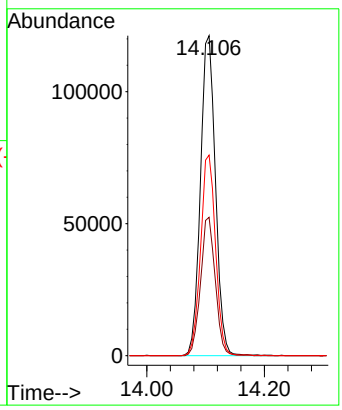




#91
1,2-Dichlorobenzene
Concen: 51.826 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:146 Resp: 21508

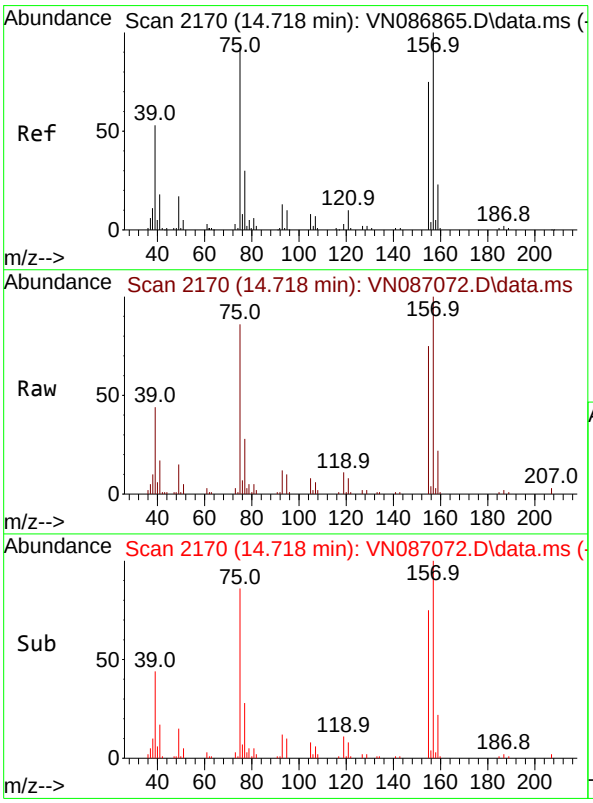
Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.6	64.6
148	62.5	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

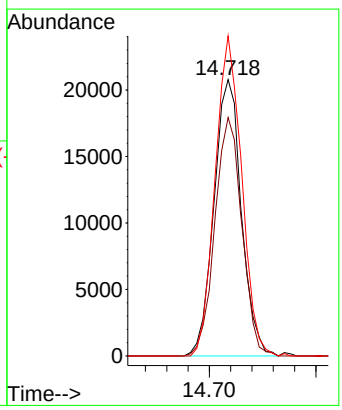
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

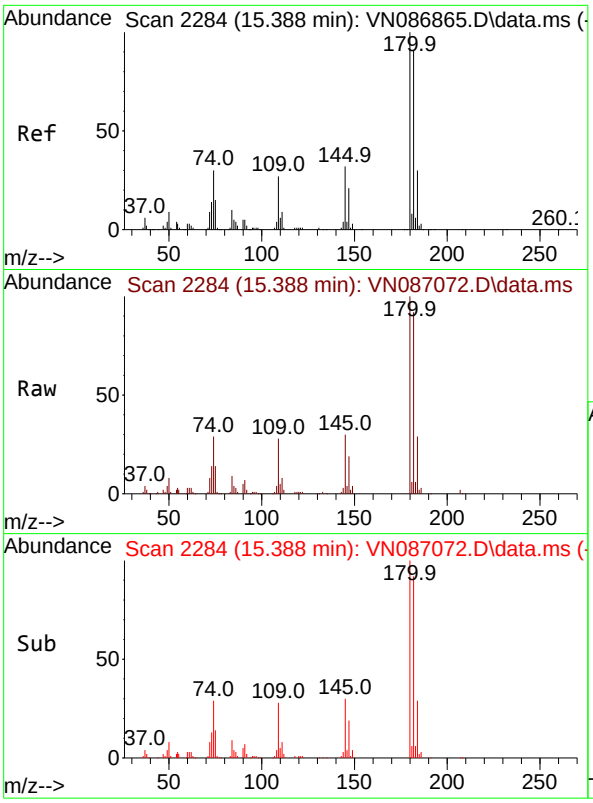


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.831 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 75 Resp: 37100

Ion	Ratio	Lower	Upper
75	100		
155	84.9	41.1	123.4
157	112.0	52.7	158.1

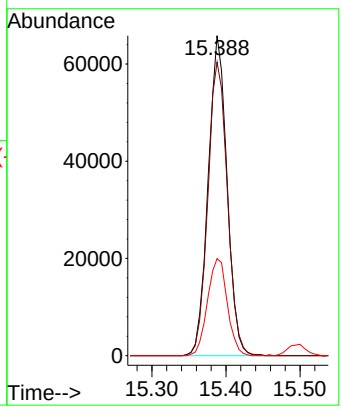




#93
1,2,4-Trichlorobenzene
Concen: 43.863 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:180 Resp: 11624

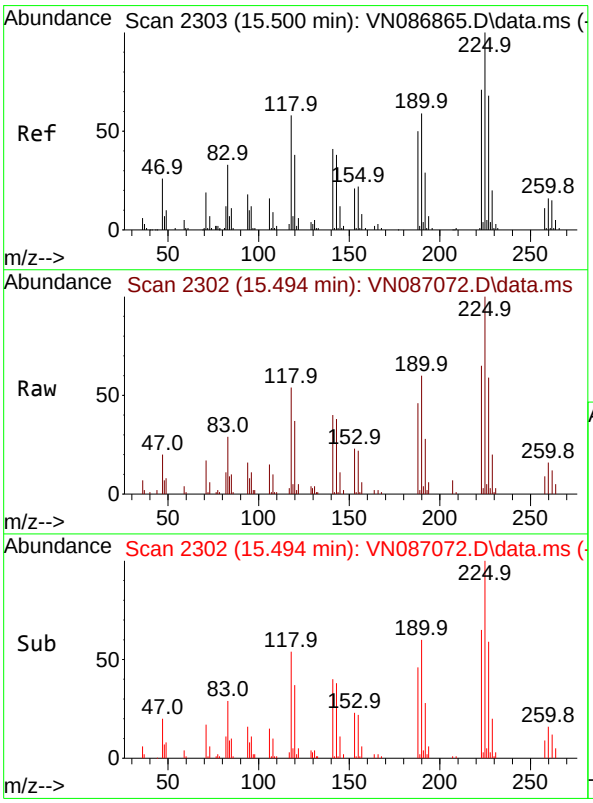
Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.9	140.7
145	31.8	16.0	47.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

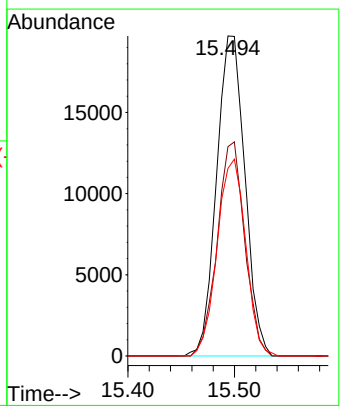
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

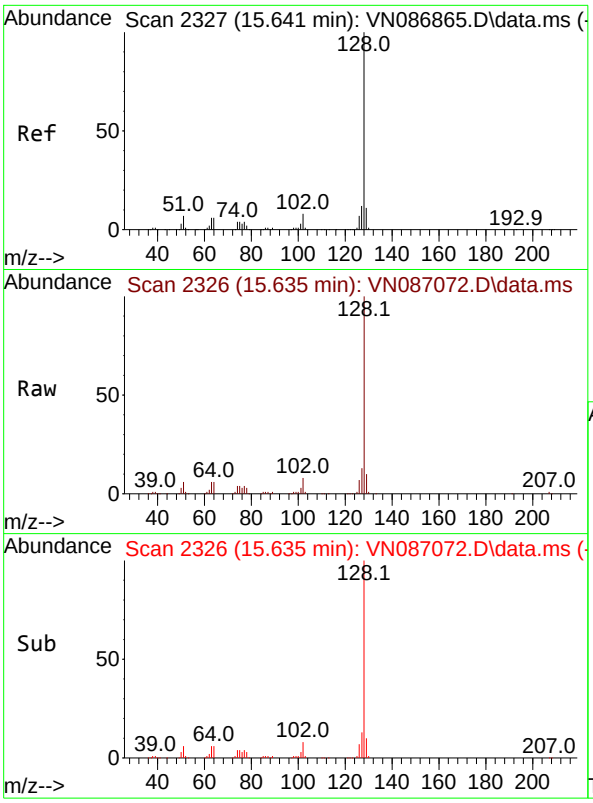


#94
Hexachlorobutadiene
Concen: 36.928 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:225 Resp: 36461

Ion	Ratio	Lower	Upper
225	100		
223	64.9	33.5	100.4
227	61.8	31.1	93.5

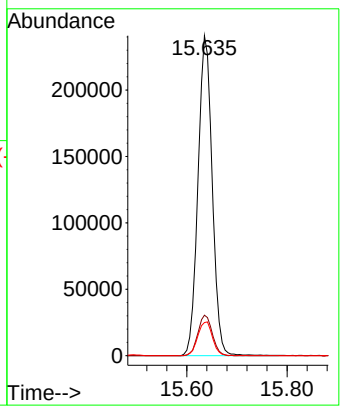




#95
Naphthalene
Concen: 48.124 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:128 Resp: 47470

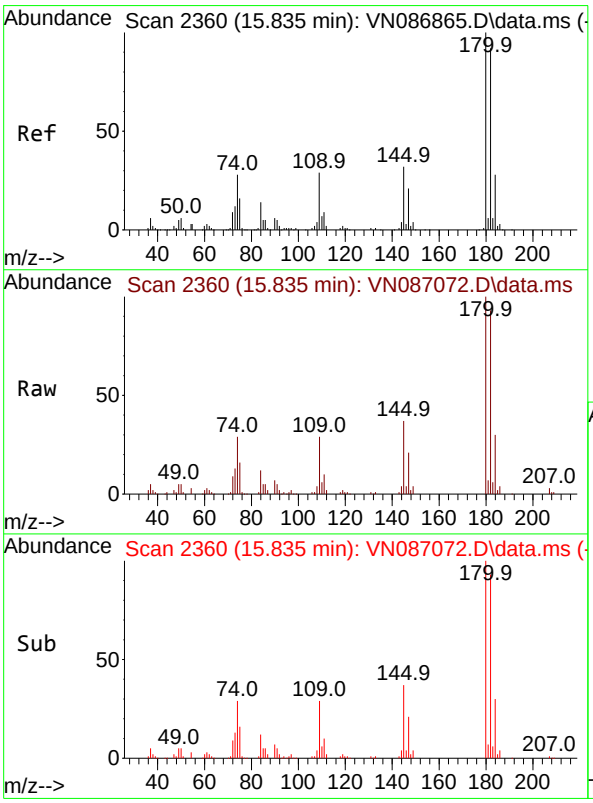
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

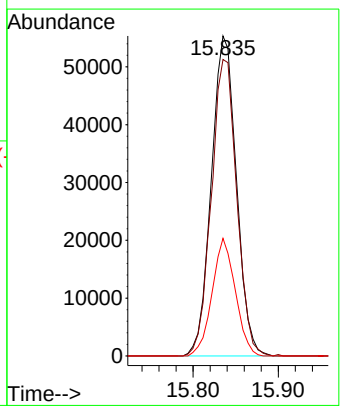
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 42.984 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:180 Resp: 113176

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.0	141.0
145	34.1	16.6	49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	81	0.00
2	T	Dichlorodifluoromethane	0.499	0.522	-4.6	84	0.00
3	P	Chloromethane	0.644	0.570	11.5	77	0.00
4	C	Vinyl Chloride	0.664	0.724	-9.0#	91	0.00
5	T	Bromomethane	0.372	0.372	0.0	84	0.00
6	T	Chloroethane	0.429	0.461	-7.5	91	0.00
7	T	Trichlorofluoromethane	0.868	0.926	-6.7	90	0.00
8	T	Diethyl Ether	0.378	0.399	-5.6	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.545	0.565	-3.7	88	0.00
10	T	Methyl Iodide	0.707	0.465	34.2#	55	0.00
11	T	Tert butyl alcohol	0.182	0.164	9.9	75	-0.01
12	CM	1,1-Dichloroethene	0.557	0.599	-7.5#	91	0.01
13	T	Acrolein	0.057	0.091	-59.6#	161#	0.00
14	T	Allyl chloride	0.923	0.860	6.8	80	0.00
15	T	Acrylonitrile	0.425	0.413	2.8	82	0.00
16	T	Acetone	0.355	0.310	12.7	78	0.00
17	T	Carbon Disulfide	1.539	1.729	-12.3	98	0.01
18	T	Methyl Acetate	1.035	0.857	17.2	70	0.00
19	T	Methyl tert-butyl Ether	2.015	2.049	-1.7	86	0.00
20	T	Methylene Chloride	0.665	0.668	-0.5	89	0.00
21	T	trans-1,2-Dichloroethene	0.619	0.637	-2.9	91	0.00
22	T	Diisopropyl ether	1.945	1.852	4.8	81	0.00
23	T	Vinyl Acetate	1.644	1.644	0.0	84	0.00
24	P	1,1-Dichloroethane	1.120	1.150	-2.7	87	0.00
25	T	2-Butanone	0.577	0.516	10.6	76	0.00
26	T	2,2-Dichloropropane	0.871	0.860	1.3	77	0.00
27	T	cis-1,2-Dichloroethene	0.740	0.774	-4.6	90	0.00
28	T	Bromochloromethane	0.550	0.472	14.2	82	0.00
29	T	Tetrahydrofuran	0.376	0.341	9.3	77	0.00
30	C	Chloroform	1.118	1.142	-2.1#	87	0.00
31	T	Cyclohexane	1.086	0.996	8.3	80	0.00
32	T	1,1,1-Trichloroethane	0.951	0.961	-1.1	87	0.00
33	S	1,2-Dichloroethane-d4	0.669	0.576	13.9	93	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
35	S	Dibromofluoromethane	0.296	0.279	5.7	103	0.00
36	T	1,1-Dichloropropene	0.442	0.462	-4.5	89	0.00
37	T	Ethyl Acetate	0.562	0.541	3.7	81	0.00
38	T	Carbon Tetrachloride	0.433	0.449	-3.7	89	0.00
39	T	Methylcyclohexane	0.605	0.525	13.2	74	0.00
40	TM	Benzene	1.444	1.486	-2.9	89	0.00
41	T	Methacrylonitrile	0.316	0.282	10.8	75	0.00
42	TM	1,2-Dichloroethane	0.438	0.437	0.2	86	0.00
43	T	Isopropyl Acetate	0.902	0.826	8.4	78	0.00
44	TM	Trichloroethene	0.342	0.363	-6.1	90	0.00
45	C	1,2-Dichloropropane	0.351	0.361	-2.8#	88	0.00
46	T	Dibromomethane	0.233	0.251	-7.7	92	0.00
47	T	Bromodichloromethane	0.480	0.486	-1.3	86	0.00
48	T	Methyl methacrylate	0.415	0.378	8.9	78	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.008	0.008	0.0	80	0.00
50	S	Toluene-d8	1.173	1.030	12.2	97	0.00
51	T	4-Methyl-2-Pentanone	0.543	0.513	5.5	77	0.00
52	CM	Toluene	0.882	0.916	-3.9#	89	0.00
53	T	t-1,3-Dichloropropene	0.537	0.548	-2.0	85	0.00
54	T	cis-1,3-Dichloropropene	0.574	0.595	-3.7	87	0.00
55	T	1,1,2-Trichloroethane	0.340	0.348	-2.4	87	0.00
56	T	Ethyl methacrylate	0.541	0.568	-5.0	83	0.00
57	T	1,3-Dichloropropane	0.589	0.596	-1.2	86	0.00
58	T	2-Chloroethyl Vinyl ether	0.323	0.310	4.0	91	0.00
59	T	2-Hexanone	0.350	0.341	2.6	75	0.00
60	T	Dibromochloromethane	0.354	0.380	-7.3	90	0.00
61	T	1,2-Dibromoethane	0.348	0.369	-6.0	91	0.00
62	S	4-Bromofluorobenzene	0.436	0.389	10.8	97	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	80	0.00
64	T	Tetrachloroethene	0.316	0.321	-1.6	87	0.00
65	PM	Chlorobenzene	1.103	1.160	-5.2	91	0.00
66	T	1,1,1,2-Tetrachloroethane	0.354	0.377	-6.5	89	0.00
67	C	Ethyl Benzene	1.899	1.932	-1.7#	86	0.00
68	T	m/p-Xylenes	0.727	0.761	-4.7	87	0.00
69	T	o-Xylene	0.696	0.736	-5.7	87	0.00
70	T	Styrene	1.192	1.265	-6.1	87	0.00
71	P	Bromoform	0.263	0.290	-10.3	88	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	0.00
73	T	Isopropylbenzene	3.643	3.620	0.6	83	0.00
74	T	N-amyl acetate	1.273	1.272	0.1	79	0.00
75	P	1,1,2,2-Tetrachloroethane	1.234	1.264	-2.4	84	0.00
76	T	1,2,3-Trichloropropane	1.189	1.048	11.9	70	0.00
77	T	Bromobenzene	0.835	0.890	-6.6	88	0.00
78	T	n-propylbenzene	4.427	4.239	4.2	79	0.00
79	T	2-Chlorotoluene	2.655	2.592	2.4	81	0.00
80	T	1,3,5-Trimethylbenzene	3.007	2.920	2.9	79	0.00
81	T	trans-1,4-Dichloro-2-butene	0.516	0.467	9.5	77	0.00
82	T	4-Chlorotoluene	2.686	2.671	0.6	83	0.00
83	T	tert-Butylbenzene	2.753	2.495	9.4	75	0.00
84	T	1,2,4-Trimethylbenzene	3.016	2.981	1.2	80	0.00
85	T	sec-Butylbenzene	3.998	3.531	11.7	72	0.00
86	T	p-Isopropyltoluene	3.305	2.971	10.1	73	0.00
87	T	1,3-Dichlorobenzene	1.644	1.683	-2.4	85	0.00
88	T	1,4-Dichlorobenzene	1.676	1.712	-2.1	85	0.00
89	T	n-Butylbenzene	3.201	2.575	19.6	66	0.00
90	T	Hexachloroethane	0.560	0.524	6.4	77	0.00
91	T	1,2-Dichlorobenzene	1.579	1.637	-3.7	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.295	0.282	4.4	81	0.00
93	T	1,2,4-Trichlorobenzene	1.008	0.885	12.2	72	0.00
94	T	Hexachlorobutadiene	0.376	0.277	26.3#	60	0.00
95	T	Naphthalene	3.753	3.612	3.8	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	0.861	14.1	71	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	81	0.00
2	T	Dichlorodifluoromethane	50.000	52.318	-4.6	84	0.00
3	P	Chloromethane	50.000	44.264	11.5	77	0.00
4	C	Vinyl Chloride	50.000	54.544	-9.1#	91	0.00
5	T	Bromomethane	50.000	50.045	-0.1	84	0.00
6	T	Chloroethane	50.000	53.756	-7.5	91	0.00
7	T	Trichlorofluoromethane	50.000	53.374	-6.7	90	0.00
8	T	Diethyl Ether	50.000	52.794	-5.6	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.804	-3.6	88	0.00
10	T	Methyl Iodide	50.000	32.907	34.2#	55	0.00
11	T	Tert butyl alcohol	250.000	225.470	9.8	75	-0.01
12	CM	1,1-Dichloroethene	50.000	53.841	-7.7#	91	0.01
13	T	Acrolein	250.000	394.185	-57.7#	161	0.00
14	T	Allyl chloride	50.000	46.587	6.8	80	0.00
15	T	Acrylonitrile	250.000	242.901	2.8	82	0.00
16	T	Acetone	250.000	218.104	12.8	78	0.00
17	T	Carbon Disulfide	50.000	56.169	-12.3	98	0.01
18	T	Methyl Acetate	50.000	41.442	17.1	70	0.00
19	T	Methyl tert-butyl Ether	50.000	50.844	-1.7	86	0.00
20	T	Methylene Chloride	50.000	50.236	-0.5	89	0.00
21	T	trans-1,2-Dichloroethene	50.000	51.471	-2.9	91	0.00
22	T	Diisopropyl ether	50.000	47.606	4.8	81	0.00
23	T	Vinyl Acetate	250.000	250.103	-0.0	84	0.00
24	P	1,1-Dichloroethane	50.000	51.366	-2.7	87	0.00
25	T	2-Butanone	250.000	223.445	10.6	76	0.00
26	T	2,2-Dichloropropane	50.000	49.359	1.3	77	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.279	-4.6	90	0.00
28	T	Bromochloromethane	50.000	42.878	14.2	82	0.00
29	T	Tetrahydrofuran	250.000	226.717	9.3	77	0.00
30	C	Chloroform	50.000	51.071	-2.1#	87	0.00
31	T	Cyclohexane	50.000	45.871	8.3	80	0.00
32	T	1,1,1-Trichloroethane	50.000	50.523	-1.0	87	0.00
33	S	1,2-Dichloroethane-d4	50.000	43.049	13.9	93	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	81	0.00
35	S	Dibromofluoromethane	50.000	47.004	6.0	103	0.00
36	T	1,1-Dichloropropene	50.000	52.347	-4.7	89	0.00
37	T	Ethyl Acetate	50.000	48.087	3.8	81	0.00
38	T	Carbon Tetrachloride	50.000	51.827	-3.7	89	0.00
39	T	Methylcyclohexane	50.000	43.354	13.3	74	0.00
40	TM	Benzene	50.000	51.459	-2.9	89	0.00
41	T	Methacrylonitrile	50.000	44.676	10.6	75	0.00
42	TM	1,2-Dichloroethane	50.000	49.844	0.3	86	0.00
43	T	Isopropyl Acetate	50.000	45.798	8.4	78	0.00
44	TM	Trichloroethene	50.000	52.953	-5.9	90	0.00
45	C	1,2-Dichloropropane	50.000	51.342	-2.7#	88	0.00
46	T	Dibromomethane	50.000	53.815	-7.6	92	0.00
47	T	Bromodichloromethane	50.000	50.600	-1.2	86	0.00
48	T	Methyl methacrylate	50.000	45.478	9.0	78	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1023.116	-2.3	80	0.00
50	S	Toluene-d8	50.000	43.912	12.2	97	0.00
51	T	4-Methyl-2-Pentanone	250.000	236.369	5.5	77	0.00
52	CM	Toluene	50.000	51.889	-3.8#	89	0.00
53	T	t-1,3-Dichloropropene	50.000	51.076	-2.2	85	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.826	-3.7	87	0.00
55	T	1,1,2-Trichloroethane	50.000	51.266	-2.5	87	0.00
56	T	Ethyl methacrylate	50.000	52.544	-5.1	83	0.00
57	T	1,3-Dichloropropane	50.000	50.593	-1.2	86	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	239.927	4.0	91	0.00
59	T	2-Hexanone	250.000	243.662	2.5	75	0.00
60	T	Dibromochloromethane	50.000	53.772	-7.5	90	0.00
61	T	1,2-Dibromoethane	50.000	52.979	-6.0	91	0.00
62	S	4-Bromofluorobenzene	50.000	44.575	10.8	97	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	80	0.00
64	T	Tetrachloroethene	50.000	50.712	-1.4	87	0.00
65	PM	Chlorobenzene	50.000	52.609	-5.2	91	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	53.179	-6.4	89	0.00
67	C	Ethyl Benzene	50.000	50.862	-1.7#	86	0.00
68	T	m/p-Xylenes	100.000	104.697	-4.7	87	0.00
69	T	o-Xylene	50.000	52.832	-5.7	87	0.00
70	T	Styrene	50.000	53.066	-6.1	87	0.00
71	P	Bromoform	50.000	55.239	-10.5	88	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	78	0.00
73	T	Isopropylbenzene	50.000	49.691	0.6	83	0.00
74	T	N-amyl acetate	50.000	49.973	0.1	79	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.233	-2.5	84	0.00
76	T	1,2,3-Trichloropropane	50.000	44.072	11.9	70	0.00
77	T	Bromobenzene	50.000	53.296	-6.6	88	0.00
78	T	n-propylbenzene	50.000	47.881	4.2	79	0.00
79	T	2-Chlorotoluene	50.000	48.823	2.4	81	0.00
80	T	1,3,5-Trimethylbenzene	50.000	48.554	2.9	79	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	45.254	9.5	77	0.00
82	T	4-Chlorotoluene	50.000	49.722	0.6	83	0.00
83	T	tert-Butylbenzene	50.000	45.308	9.4	75	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.418	1.2	80	0.00
85	T	sec-Butylbenzene	50.000	44.163	11.7	72	0.00
86	T	p-Isopropyltoluene	50.000	44.952	10.1	73	0.00
87	T	1,3-Dichlorobenzene	50.000	51.207	-2.4	85	0.00
88	T	1,4-Dichlorobenzene	50.000	51.077	-2.2	85	0.00
89	T	n-Butylbenzene	50.000	40.215	19.6	66	0.00
90	T	Hexachloroethane	50.000	46.741	6.5	77	0.00
91	T	1,2-Dichlorobenzene	50.000	51.826	-3.7	86	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.831	4.3	81	0.00
93	T	1,2,4-Trichlorobenzene	50.000	43.863	12.3	72	0.00
94	T	Hexachlorobutadiene	50.000	36.928	26.1#	60	0.00
95	T	Naphthalene	50.000	48.124	3.8	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	42.984	14.0	71	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date/Time: 06/18/2025 10:21

Lab File ID: VN087074.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.499	0.516		3.41	20
Chloromethane	0.644	0.551	0.1	-14.44	20
Vinyl Chloride	0.664	0.705		6.18	20
Bromomethane	0.372	0.373		0.27	20
Chloroethane	0.429	0.449		4.66	20
Trichlorofluoromethane	0.868	0.904		4.15	20
1,1,2-Trichlorotrifluoroethane	0.545	0.568		4.22	20
1,1-Dichloroethene	0.557	0.578		3.77	20
Acetone	0.355	0.348		-1.97	20
Carbon Disulfide	1.539	1.665		8.19	20
Methyl tert-butyl Ether	2.015	1.968		-2.33	20
Methyl Acetate	1.035	0.810		-21.74	20
Methylene Chloride	0.665	0.647		-2.71	20
trans-1,2-Dichloroethene	0.619	0.624		0.81	20
1,1-Dichloroethane	1.120	1.103	0.1	-1.52	20
Cyclohexane	1.086	0.982		-9.58	20
2-Butanone	0.577	0.489		-15.25	20
Carbon Tetrachloride	0.433	0.450		3.93	20
cis-1,2-Dichloroethene	0.740	0.736		-0.54	20
Bromochloromethane	0.550	0.488		-11.27	20
Chloroform	1.118	1.081		-3.31	20
1,1,1-Trichloroethane	0.951	0.924		-2.84	20
Methylcyclohexane	0.605	0.545		-9.92	20
Benzene	1.444	1.468		1.66	20
1,2-Dichloroethane	0.438	0.435		-0.69	20
Trichloroethene	0.342	0.365		6.72	20
1,2-Dichloropropane	0.351	0.360		2.56	20
Bromodichloromethane	0.480	0.491		2.29	20
4-Methyl-2-Pentanone	0.543	0.504		-7.18	20
Toluene	0.882	0.913		3.52	20
t-1,3-Dichloropropene	0.537	0.563		4.84	20
cis-1,3-Dichloropropene	0.574	0.605		5.4	20
1,1,2-Trichloroethane	0.340	0.346		1.76	20
2-Hexanone	0.350	0.340		-2.86	20
Dibromochloromethane	0.354	0.375		5.93	20
1,2-Dibromoethane	0.348	0.363		4.31	20
Tetrachloroethene	0.316	0.325		2.85	20
Chlorobenzene	1.103	1.139	0.3	3.26	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date/Time: 06/18/2025 10:21

Lab File ID: VN087074.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.900	1.933		1.74	20
m/p-Xylenes	0.727	0.764		5.09	20
o-Xylene	0.696	0.732		5.17	20
Styrene	1.192	1.262		5.87	20
Bromoform	0.263	0.290	0.1	10.27	20
Isopropylbenzene	3.643	3.597		-1.26	20
1,1,2,2-Tetrachloroethane	1.234	1.231	0.3	-0.24	20
1,3-Dichlorobenzene	1.644	1.705		3.71	20
1,4-Dichlorobenzene	1.676	1.723		2.8	20
1,2-Dichlorobenzene	1.579	1.614		2.22	20
1,2-Dibromo-3-Chloropropane	0.295	0.276		-6.44	20
1,2,4-Trichlorobenzene	1.008	0.900		-10.71	20
1,2,3-Trichlorobenzene	1.002	0.863		-13.87	20
1,2-Dichloroethane-d4	0.669	0.621		-7.18	20
Dibromofluoromethane	0.296	0.316		6.76	20
Toluene-d8	1.173	1.162		-0.94	20
4-Bromofluorobenzene	0.436	0.447		2.52	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_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	217200	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	377846	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330017	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	164001	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	134796	46.352	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.700%			
35) Dibromofluoromethane	8.177	113	119311	53.283	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.560%			
50) Toluene-d8	10.565	98	439174	49.543	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.080%			
62) 4-Bromofluorobenzene	12.847	95	168714	51.228	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	112043	51.737	ug/l	99
3) Chloromethane	2.395	50	119690	42.800	ug/l	98
4) Vinyl Chloride	2.553	62	153199	53.107	ug/l	100
5) Bromomethane	2.989	94	81040	50.200	ug/l	92
6) Chloroethane	3.153	64	97432	52.288	ug/l	96
7) Trichlorofluoromethane	3.530	101	196353	52.096	ug/l	99
8) Diethyl Ether	3.983	74	82789	50.415	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.394	101	123329	52.082	ug/l	99
10) Methyl Iodide	4.618	142	108696	35.410	ug/l	97
11) Tert butyl alcohol	5.536	59	166122	210.527	ug/l	100
12) 1,1-Dichloroethene	4.365	96	125476	51.903	ug/l	94
13) Acrolein	4.206	56	40962	163.999	ug/l	99
14) Allyl chloride	5.047	41	180796	45.094	ug/l	95
15) Acrylonitrile	5.736	53	422547	229.103	ug/l	99
16) Acetone	4.441	43	378344	245.332	ug/l	97
17) Carbon Disulfide	4.736	76	361644	54.081	ug/l	100
18) Methyl Acetate	5.047	43	175895	39.139	ug/l	97
19) Methyl tert-butyl Ether	5.818	73	427520	48.841	ug/l	100
20) Methylene Chloride	5.300	84	140573	48.688	ug/l	94
21) trans-1,2-Dichloroethene	5.806	96	135523	50.386	ug/l	92
22) Diisopropyl ether	6.688	45	385594	45.626	ug/l	95
23) Vinyl Acetate	6.618	43	1694540	237.318	ug/l	98
24) 1,1-Dichloroethane	6.583	63	239648	49.275	ug/l	97
25) 2-Butanone	7.488	43	531419	211.995	ug/l	94
26) 2,2-Dichloropropane	7.500	77	210034	55.517	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	159887	49.705	ug/l	98
28) Bromochloromethane	7.824	49	105918	44.293	ug/l	92
29) Tetrahydrofuran	7.847	42	345560	211.614	ug/l	95
30) Chloroform	7.977	83	234823	48.348	ug/l	99
31) Cyclohexane	8.265	56	213255	45.214	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	200791	48.606	ug/l	97
36) 1,1-Dichloropropene	8.377	75	176467	52.888	ug/l	99
37) Ethyl Acetate	7.571	43	200717	47.255	ug/l	99
38) Carbon Tetrachloride	8.371	117	170212	51.960	ug/l	98
39) Methylcyclohexane	9.606	83	206075	45.080	ug/l	95
40) Benzene	8.612	78	554750	50.844	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	105242	44.118	ug/l		93
42) 1,2-Dichloroethane	8.677	62	164239	49.628	ug/l		99
43) Isopropyl Acetate	8.694	43	308186	45.206	ug/l		95
44) Trichloroethene	9.359	130	138049	53.359	ug/l		99
45) 1,2-Dichloropropane	9.623	63	136071	51.261	ug/l		97
46) Dibromomethane	9.712	93	93780	53.189	ug/l		100
47) Bromodichloromethane	9.888	83	185449	51.121	ug/l		98
48) Methyl methacrylate	9.682	41	143772	45.820	ug/l		94
49) 1,4-Dioxane	9.706	88	54618	956.815	ug/l	#	97
51) 4-Methyl-2-Pentanone	10.447	43	952300	232.037	ug/l		97
52) Toluene	10.629	92	344814	51.712	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	212676	52.430	ug/l		100
54) cis-1,3-Dichloropropene	10.312	75	228528	52.653	ug/l		96
55) 1,1,2-Trichloroethane	11.018	97	130864	51.005	ug/l		97
56) Ethyl methacrylate	10.876	69	218942	53.576	ug/l		93
57) 1,3-Dichloropropane	11.165	76	224646	50.473	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	571062	234.289	ug/l		98
59) 2-Hexanone	11.200	43	642002	242.852	ug/l		92
60) Dibromochloromethane	11.359	129	141610	52.974	ug/l		99
61) 1,2-Dibromoethane	11.470	107	137281	52.202	ug/l		99
64) Tetrachloroethene	11.106	164	107143	51.300	ug/l		96
65) Chlorobenzene	11.888	112	375806	51.632	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.959	131	121849	52.079	ug/l		98
67) Ethyl Benzene	11.965	91	637921	50.882	ug/l		99
68) m/p-Xylenes	12.070	106	503996	105.015	ug/l		99
69) o-Xylene	12.394	106	241725	52.589	ug/l		98
70) Styrene	12.412	104	416344	52.934	ug/l		99
71) Bromoform	12.576	173	95724	55.217	ug/l	#	98
73) Isopropylbenzene	12.694	105	589954	49.378	ug/l		99
74) N-amyl acetate	12.512	43	185811	44.506	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.935	83	201817	49.861	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	169002m	43.352	ug/l		
77) Bromobenzene	12.976	156	145188	52.988	ug/l		96
78) n-propylbenzene	13.035	91	704268	48.505	ug/l		99
79) 2-Chlorotoluene	13.123	91	427130	49.053	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	489295	49.603	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	81640m	48.208	ug/l		
82) 4-Chlorotoluene	13.217	91	443322	50.317	ug/l		99
83) tert-Butylbenzene	13.435	119	411961	45.624	ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	495408	50.084	ug/l		99
85) sec-Butylbenzene	13.611	105	590317	45.019	ug/l		100
86) p-Isopropyltoluene	13.729	119	502465	46.356	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	279631	51.871	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	282492	51.398	ug/l		99
89) n-Butylbenzene	14.053	91	437343	41.655	ug/l		99
90) Hexachloroethane	14.329	117	87508	47.628	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	264771	51.121	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	45316	46.814	ug/l		96
93) 1,2,4-Trichlorobenzene	15.388	180	147553	44.615	ug/l		99
94) Hexachlorobutadiene	15.500	225	44448	36.072	ug/l		97
95) Naphthalene	15.635	128	584462	47.478	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	141602	43.093	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

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

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

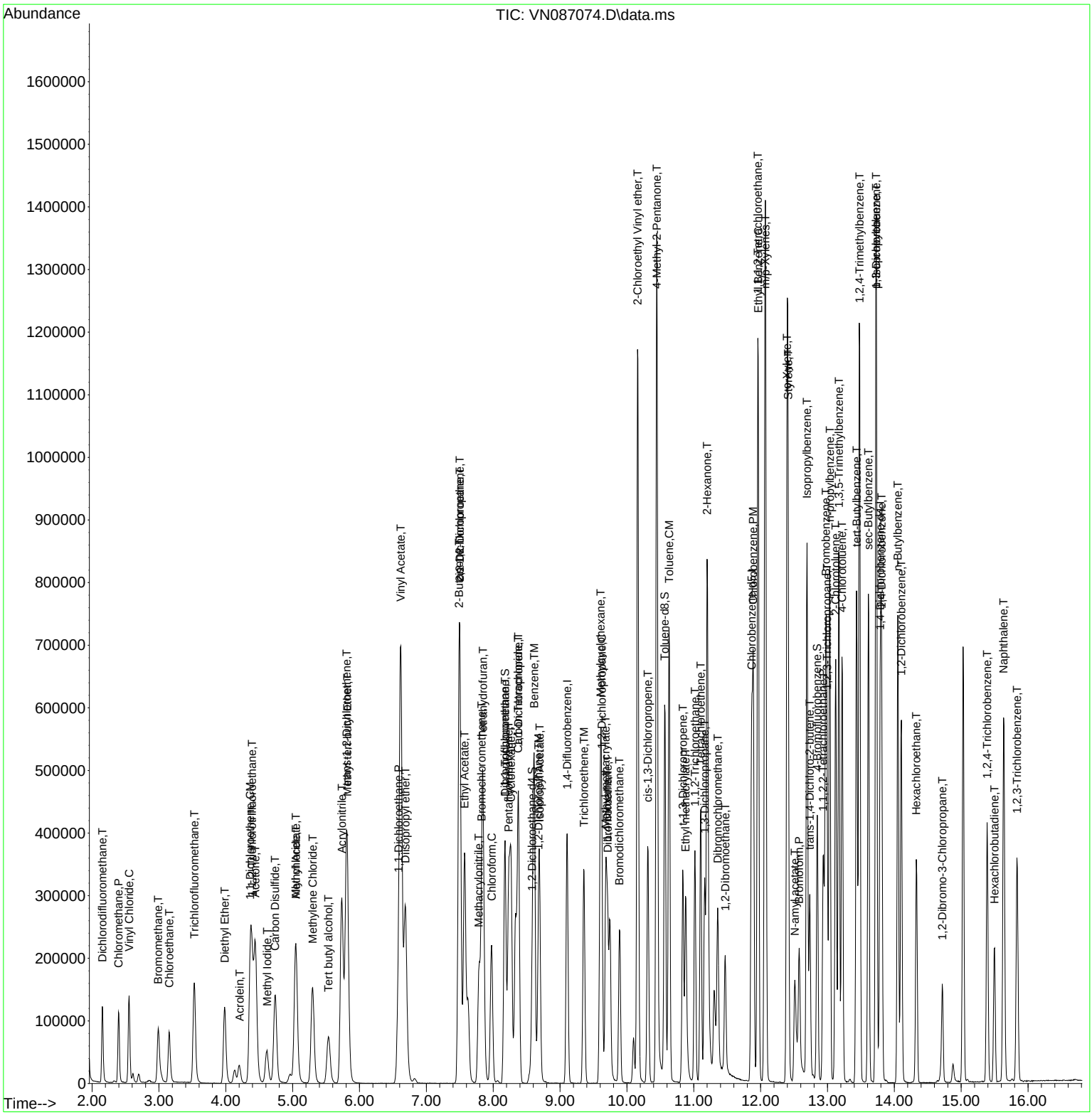
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

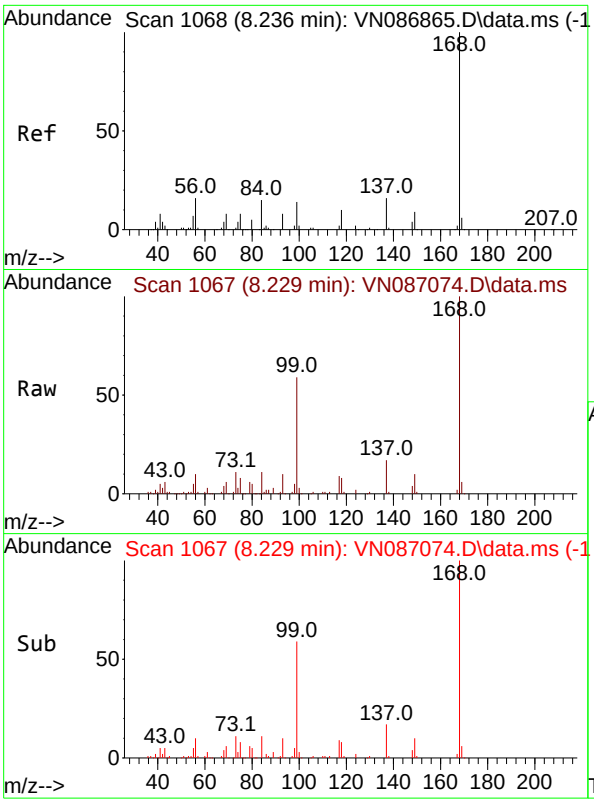
Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

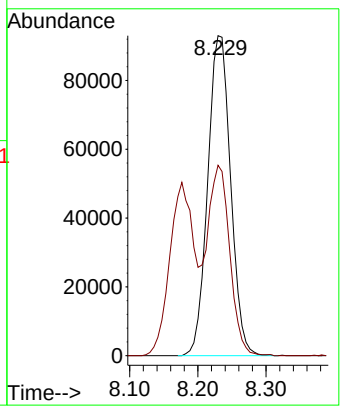




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:168 Resp: 21720

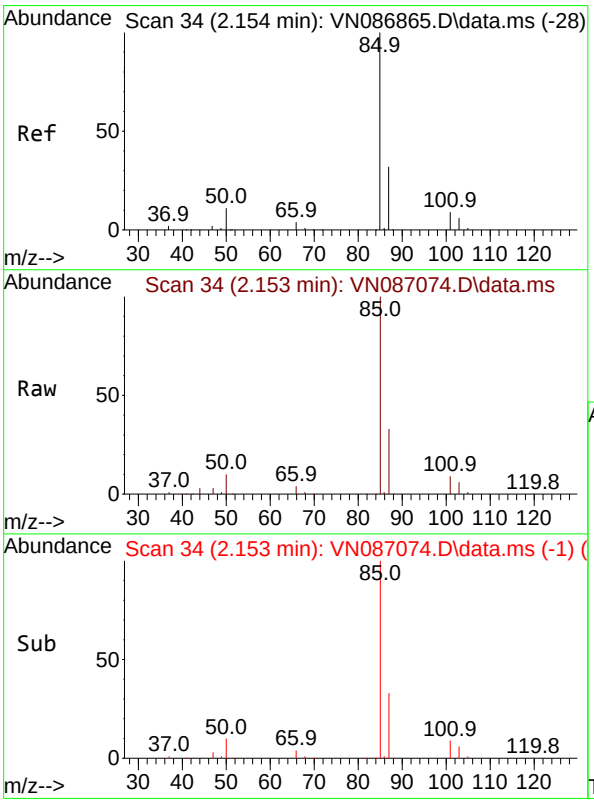
Ion	Ratio	Lower	Upper
168	100		
99	59.5	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

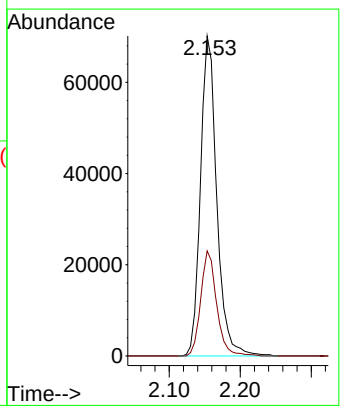
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

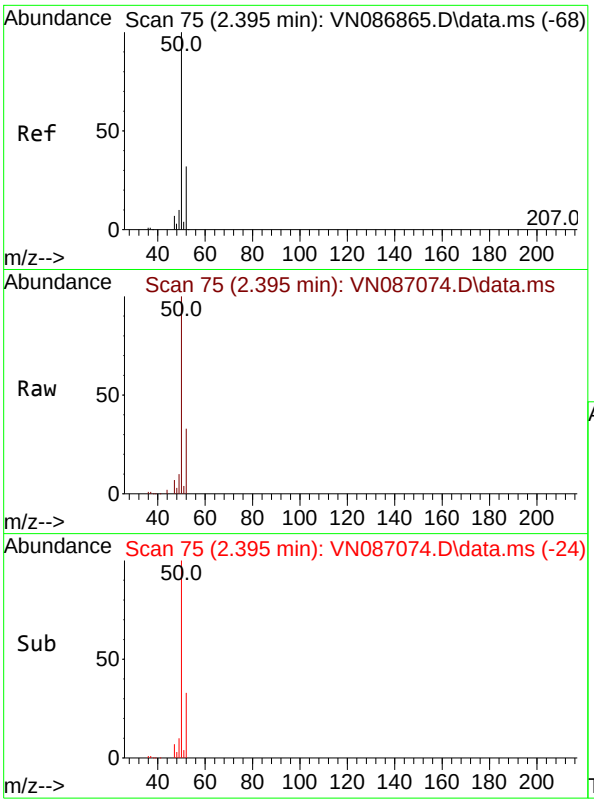


#2
Dichlorodifluoromethane
Concen: 51.737 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 85 Resp: 112043

Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.2	48.6

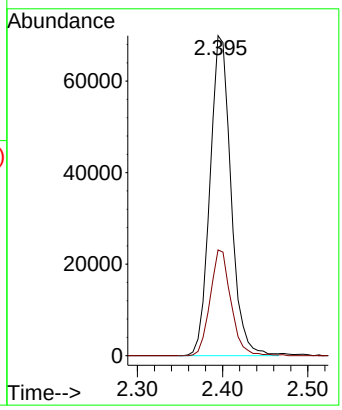




#3
Chloromethane
Concen: 42.800 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 50 Resp: 11969

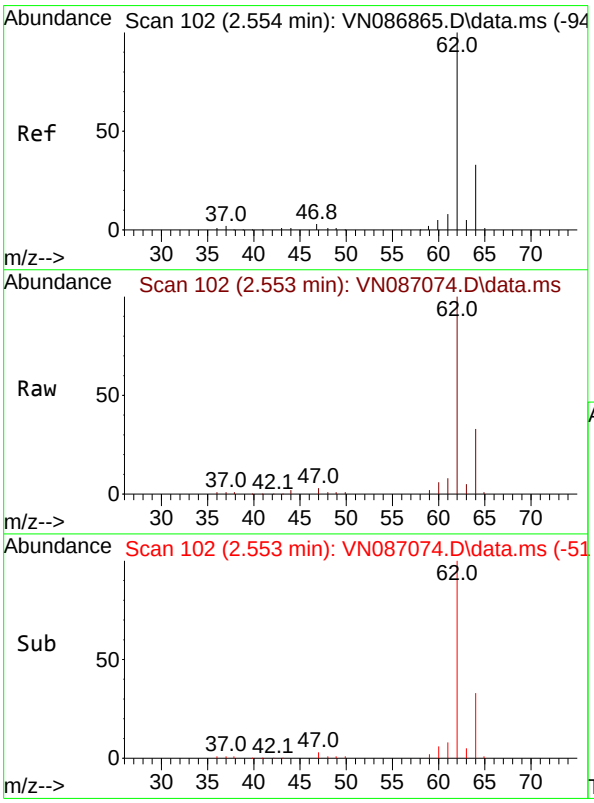
Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

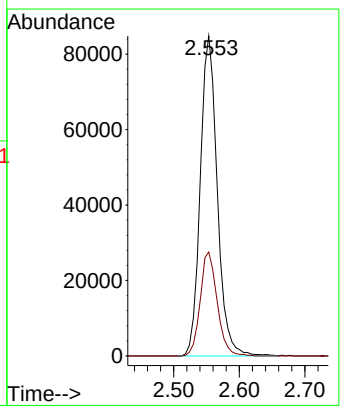
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

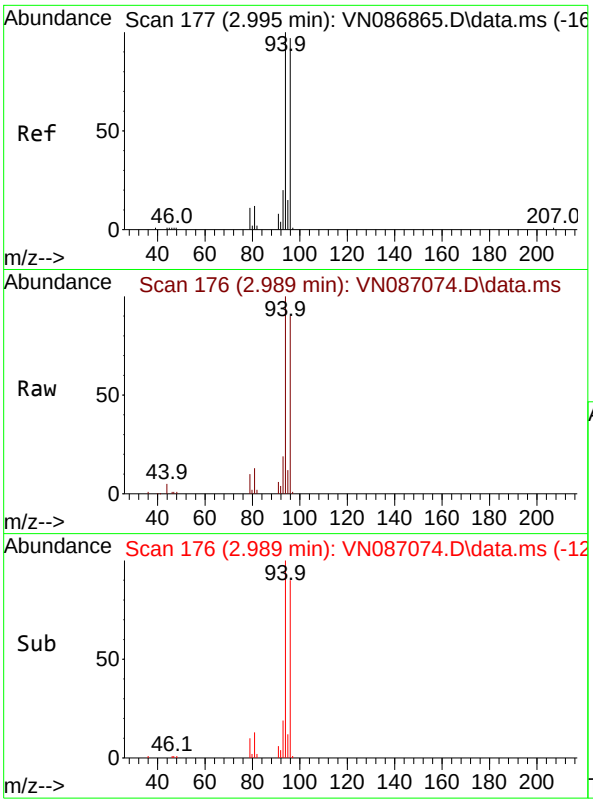


#4
Vinyl Chloride
Concen: 53.107 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 62 Resp: 153199

Ion	Ratio	Lower	Upper
62	100		
64	32.5	26.0	39.0

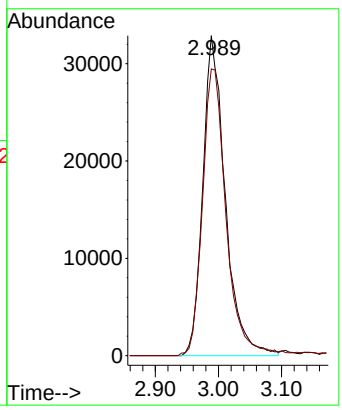




#5
Bromomethane
Concen: 50.200 ug/l
RT: 2.989 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 94 Resp: 8104

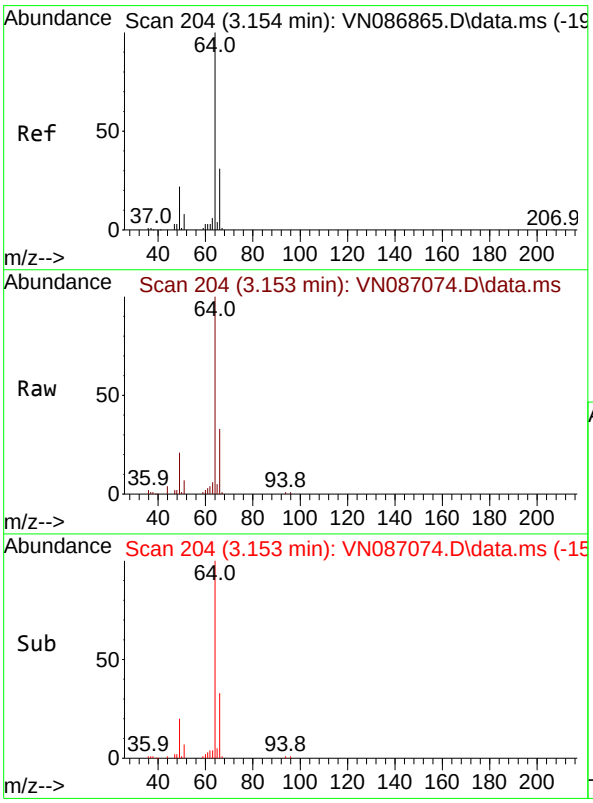
Ion	Ratio	Lower	Upper
94	100		
96	89.6	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

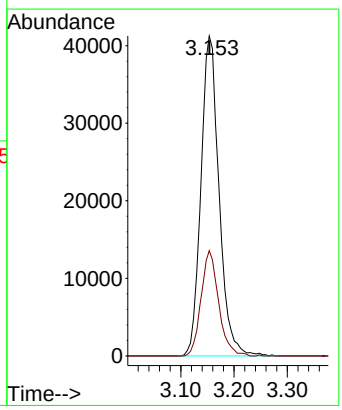
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

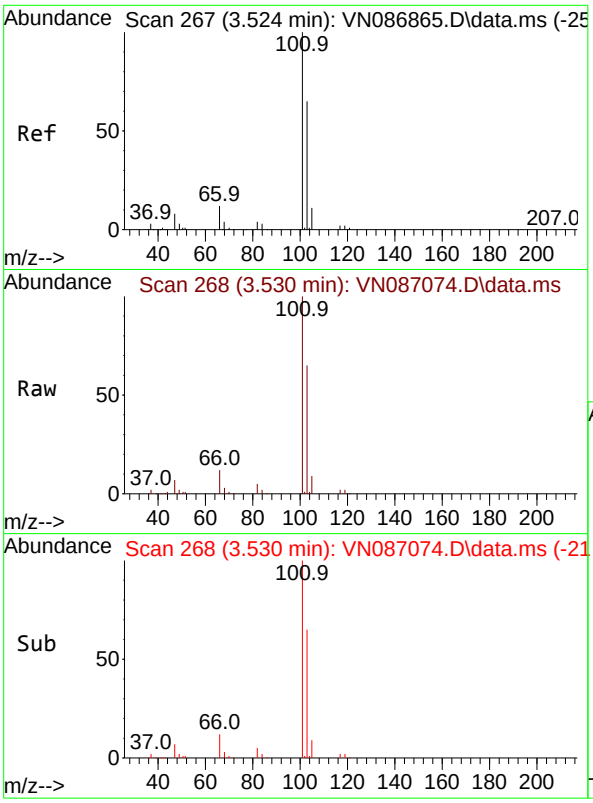


#6
Chloroethane
Concen: 52.288 ug/l
RT: 3.153 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 64 Resp: 97432

Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.6	36.8

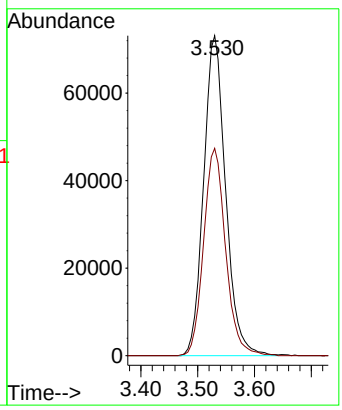




#7
Trichlorofluoromethane
Concen: 52.096 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:101 Resp: 19635

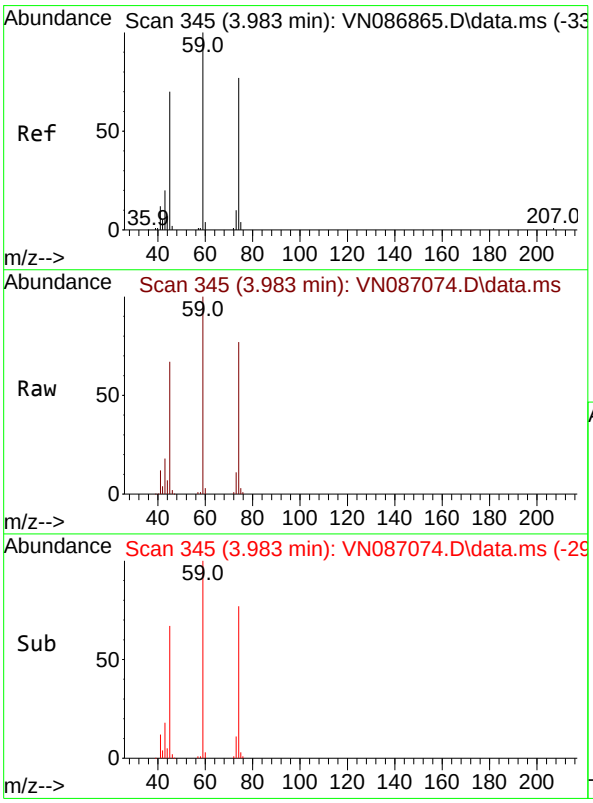
Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.2	78.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

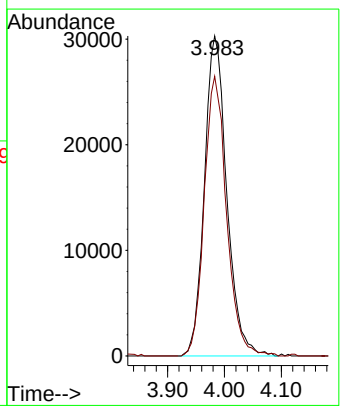
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

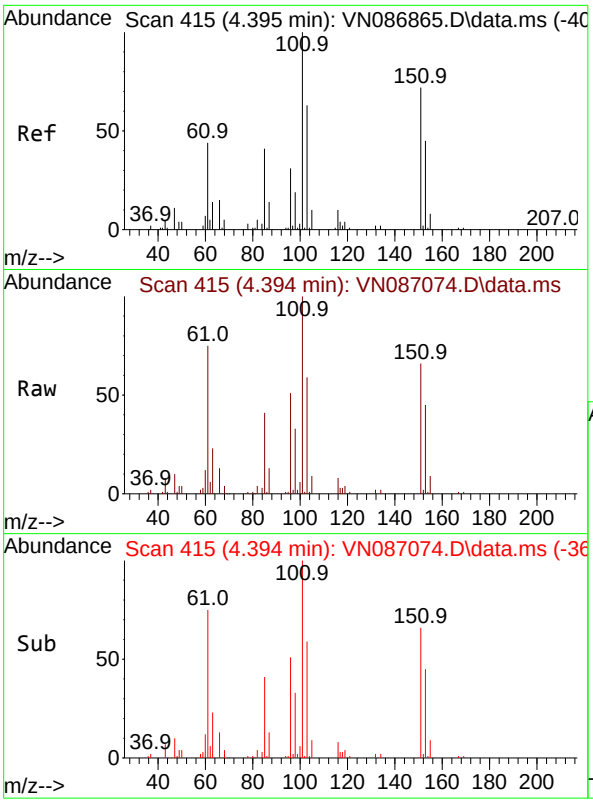


#8
Diethyl Ether
Concen: 50.415 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 74 Resp: 82789

Ion	Ratio	Lower	Upper
74	100		
45	87.4	45.5	136.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.082 ug/l
RT: 4.394 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

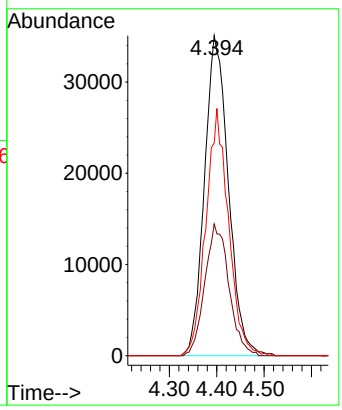
Tgt Ion:101 Resp: 12332

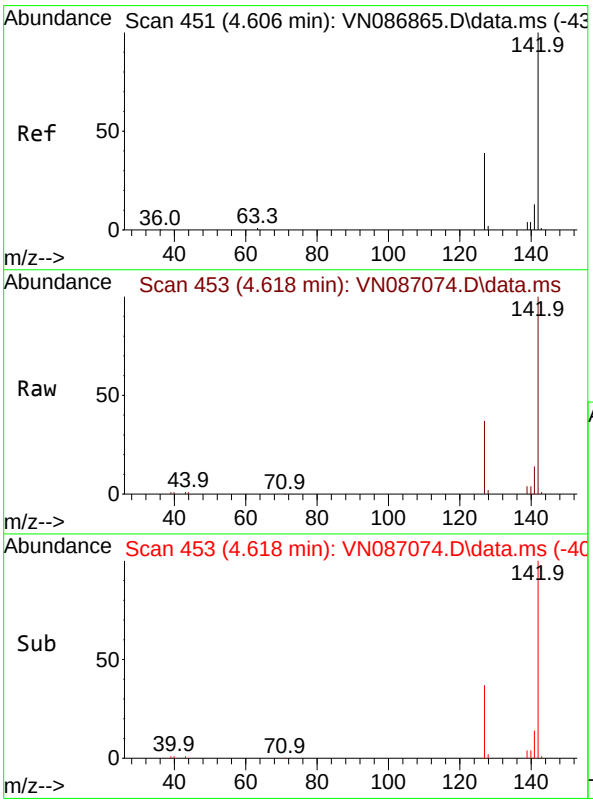
Ion	Ratio	Lower	Upper
101	100		
85	41.2	33.8	50.8
151	73.1	58.7	88.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

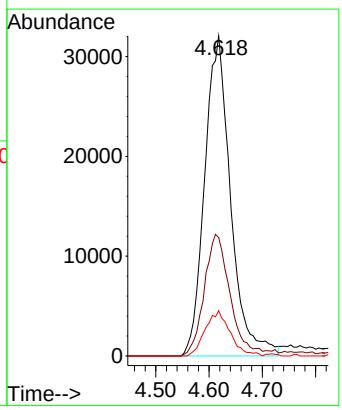


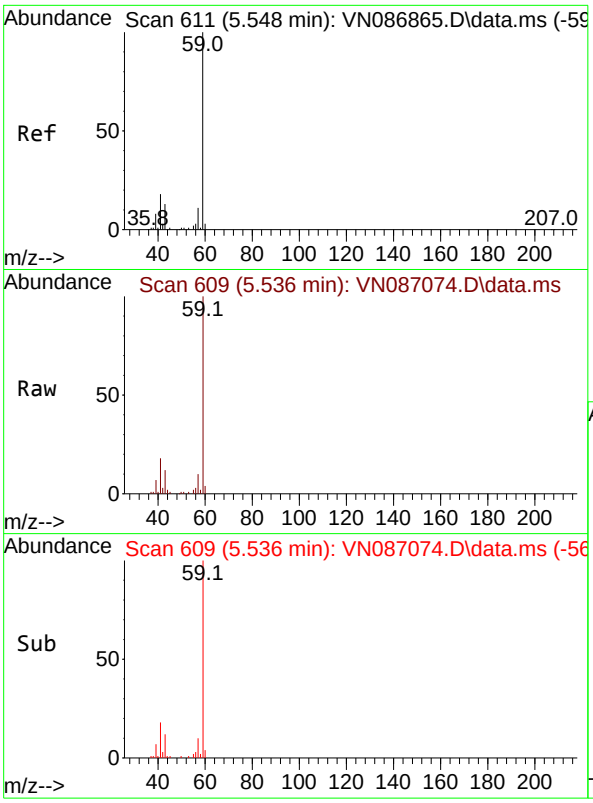


#10
Methyl Iodide
Concen: 35.410 ug/l
RT: 4.618 min Scan# 453
Delta R.T. 0.012 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:142 Resp: 108696

Ion	Ratio	Lower	Upper
142	100		
127	37.0	30.9	46.3
141	14.2	10.4	15.6

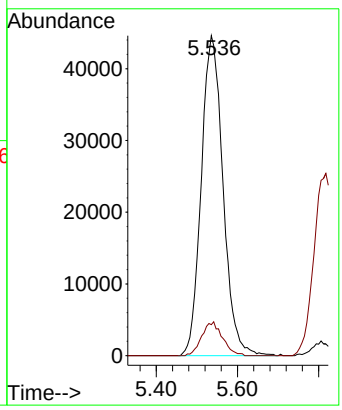




#11
Tert butyl alcohol
Concen: 210.527 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 59 Resp: 16612

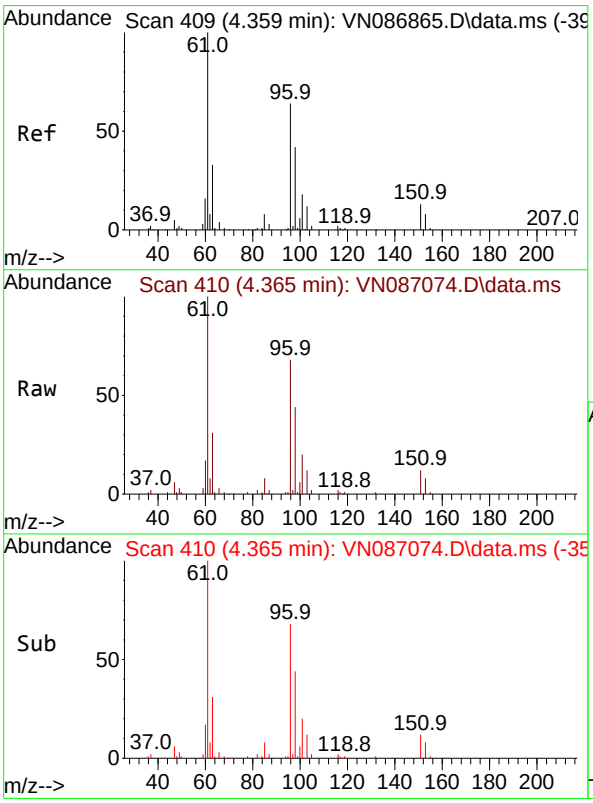
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.1	12.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

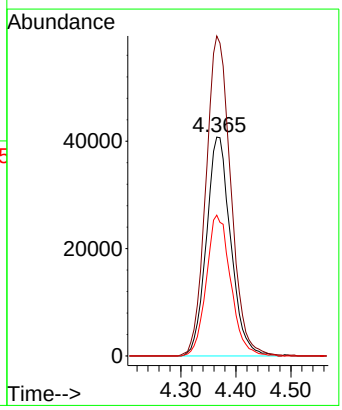
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

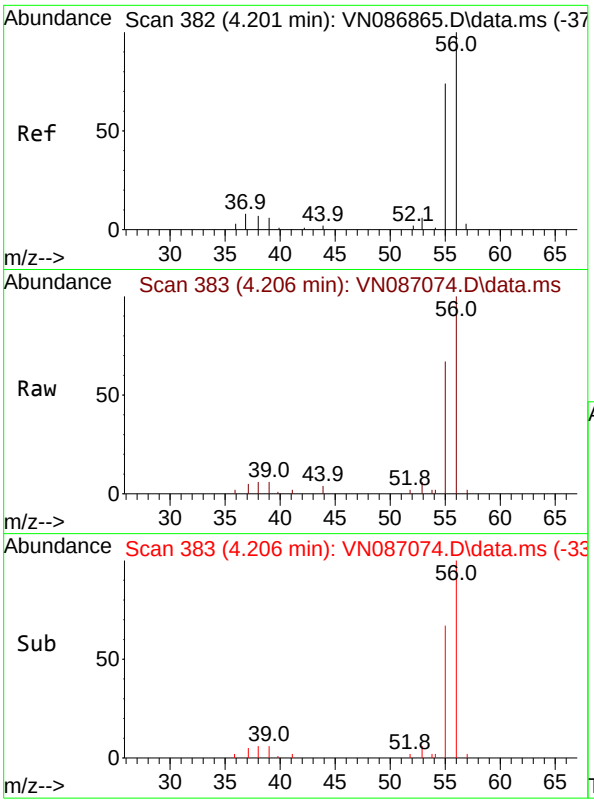


#12
1,1-Dichloroethene
Concen: 51.903 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 96 Resp: 125476

Ion	Ratio	Lower	Upper
96	100		
61	146.1	125.8	188.6
98	64.3	52.5	78.7





#13
Acrolein
Concen: 163.999 ug/l
RT: 4.206 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

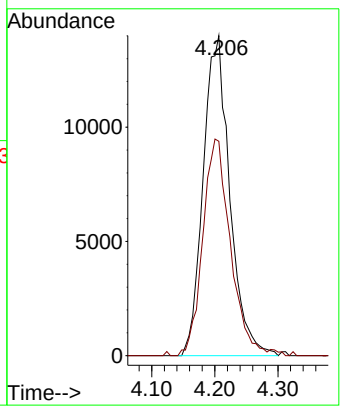
Tgt Ion: 56 Resp: 4096

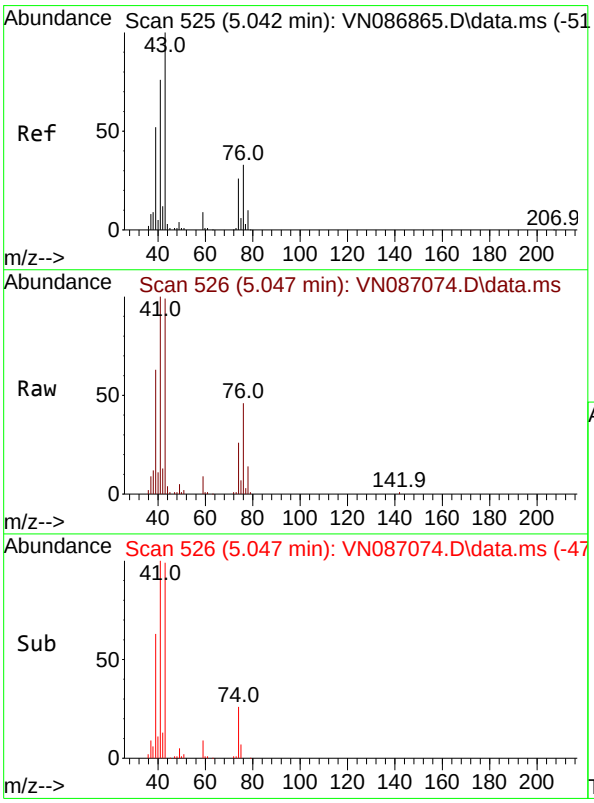
Ion	Ratio	Lower	Upper
56	100		
55	69.9	55.6	83.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

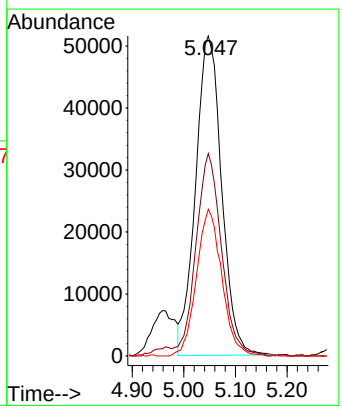


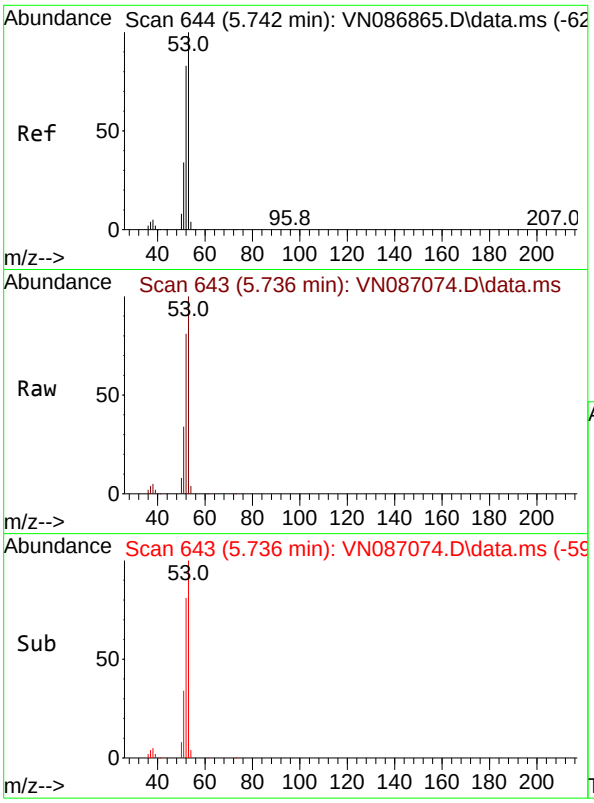


#14
Allyl chloride
Concen: 45.094 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 41 Resp: 180796

Ion	Ratio	Lower	Upper
41	100		
39	62.1	51.3	76.9
76	44.5	31.4	47.0





#15
Acrylonitrile
Concen: 229.103 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

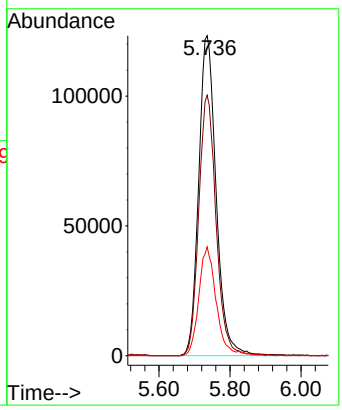
Tgt Ion: 53 Resp: 42254

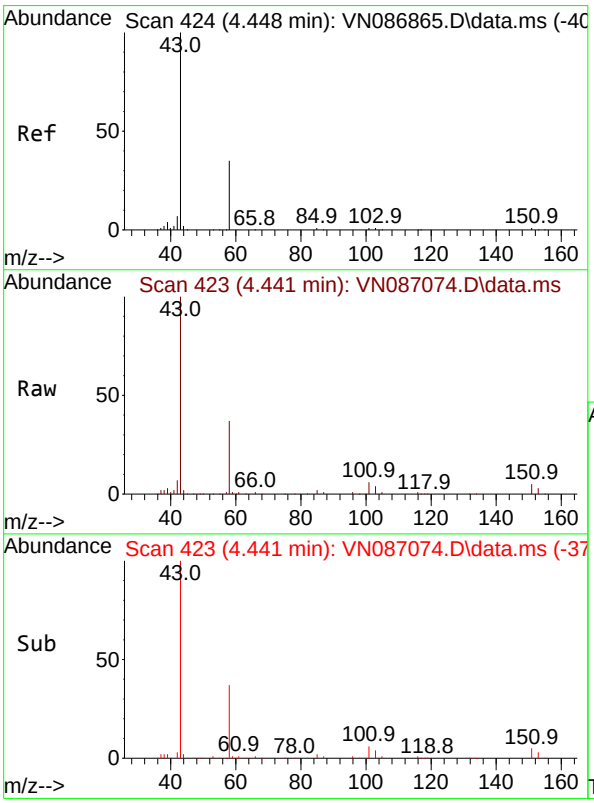
Ion	Ratio	Lower	Upper
53	100		
52	80.7	65.0	97.6
51	33.7	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

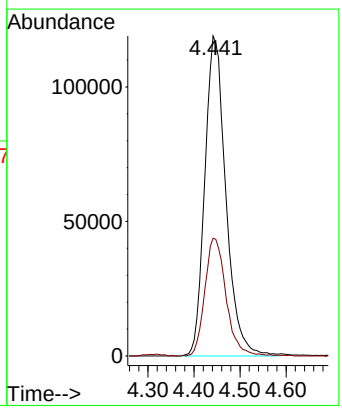


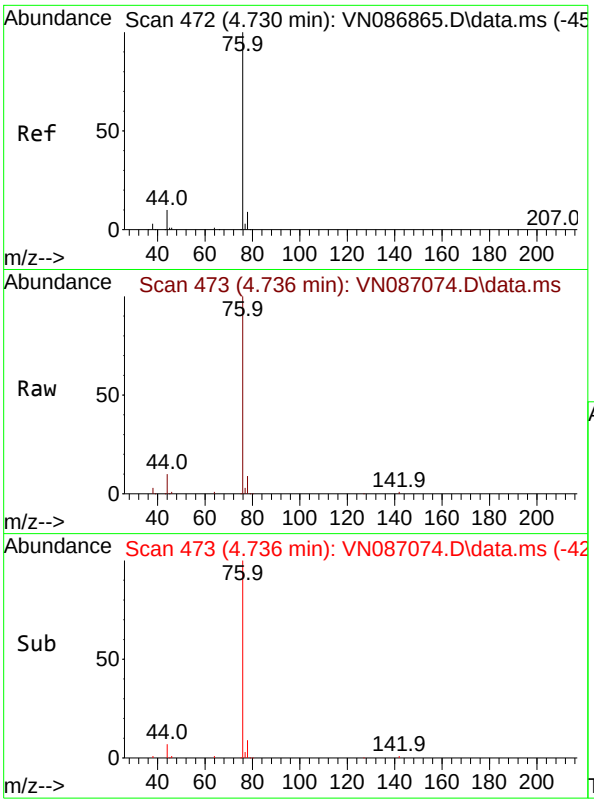


#16
Acetone
Concen: 245.332 ug/l
RT: 4.441 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 43 Resp: 378344

Ion	Ratio	Lower	Upper
43	100		
58	36.8	28.0	42.0

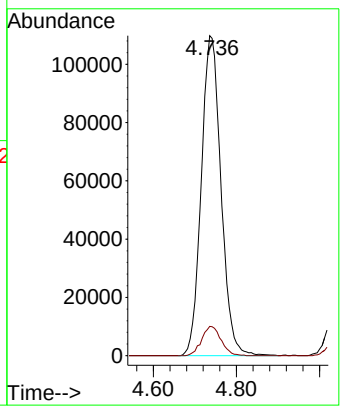




#17
Carbon Disulfide
Concen: 54.081 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 76 Resp: 36164

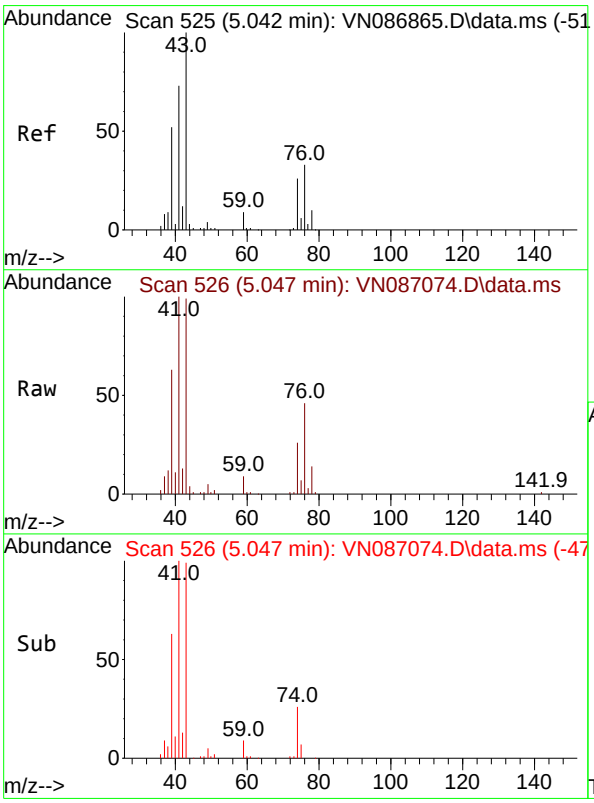
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

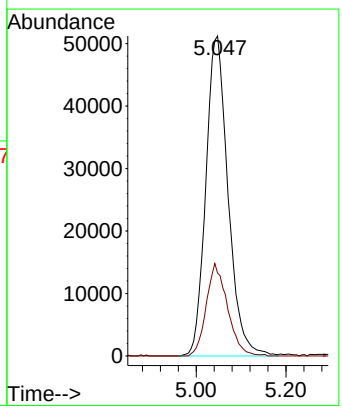
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

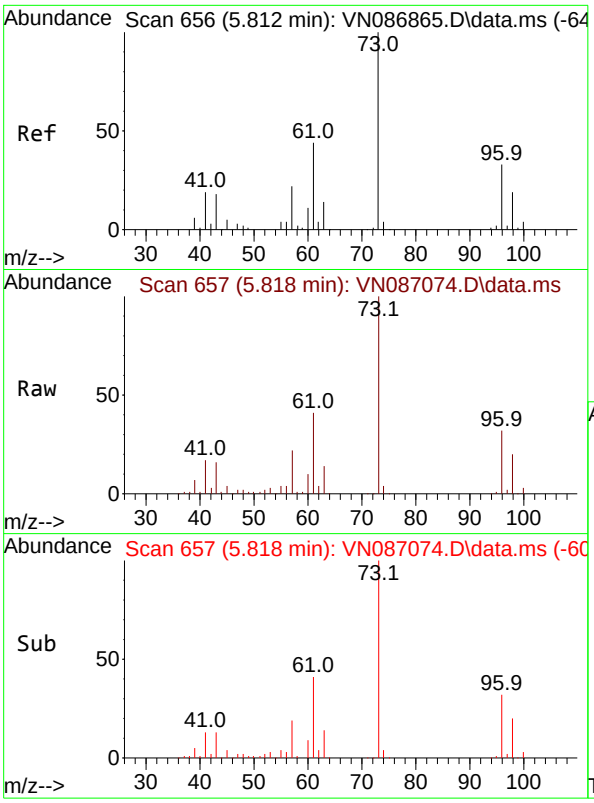


#18
Methyl Acetate
Concen: 39.139 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 43 Resp: 175895

Ion	Ratio	Lower	Upper
43	100		
74	27.6	20.7	31.1

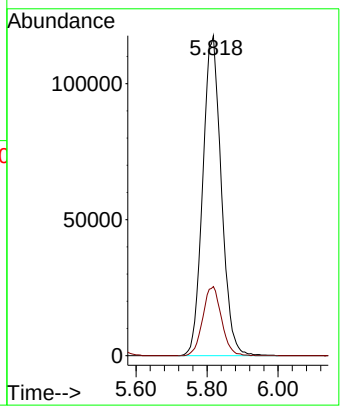




#19
Methyl tert-butyl Ether
Concen: 48.841 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 73 Resp: 42752

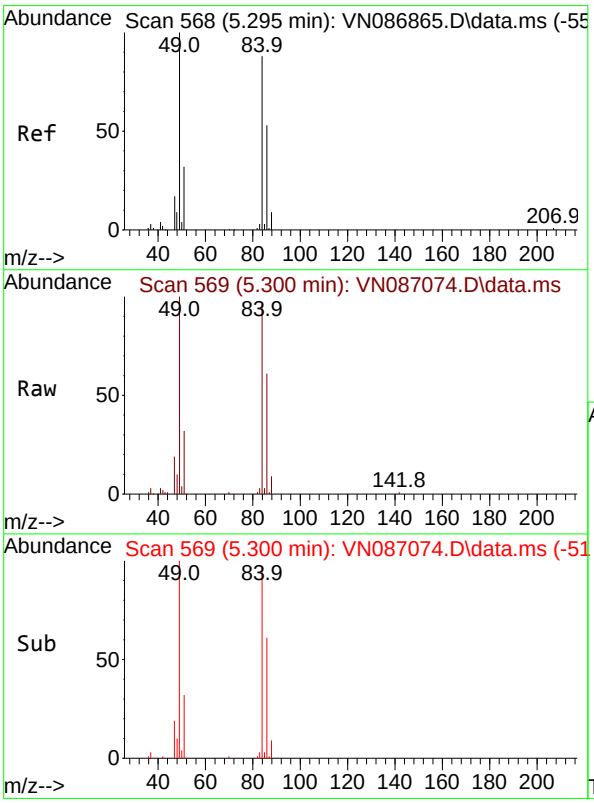
Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

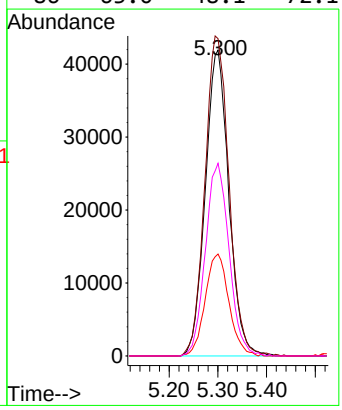
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

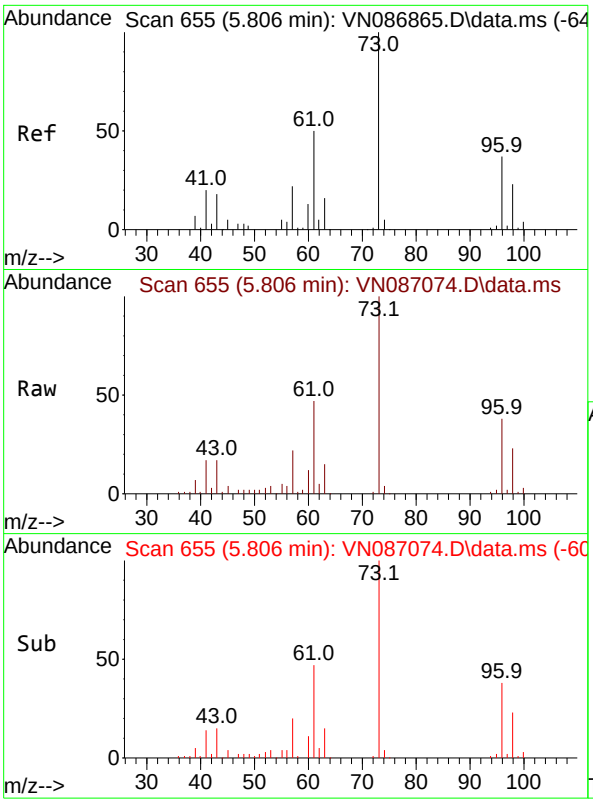


#20
Methylene Chloride
Concen: 48.688 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 84 Resp: 140573

Ion	Ratio	Lower	Upper
84	100		
49	103.7	90.5	135.7
51	33.3	28.5	42.7
86	63.0	48.1	72.1

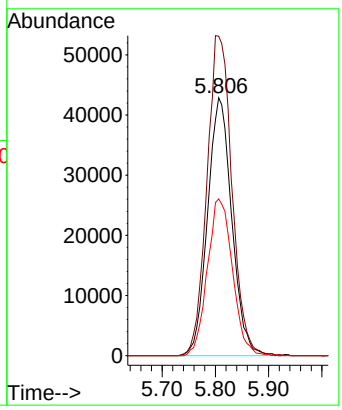




#21
trans-1,2-Dichloroethene
Concen: 50.386 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 96 Resp: 13552

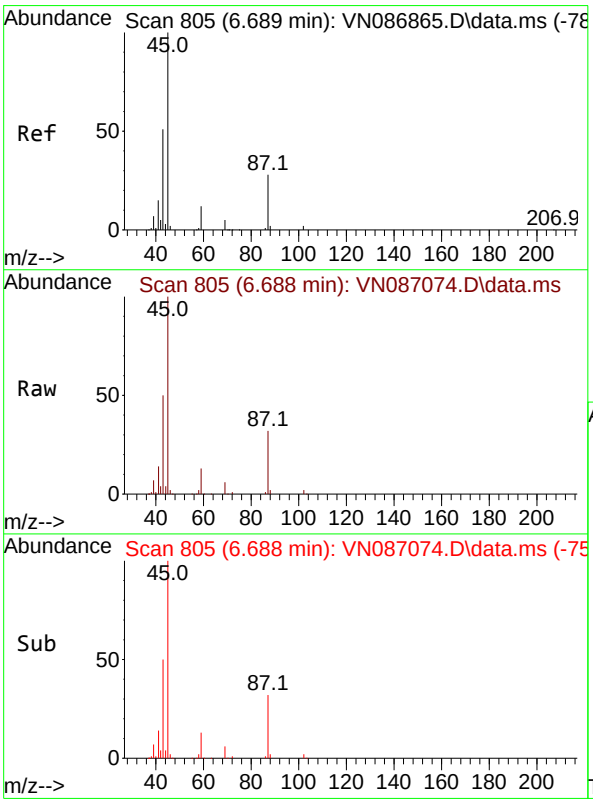
Ion	Ratio	Lower	Upper
96	100		
61	123.8	109.2	163.8
98	60.8	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

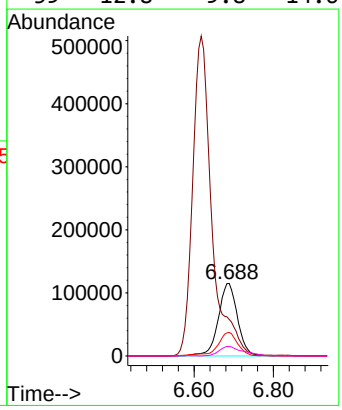
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

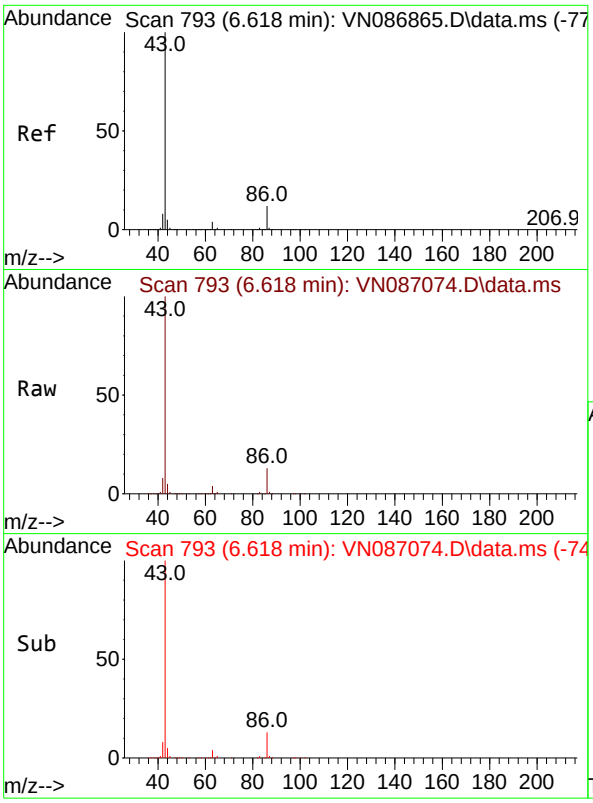


#22
Diisopropyl ether
Concen: 45.626 ug/l
RT: 6.688 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 45 Resp: 385594

Ion	Ratio	Lower	Upper
45	100		
43	49.2	41.9	62.9
87	32.3	22.4	33.6
59	12.8	9.8	14.6





#23
Vinyl Acetate
Concen: 237.318 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

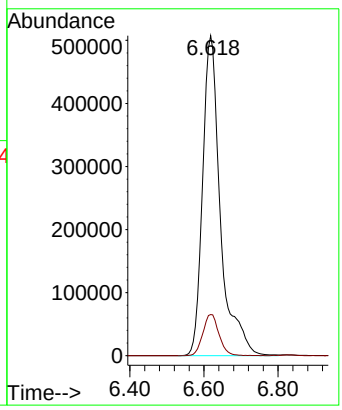
Tgt Ion: 43 Resp: 169454

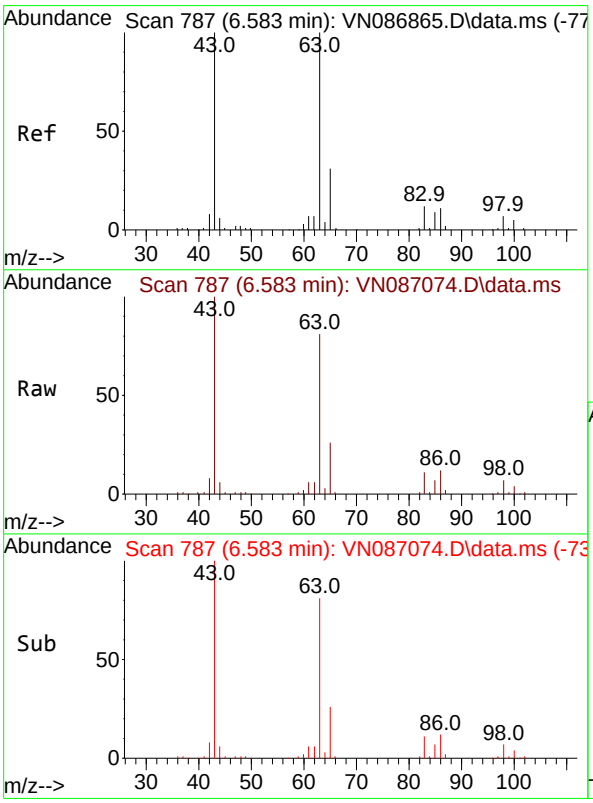
Ion	Ratio	Lower	Upper
43	100		
86	12.8	9.5	14.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

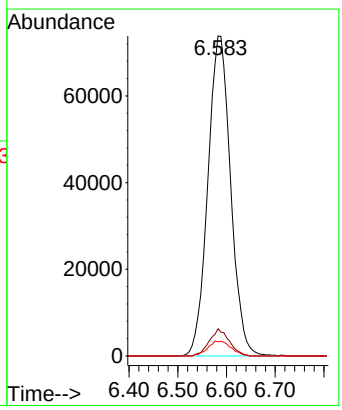


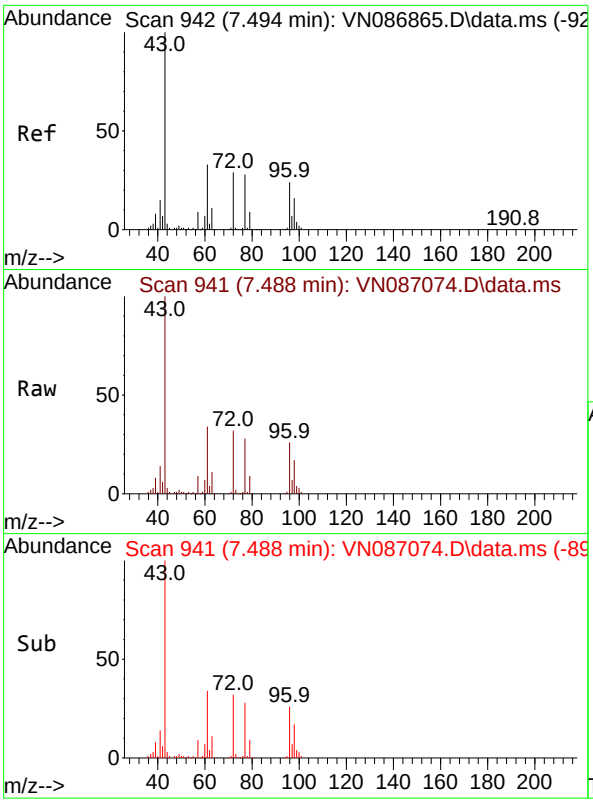


#24
1,1-Dichloroethane
Concen: 49.275 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 63 Resp: 239648

Ion	Ratio	Lower	Upper
63	100		
98	8.5	3.6	10.8
100	4.4	2.6	7.8





#25
2-Butanone
Concen: 211.995 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

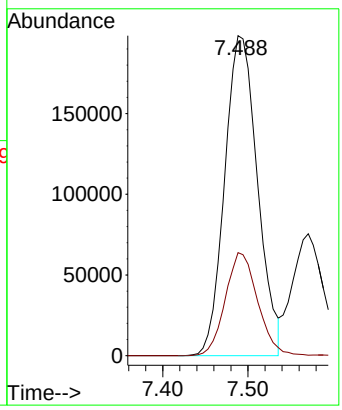
Tgt Ion: 43 Resp: 53141

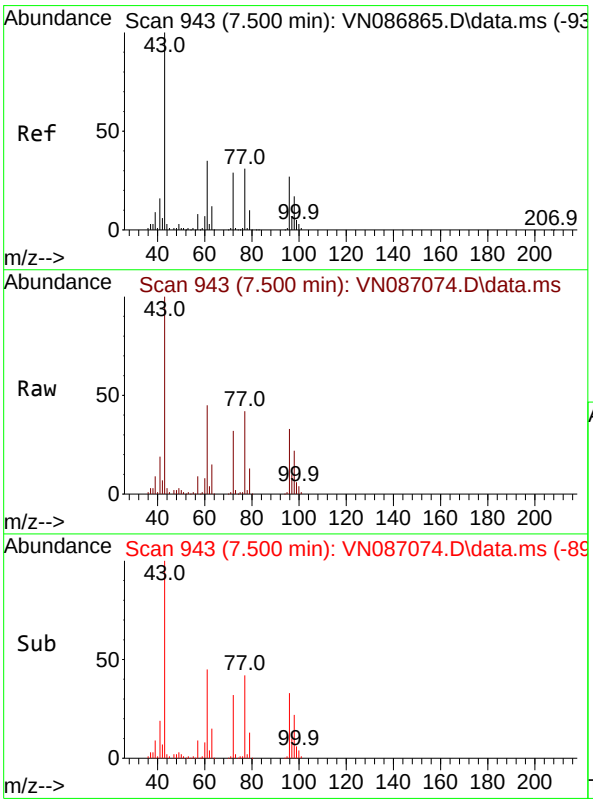
Ion	Ratio	Lower	Upper
43	100		
72	32.2	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

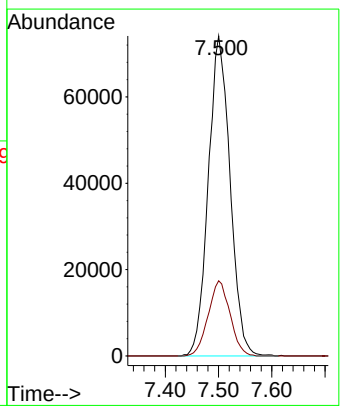


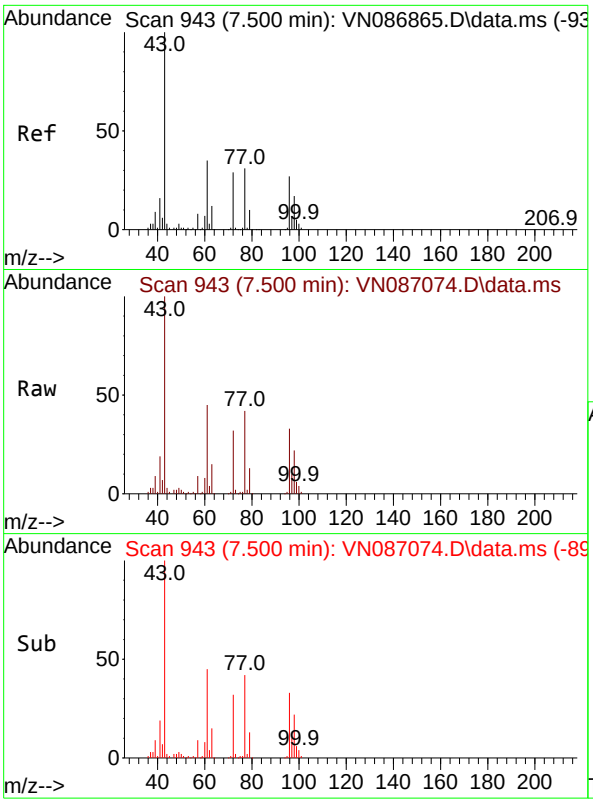


#26
2,2-Dichloropropane
Concen: 55.517 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 77 Resp: 210034

Ion	Ratio	Lower	Upper
77	100		
97	23.6	11.6	34.7

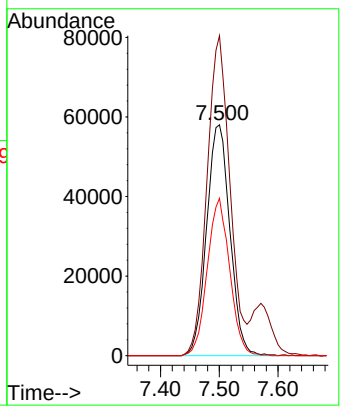




#27
cis-1,2-Dichloroethene
Concen: 49.705 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 96 Resp: 15988

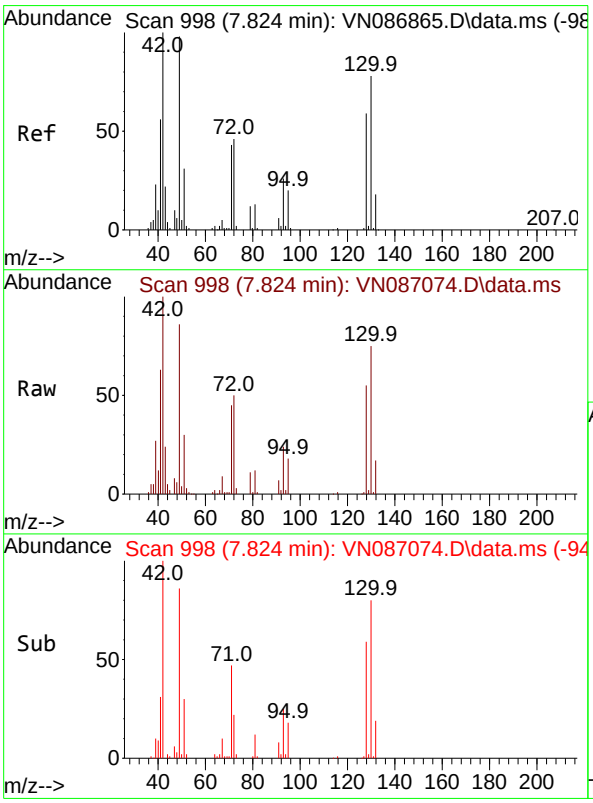
Ion	Ratio	Lower	Upper
96	100		
61	135.8	0.0	278.0
98	65.5	0.0	128.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

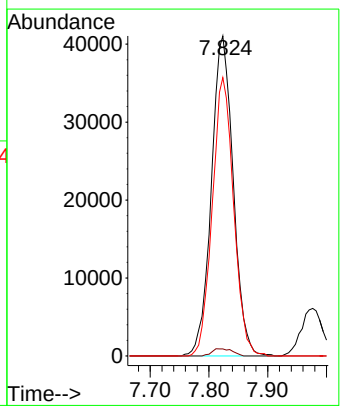
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

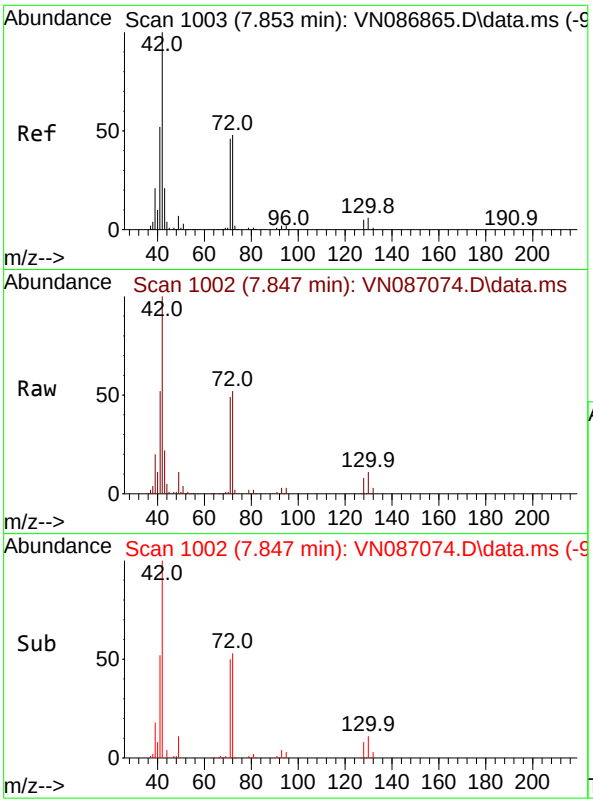


#28
Bromochloromethane
Concen: 44.293 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 49 Resp: 105918

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	3.8
130	85.0	62.2	93.2

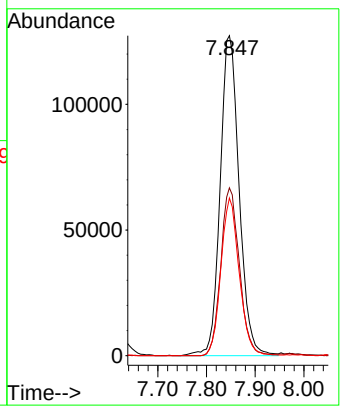




#29
Tetrahydrofuran
Concen: 211.614 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 42 Resp: 34556

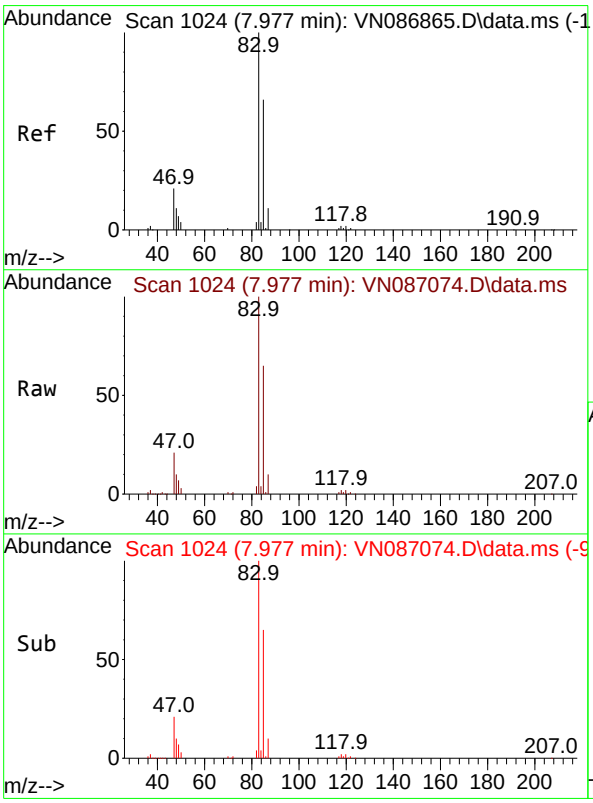
Ion	Ratio	Lower	Upper
42	100		
72	51.3	37.8	56.6
71	47.6	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

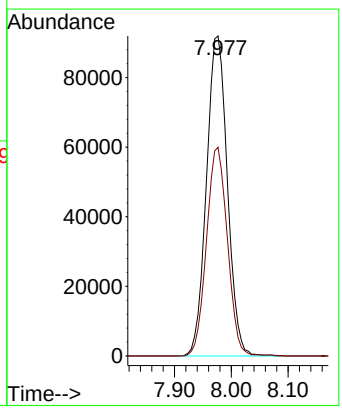
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

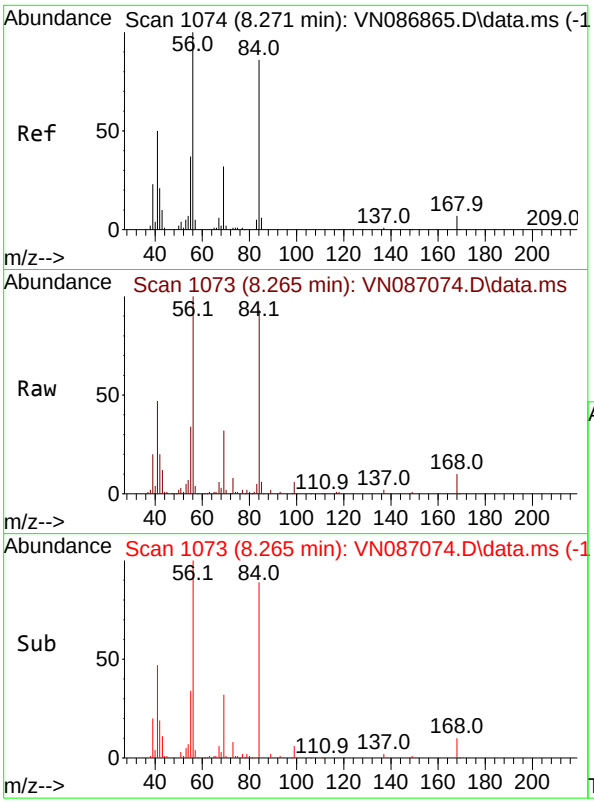


#30
Chloroform
Concen: 48.348 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 83 Resp: 234823

Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.9	79.3

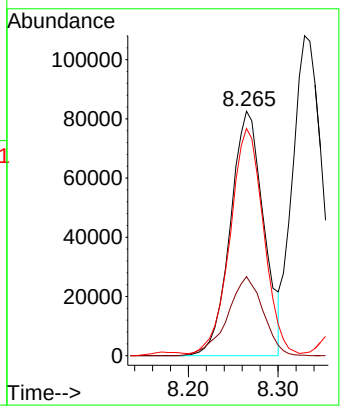




#31
Cyclohexane
Concen: 45.214 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 56 Resp: 21325

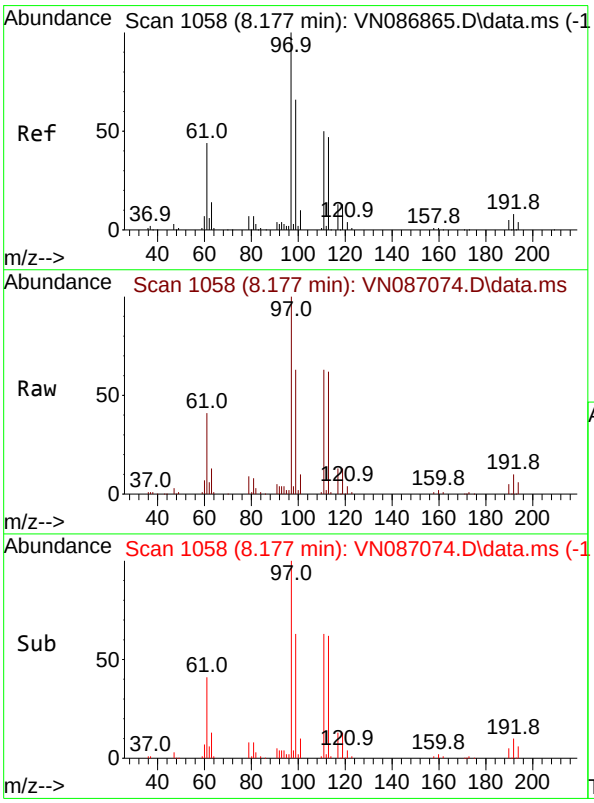
Ion	Ratio	Lower	Upper
56	100		
69	32.3	25.4	38.0
84	91.6	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

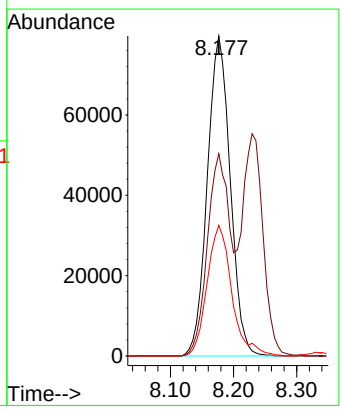
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

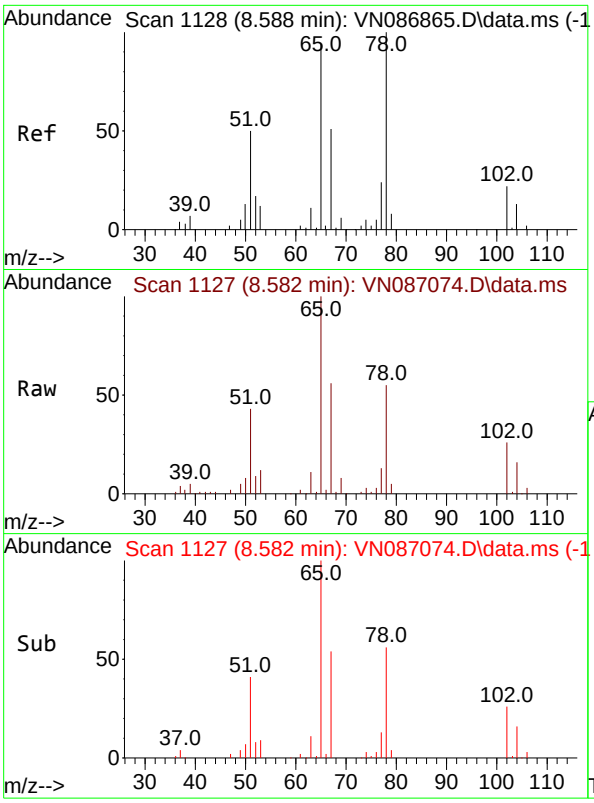


#32
1,1,1-Trichloroethane
Concen: 48.606 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 97 Resp: 200791

Ion	Ratio	Lower	Upper
97	100		
99	61.1	52.0	78.0
61	44.1	35.9	53.9

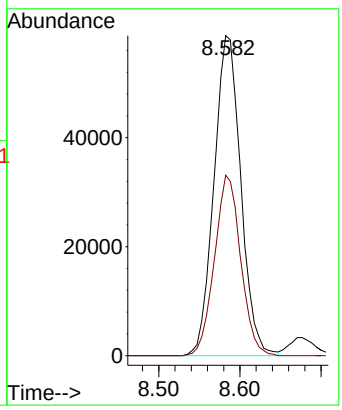




#33
1,2-Dichloroethane-d4
Concen: 46.352 ug/l
RT: 8.582 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 65 Resp: 13479

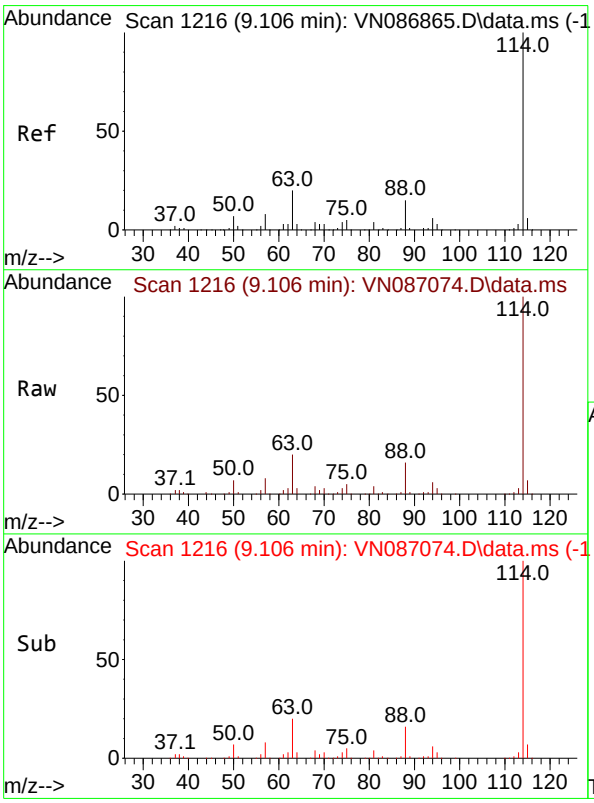
Ion	Ratio	Lower	Upper
65	100		
67	55.0	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

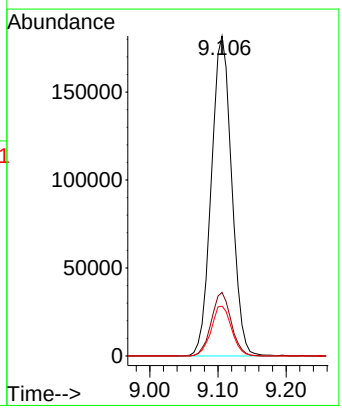
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

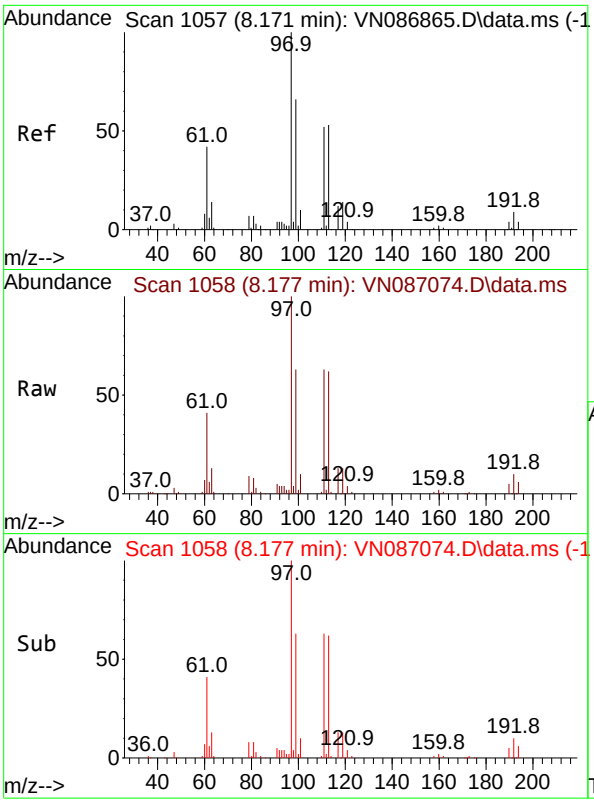


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:114 Resp: 377846

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	39.6
88	15.6	0.0	30.2

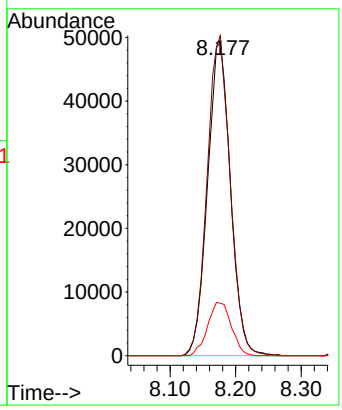




#35
Dibromofluoromethane
Concen: 53.283 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:113 Resp: 11931

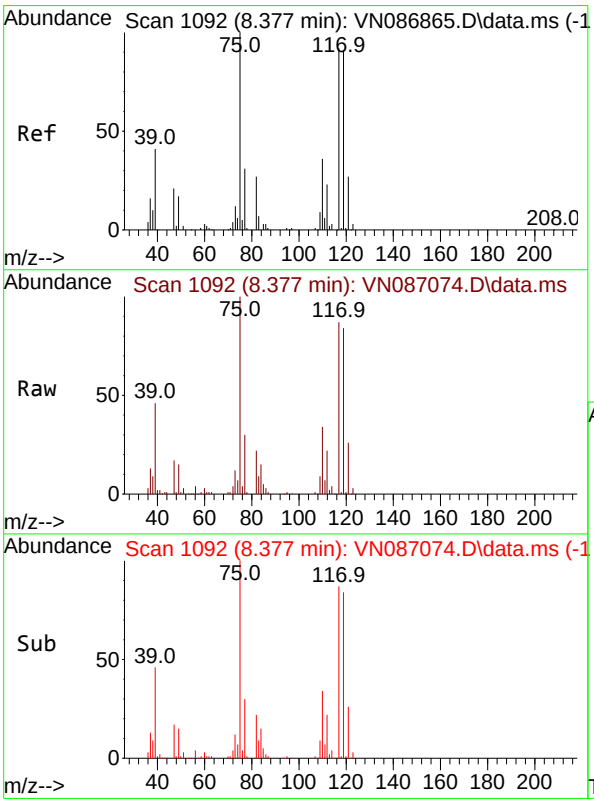
Ion	Ratio	Lower	Upper
113	100		
111	103.3	84.2	126.2
192	17.6	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

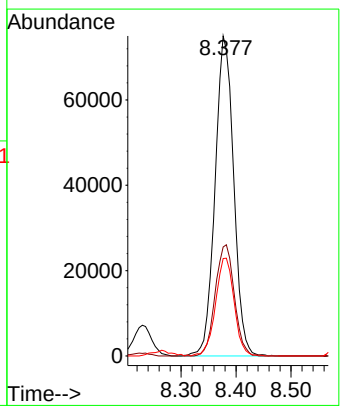
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

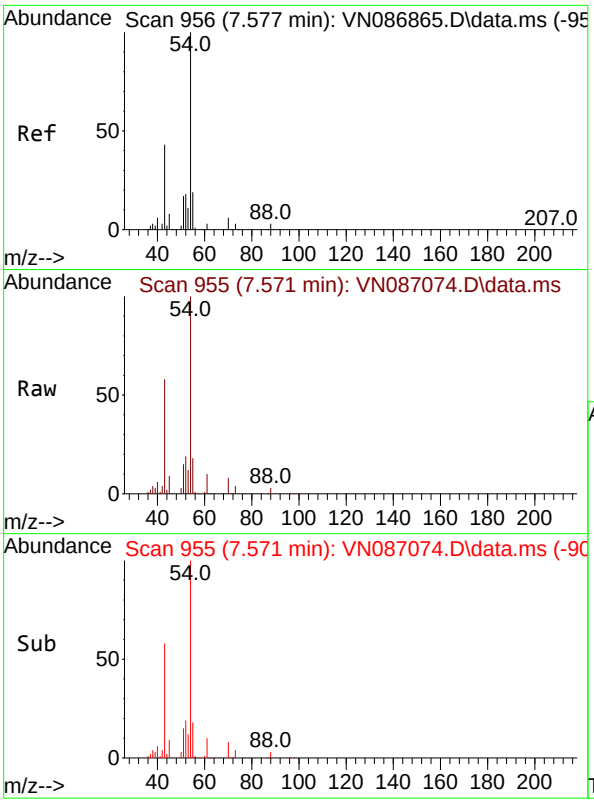


#36
1,1-Dichloropropene
Concen: 52.888 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 75 Resp: 176467

Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.6	52.9
77	30.6	25.3	37.9





#37
Ethyl Acetate
Concen: 47.255 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

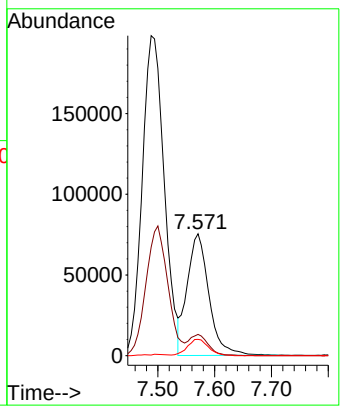
Tgt Ion: 43 Resp: 20071

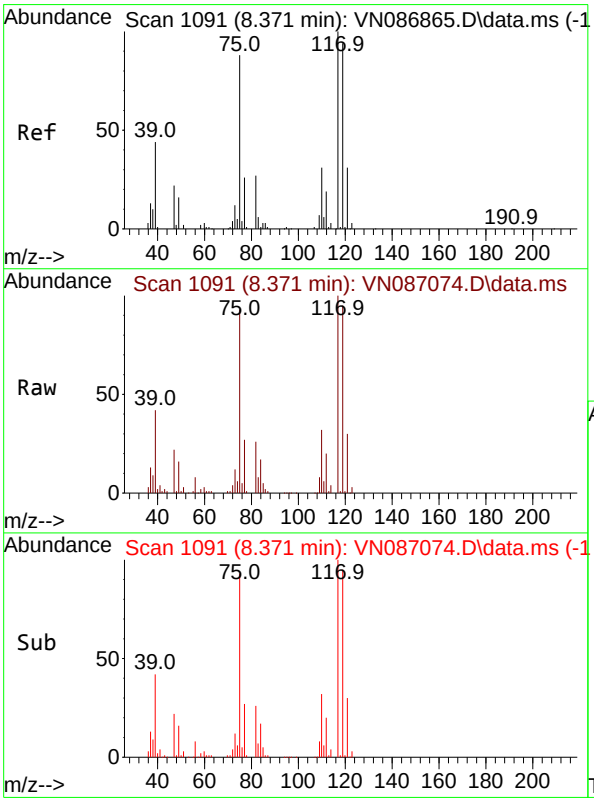
Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.1	18.1
70	13.0	9.8	14.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

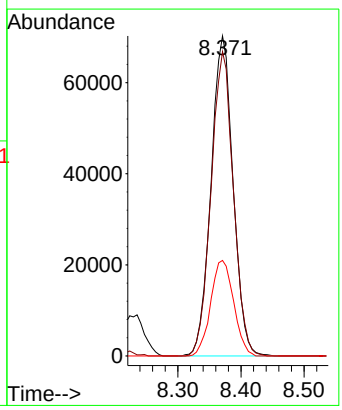


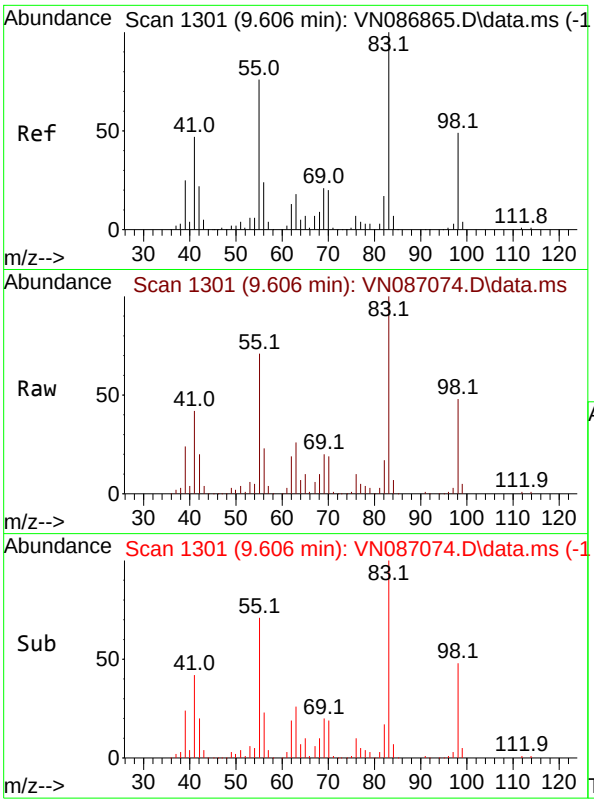


#38
Carbon Tetrachloride
Concen: 51.960 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:117 Resp: 170212

Ion	Ratio	Lower	Upper
117	100		
119	95.1	75.0	112.6
121	29.9	24.9	37.3

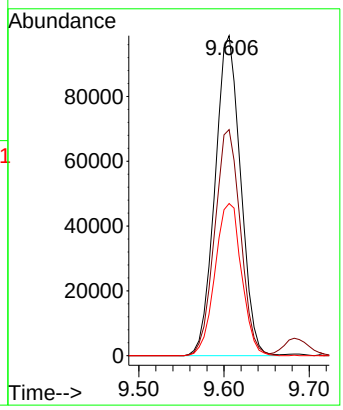




#39
Methylcyclohexane
Concen: 45.080 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 83 Resp: 20607

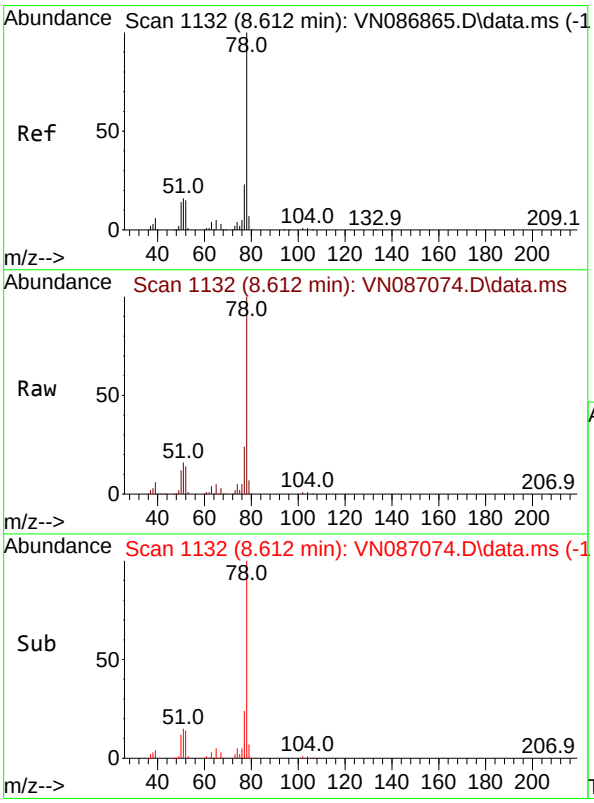
Ion	Ratio	Lower	Upper
83	100		
55	70.6	61.0	91.6
98	47.5	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

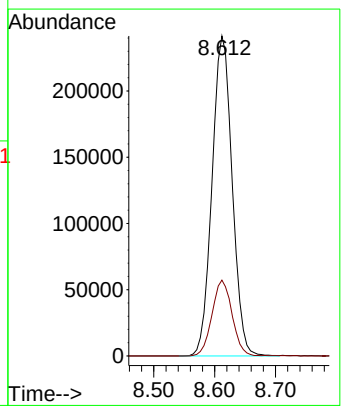
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

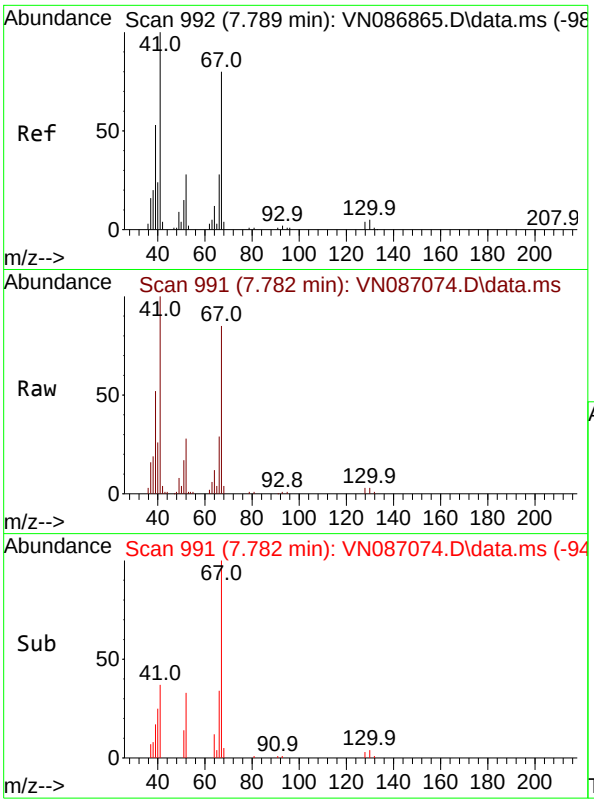


#40
Benzene
Concen: 50.844 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 78 Resp: 554750

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.7	28.1

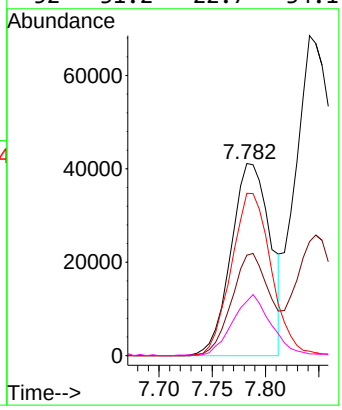




#41
Methacrylonitrile
Concen: 44.118 ug/l
RT: 7.782 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 41 Resp: 10524

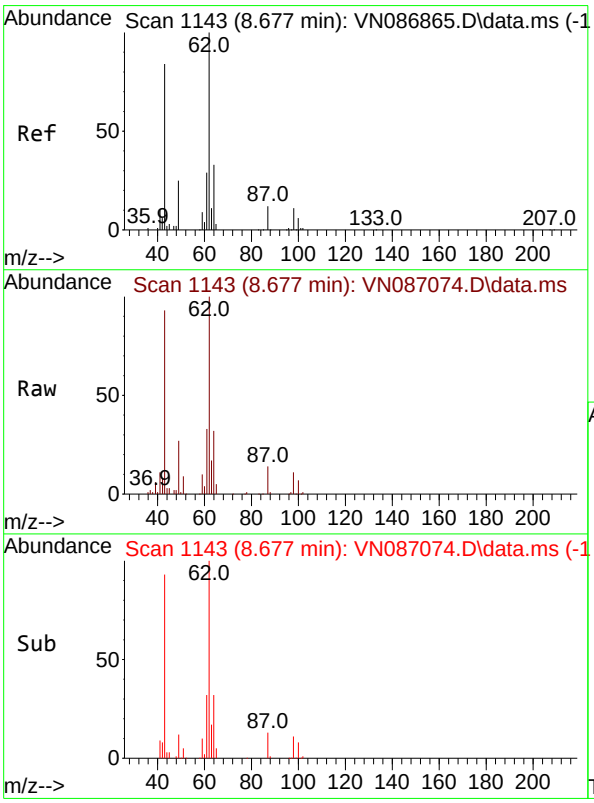
Ion	Ratio	Lower	Upper
41	100		
39	50.9	41.2	61.8
67	86.7	61.4	92.2
52	31.2	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

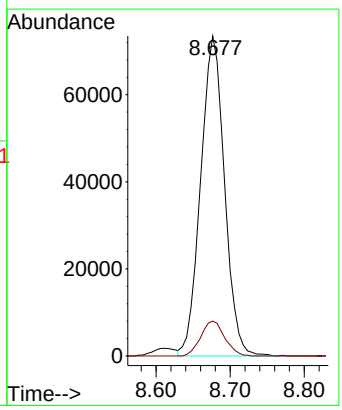
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

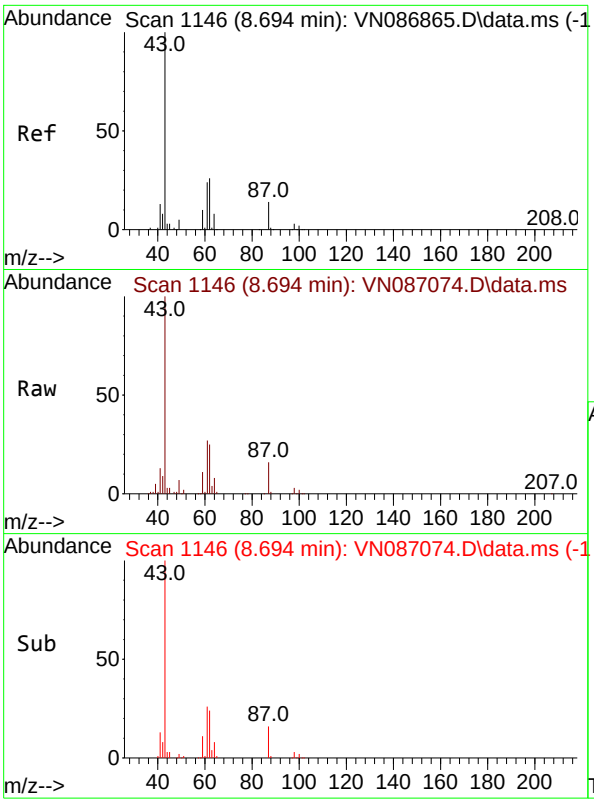


#42
1,2-Dichloroethane
Concen: 49.628 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 62 Resp: 164239

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	21.2





#43
Isopropyl Acetate
Concen: 45.206 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

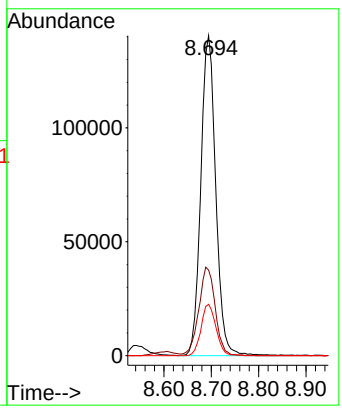
Tgt Ion: 43 Resp: 30818

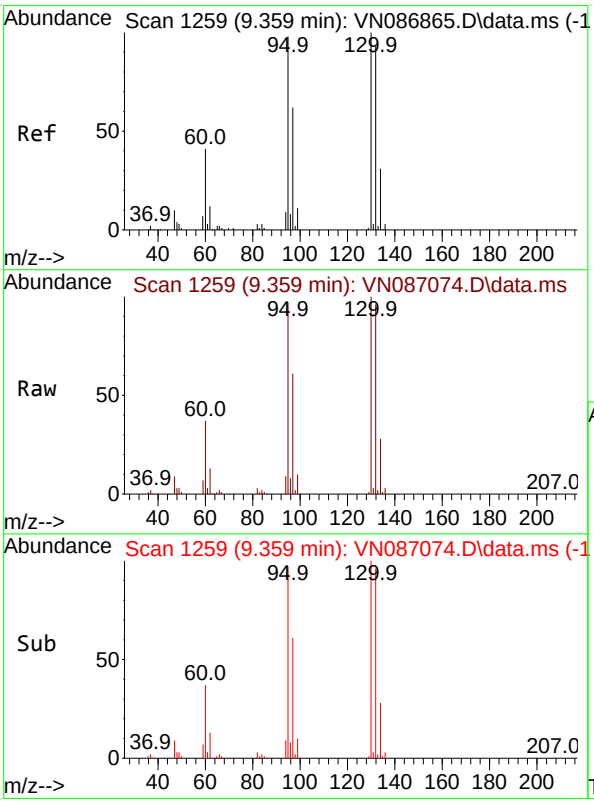
Ion	Ratio	Lower	Upper
43	100		
61	30.4	22.1	33.1
87	16.1	11.8	17.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

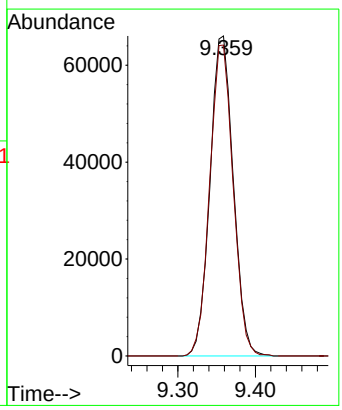


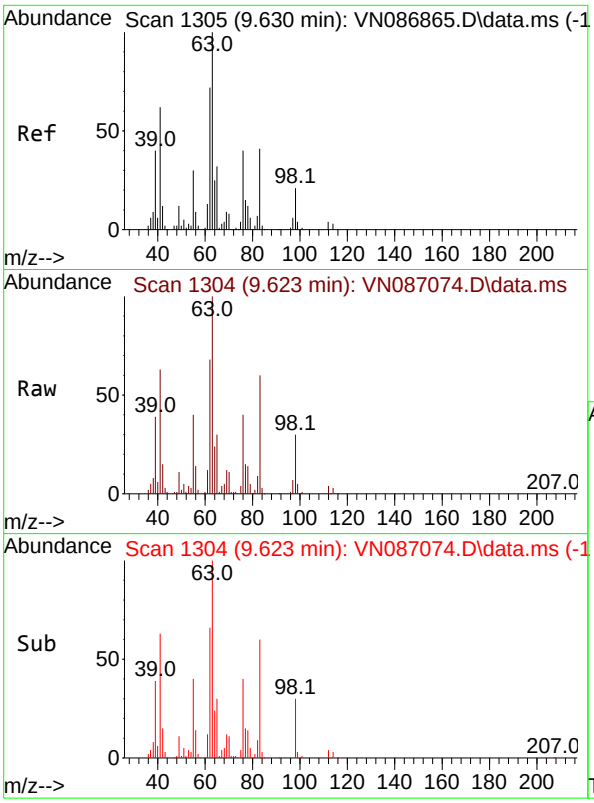


#44
Trichloroethene
Concen: 53.359 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:130 Resp: 138049

Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	196.2

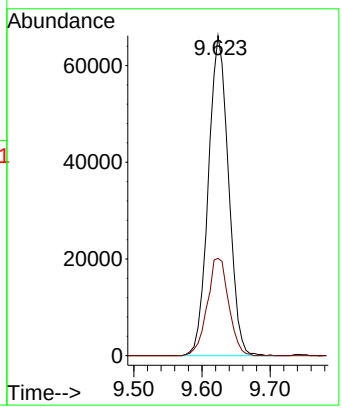




#45
1,2-Dichloropropane
Concen: 51.261 ug/l
RT: 9.623 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 63 Resp: 13607

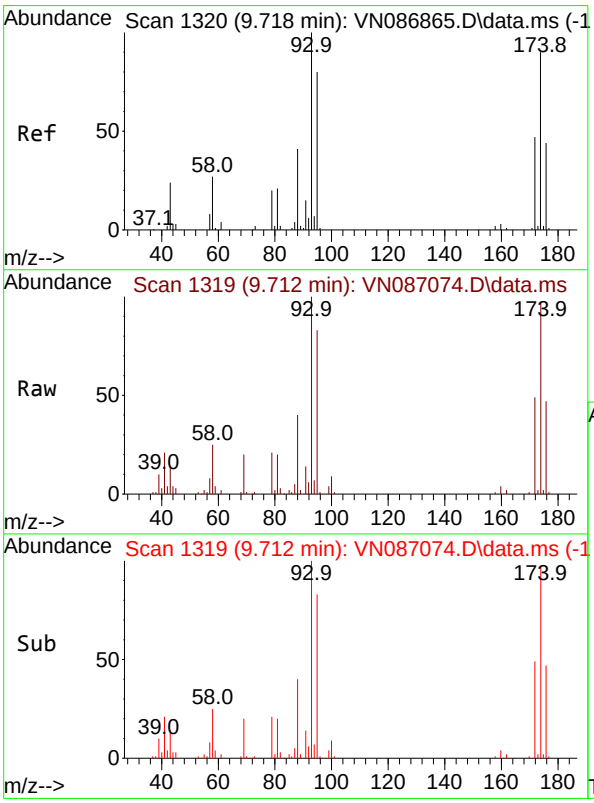
Ion	Ratio	Lower	Upper
63	100		
65	30.4	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

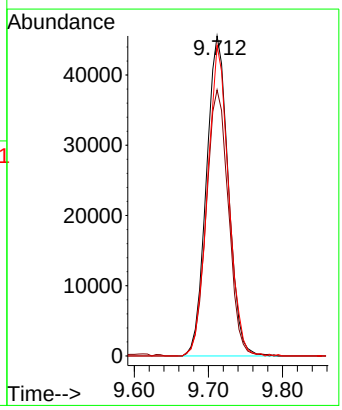
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

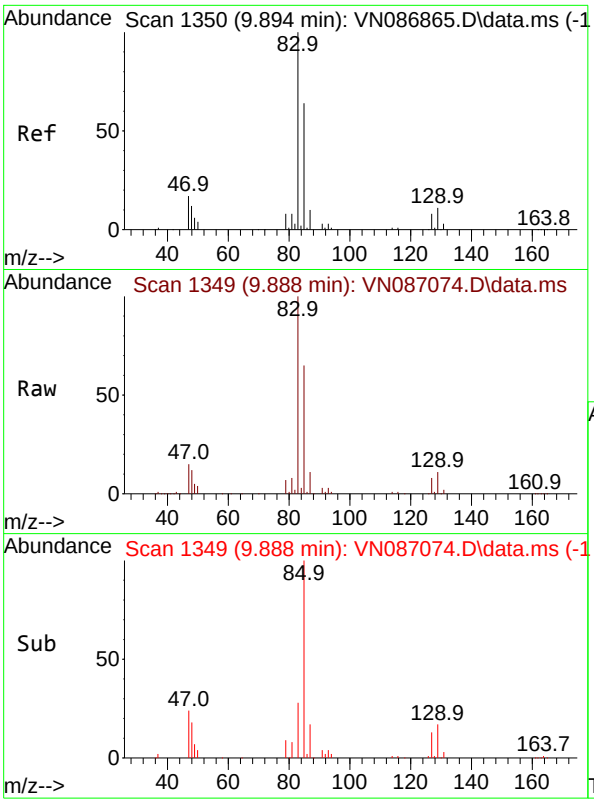


#46
Dibromomethane
Concen: 53.189 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 93 Resp: 93780

Ion	Ratio	Lower	Upper
93	100		
95	83.8	67.1	100.7
174	93.4	74.2	111.4

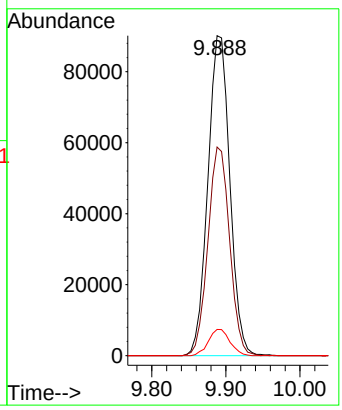




#47
Bromodichloromethane
Concen: 51.121 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 83 Resp: 18544

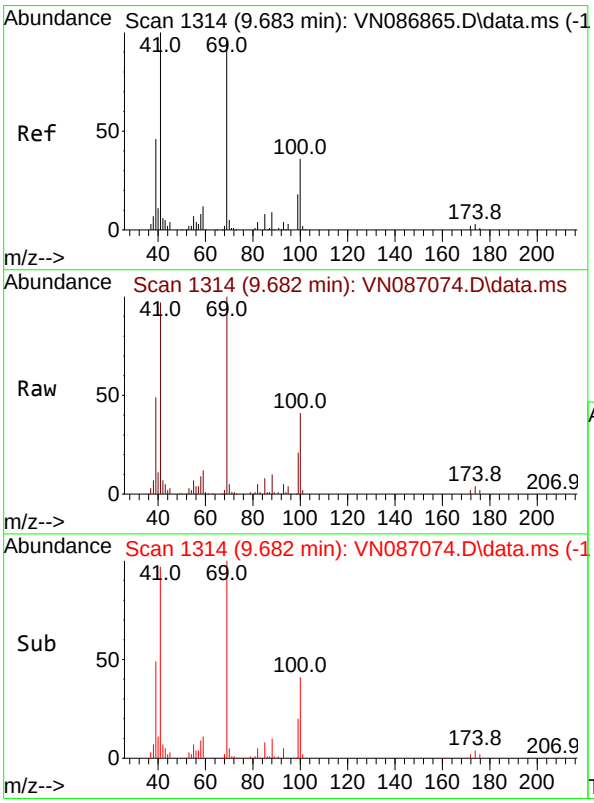
Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.9	76.3
127	8.2	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

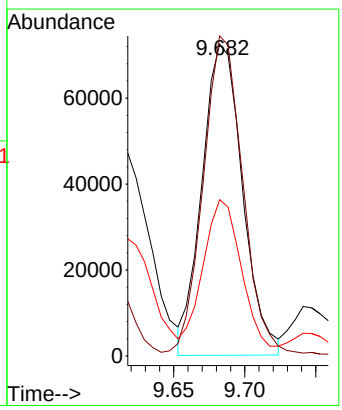
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

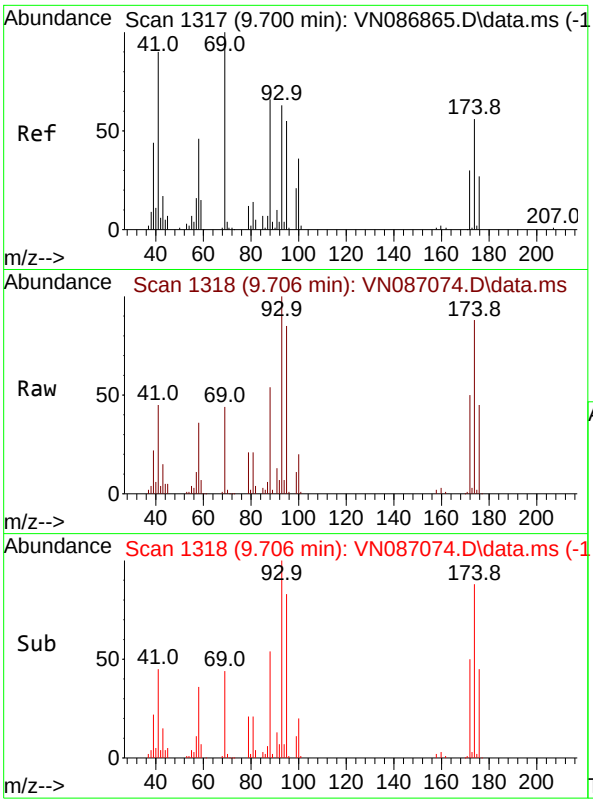


#48
Methyl methacrylate
Concen: 45.820 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 41 Resp: 143772

Ion	Ratio	Lower	Upper
41	100		
69	100.8	74.6	112.0
39	49.1	40.2	60.4





#49
1,4-Dioxane
Concen: 956.815 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

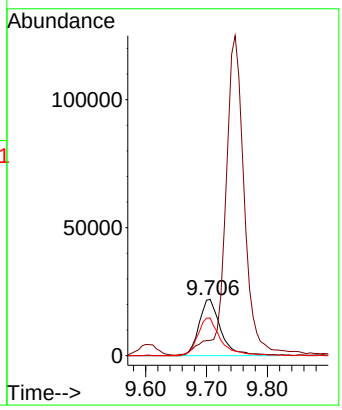
Tgt Ion: 88 Resp: 5461

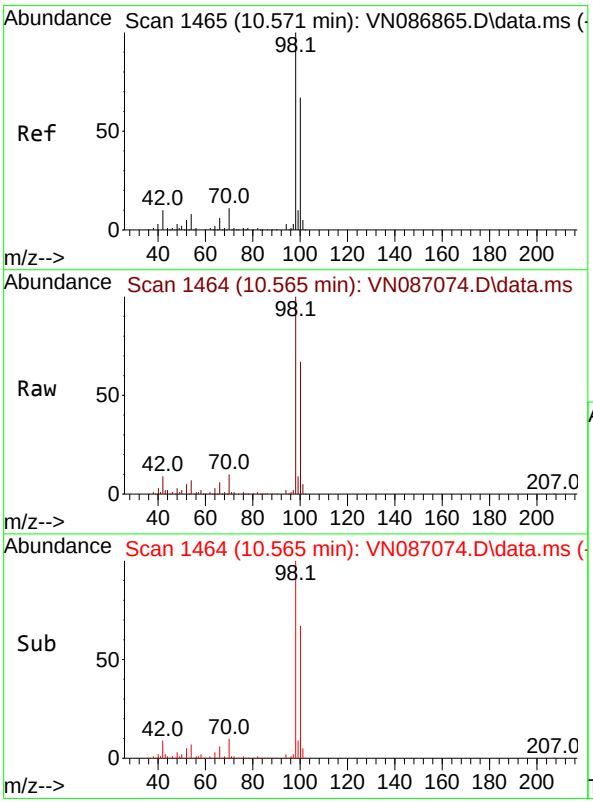
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	69.3	57.7	86.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

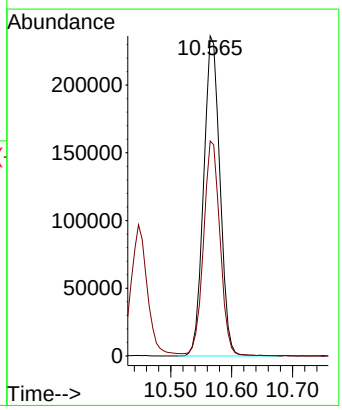


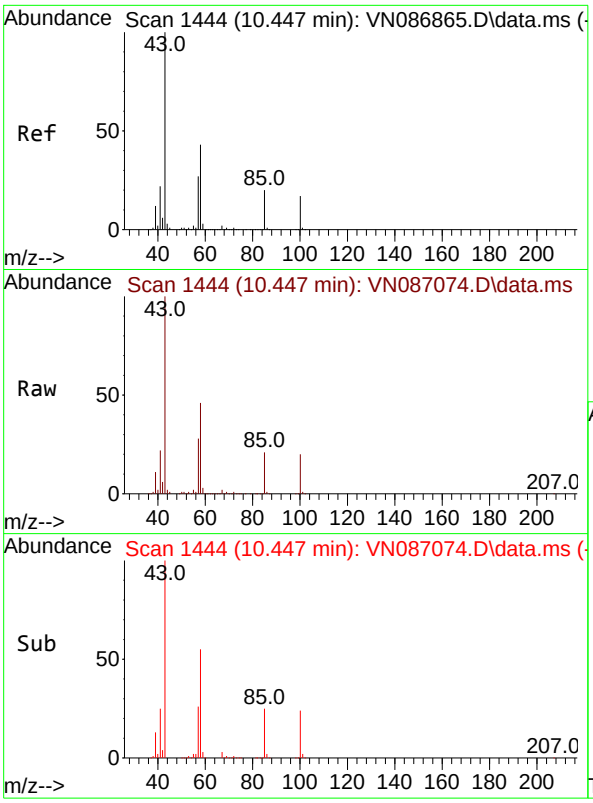


#50
Toluene-d8
Concen: 49.543 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 98 Resp: 439174

Ion	Ratio	Lower	Upper
98	100		
100	68.1	53.4	80.0

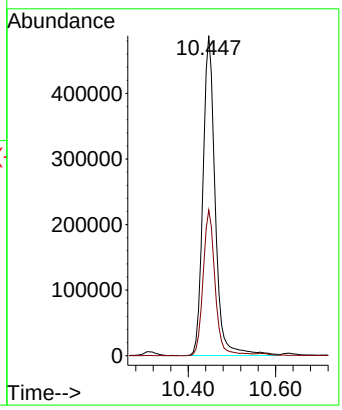




#51
4-Methyl-2-Pentanone
Concen: 232.037 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 43 Resp: 95230

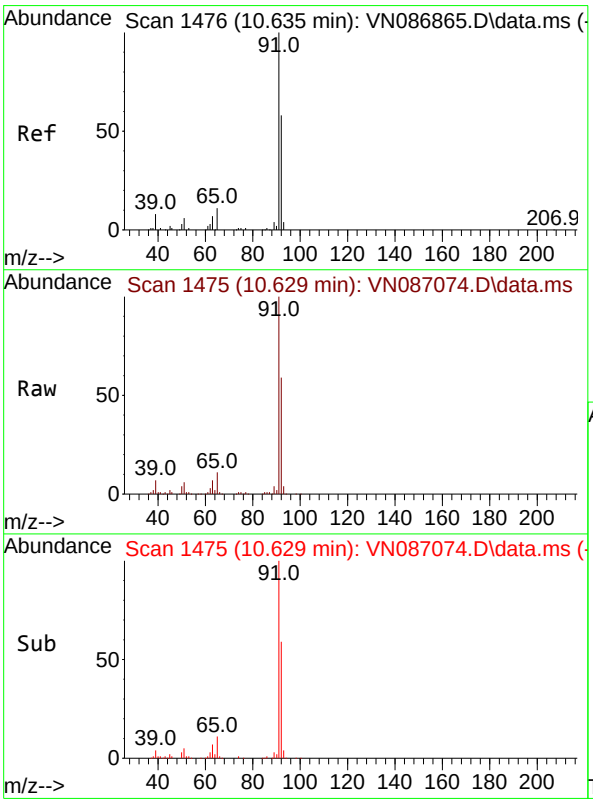
Ion	Ratio	Lower	Upper
43	100		
58	44.7	34.2	51.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

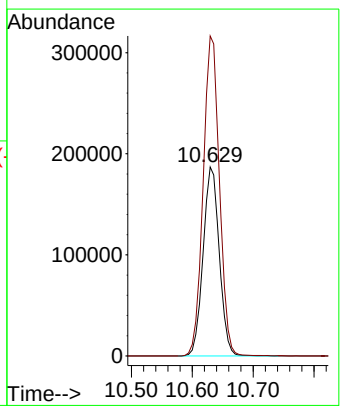
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

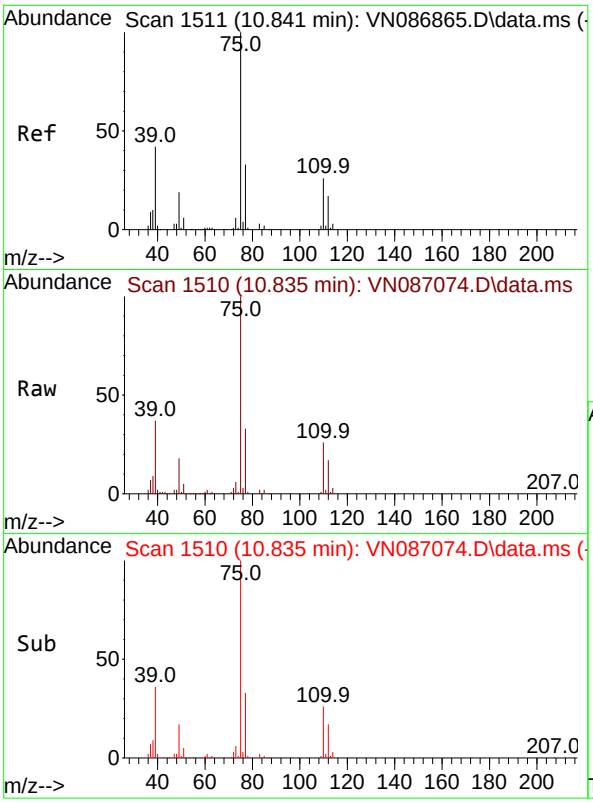


#52
Toluene
Concen: 51.712 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 92 Resp: 344814

Ion	Ratio	Lower	Upper
92	100		
91	170.3	136.5	204.7

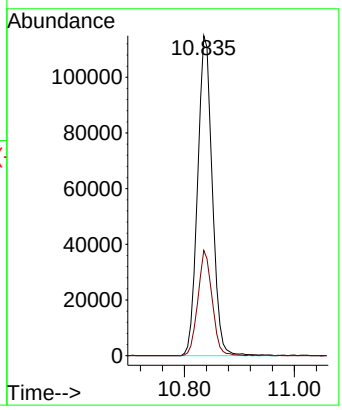




#53
t-1,3-Dichloropropene
Concen: 52.430 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 75 Resp: 21267

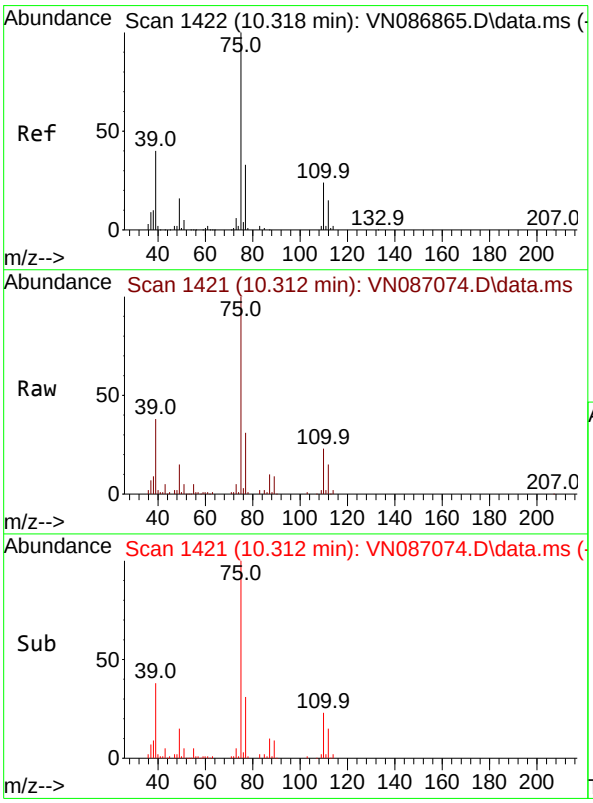
Ion	Ratio	Lower	Upper
75	100		
77	32.9	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

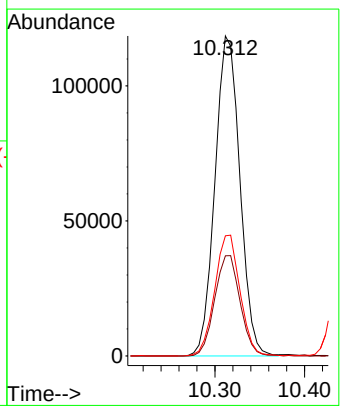
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

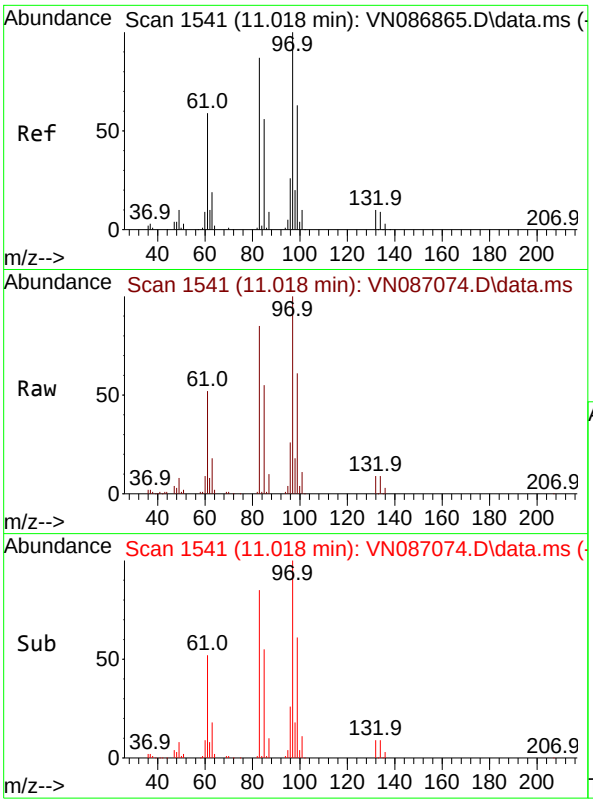


#54
cis-1,3-Dichloropropene
Concen: 52.653 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 75 Resp: 228528

Ion	Ratio	Lower	Upper
75	100		
77	31.3	26.2	39.4
39	37.5	32.3	48.5

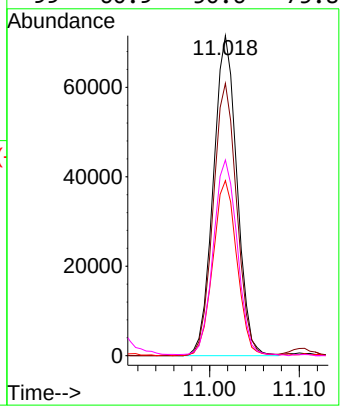




#55
1,1,2-Trichloroethane
Concen: 51.005 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

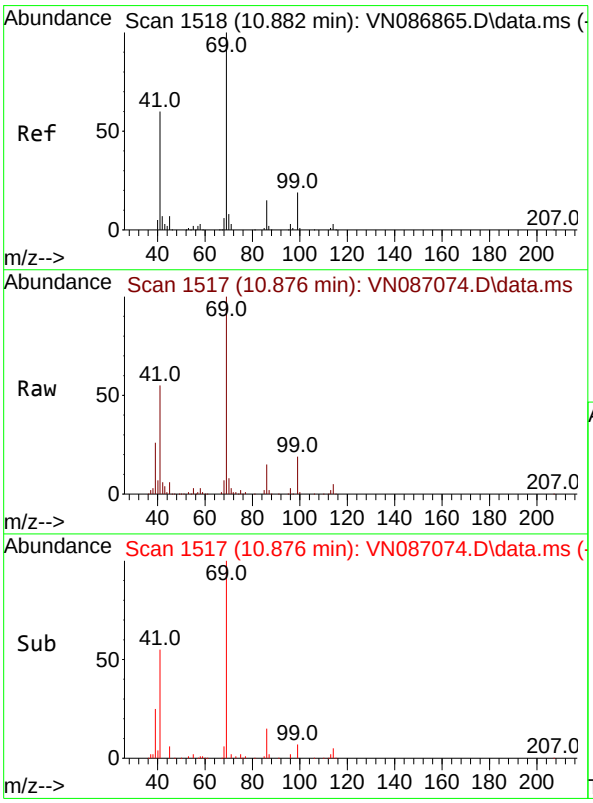
Tgt Ion: 97 Resp: 13086

Ion	Ratio	Lower	Upper
97	100		
83	85.1	69.7	104.5
85	54.5	45.1	67.7
99	60.9	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

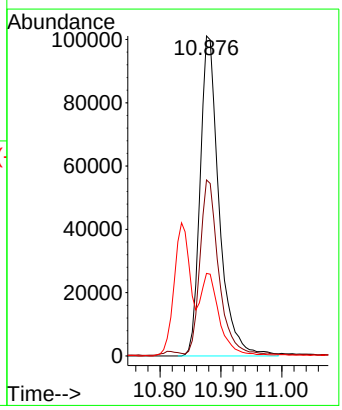
Manual Integrations APPROVED
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

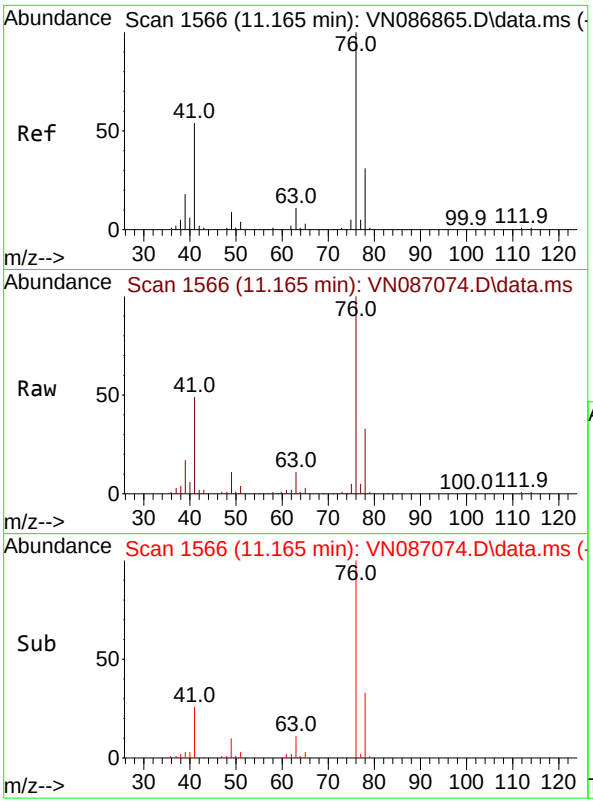


#56
Ethyl methacrylate
Concen: 53.576 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 69 Resp: 218942

Ion	Ratio	Lower	Upper
69	100		
41	54.3	47.2	70.8
39	25.1	23.0	34.6

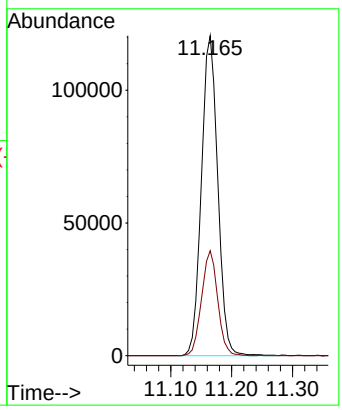




#57
1,3-Dichloropropane
Concen: 50.473 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 76 Resp: 22464

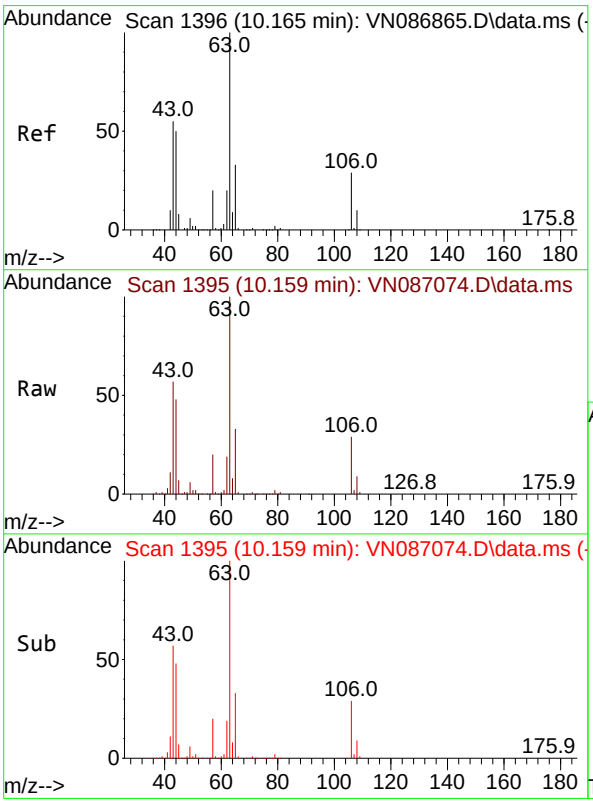
Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

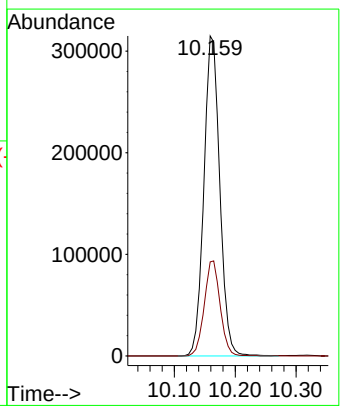
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

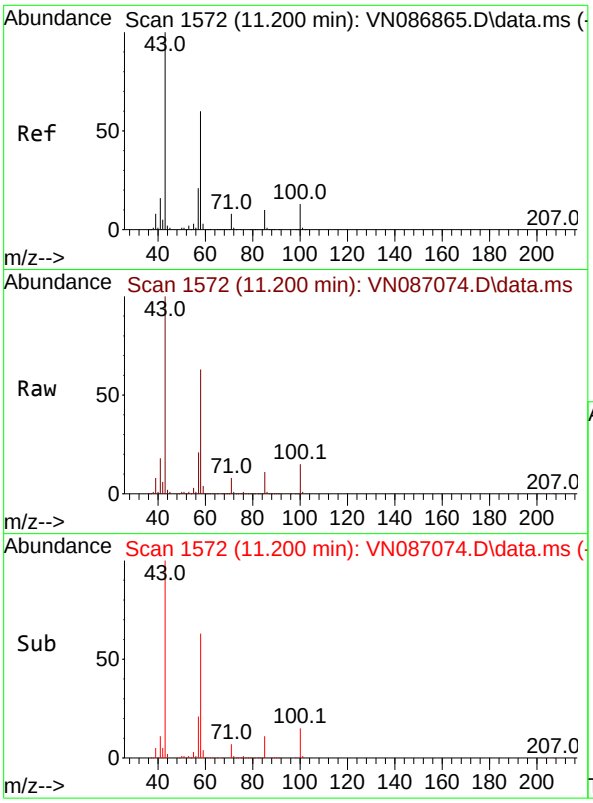


#58
2-Chloroethyl Vinyl ether
Concen: 234.289 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 63 Resp: 571062

Ion	Ratio	Lower	Upper
63	100		
106	29.7	23.0	34.6





#59
2-Hexanone
Concen: 242.852 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

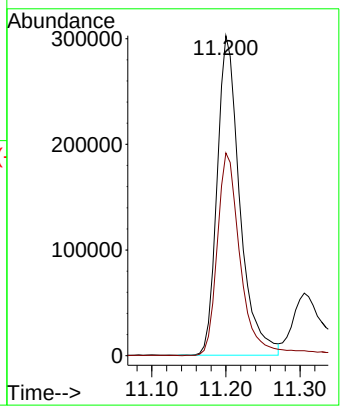
Tgt Ion: 43 Resp: 64200

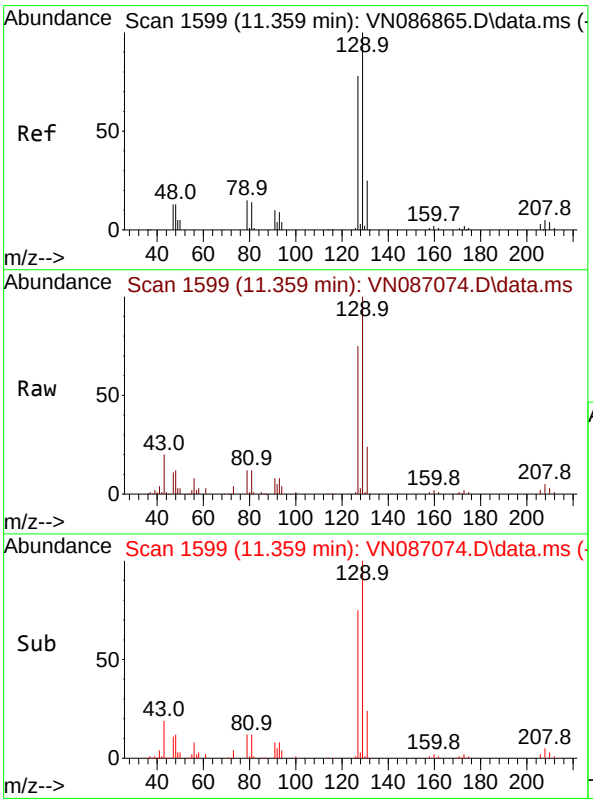
Ion	Ratio	Lower	Upper
43	100		
58	66.8	30.4	91.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

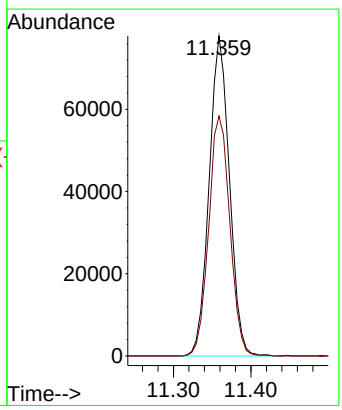


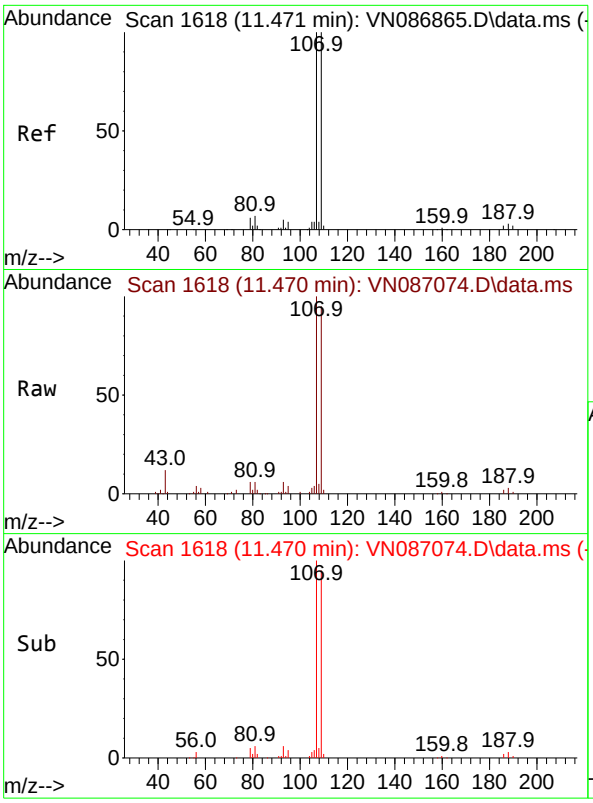


#60
Dibromochloromethane
Concen: 52.974 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:129 Resp: 141610

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	115.8

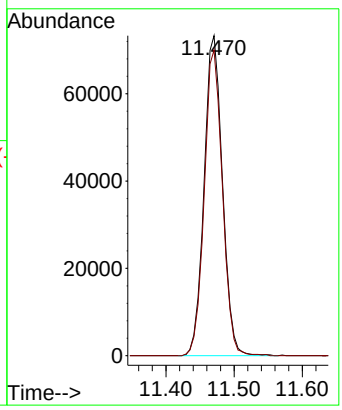




#61
1,2-Dibromoethane
Concen: 52.202 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:107 Resp: 13728

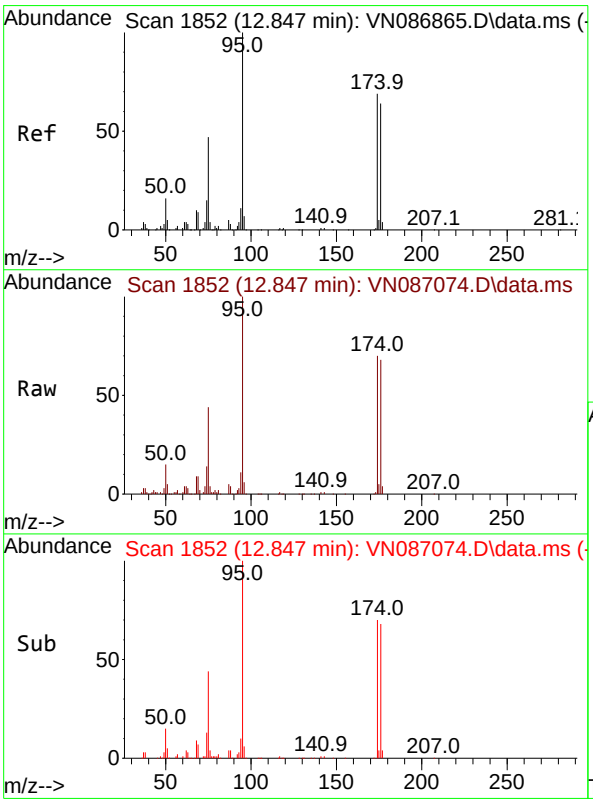
Ion	Ratio	Lower	Upper
107	100		
109	94.3	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

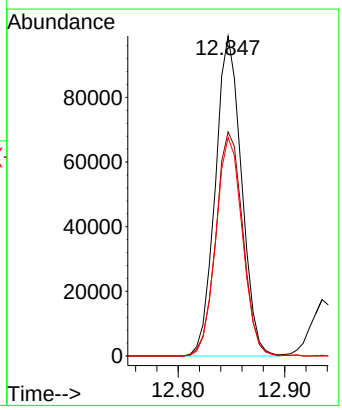
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

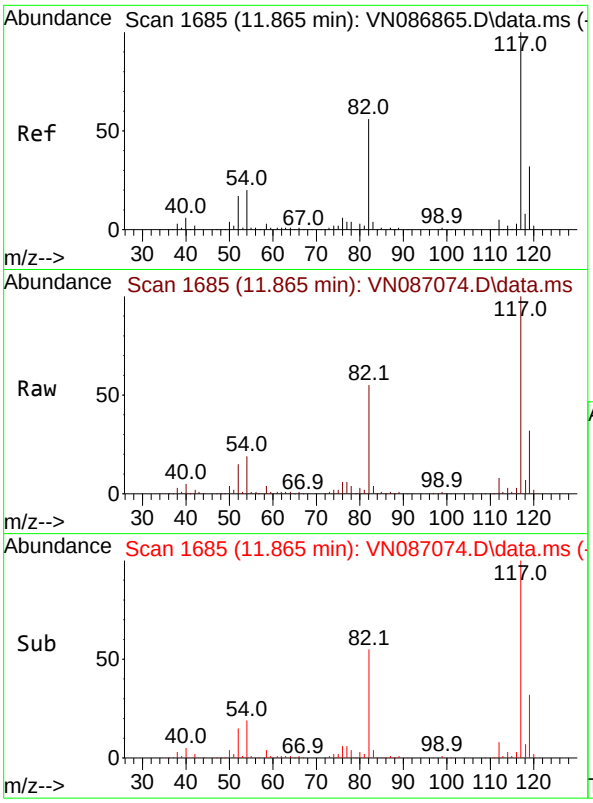


#62
4-Bromofluorobenzene
Concen: 51.228 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 95 Resp: 168714

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	141.8
176	69.4	0.0	132.6

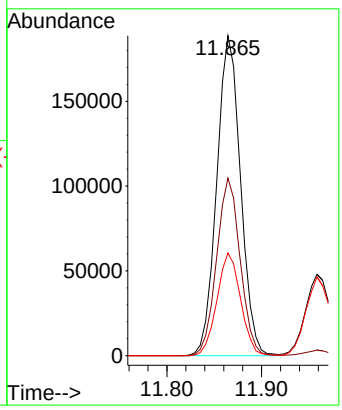




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:117 Resp: 33001

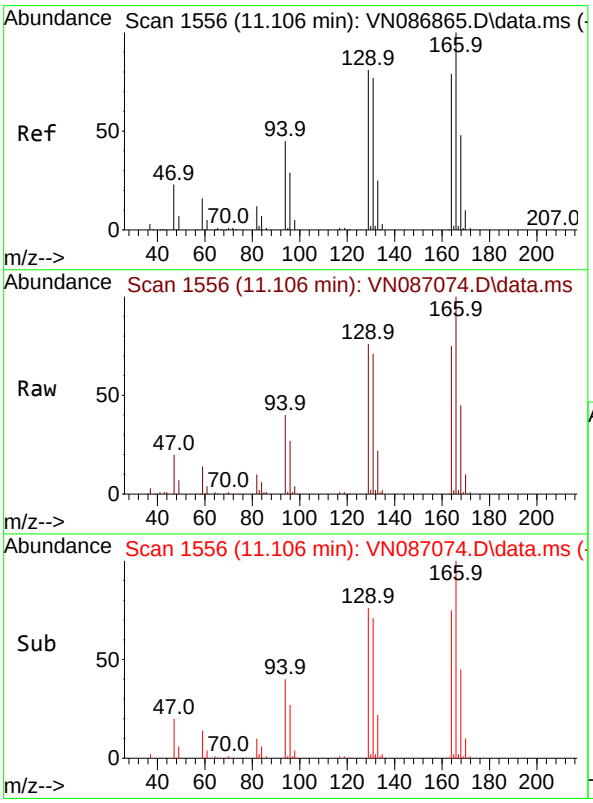
Ion	Ratio	Lower	Upper
117	100		
82	55.5	44.6	67.0
119	32.1	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

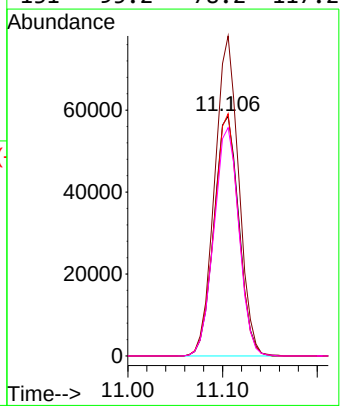
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

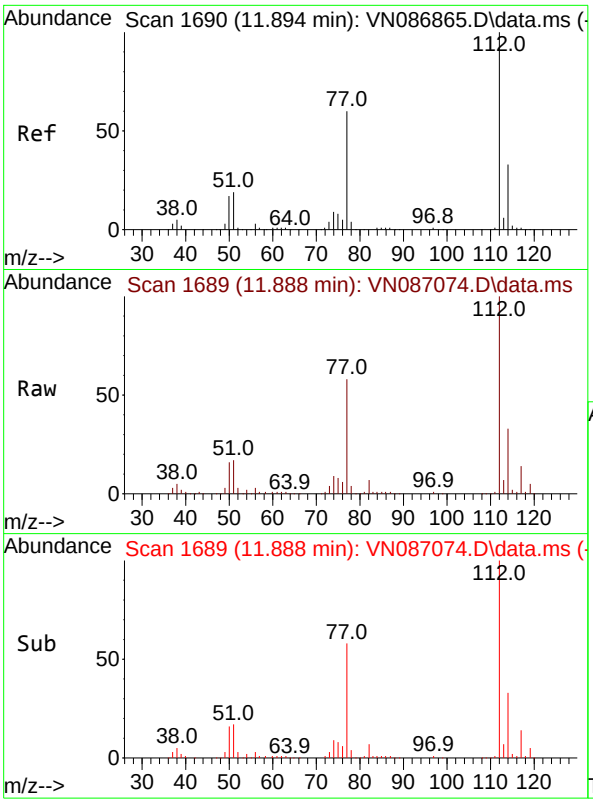


#64
Tetrachloroethene
Concen: 51.300 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:164 Resp: 107143

Ion	Ratio	Lower	Upper
164	100		
166	133.5	101.8	152.8
129	101.1	83.0	124.4
131	95.2	78.2	117.2

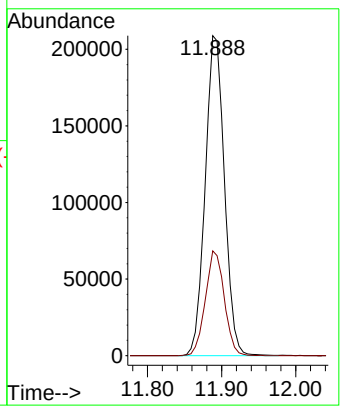




#65
Chlorobenzene
Concen: 51.632 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:112 Resp: 37580

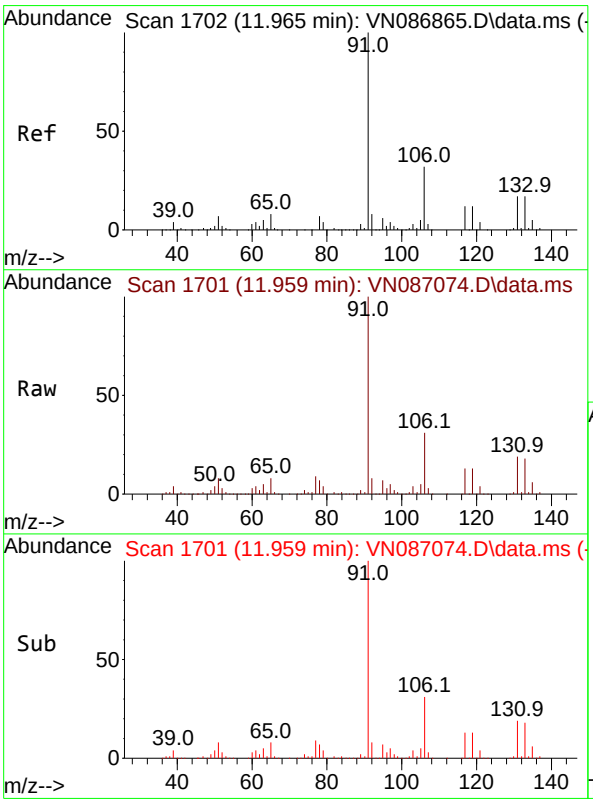
Ion	Ratio	Lower	Upper
112	100		
114	32.8	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

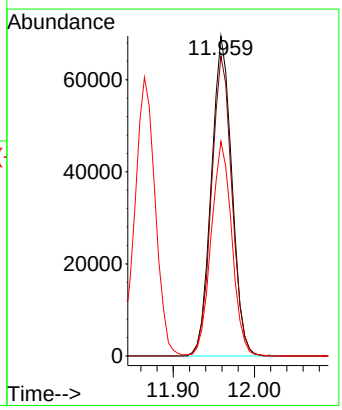
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

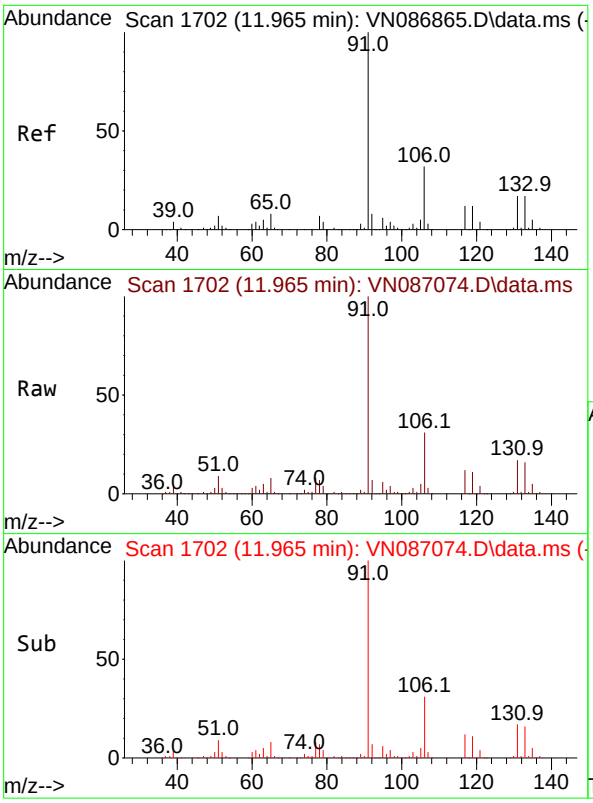


#66
1,1,1,2-Tetrachloroethane
Concen: 52.079 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:131 Resp: 121849

Ion	Ratio	Lower	Upper
131	100		
133	93.9	48.3	144.8
119	67.8	34.0	101.8

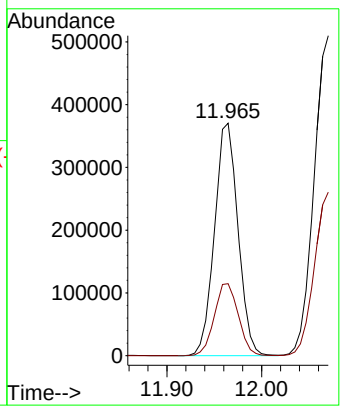




#67
Ethyl Benzene
Concen: 50.882 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 91 Resp: 63792

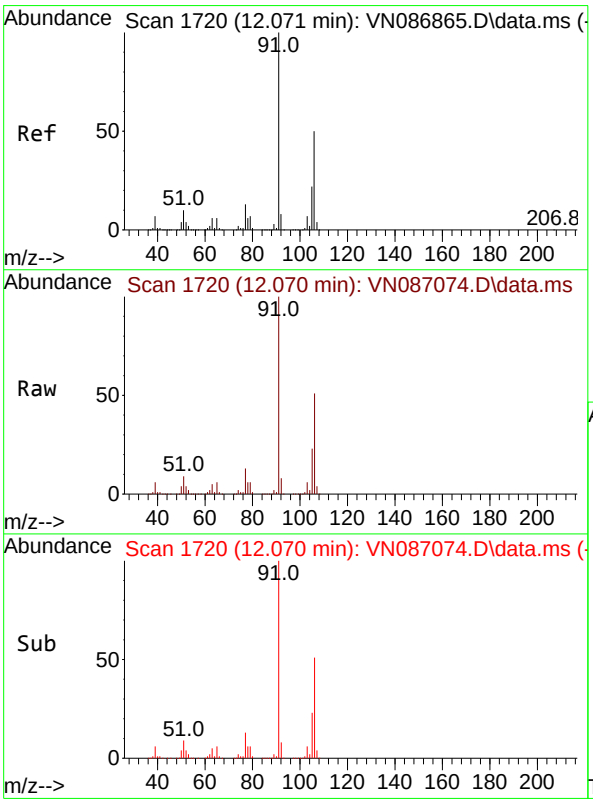
Ion	Ratio	Lower	Upper
91	100		
106	31.0	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

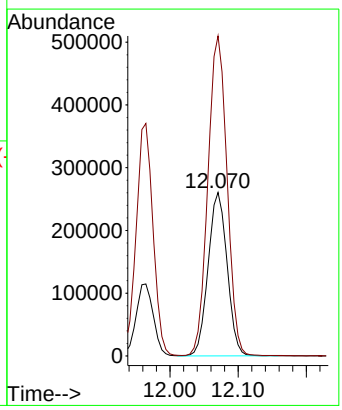
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

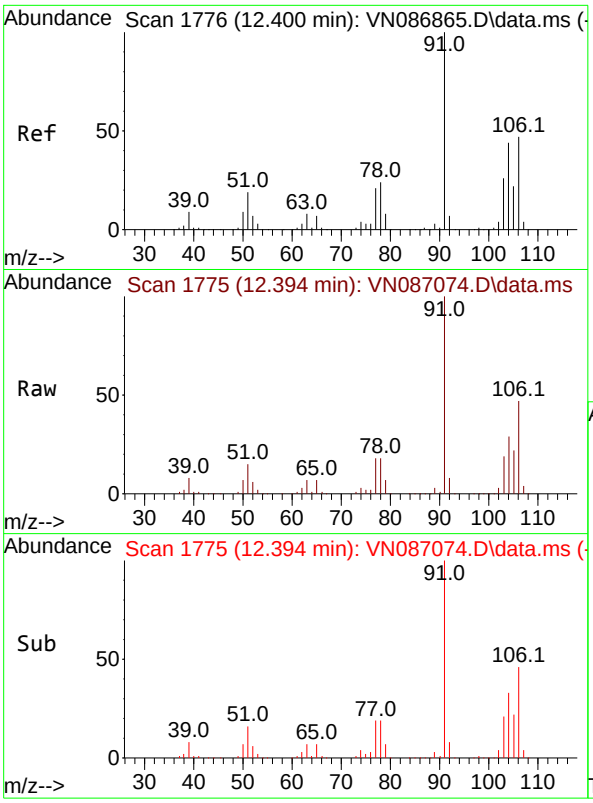


#68
m/p-Xylenes
Concen: 105.015 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:106 Resp: 503996

Ion	Ratio	Lower	Upper
106	100		
91	197.2	159.4	239.0

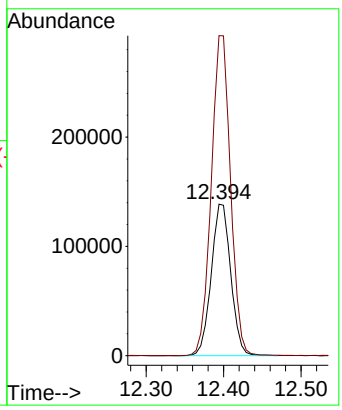




#69
o-Xylene
Concen: 52.589 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:106 Resp: 24172

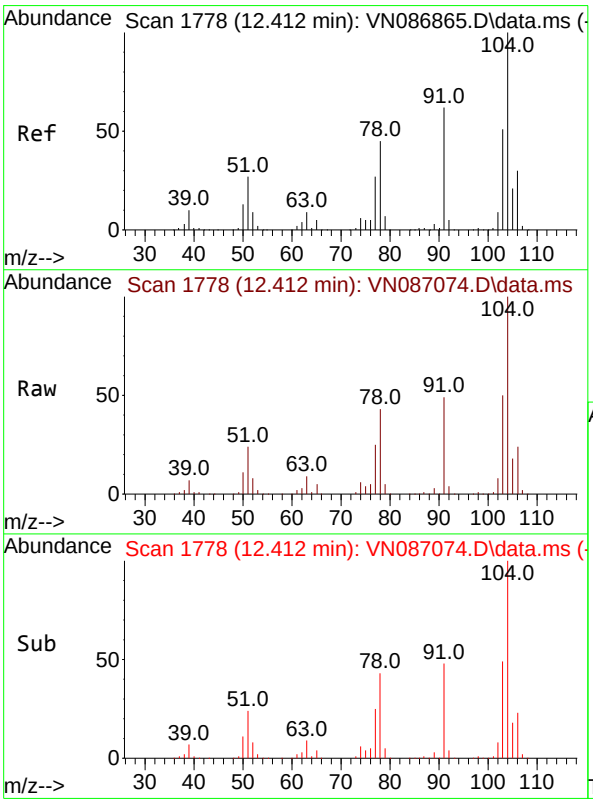
Ion	Ratio	Lower	Upper
106	100		
91	209.4	106.1	318.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

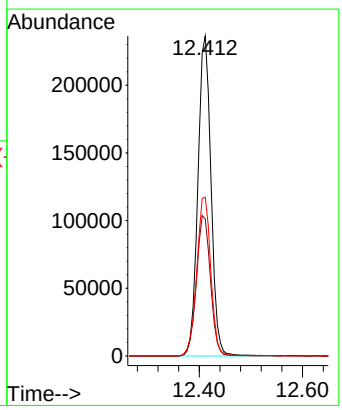
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

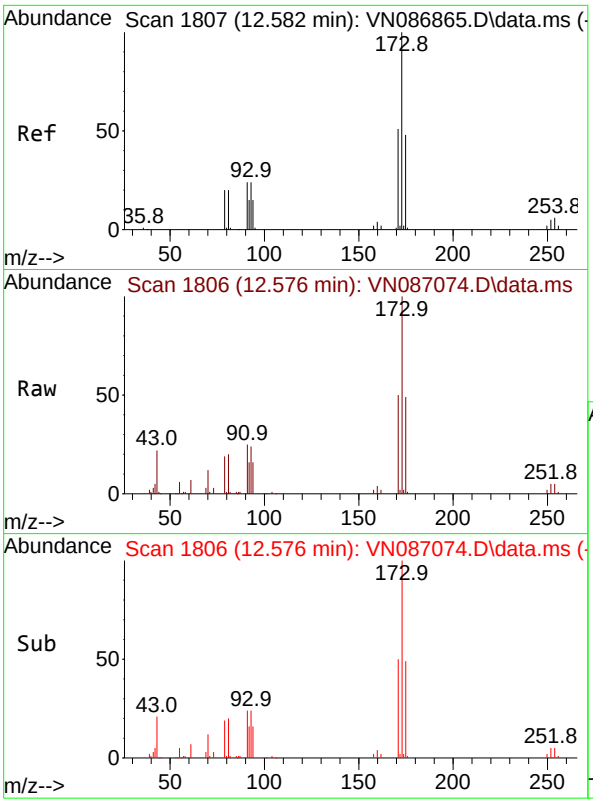


#70
Styrene
Concen: 52.934 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:104 Resp: 416344

Ion	Ratio	Lower	Upper
104	100		
78	47.1	38.5	57.7
103	53.2	43.1	64.7





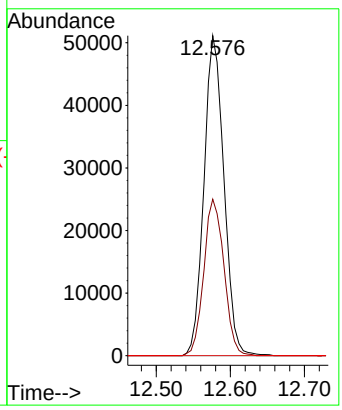
#71
Bromoform
Concen: 55.217 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

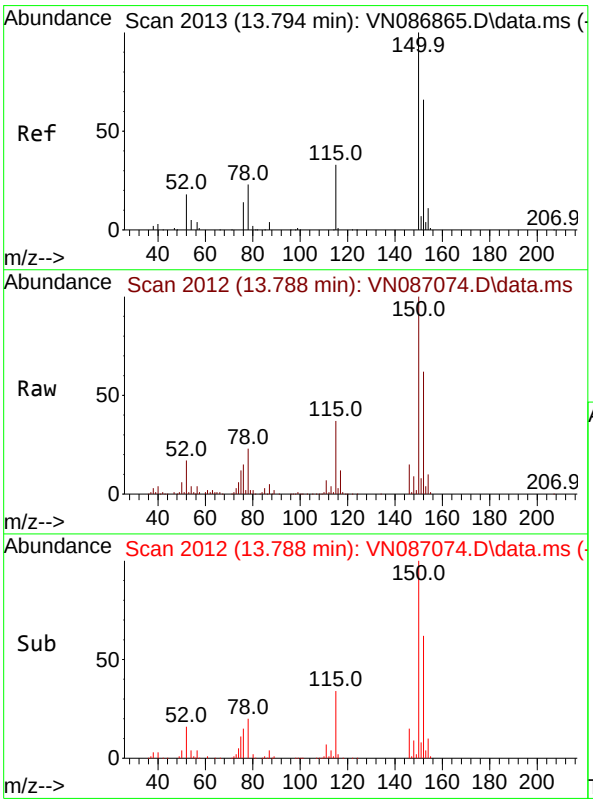
Tgt Ion:173 Resp: 9572

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.1	72.4
254	0.0	0.0	0.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

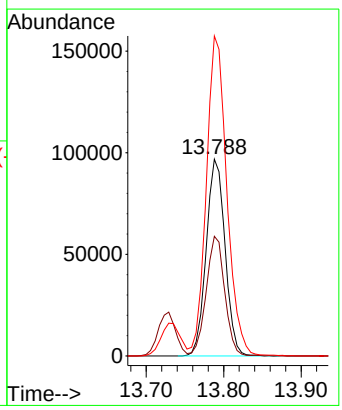


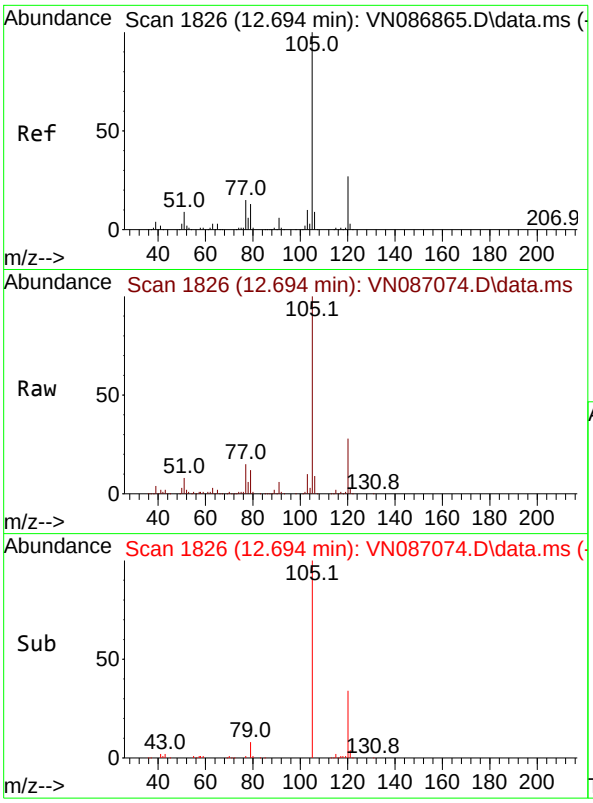


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:152 Resp: 164001

Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.1	90.5
150	177.1	0.0	345.0

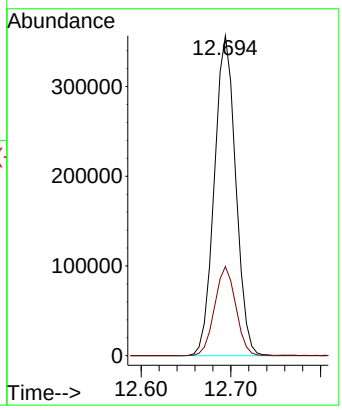




#73
Isopropylbenzene
Concen: 49.378 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:105 Resp: 58995

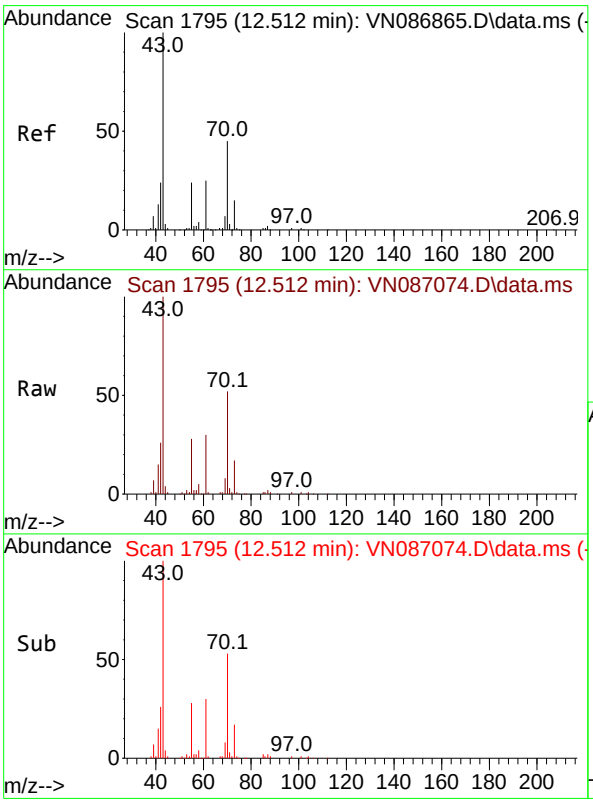
Ion	Ratio	Lower	Upper
105	100		
120	27.5	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

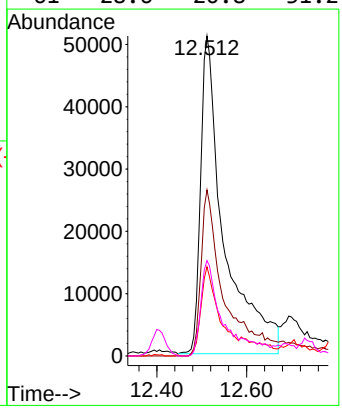
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

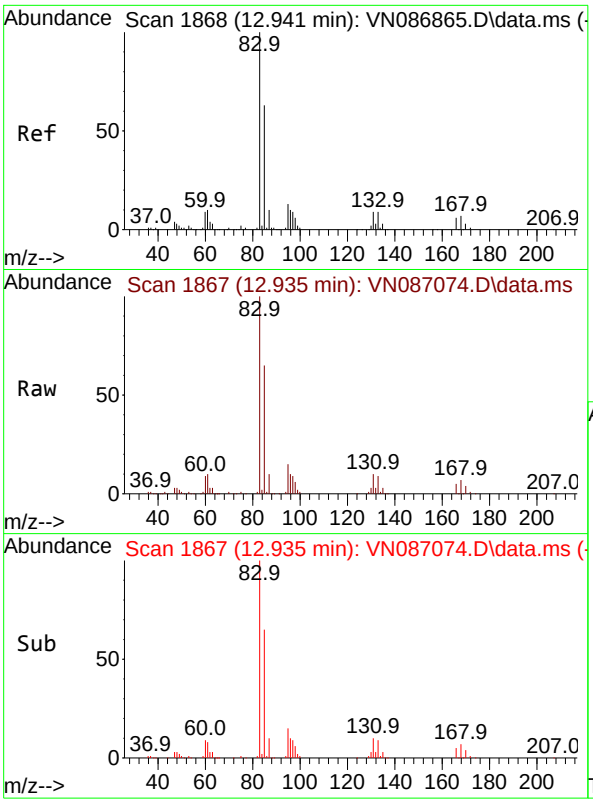


#74
N-amyl acetate
Concen: 44.506 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 43 Resp: 185811

Ion	Ratio	Lower	Upper
43	100		
70	51.4	37.6	56.4
55	21.8	19.0	28.6
61	28.6	20.8	31.2





#75
1,1,2,2-Tetrachloroethane
Concen: 49.861 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

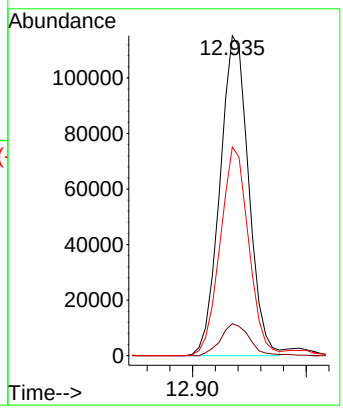
Tgt Ion: 83 Resp: 20181

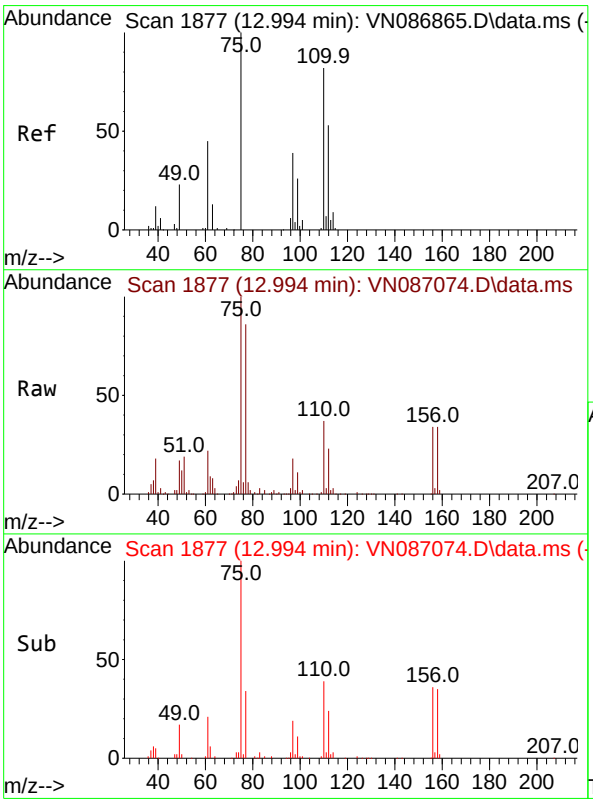
Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.9	14.7
85	65.1	32.0	96.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

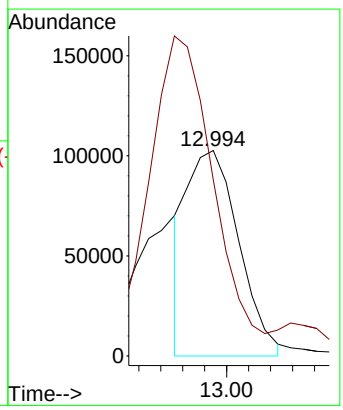


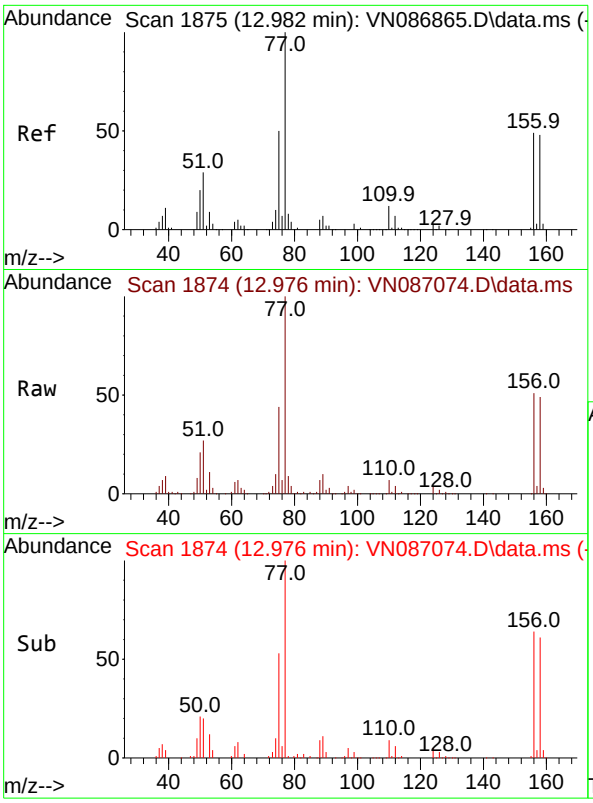


#76
1,2,3-Trichloropropane
Concen: 43.352 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 75 Resp: 169002

Ion	Ratio	Lower	Upper
75	100		
77	194.7	79.3	237.9

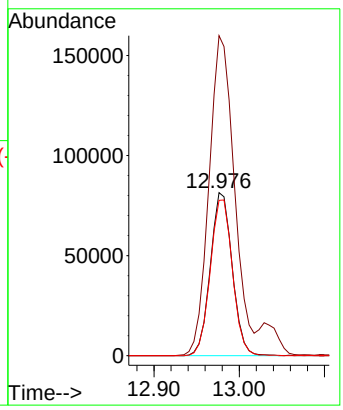




#77
Bromobenzene
Concen: 52.988 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:156 Resp: 14518

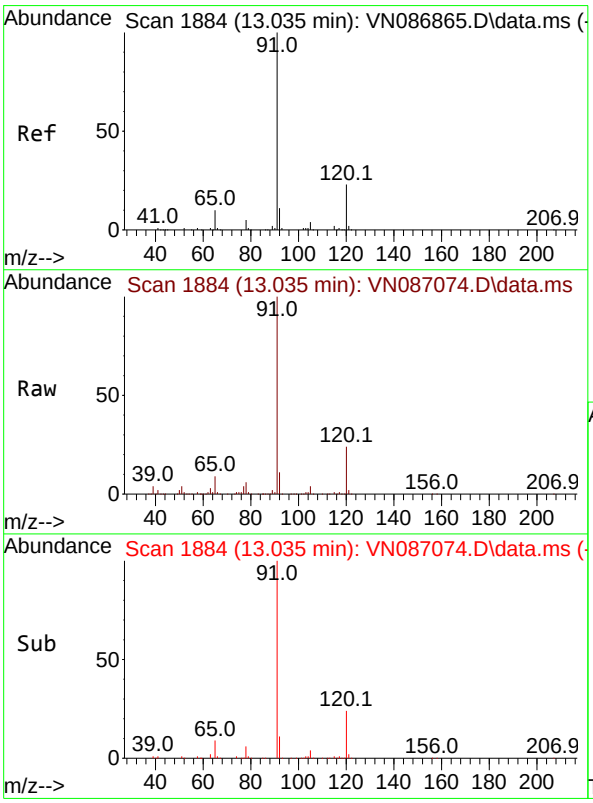
Ion	Ratio	Lower	Upper
156	100		
77	226.6	117.7	353.1
158	97.1	48.1	144.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

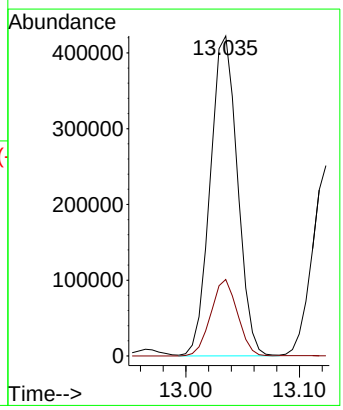
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

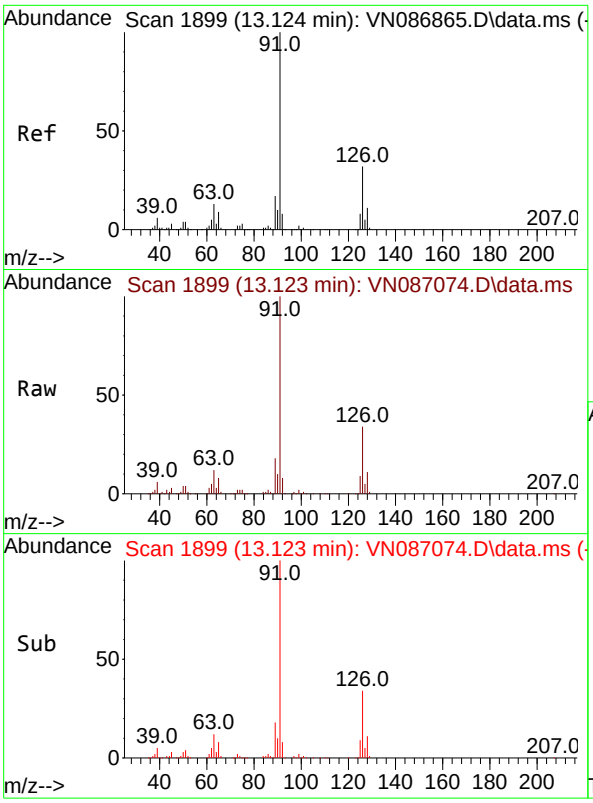


#78
n-propylbenzene
Concen: 48.505 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 91 Resp: 704268

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.4	34.2

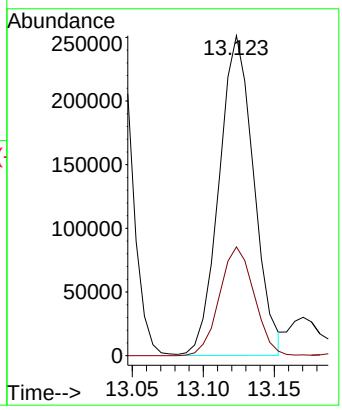




#79
2-Chlorotoluene
Concen: 49.053 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 91 Resp: 42713

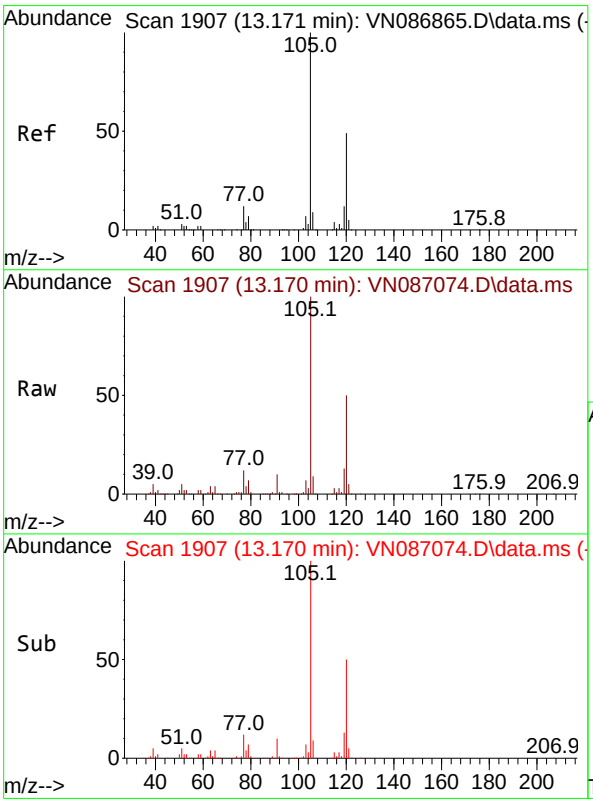
Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.2	48.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

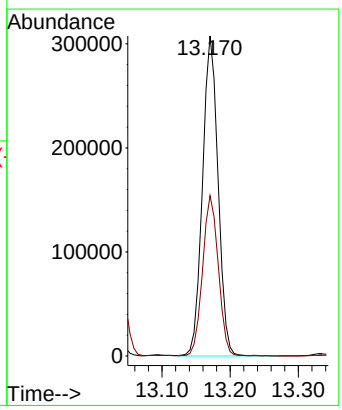
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

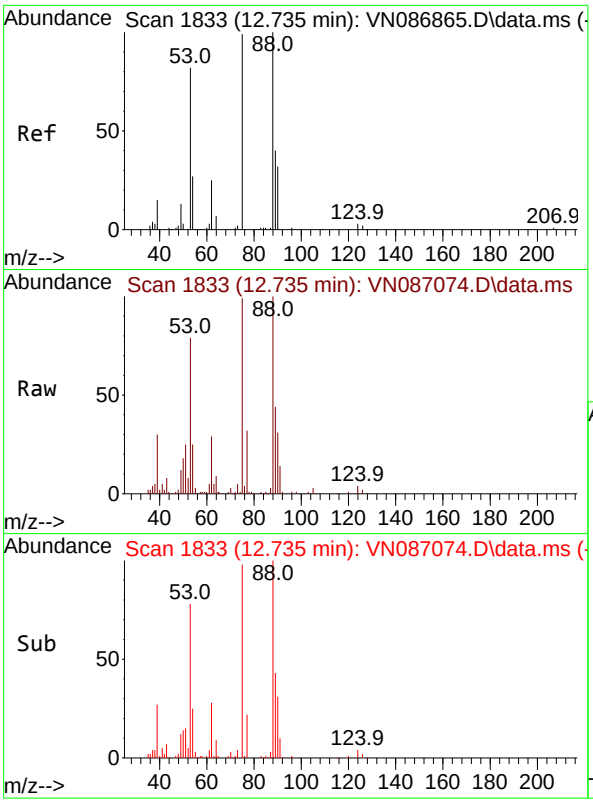


#80
1,3,5-Trimethylbenzene
Concen: 49.603 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:105 Resp: 489295

Ion	Ratio	Lower	Upper
105	100		
120	50.5	24.9	74.6

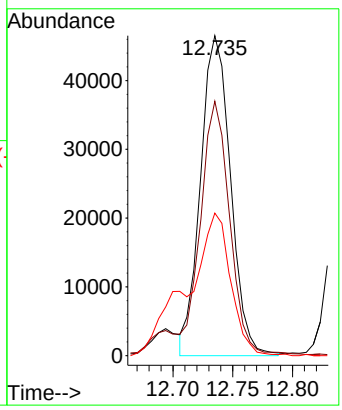




#81
trans-1,4-Dichloro-2-butene
Concen: 48.208 ug/l m
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 75 Resp: 8164

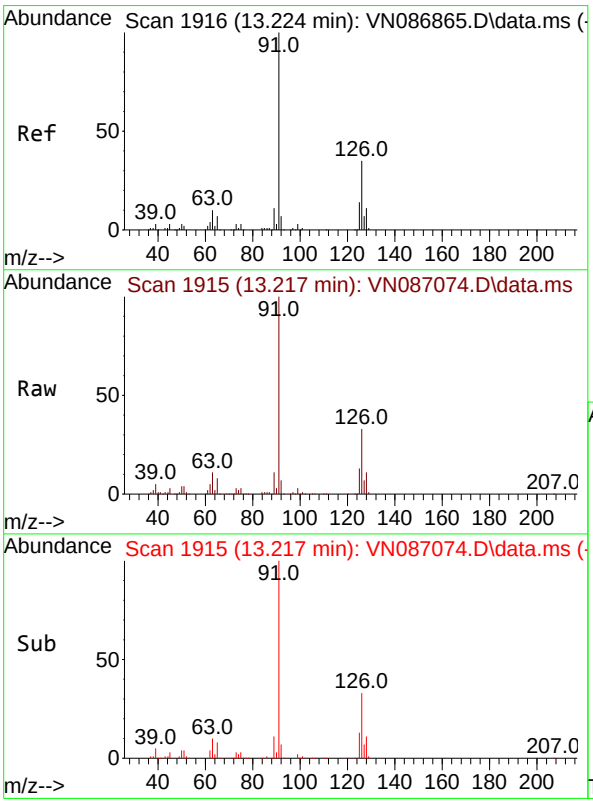
Ion	Ratio	Lower	Upper
75	100		
53	77.8	66.6	99.8
89	64.8	36.7	55.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

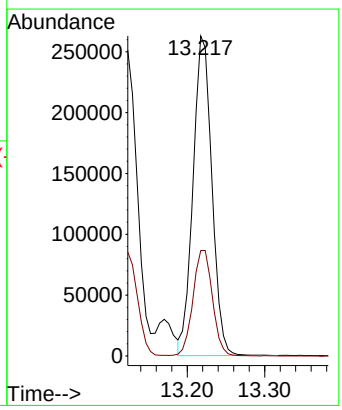
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

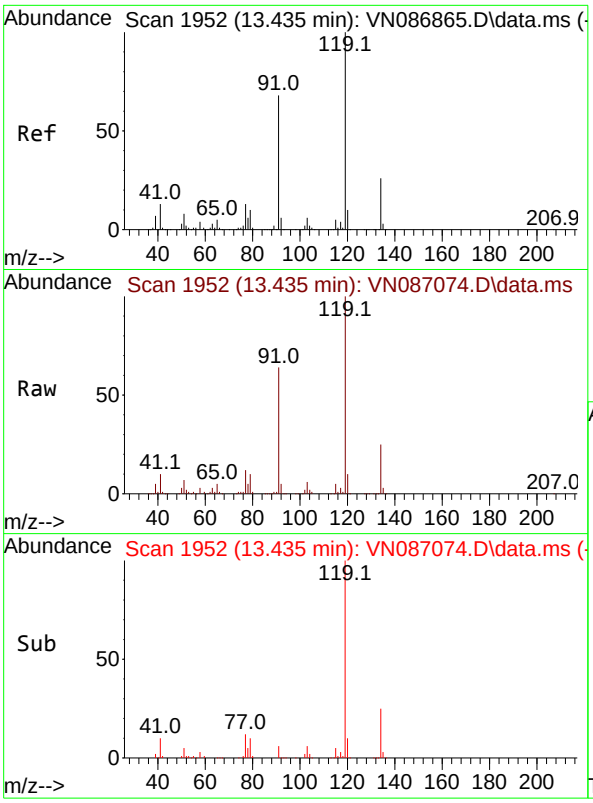


#82
4-Chlorotoluene
Concen: 50.317 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 91 Resp: 443322

Ion	Ratio	Lower	Upper
91	100		
126	34.3	16.7	50.1

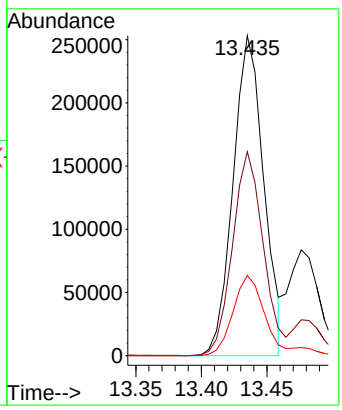




#83
tert-Butylbenzene
Concen: 45.624 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:119 Resp: 41196

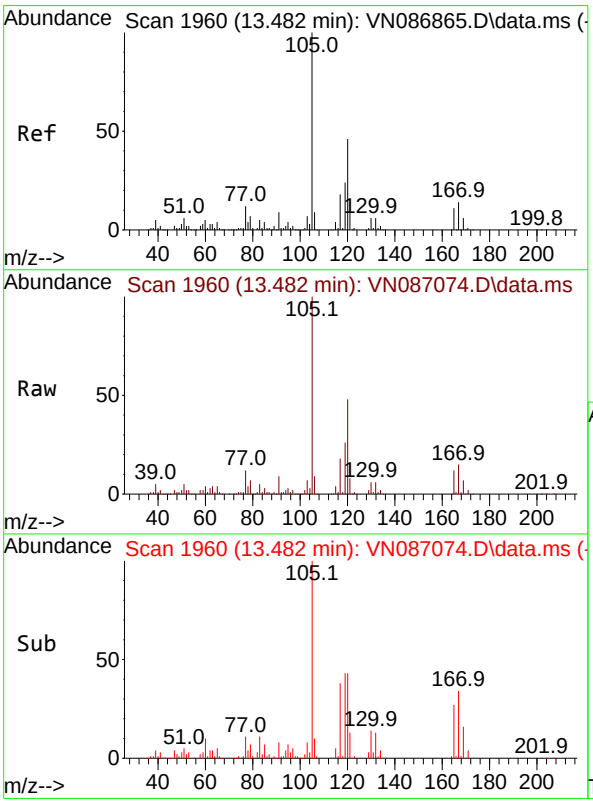
Ion	Ratio	Lower	Upper
119	100		
91	64.2	32.1	96.5
134	27.4	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

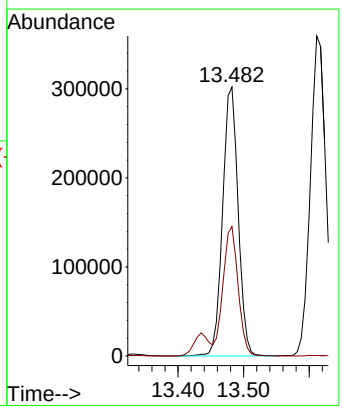
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

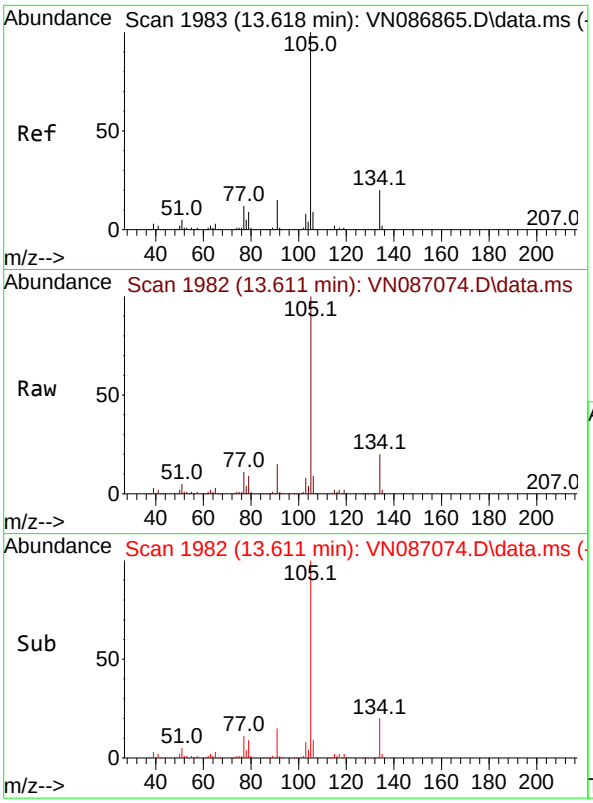


#84
1,2,4-Trimethylbenzene
Concen: 50.084 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:105 Resp: 495408

Ion	Ratio	Lower	Upper
105	100		
120	46.9	23.2	69.6





#85
sec-Butylbenzene
Concen: 45.019 ug/l
RT: 13.611 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

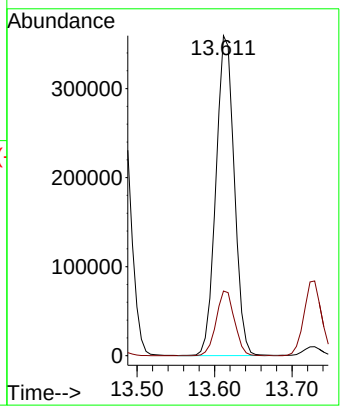
Tgt Ion:105 Resp: 59031

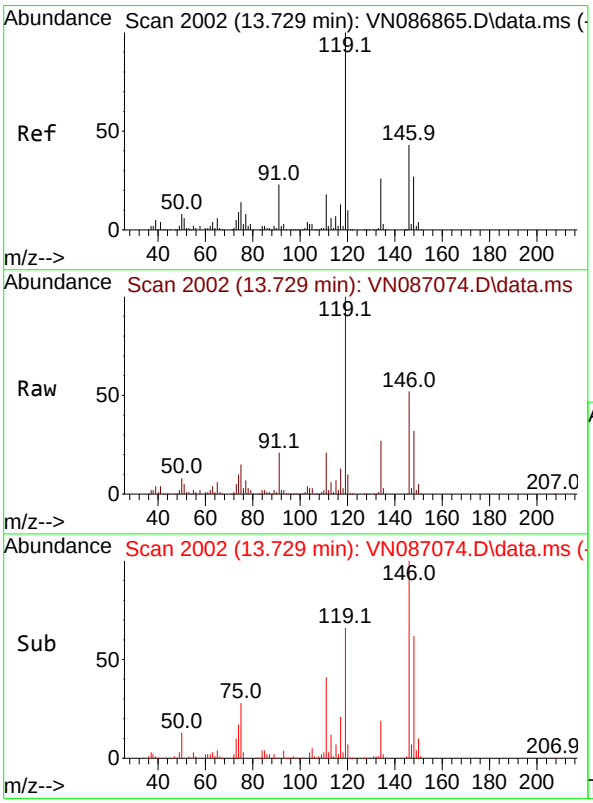
Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

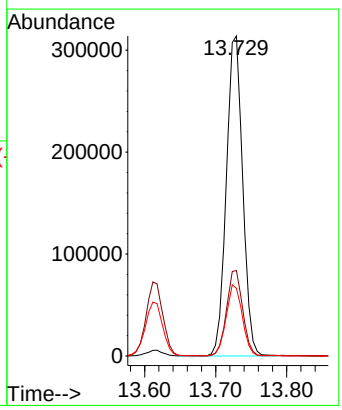


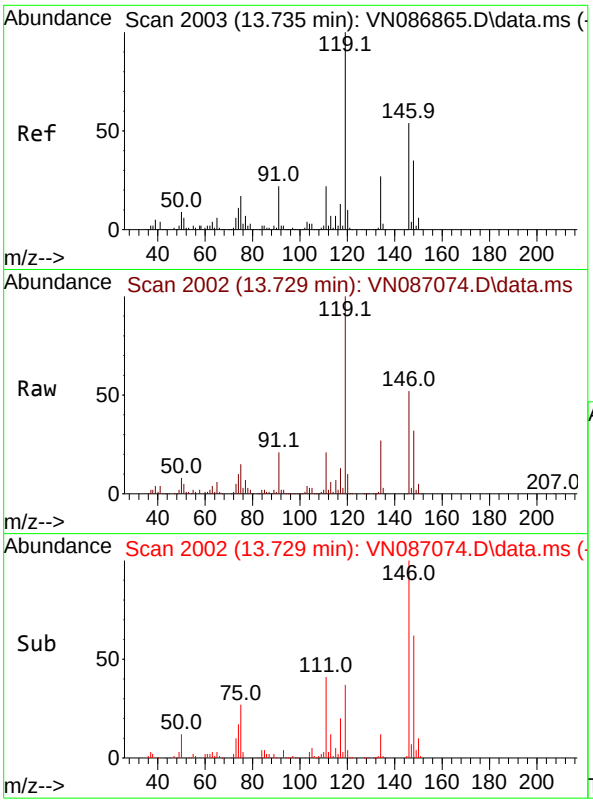


#86
p-Isopropyltoluene
Concen: 46.356 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:119 Resp: 502465

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.5	40.4
91	21.8	11.5	34.4

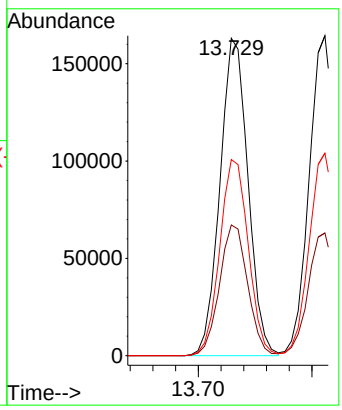




#87
1,3-Dichlorobenzene
Concen: 51.871 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:146 Resp: 27963

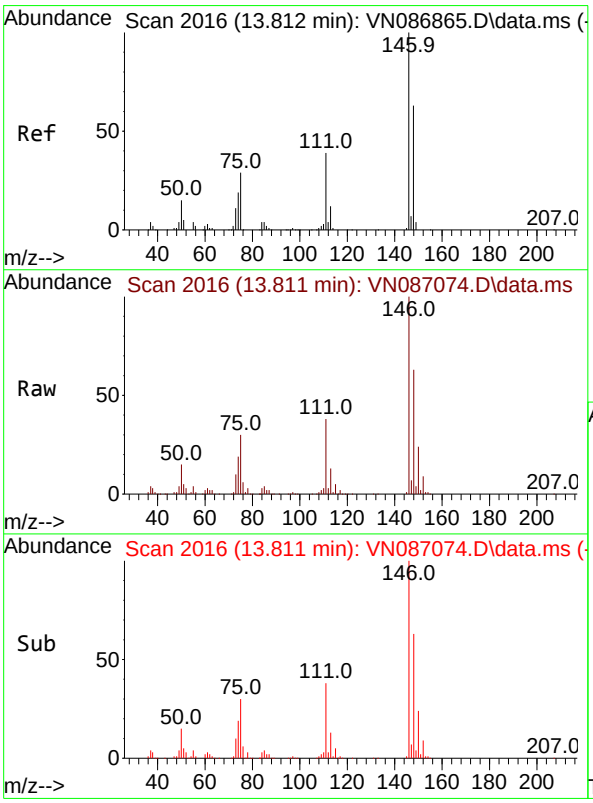
Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.9	62.8
148	62.9	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

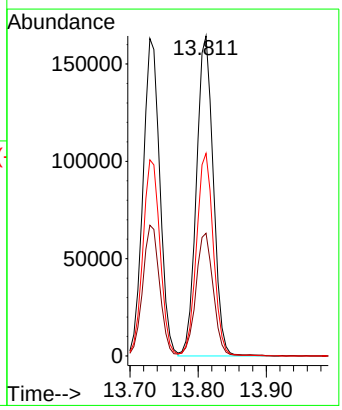
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

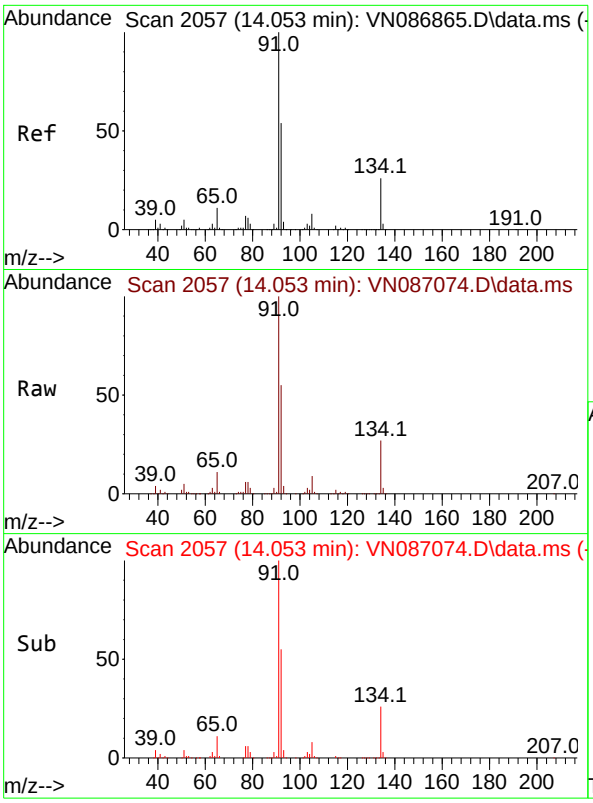


#88
1,4-Dichlorobenzene
Concen: 51.398 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:146 Resp: 282492

Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.9	59.7
148	63.4	31.8	95.4

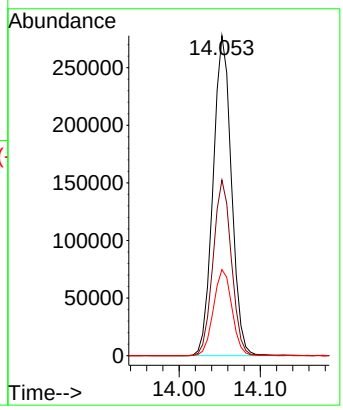




#89
n-Butylbenzene
Concen: 41.655 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

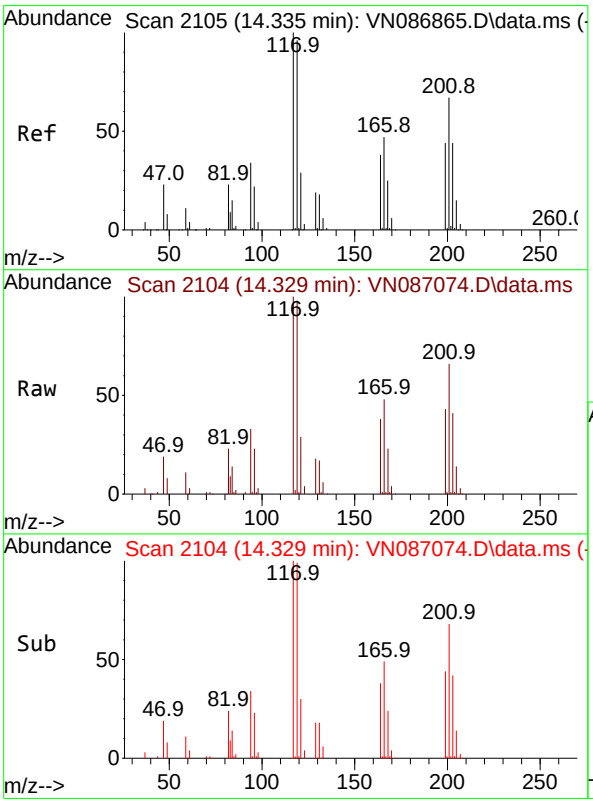
Tgt Ion: 91 Resp: 43734

Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.5	82.4
134	27.1	13.0	39.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

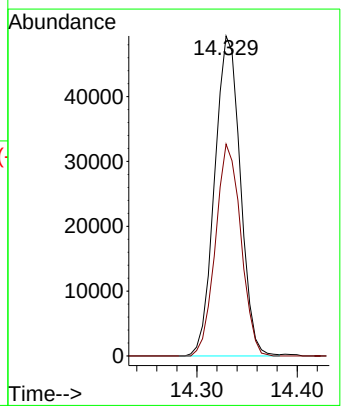
Manual Integrations APPROVED
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

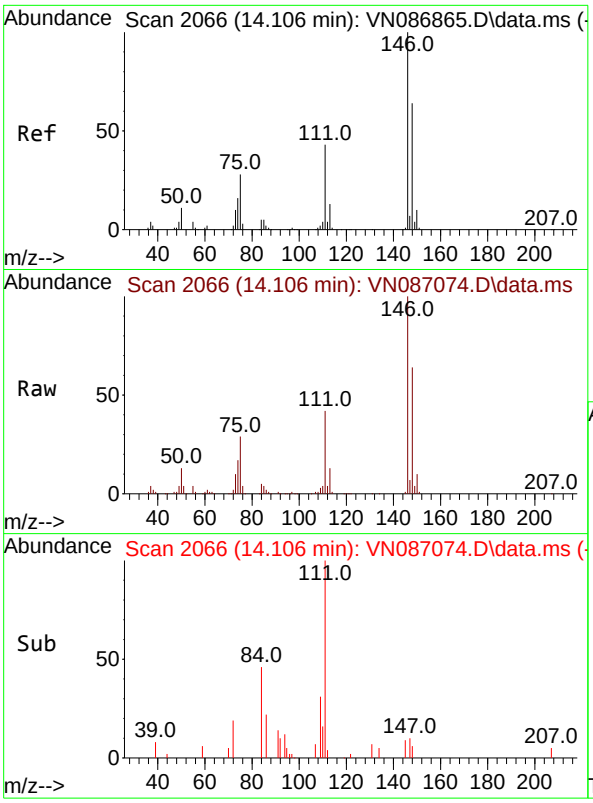


#90
Hexachloroethane
Concen: 47.628 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:117 Resp: 87508

Ion	Ratio	Lower	Upper
117	100		
201	65.5	33.2	99.6

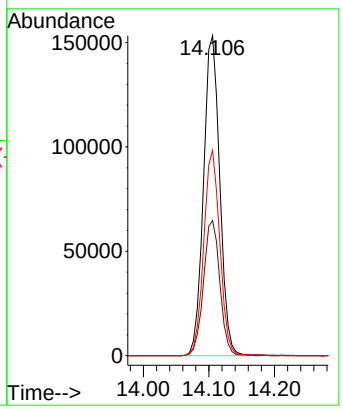




#91
1,2-Dichlorobenzene
Concen: 51.121 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:146 Resp: 26477

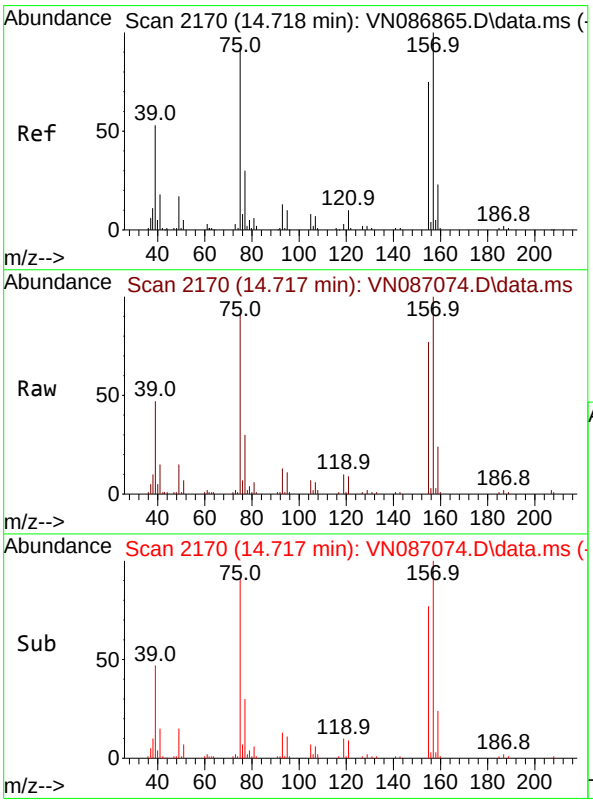
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.6	64.6
148	63.5	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

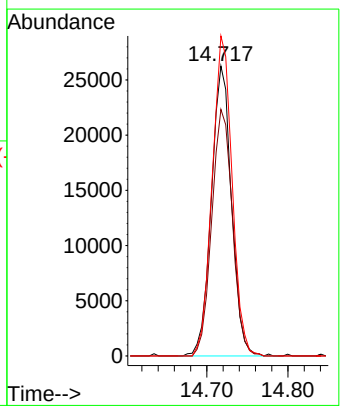
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

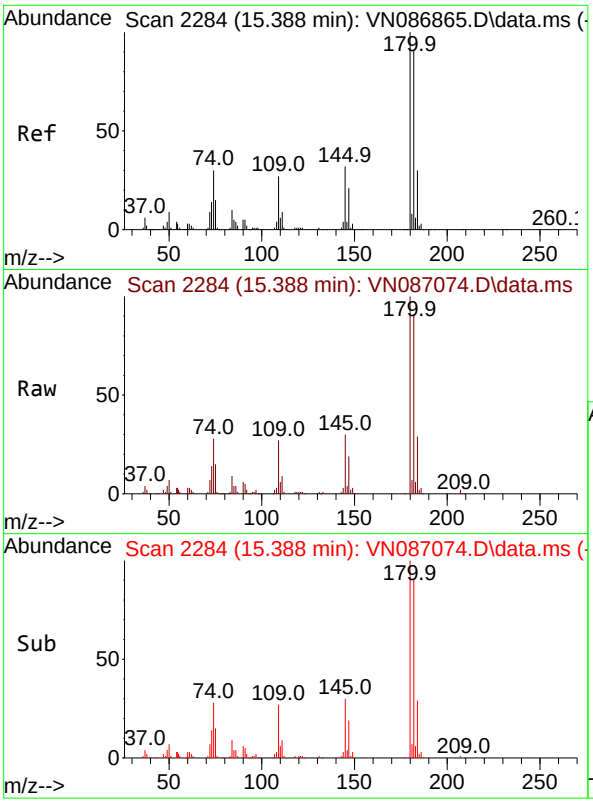


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.814 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 75 Resp: 45316

Ion	Ratio	Lower	Upper
75	100		
155	86.9	41.1	123.4
157	109.2	52.7	158.1





#93
1,2,4-Trichlorobenzene
Concen: 44.615 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

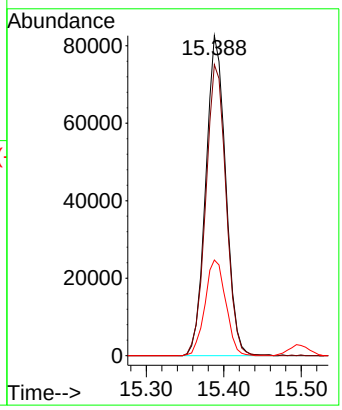
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

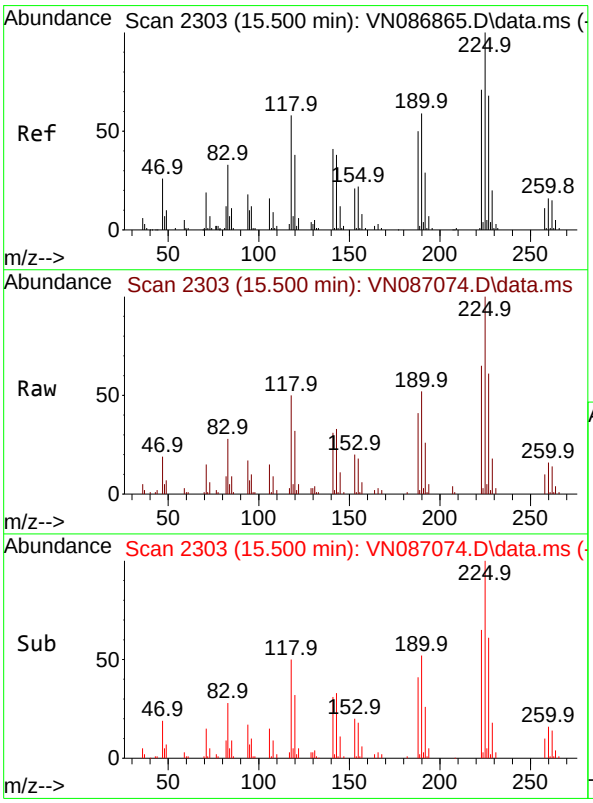
Tgt Ion:180 Resp: 14755

Ion	Ratio	Lower	Upper
180	100		
182	92.6	46.9	140.7
145	31.2	16.0	47.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

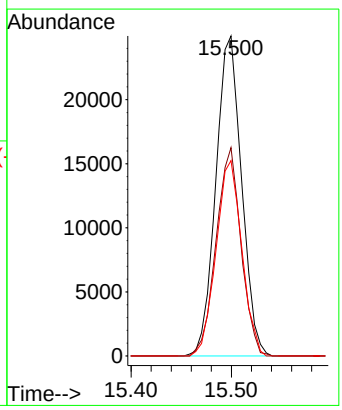


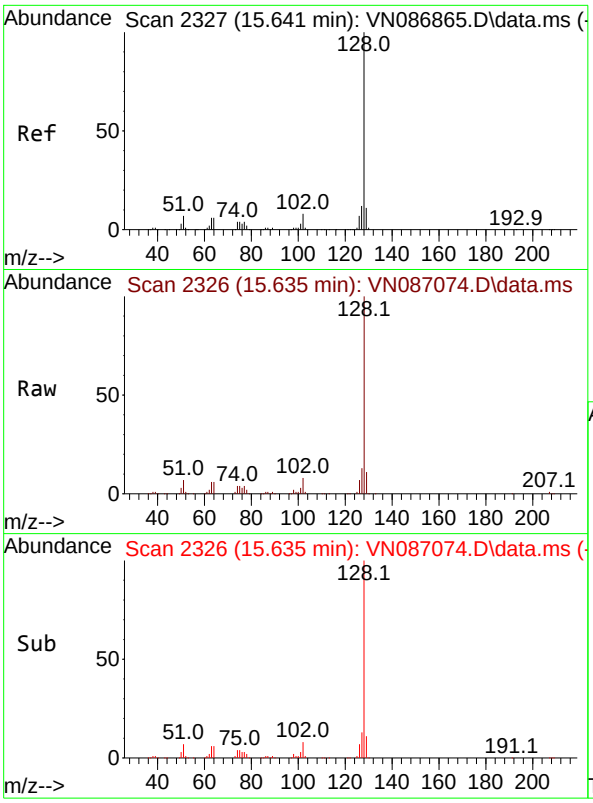


#94
Hexachlorobutadiene
Concen: 36.072 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:225 Resp: 44448

Ion	Ratio	Lower	Upper
225	100		
223	62.9	33.5	100.4
227	61.0	31.1	93.5

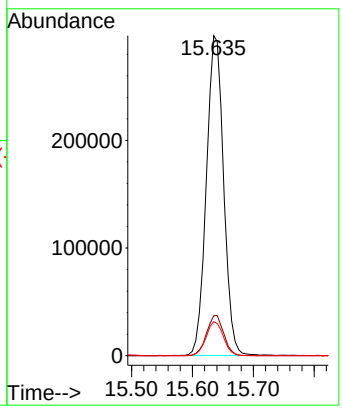




#95
Naphthalene
Concen: 47.478 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:128 Resp: 58446

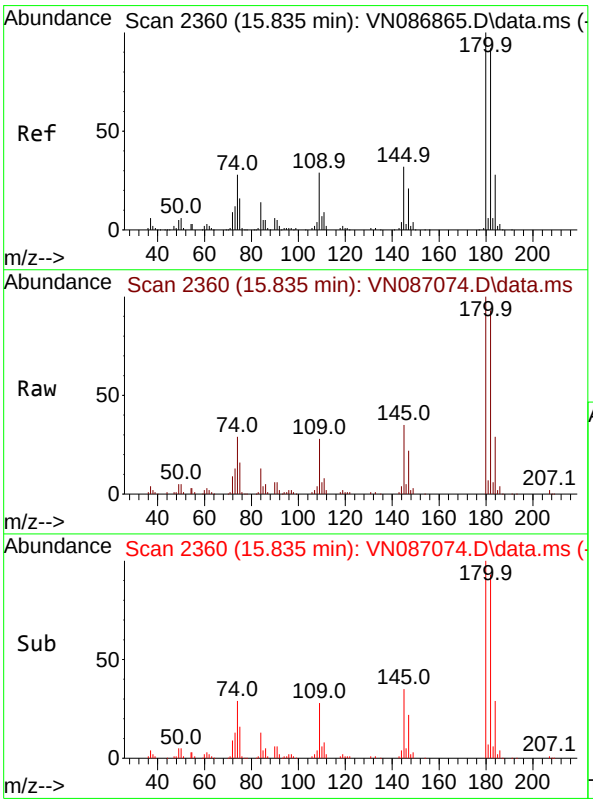
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	10.7	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

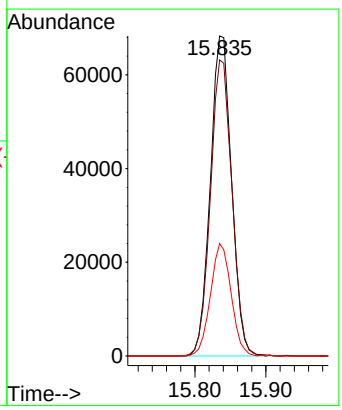
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 43.093 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:180 Resp: 141602

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.0	141.0
145	34.2	16.6	49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	0.499	0.516	-3.4	108	0.00
3	P	Chloromethane	0.644	0.551	14.4	97	0.00
4	C	Vinyl Chloride	0.664	0.705	-6.2#	115	0.00
5	T	Bromomethane	0.372	0.373	-0.3	110	0.00
6	T	Chloroethane	0.429	0.449	-4.7	115	0.00
7	T	Trichlorofluoromethane	0.868	0.904	-4.1	114	0.00
8	T	Diethyl Ether	0.378	0.381	-0.8	110	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.545	0.568	-4.2	115	0.00
10	T	Methyl Iodide	0.707	0.500	29.3#	77	0.01
11	T	Tert butyl alcohol	0.182	0.153	15.9	91	-0.01
12	CM	1,1-Dichloroethene	0.557	0.578	-3.8#	114	0.00
13	T	Acrolein	0.057	0.038	33.3#	87	0.00
14	T	Allyl chloride	0.923	0.832	9.9	101	0.00
15	T	Acrylonitrile	0.425	0.389	8.5	100	0.00
16	T	Acetone	0.355	0.348	2.0	113	0.00
17	T	Carbon Disulfide	1.539	1.665	-8.2	122	0.00
18	T	Methyl Acetate	1.035	0.810	21.7	86	0.00
19	T	Methyl tert-butyl Ether	2.015	1.968	2.3	107	0.00
20	T	Methylene Chloride	0.665	0.647	2.7	112	0.00
21	T	trans-1,2-Dichloroethene	0.619	0.624	-0.8	115	0.00
22	T	Diisopropyl ether	1.945	1.775	8.7	100	0.00
23	T	Vinyl Acetate	1.644	1.560	5.1	103	0.00
24	P	1,1-Dichloroethane	1.120	1.103	1.5	109	0.00
25	T	2-Butanone	0.577	0.489	15.3	93	0.00
26	T	2,2-Dichloropropane	0.871	0.967	-11.0	112	0.00
27	T	cis-1,2-Dichloroethene	0.740	0.736	0.5	110	0.00
28	T	Bromochloromethane	0.550	0.488	11.3	110	0.00
29	T	Tetrahydrofuran	0.376	0.318	15.4	93	0.00
30	C	Chloroform	1.118	1.081	3.3#	107	0.00
31	T	Cyclohexane	1.086	0.982	9.6	102	0.00
32	T	1,1,1-Trichloroethane	0.951	0.924	2.8	108	0.00
33	S	1,2-Dichloroethane-d4	0.669	0.621	7.2	130	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35	S	Dibromofluoromethane	0.296	0.316	-6.8	144	0.00
36	T	1,1-Dichloropropene	0.442	0.467	-5.7	111	0.00
37	T	Ethyl Acetate	0.562	0.531	5.5	99	0.00
38	T	Carbon Tetrachloride	0.433	0.450	-3.9	110	0.00
39	T	Methylcyclohexane	0.605	0.545	9.9	95	0.00
40	TM	Benzene	1.444	1.468	-1.7	109	0.00
41	T	Methacrylonitrile	0.316	0.279	11.7	92	0.00
42	TM	1,2-Dichloroethane	0.438	0.435	0.7	105	0.00
43	T	Isopropyl Acetate	0.902	0.816	9.5	95	0.00
44	TM	Trichloroethene	0.342	0.365	-6.7	111	0.00
45	C	1,2-Dichloropropane	0.351	0.360	-2.6#	108	0.00
46	T	Dibromomethane	0.233	0.248	-6.4	112	0.00
47	T	Bromodichloromethane	0.480	0.491	-2.3	107	0.00
48	T	Methyl methacrylate	0.415	0.381	8.2	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.008	0.007	12.5	92	0.00
50	S	Toluene-d8	1.173	1.162	0.9	135	0.00
51	T	4-Methyl-2-Pentanone	0.543	0.504	7.2	94	0.00
52	CM	Toluene	0.882	0.913	-3.5#	109	0.00
53	T	t-1,3-Dichloropropene	0.537	0.563	-4.8	108	0.00
54	T	cis-1,3-Dichloropropene	0.574	0.605	-5.4	110	0.00
55	T	1,1,2-Trichloroethane	0.340	0.346	-1.8	107	0.00
56	T	Ethyl methacrylate	0.541	0.579	-7.0	104	0.00
57	T	1,3-Dichloropropane	0.589	0.595	-1.0	106	0.00
58	T	2-Chloroethyl Vinyl ether	0.323	0.302	6.5	110	0.00
59	T	2-Hexanone	0.350	0.340	2.9	92	0.00
60	T	Dibromochloromethane	0.354	0.375	-5.9	110	0.00
61	T	1,2-Dibromoethane	0.348	0.363	-4.3	110	0.00
62	S	4-Bromofluorobenzene	0.436	0.447	-2.5	137	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64	T	Tetrachloroethene	0.316	0.325	-2.8	110	0.00
65	PM	Chlorobenzene	1.103	1.139	-3.3	110	0.00
66	T	1,1,1,2-Tetrachloroethane	0.354	0.369	-4.2	108	0.00
67	C	Ethyl Benzene	1.899	1.933	-1.8#	107	0.00
68	T	m/p-Xylenes	0.727	0.764	-5.1	108	0.00
69	T	o-Xylene	0.696	0.732	-5.2	108	0.00
70	T	Styrene	1.192	1.262	-5.9	108	0.00
71	P	Bromoform	0.263	0.290	-10.3	109	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	3.643	3.597	1.3	103	0.00
74	T	N-amyl acetate	1.273	1.133	11.0	88	0.00
75	P	1,1,2,2-Tetrachloroethane	1.234	1.231	0.2	102	0.00
76	T	1,2,3-Trichloropropane	1.189	1.030	13.4	86	0.00
77	T	Bromobenzene	0.835	0.885	-6.0	110	0.00
78	T	n-propylbenzene	4.427	4.294	3.0	100	0.00
79	T	2-Chlorotoluene	2.655	2.604	1.9	102	0.00
80	T	1,3,5-Trimethylbenzene	3.007	2.983	0.8	101	0.00
81	T	trans-1,4-Dichloro-2-butene	0.516	0.498	3.5	102	0.00
82	T	4-Chlorotoluene	2.686	2.703	-0.6	105	0.00
83	T	tert-Butylbenzene	2.753	2.512	8.8	94	0.00
84	T	1,2,4-Trimethylbenzene	3.016	3.021	-0.2	101	0.00
85	T	sec-Butylbenzene	3.998	3.599	10.0	92	0.00
86	T	p-Isopropyltoluene	3.305	3.064	7.3	94	0.00
87	T	1,3-Dichlorobenzene	1.644	1.705	-3.7	107	0.00
88	T	1,4-Dichlorobenzene	1.676	1.723	-2.8	107	0.00
89	T	n-Butylbenzene	3.201	2.667	16.7	85	0.00
90	T	Hexachloroethane	0.560	0.534	4.6	97	0.00
91	T	1,2-Dichlorobenzene	1.579	1.614	-2.2	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.295	0.276	6.4	100	0.00
93	T	1,2,4-Trichlorobenzene	1.008	0.900	10.7	91	0.00
94	T	Hexachlorobutadiene	0.376	0.271	27.9#	73	0.00
95	T	Naphthalene	3.753	3.564	5.0	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	0.863	13.9	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	50.000	51.737	-3.5	108	0.00
3	P	Chloromethane	50.000	42.800	14.4	97	0.00
4	C	Vinyl Chloride	50.000	53.107	-6.2#	115	0.00
5	T	Bromomethane	50.000	50.200	-0.4	110	0.00
6	T	Chloroethane	50.000	52.288	-4.6	115	0.00
7	T	Trichlorofluoromethane	50.000	52.096	-4.2	114	0.00
8	T	Diethyl Ether	50.000	50.415	-0.8	110	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	52.082	-4.2	115	0.00
10	T	Methyl Iodide	50.000	35.410	29.2#	77	0.01
11	T	Tert butyl alcohol	250.000	210.527	15.8	91	-0.01
12	CM	1,1-Dichloroethene	50.000	51.903	-3.8#	114	0.00
13	T	Acrolein	250.000	163.999	34.4#	87	0.00
14	T	Allyl chloride	50.000	45.094	9.8	101	0.00
15	T	Acrylonitrile	250.000	229.103	8.4	100	0.00
16	T	Acetone	250.000	245.332	1.9	113	0.00
17	T	Carbon Disulfide	50.000	54.081	-8.2	122	0.00
18	T	Methyl Acetate	50.000	39.139	21.7	86	0.00
19	T	Methyl tert-butyl Ether	50.000	48.841	2.3	107	0.00
20	T	Methylene Chloride	50.000	48.688	2.6	112	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.386	-0.8	115	0.00
22	T	Diisopropyl ether	50.000	45.626	8.7	100	0.00
23	T	Vinyl Acetate	250.000	237.318	5.1	103	0.00
24	P	1,1-Dichloroethane	50.000	49.275	1.5	109	0.00
25	T	2-Butanone	250.000	211.995	15.2	93	0.00
26	T	2,2-Dichloropropane	50.000	55.517	-11.0	112	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.705	0.6	110	0.00
28	T	Bromochloromethane	50.000	44.293	11.4	110	0.00
29	T	Tetrahydrofuran	250.000	211.614	15.4	93	0.00
30	C	Chloroform	50.000	48.348	3.3#	107	0.00
31	T	Cyclohexane	50.000	45.214	9.6	102	0.00
32	T	1,1,1-Trichloroethane	50.000	48.606	2.8	108	0.00
33	S	1,2-Dichloroethane-d4	50.000	46.352	7.3	130	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35	S	Dibromofluoromethane	50.000	53.283	-6.6	144	0.00
36	T	1,1-Dichloropropene	50.000	52.888	-5.8	111	0.00
37	T	Ethyl Acetate	50.000	47.255	5.5	99	0.00
38	T	Carbon Tetrachloride	50.000	51.960	-3.9	110	0.00
39	T	Methylcyclohexane	50.000	45.080	9.8	95	0.00
40	TM	Benzene	50.000	50.844	-1.7	109	0.00
41	T	Methacrylonitrile	50.000	44.118	11.8	92	0.00
42	TM	1,2-Dichloroethane	50.000	49.628	0.7	105	0.00
43	T	Isopropyl Acetate	50.000	45.206	9.6	95	0.00
44	TM	Trichloroethene	50.000	53.359	-6.7	111	0.00
45	C	1,2-Dichloropropane	50.000	51.261	-2.5#	108	0.00
46	T	Dibromomethane	50.000	53.189	-6.4	112	0.00
47	T	Bromodichloromethane	50.000	51.121	-2.2	107	0.00
48	T	Methyl methacrylate	50.000	45.820	8.4	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	956.815	4.3	92	0.00
50	S	Toluene-d8	50.000	49.543	0.9	135	0.00
51	T	4-Methyl-2-Pentanone	250.000	232.037	7.2	94	0.00
52	CM	Toluene	50.000	51.712	-3.4#	109	0.00
53	T	t-1,3-Dichloropropene	50.000	52.430	-4.9	108	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.653	-5.3	110	0.00
55	T	1,1,2-Trichloroethane	50.000	51.005	-2.0	107	0.00
56	T	Ethyl methacrylate	50.000	53.576	-7.2	104	0.00
57	T	1,3-Dichloropropane	50.000	50.473	-0.9	106	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	234.289	6.3	110	0.00
59	T	2-Hexanone	250.000	242.852	2.9	92	0.00
60	T	Dibromochloromethane	50.000	52.974	-5.9	110	0.00
61	T	1,2-Dibromoethane	50.000	52.202	-4.4	110	0.00
62	S	4-Bromofluorobenzene	50.000	51.228	-2.5	137	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64	T	Tetrachloroethene	50.000	51.300	-2.6	110	0.00
65	PM	Chlorobenzene	50.000	51.632	-3.3	110	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.079	-4.2	108	0.00
67	C	Ethyl Benzene	50.000	50.882	-1.8#	107	0.00
68	T	m/p-Xylenes	100.000	105.015	-5.0	108	0.00
69	T	o-Xylene	50.000	52.589	-5.2	108	0.00
70	T	Styrene	50.000	52.934	-5.9	108	0.00
71	P	Bromoform	50.000	55.217	-10.4	109	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	49.378	1.2	103	0.00
74	T	N-amyl acetate	50.000	44.506	11.0	88	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.861	0.3	102	0.00
76	T	1,2,3-Trichloropropane	50.000	43.352	13.3	86	0.00
77	T	Bromobenzene	50.000	52.988	-6.0	110	0.00
78	T	n-propylbenzene	50.000	48.505	3.0	100	0.00
79	T	2-Chlorotoluene	50.000	49.053	1.9	102	0.00
80	T	1,3,5-Trimethylbenzene	50.000	49.603	0.8	101	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.208	3.6	102	0.00
82	T	4-Chlorotoluene	50.000	50.317	-0.6	105	0.00
83	T	tert-Butylbenzene	50.000	45.624	8.8	94	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.084	-0.2	101	0.00
85	T	sec-Butylbenzene	50.000	45.019	10.0	92	0.00
86	T	p-Isopropyltoluene	50.000	46.356	7.3	94	0.00
87	T	1,3-Dichlorobenzene	50.000	51.871	-3.7	107	0.00
88	T	1,4-Dichlorobenzene	50.000	51.398	-2.8	107	0.00
89	T	n-Butylbenzene	50.000	41.655	16.7	85	0.00
90	T	Hexachloroethane	50.000	47.628	4.7	97	0.00
91	T	1,2-Dichlorobenzene	50.000	51.121	-2.2	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	46.814	6.4	100	0.00
93	T	1,2,4-Trichlorobenzene	50.000	44.615	10.8	91	0.00
94	T	Hexachlorobutadiene	50.000	36.072	27.9#	73	0.00
95	T	Naphthalene	50.000	47.478	5.0	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	43.093	13.8	89	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date/Time: 06/18/2025 19:42

Lab File ID: VN087098.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.499	0.532		6.61	50
Chloromethane	0.644	0.586	0.1	-9.01	50
Vinyl Chloride	0.664	0.742		11.75	50
Bromomethane	0.372	0.385		3.49	50
Chloroethane	0.429	0.473		10.26	50
Trichlorofluoromethane	0.868	0.960		10.6	50
1,1,2-Trichlorotrifluoroethane	0.545	0.597		9.54	50
1,1-Dichloroethene	0.557	0.608		9.16	50
Acetone	0.355	0.325		-8.45	50
Carbon Disulfide	1.539	1.739		12.99	50
Methyl tert-butyl Ether	2.015	2.066		2.53	50
Methyl Acetate	1.035	1.067		3.09	50
Methylene Chloride	0.665	0.685		3.01	50
trans-1,2-Dichloroethene	0.619	0.648		4.68	50
1,1-Dichloroethane	1.120	1.175	0.1	4.91	50
Cyclohexane	1.086	1.032		-4.97	50
2-Butanone	0.577	0.534		-7.45	50
Carbon Tetrachloride	0.433	0.464		7.16	50
cis-1,2-Dichloroethene	0.740	0.782		5.68	50
Bromochloromethane	0.550	0.510		-7.27	50
Chloroform	1.118	1.163		4.03	50
1,1,1-Trichloroethane	0.951	0.980		3.05	50
Methylcyclohexane	0.605	0.542		-10.41	50
Benzene	1.444	1.508		4.43	50
1,2-Dichloroethane	0.438	0.451		2.97	50
Trichloroethene	0.342	0.363		6.14	50
1,2-Dichloropropane	0.351	0.365		3.99	50
Bromodichloromethane	0.480	0.499		3.96	50
4-Methyl-2-Pentanone	0.543	0.534		-1.66	50
Toluene	0.882	0.940		6.58	50
t-1,3-Dichloropropene	0.537	0.552		2.79	50
cis-1,3-Dichloropropene	0.574	0.600		4.53	50
1,1,2-Trichloroethane	0.340	0.357		5	50
2-Hexanone	0.350	0.358		2.29	50
Dibromochloromethane	0.354	0.390		10.17	50
1,2-Dibromoethane	0.348	0.364		4.6	50
Tetrachloroethene	0.316	0.324		2.53	50
Chlorobenzene	1.103	1.153	0.3	4.53	50

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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date/Time: 06/18/2025 19:42

Lab File ID: VN087098.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.900	1.939		2.05	50
m/p-Xylenes	0.727	0.770		5.91	50
o-Xylene	0.696	0.743		6.75	50
Styrene	1.192	1.271		6.63	50
Bromoform	0.263	0.294	0.1	11.79	50
Isopropylbenzene	3.643	3.579		-1.76	50
1,1,2,2-Tetrachloroethane	1.234	1.250	0.3	1.3	50
1,3-Dichlorobenzene	1.644	1.670		1.58	50
1,4-Dichlorobenzene	1.676	1.718		2.51	50
1,2-Dichlorobenzene	1.579	1.620		2.6	50
1,2-Dibromo-3-Chloropropane	0.295	0.271		-8.14	50
1,2,4-Trichlorobenzene	1.008	0.875		-13.19	50
1,2,3-Trichlorobenzene	1.002	0.856		-14.57	50
1,2-Dichloroethane-d4	0.669	0.687		2.69	50
Dibromofluoromethane	0.296	0.331		11.82	50
Toluene-d8	1.173	1.212		3.33	50
4-Bromofluorobenzene	0.436	0.455		4.36	50

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_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	8.230	168	189111	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	343303	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.865	117	303826	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	154355	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.583	65	129912	51.308 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.620%		
35) Dibromofluoromethane	8.171	113	113753	55.912 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.820%		
50) Toluene-d8	10.565	98	416207	51.677 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.360%		
62) 4-Bromofluorobenzene	12.847	95	156337	52.246 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.500%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.154	85	100528	53.315 ug/l	100
3) Chloromethane	2.395	50	110773	45.495 ug/l	100
4) Vinyl Chloride	2.554	62	140290	55.855 ug/l	99
5) Bromomethane	2.989	94	72744	51.755 ug/l	98
6) Chloroethane	3.153	64	89505	55.168 ug/l	100
7) Trichlorofluoromethane	3.530	101	181514	55.313 ug/l	100
8) Diethyl Ether	3.983	74	76418	53.447 ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.400	101	112924	54.772 ug/l	98
10) Methyl Iodide	4.612	142	90457	33.845 ug/l	96
11) Tert butyl alcohol	5.536	59	155361	226.134 ug/l	99
12) 1,1-Dichloroethene	4.371	96	114974	54.623 ug/l	90
13) Acrolein	4.200	56	76088	349.879 ug/l	98
14) Allyl chloride	5.047	41	163864	46.942 ug/l	95
15) Acrylonitrile	5.736	53	400826	249.606 ug/l	99
16) Acetone	4.447	43	306869	228.541 ug/l	99
17) Carbon Disulfide	4.742	76	328770	56.468 ug/l	100
18) Methyl Acetate	5.042	43	201717	51.551 ug/l	97
19) Methyl tert-butyl Ether	5.812	73	390655	51.259 ug/l	97
20) Methylene Chloride	5.295	84	129490	51.511 ug/l	93
21) trans-1,2-Dichloroethene	5.806	96	122590	52.348 ug/l	98
22) Diisopropyl ether	6.689	45	362665	49.286 ug/l	97
23) Vinyl Acetate	6.618	43	1521870	244.793 ug/l	97
24) 1,1-Dichloroethane	6.589	63	222185	52.469 ug/l	98
25) 2-Butanone	7.494	43	504996	231.377 ug/l	96
26) 2,2-Dichloropropane	7.500	77	157062	47.682 ug/l	97
27) cis-1,2-Dichloroethene	7.500	96	147877	52.800 ug/l	96
28) Bromochloromethane	7.824	49	96515	46.356 ug/l	93
29) Tetrahydrofuran	7.847	42	334447	235.230 ug/l	96
30) Chloroform	7.977	83	219880	51.995 ug/l	98
31) Cyclohexane	8.265	56	195195	47.532 ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	185396	51.545 ug/l	98
36) 1,1-Dichloropropene	8.383	75	162876	53.726 ug/l	99
37) Ethyl Acetate	7.571	43	187232	48.515 ug/l	99
38) Carbon Tetrachloride	8.371	117	159437	53.568 ug/l	97
39) Methylcyclohexane	9.606	83	186032	44.790 ug/l	96
40) Benzene	8.612	78	517732	52.225 ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.788	41	99657	45.981 ug/l		92
42) 1,2-Dichloroethane	8.677	62	154951	51.533 ug/l		99
43) Isopropyl Acetate	8.694	43	287907	46.481 ug/l		96
44) Trichloroethene	9.353	130	124543	52.982 ug/l		96
45) 1,2-Dichloropropane	9.624	63	125302	51.954 ug/l		100
46) Dibromomethane	9.712	93	86447	53.963 ug/l		99
47) Bromodichloromethane	9.888	83	171216	51.947 ug/l		98
48) Methyl methacrylate	9.682	41	133232	46.733 ug/l		93
49) 1,4-Dioxane	9.706	88	51690	996.635 ug/l	#	97
51) 4-Methyl-2-Pentanone	10.447	43	917017	245.922 ug/l		98
52) Toluene	10.629	92	322535	53.238 ug/l		99
53) t-1,3-Dichloropropene	10.835	75	189556	51.432 ug/l		95
54) cis-1,3-Dichloropropene	10.312	75	206140	52.274 ug/l		98
55) 1,1,2-Trichloroethane	11.018	97	122692	52.632 ug/l		99
56) Ethyl methacrylate	10.877	69	200286	53.942 ug/l		94
57) 1,3-Dichloropropane	11.165	76	211513	52.304 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	521933	235.679 ug/l		99
59) 2-Hexanone	11.200	43	614814	255.969 ug/l		93
60) Dibromochloromethane	11.359	129	133807	55.092 ug/l		100
61) 1,2-Dibromoethane	11.471	107	125069	52.343 ug/l		99
64) Tetrachloroethene	11.106	164	98311	51.129 ug/l		97
65) Chlorobenzene	11.888	112	350202	52.261 ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	113531	52.707 ug/l		99
67) Ethyl Benzene	11.965	91	589188	51.046 ug/l		99
68) m/p-Xylenes	12.071	106	468010	105.923 ug/l		97
69) o-Xylene	12.400	106	225888	53.380 ug/l		95
70) Styrene	12.412	104	386227	53.338 ug/l		99
71) Bromoform	12.576	173	89180	55.877 ug/l	#	100
73) Isopropylbenzene	12.694	105	552495	49.133 ug/l		100
74) N-amyl acetate	12.512	43	164161	41.777 ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	192951	50.650 ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	160483m	43.739 ug/l		
77) Bromobenzene	12.976	156	135755	52.642 ug/l		96
78) n-propylbenzene	13.035	91	650467	47.599 ug/l		99
79) 2-Chlorotoluene	13.123	91	393256	47.985 ug/l		96
80) 1,3,5-Trimethylbenzene	13.170	105	452283	48.716 ug/l		98
81) trans-1,4-Dichloro-2-b...	12.735	75	71058	44.581 ug/l		94
82) 4-Chlorotoluene	13.218	91	412348	49.727 ug/l		99
83) tert-Butylbenzene	13.435	119	387224	45.565 ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	463050	49.739 ug/l		100
85) sec-Butylbenzene	13.612	105	551168	44.660 ug/l		99
86) p-Isopropyltoluene	13.723	119	468408	45.914 ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	257823	50.814 ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	265204	51.268 ug/l		99
89) n-Butylbenzene	14.053	91	406621	41.149 ug/l		100
90) Hexachloroethane	14.329	117	84025	48.590 ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	250075	51.301 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	41858	45.944 ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	135052	43.387 ug/l		99
94) Hexachlorobutadiene	15.494	225	41719	35.974 ug/l		99
95) Naphthalene	15.635	128	550393	47.504 ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	132061	42.701 ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

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

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

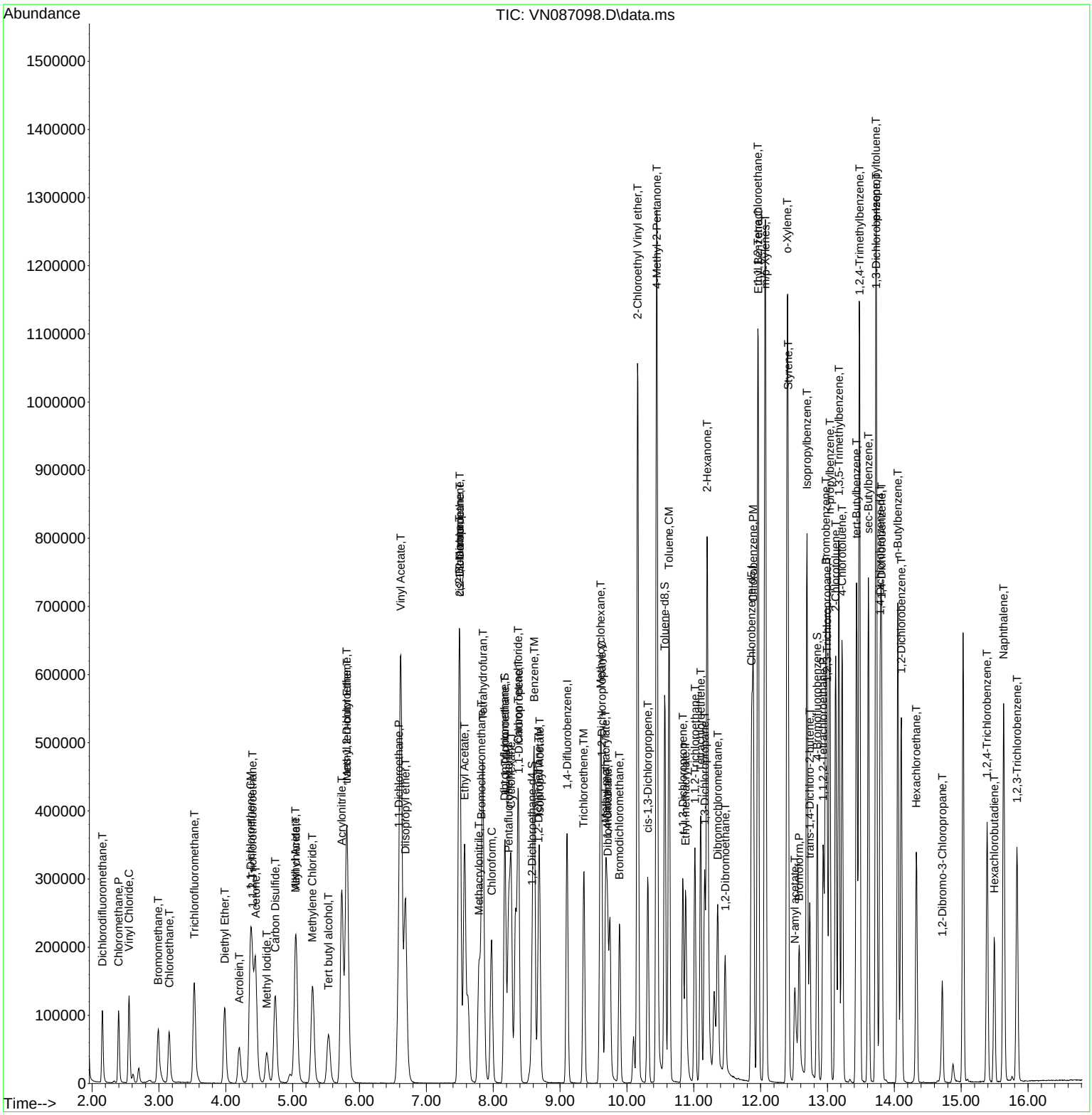
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

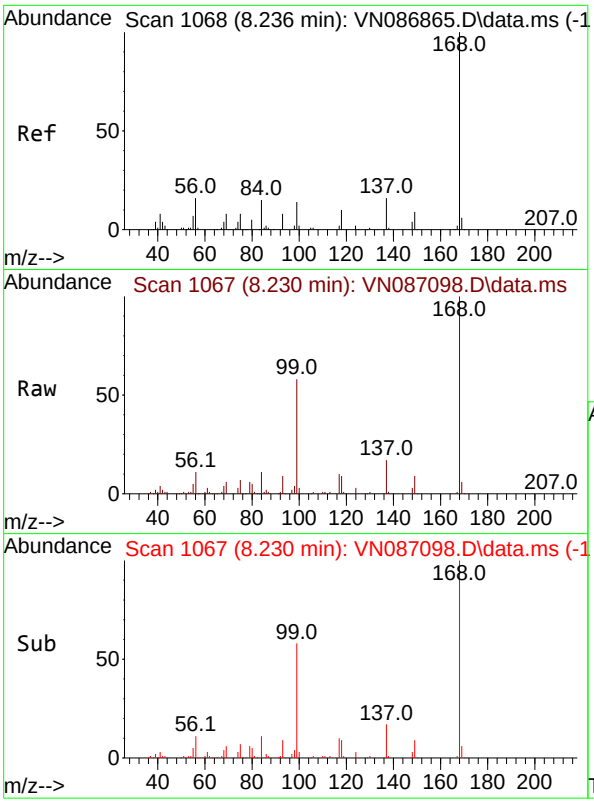
Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

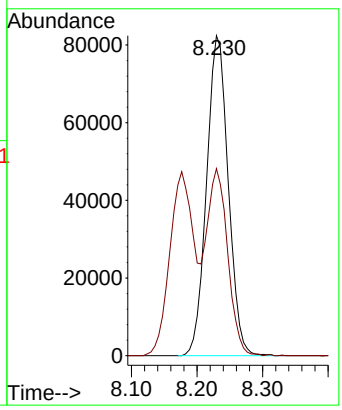




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:168 Resp: 18911

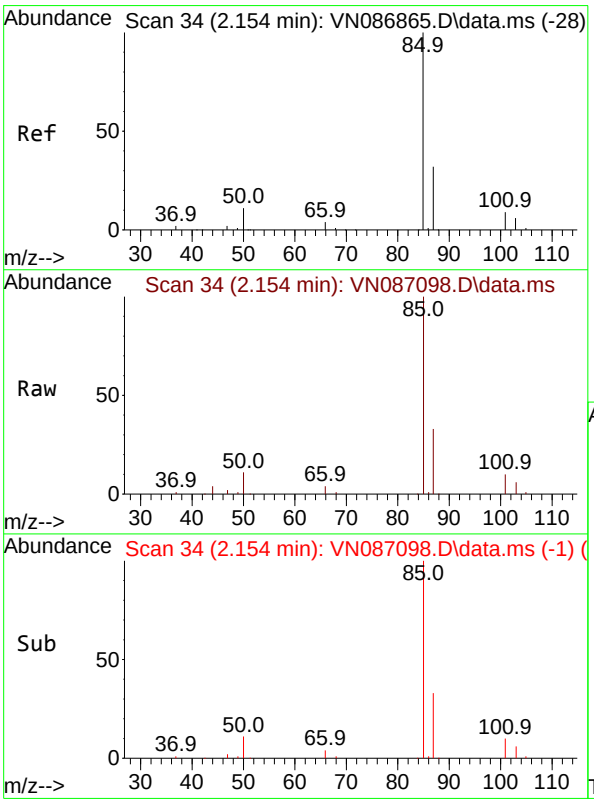
Ion	Ratio	Lower	Upper
168	100		
99	58.5	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

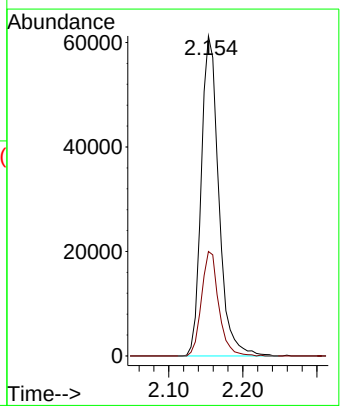
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

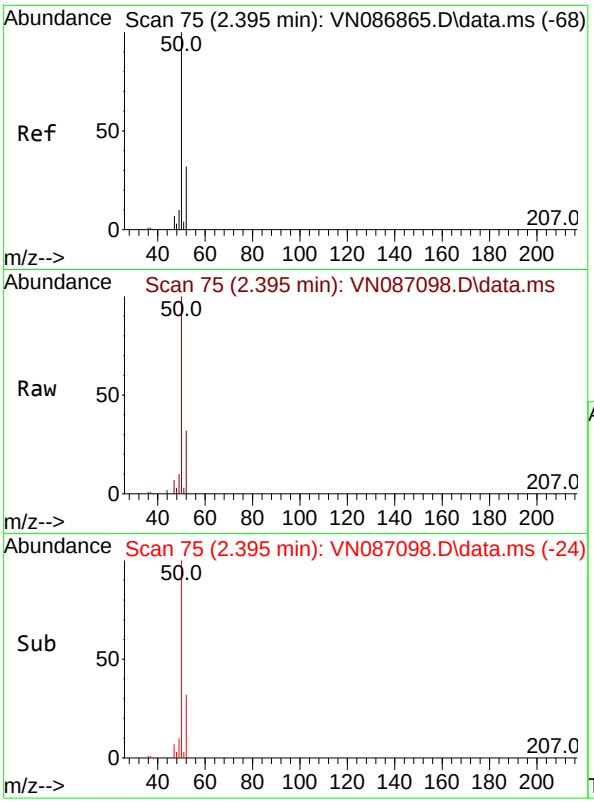


#2
Dichlorodifluoromethane
Concen: 53.315 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 85 Resp: 100528

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.2	48.6

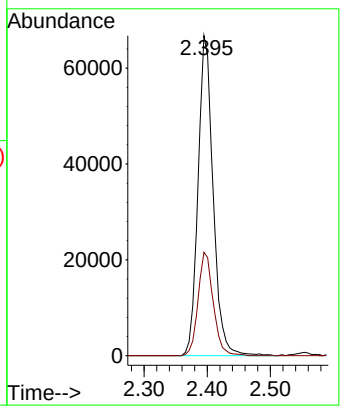




#3
Chloromethane
Concen: 45.495 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 50 Resp: 11077

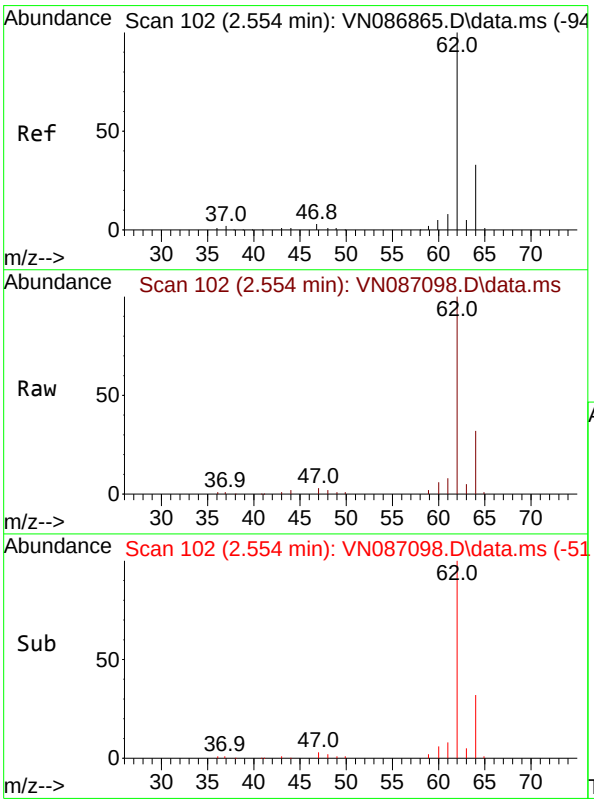
Ion	Ratio	Lower	Upper
50	100		
52	32.3	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

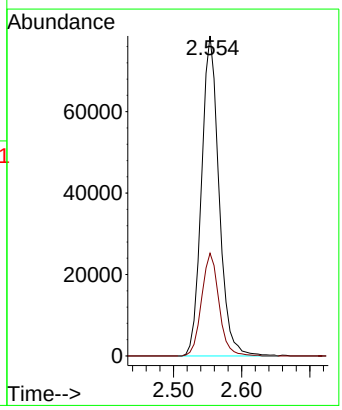
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

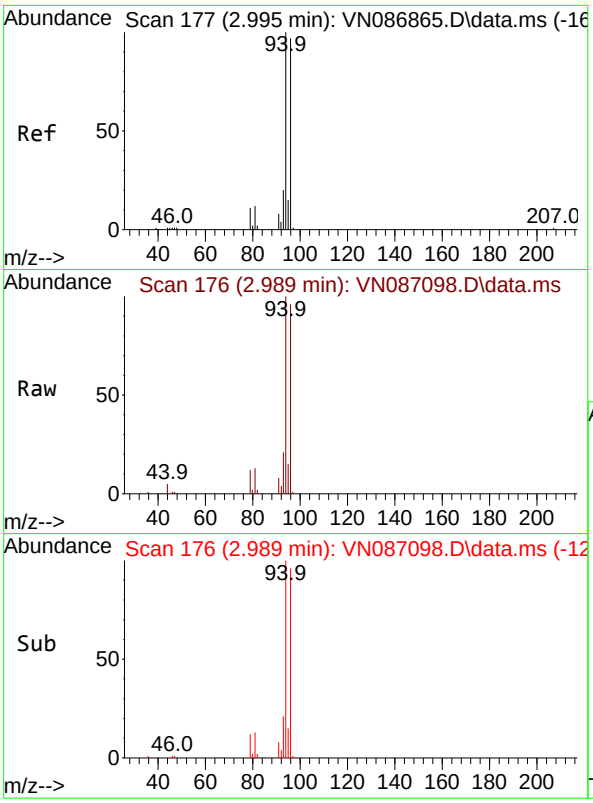


#4
Vinyl Chloride
Concen: 55.855 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 62 Resp: 140290

Ion	Ratio	Lower	Upper
62	100		
64	32.1	26.0	39.0

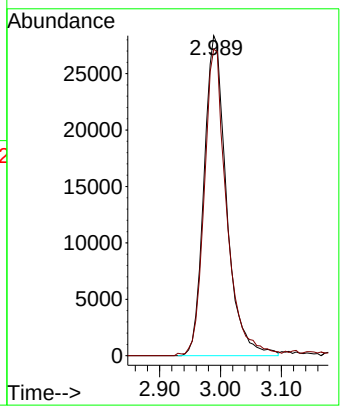




#5
Bromomethane
Concen: 51.755 ug/l
RT: 2.989 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 94 Resp: 7274

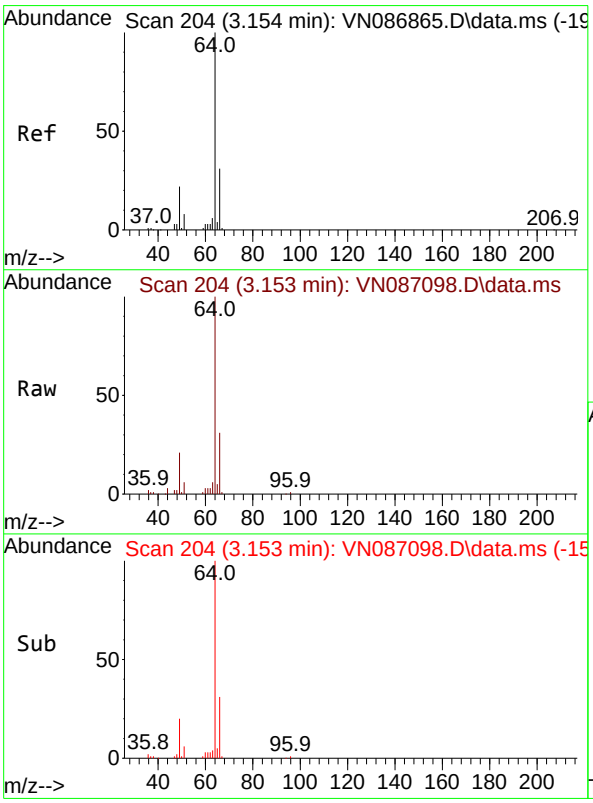
Ion	Ratio	Lower	Upper
94	100		
96	95.0	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

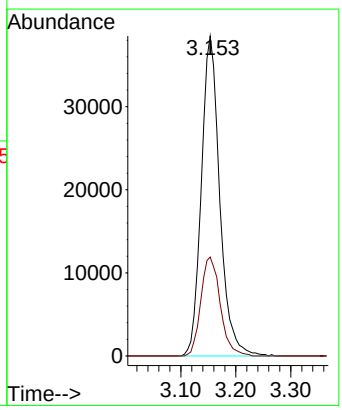
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

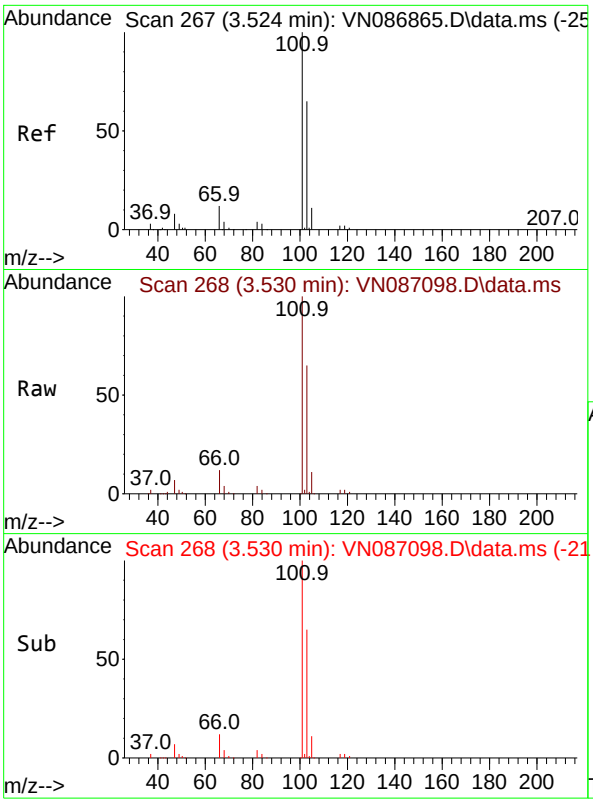


#6
Chloroethane
Concen: 55.168 ug/l
RT: 3.153 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 64 Resp: 89505

Ion	Ratio	Lower	Upper
64	100		
66	30.9	24.6	36.8

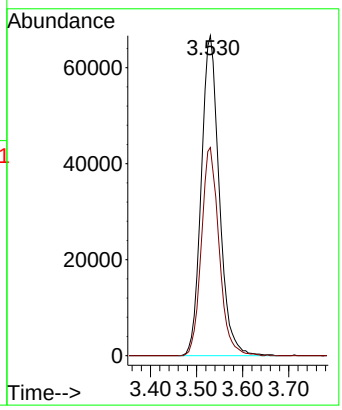




#7
Trichlorofluoromethane
Concen: 55.313 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:101 Resp: 18151

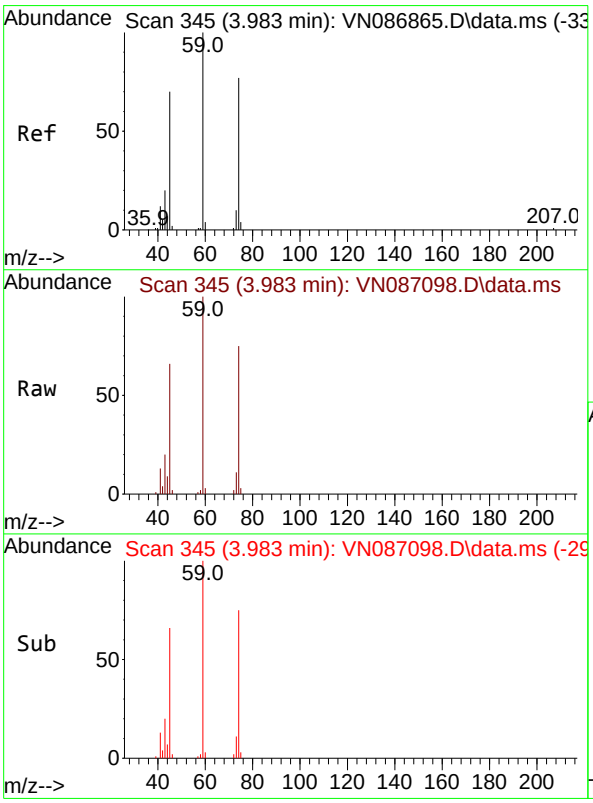
Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.2	78.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

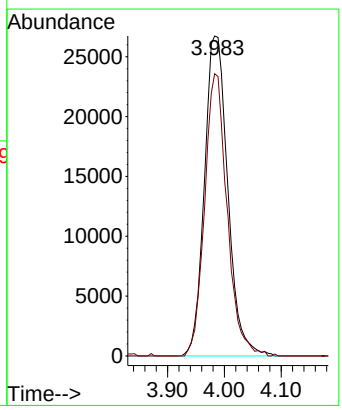
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

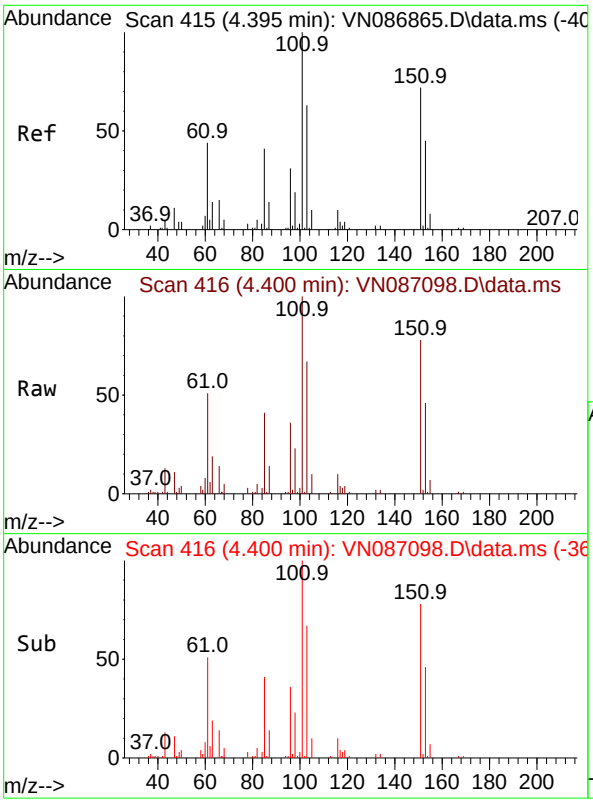


#8
Diethyl Ether
Concen: 53.447 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 74 Resp: 76418

Ion	Ratio	Lower	Upper
74	100		
45	84.8	45.5	136.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 54.772 ug/l
RT: 4.400 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

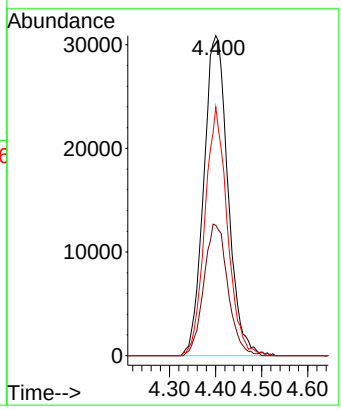
Tgt Ion:101 Resp: 11292

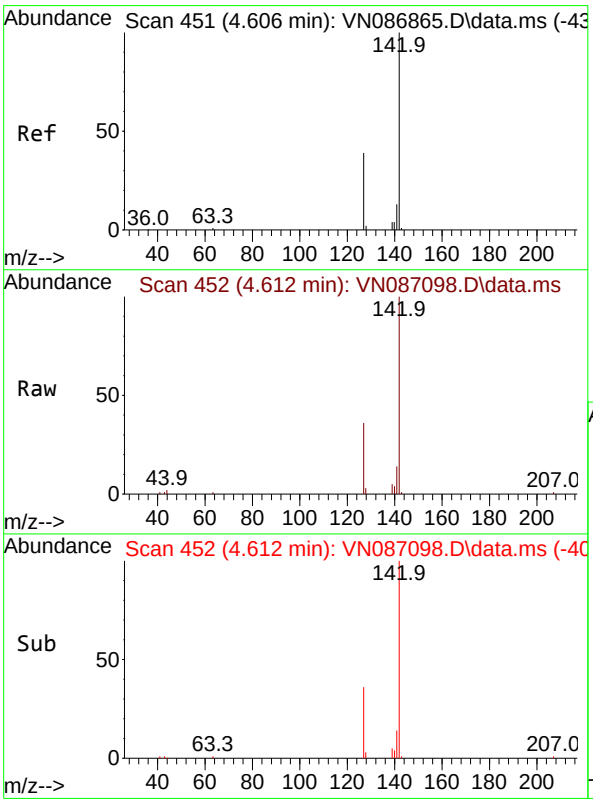
Ion	Ratio	Lower	Upper
101	100		
85	40.7	33.8	50.8
151	72.1	58.7	88.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

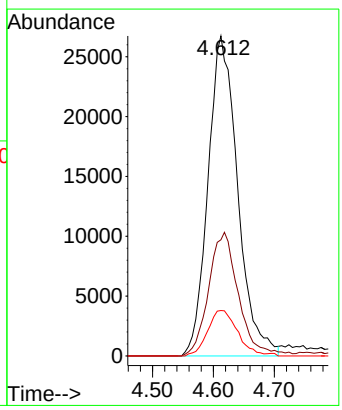


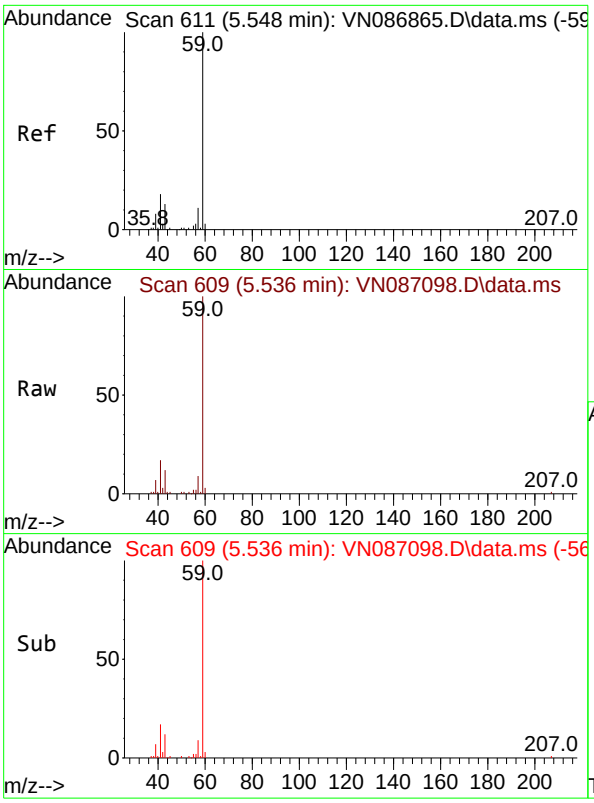


#10
Methyl Iodide
Concen: 33.845 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:142 Resp: 90457

Ion	Ratio	Lower	Upper
142	100		
127	36.3	30.9	46.3
141	14.2	10.4	15.6





#11
Tert butyl alcohol
Concen: 226.134 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

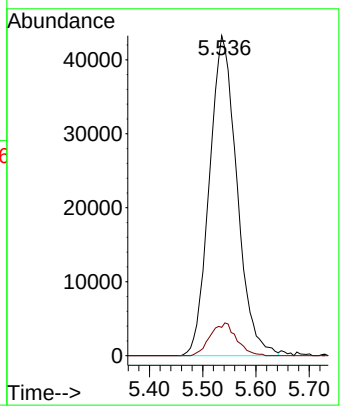
Tgt Ion: 59 Resp: 15536

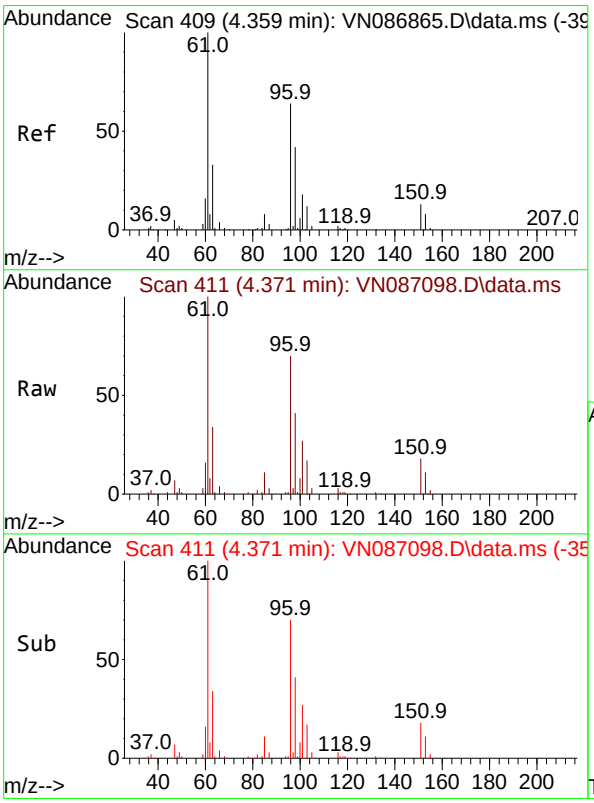
Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

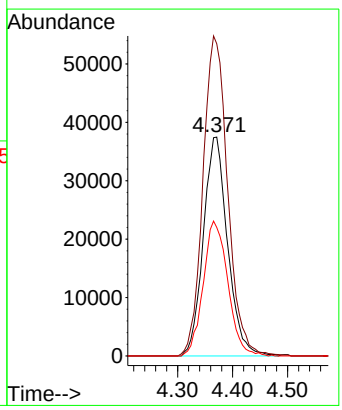


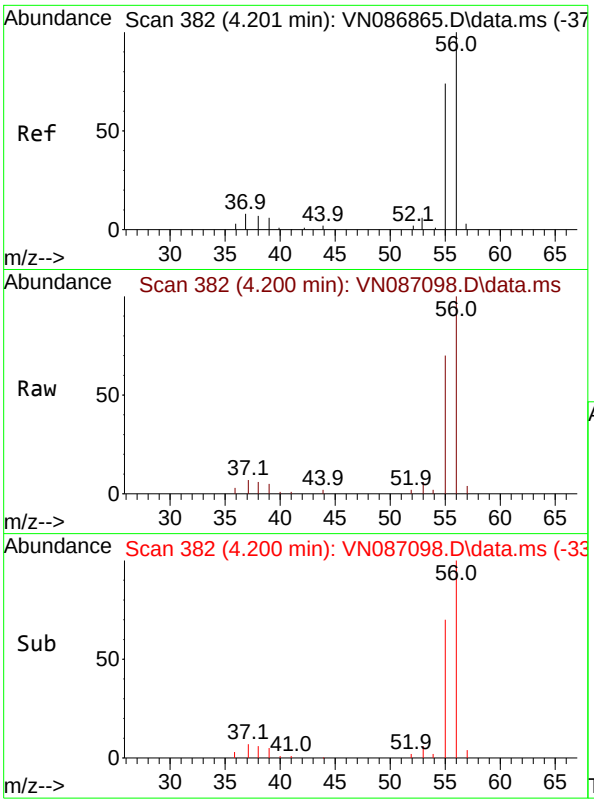


#12
1,1-Dichloroethene
Concen: 54.623 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 96 Resp: 114974

Ion	Ratio	Lower	Upper
96	100		
61	142.7	125.8	188.6
98	58.7	52.5	78.7





#13
Acrolein
Concen: 349.879 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

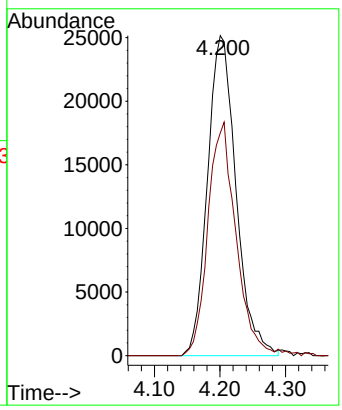
Tgt Ion: 56 Resp: 7608

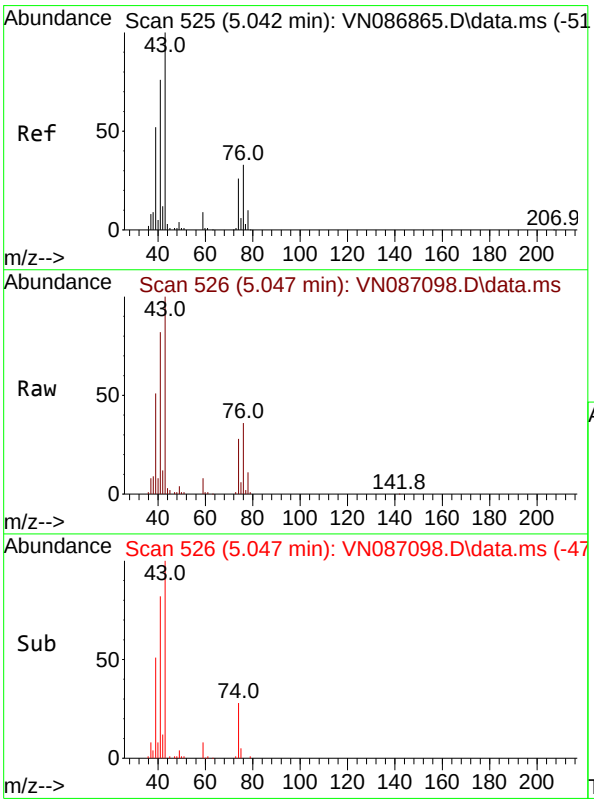
Ion	Ratio	Lower	Upper
56	100		
55	71.2	55.6	83.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

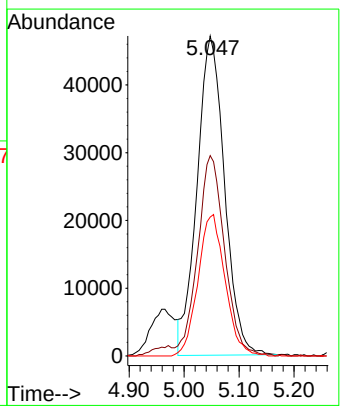


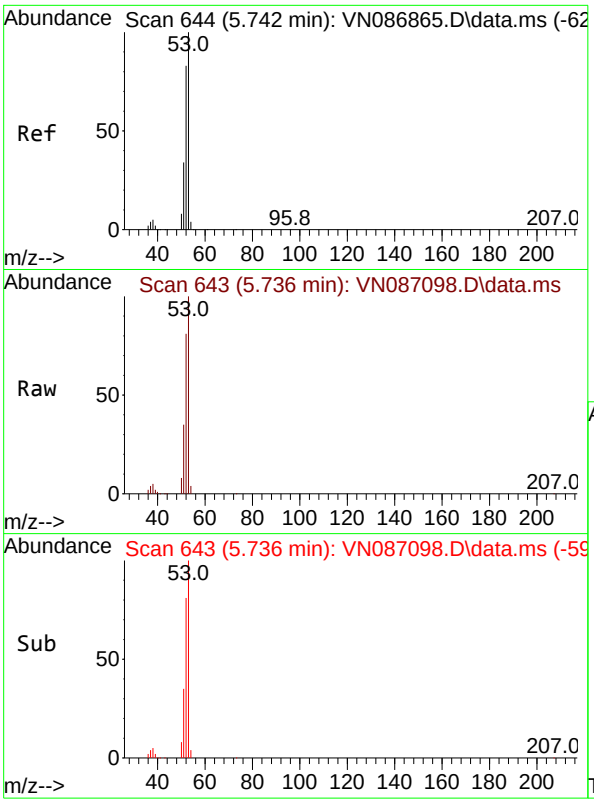


#14
Allyl chloride
Concen: 46.942 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 41 Resp: 163864

Ion	Ratio	Lower	Upper
41	100		
39	61.7	51.3	76.9
76	43.7	31.4	47.0





#15
Acrylonitrile
Concen: 249.606 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

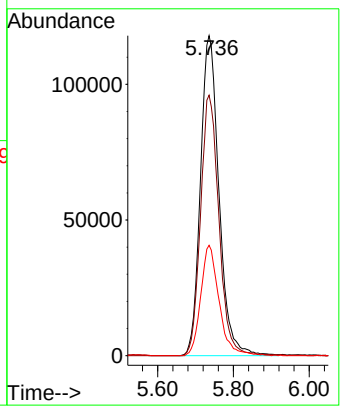
Tgt Ion: 53 Resp: 40082

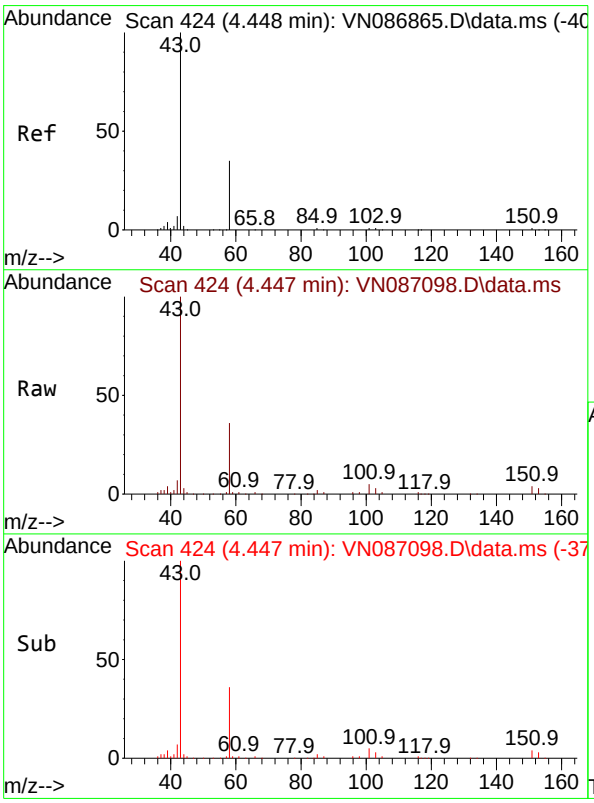
Ion	Ratio	Lower	Upper
53	100		
52	80.4	65.0	97.6
51	34.1	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

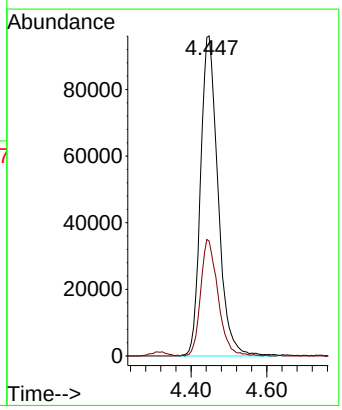


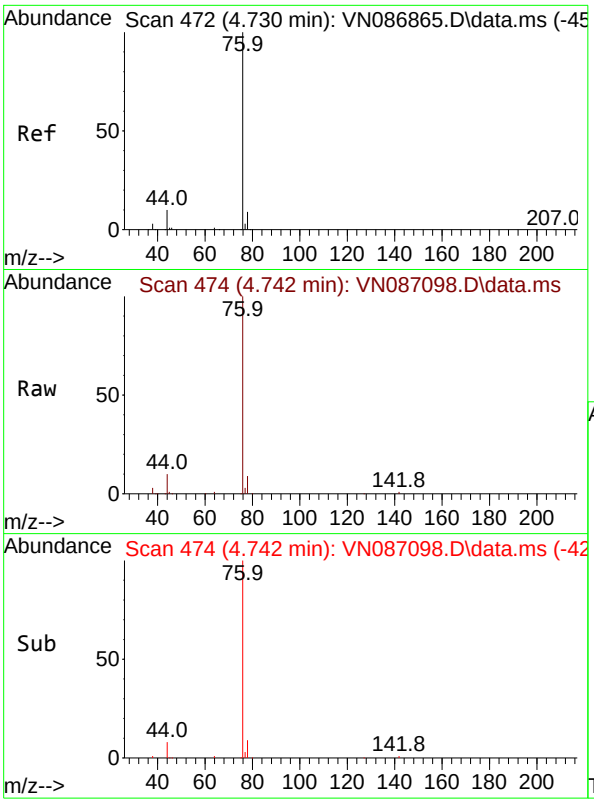


#16
Acetone
Concen: 228.541 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 43 Resp: 306869

Ion	Ratio	Lower	Upper
43	100		
58	35.8	28.0	42.0

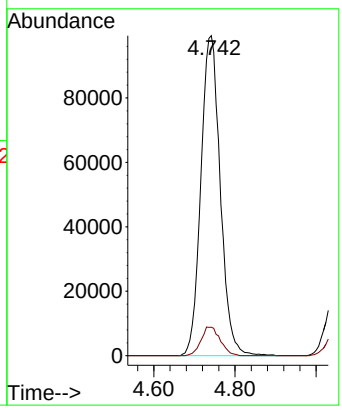




#17
Carbon Disulfide
Concen: 56.468 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 76 Resp: 32877

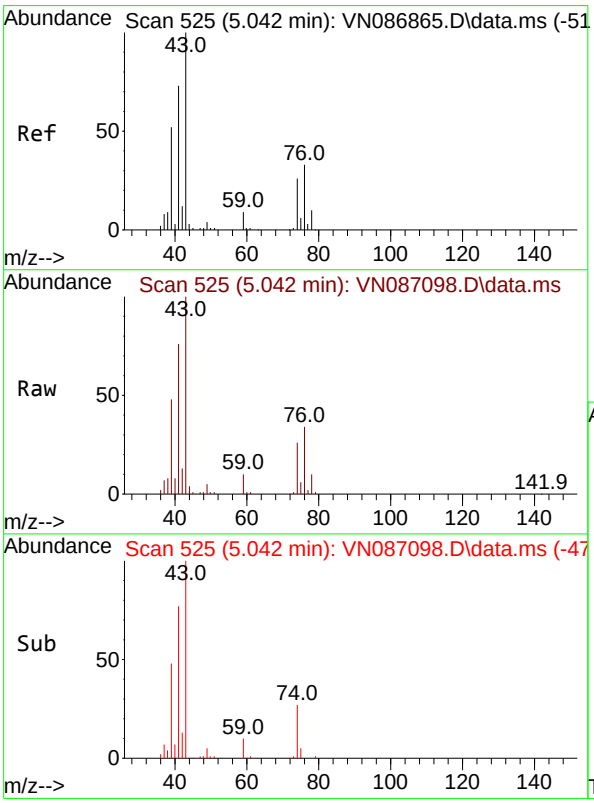
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

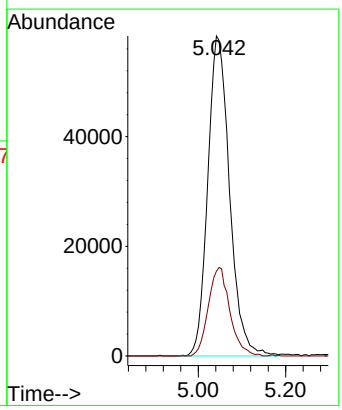
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

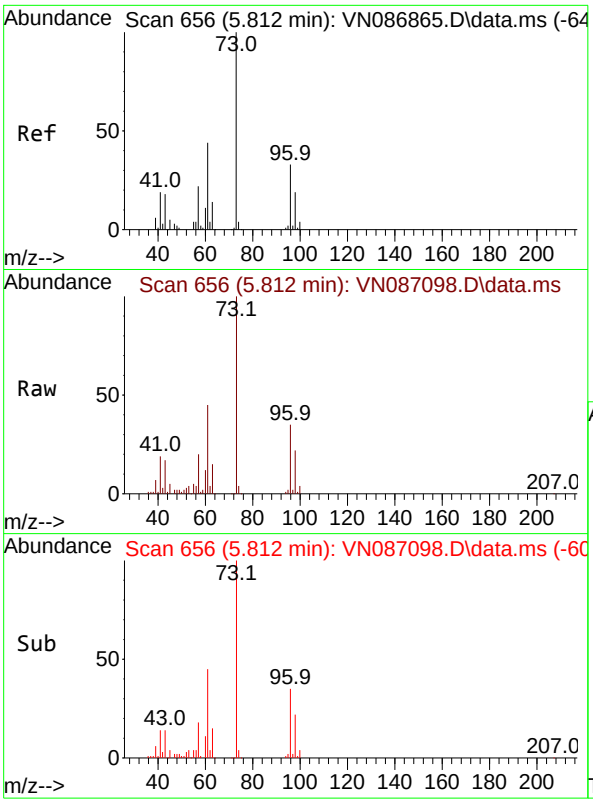


#18
Methyl Acetate
Concen: 51.551 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 43 Resp: 201717

Ion	Ratio	Lower	Upper
43	100		
74	27.3	20.7	31.1

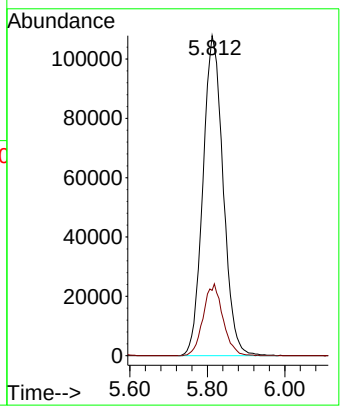




#19
Methyl tert-butyl Ether
Concen: 51.259 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 73 Resp: 39065

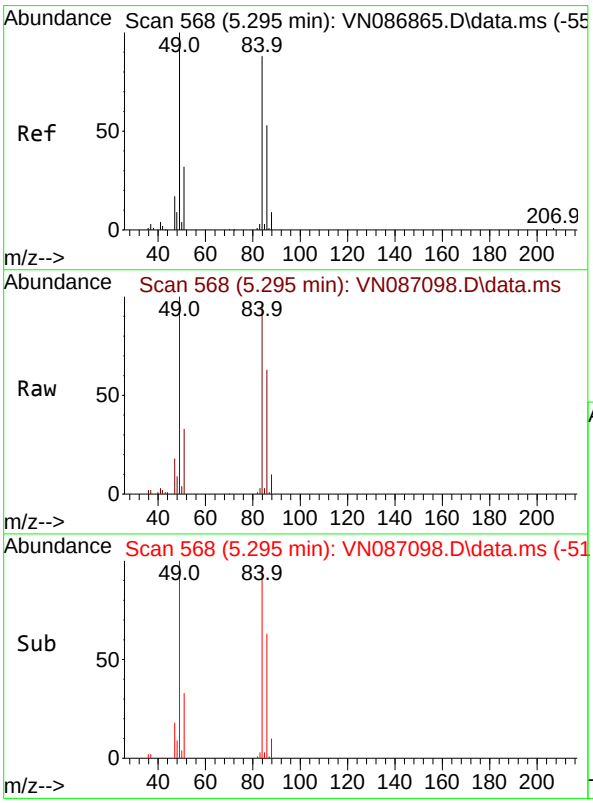
Ion	Ratio	Lower	Upper
73	100		
57	20.4	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

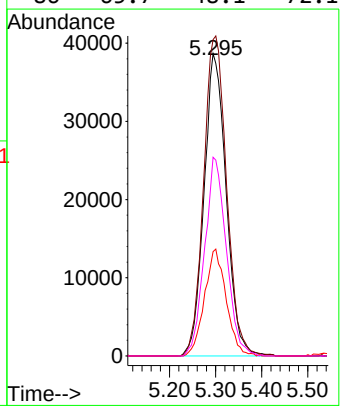
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

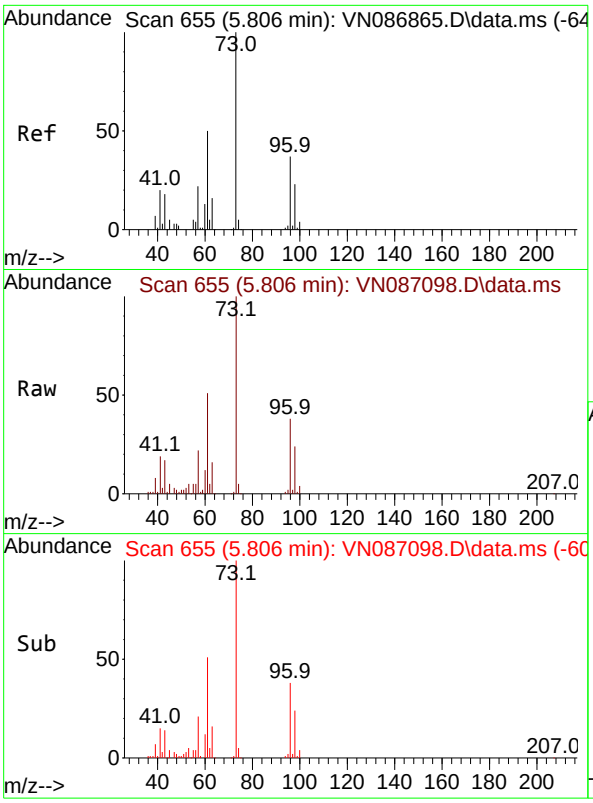


#20
Methylene Chloride
Concen: 51.511 ug/l
RT: 5.295 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 84 Resp: 129490

Ion	Ratio	Lower	Upper
84	100		
49	104.6	90.5	135.7
51	34.5	28.5	42.7
86	65.7	48.1	72.1





#21
trans-1,2-Dichloroethene
Concen: 52.348 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

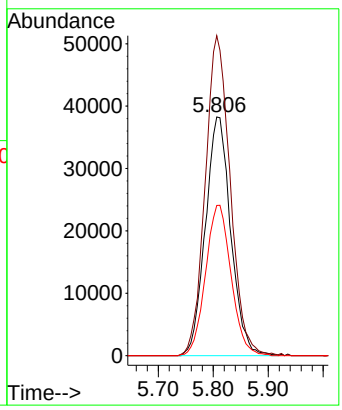
Tgt Ion: 96 Resp: 12259

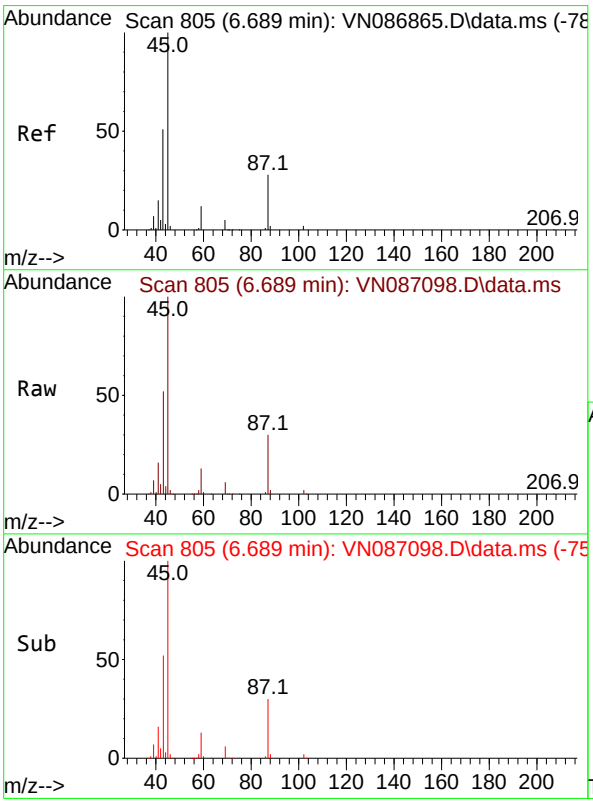
Ion	Ratio	Lower	Upper
96	100		
61	134.0	109.2	163.8
98	62.9	49.8	74.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

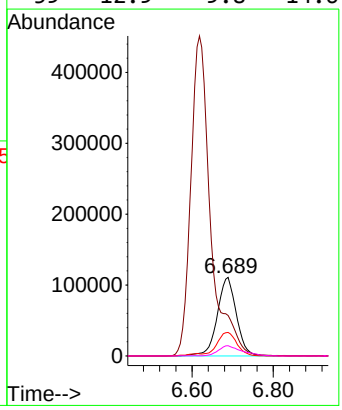


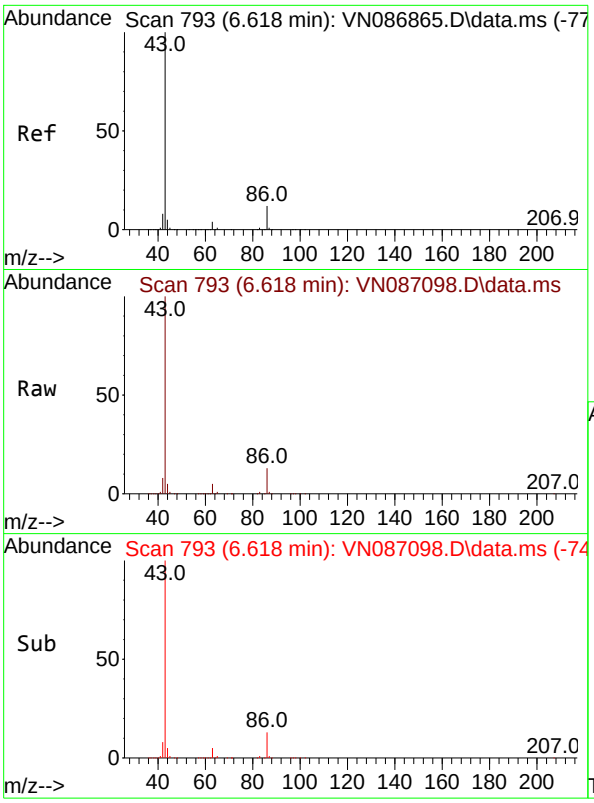


#22
Diisopropyl ether
Concen: 49.286 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 45 Resp: 362665

Ion	Ratio	Lower	Upper
45	100		
43	50.9	41.9	62.9
87	30.0	22.4	33.6
59	12.9	9.8	14.6

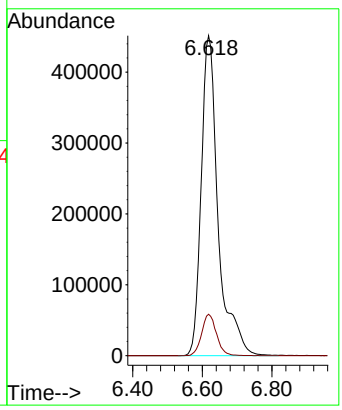




#23
Vinyl Acetate
Concen: 244.793 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 43 Resp: 152187

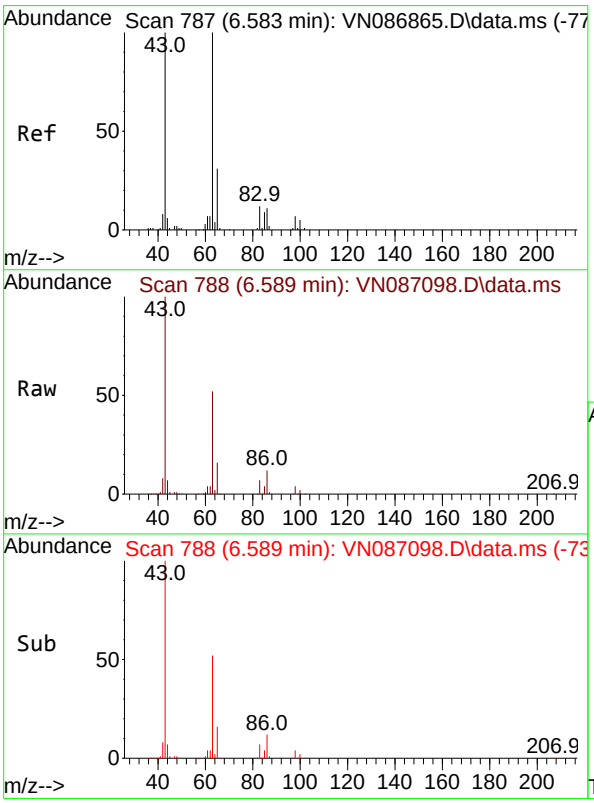
Ion	Ratio	Lower	Upper
43	100		
86	13.0	9.5	14.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

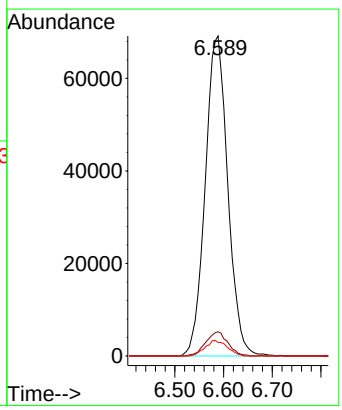
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

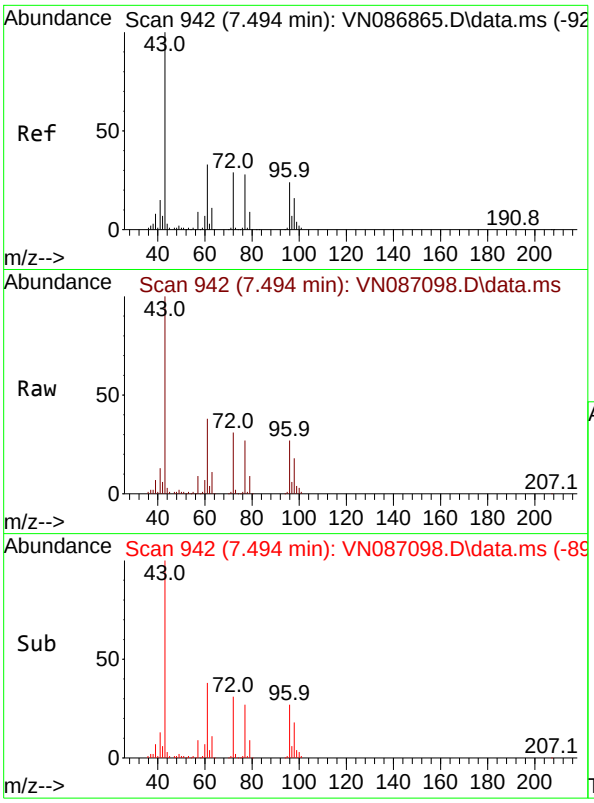


#24
1,1-Dichloroethane
Concen: 52.469 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 63 Resp: 222185

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.6	10.8
100	4.3	2.6	7.8





#25
2-Butanone
Concen: 231.377 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

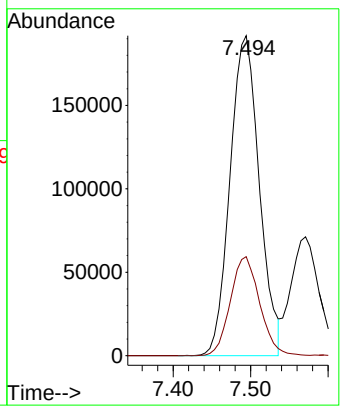
Tgt Ion: 43 Resp: 50499

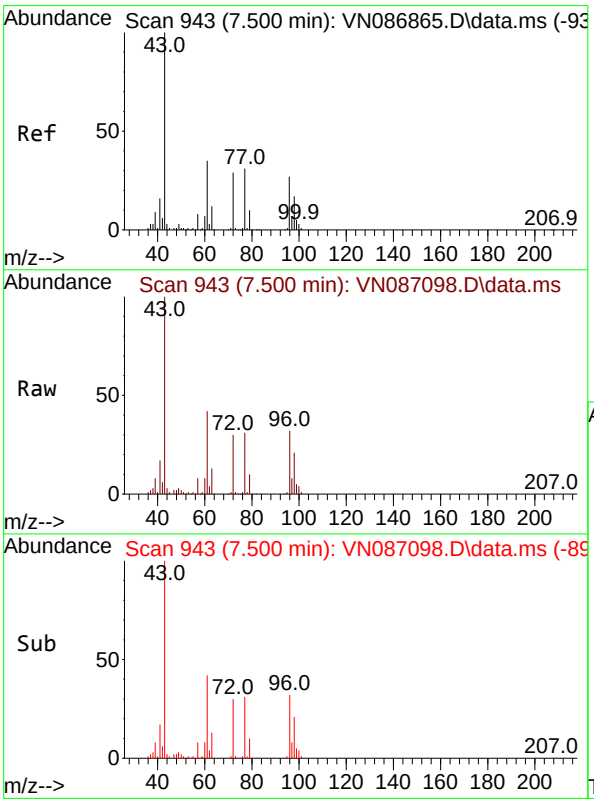
Ion	Ratio	Lower	Upper
43	100		
72	31.0	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

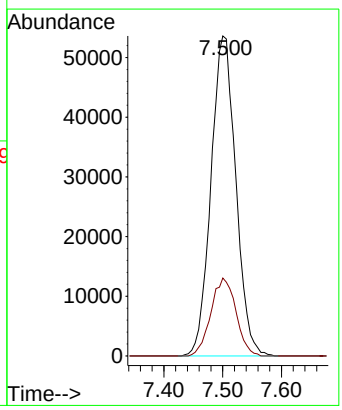


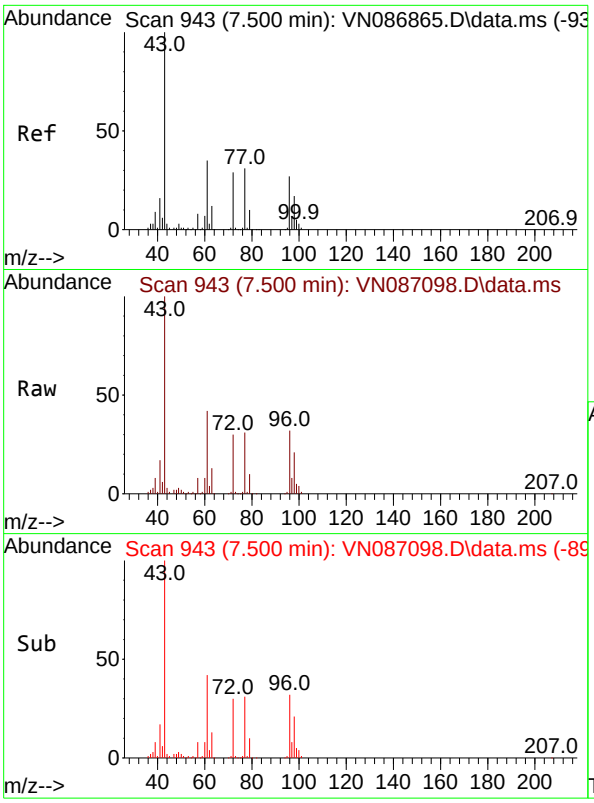


#26
2,2-Dichloropropane
Concen: 47.682 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 77 Resp: 157062

Ion	Ratio	Lower	Upper
77	100		
97	24.6	11.6	34.7





#27
cis-1,2-Dichloroethene
Concen: 52.800 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

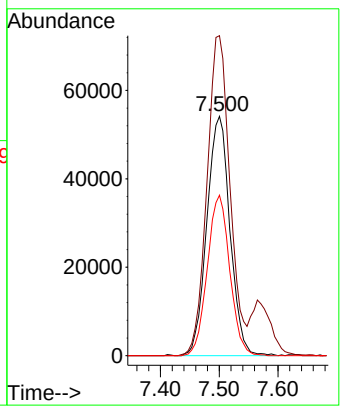
Tgt Ion: 96 Resp: 14787

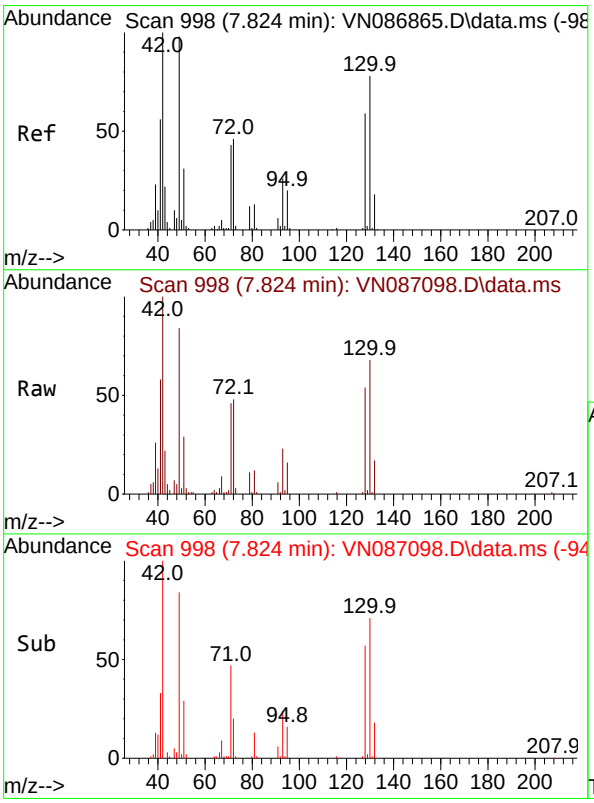
Ion	Ratio	Lower	Upper
96	100		
61	133.3	0.0	278.0
98	65.0	0.0	128.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

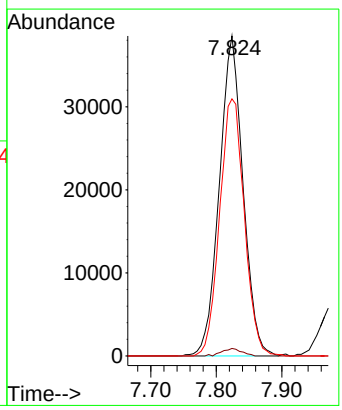


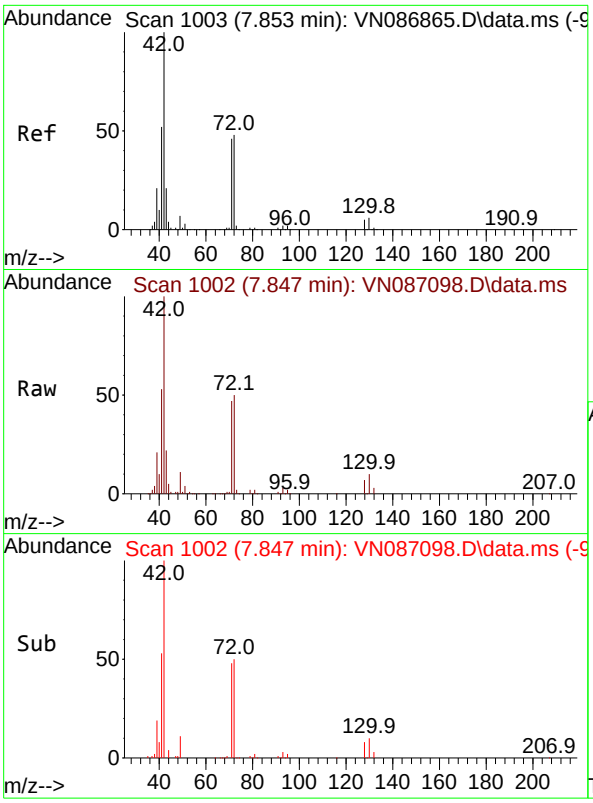


#28
Bromochloromethane
Concen: 46.356 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 49 Resp: 96515

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	83.7	62.2	93.2

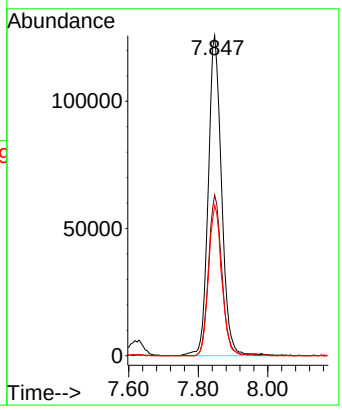




#29
Tetrahydrofuran
Concen: 235.230 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 42 Resp: 33444

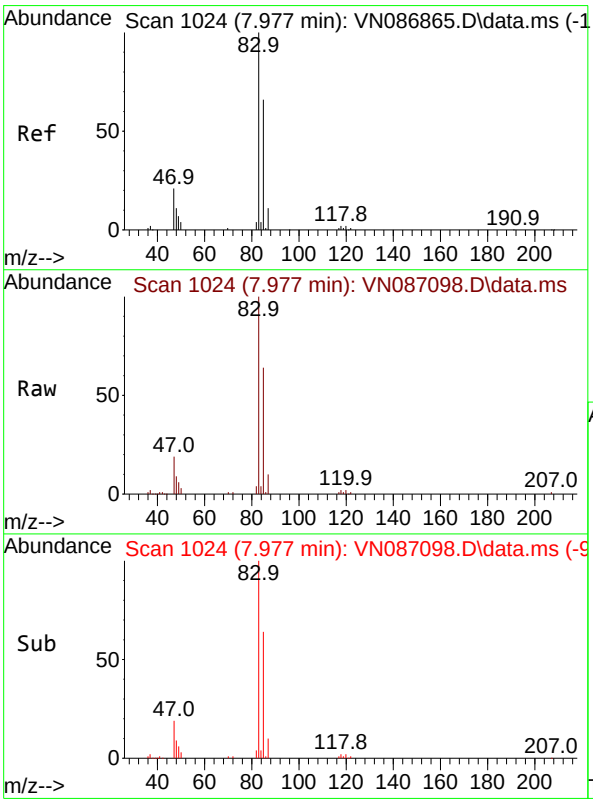
Ion	Ratio	Lower	Upper
42	100		
72	50.0	37.8	56.6
71	46.4	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

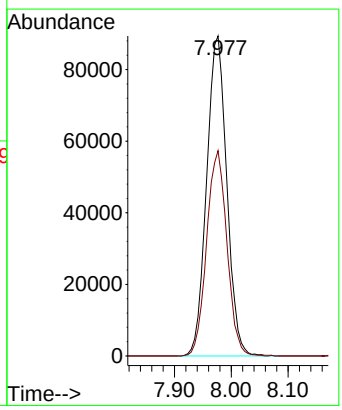
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

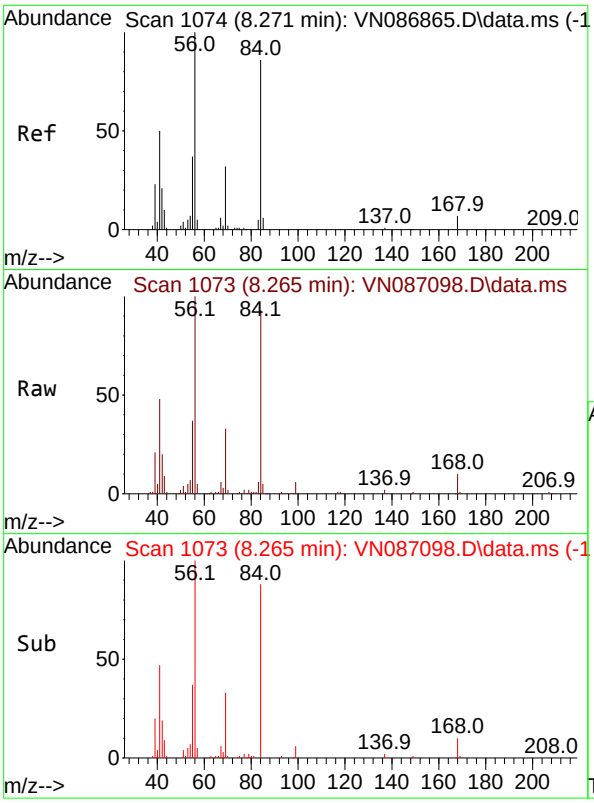


#30
Chloroform
Concen: 51.995 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 83 Resp: 219880

Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.9	79.3





#31
Cyclohexane
Concen: 47.532 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

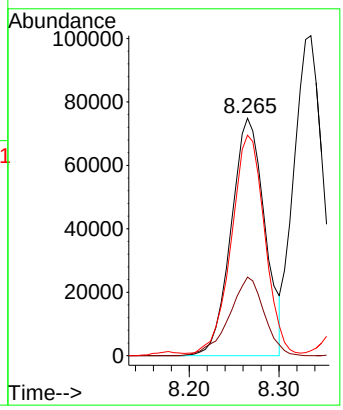
Tgt Ion: 56 Resp: 19519

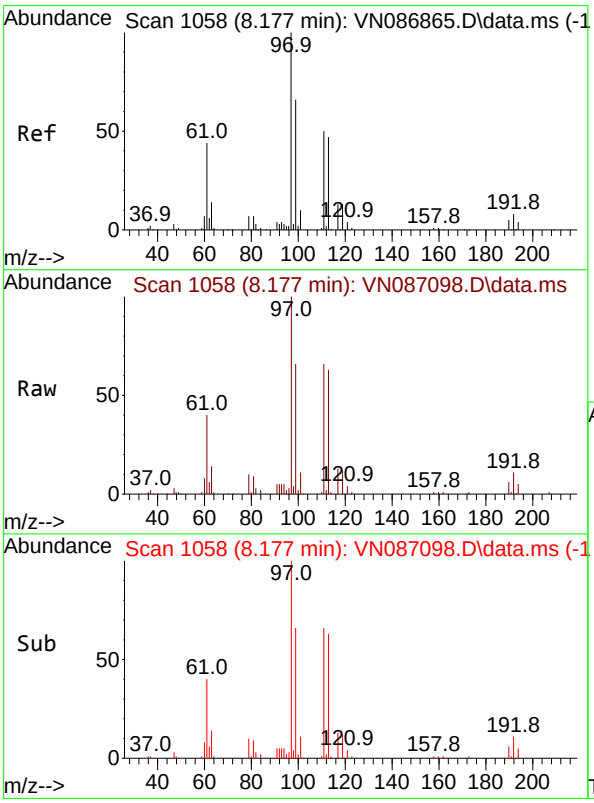
Ion	Ratio	Lower	Upper
56	100		
69	33.1	25.4	38.0
84	91.7	68.8	103.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

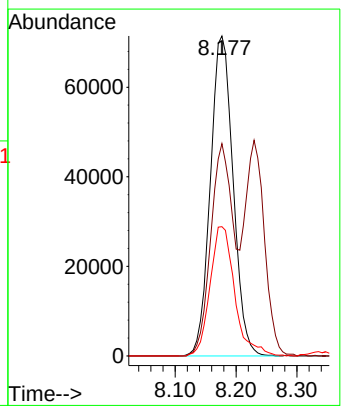


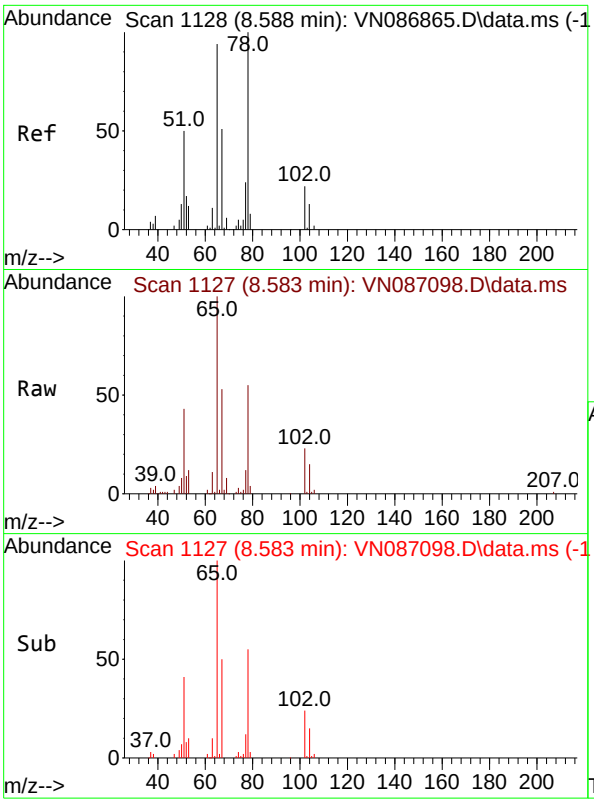


#32
1,1,1-Trichloroethane
Concen: 51.545 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 97 Resp: 185396

Ion	Ratio	Lower	Upper
97	100		
99	67.3	52.0	78.0
61	43.9	35.9	53.9





#33
1,2-Dichloroethane-d4
Concen: 51.308 ug/l
RT: 8.583 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

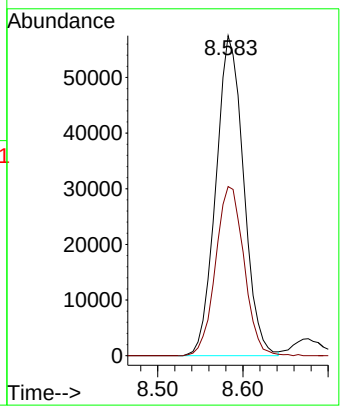
Tgt Ion: 65 Resp: 12991

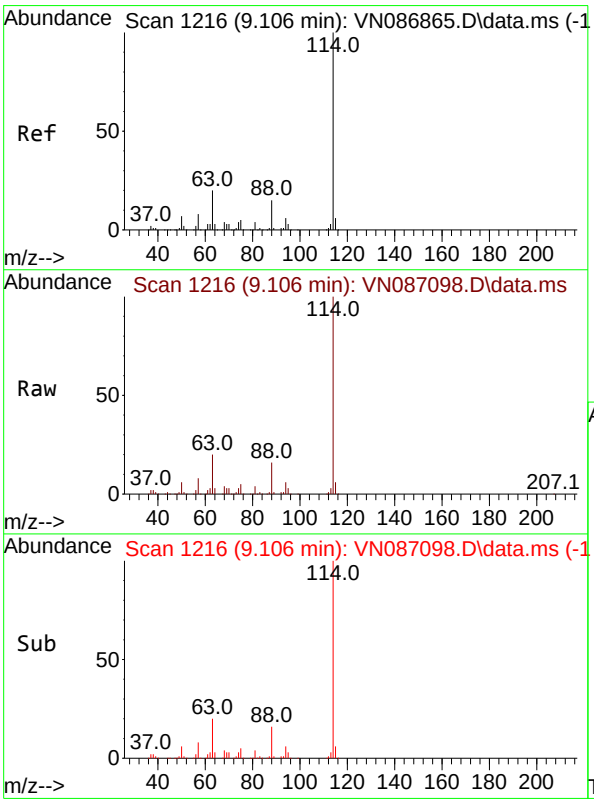
Ion	Ratio	Lower	Upper
65	100		
67	54.2	0.0	105.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

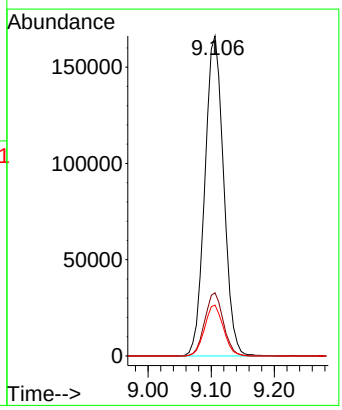


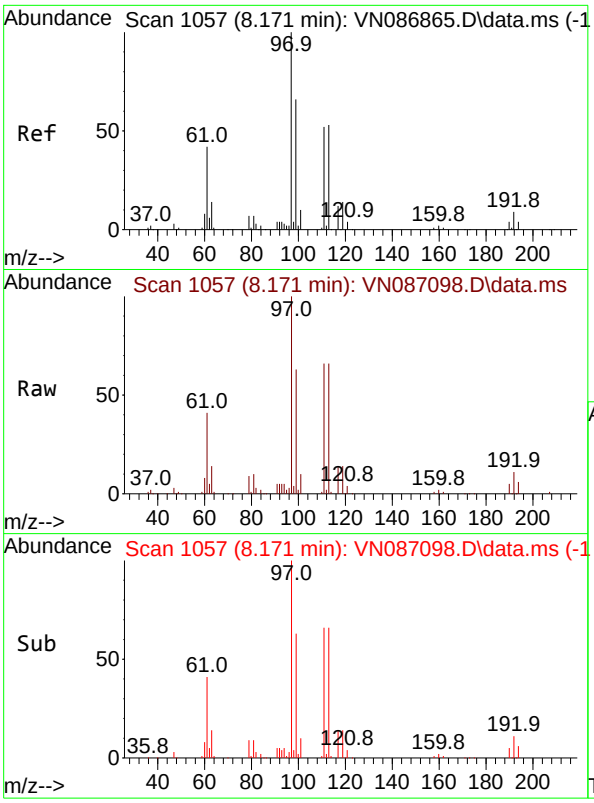


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:114 Resp: 343303

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.6
88	15.9	0.0	30.2

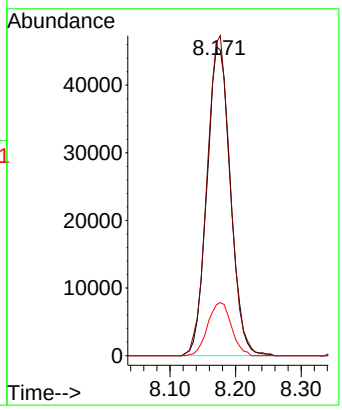




#35
Dibromofluoromethane
Concen: 55.912 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:113 Resp: 11375

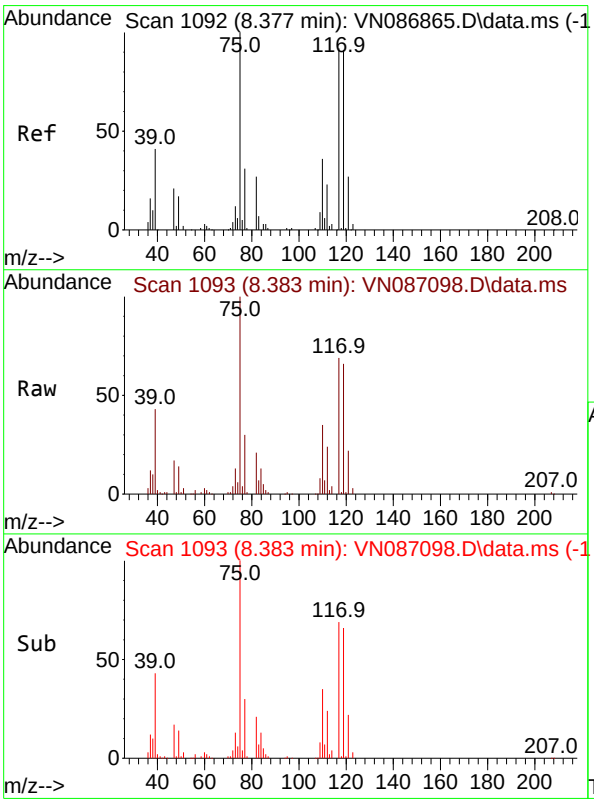
Ion	Ratio	Lower	Upper
113	100		
111	102.1	84.2	126.2
192	17.3	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

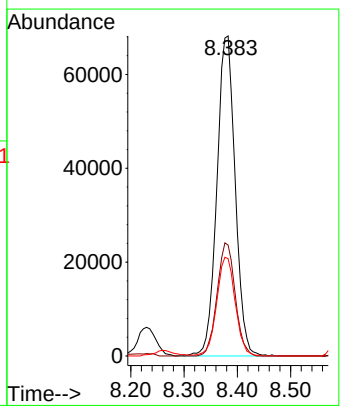
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

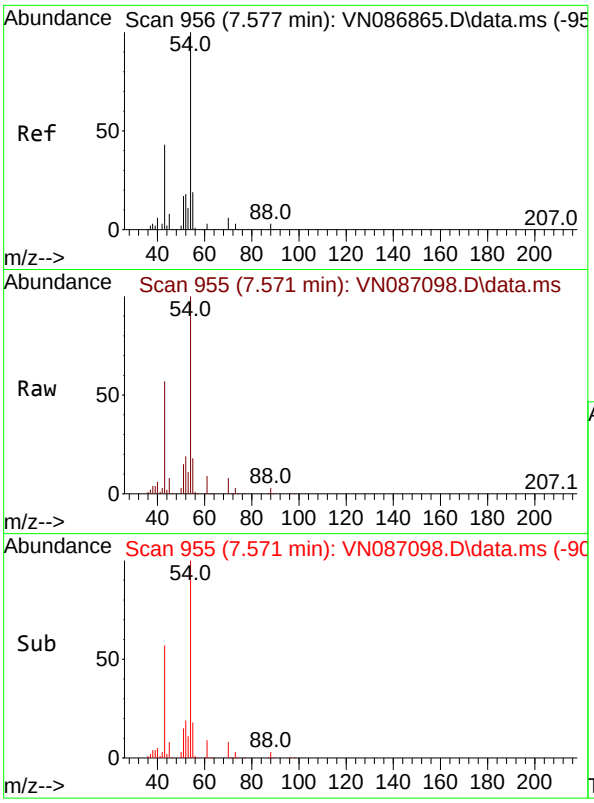


#36
1,1-Dichloropropene
Concen: 53.726 ug/l
RT: 8.383 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 75 Resp: 162876

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.6	52.9
77	31.2	25.3	37.9

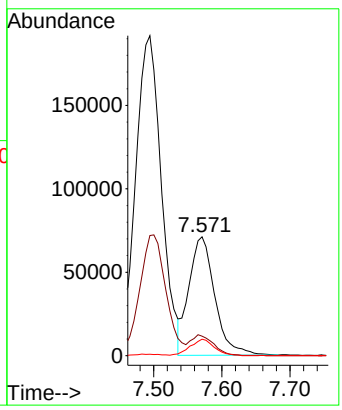




#37
Ethyl Acetate
Concen: 48.515 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 43 Resp: 18723

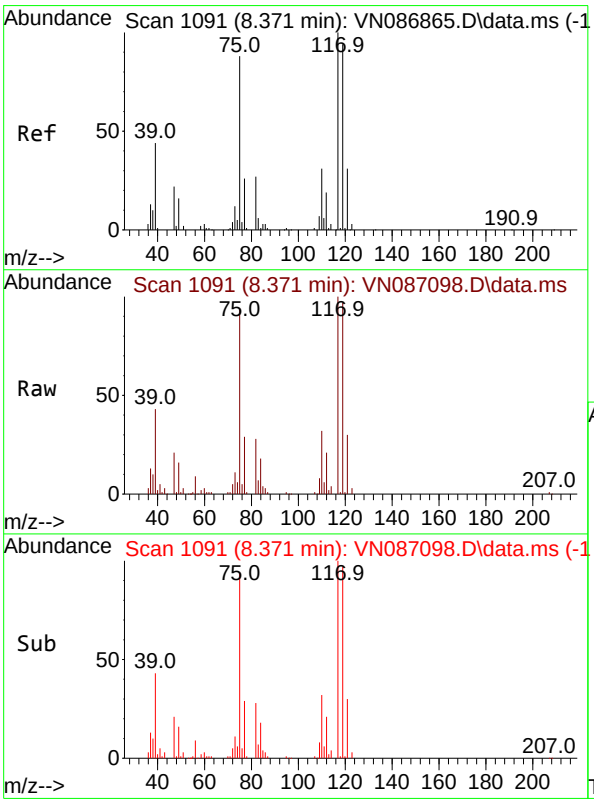
Ion	Ratio	Lower	Upper
43	100		
61	15.5	12.1	18.1
70	13.0	9.8	14.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

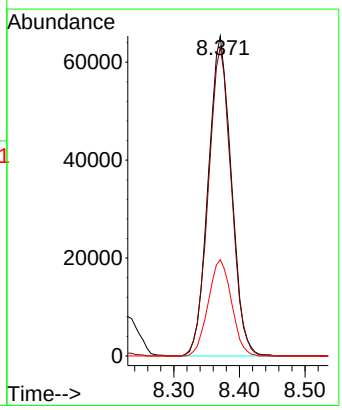
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

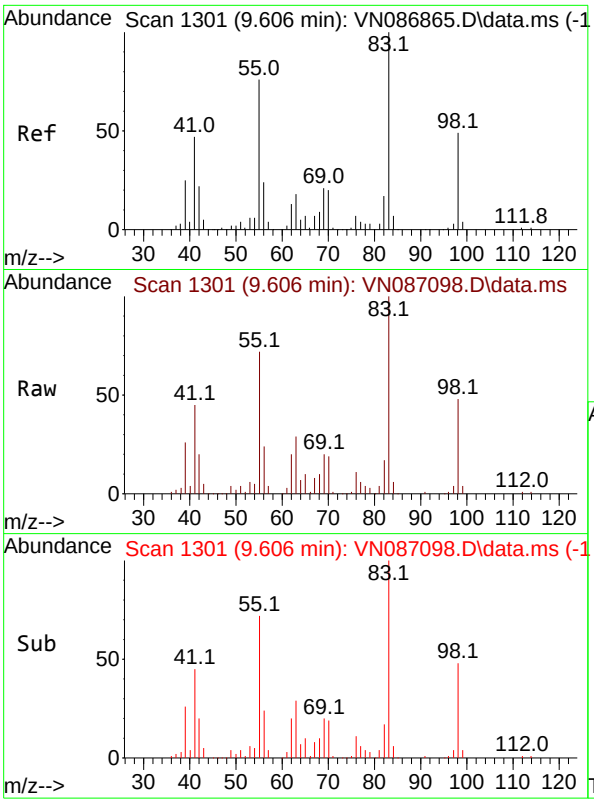


#38
Carbon Tetrachloride
Concen: 53.568 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:117 Resp: 159437

Ion	Ratio	Lower	Upper
117	100		
119	96.6	75.0	112.6
121	30.1	24.9	37.3

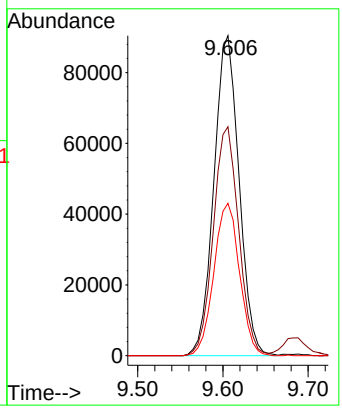




#39
Methylcyclohexane
Concen: 44.790 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 83 Resp: 18603

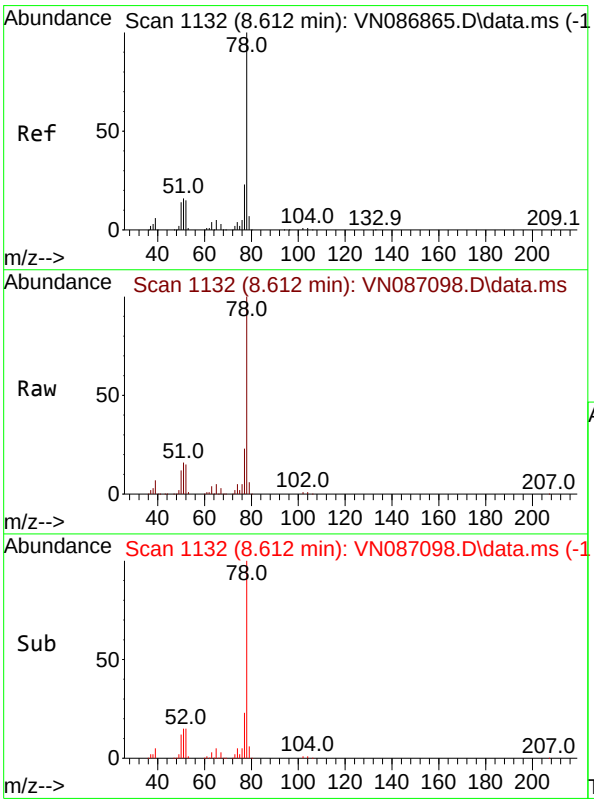
Ion	Ratio	Lower	Upper
83	100		
55	71.5	61.0	91.6
98	47.6	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

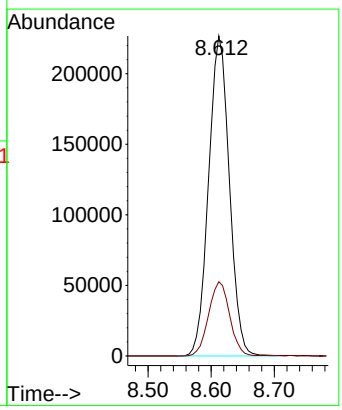
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

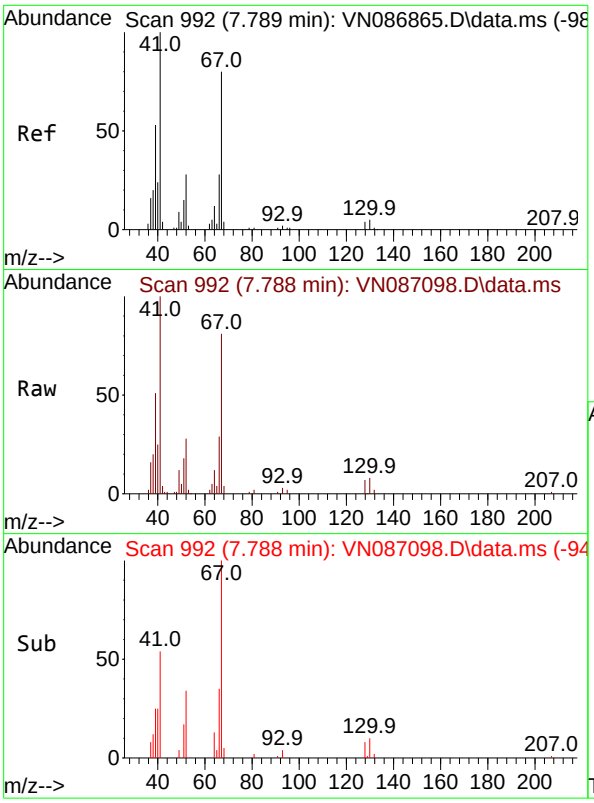


#40
Benzene
Concen: 52.225 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 78 Resp: 517732

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.7	28.1

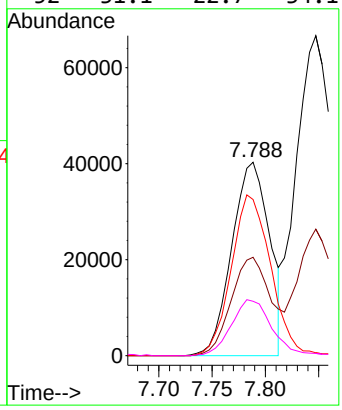




#41
Methacrylonitrile
Concen: 45.981 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 41 Resp: 9965

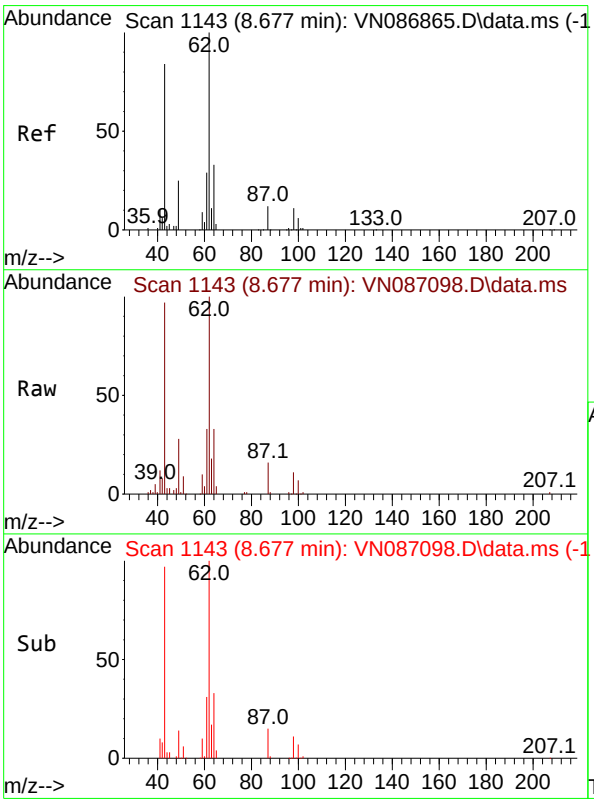
Ion	Ratio	Lower	Upper
41	100		
39	54.7	41.2	61.8
67	87.0	61.4	92.2
52	31.1	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

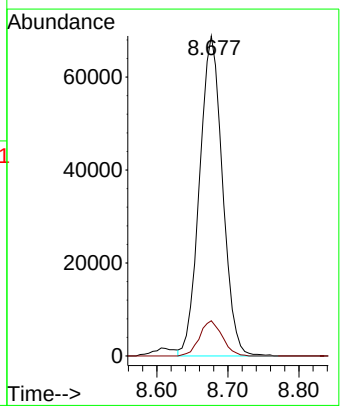
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

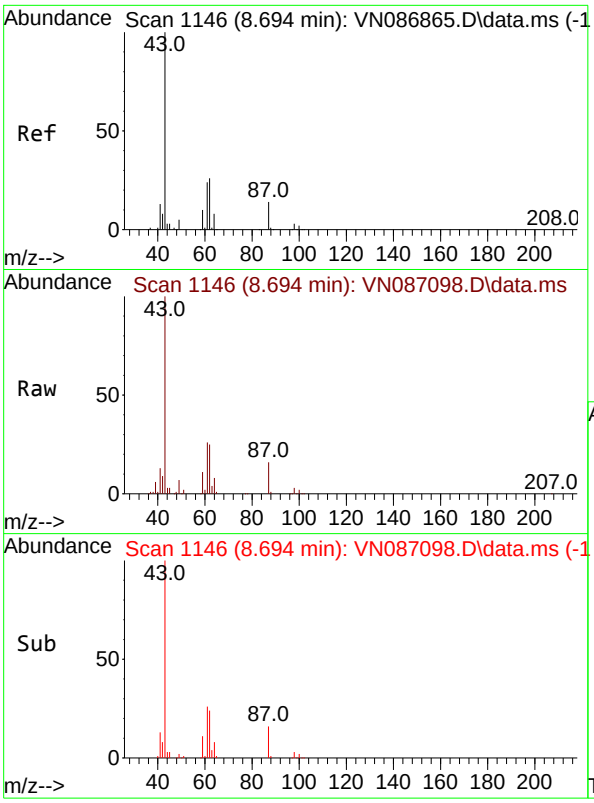


#42
1,2-Dichloroethane
Concen: 51.533 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 62 Resp: 154951

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	21.2





#43
Isopropyl Acetate
Concen: 46.481 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

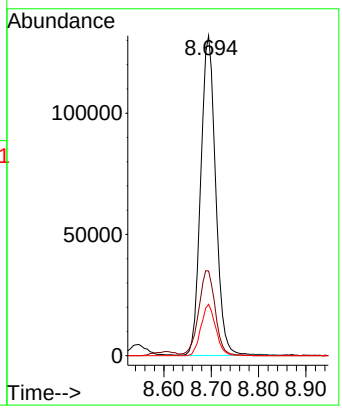
Tgt Ion: 43 Resp: 28790

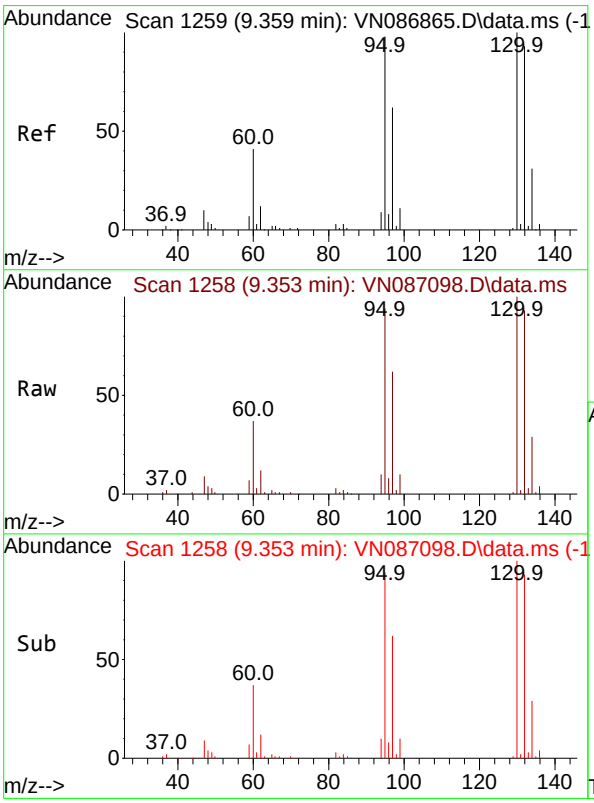
Ion	Ratio	Lower	Upper
43	100		
61	29.6	22.1	33.1
87	16.0	11.8	17.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

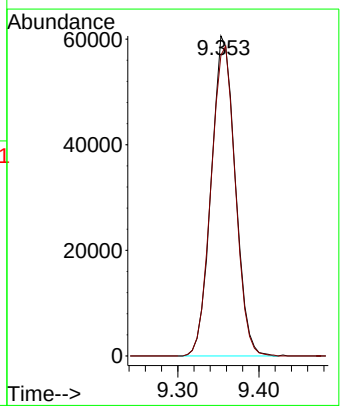


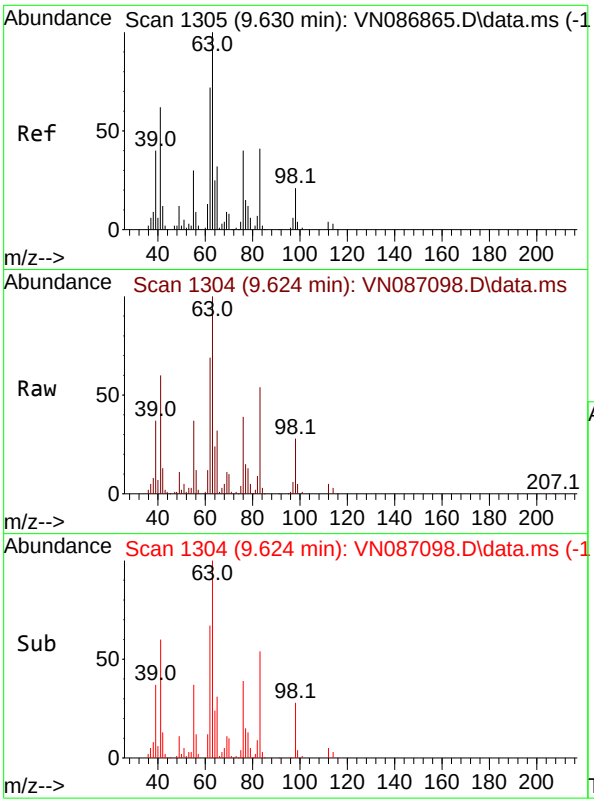


#44
Trichloroethene
Concen: 52.982 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:130 Resp: 124543

Ion	Ratio	Lower	Upper
130	100		
95	94.0	0.0	196.2





#45
1,2-Dichloropropane
Concen: 51.954 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

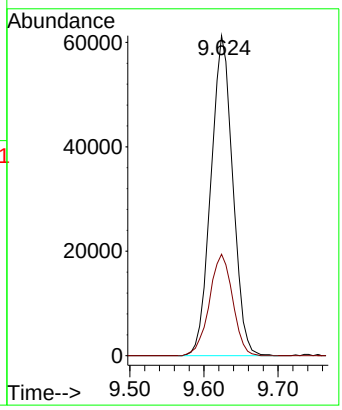
Tgt Ion: 63 Resp: 12530

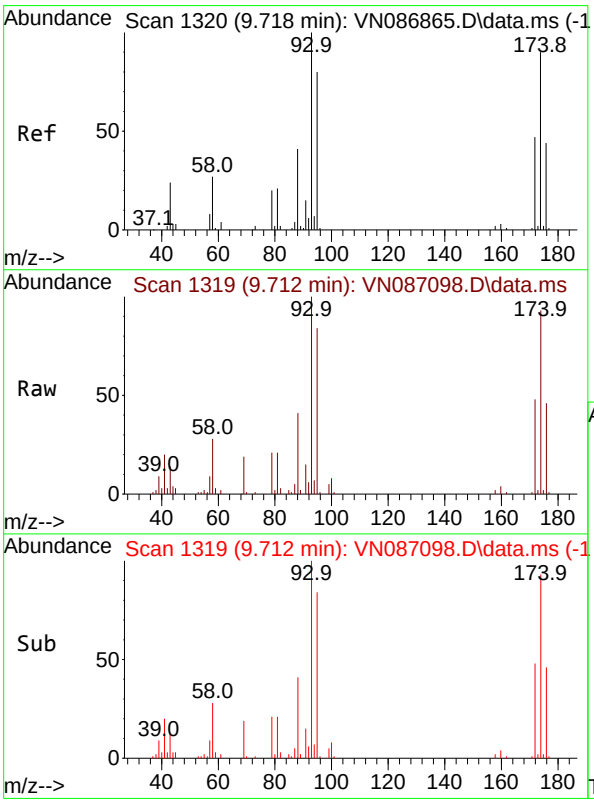
Ion	Ratio	Lower	Upper
63	100		
65	31.7	25.5	38.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

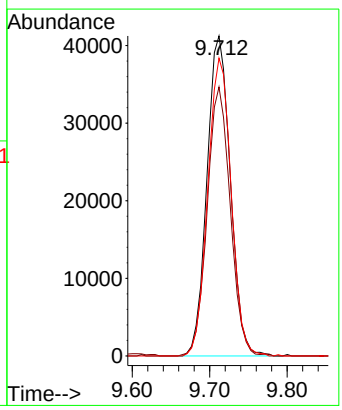


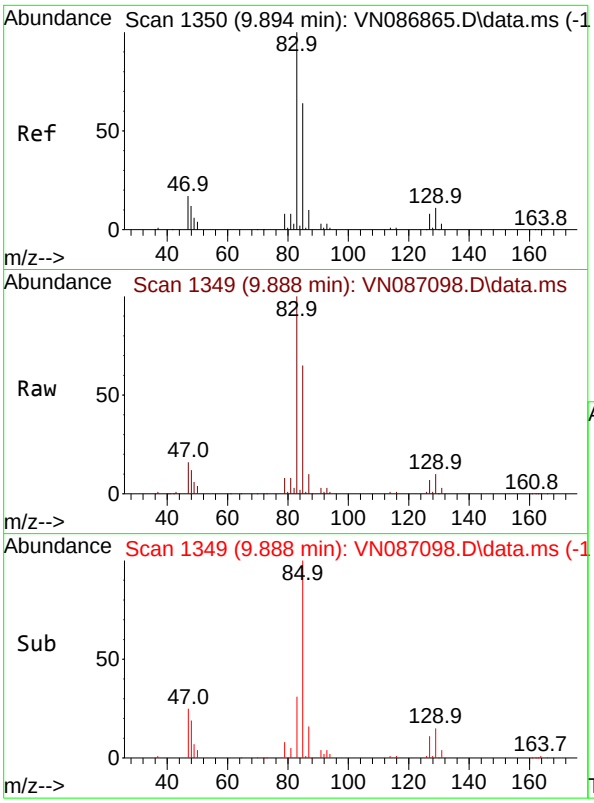


#46
Dibromomethane
Concen: 53.963 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 93 Resp: 86447

Ion	Ratio	Lower	Upper
93	100		
95	83.1	67.1	100.7
174	93.2	74.2	111.4

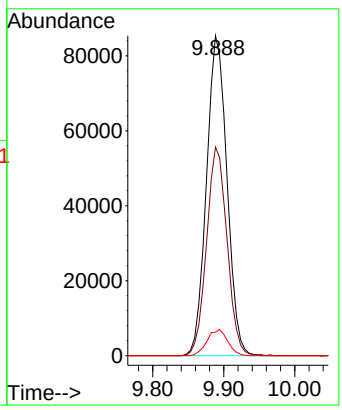




#47
Bromodichloromethane
Concen: 51.947 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 83 Resp: 17121

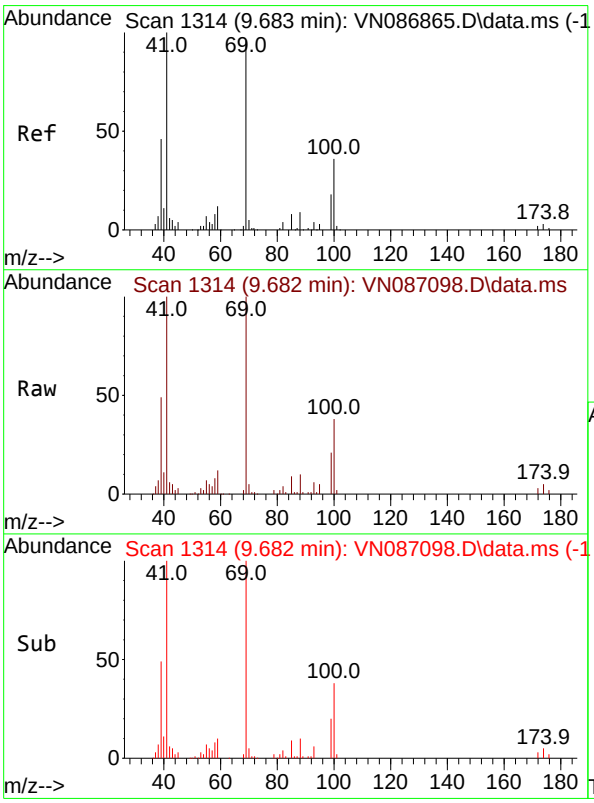
Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.9	76.3
127	7.4	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

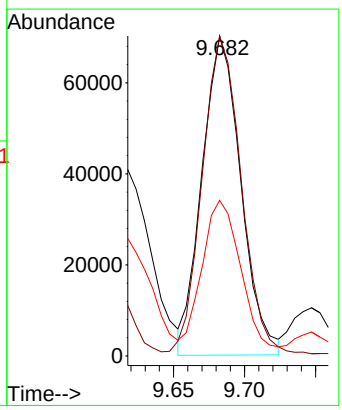
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

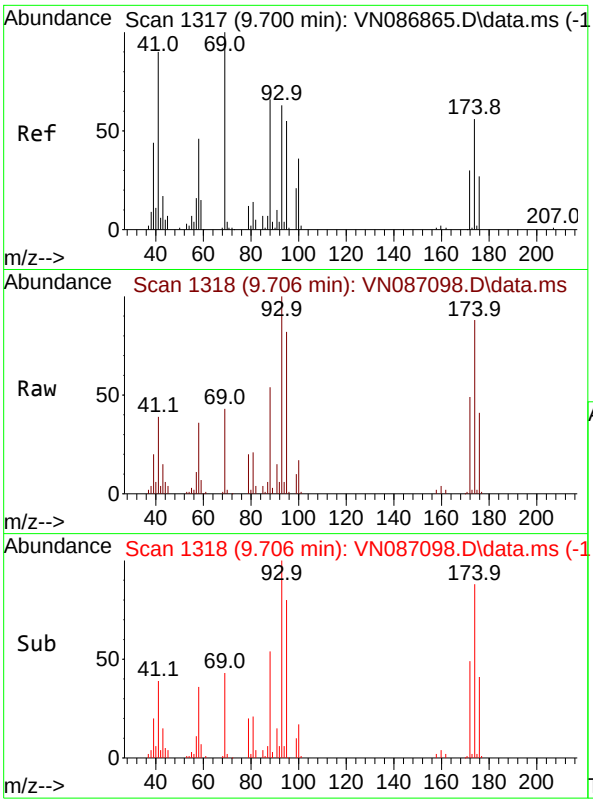


#48
Methyl methacrylate
Concen: 46.733 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 41 Resp: 133232

Ion	Ratio	Lower	Upper
41	100		
69	102.8	74.6	112.0
39	49.9	40.2	60.4





#49
1,4-Dioxane
Concen: 996.635 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

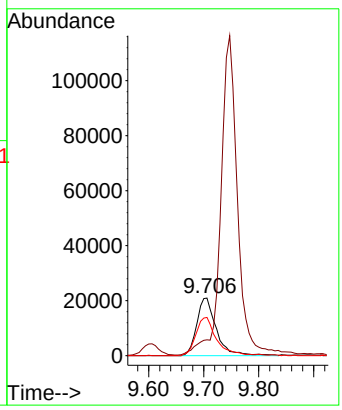
Tgt Ion: 88 Resp: 5169

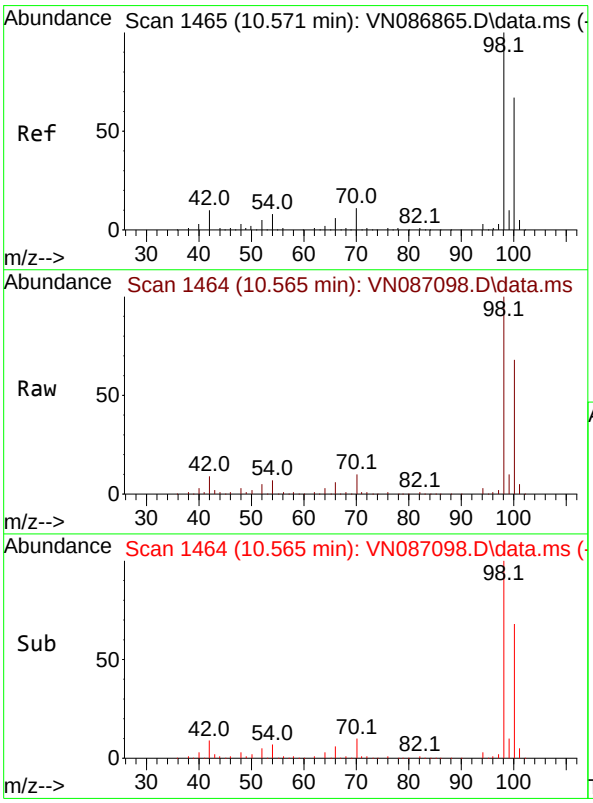
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	69.9	57.7	86.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

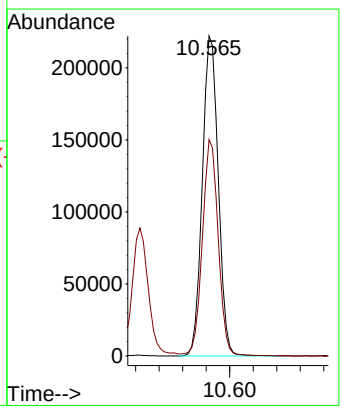


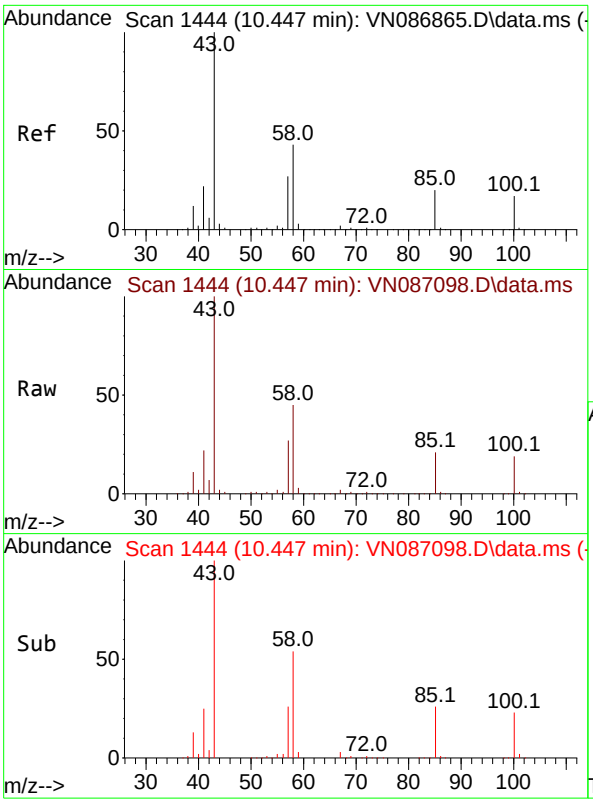


#50
Toluene-d8
Concen: 51.677 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 98 Resp: 416207

Ion	Ratio	Lower	Upper
98	100		
100	67.4	53.4	80.0





#51
4-Methyl-2-Pentanone
Concen: 245.922 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

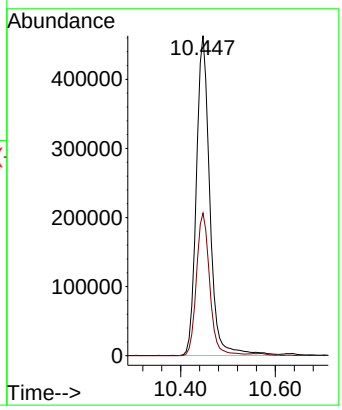
Tgt Ion: 43 Resp: 91701

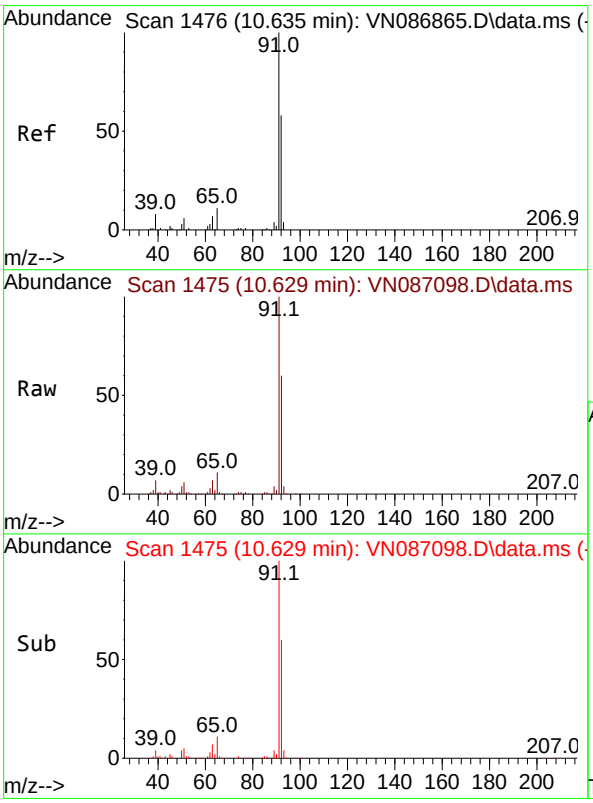
Ion	Ratio	Lower	Upper
43	100		
58	44.0	34.2	51.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

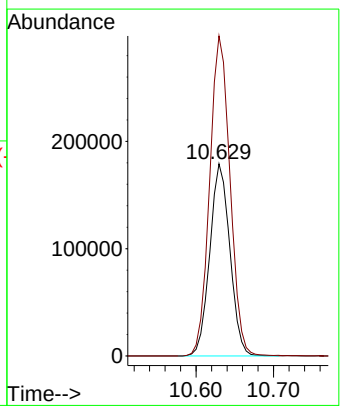


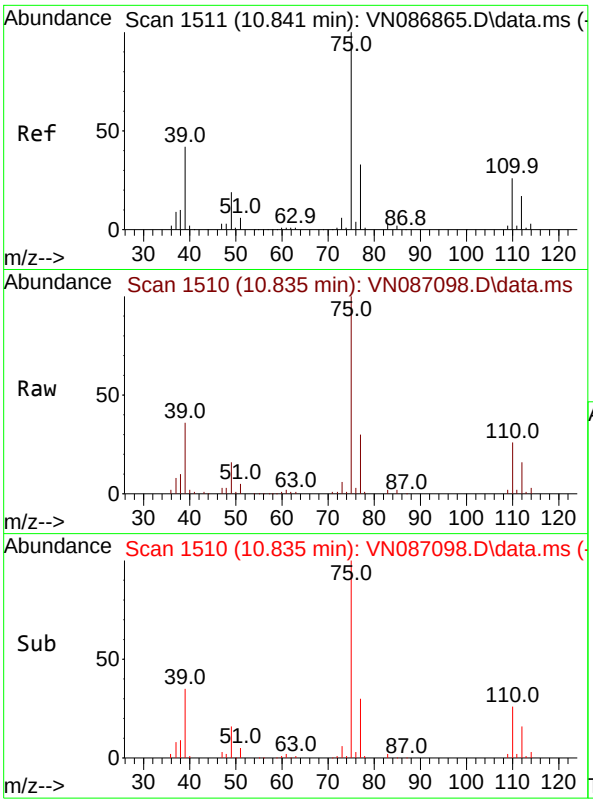


#52
Toluene
Concen: 53.238 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 92 Resp: 322535

Ion	Ratio	Lower	Upper
92	100		
91	168.8	136.5	204.7

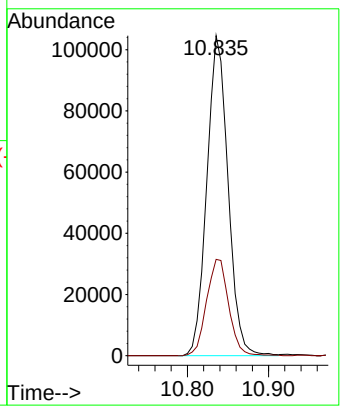




#53
t-1,3-Dichloropropene
Concen: 51.432 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 75 Resp: 18955

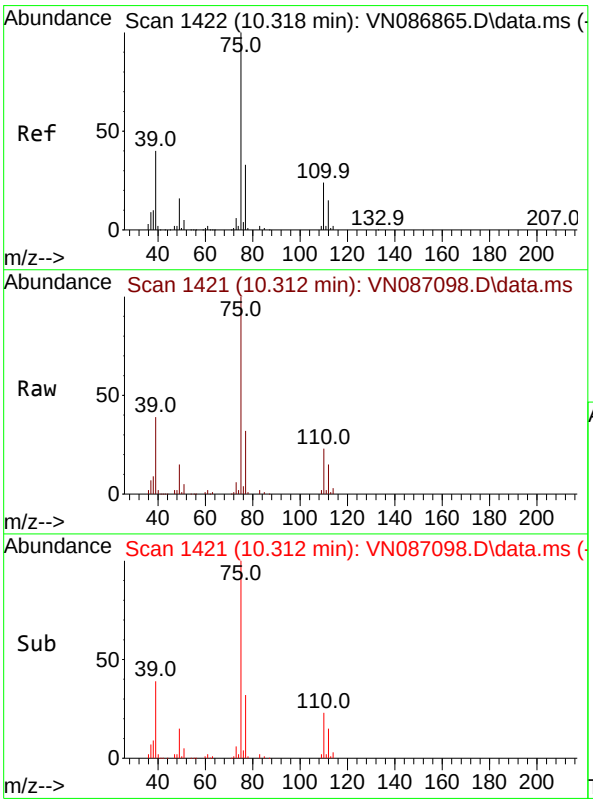
Ion	Ratio	Lower	Upper
75	100		
77	30.1	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

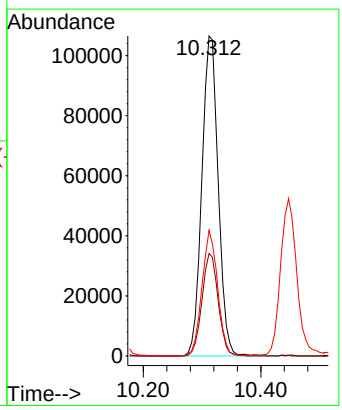
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

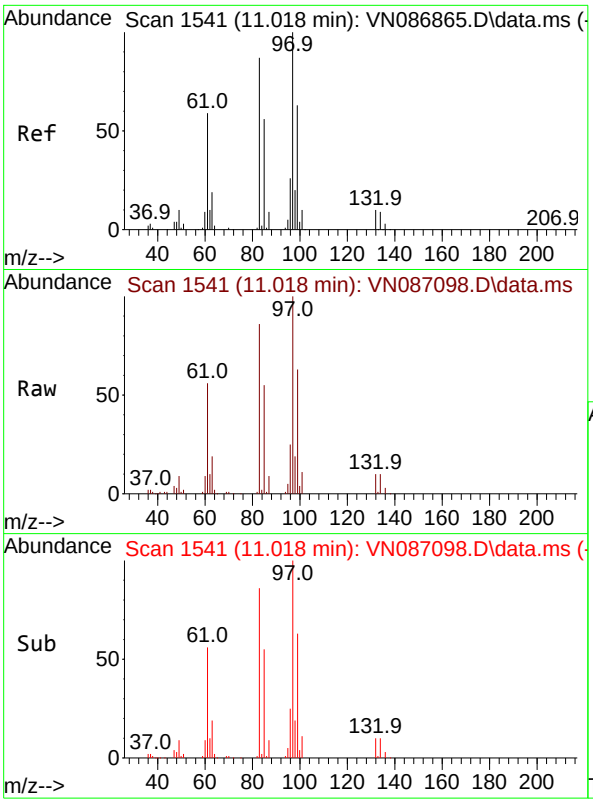


#54
cis-1,3-Dichloropropene
Concen: 52.274 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 75 Resp: 206140

Ion	Ratio	Lower	Upper
75	100		
77	32.0	26.2	39.4
39	39.2	32.3	48.5

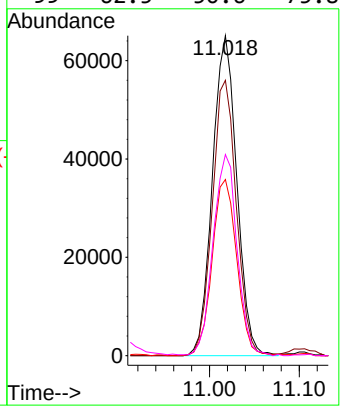




#55
1,1,2-Trichloroethane
Concen: 52.632 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 97 Resp: 12269

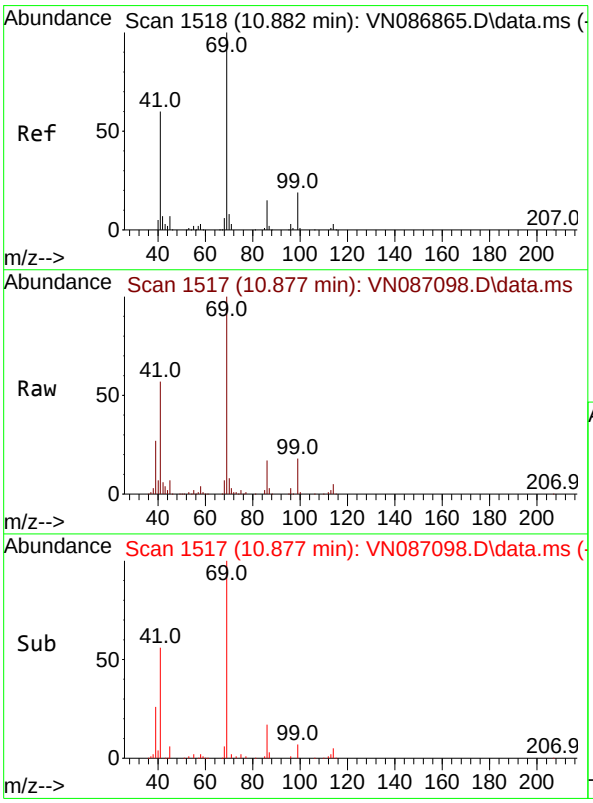
Ion	Ratio	Lower	Upper
97	100		
83	86.0	69.7	104.5
85	55.0	45.1	67.7
99	62.5	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

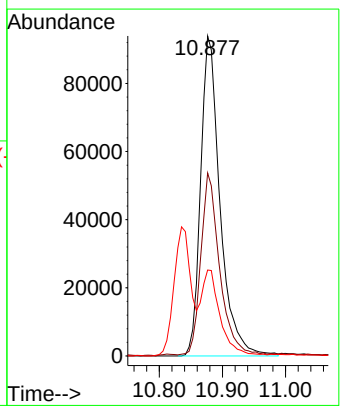
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

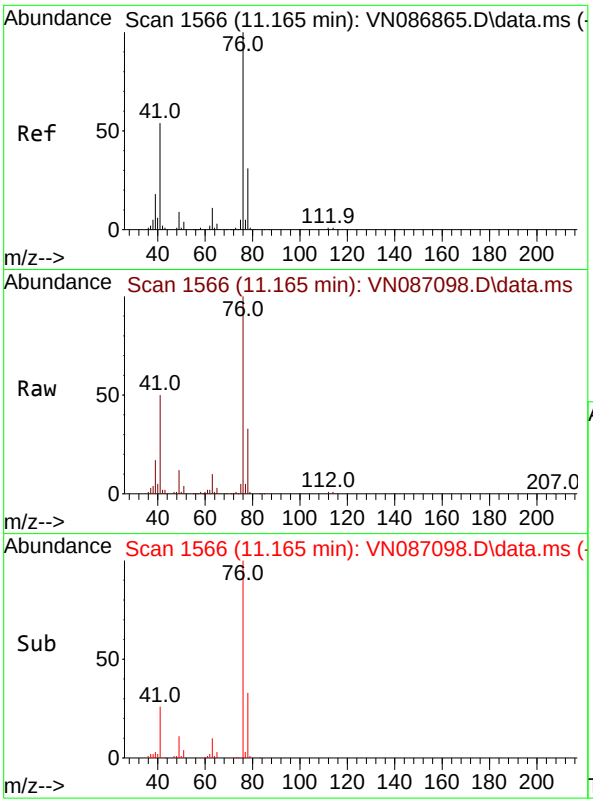


#56
Ethyl methacrylate
Concen: 53.942 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 69 Resp: 200286

Ion	Ratio	Lower	Upper
69	100		
41	54.8	47.2	70.8
39	25.4	23.0	34.6





#57
1,3-Dichloropropane
Concen: 52.304 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

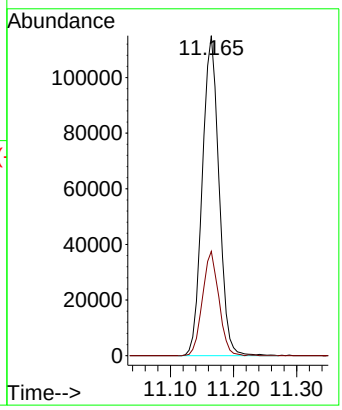
Tgt Ion: 76 Resp: 21151

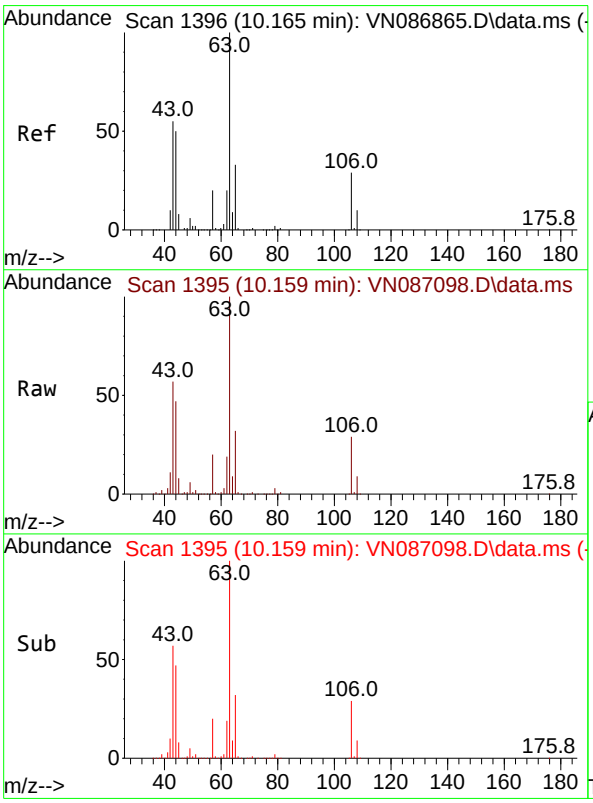
Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.3	37.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

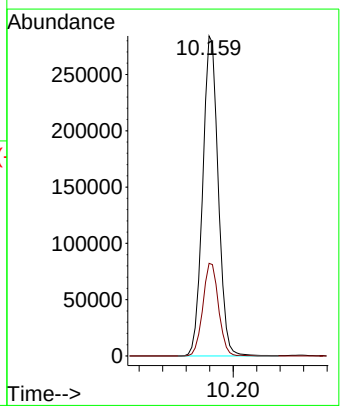


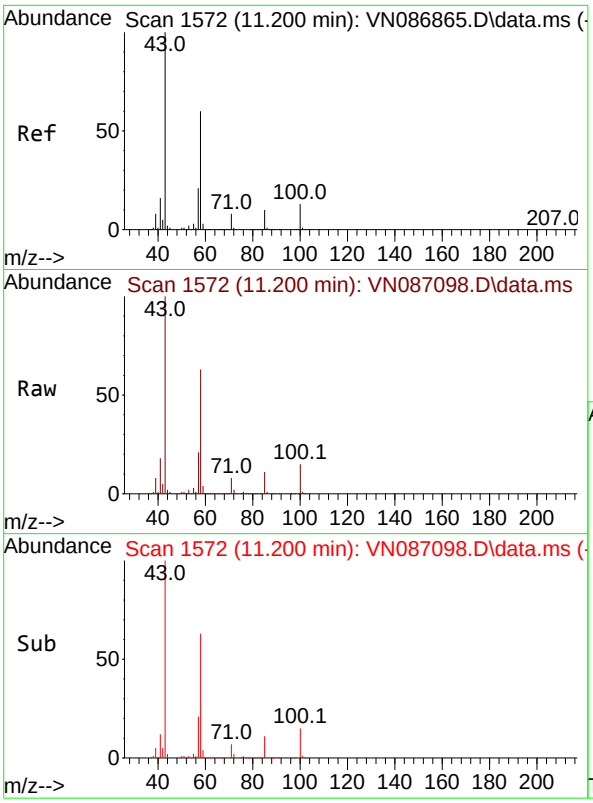


#58
2-Chloroethyl Vinyl ether
Concen: 235.679 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 63 Resp: 521933

Ion	Ratio	Lower	Upper
63	100		
106	29.3	23.0	34.6





#59
2-Hexanone
Concen: 255.969 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

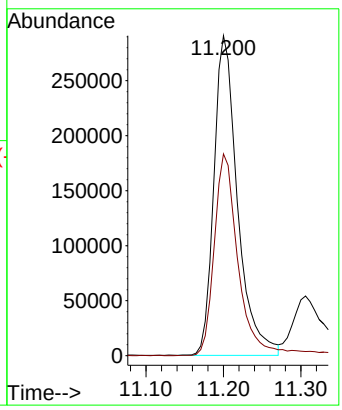
Tgt Ion: 43 Resp: 61481

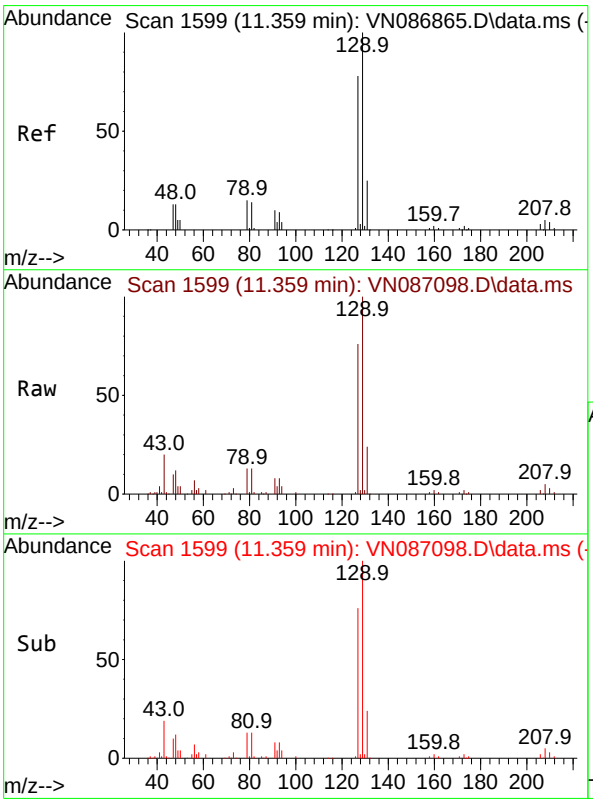
Ion	Ratio	Lower	Upper
43	100		
58	66.1	30.4	91.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

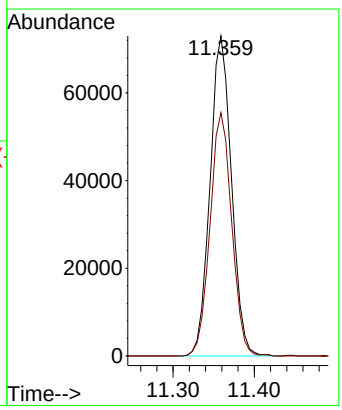


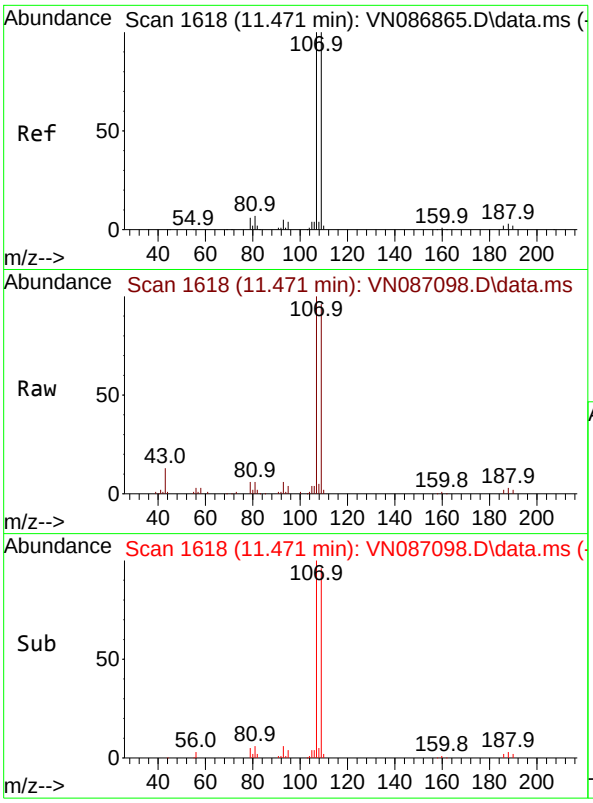


#60
Dibromochloromethane
Concen: 55.092 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:129 Resp: 133807

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.6	115.8

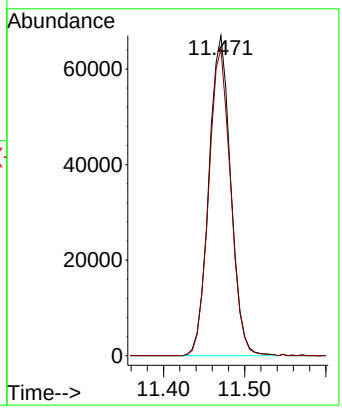




#61
1,2-Dibromoethane
Concen: 52.343 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:107 Resp: 12506

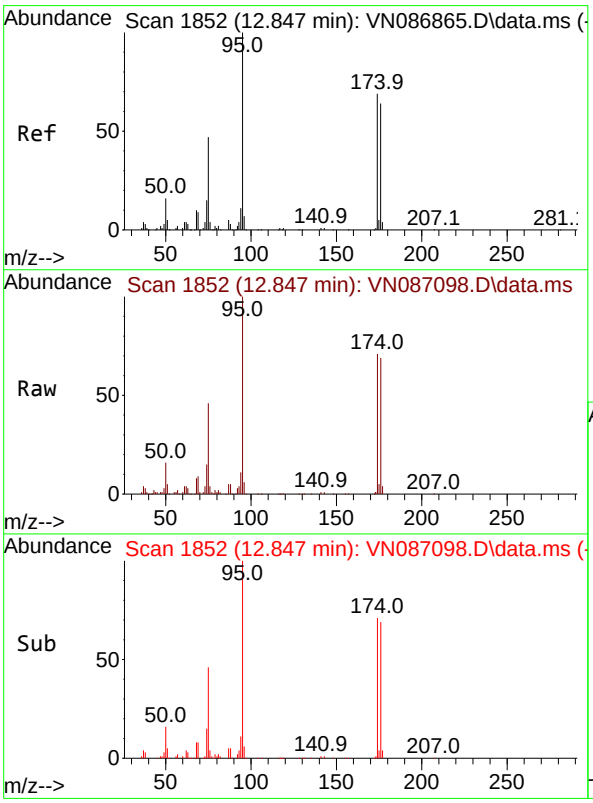
Ion	Ratio	Lower	Upper
107	100		
109	95.9	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

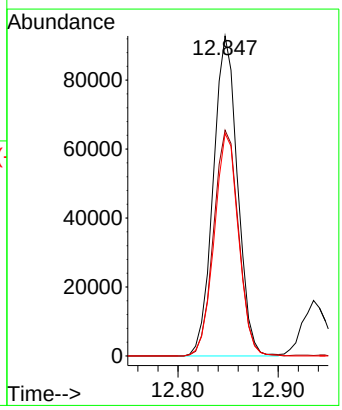
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

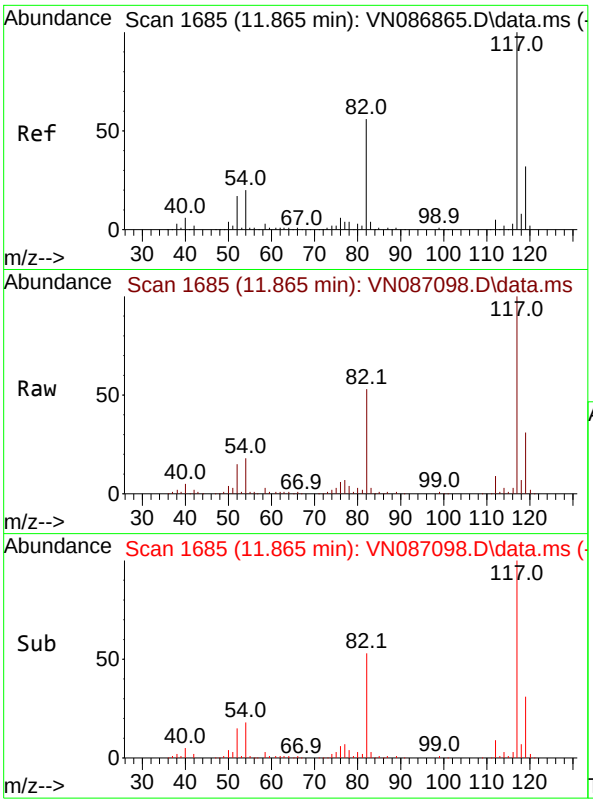


#62
4-Bromofluorobenzene
Concen: 52.246 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 95 Resp: 156337

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	141.8
176	69.5	0.0	132.6

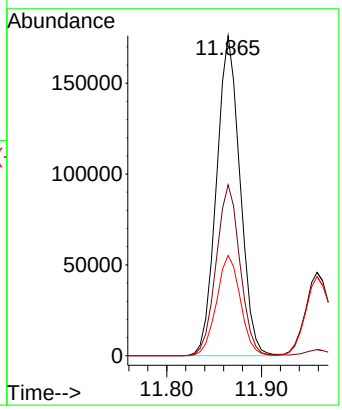




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:117 Resp: 30382

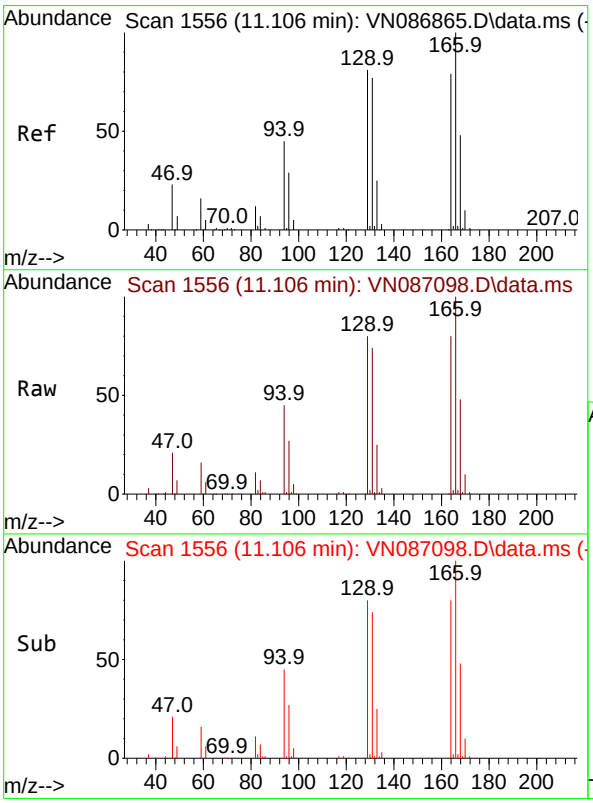
Ion	Ratio	Lower	Upper
117	100		
82	53.4	44.6	67.0
119	31.3	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

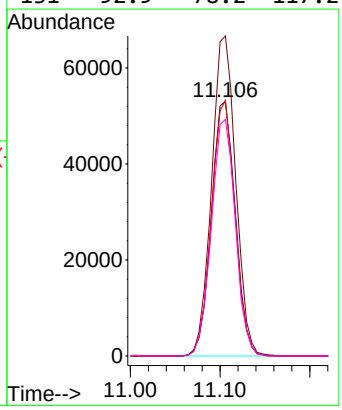
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

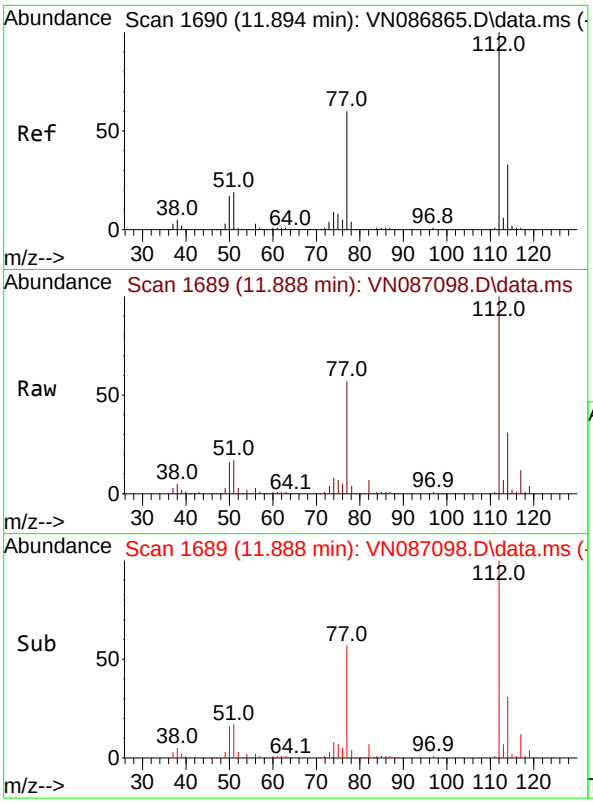


#64
Tetrachloroethene
Concen: 51.129 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:164 Resp: 98311

Ion	Ratio	Lower	Upper
164	100		
166	125.7	101.8	152.8
129	100.5	83.0	124.4
131	92.9	78.2	117.2

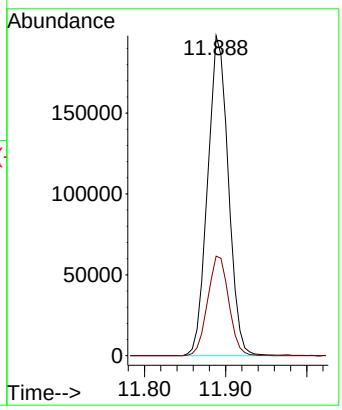




#65
Chlorobenzene
Concen: 52.261 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:112 Resp: 35020

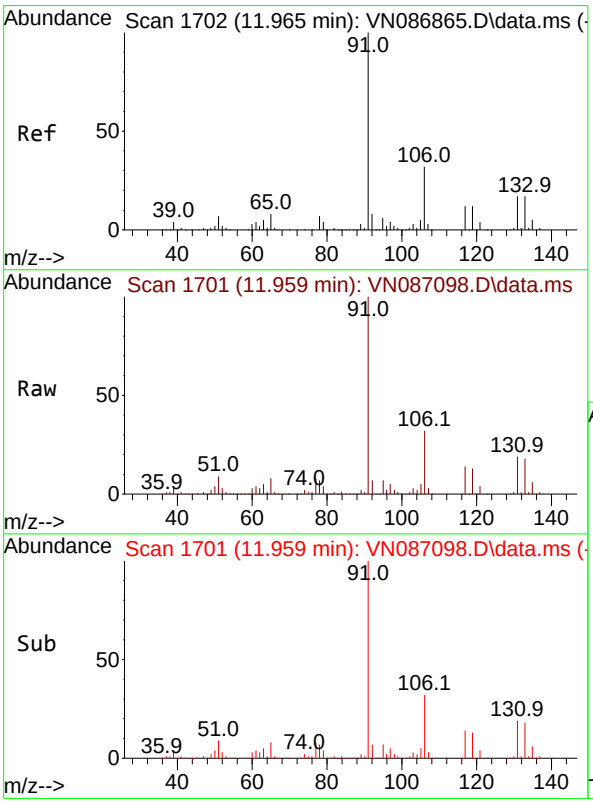
Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

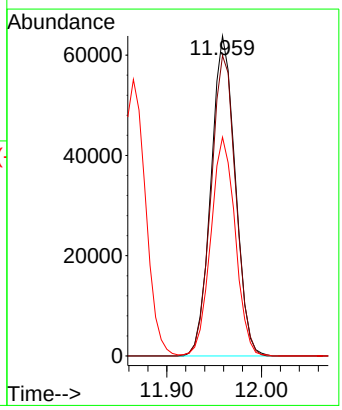
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

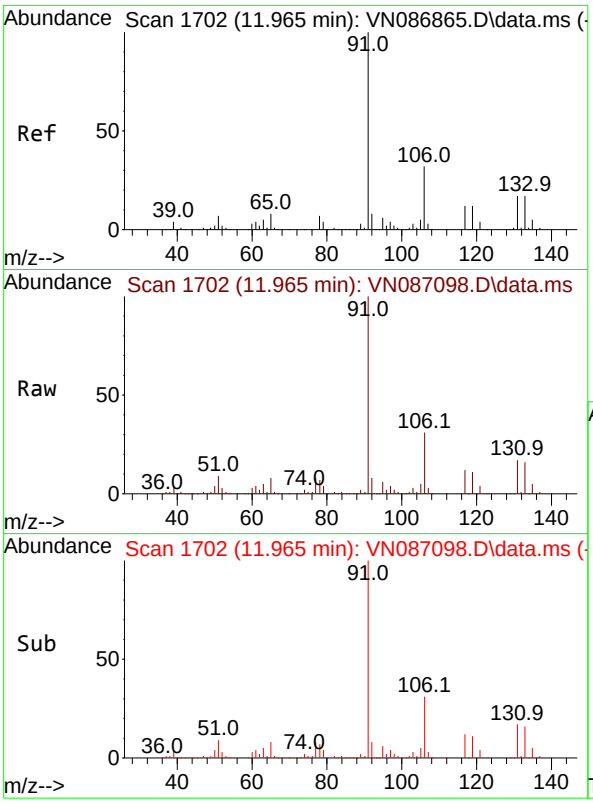


#66
1,1,1,2-Tetrachloroethane
Concen: 52.707 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:131 Resp: 113531

Ion	Ratio	Lower	Upper
131	100		
133	95.7	48.3	144.8
119	68.9	34.0	101.8

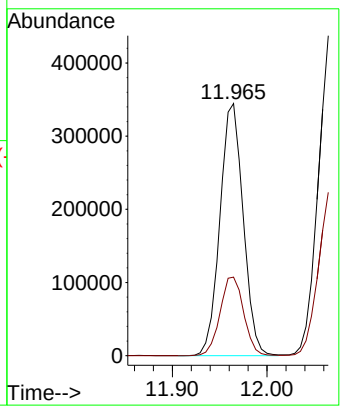




#67
Ethyl Benzene
Concen: 51.046 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 91 Resp: 58918

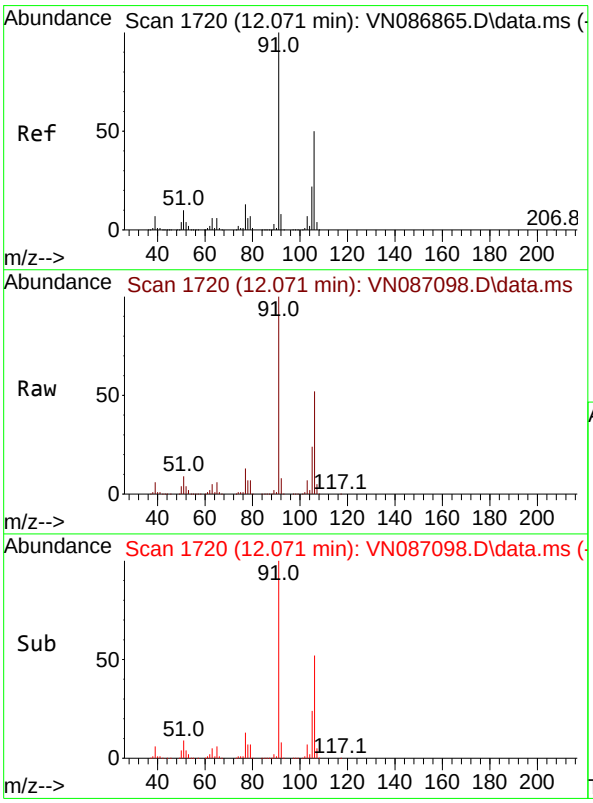
Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

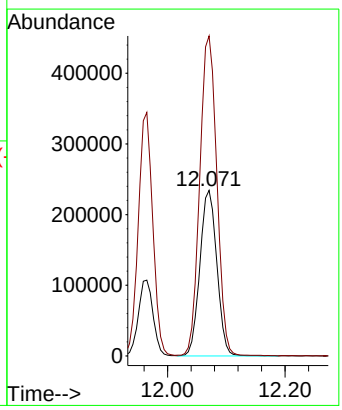
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

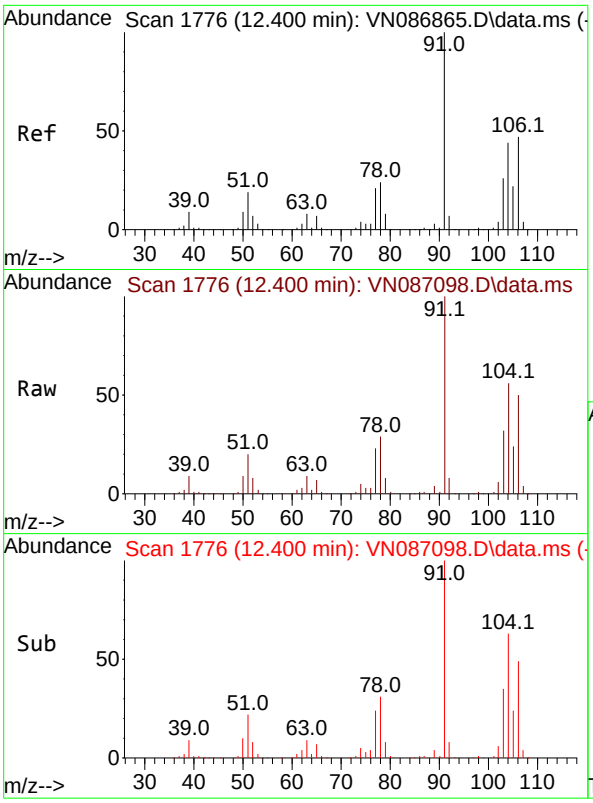


#68
m/p-Xylenes
Concen: 105.923 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:106 Resp: 468010

Ion	Ratio	Lower	Upper
106	100		
91	195.0	159.4	239.0

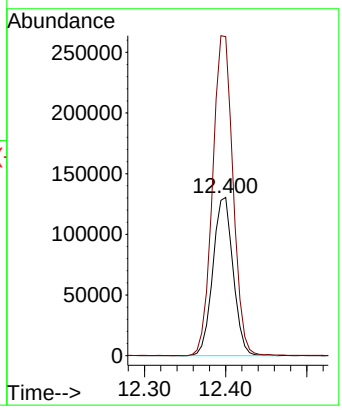




#69
o-Xylene
Concen: 53.380 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:106 Resp: 22588

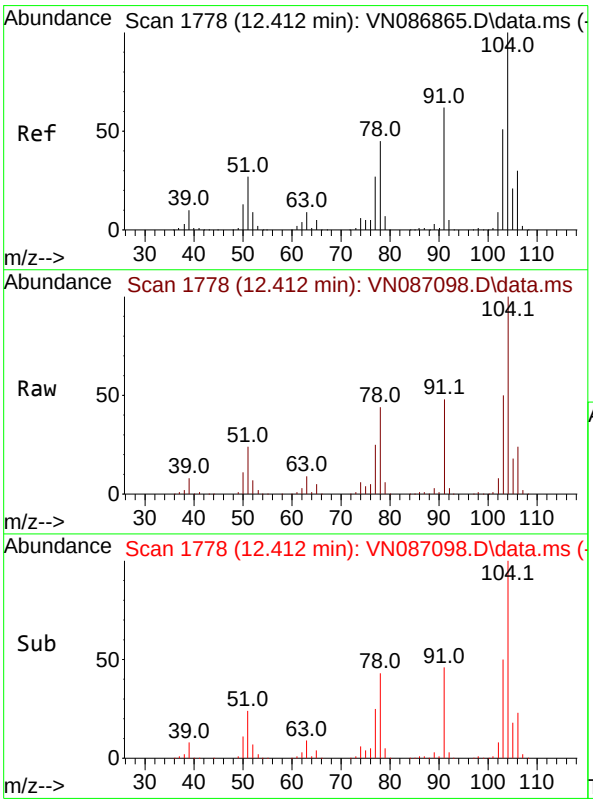
Ion	Ratio	Lower	Upper
106	100		
91	204.9	106.1	318.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

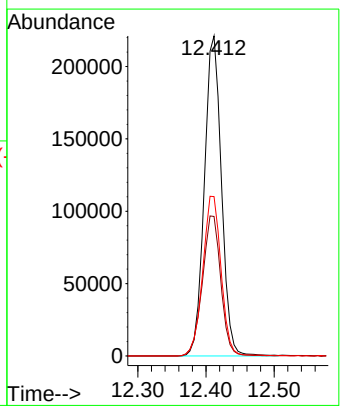
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

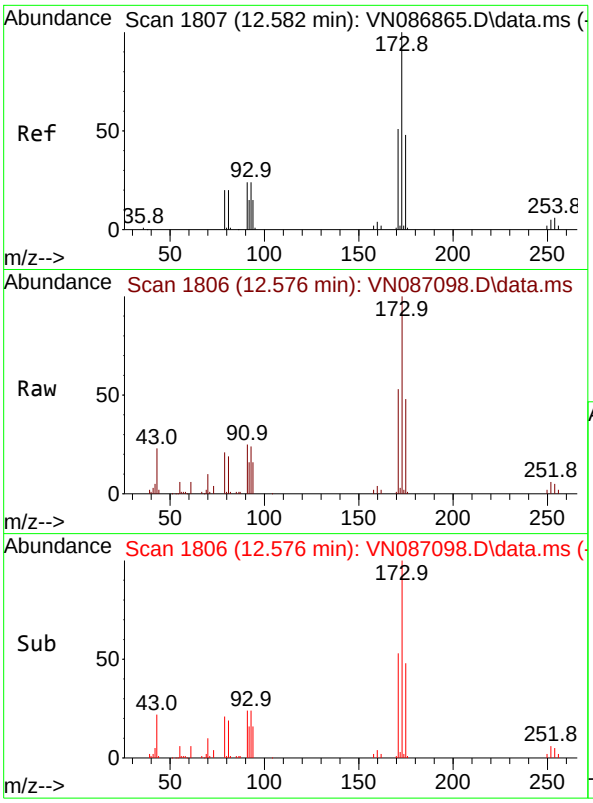


#70
Styrene
Concen: 53.338 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:104 Resp: 386227

Ion	Ratio	Lower	Upper
104	100		
78	47.1	38.5	57.7
103	53.6	43.1	64.7

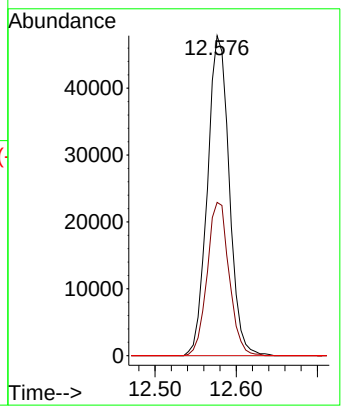




#71
Bromoform
Concen: 55.877 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

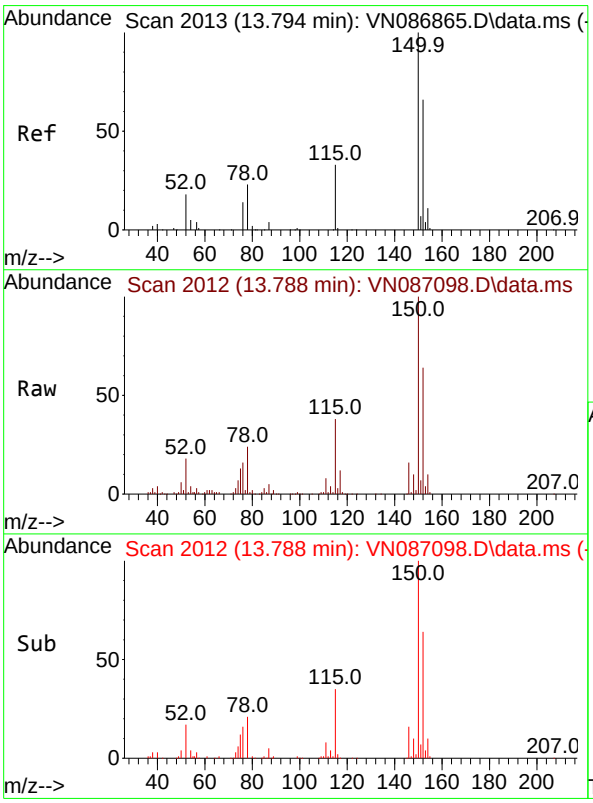
Tgt Ion:173 Resp: 8918

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

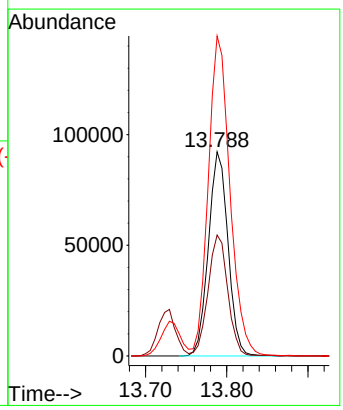
Manual Integrations APPROVED
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

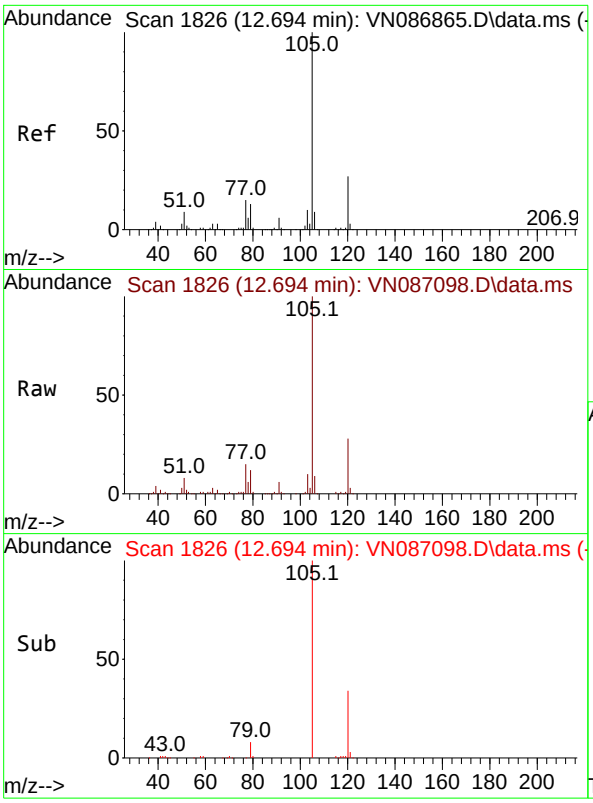


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:152 Resp: 154355

Ion	Ratio	Lower	Upper
152	100		
115	58.9	30.1	90.5
150	173.9	0.0	345.0





#73
Isopropylbenzene
Concen: 49.133 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

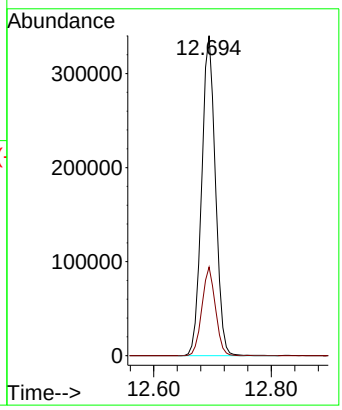
Tgt Ion:105 Resp: 55249

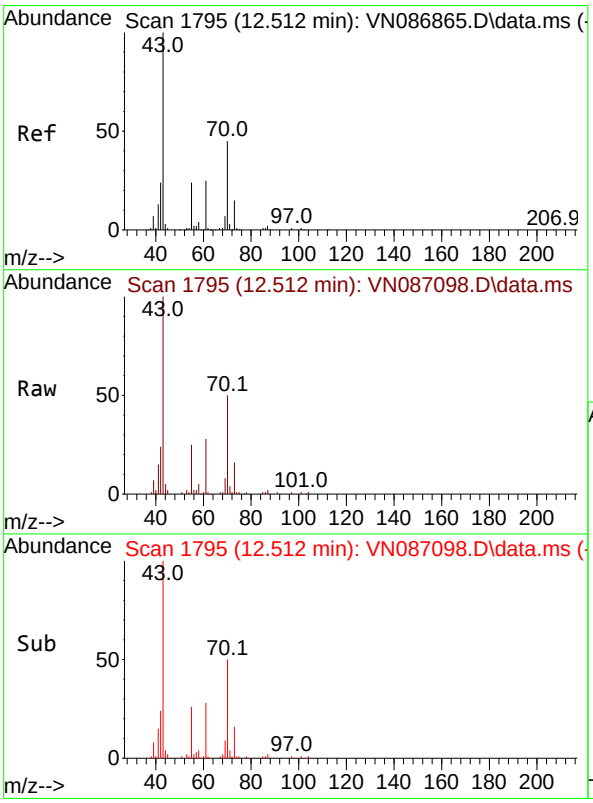
Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.5	40.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

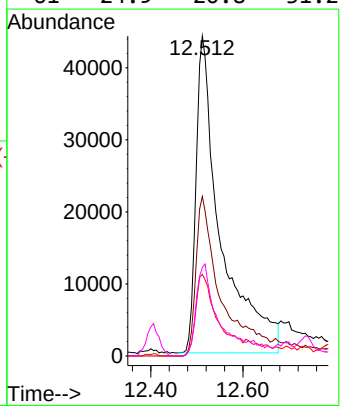


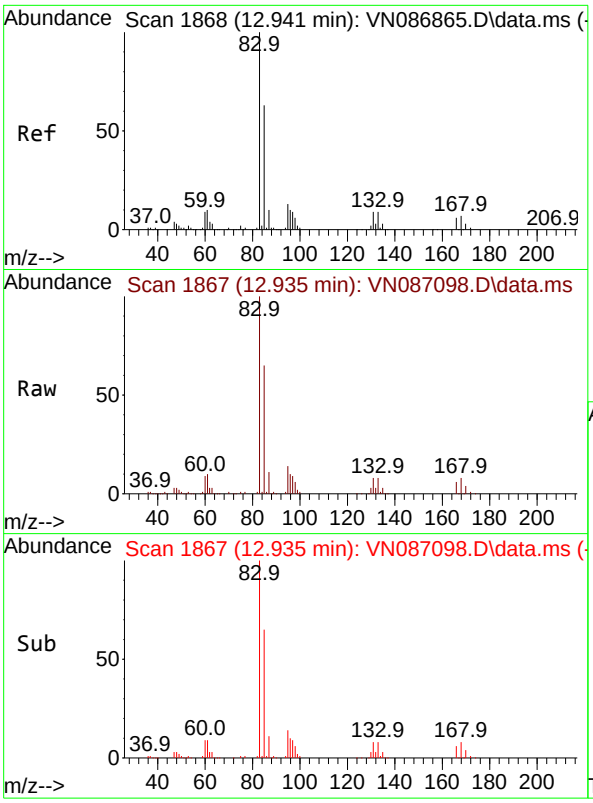


#74
N-amyl acetate
Concen: 41.777 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 43 Resp: 164161

Ion	Ratio	Lower	Upper
43	100		
70	50.3	37.6	56.4
55	23.0	19.0	28.6
61	24.9	20.8	31.2

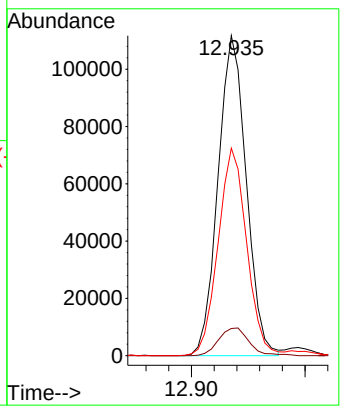




#75
1,1,2,2-Tetrachloroethane
Concen: 50.650 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 83 Resp: 19295

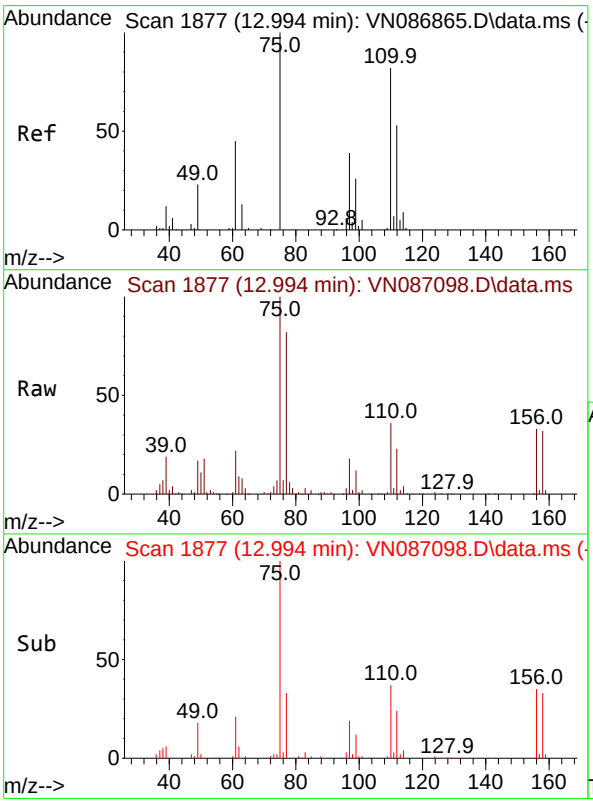
Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.9	14.7
85	65.7	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

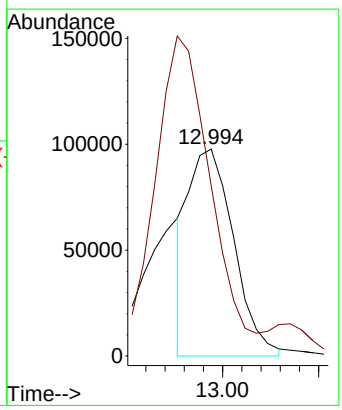
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

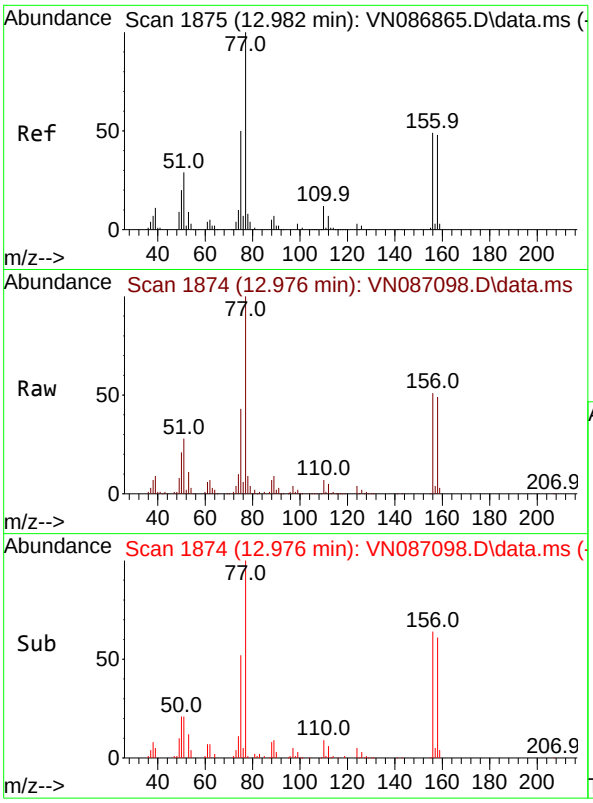


#76
1,2,3-Trichloropropane
Concen: 43.739 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 75 Resp: 160483

Ion	Ratio	Lower	Upper
75	100		
77	190.6	79.3	237.9





#77
Bromobenzene
Concen: 52.642 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

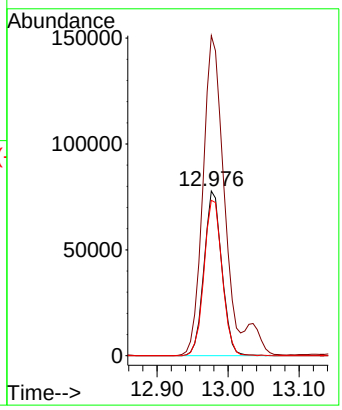
Tgt Ion:156 Resp: 13575

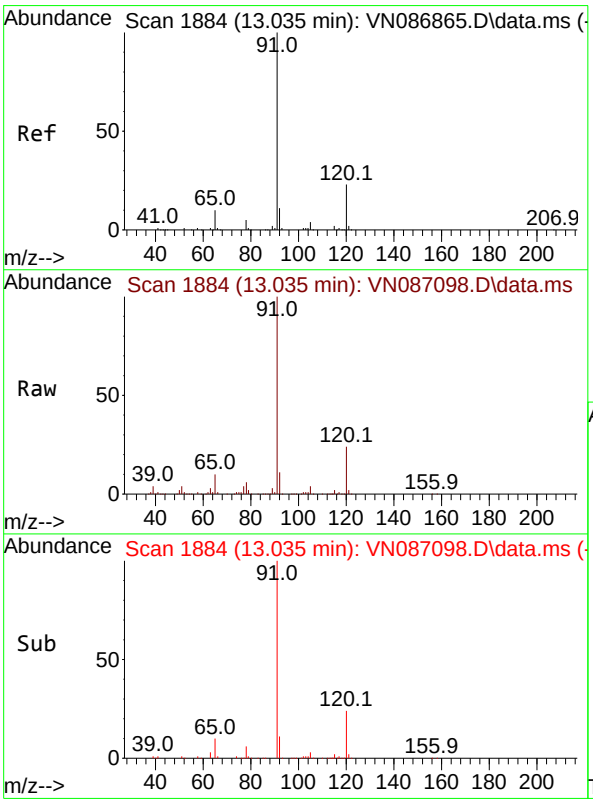
Ion	Ratio	Lower	Upper
156	100		
77	225.4	117.7	353.1
158	96.1	48.1	144.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

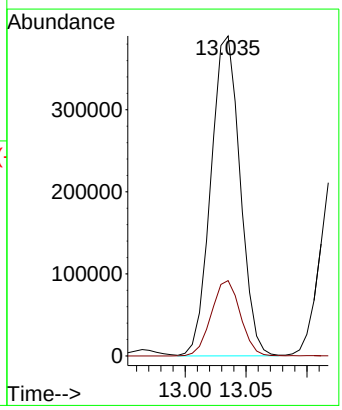


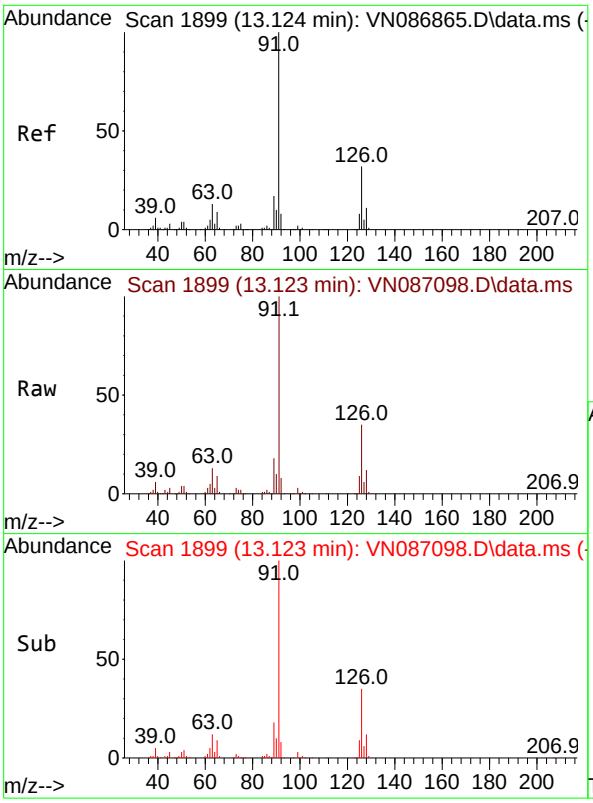


#78
n-propylbenzene
Concen: 47.599 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 91 Resp: 650467

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.4	34.2





#79
2-Chlorotoluene
Concen: 47.985 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

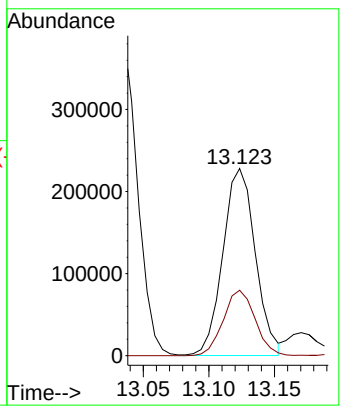
Tgt Ion: 91 Resp: 39325

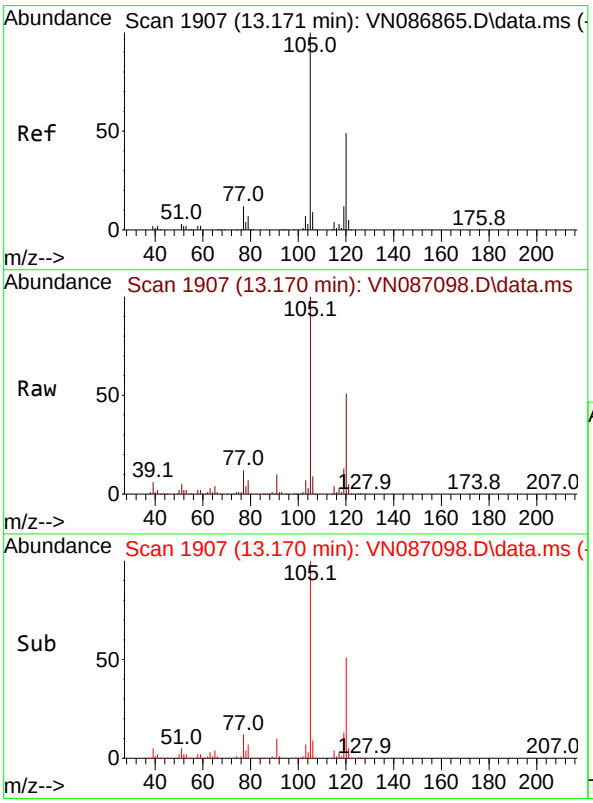
Ion	Ratio	Lower	Upper
91	100		
126	34.4	16.2	48.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

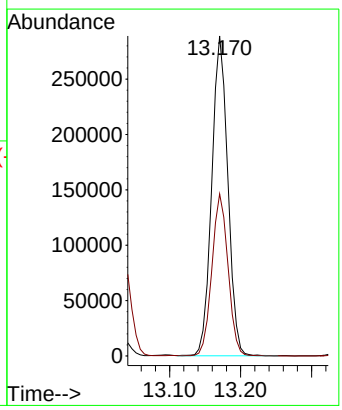


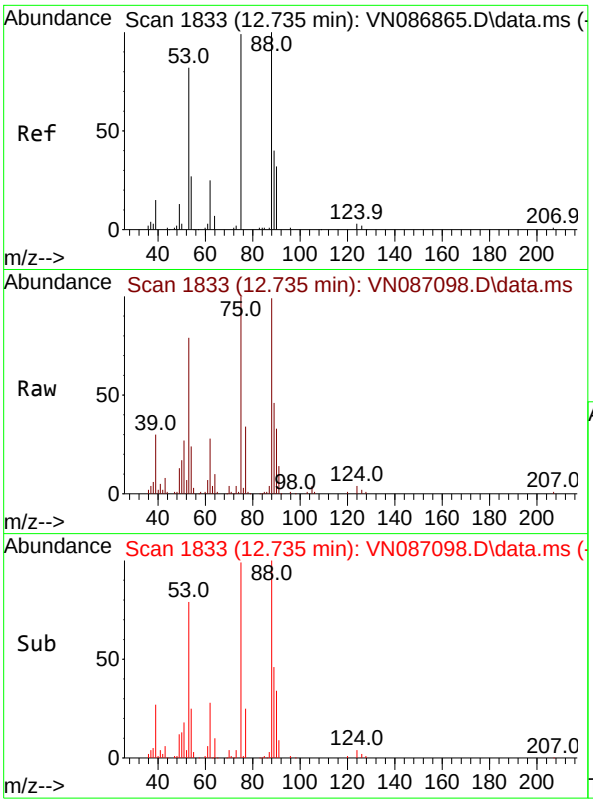


#80
1,3,5-Trimethylbenzene
Concen: 48.716 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:105 Resp: 452283

Ion	Ratio	Lower	Upper
105	100		
120	50.9	24.9	74.6

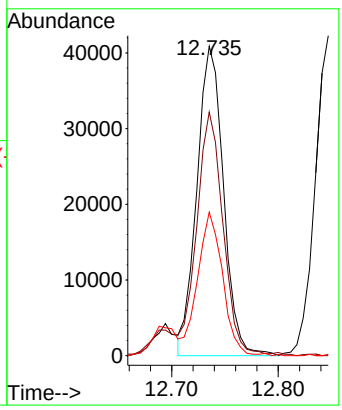




#81
trans-1,4-Dichloro-2-butene
Concen: 44.581 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 75 Resp: 7105

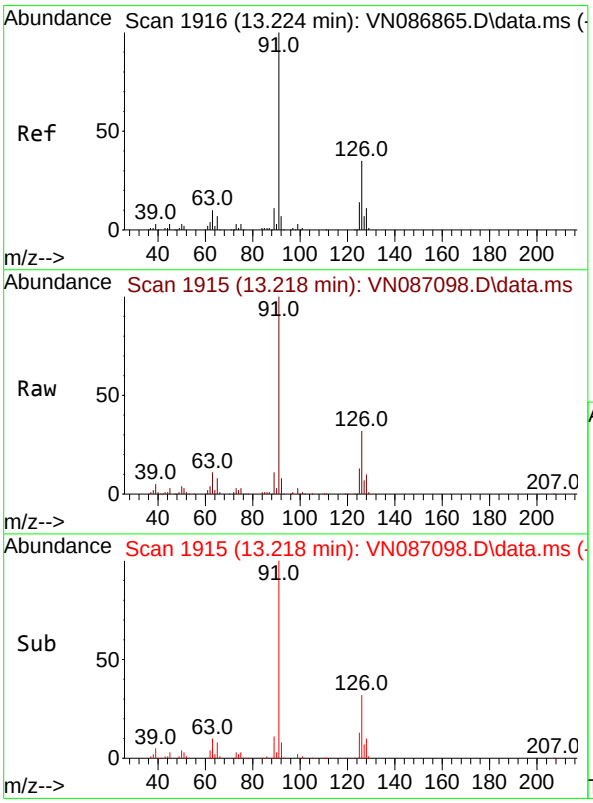
Ion	Ratio	Lower	Upper
75	100		
53	76.1	66.6	99.8
89	44.0	36.7	55.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

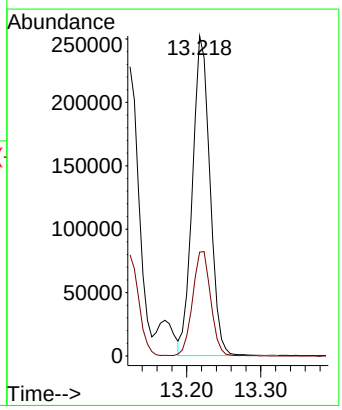
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

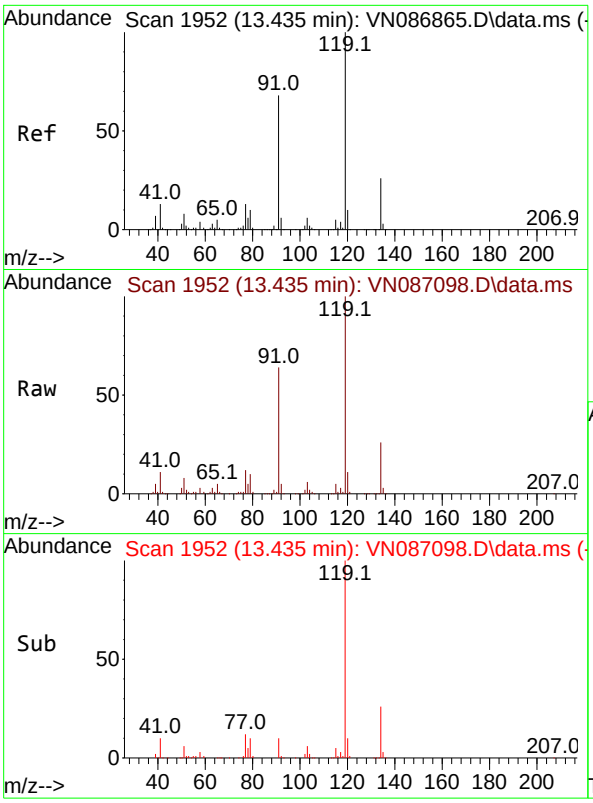


#82
4-Chlorotoluene
Concen: 49.727 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 91 Resp: 412348

Ion	Ratio	Lower	Upper
91	100		
126	34.1	16.7	50.1

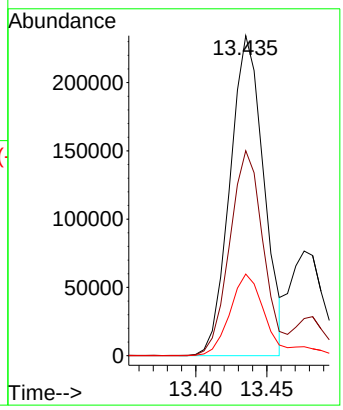




#83
tert-Butylbenzene
Concen: 45.565 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:119 Resp: 38722

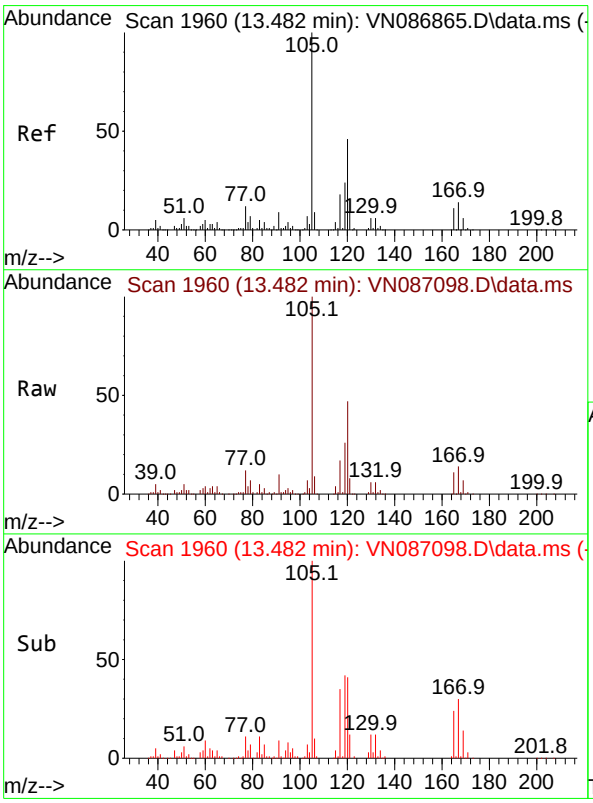
Ion	Ratio	Lower	Upper
119	100		
91	64.0	32.1	96.5
134	27.7	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

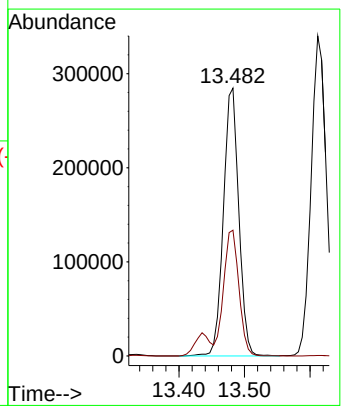
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

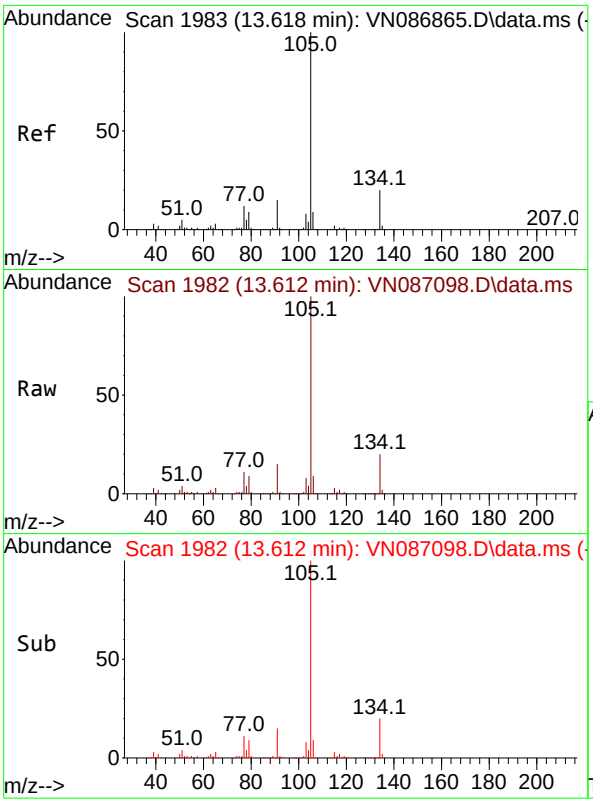


#84
1,2,4-Trimethylbenzene
Concen: 49.739 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:105 Resp: 463050

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.2	69.6





#85
sec-Butylbenzene
Concen: 44.660 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

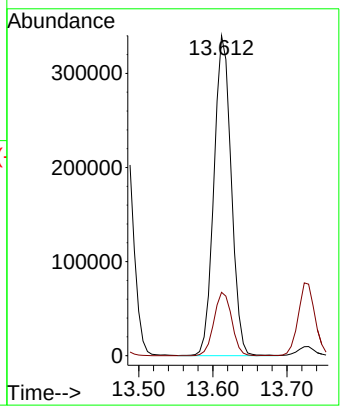
Tgt Ion:105 Resp: 55116

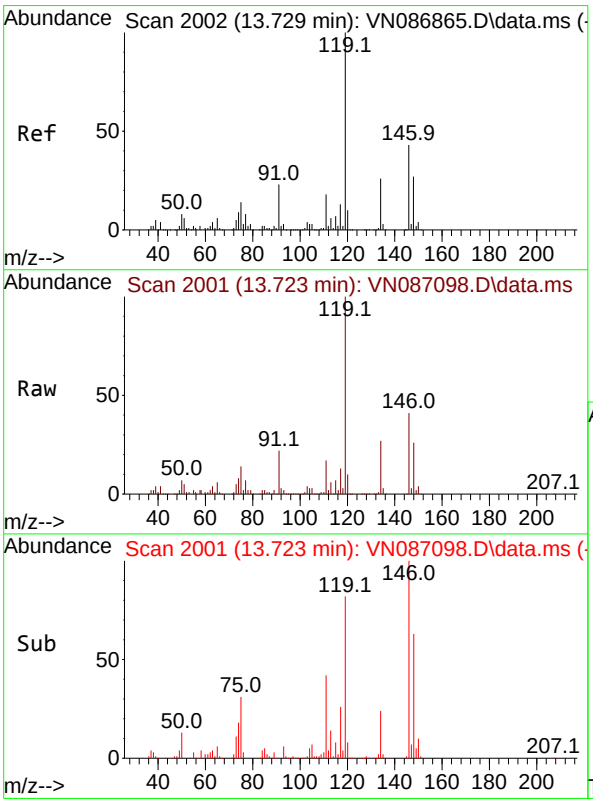
Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.0	30.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

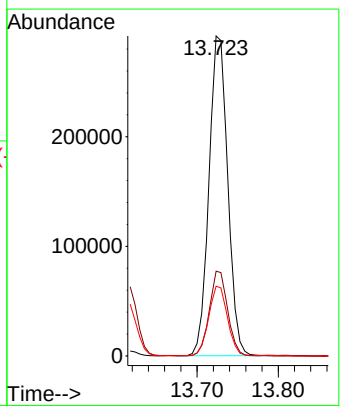


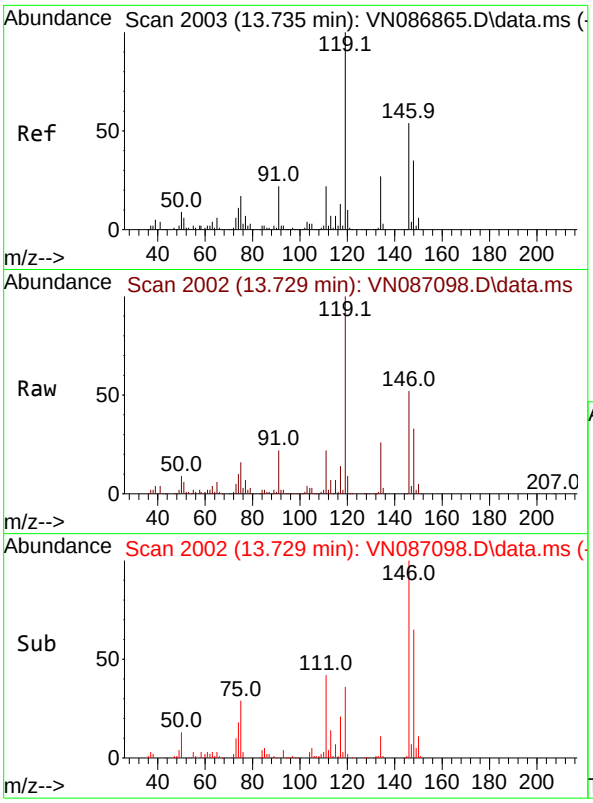


#86
p-Isopropyltoluene
Concen: 45.914 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:119 Resp: 468408

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.5	40.4
91	21.7	11.5	34.4

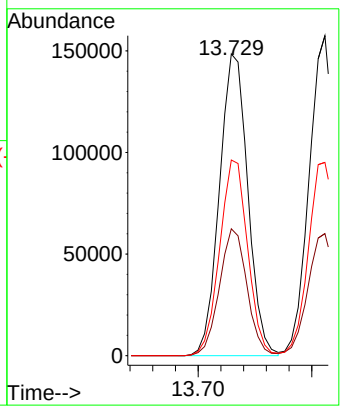




#87
1,3-Dichlorobenzene
Concen: 50.814 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:146 Resp: 25782

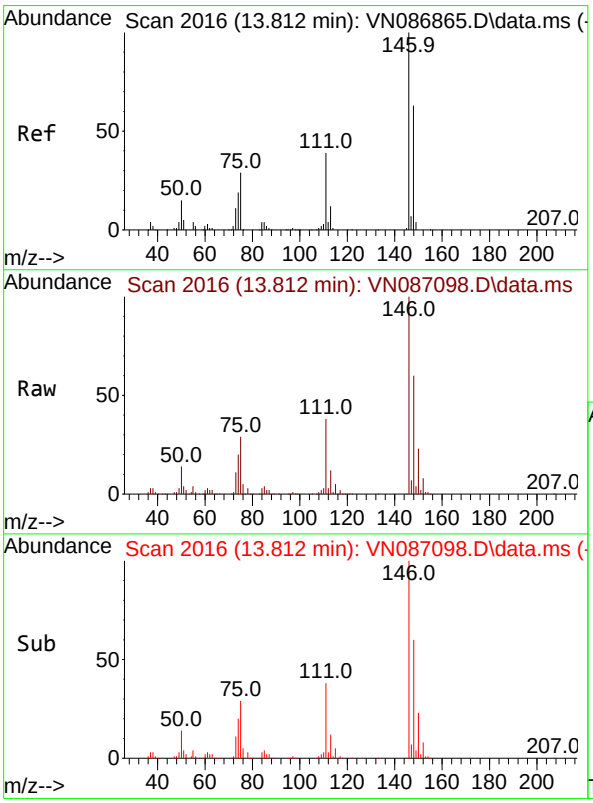
Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.9	62.8
148	64.1	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

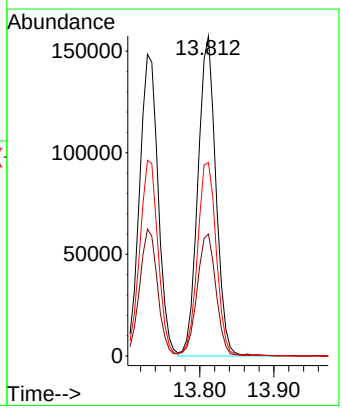
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

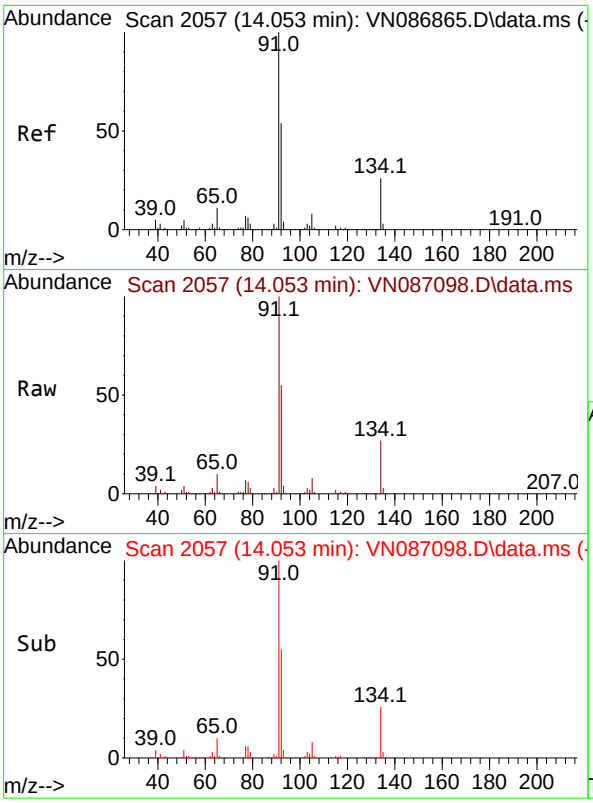


#88
1,4-Dichlorobenzene
Concen: 51.268 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:146 Resp: 265204

Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.9	59.7
148	63.2	31.8	95.4

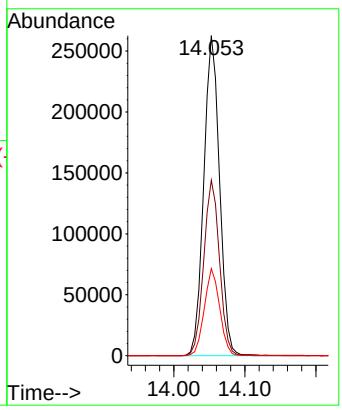




#89
n-Butylbenzene
Concen: 41.149 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 91 Resp: 40662

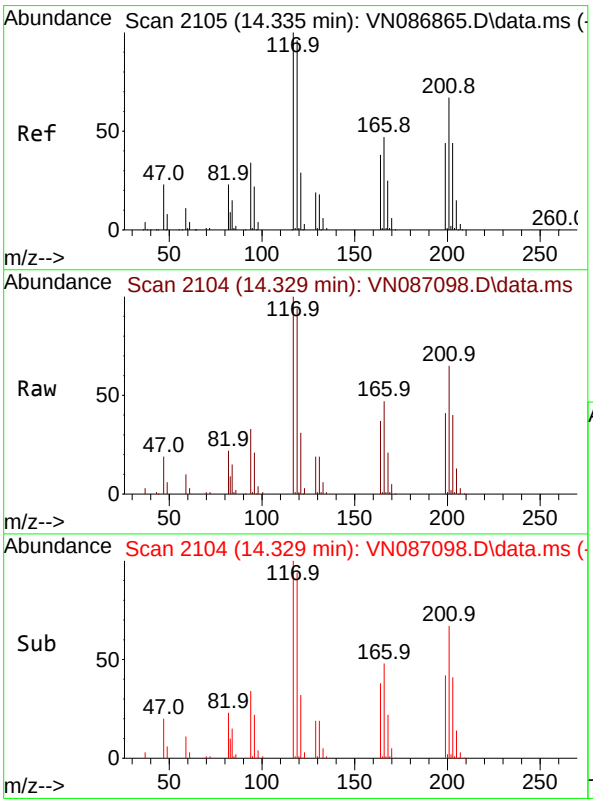
Ion	Ratio	Lower	Upper
91	100		
92	54.8	27.5	82.4
134	26.5	13.0	39.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

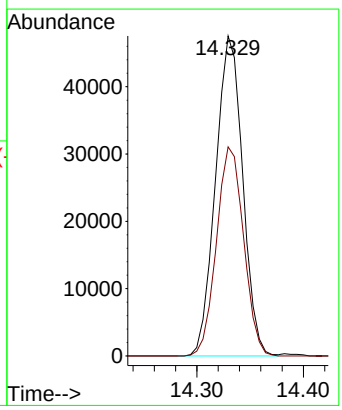
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

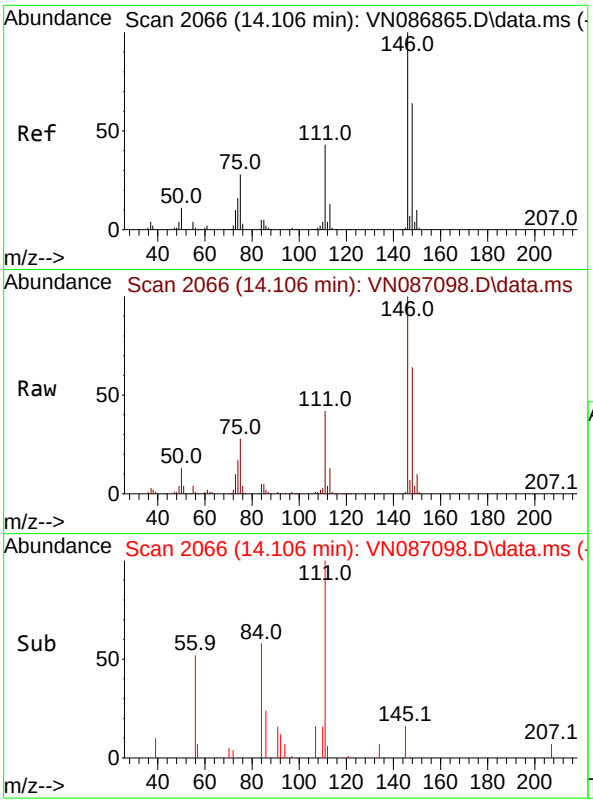


#90
Hexachloroethane
Concen: 48.590 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:117 Resp: 84025

Ion	Ratio	Lower	Upper
117	100		
201	65.4	33.2	99.6

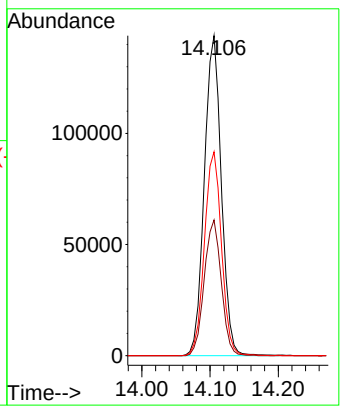




#91
1,2-Dichlorobenzene
Concen: 51.301 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:146 Resp: 25007

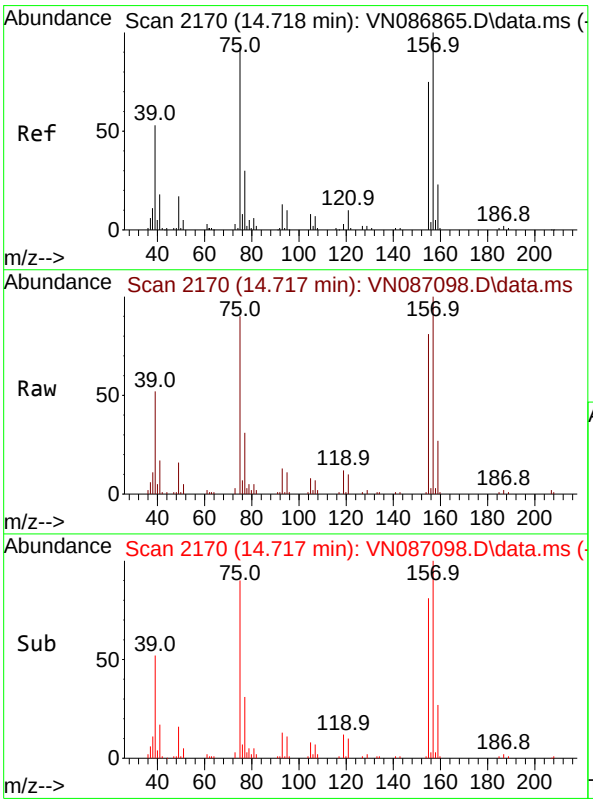
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.6	64.6
148	63.9	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

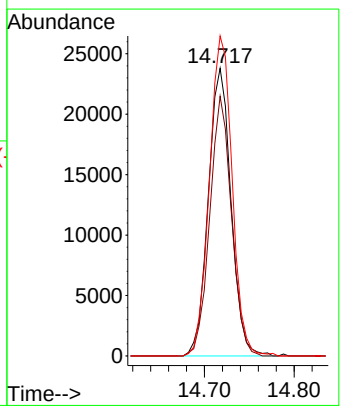
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

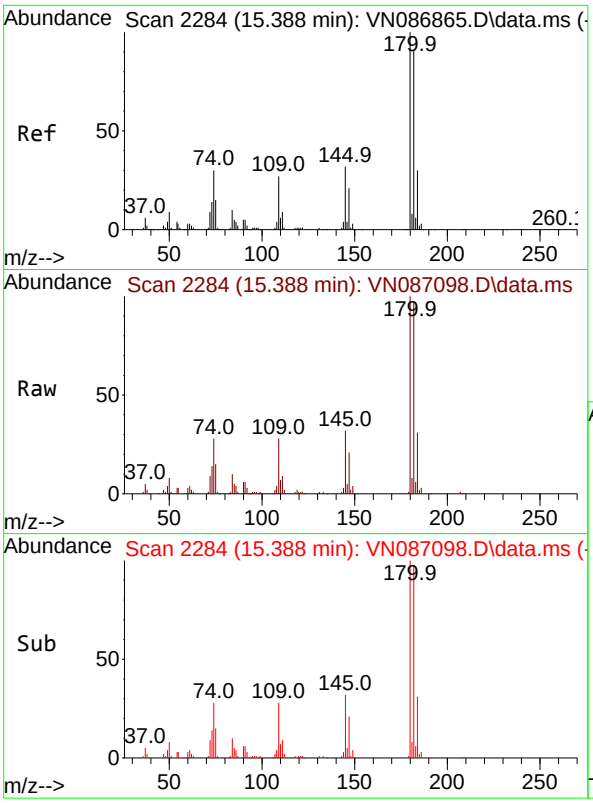


#92
1,2-Dibromo-3-Chloropropane
Concen: 45.944 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 75 Resp: 41858

Ion	Ratio	Lower	Upper
75	100		
155	86.2	41.1	123.4
157	111.4	52.7	158.1

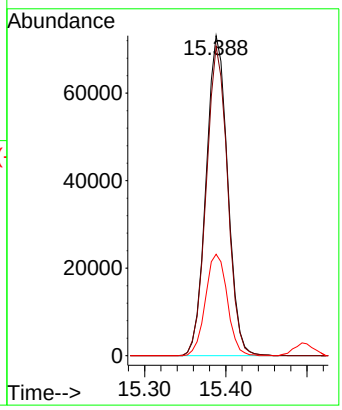




#93
1,2,4-Trichlorobenzene
Concen: 43.387 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:180 Resp: 13505

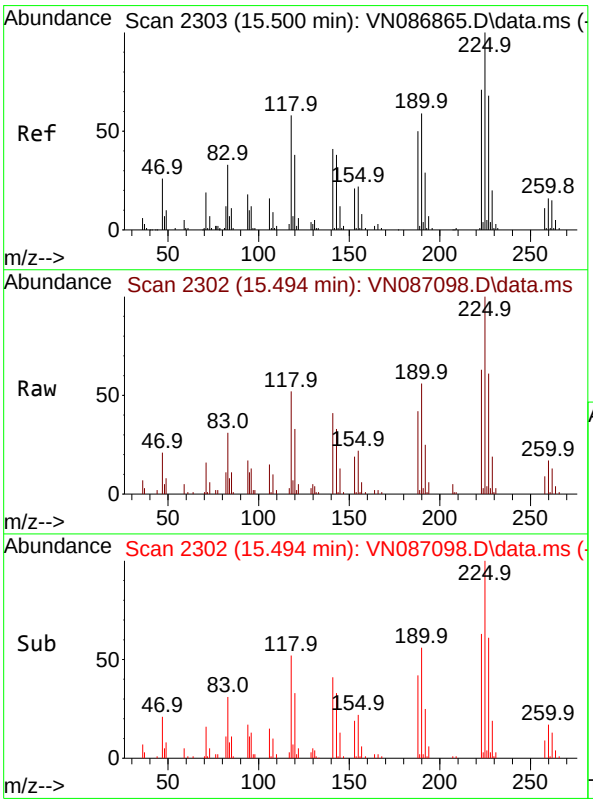
Ion	Ratio	Lower	Upper
180	100		
182	95.6	46.9	140.7
145	32.0	16.0	47.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

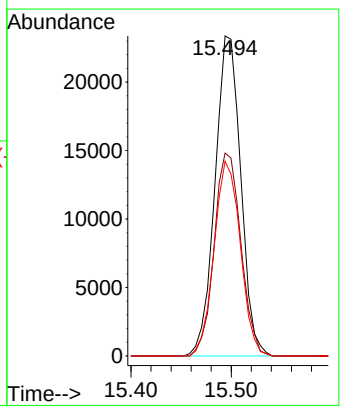
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

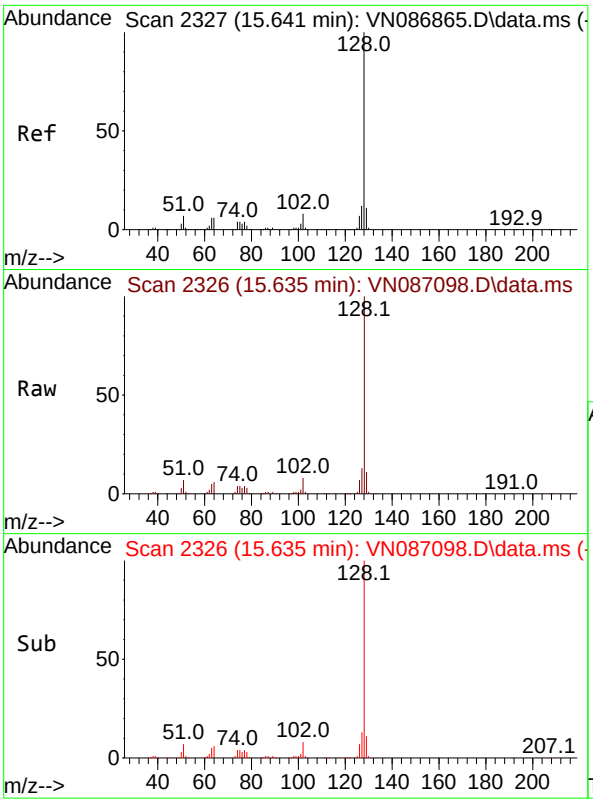


#94
Hexachlorobutadiene
Concen: 35.974 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:225 Resp: 41719

Ion	Ratio	Lower	Upper
225	100		
223	65.6	33.5	100.4
227	62.0	31.1	93.5

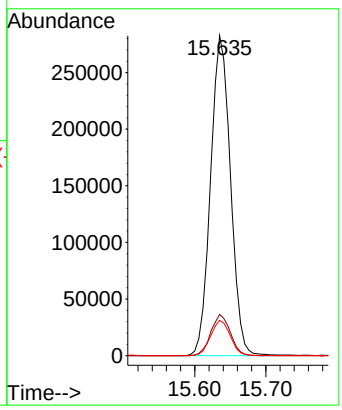




#95
Naphthalene
Concen: 47.504 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:128 Resp: 55039

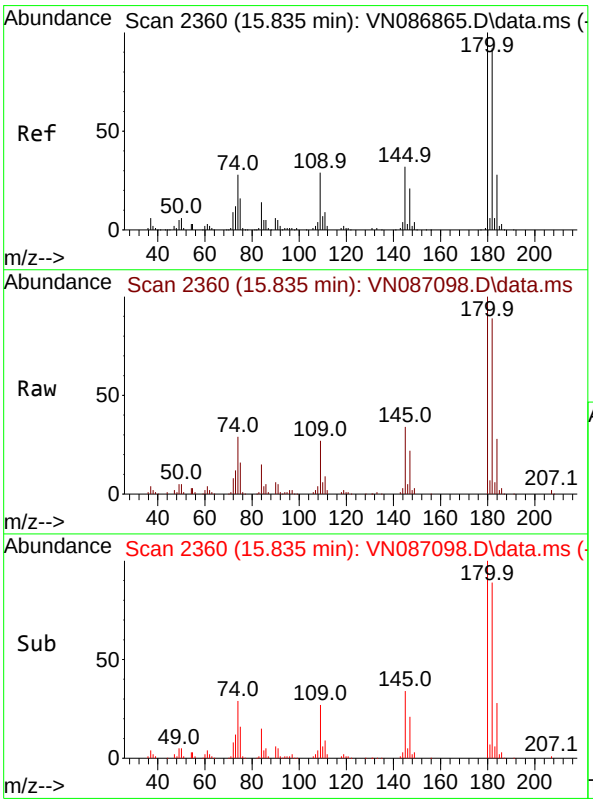
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.9	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

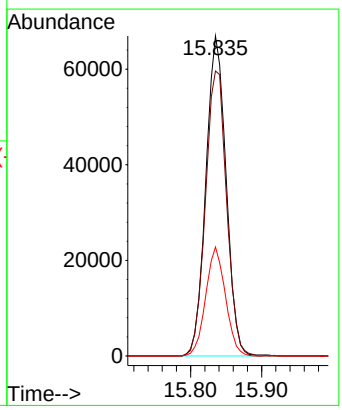
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 42.701 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:180 Resp: 132061

Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.0	141.0
145	33.3	16.6	49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	91	0.00
2	T	Dichlorodifluoromethane	0.499	0.532	-6.6	97	0.00
3	P	Chloromethane	0.644	0.586	9.0	89	0.00
4	C	Vinyl Chloride	0.664	0.742	-11.7#	106	0.00
5	T	Bromomethane	0.372	0.385	-3.5	98	0.00
6	T	Chloroethane	0.429	0.473	-10.3	106	0.00
7	T	Trichlorofluoromethane	0.868	0.960	-10.6	105	0.00
8	T	Diethyl Ether	0.378	0.404	-6.9	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.545	0.597	-9.5	105	0.00
10	T	Methyl Iodide	0.707	0.478	32.4#	64	0.00
11	T	Tert butyl alcohol	0.182	0.164	9.9	85	-0.01
12	CM	1,1-Dichloroethene	0.557	0.608	-9.2#	104	0.01
13	T	Acrolein	0.057	0.080	-40.4#	162#	0.00
14	T	Allyl chloride	0.923	0.866	6.2	91	0.00
15	T	Acrylonitrile	0.425	0.424	0.2	95	0.00
16	T	Acetone	0.355	0.325	8.5	92	0.00
17	T	Carbon Disulfide	1.539	1.739	-13.0	111	0.01
18	T	Methyl Acetate	1.035	1.067	-3.1	99	0.00
19	T	Methyl tert-butyl Ether	2.015	2.066	-2.5	97	0.00
20	T	Methylene Chloride	0.665	0.685	-3.0	103	0.00
21	T	trans-1,2-Dichloroethene	0.619	0.648	-4.7	104	0.00
22	T	Diisopropyl ether	1.945	1.918	1.4	94	0.00
23	T	Vinyl Acetate	1.644	1.609	2.1	92	0.00
24	P	1,1-Dichloroethane	1.120	1.175	-4.9	101	0.00
25	T	2-Butanone	0.577	0.534	7.5	88	0.00
26	T	2,2-Dichloropropane	0.871	0.831	4.6	84	0.00
27	T	cis-1,2-Dichloroethene	0.740	0.782	-5.7	102	0.00
28	T	Bromochloromethane	0.550	0.510	7.3	100	0.00
29	T	Tetrahydrofuran	0.376	0.354	5.9	90	0.00
30	C	Chloroform	1.118	1.163	-4.0#	100	0.00
31	T	Cyclohexane	1.086	1.032	5.0	94	0.00
32	T	1,1,1-Trichloroethane	0.951	0.980	-3.0	100	0.00
33	S	1,2-Dichloroethane-d4	0.669	0.687	-2.7	125	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
35	S	Dibromofluoromethane	0.296	0.331	-11.8	137	0.00
36	T	1,1-Dichloropropene	0.442	0.474	-7.2	103	0.00
37	T	Ethyl Acetate	0.562	0.545	3.0	92	0.00
38	T	Carbon Tetrachloride	0.433	0.464	-7.2	103	0.00
39	T	Methylcyclohexane	0.605	0.542	10.4	86	0.00
40	TM	Benzene	1.444	1.508	-4.4	102	0.00
41	T	Methacrylonitrile	0.316	0.290	8.2	87	0.00
42	TM	1,2-Dichloroethane	0.438	0.451	-3.0	100	0.00
43	T	Isopropyl Acetate	0.902	0.839	7.0	89	0.00
44	TM	Trichloroethene	0.342	0.363	-6.1	101	0.00
45	C	1,2-Dichloropropane	0.351	0.365	-4.0#	100	0.00
46	T	Dibromomethane	0.233	0.252	-8.2	103	0.00
47	T	Bromodichloromethane	0.480	0.499	-4.0	99	0.00
48	T	Methyl methacrylate	0.415	0.388	6.5	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.008	0.008	0.0	88	0.00
50	S	Toluene-d8	1.173	1.212	-3.3	128	0.00
51	T	4-Methyl-2-Pentanone	0.543	0.534	1.7	90	0.00
52	CM	Toluene	0.882	0.940	-6.6#	102	0.00
53	T	t-1,3-Dichloropropene	0.537	0.552	-2.8	96	0.00
54	T	cis-1,3-Dichloropropene	0.574	0.600	-4.5	99	0.00
55	T	1,1,2-Trichloroethane	0.340	0.357	-5.0	101	0.00
56	T	Ethyl methacrylate	0.541	0.583	-7.8	95	0.00
57	T	1,3-Dichloropropane	0.589	0.616	-4.6	100	0.00
58	T	2-Chloroethyl Vinyl ether	0.323	0.304	5.9	101	0.00
59	T	2-Hexanone	0.350	0.358	-2.3	88	0.00
60	T	Dibromochloromethane	0.354	0.390	-10.2	104	0.00
61	T	1,2-Dibromoethane	0.348	0.364	-4.6	100	0.00
62	S	4-Bromofluorobenzene	0.436	0.455	-4.4	127	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
64	T	Tetrachloroethene	0.316	0.324	-2.5	101	0.00
65	PM	Chlorobenzene	1.103	1.153	-4.5	103	0.00
66	T	1,1,1,2-Tetrachloroethane	0.354	0.374	-5.6	101	0.00
67	C	Ethyl Benzene	1.899	1.939	-2.1#	99	0.00
68	T	m/p-Xylenes	0.727	0.770	-5.9	100	0.00
69	T	o-Xylene	0.696	0.743	-6.8	101	0.00
70	T	Styrene	1.192	1.271	-6.6	100	0.00
71	P	Bromoform	0.263	0.294	-11.8	101	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
73	T	Isopropylbenzene	3.643	3.579	1.8	96	0.00
74	T	N-amyl acetate	1.273	1.064	16.4	77	0.00
75	P	1,1,2,2-Tetrachloroethane	1.234	1.250	-1.3	98	0.00
76	T	1,2,3-Trichloropropane	1.189	1.040	12.5	82	0.00
77	T	Bromobenzene	0.835	0.879	-5.3	103	0.00
78	T	n-propylbenzene	4.427	4.214	4.8	92	0.00
79	T	2-Chlorotoluene	2.655	2.548	4.0	94	0.00
80	T	1,3,5-Trimethylbenzene	3.007	2.930	2.6	93	0.00
81	T	trans-1,4-Dichloro-2-butene	0.516	0.460	10.9	89	0.00
82	T	4-Chlorotoluene	2.686	2.671	0.6	97	0.00
83	T	tert-Butylbenzene	2.753	2.509	8.9	88	0.00
84	T	1,2,4-Trimethylbenzene	3.016	3.000	0.5	95	0.00
85	T	sec-Butylbenzene	3.998	3.571	10.7	86	0.00
86	T	p-Isopropyltoluene	3.305	3.035	8.2	88	0.00
87	T	1,3-Dichlorobenzene	1.644	1.670	-1.6	99	0.00
88	T	1,4-Dichlorobenzene	1.676	1.718	-2.5	101	0.00
89	T	n-Butylbenzene	3.201	2.634	17.7	79	0.00
90	T	Hexachloroethane	0.560	0.544	2.9	93	0.00
91	T	1,2-Dichlorobenzene	1.579	1.620	-2.6	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.295	0.271	8.1	92	0.00
93	T	1,2,4-Trichlorobenzene	1.008	0.875	13.2	83	0.00
94	T	Hexachlorobutadiene	0.376	0.270	28.2#	69	0.00
95	T	Naphthalene	3.753	3.566	5.0	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	0.856	14.6	83	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	91	0.00
2	T	Dichlorodifluoromethane	50.000	53.315	-6.6	97	0.00
3	P	Chloromethane	50.000	45.495	9.0	89	0.00
4	C	Vinyl Chloride	50.000	55.855	-11.7#	106	0.00
5	T	Bromomethane	50.000	51.755	-3.5	98	0.00
6	T	Chloroethane	50.000	55.168	-10.3	106	0.00
7	T	Trichlorofluoromethane	50.000	55.313	-10.6	105	0.00
8	T	Diethyl Ether	50.000	53.447	-6.9	102	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	54.772	-9.5	105	0.00
10	T	Methyl Iodide	50.000	33.845	32.3#	64	0.00
11	T	Tert butyl alcohol	250.000	226.134	9.5	85	-0.01
12	CM	1,1-Dichloroethene	50.000	54.623	-9.2#	104	0.01
13	T	Acrolein	250.000	349.879	-40.0#	162	0.00
14	T	Allyl chloride	50.000	46.942	6.1	91	0.00
15	T	Acrylonitrile	250.000	249.606	0.2	95	0.00
16	T	Acetone	250.000	228.541	8.6	92	0.00
17	T	Carbon Disulfide	50.000	56.468	-12.9	111	0.01
18	T	Methyl Acetate	50.000	51.551	-3.1	99	0.00
19	T	Methyl tert-butyl Ether	50.000	51.259	-2.5	97	0.00
20	T	Methylene Chloride	50.000	51.511	-3.0	103	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.348	-4.7	104	0.00
22	T	Diisopropyl ether	50.000	49.286	1.4	94	0.00
23	T	Vinyl Acetate	250.000	244.793	2.1	92	0.00
24	P	1,1-Dichloroethane	50.000	52.469	-4.9	101	0.00
25	T	2-Butanone	250.000	231.377	7.4	88	0.00
26	T	2,2-Dichloropropane	50.000	47.682	4.6	84	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.800	-5.6	102	0.00
28	T	Bromochloromethane	50.000	46.356	7.3	100	0.00
29	T	Tetrahydrofuran	250.000	235.230	5.9	90	0.00
30	C	Chloroform	50.000	51.995	-4.0#	100	0.00
31	T	Cyclohexane	50.000	47.532	4.9	94	0.00
32	T	1,1,1-Trichloroethane	50.000	51.545	-3.1	100	0.00
33	S	1,2-Dichloroethane-d4	50.000	51.308	-2.6	125	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	91	0.00
35	S	Dibromofluoromethane	50.000	55.912	-11.8	137	0.00
36	T	1,1-Dichloropropene	50.000	53.726	-7.5	103	0.00
37	T	Ethyl Acetate	50.000	48.515	3.0	92	0.00
38	T	Carbon Tetrachloride	50.000	53.568	-7.1	103	0.00
39	T	Methylcyclohexane	50.000	44.790	10.4	86	0.00
40	TM	Benzene	50.000	52.225	-4.5	102	0.00
41	T	Methacrylonitrile	50.000	45.981	8.0	87	0.00
42	TM	1,2-Dichloroethane	50.000	51.533	-3.1	100	0.00
43	T	Isopropyl Acetate	50.000	46.481	7.0	89	0.00
44	TM	Trichloroethene	50.000	52.982	-6.0	101	0.00
45	C	1,2-Dichloropropane	50.000	51.954	-3.9#	100	0.00
46	T	Dibromomethane	50.000	53.963	-7.9	103	0.00
47	T	Bromodichloromethane	50.000	51.947	-3.9	99	0.00
48	T	Methyl methacrylate	50.000	46.733	6.5	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	996.635	0.3	88	0.00
50	S	Toluene-d8	50.000	51.677	-3.4	128	0.00
51	T	4-Methyl-2-Pentanone	250.000	245.922	1.6	90	0.00
52	CM	Toluene	50.000	53.238	-6.5#	102	0.00
53	T	t-1,3-Dichloropropene	50.000	51.432	-2.9	96	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.274	-4.5	99	0.00
55	T	1,1,2-Trichloroethane	50.000	52.632	-5.3	101	0.00
56	T	Ethyl methacrylate	50.000	53.942	-7.9	95	0.00
57	T	1,3-Dichloropropane	50.000	52.304	-4.6	100	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	235.679	5.7	101	0.00
59	T	2-Hexanone	250.000	255.969	-2.4	88	0.00
60	T	Dibromochloromethane	50.000	55.092	-10.2	104	0.00
61	T	1,2-Dibromoethane	50.000	52.343	-4.7	100	0.00
62	S	4-Bromofluorobenzene	50.000	52.246	-4.5	127	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	91	0.00
64	T	Tetrachloroethene	50.000	51.129	-2.3	101	0.00
65	PM	Chlorobenzene	50.000	52.261	-4.5	103	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	52.707	-5.4	101	0.00
67	C	Ethyl Benzene	50.000	51.046	-2.1#	99	0.00
68	T	m/p-Xylenes	100.000	105.923	-5.9	100	0.00
69	T	o-Xylene	50.000	53.380	-6.8	101	0.00
70	T	Styrene	50.000	53.338	-6.7	100	0.00
71	P	Bromoform	50.000	55.877	-11.8	101	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	92	0.00
73	T	Isopropylbenzene	50.000	49.133	1.7	96	0.00
74	T	N-amyl acetate	50.000	41.777	16.4	77	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.650	-1.3	98	0.00
76	T	1,2,3-Trichloropropane	50.000	43.739	12.5	82	0.00
77	T	Bromobenzene	50.000	52.642	-5.3	103	0.00
78	T	n-propylbenzene	50.000	47.599	4.8	92	0.00
79	T	2-Chlorotoluene	50.000	47.985	4.0	94	0.00
80	T	1,3,5-Trimethylbenzene	50.000	48.716	2.6	93	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	44.581	10.8	89	0.00
82	T	4-Chlorotoluene	50.000	49.727	0.5	97	0.00
83	T	tert-Butylbenzene	50.000	45.565	8.9	88	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.739	0.5	95	0.00
85	T	sec-Butylbenzene	50.000	44.660	10.7	86	0.00
86	T	p-Isopropyltoluene	50.000	45.914	8.2	88	0.00
87	T	1,3-Dichlorobenzene	50.000	50.814	-1.6	99	0.00
88	T	1,4-Dichlorobenzene	50.000	51.268	-2.5	101	0.00
89	T	n-Butylbenzene	50.000	41.149	17.7	79	0.00
90	T	Hexachloroethane	50.000	48.590	2.8	93	0.00
91	T	1,2-Dichlorobenzene	50.000	51.301	-2.6	100	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	45.944	8.1	92	0.00
93	T	1,2,4-Trichlorobenzene	50.000	43.387	13.2	83	0.00
94	T	Hexachlorobutadiene	50.000	35.974	28.1#	69	0.00
95	T	Naphthalene	50.000	47.504	5.0	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	42.701	14.6	83	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date/Time: 06/19/2025 09:31

Lab File ID: VN087100.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.499	0.585		17.23	20
Chloromethane	0.644	0.634	0.1	-1.55	20
Vinyl Chloride	0.664	0.815		22.74	20
Bromomethane	0.372	0.402		8.06	20
Chloroethane	0.429	0.507		18.18	20
Trichlorofluoromethane	0.868	1.014		16.82	20
1,1,2-Trichlorotrifluoroethane	0.545	0.630		15.6	20
1,1-Dichloroethene	0.557	0.654		17.42	20
Acetone	0.355	0.363		2.25	20
Carbon Disulfide	1.539	1.886		22.55	20
Methyl tert-butyl Ether	2.015	2.213		9.83	20
Methyl Acetate	1.035	0.948		-8.41	20
Methylene Chloride	0.665	0.738		10.98	20
trans-1,2-Dichloroethene	0.619	0.703		13.57	20
1,1-Dichloroethane	1.120	1.266	0.1	13.04	20
Cyclohexane	1.086	1.122		3.32	20
2-Butanone	0.577	0.562		-2.6	20
Carbon Tetrachloride	0.433	0.512		18.25	20
cis-1,2-Dichloroethene	0.740	0.835		12.84	20
Bromochloromethane	0.550	0.517		-6	20
Chloroform	1.118	1.245		11.36	20
1,1,1-Trichloroethane	0.951	1.077		13.25	20
Methylcyclohexane	0.605	0.600		-0.83	20
Benzene	1.444	1.656		14.68	20
1,2-Dichloroethane	0.438	0.494		12.78	20
Trichloroethene	0.342	0.404		18.13	20
1,2-Dichloropropane	0.351	0.401		14.24	20
Bromodichloromethane	0.480	0.550		14.58	20
4-Methyl-2-Pentanone	0.543	0.579		6.63	20
Toluene	0.882	1.023		15.99	20
t-1,3-Dichloropropene	0.537	0.629		17.13	20
cis-1,3-Dichloropropene	0.574	0.666		16.03	20
1,1,2-Trichloroethane	0.340	0.388		14.12	20
2-Hexanone	0.350	0.383		9.43	20
Dibromochloromethane	0.354	0.422		19.21	20
1,2-Dibromoethane	0.348	0.397		14.08	20
Tetrachloroethene	0.316	0.356		12.66	20
Chlorobenzene	1.103	1.267	0.3	14.87	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date/Time: 06/19/2025 09:31

Lab File ID: VN087100.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.900	2.140		12.63	20
m/p-Xylenes	0.727	0.852		17.19	20
o-Xylene	0.696	0.807		15.95	20
Styrene	1.192	1.397		17.2	20
Bromoform	0.263	0.322	0.1	22.43	20
Isopropylbenzene	3.643	3.878		6.45	20
1,1,2,2-Tetrachloroethane	1.234	1.343	0.3	8.83	20
1,3-Dichlorobenzene	1.644	1.837		11.74	20
1,4-Dichlorobenzene	1.676	1.831		9.25	20
1,2-Dichlorobenzene	1.579	1.745		10.51	20
1,2-Dibromo-3-Chloropropane	0.295	0.295		0	20
1,2,4-Trichlorobenzene	1.008	0.951		-5.66	20
1,2,3-Trichlorobenzene	1.002	0.907		-9.48	20
1,2-Dichloroethane-d4	0.669	0.604		-9.72	20
Dibromofluoromethane	0.296	0.296		0	20
Toluene-d8	1.173	1.094		-6.74	20
4-Bromofluorobenzene	0.436	0.411		-5.73	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_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	157053	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	278046	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	245271	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126484	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	94849	45.107	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 90.220%			
35) Dibromofluoromethane	8.171	113	82354	49.979	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.960%			
50) Toluene-d8	10.565	98	304189	46.633	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.260%			
62) 4-Bromofluorobenzene	12.847	95	114266	47.149	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	91821	58.637	ug/l	99
3) Chloromethane	2.395	50	99602	49.257	ug/l	98
4) Vinyl Chloride	2.553	62	128030	61.379	ug/l	98
5) Bromomethane	2.995	94	63194	54.137	ug/l	96
6) Chloroethane	3.153	64	79682	59.139	ug/l	96
7) Trichlorofluoromethane	3.530	101	159307	58.455	ug/l	98
8) Diethyl Ether	3.983	74	66903	56.344	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.400	101	99010	57.825	ug/l	98
10) Methyl Iodide	4.606	142	79070	35.624	ug/l #	91
11) Tert butyl alcohol	5.536	59	132196	231.693	ug/l	99
12) 1,1-Dichloroethene	4.371	96	102722	58.764	ug/l	94
13) Acrolein	4.200	56	75576	418.463	ug/l	99
14) Allyl chloride	5.047	41	149234	51.477	ug/l	95
15) Acrylonitrile	5.736	53	351875	263.851	ug/l	100
16) Acetone	4.441	43	285191	255.751	ug/l	100
17) Carbon Disulfide	4.736	76	296271	61.273	ug/l	98
18) Methyl Acetate	5.047	43	148831	45.799	ug/l	97
19) Methyl tert-butyl Ether	5.818	73	347549	54.911	ug/l	98
20) Methylene Chloride	5.300	84	115852	55.493	ug/l	97
21) trans-1,2-Dichloroethene	5.806	96	110371	56.750	ug/l	96
22) Diisopropyl ether	6.683	45	321446	52.602	ug/l	95
23) Vinyl Acetate	6.618	43	1411385	273.362	ug/l	98
24) 1,1-Dichloroethane	6.583	63	198785	56.526	ug/l	99
25) 2-Butanone	7.488	43	441572	243.615	ug/l	97
26) 2,2-Dichloropropane	7.500	77	171090	62.543	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	131103	56.366	ug/l	99
28) Bromochloromethane	7.824	49	81165	46.941	ug/l	94
29) Tetrahydrofuran	7.847	42	289933	245.546	ug/l	95
30) Chloroform	7.971	83	195599	55.695	ug/l	100
31) Cyclohexane	8.265	56	176136	51.646	ug/l	96
32) 1,1,1-Trichloroethane	8.177	97	169121	56.618	ug/l	99
36) 1,1-Dichloropropene	8.377	75	145323	59.187	ug/l	99
37) Ethyl Acetate	7.565	43	165466	52.938	ug/l	98
38) Carbon Tetrachloride	8.371	117	142286	59.026	ug/l	99
39) Methylcyclohexane	9.606	83	166872	49.607	ug/l	97
40) Benzene	8.612	78	460485	57.353	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	89696	51.098	ug/l		93
42) 1,2-Dichloroethane	8.677	62	137283	56.372	ug/l		99
43) Isopropyl Acetate	8.694	43	255218	50.874	ug/l		96
44) Trichloroethene	9.353	130	112240	58.955	ug/l		99
45) 1,2-Dichloropropane	9.624	63	111438	57.050	ug/l		99
46) Dibromomethane	9.712	93	76751	59.155	ug/l		99
47) Bromodichloromethane	9.888	83	152931	57.289	ug/l		98
48) Methyl methacrylate	9.682	41	117229	50.770	ug/l		95
49) 1,4-Dioxane	9.700	88	43879	1044.593	ug/l	#	99
51) 4-Methyl-2-Pentanone	10.447	43	805255	266.633	ug/l		98
52) Toluene	10.629	92	284384	57.958	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	174988	58.623	ug/l		96
54) cis-1,3-Dichloropropene	10.312	75	185041	57.936	ug/l		98
55) 1,1,2-Trichloroethane	11.018	97	107940	57.171	ug/l		99
56) Ethyl methacrylate	10.876	69	176425	58.668	ug/l		94
57) 1,3-Dichloropropane	11.165	76	186250	56.867	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	511071	284.937	ug/l		99
59) 2-Hexanone	11.200	43	532387	273.673	ug/l		94
60) Dibromochloromethane	11.359	129	117206	59.583	ug/l		99
61) 1,2-Dibromoethane	11.470	107	110430	57.064	ug/l		99
64) Tetrachloroethene	11.106	164	87272	56.223	ug/l		96
65) Chlorobenzene	11.888	112	310675	57.431	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	101699	58.485	ug/l		99
67) Ethyl Benzene	11.965	91	524965	56.340	ug/l		99
68) m/p-Xylenes	12.070	106	417726	117.113	ug/l		98
69) o-Xylene	12.394	106	198006	57.962	ug/l		96
70) Styrene	12.412	104	342586	58.606	ug/l		99
71) Bromoform	12.576	173	78941	61.270	ug/l	#	99
73) Isopropylbenzene	12.694	105	490532	53.235	ug/l		100
74) N-amyl acetate	12.512	43	146899	45.622	ug/l	#	93
75) 1,1,2,2-Tetrachloroethane	12.935	83	169825	54.402	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	141322m	47.004	ug/l		
77) Bromobenzene	12.976	156	119991	56.782	ug/l		96
78) n-propylbenzene	13.035	91	586015	52.332	ug/l		98
79) 2-Chlorotoluene	13.123	91	352946	52.556	ug/l		98
80) 1,3,5-Trimethylbenzene	13.170	105	407528	53.568	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	65431	50.097	ug/l		98
82) 4-Chlorotoluene	13.217	91	364837	53.692	ug/l		99
83) tert-Butylbenzene	13.435	119	343353	49.305	ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	409813	53.720	ug/l		100
85) sec-Butylbenzene	13.611	105	492411	48.691	ug/l		99
86) p-Isopropyltoluene	13.729	119	414725	49.610	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	232408	55.899	ug/l		98
88) 1,4-Dichlorobenzene	13.811	146	231597	54.637	ug/l		100
89) n-Butylbenzene	14.053	91	365013	45.078	ug/l		99
90) Hexachloroethane	14.329	117	74155	52.332	ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	220753	55.265	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	37254	49.901	ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	120236	47.138	ug/l		100
94) Hexachlorobutadiene	15.500	225	33782	35.548	ug/l		99
95) Naphthalene	15.635	128	475311	50.063	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	114676	45.251	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

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

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

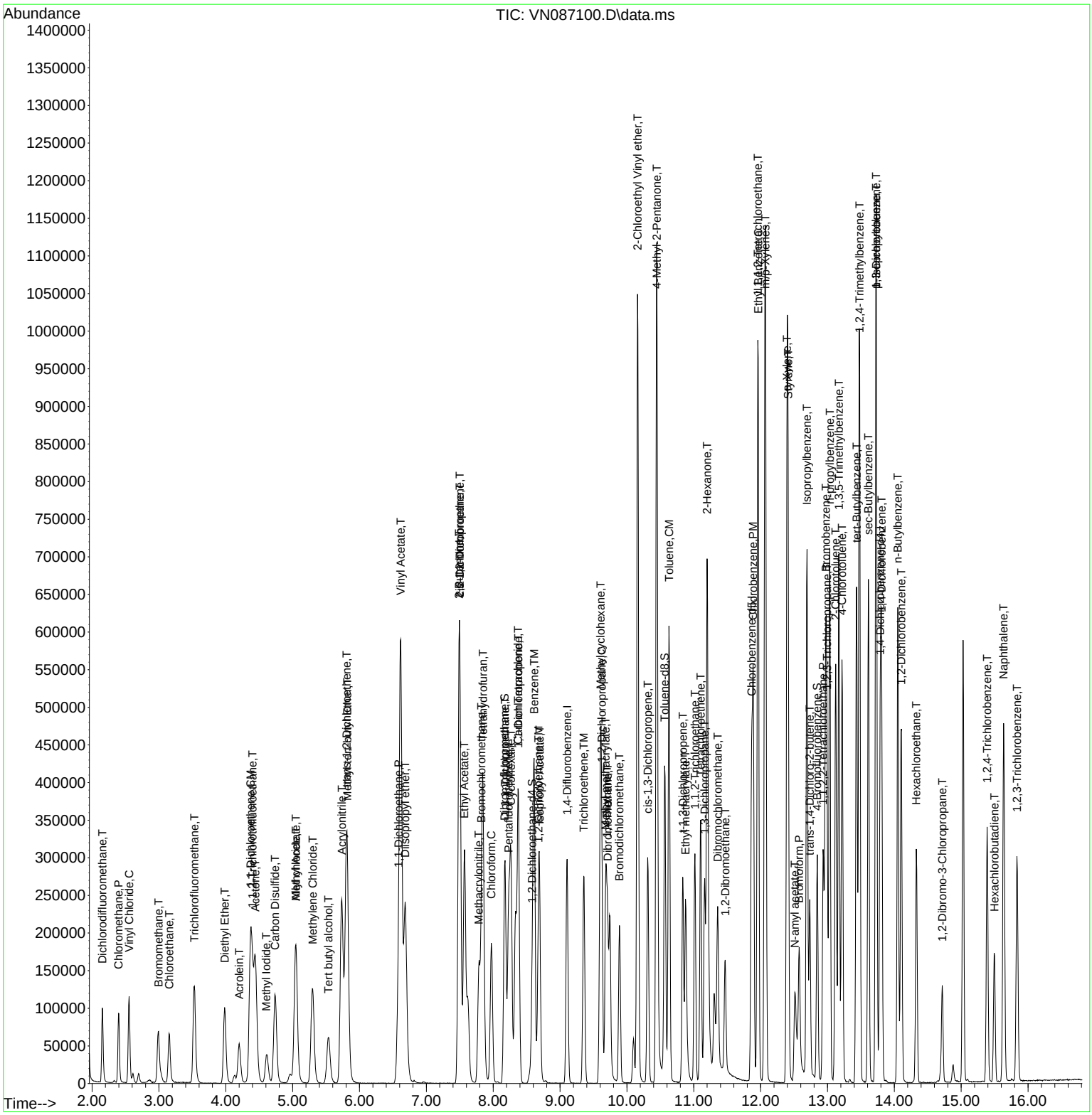
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

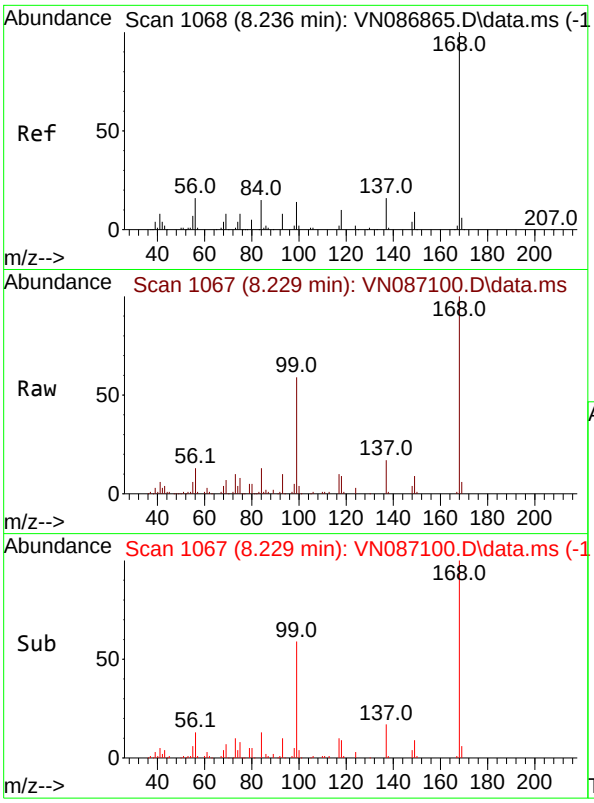
Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

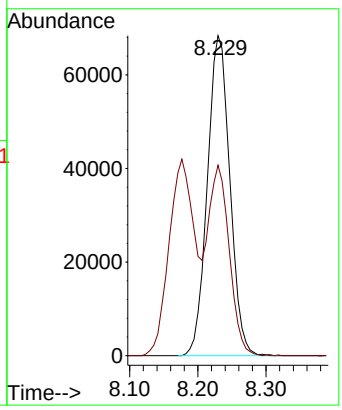




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:168 Resp: 15705

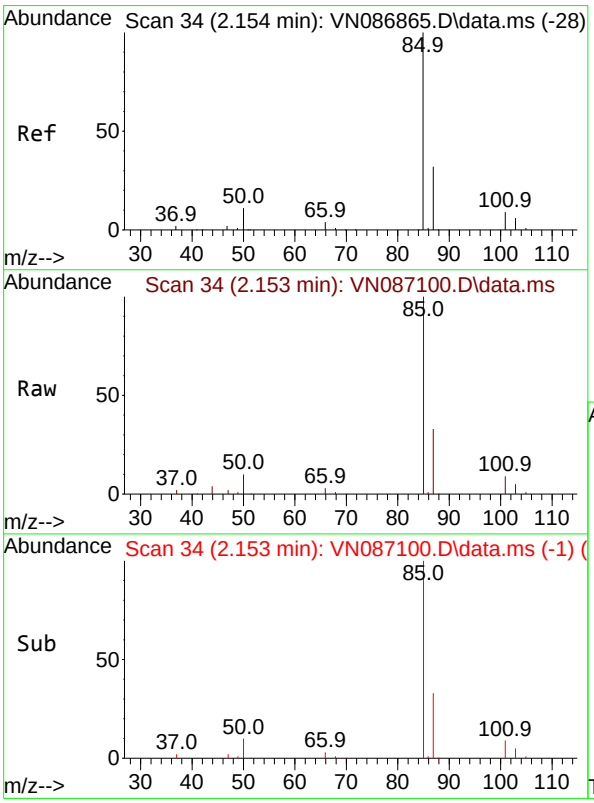
Ion	Ratio	Lower	Upper
168	100		
99	59.2	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

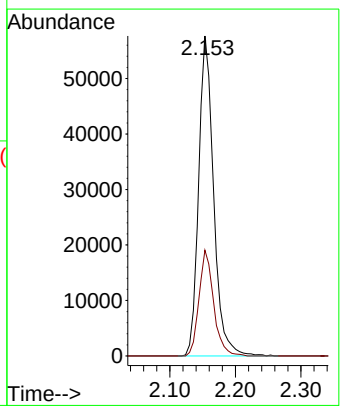
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

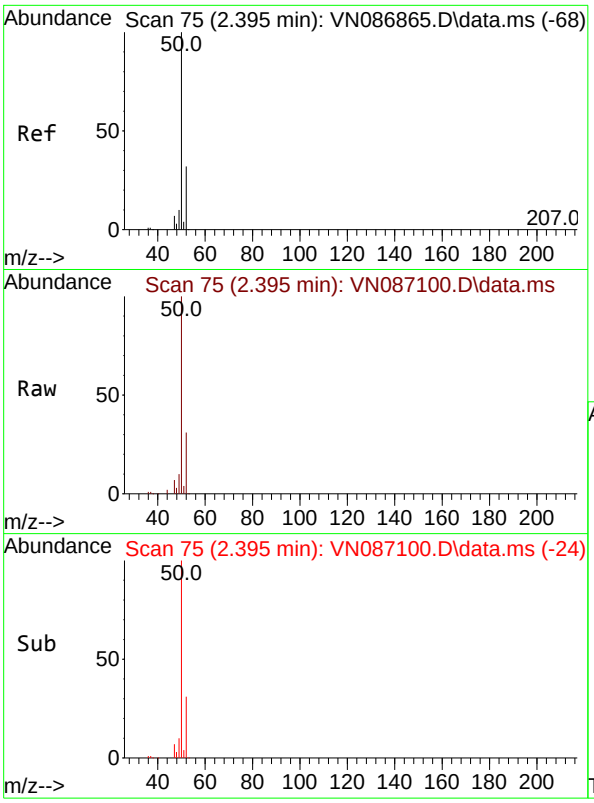


#2
Dichlorodifluoromethane
Concen: 58.637 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 85 Resp: 91821

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.2	48.6





#3
Chloromethane
Concen: 49.257 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

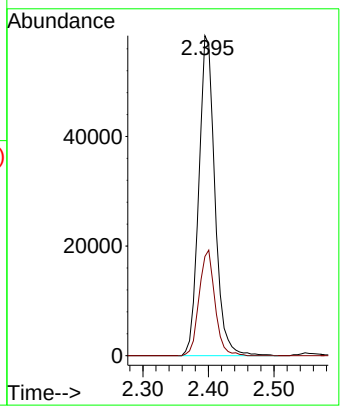
Tgt Ion: 50 Resp: 9960

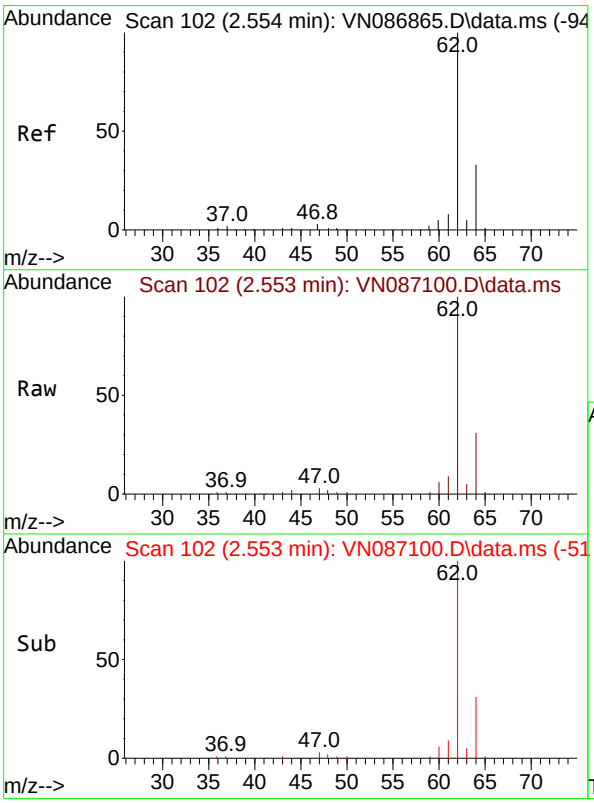
Ion	Ratio	Lower	Upper
50	100		
52	31.0	25.7	38.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

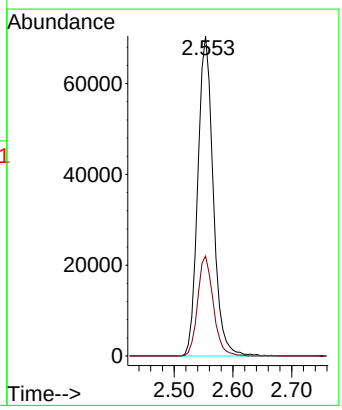


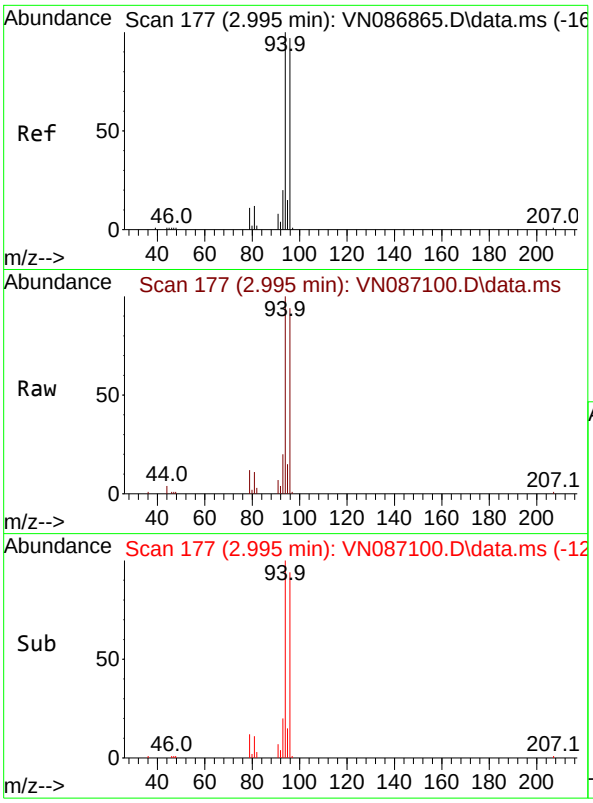


#4
Vinyl Chloride
Concen: 61.379 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 62 Resp: 128030

Ion	Ratio	Lower	Upper
62	100		
64	31.3	26.0	39.0

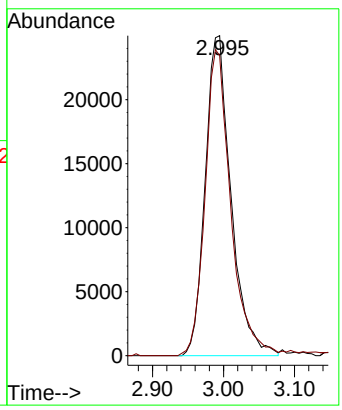




#5
Bromomethane
Concen: 54.137 ug/l
RT: 2.995 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 94 Resp: 6319

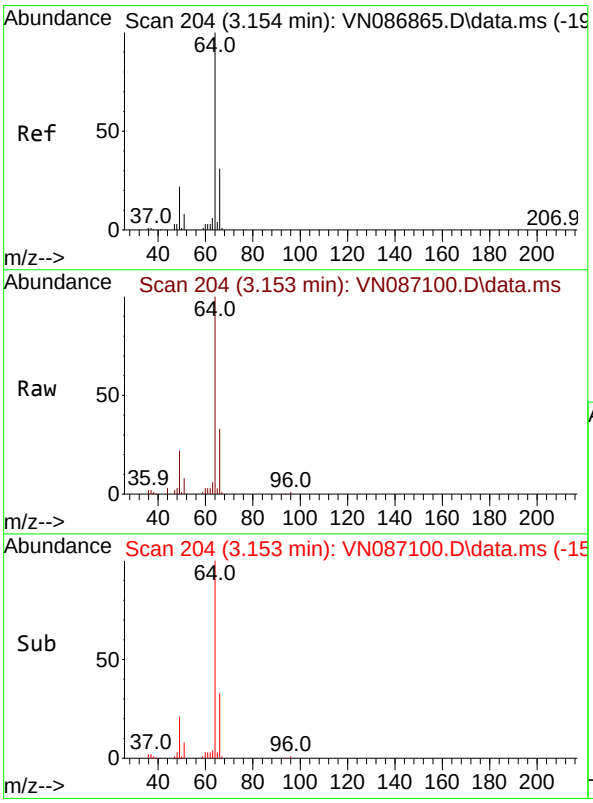
Ion	Ratio	Lower	Upper
94	100		
96	93.8	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

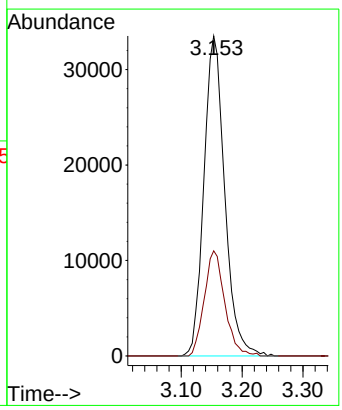
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

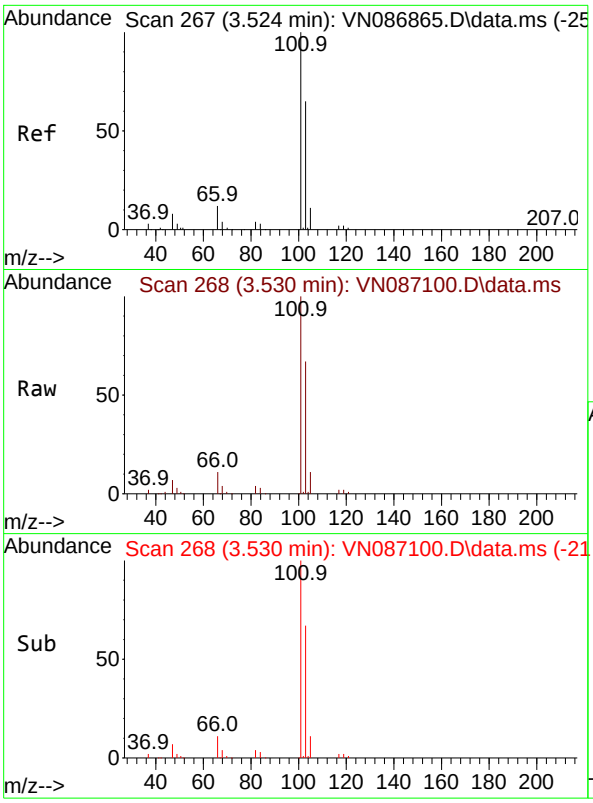


#6
Chloroethane
Concen: 59.139 ug/l
RT: 3.153 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 64 Resp: 79682

Ion	Ratio	Lower	Upper
64	100		
66	32.8	24.6	36.8





#7
Trichlorofluoromethane
Concen: 58.455 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

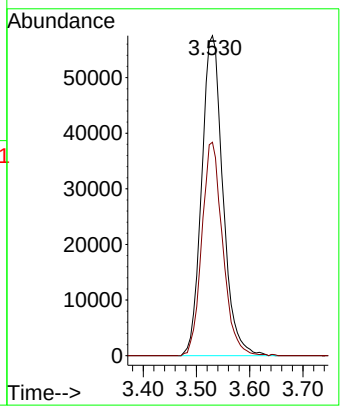
Tgt Ion:101 Resp: 15930

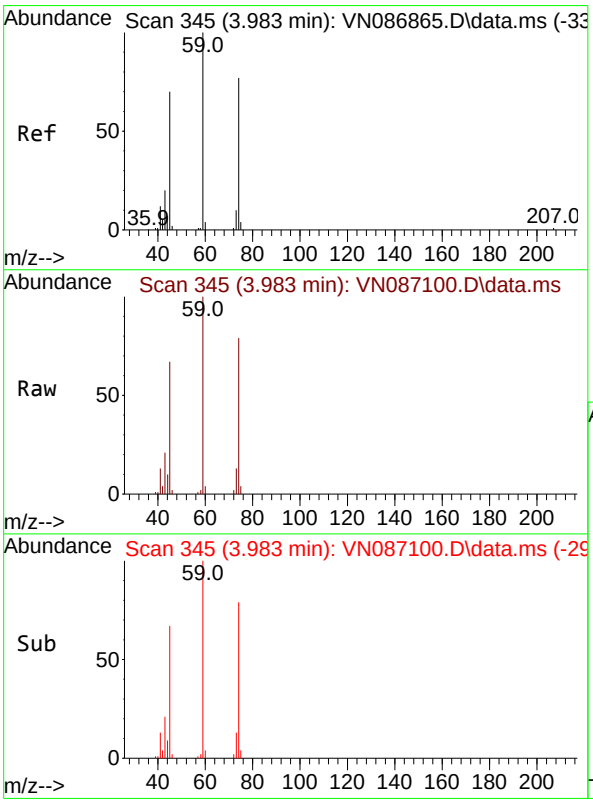
Ion	Ratio	Lower	Upper
101	100		
103	66.7	52.2	78.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

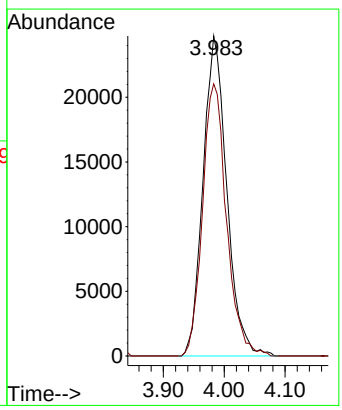


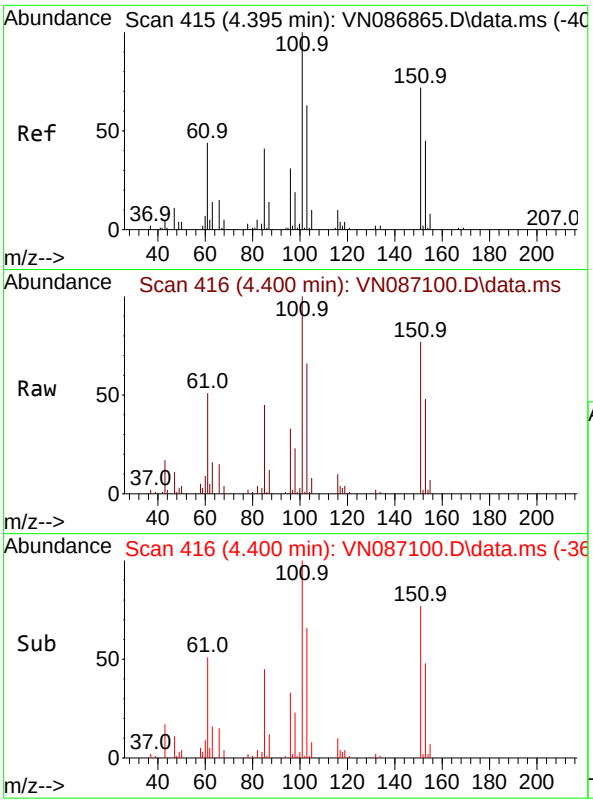


#8
Diethyl Ether
Concen: 56.344 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 74 Resp: 66903

Ion	Ratio	Lower	Upper
74	100		
45	86.0	45.5	136.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 57.825 ug/l
RT: 4.400 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

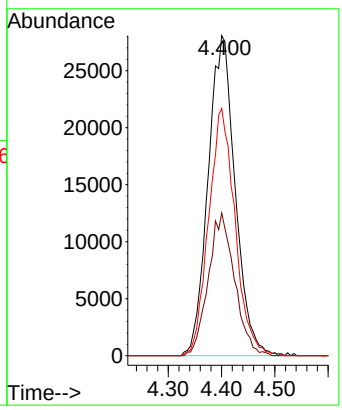
Tgt Ion:101 Resp: 9901

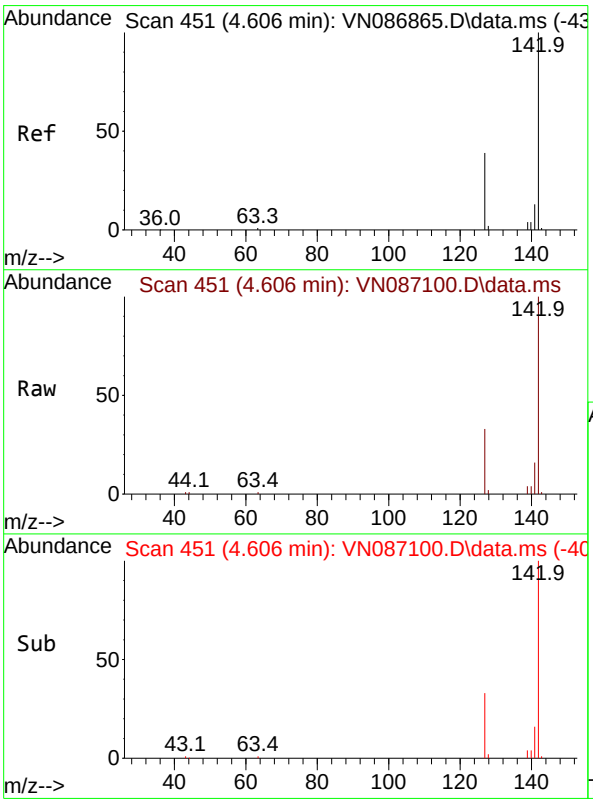
Ion	Ratio	Lower	Upper
101	100		
85	43.2	33.8	50.8
151	75.6	58.7	88.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

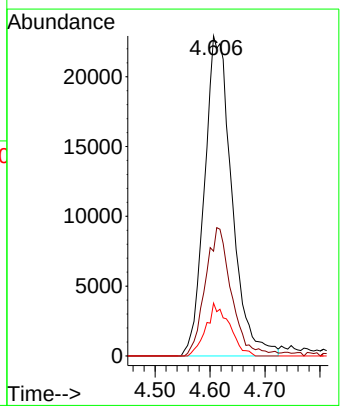


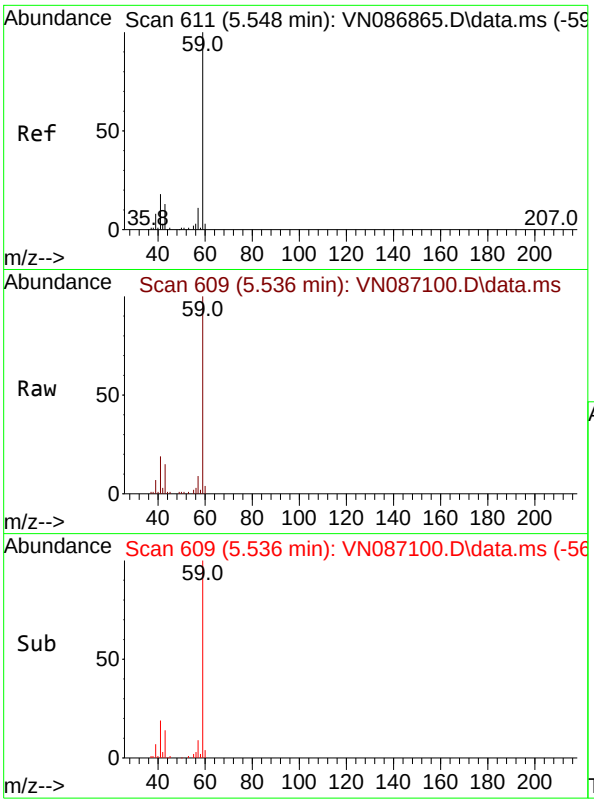


#10
Methyl Iodide
Concen: 35.624 ug/l
RT: 4.606 min Scan# 451
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:142 Resp: 79070

Ion	Ratio	Lower	Upper
142	100		
127	32.7	30.9	46.3
141	16.5	10.4	15.6#

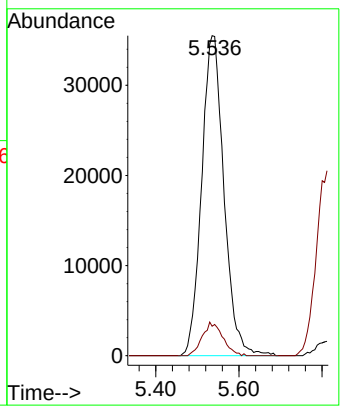




#11
Tert butyl alcohol
Concen: 231.693 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 59 Resp: 13219

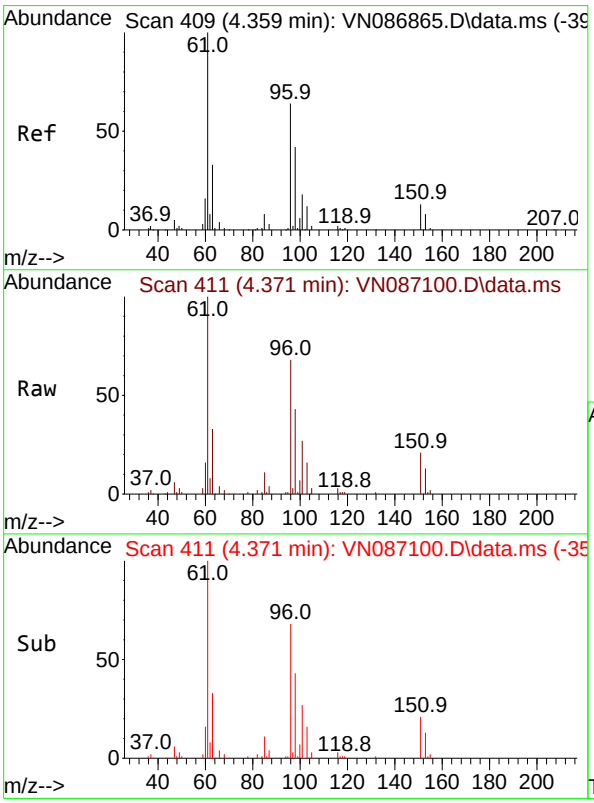
Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.1	12.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

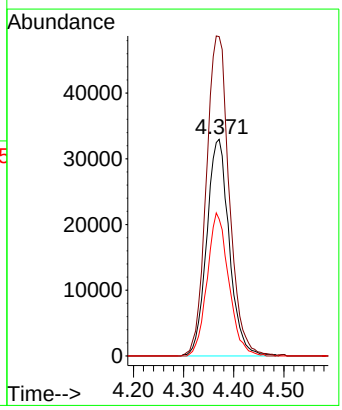
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

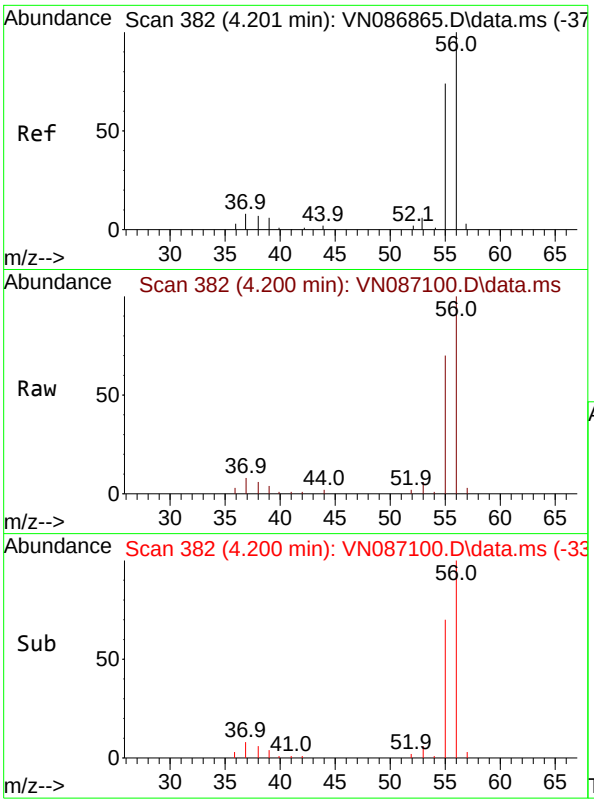


#12
1,1-Dichloroethene
Concen: 58.764 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 96 Resp: 102722

Ion	Ratio	Lower	Upper
96	100		
61	147.4	125.8	188.6
98	63.2	52.5	78.7

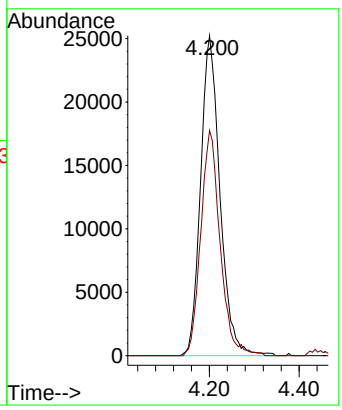




#13
Acrolein
Concen: 418.463 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 56 Resp: 7557

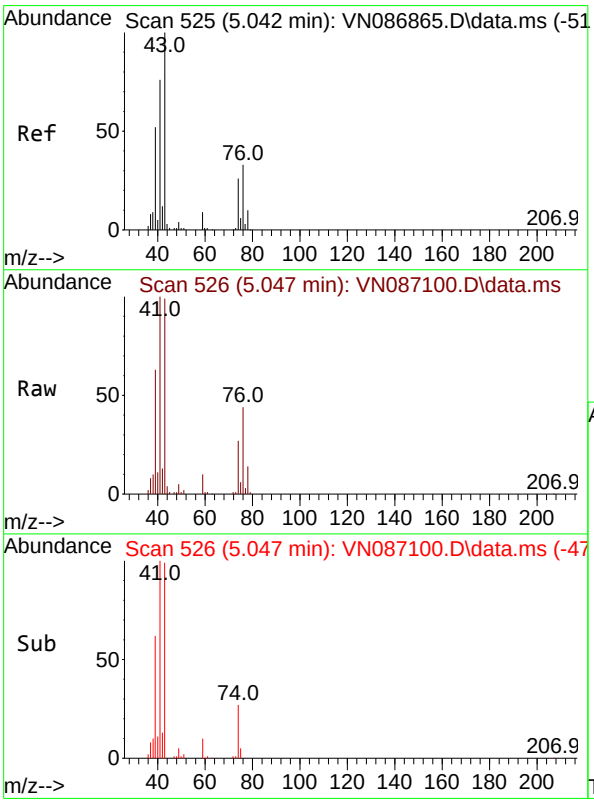
Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

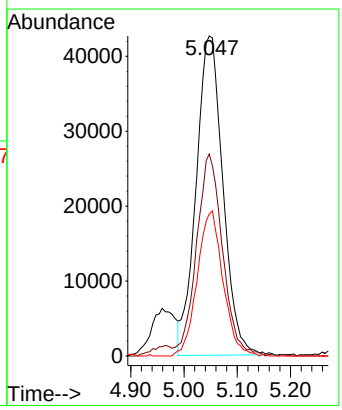
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

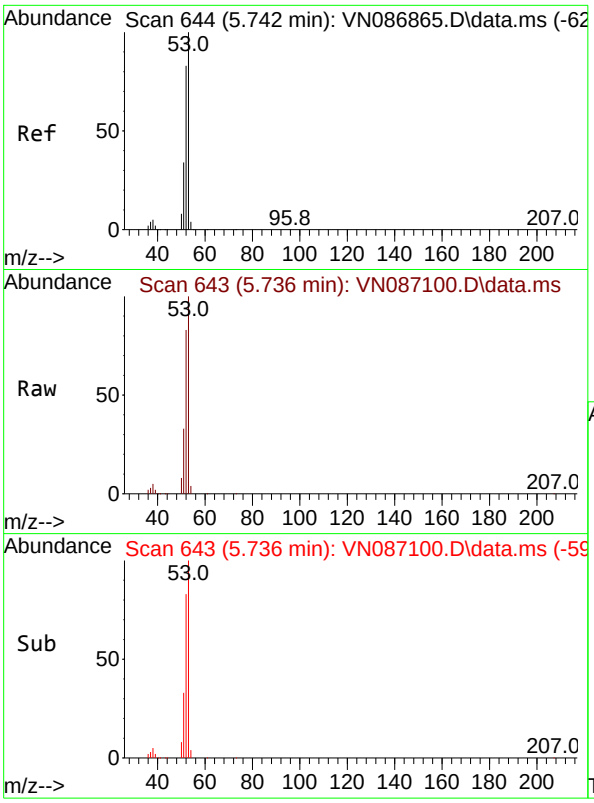


#14
Allyl chloride
Concen: 51.477 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 41 Resp: 149234

Ion	Ratio	Lower	Upper
41	100		
39	61.6	51.3	76.9
76	43.5	31.4	47.0





#15
Acrylonitrile
Concen: 263.851 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

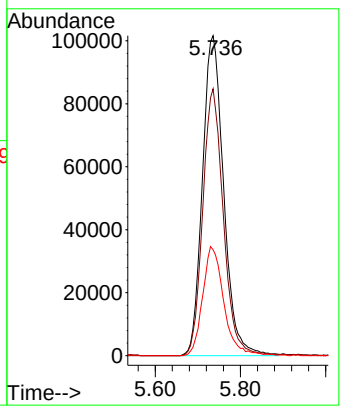
Tgt Ion: 53 Resp: 35187

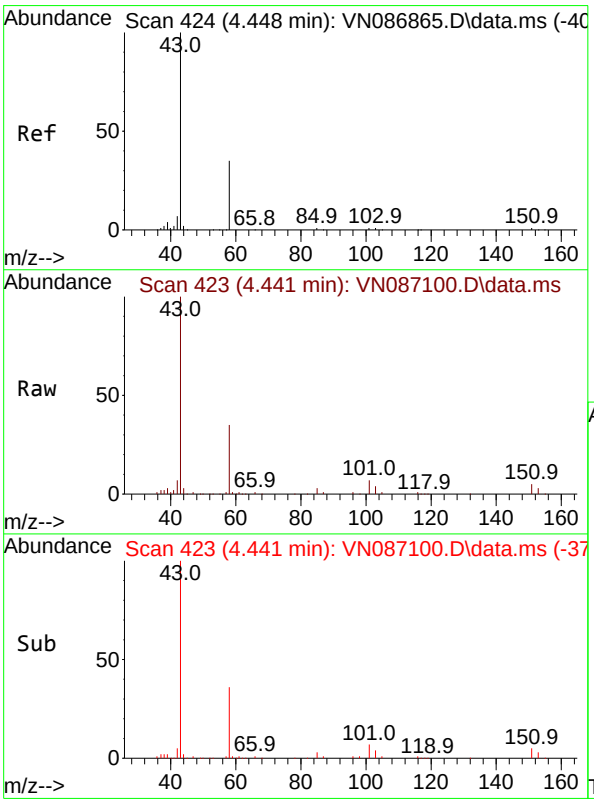
Ion	Ratio	Lower	Upper
53	100		
52	81.2	65.0	97.6
51	34.0	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

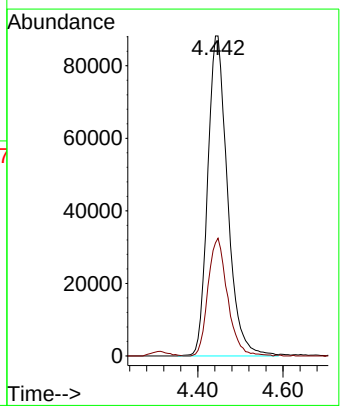


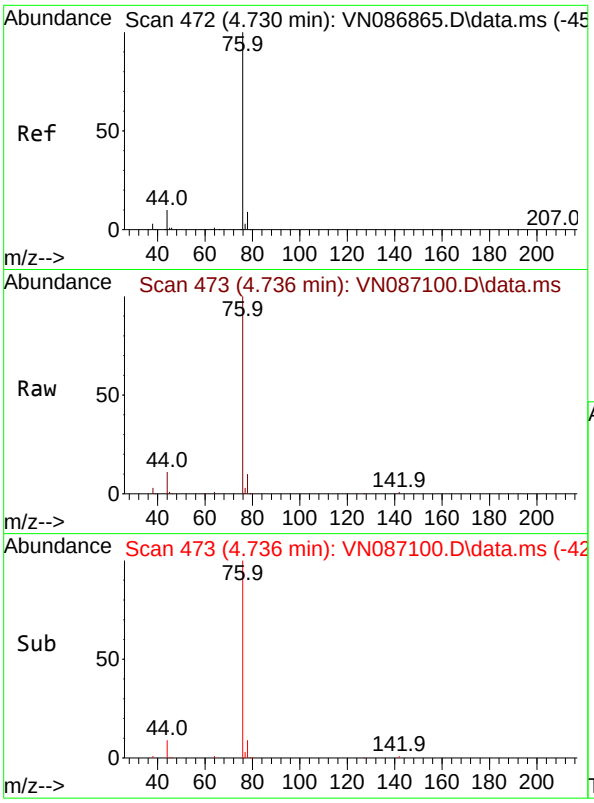


#16
Acetone
Concen: 255.751 ug/l
RT: 4.441 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 43 Resp: 285191

Ion	Ratio	Lower	Upper
43	100		
58	35.1	28.0	42.0

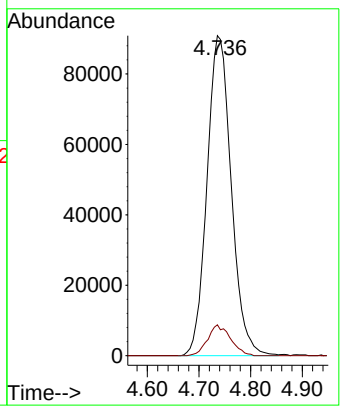




#17
Carbon Disulfide
Concen: 61.273 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 76 Resp: 29627

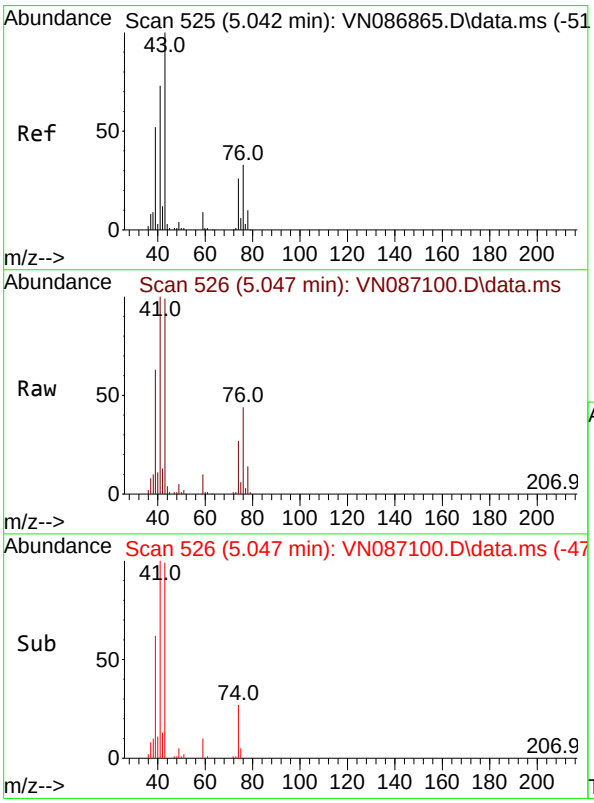
Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

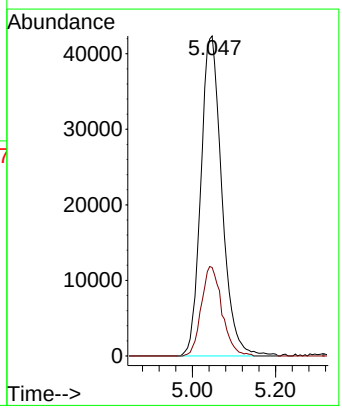
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

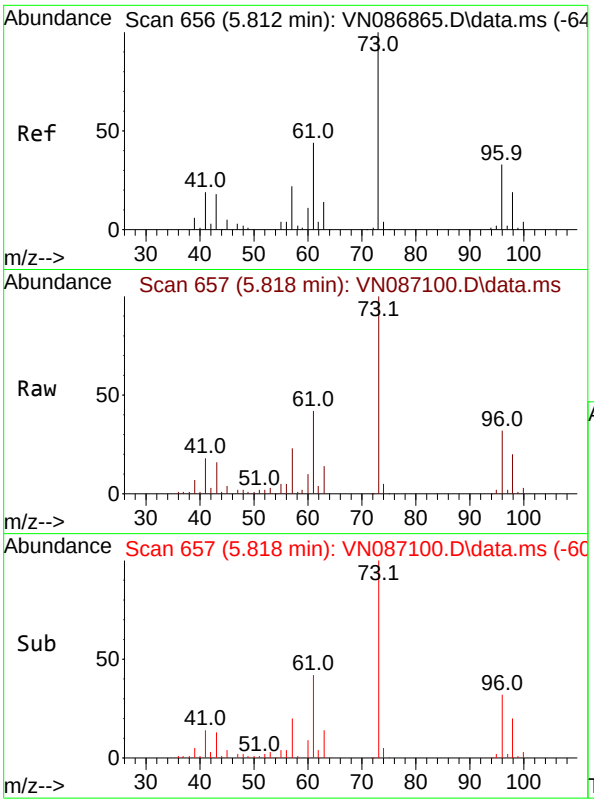


#18
Methyl Acetate
Concen: 45.799 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 43 Resp: 148831

Ion	Ratio	Lower	Upper
43	100		
74	27.4	20.7	31.1

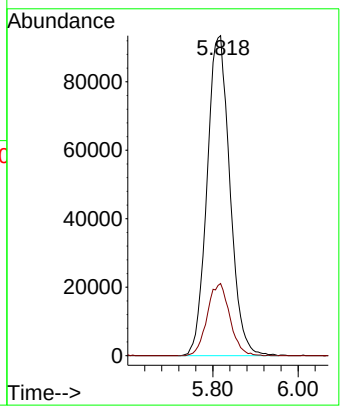




#19
Methyl tert-butyl Ether
Concen: 54.911 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 73 Resp: 34754

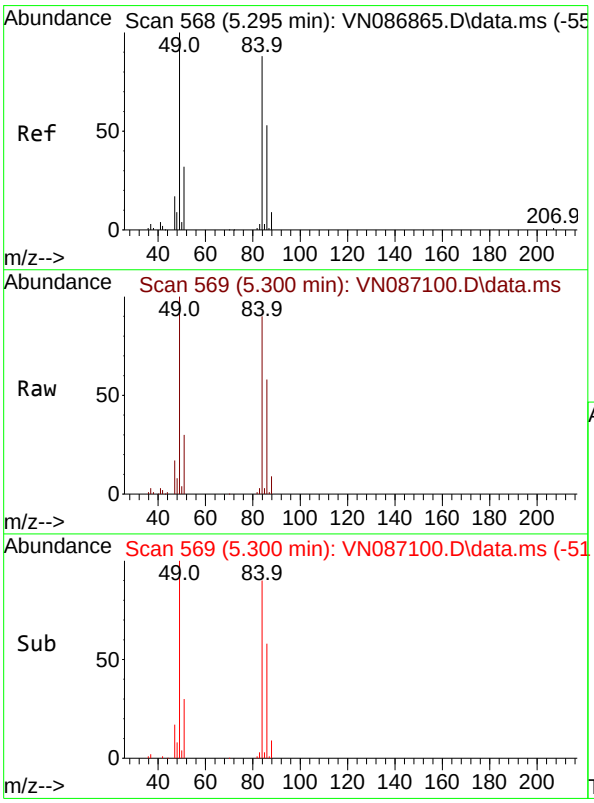
Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

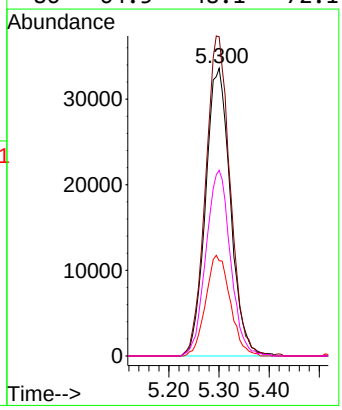
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

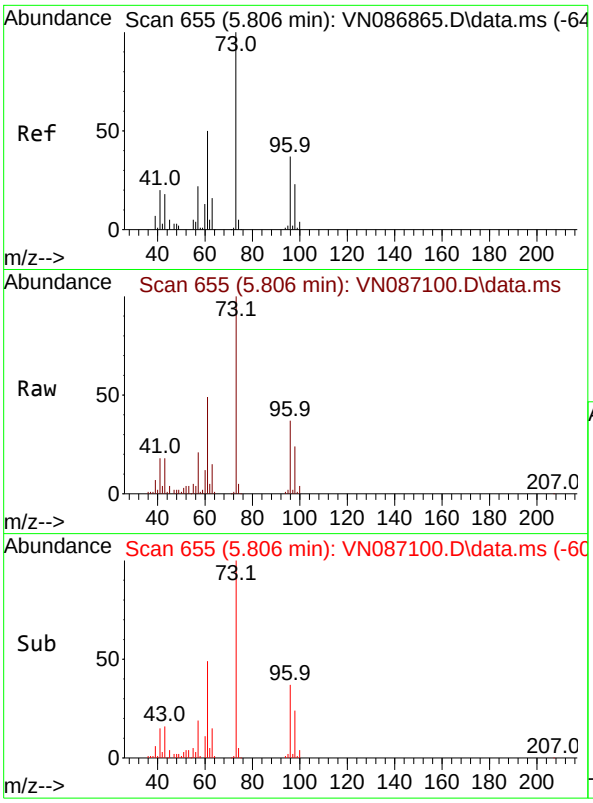


#20
Methylene Chloride
Concen: 55.493 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 84 Resp: 115852

Ion	Ratio	Lower	Upper
84	100		
49	111.0	90.5	135.7
51	33.1	28.5	42.7
86	64.5	48.1	72.1

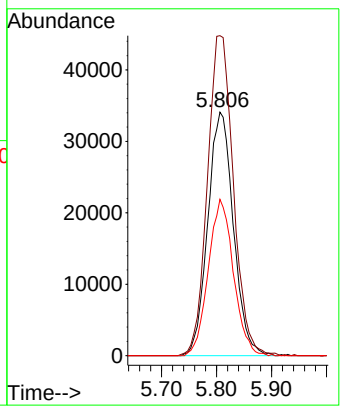




#21
trans-1,2-Dichloroethene
Concen: 56.750 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 96 Resp: 11037

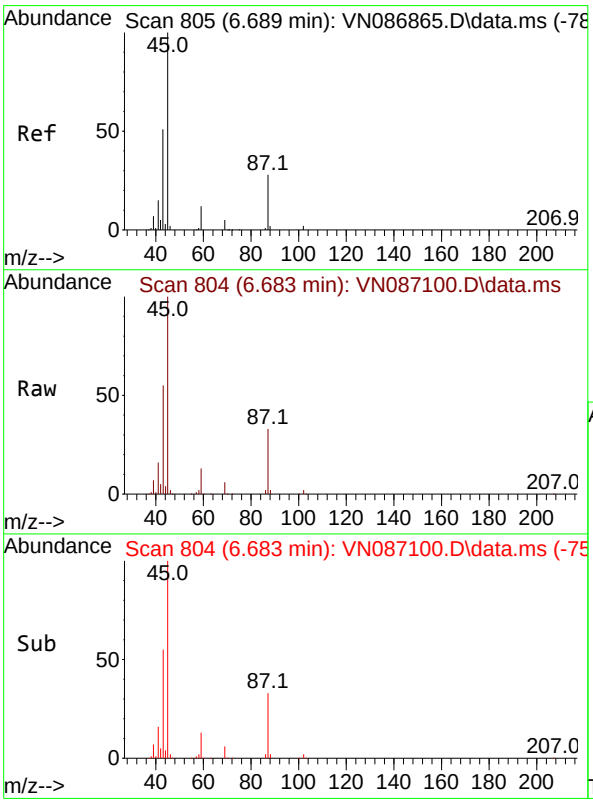
Ion	Ratio	Lower	Upper
96	100		
61	131.4	109.2	163.8
98	64.2	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

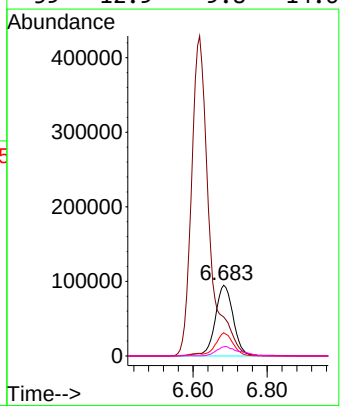
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

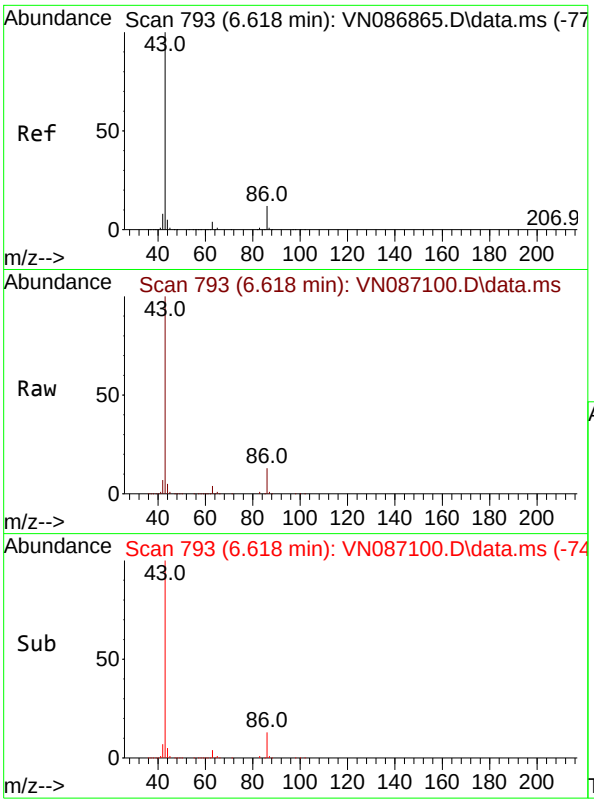


#22
Diisopropyl ether
Concen: 52.602 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 45 Resp: 321446

Ion	Ratio	Lower	Upper
45	100		
43	54.5	41.9	62.9
87	32.8	22.4	33.6
59	12.9	9.8	14.6

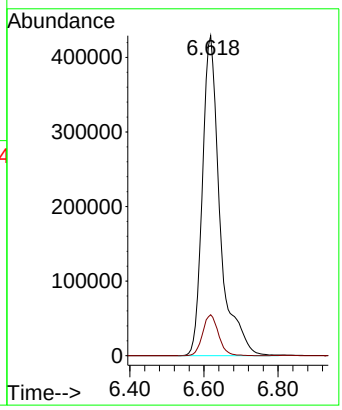




#23
Vinyl Acetate
Concen: 273.362 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 43 Resp: 141138

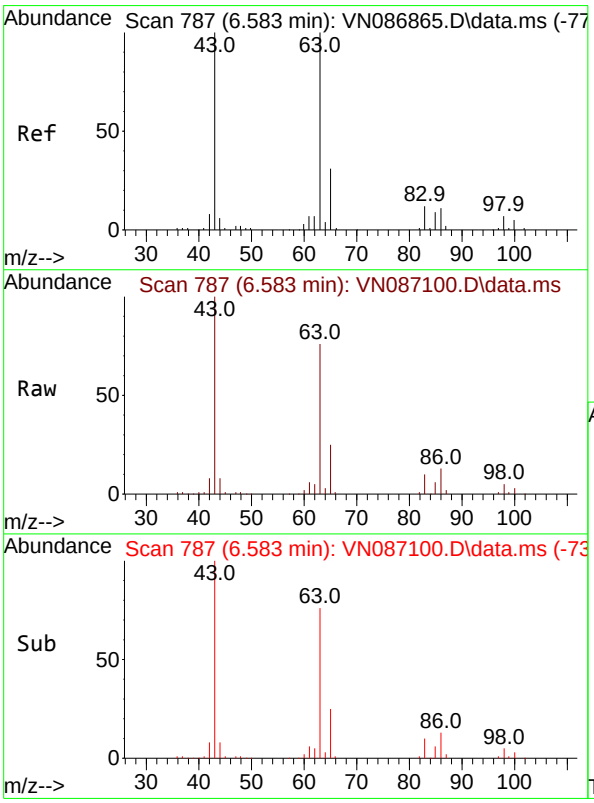
Ion	Ratio	Lower	Upper
43	100		
86	12.8	9.5	14.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

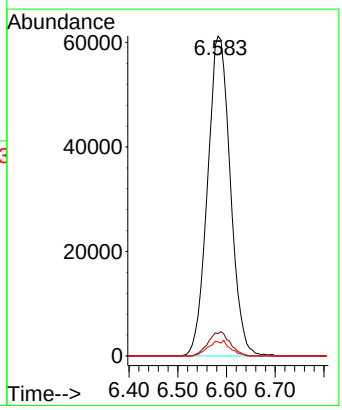
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

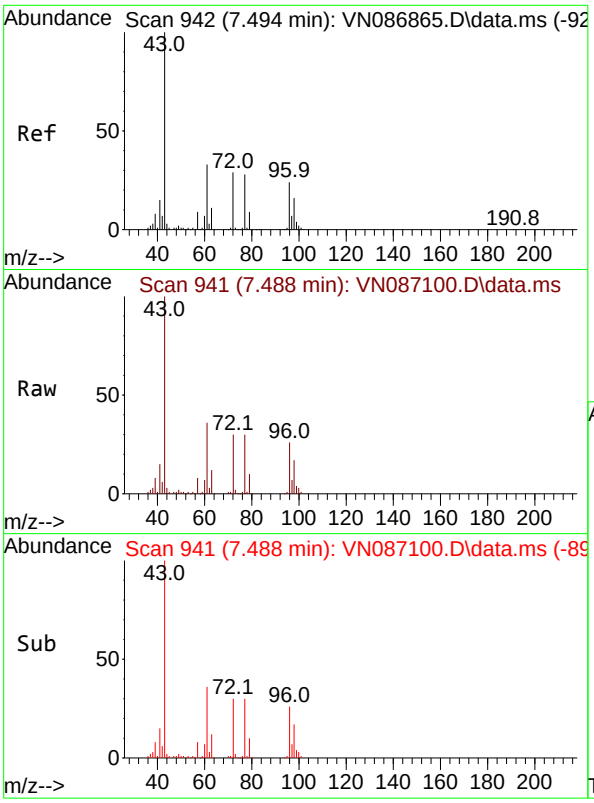


#24
1,1-Dichloroethane
Concen: 56.526 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 63 Resp: 198785

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.6	10.8
100	4.4	2.6	7.8





#25
2-Butanone
Concen: 243.615 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

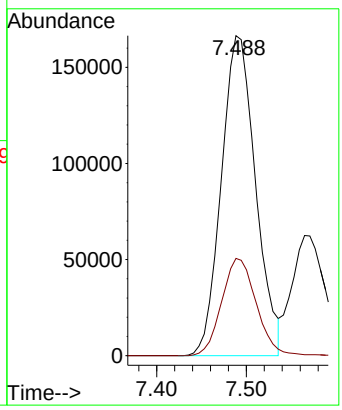
Tgt Ion: 43 Resp: 44157

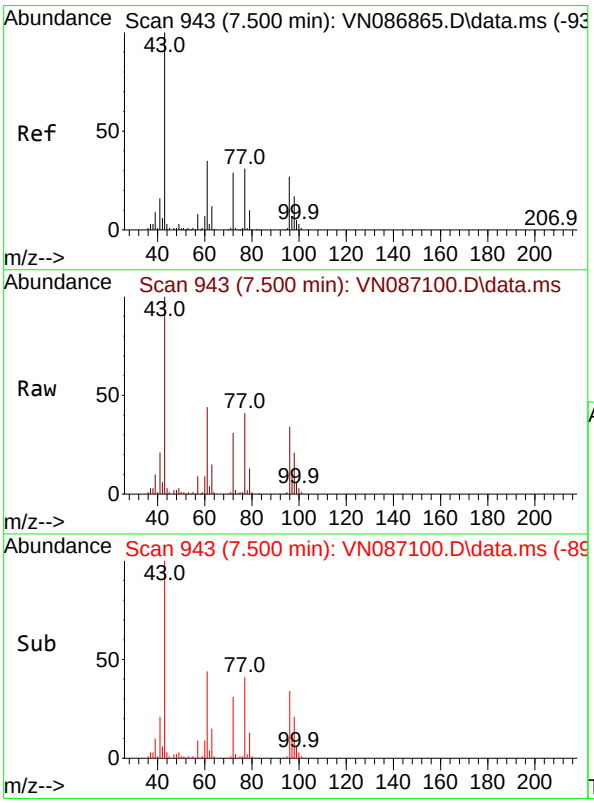
Ion	Ratio	Lower	Upper
43	100		
72	30.4	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

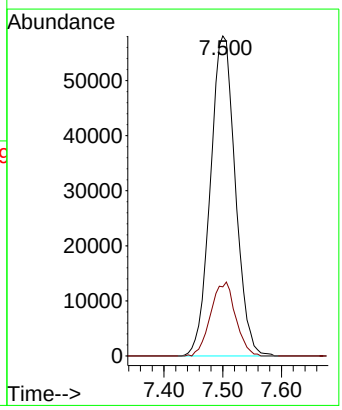


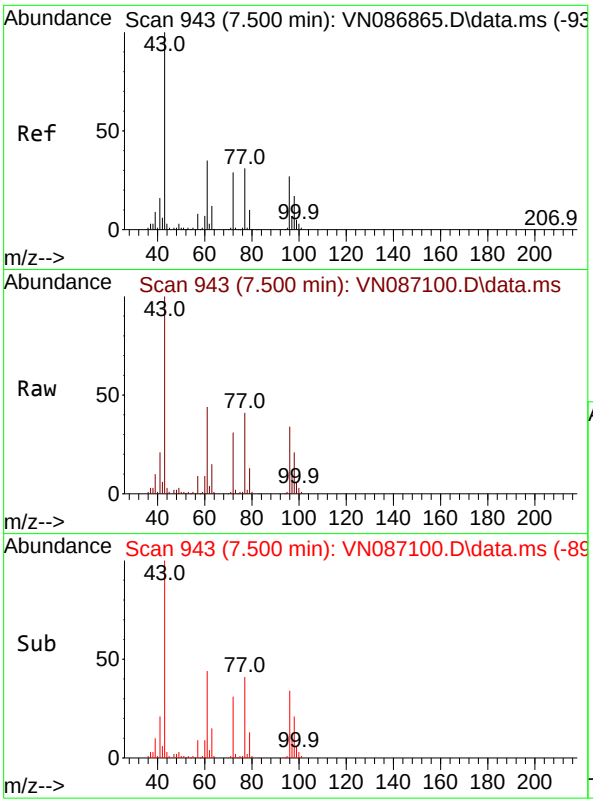


#26
2,2-Dichloropropane
Concen: 62.543 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 77 Resp: 171090

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.6	34.7

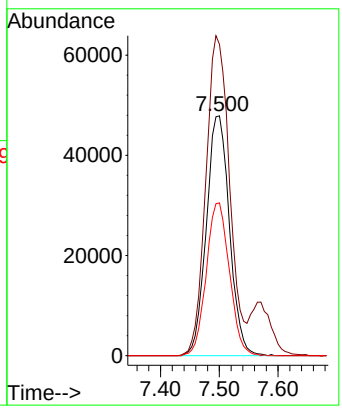




#27
cis-1,2-Dichloroethene
Concen: 56.366 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 96 Resp: 13110

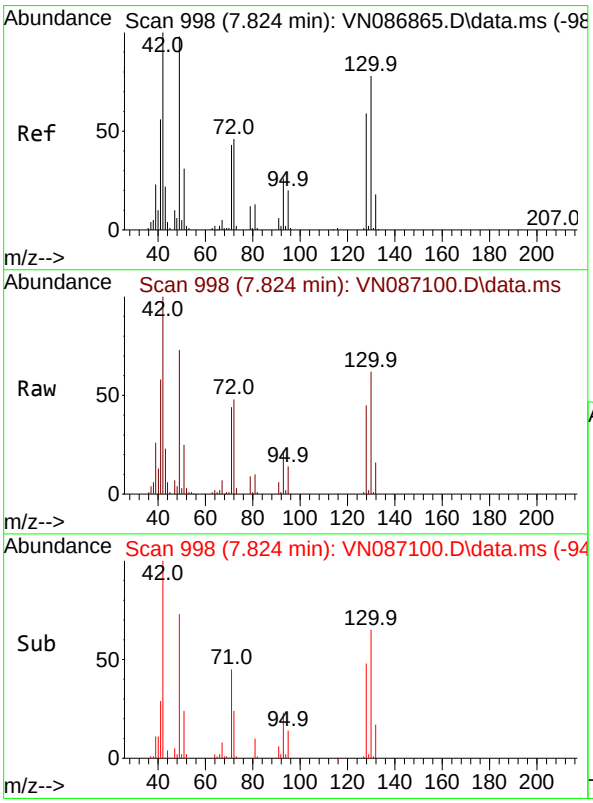
Ion	Ratio	Lower	Upper
96	100		
61	137.1	0.0	278.0
98	63.8	0.0	128.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

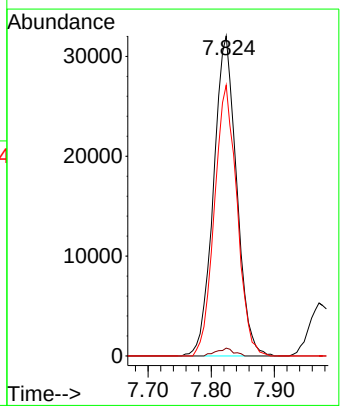
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

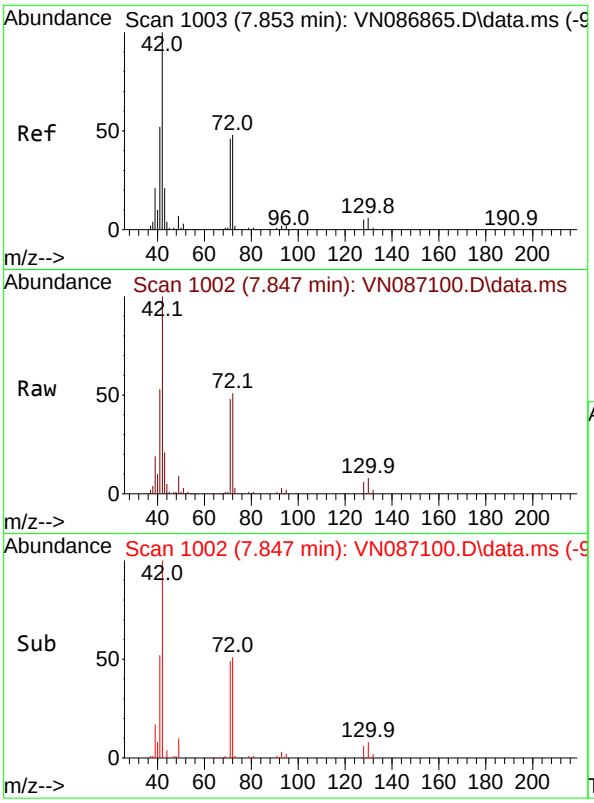


#28
Bromochloromethane
Concen: 46.941 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 49 Resp: 81165

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	82.9	62.2	93.2

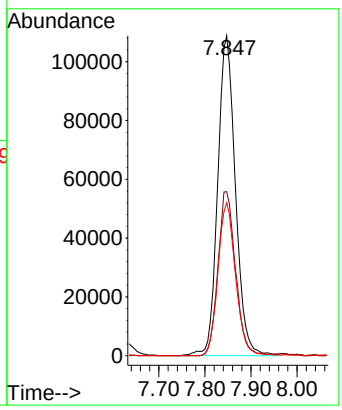




#29
Tetrahydrofuran
Concen: 245.546 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

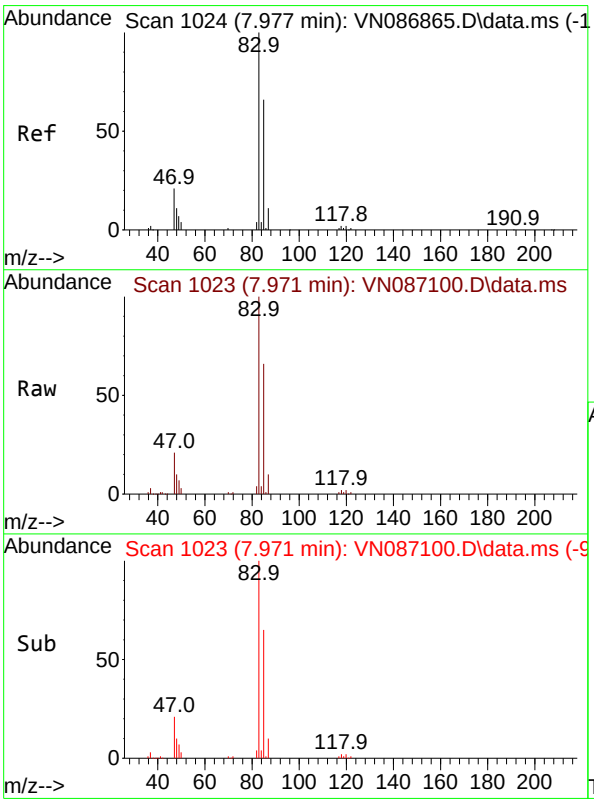
Tgt Ion: 42 Resp: 28993

Ion	Ratio	Lower	Upper
42	100		
72	50.7	37.8	56.6
71	47.5	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

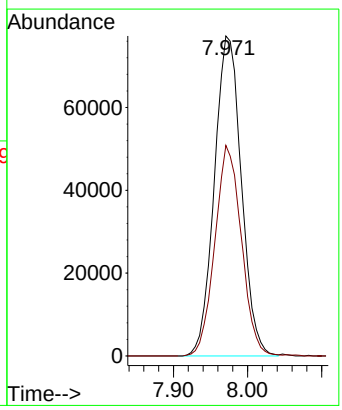
Manual Integrations
APPROVED
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

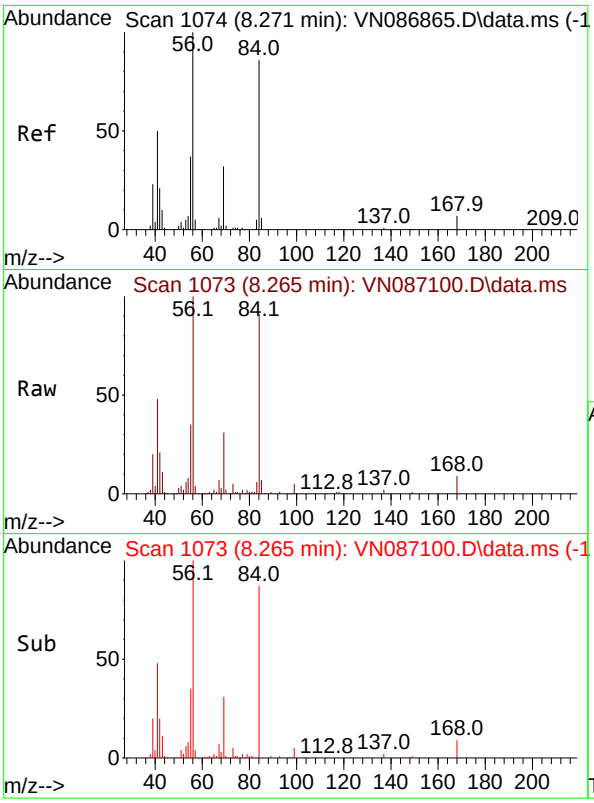


#30
Chloroform
Concen: 55.695 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 83 Resp: 195599

Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.9	79.3

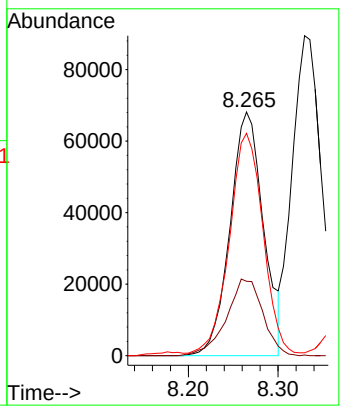




#31
Cyclohexane
Concen: 51.646 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 56 Resp: 17613

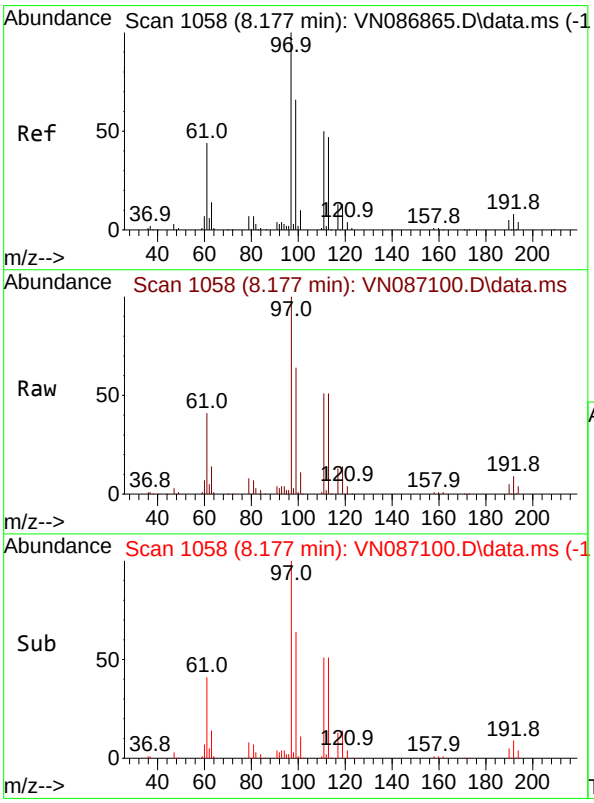
Ion	Ratio	Lower	Upper
56	100		
69	30.5	25.4	38.0
84	90.0	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

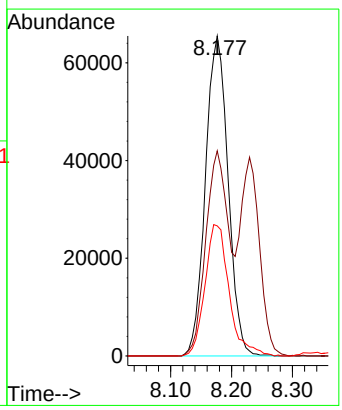
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

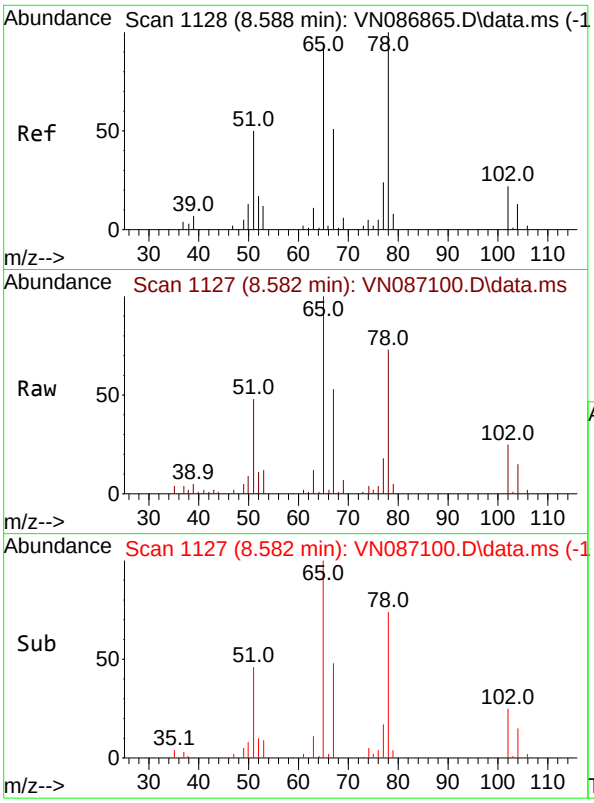


#32
1,1,1-Trichloroethane
Concen: 56.618 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 97 Resp: 169121

Ion	Ratio	Lower	Upper
97	100		
99	66.1	52.0	78.0
61	43.8	35.9	53.9

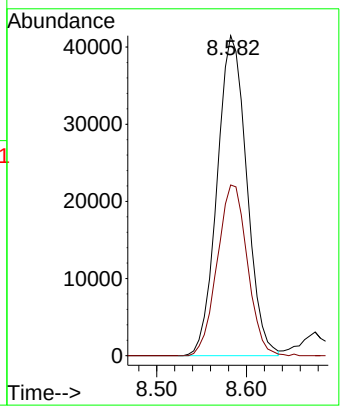




#33
1,2-Dichloroethane-d4
Concen: 45.107 ug/l
RT: 8.582 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 65 Resp: 9484

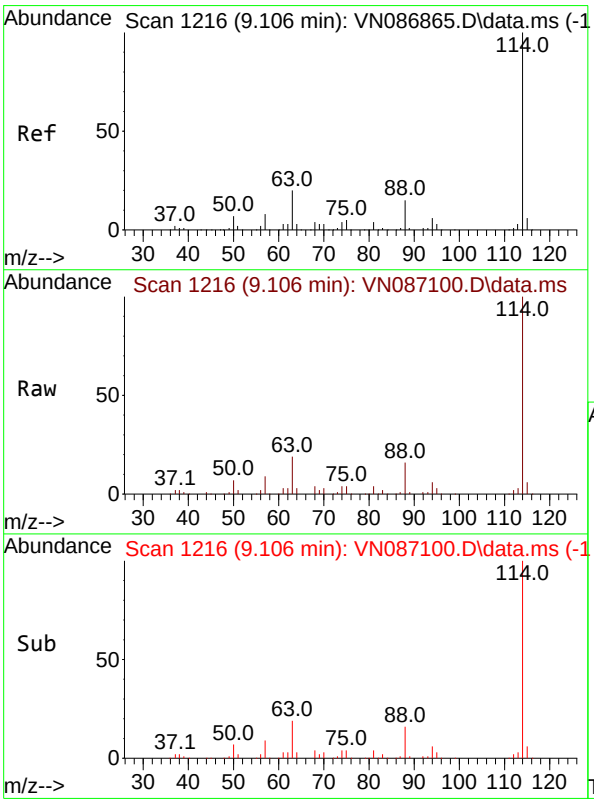
Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

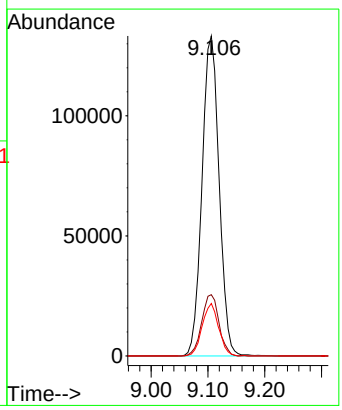
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

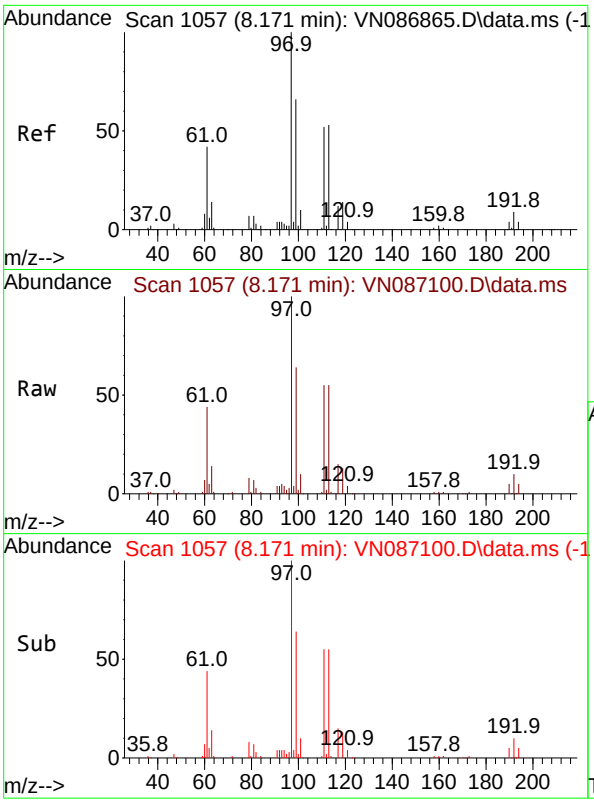


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:114 Resp: 278046

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	39.6
88	16.4	0.0	30.2

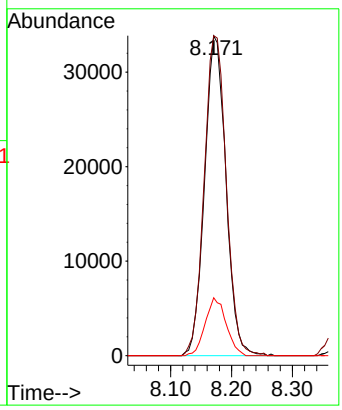




#35
Dibromofluoromethane
Concen: 49.979 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:113 Resp: 8235

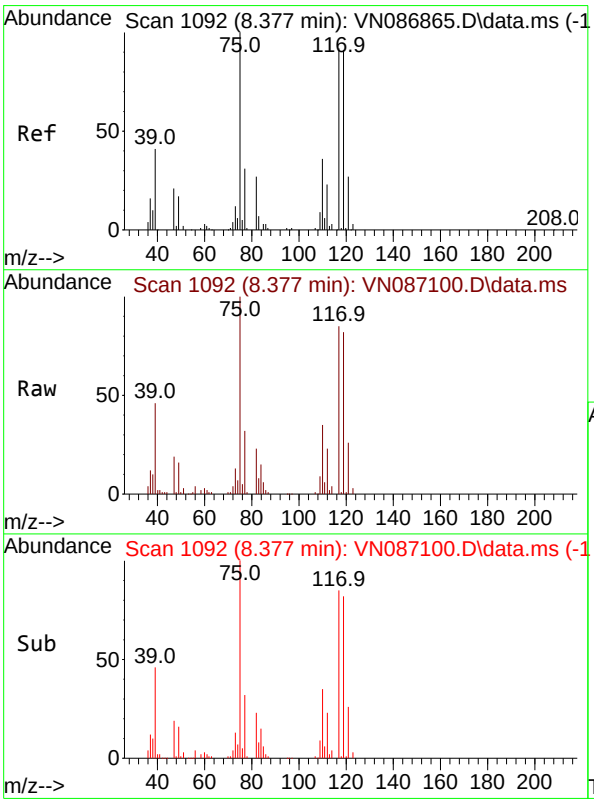
Ion	Ratio	Lower	Upper
113	100		
111	103.4	84.2	126.2
192	17.8	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

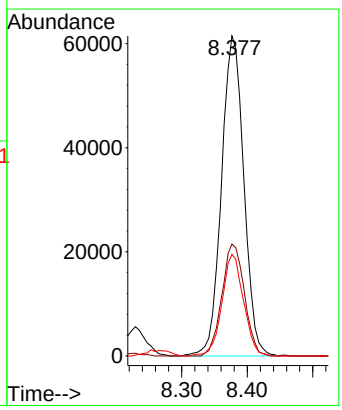
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

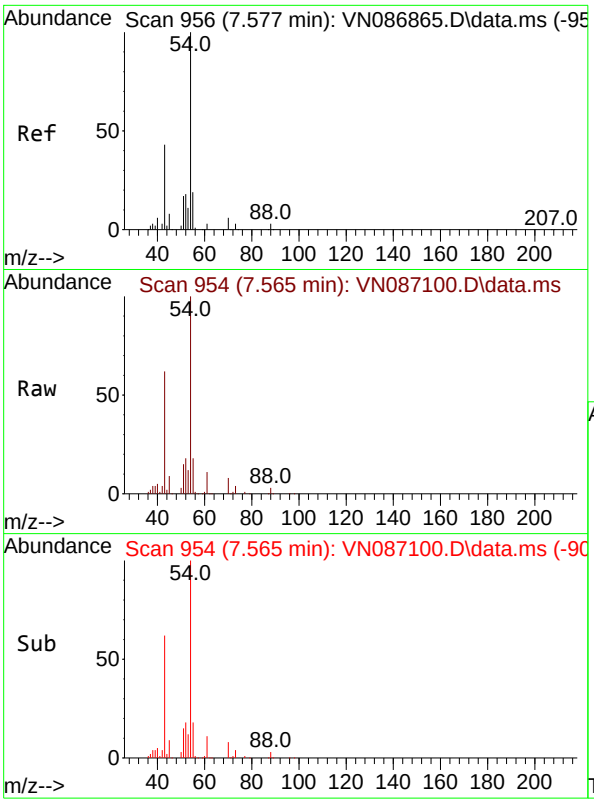


#36
1,1-Dichloropropene
Concen: 59.187 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 75 Resp: 145323

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.6	52.9
77	30.6	25.3	37.9

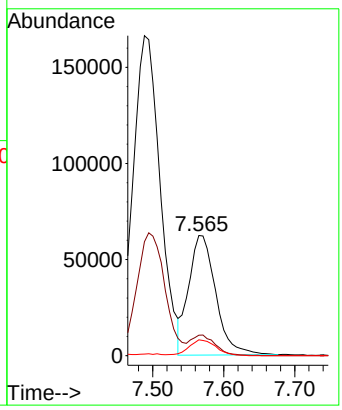




#37
Ethyl Acetate
Concen: 52.938 ug/l
RT: 7.565 min Scan# 9
Delta R.T. -0.012 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 43 Resp: 16546

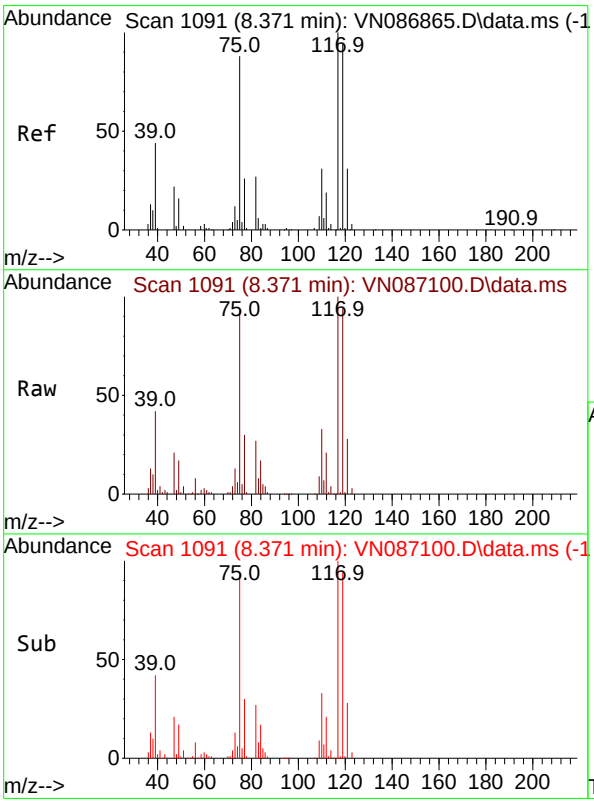
Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.1	18.1
70	13.3	9.8	14.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

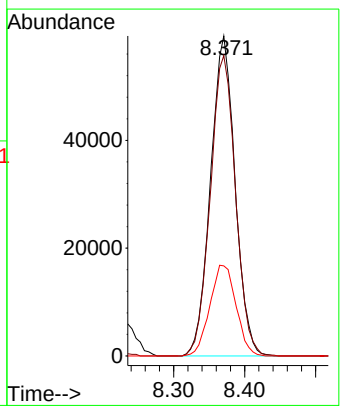
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

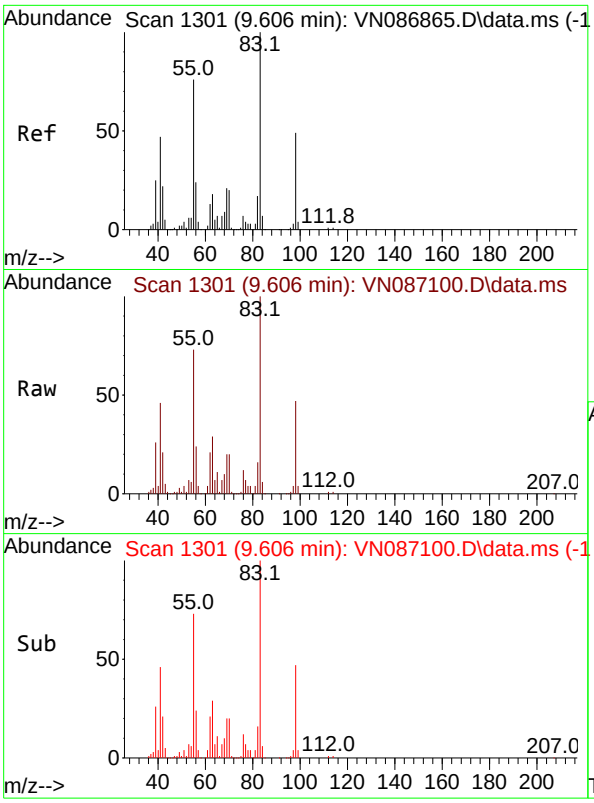


#38
Carbon Tetrachloride
Concen: 59.026 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:117 Resp: 142286

Ion	Ratio	Lower	Upper
117	100		
119	93.8	75.0	112.6
121	28.2	24.9	37.3





#39
Methylcyclohexane
Concen: 49.607 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

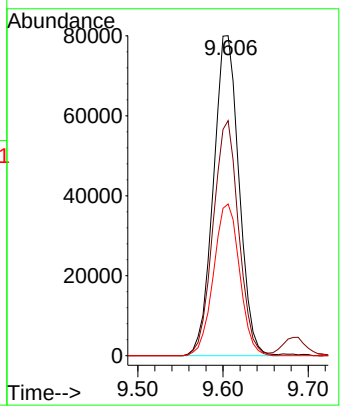
Tgt Ion: 83 Resp: 16687

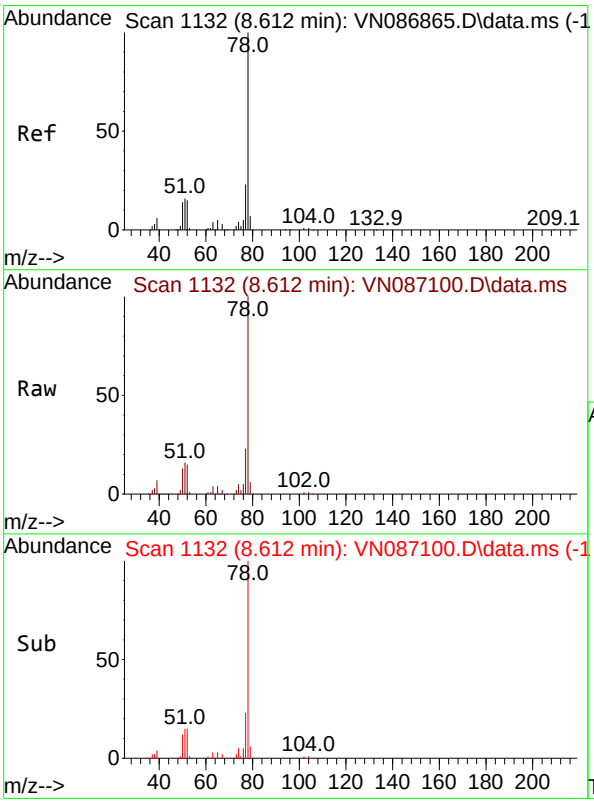
Ion	Ratio	Lower	Upper
83	100		
55	73.5	61.0	91.6
98	47.4	38.9	58.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

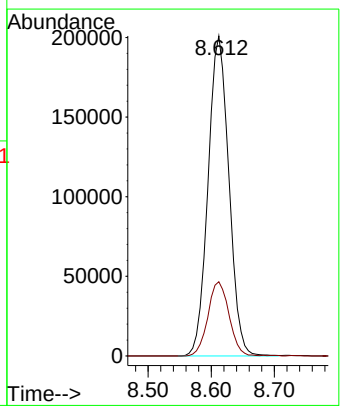


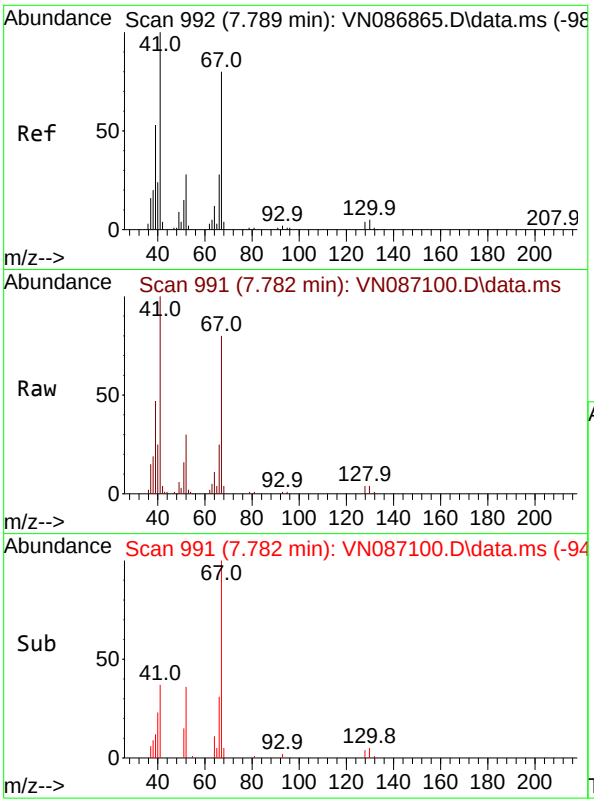


#40
Benzene
Concen: 57.353 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 78 Resp: 460485

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.7	28.1

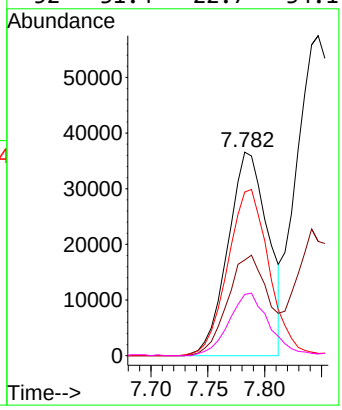




#41
Methacrylonitrile
Concen: 51.098 ug/l
RT: 7.782 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 41 Resp: 8969

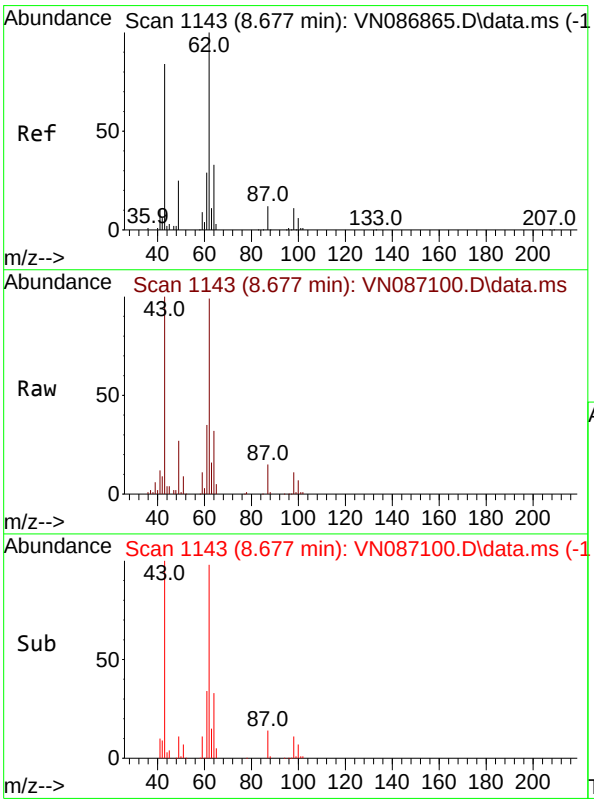
Ion	Ratio	Lower	Upper
41	100		
39	49.6	41.2	61.8
67	85.1	61.4	92.2
52	31.4	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

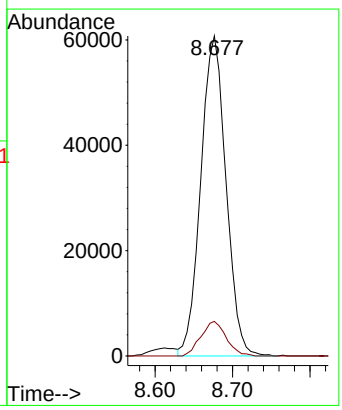
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

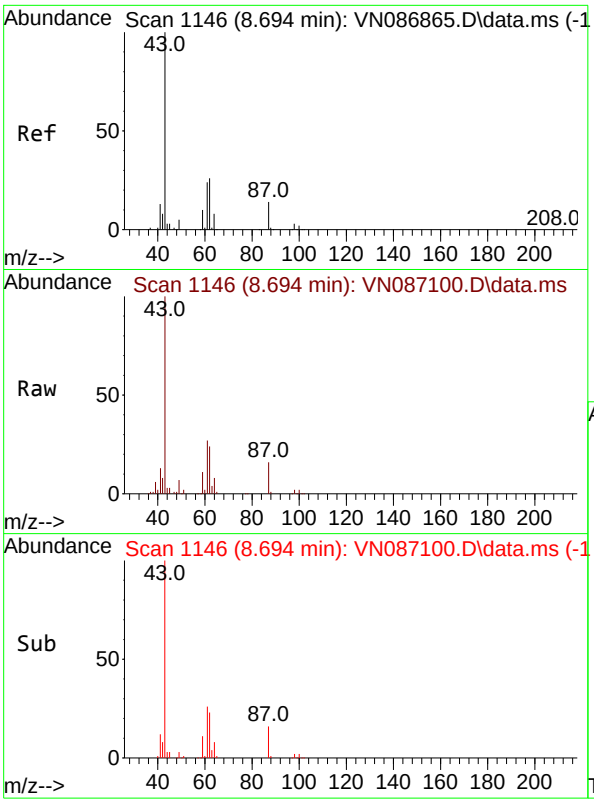


#42
1,2-Dichloroethane
Concen: 56.372 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 62 Resp: 137283

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	21.2

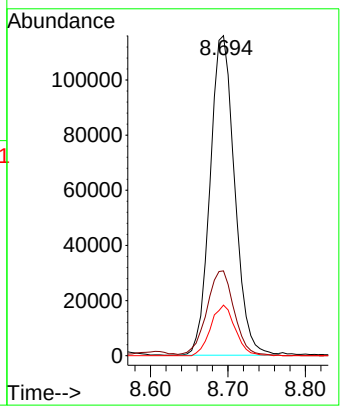




#43
Isopropyl Acetate
Concen: 50.874 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 43 Resp: 25521

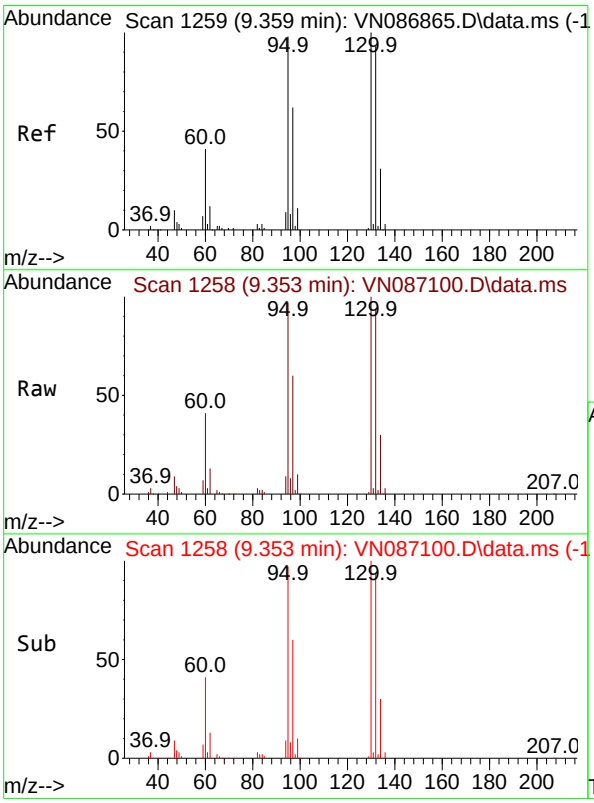
Ion	Ratio	Lower	Upper
43	100		
61	29.7	22.1	33.1
87	15.8	11.8	17.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

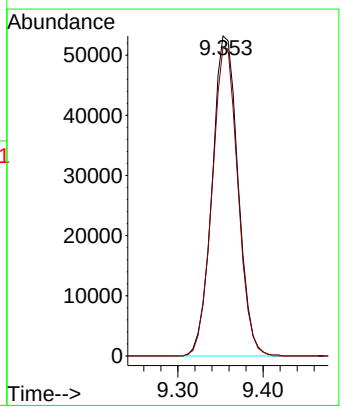
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

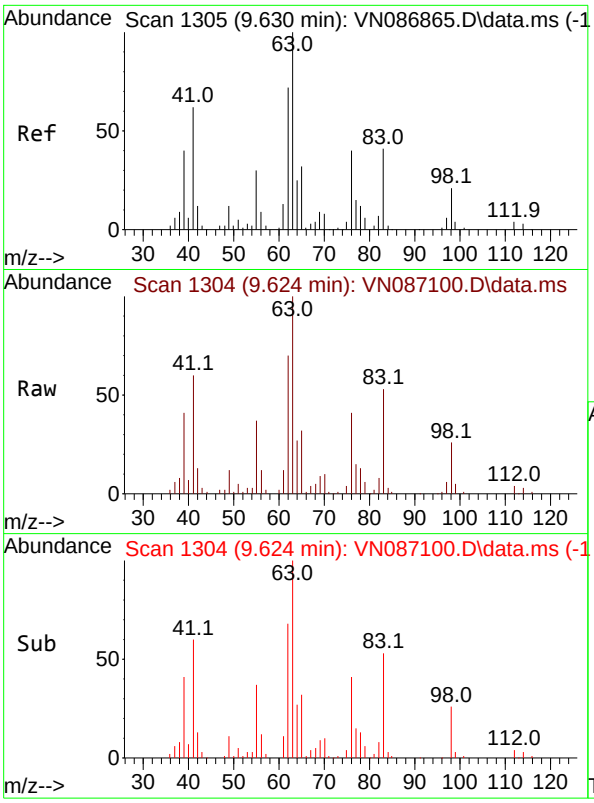


#44
Trichloroethene
Concen: 58.955 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:130 Resp: 112240

Ion	Ratio	Lower	Upper
130	100		
95	96.6	0.0	196.2

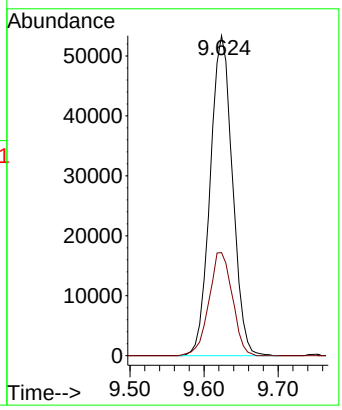




#45
1,2-Dichloropropane
Concen: 57.050 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 63 Resp: 11143

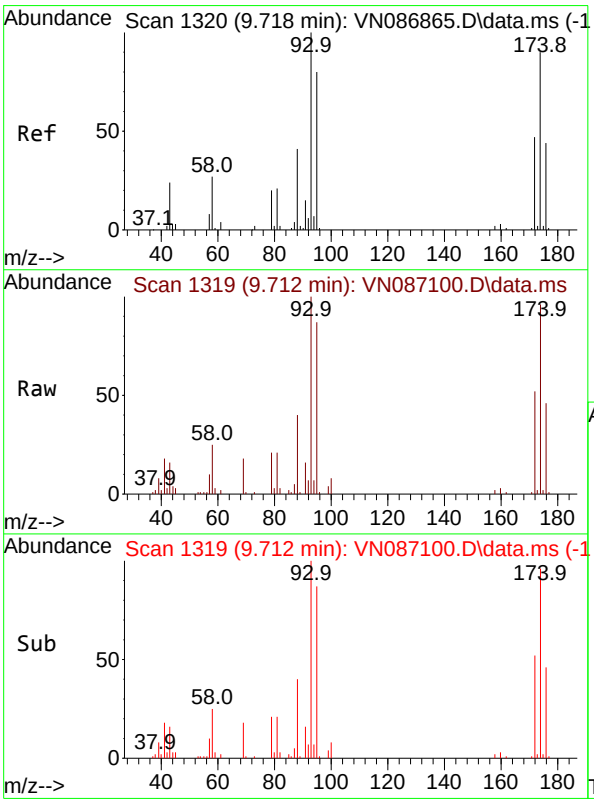
Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

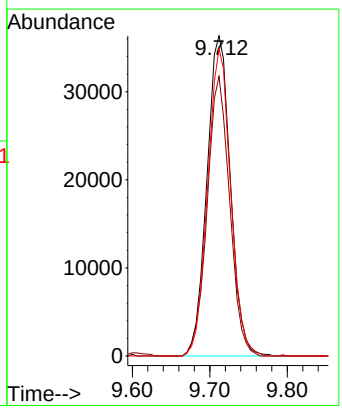
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

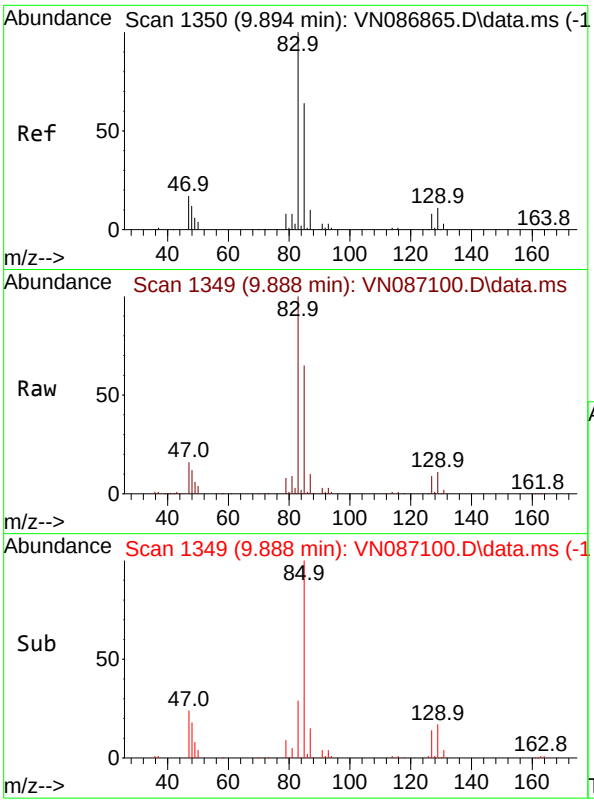


#46
Dibromomethane
Concen: 59.155 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 93 Resp: 76751

Ion	Ratio	Lower	Upper
93	100		
95	83.6	67.1	100.7
174	93.9	74.2	111.4

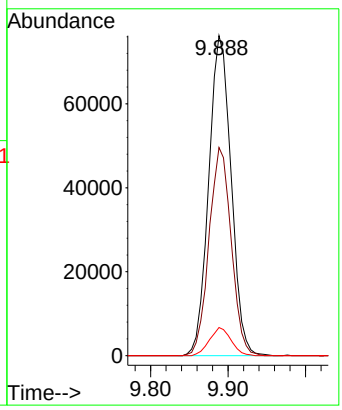




#47
Bromodichloromethane
Concen: 57.289 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 83 Resp: 15293

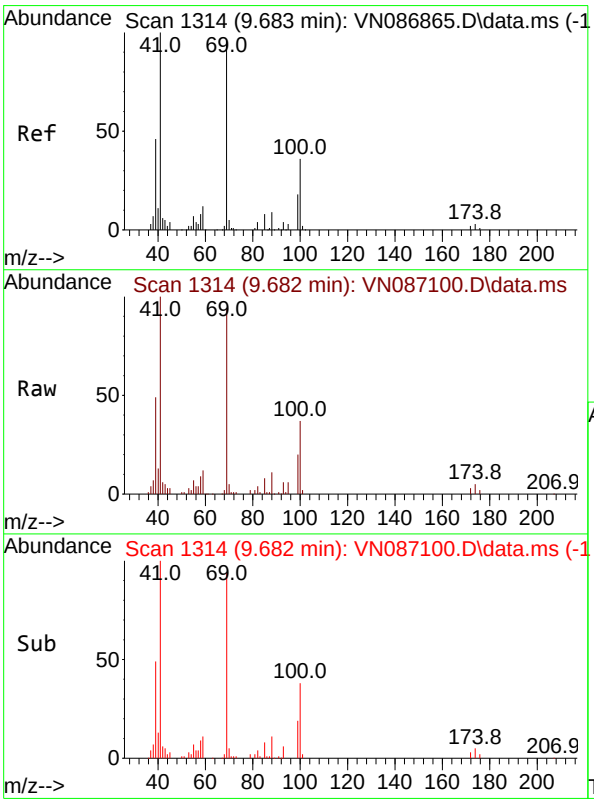
Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.9	76.3
127	8.8	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

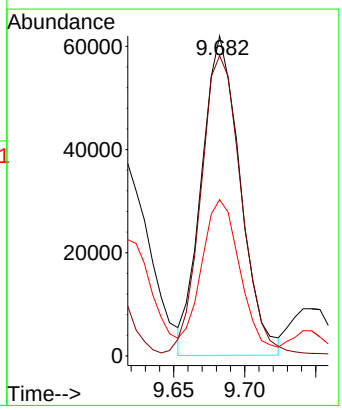
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

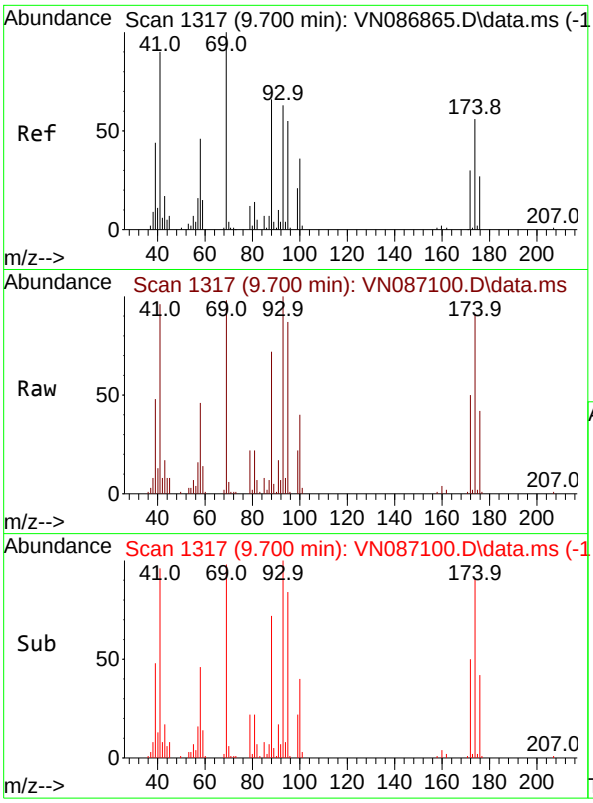


#48
Methyl methacrylate
Concen: 50.770 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 41 Resp: 117229

Ion	Ratio	Lower	Upper
41	100		
69	99.7	74.6	112.0
39	49.8	40.2	60.4





#49
1,4-Dioxane
Concen: 1044.593 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

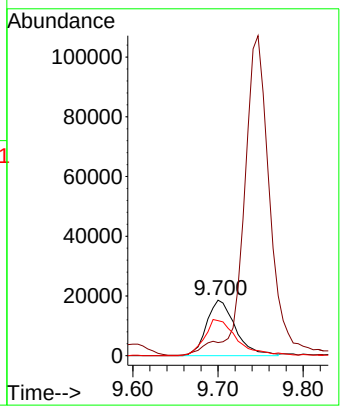
Tgt Ion: 88 Resp: 4387

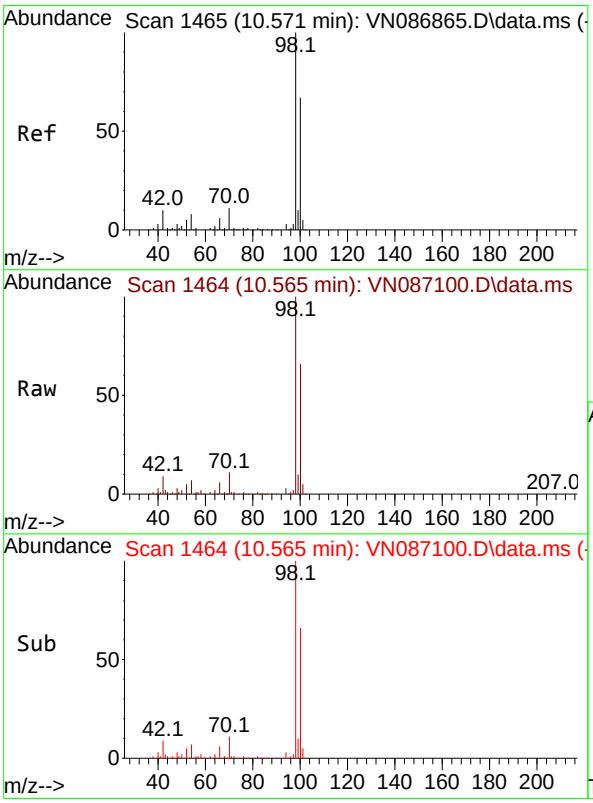
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	73.0	57.7	86.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

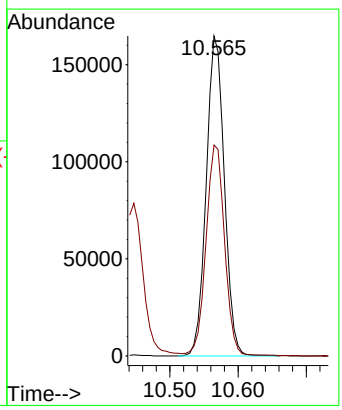


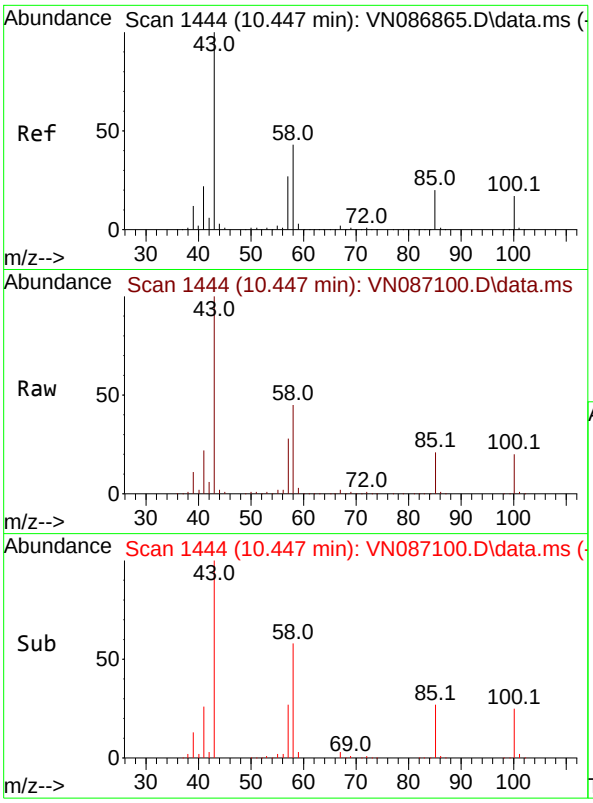


#50
Toluene-d8
Concen: 46.633 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 98 Resp: 304189

Ion	Ratio	Lower	Upper
98	100		
100	68.0	53.4	80.0





#51
4-Methyl-2-Pentanone
Concen: 266.633 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

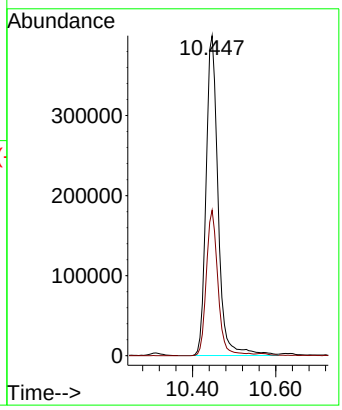
Tgt Ion: 43 Resp: 80525

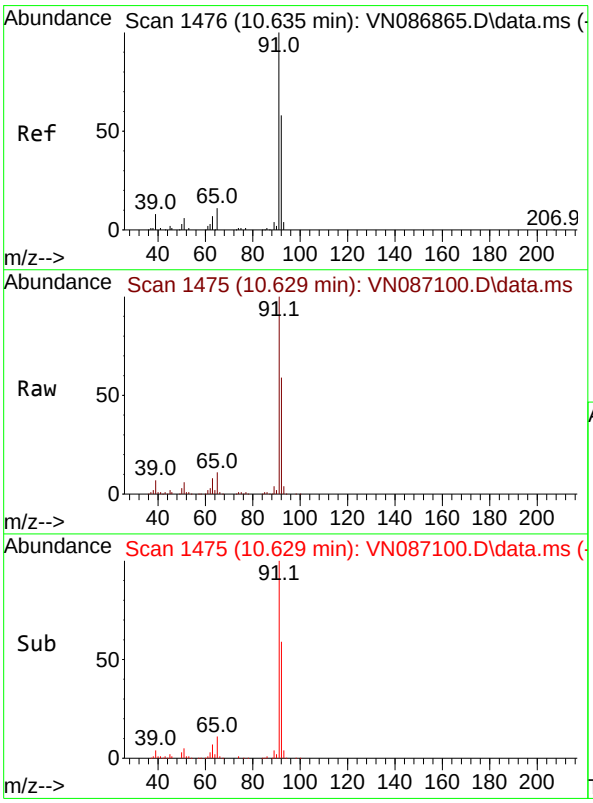
Ion	Ratio	Lower	Upper
43	100		
58	44.0	34.2	51.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

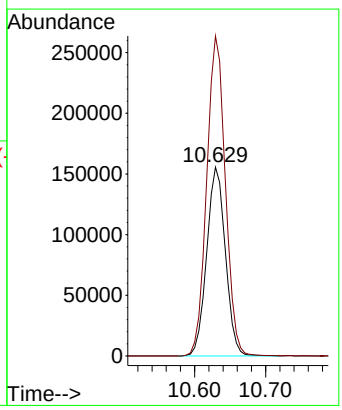


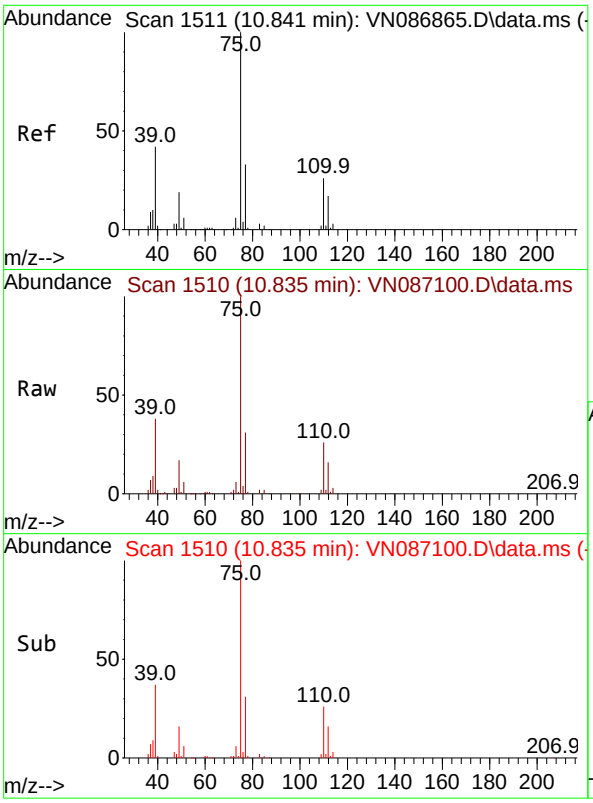


#52
Toluene
Concen: 57.958 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 92 Resp: 284384

Ion	Ratio	Lower	Upper
92	100		
91	169.3	136.5	204.7

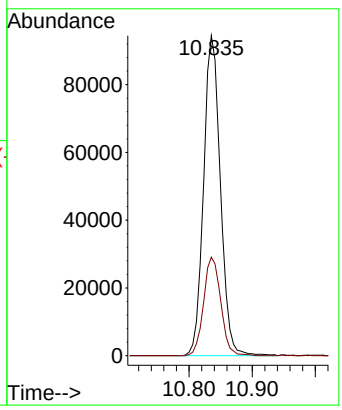




#53
t-1,3-Dichloropropene
Concen: 58.623 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 75 Resp: 17498

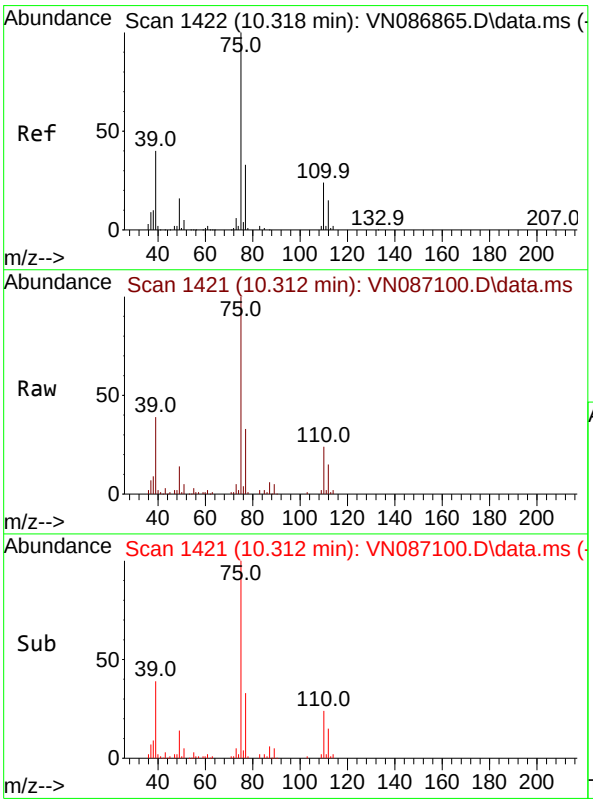
Ion	Ratio	Lower	Upper
75	100		
77	30.8	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

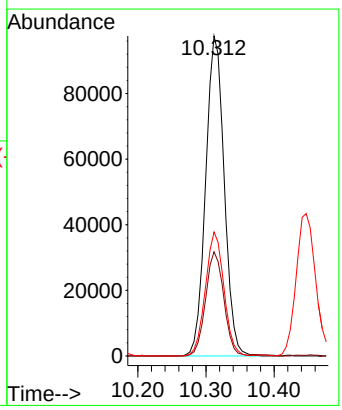
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

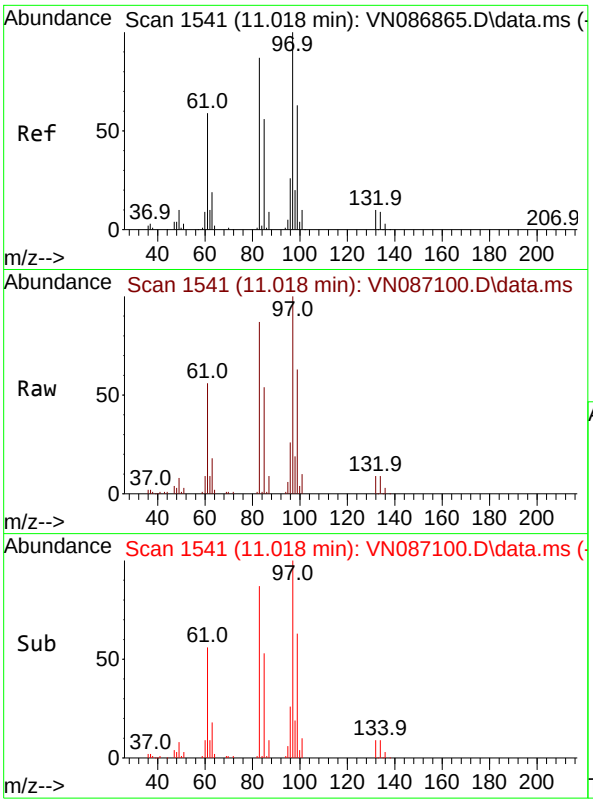


#54
cis-1,3-Dichloropropene
Concen: 57.936 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 75 Resp: 185041

Ion	Ratio	Lower	Upper
75	100		
77	32.6	26.2	39.4
39	38.7	32.3	48.5

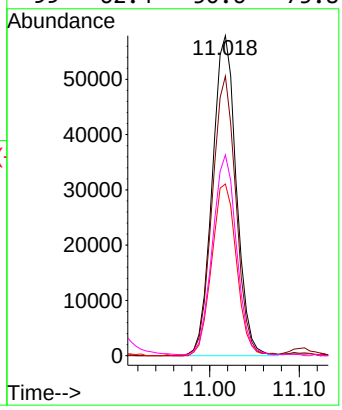




#55
1,1,2-Trichloroethane
Concen: 57.171 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 97 Resp: 10794

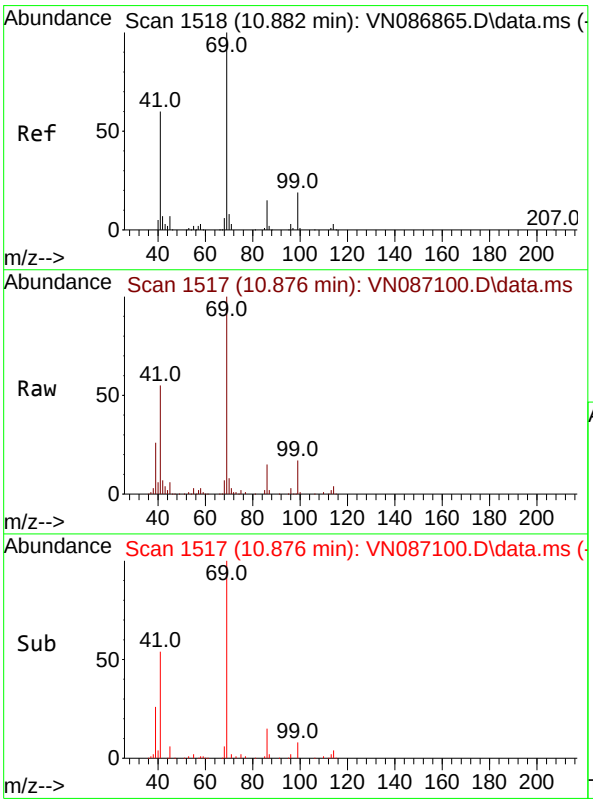
Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.7	104.5
85	53.6	45.1	67.7
99	62.4	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

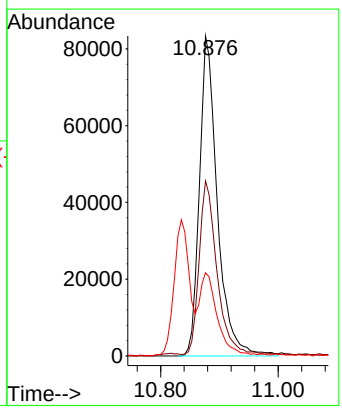
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

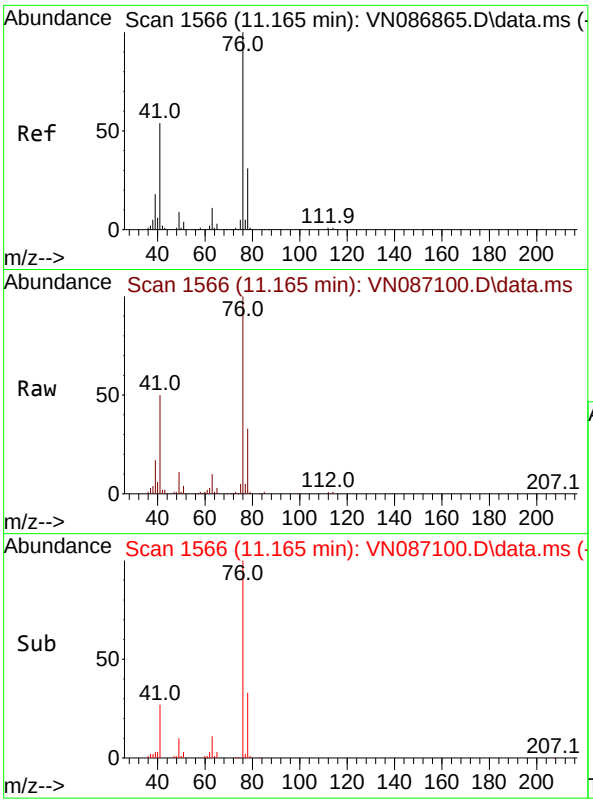


#56
Ethyl methacrylate
Concen: 58.668 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 69 Resp: 176425

Ion	Ratio	Lower	Upper
69	100		
41	54.8	47.2	70.8
39	25.3	23.0	34.6

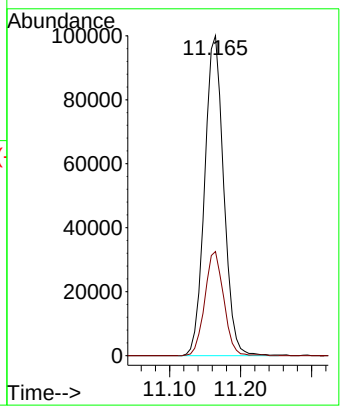




#57
1,3-Dichloropropane
Concen: 56.867 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 76 Resp: 18625

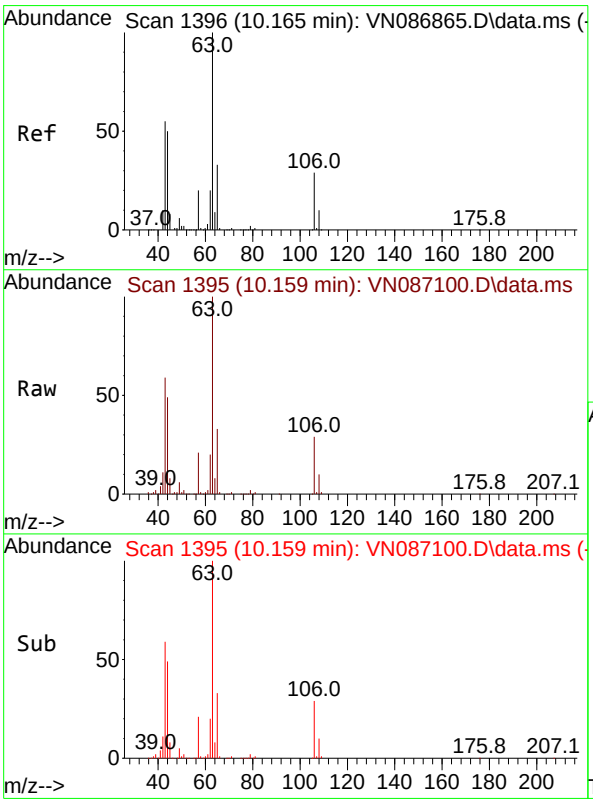
Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

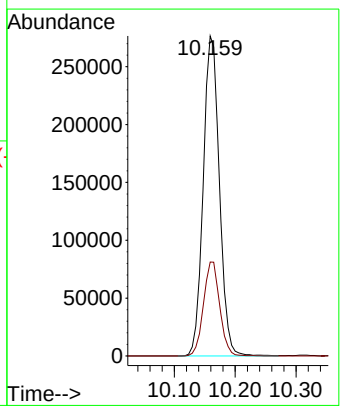
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

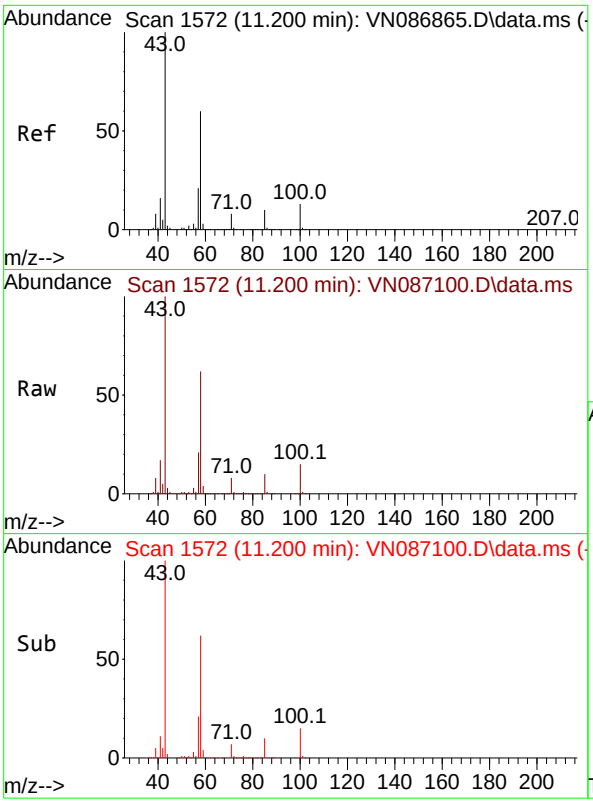


#58
2-Chloroethyl Vinyl ether
Concen: 284.937 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 63 Resp: 511071

Ion	Ratio	Lower	Upper
63	100		
106	29.5	23.0	34.6





#59
2-Hexanone
Concen: 273.673 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

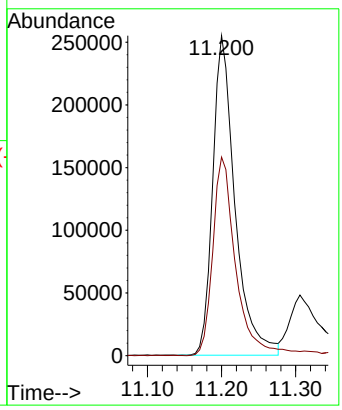
Tgt Ion: 43 Resp: 53238

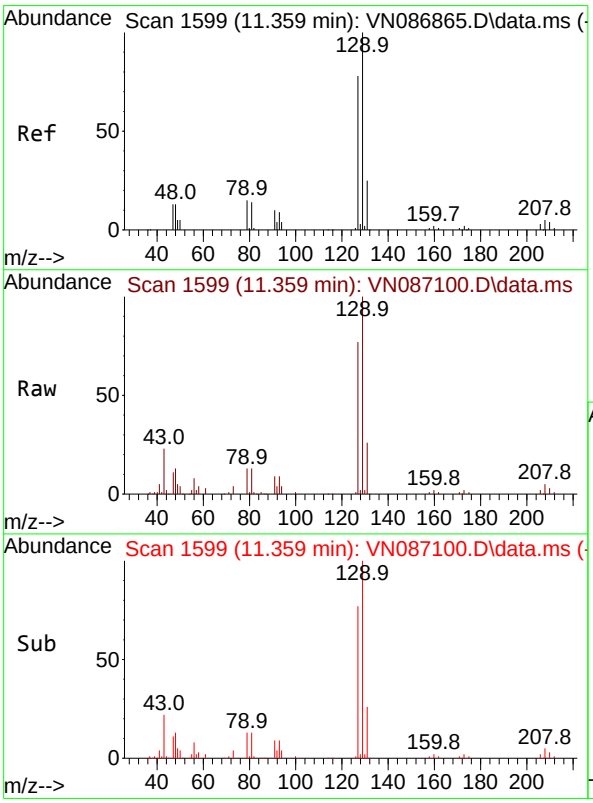
Ion	Ratio	Lower	Upper
43	100		
58	65.2	30.4	91.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

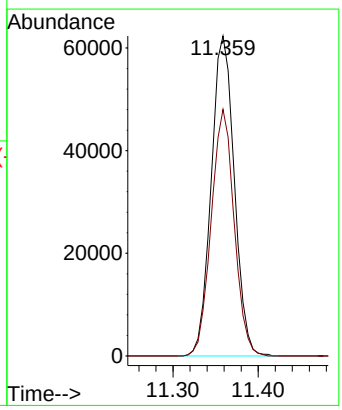


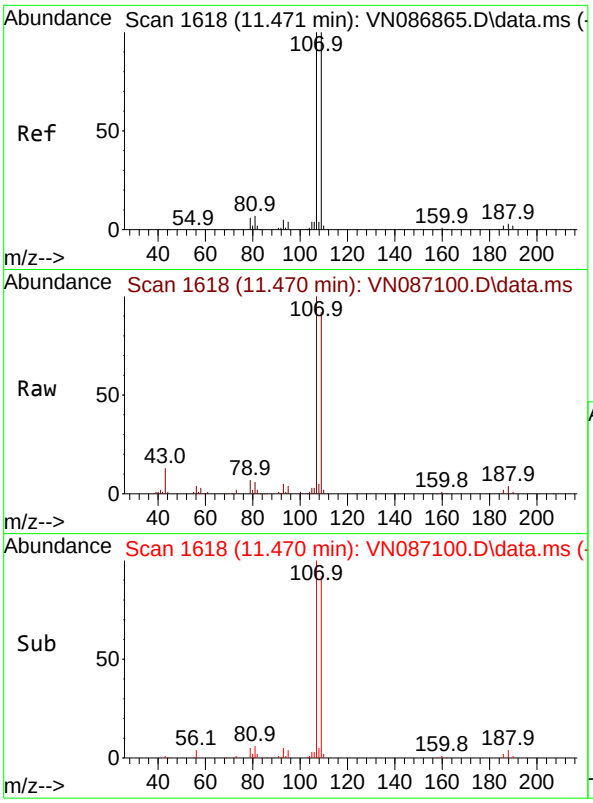


#60
Dibromochloromethane
Concen: 59.583 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:129 Resp: 117206

Ion	Ratio	Lower	Upper
129	100		
127	76.7	38.6	115.8

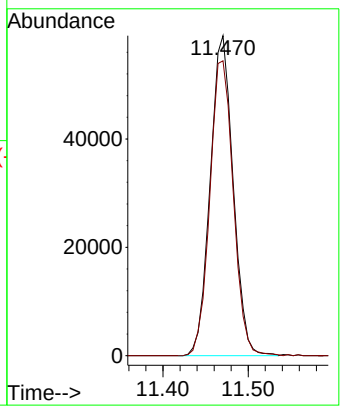




#61
1,2-Dibromoethane
Concen: 57.064 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:107 Resp: 11043

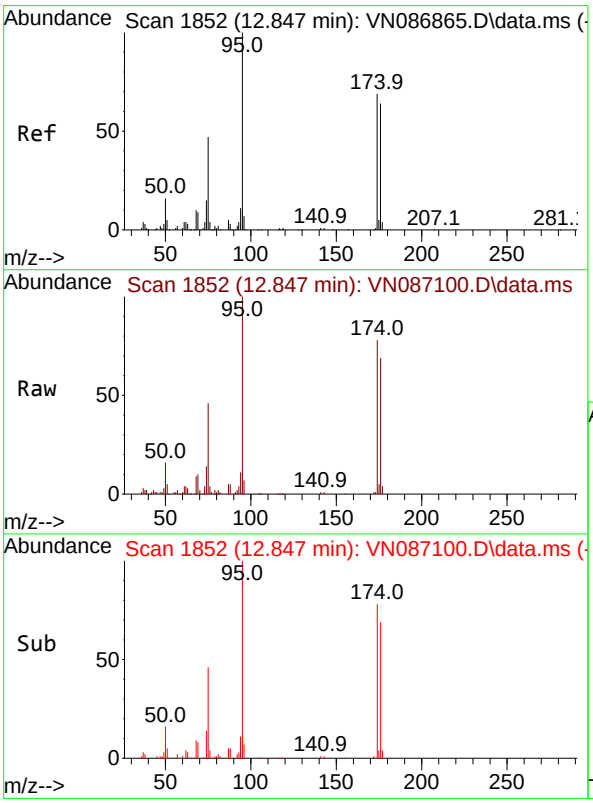
Ion	Ratio	Lower	Upper
107	100		
109	94.2	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

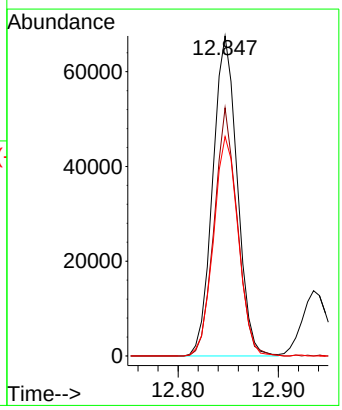
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

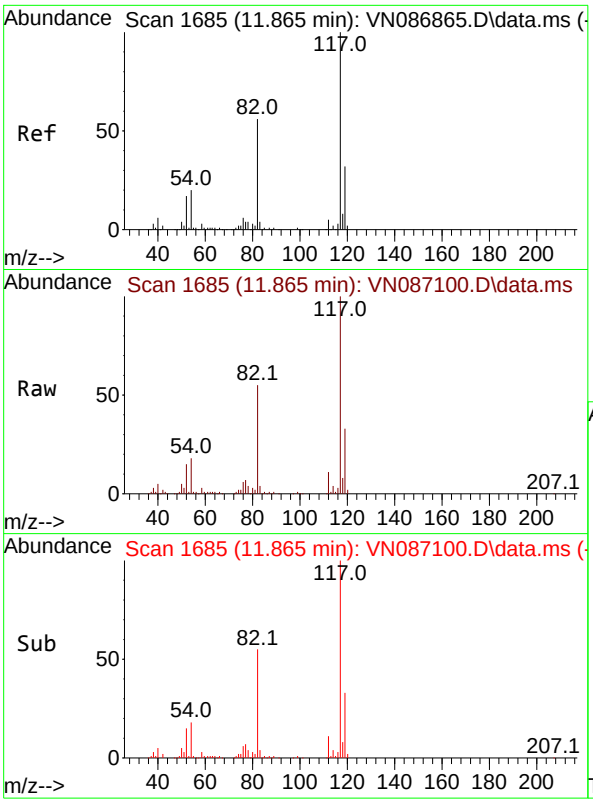


#62
4-Bromofluorobenzene
Concen: 47.149 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 95 Resp: 114266

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	141.8
176	69.3	0.0	132.6

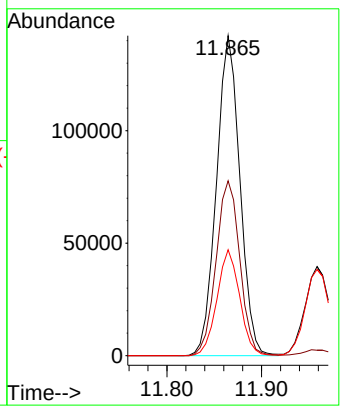




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:117 Resp: 24527

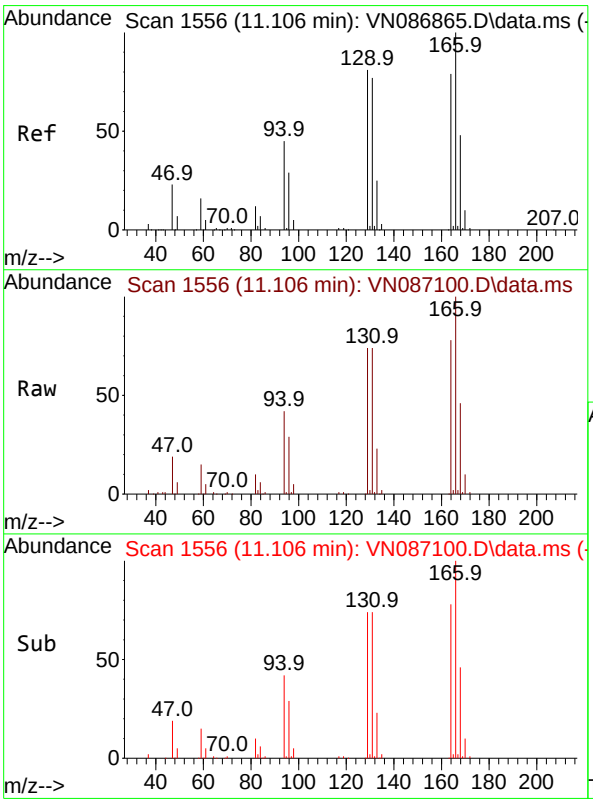
Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.6	67.0
119	33.1	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

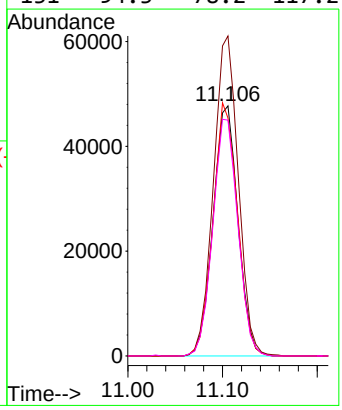
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

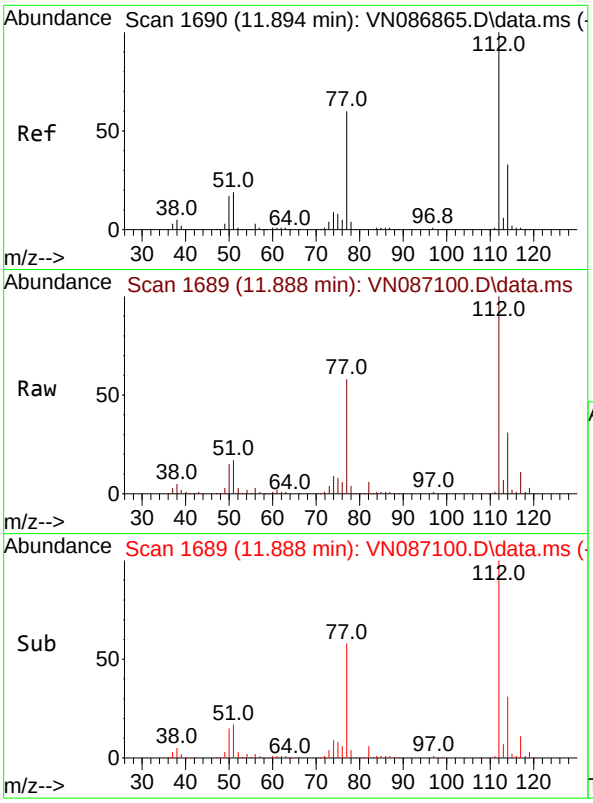


#64
Tetrachloroethene
Concen: 56.223 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:164 Resp: 87272

Ion	Ratio	Lower	Upper
164	100		
166	127.9	101.8	152.8
129	95.1	83.0	124.4
131	94.3	78.2	117.2

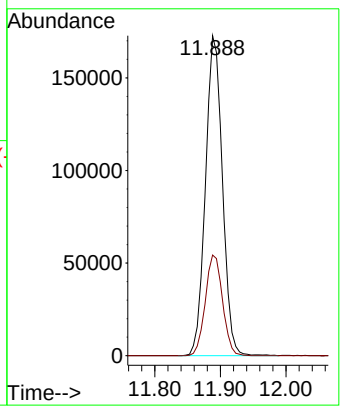




#65
Chlorobenzene
Concen: 57.431 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:112 Resp: 31067

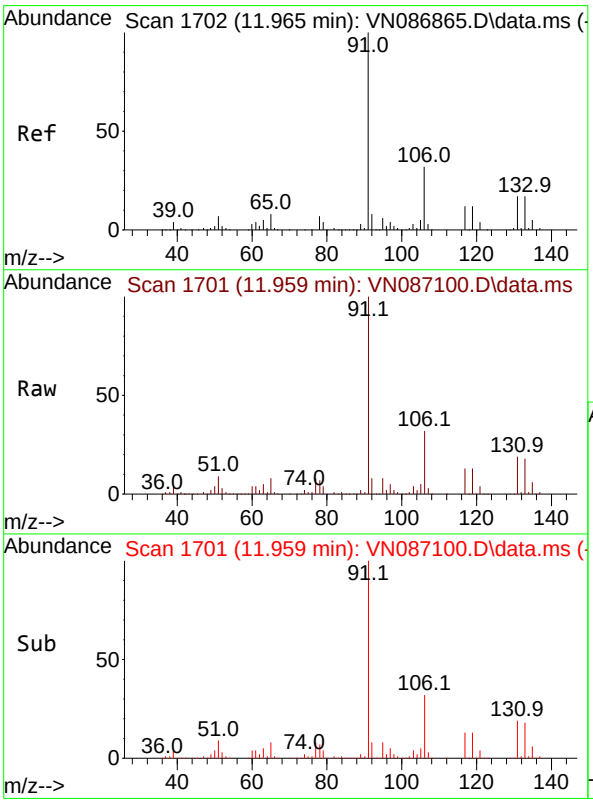
Ion	Ratio	Lower	Upper
112	100		
114	31.4	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

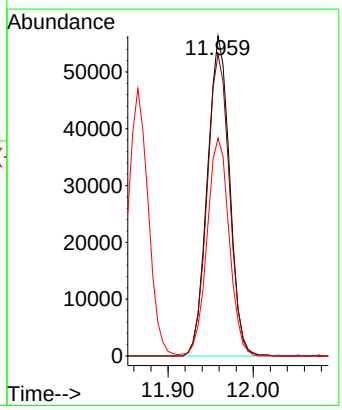
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

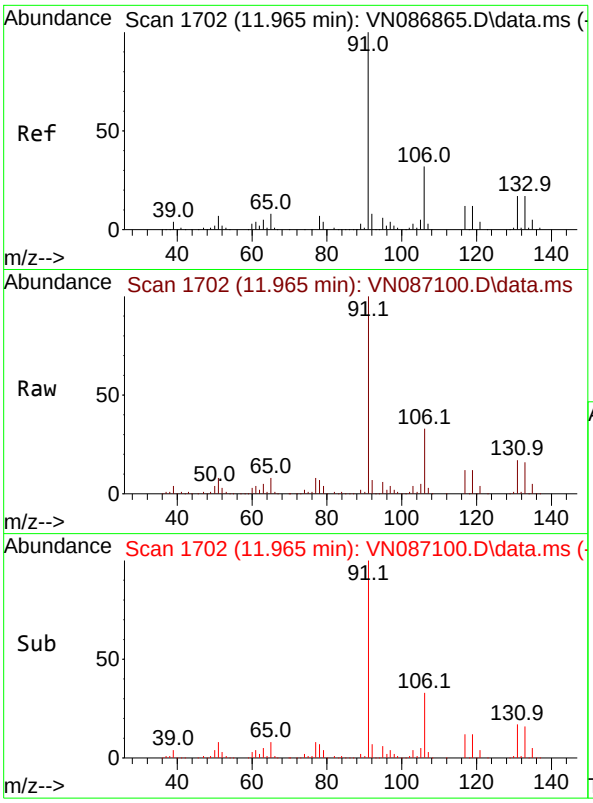


#66
1,1,1,2-Tetrachloroethane
Concen: 58.485 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:131 Resp: 101699

Ion	Ratio	Lower	Upper
131	100		
133	95.0	48.3	144.8
119	68.1	34.0	101.8

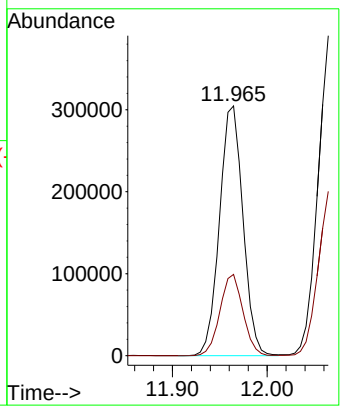




#67
Ethyl Benzene
Concen: 56.340 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 91 Resp: 52496

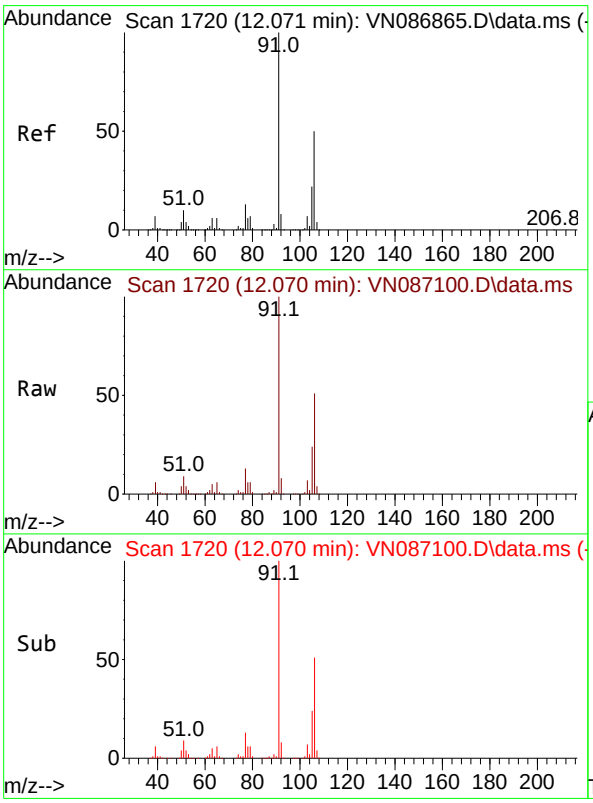
Ion	Ratio	Lower	Upper
91	100		
106	32.6	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

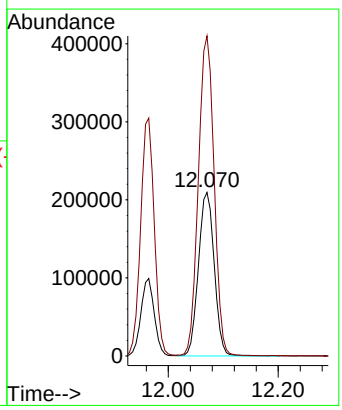
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

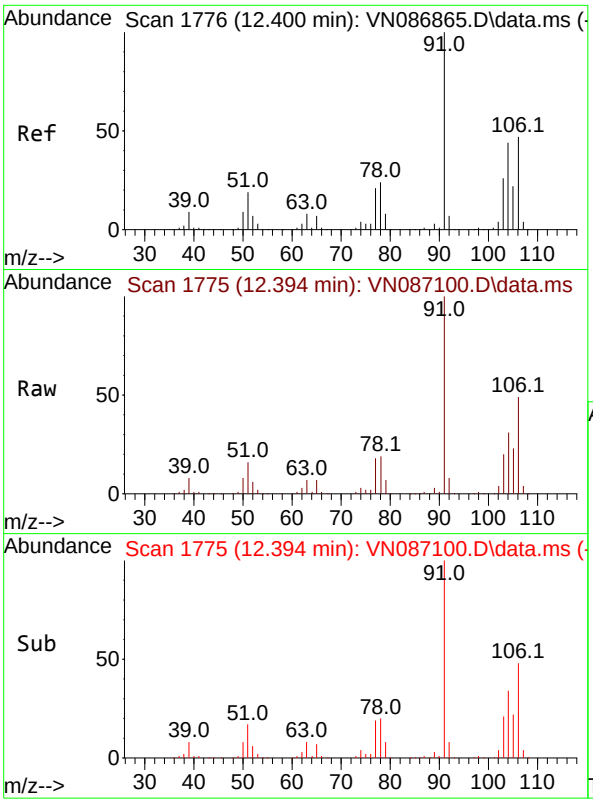


#68
m/p-Xylenes
Concen: 117.113 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:106 Resp: 417726

Ion	Ratio	Lower	Upper
106	100		
91	195.4	159.4	239.0

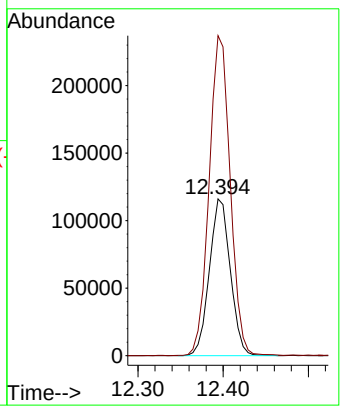




#69
o-Xylene
Concen: 57.962 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:106 Resp: 19800

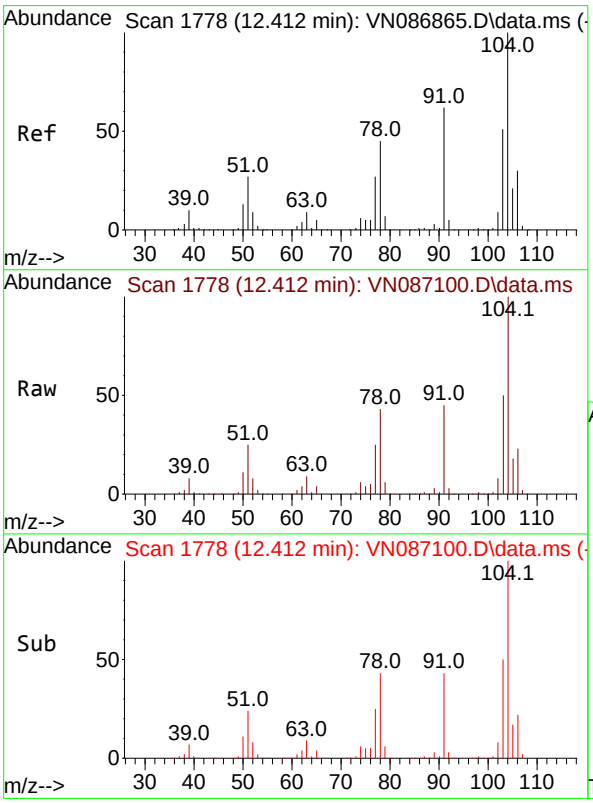
Ion	Ratio	Lower	Upper
106	100		
91	205.7	106.1	318.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

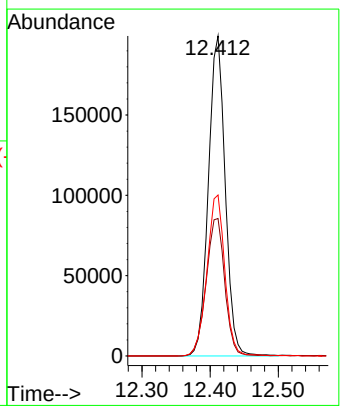
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

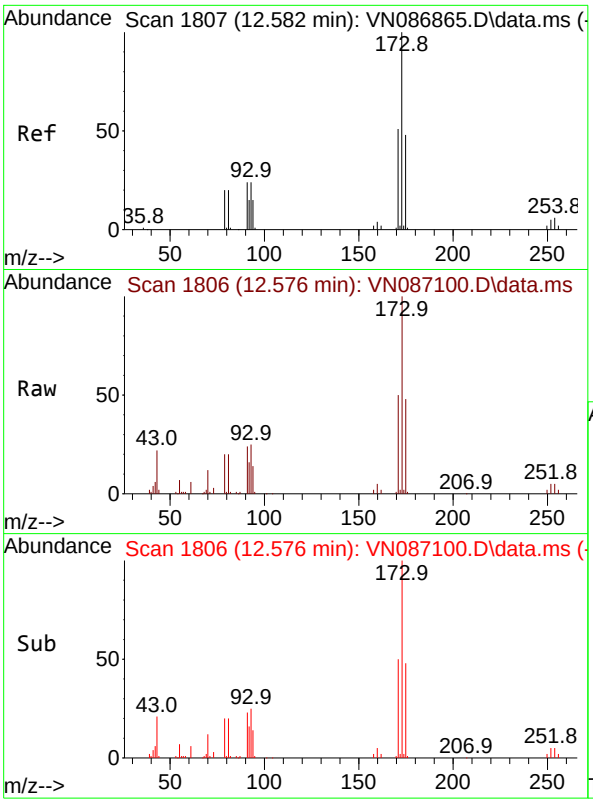


#70
Styrene
Concen: 58.606 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:104 Resp: 342586

Ion	Ratio	Lower	Upper
104	100		
78	47.4	38.5	57.7
103	53.6	43.1	64.7





#71
Bromoform
Concen: 61.270 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

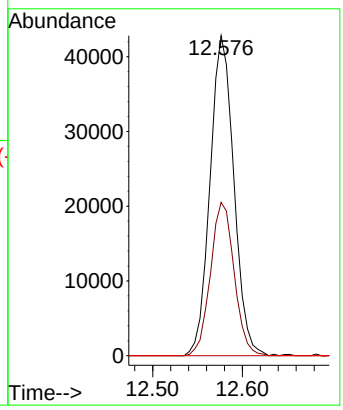
Tgt Ion:173 Resp: 7894

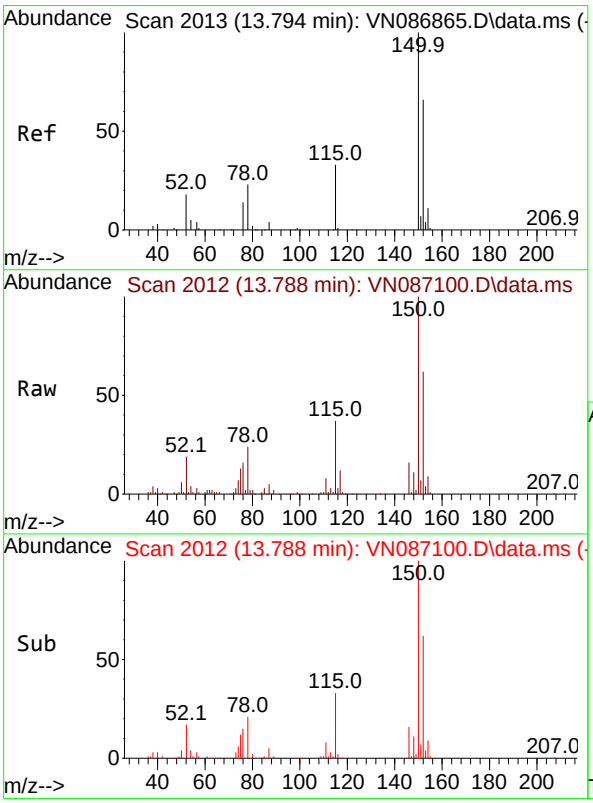
Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.1	72.4
254	0.0	0.0	0.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

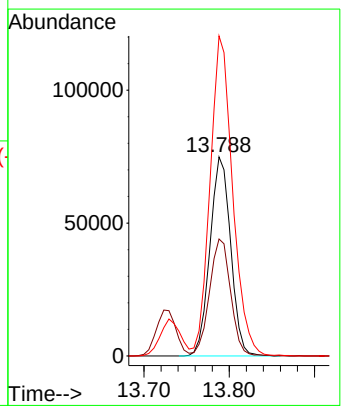


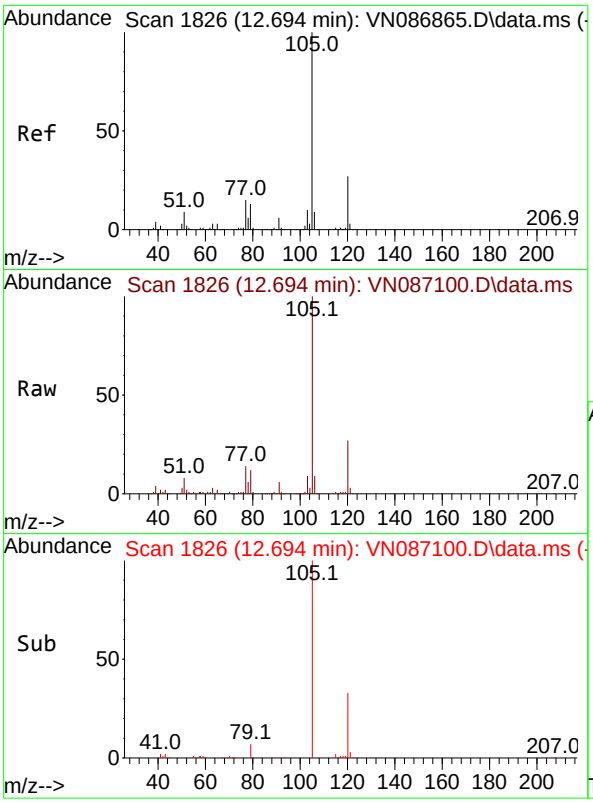


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:152 Resp: 126484

Ion	Ratio	Lower	Upper
152	100		
115	60.1	30.1	90.5
150	175.4	0.0	345.0

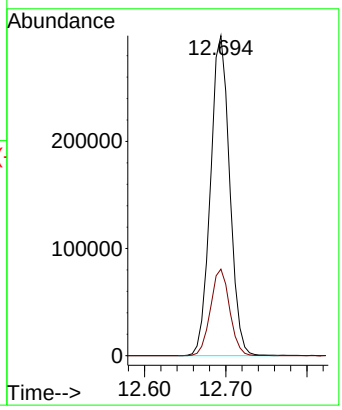




#73
Isopropylbenzene
Concen: 53.235 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:105 Resp: 49053

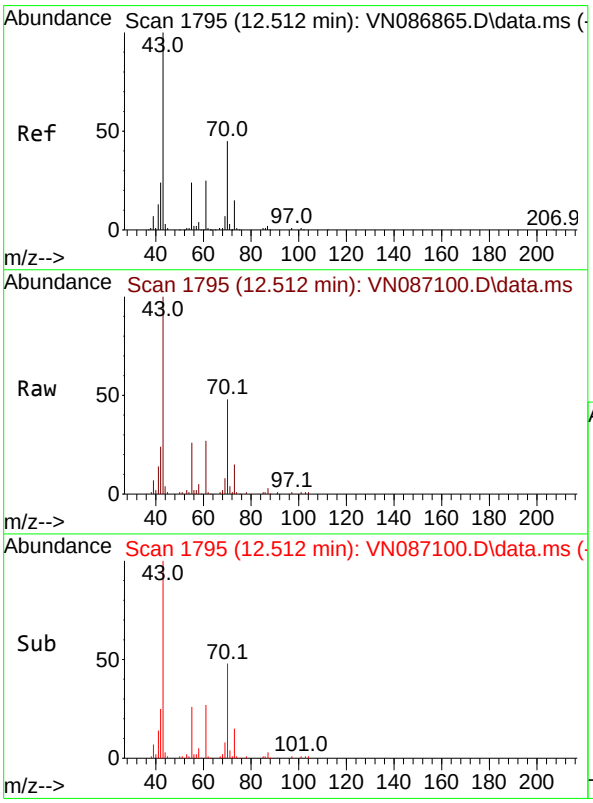
Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

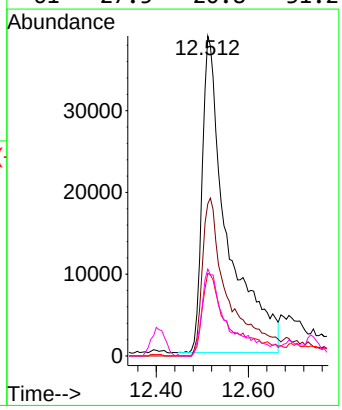
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

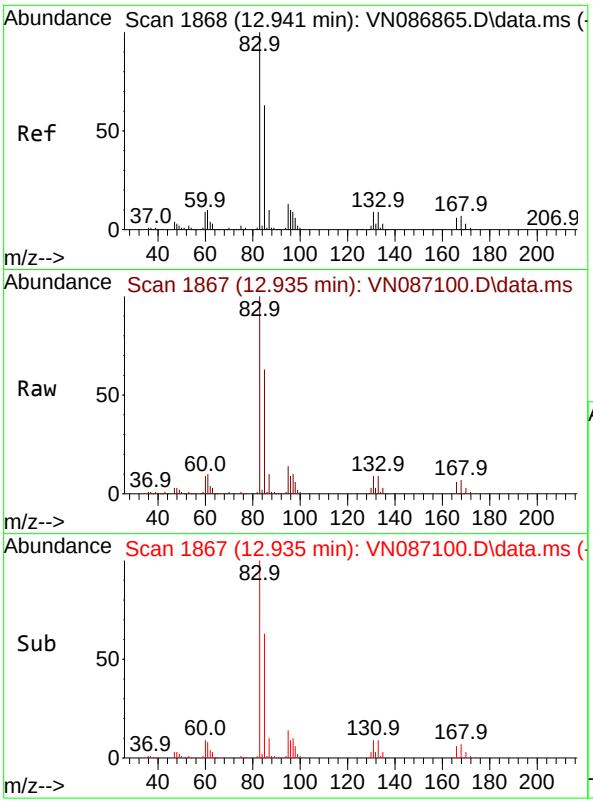


#74
N-amyl acetate
Concen: 45.622 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 43 Resp: 146899

Ion	Ratio	Lower	Upper
43	100		
70	51.7	37.6	56.4
55	28.8	19.0	28.6#
61	27.5	20.8	31.2

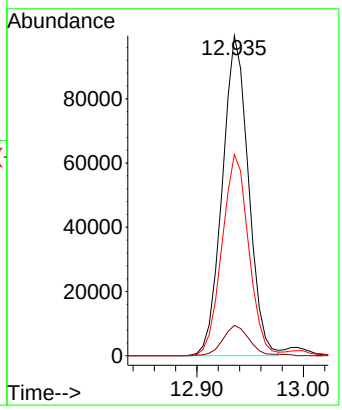




#75
1,1,2,2-Tetrachloroethane
Concen: 54.402 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 83 Resp: 16982

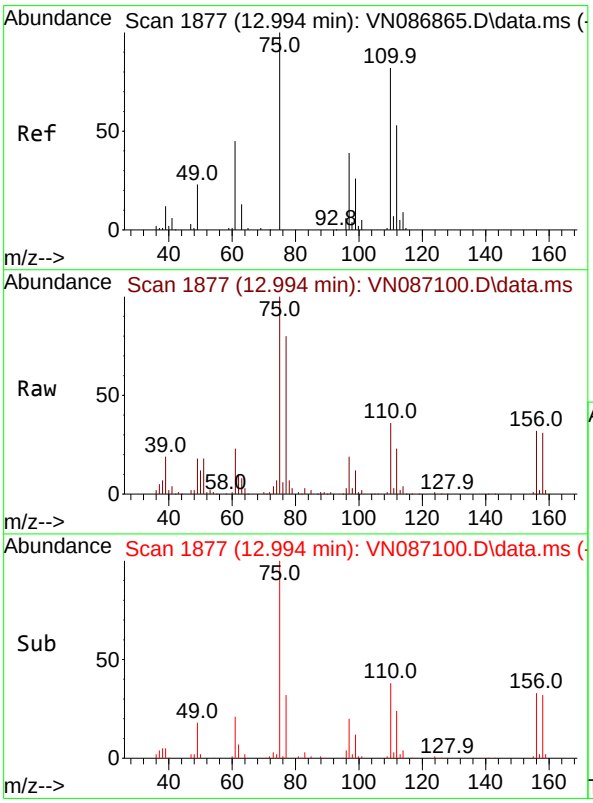
Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.9	14.7
85	64.2	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

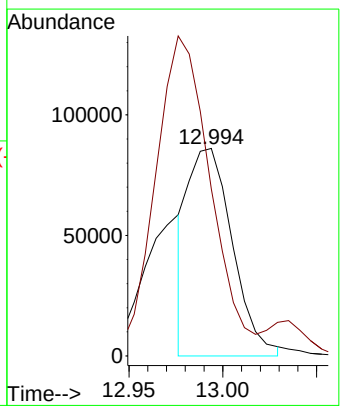
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

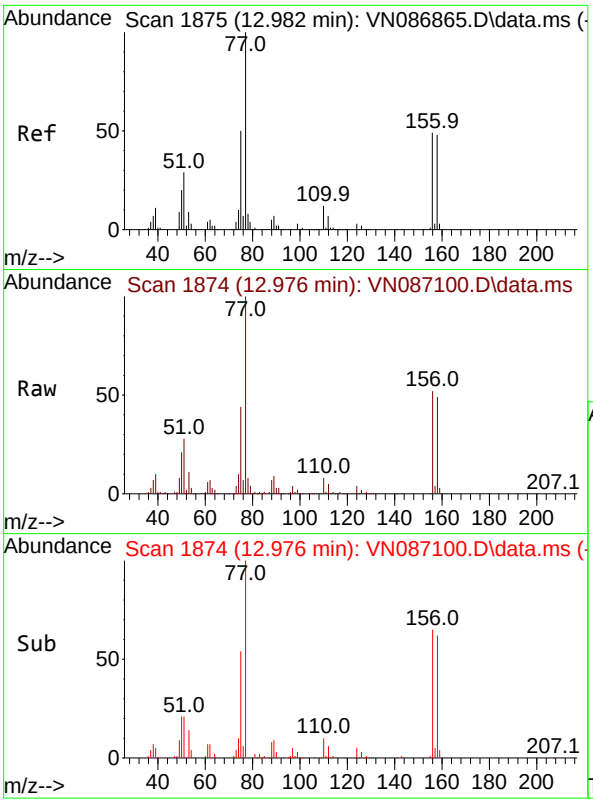


#76
1,2,3-Trichloropropane
Concen: 47.004 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 75 Resp: 141322

Ion	Ratio	Lower	Upper
75	100		
77	192.7	79.3	237.9





#77
Bromobenzene
Concen: 56.782 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

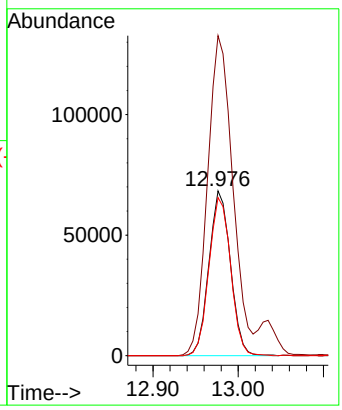
Tgt Ion:156 Resp: 11999

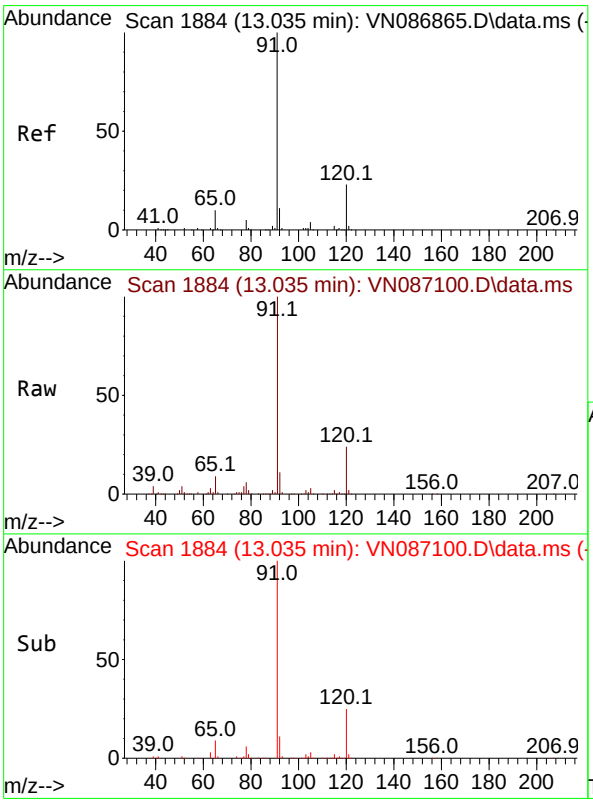
Ion	Ratio	Lower	Upper
156	100		
77	226.9	117.7	353.1
158	96.7	48.1	144.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

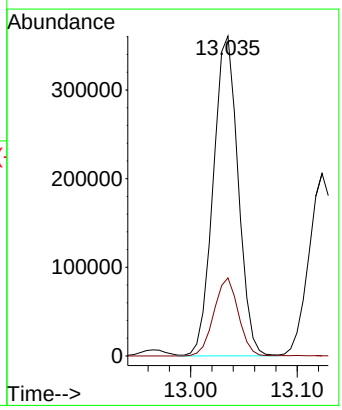


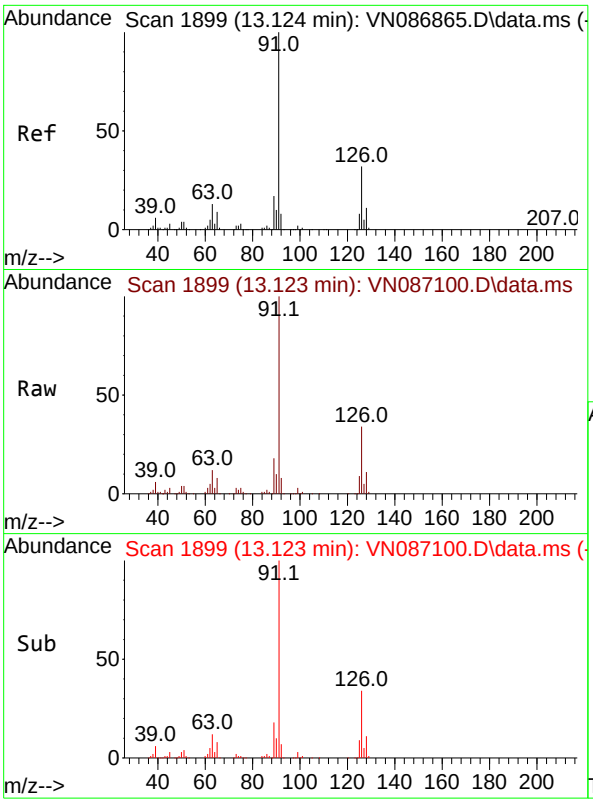


#78
n-propylbenzene
Concen: 52.332 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 91 Resp: 586015

Ion	Ratio	Lower	Upper
91	100		
120	23.9	11.4	34.2





#79
2-Chlorotoluene
Concen: 52.556 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

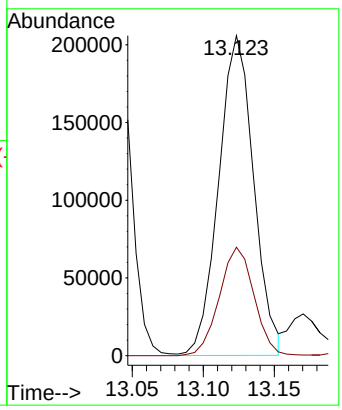
Tgt Ion: 91 Resp: 35294

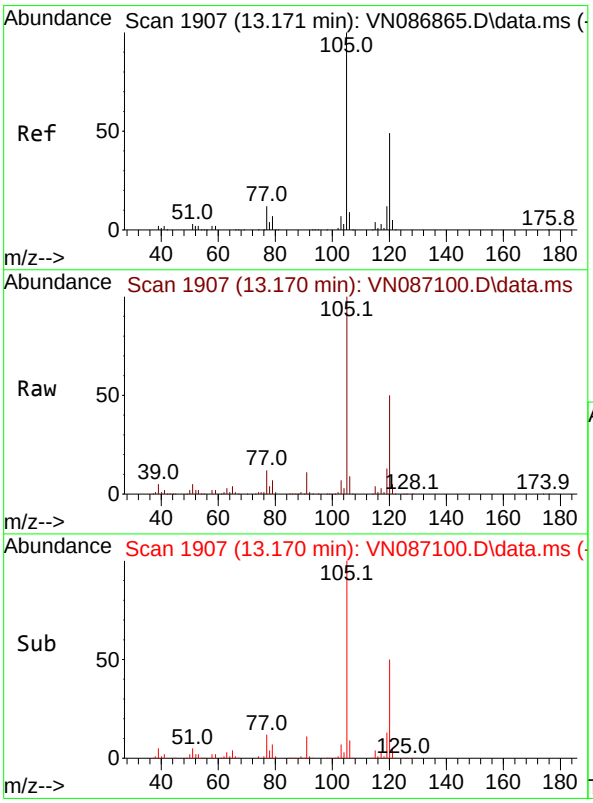
Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.2	48.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

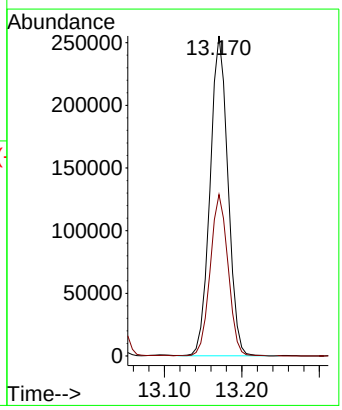


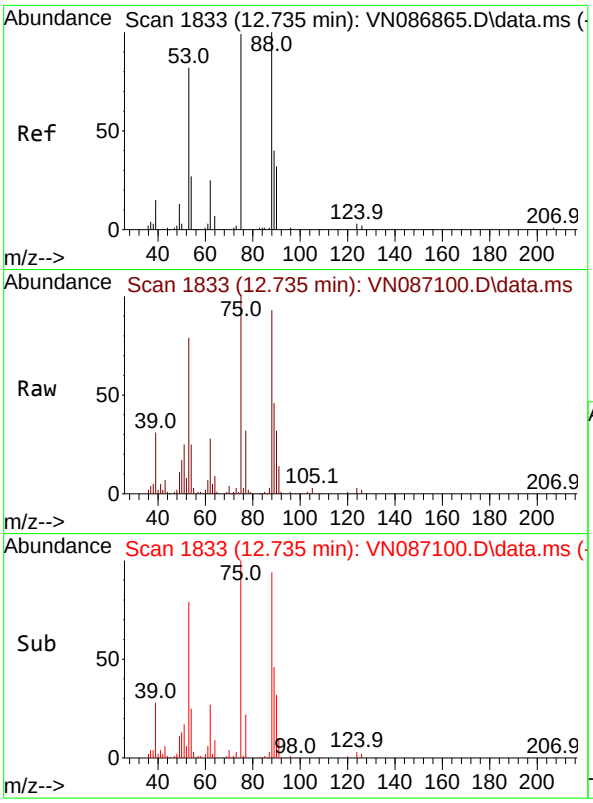


#80
1,3,5-Trimethylbenzene
Concen: 53.568 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:105 Resp: 407528

Ion	Ratio	Lower	Upper
105	100		
120	50.5	24.9	74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 50.097 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

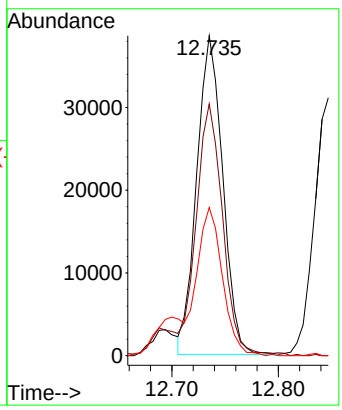
Tgt Ion: 75 Resp: 6543

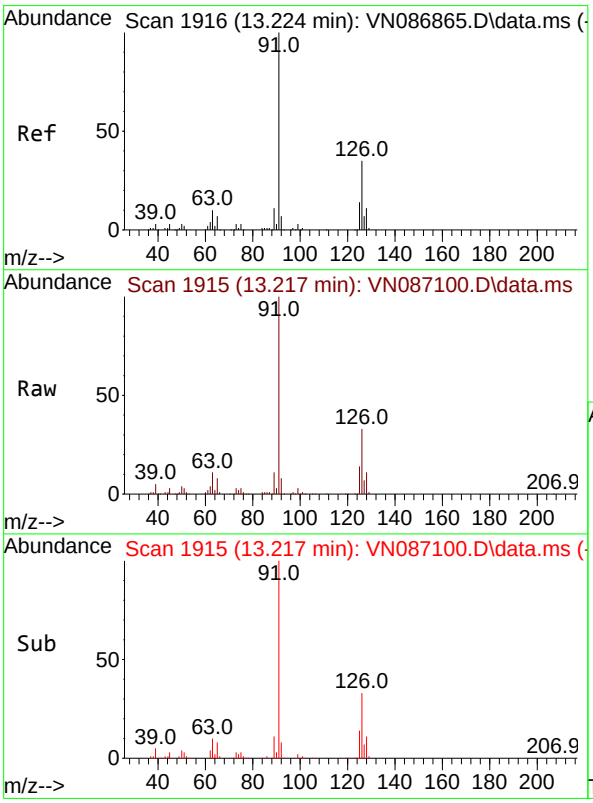
Ion	Ratio	Lower	Upper
75	100		
53	80.6	66.6	99.8
89	45.5	36.7	55.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

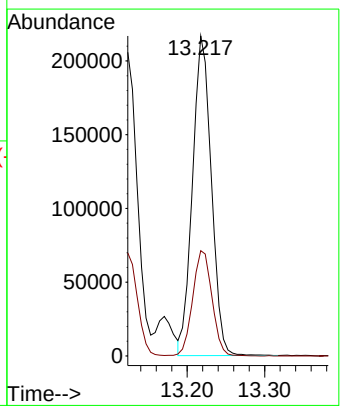


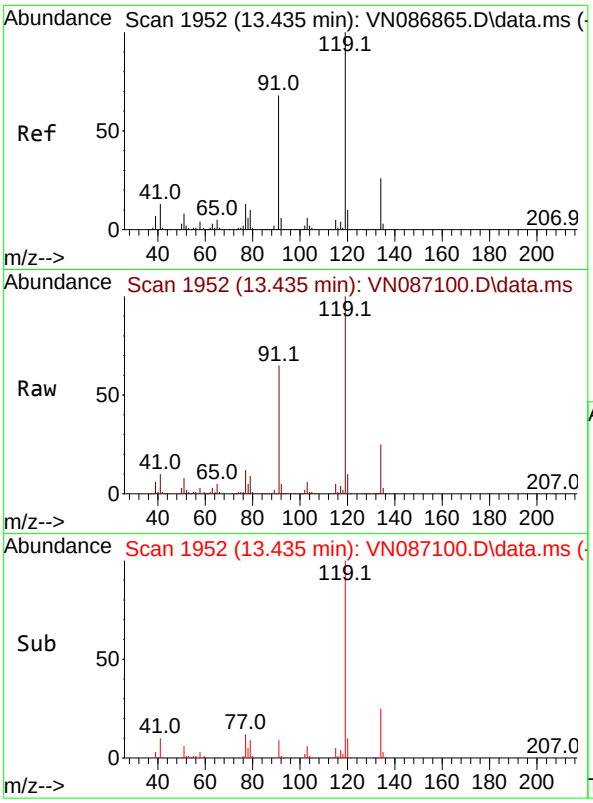


#82
4-Chlorotoluene
Concen: 53.692 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 91 Resp: 364837

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.7	50.1

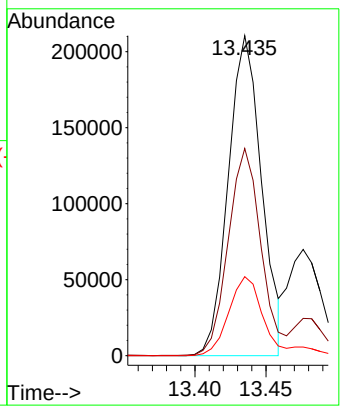




#83
tert-Butylbenzene
Concen: 49.305 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:119 Resp: 34335

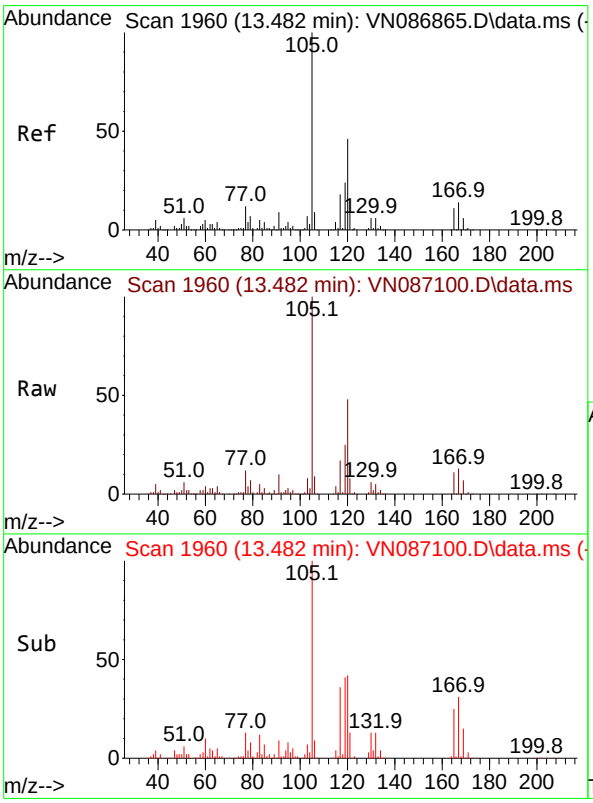
Ion	Ratio	Lower	Upper
119	100		
91	64.3	32.1	96.5
134	26.9	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

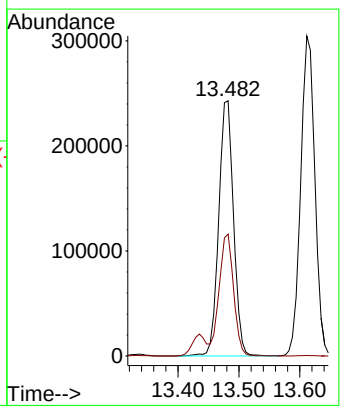
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

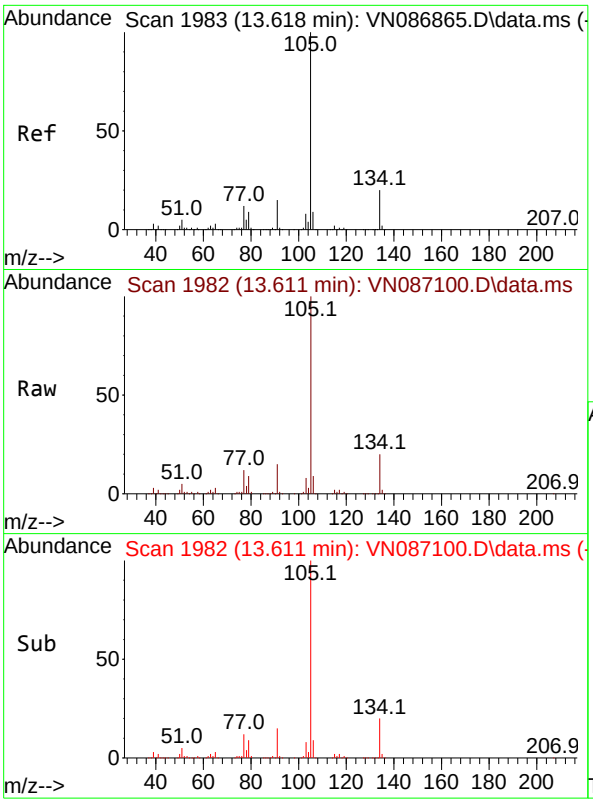


#84
1,2,4-Trimethylbenzene
Concen: 53.720 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:105 Resp: 409813

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.2	69.6

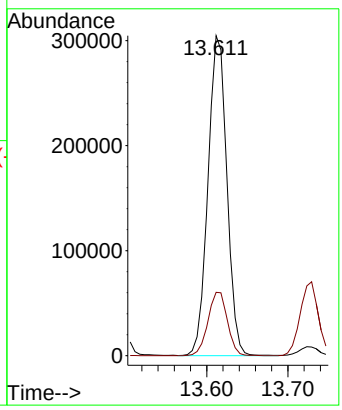




#85
sec-Butylbenzene
Concen: 48.691 ug/l
RT: 13.611 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:105 Resp: 49241

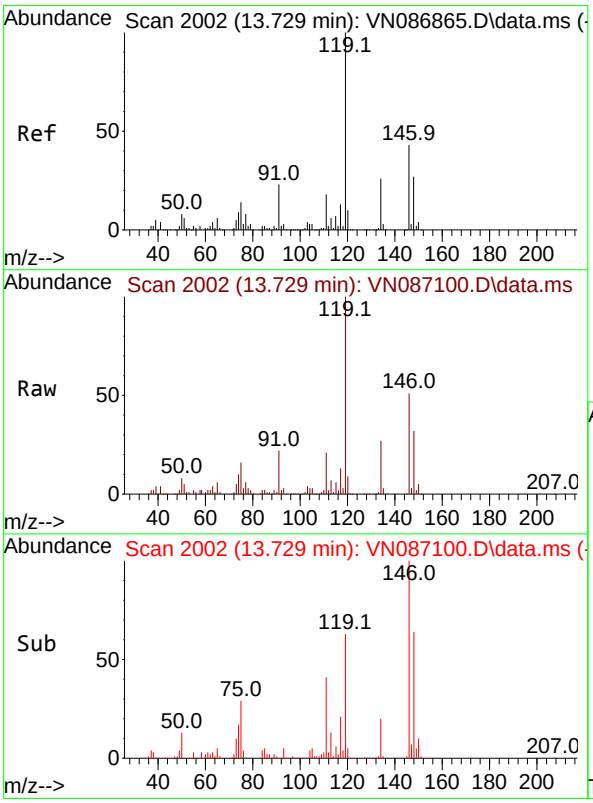
Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.0	30.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

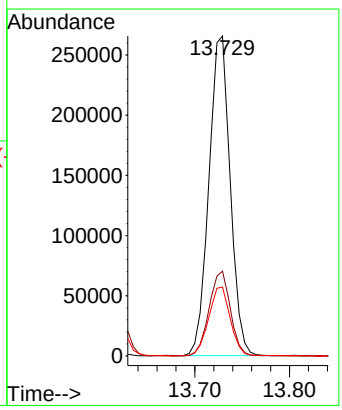
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

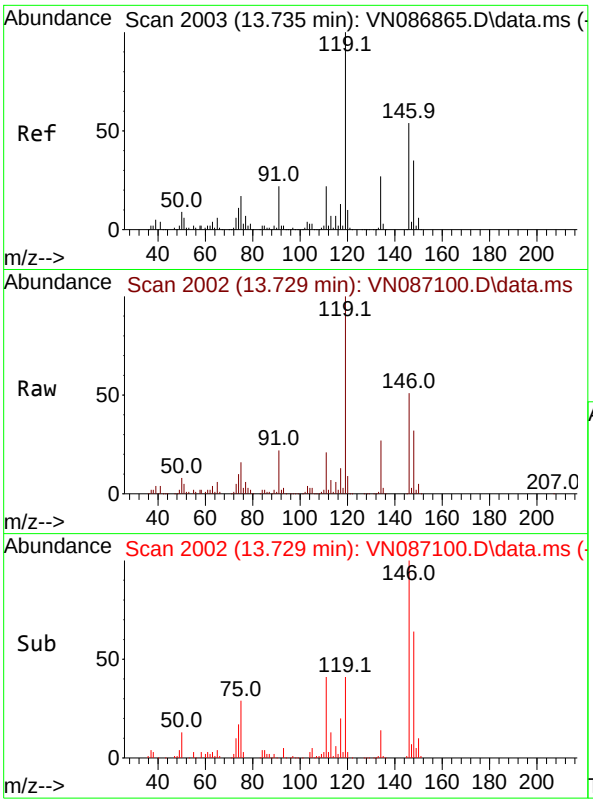


#86
p-Isopropyltoluene
Concen: 49.610 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:119 Resp: 414725

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.5	40.4
91	22.1	11.5	34.4

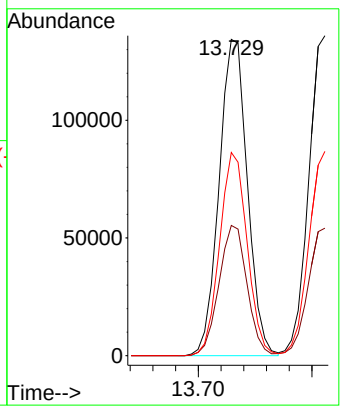




#87
1,3-Dichlorobenzene
Concen: 55.899 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:146 Resp: 23240

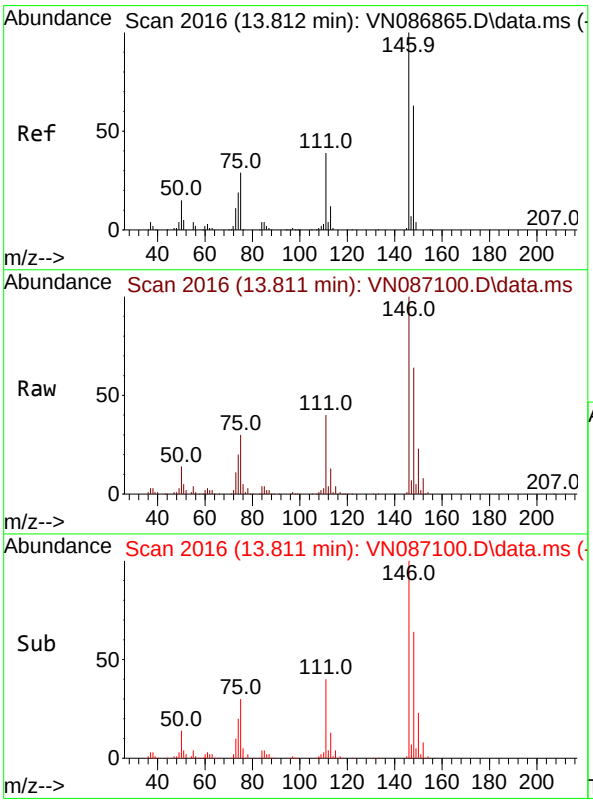
Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.9	62.8
148	62.6	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

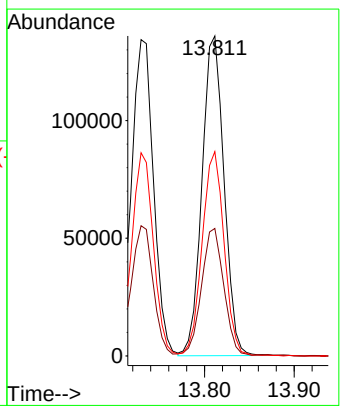
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

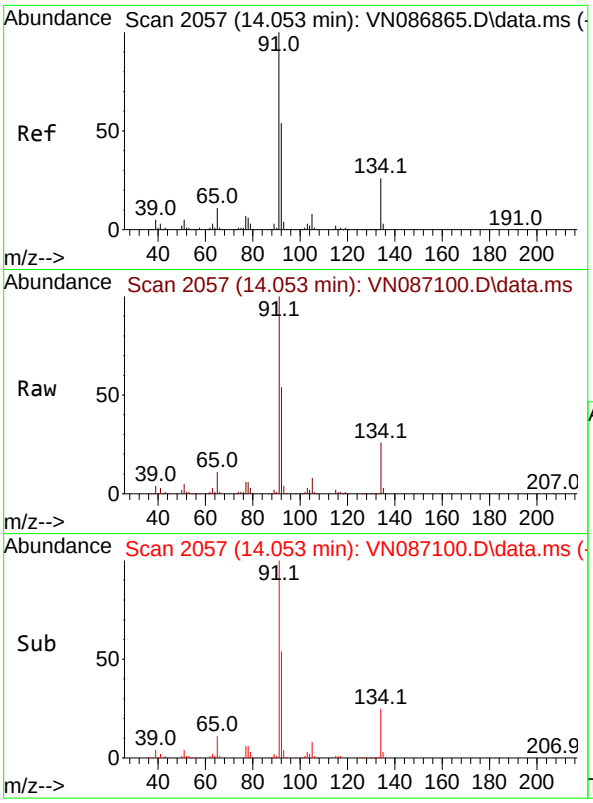


#88
1,4-Dichlorobenzene
Concen: 54.637 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:146 Resp: 231597

Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.9	59.7
148	63.9	31.8	95.4





#89
n-Butylbenzene
Concen: 45.078 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

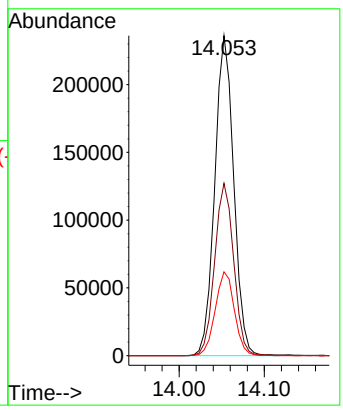
Tgt Ion: 91 Resp: 36501

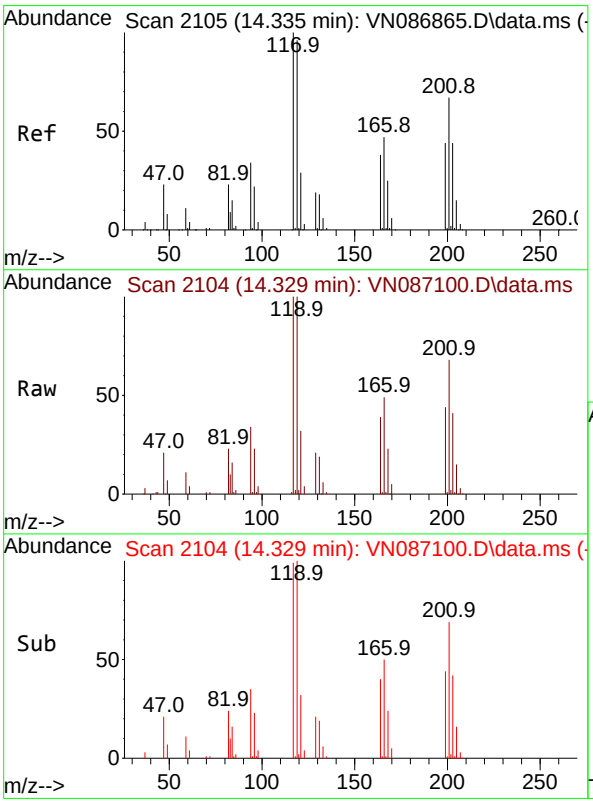
Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.5	82.4
134	26.5	13.0	39.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

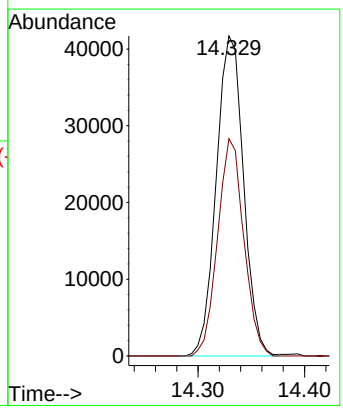


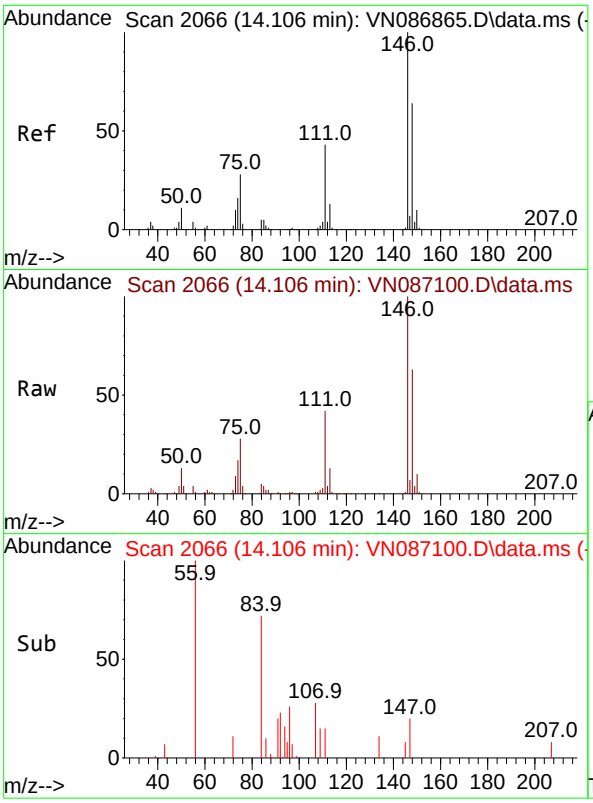


#90
Hexachloroethane
Concen: 52.332 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:117 Resp: 74155

Ion	Ratio	Lower	Upper
117	100		
201	65.2	33.2	99.6

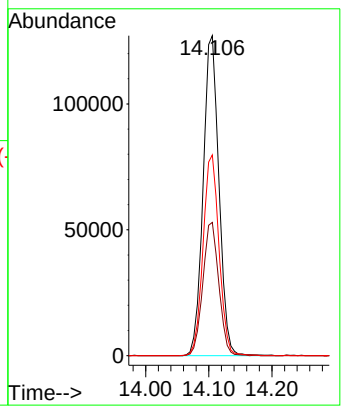




#91
1,2-Dichlorobenzene
Concen: 55.265 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:146 Resp: 22075

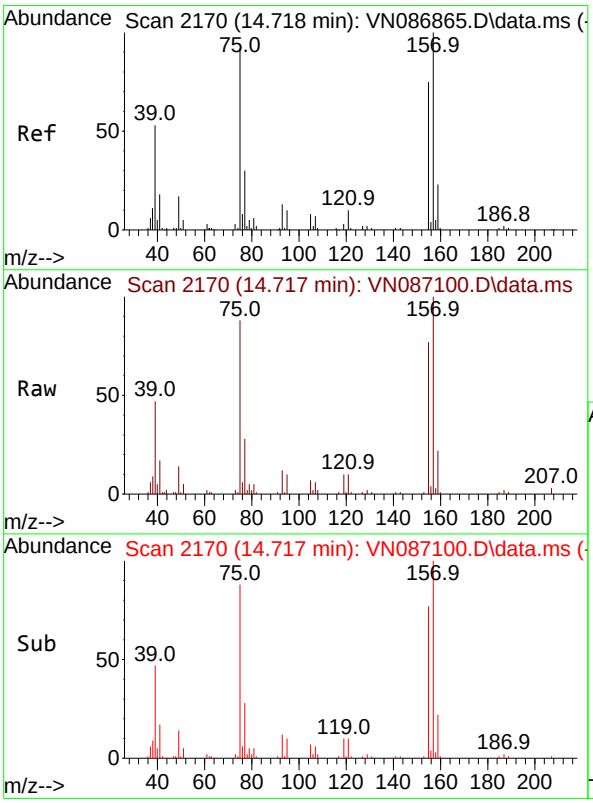
Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.6	64.6
148	63.5	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

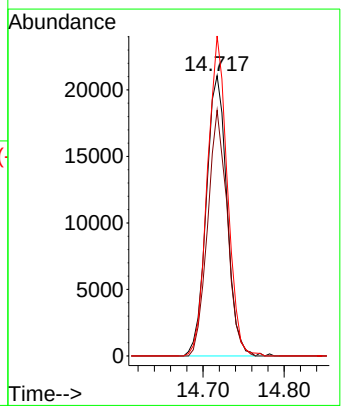
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

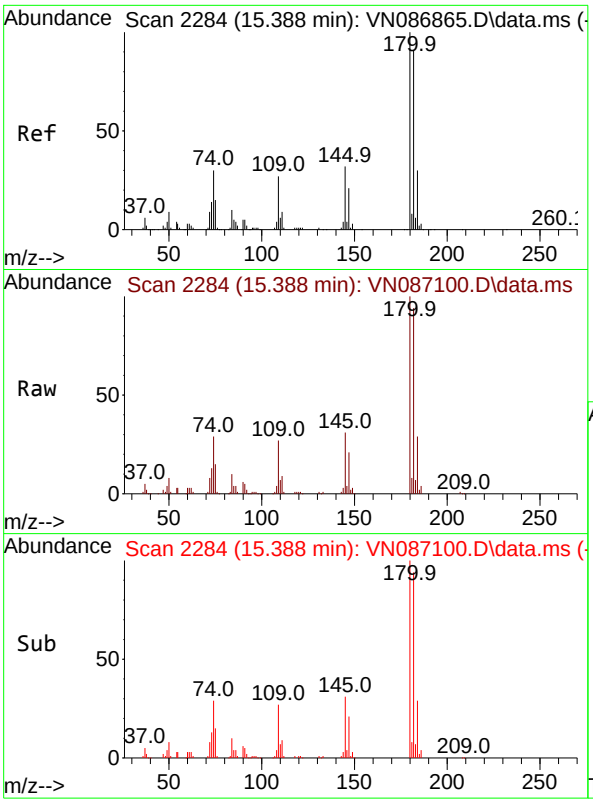


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.901 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 75 Resp: 37254

Ion	Ratio	Lower	Upper
75	100		
155	83.1	41.1	123.4
157	110.0	52.7	158.1





#93
1,2,4-Trichlorobenzene
Concen: 47.138 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

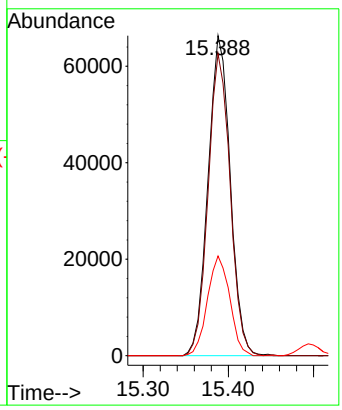
Tgt Ion:180 Resp: 12023

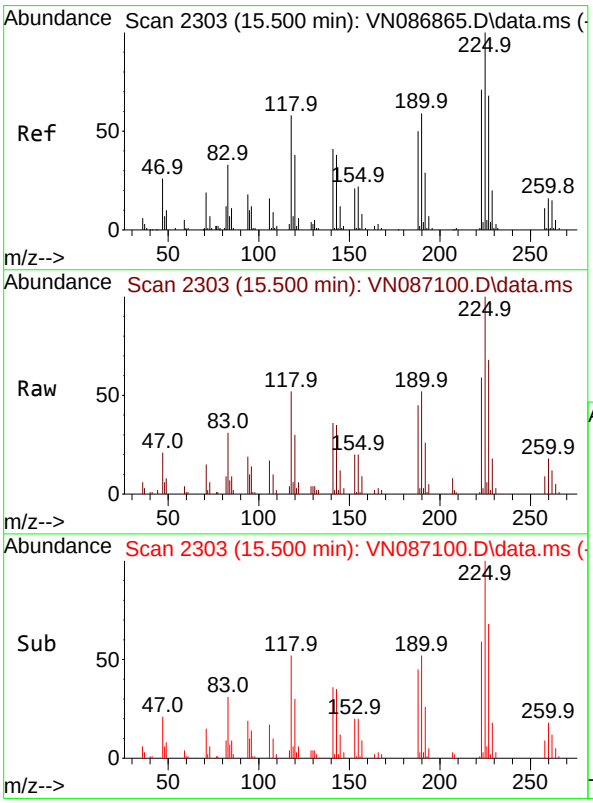
Ion	Ratio	Lower	Upper
180	100		
182	93.6	46.9	140.7
145	31.3	16.0	47.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

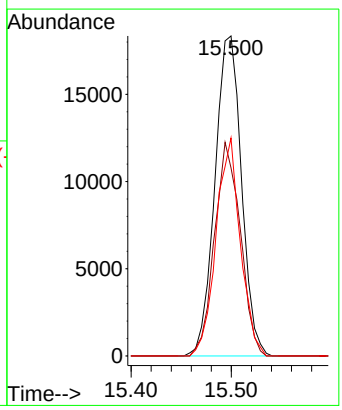


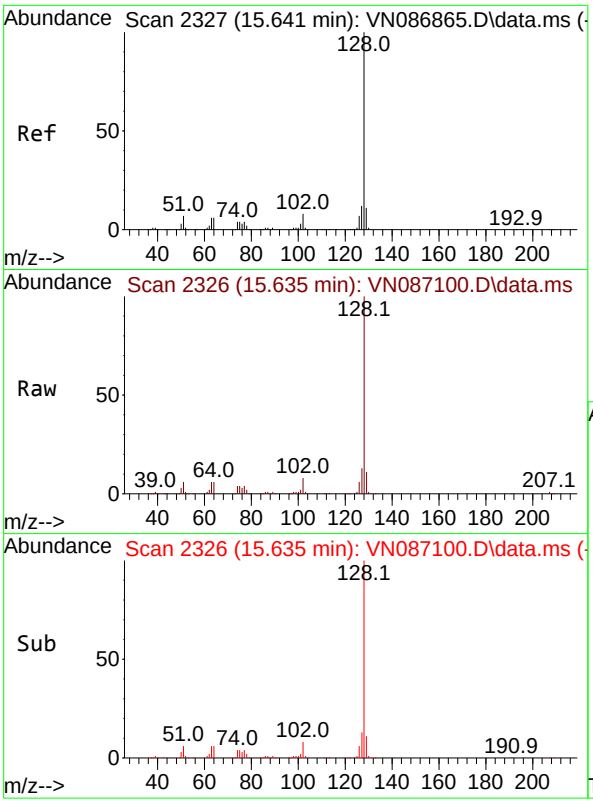


#94
Hexachlorobutadiene
Concen: 35.548 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:225 Resp: 33782

Ion	Ratio	Lower	Upper
225	100		
223	64.8	33.5	100.4
227	62.2	31.1	93.5

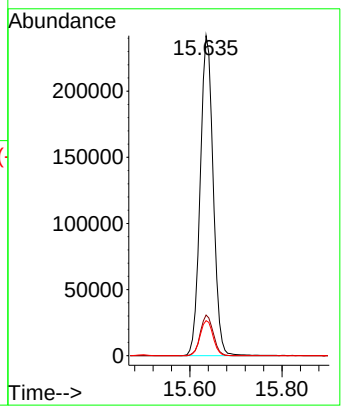




#95
Naphthalene
Concen: 50.063 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:128 Resp: 47531

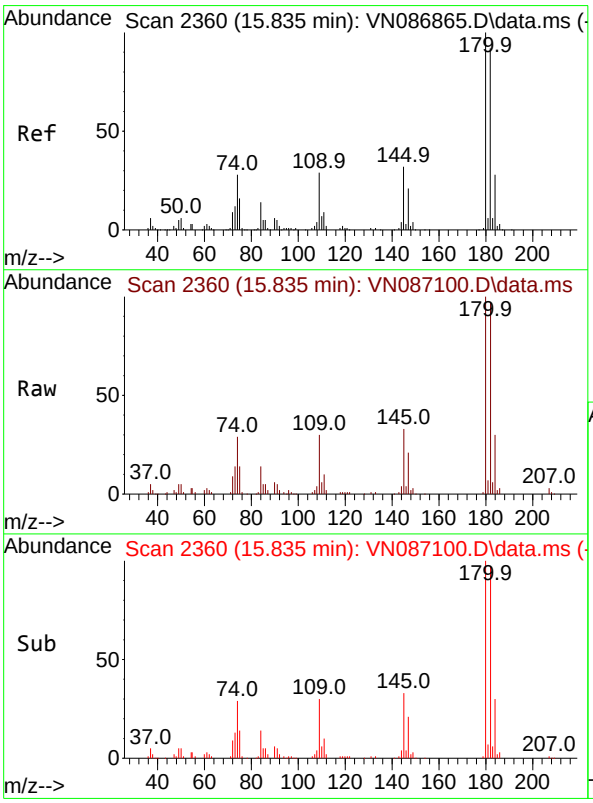
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

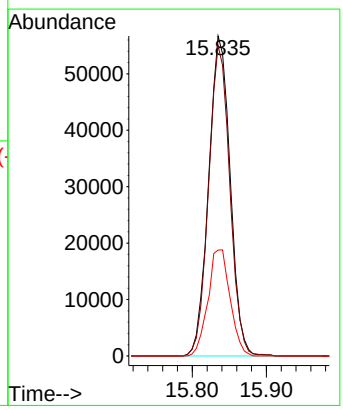
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 45.251 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:180 Resp: 114676

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.0	141.0
145	34.1	16.6	49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	76	0.00
2	T	Dichlorodifluoromethane	0.499	0.585	-17.2	88	0.00
3	P	Chloromethane	0.644	0.634	1.6	80	0.00
4	C	Vinyl Chloride	0.664	0.815	-22.7#	96	0.00
5	T	Bromomethane	0.372	0.402	-8.1	85	0.00
6	T	Chloroethane	0.429	0.507	-18.2	94	0.00
7	T	Trichlorofluoromethane	0.868	1.014	-16.8	92	0.00
8	T	Diethyl Ether	0.378	0.426	-12.7	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.545	0.630	-15.6	92	0.00
10	T	Methyl Iodide	0.707	0.503	28.9#	56	0.00
11	T	Tert butyl alcohol	0.182	0.168	7.7	73	-0.01
12	CM	1,1-Dichloroethene	0.557	0.654	-17.4#	93	0.01
13	T	Acrolein	0.057	0.096	-68.4#	161#	0.00
14	T	Allyl chloride	0.923	0.950	-2.9	83	0.00
15	T	Acrylonitrile	0.425	0.448	-5.4	83	0.00
16	T	Acetone	0.355	0.363	-2.3	85	0.00
17	T	Carbon Disulfide	1.539	1.886	-22.5	100	0.00
18	T	Methyl Acetate	1.035	0.948	8.4	73	0.00
19	T	Methyl tert-butyl Ether	2.015	2.213	-9.8	87	0.00
20	T	Methylene Chloride	0.665	0.738	-11.0	92	0.00
21	T	trans-1,2-Dichloroethene	0.619	0.703	-13.6	94	0.00
22	T	Diisopropyl ether	1.945	2.047	-5.2	84	0.00
23	T	Vinyl Acetate	1.644	1.797	-9.3	86	0.00
24	P	1,1-Dichloroethane	1.120	1.266	-13.0	90	0.00
25	T	2-Butanone	0.577	0.562	2.6	77	0.00
26	T	2,2-Dichloropropane	0.871	1.089	-25.0#	91	0.00
27	T	cis-1,2-Dichloroethene	0.740	0.835	-12.8	90	0.00
28	T	Bromochloromethane	0.550	0.517	6.0	84	0.00
29	T	Tetrahydrofuran	0.376	0.369	1.9	78	0.00
30	C	Chloroform	1.118	1.245	-11.4#	89	0.00
31	T	Cyclohexane	1.086	1.122	-3.3	85	0.00
32	T	1,1,1-Trichloroethane	0.951	1.077	-13.2	91	0.00
33	S	1,2-Dichloroethane-d4	0.669	0.604	9.7	91	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	73	0.00
35	S	Dibromofluoromethane	0.296	0.296	0.0	99	0.00
36	T	1,1-Dichloropropene	0.442	0.523	-18.3	92	0.00
37	T	Ethyl Acetate	0.562	0.595	-5.9	81	-0.01
38	T	Carbon Tetrachloride	0.433	0.512	-18.2	92	0.00
39	T	Methylcyclohexane	0.605	0.600	0.8	77	0.00
40	TM	Benzene	1.444	1.656	-14.7	90	0.00
41	T	Methacrylonitrile	0.316	0.323	-2.2	78	0.00
42	TM	1,2-Dichloroethane	0.438	0.494	-12.8	88	0.00
43	T	Isopropyl Acetate	0.902	0.918	-1.8	79	0.00
44	TM	Trichloroethene	0.342	0.404	-18.1	91	0.00
45	C	1,2-Dichloropropane	0.351	0.401	-14.2#	89	0.00
46	T	Dibromomethane	0.233	0.276	-18.5	92	0.00
47	T	Bromodichloromethane	0.480	0.550	-14.6	88	0.00
48	T	Methyl methacrylate	0.415	0.422	-1.7	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.008	0.008	0.0	74	0.00
50	S	Toluene-d8	1.173	1.094	6.7	93	0.00
51	T	4-Methyl-2-Pentanone	0.543	0.579	-6.6	79	0.00
52	CM	Toluene	0.882	1.023	-16.0#	90	0.00
53	T	t-1,3-Dichloropropene	0.537	0.629	-17.1	89	0.00
54	T	cis-1,3-Dichloropropene	0.574	0.666	-16.0	89	0.00
55	T	1,1,2-Trichloroethane	0.340	0.388	-14.1	88	0.00
56	T	Ethyl methacrylate	0.541	0.635	-17.4	84	0.00
57	T	1,3-Dichloropropane	0.589	0.670	-13.8	88	0.00
58	T	2-Chloroethyl Vinyl ether	0.323	0.368	-13.9	98	0.00
59	T	2-Hexanone	0.350	0.383	-9.4	76	0.00
60	T	Dibromochloromethane	0.354	0.422	-19.2	91	0.00
61	T	1,2-Dibromoethane	0.348	0.397	-14.1	89	0.00
62	S	4-Bromofluorobenzene	0.436	0.411	5.7	93	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	74	0.00
64	T	Tetrachloroethene	0.316	0.356	-12.7	89	0.00
65	PM	Chlorobenzene	1.103	1.267	-14.9	91	0.00
66	T	1,1,1,2-Tetrachloroethane	0.354	0.415	-17.2	91	0.00
67	C	Ethyl Benzene	1.899	2.140	-12.7#	88	0.00
68	T	m/p-Xylenes	0.727	0.852	-17.2	90	0.00
69	T	o-Xylene	0.696	0.807	-15.9	88	0.00
70	T	Styrene	1.192	1.397	-17.2	89	0.00
71	P	Bromoform	0.263	0.322	-22.4	90	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	75	0.00
73	T	Isopropylbenzene	3.643	3.878	-6.5	85	0.00
74	T	N-amyl acetate	1.273	1.161	8.8	69	0.00
75	P	1,1,2,2-Tetrachloroethane	1.234	1.343	-8.8	86	0.00
76	T	1,2,3-Trichloropropane	1.189	1.117	6.1	72	0.00
77	T	Bromobenzene	0.835	0.949	-13.7	91	0.00
78	T	n-propylbenzene	4.427	4.633	-4.7	83	0.00
79	T	2-Chlorotoluene	2.655	2.790	-5.1	84	0.00
80	T	1,3,5-Trimethylbenzene	3.007	3.222	-7.1	84	0.00
81	T	trans-1,4-Dichloro-2-butene	0.516	0.517	-0.2	82	0.00
82	T	4-Chlorotoluene	2.686	2.884	-7.4	86	0.00
83	T	tert-Butylbenzene	2.753	2.715	1.4	78	0.00
84	T	1,2,4-Trimethylbenzene	3.016	3.240	-7.4	84	0.00
85	T	sec-Butylbenzene	3.998	3.893	2.6	77	0.00
86	T	p-Isopropyltoluene	3.305	3.279	0.8	78	0.00
87	T	1,3-Dichlorobenzene	1.644	1.837	-11.7	89	0.00
88	T	1,4-Dichlorobenzene	1.676	1.831	-9.2	88	0.00
89	T	n-Butylbenzene	3.201	2.886	9.8	71	0.00
90	T	Hexachloroethane	0.560	0.586	-4.6	82	0.00
91	T	1,2-Dichlorobenzene	1.579	1.745	-10.5	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.295	0.295	0.0	82	0.00
93	T	1,2,4-Trichlorobenzene	1.008	0.951	5.7	74	0.00
94	T	Hexachlorobutadiene	0.376	0.267	29.0#	56	0.00
95	T	Naphthalene	3.753	3.758	-0.1	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	0.907	9.5	72	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	76	0.00
2	T	Dichlorodifluoromethane	50.000	58.637	-17.3	88	0.00
3	P	Chloromethane	50.000	49.257	1.5	80	0.00
4	C	Vinyl Chloride	50.000	61.379	-22.8#	96	0.00
5	T	Bromomethane	50.000	54.137	-8.3	85	0.00
6	T	Chloroethane	50.000	59.139	-18.3	94	0.00
7	T	Trichlorofluoromethane	50.000	58.455	-16.9	92	0.00
8	T	Diethyl Ether	50.000	56.344	-12.7	89	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	57.825	-15.7	92	0.00
10	T	Methyl Iodide	50.000	35.624	28.8#	56	0.00
11	T	Tert butyl alcohol	250.000	231.693	7.3	73	-0.01
12	CM	1,1-Dichloroethene	50.000	58.764	-17.5#	93	0.01
13	T	Acrolein	250.000	418.463	-67.4#	161	0.00
14	T	Allyl chloride	50.000	51.477	-3.0	83	0.00
15	T	Acrylonitrile	250.000	263.851	-5.5	83	0.00
16	T	Acetone	250.000	255.751	-2.3	85	0.00
17	T	Carbon Disulfide	50.000	61.273	-22.5	100	0.00
18	T	Methyl Acetate	50.000	45.799	8.4	73	0.00
19	T	Methyl tert-butyl Ether	50.000	54.911	-9.8	87	0.00
20	T	Methylene Chloride	50.000	55.493	-11.0	92	0.00
21	T	trans-1,2-Dichloroethene	50.000	56.750	-13.5	94	0.00
22	T	Diisopropyl ether	50.000	52.602	-5.2	84	0.00
23	T	Vinyl Acetate	250.000	273.362	-9.3	86	0.00
24	P	1,1-Dichloroethane	50.000	56.526	-13.1	90	0.00
25	T	2-Butanone	250.000	243.615	2.6	77	0.00
26	T	2,2-Dichloropropane	50.000	62.543	-25.1#	91	0.00
27	T	cis-1,2-Dichloroethene	50.000	56.366	-12.7	90	0.00
28	T	Bromochloromethane	50.000	46.941	6.1	84	0.00
29	T	Tetrahydrofuran	250.000	245.546	1.8	78	0.00
30	C	Chloroform	50.000	55.695	-11.4#	89	0.00
31	T	Cyclohexane	50.000	51.646	-3.3	85	0.00
32	T	1,1,1-Trichloroethane	50.000	56.618	-13.2	91	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.107	9.8	91	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	73	0.00
35	S	Dibromofluoromethane	50.000	49.979	0.0	99	0.00
36	T	1,1-Dichloropropene	50.000	59.187	-18.4	92	0.00
37	T	Ethyl Acetate	50.000	52.938	-5.9	81	-0.01
38	T	Carbon Tetrachloride	50.000	59.026	-18.1	92	0.00
39	T	Methylcyclohexane	50.000	49.607	0.8	77	0.00
40	TM	Benzene	50.000	57.353	-14.7	90	0.00
41	T	Methacrylonitrile	50.000	51.098	-2.2	78	0.00
42	TM	1,2-Dichloroethane	50.000	56.372	-12.7	88	0.00
43	T	Isopropyl Acetate	50.000	50.874	-1.7	79	0.00
44	TM	Trichloroethene	50.000	58.955	-17.9	91	0.00
45	C	1,2-Dichloropropane	50.000	57.050	-14.1#	89	0.00
46	T	Dibromomethane	50.000	59.155	-18.3	92	0.00
47	T	Bromodichloromethane	50.000	57.289	-14.6	88	0.00
48	T	Methyl methacrylate	50.000	50.770	-1.5	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1044.593	-4.5	74	0.00
50	S	Toluene-d8	50.000	46.633	6.7	93	0.00
51	T	4-Methyl-2-Pentanone	250.000	266.633	-6.7	79	0.00
52	CM	Toluene	50.000	57.958	-15.9#	90	0.00
53	T	t-1,3-Dichloropropene	50.000	58.623	-17.2	89	0.00
54	T	cis-1,3-Dichloropropene	50.000	57.936	-15.9	89	0.00
55	T	1,1,2-Trichloroethane	50.000	57.171	-14.3	88	0.00
56	T	Ethyl methacrylate	50.000	58.668	-17.3	84	0.00
57	T	1,3-Dichloropropane	50.000	56.867	-13.7	88	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	284.937	-14.0	98	0.00
59	T	2-Hexanone	250.000	273.673	-9.5	76	0.00
60	T	Dibromochloromethane	50.000	59.583	-19.2	91	0.00
61	T	1,2-Dibromoethane	50.000	57.064	-14.1	89	0.00
62	S	4-Bromofluorobenzene	50.000	47.149	5.7	93	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	74	0.00
64	T	Tetrachloroethene	50.000	56.223	-12.4	89	0.00
65	PM	Chlorobenzene	50.000	57.431	-14.9	91	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	58.485	-17.0	91	0.00
67	C	Ethyl Benzene	50.000	56.340	-12.7#	88	0.00
68	T	m/p-Xylenes	100.000	117.113	-17.1	90	0.00
69	T	o-Xylene	50.000	57.962	-15.9	88	0.00
70	T	Styrene	50.000	58.606	-17.2	89	0.00
71	P	Bromoform	50.000	61.270	-22.5	90	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	75	0.00
73	T	Isopropylbenzene	50.000	53.235	-6.5	85	0.00
74	T	N-amyl acetate	50.000	45.622	8.8	69	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.402	-8.8	86	0.00
76	T	1,2,3-Trichloropropane	50.000	47.004	6.0	72	0.00
77	T	Bromobenzene	50.000	56.782	-13.6	91	0.00
78	T	n-propylbenzene	50.000	52.332	-4.7	83	0.00
79	T	2-Chlorotoluene	50.000	52.556	-5.1	84	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.568	-7.1	84	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.097	-0.2	82	0.00
82	T	4-Chlorotoluene	50.000	53.692	-7.4	86	0.00
83	T	tert-Butylbenzene	50.000	49.305	1.4	78	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.720	-7.4	84	0.00
85	T	sec-Butylbenzene	50.000	48.691	2.6	77	0.00
86	T	p-Isopropyltoluene	50.000	49.610	0.8	78	0.00
87	T	1,3-Dichlorobenzene	50.000	55.899	-11.8	89	0.00
88	T	1,4-Dichlorobenzene	50.000	54.637	-9.3	88	0.00
89	T	n-Butylbenzene	50.000	45.078	9.8	71	0.00
90	T	Hexachloroethane	50.000	52.332	-4.7	82	0.00
91	T	1,2-Dichlorobenzene	50.000	55.265	-10.5	88	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.901	0.2	82	0.00
93	T	1,2,4-Trichlorobenzene	50.000	47.138	5.7	74	0.00
94	T	Hexachlorobutadiene	50.000	35.548	28.9#	56	0.00
95	T	Naphthalene	50.000	50.063	-0.1	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	45.251	9.5	72	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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date/Time: 06/19/2025 18:13

Lab File ID: VN087120.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.499	0.482		-3.41	50
Chloromethane	0.644	0.526	0.1	-18.32	50
Vinyl Chloride	0.664	0.677		1.96	50
Bromomethane	0.372	0.377		1.34	50
Chloroethane	0.429	0.433		0.93	50
Trichlorofluoromethane	0.868	0.882		1.61	50
1,1,2-Trichlorotrifluoroethane	0.545	0.541		-0.73	50
1,1-Dichloroethene	0.557	0.568		1.98	50
Acetone	0.355	0.293		-17.47	50
Carbon Disulfide	1.539	1.584		2.92	50
Methyl tert-butyl Ether	2.015	1.943		-3.57	50
Methyl Acetate	1.035	0.877		-15.27	50
Methylene Chloride	0.665	0.635		-4.51	50
trans-1,2-Dichloroethene	0.619	0.603		-2.59	50
1,1-Dichloroethane	1.120	1.084	0.1	-3.21	50
Cyclohexane	1.086	0.968		-10.87	50
2-Butanone	0.577	0.489		-15.25	50
Carbon Tetrachloride	0.433	0.436		0.69	50
cis-1,2-Dichloroethene	0.740	0.731		-1.22	50
Bromochloromethane	0.550	0.469		-14.73	50
Chloroform	1.118	1.070		-4.29	50
1,1,1-Trichloroethane	0.951	0.916		-3.68	50
Methylcyclohexane	0.605	0.534		-11.74	50
Benzene	1.444	1.436		-0.55	50
1,2-Dichloroethane	0.438	0.422		-3.65	50
Trichloroethene	0.342	0.352		2.92	50
1,2-Dichloropropane	0.351	0.352		0.28	50
Bromodichloromethane	0.480	0.476		-0.83	50
4-Methyl-2-Pentanone	0.543	0.501		-7.74	50
Toluene	0.882	0.891		1.02	50
t-1,3-Dichloropropene	0.537	0.540		0.56	50
cis-1,3-Dichloropropene	0.574	0.575		0.17	50
1,1,2-Trichloroethane	0.340	0.334		-1.76	50
2-Hexanone	0.350	0.326		-6.86	50
Dibromochloromethane	0.354	0.374		5.65	50
1,2-Dibromoethane	0.348	0.352		1.15	50
Tetrachloroethene	0.316	0.313		-0.95	50
Chlorobenzene	1.103	1.113	0.3	0.91	50

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: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: MSVOA_N Calibration Date/Time: 06/19/2025 18:13

Lab File ID: VN087120.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.900	1.856		-2.32	50
m/p-Xylenes	0.727	0.750		3.16	50
o-Xylene	0.696	0.725		4.17	50
Styrene	1.192	1.220		2.35	50
Bromoform	0.263	0.283	0.1	7.61	50
Isopropylbenzene	3.643	3.488		-4.26	50
1,1,2,2-Tetrachloroethane	1.234	1.178	0.3	-4.54	50
1,3-Dichlorobenzene	1.644	1.636		-0.49	50
1,4-Dichlorobenzene	1.676	1.668		-0.48	50
1,2-Dichlorobenzene	1.579	1.538		-2.6	50
1,2-Dibromo-3-Chloropropane	0.295	0.264		-10.51	50
1,2,4-Trichlorobenzene	1.008	0.895		-11.21	50
1,2,3-Trichlorobenzene	1.002	0.856		-14.57	50
1,2-Dichloroethane-d4	0.669	0.621		-7.18	50
Dibromofluoromethane	0.296	0.309		4.39	50
Toluene-d8	1.173	1.157		-1.36	50
4-Bromofluorobenzene	0.436	0.441		1.15	50

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_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	171846	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	306033	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	268361	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136487	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	106748	46.395	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.800%			
35) Dibromofluoromethane	8.171	113	94646	52.186	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.380%			
50) Toluene-d8	10.565	98	354172	49.330	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.660%			
62) 4-Bromofluorobenzene	12.847	95	134875	50.563	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.120%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	82875	48.368	ug/l	100
3) Chloromethane	2.395	50	90383	40.850	ug/l	97
4) Vinyl Chloride	2.553	62	116257	50.937	ug/l	98
5) Bromomethane	2.989	94	64801	50.735	ug/l	100
6) Chloroethane	3.153	64	74345	50.428	ug/l	92
7) Trichlorofluoromethane	3.524	101	151601	50.839	ug/l	99
8) Diethyl Ether	3.983	74	65083	50.093	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.394	101	93038	49.660	ug/l	99
10) Methyl Iodide	4.612	142	82959	34.158	ug/l	98
11) Tert butyl alcohol	5.536	59	137131	219.653	ug/l	99
12) 1,1-Dichloroethene	4.371	96	97574	51.014	ug/l	90
13) Acrolein	4.200	56	42652	215.834	ug/l	98
14) Allyl chloride	5.047	41	138488	43.658	ug/l	96
15) Acrylonitrile	5.736	53	336803	230.809	ug/l	100
16) Acetone	4.447	43	251966	206.505	ug/l	95
17) Carbon Disulfide	4.742	76	272197	51.448	ug/l	98
18) Methyl Acetate	5.042	43	150668	42.374	ug/l	96
19) Methyl tert-butyl Ether	5.812	73	333883	48.211	ug/l	98
20) Methylene Chloride	5.300	84	109053	47.740	ug/l	92
21) trans-1,2-Dichloroethene	5.806	96	103590	48.679	ug/l	94
22) Diisopropyl ether	6.683	45	302028	45.170	ug/l	97
23) Vinyl Acetate	6.618	43	1308153	231.557	ug/l	97
24) 1,1-Dichloroethane	6.583	63	186312	48.418	ug/l	99
25) 2-Butanone	7.488	43	420559	212.049	ug/l	95
26) 2,2-Dichloropropane	7.500	77	150789	50.377	ug/l	99
27) cis-1,2-Dichloroethene	7.494	96	125637	49.366	ug/l	98
28) Bromochloromethane	7.824	49	80614	42.609	ug/l	91
29) Tetrahydrofuran	7.847	42	279595	216.407	ug/l	94
30) Chloroform	7.971	83	183860	47.846	ug/l	94
31) Cyclohexane	8.265	56	166407	44.593	ug/l	93
32) 1,1,1-Trichloroethane	8.177	97	157349	48.143	ug/l	98
36) 1,1-Dichloropropene	8.382	75	137000	50.694	ug/l	99
37) Ethyl Acetate	7.571	43	157538	45.793	ug/l	98
38) Carbon Tetrachloride	8.371	117	133489	50.312	ug/l	96
39) Methylcyclohexane	9.606	83	163439	44.143	ug/l	96
40) Benzene	8.612	78	439499	49.733	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	82321	42.608	ug/l		90
42) 1,2-Dichloroethane	8.671	62	129038	48.141	ug/l		98
43) Isopropyl Acetate	8.694	43	243496	44.098	ug/l		96
44) Trichloroethene	9.353	130	107576	51.338	ug/l		98
45) 1,2-Dichloropropane	9.624	63	107860	50.168	ug/l		99
46) Dibromomethane	9.712	93	73457	51.439	ug/l		99
47) Bromodichloromethane	9.888	83	145562	49.542	ug/l		98
48) Methyl methacrylate	9.682	41	111561	43.897	ug/l		95
49) 1,4-Dioxane	9.706	88	47393	1025.069	ug/l	#	98
51) 4-Methyl-2-Pentanone	10.447	43	766458	230.578	ug/l		97
52) Toluene	10.629	92	272681	50.490	ug/l		98
53) t-1,3-Dichloropropene	10.835	75	165272	50.304	ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	175866	50.028	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	102325	49.240	ug/l		97
56) Ethyl methacrylate	10.882	69	168508	50.911	ug/l		94
57) 1,3-Dichloropropane	11.165	76	178447	49.502	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	444423	225.119	ug/l		99
59) 2-Hexanone	11.200	43	498716	232.920	ug/l		93
60) Dibromochloromethane	11.359	129	114404	52.840	ug/l		99
61) 1,2-Dibromoethane	11.470	107	107761	50.592	ug/l		99
64) Tetrachloroethene	11.106	164	84024	49.473	ug/l		97
65) Chlorobenzene	11.888	112	298669	50.461	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.959	131	98738	51.897	ug/l		98
67) Ethyl Benzene	11.965	91	498126	48.860	ug/l		98
68) m/p-Xylenes	12.070	106	402639	103.171	ug/l		96
69) o-Xylene	12.394	106	194516	52.041	ug/l		95
70) Styrene	12.412	104	327523	51.208	ug/l		99
71) Bromoform	12.576	173	75851	53.806	ug/l	#	99
73) Isopropylbenzene	12.694	105	476017	47.874	ug/l		100
74) N-amyl acetate	12.518	43	161016m	46.341	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.935	83	160726	47.714	ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	155878m	48.046	ug/l		
77) Bromobenzene	12.976	156	116672	51.165	ug/l		94
78) n-propylbenzene	13.035	91	563557	46.638	ug/l		99
79) 2-Chlorotoluene	13.123	91	336805	46.477	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	392465	47.807	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	68115	48.329	ug/l		88
82) 4-Chlorotoluene	13.217	91	347235	47.356	ug/l		98
83) tert-Butylbenzene	13.435	119	338090	44.991	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	398780	48.443	ug/l		100
85) sec-Butylbenzene	13.612	105	486035	44.538	ug/l		100
86) p-Isopropyltoluene	13.729	119	408834	45.321	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	223232	49.757	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	227638	49.767	ug/l		100
89) n-Butylbenzene	14.053	91	358266	41.002	ug/l		99
90) Hexachloroethane	14.329	117	71475	46.744	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	209913	48.700	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	36024	44.717	ug/l		94
93) 1,2,4-Trichlorobenzene	15.388	180	122224	44.406	ug/l		100
94) Hexachlorobutadiene	15.494	225	39636	38.652	ug/l		98
95) Naphthalene	15.635	128	475760	46.438	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	116780	42.704	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

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

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

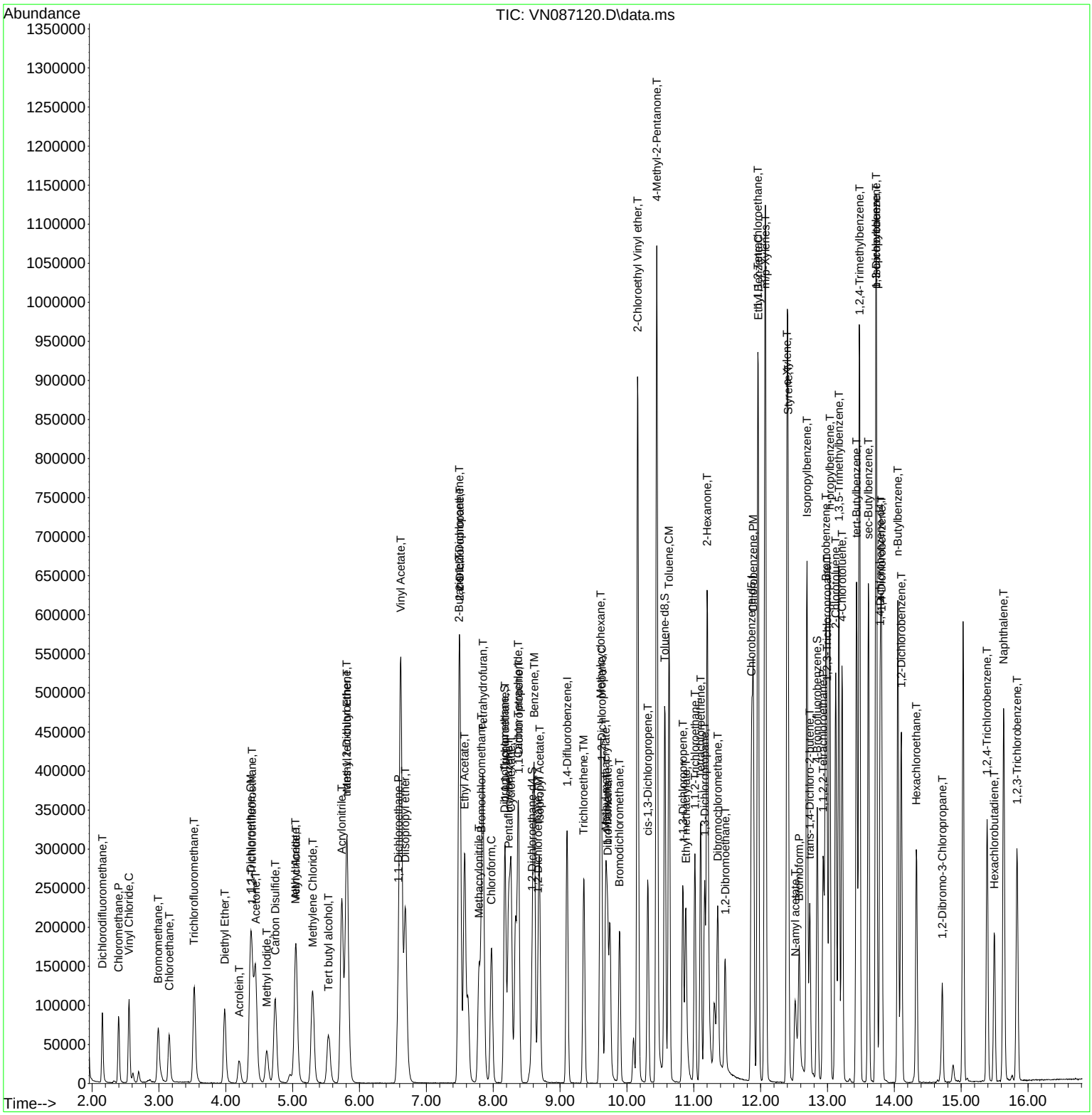
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

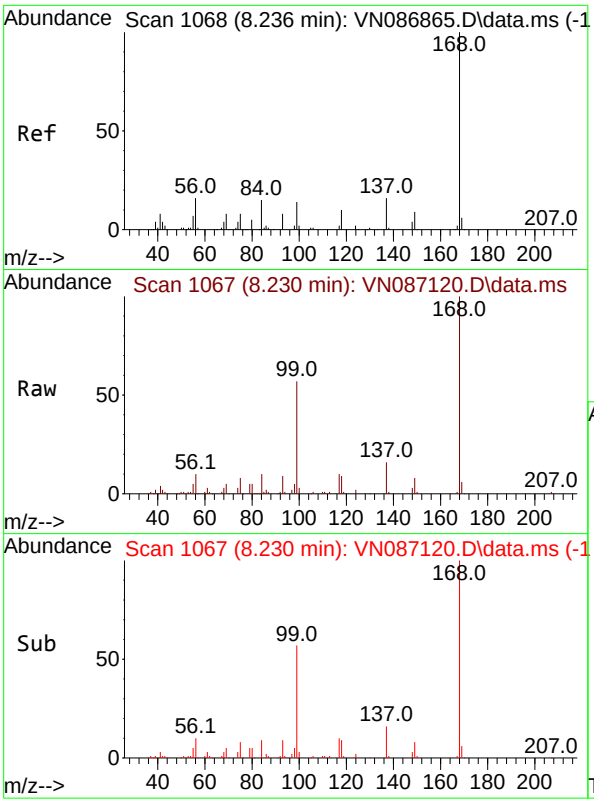
Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

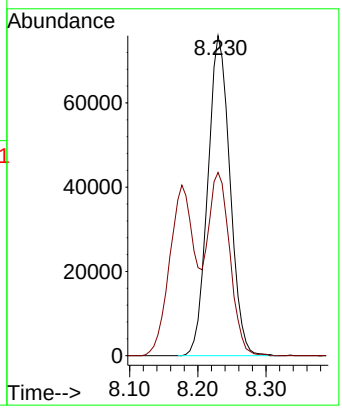




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:168 Resp: 17184

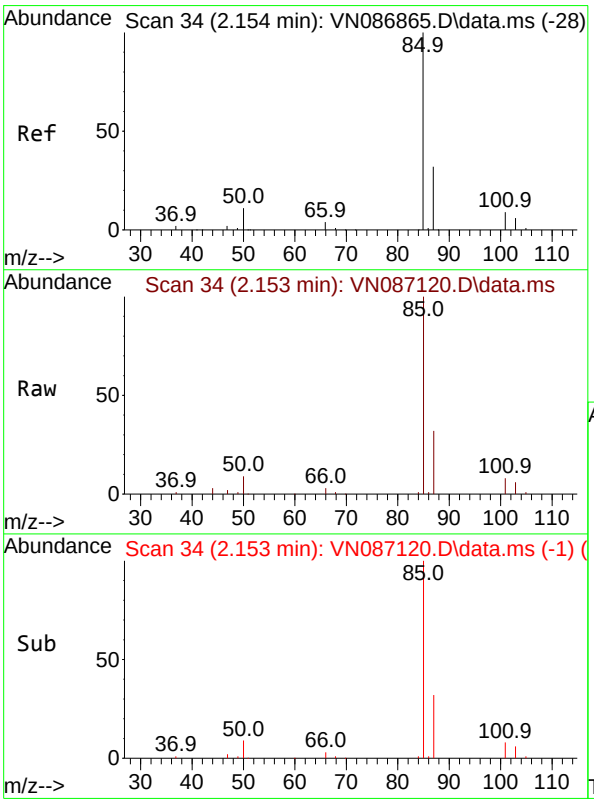
Ion	Ratio	Lower	Upper
168	100		
99	57.2	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

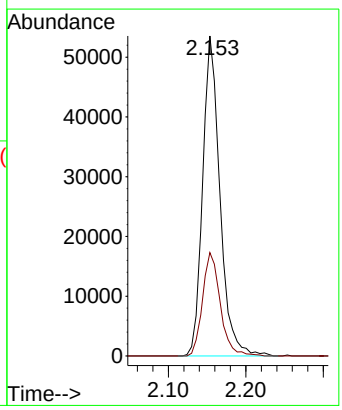
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

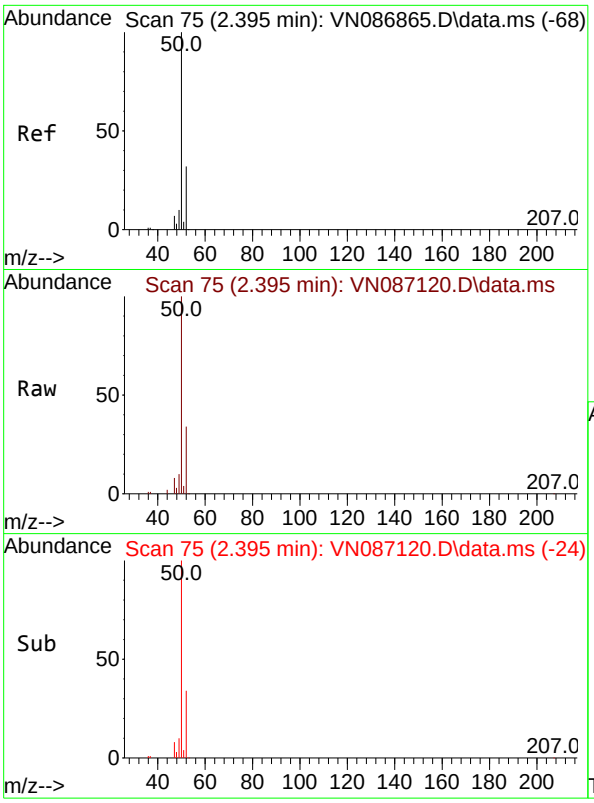


#2
Dichlorodifluoromethane
Concen: 48.368 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 85 Resp: 82875

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.2	48.6

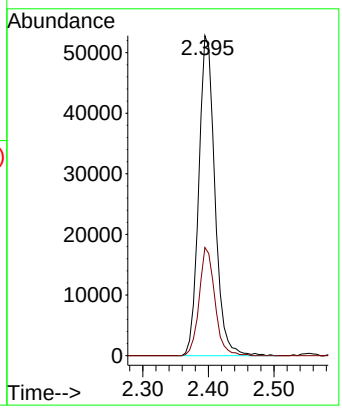




#3
Chloromethane
Concen: 40.850 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 50 Resp: 9038

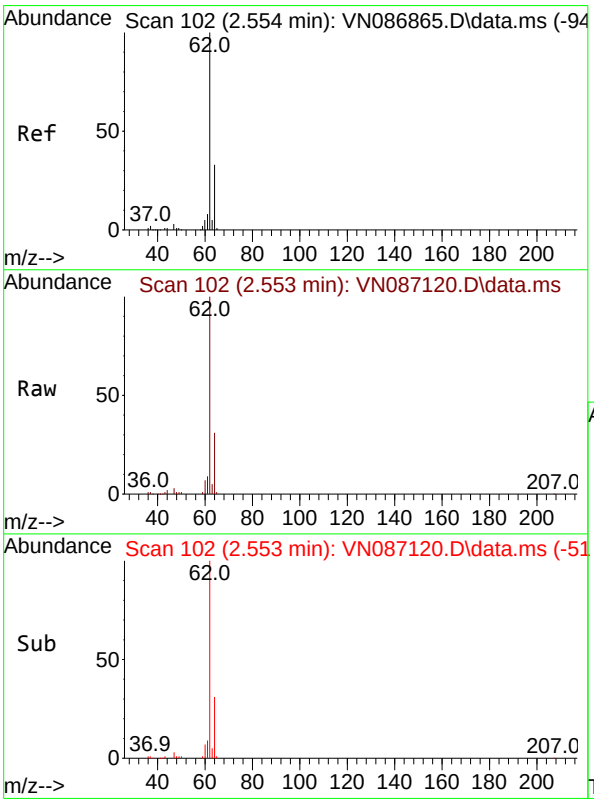
Ion	Ratio	Lower	Upper
50	100		
52	33.8	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

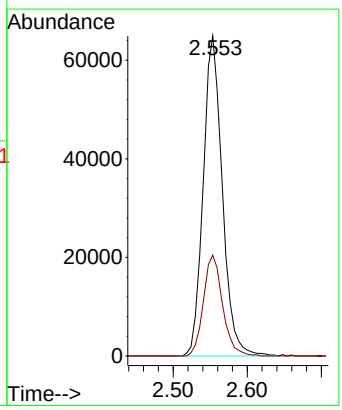
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

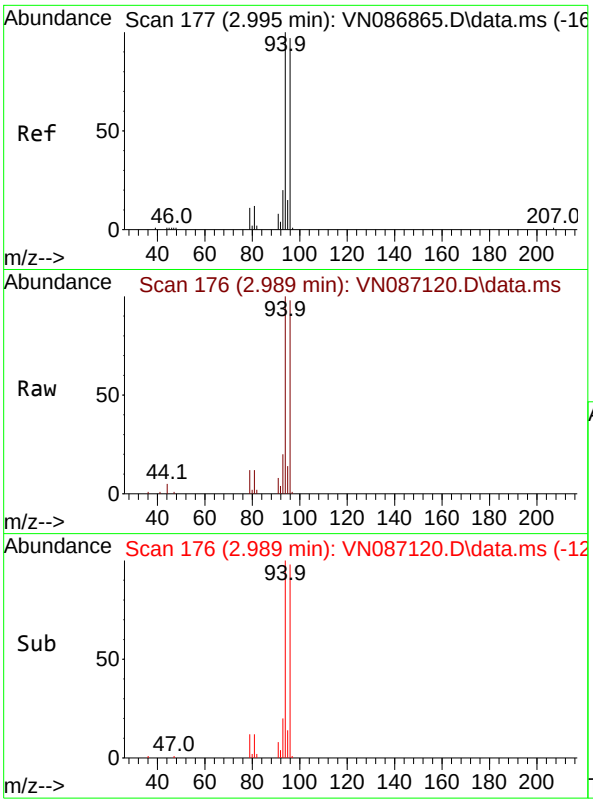


#4
Vinyl Chloride
Concen: 50.937 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 62 Resp: 116257

Ion	Ratio	Lower	Upper
62	100		
64	31.5	26.0	39.0

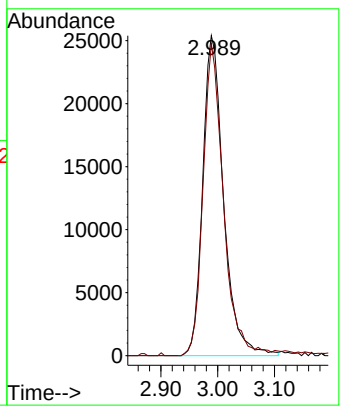




#5
Bromomethane
Concen: 50.735 ug/l
RT: 2.989 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 94 Resp: 6480

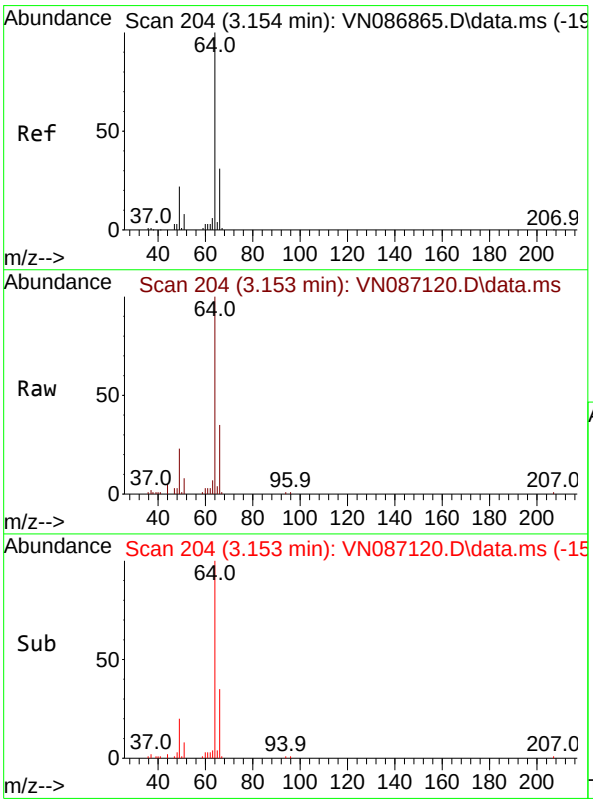
Ion	Ratio	Lower	Upper
94	100		
96	97.6	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

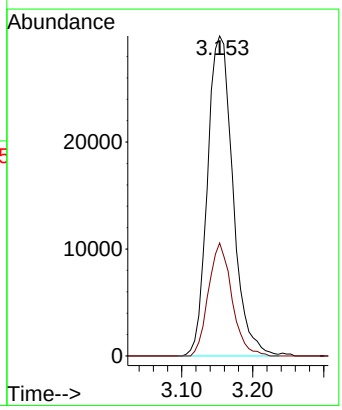
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

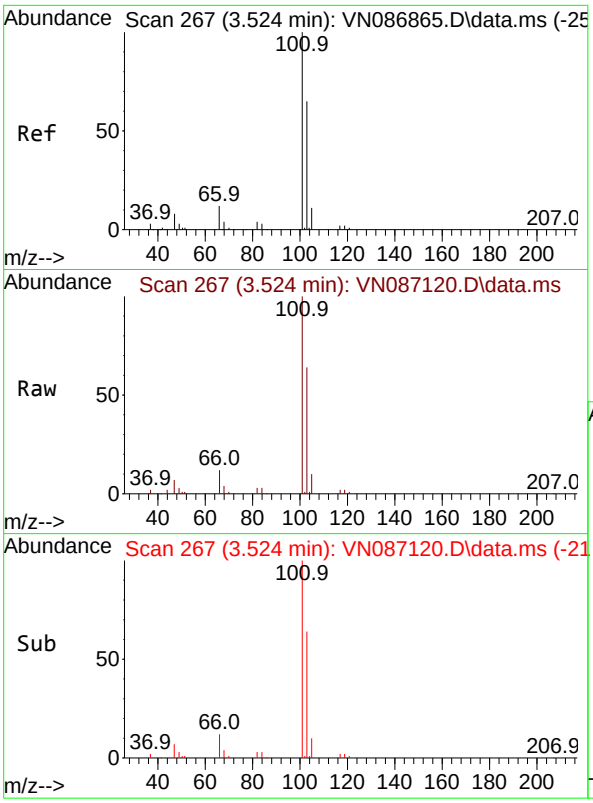


#6
Chloroethane
Concen: 50.428 ug/l
RT: 3.153 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 64 Resp: 74345

Ion	Ratio	Lower	Upper
64	100		
66	35.3	24.6	36.8





#7
Trichlorofluoromethane
Concen: 50.839 ug/l
RT: 3.524 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

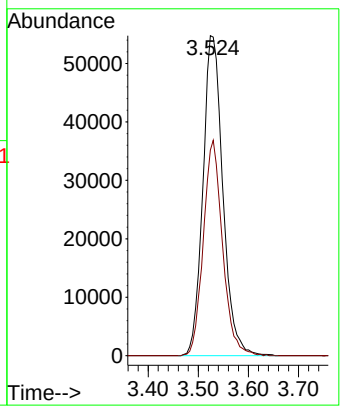
Tgt Ion:101 Resp: 15160

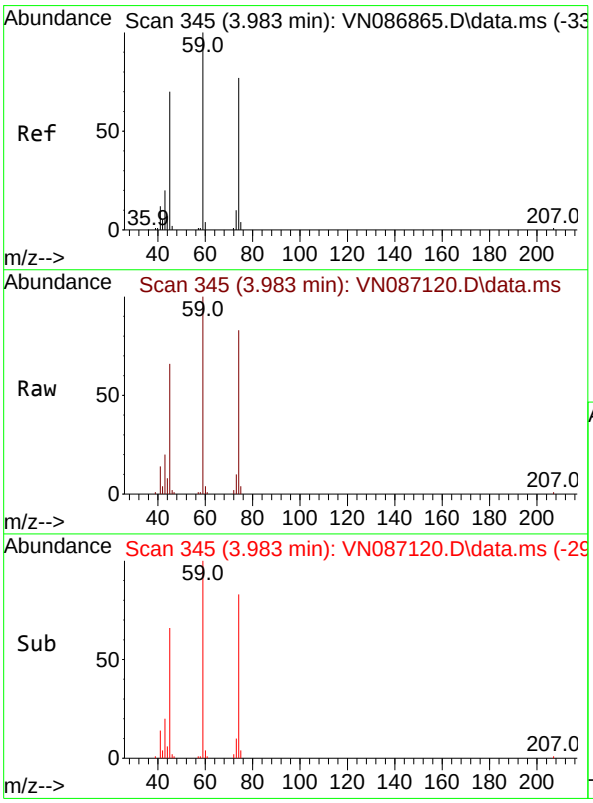
Ion	Ratio	Lower	Upper
101	100		
103	64.3	52.2	78.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

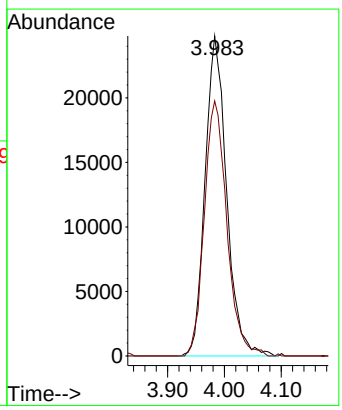


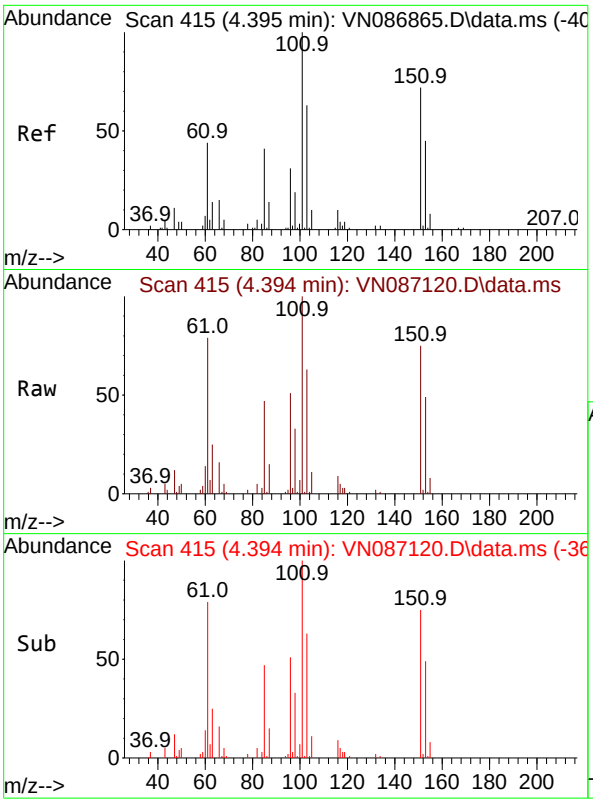


#8
Diethyl Ether
Concen: 50.093 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 74 Resp: 65083

Ion	Ratio	Lower	Upper
74	100		
45	83.6	45.5	136.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.660 ug/l
RT: 4.394 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

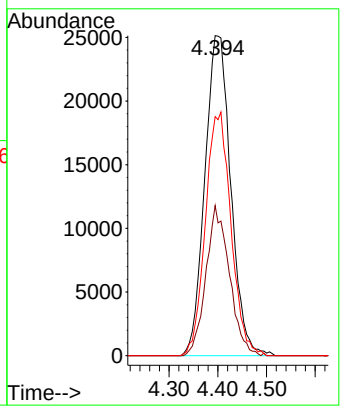
Tgt Ion:101 Resp: 9303

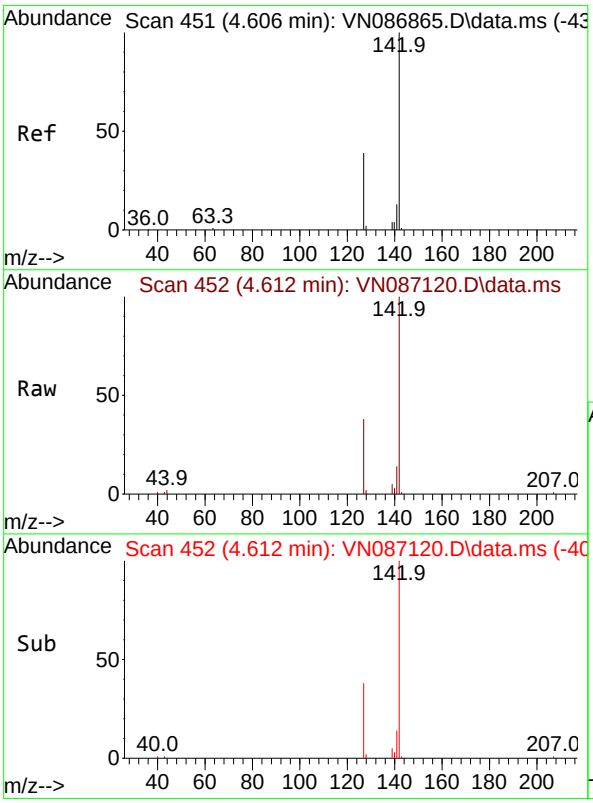
Ion	Ratio	Lower	Upper
101	100		
85	42.3	33.8	50.8
151	75.0	58.7	88.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

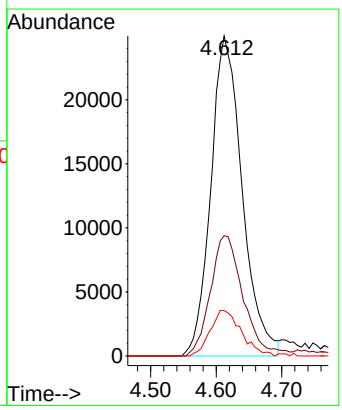


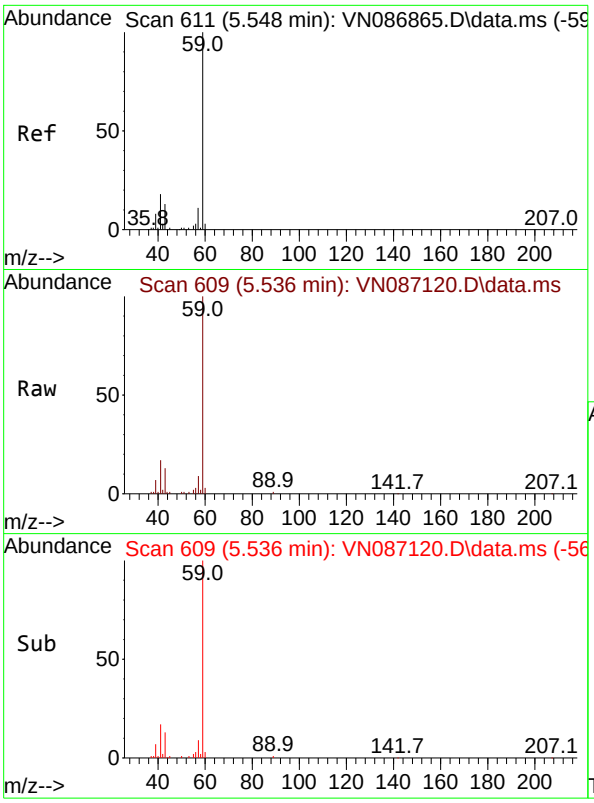


#10
Methyl Iodide
Concen: 34.158 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:142 Resp: 82959

Ion	Ratio	Lower	Upper
142	100		
127	37.6	30.9	46.3
141	14.2	10.4	15.6

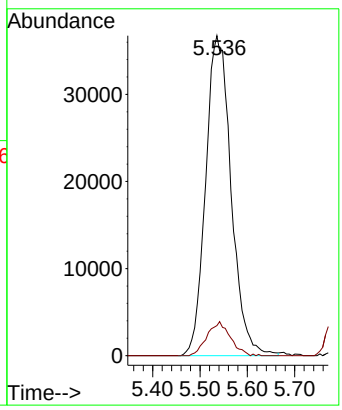




#11
Tert butyl alcohol
Concen: 219.653 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 59 Resp: 13713

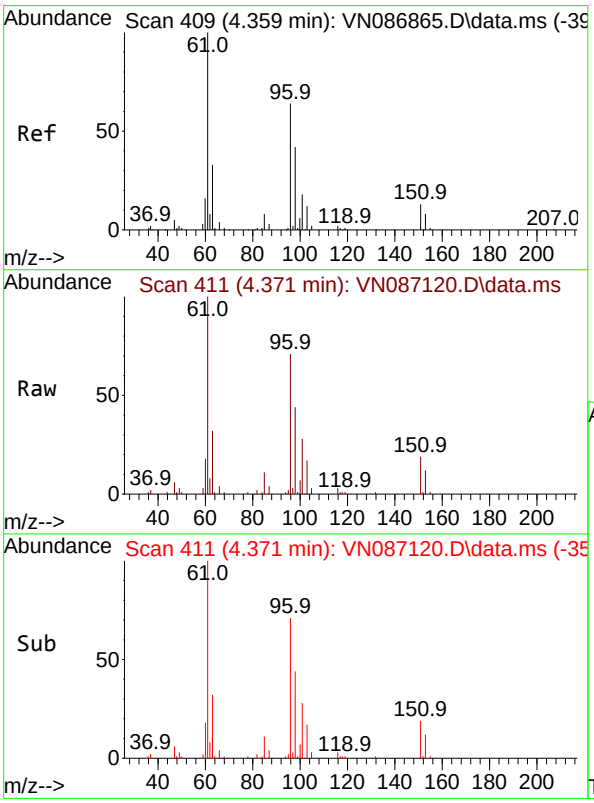
Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.1	12.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

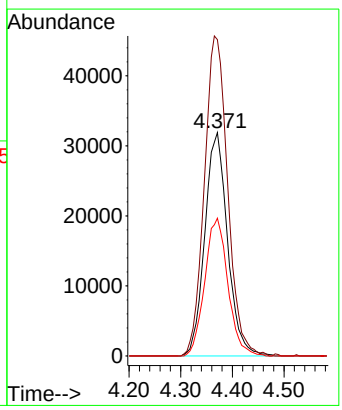
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

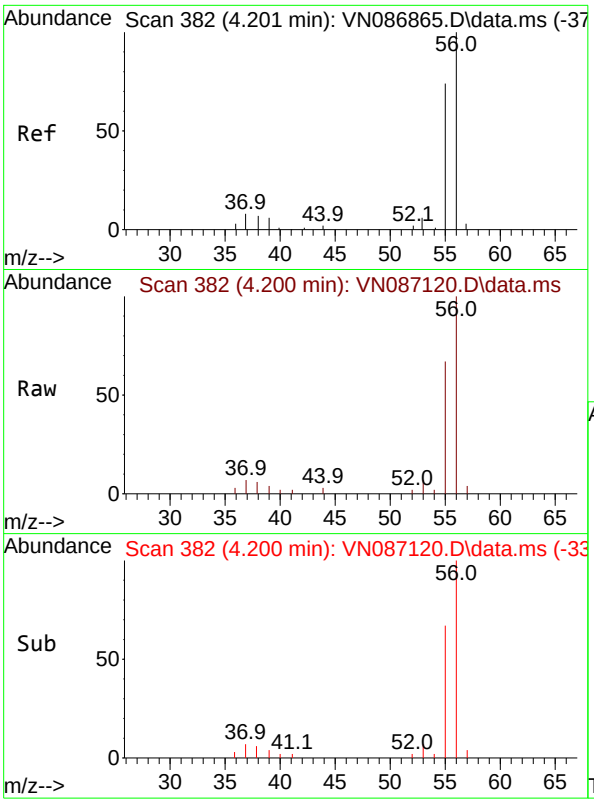


#12
1,1-Dichloroethene
Concen: 51.014 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 96 Resp: 97574

Ion	Ratio	Lower	Upper
96	100		
61	141.5	125.8	188.6
98	61.6	52.5	78.7

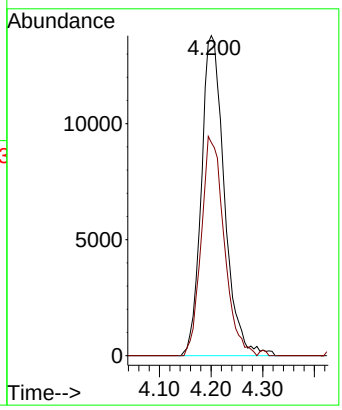




#13
Acrolein
Concen: 215.834 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 56 Resp: 4265

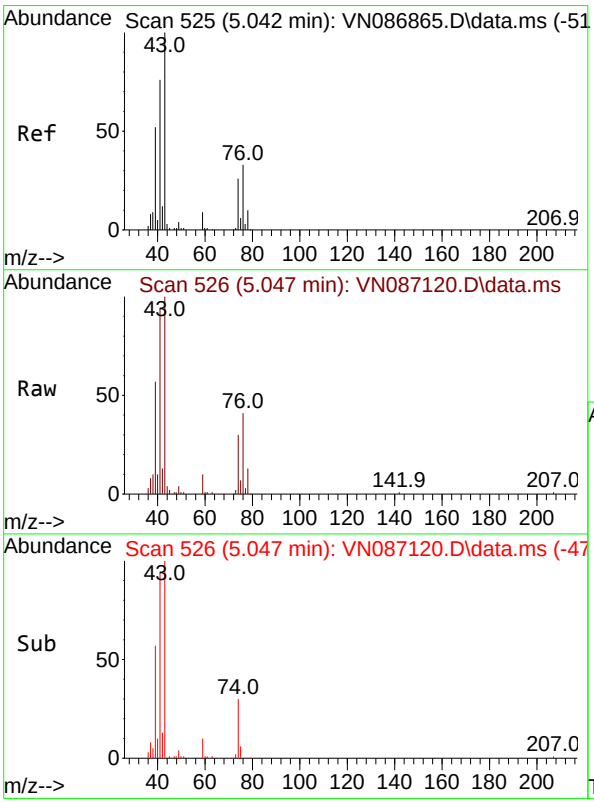
Ion	Ratio	Lower	Upper
56	100		
55	68.0	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

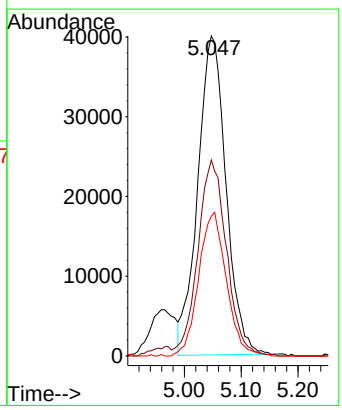
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

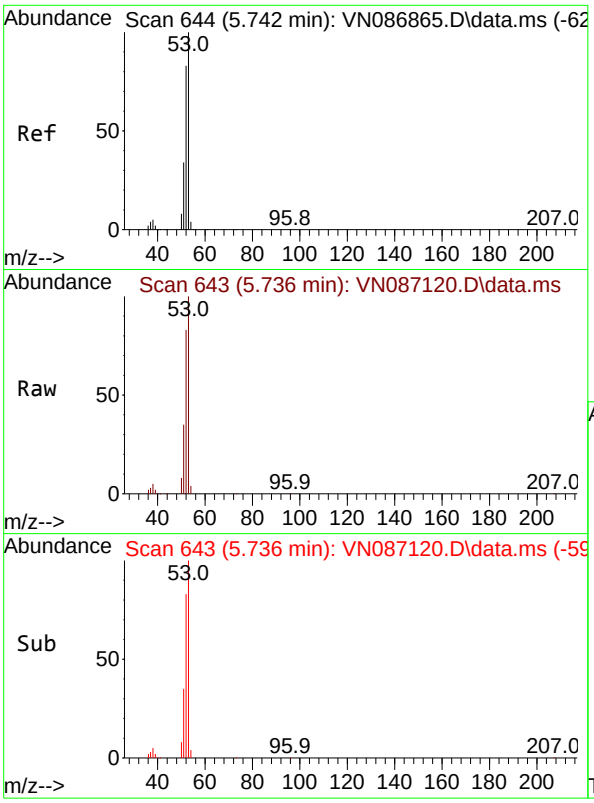


#14
Allyl chloride
Concen: 43.658 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 41 Resp: 138488

Ion	Ratio	Lower	Upper
41	100		
39	62.3	51.3	76.9
76	44.0	31.4	47.0





#15
Acrylonitrile
Concen: 230.809 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

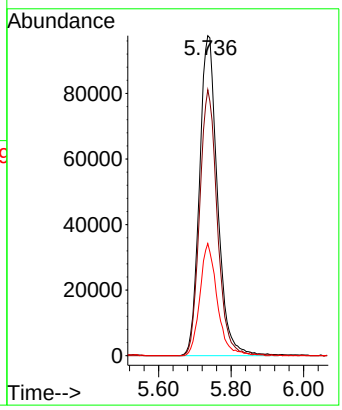
Tgt Ion: 53 Resp: 33680

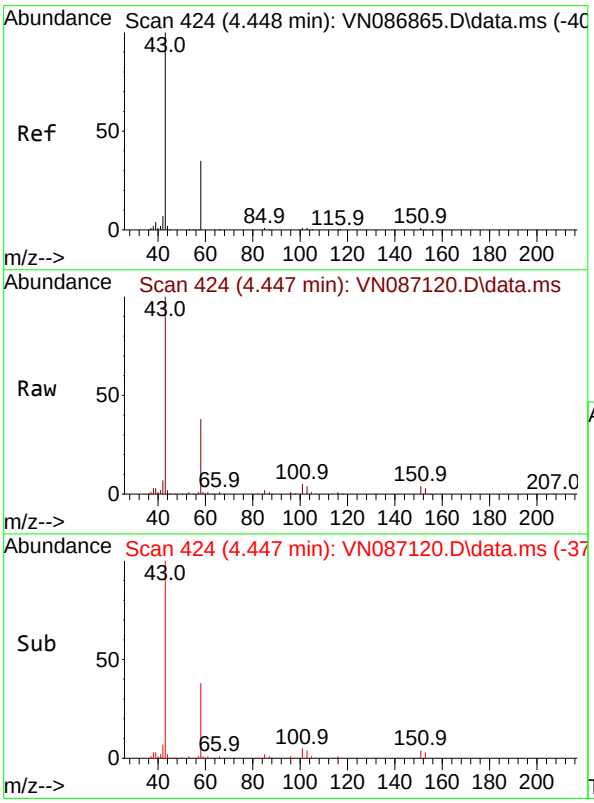
Ion	Ratio	Lower	Upper
53	100		
52	80.9	65.0	97.6
51	33.7	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

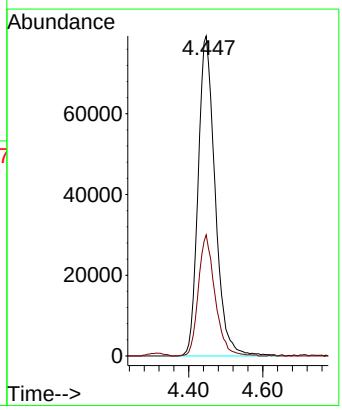


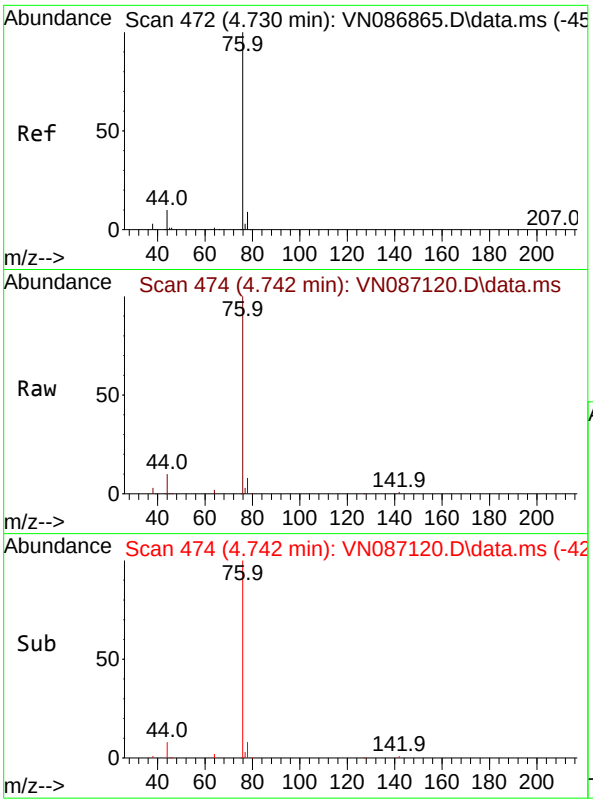


#16
Acetone
Concen: 206.505 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 43 Resp: 251966

Ion	Ratio	Lower	Upper
43	100		
58	37.9	28.0	42.0

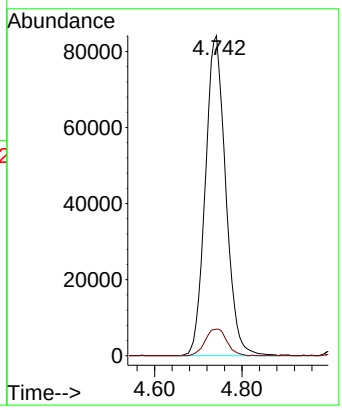




#17
Carbon Disulfide
Concen: 51.448 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 76 Resp: 27219

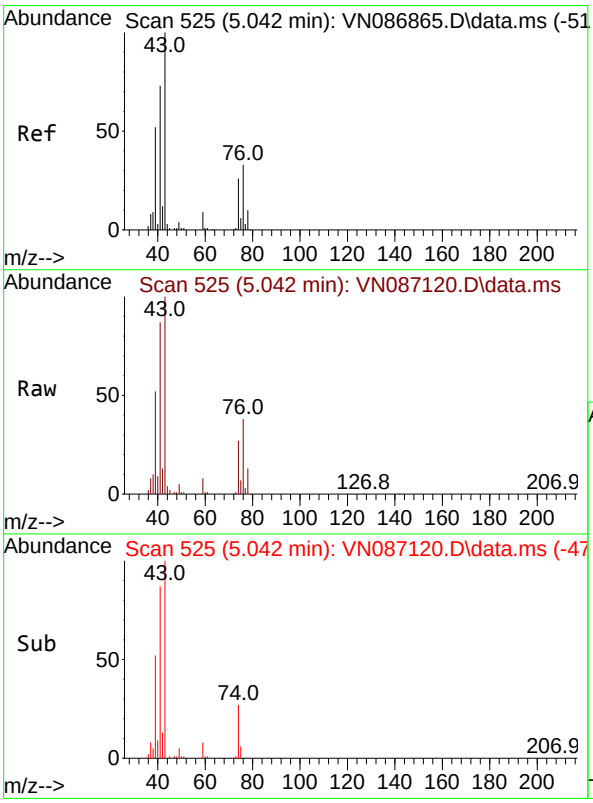
Ion	Ratio	Lower	Upper
76	100		
78	8.3	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

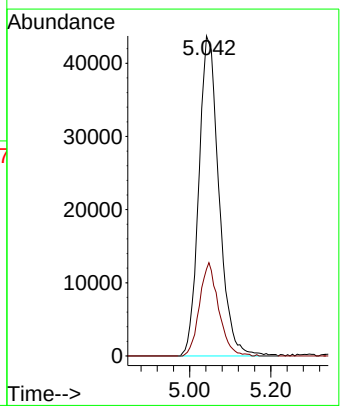
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

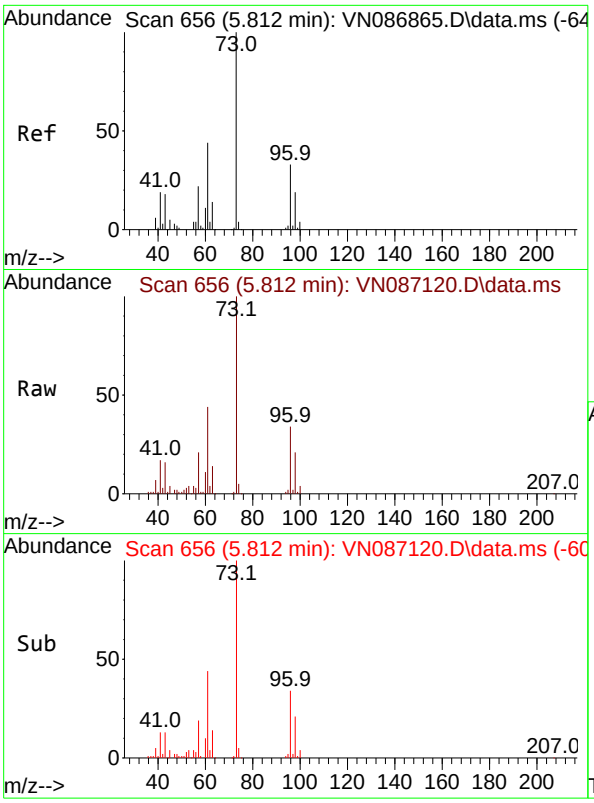


#18
Methyl Acetate
Concen: 42.374 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 43 Resp: 150668

Ion	Ratio	Lower	Upper
43	100		
74	27.7	20.7	31.1

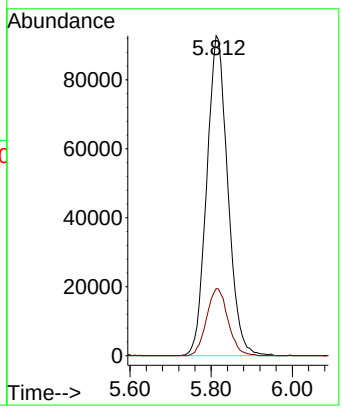




#19
Methyl tert-butyl Ether
Concen: 48.211 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 73 Resp: 33388

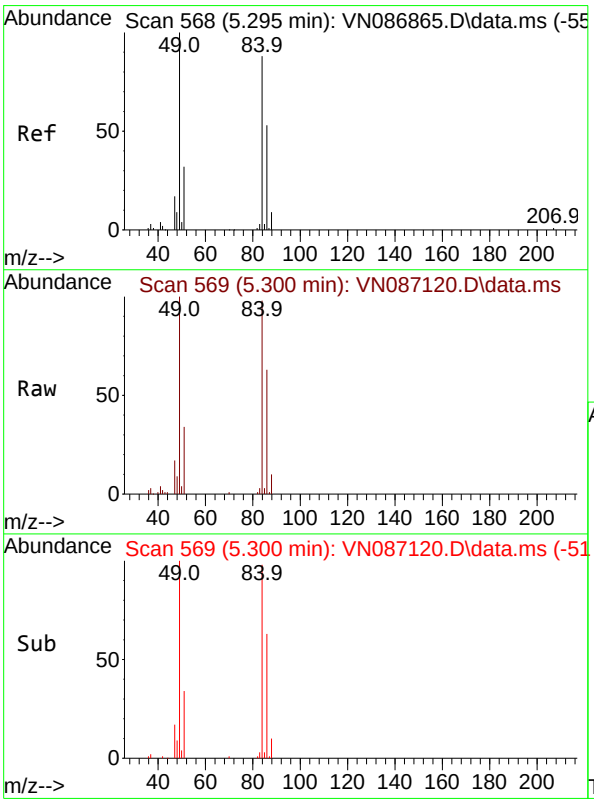
Ion	Ratio	Lower	Upper
73	100		
57	20.9	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

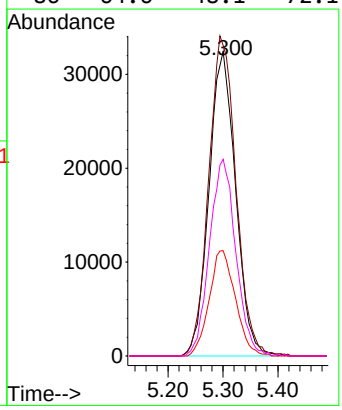
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

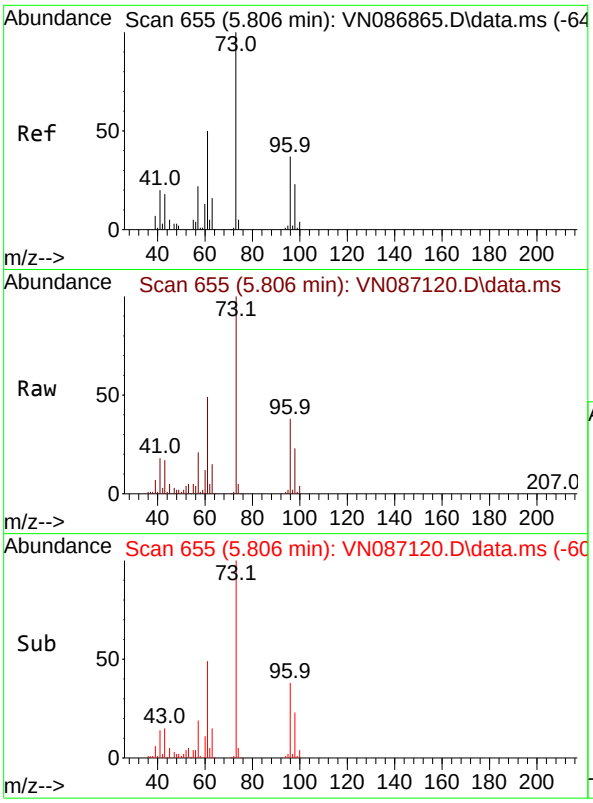


#20
Methylene Chloride
Concen: 47.740 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 84 Resp: 109053

Ion	Ratio	Lower	Upper
84	100		
49	102.0	90.5	135.7
51	34.6	28.5	42.7
86	64.6	48.1	72.1

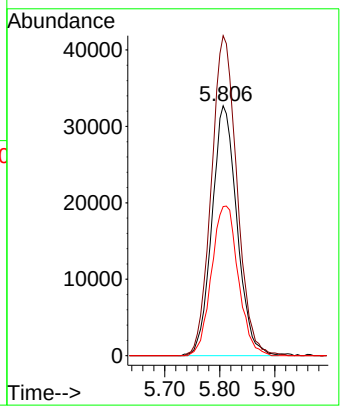




#21
trans-1,2-Dichloroethene
Concen: 48.679 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 96 Resp: 10359

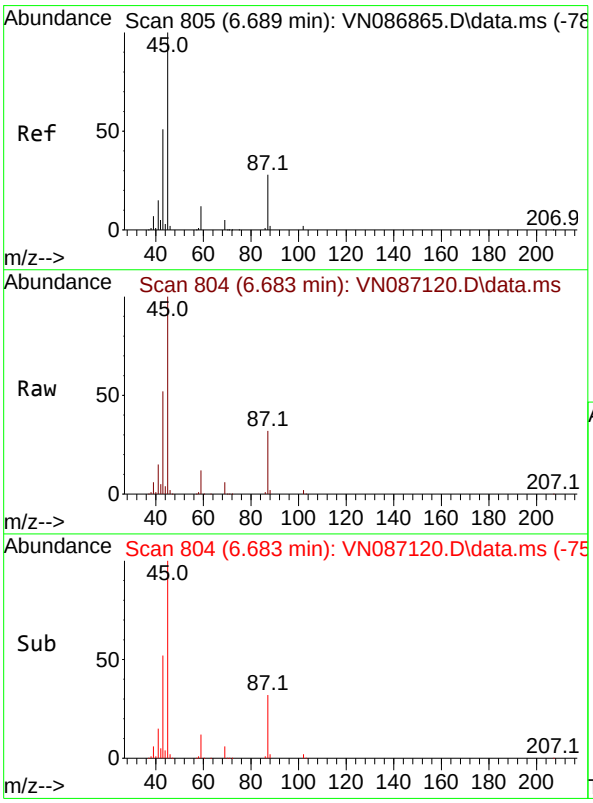
Ion	Ratio	Lower	Upper
96	100		
61	128.0	109.2	163.8
98	59.7	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

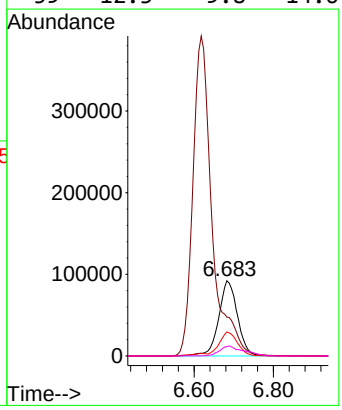
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

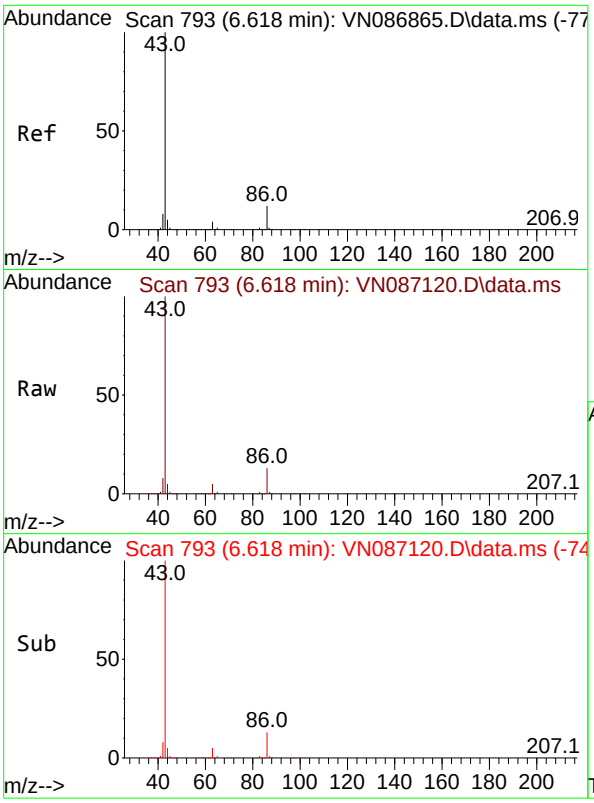


#22
Diisopropyl ether
Concen: 45.170 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 45 Resp: 302028

Ion	Ratio	Lower	Upper
45	100		
43	51.3	41.9	62.9
87	31.8	22.4	33.6
59	12.3	9.8	14.6





#23
Vinyl Acetate
Concen: 231.557 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

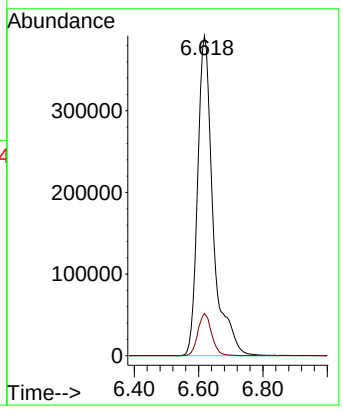
Tgt Ion: 43 Resp: 130815

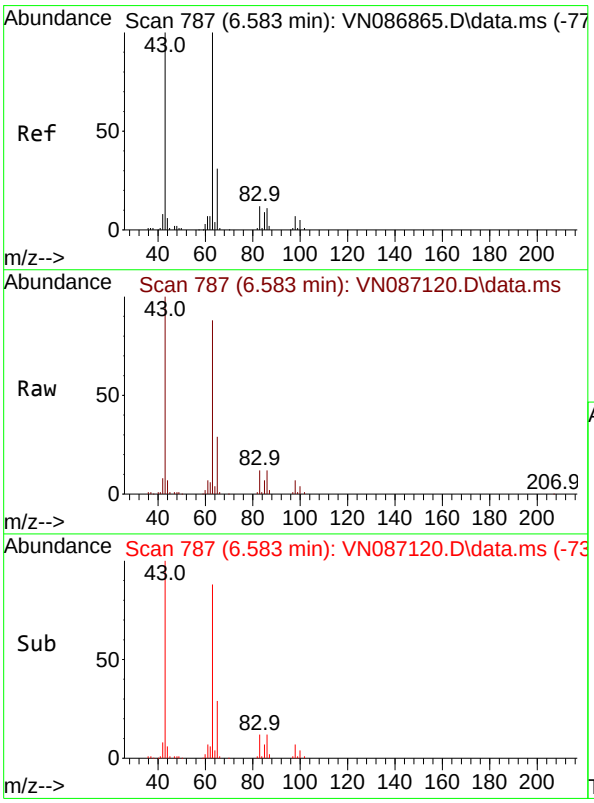
Ion	Ratio	Lower	Upper
43	100		
86	13.1	9.5	14.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

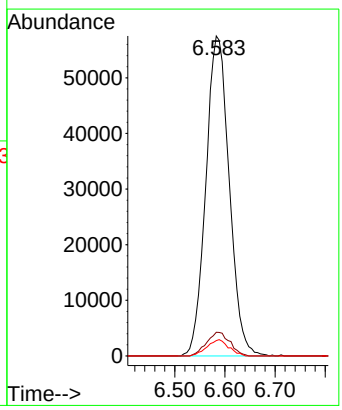


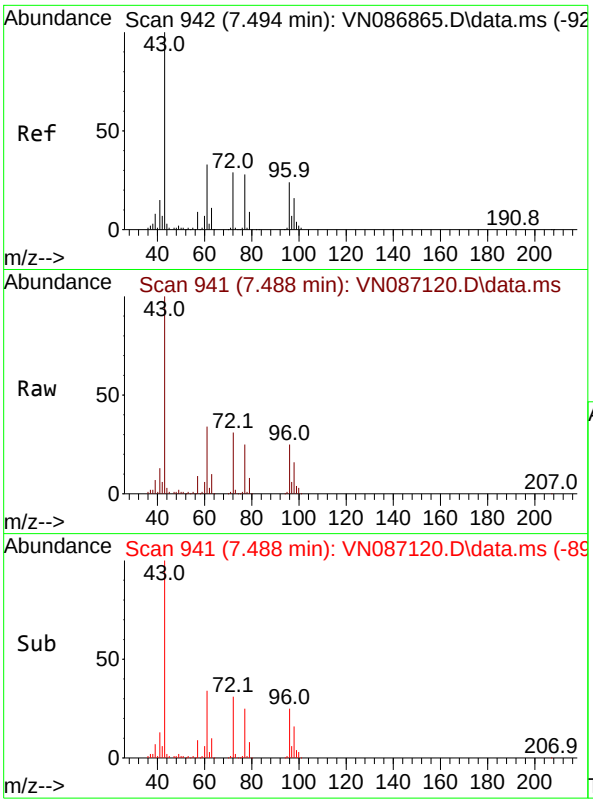


#24
1,1-Dichloroethane
Concen: 48.418 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 63 Resp: 186312

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	4.8	2.6	7.8





#25
2-Butanone
Concen: 212.049 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

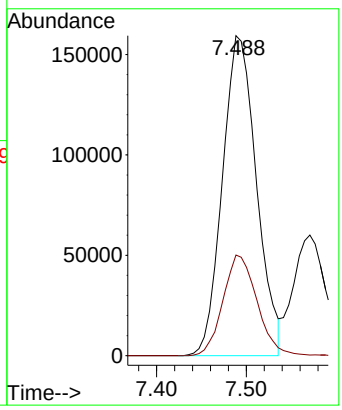
Tgt Ion: 43 Resp: 42055

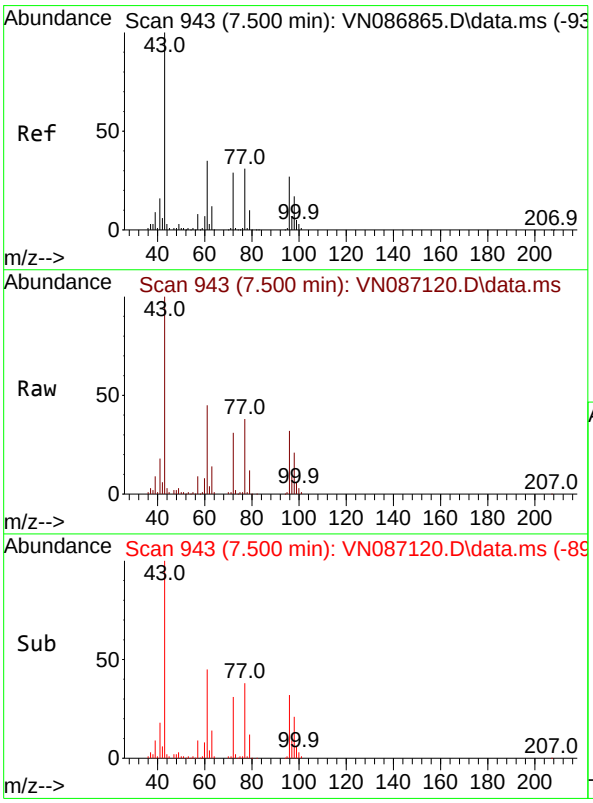
Ion	Ratio	Lower	Upper
43	100		
72	31.5	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

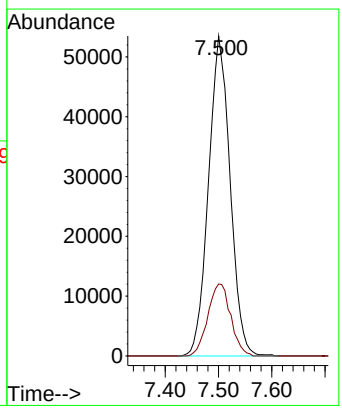


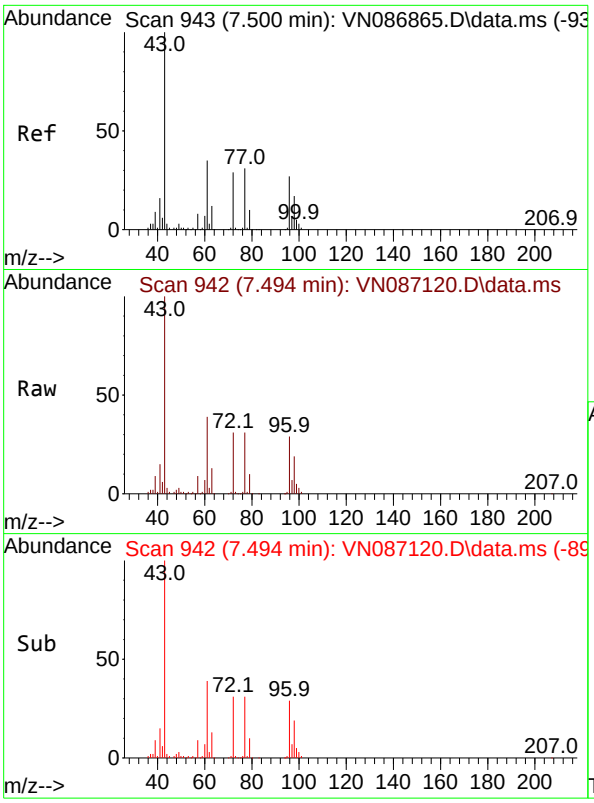


#26
2,2-Dichloropropane
Concen: 50.377 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 77 Resp: 150789

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.7





#27
cis-1,2-Dichloroethene
Concen: 49.366 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

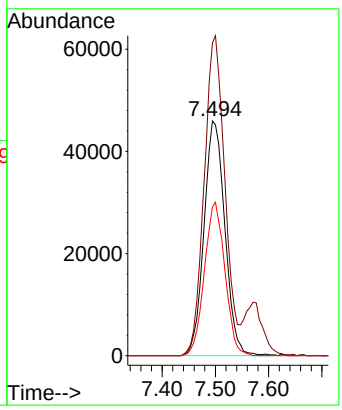
Tgt Ion: 96 Resp: 12563

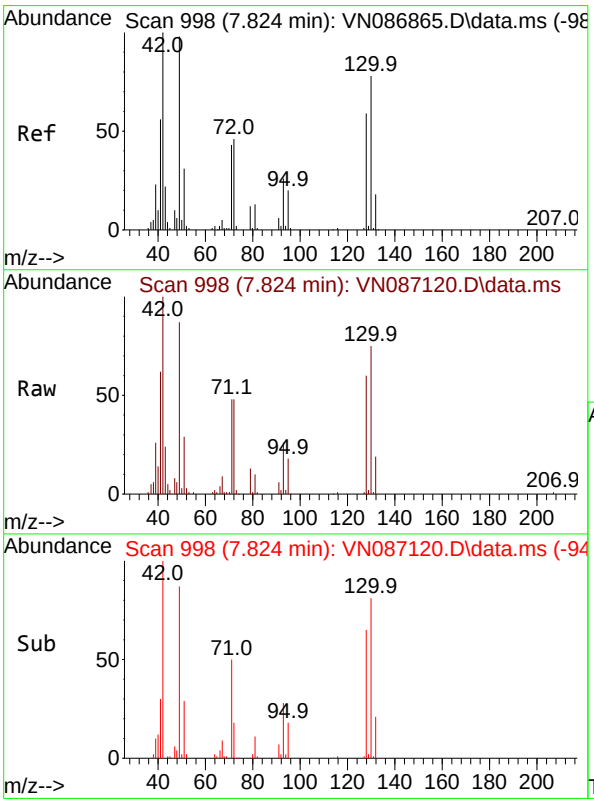
Ion	Ratio	Lower	Upper
96	100		
61	135.2	0.0	278.0
98	63.9	0.0	128.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

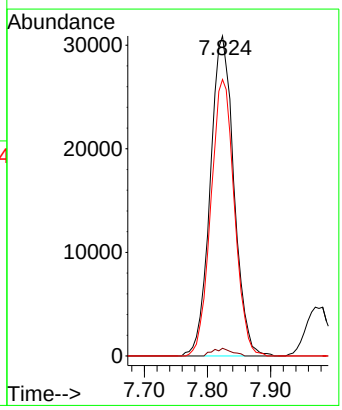


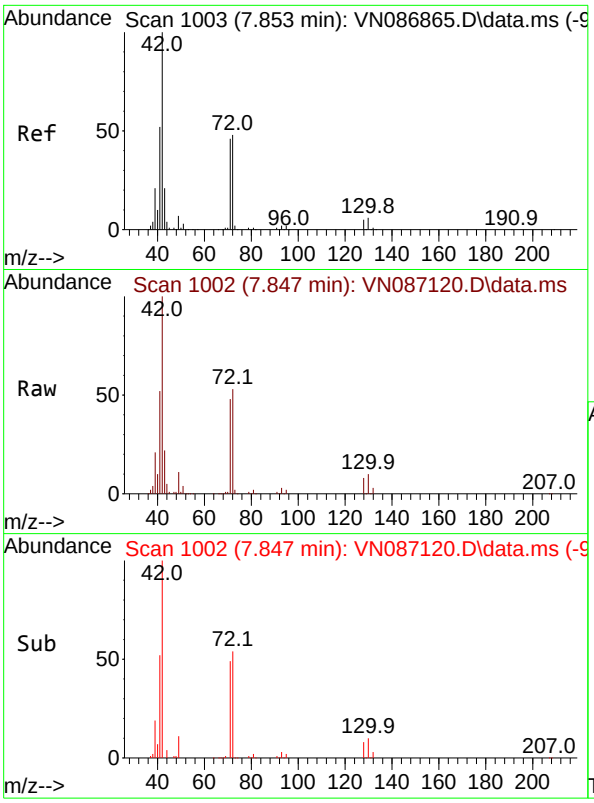


#28
Bromochloromethane
Concen: 42.609 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 49 Resp: 80614

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	85.5	62.2	93.2

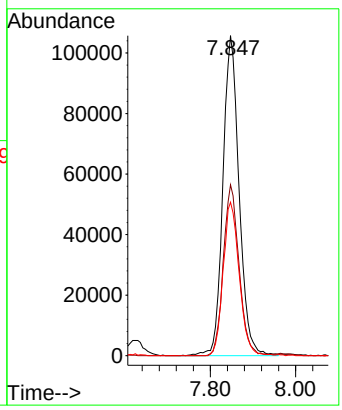




#29
Tetrahydrofuran
Concen: 216.407 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 42 Resp: 27959

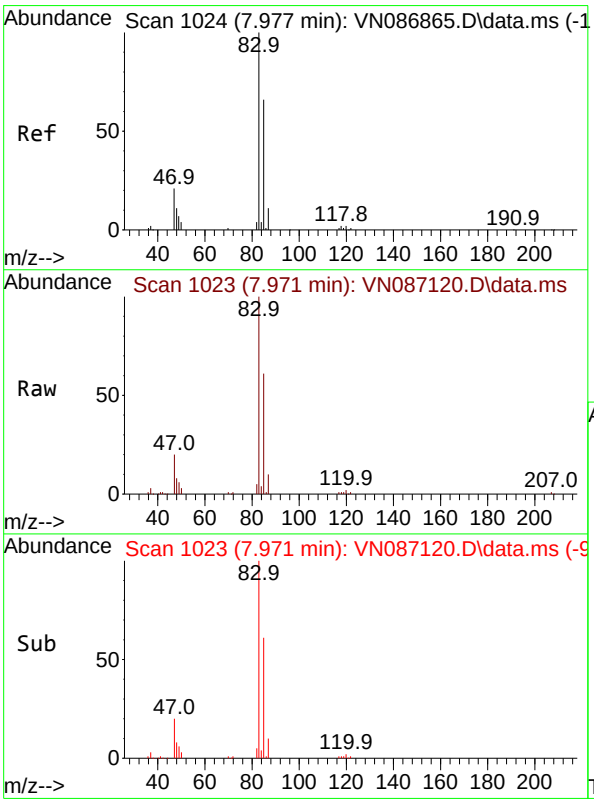
Ion	Ratio	Lower	Upper
42	100		
72	51.7	37.8	56.6
71	47.5	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

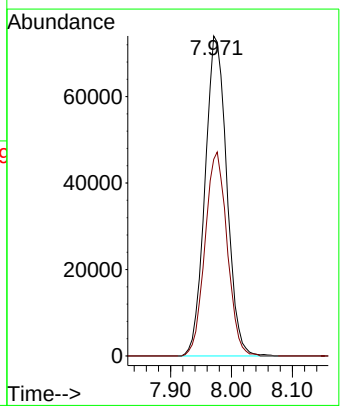
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

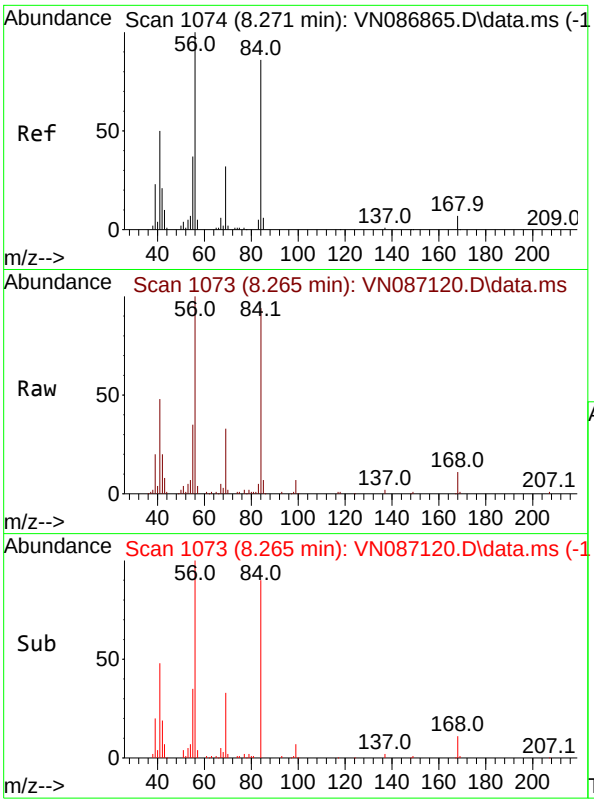


#30
Chloroform
Concen: 47.846 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 83 Resp: 183860

Ion	Ratio	Lower	Upper
83	100		
85	61.5	52.9	79.3

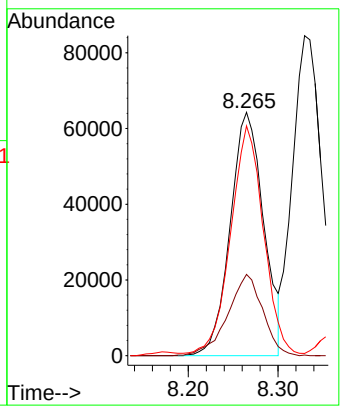




#31
Cyclohexane
Concen: 44.593 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 56 Resp: 16640

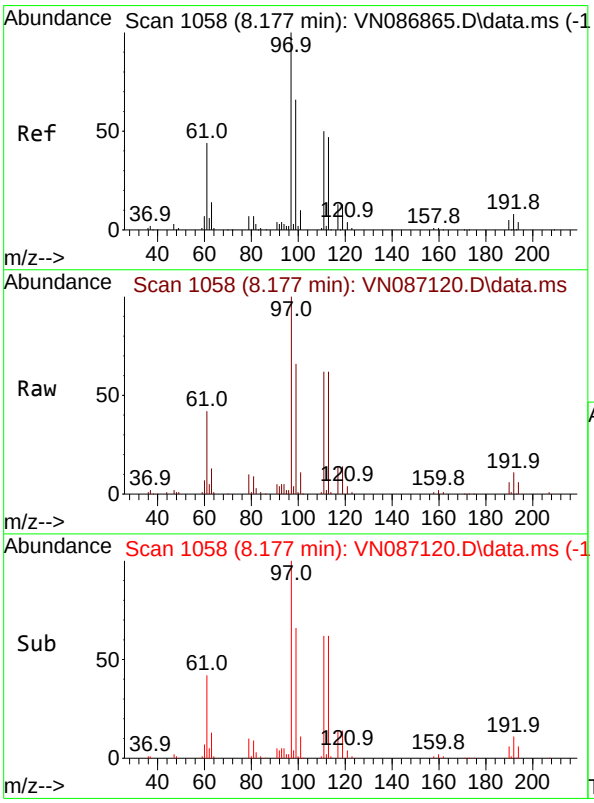
Ion	Ratio	Lower	Upper
56	100		
69	33.1	25.4	38.0
84	93.4	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

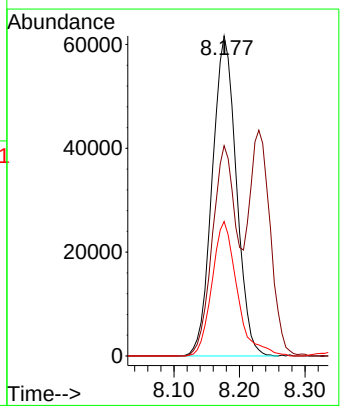
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

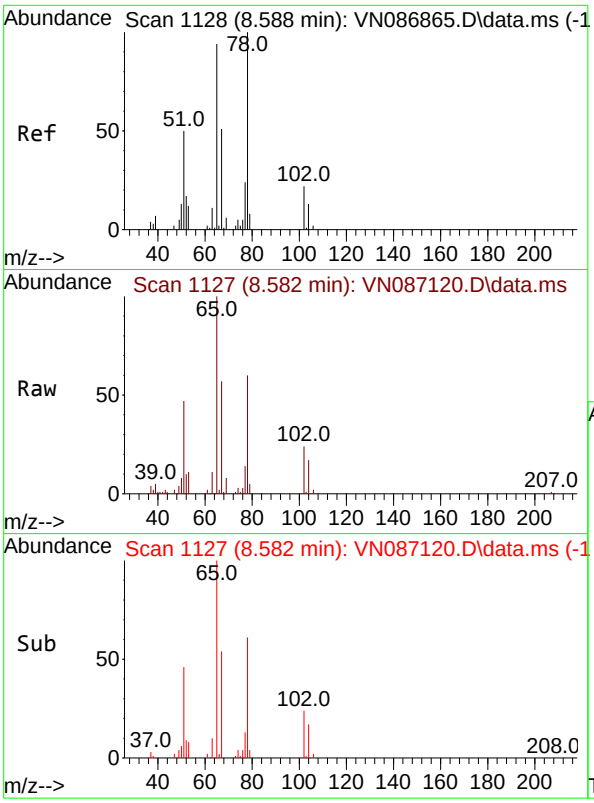


#32
1,1,1-Trichloroethane
Concen: 48.143 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 97 Resp: 157349

Ion	Ratio	Lower	Upper
97	100		
99	67.4	52.0	78.0
61	43.9	35.9	53.9

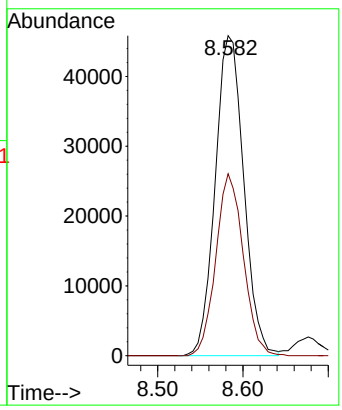




#33
1,2-Dichloroethane-d4
Concen: 46.395 ug/l
RT: 8.582 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 65 Resp: 10674

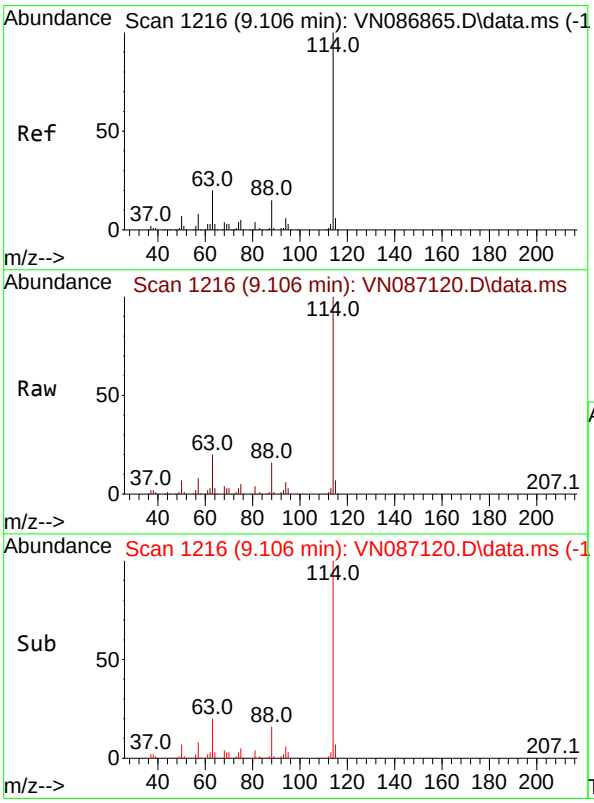
Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

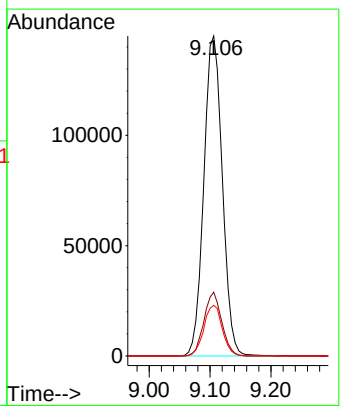
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

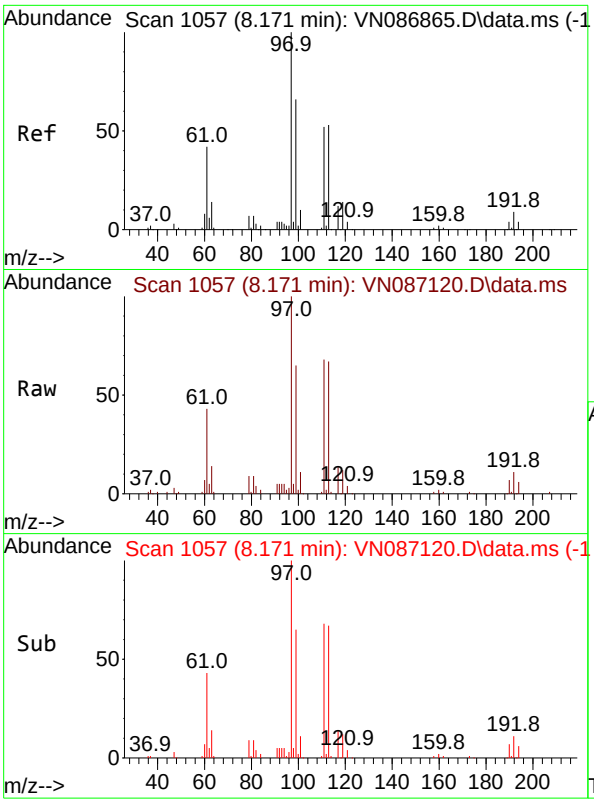


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:114 Resp: 306033

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.6
88	15.8	0.0	30.2

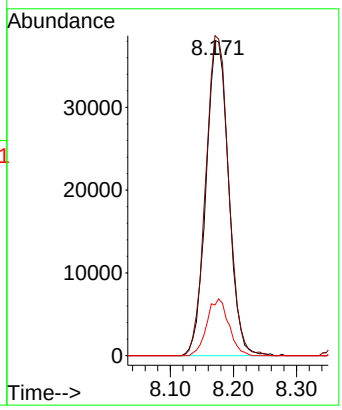




#35
Dibromofluoromethane
Concen: 52.186 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:113 Resp: 9464

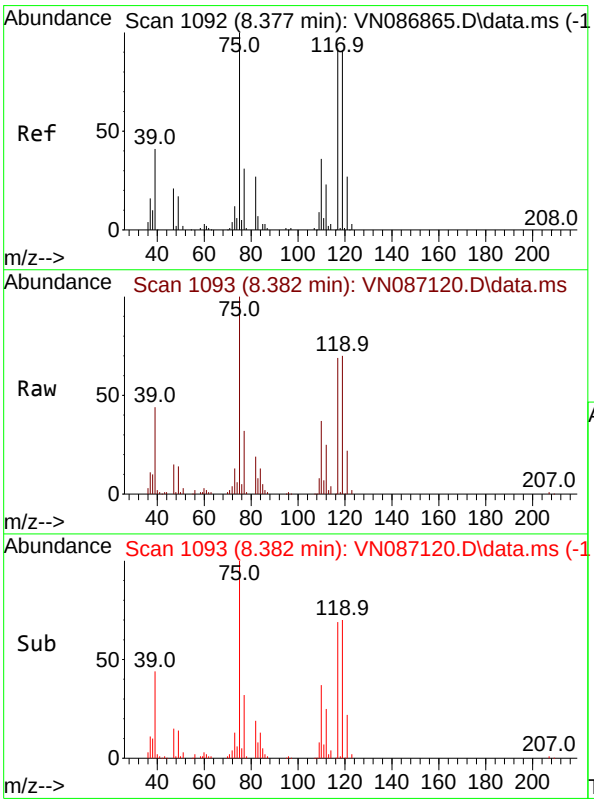
Ion	Ratio	Lower	Upper
113	100		
111	102.9	84.2	126.2
192	17.5	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

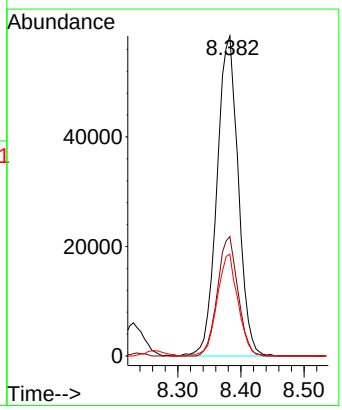
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

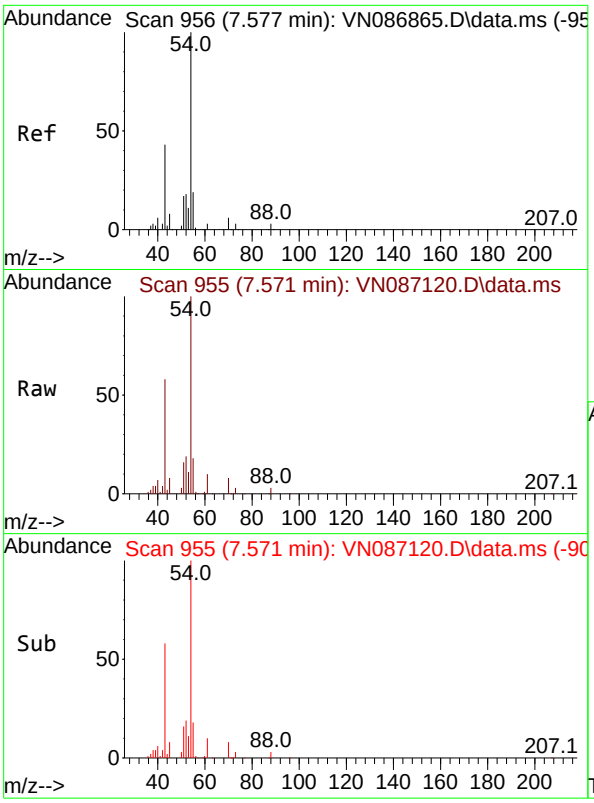


#36
1,1-Dichloropropene
Concen: 50.694 ug/l
RT: 8.382 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 75 Resp: 137000

Ion	Ratio	Lower	Upper
75	100		
110	36.0	17.6	52.9
77	31.1	25.3	37.9





#37
Ethyl Acetate
Concen: 45.793 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

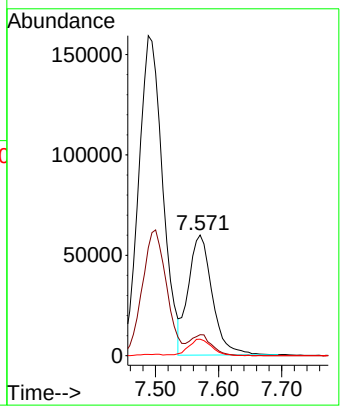
Tgt Ion: 43 Resp: 15753

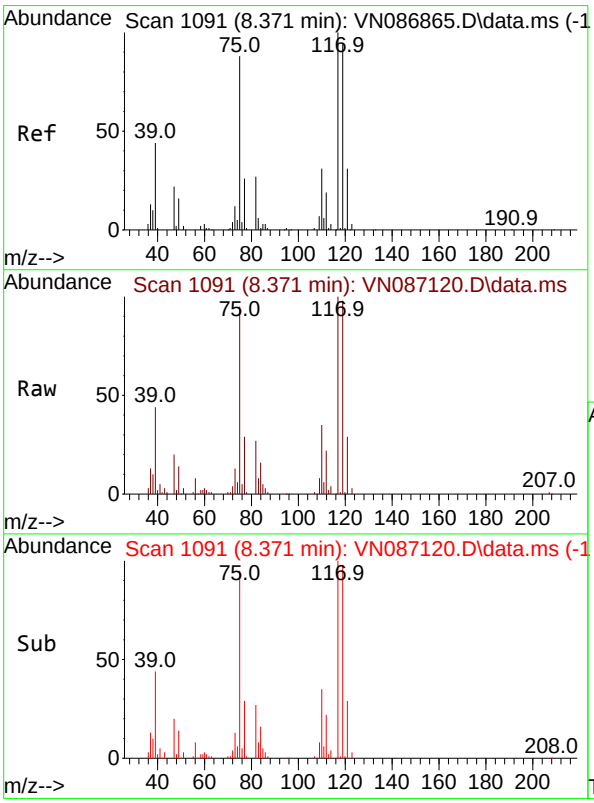
Ion	Ratio	Lower	Upper
43	100		
61	15.5	12.1	18.1
70	13.4	9.8	14.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

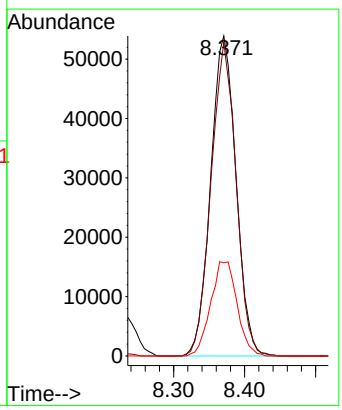


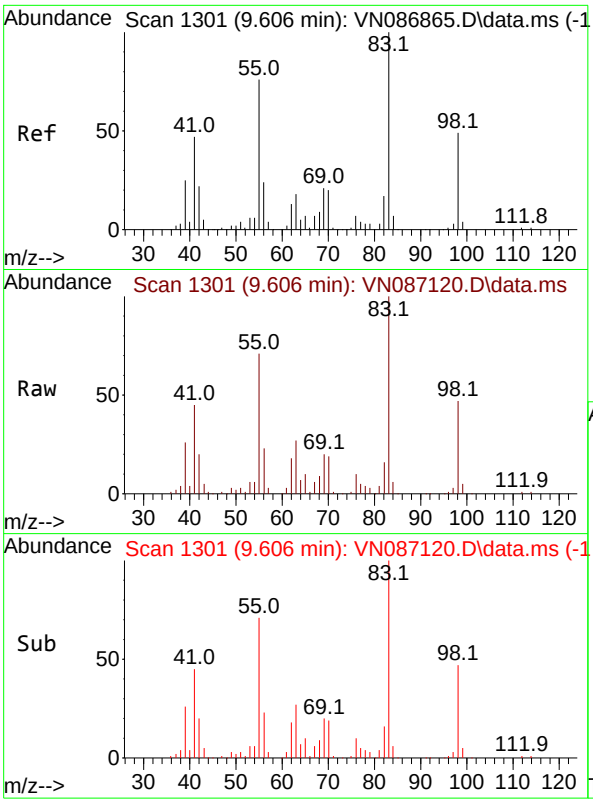


#38
Carbon Tetrachloride
Concen: 50.312 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:117 Resp: 133489

Ion	Ratio	Lower	Upper
117	100		
119	98.0	75.0	112.6
121	29.1	24.9	37.3

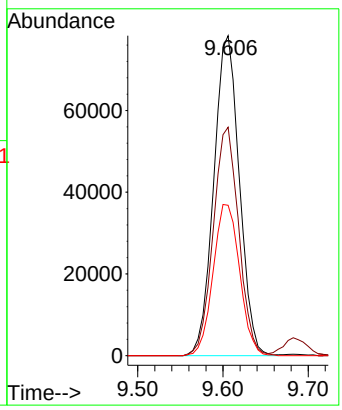




#39
Methylcyclohexane
Concen: 44.143 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 83 Resp: 16343

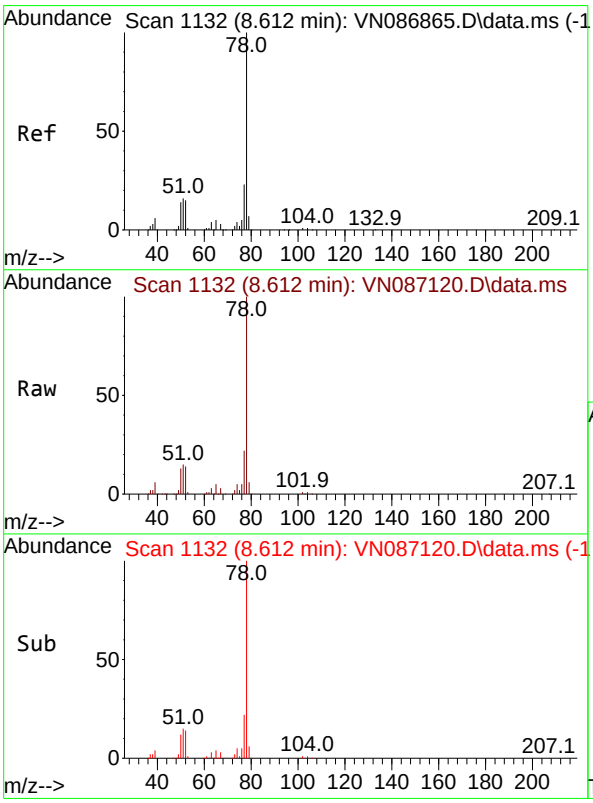
Ion	Ratio	Lower	Upper
83	100		
55	71.4	61.0	91.6
98	47.0	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

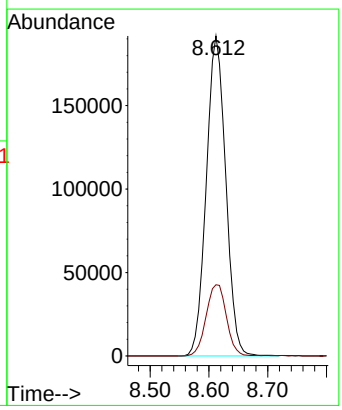
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

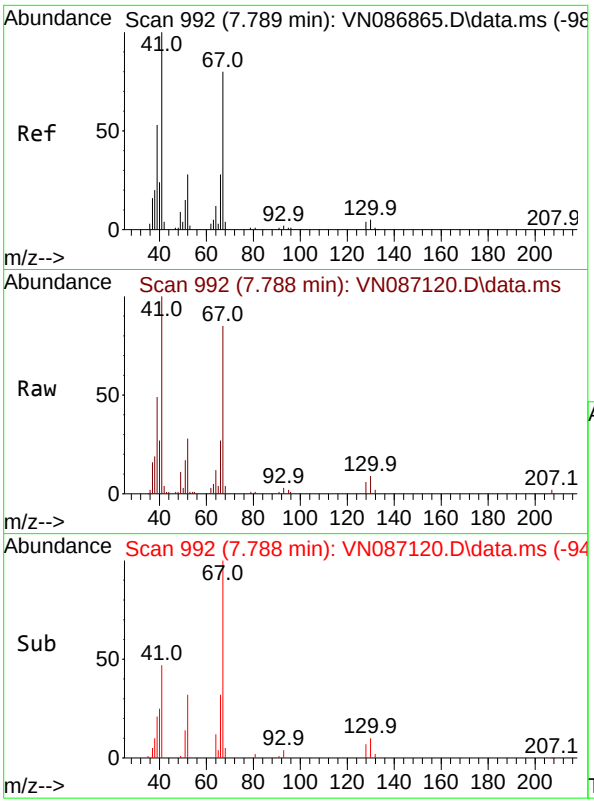


#40
Benzene
Concen: 49.733 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 78 Resp: 439499

Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.7	28.1

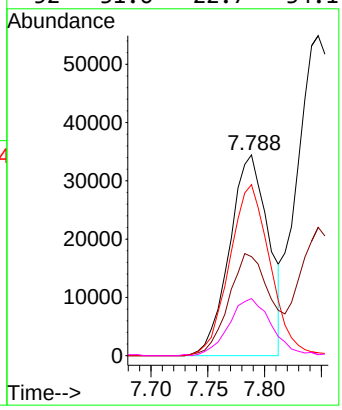




#41
Methacrylonitrile
Concen: 42.608 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 41 Resp: 8232

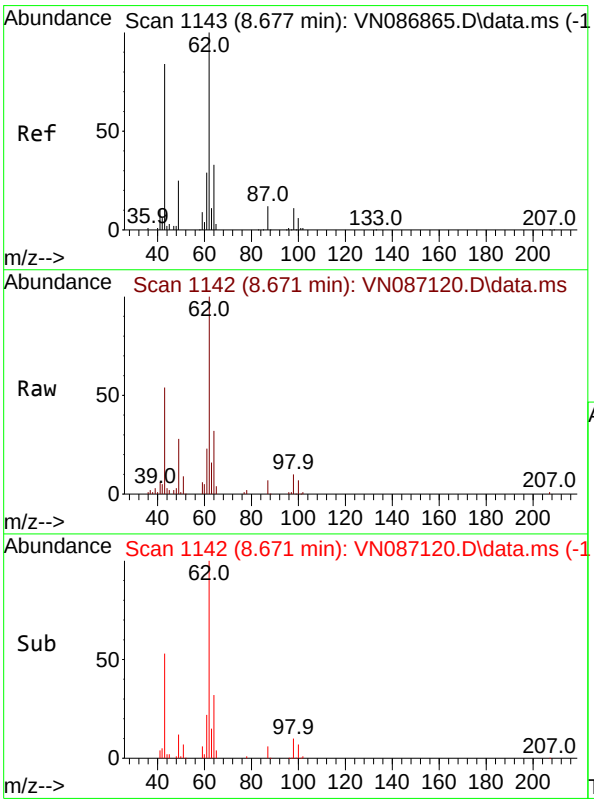
Ion	Ratio	Lower	Upper
41	100		
39	55.1	41.2	61.8
67	89.0	61.4	92.2
52	31.6	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

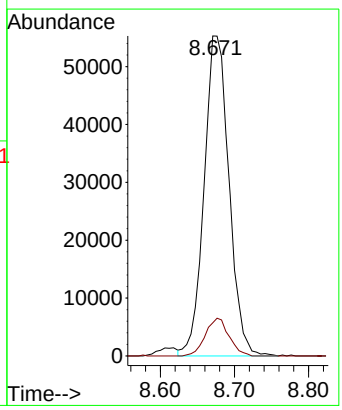
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

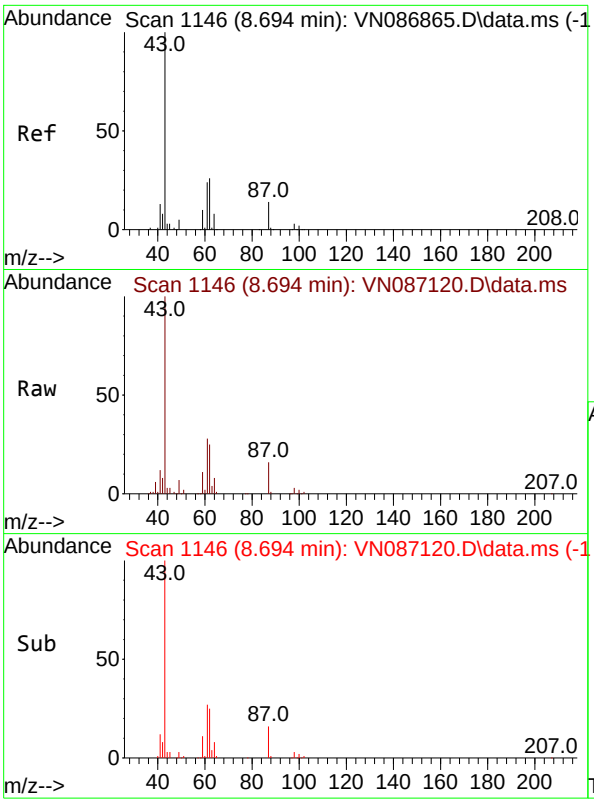


#42
1,2-Dichloroethane
Concen: 48.141 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 62 Resp: 129038

Ion	Ratio	Lower	Upper
62	100		
98	11.2	0.0	21.2





#43
Isopropyl Acetate
Concen: 44.098 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

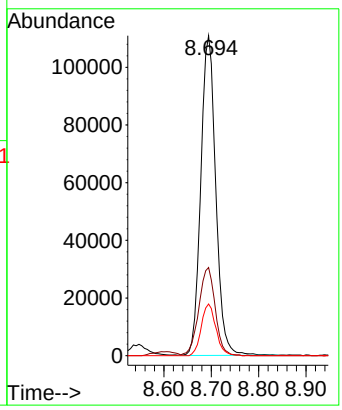
Tgt Ion: 43 Resp: 24349

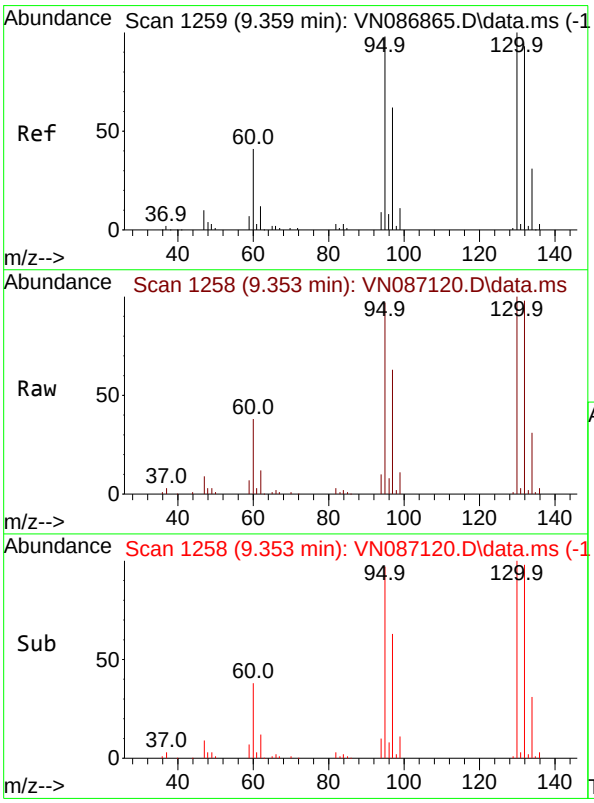
Ion	Ratio	Lower	Upper
43	100		
61	30.2	22.1	33.1
87	15.8	11.8	17.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

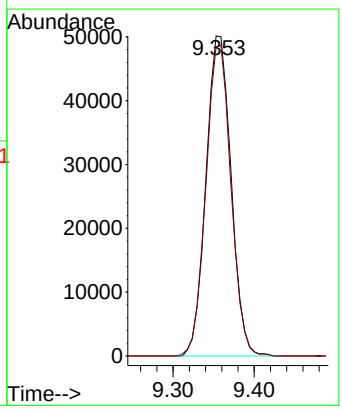


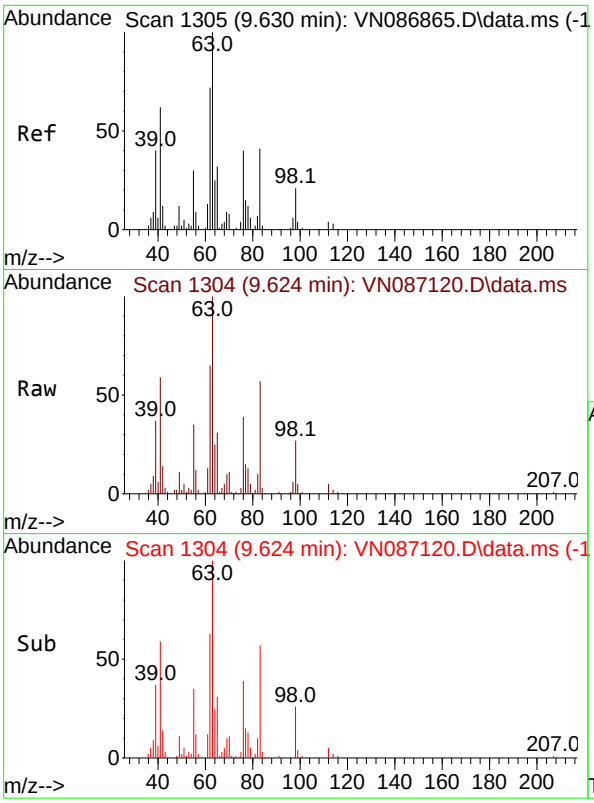


#44
Trichloroethene
Concen: 51.338 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:130 Resp: 107576

Ion	Ratio	Lower	Upper
130	100		
95	96.6	0.0	196.2

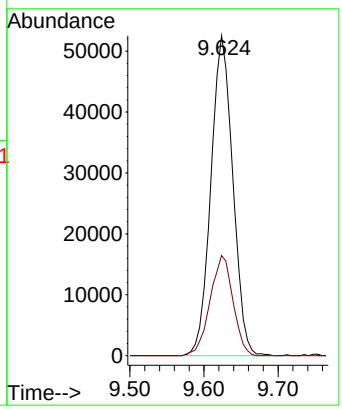




#45
1,2-Dichloropropane
Concen: 50.168 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 63 Resp: 10786

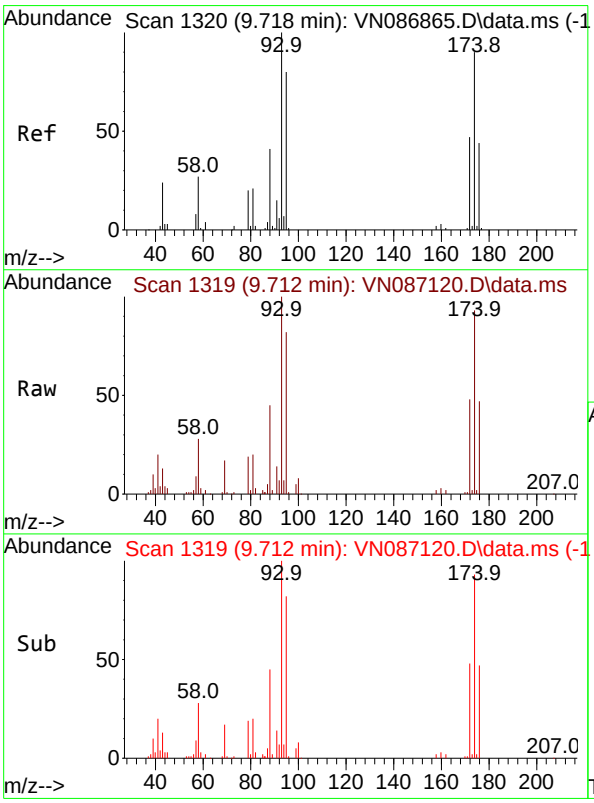
Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

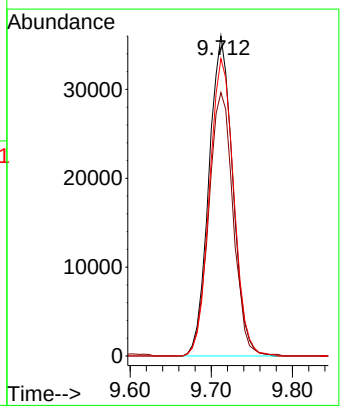
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

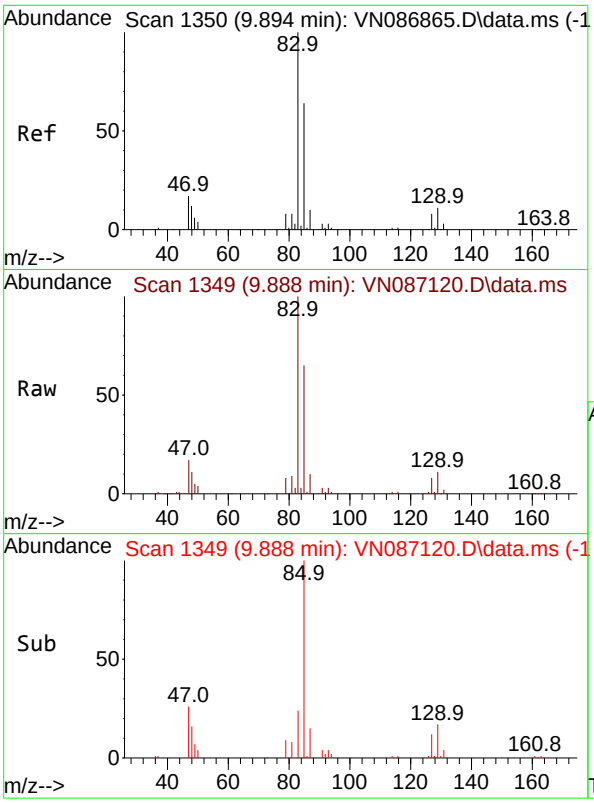


#46
Dibromomethane
Concen: 51.439 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 93 Resp: 73457

Ion	Ratio	Lower	Upper
93	100		
95	84.5	67.1	100.7
174	94.8	74.2	111.4

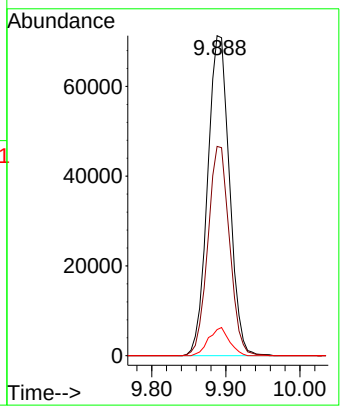




#47
Bromodichloromethane
Concen: 49.542 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 83 Resp: 14556

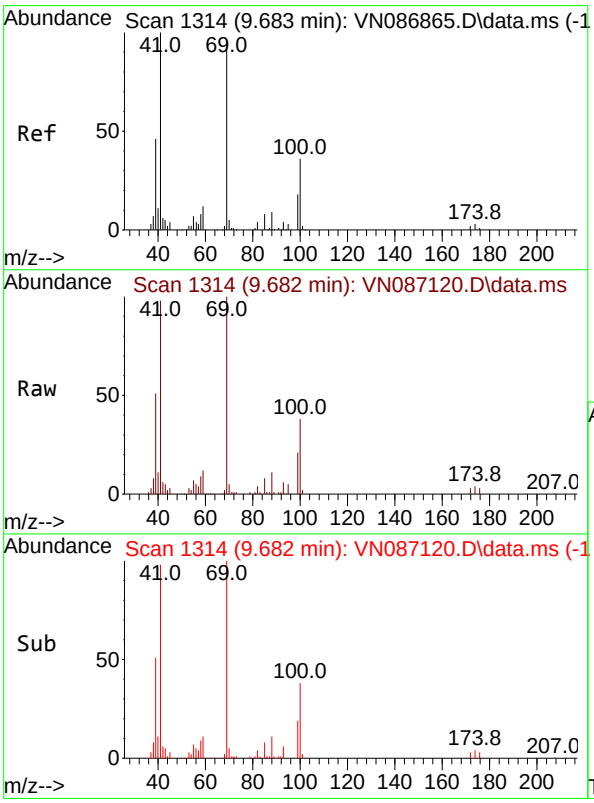
Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.9	76.3
127	8.1	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

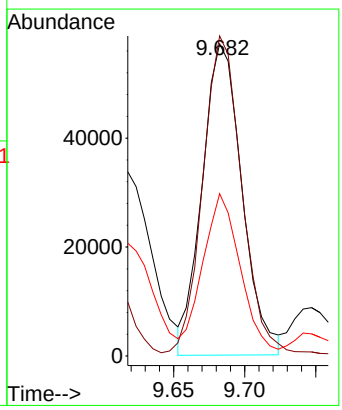
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

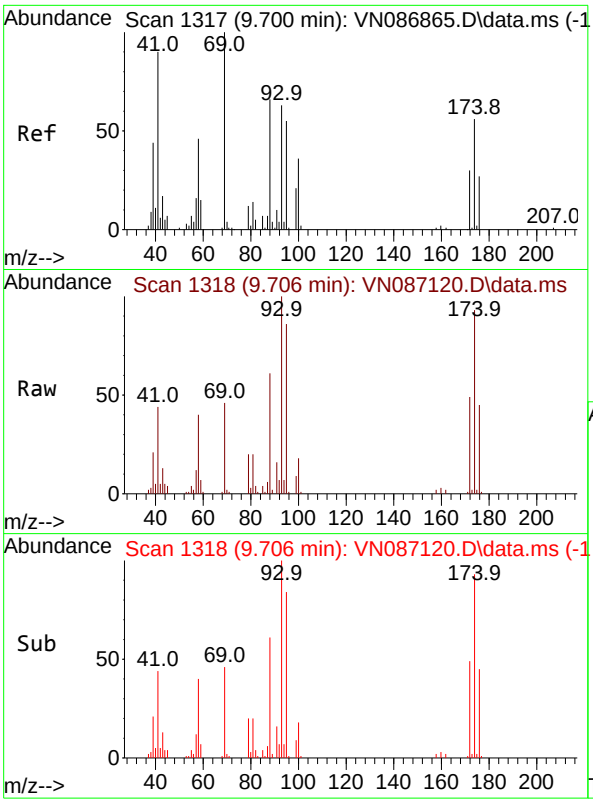


#48
Methyl methacrylate
Concen: 43.897 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 41 Resp: 111561

Ion	Ratio	Lower	Upper
41	100		
69	100.7	74.6	112.0
39	49.9	40.2	60.4

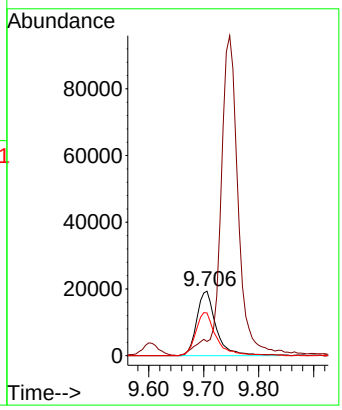




#49
1,4-Dioxane
Concen: 1025.069 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 88 Resp: 4739

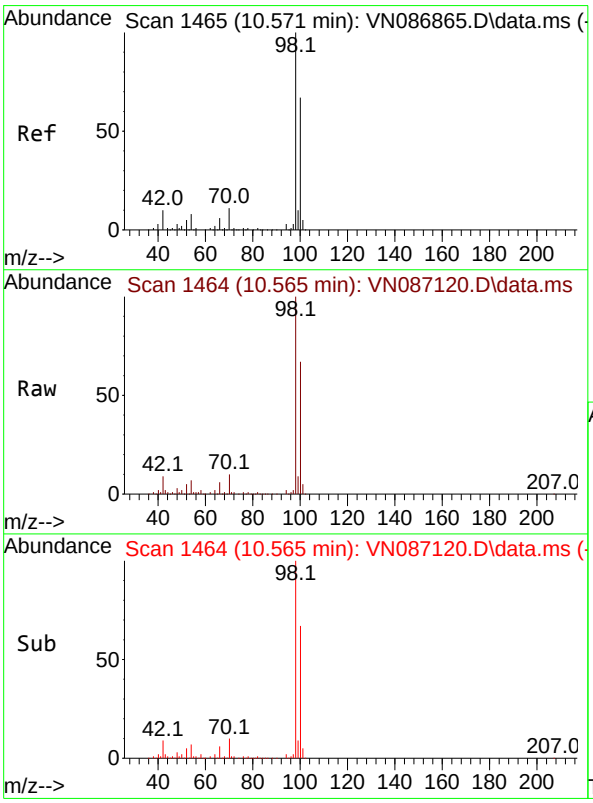
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	70.4	57.7	86.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

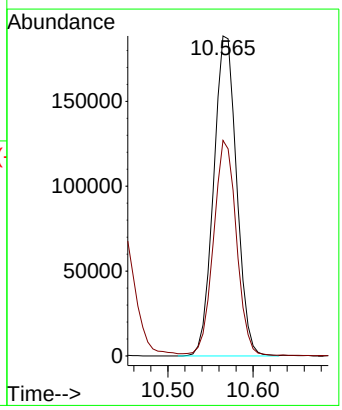
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

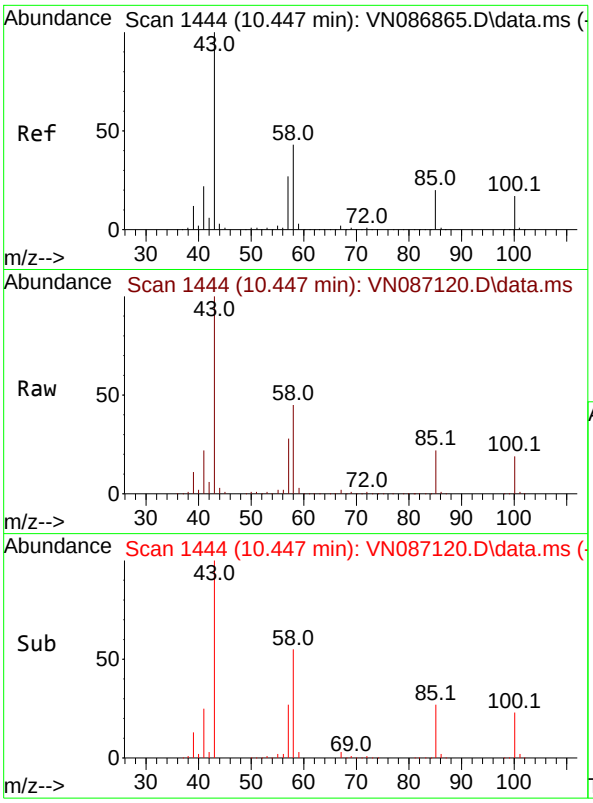


#50
Toluene-d8
Concen: 49.330 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 98 Resp: 354172

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.4	80.0





#51
4-Methyl-2-Pentanone
Concen: 230.578 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

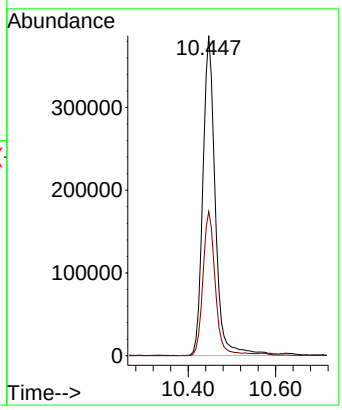
Tgt Ion: 43 Resp: 76645

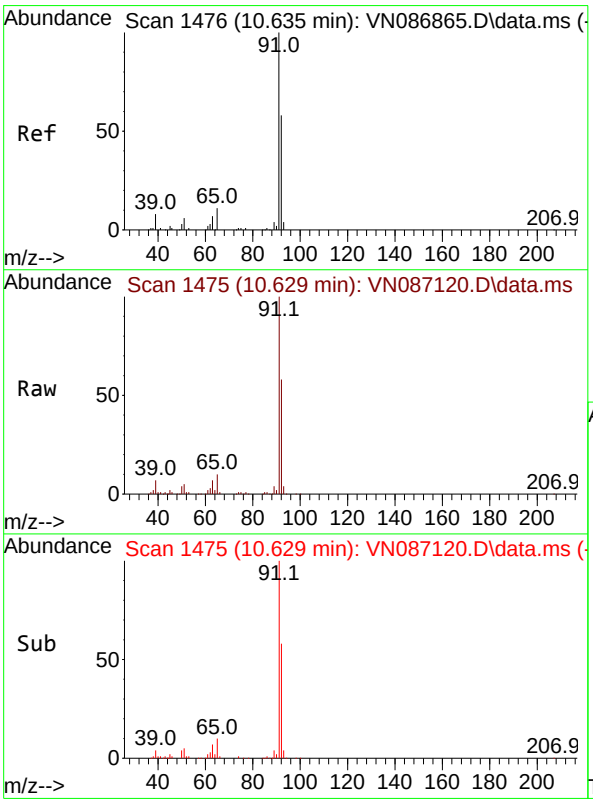
Ion	Ratio	Lower	Upper
43	100		
58	44.9	34.2	51.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

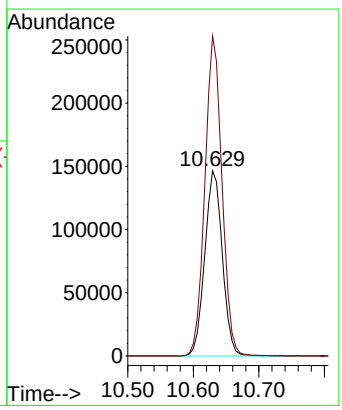


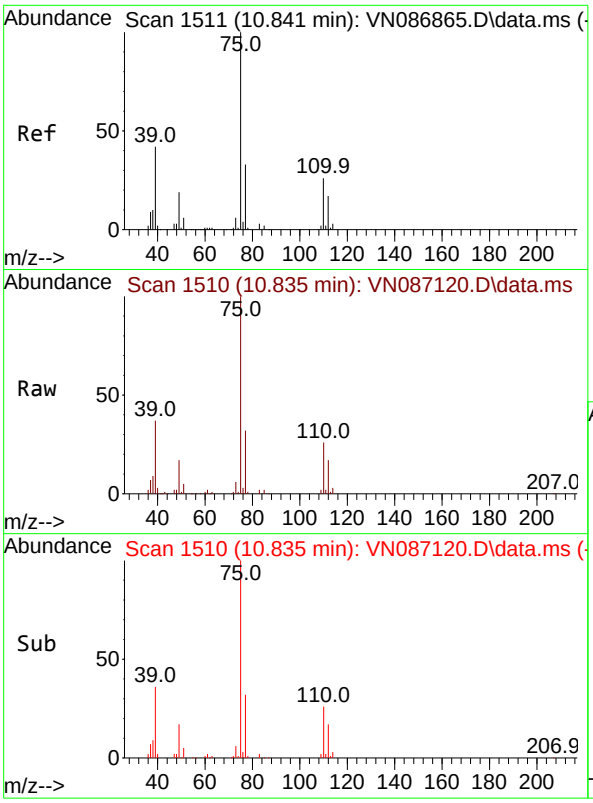


#52
Toluene
Concen: 50.490 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 92 Resp: 272681

Ion	Ratio	Lower	Upper
92	100		
91	168.2	136.5	204.7

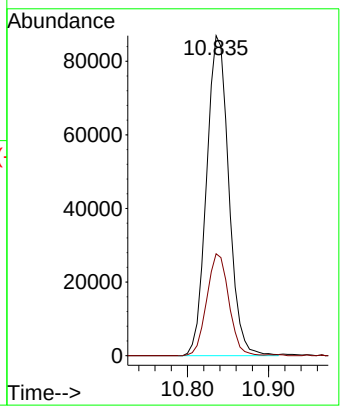




#53
t-1,3-Dichloropropene
Concen: 50.304 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 75 Resp: 16527

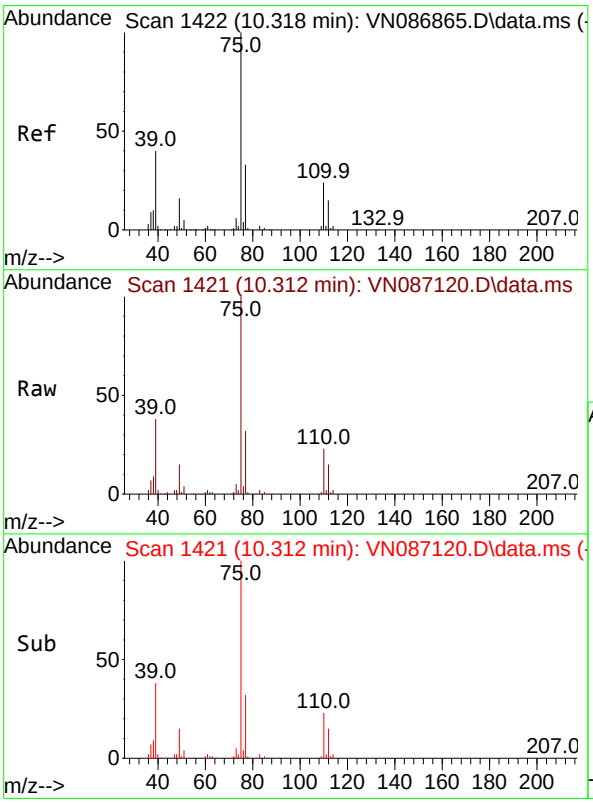
Ion	Ratio	Lower	Upper
75	100		
77	31.8	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

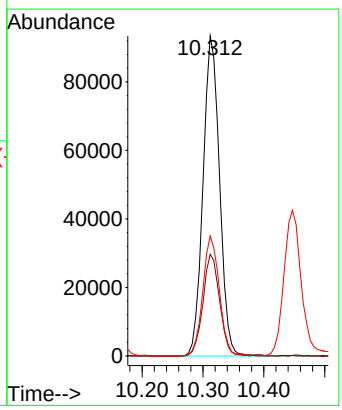
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

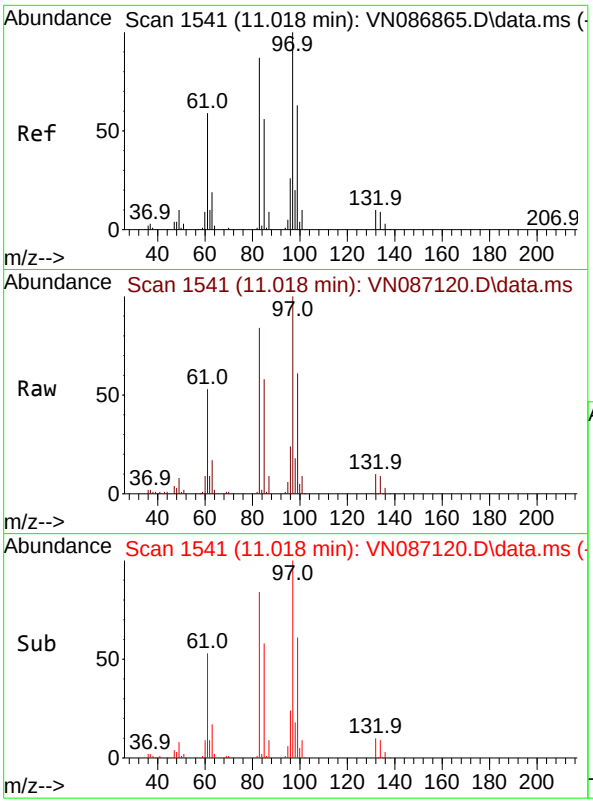


#54
cis-1,3-Dichloropropene
Concen: 50.028 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 75 Resp: 175866

Ion	Ratio	Lower	Upper
75	100		
77	31.8	26.2	39.4
39	37.5	32.3	48.5

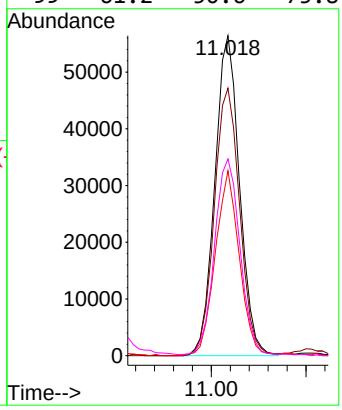




#55
1,1,2-Trichloroethane
Concen: 49.240 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 97 Resp: 10232

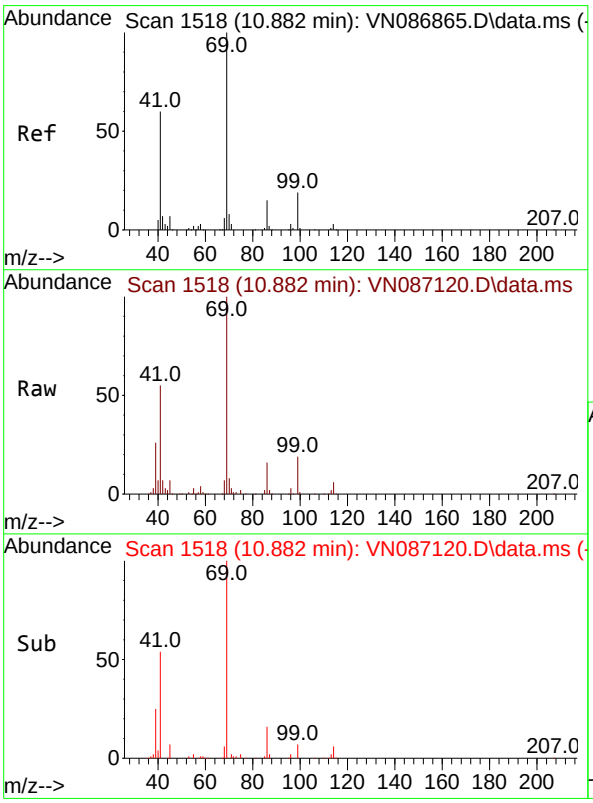
Ion	Ratio	Lower	Upper
97	100		
83	83.6	69.7	104.5
85	57.8	45.1	67.7
99	61.2	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

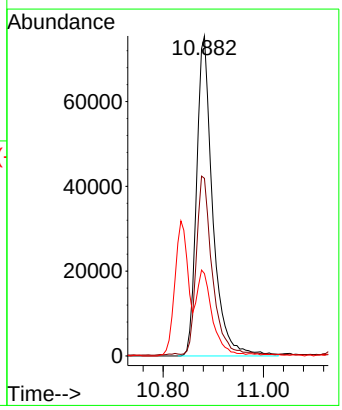
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

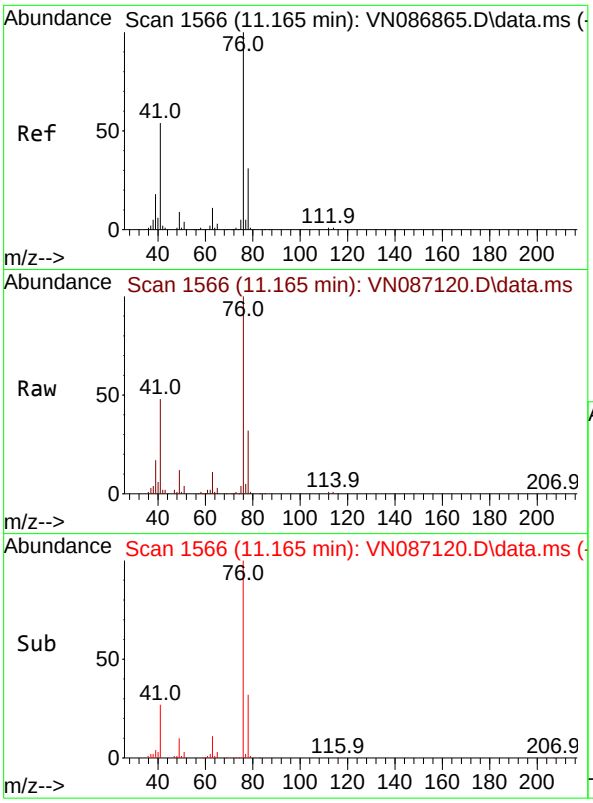


#56
Ethyl methacrylate
Concen: 50.911 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 69 Resp: 168508

Ion	Ratio	Lower	Upper
69	100		
41	55.1	47.2	70.8
39	25.2	23.0	34.6

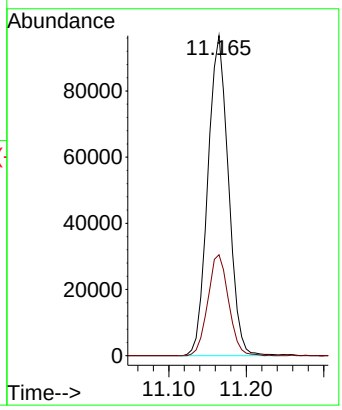




#57
1,3-Dichloropropane
Concen: 49.502 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 76 Resp: 17844

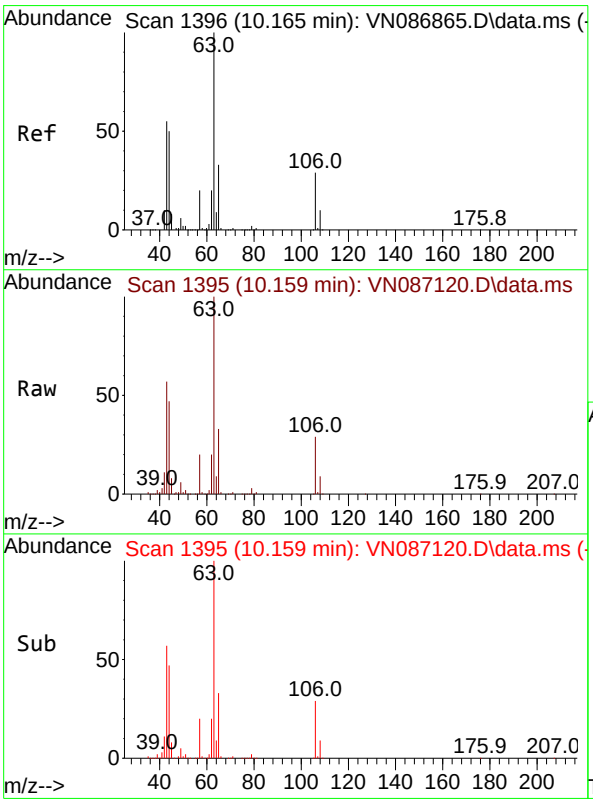
Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

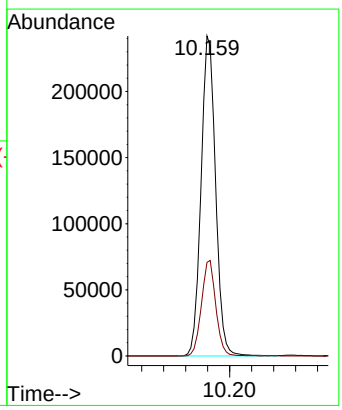
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

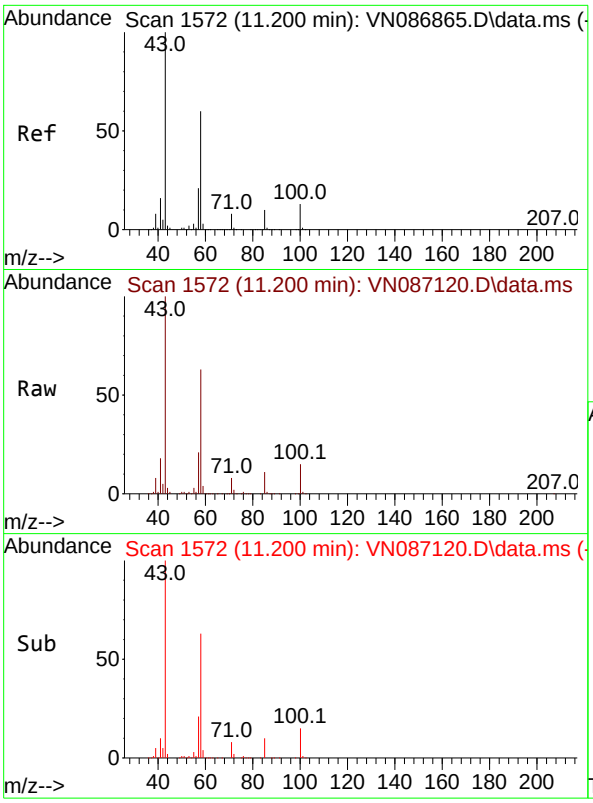


#58
2-Chloroethyl Vinyl ether
Concen: 225.119 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 63 Resp: 444423

Ion	Ratio	Lower	Upper
63	100		
106	29.4	23.0	34.6





#59
2-Hexanone
Concen: 232.920 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

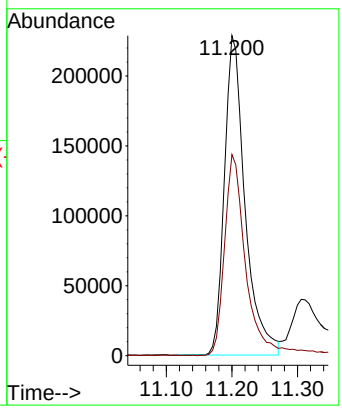
Tgt Ion: 43 Resp: 49871

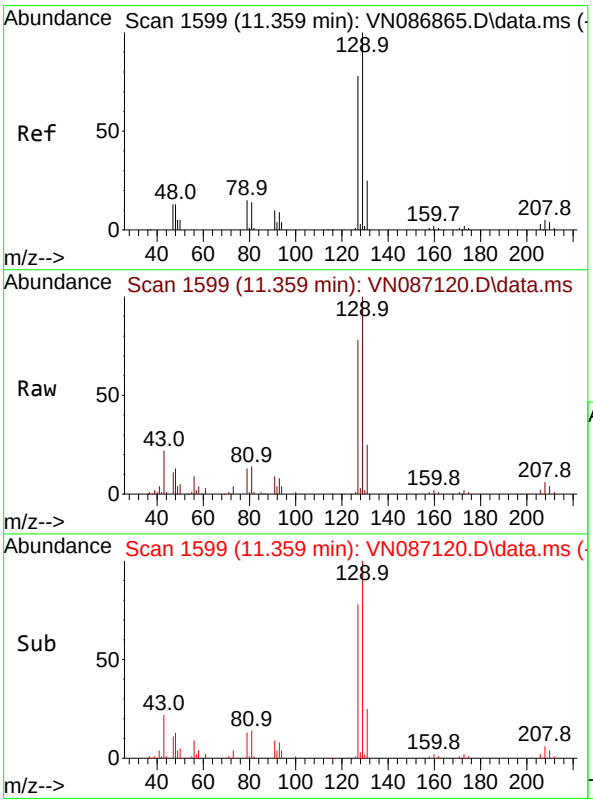
Ion	Ratio	Lower	Upper
43	100		
58	66.2	30.4	91.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

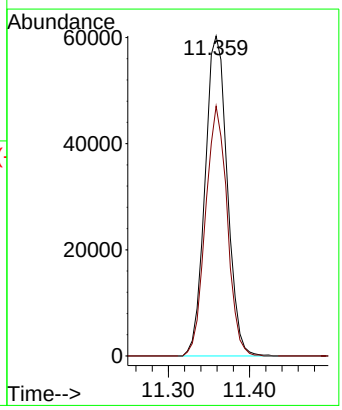


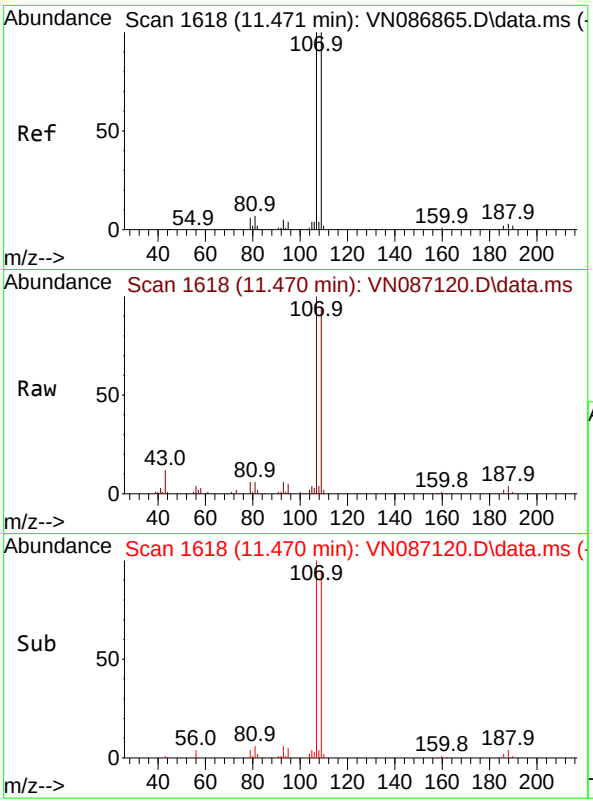


#60
Dibromochloromethane
Concen: 52.840 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:129 Resp: 114404

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.6	115.8

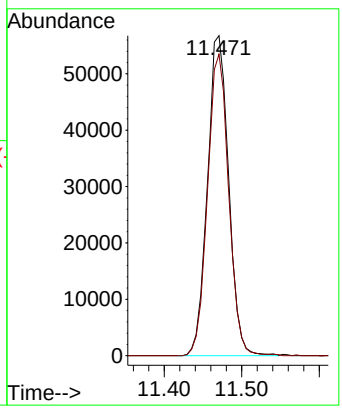




#61
1,2-Dibromoethane
Concen: 50.592 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:107 Resp: 10776

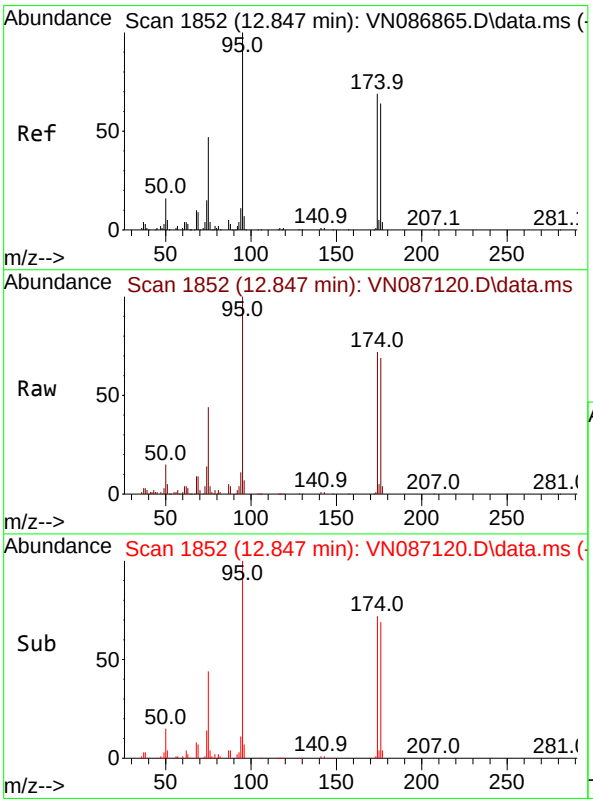
Ion	Ratio	Lower	Upper
107	100		
109	94.1	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

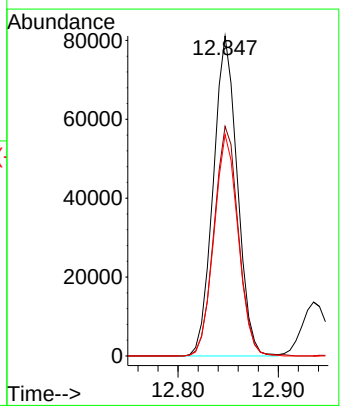
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

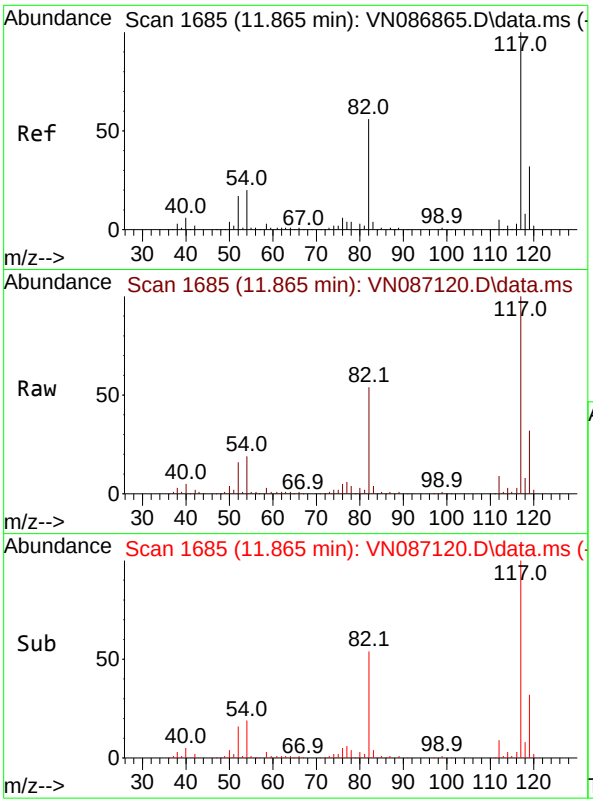


#62
4-Bromofluorobenzene
Concen: 50.563 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 95 Resp: 134875

Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	141.8
176	69.6	0.0	132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

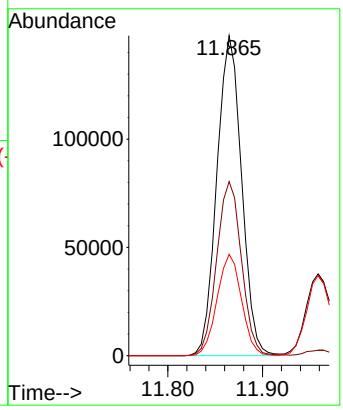
Tgt Ion:117 Resp: 26836

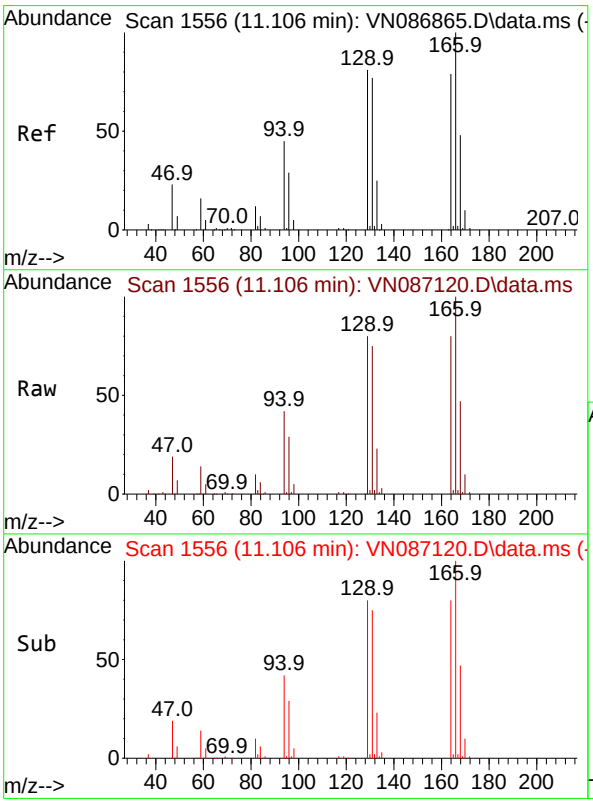
Ion	Ratio	Lower	Upper
117	100		
82	54.4	44.6	67.0
119	31.6	25.5	38.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

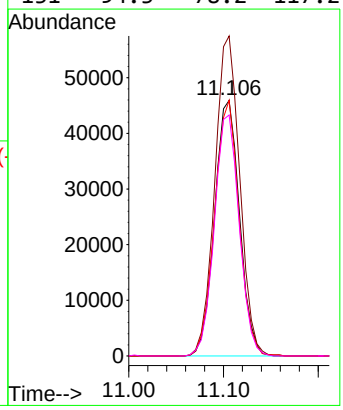


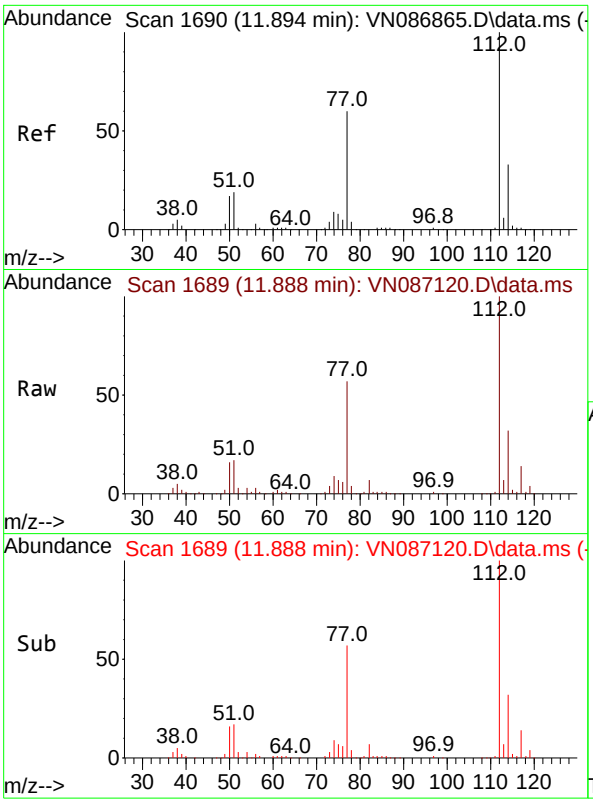


#64
Tetrachloroethene
Concen: 49.473 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:164 Resp: 84024

Ion	Ratio	Lower	Upper
164	100		
166	125.2	101.8	152.8
129	100.0	83.0	124.4
131	94.3	78.2	117.2

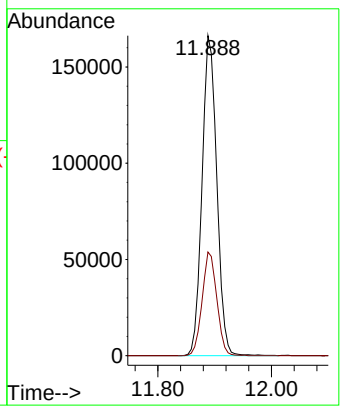




#65
Chlorobenzene
Concen: 50.461 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:112 Resp: 29866

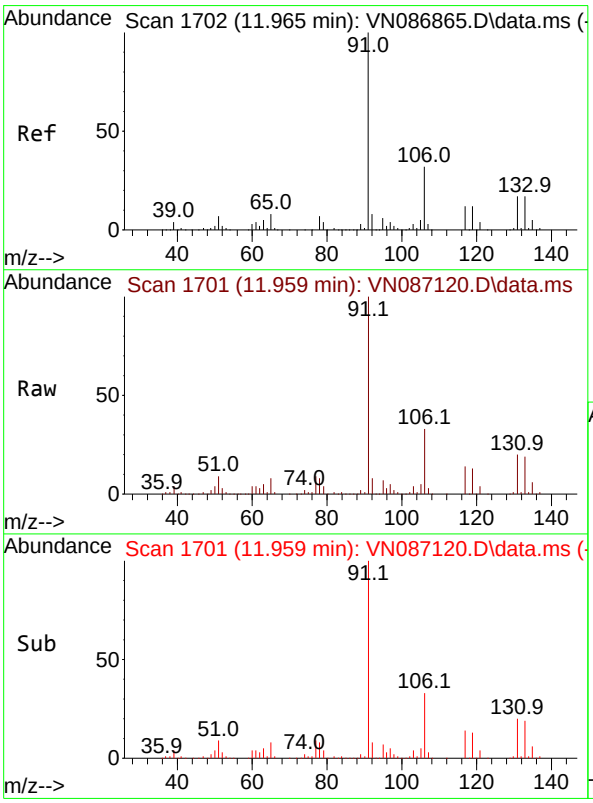
Ion	Ratio	Lower	Upper
112	100		
114	32.4	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

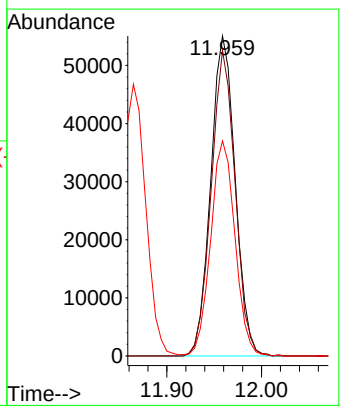
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

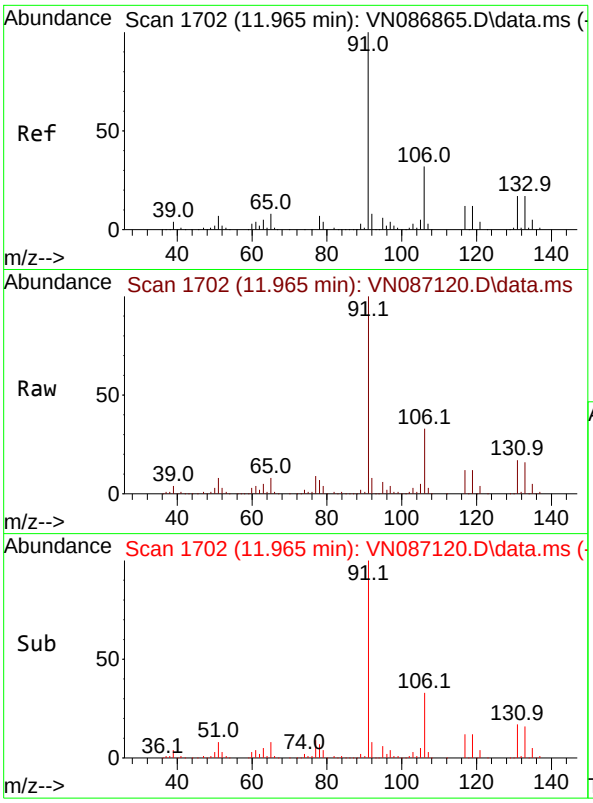


#66
1,1,1,2-Tetrachloroethane
Concen: 51.897 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:131 Resp: 98738

Ion	Ratio	Lower	Upper
131	100		
133	93.7	48.3	144.8
119	67.1	34.0	101.8

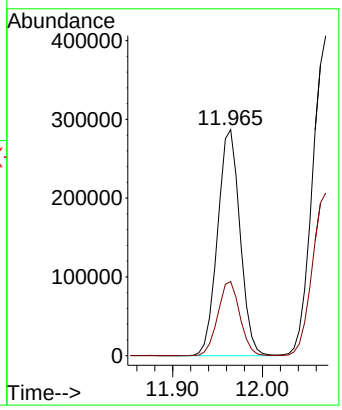




#67
Ethyl Benzene
Concen: 48.860 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 91 Resp: 49812

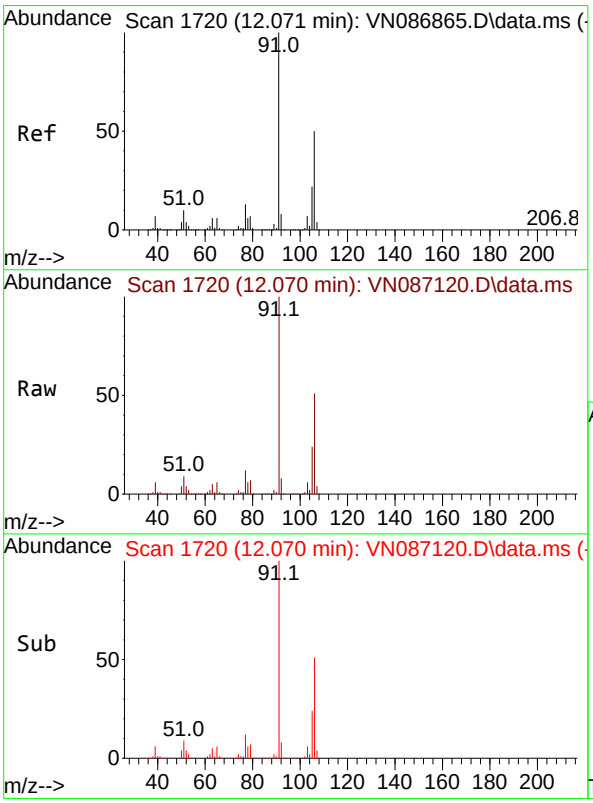
Ion	Ratio	Lower	Upper
91	100		
106	32.8	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

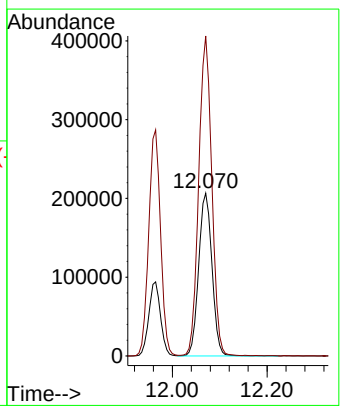
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

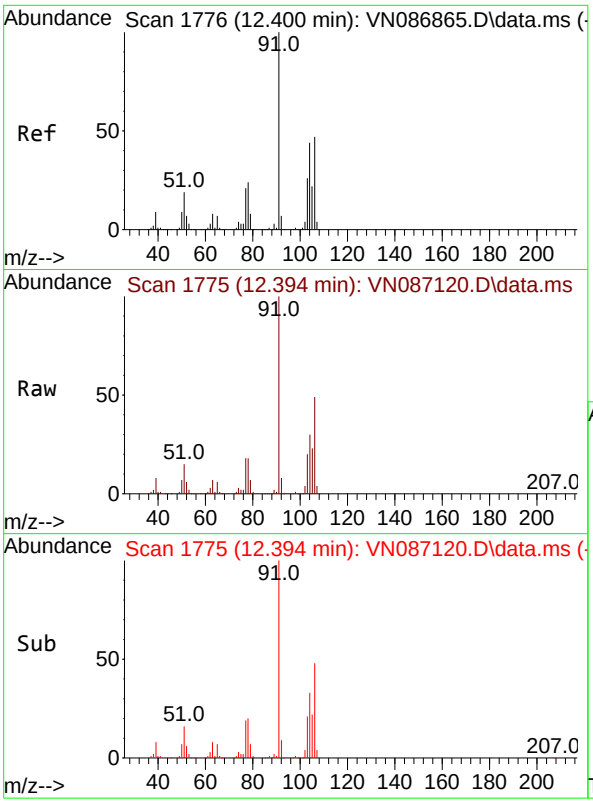


#68
m/p-Xylenes
Concen: 103.171 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:106 Resp: 402639

Ion	Ratio	Lower	Upper
106	100		
91	192.5	159.4	239.0

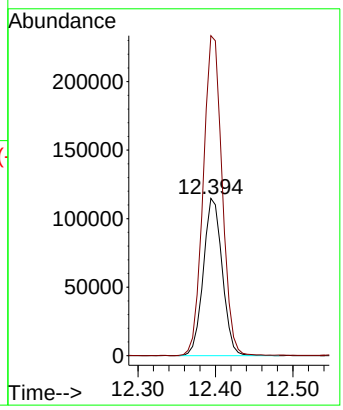




#69
o-Xylene
Concen: 52.041 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:106 Resp: 19451

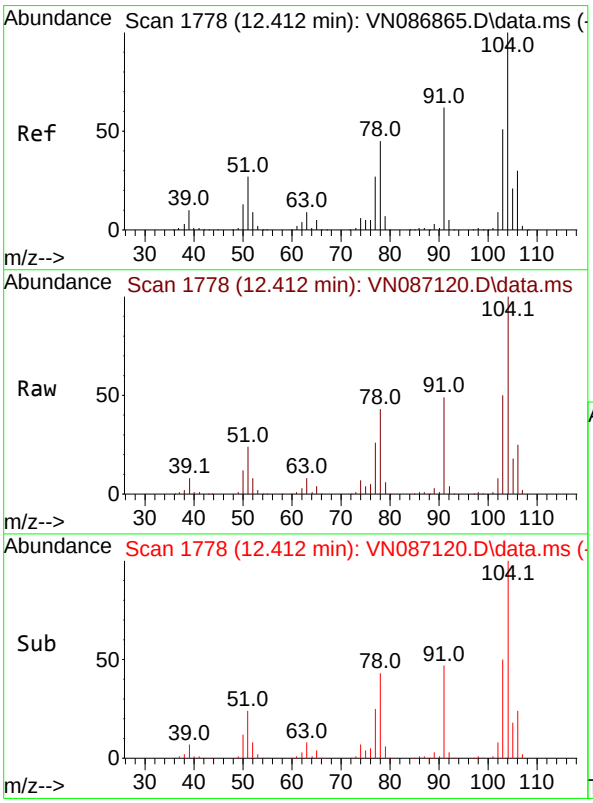
Ion	Ratio	Lower	Upper
106	100		
91	203.8	106.1	318.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

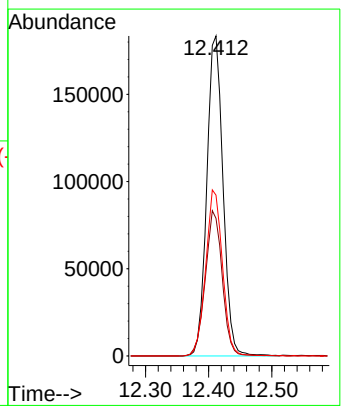
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

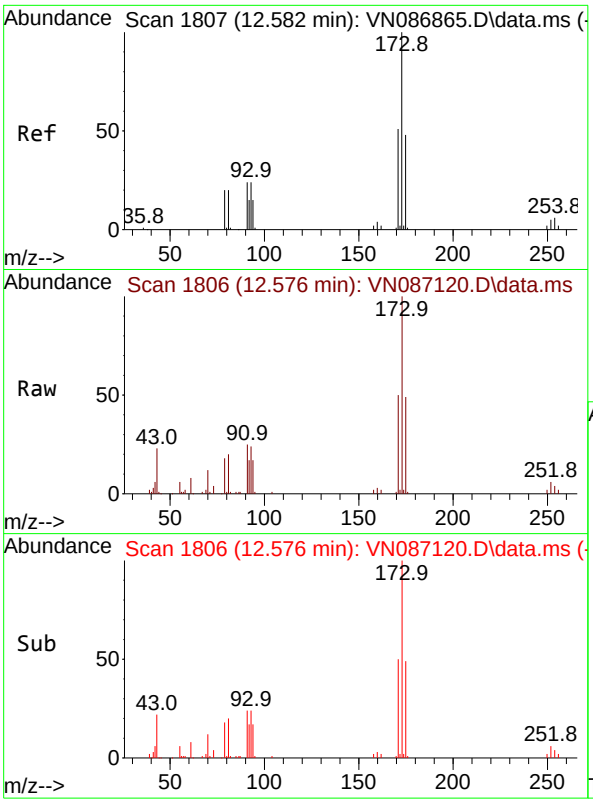


#70
Styrene
Concen: 51.208 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:104 Resp: 327523

Ion	Ratio	Lower	Upper
104	100		
78	47.4	38.5	57.7
103	54.0	43.1	64.7

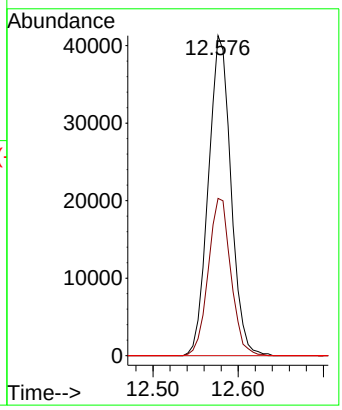




#71
Bromoform
Concen: 53.806 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

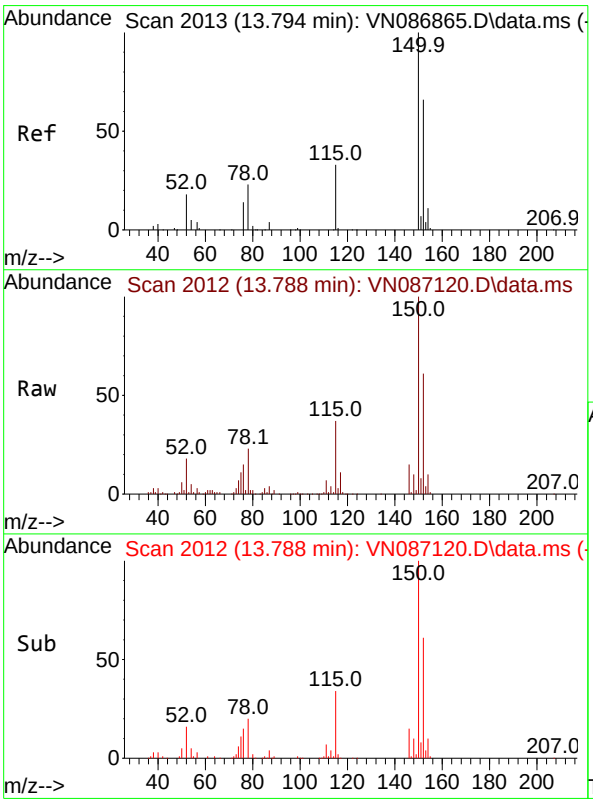
Tgt Ion:173 Resp: 7585

Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

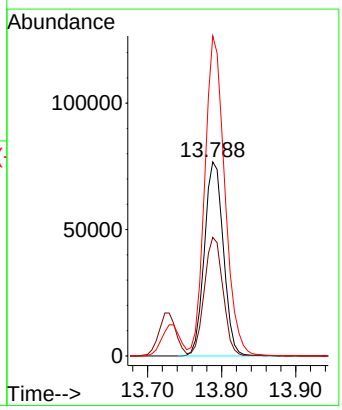
Manual Integrations APPROVED
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

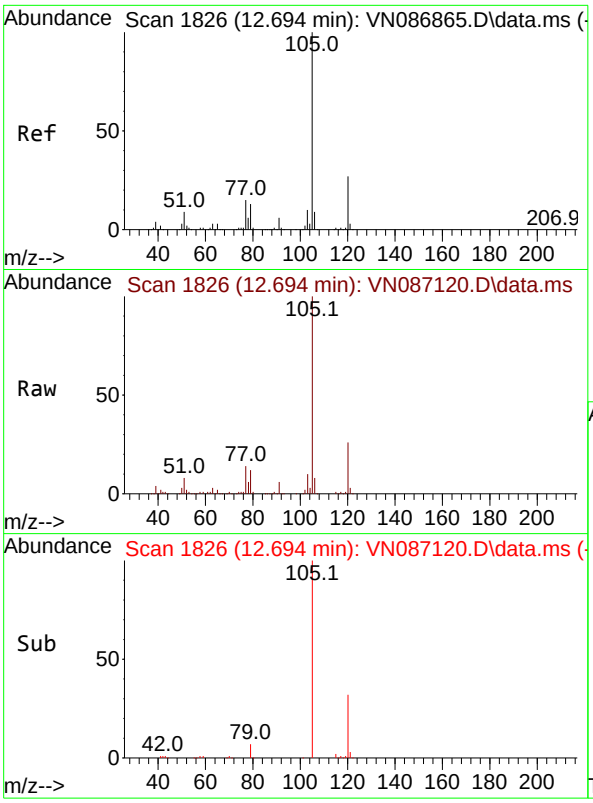


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:152 Resp: 136487

Ion	Ratio	Lower	Upper
152	100		
115	59.6	30.1	90.5
150	174.1	0.0	345.0

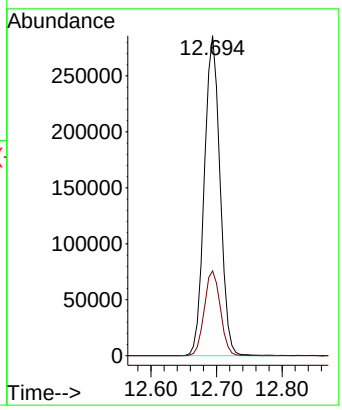




#73
Isopropylbenzene
Concen: 47.874 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:105 Resp: 47601

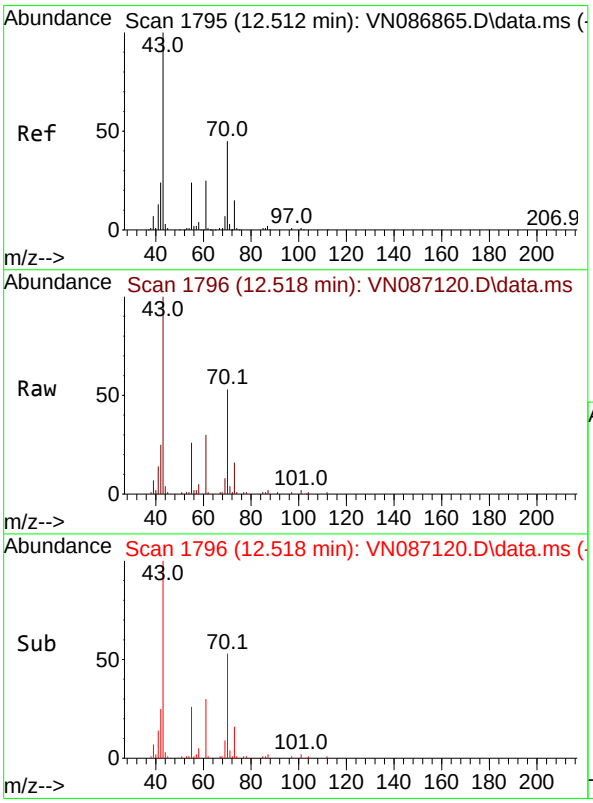
Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations APPROVED

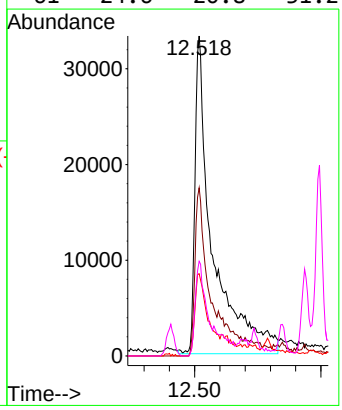
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

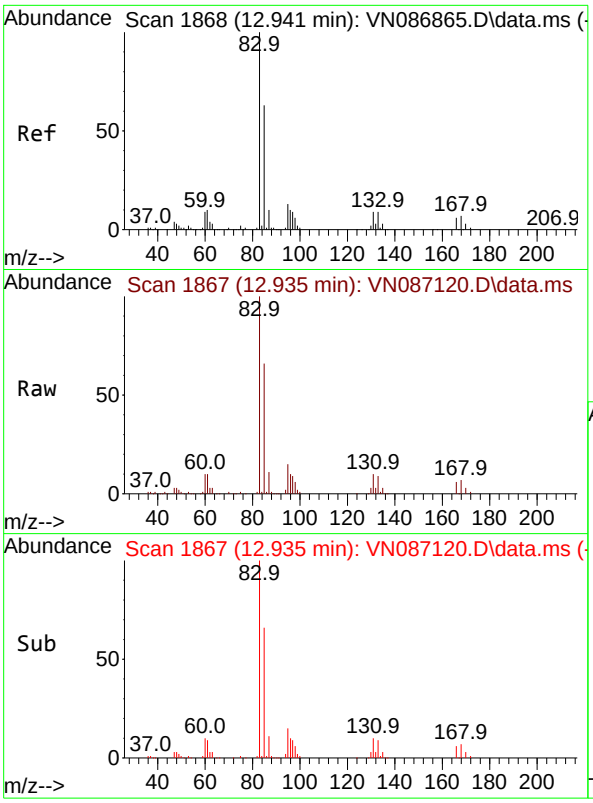


#74
N-amyl acetate
Concen: 46.341 ug/l m
RT: 12.518 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 43 Resp: 161016

Ion	Ratio	Lower	Upper
43	100		
70	34.9	37.6	56.4#
55	19.1	19.0	28.6
61	24.6	20.8	31.2

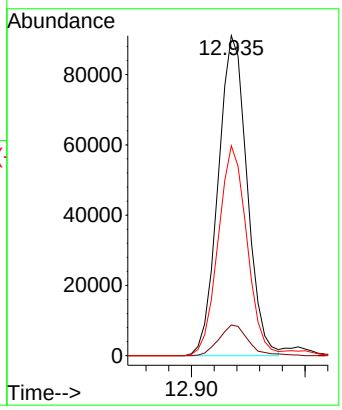




#75
1,1,2,2-Tetrachloroethane
Concen: 47.714 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 83 Resp: 16072

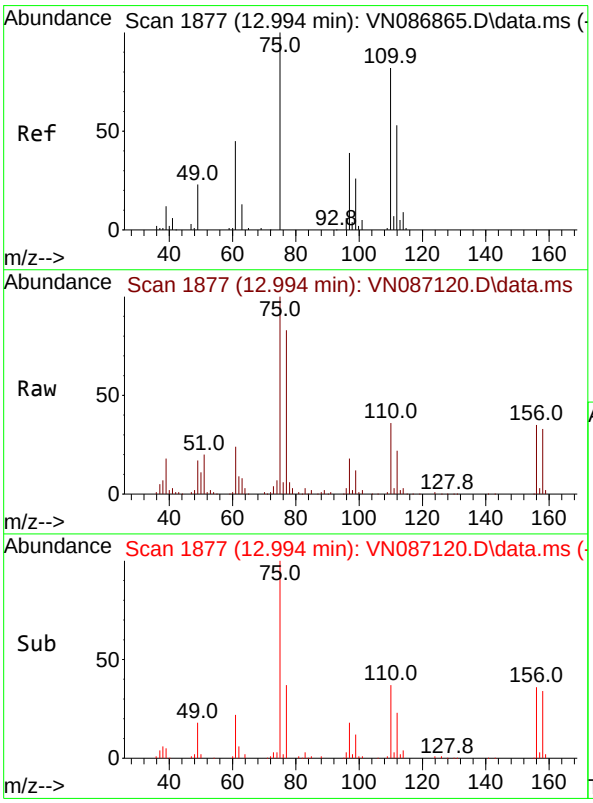
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	65.5	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

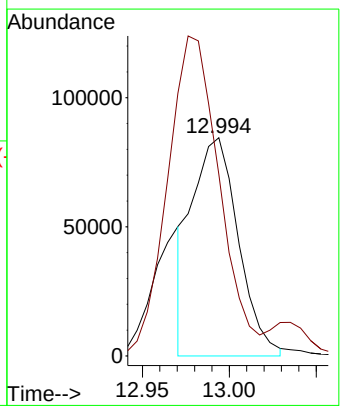
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

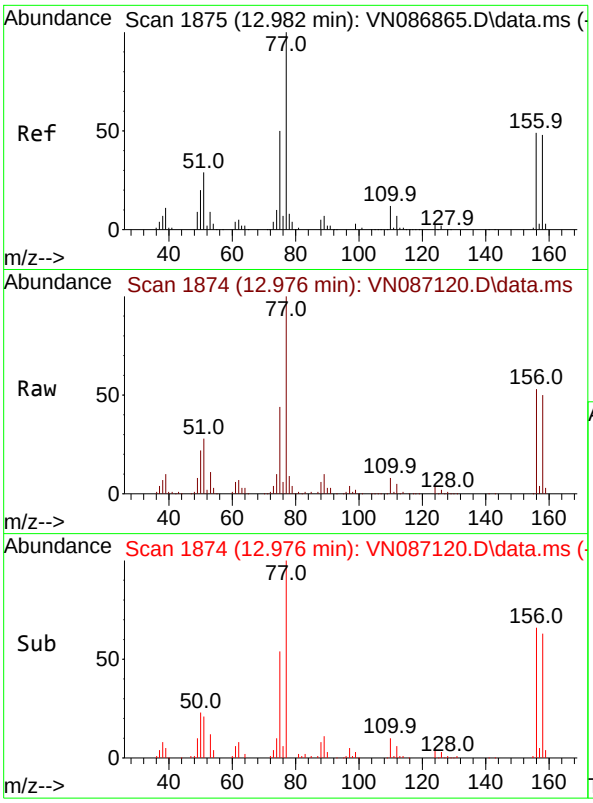


#76
1,2,3-Trichloropropane
Concen: 48.046 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 75 Resp: 155878

Ion	Ratio	Lower	Upper
75	100		
77	165.1	79.3	237.9

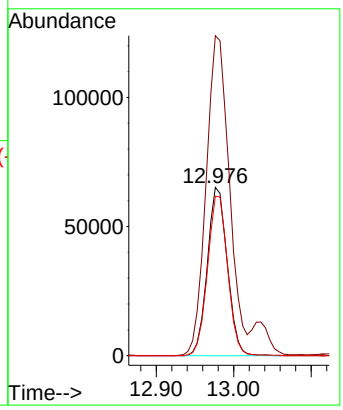




#77
Bromobenzene
Concen: 51.165 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:156 Resp: 11667

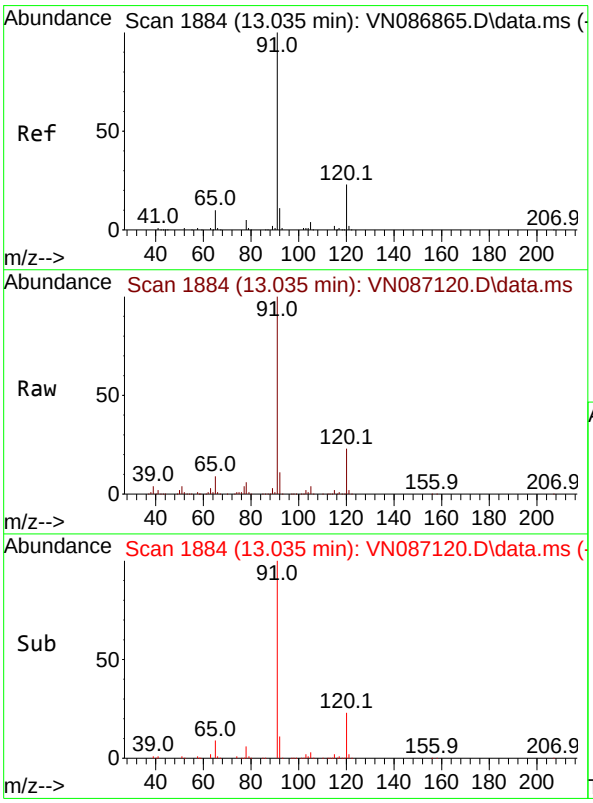
Ion	Ratio	Lower	Upper
156	100		
77	220.6	117.7	353.1
158	95.7	48.1	144.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

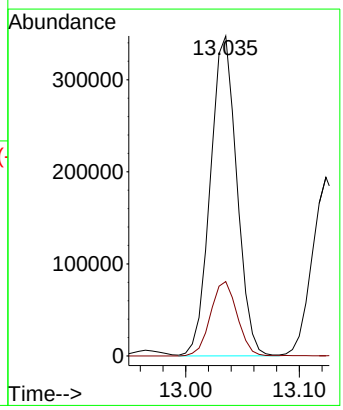
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

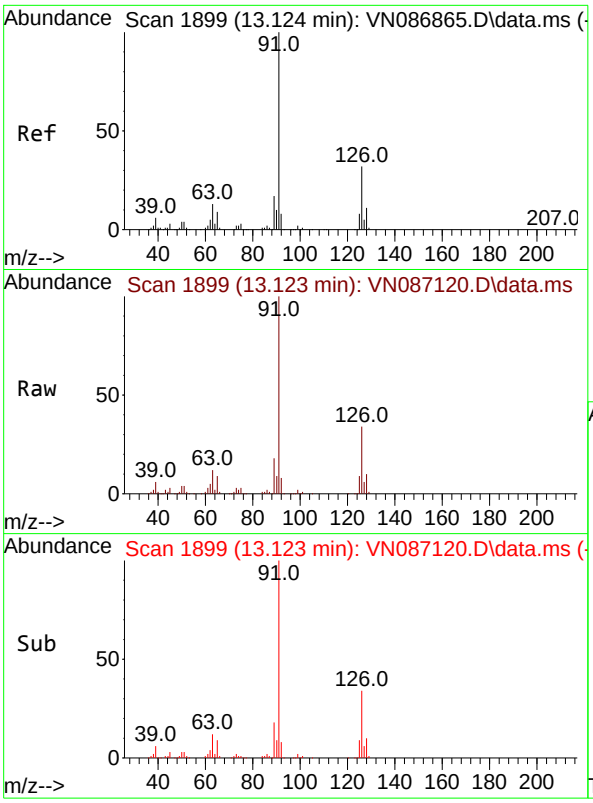


#78
n-propylbenzene
Concen: 46.638 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 91 Resp: 563557

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.4	34.2

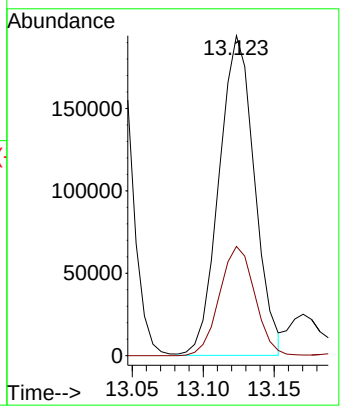




#79
2-Chlorotoluene
Concen: 46.477 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 91 Resp: 33680

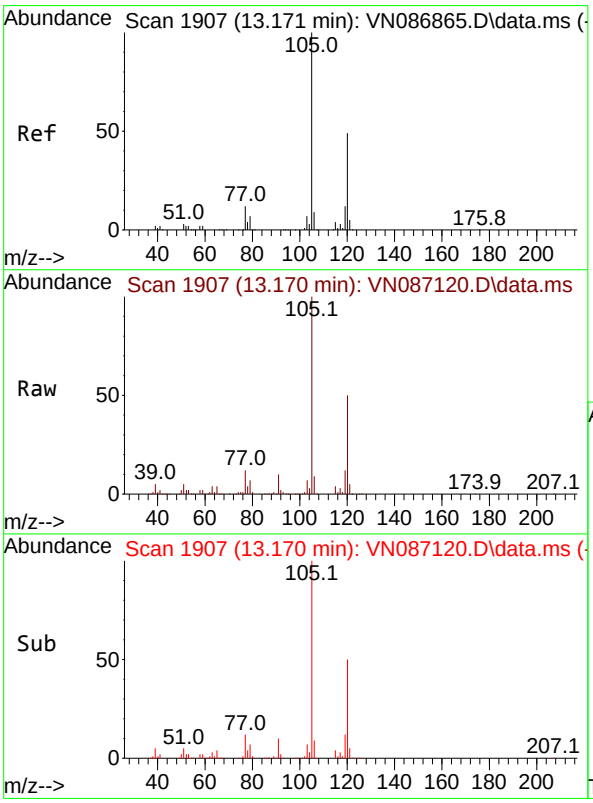
Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.2	48.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

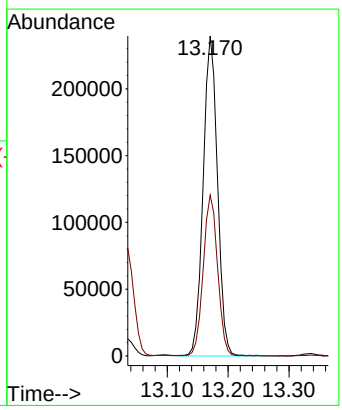
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

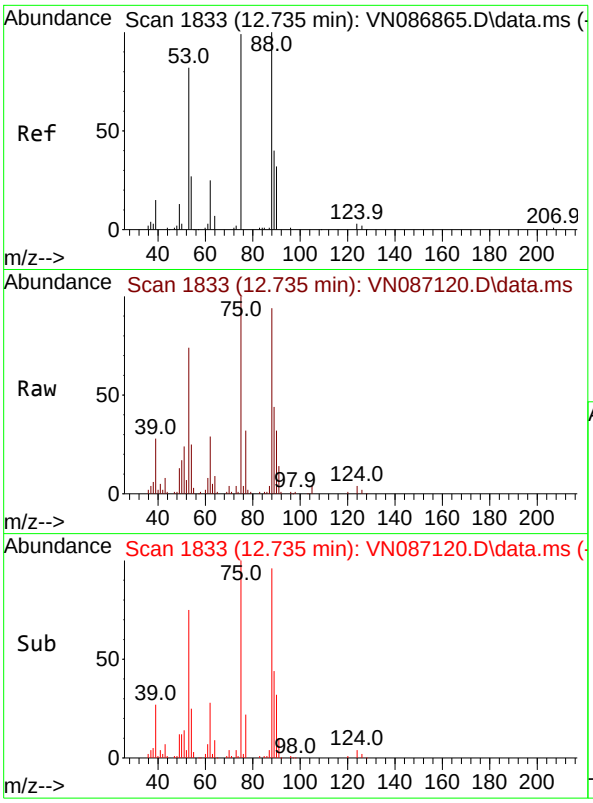


#80
1,3,5-Trimethylbenzene
Concen: 47.807 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:105 Resp: 392465

Ion	Ratio	Lower	Upper
105	100		
120	50.4	24.9	74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 48.329 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

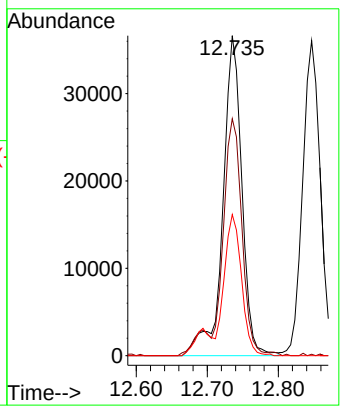
Tgt Ion: 75 Resp: 6811

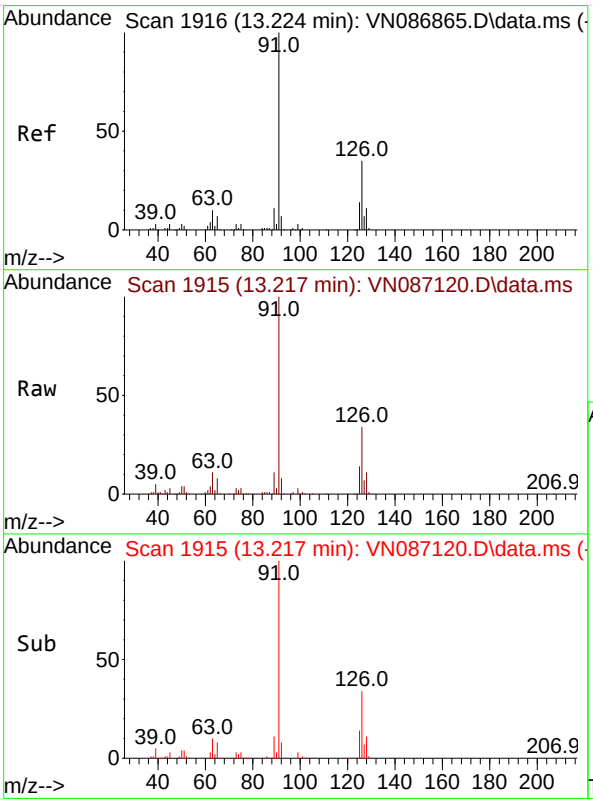
Ion	Ratio	Lower	Upper
75	100		
53	71.4	66.6	99.8
89	39.6	36.7	55.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

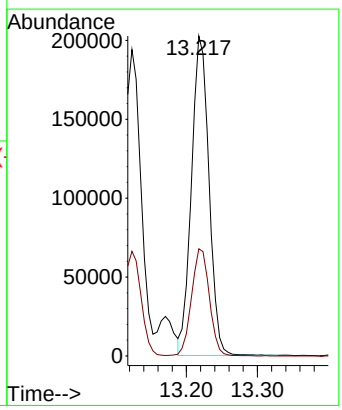


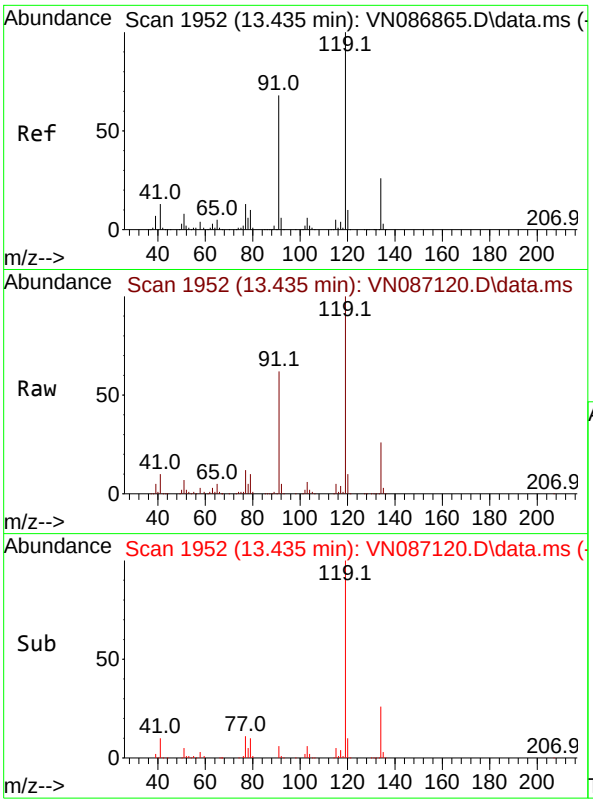


#82
4-Chlorotoluene
Concen: 47.356 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 91 Resp: 347235

Ion	Ratio	Lower	Upper
91	100		
126	34.4	16.7	50.1

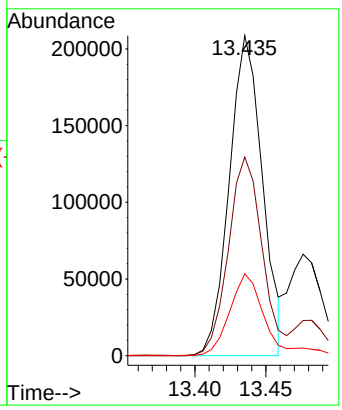




#83
tert-Butylbenzene
Concen: 44.991 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:119 Resp: 33809

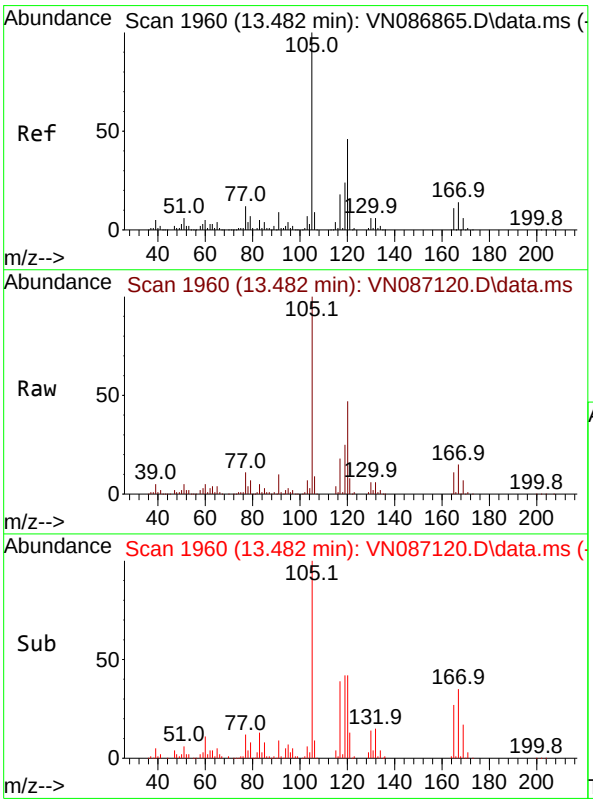
Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.1	96.5
134	27.4	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

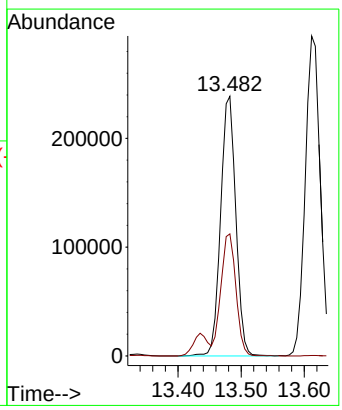
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

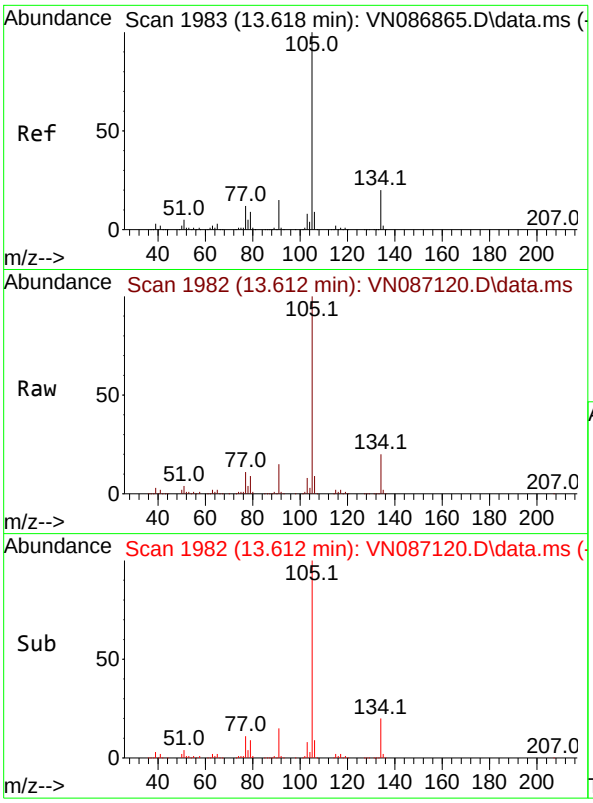


#84
1,2,4-Trimethylbenzene
Concen: 48.443 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:105 Resp: 398780

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.2	69.6





#85
sec-Butylbenzene
Concen: 44.538 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

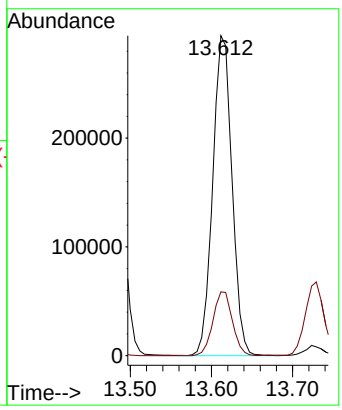
Tgt Ion:105 Resp: 48603

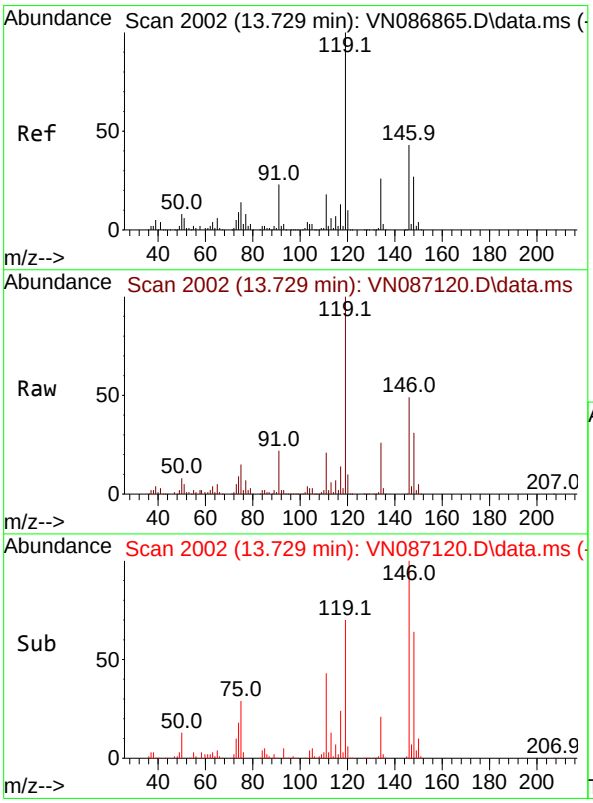
Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

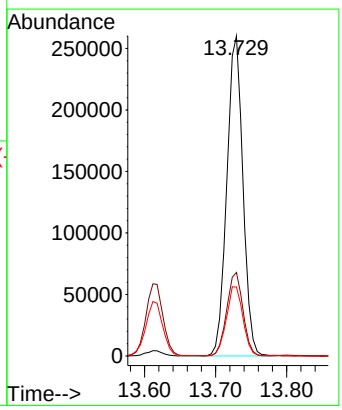


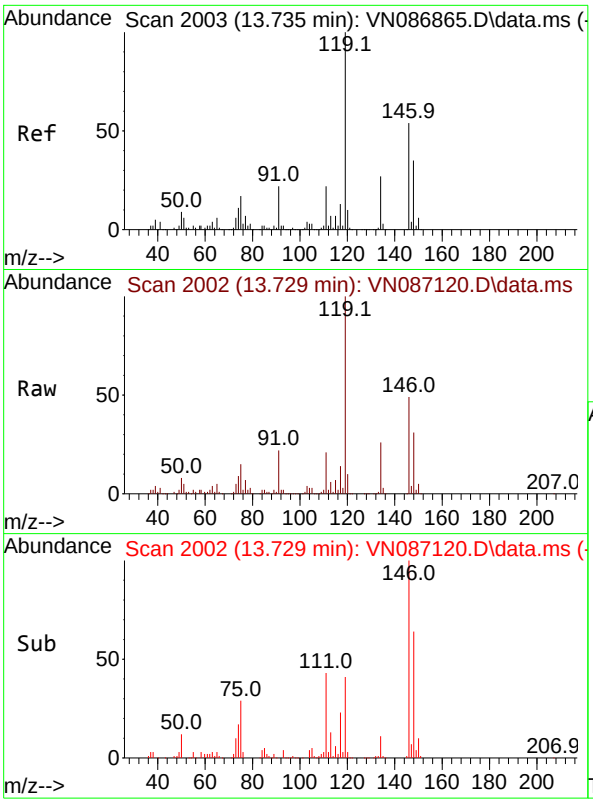


#86
p-Isopropyltoluene
Concen: 45.321 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:119 Resp: 408834

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.5	40.4
91	22.2	11.5	34.4

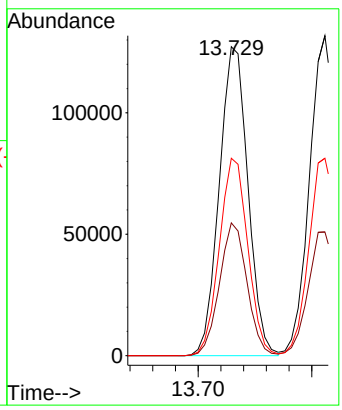




#87
1,3-Dichlorobenzene
Concen: 49.757 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:146 Resp: 22323

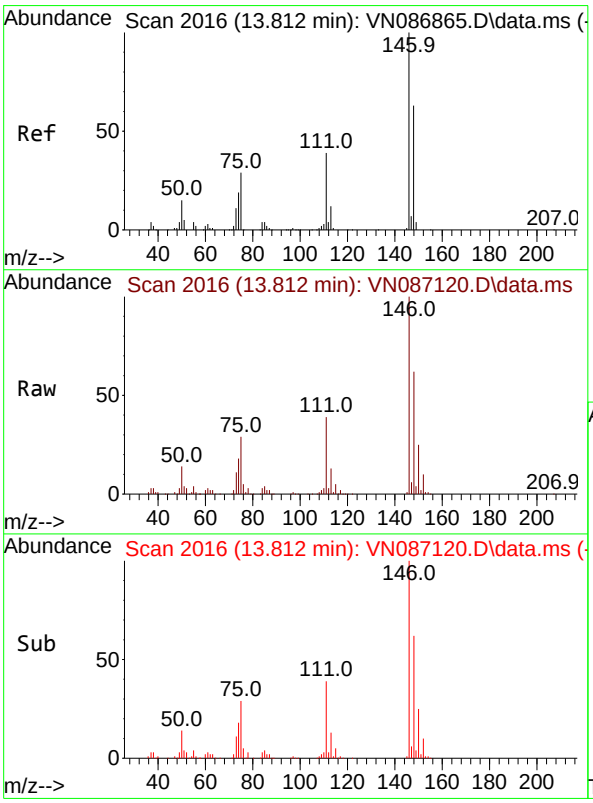
Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.9	62.8
148	63.5	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

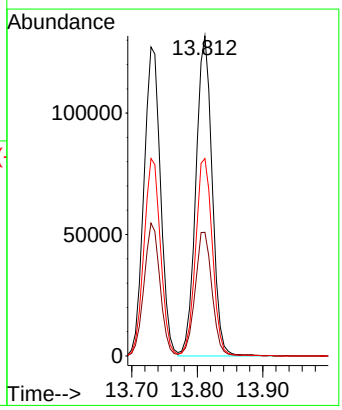
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

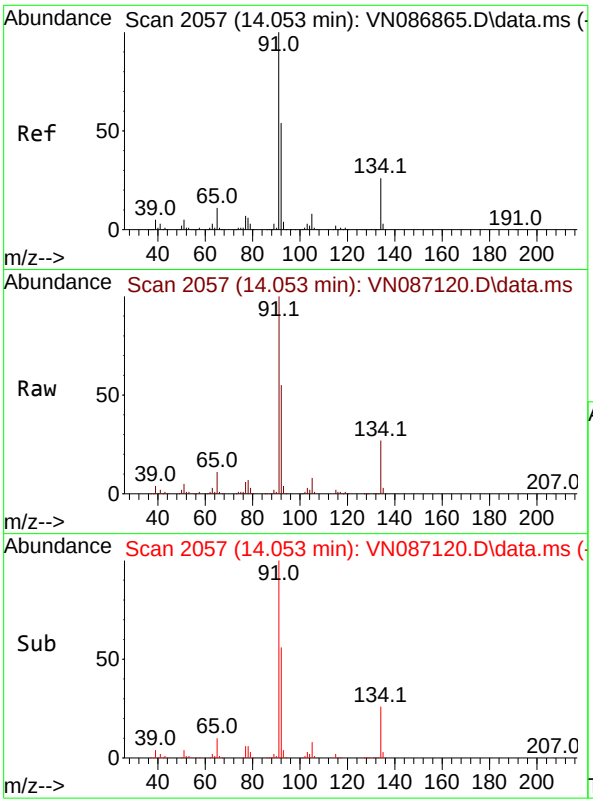


#88
1,4-Dichlorobenzene
Concen: 49.767 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:146 Resp: 227638

Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.9	59.7
148	63.7	31.8	95.4





#89
n-Butylbenzene
Concen: 41.002 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

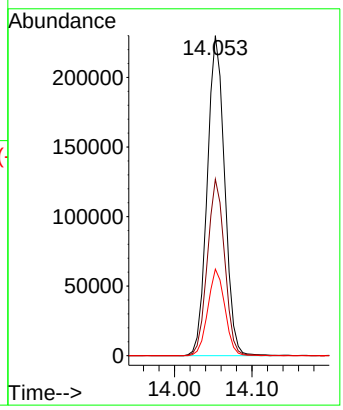
Tgt Ion: 91 Resp: 35826

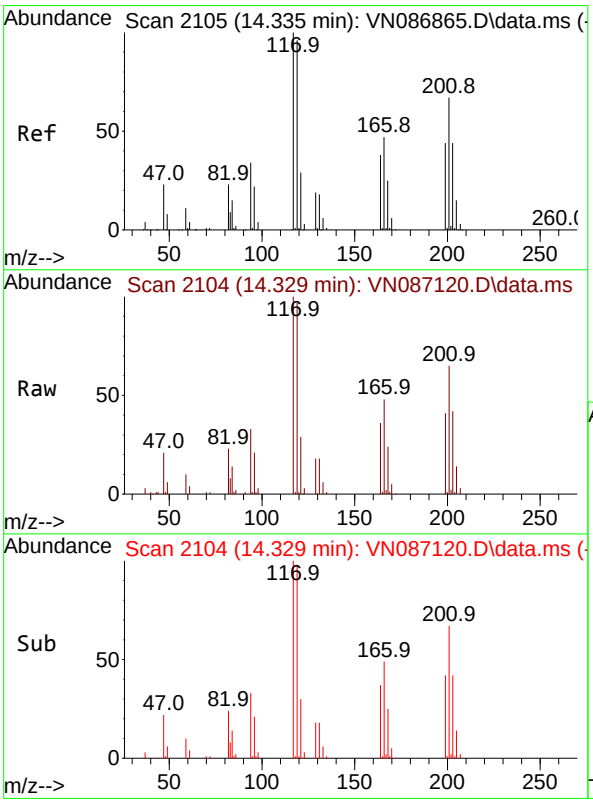
Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.5	82.4
134	26.5	13.0	39.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

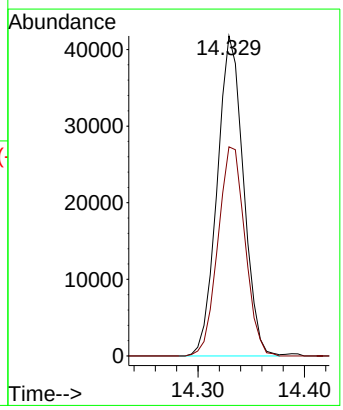


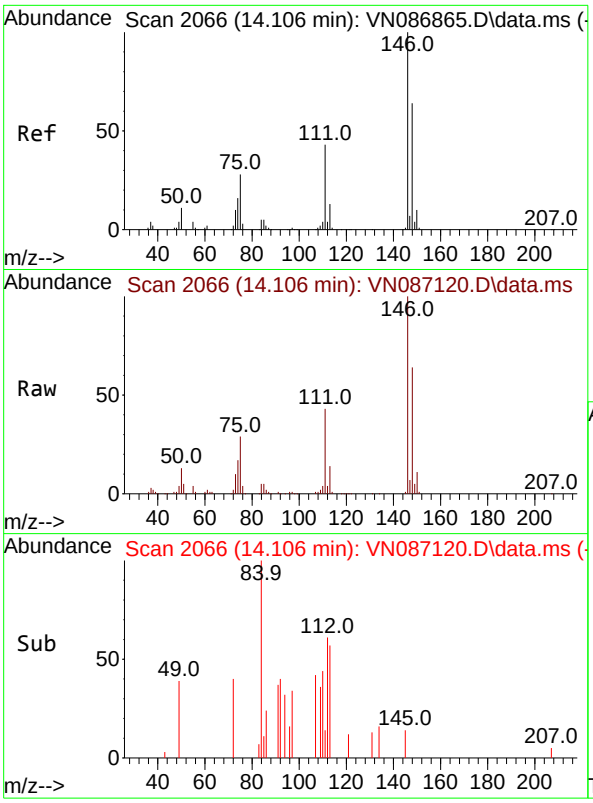


#90
Hexachloroethane
Concen: 46.744 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:117 Resp: 71475

Ion	Ratio	Lower	Upper
117	100		
201	67.4	33.2	99.6

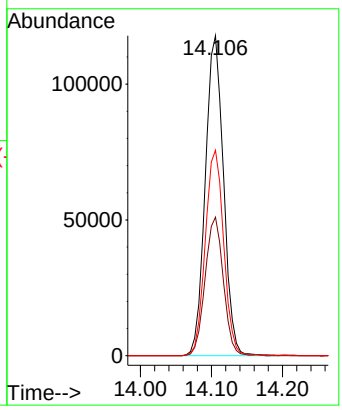




#91
1,2-Dichlorobenzene
Concen: 48.700 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:146 Resp: 20991

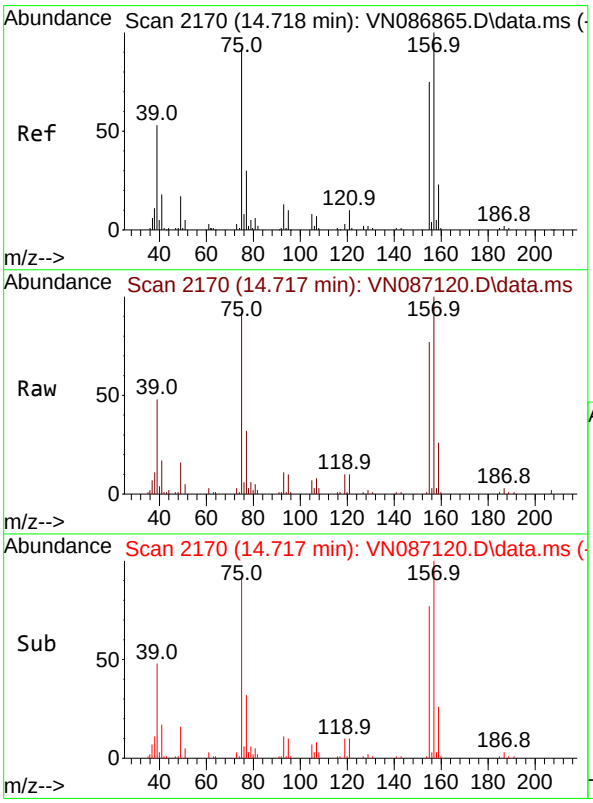
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.6	64.6
148	65.0	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

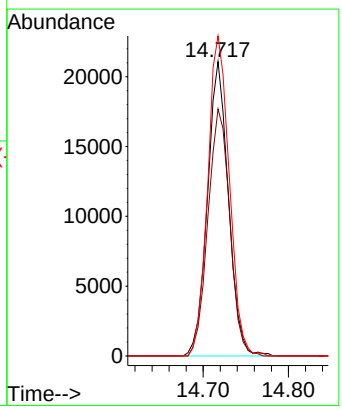
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

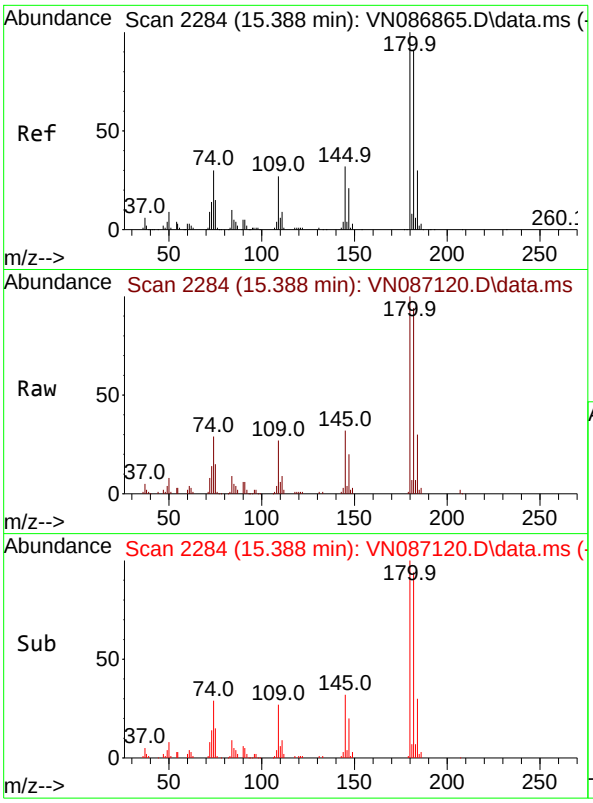


#92
1,2-Dibromo-3-Chloropropane
Concen: 44.717 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 75 Resp: 36024

Ion	Ratio	Lower	Upper
75	100		
155	87.3	41.1	123.4
157	112.1	52.7	158.1

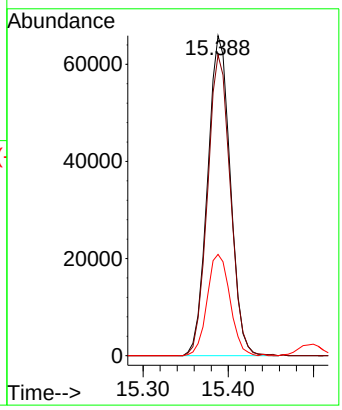




#93
1,2,4-Trichlorobenzene
Concen: 44.406 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:180 Resp: 12222

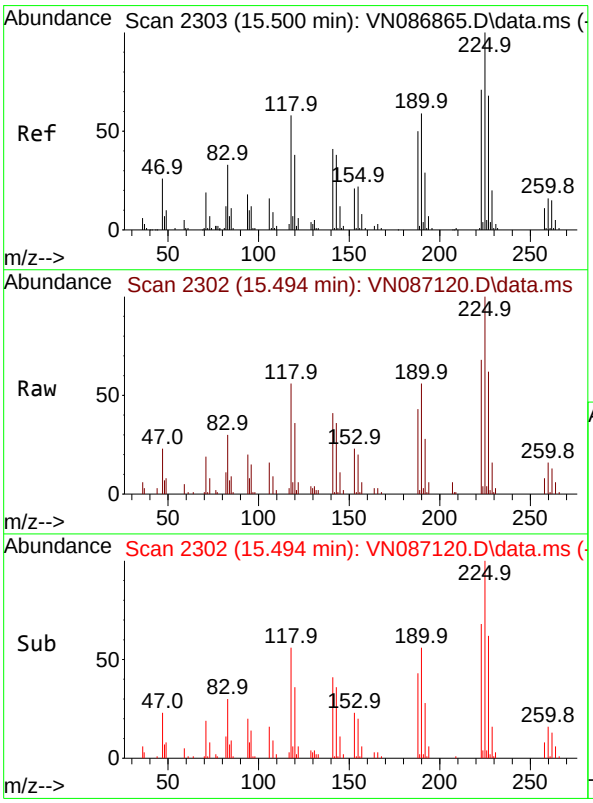
Ion	Ratio	Lower	Upper
180	100		
182	94.1	46.9	140.7
145	31.8	16.0	47.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

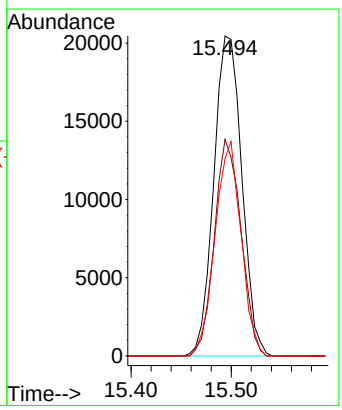
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

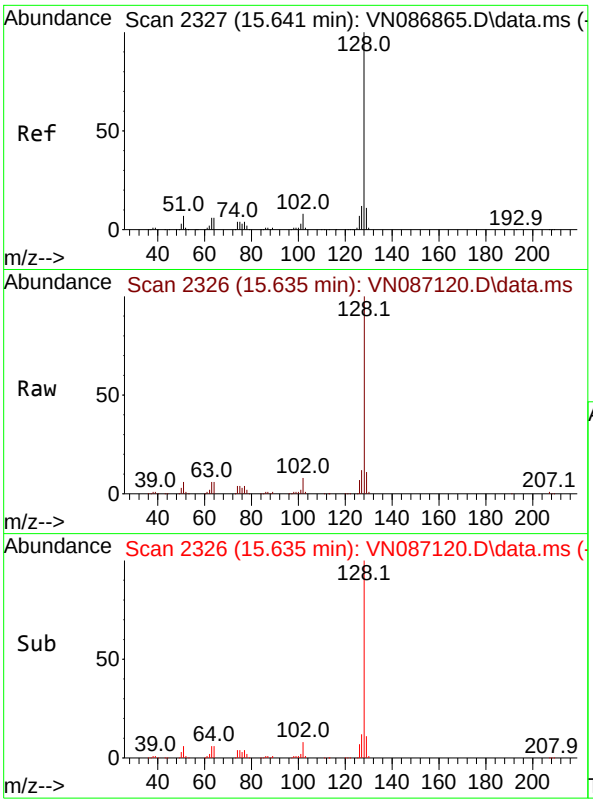


#94
Hexachlorobutadiene
Concen: 38.652 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:225 Resp: 39636

Ion	Ratio	Lower	Upper
225	100		
223	64.5	33.5	100.4
227	62.2	31.1	93.5

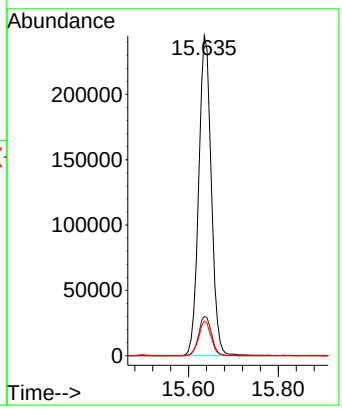




#95
Naphthalene
Concen: 46.438 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:128 Resp: 47576

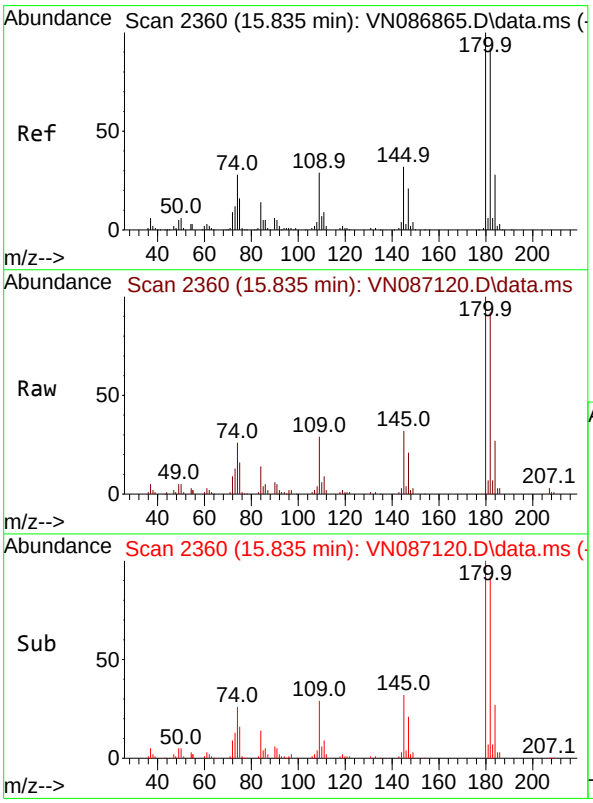
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.6	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

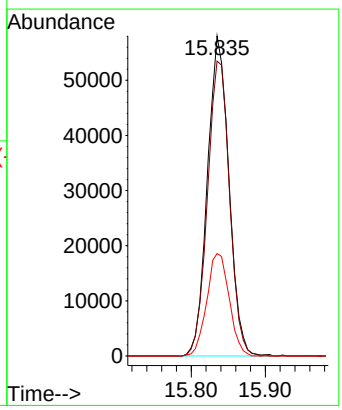
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 42.704 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:180 Resp: 116780

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.0	141.0
145	33.4	16.6	49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	83	0.00
2	T	Dichlorodifluoromethane	0.499	0.482	3.4	80	0.00
3	P	Chloromethane	0.644	0.526	18.3	73	0.00
4	C	Vinyl Chloride	0.664	0.677	-2.0#	88	0.00
5	T	Bromomethane	0.372	0.377	-1.3	88	0.00
6	T	Chloroethane	0.429	0.433	-0.9	88	0.00
7	T	Trichlorofluoromethane	0.868	0.882	-1.6	88	0.00
8	T	Diethyl Ether	0.378	0.379	-0.3	87	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.545	0.541	0.7	86	0.00
10	T	Methyl Iodide	0.707	0.483	31.7#	59	0.00
11	T	Tert butyl alcohol	0.182	0.160	12.1	75	-0.01
12	CM	1,1-Dichloroethene	0.557	0.568	-2.0#	88	0.01
13	T	Acrolein	0.057	0.050	12.3	91	0.00
14	T	Allyl chloride	0.923	0.806	12.7	77	0.00
15	T	Acrylonitrile	0.425	0.392	7.8	80	0.00
16	T	Acetone	0.355	0.293	17.5	75	0.00
17	T	Carbon Disulfide	1.539	1.584	-2.9	92	0.01
18	T	Methyl Acetate	1.035	0.877	15.3	74	0.00
19	T	Methyl tert-butyl Ether	2.015	1.943	3.6	83	0.00
20	T	Methylene Chloride	0.665	0.635	4.5	87	0.00
21	T	trans-1,2-Dichloroethene	0.619	0.603	2.6	88	0.00
22	T	Diisopropyl ether	1.945	1.758	9.6	78	0.00
23	T	Vinyl Acetate	1.644	1.522	7.4	79	0.00
24	P	1,1-Dichloroethane	1.120	1.084	3.2	85	0.00
25	T	2-Butanone	0.577	0.489	15.3	74	0.00
26	T	2,2-Dichloropropane	0.871	0.877	-0.7	80	0.00
27	T	cis-1,2-Dichloroethene	0.740	0.731	1.2	87	0.00
28	T	Bromochloromethane	0.550	0.469	14.7	83	0.00
29	T	Tetrahydrofuran	0.376	0.325	13.6	75	0.00
30	C	Chloroform	1.118	1.070	4.3#	84	0.00
31	T	Cyclohexane	1.086	0.968	10.9	80	0.00
32	T	1,1,1-Trichloroethane	0.951	0.916	3.7	85	0.00
33	S	1,2-Dichloroethane-d4	0.669	0.621	7.2	103	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
35	S	Dibromofluoromethane	0.296	0.309	-4.4	114	0.00
36	T	1,1-Dichloropropene	0.442	0.448	-1.4	87	0.00
37	T	Ethyl Acetate	0.562	0.515	8.4	78	0.00
38	T	Carbon Tetrachloride	0.433	0.436	-0.7	86	0.00
39	T	Methylcyclohexane	0.605	0.534	11.7	76	0.00
40	TM	Benzene	1.444	1.436	0.6	86	0.00
41	T	Methacrylonitrile	0.316	0.269	14.9	72	0.00
42	TM	1,2-Dichloroethane	0.438	0.422	3.7	83	0.00
43	T	Isopropyl Acetate	0.902	0.796	11.8	75	0.00
44	TM	Trichloroethene	0.342	0.352	-2.9	87	0.00
45	C	1,2-Dichloropropane	0.351	0.352	-0.3#	86	0.00
46	T	Dibromomethane	0.233	0.240	-3.0	88	0.00
47	T	Bromodichloromethane	0.480	0.476	0.8	84	0.00
48	T	Methyl methacrylate	0.415	0.365	12.0	75	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.008	0.008	0.0	80	0.00
50	S	Toluene-d8	1.173	1.157	1.4	109	0.00
51	T	4-Methyl-2-Pentanone	0.543	0.501	7.7	75	0.00
52	CM	Toluene	0.882	0.891	-1.0#	86	0.00
53	T	t-1,3-Dichloropropene	0.537	0.540	-0.6	84	0.00
54	T	cis-1,3-Dichloropropene	0.574	0.575	-0.2	84	0.00
55	T	1,1,2-Trichloroethane	0.340	0.334	1.8	84	0.00
56	T	Ethyl methacrylate	0.541	0.551	-1.8	80	0.00
57	T	1,3-Dichloropropane	0.589	0.583	1.0	84	0.00
58	T	2-Chloroethyl Vinyl ether	0.323	0.290	10.2	86	0.00
59	T	2-Hexanone	0.350	0.326	6.9	72	0.00
60	T	Dibromochloromethane	0.354	0.374	-5.6	89	0.00
61	T	1,2-Dibromoethane	0.348	0.352	-1.1	87	0.00
62	S	4-Bromofluorobenzene	0.436	0.441	-1.1	110	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	81	0.00
64	T	Tetrachloroethene	0.316	0.313	0.9	86	0.00
65	PM	Chlorobenzene	1.103	1.113	-0.9	88	0.00
66	T	1,1,1,2-Tetrachloroethane	0.354	0.368	-4.0	88	0.00
67	C	Ethyl Benzene	1.899	1.856	2.3#	83	0.00
68	T	m/p-Xylenes	0.727	0.750	-3.2	86	0.00
69	T	o-Xylene	0.696	0.725	-4.2	87	0.00
70	T	Styrene	1.192	1.220	-2.3	85	0.00
71	P	Bromoform	0.263	0.283	-7.6	86	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
73	T	Isopropylbenzene	3.643	3.488	4.3	83	0.00
74	T	N-amyl acetate	1.273	1.180	7.3	76	0.00
75	P	1,1,2,2-Tetrachloroethane	1.234	1.178	4.5	81	0.00
76	T	1,2,3-Trichloropropane	1.189	1.142	4.0	79	0.00
77	T	Bromobenzene	0.835	0.855	-2.4	88	0.00
78	T	n-propylbenzene	4.427	4.129	6.7	80	0.00
79	T	2-Chlorotoluene	2.655	2.468	7.0	80	0.00
80	T	1,3,5-Trimethylbenzene	3.007	2.875	4.4	81	0.00
81	T	trans-1,4-Dichloro-2-butene	0.516	0.499	3.3	85	0.00
82	T	4-Chlorotoluene	2.686	2.544	5.3	82	0.00
83	T	tert-Butylbenzene	2.753	2.477	10.0	77	0.00
84	T	1,2,4-Trimethylbenzene	3.016	2.922	3.1	82	0.00
85	T	sec-Butylbenzene	3.998	3.561	10.9	76	0.00
86	T	p-Isopropyltoluene	3.305	2.995	9.4	77	0.00
87	T	1,3-Dichlorobenzene	1.644	1.636	0.5	86	0.00
88	T	1,4-Dichlorobenzene	1.676	1.668	0.5	86	0.00
89	T	n-Butylbenzene	3.201	2.625	18.0	70	0.00
90	T	Hexachloroethane	0.560	0.524	6.4	80	0.00
91	T	1,2-Dichlorobenzene	1.579	1.538	2.6	84	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.295	0.264	10.5	79	0.00
93	T	1,2,4-Trichlorobenzene	1.008	0.895	11.2	75	0.00
94	T	Hexachlorobutadiene	0.376	0.290	22.9	65	0.00
95	T	Naphthalene	3.753	3.486	7.1	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	0.856	14.6	73	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	83	0.00
2	T	Dichlorodifluoromethane	50.000	48.368	3.3	80	0.00
3	P	Chloromethane	50.000	40.850	18.3	73	0.00
4	C	Vinyl Chloride	50.000	50.937	-1.9#	88	0.00
5	T	Bromomethane	50.000	50.735	-1.5	88	0.00
6	T	Chloroethane	50.000	50.428	-0.9	88	0.00
7	T	Trichlorofluoromethane	50.000	50.839	-1.7	88	0.00
8	T	Diethyl Ether	50.000	50.093	-0.2	87	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.660	0.7	86	0.00
10	T	Methyl Iodide	50.000	34.158	31.7#	59	0.00
11	T	Tert butyl alcohol	250.000	219.653	12.1	75	-0.01
12	CM	1,1-Dichloroethene	50.000	51.014	-2.0#	88	0.01
13	T	Acrolein	250.000	215.834	13.7	91	0.00
14	T	Allyl chloride	50.000	43.658	12.7	77	0.00
15	T	Acrylonitrile	250.000	230.809	7.7	80	0.00
16	T	Acetone	250.000	206.505	17.4	75	0.00
17	T	Carbon Disulfide	50.000	51.448	-2.9	92	0.01
18	T	Methyl Acetate	50.000	42.374	15.3	74	0.00
19	T	Methyl tert-butyl Ether	50.000	48.211	3.6	83	0.00
20	T	Methylene Chloride	50.000	47.740	4.5	87	0.00
21	T	trans-1,2-Dichloroethene	50.000	48.679	2.6	88	0.00
22	T	Diisopropyl ether	50.000	45.170	9.7	78	0.00
23	T	Vinyl Acetate	250.000	231.557	7.4	79	0.00
24	P	1,1-Dichloroethane	50.000	48.418	3.2	85	0.00
25	T	2-Butanone	250.000	212.049	15.2	74	0.00
26	T	2,2-Dichloropropane	50.000	50.377	-0.8	80	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.366	1.3	87	0.00
28	T	Bromochloromethane	50.000	42.609	14.8	83	0.00
29	T	Tetrahydrofuran	250.000	216.407	13.4	75	0.00
30	C	Chloroform	50.000	47.846	4.3#	84	0.00
31	T	Cyclohexane	50.000	44.593	10.8	80	0.00
32	T	1,1,1-Trichloroethane	50.000	48.143	3.7	85	0.00
33	S	1,2-Dichloroethane-d4	50.000	46.395	7.2	103	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	81	0.00
35	S	Dibromofluoromethane	50.000	52.186	-4.4	114	0.00
36	T	1,1-Dichloropropene	50.000	50.694	-1.4	87	0.00
37	T	Ethyl Acetate	50.000	45.793	8.4	78	0.00
38	T	Carbon Tetrachloride	50.000	50.312	-0.6	86	0.00
39	T	Methylcyclohexane	50.000	44.143	11.7	76	0.00
40	TM	Benzene	50.000	49.733	0.5	86	0.00
41	T	Methacrylonitrile	50.000	42.608	14.8	72	0.00
42	TM	1,2-Dichloroethane	50.000	48.141	3.7	83	0.00
43	T	Isopropyl Acetate	50.000	44.098	11.8	75	0.00
44	TM	Trichloroethene	50.000	51.338	-2.7	87	0.00
45	C	1,2-Dichloropropane	50.000	50.168	-0.3#	86	0.00
46	T	Dibromomethane	50.000	51.439	-2.9	88	0.00
47	T	Bromodichloromethane	50.000	49.542	0.9	84	0.00
48	T	Methyl methacrylate	50.000	43.897	12.2	75	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1025.069	-2.5	80	0.00
50	S	Toluene-d8	50.000	49.330	1.3	109	0.00
51	T	4-Methyl-2-Pentanone	250.000	230.578	7.8	75	0.00
52	CM	Toluene	50.000	50.490	-1.0#	86	0.00
53	T	t-1,3-Dichloropropene	50.000	50.304	-0.6	84	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.028	-0.1	84	0.00
55	T	1,1,2-Trichloroethane	50.000	49.240	1.5	84	0.00
56	T	Ethyl methacrylate	50.000	50.911	-1.8	80	0.00
57	T	1,3-Dichloropropane	50.000	49.502	1.0	84	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	225.119	10.0	86	0.00
59	T	2-Hexanone	250.000	232.920	6.8	72	0.00
60	T	Dibromochloromethane	50.000	52.840	-5.7	89	0.00
61	T	1,2-Dibromoethane	50.000	50.592	-1.2	87	0.00
62	S	4-Bromofluorobenzene	50.000	50.563	-1.1	110	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	81	0.00
64	T	Tetrachloroethene	50.000	49.473	1.1	86	0.00
65	PM	Chlorobenzene	50.000	50.461	-0.9	88	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.897	-3.8	88	0.00
67	C	Ethyl Benzene	50.000	48.860	2.3#	83	0.00
68	T	m/p-Xylenes	100.000	103.171	-3.2	86	0.00
69	T	o-Xylene	50.000	52.041	-4.1	87	0.00
70	T	Styrene	50.000	51.208	-2.4	85	0.00
71	P	Bromoform	50.000	53.806	-7.6	86	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	81	0.00
73	T	Isopropylbenzene	50.000	47.874	4.3	83	0.00
74	T	N-amyl acetate	50.000	46.341	7.3	76	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	47.714	4.6	81	0.00
76	T	1,2,3-Trichloropropane	50.000	48.046	3.9	79	0.00
77	T	Bromobenzene	50.000	51.165	-2.3	88	0.00
78	T	n-propylbenzene	50.000	46.638	6.7	80	0.00
79	T	2-Chlorotoluene	50.000	46.477	7.0	80	0.00
80	T	1,3,5-Trimethylbenzene	50.000	47.807	4.4	81	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	48.329	3.3	85	0.00
82	T	4-Chlorotoluene	50.000	47.356	5.3	82	0.00
83	T	tert-Butylbenzene	50.000	44.991	10.0	77	0.00
84	T	1,2,4-Trimethylbenzene	50.000	48.443	3.1	82	0.00
85	T	sec-Butylbenzene	50.000	44.538	10.9	76	0.00
86	T	p-Isopropyltoluene	50.000	45.321	9.4	77	0.00
87	T	1,3-Dichlorobenzene	50.000	49.757	0.5	86	0.00
88	T	1,4-Dichlorobenzene	50.000	49.767	0.5	86	0.00
89	T	n-Butylbenzene	50.000	41.002	18.0	70	0.00
90	T	Hexachloroethane	50.000	46.744	6.5	80	0.00
91	T	1,2-Dichlorobenzene	50.000	48.700	2.6	84	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	44.717	10.6	79	0.00
93	T	1,2,4-Trichlorobenzene	50.000	44.406	11.2	75	0.00
94	T	Hexachlorobutadiene	50.000	38.652	22.7	65	0.00
95	T	Naphthalene	50.000	46.438	7.1	79	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	42.704	14.6	73	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

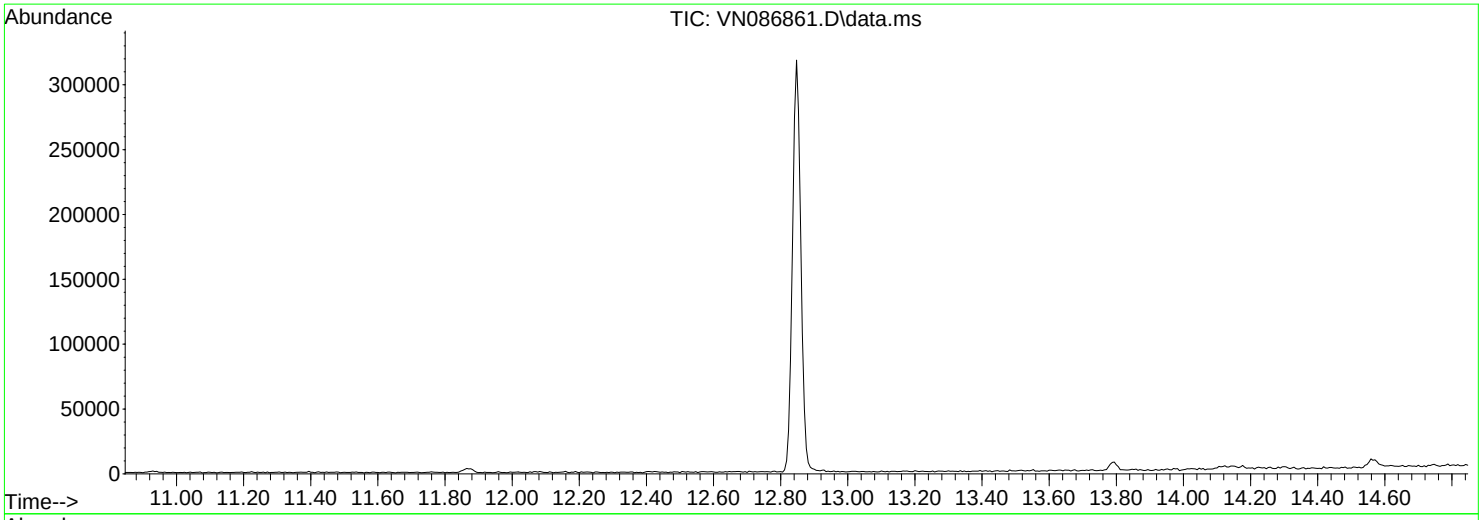
QC SAMPLE DATA

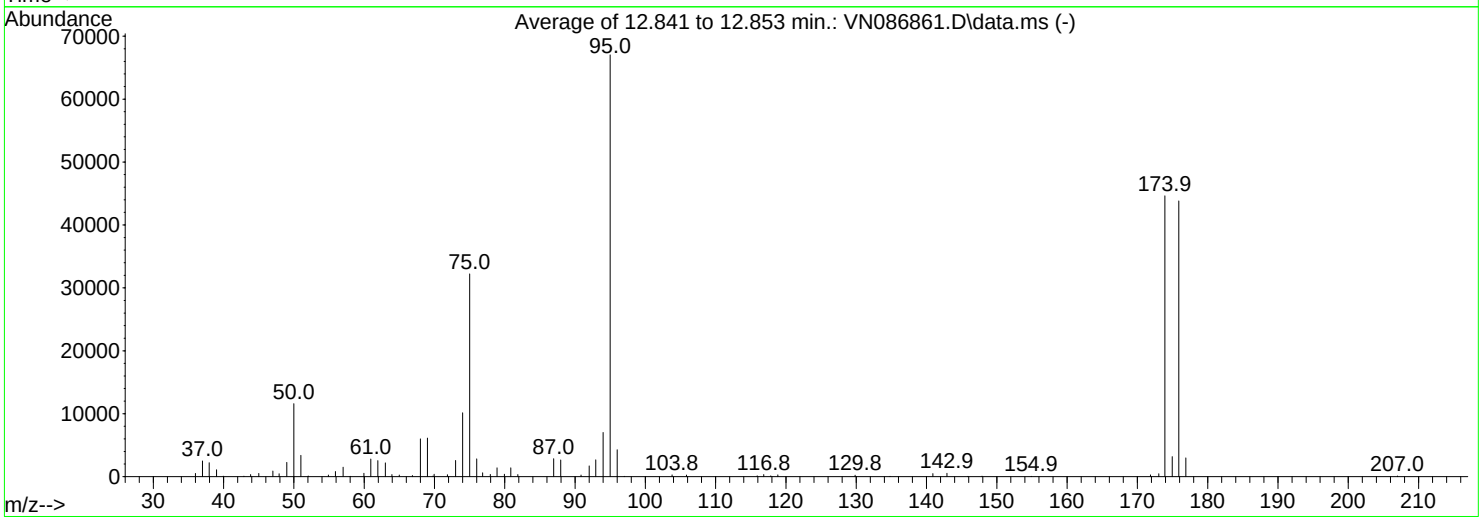
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086861.D
Acq On : 06 Jun 2025 07:59
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

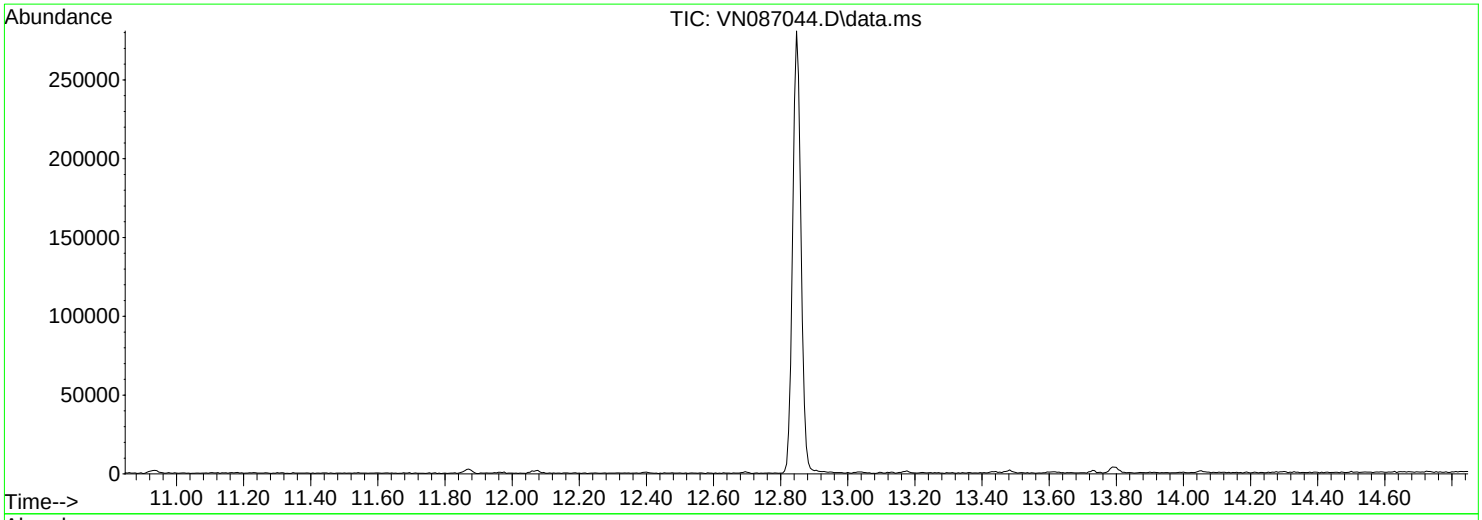
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	11610	PASS
75	95	30	60	48.1	32235	PASS
95	95	100	100	100.0	67037	PASS
96	95	5	9	6.4	4284	PASS
173	174	0.00	2	1.0	453	PASS
174	95	50	100	66.6	44632	PASS
175	174	5	9	7.1	3184	PASS
176	174	95	101	98.1	43805	PASS
177	176	5	9	6.8	2979	PASS

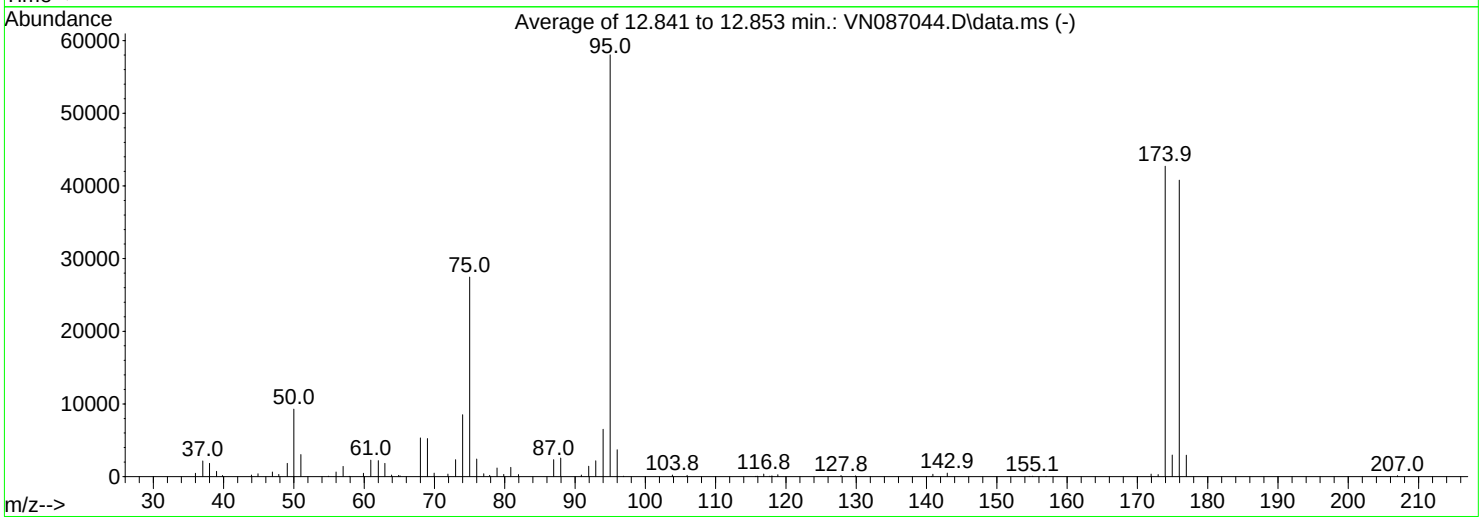
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087044.D
Acq On : 17 Jun 2025 08:51
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

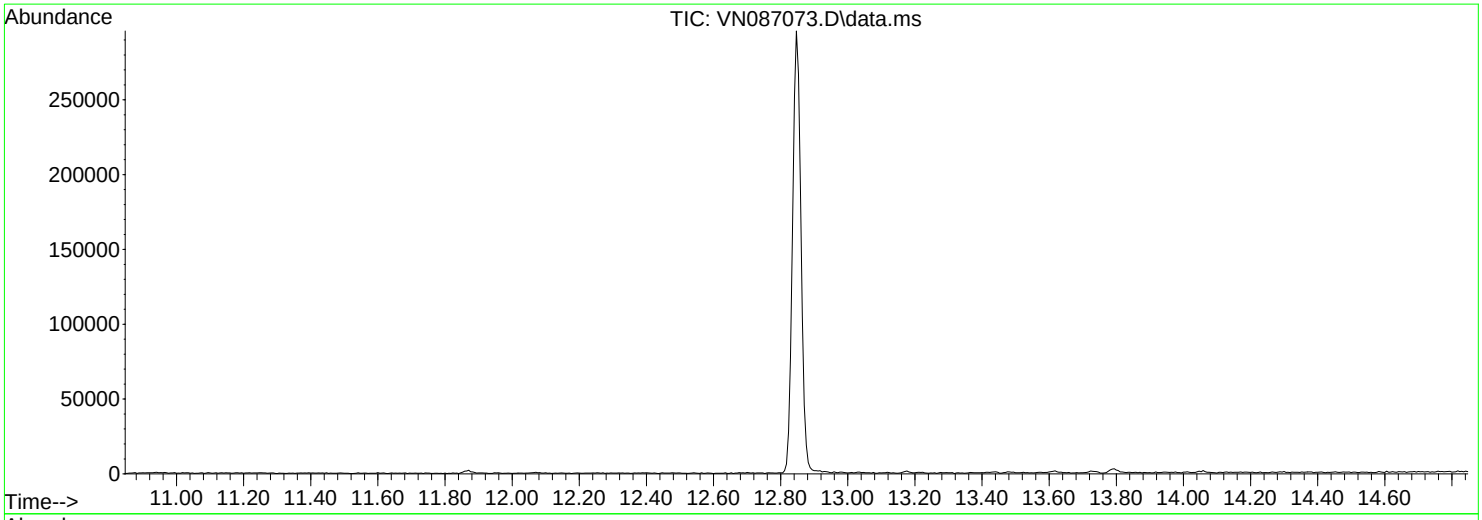
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	9291	PASS
75	95	30	60	47.3	27451	PASS
95	95	100	100	100.0	58037	PASS
96	95	5	9	6.4	3705	PASS
173	174	0.00	2	0.7	297	PASS
174	95	50	100	73.6	42712	PASS
175	174	5	9	7.0	2969	PASS
176	174	95	101	95.5	40787	PASS
177	176	5	9	7.2	2942	PASS

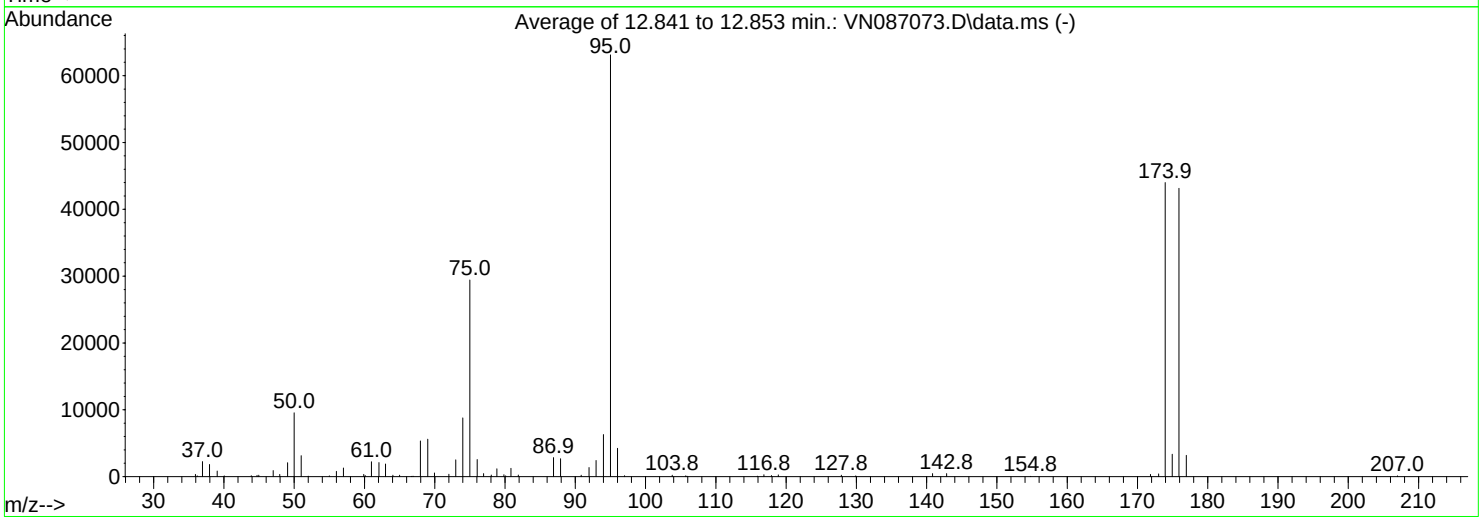
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087073.D
Acq On : 18 Jun 2025 08:43
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025





AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

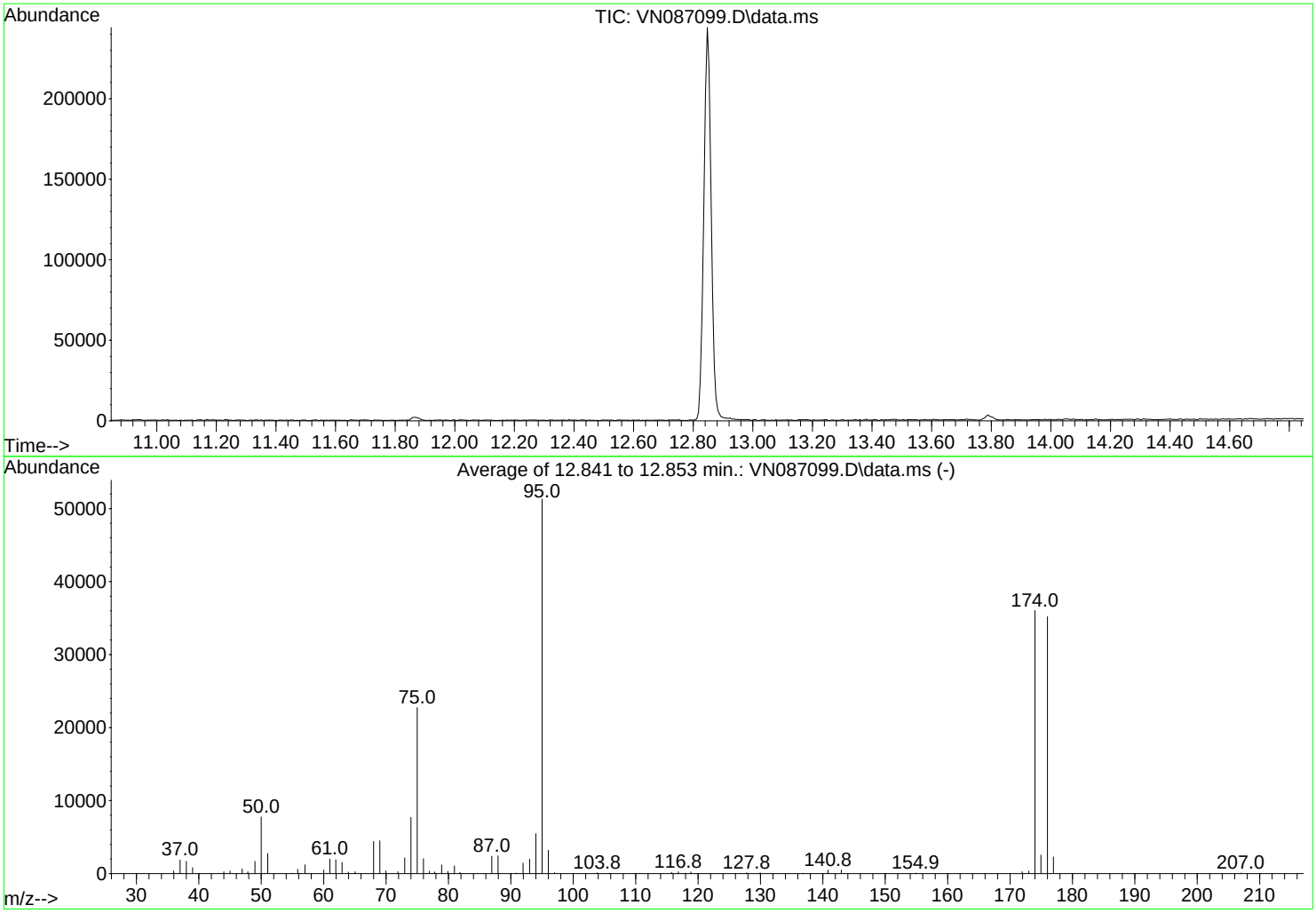
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	9552	PASS
75	95	30	60	46.6	29437	PASS
95	95	100	100	100.0	63117	PASS
96	95	5	9	6.7	4230	PASS
173	174	0.00	2	0.9	398	PASS
174	95	50	100	69.7	44019	PASS
175	174	5	9	7.6	3359	PASS
176	174	95	101	98.0	43136	PASS
177	176	5	9	7.4	3181	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087099.D
Acq On : 19 Jun 2025 08:58
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	7775	PASS
75	95	30	60	44.3	22760	PASS
95	95	100	100	100.0	51323	PASS
96	95	5	9	6.2	3191	PASS
173	174	0.00	2	1.0	343	PASS
174	95	50	100	70.2	36029	PASS
175	174	5	9	7.1	2561	PASS
176	174	95	101	97.7	35200	PASS
177	176	5	9	6.5	2289	PASS

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0617WBL01	SDG No.:	Q2329
Lab Sample ID:	VN0617WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087047.D	1		06/17/25 10:20	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0617WBL01	SDG No.:	Q2329
Lab Sample ID:	VN0617WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087047.D	1		06/17/25 10:20	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.2		81 - 118		110%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	53.3		89 - 112		107%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	201000	8.229				
540-36-3	1,4-Difluorobenzene	404000	9.106				
3114-55-4	Chlorobenzene-d5	369000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	171000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0617WBL01	SDG No.:	Q2329
Lab Sample ID:	VN0617WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087047.D	1		06/17/25 10:20	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061725\
Data File : VN087047.D
Acq On : 17 Jun 2025 10:20
Operator : JC\MD
Sample : VN0617WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBL01

Quant Time: Jun 18 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

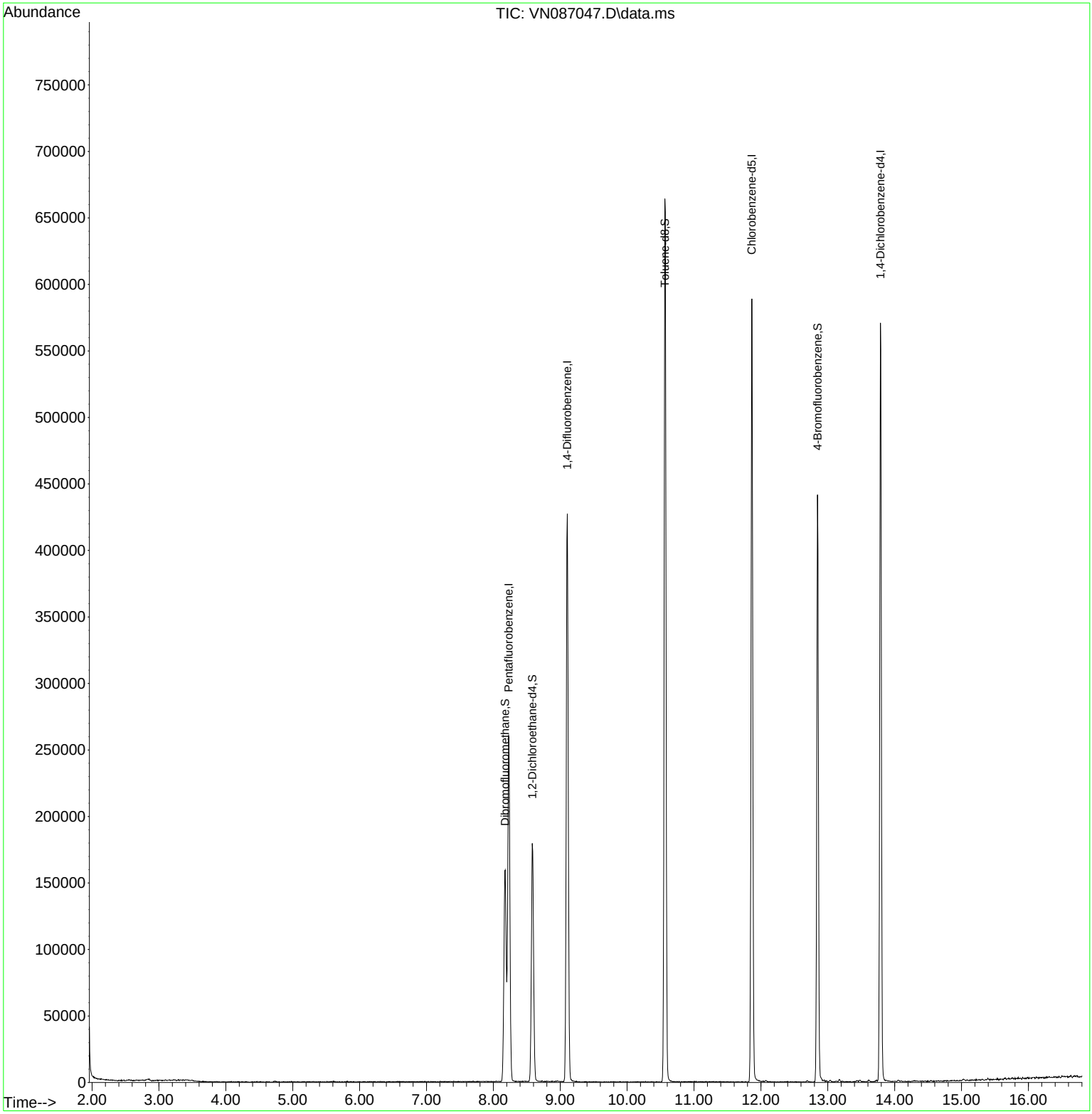
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	200915	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	403651	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	368689	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	170553	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	148580	55.234	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 110.460%			
35) Dibromofluoromethane	8.177	113	126383	52.833	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.660%			
50) Toluene-d8	10.565	98	504769	53.303	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.600%			
62) 4-Bromofluorobenzene	12.847	95	176121	50.058	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.120%			
Target Compounds						Qvalue

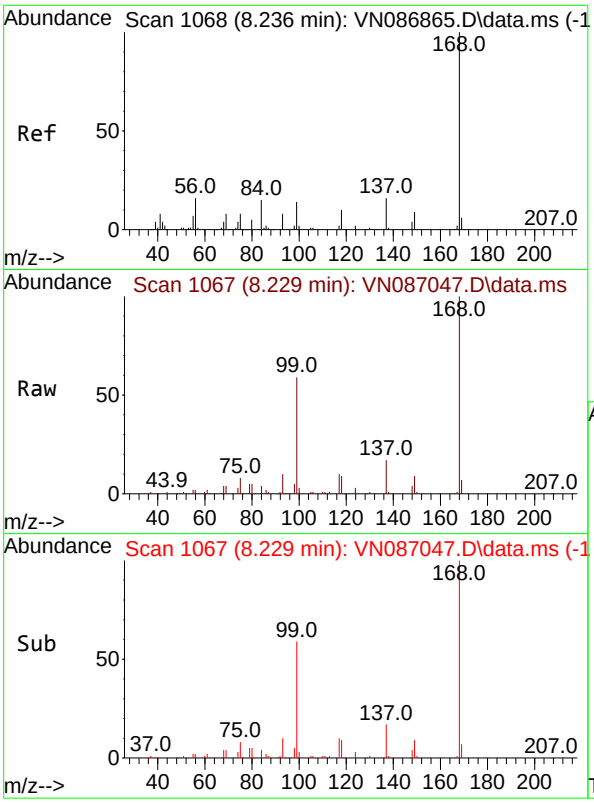
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087047.D
Acq On : 17 Jun 2025 10:20
Operator : JC\MD
Sample : VN0617WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBL01

Quant Time: Jun 18 01:43:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



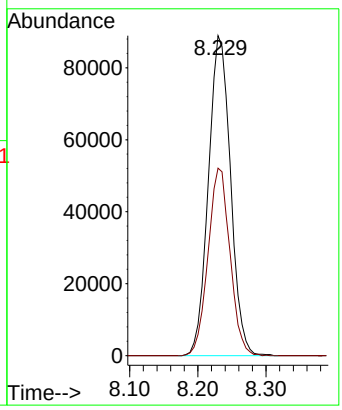


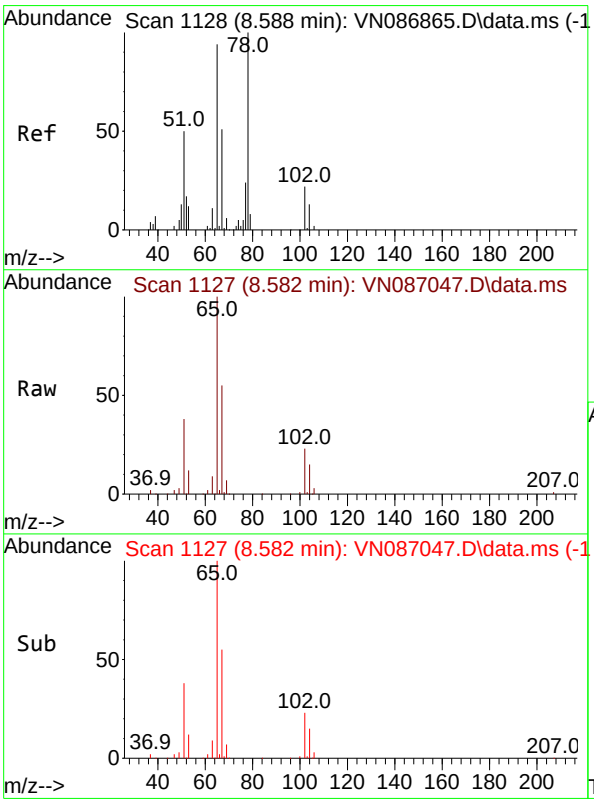
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN087047.D
Acq: 17 Jun 2025 10:20

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBL01

Tgt Ion:168 Resp: 200915

Ion	Ratio	Lower	Upper
168	100		
99	58.6	49.1	73.7

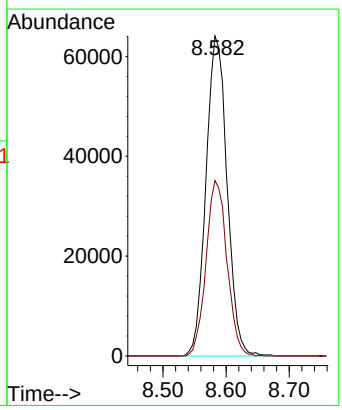


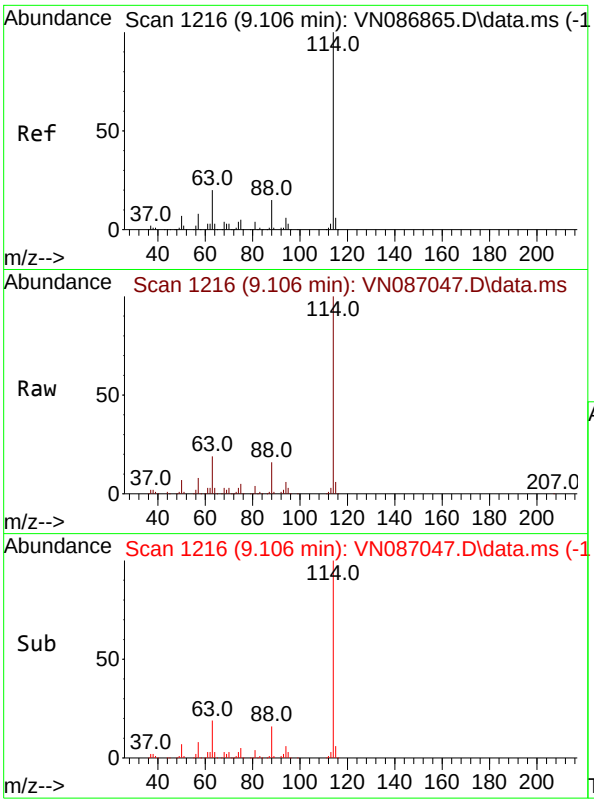


#33
1,2-Dichloroethane-d4
Concen: 55.234 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087047.D
Acq: 17 Jun 2025 10:20

Tgt Ion: 65 Resp: 148580

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.6



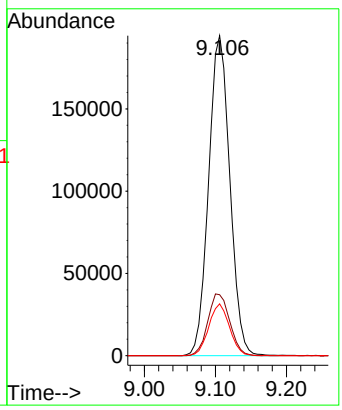


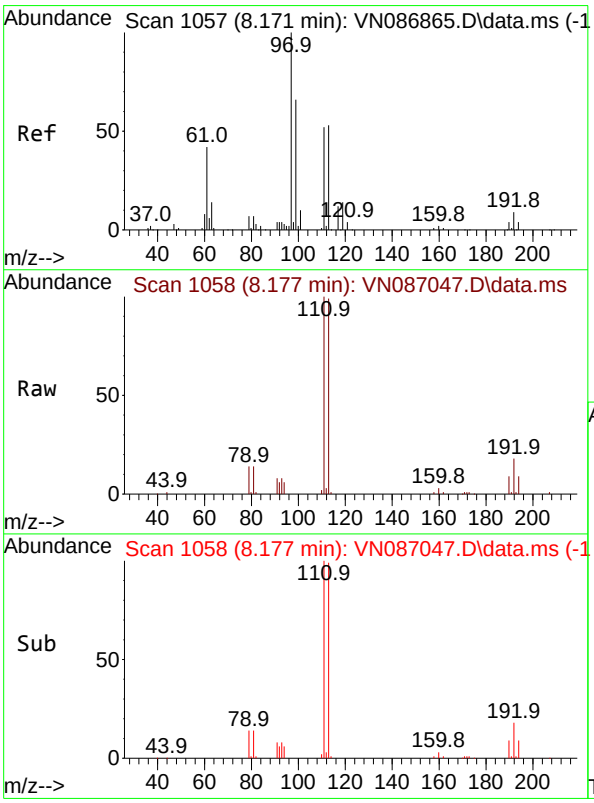
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087047.D
Acq: 17 Jun 2025 10:20

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBL01

Tgt Ion:114 Resp: 403651

Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	39.6
88	16.2	0.0	30.2

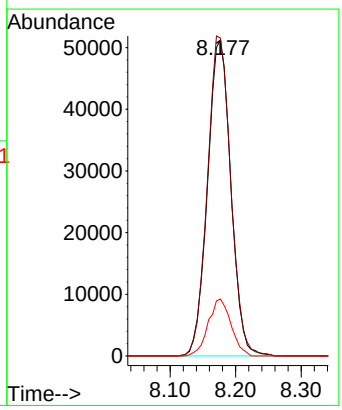


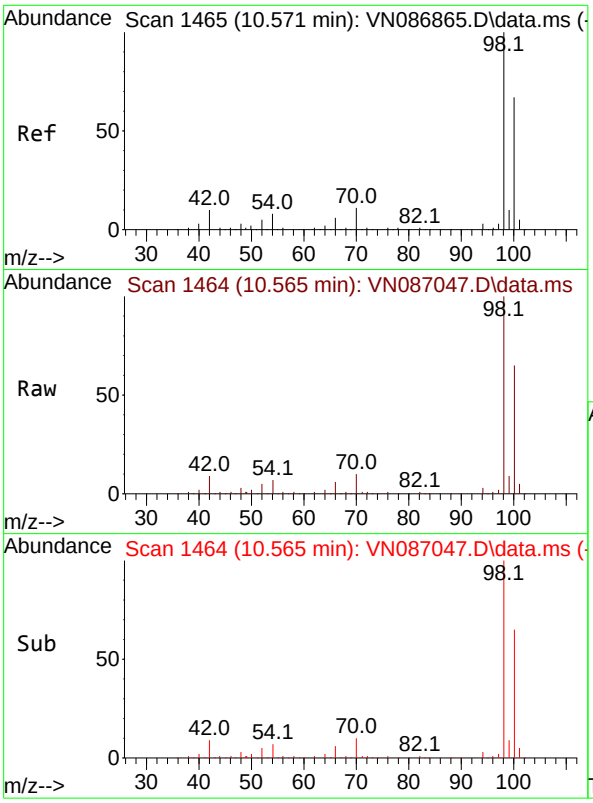


#35
Dibromofluoromethane
Concen: 52.833 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087047.D
Acq: 17 Jun 2025 10:20

Tgt Ion:113 Resp: 126383

Ion	Ratio	Lower	Upper
113	100		
111	101.3	84.2	126.2
192	17.6	14.2	21.4



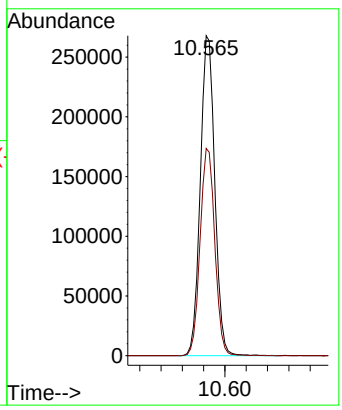


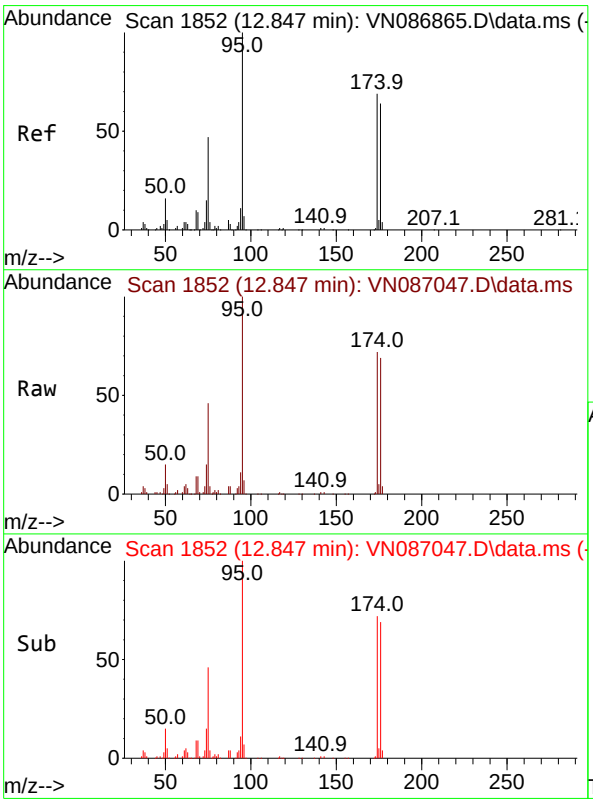
#50
Toluene-d8
Concen: 53.303 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN087047.D
Acq: 17 Jun 2025 10:20

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBL01

Tgt Ion: 98 Resp: 504769

Ion	Ratio	Lower	Upper
98	100		
100	65.8	53.4	80.0

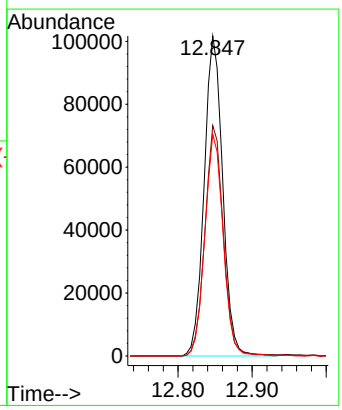


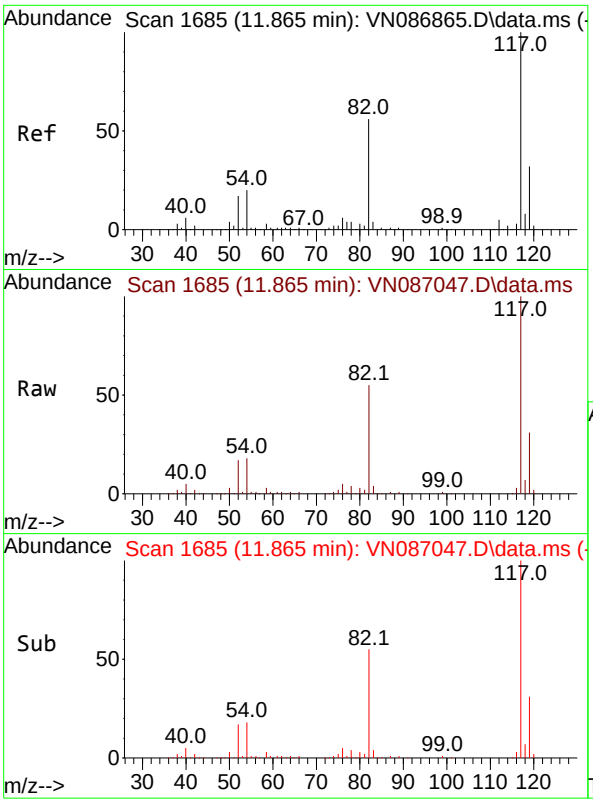


#62
4-Bromofluorobenzene
Concen: 50.058 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087047.D
Acq: 17 Jun 2025 10:20

Tgt Ion: 95 Resp: 176121

Ion	Ratio	Lower	Upper
95	100		
174	71.5	0.0	141.8
176	68.7	0.0	132.6



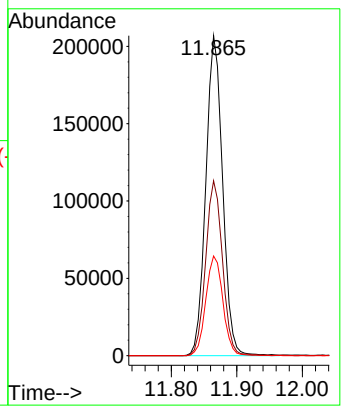


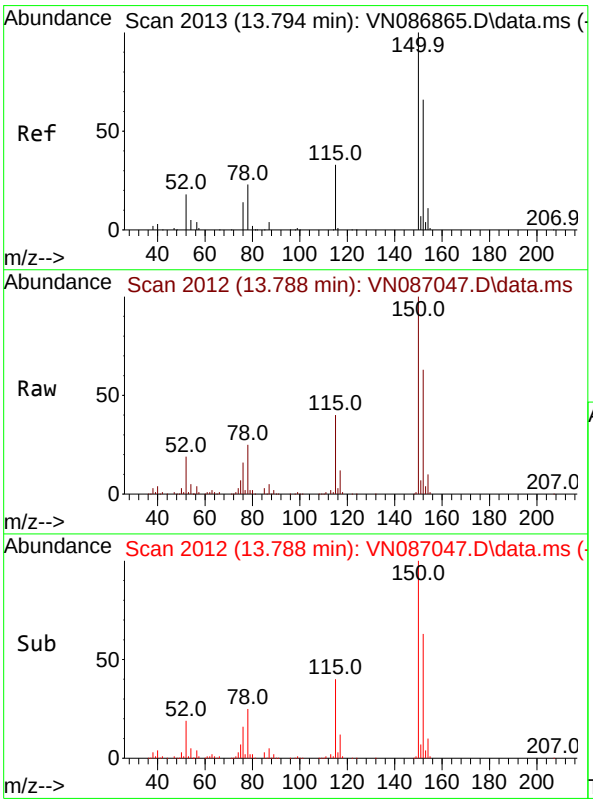
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087047.D
Acq: 17 Jun 2025 10:20

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBL01

Tgt Ion:117 Resp: 368689

Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.6	67.0
119	31.2	25.5	38.3

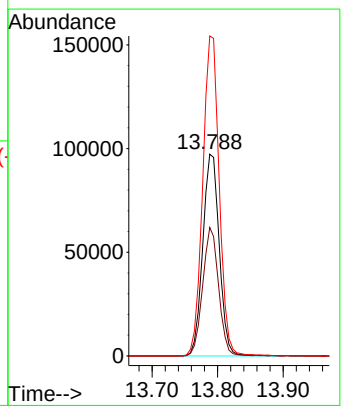




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087047.D
Acq: 17 Jun 2025 10:20

Tgt Ion:152 Resp: 170553

Ion	Ratio	Lower	Upper
152	100		
115	61.4	30.1	90.5
150	158.6	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0618WBL01	SDG No.:	Q2329
Lab Sample ID:	VN0618WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087076.D	1		06/18/25 11:46	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0618WBL01	SDG No.:	Q2329
Lab Sample ID:	VN0618WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087076.D	1		06/18/25 11:46	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.5		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	52.4		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	270000	8.229				
540-36-3	1,4-Difluorobenzene	541000	9.106				
3114-55-4	Chlorobenzene-d5	486000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	228000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0618WBL01	SDG No.:	Q2329
Lab Sample ID:	VN0618WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087076.D	1		06/18/25 11:46	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061825\
Data File : VN087076.D
Acq On : 18 Jun 2025 11:46
Operator : JC\MD
Sample : VN0618WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBL01

Quant Time: Jun 19 01:24:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	270298	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	541331	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	486295	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	227513	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	190055	52.516	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.040%			
35) Dibromofluoromethane	8.177	113	162627	50.693	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.380%			
50) Toluene-d8	10.570	98	664885	52.354	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.700%			
62) 4-Bromofluorobenzene	12.847	95	232316	49.237	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.480%			

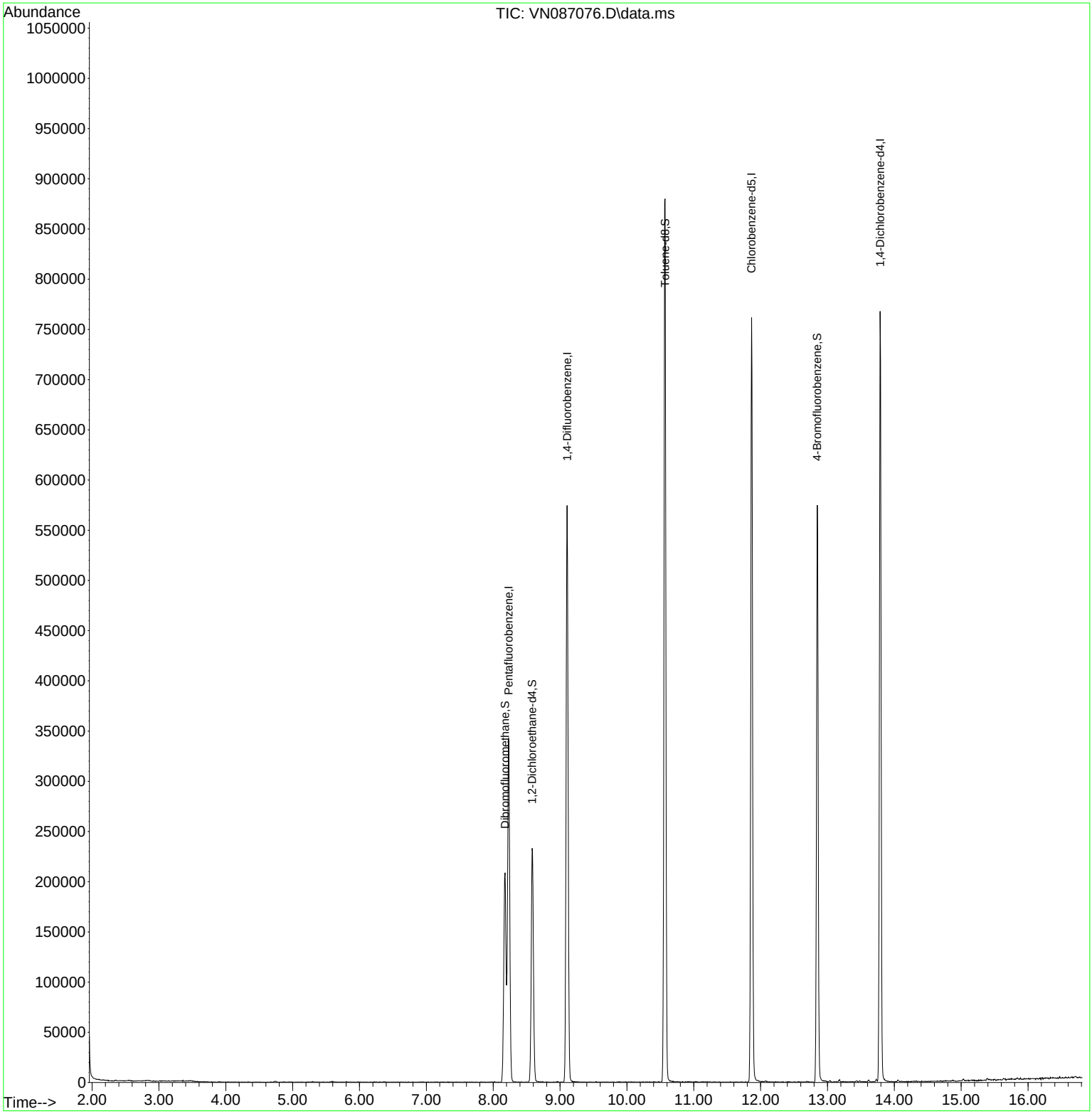
Target Compounds Qvalue

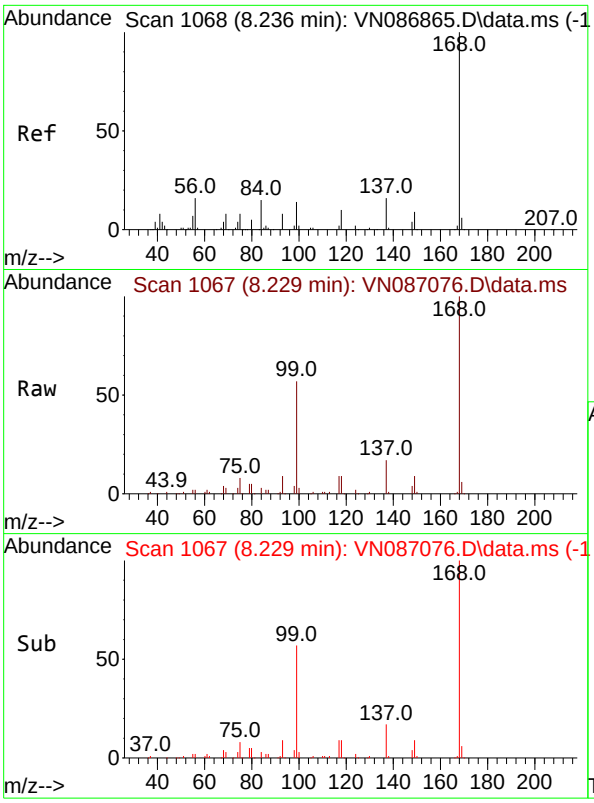
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087076.D
Acq On : 18 Jun 2025 11:46
Operator : JC\MD
Sample : VN0618WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBL01

Quant Time: Jun 19 01:24:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



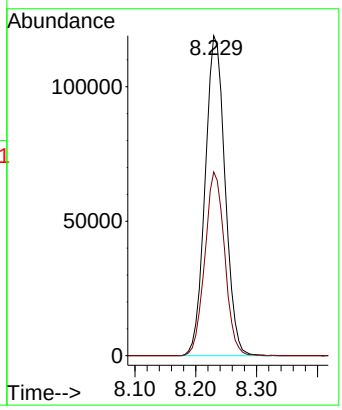


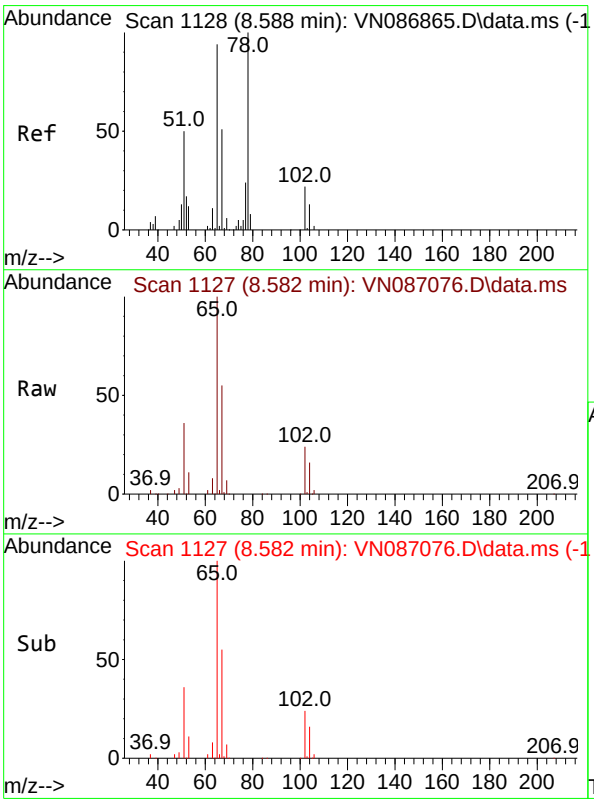
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN087076.D
Acq: 18 Jun 2025 11:46

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBL01

Tgt Ion:168 Resp: 270298

Ion	Ratio	Lower	Upper
168	100		
99	57.4	49.1	73.7

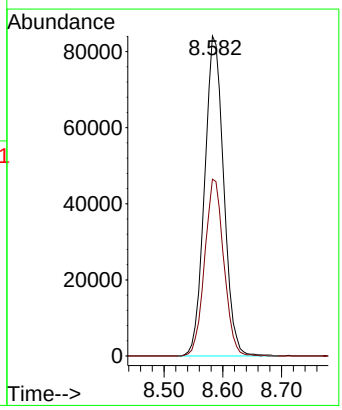


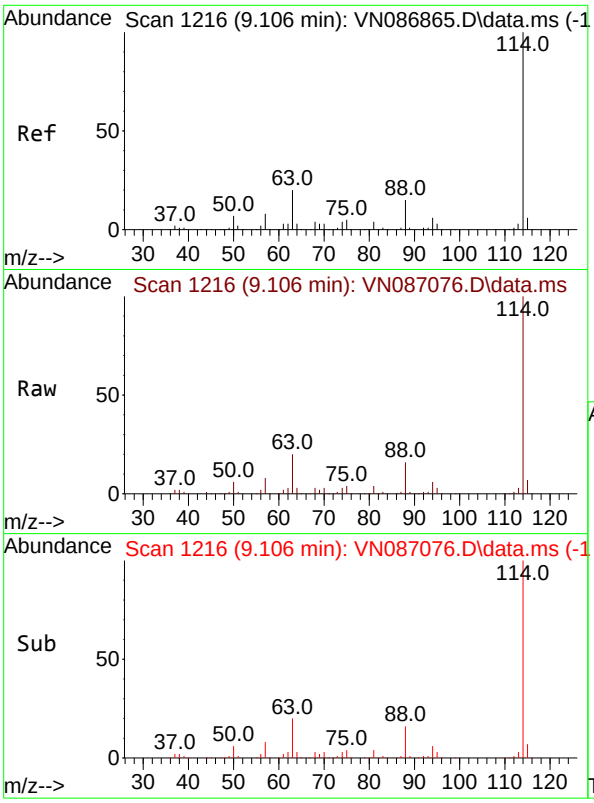


#33
1,2-Dichloroethane-d4
Concen: 52.516 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087076.D
Acq: 18 Jun 2025 11:46

Tgt Ion: 65 Resp: 190055

Ion	Ratio	Lower	Upper
65	100		
67	55.3	0.0	105.6



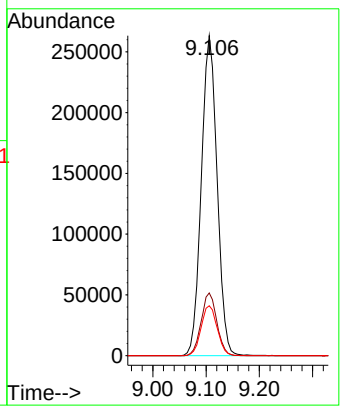


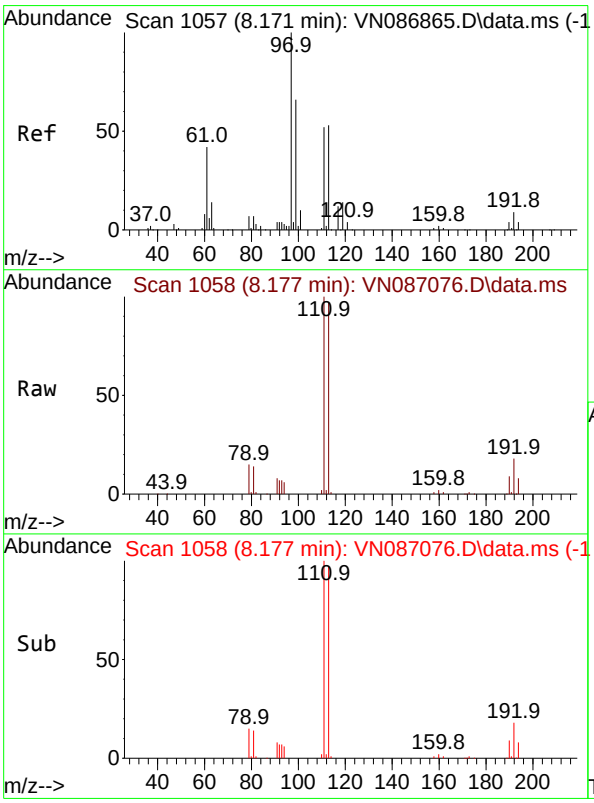
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087076.D
Acq: 18 Jun 2025 11:46

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBL01

Tgt Ion:114 Resp: 541331

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.6
88	15.6	0.0	30.2

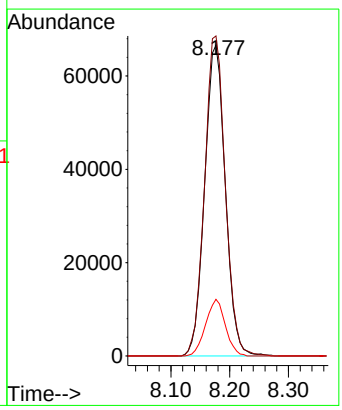


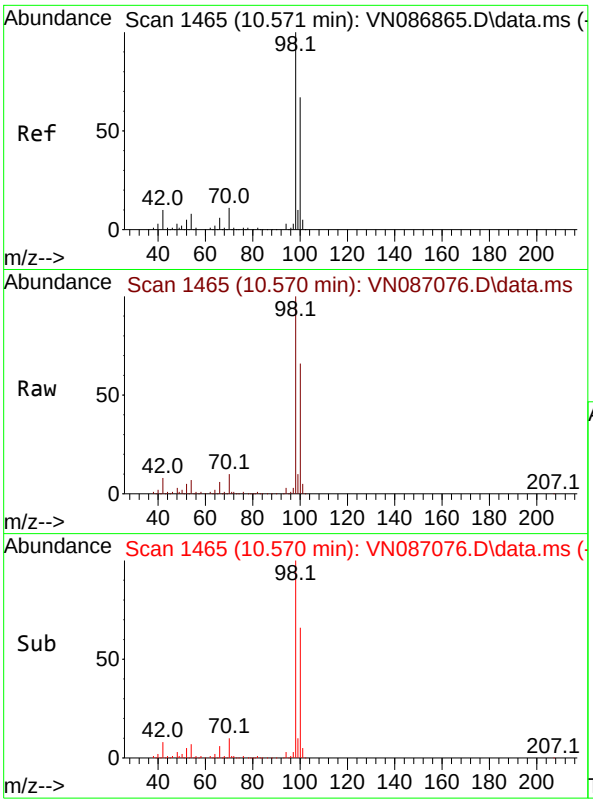


#35
Dibromofluoromethane
Concen: 50.693 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087076.D
Acq: 18 Jun 2025 11:46

Tgt Ion:113 Resp: 162627

Ion	Ratio	Lower	Upper
113	100		
111	103.1	84.2	126.2
192	17.4	14.2	21.4



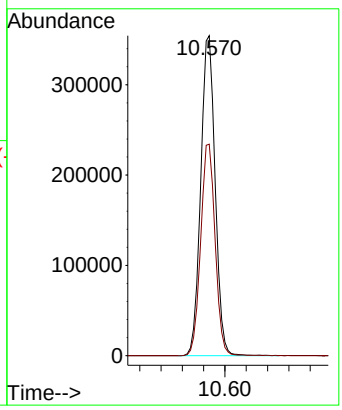


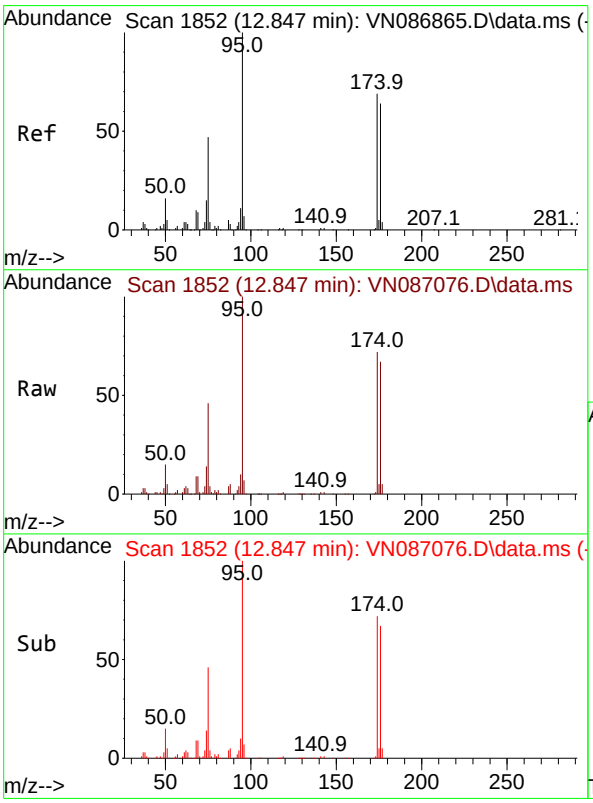
#50
Toluene-d8
Concen: 52.354 ug/l
RT: 10.570 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087076.D
Acq: 18 Jun 2025 11:46

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBL01

Tgt Ion: 98 Resp: 664885

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.4	80.0

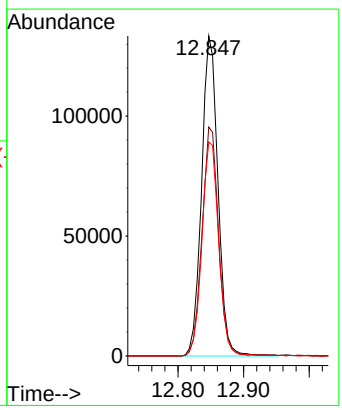


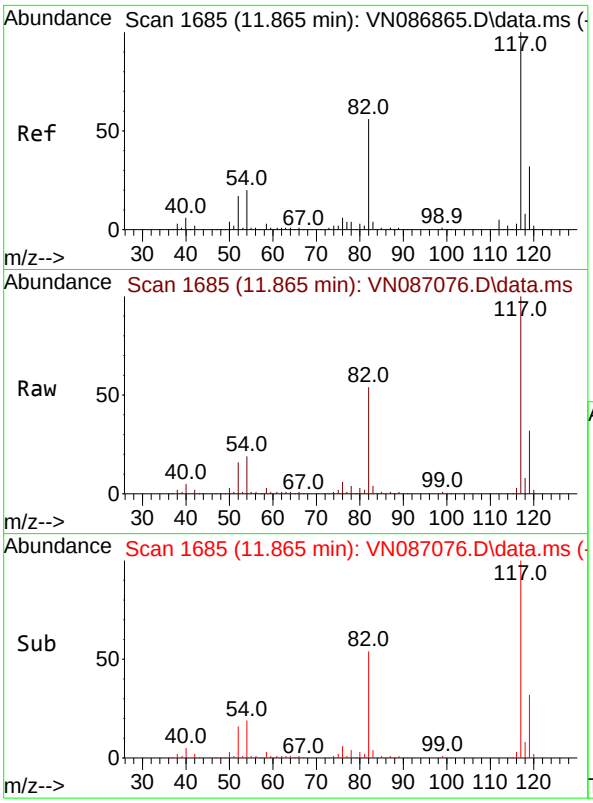


#62
4-Bromofluorobenzene
Concen: 49.237 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087076.D
Acq: 18 Jun 2025 11:46

Tgt Ion: 95 Resp: 232316

Ion	Ratio	Lower	Upper
95	100		
174	72.0	0.0	141.8
176	68.5	0.0	132.6



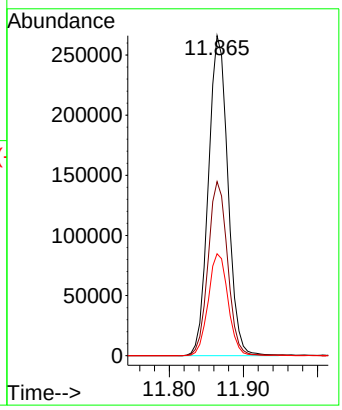


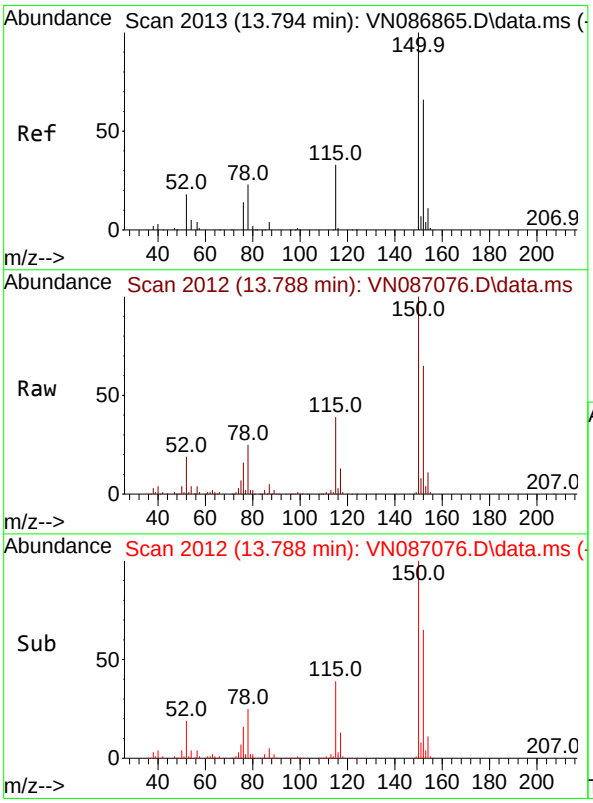
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087076.D
Acq: 18 Jun 2025 11:46

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBL01

Tgt Ion:117 Resp: 486295

Ion	Ratio	Lower	Upper
117	100		
82	54.4	44.6	67.0
119	31.9	25.5	38.3

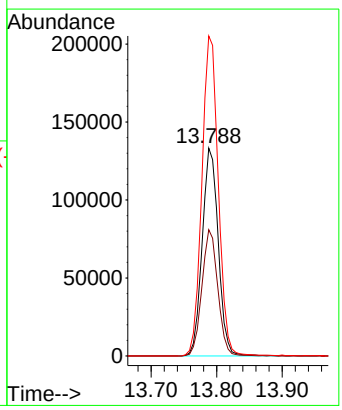




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087076.D
Acq: 18 Jun 2025 11:46

Tgt Ion:152 Resp: 227513

Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.1	90.5
150	157.2	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0619WBL01	SDG No.:	Q2329
Lab Sample ID:	VN0619WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087102.D	1		06/19/25 10:26	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	U	0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	0.75	U	0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	2.50	U	1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	0.50	U	0.22	0.50	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0619WBL01	SDG No.:	Q2329
Lab Sample ID:	VN0619WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087102.D	1		06/19/25 10:26	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.50	U	0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.75	U	0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.75	U	0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	57.1		81 - 118		114%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	53.8		89 - 112		108%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	181000	8.23				
540-36-3	1,4-Difluorobenzene	369000	9.106				
3114-55-4	Chlorobenzene-d5	337000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	157000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0619WBL01	SDG No.:	Q2329
Lab Sample ID:	VN0619WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087102.D	1		06/19/25 10:26	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061925\
Data File : VN087102.D
Acq On : 19 Jun 2025 10:26
Operator : JC\MD
Sample : VN0619WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBL01

Quant Time: Jun 20 01:20:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

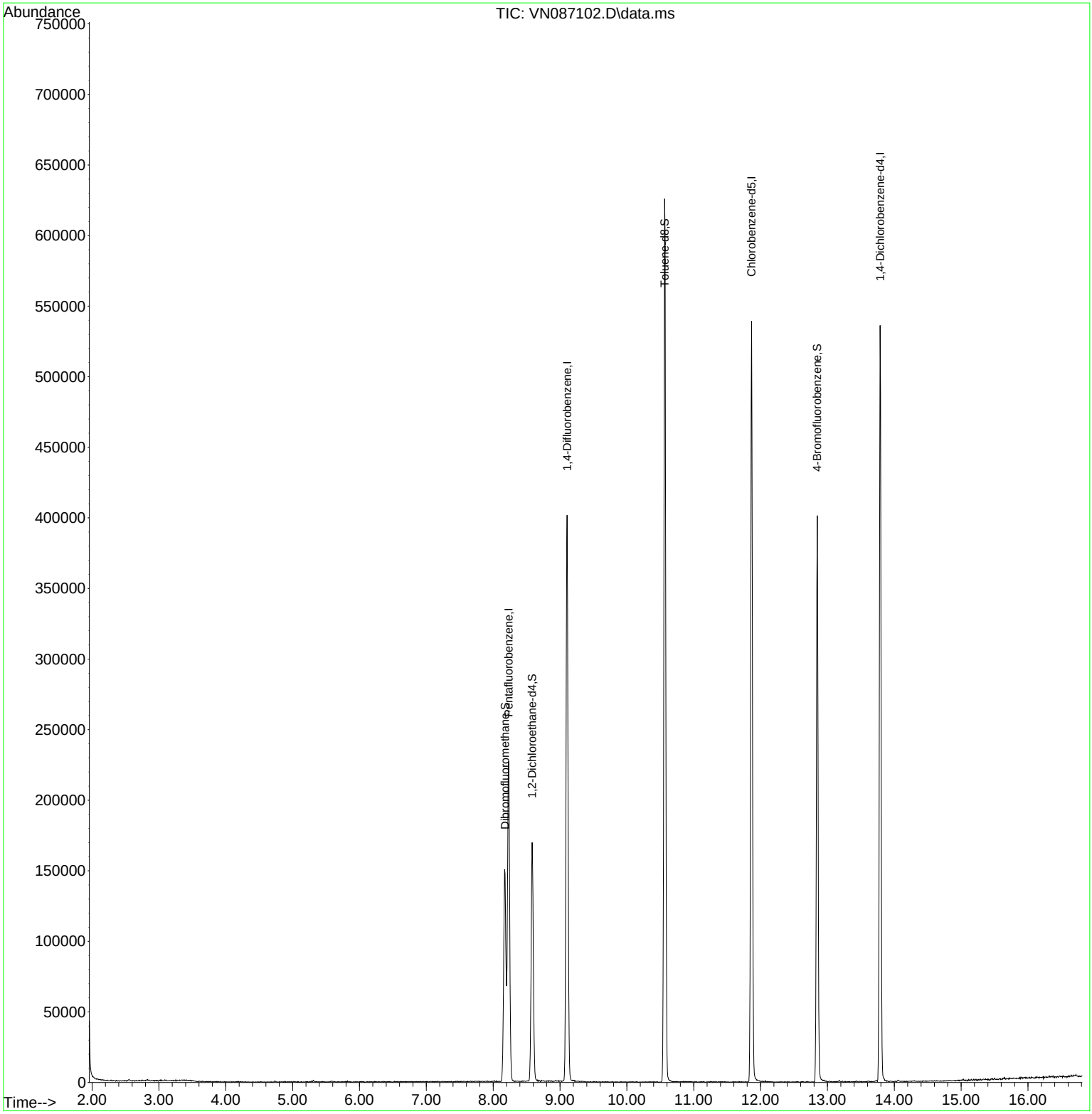
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	180966	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	368878	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	337249	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	156562	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	138328	57.091	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.180%			
35) Dibromofluoromethane	8.177	113	116016	53.071	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.140%			
50) Toluene-d8	10.565	98	465529	53.793	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 107.580%			
62) 4-Bromofluorobenzene	12.847	95	157268	48.914	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.820%			
Target Compounds						Qvalue

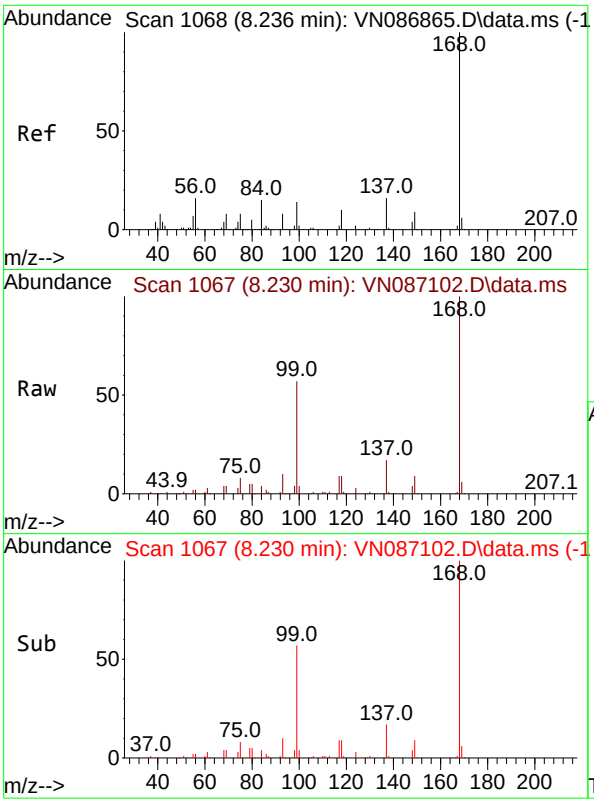
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087102.D
Acq On : 19 Jun 2025 10:26
Operator : JC\MD
Sample : VN0619WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBL01

Quant Time: Jun 20 01:20:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



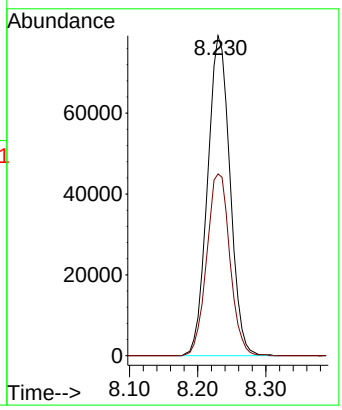


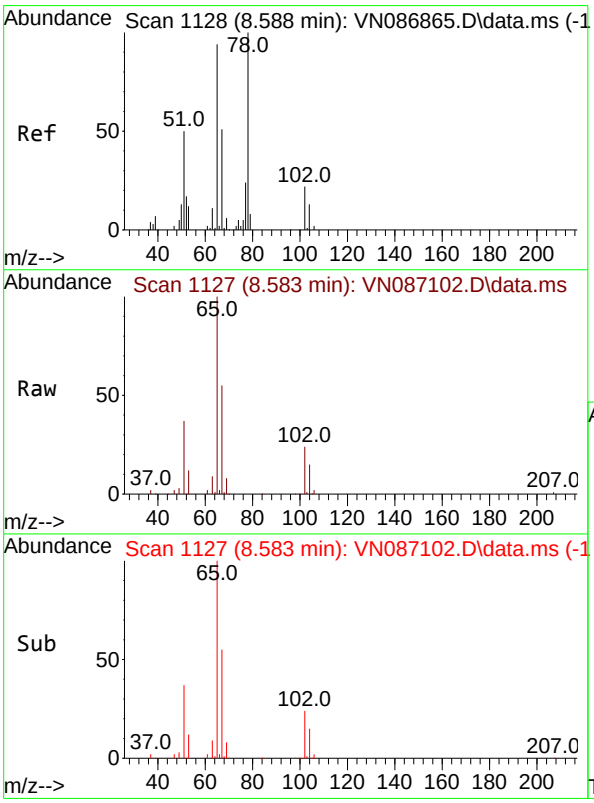
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087102.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBL01

Tgt Ion:168 Resp: 180966

Ion	Ratio	Lower	Upper
168	100		
99	56.8	49.1	73.7

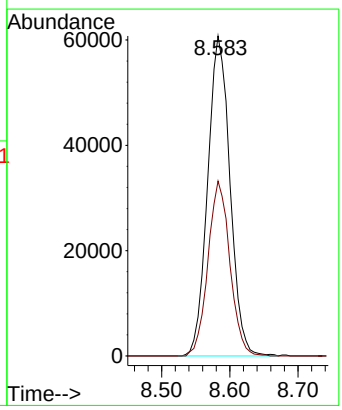


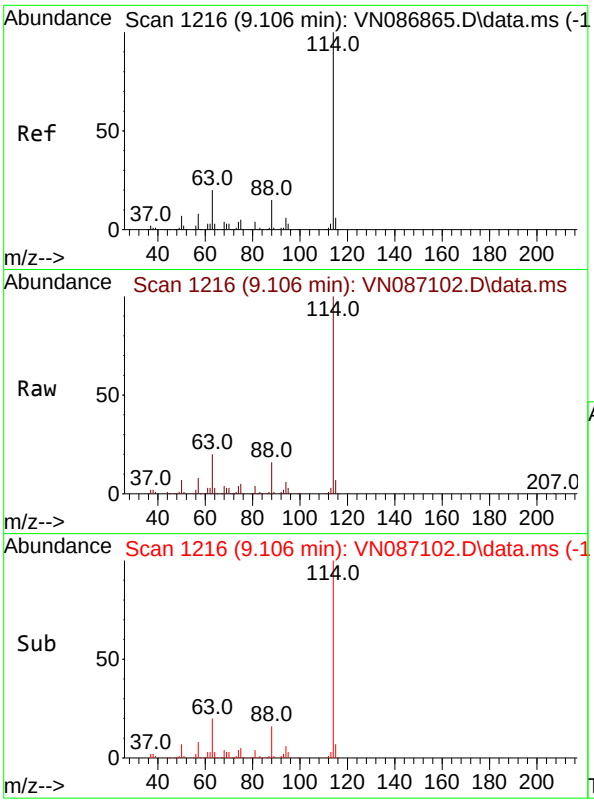


#33
1,2-Dichloroethane-d4
Concen: 57.091 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087102.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 65 Resp: 138328

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	105.6



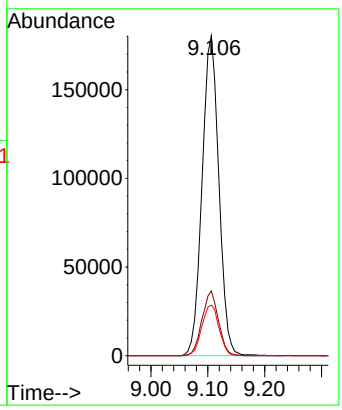


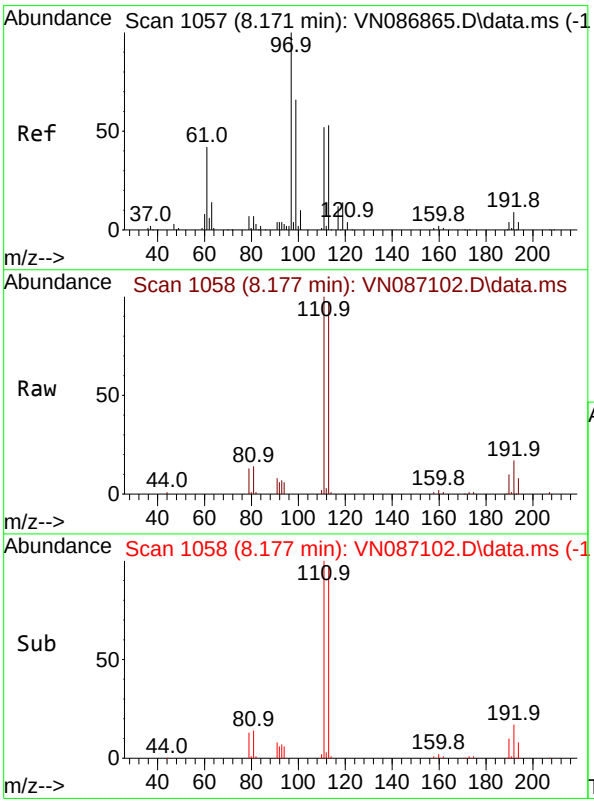
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087102.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBL01

Tgt Ion:114 Resp: 368878

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	39.6
88	15.8	0.0	30.2

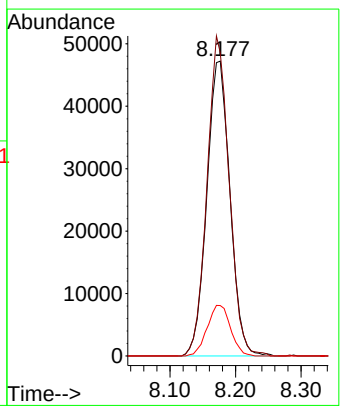


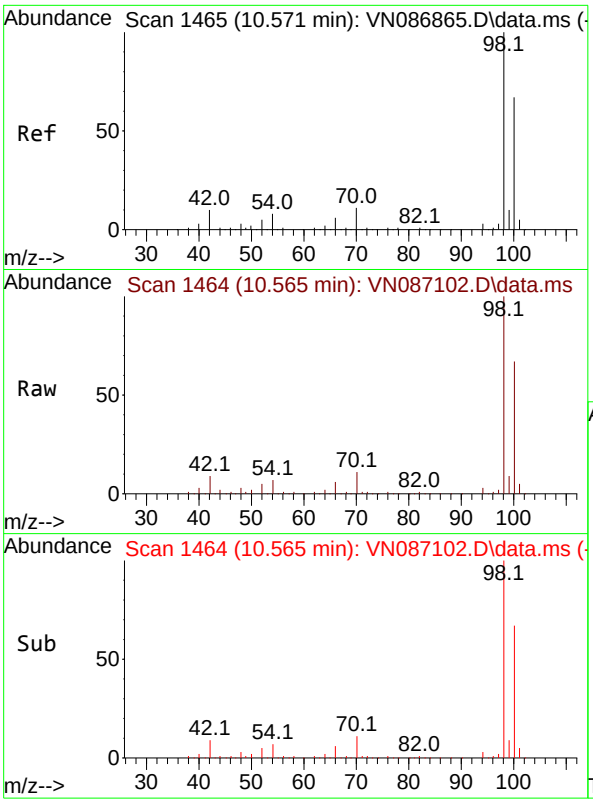


#35
Dibromofluoromethane
Concen: 53.071 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087102.D
Acq: 19 Jun 2025 10:26

Tgt Ion:113 Resp: 116016

Ion	Ratio	Lower	Upper
113	100		
111	103.6	84.2	126.2
192	17.3	14.2	21.4



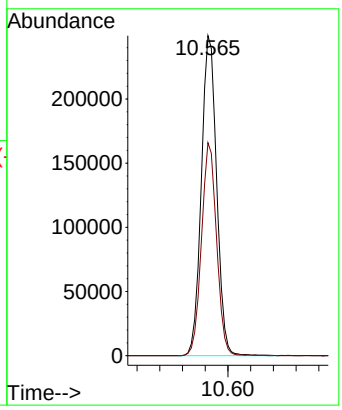


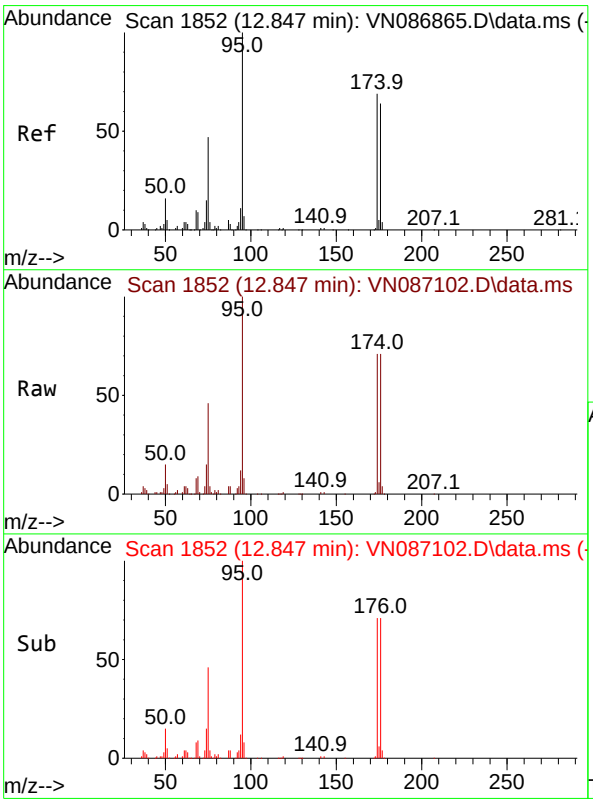
#50
Toluene-d8
Concen: 53.793 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN087102.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBL01

Tgt Ion: 98 Resp: 465529

Ion	Ratio	Lower	Upper
98	100		
100	65.6	53.4	80.0

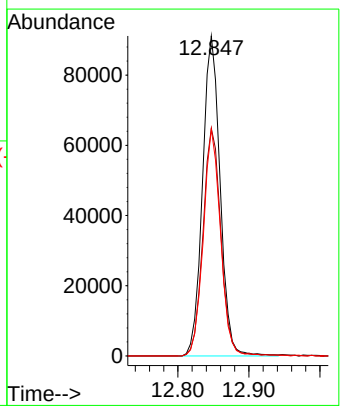


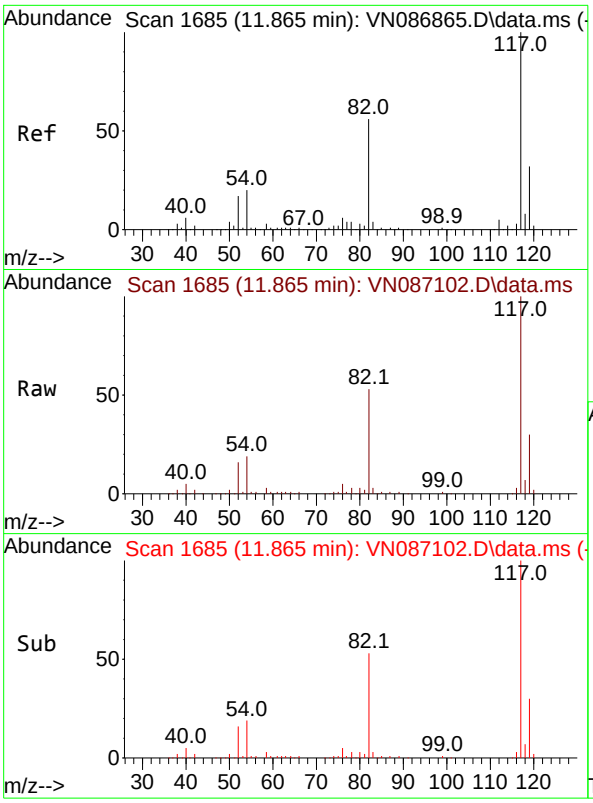


#62
4-Bromofluorobenzene
Concen: 48.914 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087102.D
Acq: 19 Jun 2025 10:26

Tgt Ion: 95 Resp: 157268

Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	141.8
176	69.7	0.0	132.6



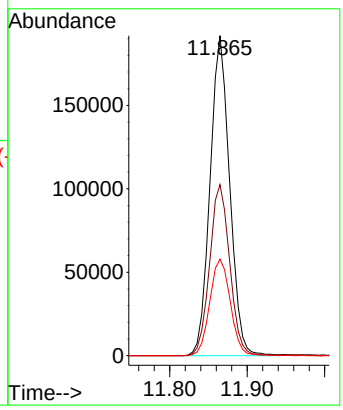


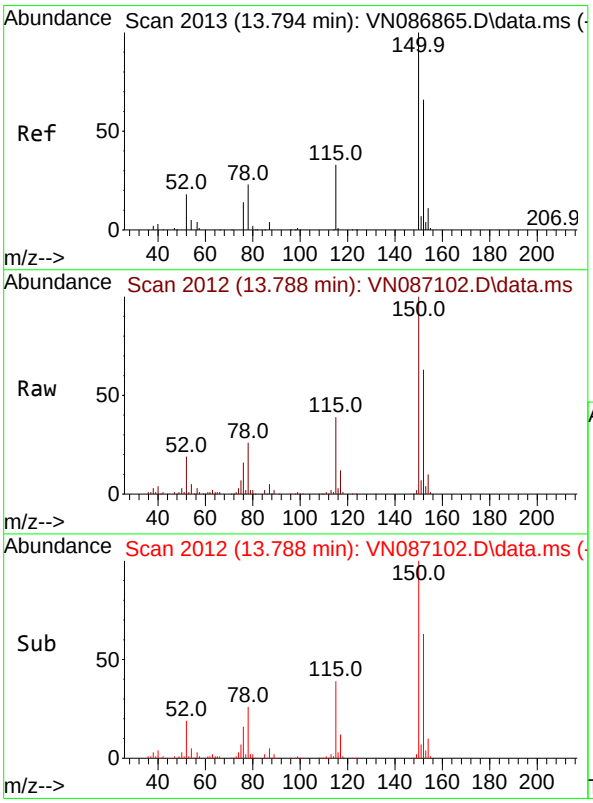
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087102.D
Acq: 19 Jun 2025 10:26

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBL01

Tgt Ion:117 Resp: 337249

Ion	Ratio	Lower	Upper
117	100		
82	53.4	44.6	67.0
119	30.2	25.5	38.3

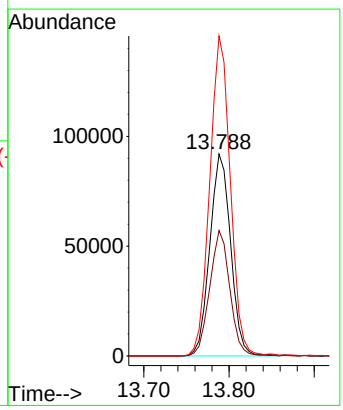




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087102.D
Acq: 19 Jun 2025 10:26

Tgt Ion:152 Resp: 156562

Ion	Ratio	Lower	Upper
152	100		
115	59.9	30.1	90.5
150	156.9	0.0	345.0



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0617WBS01	SDG No.:	Q2329
Lab Sample ID:	VN0617WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087051.D	1		06/17/25 11:59	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	20.3		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	17.7		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	21.5		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	20.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	21.6		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	21.1		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.8		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.7		0.23	0.75	1.00	ug/L
67-64-1	Acetone	88.8		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	22.1		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.8		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	16.2		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	20.0		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	21.0		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.5		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	18.7		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	88.2		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.9		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	20.7		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	17.7		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	20.1		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.3		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	17.2		0.16	0.50	1.00	ug/L
71-43-2	Benzene	20.9		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.0		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	21.4		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.7		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	21.0		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	93.1		0.68	2.50	5.00	ug/L
108-88-3	Toluene	21.4		0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0617WBS01	SDG No.:	Q2329
Lab Sample ID:	VN0617WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087051.D	1		06/17/25 11:59	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	21.2		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.0		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.4		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	85.4		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	21.1		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	21.1		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.5		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	21.3		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.2		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	42.4		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	21.6		0.12	0.50	1.00	ug/L
100-42-5	Styrene	21.9		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	21.6		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.5		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.5		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.2		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	20.9		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.5		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	19.5		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.0		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.2		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.7		81 - 118		97%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		80 - 119		104%	SPK: 50
2037-26-5	Toluene-d8	50.0		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	157000	8.23				
540-36-3	1,4-Difluorobenzene	282000	9.106				
3114-55-4	Chlorobenzene-d5	249000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	123000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0617WBS01	SDG No.:	Q2329
Lab Sample ID:	VN0617WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087051.D	1		06/17/25 11:59	VN061725

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061725\
Data File : VN087051.D
Acq On : 17 Jun 2025 11:59
Operator : JC\MD
Sample : VN0617WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 18 01:44:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	157438	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	281588	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	248700	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122529	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	102637	48.691	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.380%			
35) Dibromofluoromethane	8.177	113	87035	52.156	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.320%			
50) Toluene-d8	10.565	98	330063	49.963	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.920%			
62) 4-Bromofluorobenzene	12.847	95	127024	51.754	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	31857	20.294	ug/l	99
3) Chloromethane	2.401	50	35820	17.671	ug/l	96
4) Vinyl Chloride	2.554	62	44895	21.470	ug/l	99
5) Bromomethane	3.001	94	23461	20.050	ug/l	89
6) Chloroethane	3.159	64	29185	21.608	ug/l	99
7) Trichlorofluoromethane	3.530	101	57670	21.109	ug/l	96
8) Diethyl Ether	3.989	74	25284	21.241	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.400	101	35697	20.797	ug/l	98
10) Methyl Iodide	4.612	142	21949	9.865	ug/l	97
11) Tert butyl alcohol	5.536	59	51022	89.205	ug/l	98
12) 1,1-Dichloroethene	4.371	96	38036	21.706	ug/l	90
13) Acrolein	4.200	56	28602	157.981	ug/l	100
14) Allyl chloride	5.053	41	53962	18.568	ug/l	96
15) Acrylonitrile	5.736	53	127531	95.394	ug/l	99
16) Acetone	4.448	43	99313	88.843	ug/l	100
17) Carbon Disulfide	4.742	76	107330	22.143	ug/l	97
18) Methyl Acetate	5.047	43	52657	16.164	ug/l	95
19) Methyl tert-butyl Ether	5.812	73	125530	19.785	ug/l	97
20) Methylene Chloride	5.300	84	41757	19.953	ug/l	95
21) trans-1,2-Dichloroethene	5.812	96	40883	20.970	ug/l	93
22) Diisopropyl ether	6.683	45	117172	19.127	ug/l	98
23) Vinyl Acetate	6.618	43	515374	99.575	ug/l	98
24) 1,1-Dichloroethane	6.589	63	72122	20.458	ug/l	98
25) 2-Butanone	7.494	43	160313	88.228	ug/l	99
26) 2,2-Dichloropropane	7.500	77	61973	22.599	ug/l	98
27) cis-1,2-Dichloroethene	7.500	96	48236	20.688	ug/l	98
28) Bromochloromethane	7.824	49	30593	17.650	ug/l	89
29) Tetrahydrofuran	7.847	42	108501	91.665	ug/l	94
30) Chloroform	7.971	83	70607	20.055	ug/l	99
31) Cyclohexane	8.265	56	63824	18.668	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	60917	20.344	ug/l	93
36) 1,1-Dichloropropene	8.383	75	52690	21.189	ug/l	98
37) Ethyl Acetate	7.571	43	64952	20.519	ug/l	99
38) Carbon Tetrachloride	8.371	117	50957	20.873	ug/l	95
39) Methylcyclohexane	9.600	83	58485	17.167	ug/l	97
40) Benzene	8.612	78	169691	20.869	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087051.D
Acq On : 17 Jun 2025 11:59
Operator : JC\MD
Sample : VN0617WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 18 01:44:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	33778	19.000	ug/l		95
42) 1,2-Dichloroethane	8.677	62	51707	20.965	ug/l		100
43) Isopropyl Acetate	8.694	43	94051	18.512	ug/l		96
44) Trichloroethene	9.353	130	41200	21.368	ug/l		98
45) 1,2-Dichloropropane	9.624	63	41010	20.731	ug/l		99
46) Dibromomethane	9.712	93	28519	21.704	ug/l		95
47) Bromodichloromethane	9.888	83	56790	21.006	ug/l		98
48) Methyl methacrylate	9.682	41	44182	18.894	ug/l		97
49) 1,4-Dioxane	9.706	88	16851	396.113	ug/l	#	96
51) 4-Methyl-2-Pentanone	10.447	43	284888	93.145	ug/l		97
52) Toluene	10.629	92	106583	21.448	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	63945	21.153	ug/l		95
54) cis-1,3-Dichloropropene	10.312	75	67853	20.978	ug/l		99
55) 1,1,2-Trichloroethane	11.018	97	40974	21.429	ug/l		97
56) Ethyl methacrylate	10.882	69	61756	20.278	ug/l		93
57) 1,3-Dichloropropane	11.165	76	70252	21.180	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	167427	92.171	ug/l		98
59) 2-Hexanone	11.206	43	168311	85.432	ug/l		93
60) Dibromochloromethane	11.359	129	42009	21.087	ug/l		99
61) 1,2-Dibromoethane	11.471	107	41422	21.135	ug/l		97
64) Tetrachloroethene	11.106	164	32201	20.459	ug/l		95
65) Chlorobenzene	11.888	112	117016	21.333	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	38683	21.939	ug/l		98
67) Ethyl Benzene	11.965	91	191185	20.235	ug/l		99
68) m/p-Xylenes	12.071	106	153323	42.393	ug/l		98
69) o-Xylene	12.400	106	74694	21.564	ug/l		97
70) Styrene	12.412	104	129584	21.862	ug/l		98
71) Bromoform	12.576	173	28209	21.592	ug/l	#	95
73) Isopropylbenzene	12.694	105	183037	20.505	ug/l		99
74) N-amyl acetate	12.547	43	57325m	18.378	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.935	83	64970	21.484	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	54364m	18.665	ug/l		
77) Bromobenzene	12.982	156	45556	22.254	ug/l		95
78) n-propylbenzene	13.035	91	211448	19.492	ug/l		96
79) 2-Chlorotoluene	13.123	91	130050	19.991	ug/l		96
80) 1,3,5-Trimethylbenzene	13.171	105	146312	19.853	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	22976	18.159	ug/l	#	91
82) 4-Chlorotoluene	13.218	91	130303	19.795	ug/l		96
83) tert-Butylbenzene	13.435	119	124546	18.462	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	150274	20.334	ug/l		100
85) sec-Butylbenzene	13.612	105	175237	17.887	ug/l		97
86) p-Isopropyltoluene	13.729	119	152581	18.841	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	85450	21.216	ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	85795	20.893	ug/l		98
89) n-Butylbenzene	14.053	91	126981	16.188	ug/l		95
90) Hexachloroethane	14.335	117	24929	18.160	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	83067	21.467	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	14110	19.510	ug/l		93
93) 1,2,4-Trichlorobenzene	15.388	180	44436	17.983	ug/l		95
94) Hexachlorobutadiene	15.500	225	12332	13.396	ug/l		96
95) Naphthalene	15.635	128	237029	25.772	ug/l	#	95
96) 1,2,3-Trichlorobenzene	15.835	180	42260	17.214	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087051.D
Acq On : 17 Jun 2025 11:59
Operator : JC\MD
Sample : VN0617WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 18 01:44:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

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

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

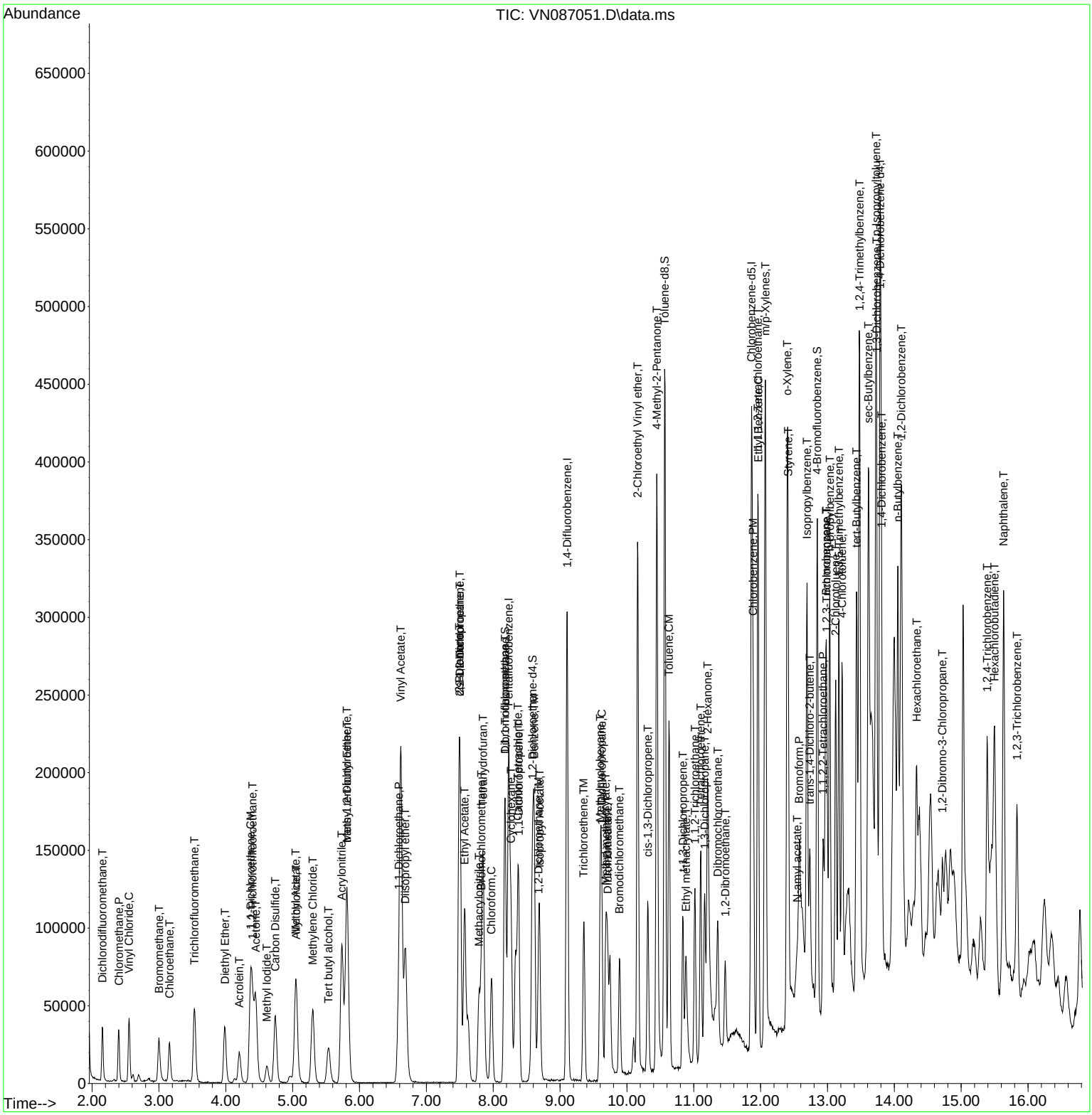
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087051.D
Acq On : 17 Jun 2025 11:59
Operator : JC\MD
Sample : VN0617WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

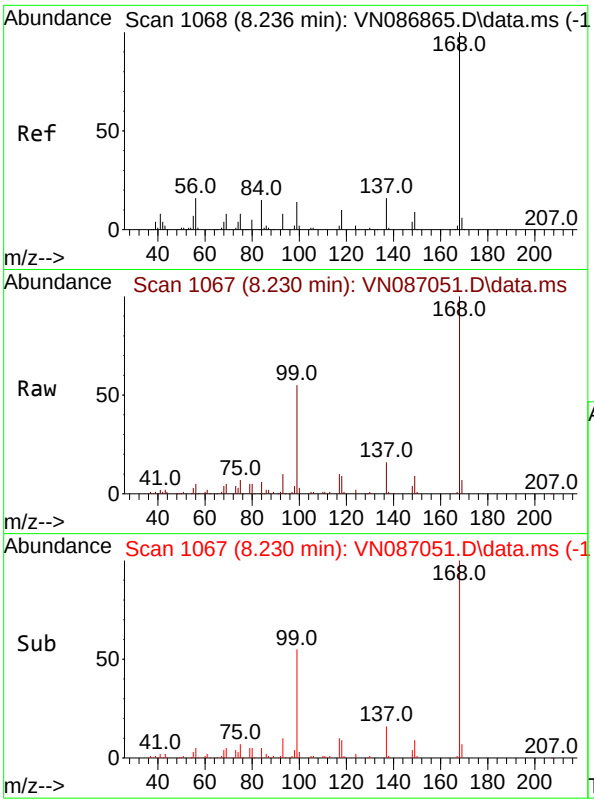
Quant Time: Jun 18 01:44:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

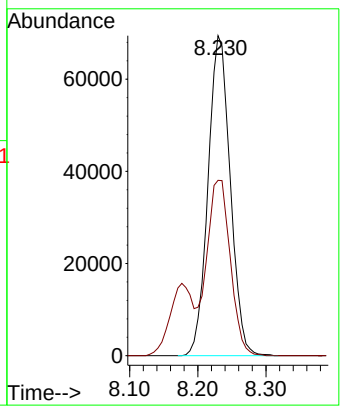




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:168 Resp: 15743

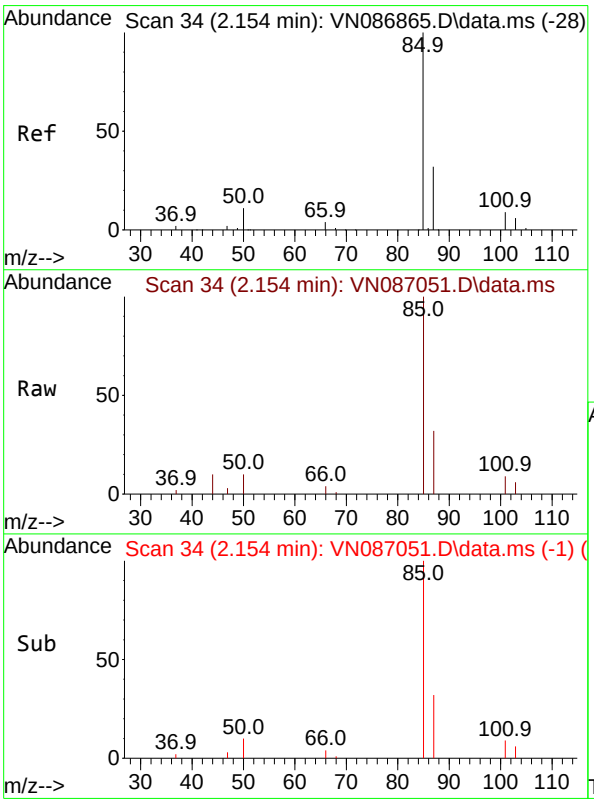
Ion	Ratio	Lower	Upper
168	100		
99	54.8	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

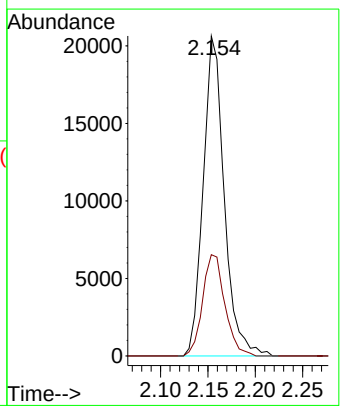
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

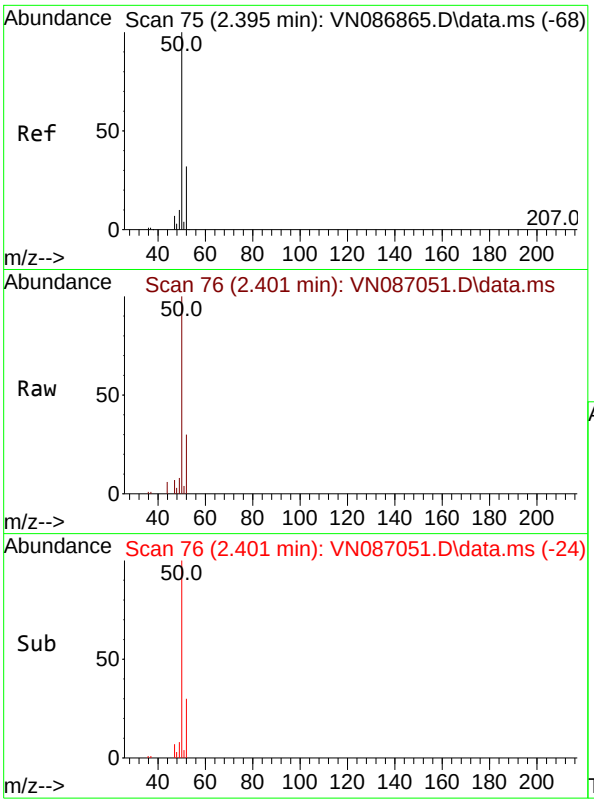


#2
Dichlorodifluoromethane
Concen: 20.294 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 85 Resp: 31857

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.2	48.6

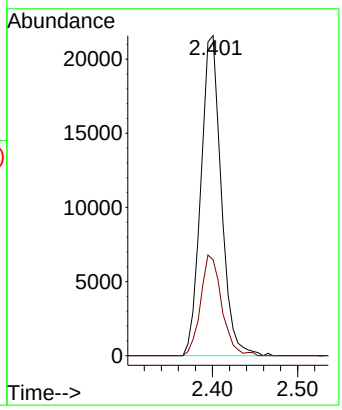




#3
Chloromethane
Concen: 17.671 ug/l
RT: 2.401 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 50 Resp: 3582

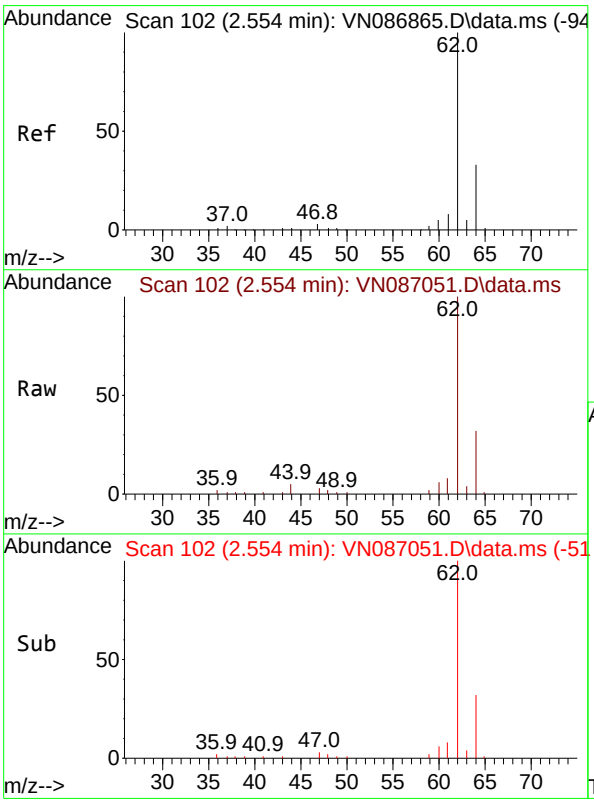
Ion	Ratio	Lower	Upper
50	100		
52	30.0	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

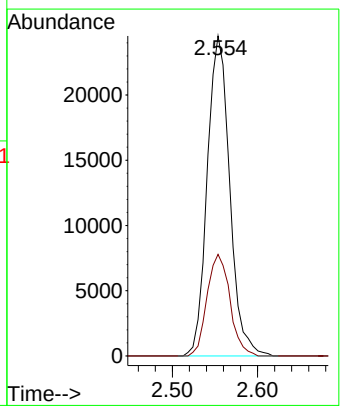
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

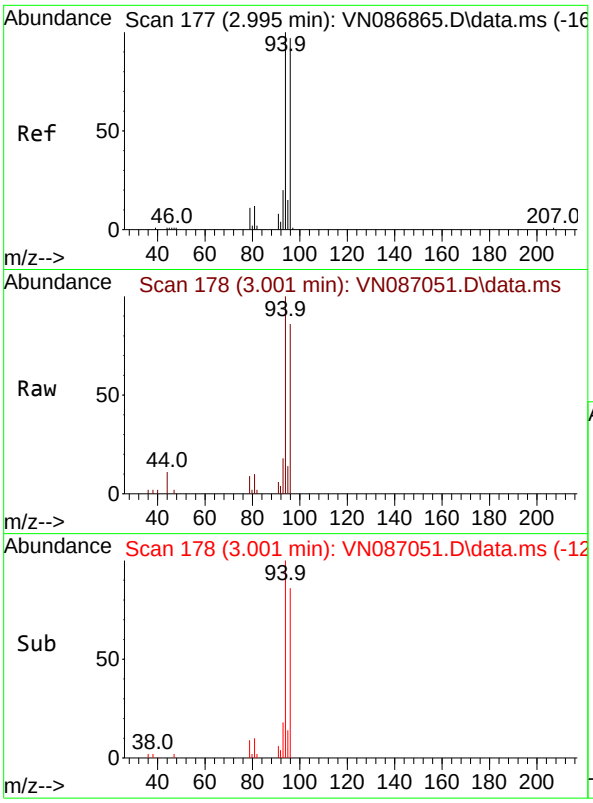


#4
Vinyl Chloride
Concen: 21.470 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 62 Resp: 44895

Ion	Ratio	Lower	Upper
62	100		
64	31.8	26.0	39.0

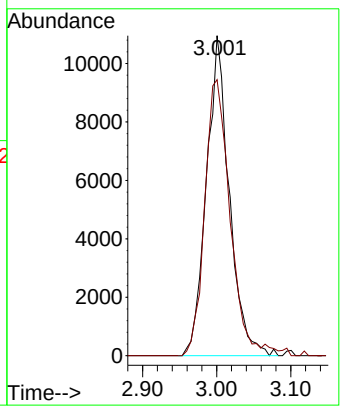




#5
Bromomethane
Concen: 20.050 ug/l
RT: 3.001 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 94 Resp: 2346

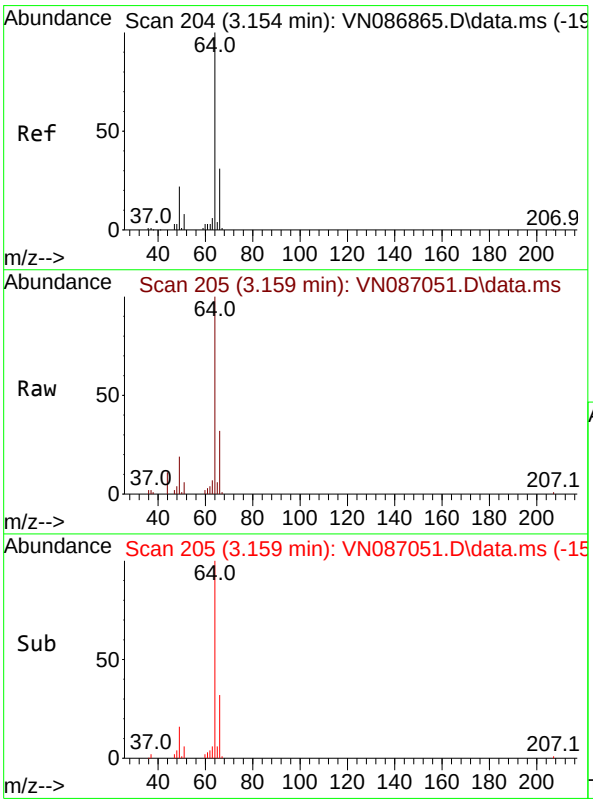
Ion	Ratio	Lower	Upper
94	100		
96	86.2	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

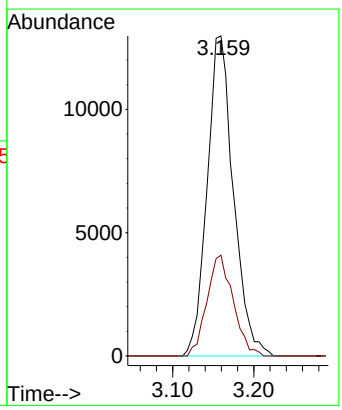
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

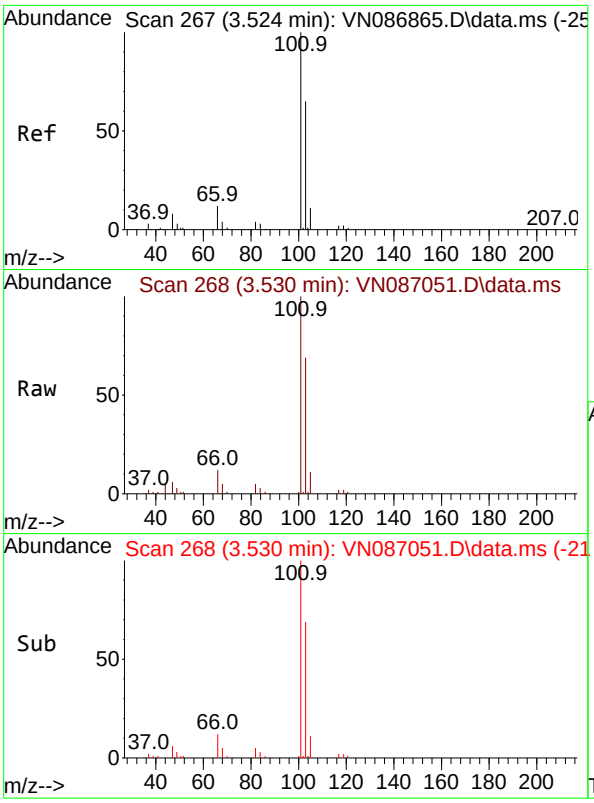


#6
Chloroethane
Concen: 21.608 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 64 Resp: 29185

Ion	Ratio	Lower	Upper
64	100		
66	31.5	24.6	36.8

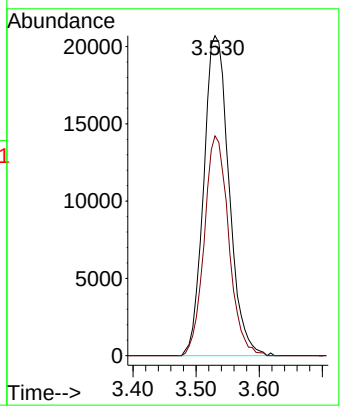




#7
Trichlorofluoromethane
Concen: 21.109 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:101 Resp: 5767

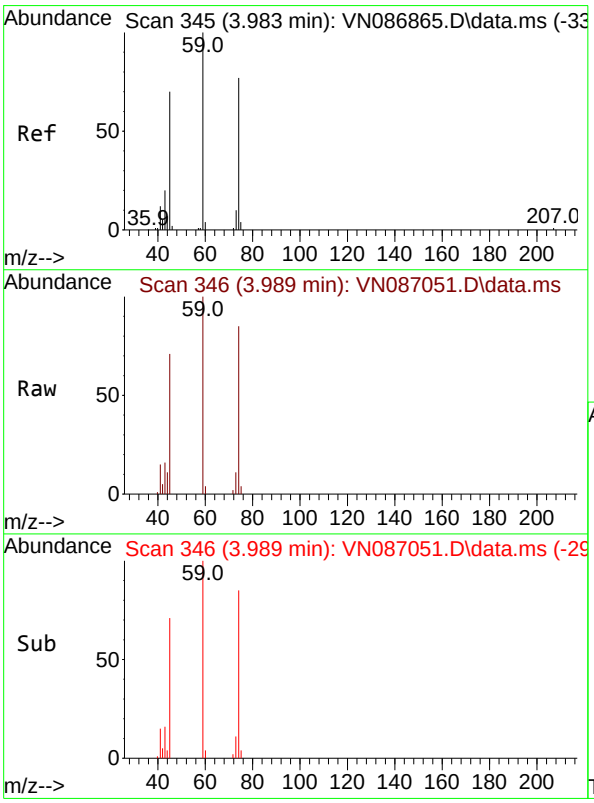
Ion	Ratio	Lower	Upper
101	100		
103	68.7	52.2	78.2



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

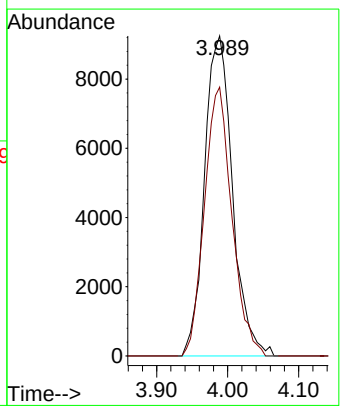
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

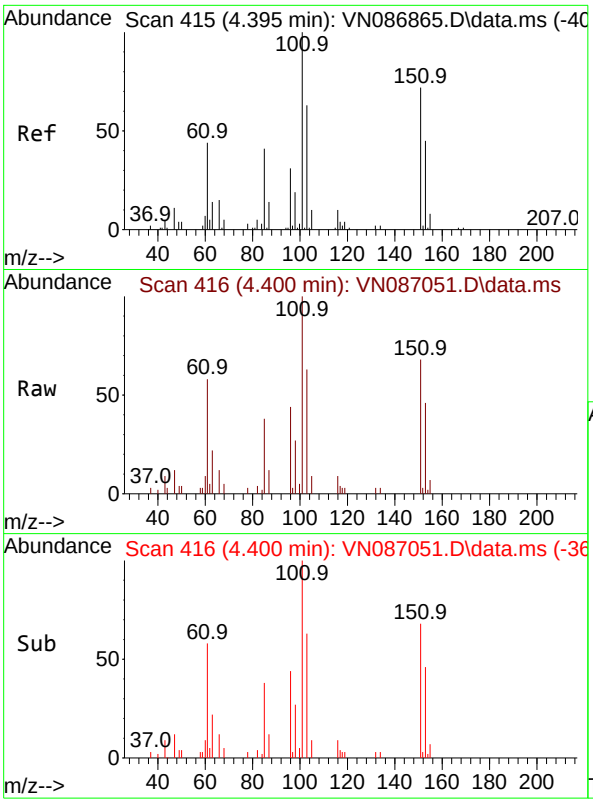


#8
Diethyl Ether
Concen: 21.241 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 74 Resp: 25284

Ion	Ratio	Lower	Upper
74	100		
45	82.6	45.5	136.5

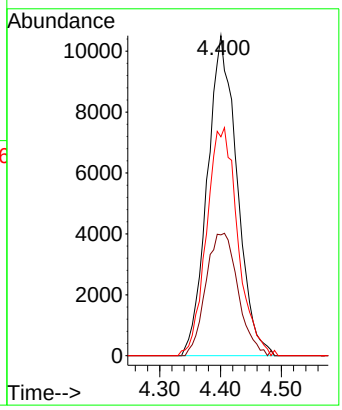




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.797 ug/l
RT: 4.400 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:101 Resp: 3569

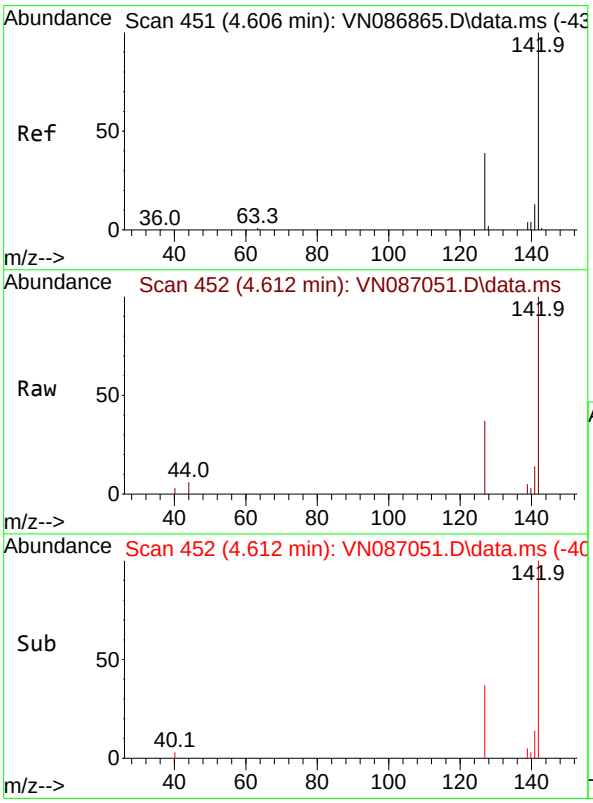
Ion	Ratio	Lower	Upper
101	100		
85	41.4	33.8	50.8
151	74.8	58.7	88.1



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

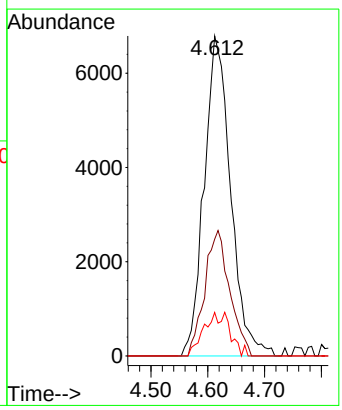
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

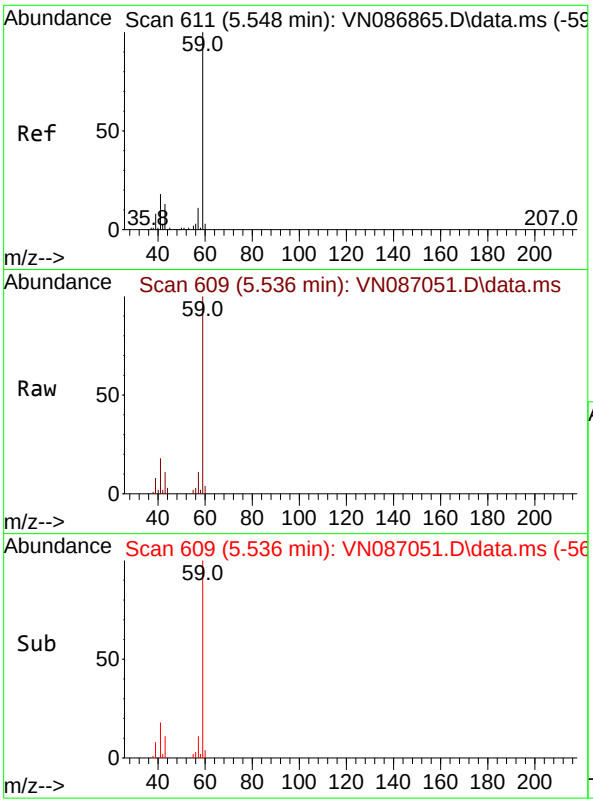


#10
Methyl Iodide
Concen: 9.865 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:142 Resp: 21949

Ion	Ratio	Lower	Upper
142	100		
127	36.5	30.9	46.3
141	13.6	10.4	15.6

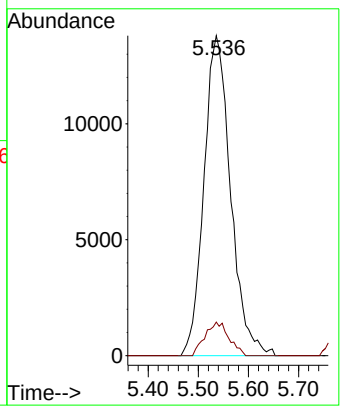




#11
Tert butyl alcohol
Concen: 89.205 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 59 Resp: 5102

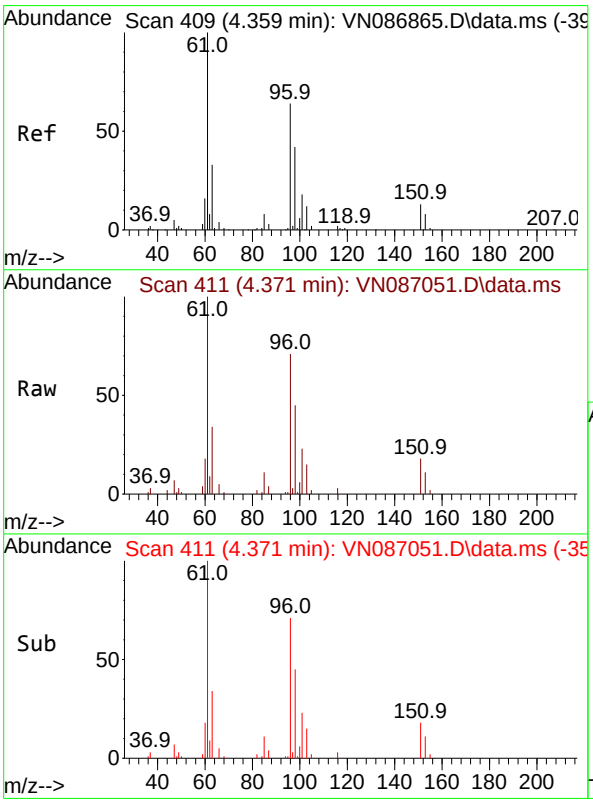
Ion	Ratio	Lower	Upper
59	100		
57	9.4	8.1	12.1



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

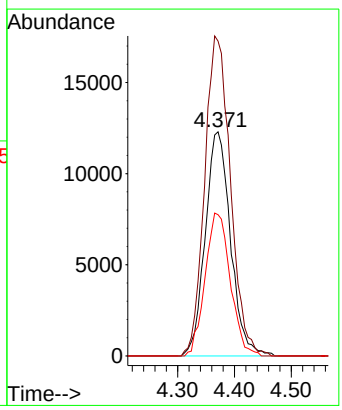
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

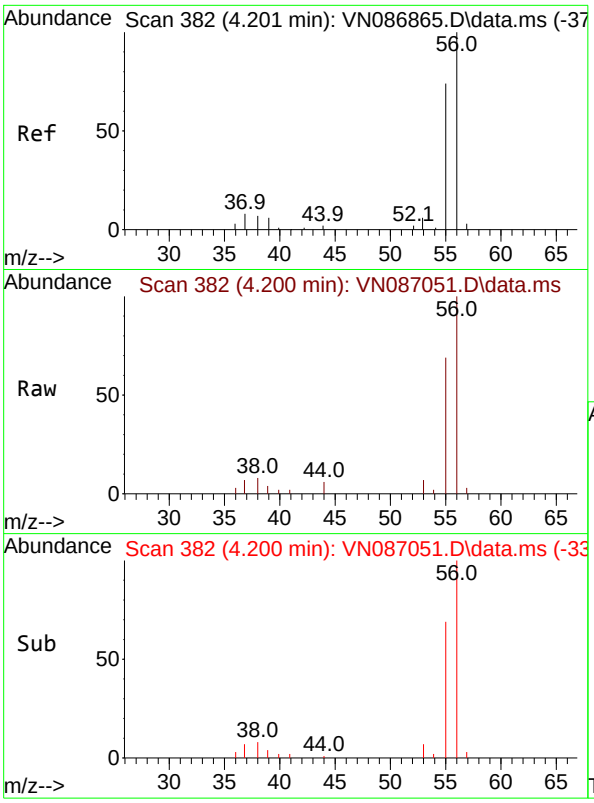


#12
1,1-Dichloroethene
Concen: 21.706 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 96 Resp: 38036

Ion	Ratio	Lower	Upper
96	100		
61	140.5	125.8	188.6
98	63.0	52.5	78.7

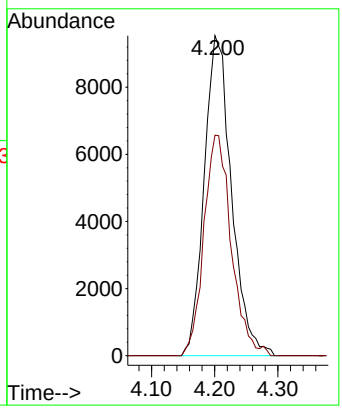




#13
Acrolein
Concen: 157.981 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 56 Resp: 2860

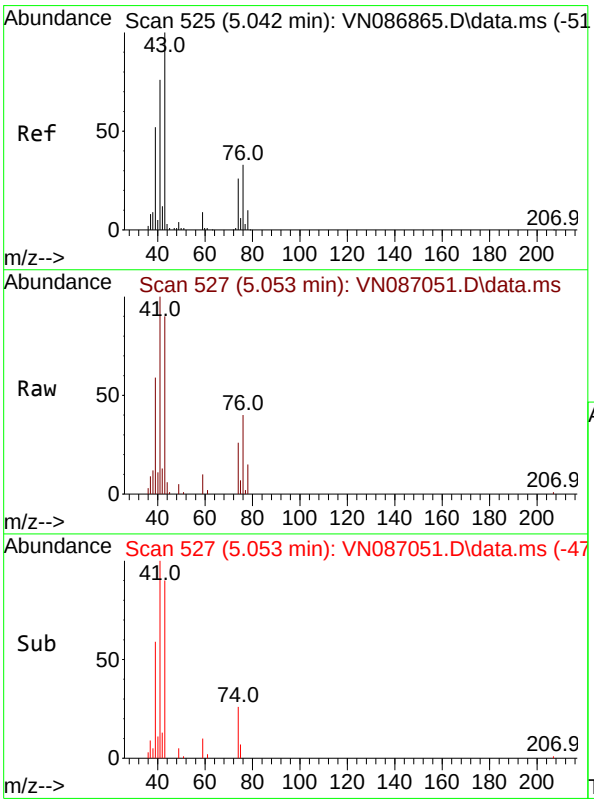
Ion	Ratio	Lower	Upper
56	100		
55	69.3	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

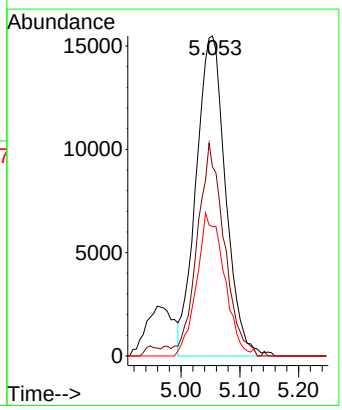
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

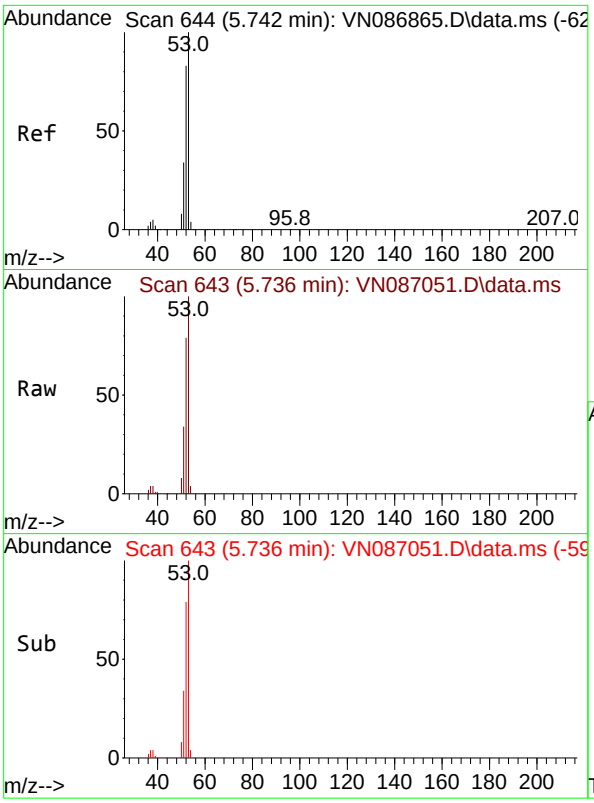


#14
Allyl chloride
Concen: 18.568 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.012 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 41 Resp: 53962

Ion	Ratio	Lower	Upper
41	100		
39	61.1	51.3	76.9
76	41.9	31.4	47.0





#15
Acrylonitrile
Concen: 95.394 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

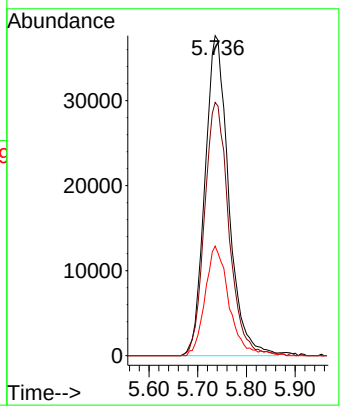
Tgt Ion: 53 Resp: 12753

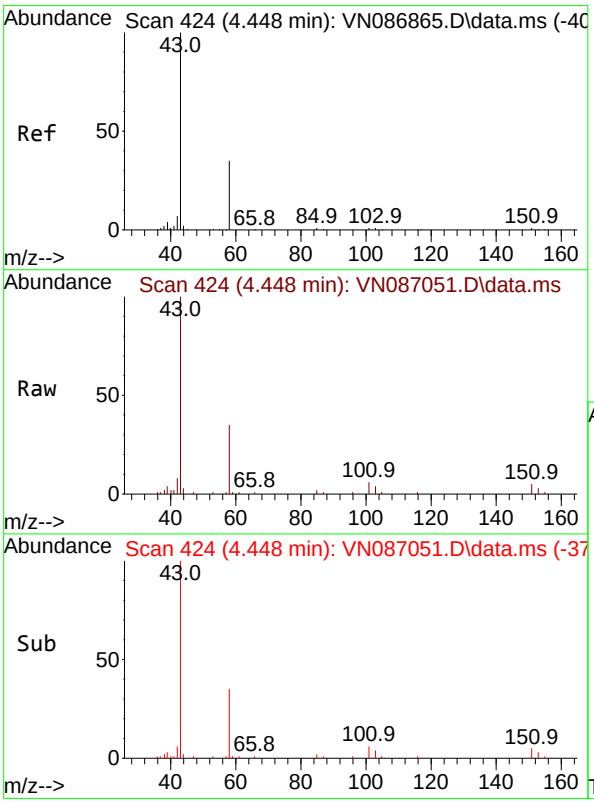
Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.0	97.6
51	34.7	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

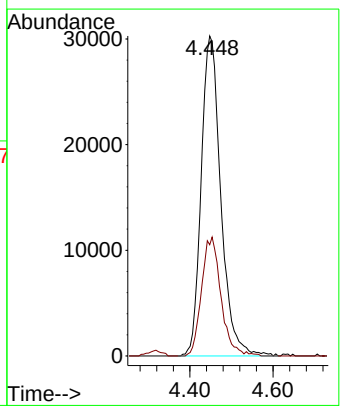


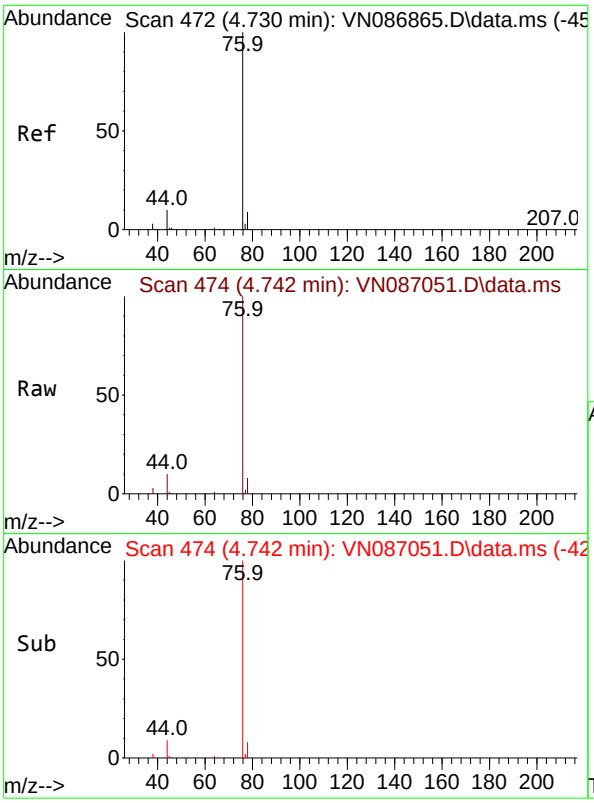


#16
Acetone
Concen: 88.843 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 43 Resp: 99313

Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.0	42.0

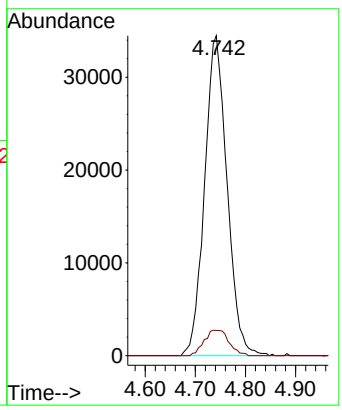




#17
Carbon Disulfide
Concen: 22.143 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 76 Resp: 10733

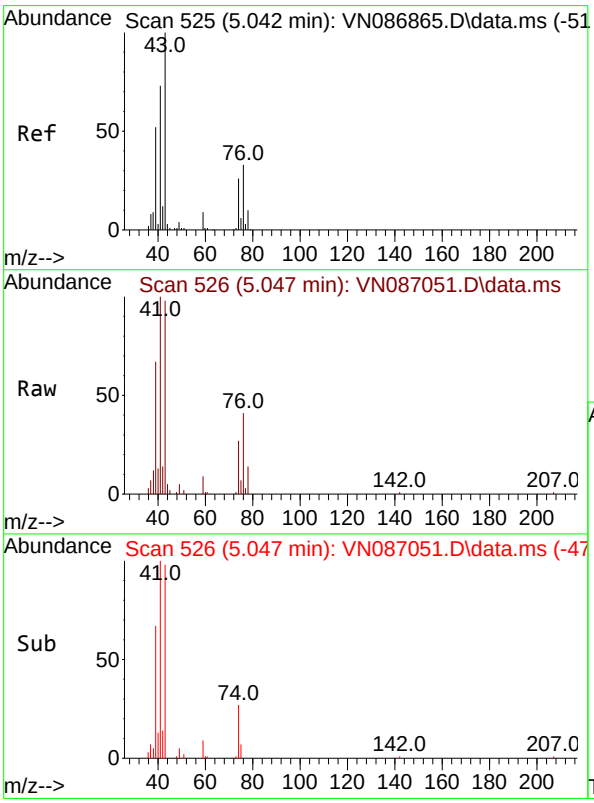
Ion	Ratio	Lower	Upper
76	100		
78	7.9	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

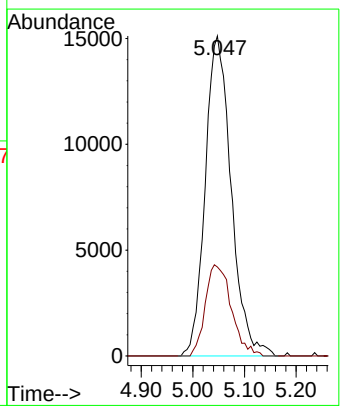
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

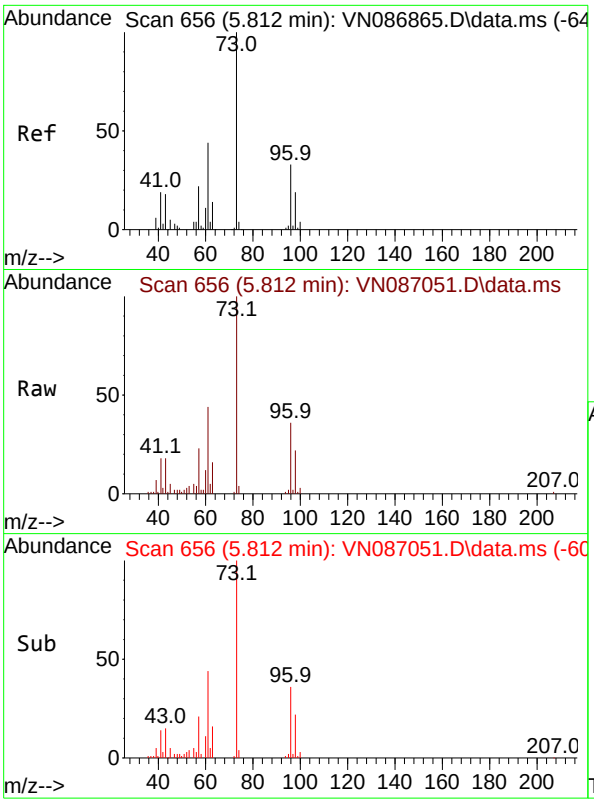


#18
Methyl Acetate
Concen: 16.164 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 43 Resp: 52657

Ion	Ratio	Lower	Upper
43	100		
74	28.5	20.7	31.1

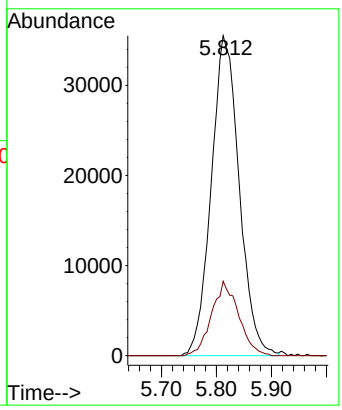




#19
Methyl tert-butyl Ether
Concen: 19.785 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 73 Resp: 12553

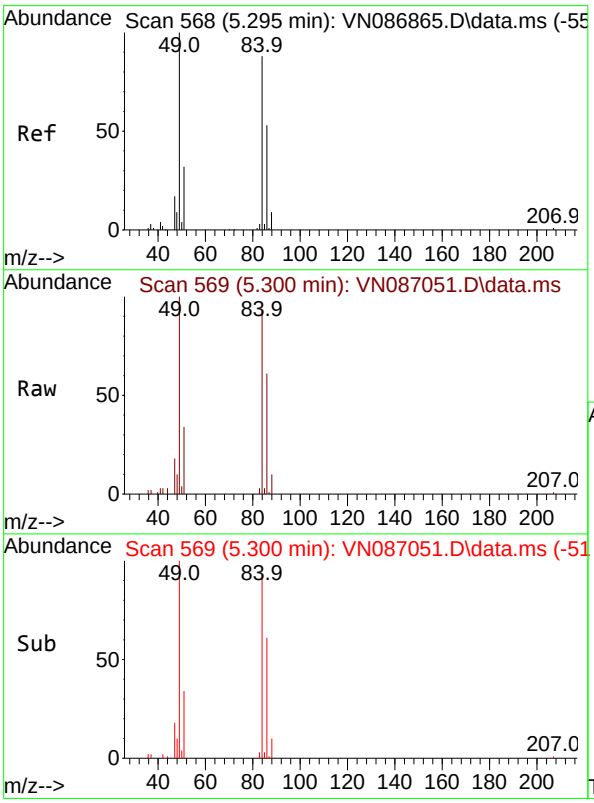
Ion	Ratio	Lower	Upper
73	100		
57	23.2	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

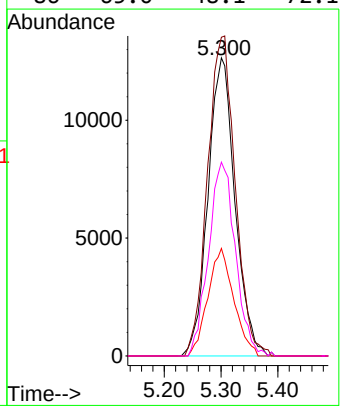
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

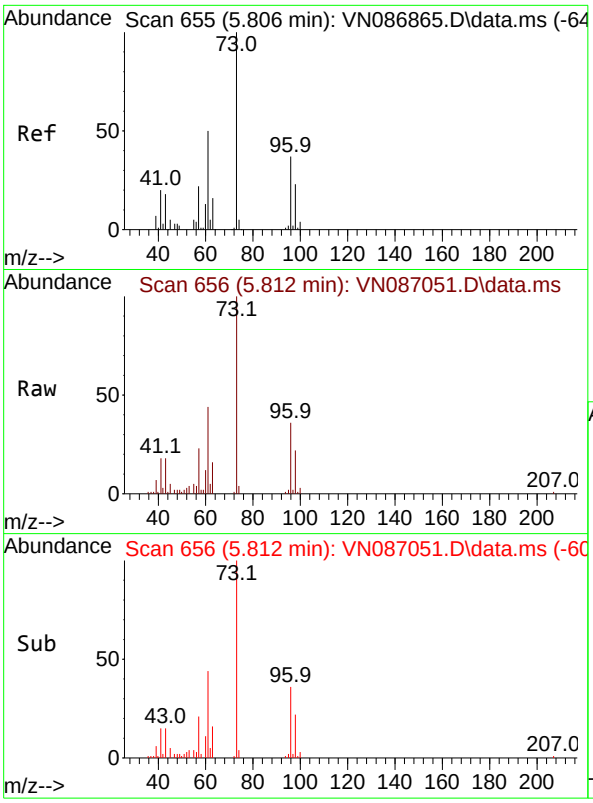


#20
Methylene Chloride
Concen: 19.953 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 84 Resp: 41757

Ion	Ratio	Lower	Upper
84	100		
49	107.0	90.5	135.7
51	36.1	28.5	42.7
86	65.0	48.1	72.1

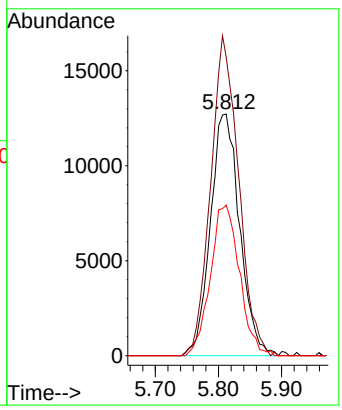




#21
trans-1,2-Dichloroethene
Concen: 20.970 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 96 Resp: 4088

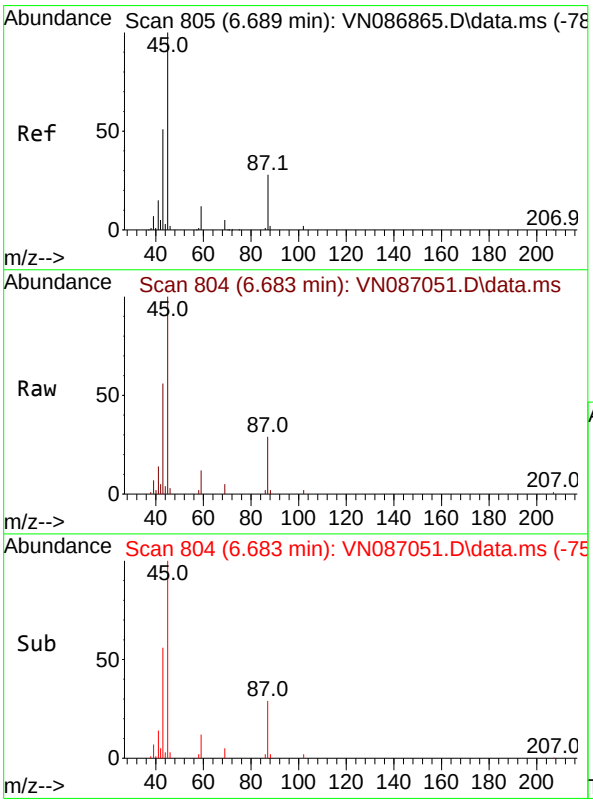
Ion	Ratio	Lower	Upper
96	100		
61	123.6	109.2	163.8
98	62.3	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

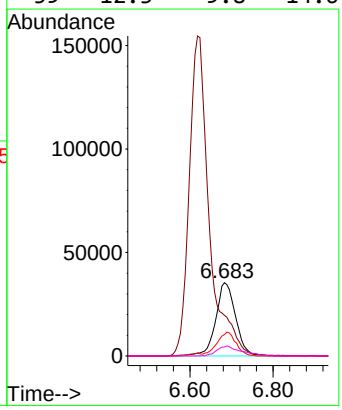
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

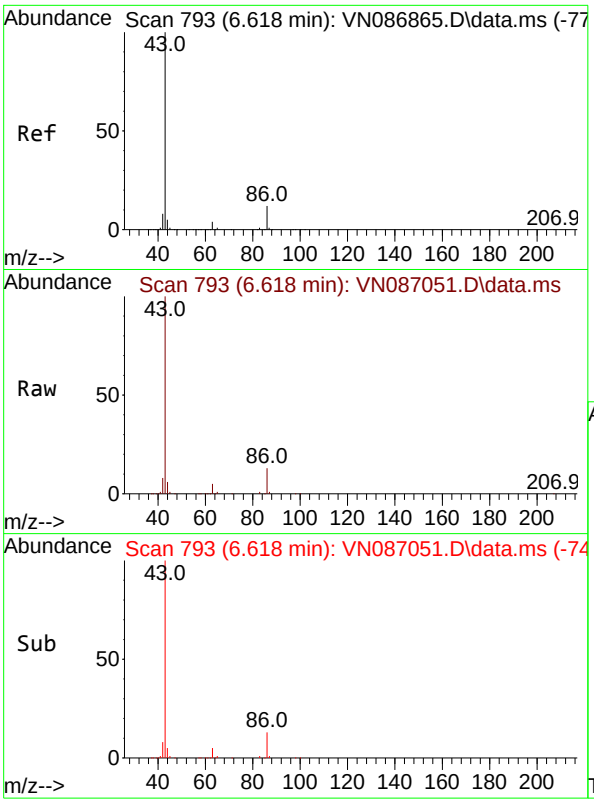


#22
Diisopropyl ether
Concen: 19.127 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 45 Resp: 117172

Ion	Ratio	Lower	Upper
45	100		
43	54.5	41.9	62.9
87	29.3	22.4	33.6
59	12.3	9.8	14.6





#23
Vinyl Acetate
Concen: 99.575 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

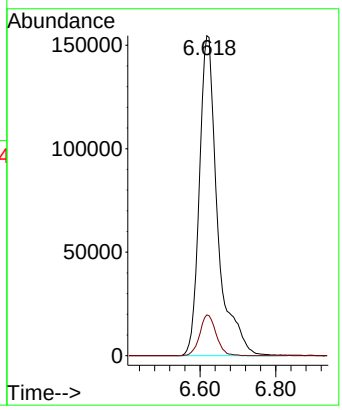
Tgt Ion: 43 Resp: 51537

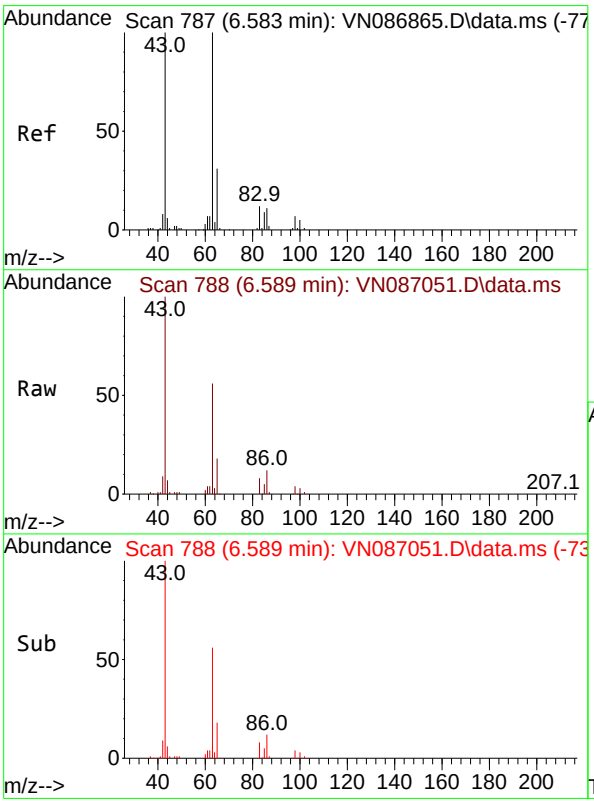
Ion	Ratio	Lower	Upper
43	100		
86	12.8	9.5	14.3

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

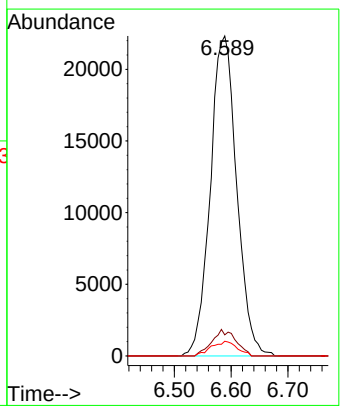


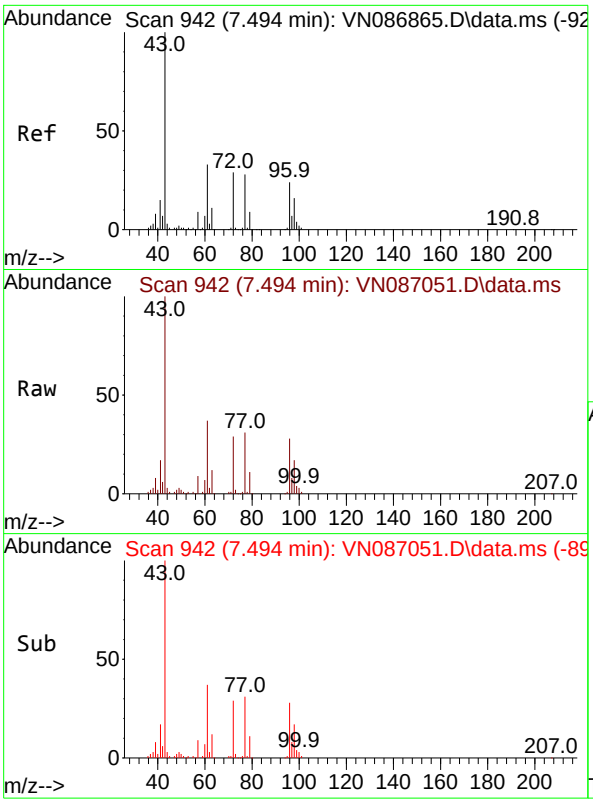


#24
1,1-Dichloroethane
Concen: 20.458 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 63 Resp: 72122

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.6	10.8
100	4.6	2.6	7.8





#25
2-Butanone
Concen: 88.228 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

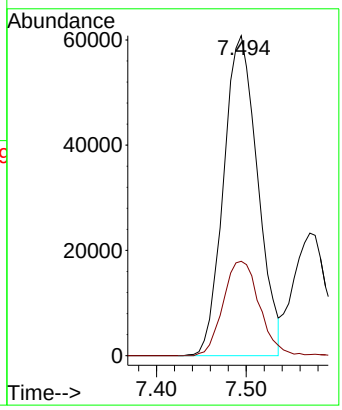
Tgt Ion: 43 Resp: 16031

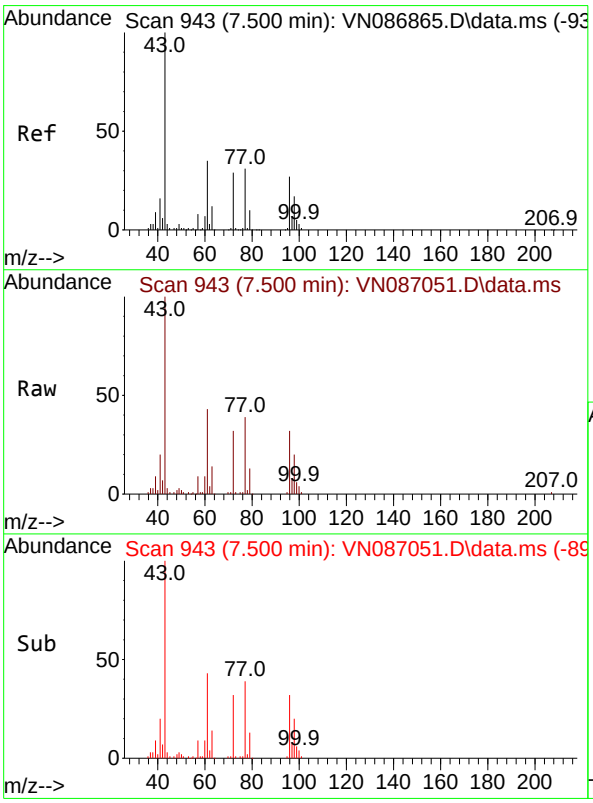
Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

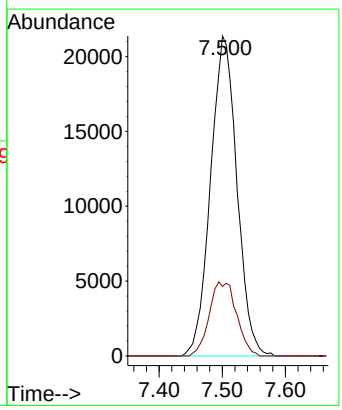


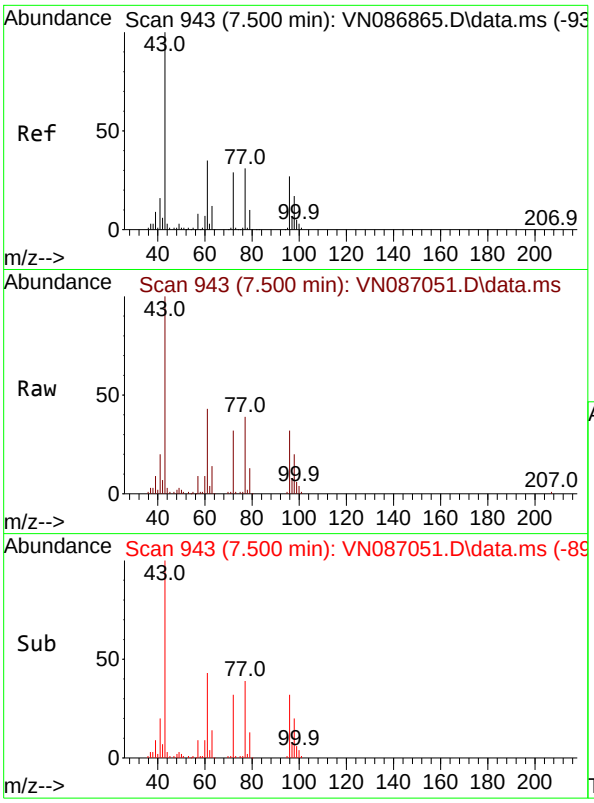


#26
2,2-Dichloropropane
Concen: 22.599 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 77 Resp: 61973

Ion	Ratio	Lower	Upper
77	100		
97	24.0	11.6	34.7





#27
cis-1,2-Dichloroethene
Concen: 20.688 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

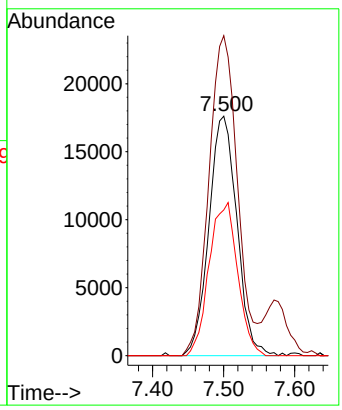
Tgt Ion: 96 Resp: 4823

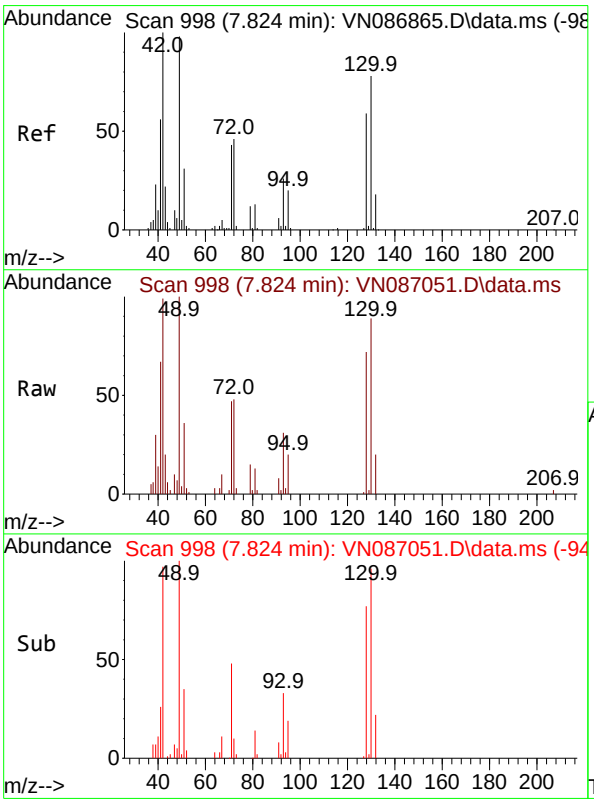
Ion	Ratio	Lower	Upper
96	100		
61	135.6	0.0	278.0
98	65.2	0.0	128.2

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

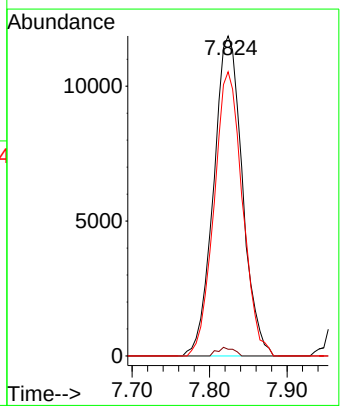


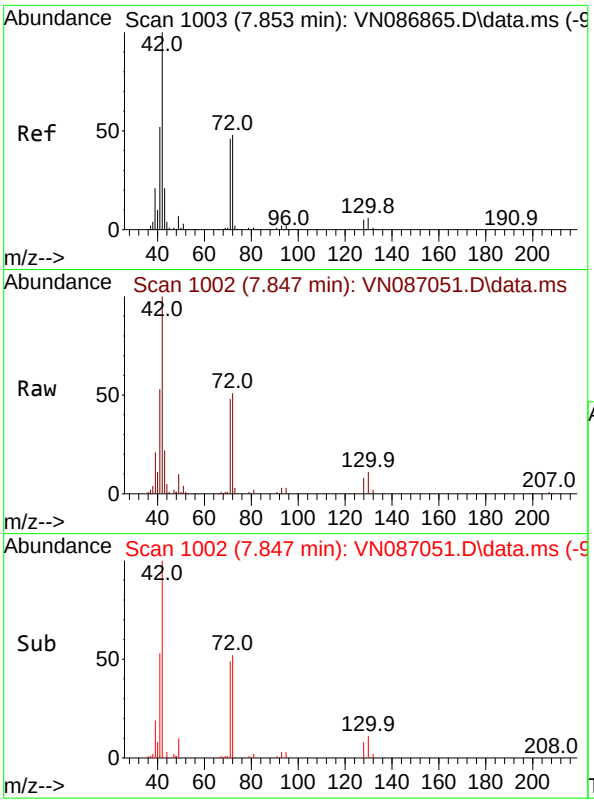


#28
Bromochloromethane
Concen: 17.650 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 49 Resp: 30593

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.8
130	87.8	62.2	93.2

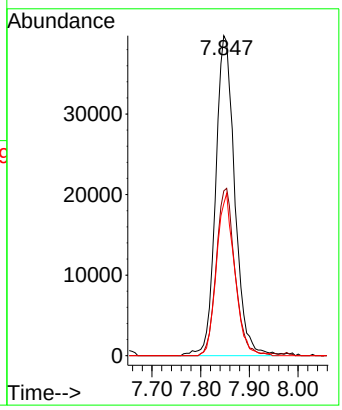




#29
Tetrahydrofuran
Concen: 91.665 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 42 Resp: 10850

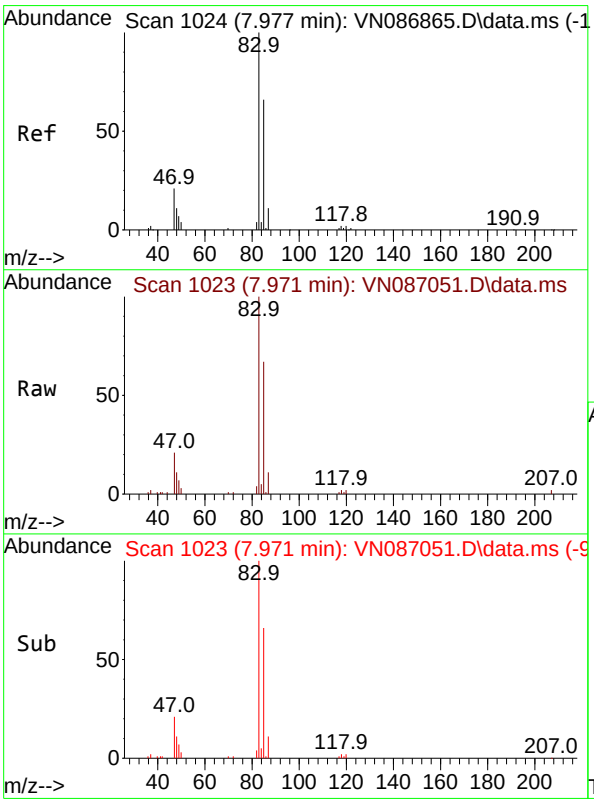
Ion	Ratio	Lower	Upper
42	100		
72	51.1	37.8	56.6
71	48.3	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

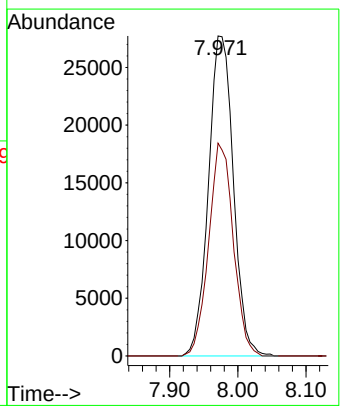
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

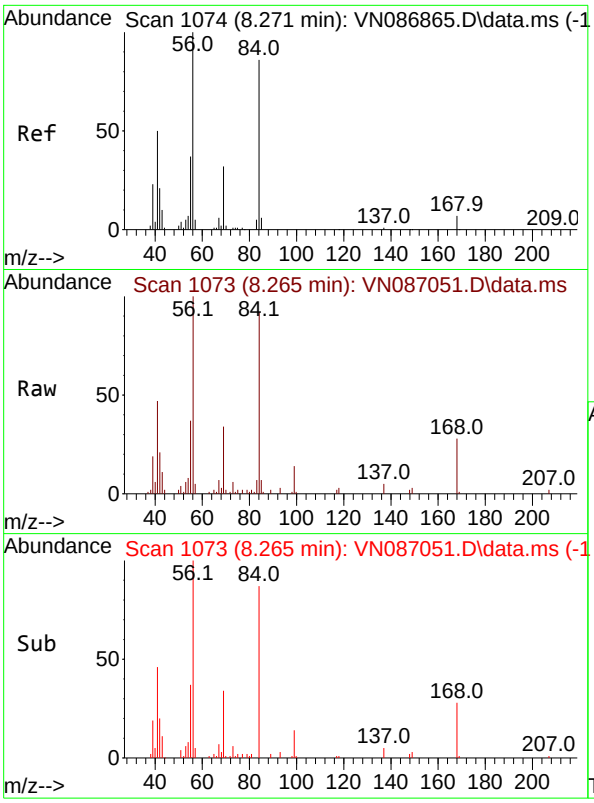


#30
Chloroform
Concen: 20.055 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 83 Resp: 70607

Ion	Ratio	Lower	Upper
83	100		
85	66.5	52.9	79.3

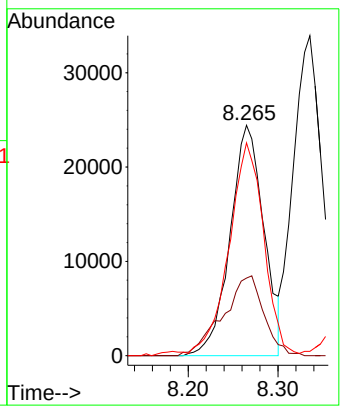




#31
Cyclohexane
Concen: 18.668 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 56 Resp: 6382

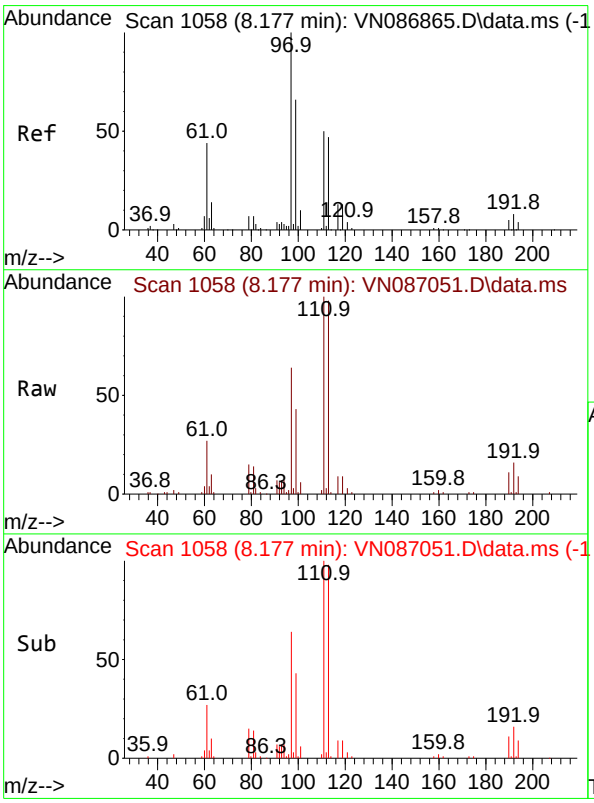
Ion	Ratio	Lower	Upper
56	100		
69	33.7	25.4	38.0
84	90.8	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

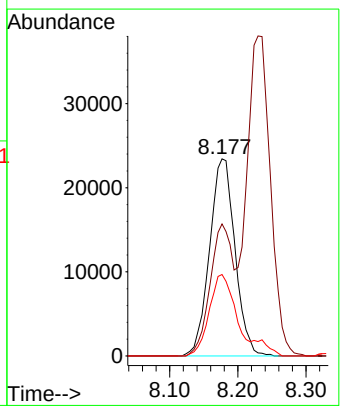
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

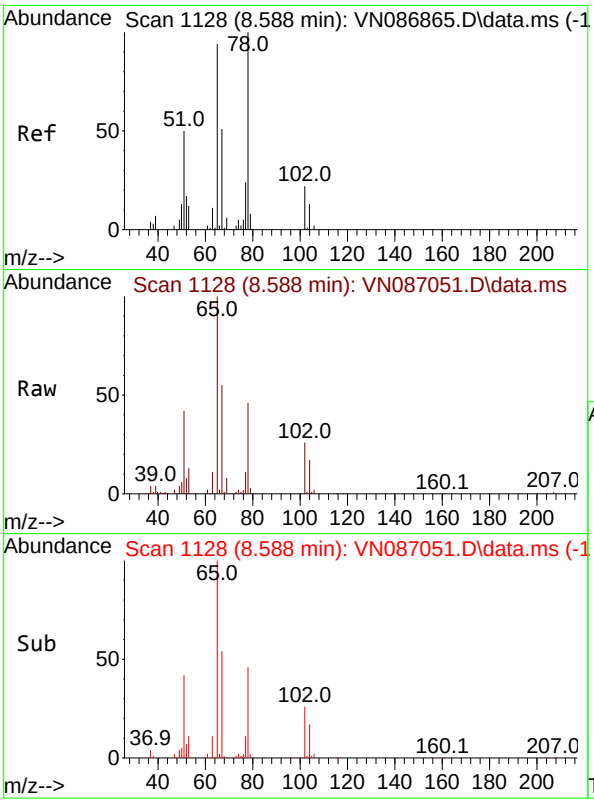


#32
1,1,1-Trichloroethane
Concen: 20.344 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 97 Resp: 60917

Ion	Ratio	Lower	Upper
97	100		
99	58.0	52.0	78.0
61	42.2	35.9	53.9

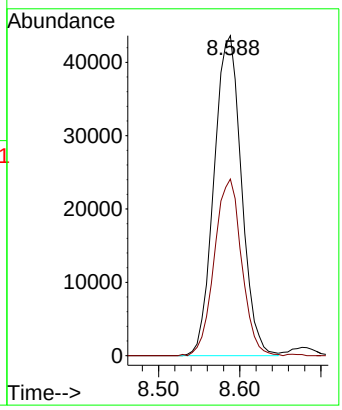




#33
1,2-Dichloroethane-d4
Concen: 48.691 ug/l
RT: 8.588 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 65 Resp: 10263

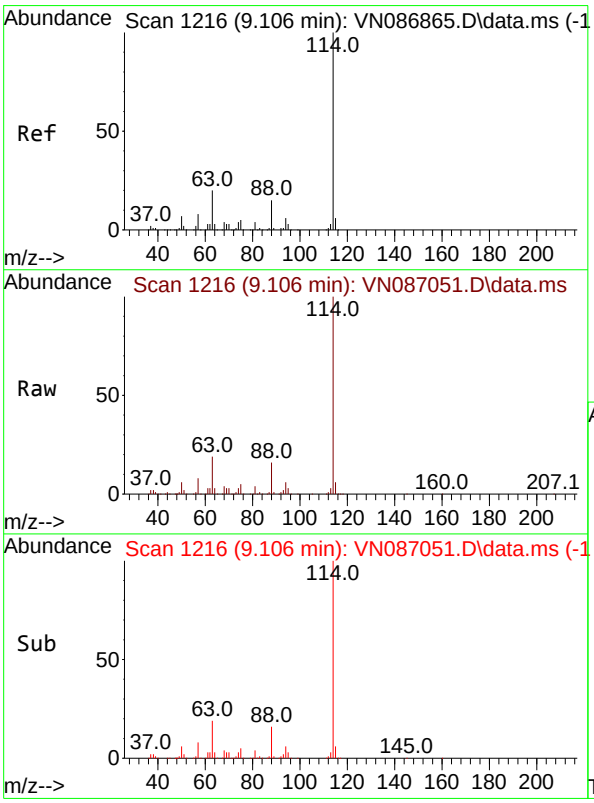
Ion	Ratio	Lower	Upper
65	100		
67	54.8	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

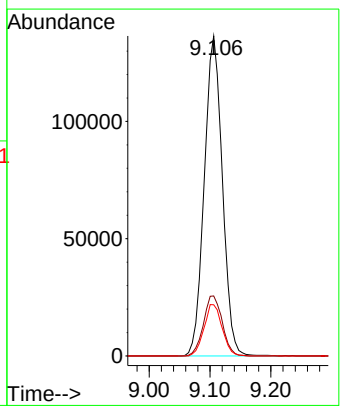
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

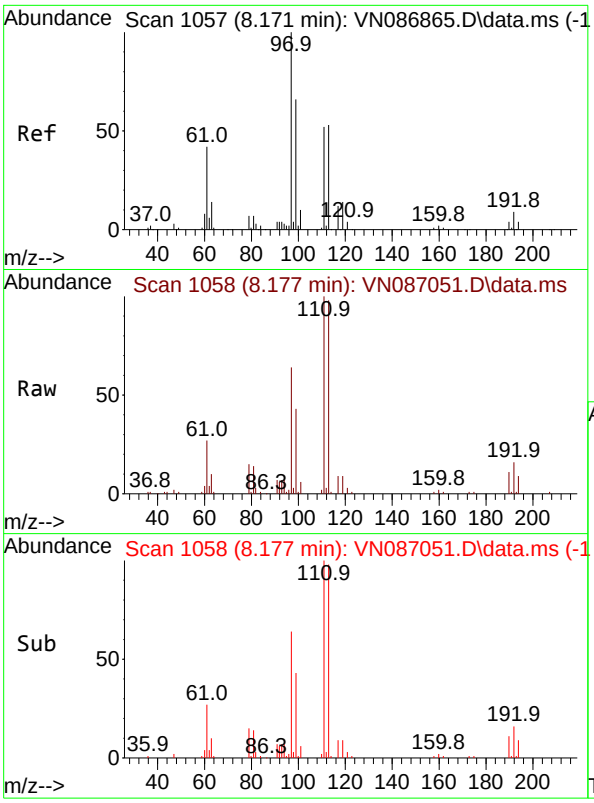


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:114 Resp: 281588

Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	39.6
88	16.0	0.0	30.2

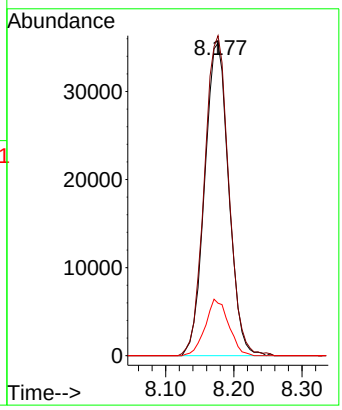




#35
Dibromofluoromethane
Concen: 52.156 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:113 Resp: 8703

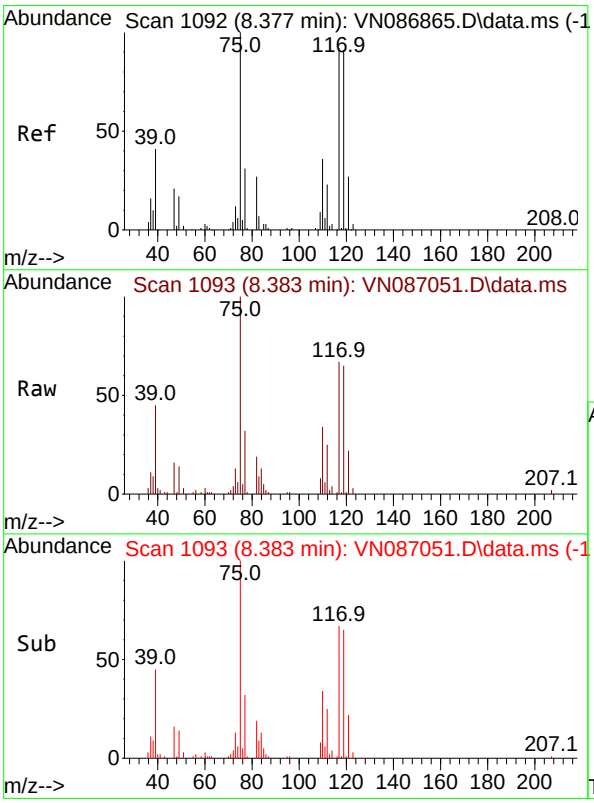
Ion	Ratio	Lower	Upper
113	100		
111	103.7	84.2	126.2
192	17.5	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

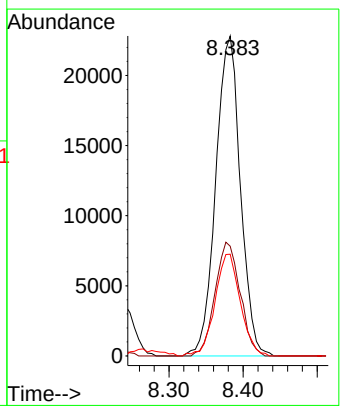
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

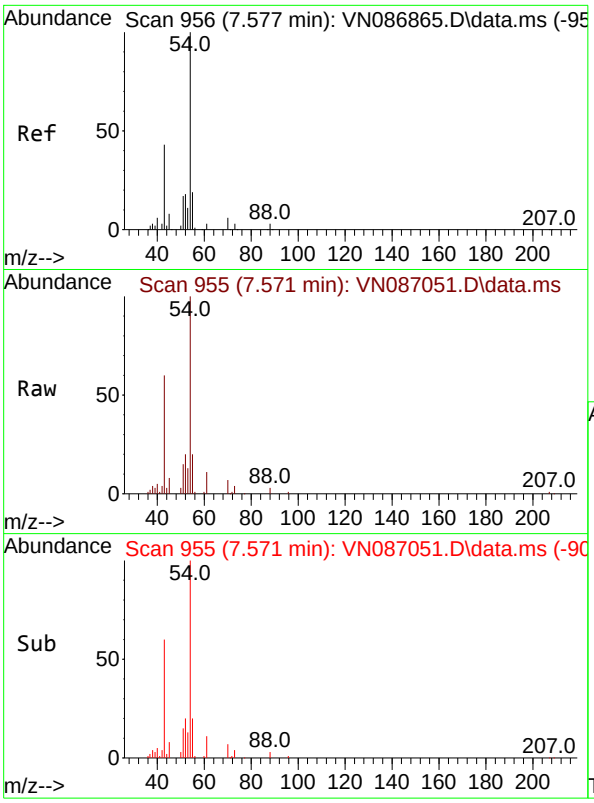


#36
1,1-Dichloropropene
Concen: 21.189 ug/l
RT: 8.383 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 75 Resp: 52690

Ion	Ratio	Lower	Upper
75	100		
110	36.2	17.6	52.9
77	32.8	25.3	37.9

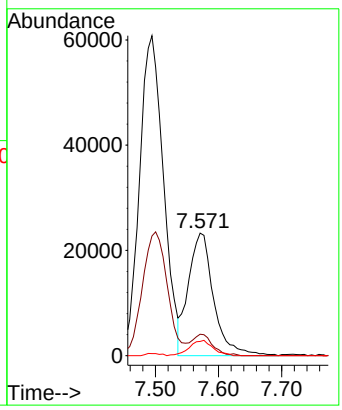




#37
Ethyl Acetate
Concen: 20.519 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 43 Resp: 6495

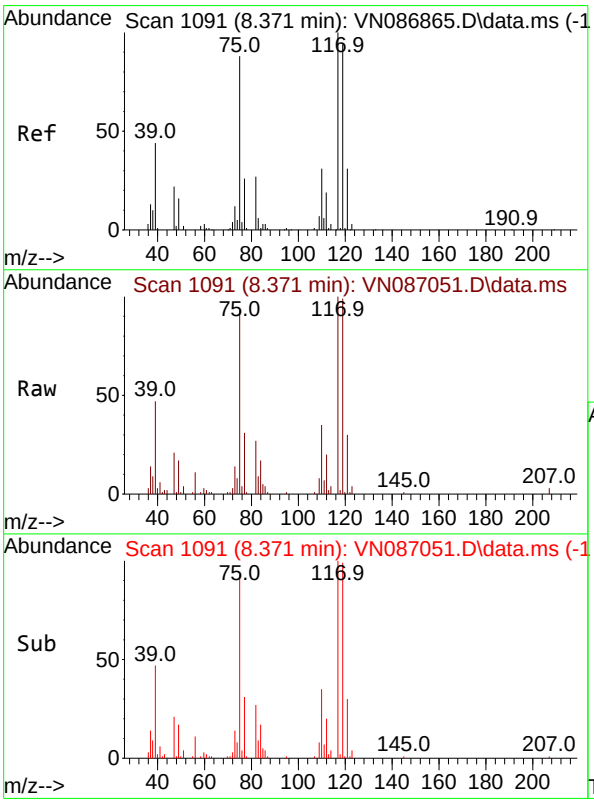
Ion	Ratio	Lower	Upper
43	100		
61	14.7	12.1	18.1
70	11.6	9.8	14.6



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

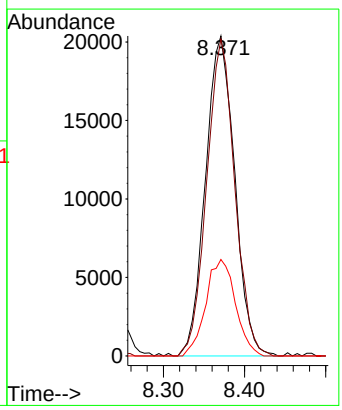
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

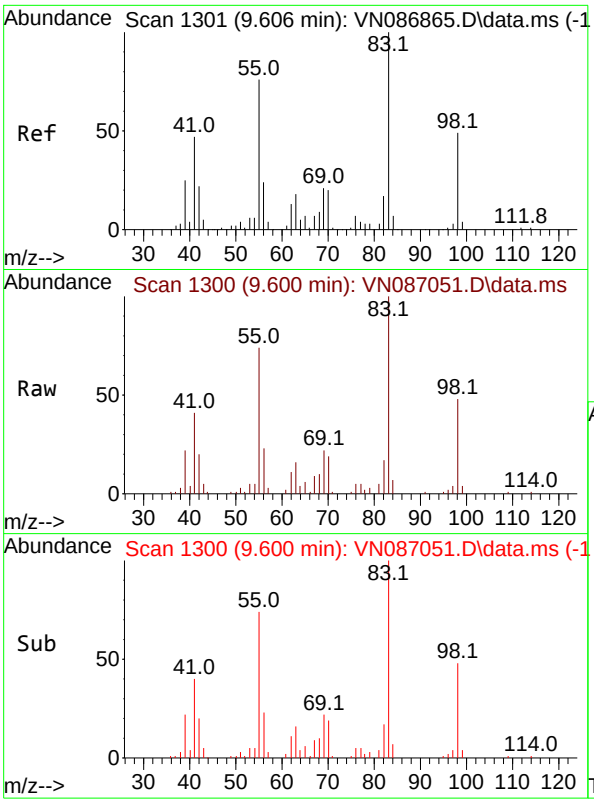


#38
Carbon Tetrachloride
Concen: 20.873 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:117 Resp: 50957

Ion	Ratio	Lower	Upper
117	100		
119	99.0	75.0	112.6
121	30.1	24.9	37.3

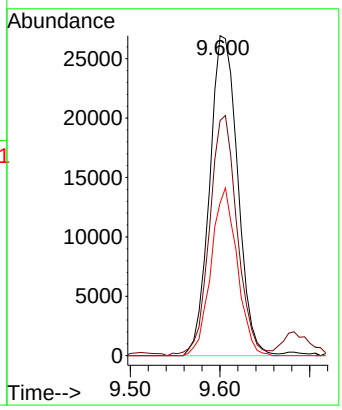




#39
Methylcyclohexane
Concen: 17.167 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 83 Resp: 5848

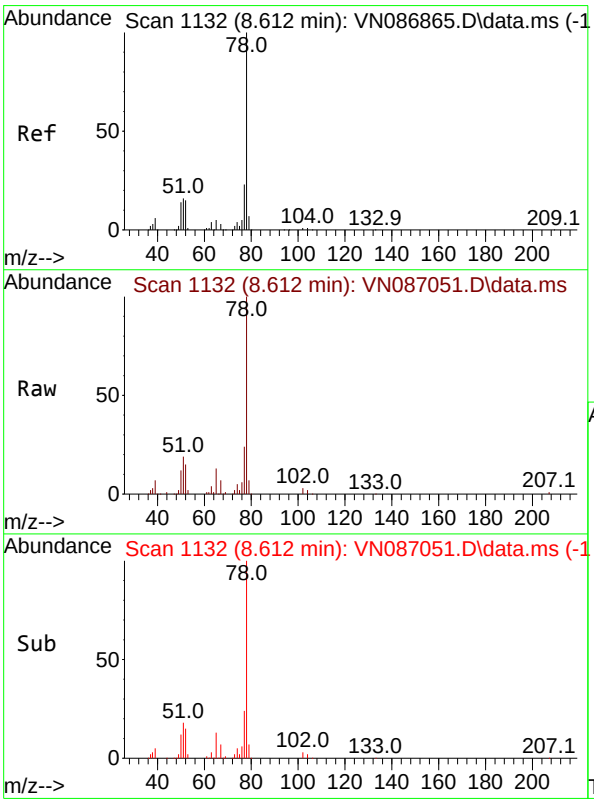
Ion	Ratio	Lower	Upper
83	100		
55	72.9	61.0	91.6
98	47.8	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

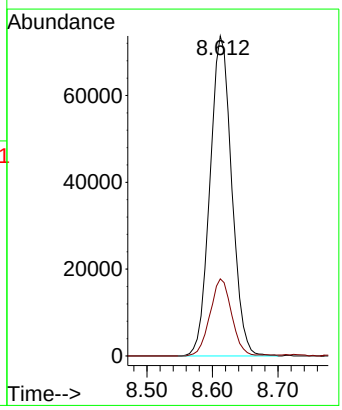
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

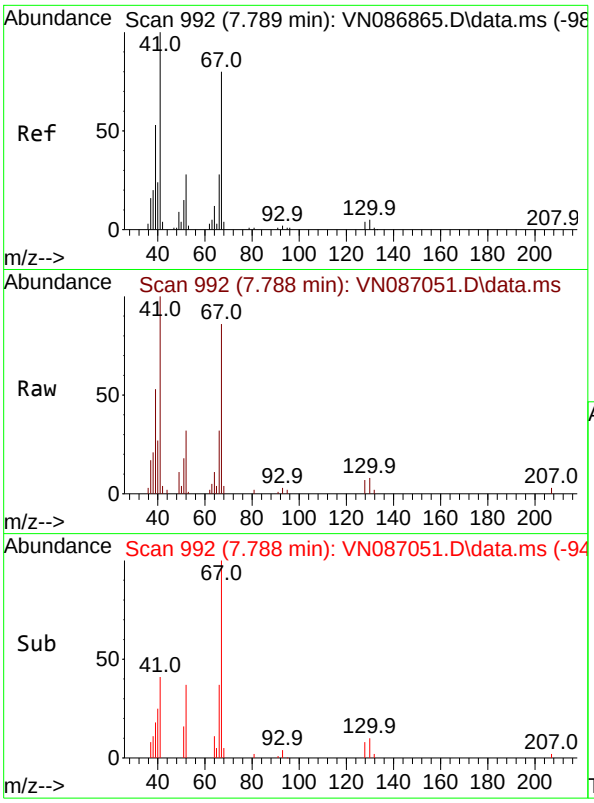


#40
Benzene
Concen: 20.869 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 78 Resp: 169691

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.7	28.1

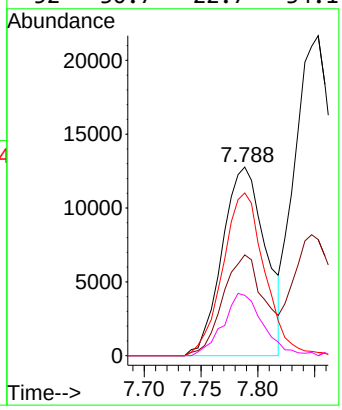




#41
Methacrylonitrile
Concen: 19.000 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 41 Resp: 3377

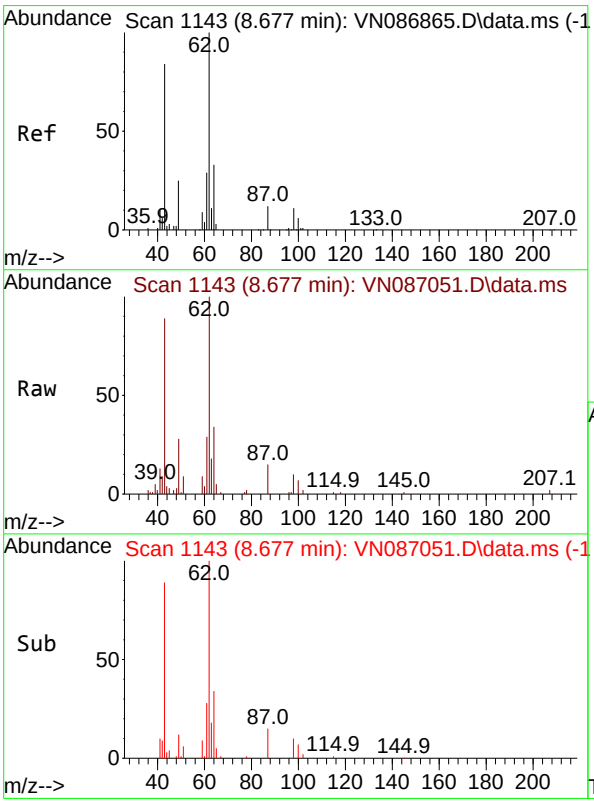
Ion	Ratio	Lower	Upper
41	100		
39	51.5	41.2	61.8
67	83.8	61.4	92.2
52	30.7	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

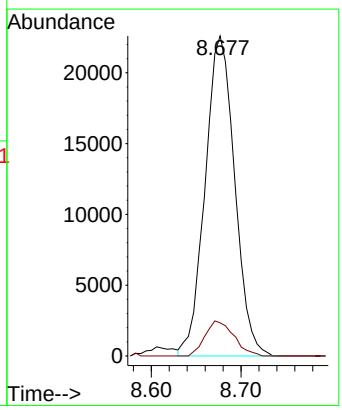
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

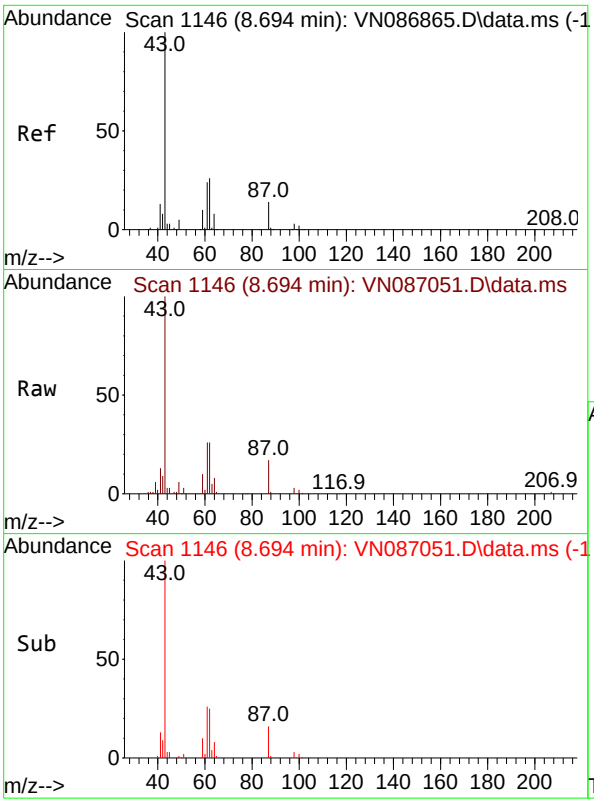


#42
1,2-Dichloroethane
Concen: 20.965 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 62 Resp: 51707

Ion	Ratio	Lower	Upper
62	100		
98	10.7	0.0	21.2





#43
Isopropyl Acetate
Concen: 18.512 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

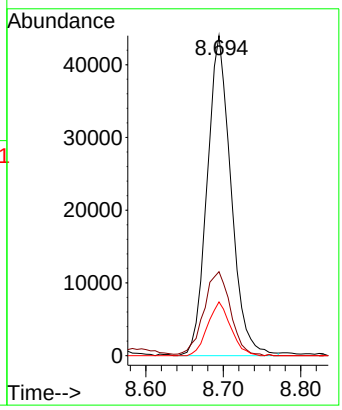
Tgt Ion: 43 Resp: 9405

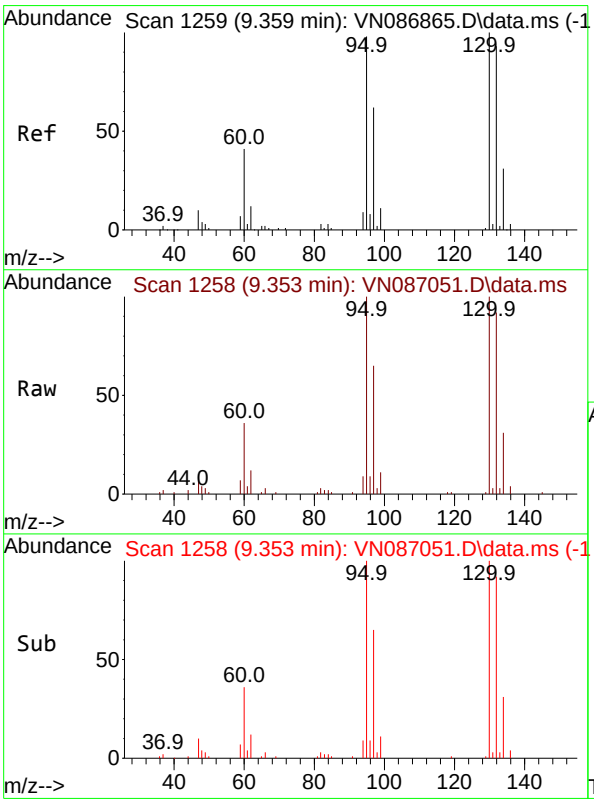
Ion	Ratio	Lower	Upper
43	100		
61	29.6	22.1	33.1
87	16.3	11.8	17.6

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

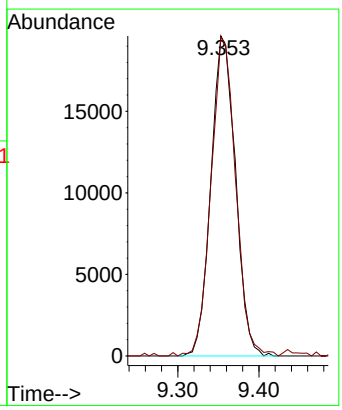


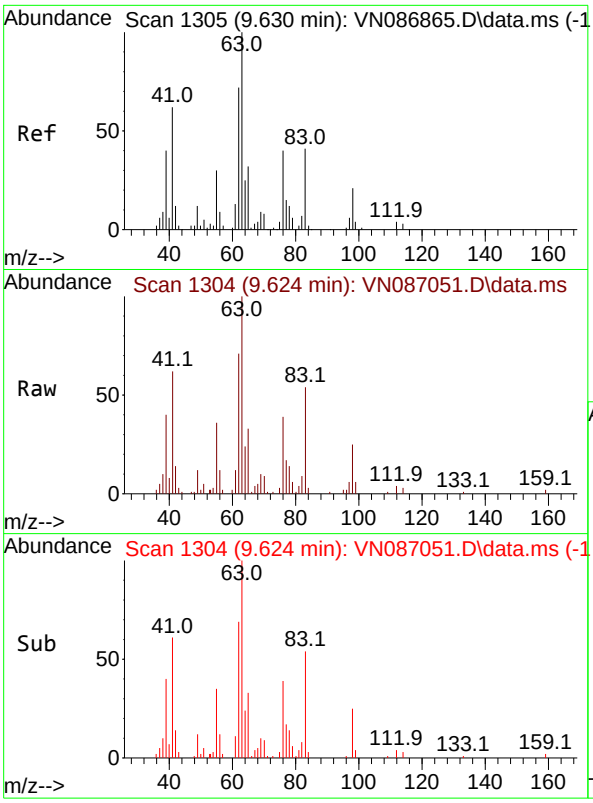


#44
Trichloroethene
Concen: 21.368 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:130 Resp: 41200

Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	196.2

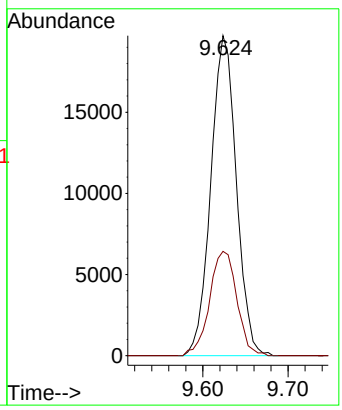




#45
1,2-Dichloropropane
Concen: 20.731 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 63 Resp: 4101

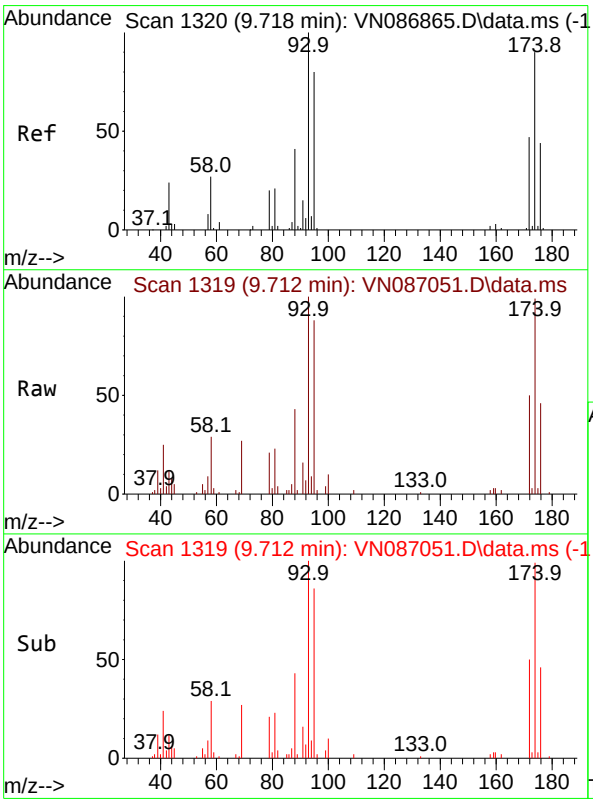
Ion	Ratio	Lower	Upper
63	100		
65	32.6	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

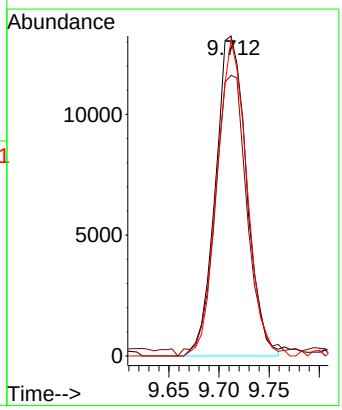
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

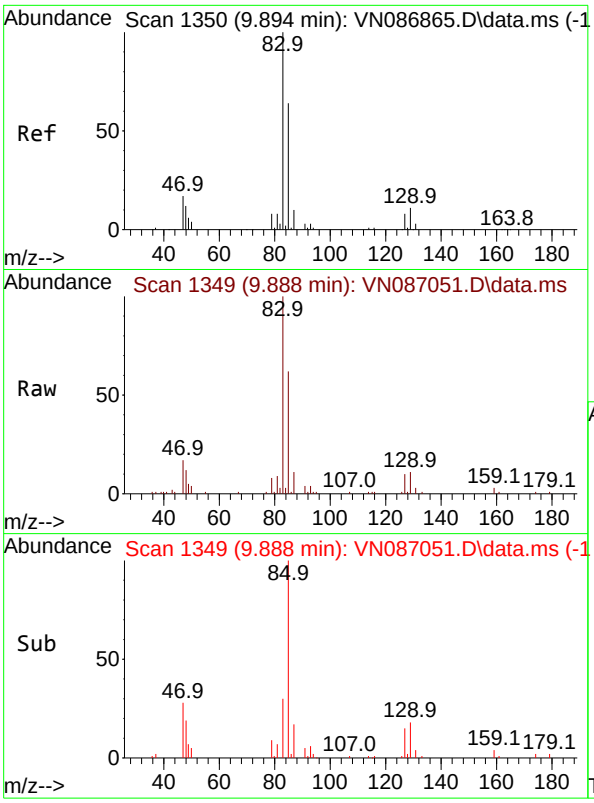


#46
Dibromomethane
Concen: 21.704 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 93 Resp: 28519

Ion	Ratio	Lower	Upper
93	100		
95	90.8	67.1	100.7
174	95.0	74.2	111.4

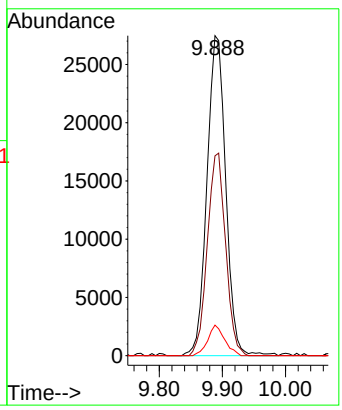




#47
Bromodichloromethane
Concen: 21.006 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 83 Resp: 5679

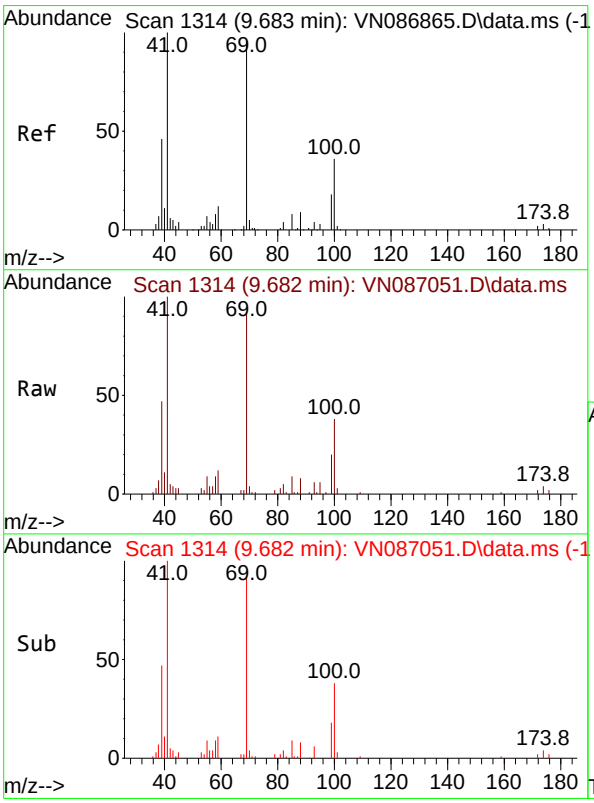
Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.9	76.3
127	9.6	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

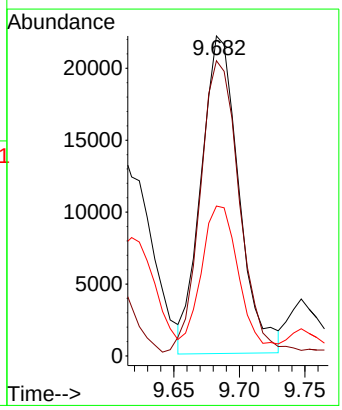
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

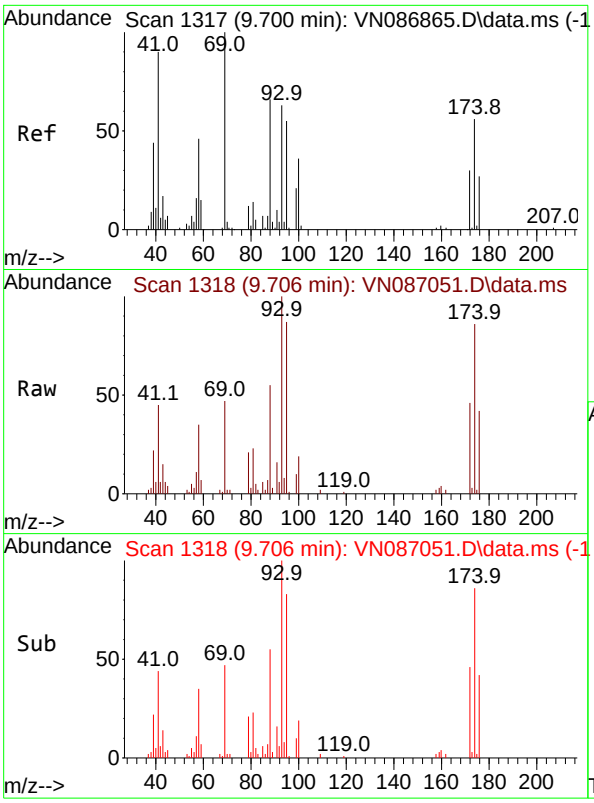


#48
Methyl methacrylate
Concen: 18.894 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 41 Resp: 44182

Ion	Ratio	Lower	Upper
41	100		
69	96.2	74.6	112.0
39	47.7	40.2	60.4





#49
1,4-Dioxane
Concen: 396.113 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

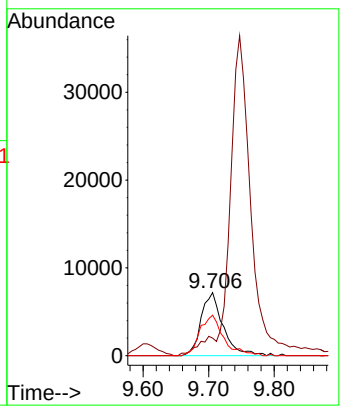
Tgt Ion: 88 Resp: 1685

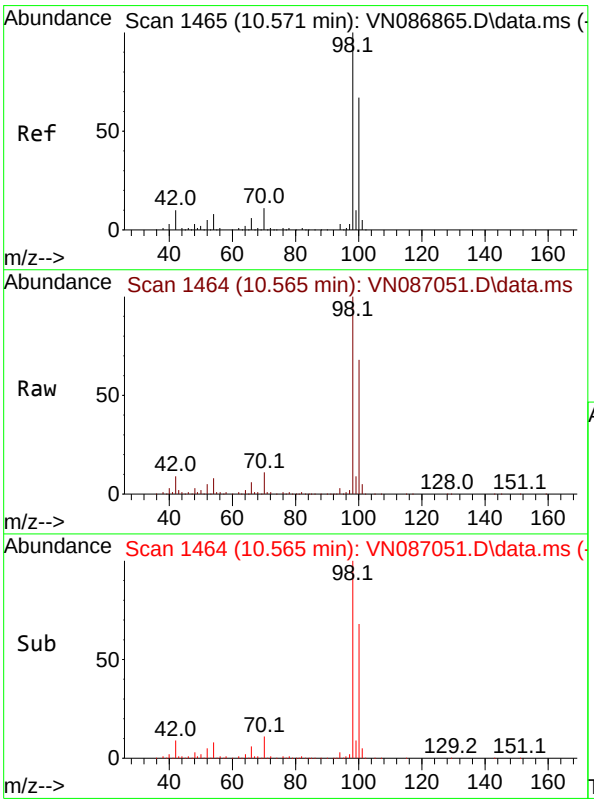
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	68.9	57.7	86.5

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

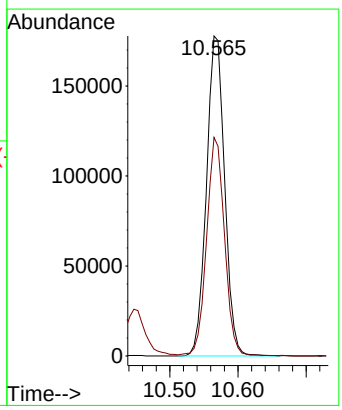


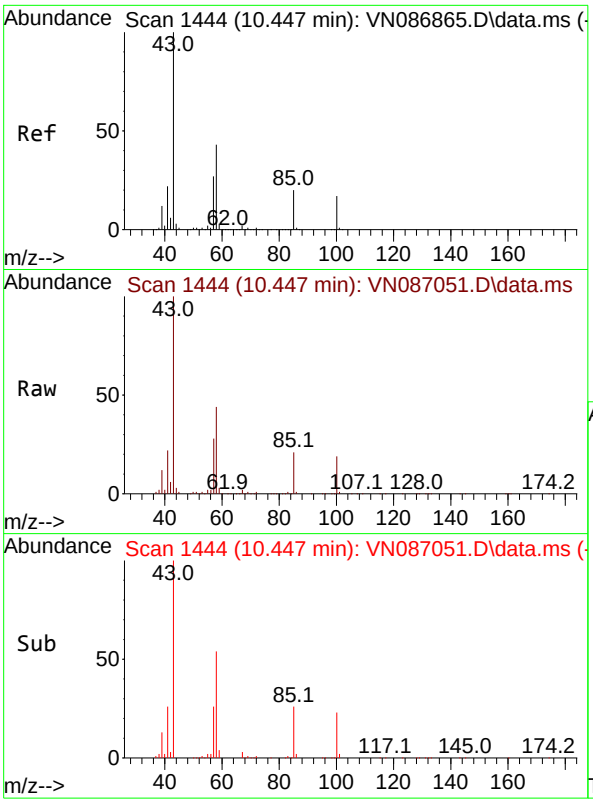


#50
Toluene-d8
Concen: 49.963 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 98 Resp: 330063

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.4	80.0

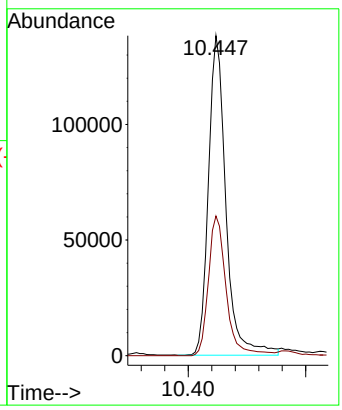




#51
4-Methyl-2-Pentanone
Concen: 93.145 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 43 Resp: 28488

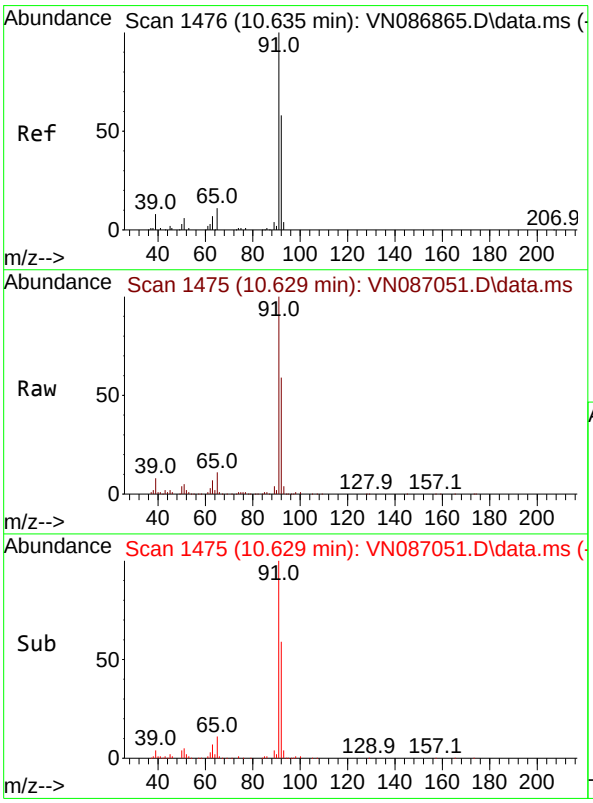
Ion	Ratio	Lower	Upper
43	100		
58	44.6	34.2	51.4



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

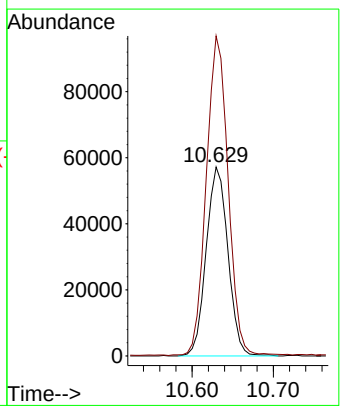
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

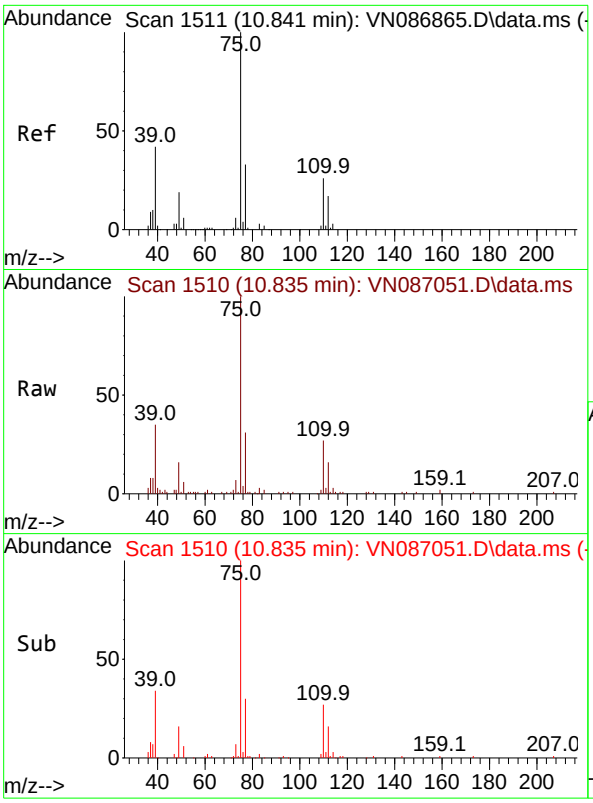


#52
Toluene
Concen: 21.448 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 92 Resp: 106583

Ion	Ratio	Lower	Upper
92	100		
91	169.4	136.5	204.7

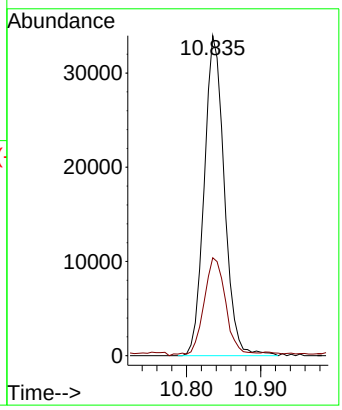




#53
t-1,3-Dichloropropene
Concen: 21.153 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 75 Resp: 6394

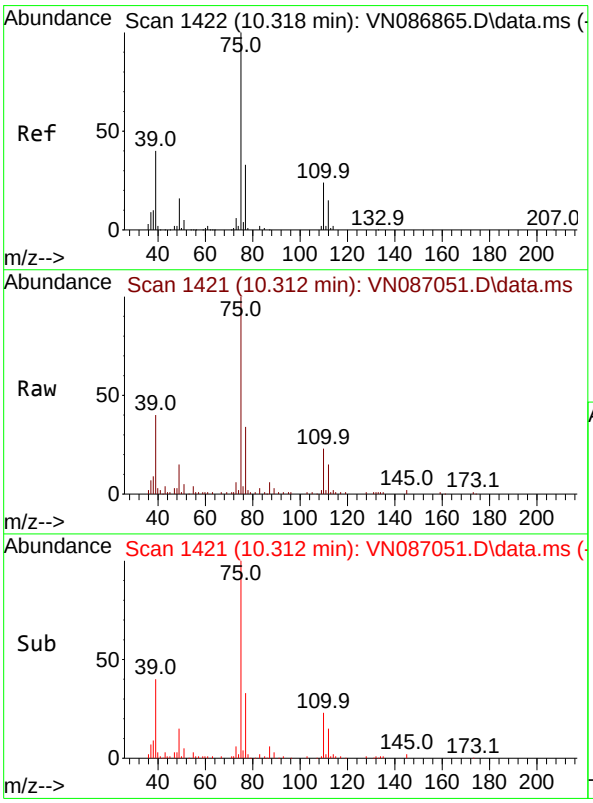
Ion	Ratio	Lower	Upper
75	100		
77	30.1	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

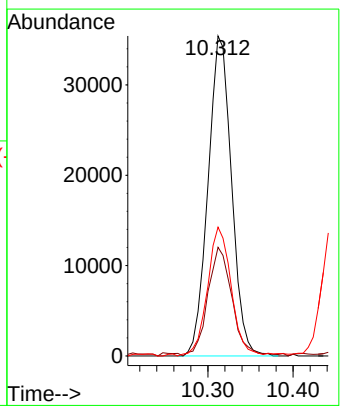
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

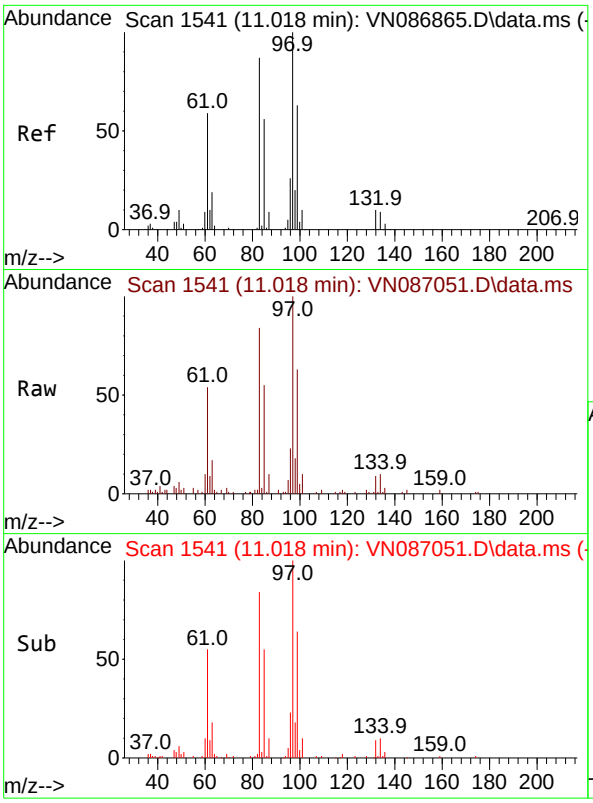


#54
cis-1,3-Dichloropropene
Concen: 20.978 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 75 Resp: 67853

Ion	Ratio	Lower	Upper
75	100		
77	33.5	26.2	39.4
39	40.3	32.3	48.5

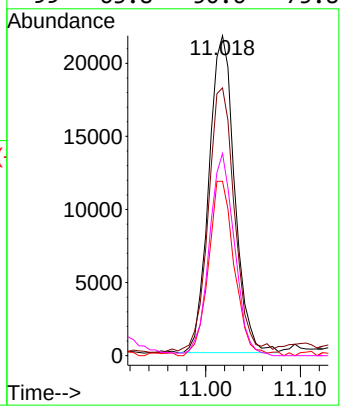




#55
1,1,2-Trichloroethane
Concen: 21.429 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 97 Resp: 4097

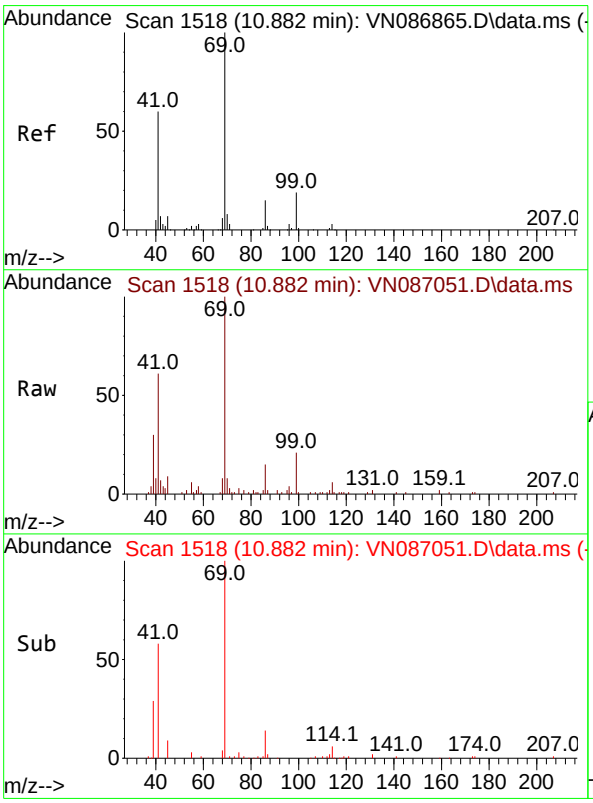
Ion	Ratio	Lower	Upper
97	100		
83	83.0	69.7	104.5
85	55.0	45.1	67.7
99	63.8	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations APPROVED

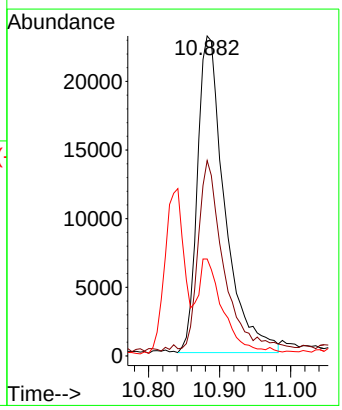
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

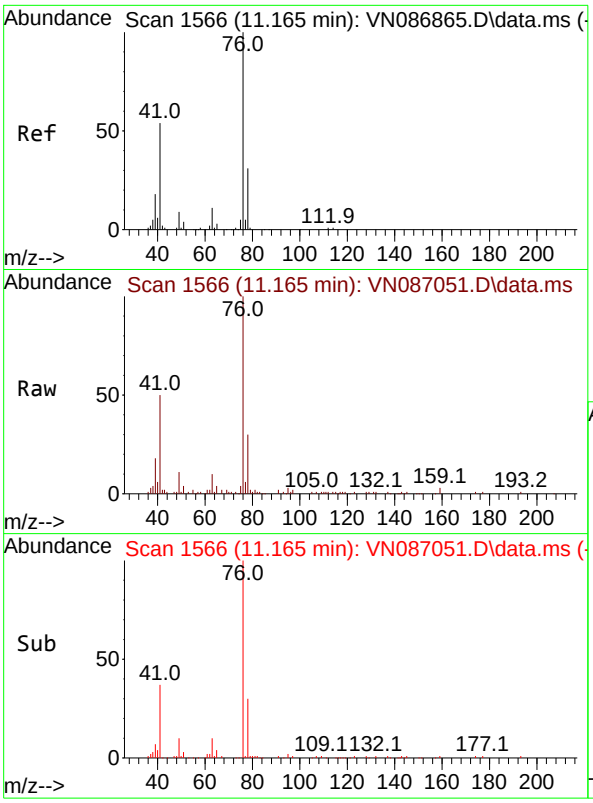


#56
Ethyl methacrylate
Concen: 20.278 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 69 Resp: 61756

Ion	Ratio	Lower	Upper
69	100		
41	54.4	47.2	70.8
39	23.8	23.0	34.6

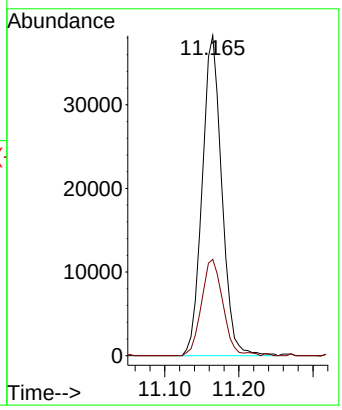




#57
1,3-Dichloropropane
Concen: 21.180 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 76 Resp: 7025

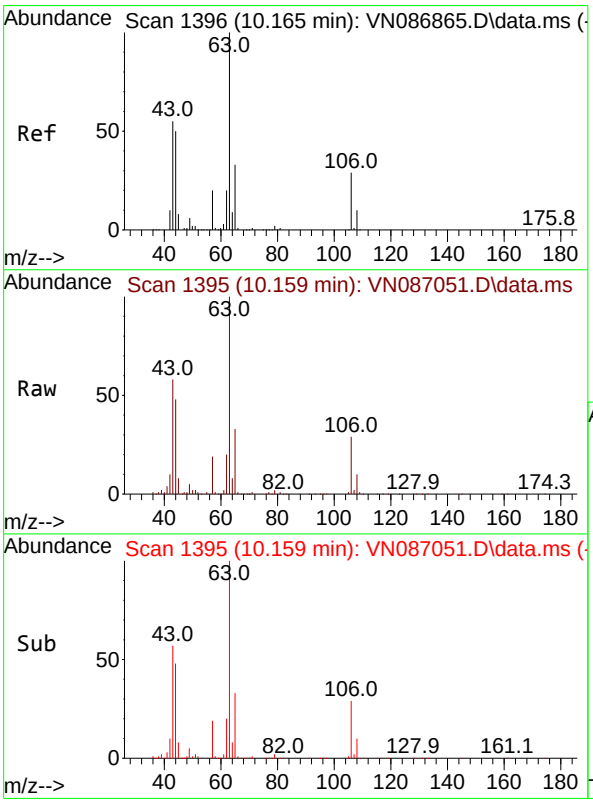
Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

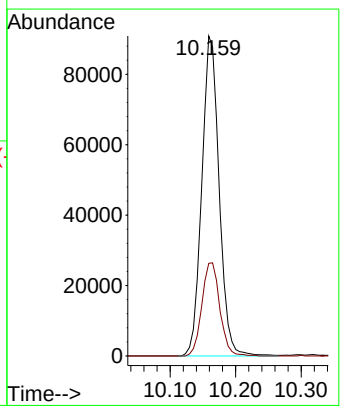
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

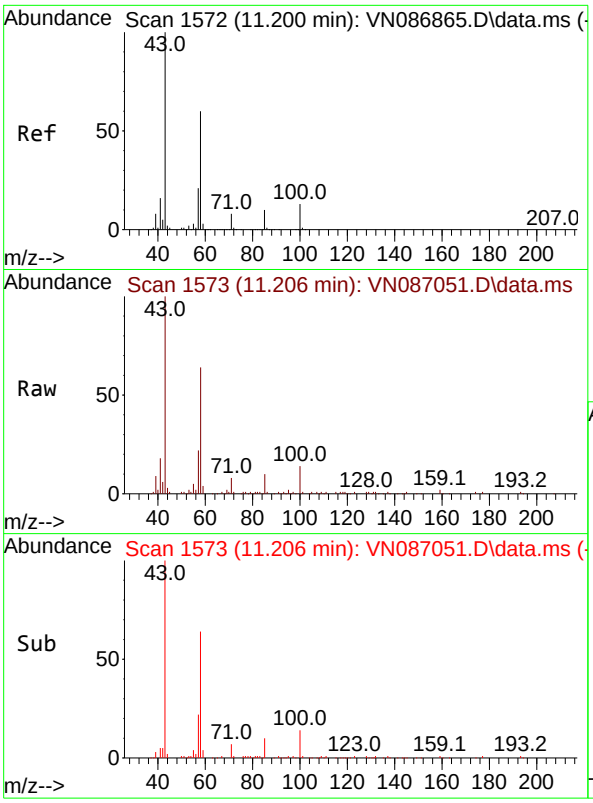


#58
2-Chloroethyl Vinyl ether
Concen: 92.171 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 63 Resp: 167427

Ion	Ratio	Lower	Upper
63	100		
106	30.0	23.0	34.6





#59
2-Hexanone
Concen: 85.432 ug/l
RT: 11.206 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

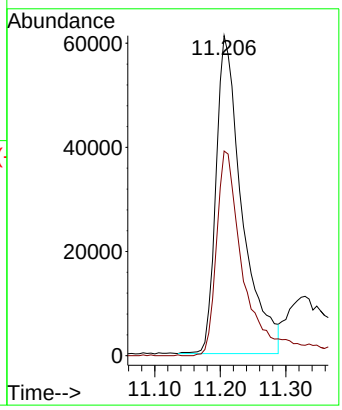
Tgt Ion: 43 Resp: 16831

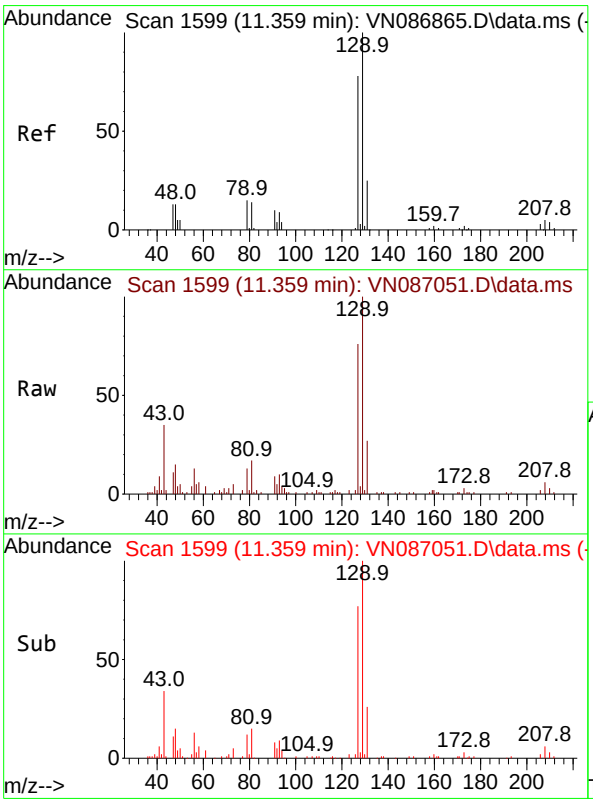
Ion	Ratio	Lower	Upper
43	100		
58	66.2	30.4	91.3

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

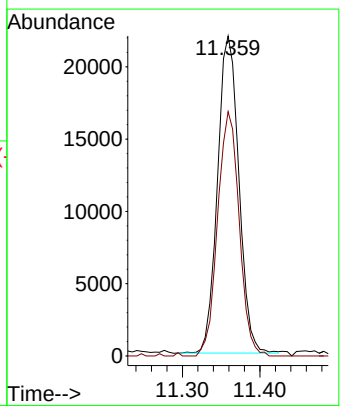


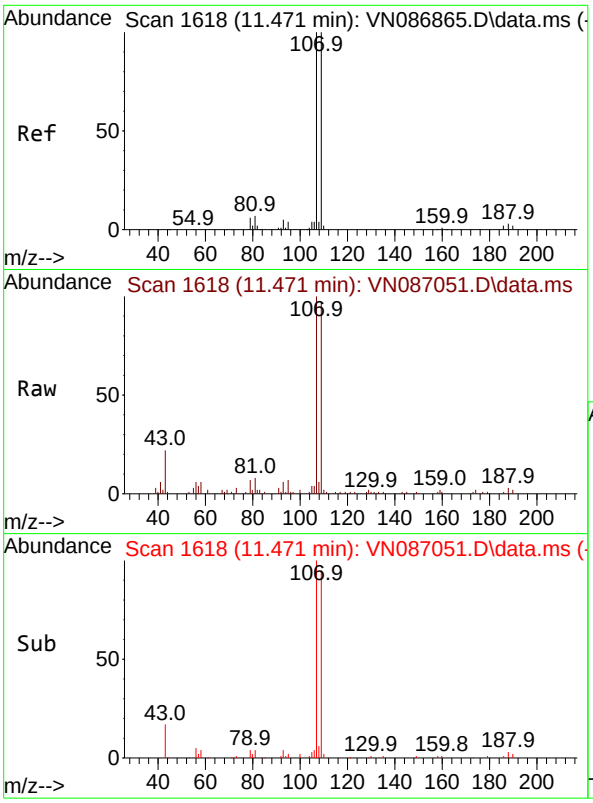


#60
Dibromochloromethane
Concen: 21.087 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:129 Resp: 42009

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.6	115.8

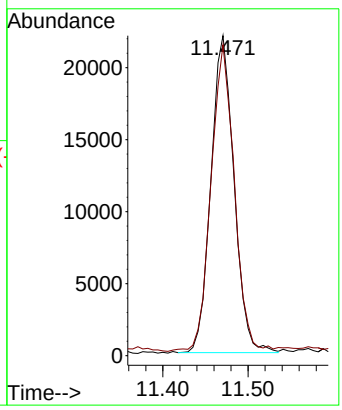




#61
1,2-Dibromoethane
Concen: 21.135 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:107 Resp: 4142

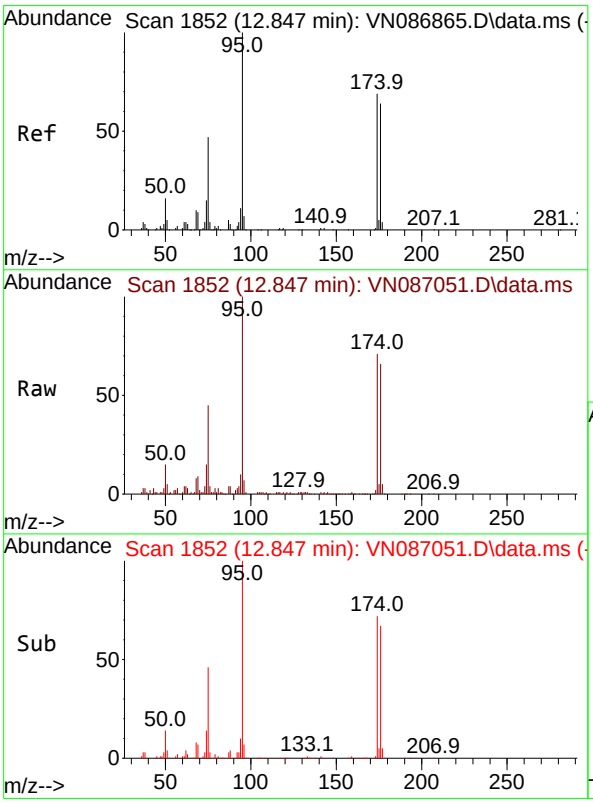
Ion	Ratio	Lower	Upper
107	100		
109	98.0	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

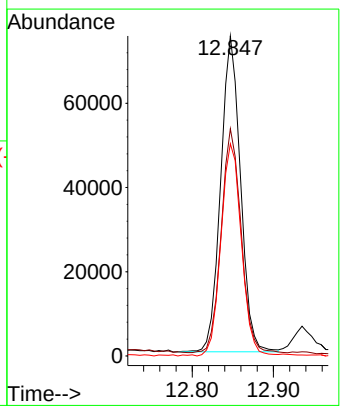
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

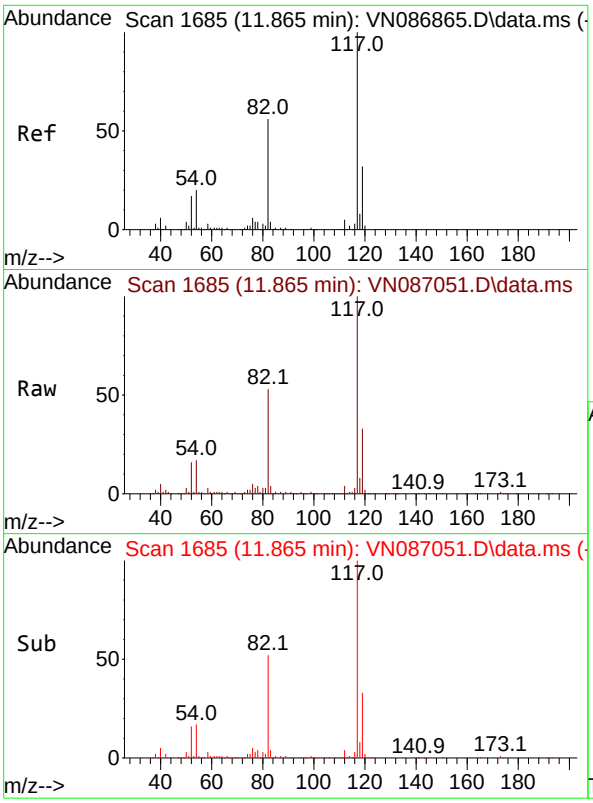


#62
4-Bromofluorobenzene
Concen: 51.754 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 95 Resp: 127024

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	141.8
176	69.4	0.0	132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

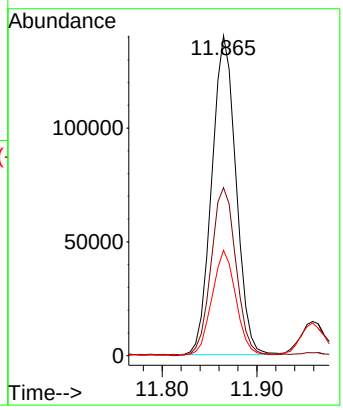
Tgt Ion:117 Resp: 24870

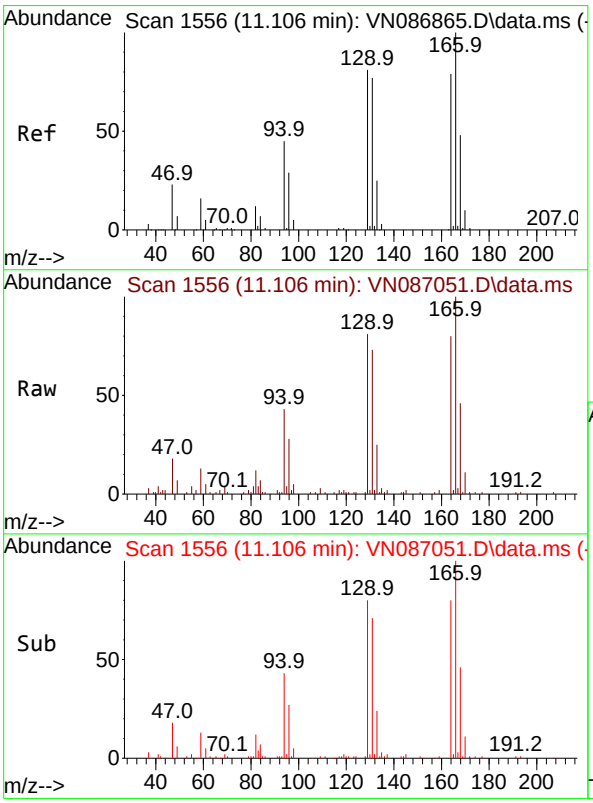
Ion	Ratio	Lower	Upper
117	100		
82	52.6	44.6	67.0
119	32.9	25.5	38.3

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

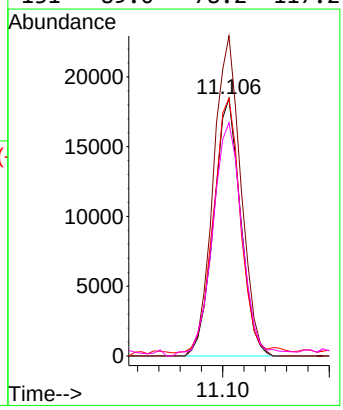


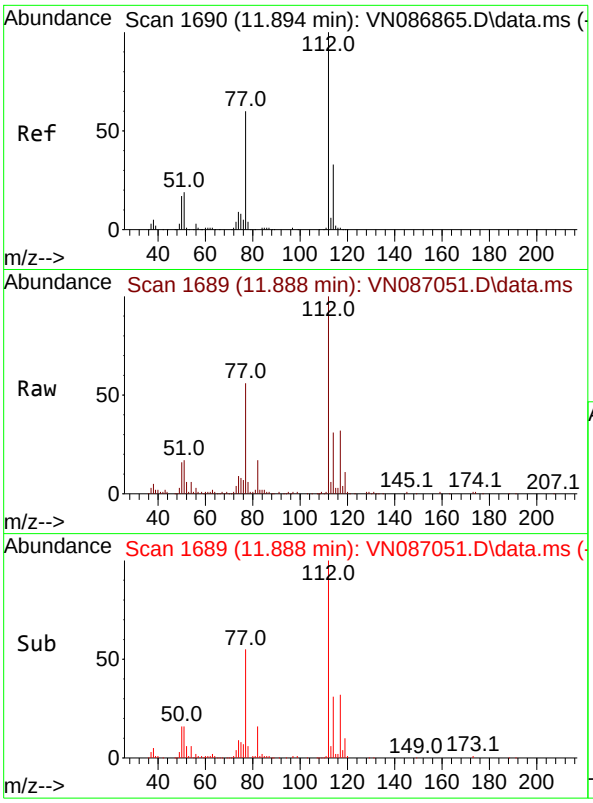


#64
Tetrachloroethene
Concen: 20.459 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:164 Resp: 32201

Ion	Ratio	Lower	Upper
164	100		
166	124.3	101.8	152.8
129	98.7	83.0	124.4
131	89.0	78.2	117.2

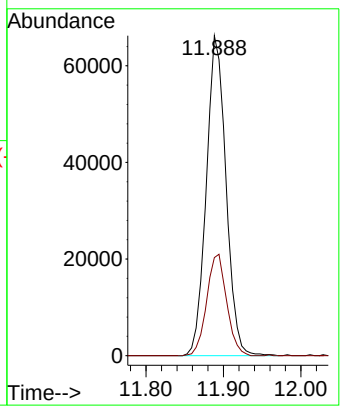




#65
Chlorobenzene
Concen: 21.333 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:112 Resp: 11701

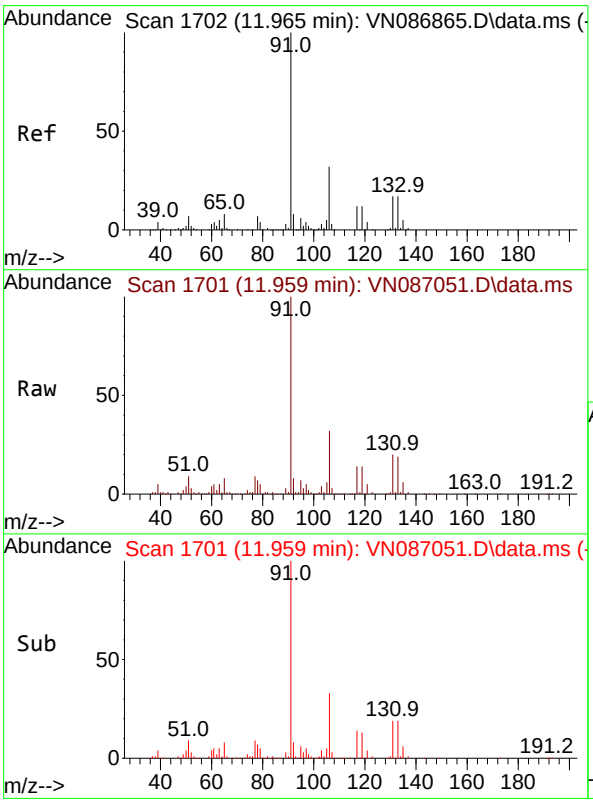
Ion	Ratio	Lower	Upper
112	100		
114	30.6	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

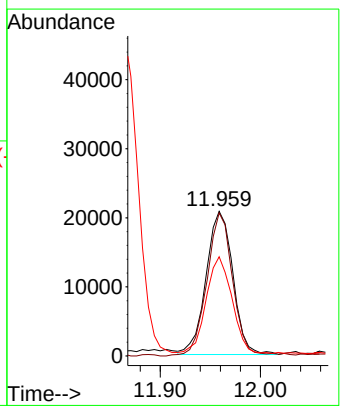
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

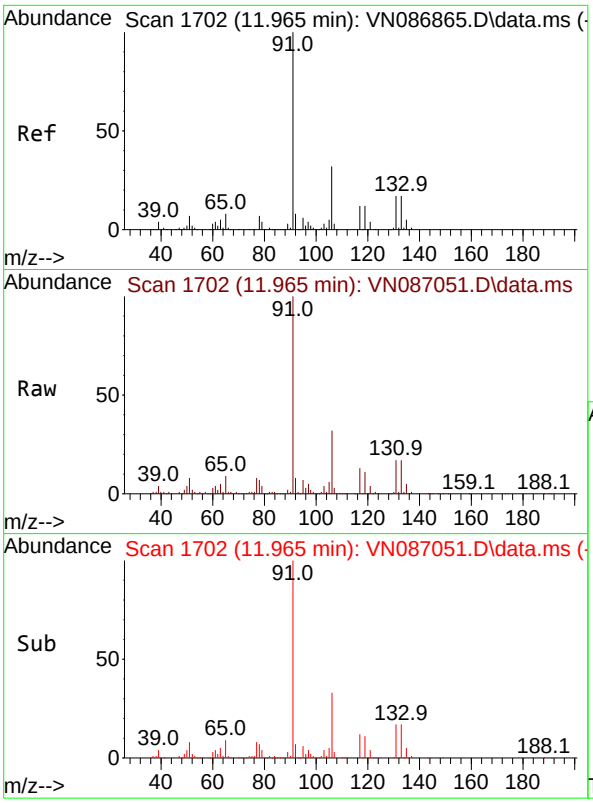


#66
1,1,1,2-Tetrachloroethane
Concen: 21.939 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:131 Resp: 38683

Ion	Ratio	Lower	Upper
131	100		
133	96.3	48.3	144.8
119	64.7	34.0	101.8

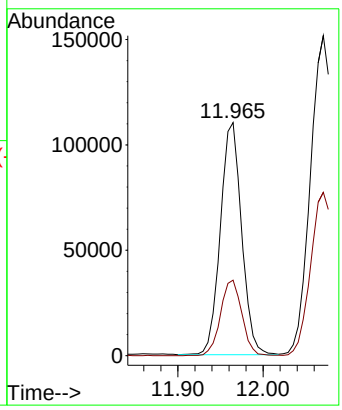




#67
Ethyl Benzene
Concen: 20.235 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 91 Resp: 19118

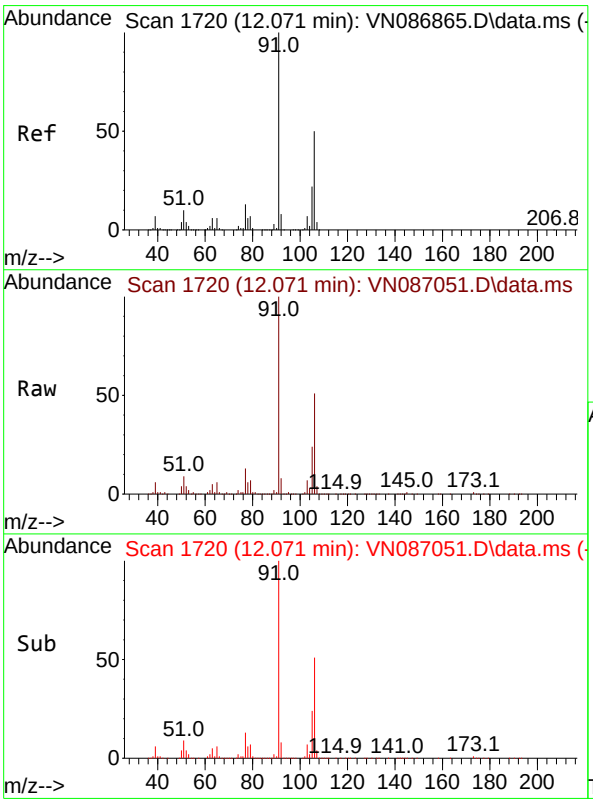
Ion	Ratio	Lower	Upper
91	100		
106	32.6	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

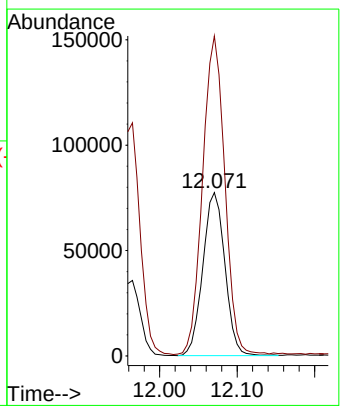
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

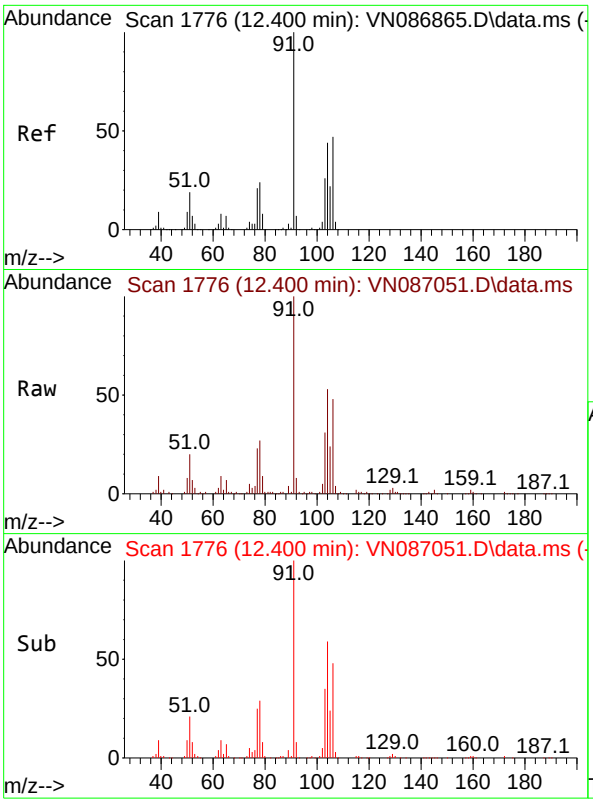


#68
m/p-Xylenes
Concen: 42.393 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:106 Resp: 153323

Ion	Ratio	Lower	Upper
106	100		
91	195.8	159.4	239.0

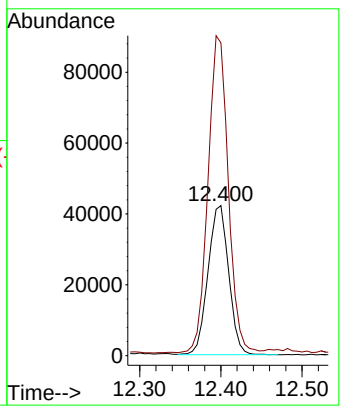




#69
o-Xylene
Concen: 21.564 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:106 Resp: 7469

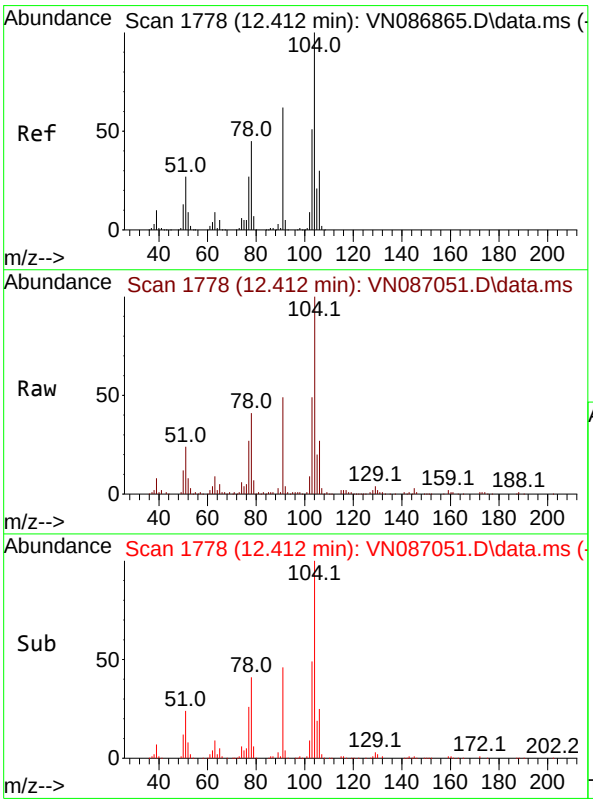
Ion	Ratio	Lower	Upper
106	100		
91	207.7	106.1	318.1



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

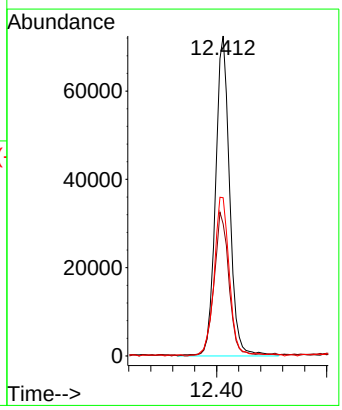
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

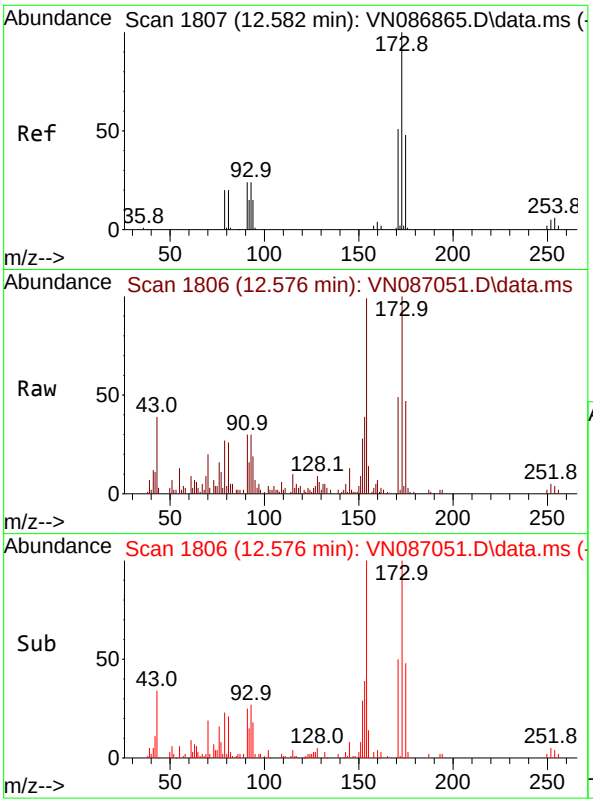


#70
Styrene
Concen: 21.862 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:104 Resp: 129584

Ion	Ratio	Lower	Upper
104	100		
78	46.1	38.5	57.7
103	53.0	43.1	64.7

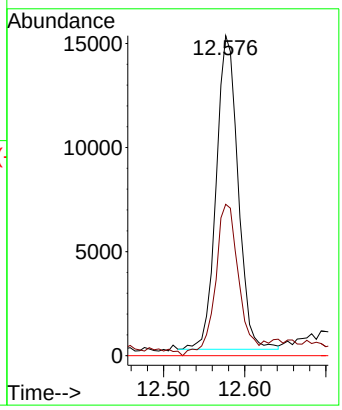




#71
Bromoform
Concen: 21.592 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:173 Resp: 2820

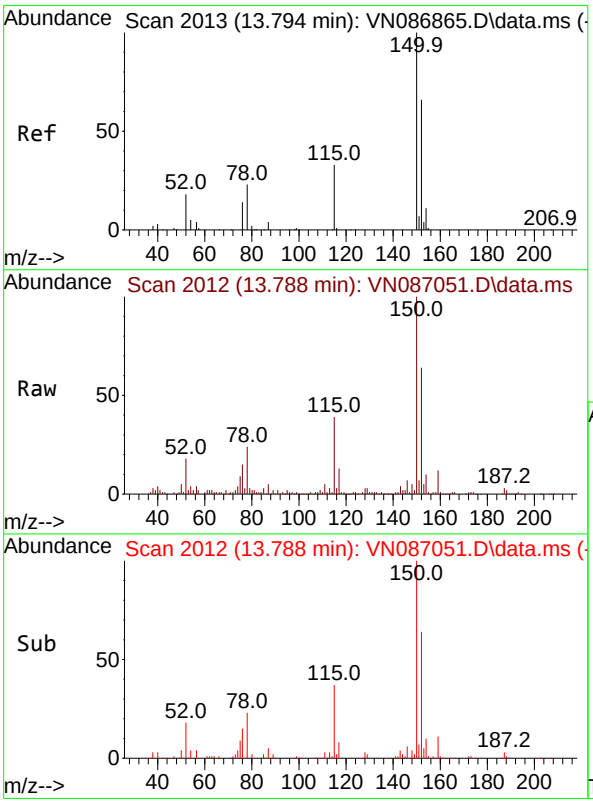
Ion	Ratio	Lower	Upper
173	100		
175	51.6	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

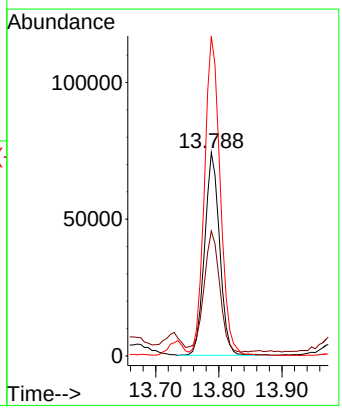
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

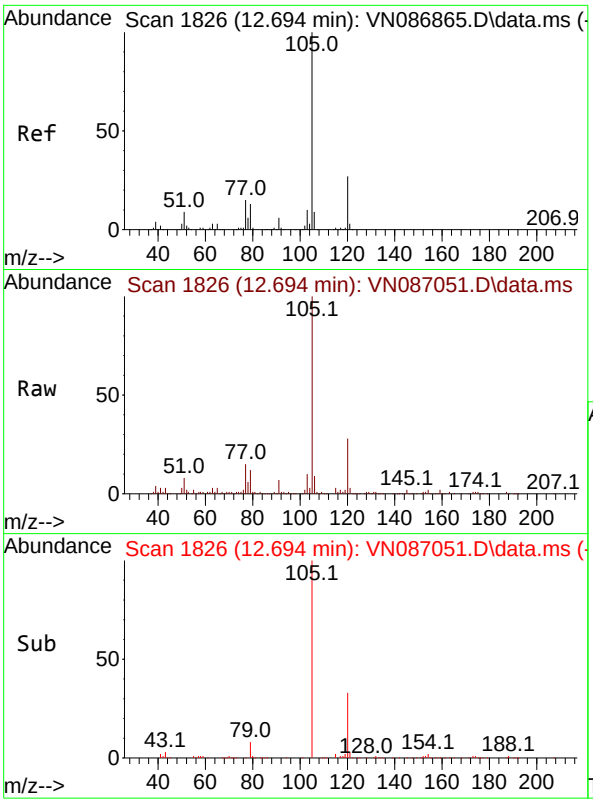


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:152 Resp: 122529

Ion	Ratio	Lower	Upper
152	100		
115	62.2	30.1	90.5
150	165.2	0.0	345.0

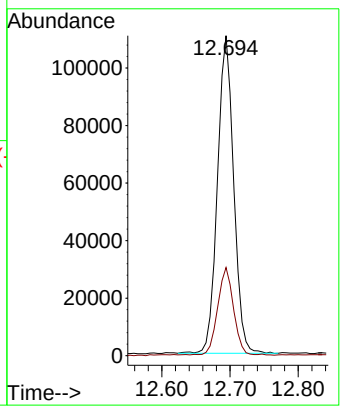




#73
Isopropylbenzene
Concen: 20.505 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:105 Resp: 18303

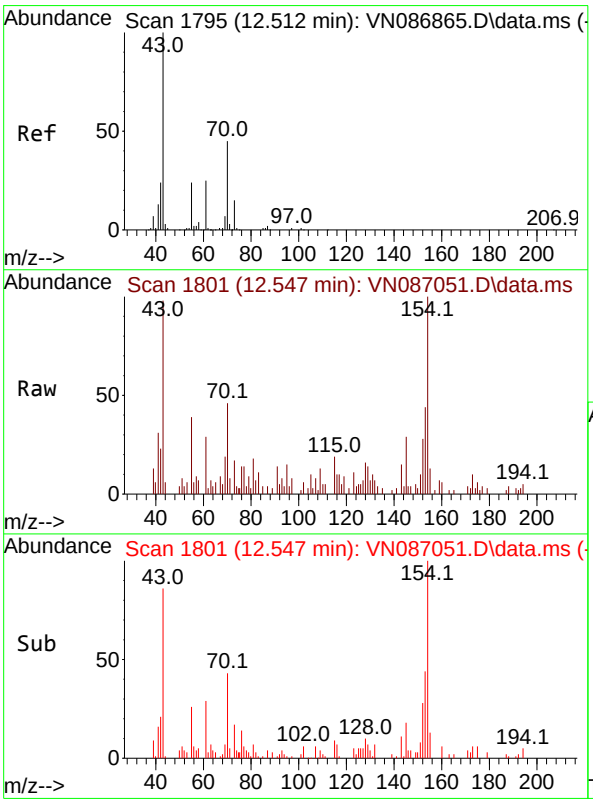
Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations APPROVED

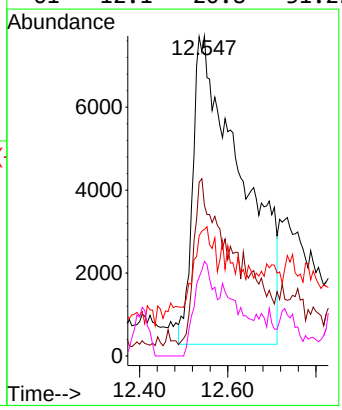
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

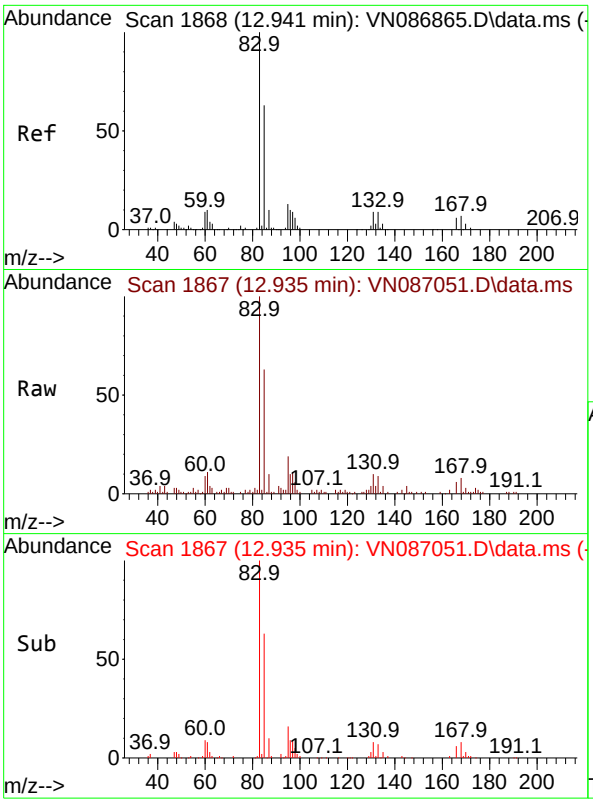


#74
N-amyl acetate
Concen: 18.378 ug/l m
RT: 12.547 min Scan# 1801
Delta R.T. 0.035 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 43 Resp: 57325

Ion	Ratio	Lower	Upper
43	100		
70	27.3	37.6	56.4#
55	10.2	19.0	28.6#
61	12.1	20.8	31.2#





#75
1,1,2,2-Tetrachloroethane
Concen: 21.484 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

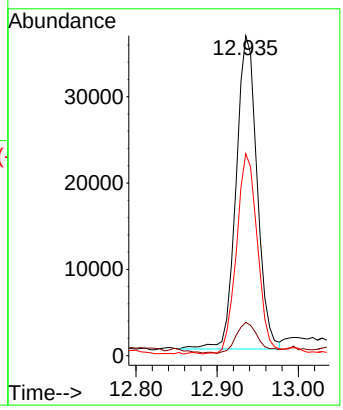
Tgt Ion: 83 Resp: 6497

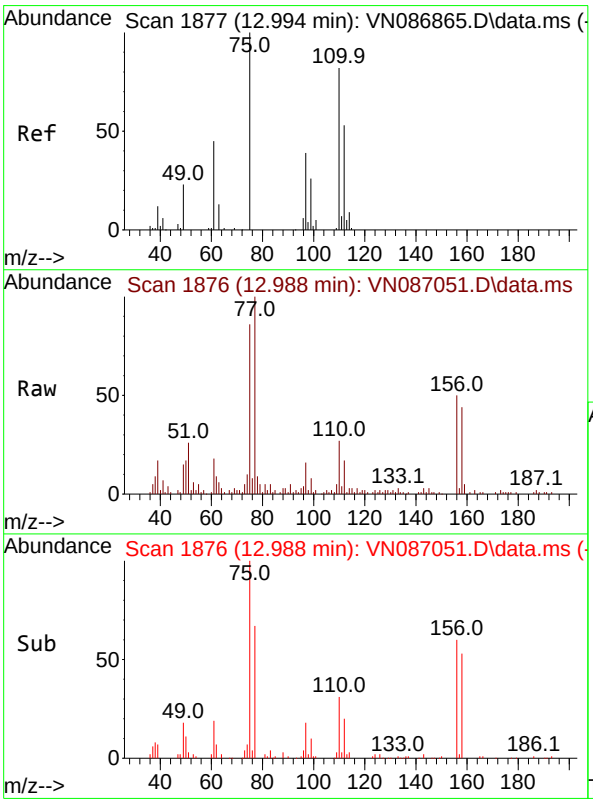
Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.9	14.7
85	64.2	32.0	96.0

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

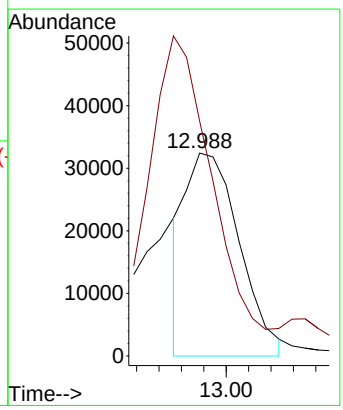


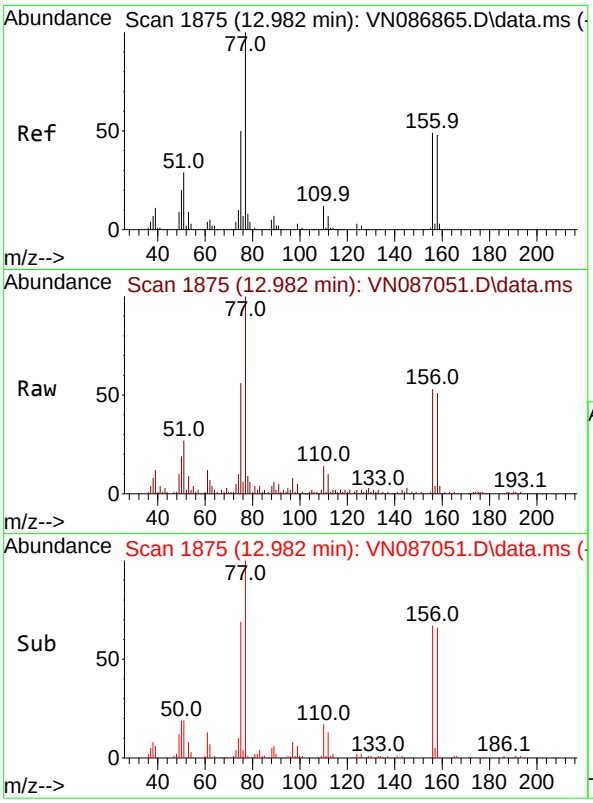


#76
1,2,3-Trichloropropane
Concen: 18.665 ug/l m
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 75 Resp: 54364

Ion	Ratio	Lower	Upper
75	100		
77	187.1	79.3	237.9

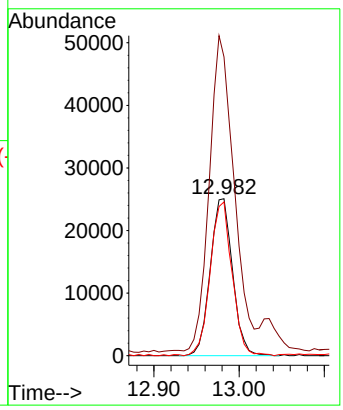




#77
Bromobenzene
Concen: 22.254 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:156 Resp: 4555

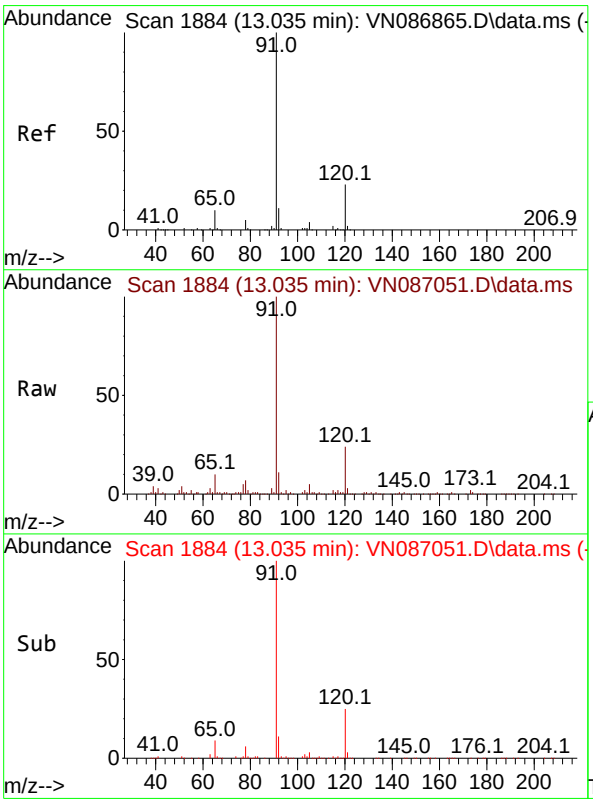
Ion	Ratio	Lower	Upper
156	100		
77	223.2	117.7	353.1
158	96.6	48.1	144.4



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

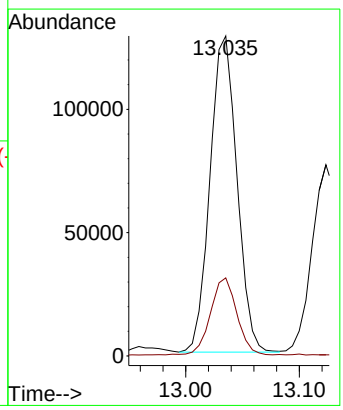
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

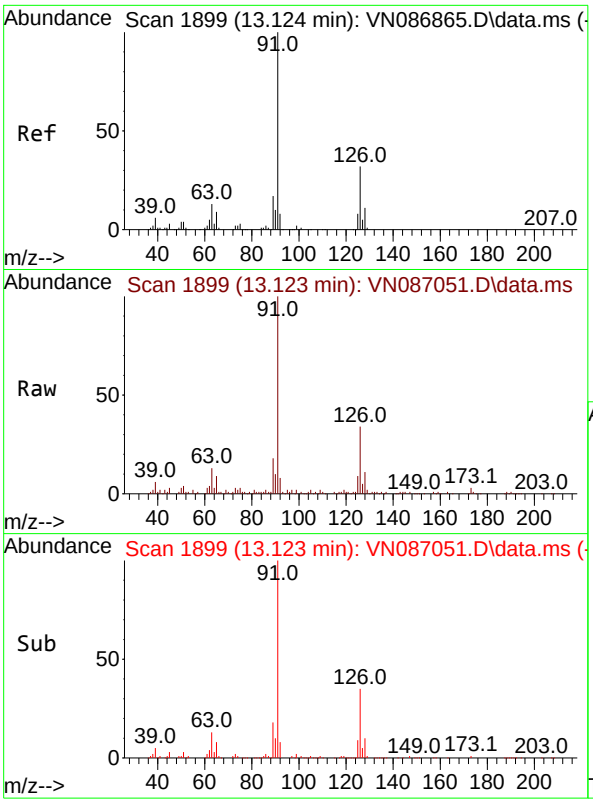


#78
n-propylbenzene
Concen: 19.492 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 91 Resp: 211448

Ion	Ratio	Lower	Upper
91	100		
120	24.7	11.4	34.2

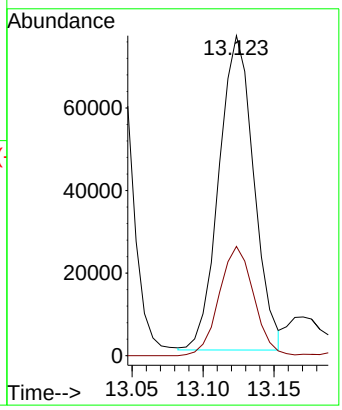




#79
2-Chlorotoluene
Concen: 19.991 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 91 Resp: 13005

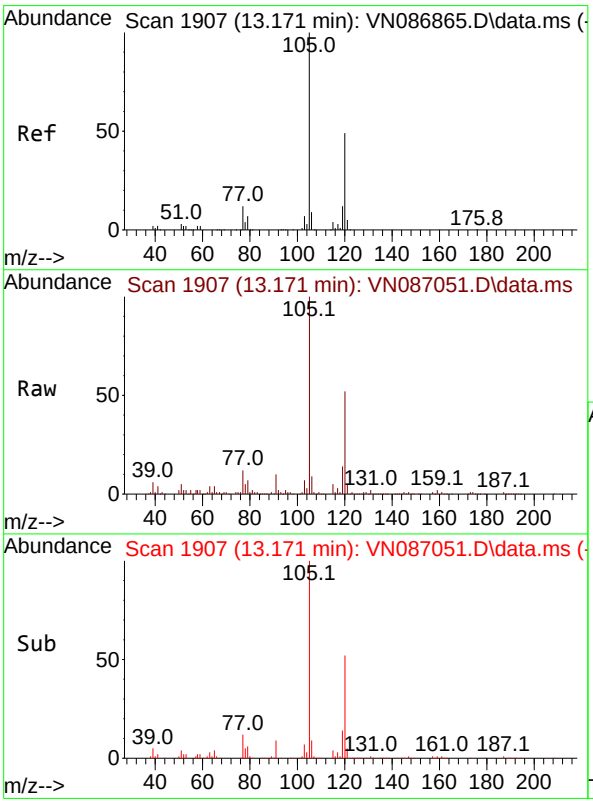
Ion	Ratio	Lower	Upper
91	100		
126	34.5	16.2	48.5



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

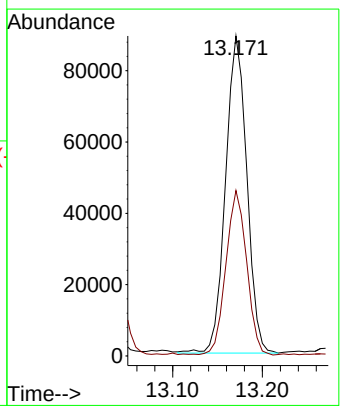
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

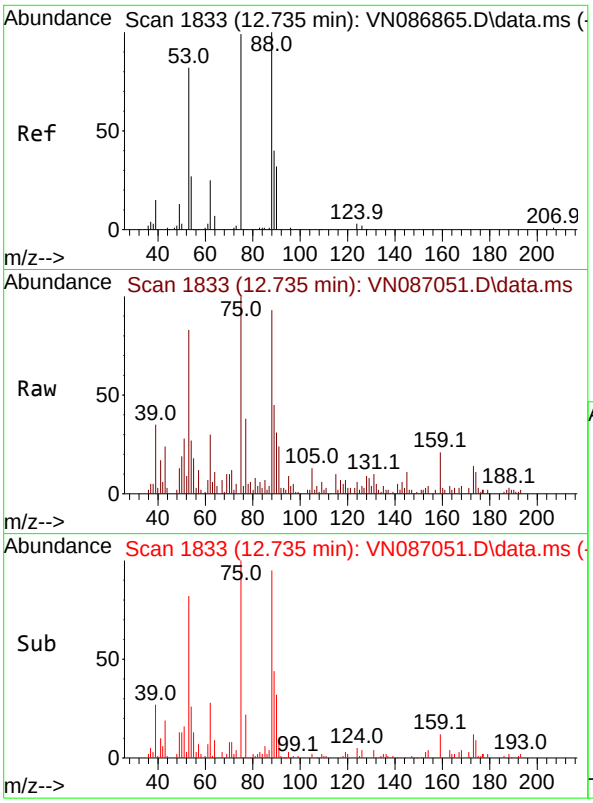


#80
1,3,5-Trimethylbenzene
Concen: 19.853 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:105 Resp: 146312

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.9	74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 18.159 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

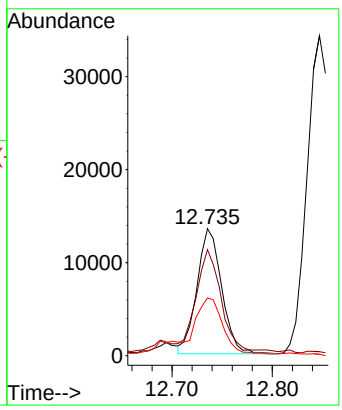
Tgt Ion: 75 Resp: 2297

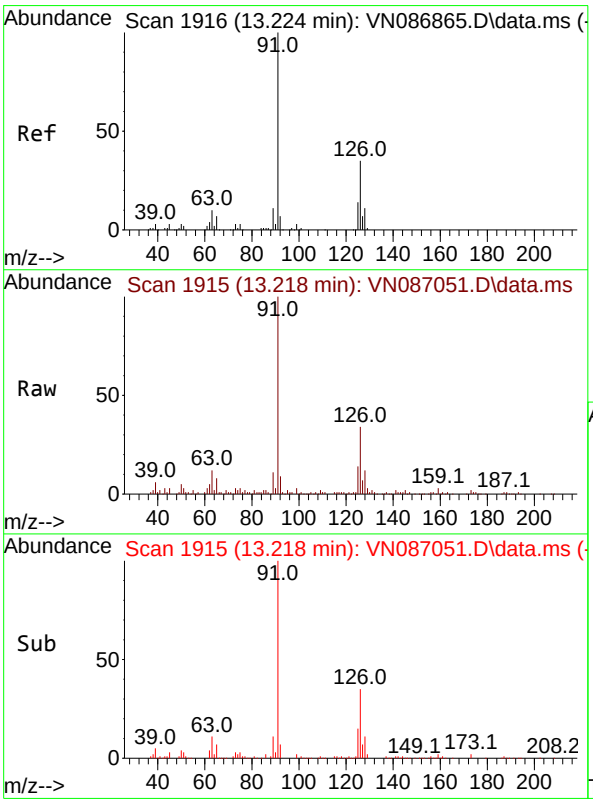
Ion	Ratio	Lower	Upper
75	100		
53	84.5	66.6	99.8
89	61.8	36.7	55.1

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

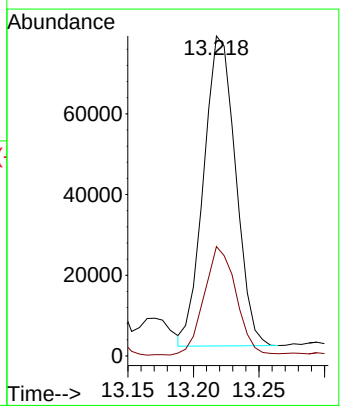


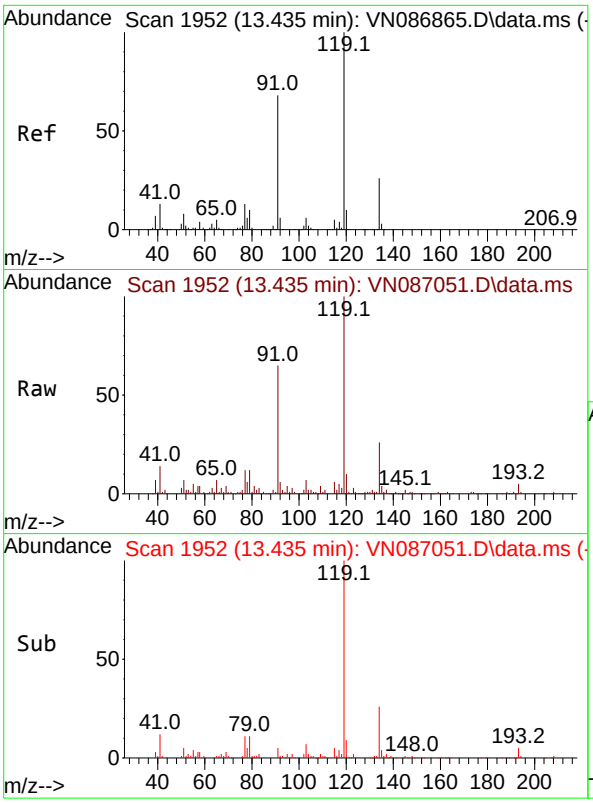


#82
4-Chlorotoluene
Concen: 19.795 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 91 Resp: 130303

Ion	Ratio	Lower	Upper
91	100		
126	35.6	16.7	50.1

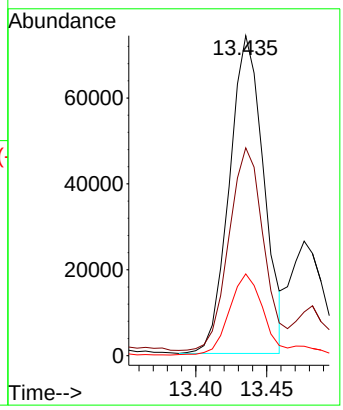




#83
tert-Butylbenzene
Concen: 18.462 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:119 Resp: 12454

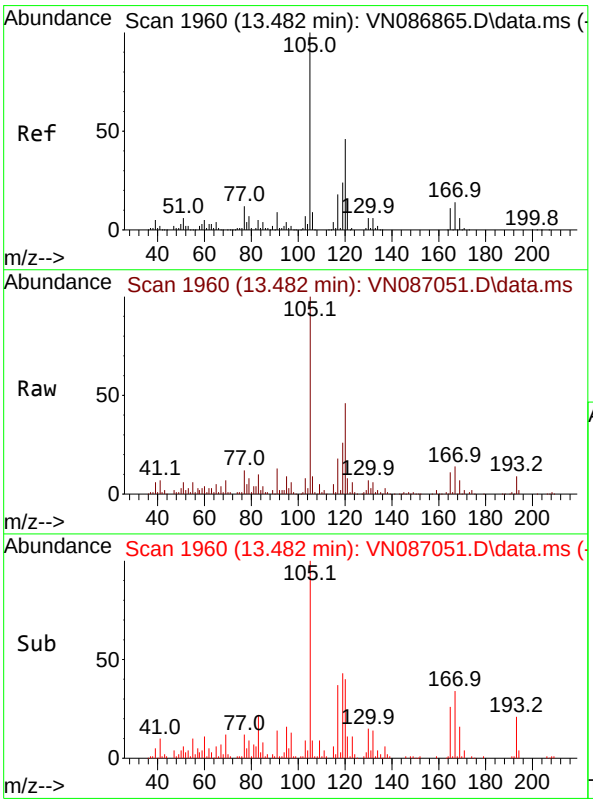
Ion	Ratio	Lower	Upper
119	100		
91	64.8	32.1	96.5
134	25.0	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

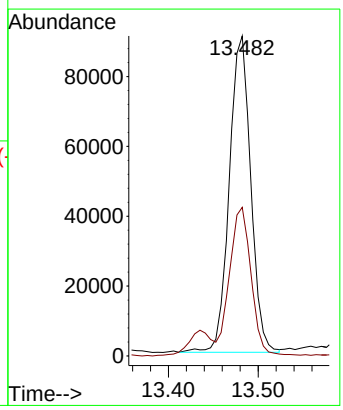
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

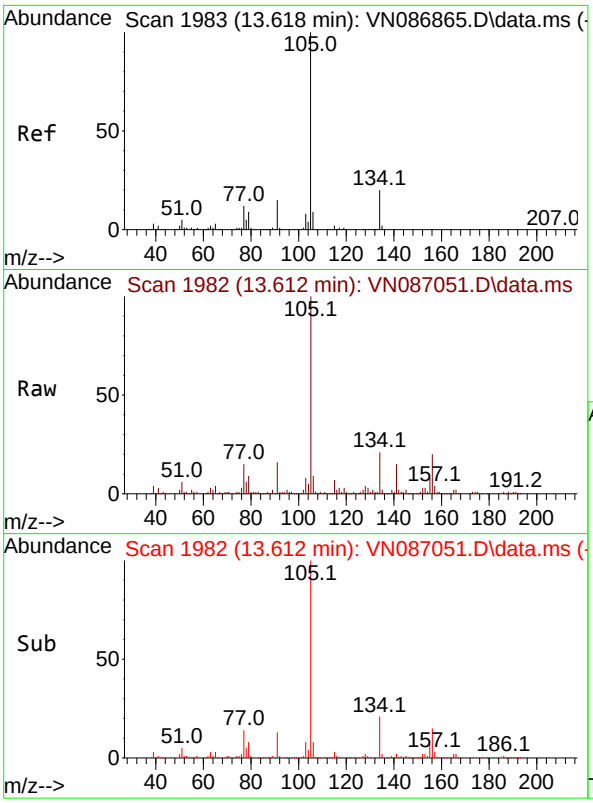


#84
1,2,4-Trimethylbenzene
Concen: 20.334 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:105 Resp: 150274

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.2	69.6





#85
sec-Butylbenzene
Concen: 17.887 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

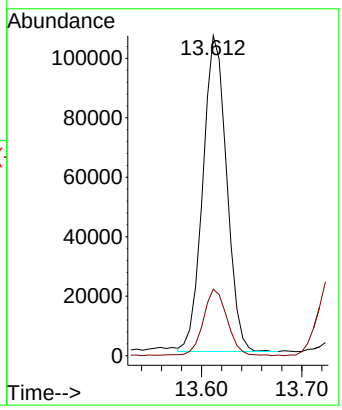
Tgt Ion:105 Resp: 17523

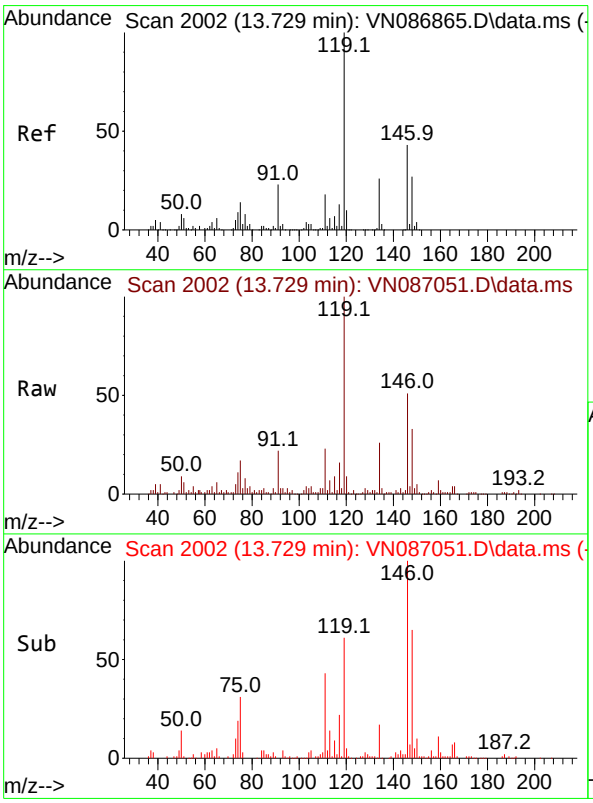
Ion	Ratio	Lower	Upper
105	100		
134	21.5	10.0	30.0

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

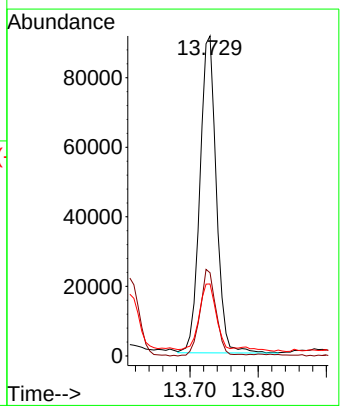


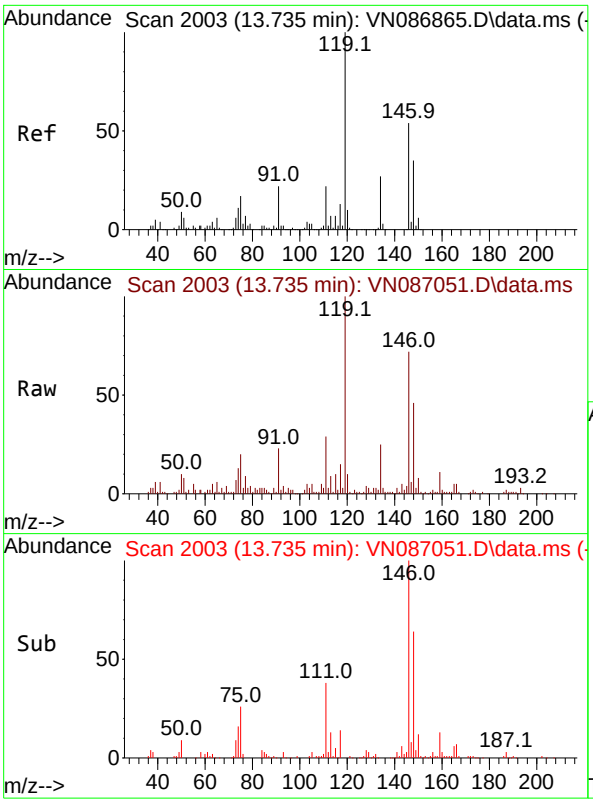


#86
p-Isopropyltoluene
Concen: 18.841 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:119 Resp: 152581

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.5	40.4
91	22.2	11.5	34.4





#87
1,3-Dichlorobenzene
Concen: 21.216 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

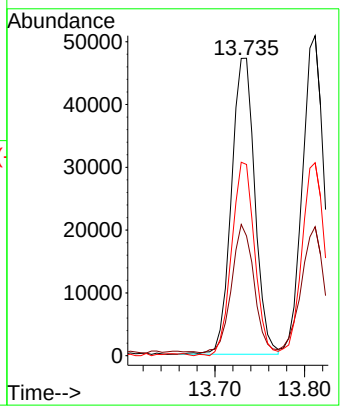
Tgt Ion:146 Resp: 8545

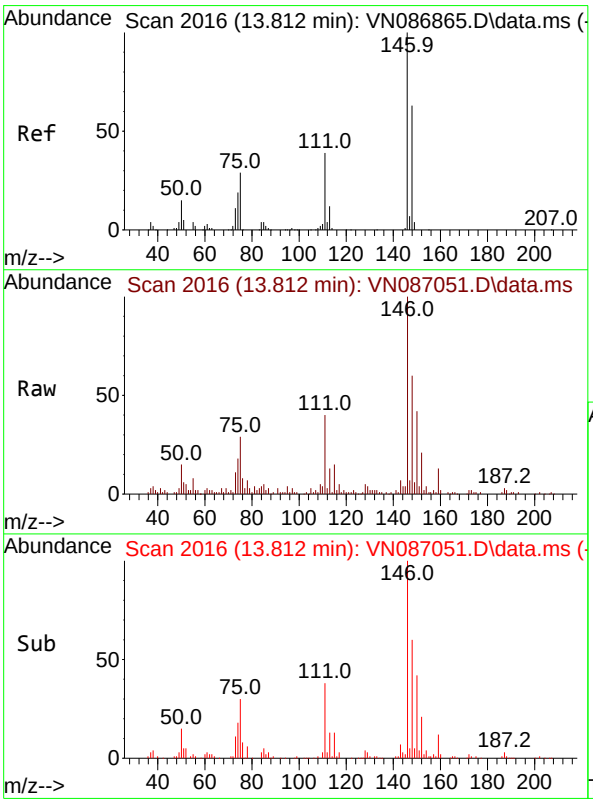
Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.9	62.8
148	64.2	32.0	96.2

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

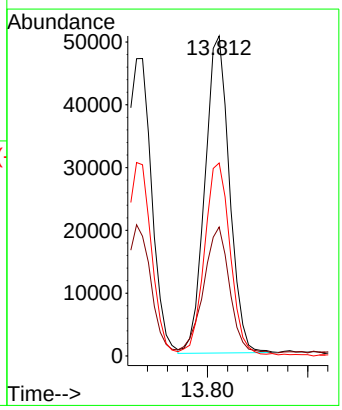


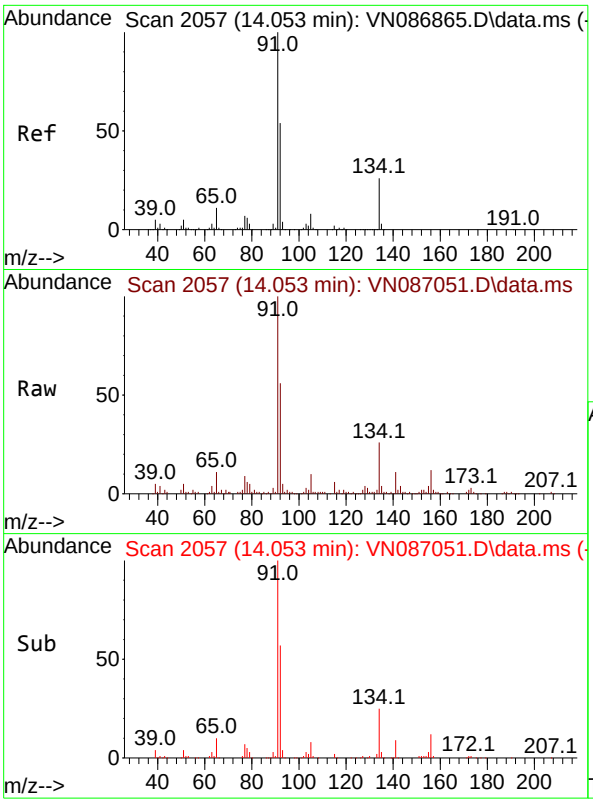


#88
1,4-Dichlorobenzene
Concen: 20.893 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:146 Resp: 85795

Ion	Ratio	Lower	Upper
146	100		
111	41.8	19.9	59.7
148	65.2	31.8	95.4

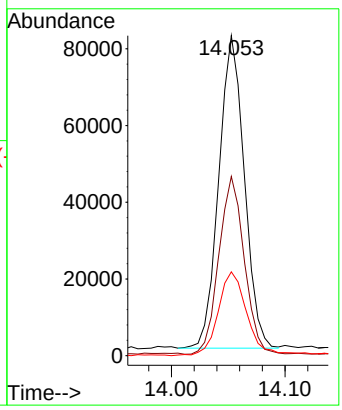




#89
n-Butylbenzene
Concen: 16.188 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 91 Resp: 12698

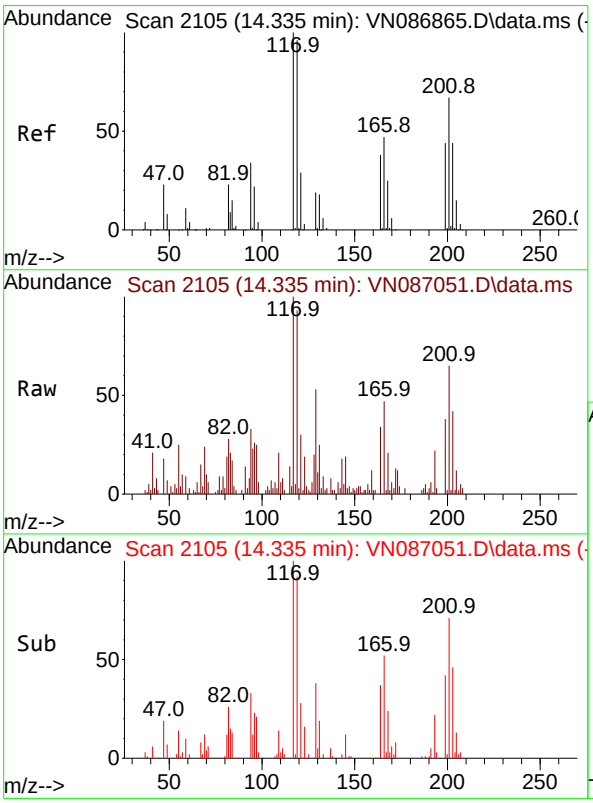
Ion	Ratio	Lower	Upper
91	100		
92	56.6	27.5	82.4
134	30.8	13.0	39.0



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

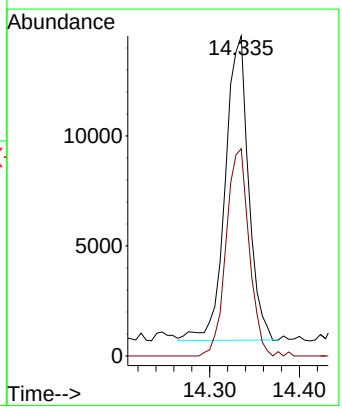
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

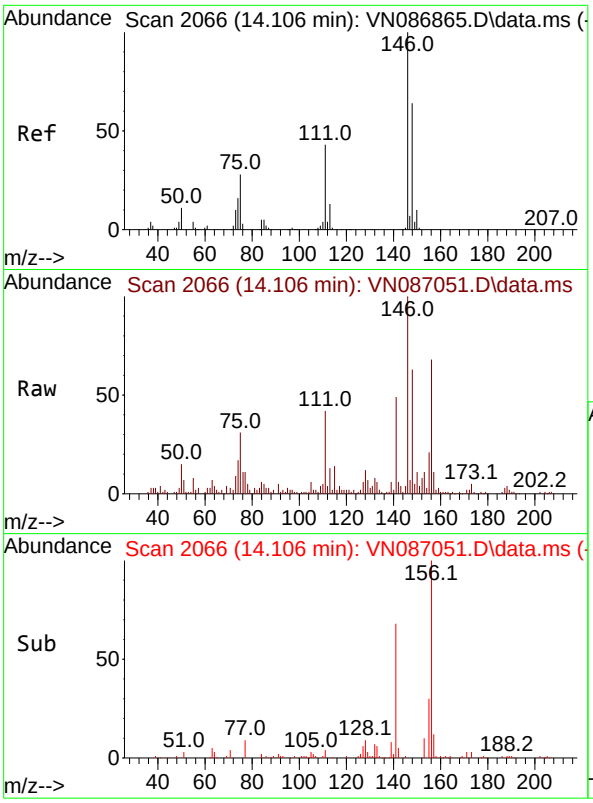


#90
Hexachloroethane
Concen: 18.160 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:117 Resp: 24929

Ion	Ratio	Lower	Upper
117	100		
201	67.0	33.2	99.6

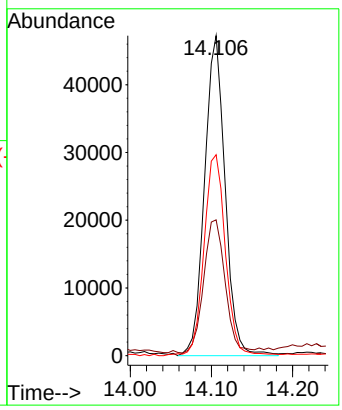




#91
1,2-Dichlorobenzene
Concen: 21.467 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:146 Resp: 8306

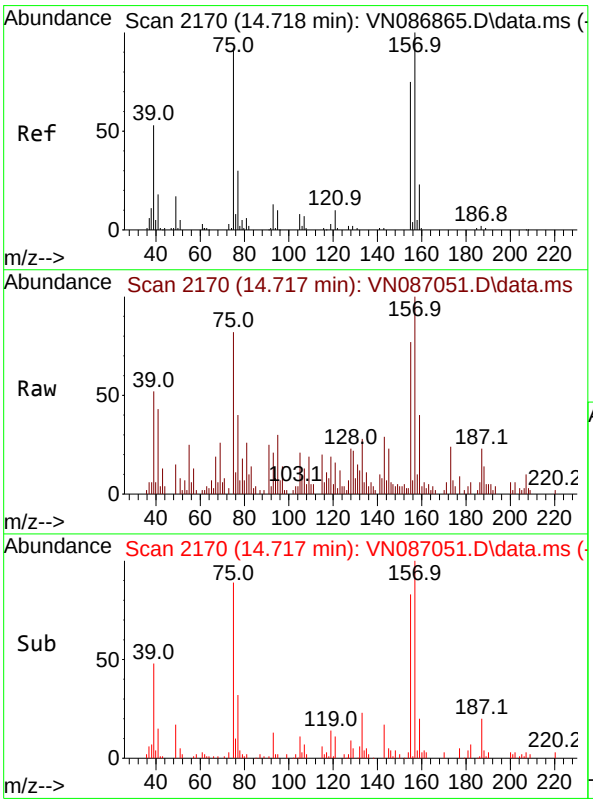
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.6	64.6
148	65.7	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

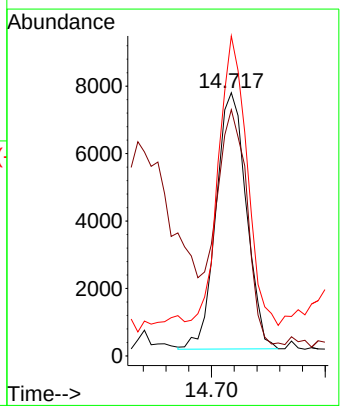
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

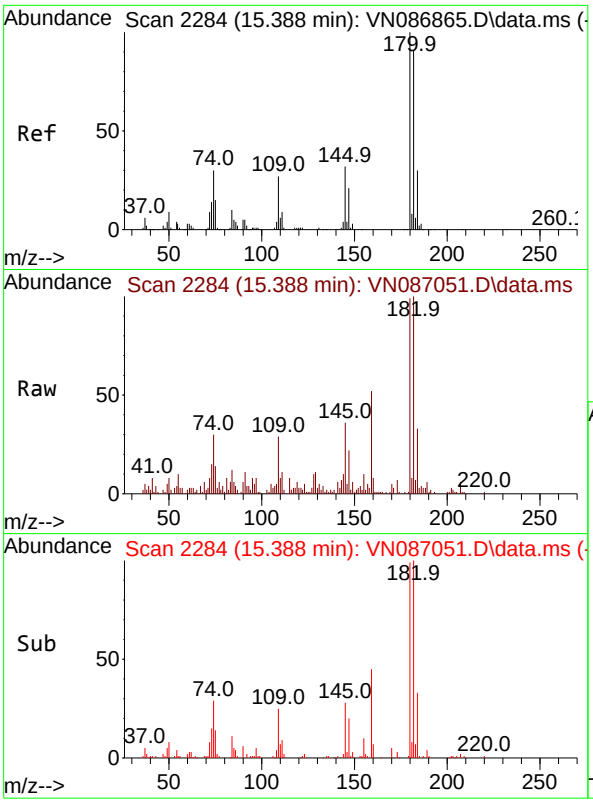


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.510 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 75 Resp: 14110

Ion	Ratio	Lower	Upper
75	100		
155	95.6	41.1	123.4
157	105.5	52.7	158.1

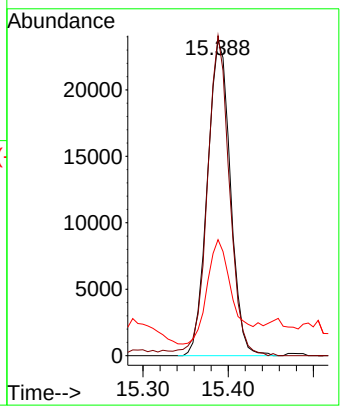




#93
1,2,4-Trichlorobenzene
Concen: 17.983 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:180 Resp: 4443

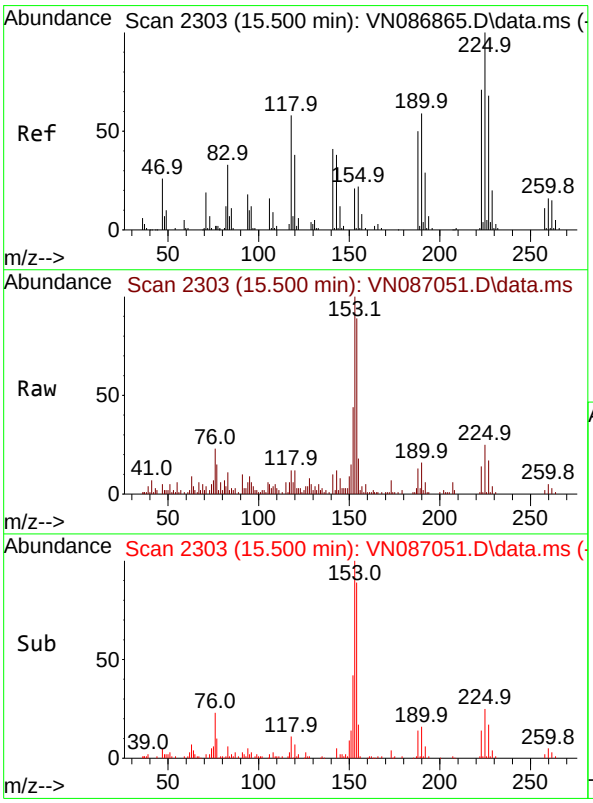
Ion	Ratio	Lower	Upper
180	100		
182	98.0	46.9	140.7
145	36.0	16.0	47.9



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

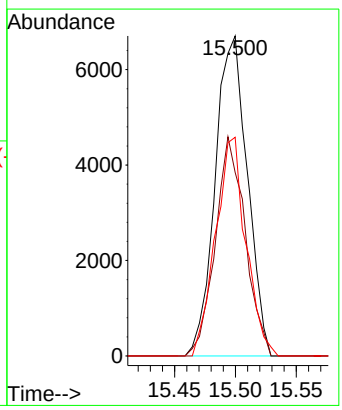
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025

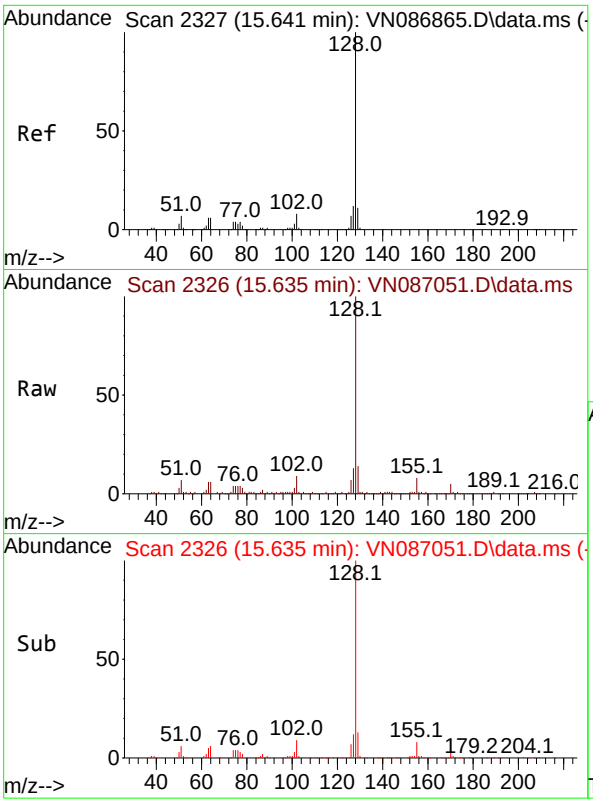


#94
Hexachlorobutadiene
Concen: 13.396 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:225 Resp: 12332

Ion	Ratio	Lower	Upper
225	100		
223	63.5	33.5	100.4
227	64.5	31.1	93.5

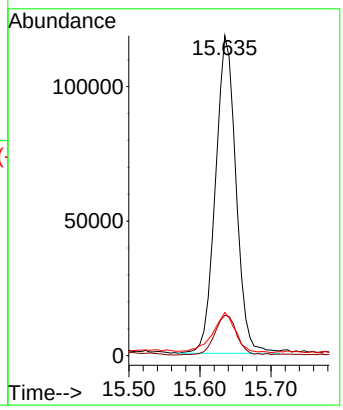




#95
Naphthalene
Concen: 25.772 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:128 Resp: 23702

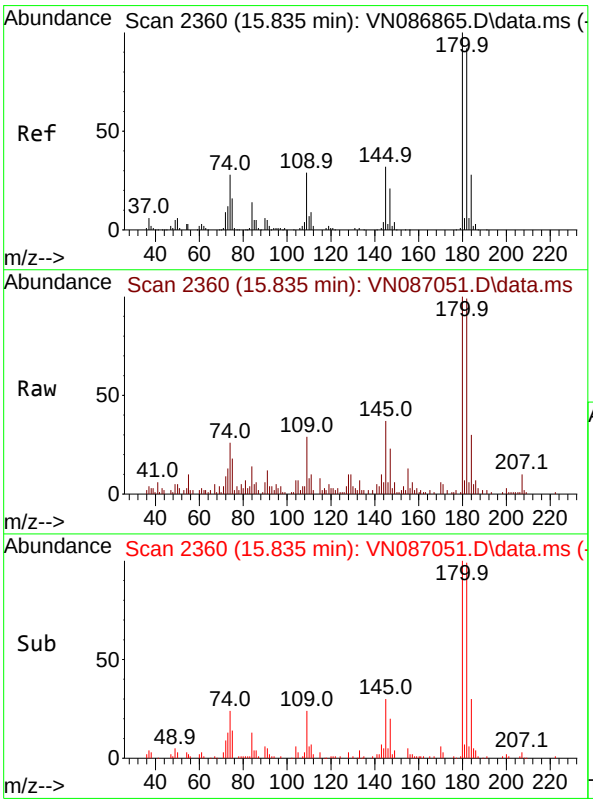
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.2	15.2
129	14.3	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Manual Integrations
APPROVED

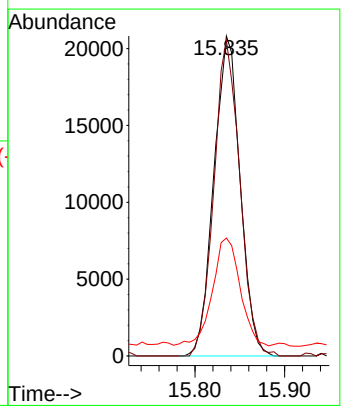
Reviewed By :Semsettin Yesilyurt 06/18/2025
Supervised By :Mahesh Dadoda 06/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 17.214 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:180 Resp: 42260

Ion	Ratio	Lower	Upper
180	100		
182	97.7	47.0	141.0
145	35.6	16.6	49.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0618WBS01	SDG No.:	Q2329
Lab Sample ID:	VN0618WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087077.D	1		06/18/25 12:07	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19.6		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	16.9		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	20.3		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	18.6		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	20.4		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.3		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	20.1		0.23	0.75	1.00	ug/L
67-64-1	Acetone	82.9		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	20.6		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.7		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	15.5		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	19.0		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.0		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.1		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.8		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	85.3		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.0		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.3		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	17.1		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	18.9		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.0		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	17.2		0.16	0.50	1.00	ug/L
71-43-2	Benzene	19.9		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	20.1		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.6		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.4		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	91.0		0.68	2.50	5.00	ug/L
108-88-3	Toluene	20.0		0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0618WBS01	SDG No.:	Q2329
Lab Sample ID:	VN0618WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087077.D	1		06/18/25 12:07	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.2		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.7		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.7		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	83.9		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	20.3		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	20.2		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.8		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	20.1		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.7		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	19.6		0.12	0.50	1.00	ug/L
100-42-5	Styrene	19.8		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	21.0		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.4		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.6		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.3		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.8		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.4		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.8		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.8		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	16.3		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.3		81 - 118		97%	SPK: 50
1868-53-7	Dibromofluoromethane	53.0		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	49.8		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.4		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	214000	8.23				
540-36-3	1,4-Difluorobenzene	380000	9.106				
3114-55-4	Chlorobenzene-d5	333000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	168000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0618WBS01	SDG No.:	Q2329
Lab Sample ID:	VN0618WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087077.D	1		06/18/25 12:07	VN061825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061825\
Data File : VN087077.D
Acq On : 18 Jun 2025 12:07
Operator : JC\MD
Sample : VN0618WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 01:24:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	213664	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	379722	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	333122	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	167760	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	138039	48.253	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.500%			
35) Dibromofluoromethane	8.177	113	119246	52.991	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.980%			
50) Toluene-d8	10.565	98	443603	49.796	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.600%			
62) 4-Bromofluorobenzene	12.847	95	166905	50.428	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	41847	19.643	ug/l	97
3) Chloromethane	2.395	50	46566	16.927	ug/l	100
4) Vinyl Chloride	2.553	62	57713	20.337	ug/l	93
5) Bromomethane	3.001	94	29472	18.559	ug/l	94
6) Chloroethane	3.159	64	37444	20.427	ug/l	98
7) Trichlorofluoromethane	3.530	101	75345	20.321	ug/l	98
8) Diethyl Ether	3.989	74	31110	19.258	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.406	101	45613	19.581	ug/l	99
10) Methyl Iodide	4.612	142	28628	9.481	ug/l	96
11) Tert butyl alcohol	5.536	59	67795	87.339	ug/l	99
12) 1,1-Dichloroethene	4.371	96	47748	20.078	ug/l	94
13) Acrolein	4.206	56	13456	54.765	ug/l	98
14) Allyl chloride	5.053	41	68843	17.455	ug/l	95
15) Acrylonitrile	5.736	53	165705	91.332	ug/l	99
16) Acetone	4.447	43	125781	82.911	ug/l	95
17) Carbon Disulfide	4.736	76	135478	20.595	ug/l	100
18) Methyl Acetate	5.053	43	68403	15.472	ug/l	97
19) Methyl tert-butyl Ether	5.812	73	160700	18.663	ug/l	99
20) Methylene Chloride	5.300	84	53901	18.978	ug/l	97
21) trans-1,2-Dichloroethene	5.812	96	50387	19.044	ug/l	96
22) Diisopropyl ether	6.689	45	150595	18.114	ug/l	98
23) Vinyl Acetate	6.618	43	654255	93.144	ug/l	98
24) 1,1-Dichloroethane	6.589	63	91217	19.066	ug/l	98
25) 2-Butanone	7.494	43	210395	85.320	ug/l	92
26) 2,2-Dichloropropane	7.500	77	78044	20.970	ug/l	98
27) cis-1,2-Dichloroethene	7.500	96	60950	19.262	ug/l	98
28) Bromochloromethane	7.818	49	40126	17.058	ug/l	91
29) Tetrahydrofuran	7.847	42	139346	86.745	ug/l	95
30) Chloroform	7.977	83	90256	18.890	ug/l	99
31) Cyclohexane	8.265	56	82406	17.761	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	77358	19.036	ug/l	97
36) 1,1-Dichloropropene	8.377	75	66753	19.907	ug/l	98
37) Ethyl Acetate	7.571	43	76370	17.891	ug/l	98
38) Carbon Tetrachloride	8.371	117	65790	19.984	ug/l	97
39) Methylcyclohexane	9.606	83	79083	17.214	ug/l	95
40) Benzene	8.612	78	218047	19.886	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087077.D
Acq On : 18 Jun 2025 12:07
Operator : JC\MD
Sample : VN0618WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 01:24:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	41526	17.322	ug/l		94
42) 1,2-Dichloroethane	8.677	62	63897	19.212	ug/l		99
43) Isopropyl Acetate	8.694	43	121654	17.757	ug/l		97
44) Trichloroethene	9.359	130	52194	20.074	ug/l		97
45) 1,2-Dichloropropane	9.624	63	52345	19.622	ug/l		98
46) Dibromomethane	9.712	93	36267	20.468	ug/l		99
47) Bromodichloromethane	9.888	83	70694	19.391	ug/l		98
48) Methyl methacrylate	9.682	41	54263	17.208	ug/l		95
49) 1,4-Dioxane	9.700	88	22022	383.882	ug/l	#	98
51) 4-Methyl-2-Pentanone	10.447	43	375290	90.991	ug/l		98
52) Toluene	10.629	92	133714	19.954	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	78148	19.170	ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	85848	19.682	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	50818	19.709	ug/l		96
56) Ethyl methacrylate	10.882	69	78597	19.138	ug/l	#	91
57) 1,3-Dichloropropane	11.165	76	86921	19.433	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	227303	92.795	ug/l		97
59) 2-Hexanone	11.206	43	222844	83.880	ug/l		91
60) Dibromochloromethane	11.359	129	54446	20.267	ug/l		99
61) 1,2-Dibromoethane	11.471	107	53326	20.177	ug/l		99
64) Tetrachloroethene	11.106	164	41643	19.753	ug/l		98
65) Chlorobenzene	11.894	112	147922	20.133	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.959	131	47569	20.142	ug/l		99
67) Ethyl Benzene	11.965	91	242612	19.171	ug/l		99
68) m/p-Xylenes	12.071	106	192188	39.672	ug/l		99
69) o-Xylene	12.394	106	90763	19.562	ug/l		98
70) Styrene	12.412	104	156838	19.754	ug/l		100
71) Bromoform	12.576	173	36740	20.995	ug/l	#	99
73) Isopropylbenzene	12.694	105	225091	18.418	ug/l		99
74) N-amyl acetate	12.535	43	76165m	17.834	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.935	83	81187	19.609	ug/l		97
76) 1,2,3-Trichloropropane	12.994	75	68554m	17.191	ug/l		
77) Bromobenzene	12.976	156	55698	19.872	ug/l		98
78) n-propylbenzene	13.035	91	273130	18.390	ug/l		100
79) 2-Chlorotoluene	13.123	91	162268	18.218	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	185876	18.421	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	31478	18.171	ug/l		97
82) 4-Chlorotoluene	13.217	91	171133	18.988	ug/l		99
83) tert-Butylbenzene	13.435	119	157194	17.019	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	188377	18.618	ug/l		100
85) sec-Butylbenzene	13.612	105	228942	17.068	ug/l		99
86) p-Isopropyltoluene	13.729	119	192435	17.356	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	106339	19.284	ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	111040	19.750	ug/l		99
89) n-Butylbenzene	14.053	91	170611	15.886	ug/l		99
90) Hexachloroethane	14.329	117	33657	17.908	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	102566	19.360	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	17659	17.834	ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	56770	16.781	ug/l		99
94) Hexachlorobutadiene	15.500	225	18108	14.367	ug/l		99
95) Naphthalene	15.635	128	217923	17.306	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	54686	16.270	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087077.D
Acq On : 18 Jun 2025 12:07
Operator : JC\MD
Sample : VN0618WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 19 01:24:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

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

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

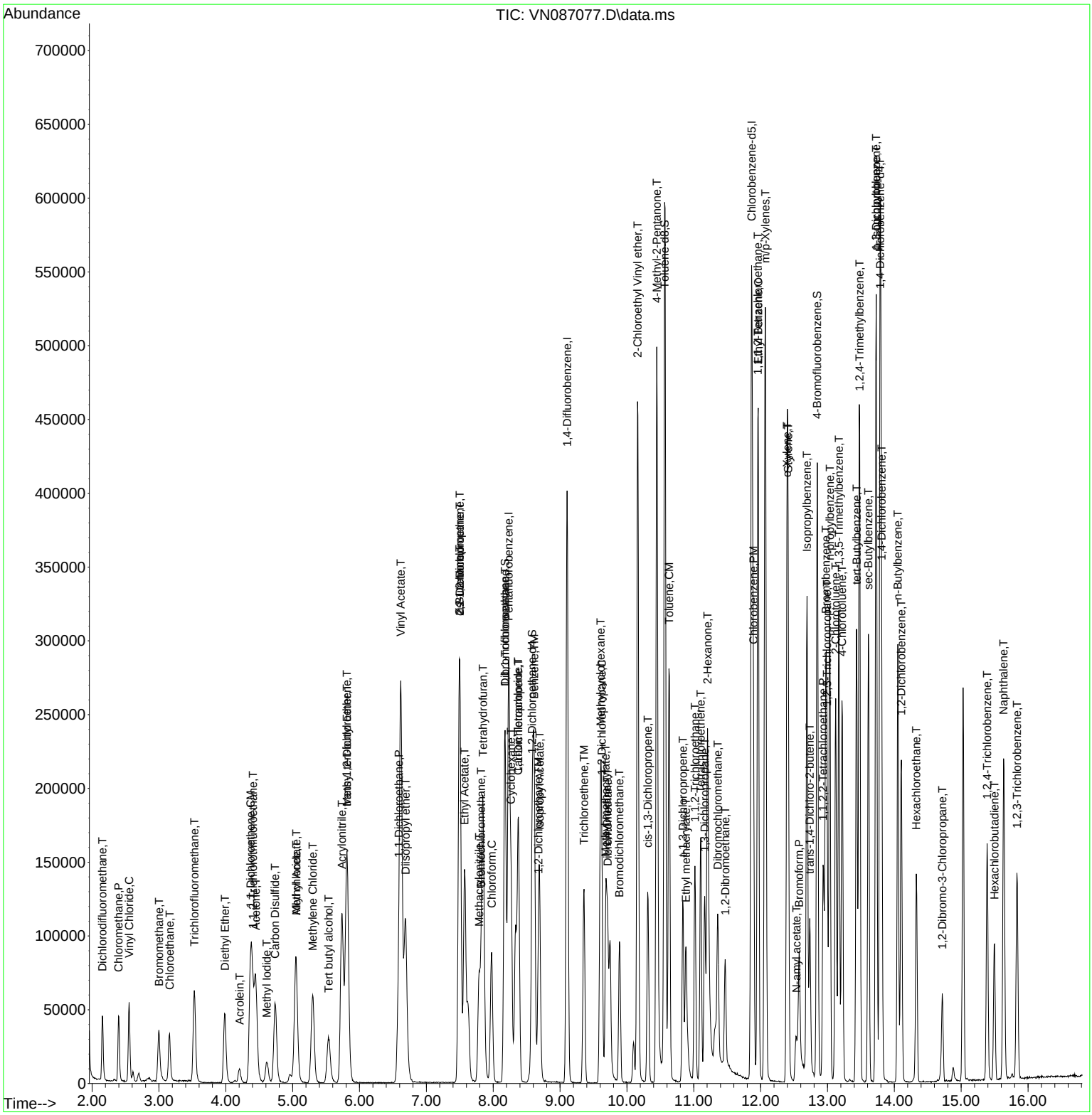
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087077.D
Acq On : 18 Jun 2025 12:07
Operator : JC\MD
Sample : VN0618WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

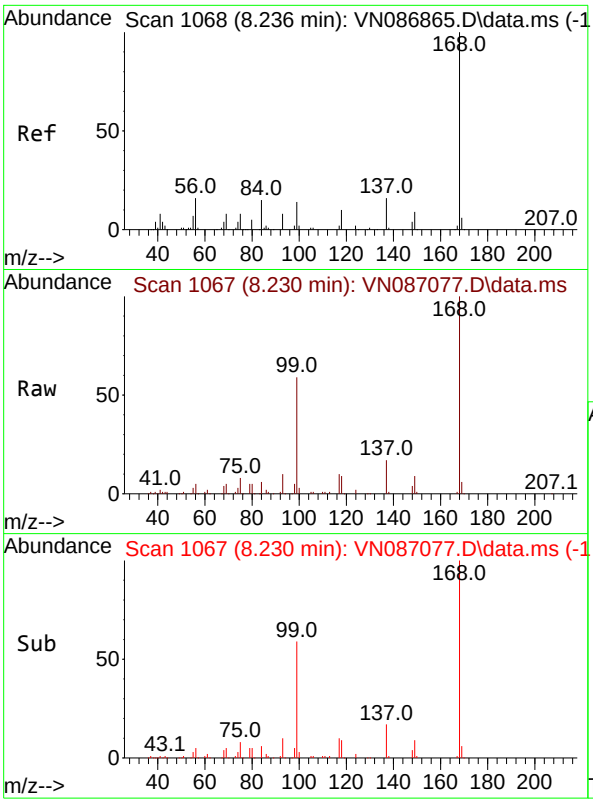
Quant Time: Jun 19 01:24:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

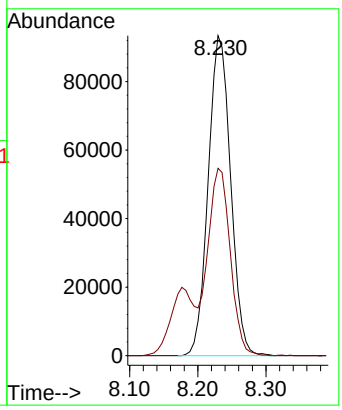




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:168 Resp: 21366

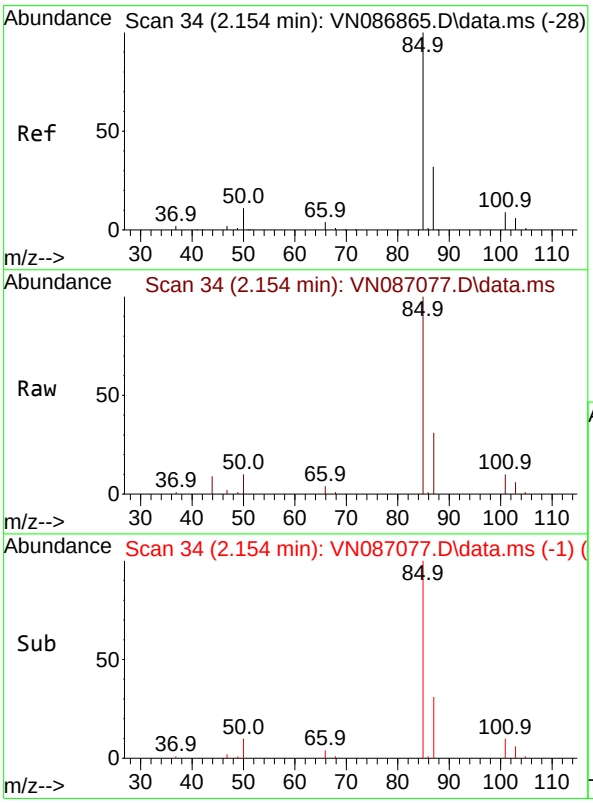
Ion	Ratio	Lower	Upper
168	100		
99	58.4	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations APPROVED

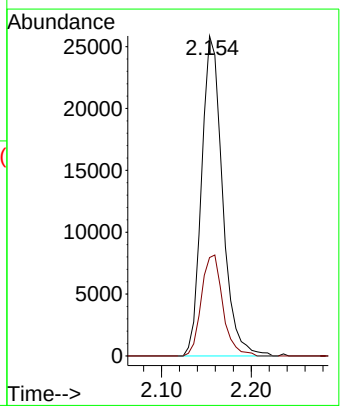
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

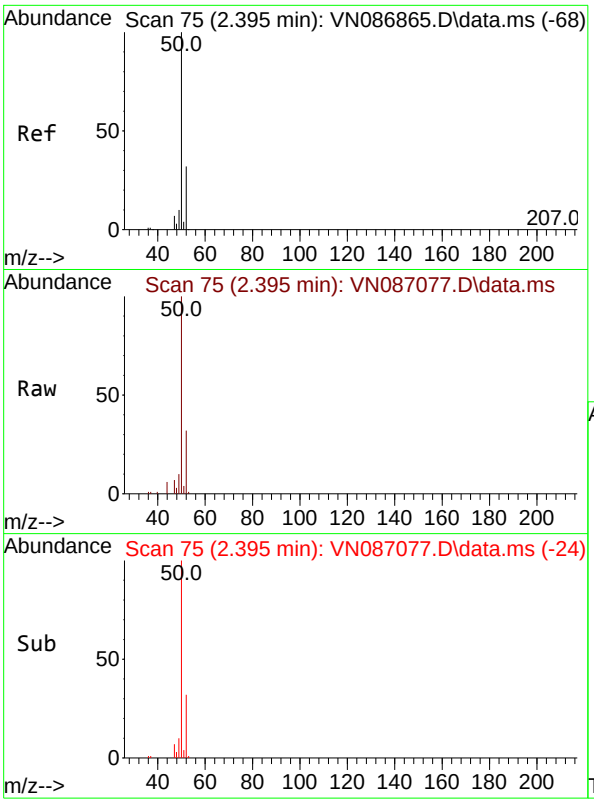


#2
Dichlorodifluoromethane
Concen: 19.643 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 85 Resp: 41847

Ion	Ratio	Lower	Upper
85	100		
87	30.7	16.2	48.6

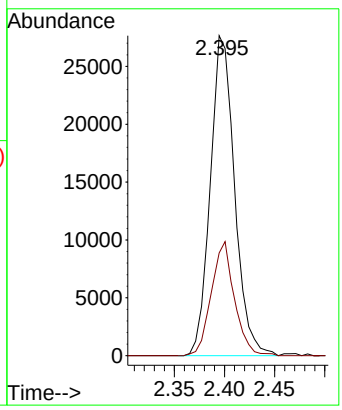




#3
Chloromethane
Concen: 16.927 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 50 Resp: 4656

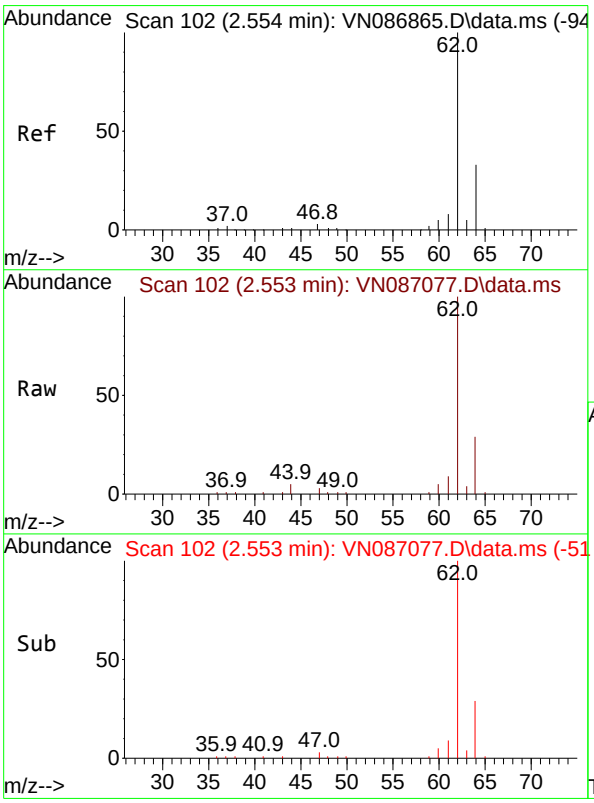
Ion	Ratio	Lower	Upper
50	100		
52	32.1	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

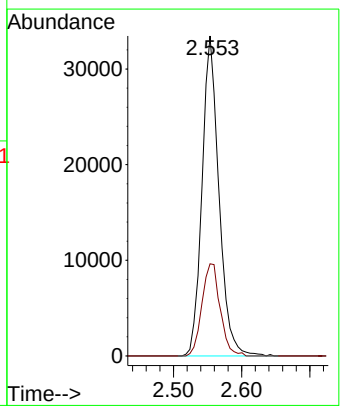
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

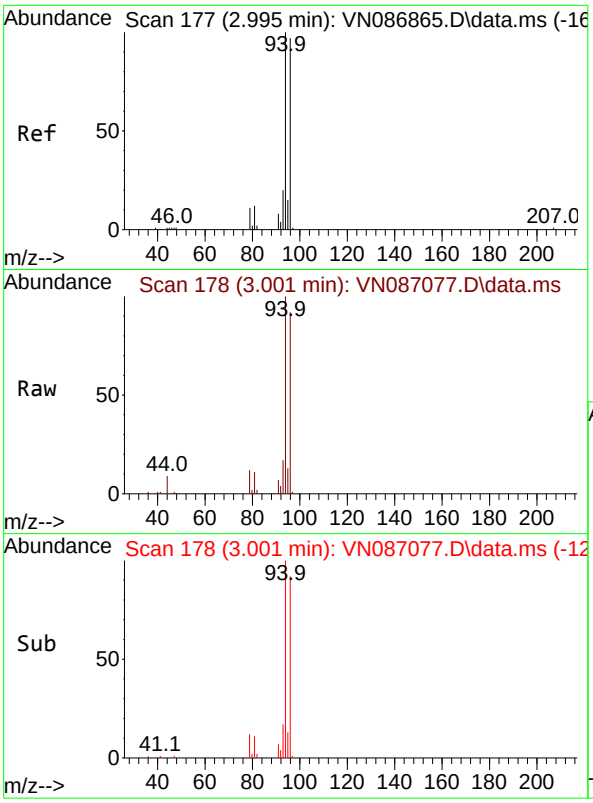


#4
Vinyl Chloride
Concen: 20.337 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 62 Resp: 57713

Ion	Ratio	Lower	Upper
62	100		
64	28.8	26.0	39.0

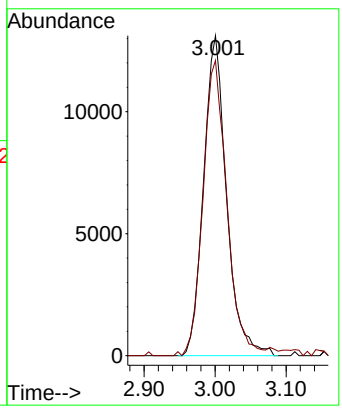




#5
Bromomethane
Concen: 18.559 ug/l
RT: 3.001 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 94 Resp: 2947

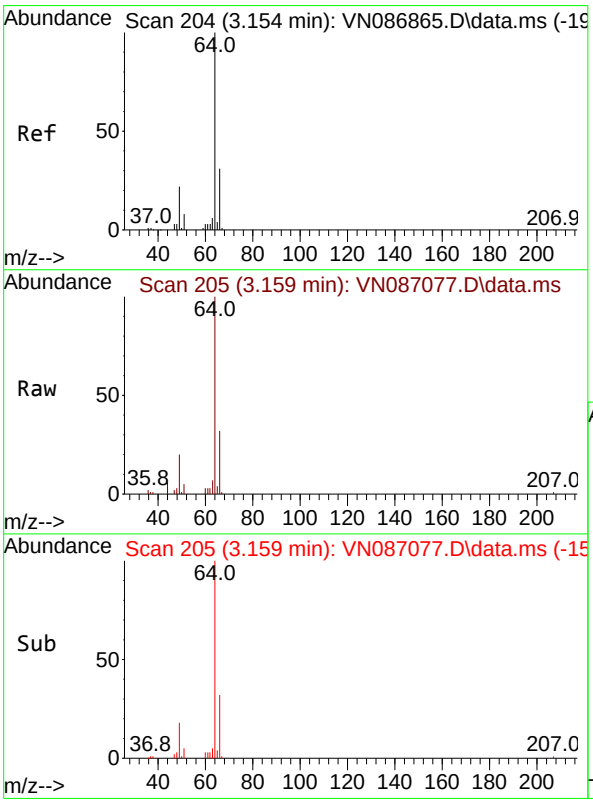
Ion	Ratio	Lower	Upper
94	100		
96	91.0	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

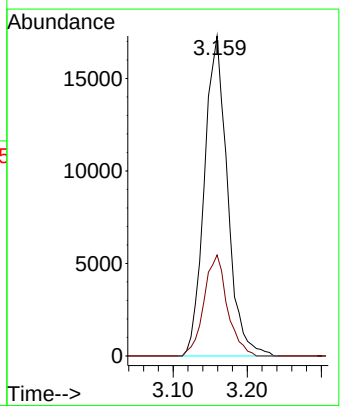
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

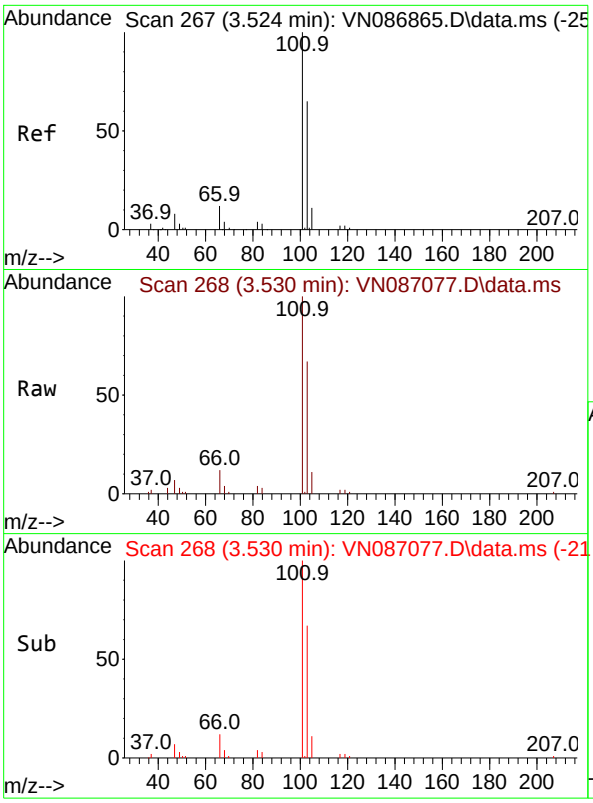


#6
Chloroethane
Concen: 20.427 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 64 Resp: 37444

Ion	Ratio	Lower	Upper
64	100		
66	31.5	24.6	36.8

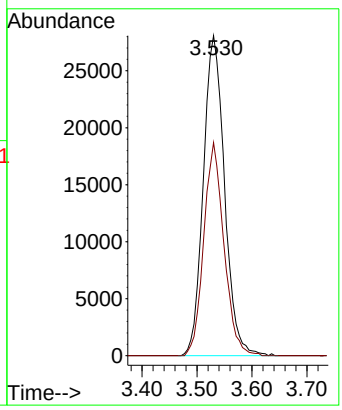




#7
Trichlorofluoromethane
Concen: 20.321 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:101 Resp: 7534

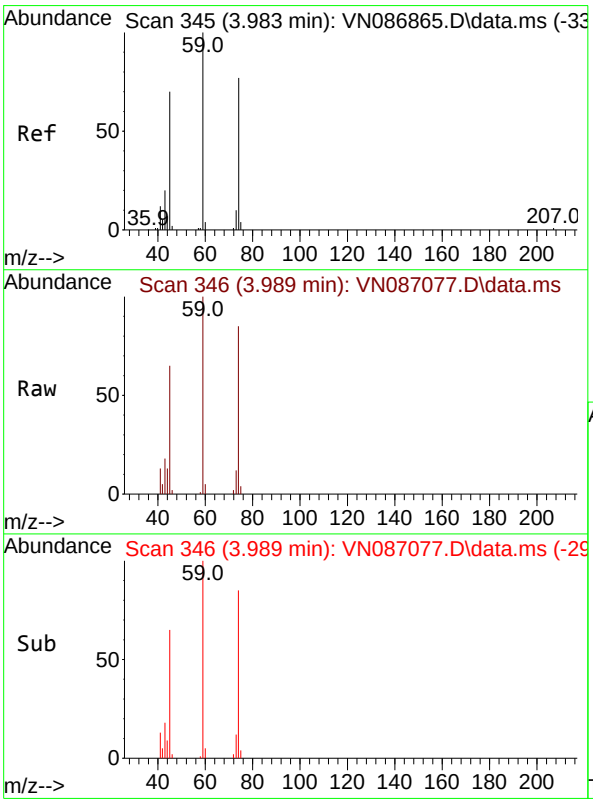
Ion	Ratio	Lower	Upper
101	100		
103	66.6	52.2	78.2



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations APPROVED

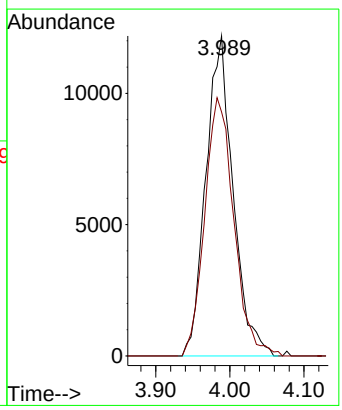
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

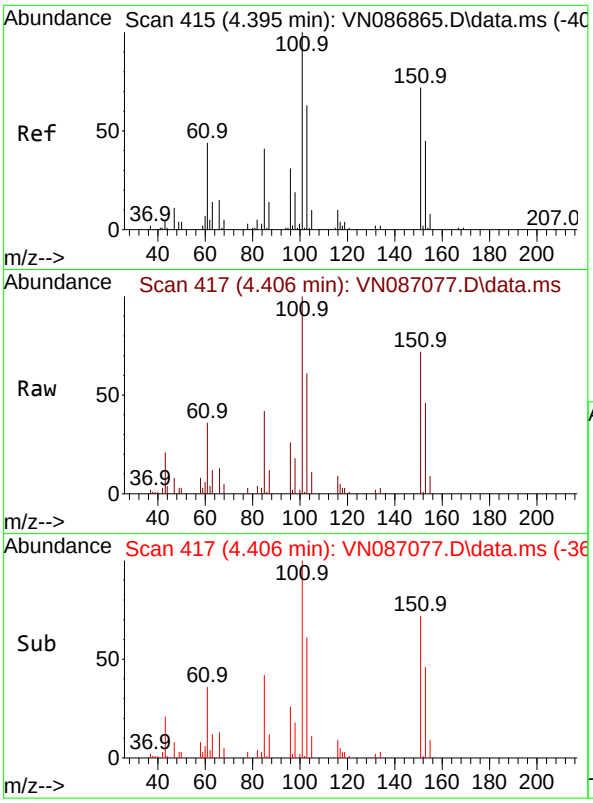


#8
Diethyl Ether
Concen: 19.258 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 74 Resp: 31110

Ion	Ratio	Lower	Upper
74	100		
45	86.3	45.5	136.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.581 ug/l
RT: 4.406 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

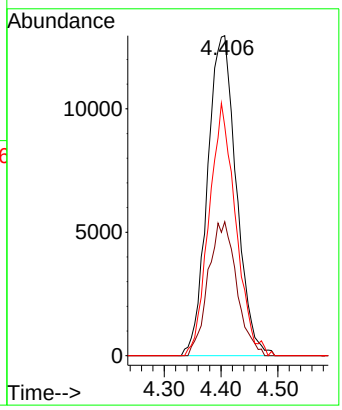
Tgt Ion:101 Resp: 4561

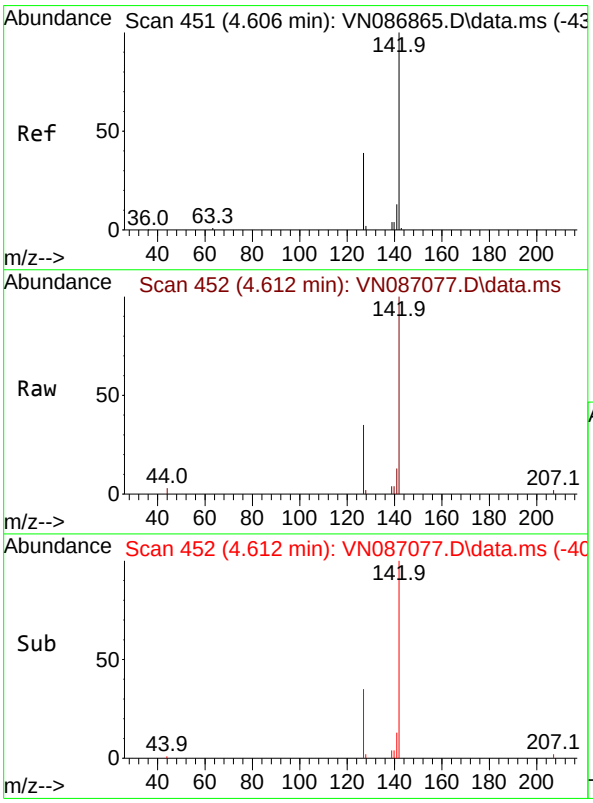
Ion	Ratio	Lower	Upper
101	100		
85	41.4	33.8	50.8
151	73.2	58.7	88.1

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

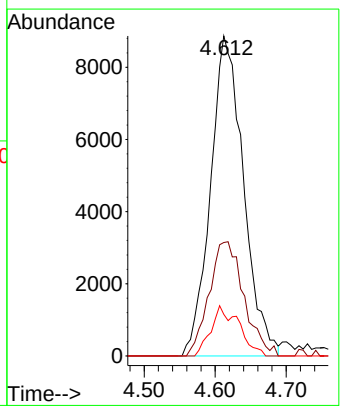


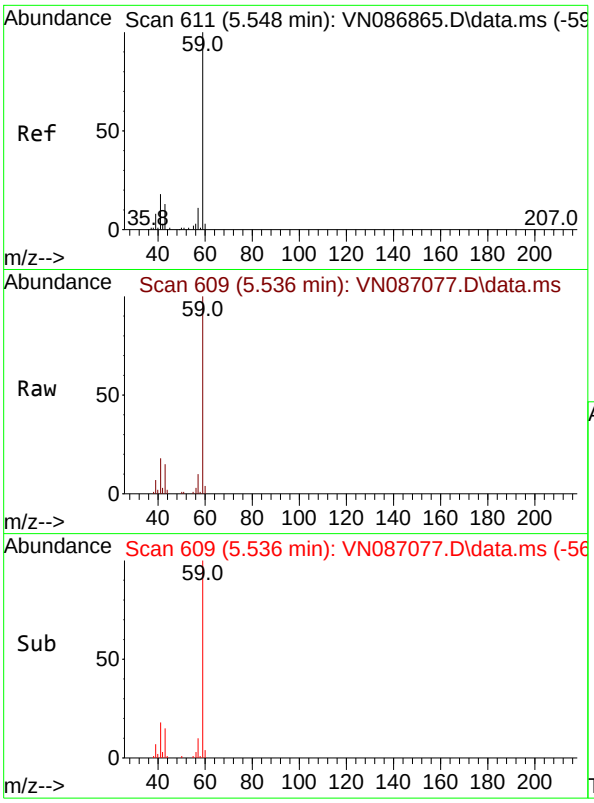


#10
Methyl Iodide
Concen: 9.481 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:142 Resp: 28628

Ion	Ratio	Lower	Upper
142	100		
127	35.5	30.9	46.3
141	13.0	10.4	15.6

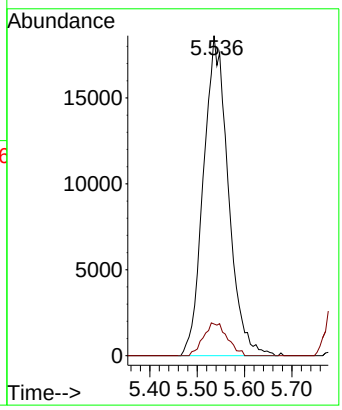




#11
Tert butyl alcohol
Concen: 87.339 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 59 Resp: 6779

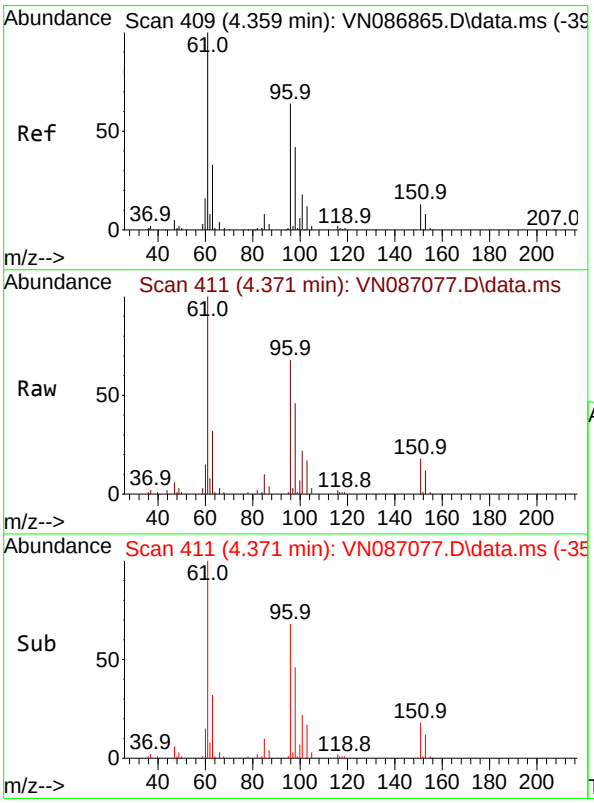
Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

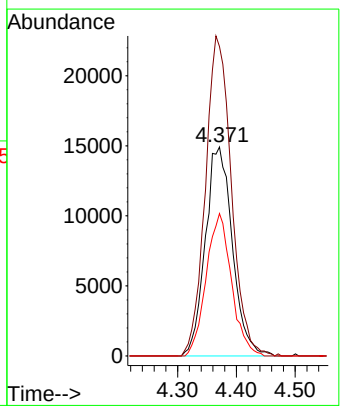
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

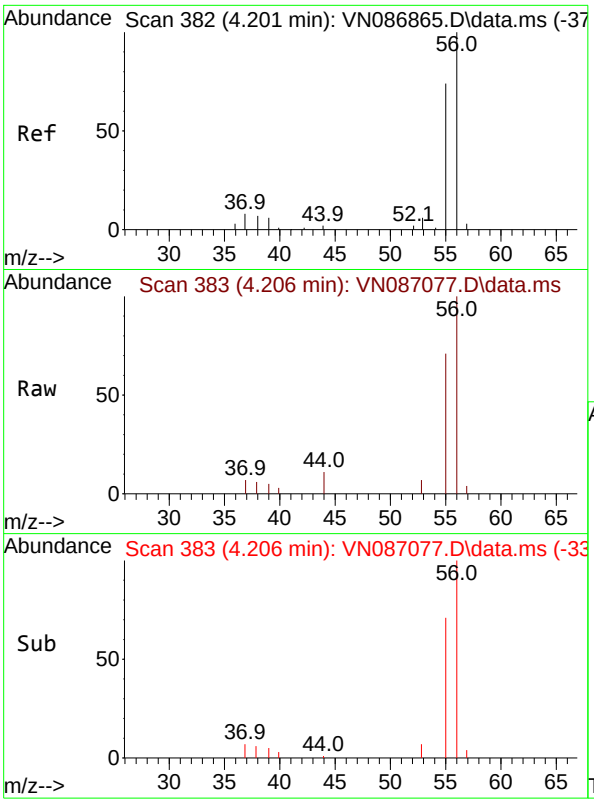


#12
1,1-Dichloroethene
Concen: 20.078 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 96 Resp: 47748

Ion	Ratio	Lower	Upper
96	100		
61	148.1	125.8	188.6
98	68.1	52.5	78.7

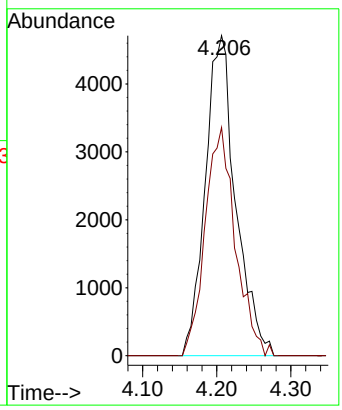




#13
Acrolein
Concen: 54.765 ug/l
RT: 4.206 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 56 Resp: 1345

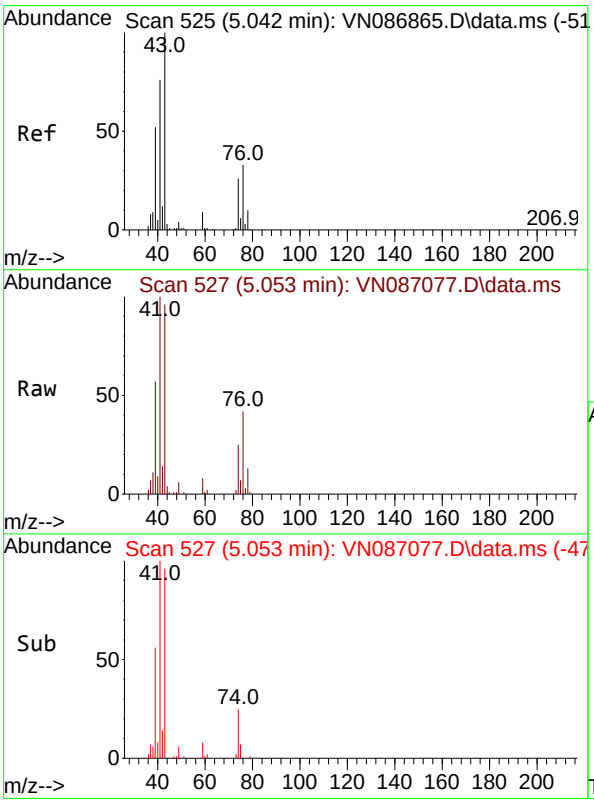
Ion	Ratio	Lower	Upper
56	100		
55	70.8	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

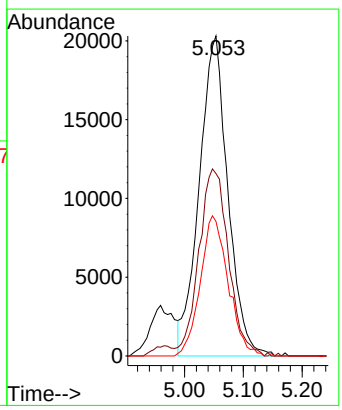
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

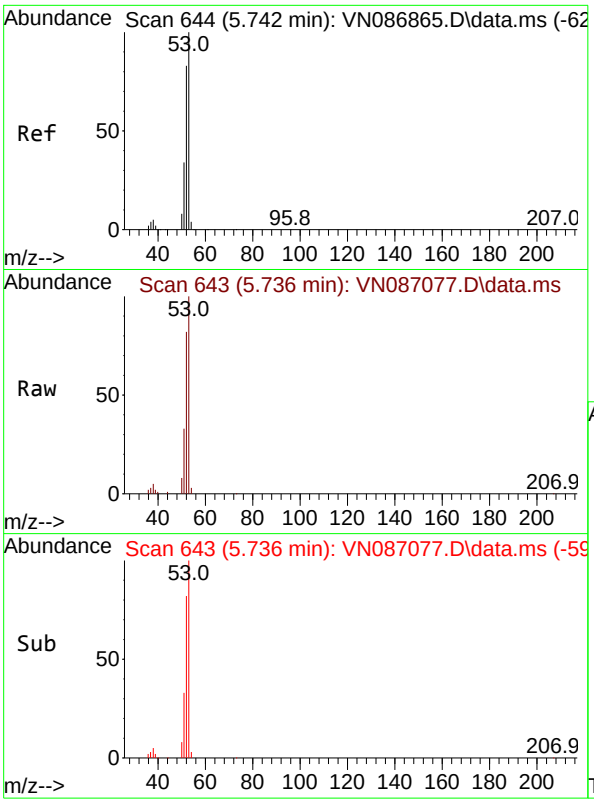


#14
Allyl chloride
Concen: 17.455 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.012 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 41 Resp: 68843

Ion	Ratio	Lower	Upper
41	100		
39	60.5	51.3	76.9
76	42.6	31.4	47.0





#15
Acrylonitrile
Concen: 91.332 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

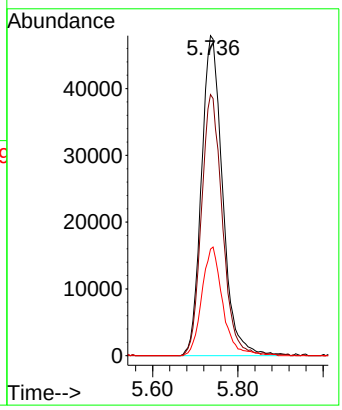
Tgt Ion: 53 Resp: 16570

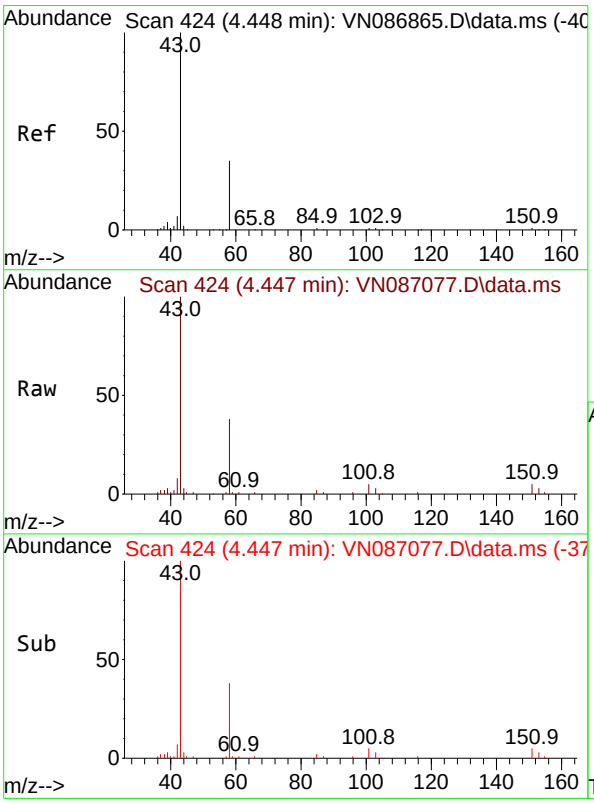
Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.0	97.6
51	33.6	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

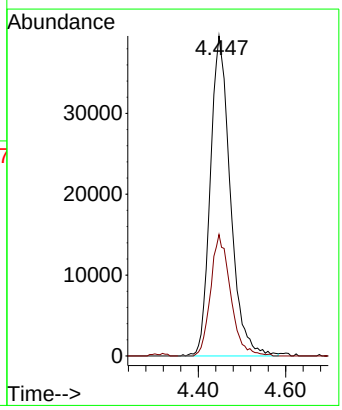


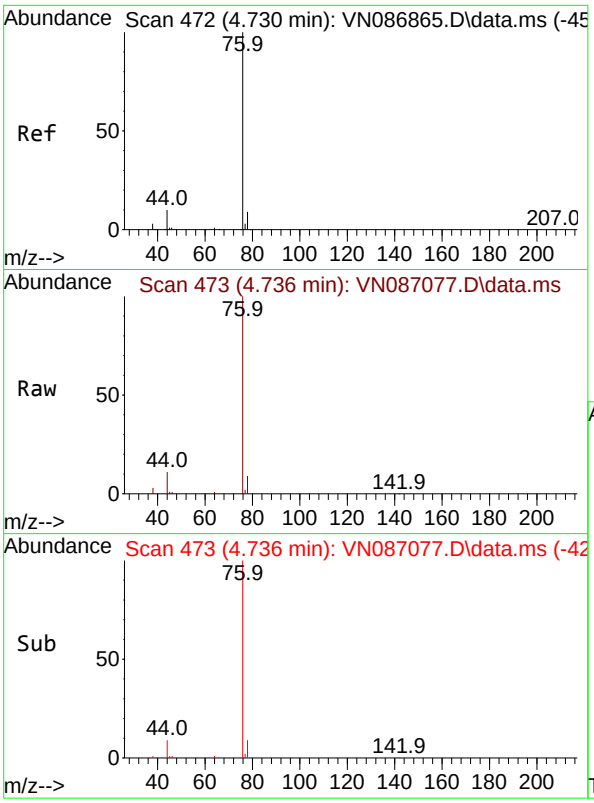


#16
Acetone
Concen: 82.911 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 43 Resp: 125781

Ion	Ratio	Lower	Upper
43	100		
58	37.9	28.0	42.0

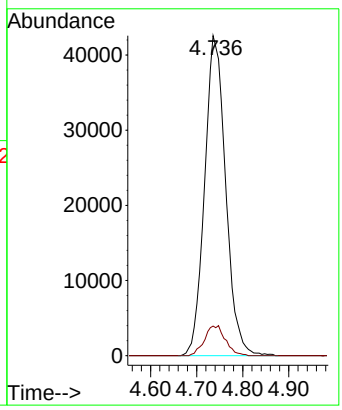




#17
Carbon Disulfide
Concen: 20.595 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 76 Resp: 13547

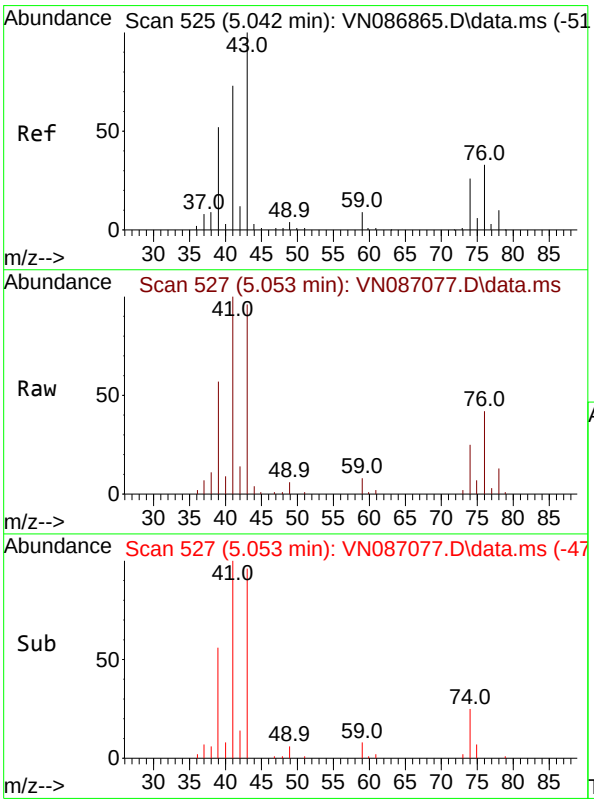
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

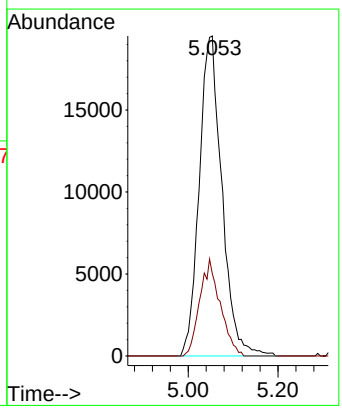
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

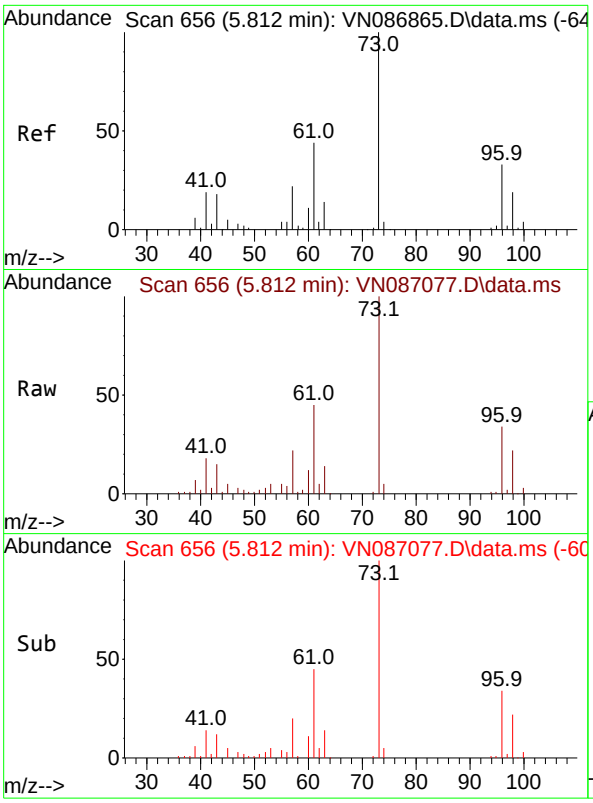


#18
Methyl Acetate
Concen: 15.472 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.012 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 43 Resp: 68403

Ion	Ratio	Lower	Upper
43	100		
74	27.3	20.7	31.1

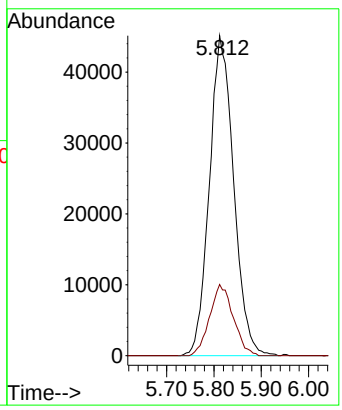




#19
Methyl tert-butyl Ether
Concen: 18.663 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 73 Resp: 16070

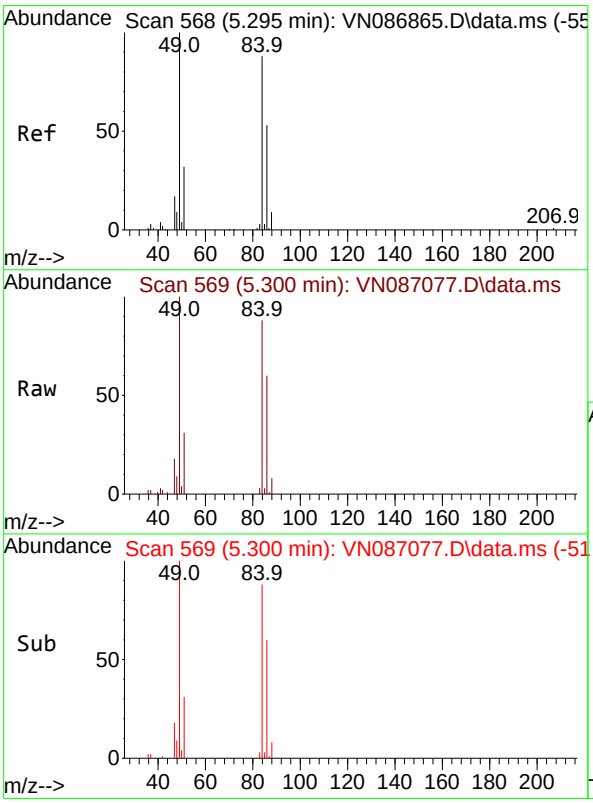
Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

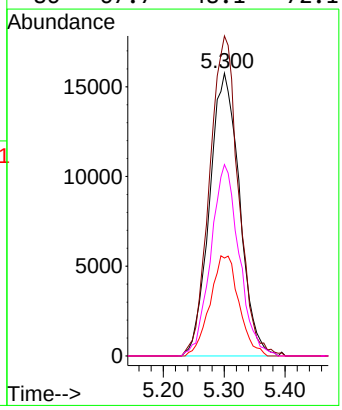
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

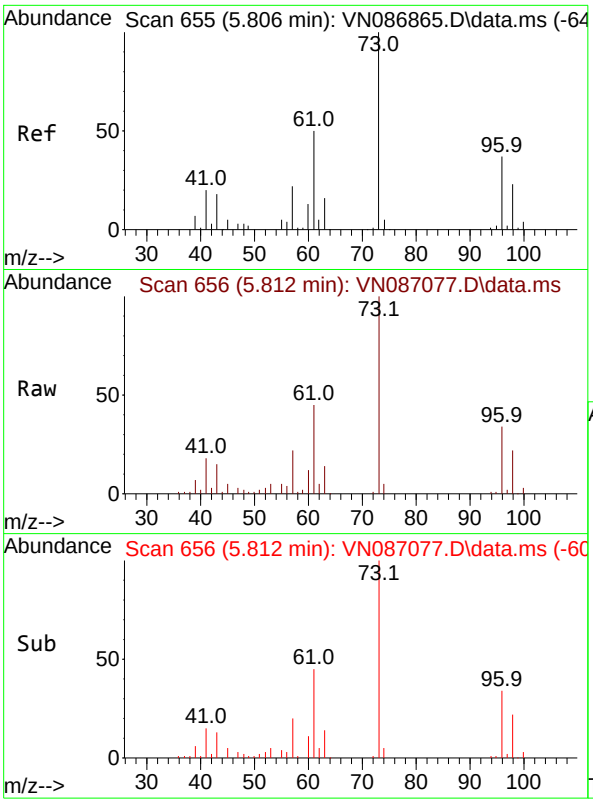


#20
Methylene Chloride
Concen: 18.978 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 84 Resp: 53901

Ion	Ratio	Lower	Upper
84	100		
49	113.2	90.5	135.7
51	34.6	28.5	42.7
86	67.7	48.1	72.1

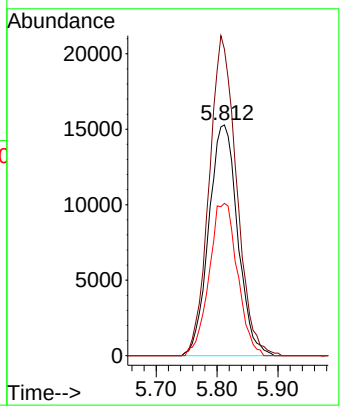




#21
trans-1,2-Dichloroethene
Concen: 19.044 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 96 Resp: 5038

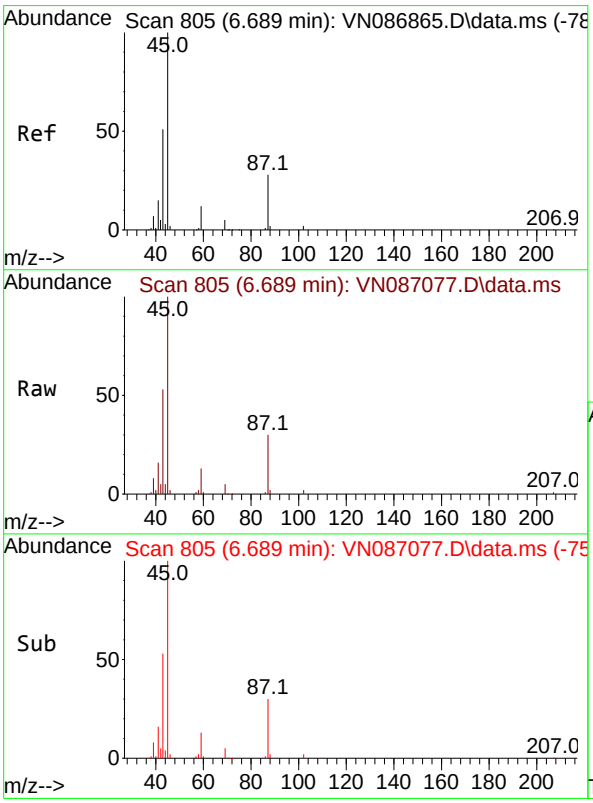
Ion	Ratio	Lower	Upper
96	100		
61	132.7	109.2	163.8
98	66.0	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

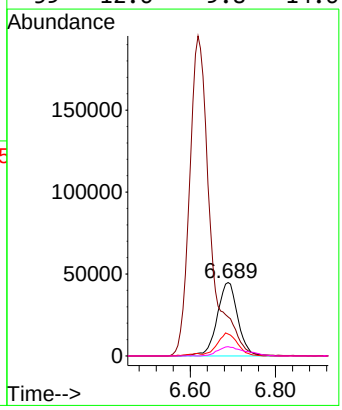
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

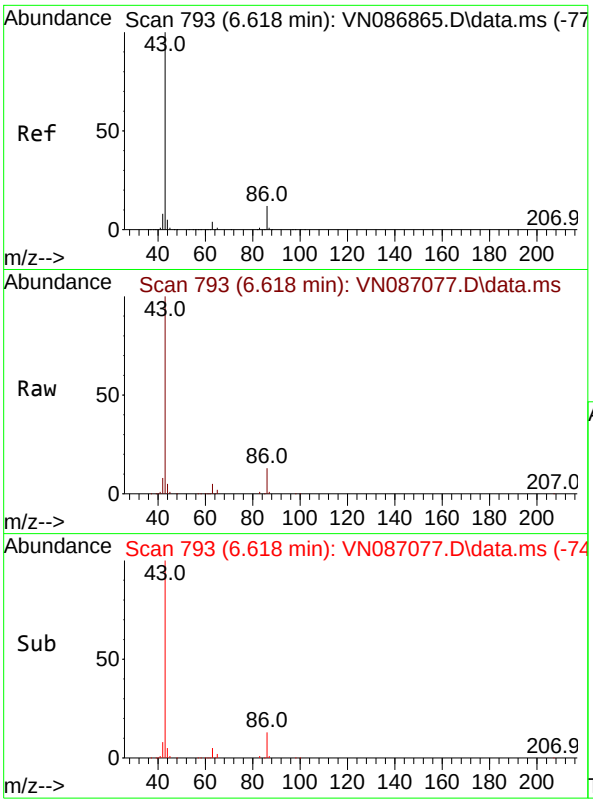


#22
Diisopropyl ether
Concen: 18.114 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 45 Resp: 150595

Ion	Ratio	Lower	Upper
45	100		
43	52.1	41.9	62.9
87	30.0	22.4	33.6
59	12.6	9.8	14.6

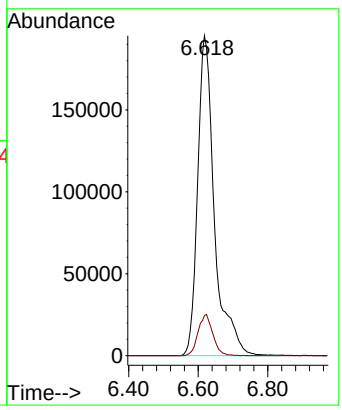




#23
Vinyl Acetate
Concen: 93.144 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 43 Resp: 65425

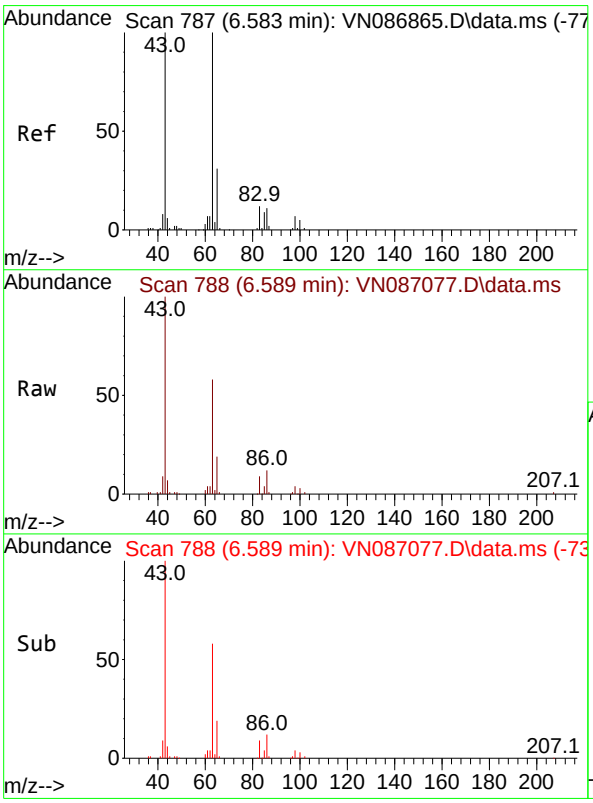
Ion	Ratio	Lower	Upper
43	100		
86	12.5	9.5	14.3



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

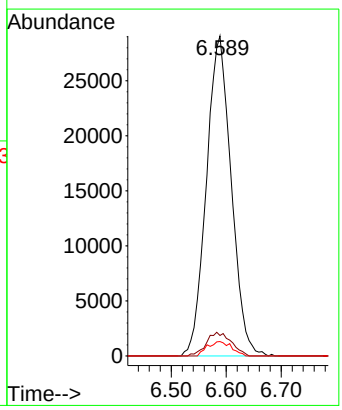
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

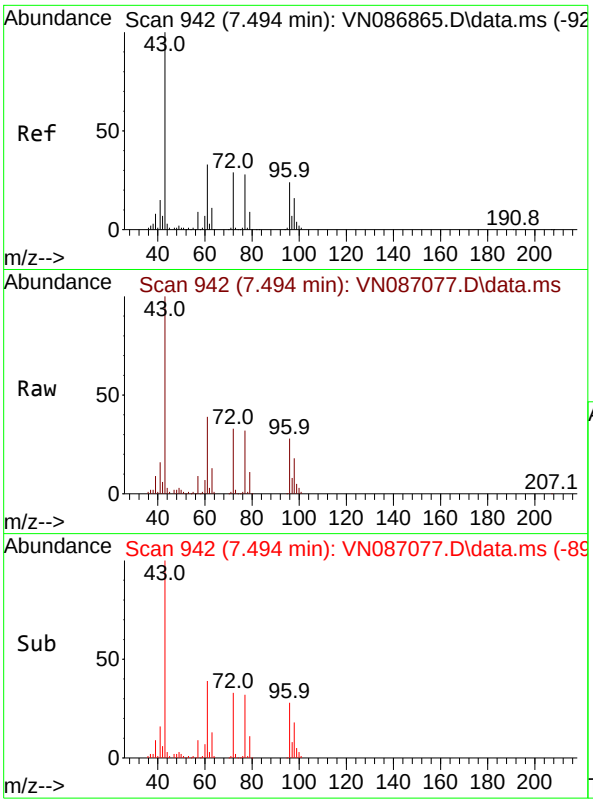


#24
1,1-Dichloroethane
Concen: 19.066 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 63 Resp: 91217

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.6	10.8
100	4.5	2.6	7.8





#25
2-Butanone
Concen: 85.320 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

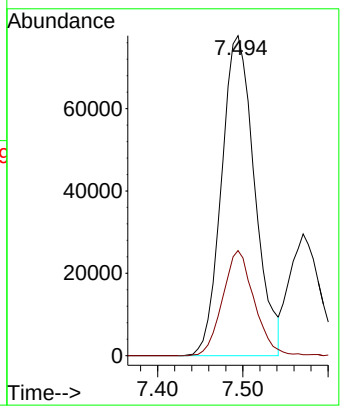
Tgt Ion: 43 Resp: 21039

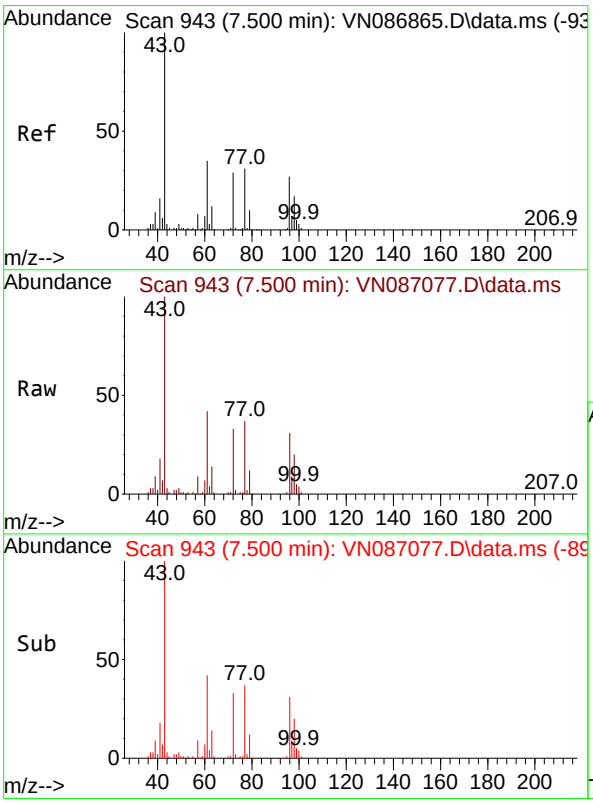
Ion	Ratio	Lower	Upper
43	100		
72	32.8	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

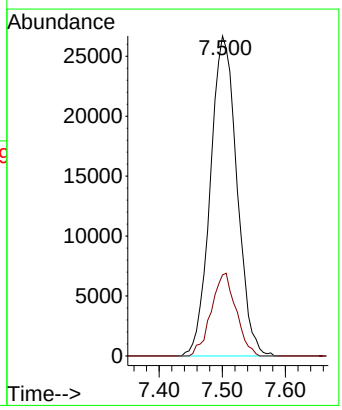


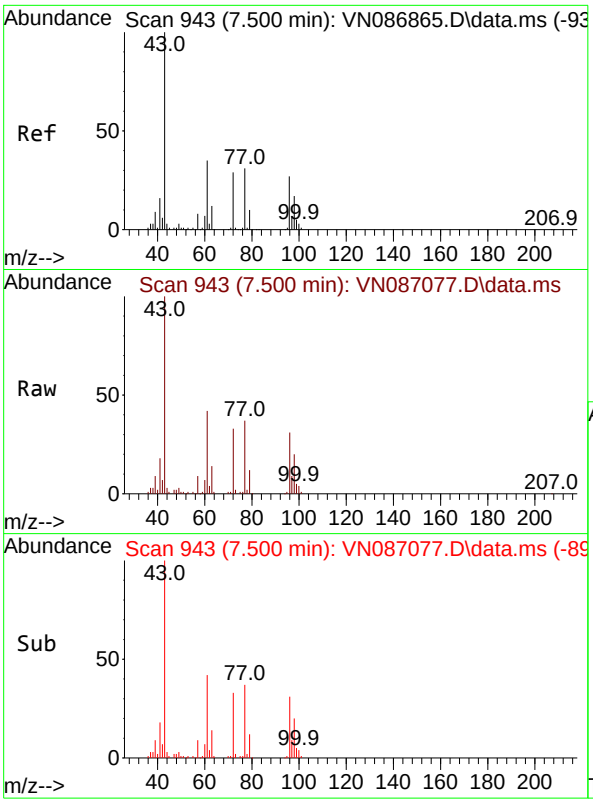


#26
2,2-Dichloropropane
Concen: 20.970 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 77 Resp: 78044

Ion	Ratio	Lower	Upper
77	100		
97	24.2	11.6	34.7





#27
cis-1,2-Dichloroethene
Concen: 19.262 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

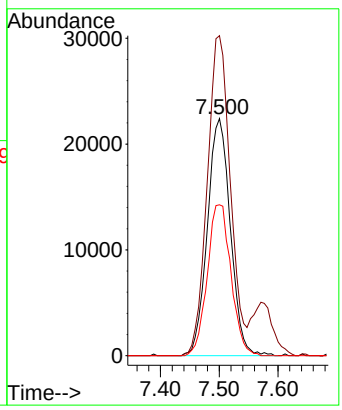
Tgt Ion: 96 Resp: 6095

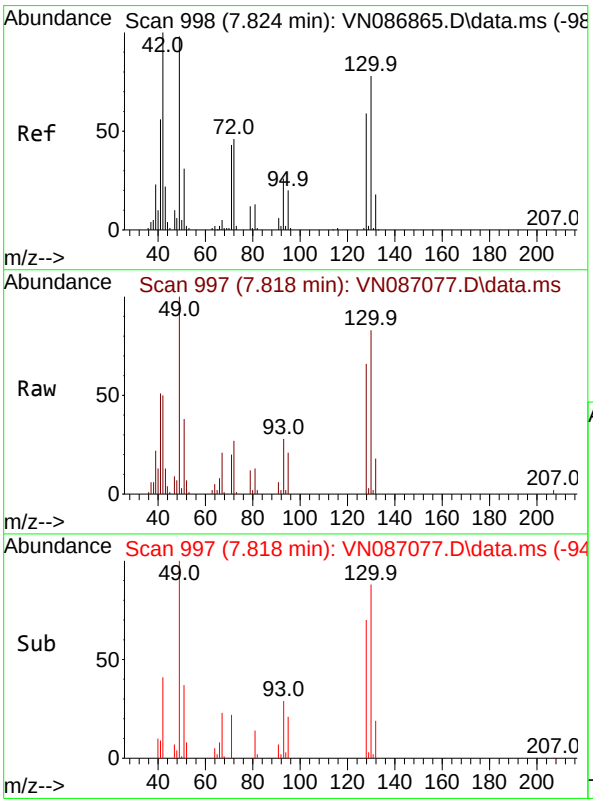
Ion	Ratio	Lower	Upper
96	100		
61	135.7	0.0	278.0
98	65.6	0.0	128.2

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

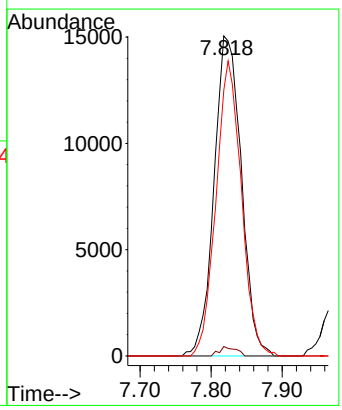


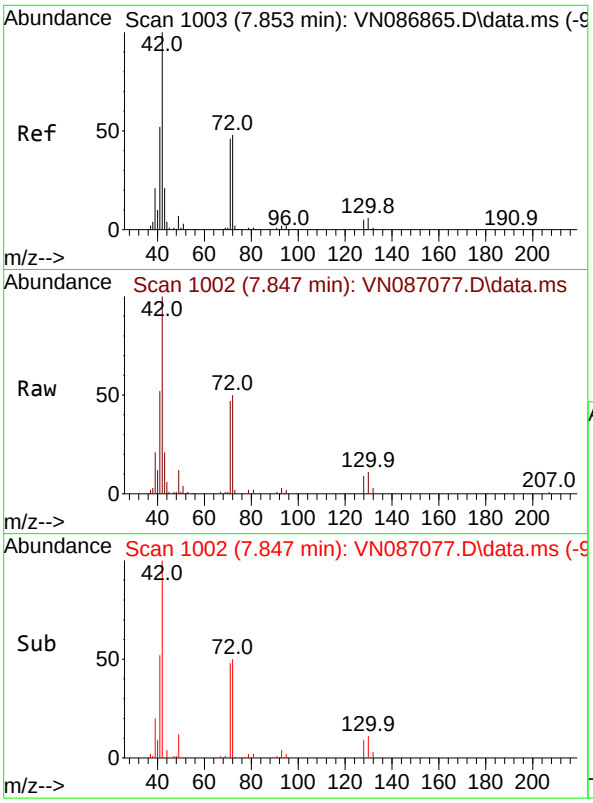


#28
Bromochloromethane
Concen: 17.058 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 49 Resp: 40126

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	85.8	62.2	93.2

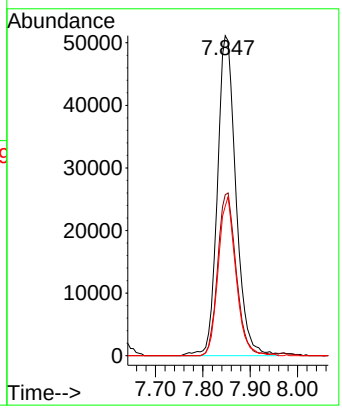




#29
Tetrahydrofuran
Concen: 86.745 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 42 Resp: 13934

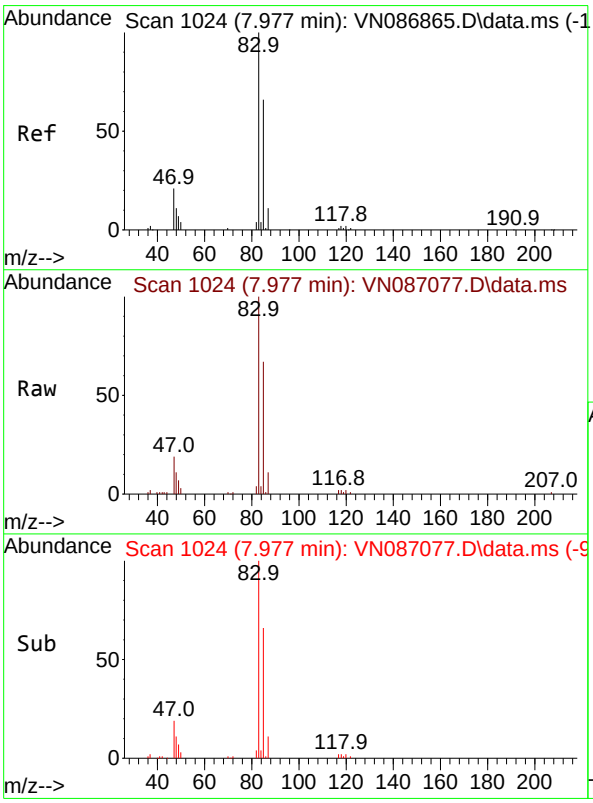
Ion	Ratio	Lower	Upper
42	100		
72	50.7	37.8	56.6
71	47.2	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

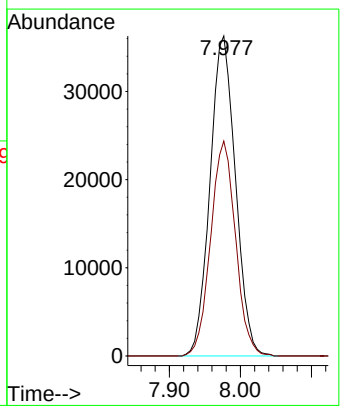
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

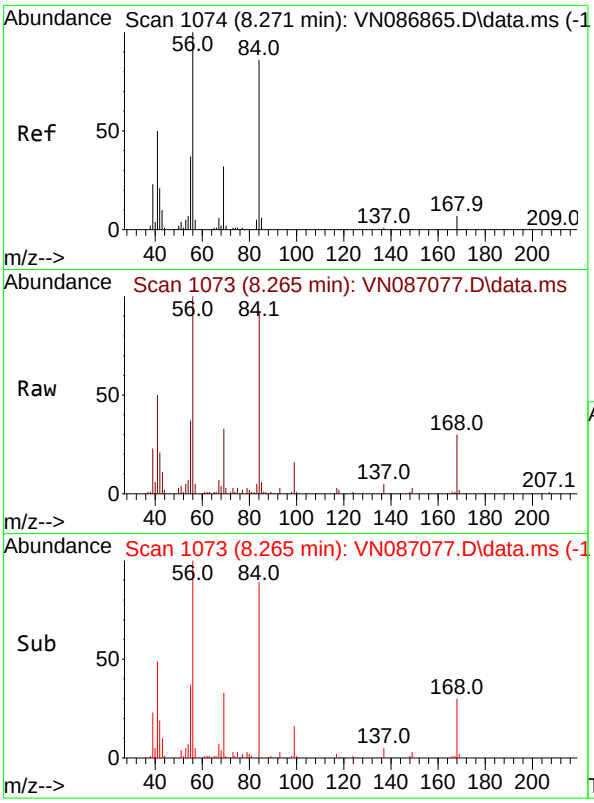


#30
Chloroform
Concen: 18.890 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 83 Resp: 90256

Ion	Ratio	Lower	Upper
83	100		
85	67.2	52.9	79.3

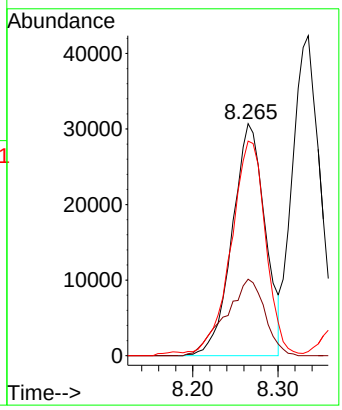




#31
Cyclohexane
Concen: 17.761 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 56 Resp: 8240

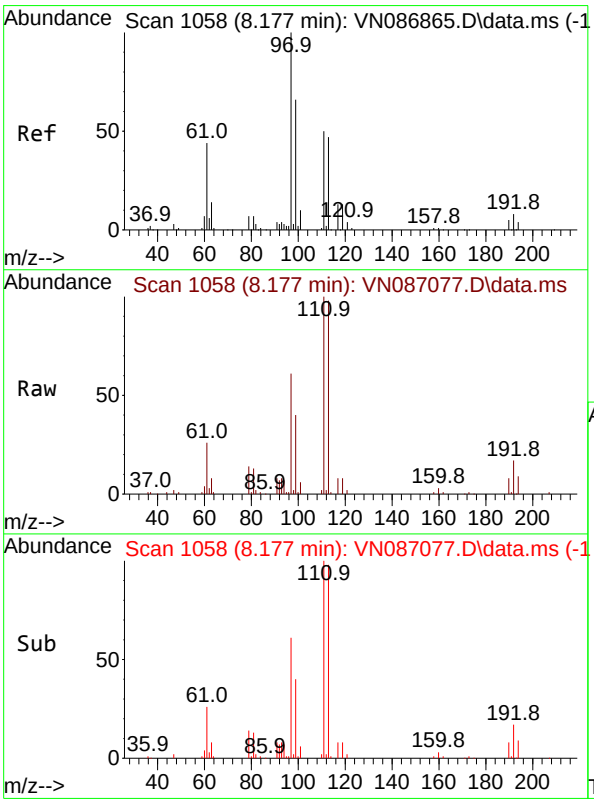
Ion	Ratio	Lower	Upper
56	100		
69	32.9	25.4	38.0
84	91.0	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

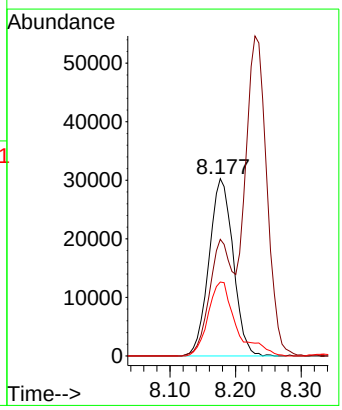
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

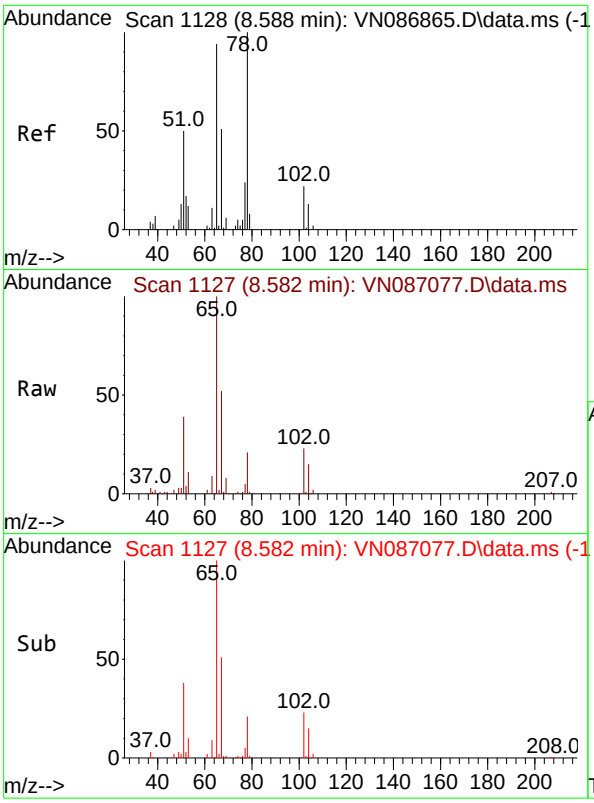


#32
1,1,1-Trichloroethane
Concen: 19.036 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 97 Resp: 77358

Ion	Ratio	Lower	Upper
97	100		
99	63.6	52.0	78.0
61	48.3	35.9	53.9

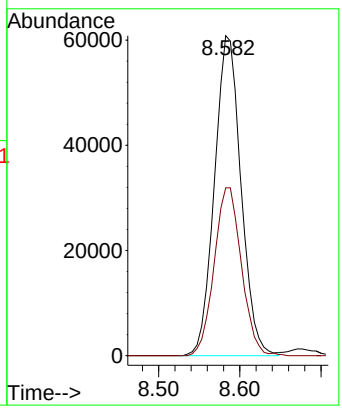




#33
1,2-Dichloroethane-d4
Concen: 48.253 ug/l
RT: 8.582 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 65 Resp: 13803

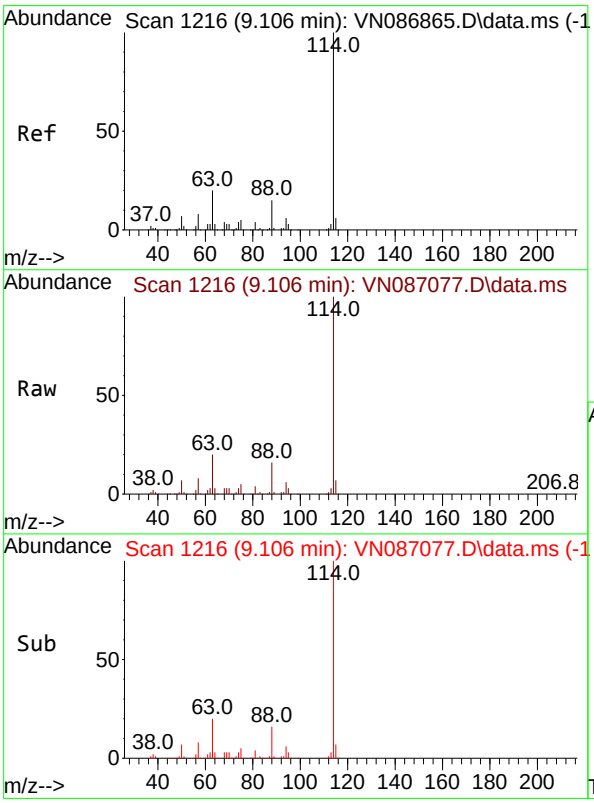
Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

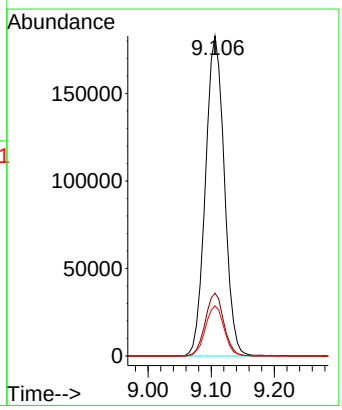
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

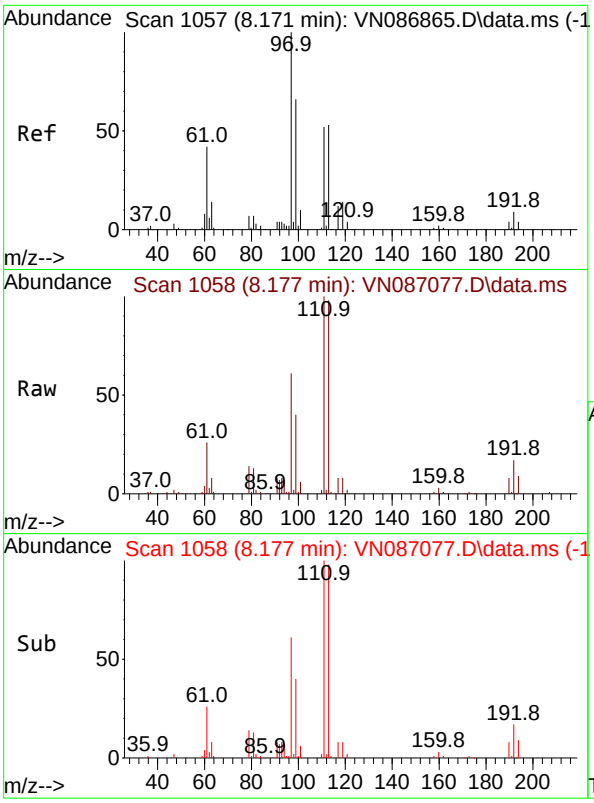


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:114 Resp: 379722

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.6
88	15.7	0.0	30.2

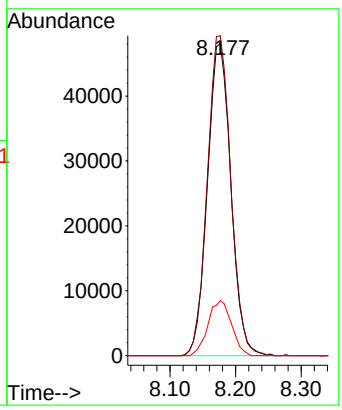




#35
Dibromofluoromethane
Concen: 52.991 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:113 Resp: 11924

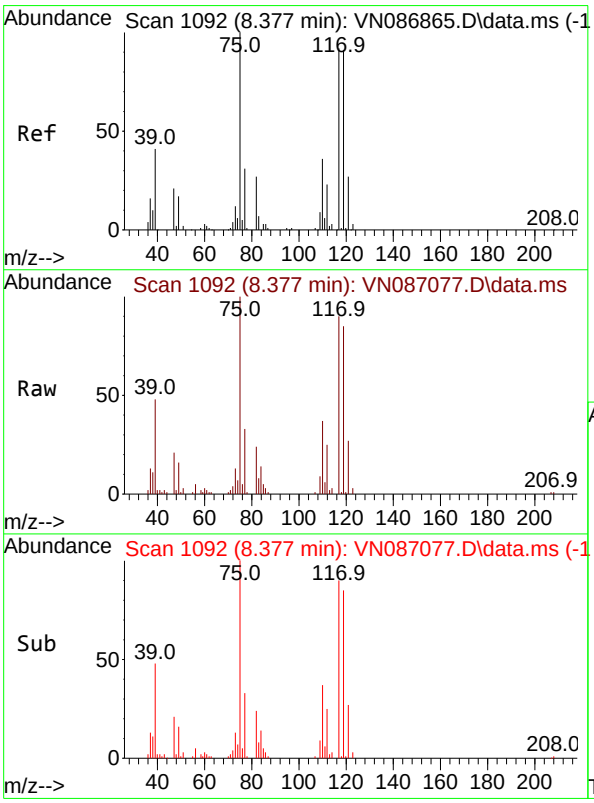
Ion	Ratio	Lower	Upper
113	100		
111	102.9	84.2	126.2
192	17.7	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

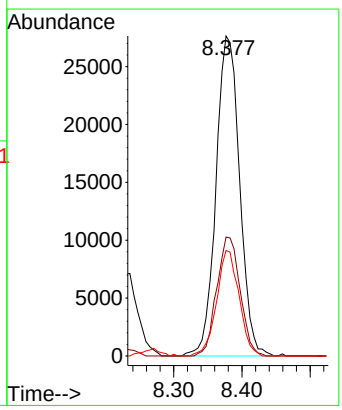
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

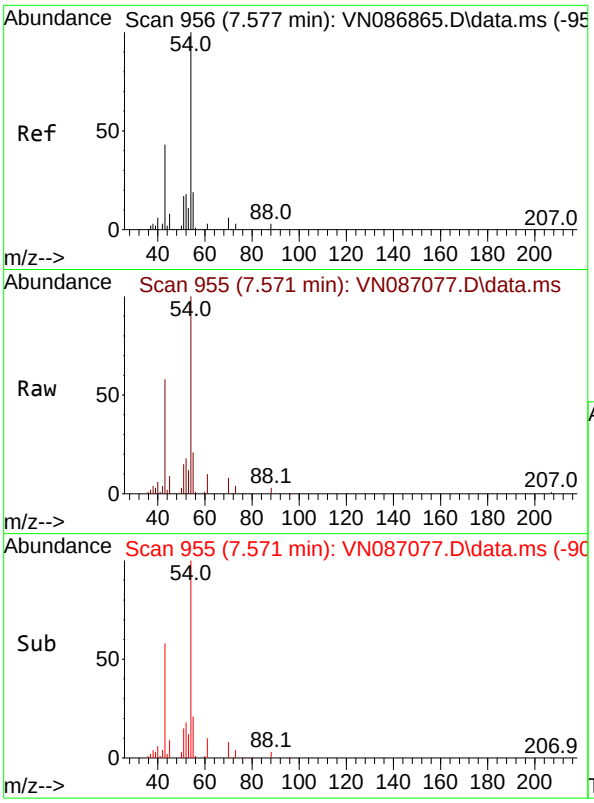


#36
1,1-Dichloropropene
Concen: 19.907 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 75 Resp: 66753

Ion	Ratio	Lower	Upper
75	100		
110	36.7	17.6	52.9
77	31.3	25.3	37.9





#37
Ethyl Acetate
Concen: 17.891 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

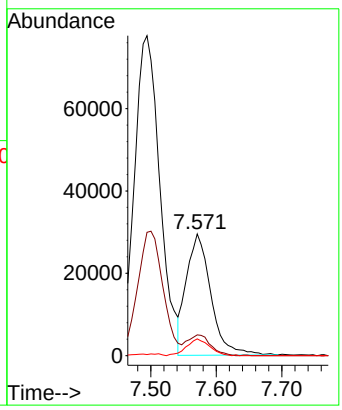
Tgt Ion: 43 Resp: 7637

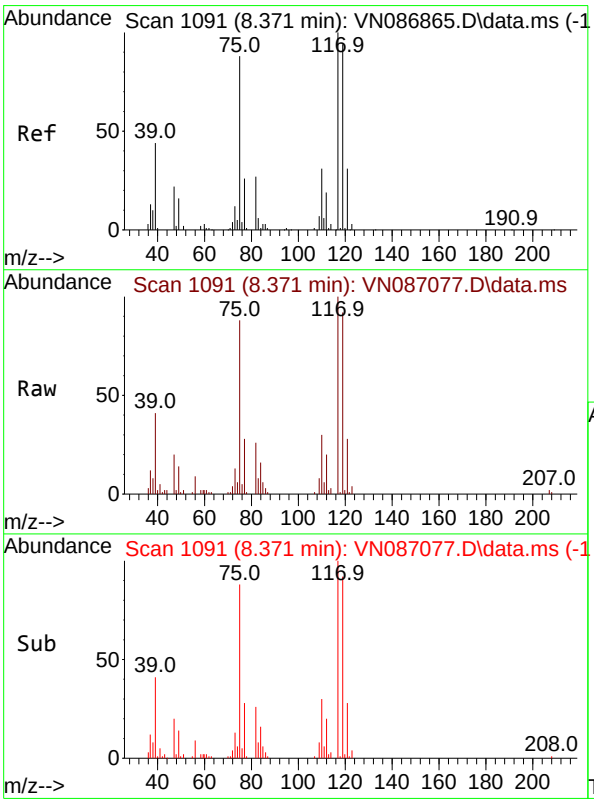
Ion	Ratio	Lower	Upper
43	100		
61	16.1	12.1	18.1
70	13.0	9.8	14.6

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

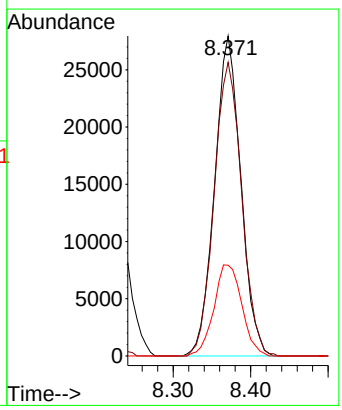


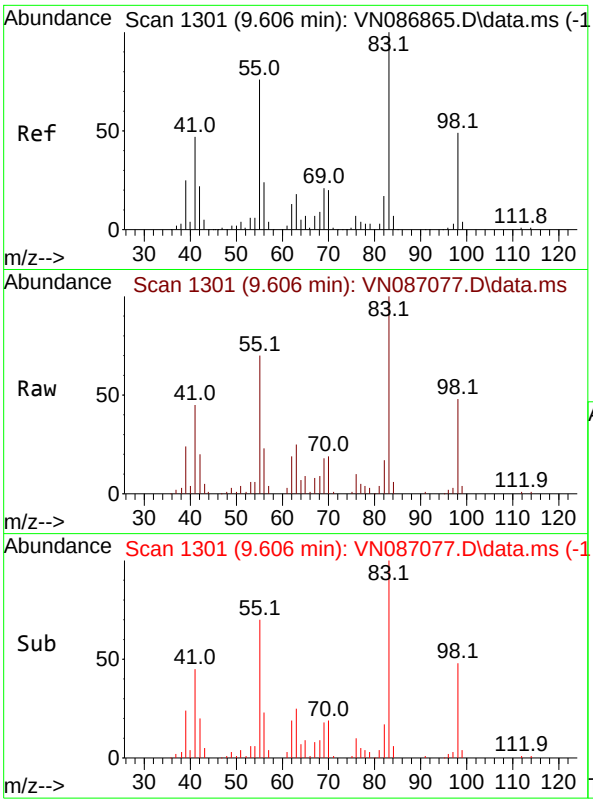


#38
Carbon Tetrachloride
Concen: 19.984 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:117 Resp: 65790

Ion	Ratio	Lower	Upper
117	100		
119	91.8	75.0	112.6
121	28.3	24.9	37.3

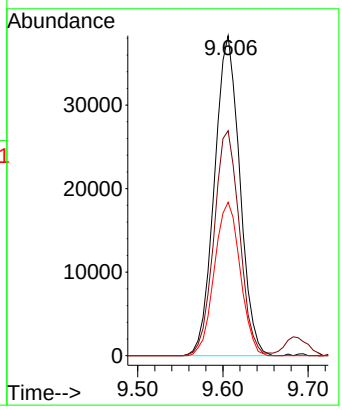




#39
Methylcyclohexane
Concen: 17.214 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 83 Resp: 7908

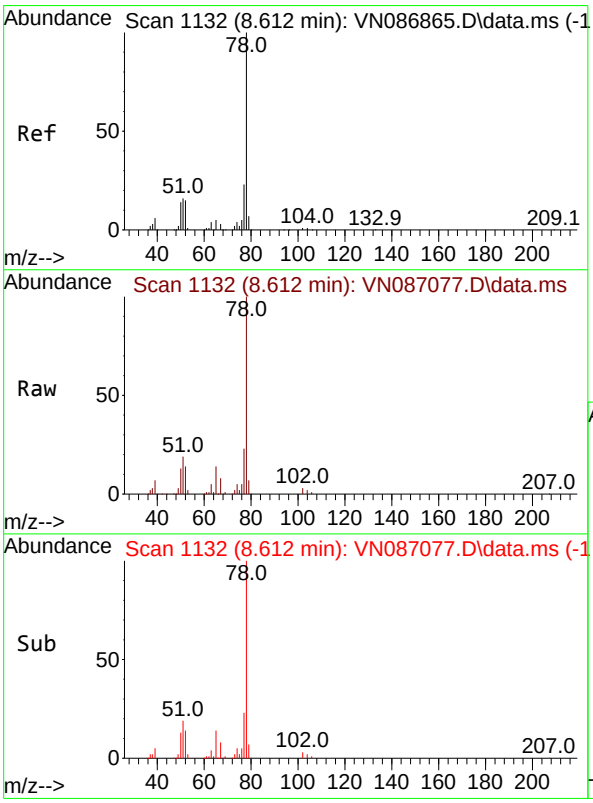
Ion	Ratio	Lower	Upper
83	100		
55	70.3	61.0	91.6
98	48.0	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

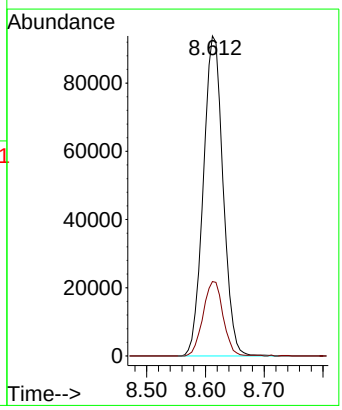
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

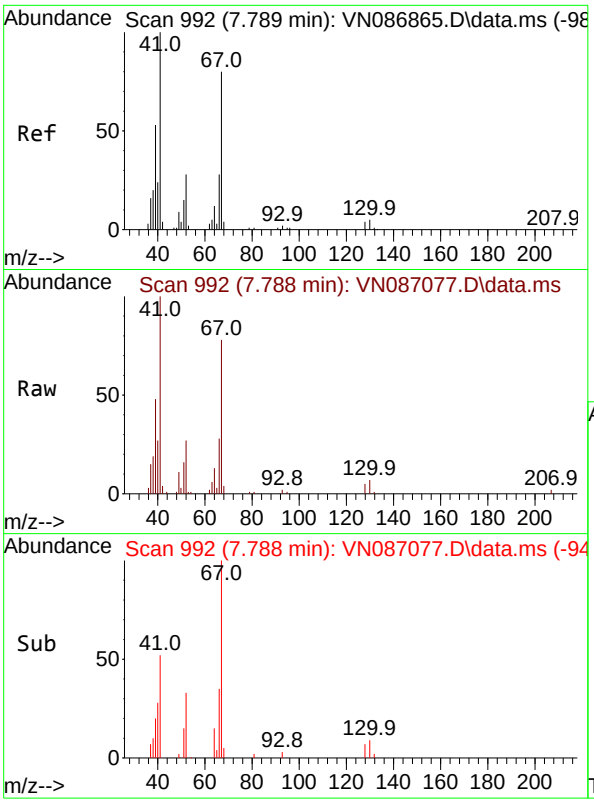


#40
Benzene
Concen: 19.886 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 78 Resp: 218047

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.7	28.1

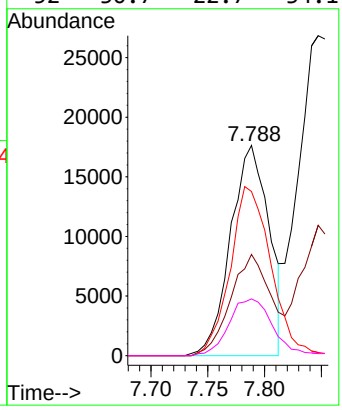




#41
Methacrylonitrile
Concen: 17.322 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 41 Resp: 4152

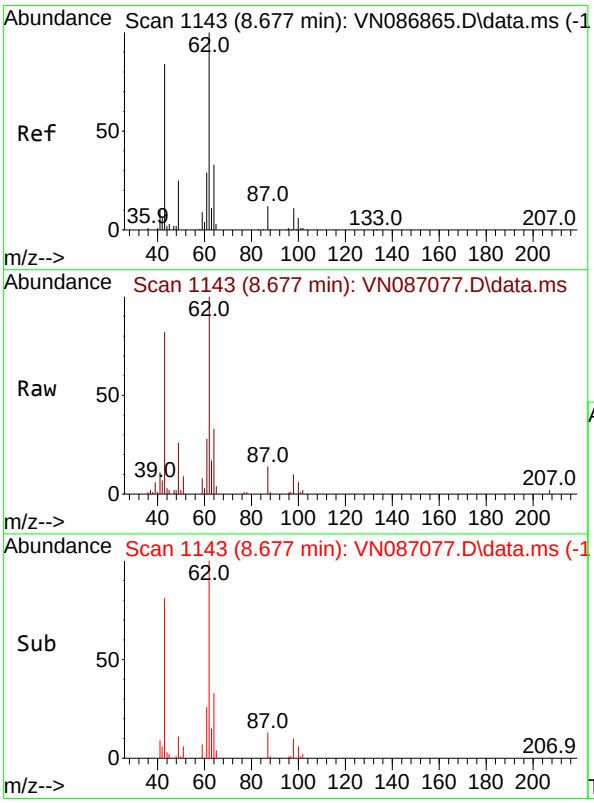
Ion	Ratio	Lower	Upper
41	100		
39	51.4	41.2	61.8
67	85.3	61.4	92.2
52	30.7	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

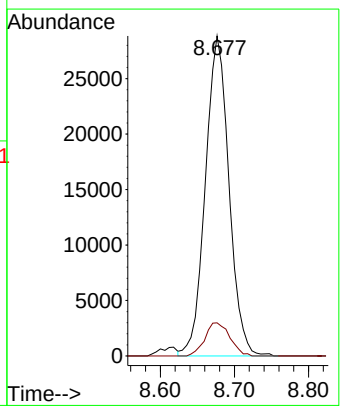
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

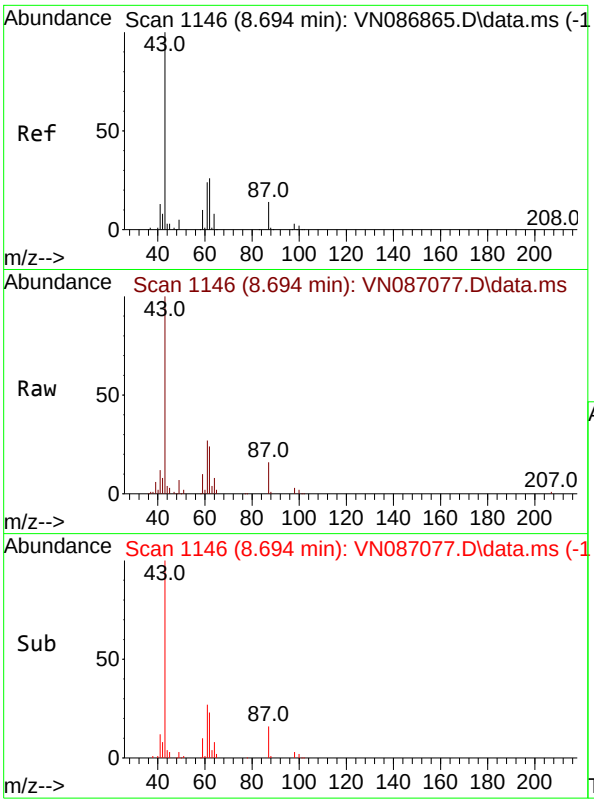


#42
1,2-Dichloroethane
Concen: 19.212 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 62 Resp: 63897

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	21.2





#43
Isopropyl Acetate
Concen: 17.757 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

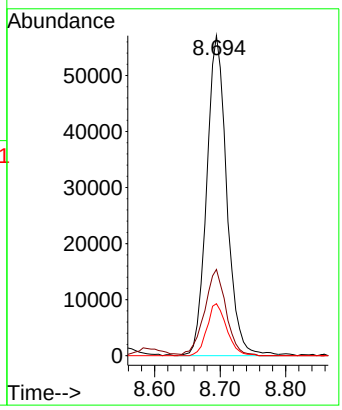
Tgt Ion: 43 Resp: 12165

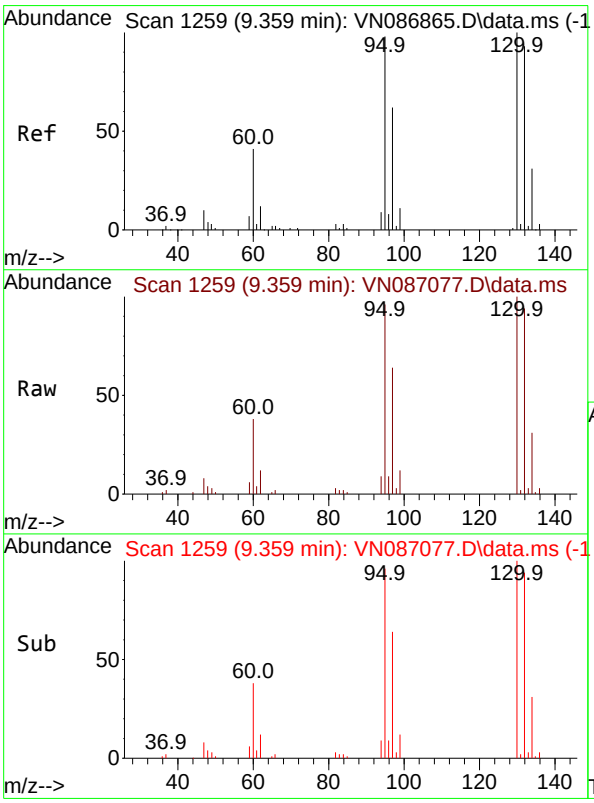
Ion	Ratio	Lower	Upper
43	100		
61	29.0	22.1	33.1
87	15.9	11.8	17.6

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

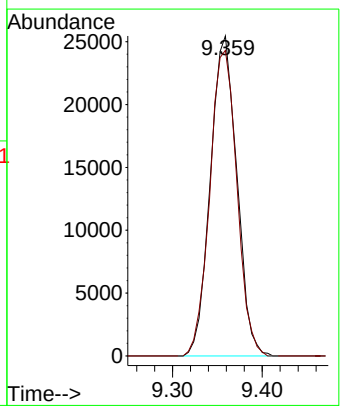


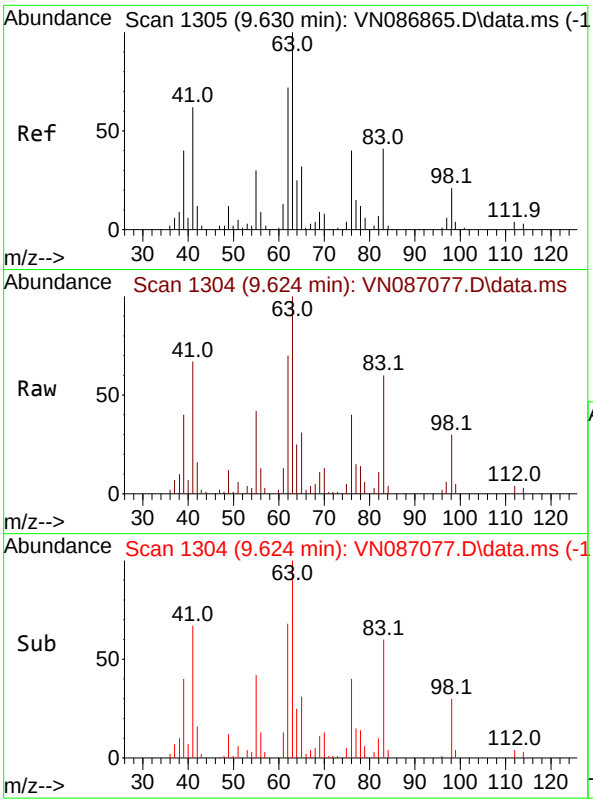


#44
Trichloroethene
Concen: 20.074 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:130 Resp: 52194

Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	196.2

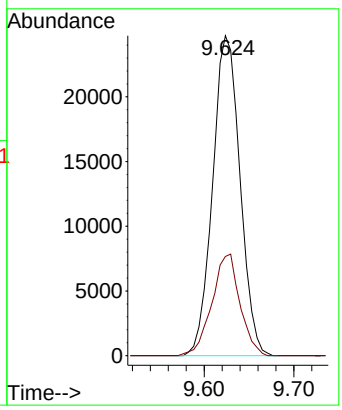




#45
1,2-Dichloropropane
Concen: 19.622 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 63 Resp: 5234

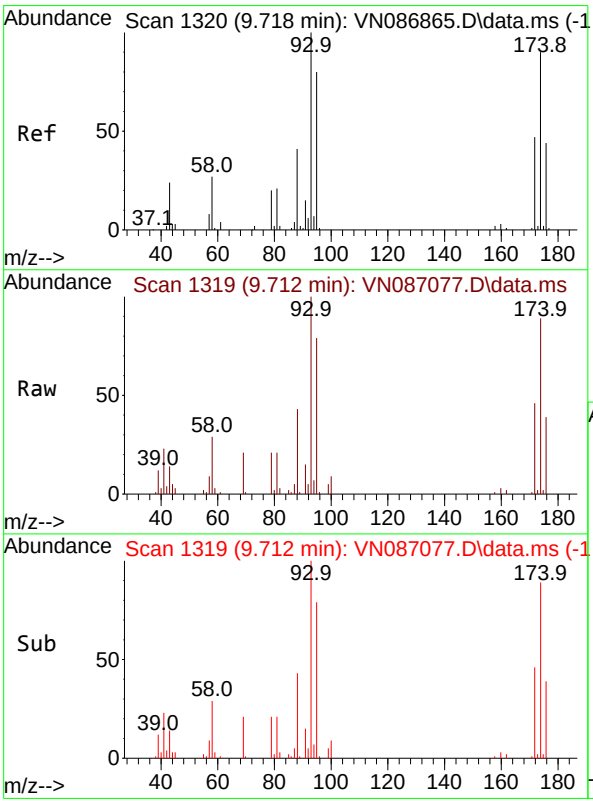
Ion	Ratio	Lower	Upper
63	100		
65	31.0	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations APPROVED

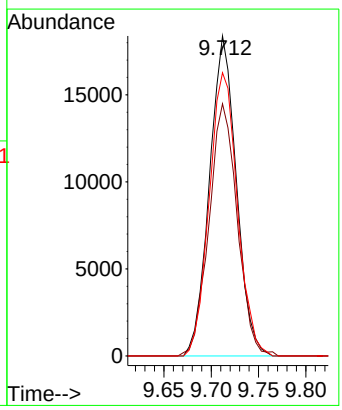
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

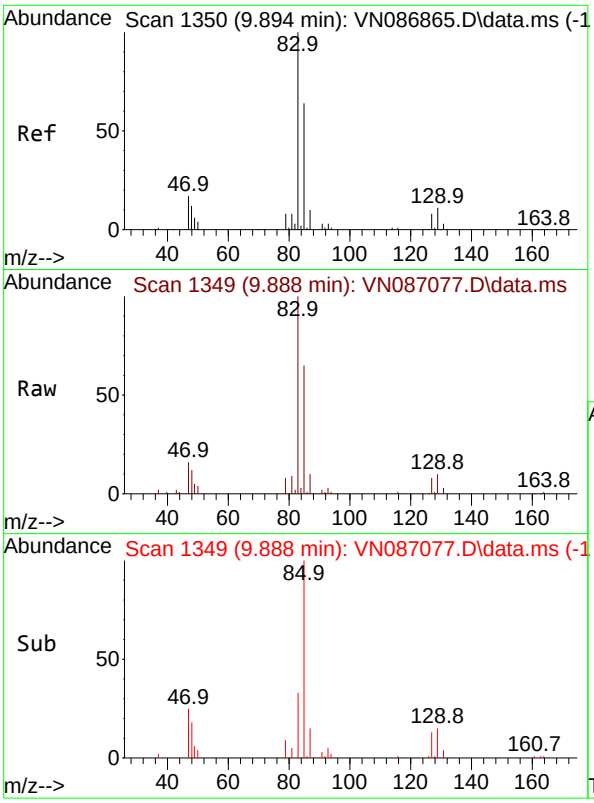


#46
Dibromomethane
Concen: 20.468 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 93 Resp: 36267

Ion	Ratio	Lower	Upper
93	100		
95	82.6	67.1	100.7
174	93.1	74.2	111.4

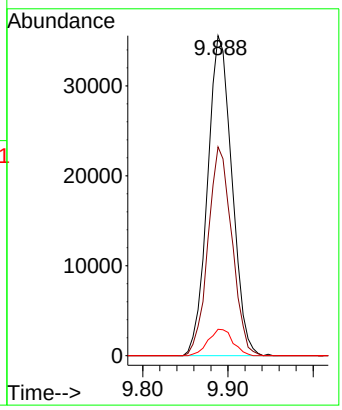




#47
Bromodichloromethane
Concen: 19.391 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 83 Resp: 7069

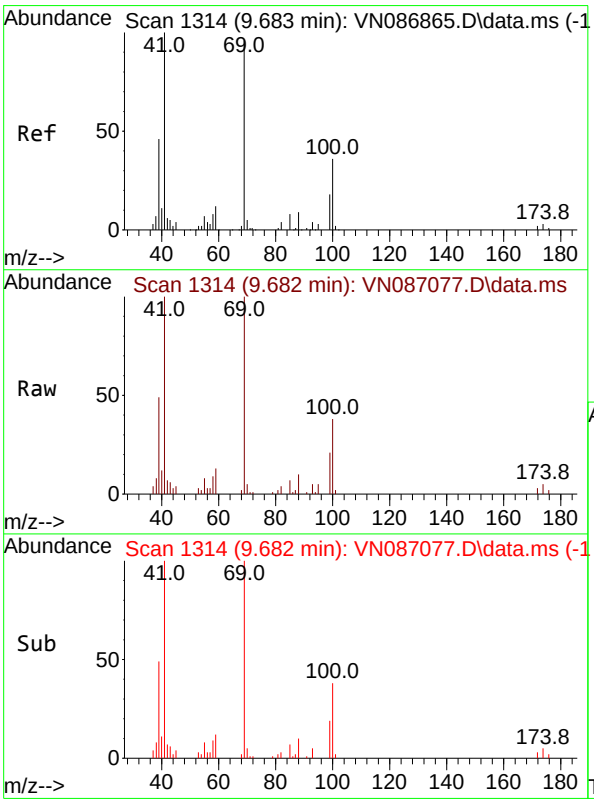
Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.9	76.3
127	8.3	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

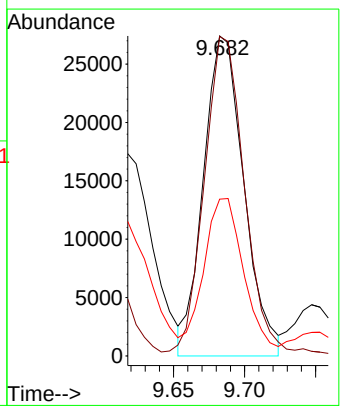
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

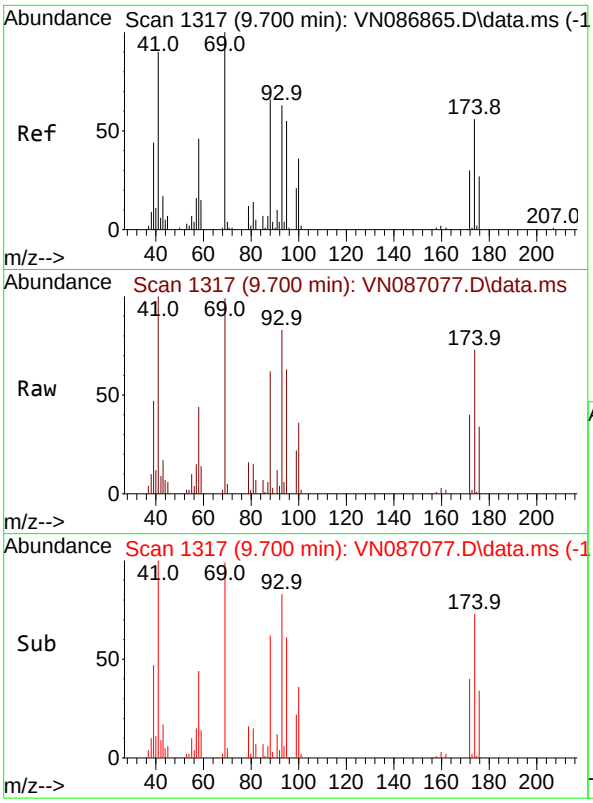


#48
Methyl methacrylate
Concen: 17.208 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 41 Resp: 54263

Ion	Ratio	Lower	Upper
41	100		
69	100.5	74.6	112.0
39	49.8	40.2	60.4

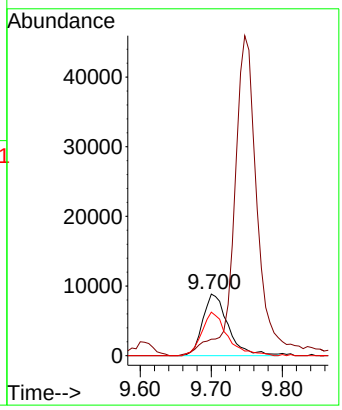




#49
1,4-Dioxane
Concen: 383.882 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 88 Resp: 2202

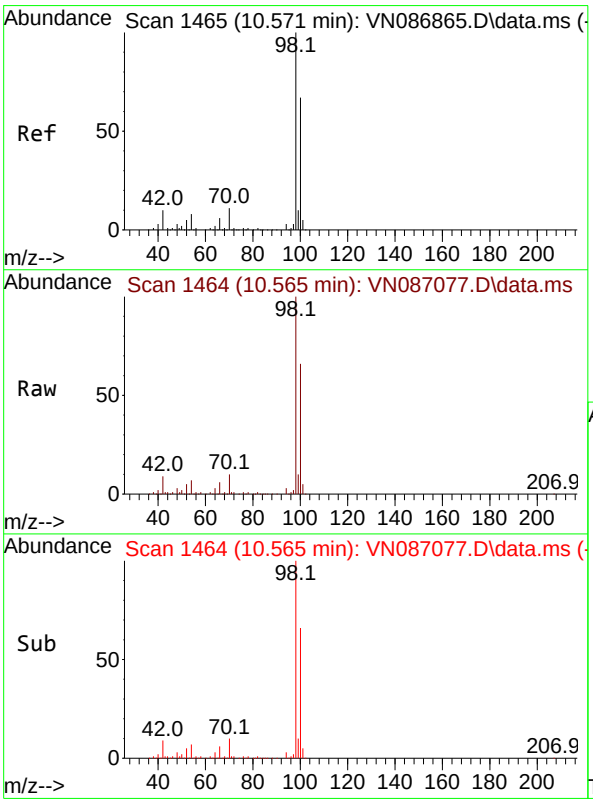
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	70.8	57.7	86.5



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

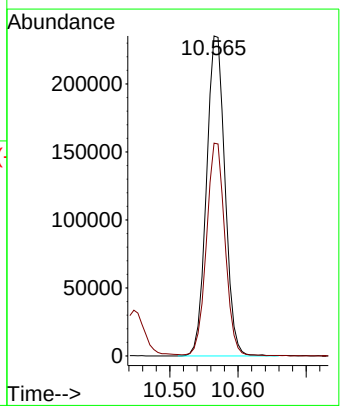
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

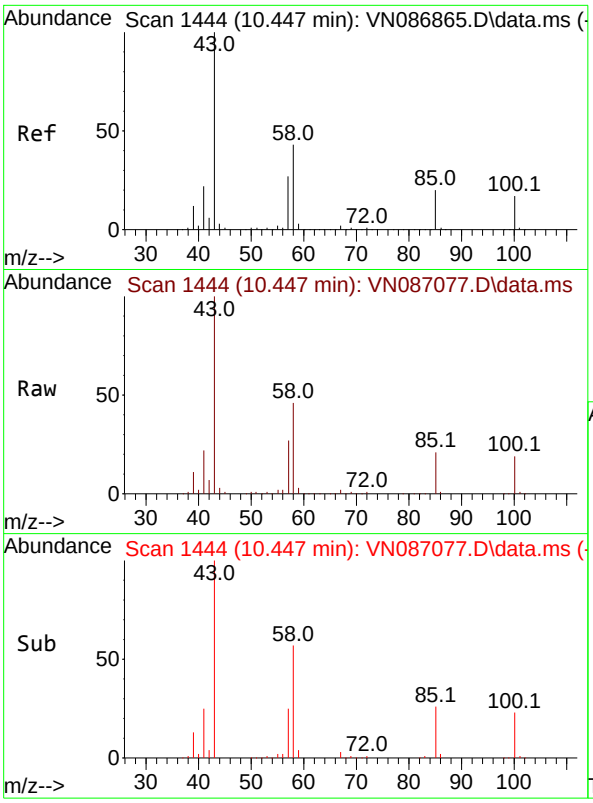


#50
Toluene-d8
Concen: 49.796 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 98 Resp: 443603

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.4	80.0

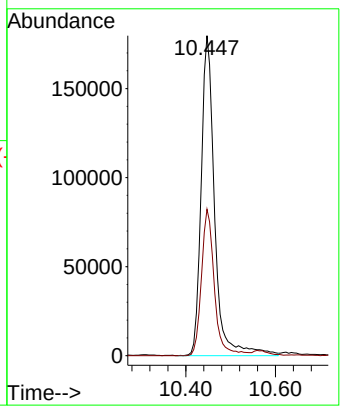




#51
4-Methyl-2-Pentanone
Concen: 90.991 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 43 Resp: 37529

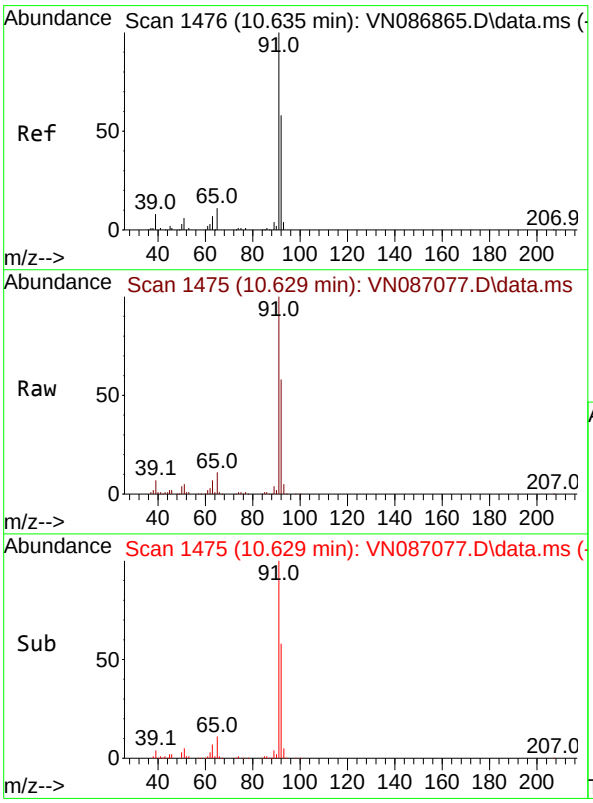
Ion	Ratio	Lower	Upper
43	100		
58	43.8	34.2	51.4



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

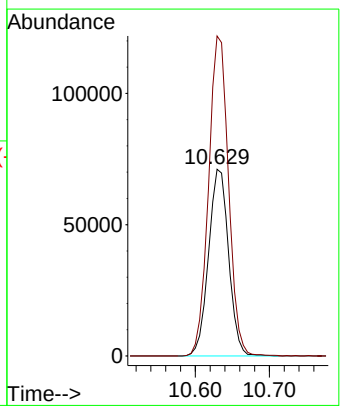
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

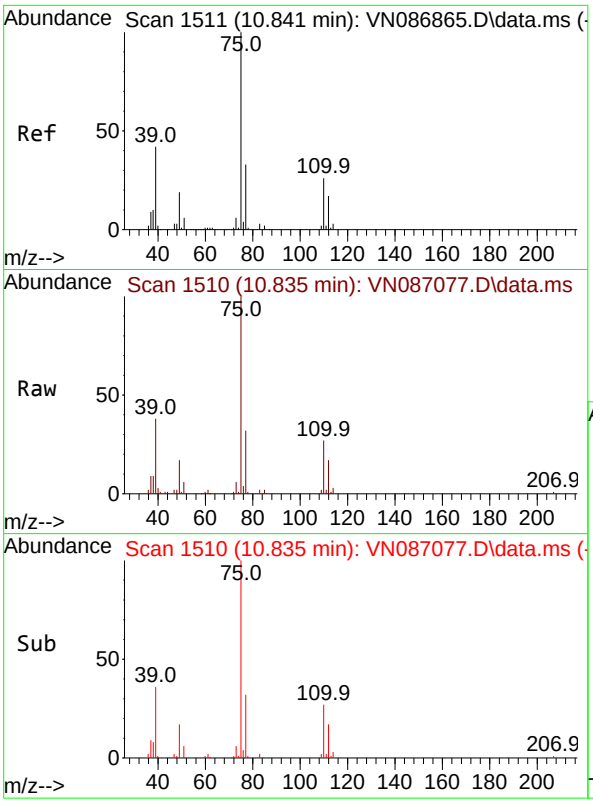


#52
Toluene
Concen: 19.954 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 92 Resp: 133714

Ion	Ratio	Lower	Upper
92	100		
91	170.2	136.5	204.7

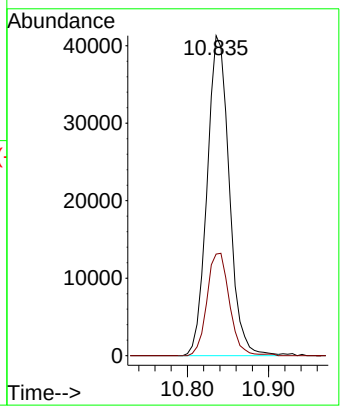




#53
t-1,3-Dichloropropene
Concen: 19.170 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 75 Resp: 7814

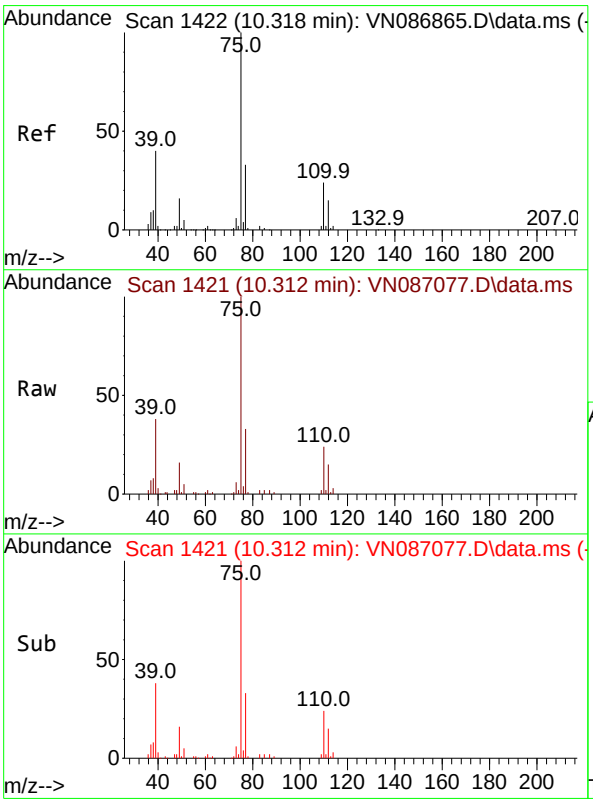
Ion	Ratio	Lower	Upper
75	100		
77	31.7	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

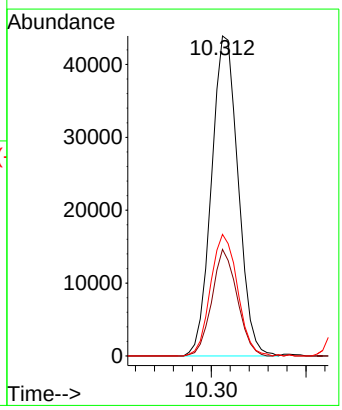
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

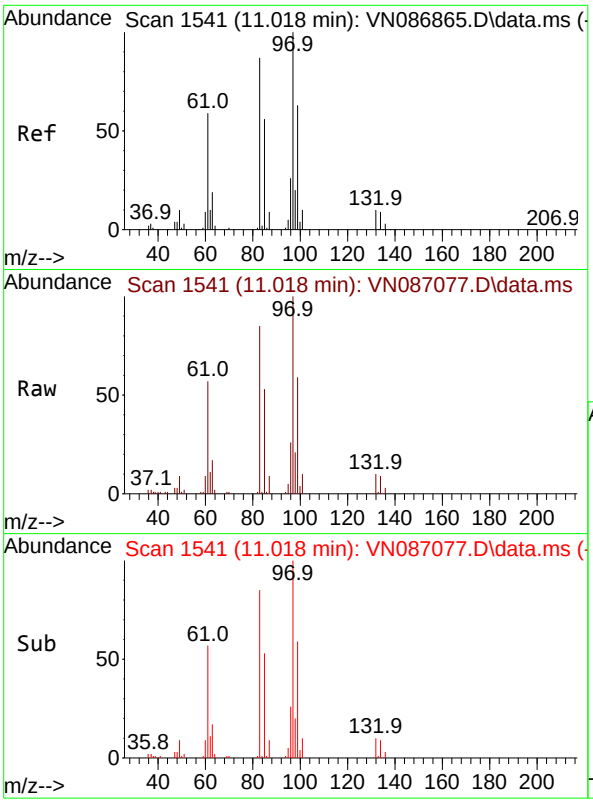


#54
cis-1,3-Dichloropropene
Concen: 19.682 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 75 Resp: 85848

Ion	Ratio	Lower	Upper
75	100		
77	33.3	26.2	39.4
39	38.0	32.3	48.5

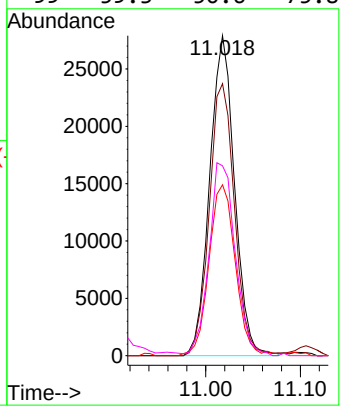




#55
1,1,2-Trichloroethane
Concen: 19.709 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 97 Resp: 5081

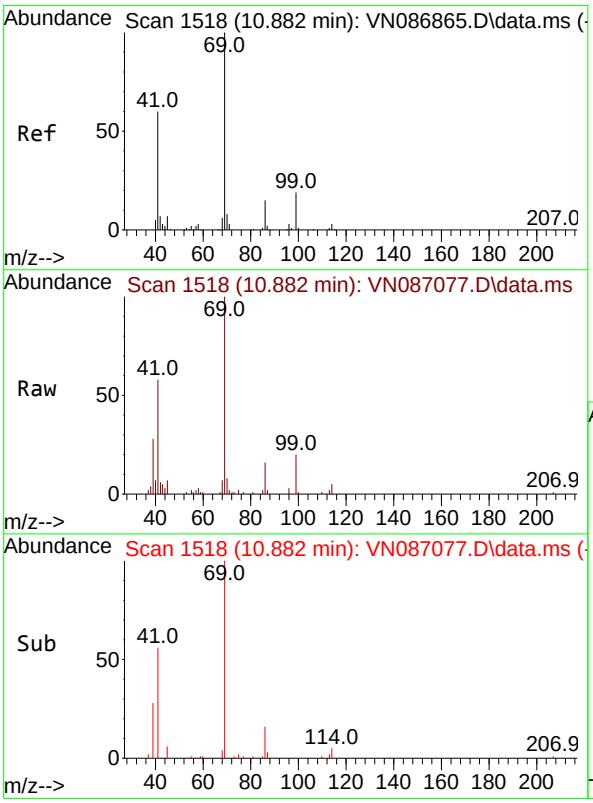
Ion	Ratio	Lower	Upper
97	100		
83	85.0	69.7	104.5
85	53.4	45.1	67.7
99	59.3	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations APPROVED

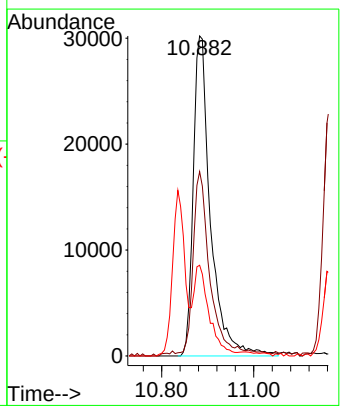
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

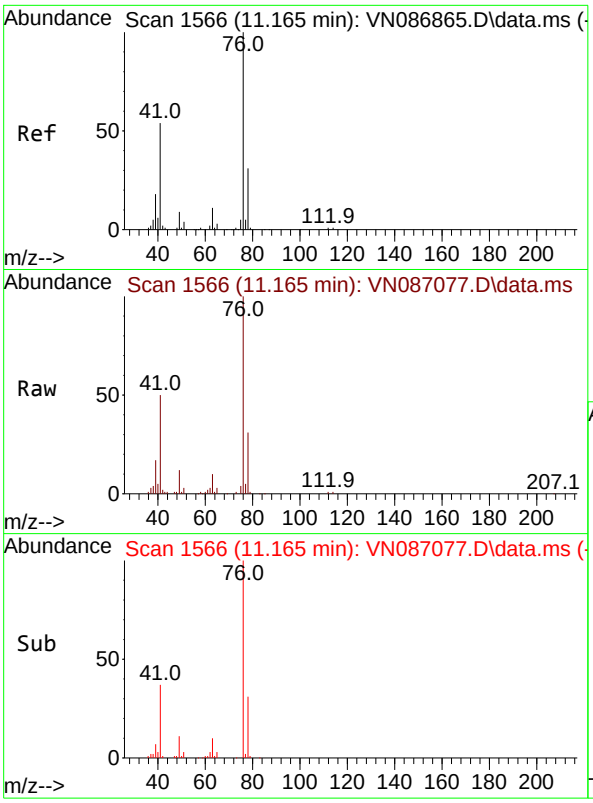


#56
Ethyl methacrylate
Concen: 19.138 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 69 Resp: 78597

Ion	Ratio	Lower	Upper
69	100		
41	53.5	47.2	70.8
39	22.9	23.0	34.6#

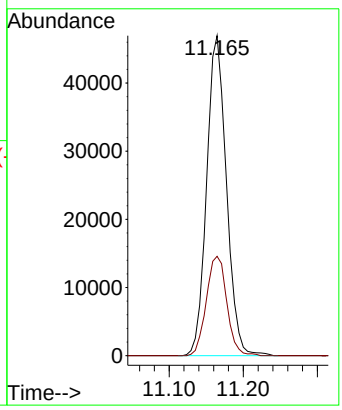




#57
1,3-Dichloropropane
Concen: 19.433 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 76 Resp: 8692

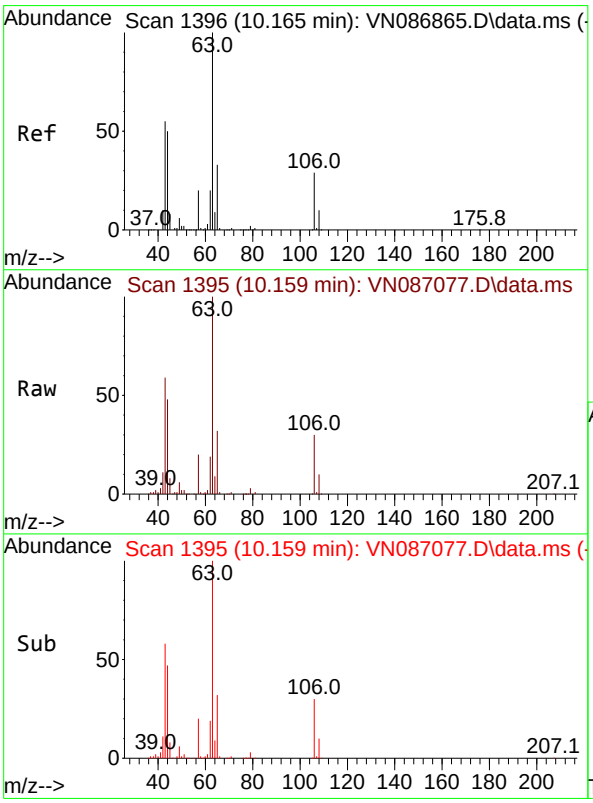
Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

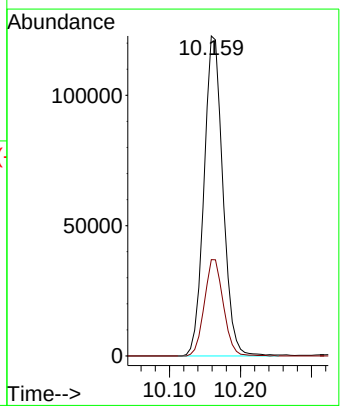
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

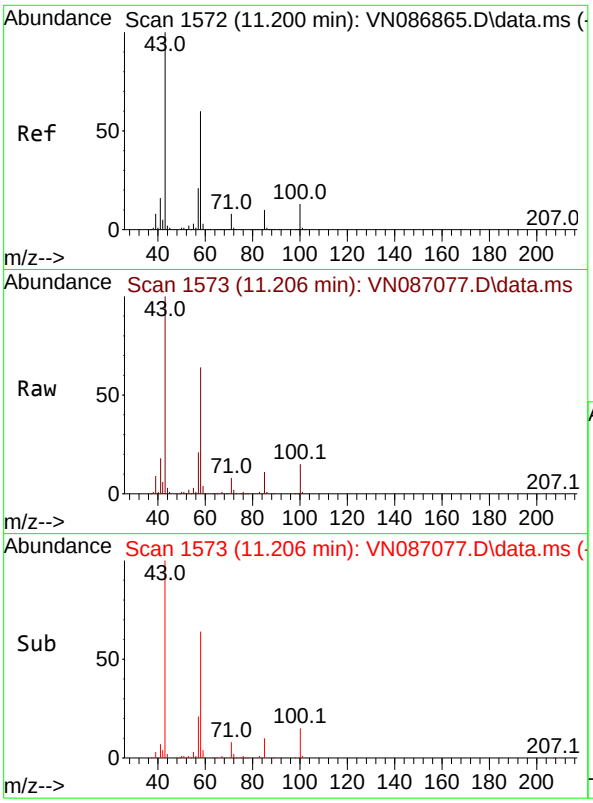


#58
2-Chloroethyl Vinyl ether
Concen: 92.795 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 63 Resp: 227303

Ion	Ratio	Lower	Upper
63	100		
106	30.3	23.0	34.6





#59
2-Hexanone
Concen: 83.880 ug/l
RT: 11.206 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

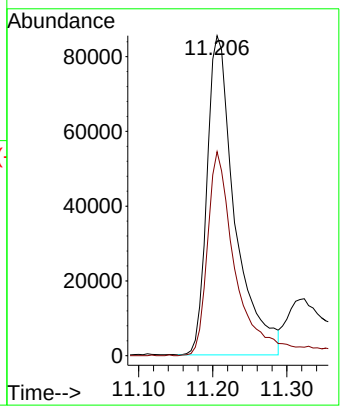
Tgt Ion: 43 Resp: 22284

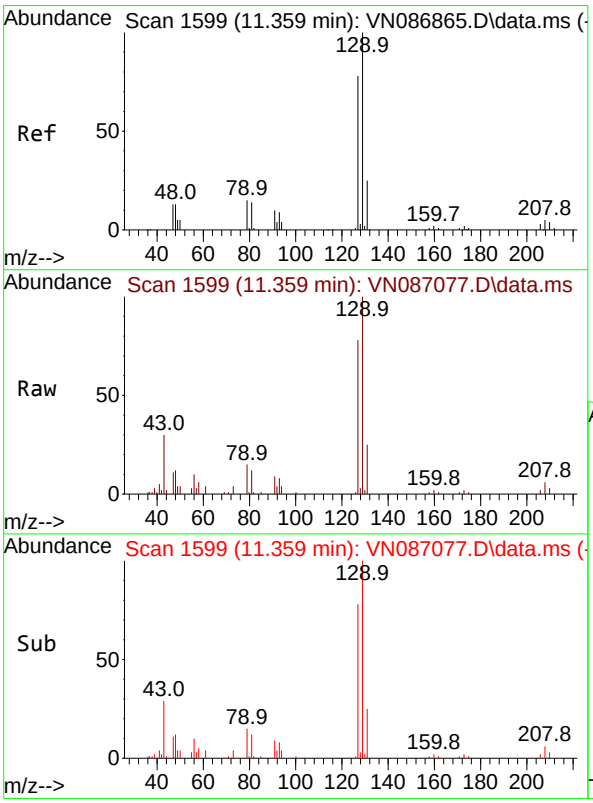
Ion	Ratio	Lower	Upper
43	100		
58	67.7	30.4	91.3

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

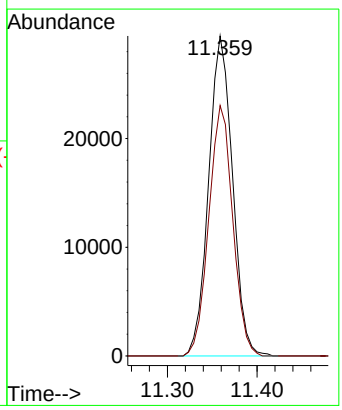


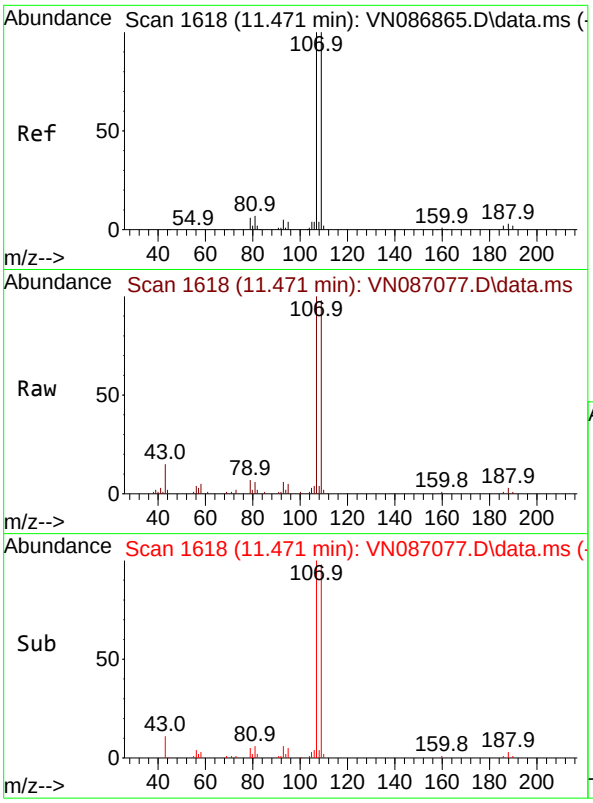


#60
Dibromochloromethane
Concen: 20.267 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:129 Resp: 54446

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.6	115.8

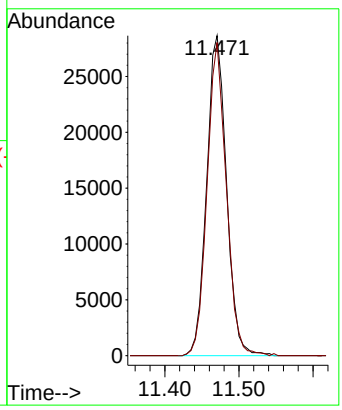




#61
1,2-Dibromoethane
Concen: 20.177 ug/l
RT: 11.471 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:107 Resp: 5332(

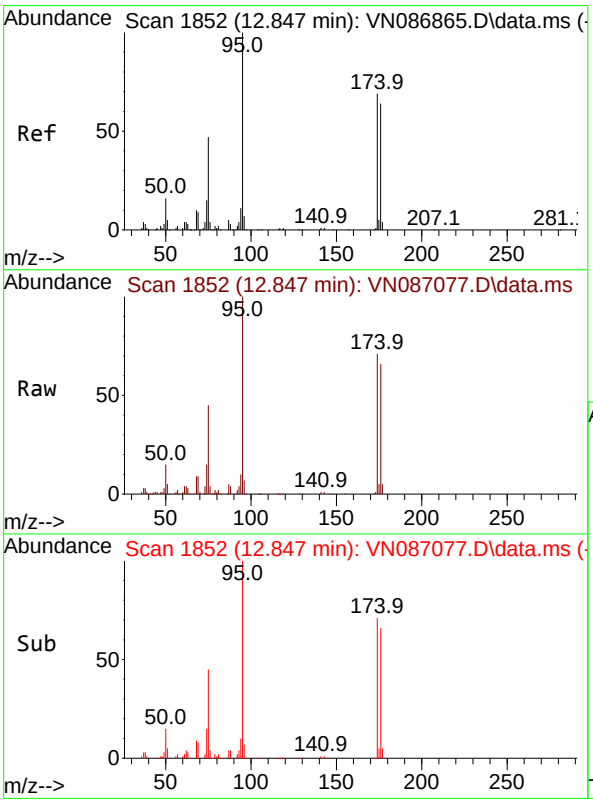
Ion	Ratio	Lower	Upper
107	100		
109	94.9	76.3	114.5



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

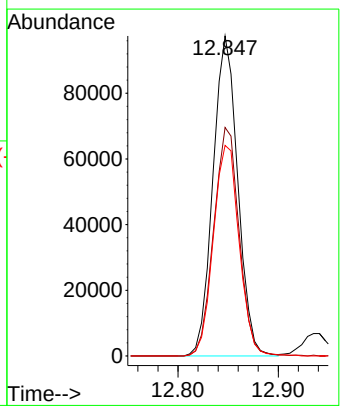
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

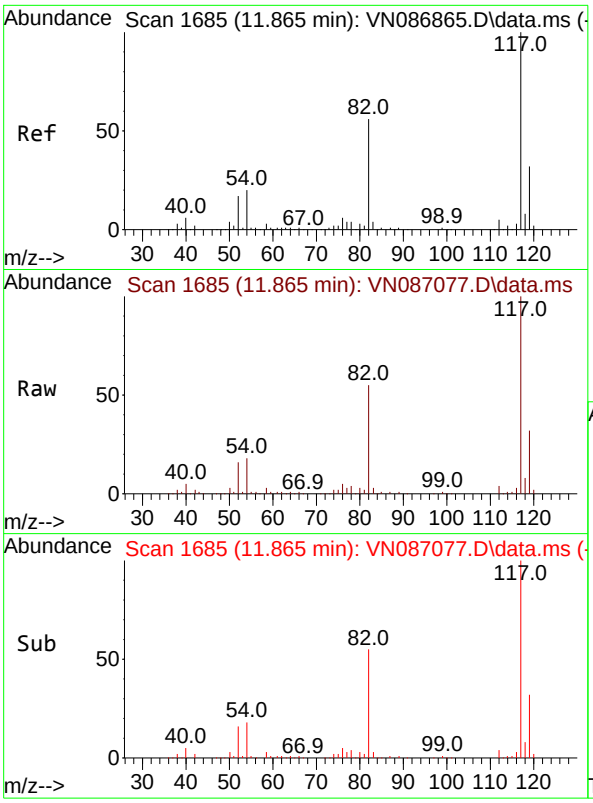


#62
4-Bromofluorobenzene
Concen: 50.428 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 95 Resp: 166905

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	141.8
176	68.8	0.0	132.6

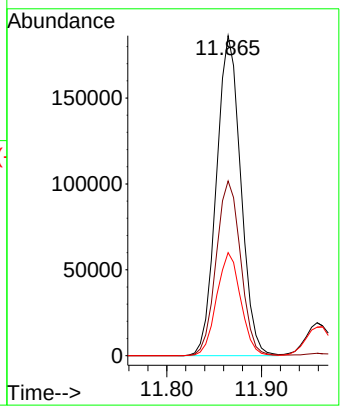




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:117 Resp: 33312

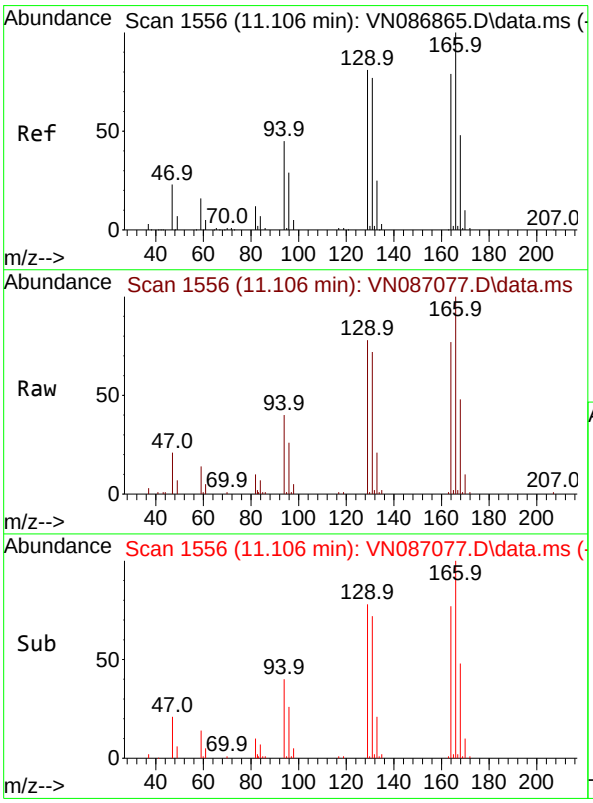
Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.6	67.0
119	32.2	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

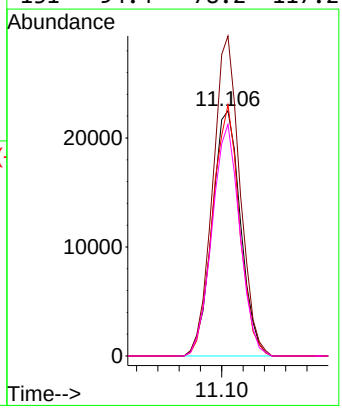
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

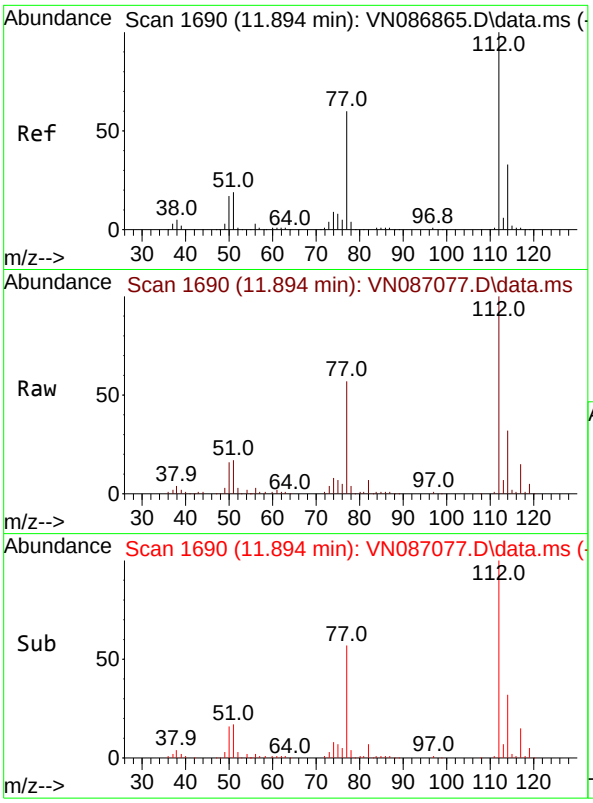


#64
Tetrachloroethene
Concen: 19.753 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:164 Resp: 41643

Ion	Ratio	Lower	Upper
164	100		
166	130.5	101.8	152.8
129	102.4	83.0	124.4
131	94.4	78.2	117.2

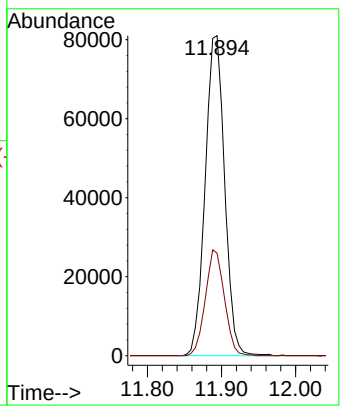




#65
Chlorobenzene
Concen: 20.133 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:112 Resp: 14792

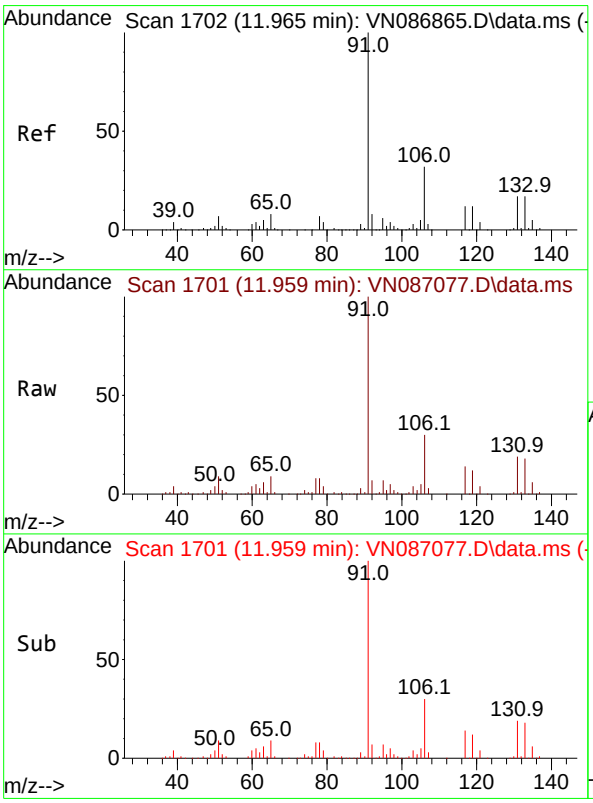
Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

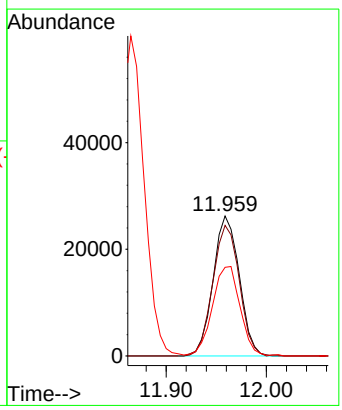
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

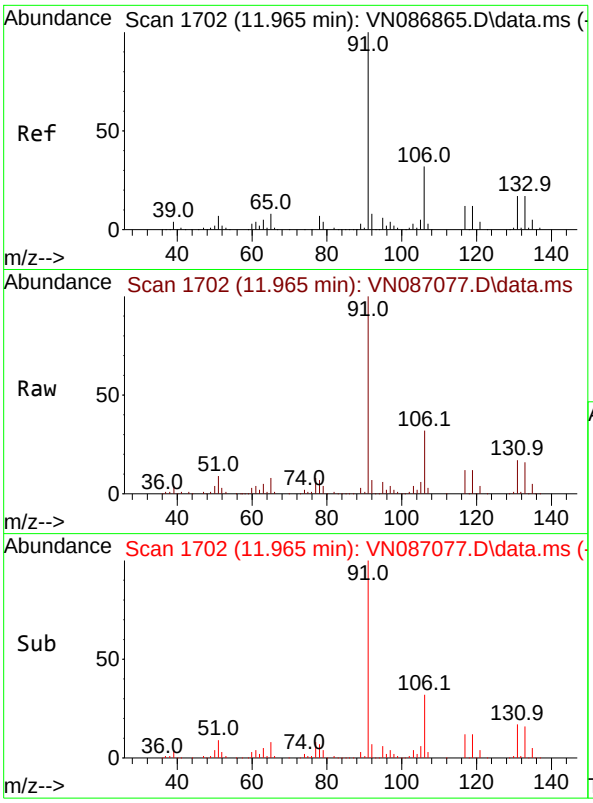


#66
1,1,1,2-Tetrachloroethane
Concen: 20.142 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:131 Resp: 47569

Ion	Ratio	Lower	Upper
131	100		
133	94.8	48.3	144.8
119	67.8	34.0	101.8

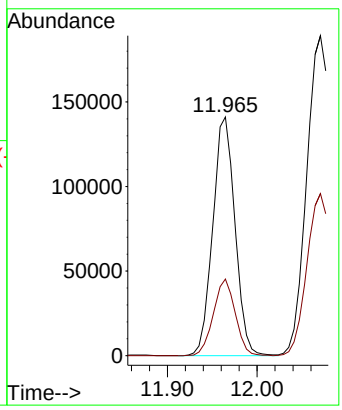




#67
Ethyl Benzene
Concen: 19.171 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 91 Resp: 24261

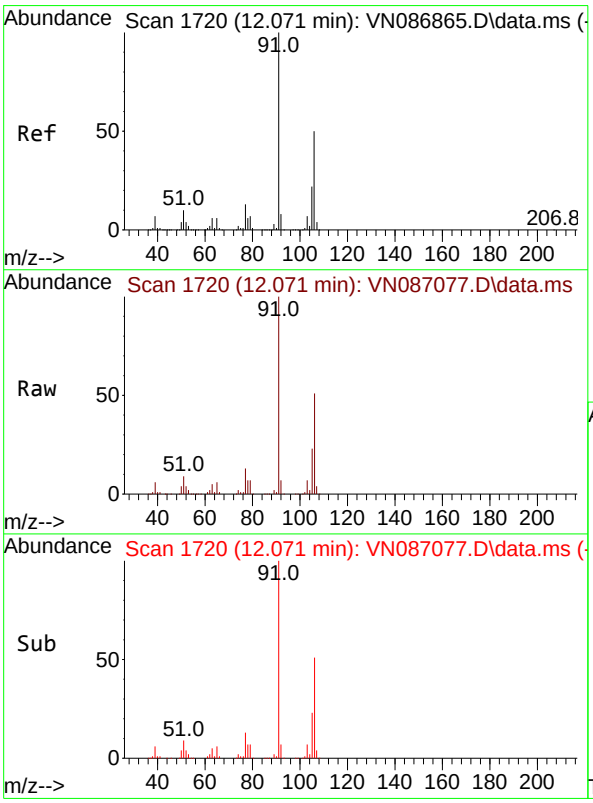
Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

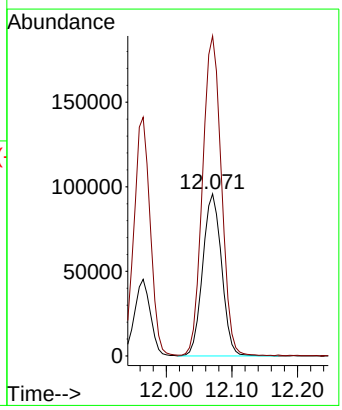
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

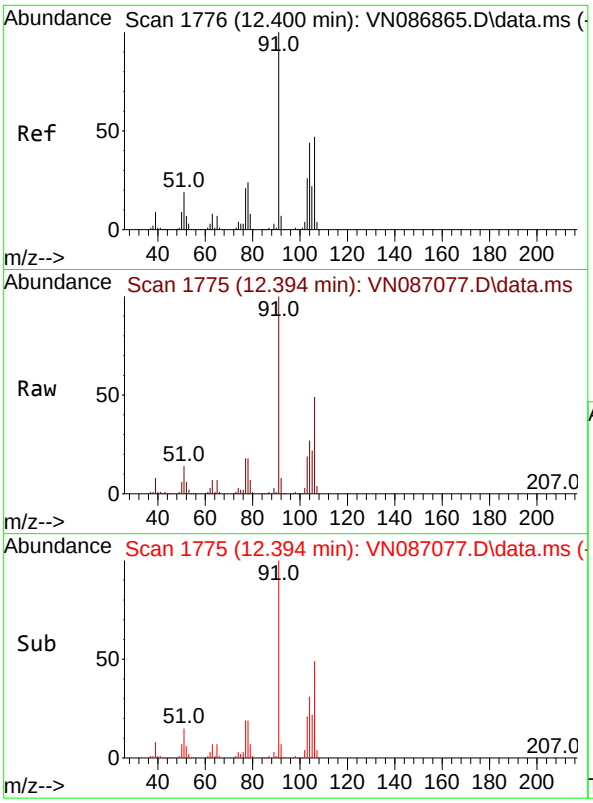


#68
m/p-Xylenes
Concen: 39.672 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:106 Resp: 192188

Ion	Ratio	Lower	Upper
106	100		
91	197.0	159.4	239.0

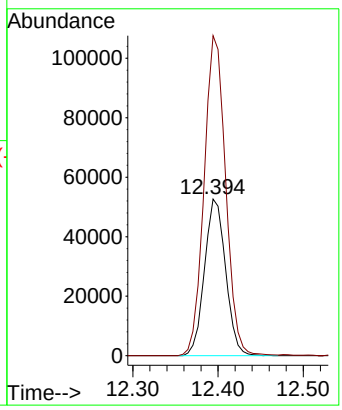




#69
o-Xylene
Concen: 19.562 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:106 Resp: 9076

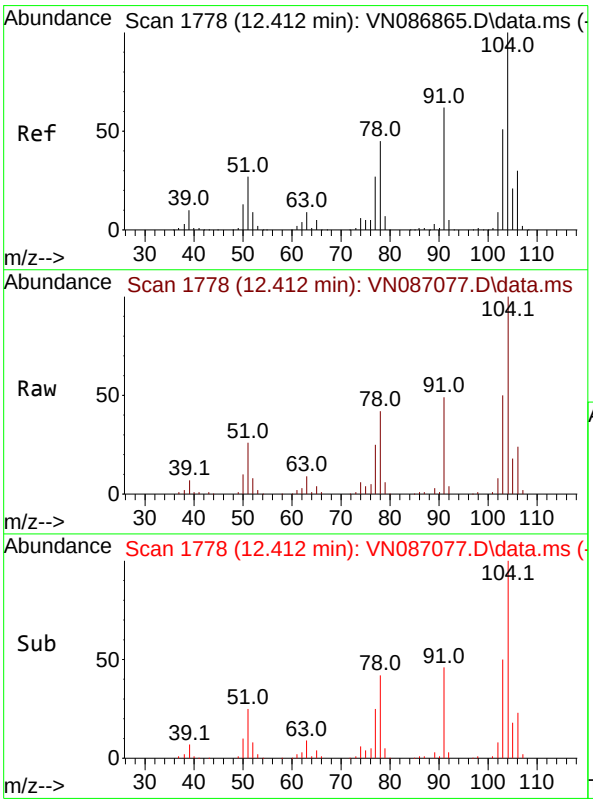
Ion	Ratio	Lower	Upper
106	100		
91	208.4	106.1	318.1



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

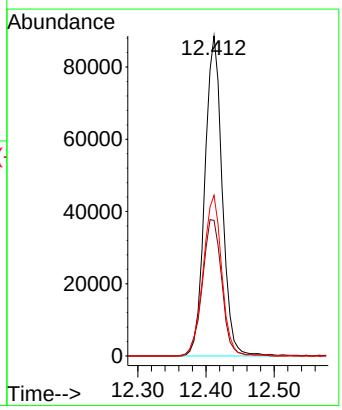
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

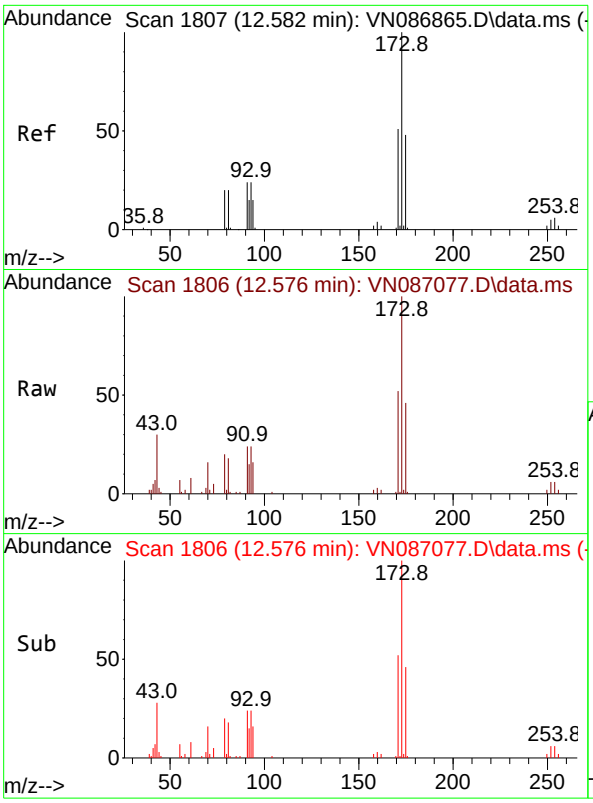


#70
Styrene
Concen: 19.754 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:104 Resp: 156838

Ion	Ratio	Lower	Upper
104	100		
78	47.7	38.5	57.7
103	53.7	43.1	64.7

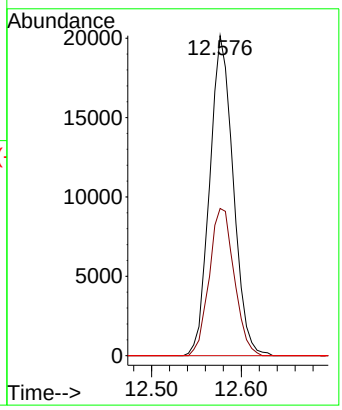




#71
Bromoform
Concen: 20.995 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:173 Resp: 3674

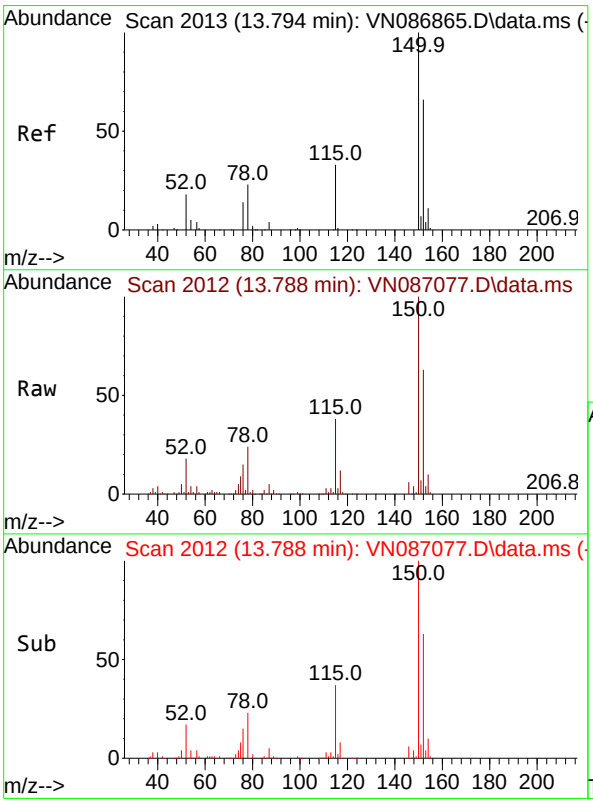
Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations APPROVED

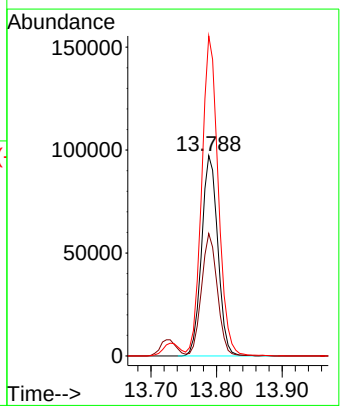
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

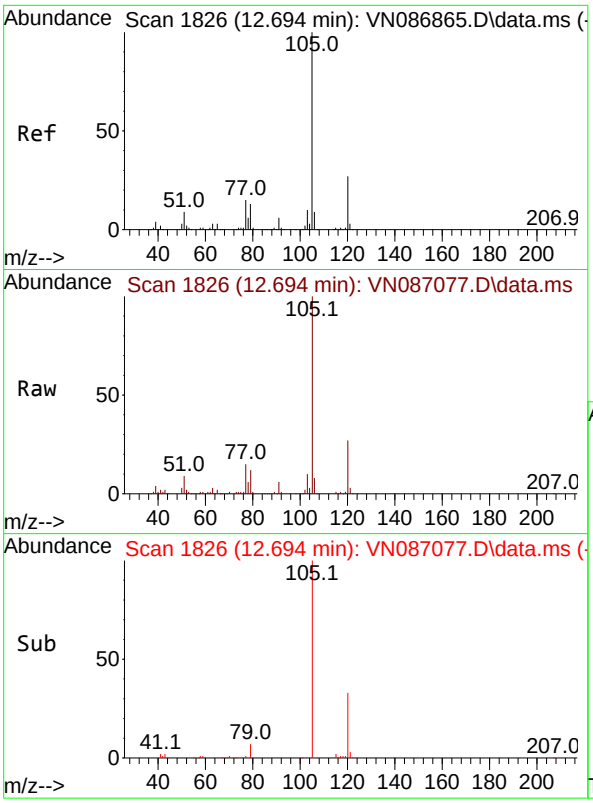


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:152 Resp: 167760

Ion	Ratio	Lower	Upper
152	100		
115	59.8	30.1	90.5
150	162.6	0.0	345.0

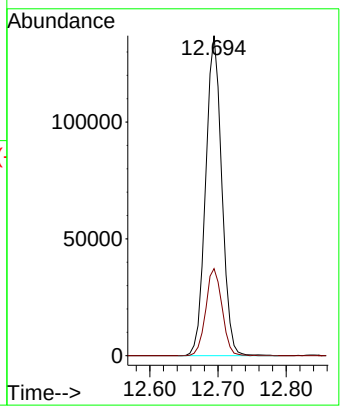




#73
Isopropylbenzene
Concen: 18.418 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:105 Resp: 22509

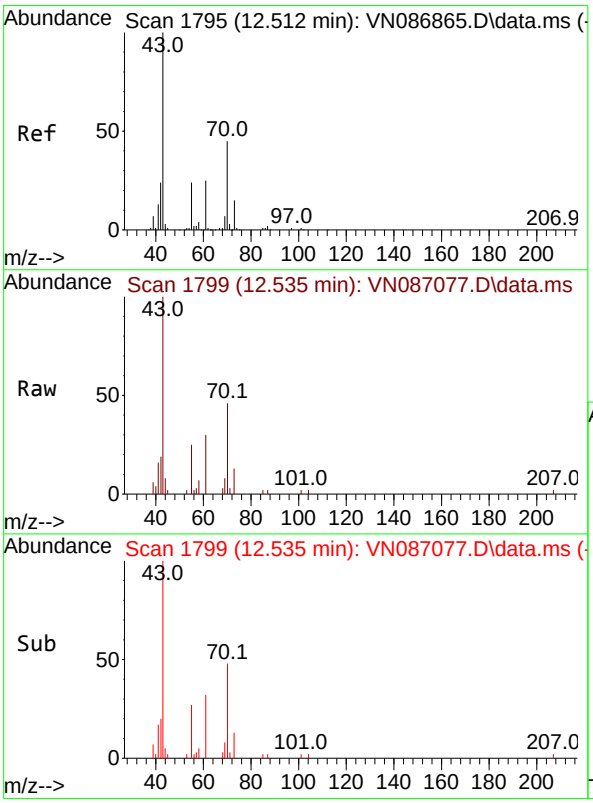
Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations APPROVED

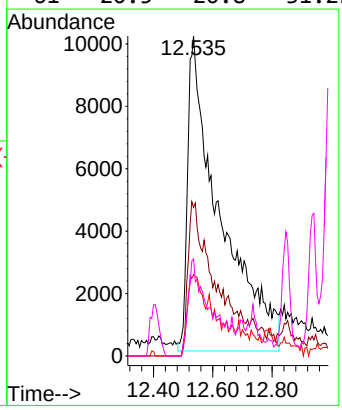
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

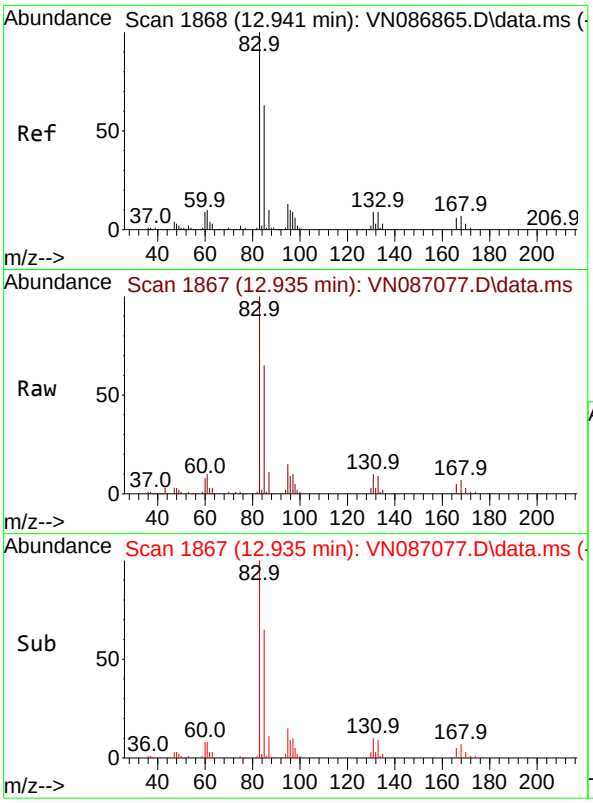


#74
N-amyl acetate
Concen: 17.834 ug/l m
RT: 12.535 min Scan# 1799
Delta R.T. 0.023 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 43 Resp: 76165

Ion	Ratio	Lower	Upper
43	100		
70	18.6	37.6	56.4#
55	12.1	19.0	28.6#
61	20.5	20.8	31.2#

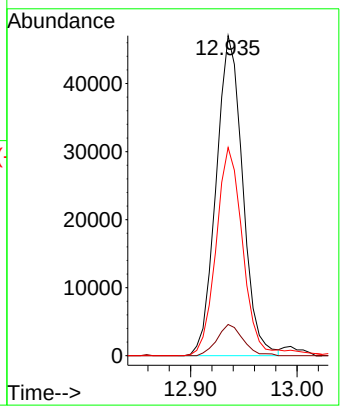




#75
1,1,2,2-Tetrachloroethane
Concen: 19.609 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 83 Resp: 8118

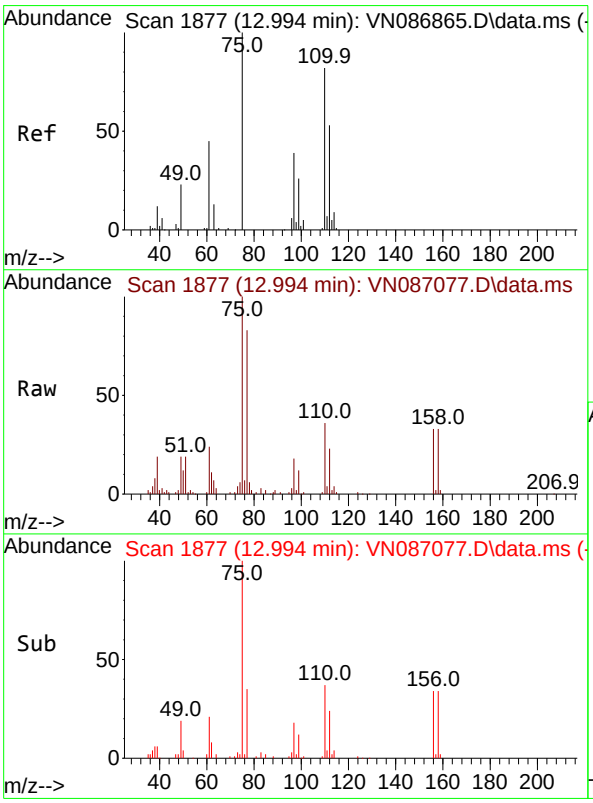
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.9	14.7
85	66.4	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

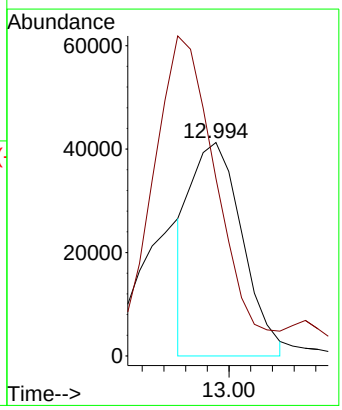
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

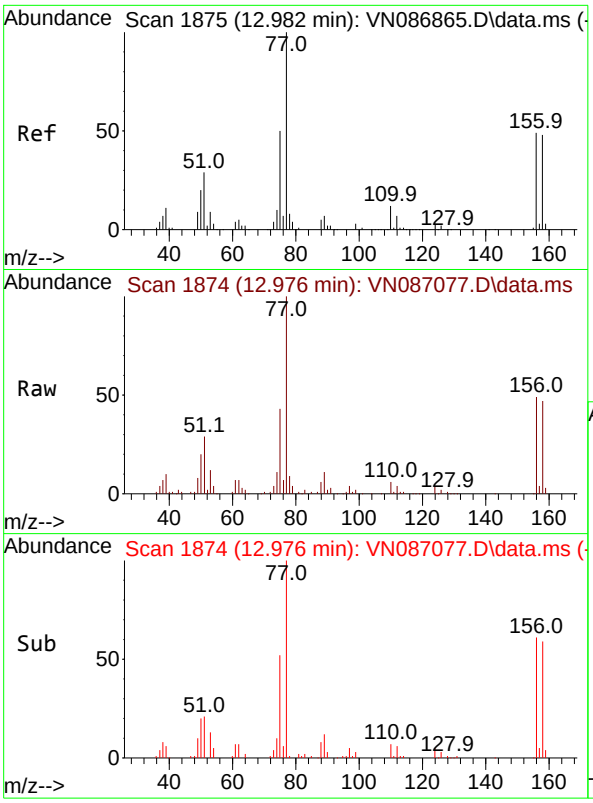


#76
1,2,3-Trichloropropane
Concen: 17.191 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 75 Resp: 68554

Ion	Ratio	Lower	Upper
75	100		
77	188.2	79.3	237.9

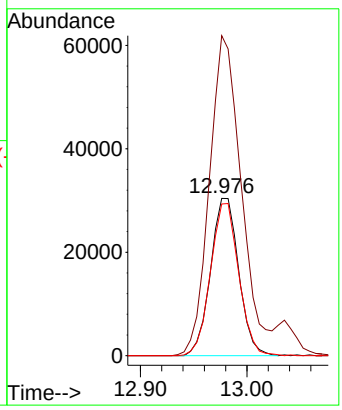




#77
Bromobenzene
Concen: 19.872 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:156 Resp: 5569

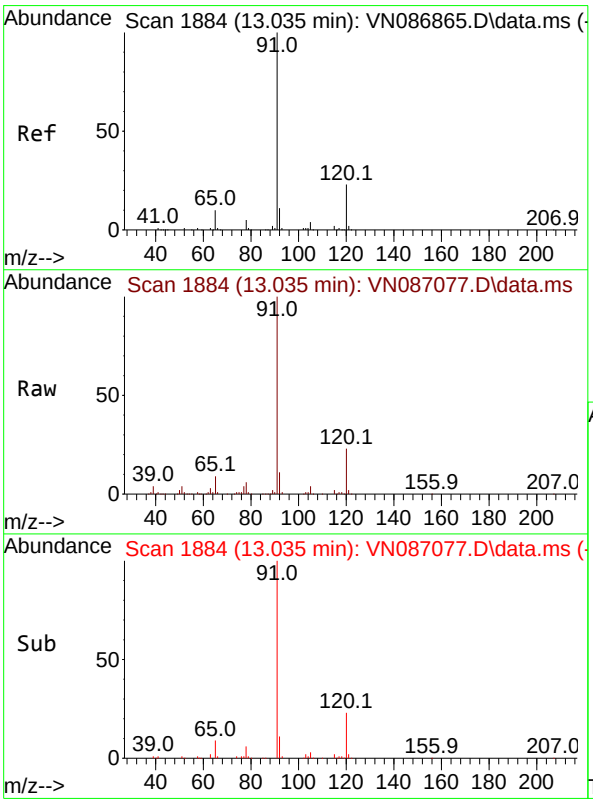
Ion	Ratio	Lower	Upper
156	100		
77	231.6	117.7	353.1
158	97.3	48.1	144.4



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

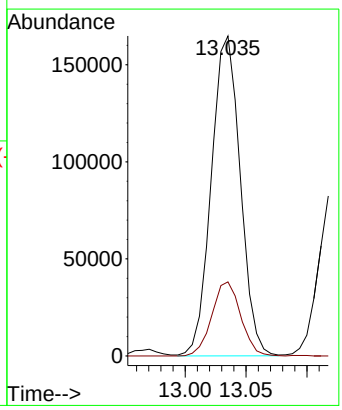
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

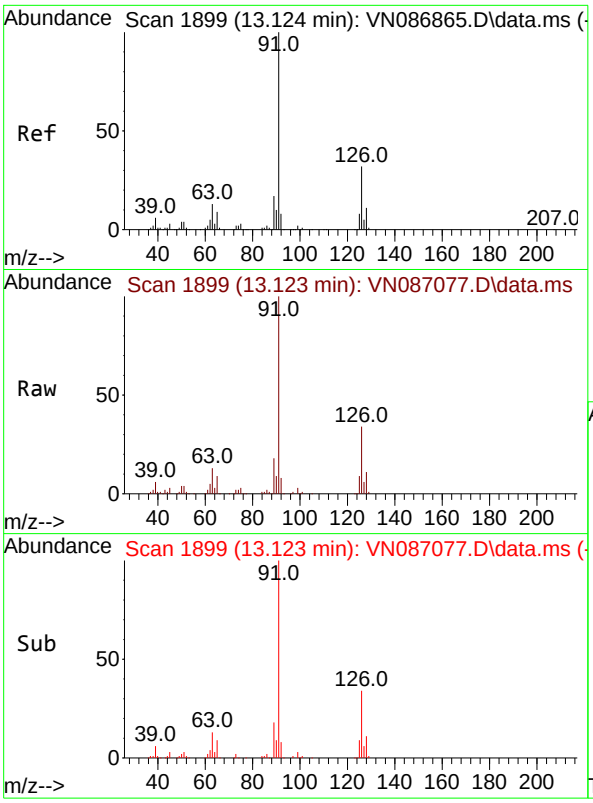


#78
n-propylbenzene
Concen: 18.390 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 91 Resp: 273130

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.4	34.2

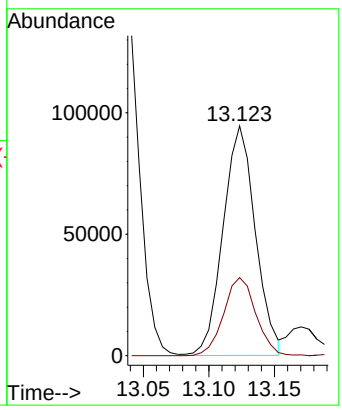




#79
2-Chlorotoluene
Concen: 18.218 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 91 Resp: 16226

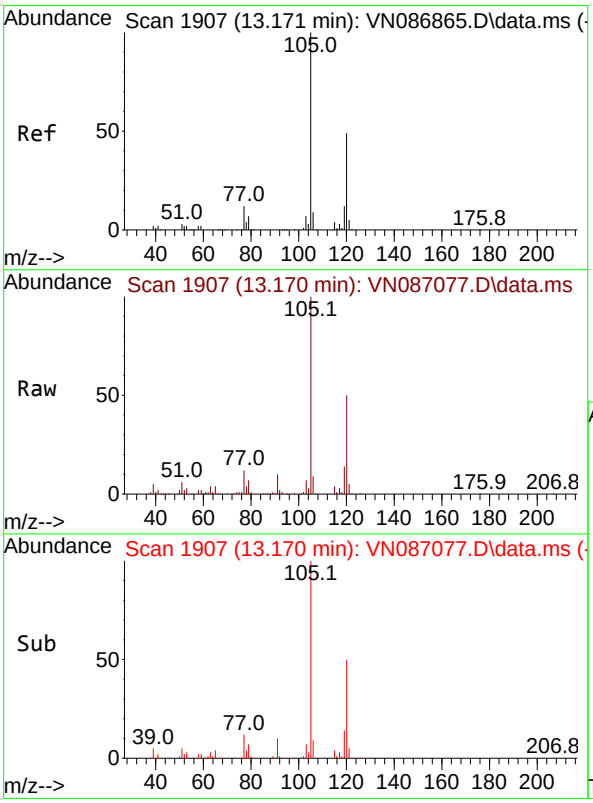
Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.2	48.5



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

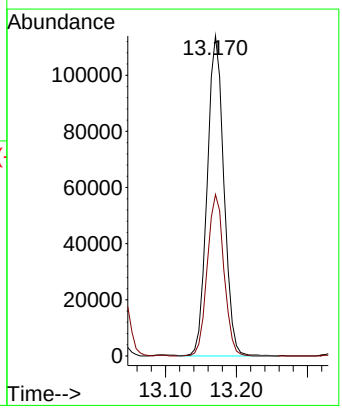
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

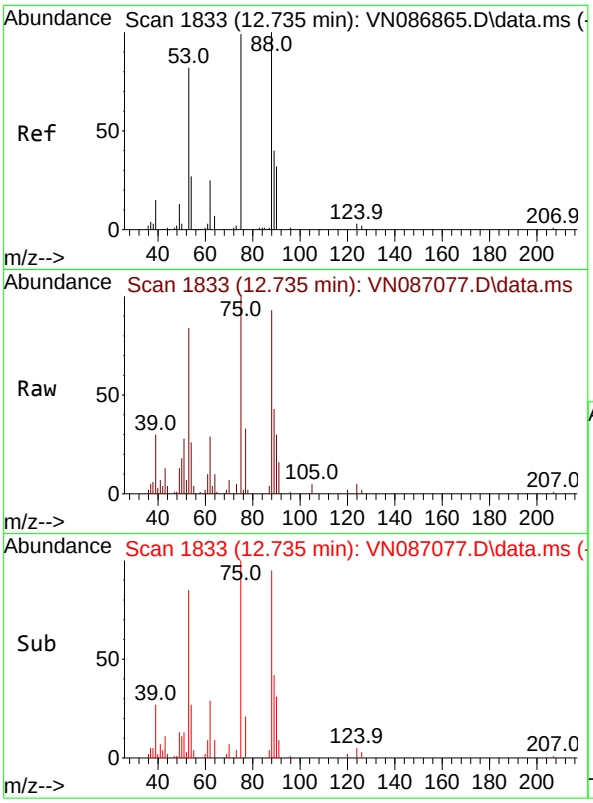


#80
1,3,5-Trimethylbenzene
Concen: 18.421 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:105 Resp: 185876

Ion	Ratio	Lower	Upper
105	100		
120	50.4	24.9	74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 18.171 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

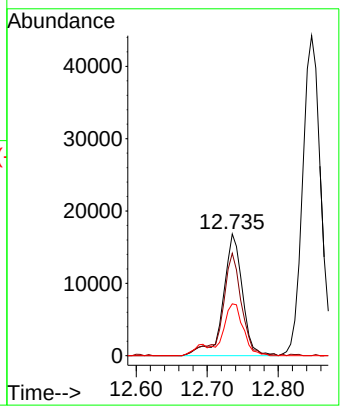
Tgt Ion: 75 Resp: 3147

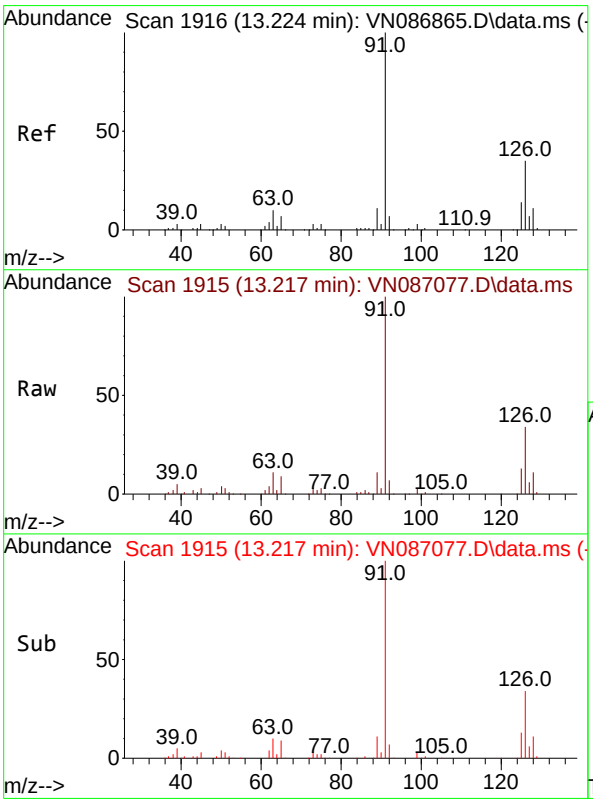
Ion	Ratio	Lower	Upper
75	100		
53	84.1	66.6	99.8
89	41.6	36.7	55.1

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

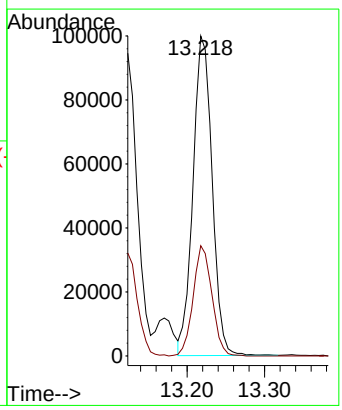


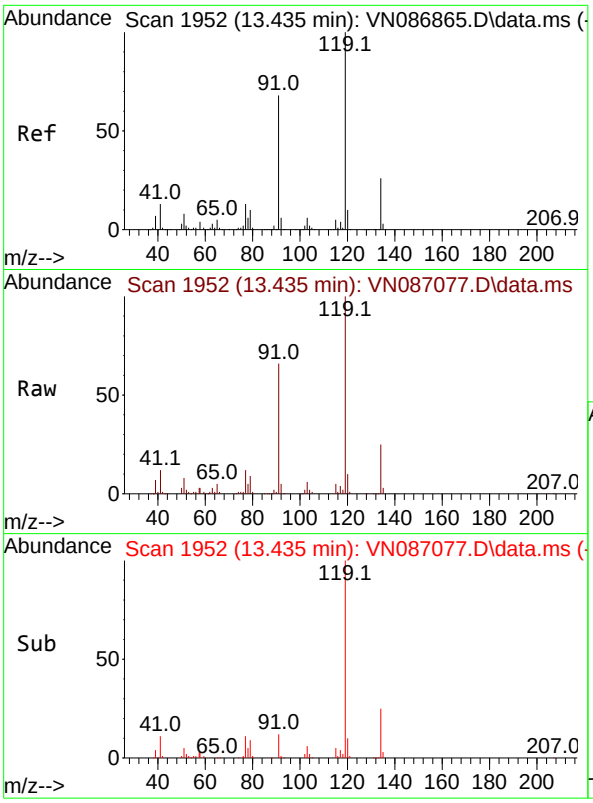


#82
4-Chlorotoluene
Concen: 18.988 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 91 Resp: 171133

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.7	50.1

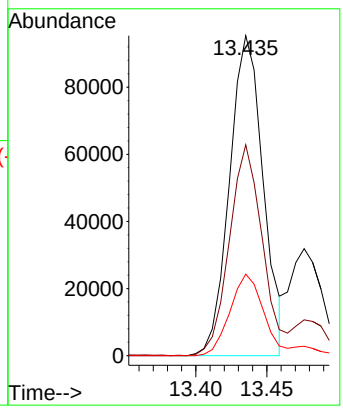




#83
tert-Butylbenzene
Concen: 17.019 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:119 Resp: 15719

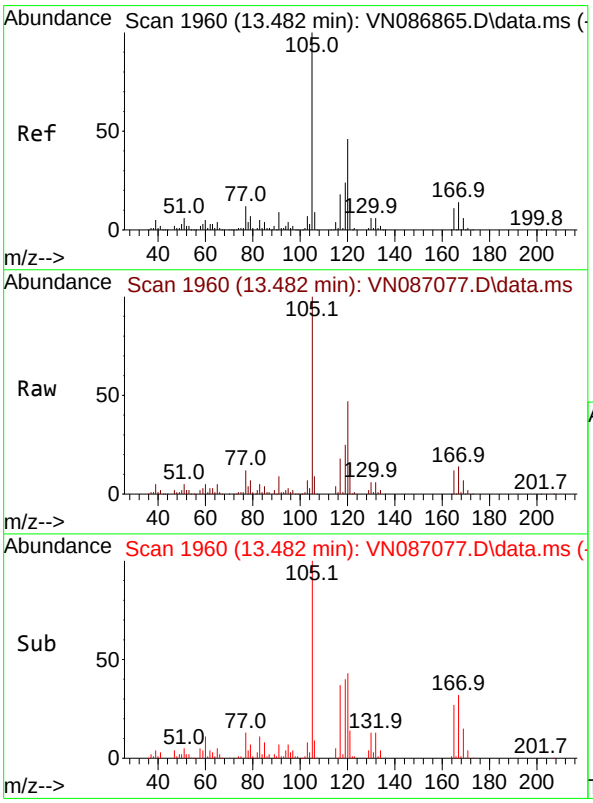
Ion	Ratio	Lower	Upper
119	100		
91	65.1	32.1	96.5
134	25.3	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations APPROVED

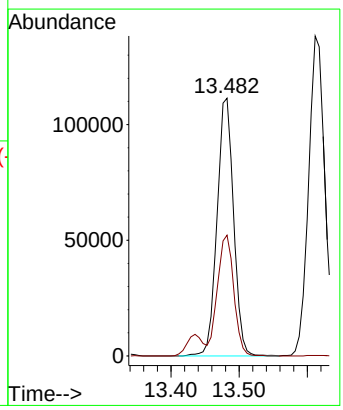
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

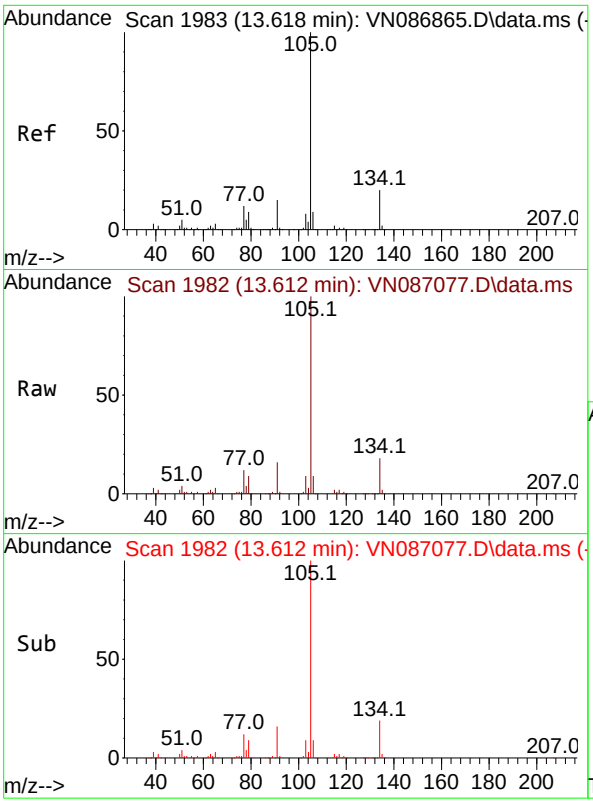


#84
1,2,4-Trimethylbenzene
Concen: 18.618 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:105 Resp: 188377

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.2	69.6

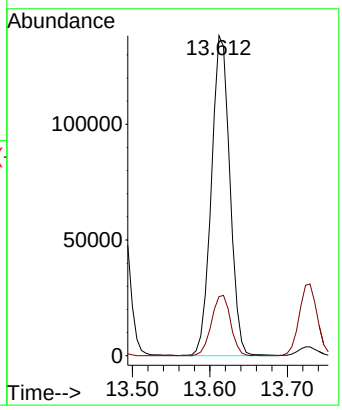




#85
sec-Butylbenzene
Concen: 17.068 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:105 Resp: 22894

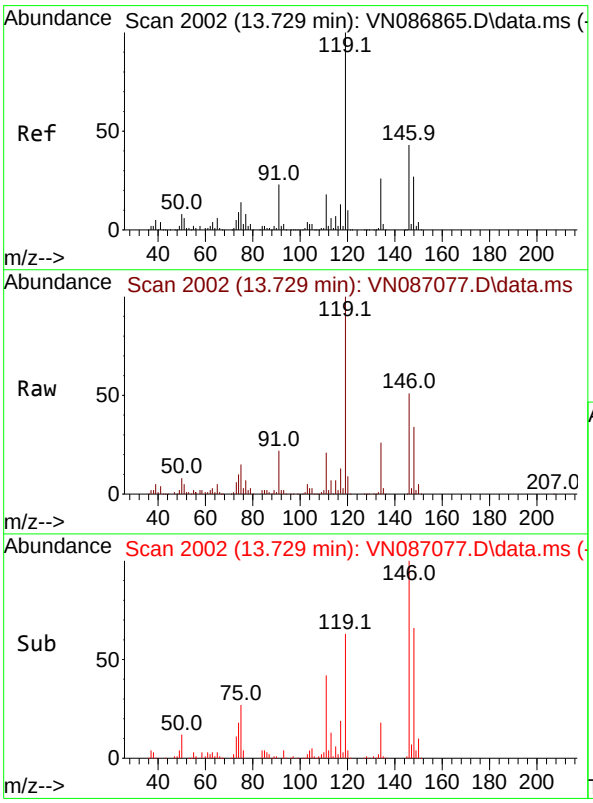
Ion	Ratio	Lower	Upper
105	100		
134	19.5	10.0	30.0



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

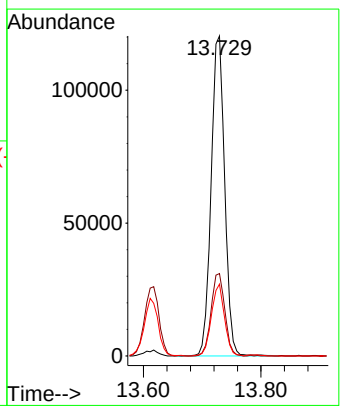
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

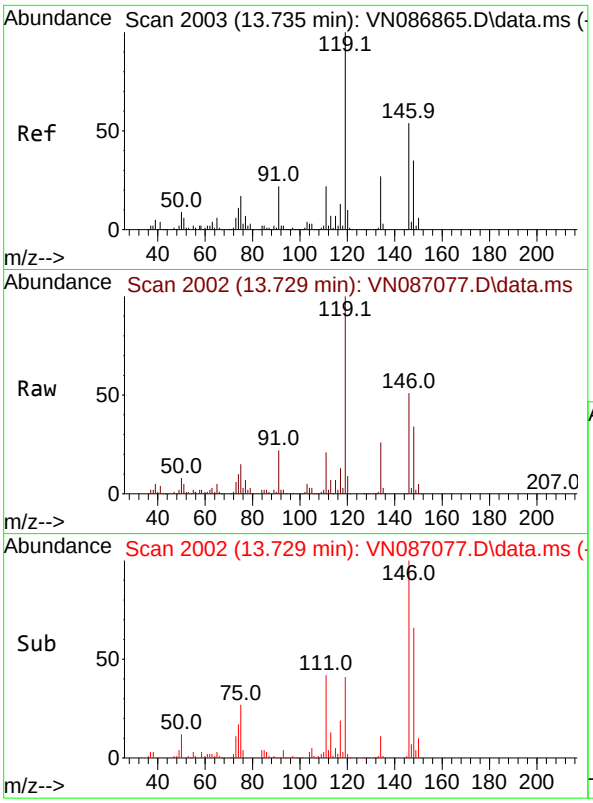


#86
p-Isopropyltoluene
Concen: 17.356 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:119 Resp: 192435

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.5	40.4
91	21.8	11.5	34.4

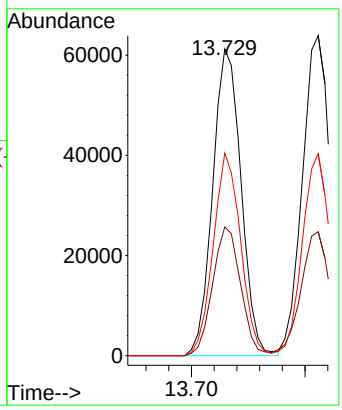




#87
1,3-Dichlorobenzene
Concen: 19.284 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:146 Resp: 10633

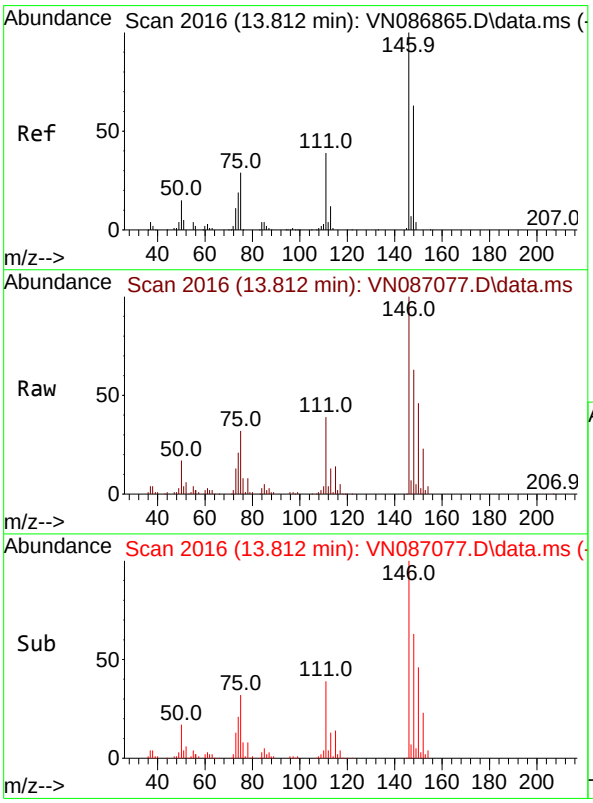
Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.9	62.8
148	63.9	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

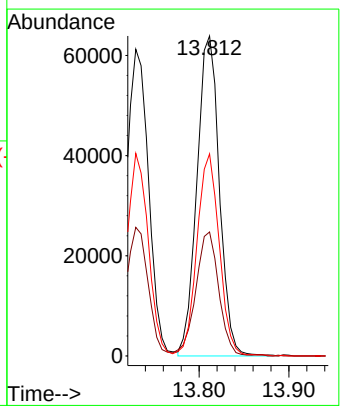
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

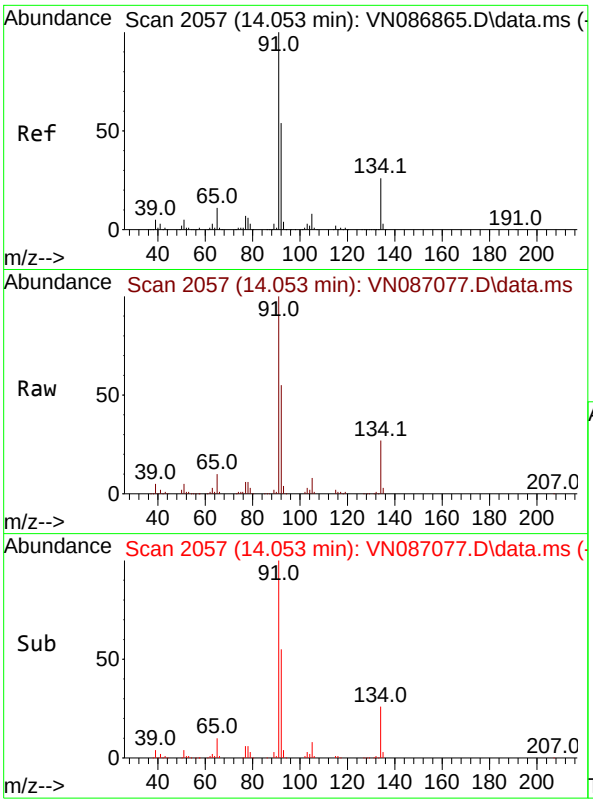


#88
1,4-Dichlorobenzene
Concen: 19.750 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:146 Resp: 111040

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.9	59.7
148	62.8	31.8	95.4

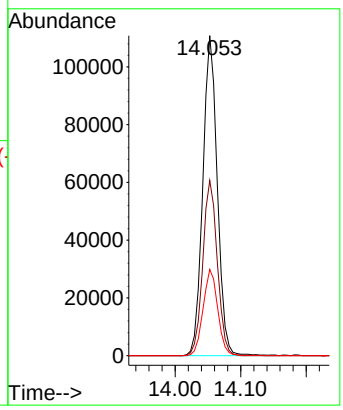




#89
n-Butylbenzene
Concen: 15.886 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 91 Resp: 17061

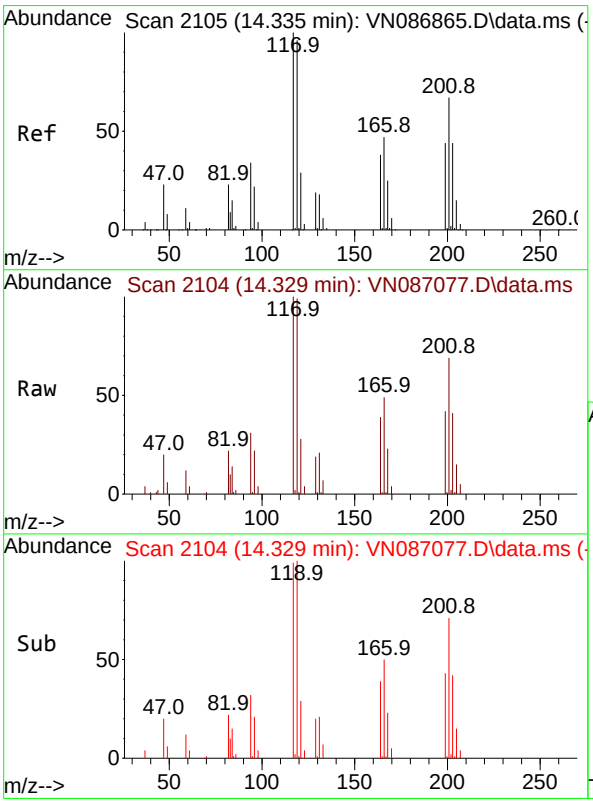
Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.5	82.4
134	27.1	13.0	39.0



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

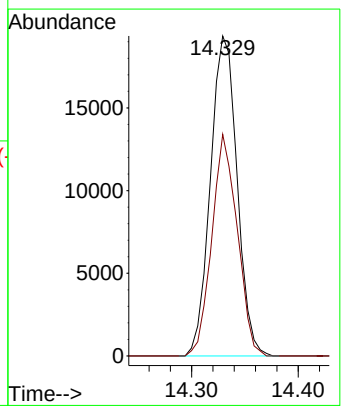
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

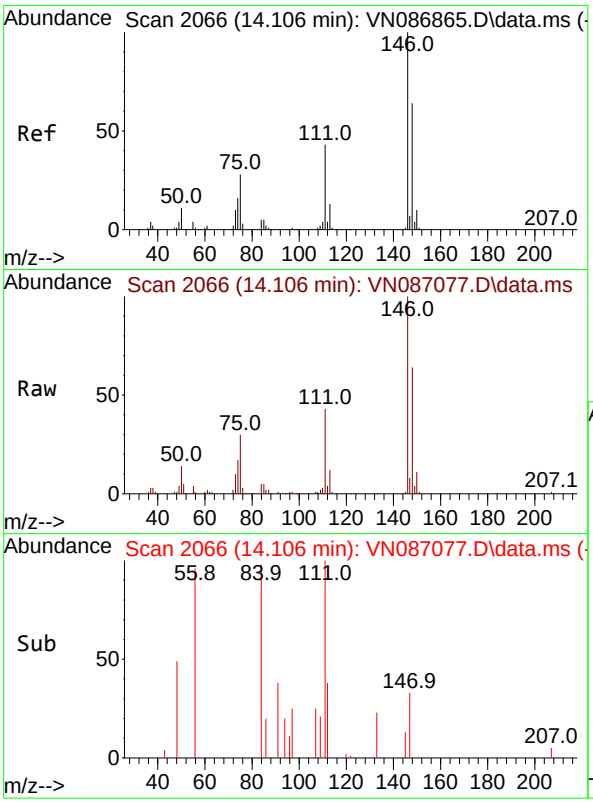


#90
Hexachloroethane
Concen: 17.908 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:117 Resp: 33657

Ion	Ratio	Lower	Upper
117	100		
201	66.0	33.2	99.6

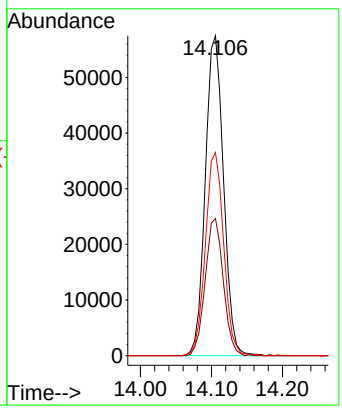




#91
1,2-Dichlorobenzene
Concen: 19.360 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:146 Resp: 10256

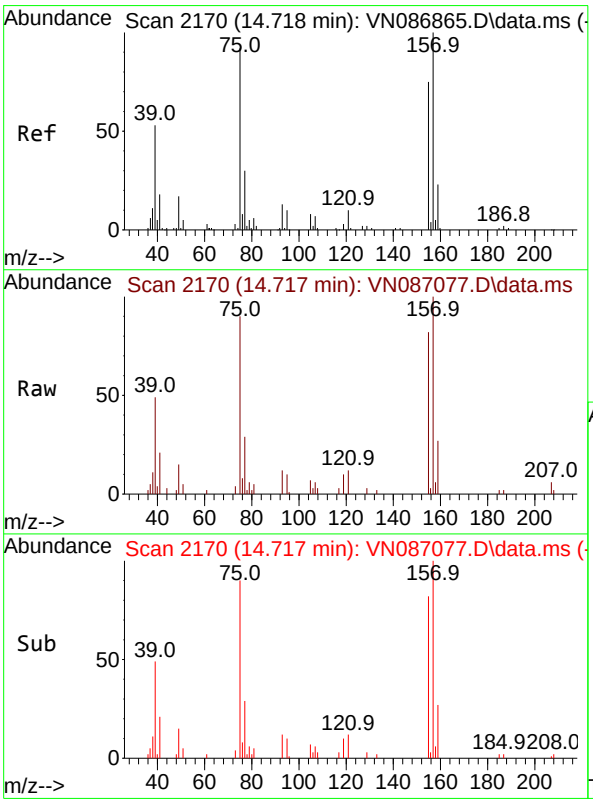
Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.6	64.6
148	63.9	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

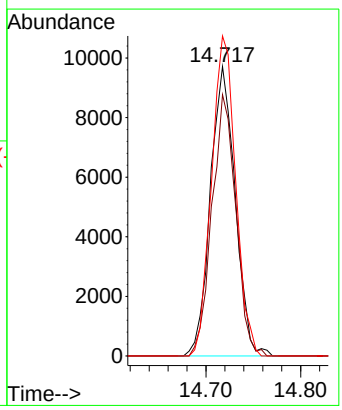
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

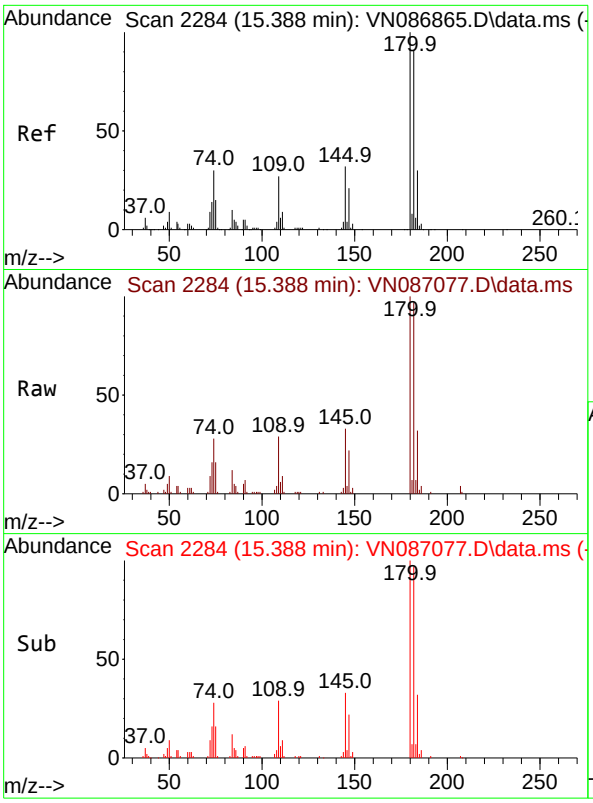


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.834 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 75 Resp: 17659

Ion	Ratio	Lower	Upper
75	100		
155	86.7	41.1	123.4
157	107.4	52.7	158.1

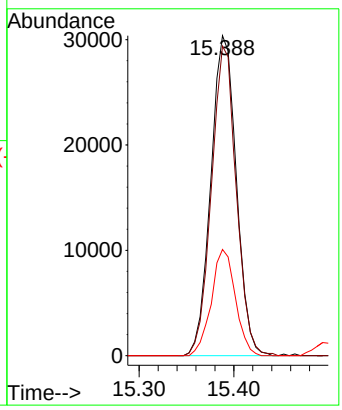




#93
1,2,4-Trichlorobenzene
Concen: 16.781 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:180 Resp: 5677

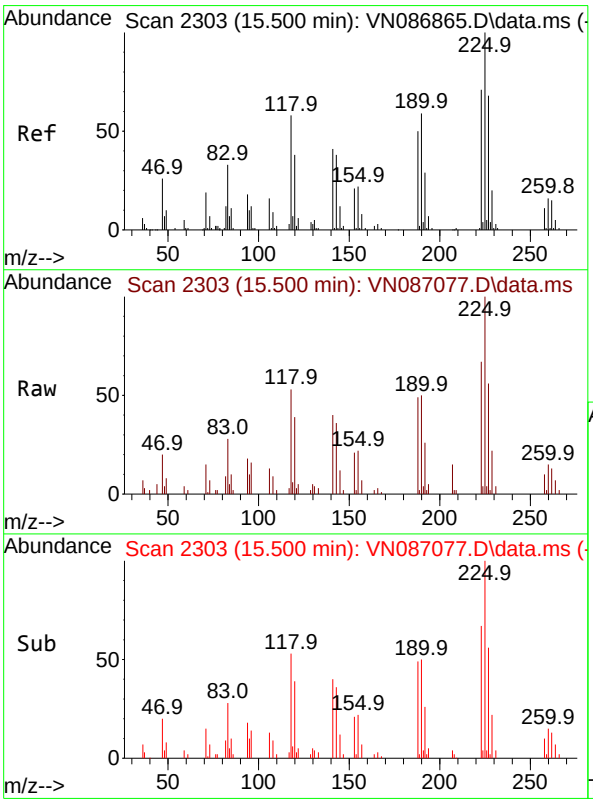
Ion	Ratio	Lower	Upper
180	100		
182	94.1	46.9	140.7
145	31.3	16.0	47.9



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

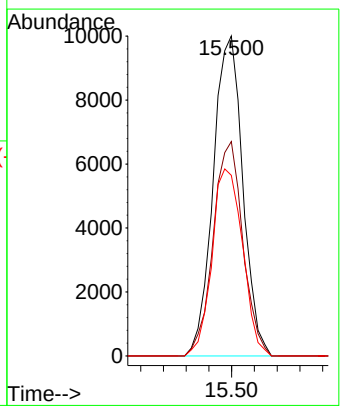
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025

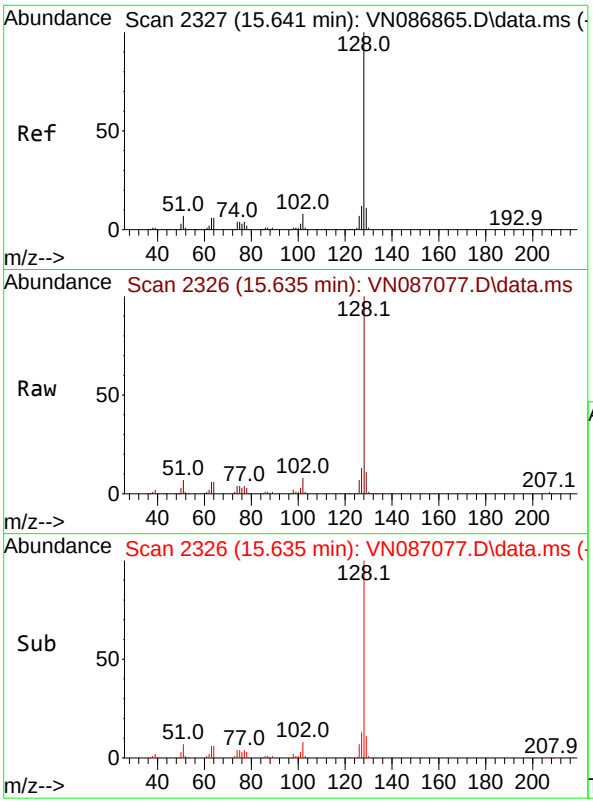


#94
Hexachlorobutadiene
Concen: 14.367 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:225 Resp: 18108

Ion	Ratio	Lower	Upper
225	100		
223	67.2	33.5	100.4
227	60.4	31.1	93.5

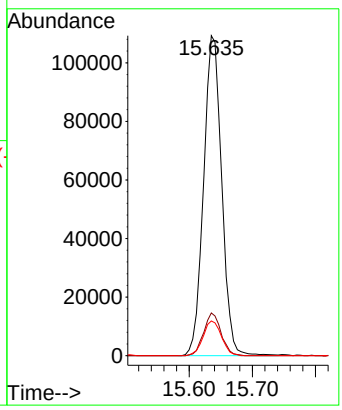




#95
Naphthalene
Concen: 17.306 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:128 Resp: 21792

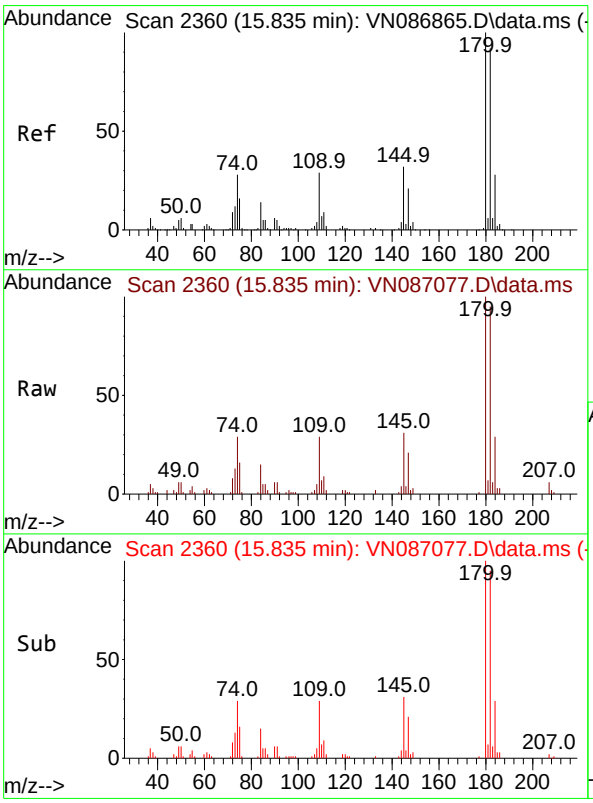
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	11.0	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Manual Integrations
APPROVED

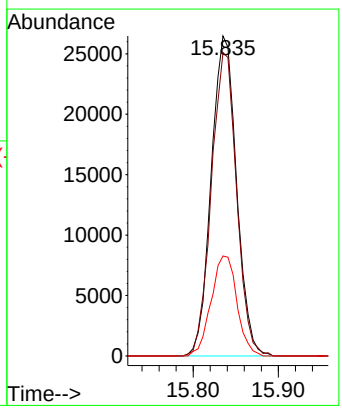
Reviewed By :John Carlone 06/19/2025
Supervised By :Mahesh Dadoda 06/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 16.270 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:180 Resp: 54686

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.0	141.0
145	31.8	16.6	49.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0619WBS01	SDG No.:	Q2329
Lab Sample ID:	VN0619WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087104.D	1		06/19/25 12:22	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	19.7		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	16.6		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	20.4		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	19.5		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	20.6		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	19.9		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	20.0		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.5		0.23	0.75	1.00	ug/L
67-64-1	Acetone	89.0		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	20.5		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.1		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	15.1		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	18.6		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.1		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.1		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	17.5		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	81.5		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.6		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.9		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	16.7		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	19.0		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.0		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	16.4		0.16	0.50	1.00	ug/L
71-43-2	Benzene	19.2		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.9		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.5		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	19.2		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	85.6		0.68	2.50	5.00	ug/L
108-88-3	Toluene	19.5		0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0619WBS01	SDG No.:	Q2329
Lab Sample ID:	VN0619WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087104.D	1		06/19/25 12:22	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	19.0		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.7		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.7		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	75.6		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	19.9		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	19.1		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	18.7		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	18.6		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.5		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	18.7		0.12	0.50	1.00	ug/L
100-42-5	Styrene	19.2		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	20.2		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.1		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.1		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.4		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.2		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.0		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	17.1		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	16.0		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	15.4		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.3		81 - 118		97%	SPK: 50
1868-53-7	Dibromofluoromethane	53.3		80 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	49.9		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	169000	8.23				
540-36-3	1,4-Difluorobenzene	301000	9.106				
3114-55-4	Chlorobenzene-d5	265000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	VN0619WBS01	SDG No.:	Q2329
Lab Sample ID:	VN0619WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087104.D	1		06/19/25 12:22	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061925\
Data File : VN087104.D
Acq On : 19 Jun 2025 12:22
Operator : JC\MD
Sample : VN0619WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 20 01:21:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	168651	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	300634	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	265368	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132931	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	108975	48.261	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.520%			
35) Dibromofluoromethane	8.171	113	95048	53.349	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.700%			
50) Toluene-d8	10.565	98	352249	49.943	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.880%			
62) 4-Bromofluorobenzene	12.847	95	131878	50.328	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	33152	19.715	ug/l	99
3) Chloromethane	2.395	50	36144	16.645	ug/l	95
4) Vinyl Chloride	2.554	62	45733	20.417	ug/l	98
5) Bromomethane	3.001	94	24381	19.450	ug/l	97
6) Chloroethane	3.154	64	29734	20.551	ug/l	97
7) Trichlorofluoromethane	3.530	101	58381	19.949	ug/l	95
8) Diethyl Ether	3.983	74	23263	18.244	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.400	101	36694	19.957	ug/l	99
10) Methyl Iodide	4.612	142	25387	10.651	ug/l	94
11) Tert butyl alcohol	5.536	59	47889	78.161	ug/l	100
12) 1,1-Dichloroethene	4.365	96	36579	19.487	ug/l	89
13) Acrolein	4.200	56	14516	74.847	ug/l	99
14) Allyl chloride	5.042	41	53678	17.243	ug/l	97
15) Acrylonitrile	5.730	53	125605	87.707	ug/l	98
16) Acetone	4.448	43	106591	89.014	ug/l	96
17) Carbon Disulfide	4.742	76	106591	20.529	ug/l	99
18) Methyl Acetate	5.053	43	52756	15.118	ug/l	96
19) Methyl tert-butyl Ether	5.812	73	123313	18.143	ug/l	98
20) Methylene Chloride	5.300	84	41638	18.573	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	39921	19.115	ug/l	93
22) Diisopropyl ether	6.689	45	116762	17.793	ug/l	96
23) Vinyl Acetate	6.618	43	504210	90.941	ug/l	98
24) 1,1-Dichloroethane	6.589	63	72207	19.121	ug/l	99
25) 2-Butanone	7.489	43	158665	81.516	ug/l	99
26) 2,2-Dichloropropane	7.500	77	62735	21.356	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	47158	18.881	ug/l	99
28) Bromochloromethane	7.824	49	30970	16.679	ug/l	93
29) Tetrahydrofuran	7.847	42	104052	82.062	ug/l	97
30) Chloroform	7.977	83	71775	19.032	ug/l	99
31) Cyclohexane	8.265	56	64243	17.542	ug/l	96
32) 1,1,1-Trichloroethane	8.177	97	61007	19.019	ug/l	94
36) 1,1-Dichloropropene	8.377	75	52501	19.776	ug/l	98
37) Ethyl Acetate	7.571	43	60681	17.955	ug/l	100
38) Carbon Tetrachloride	8.365	117	51019	19.575	ug/l	99
39) Methylcyclohexane	9.606	83	59566	16.377	ug/l	96
40) Benzene	8.612	78	166491	19.178	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087104.D
Acq On : 19 Jun 2025 12:22
Operator : JC\MD
Sample : VN0619WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 20 01:21:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	30797	16.226	ug/l		93
42) 1,2-Dichloroethane	8.677	62	49646	18.854	ug/l		100
43) Isopropyl Acetate	8.694	43	93856	17.303	ug/l		98
44) Trichloroethene	9.353	130	40989	19.912	ug/l		96
45) 1,2-Dichloropropane	9.624	63	41287	19.548	ug/l		96
46) Dibromomethane	9.712	93	28698	20.457	ug/l		98
47) Bromodichloromethane	9.888	83	55507	19.231	ug/l		98
48) Methyl methacrylate	9.682	41	40484	16.216	ug/l		95
49) 1,4-Dioxane	9.700	88	15863	349.264	ug/l	#	99
51) 4-Methyl-2-Pentanone	10.447	43	279386	85.559	ug/l		99
52) Toluene	10.629	92	103384	19.487	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	61414	19.028	ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	68133	19.730	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	40248	19.716	ug/l		99
56) Ethyl methacrylate	10.882	69	58604	18.024	ug/l		94
57) 1,3-Dichloropropane	11.165	76	68142	19.242	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	170894	88.120	ug/l		99
59) 2-Hexanone	11.206	43	159103	75.642	ug/l		92
60) Dibromochloromethane	11.359	129	42423	19.946	ug/l		99
61) 1,2-Dibromoethane	11.471	107	40038	19.135	ug/l		99
64) Tetrachloroethene	11.106	164	31369	18.678	ug/l		97
65) Chlorobenzene	11.888	112	114996	19.648	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.959	131	36384	19.339	ug/l		99
67) Ethyl Benzene	11.965	91	187103	18.559	ug/l		99
68) m/p-Xylenes	12.071	106	148640	38.516	ug/l		99
69) o-Xylene	12.394	106	69033	18.678	ug/l		100
70) Styrene	12.412	104	121336	19.185	ug/l		99
71) Bromoform	12.576	173	28191	20.223	ug/l	#	98
73) Isopropylbenzene	12.694	105	175452	18.117	ug/l		100
74) N-amyl acetate	12.529	43	59044m	17.448	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.935	83	62799	19.142	ug/l		97
76) 1,2,3-Trichloropropane	12.994	75	61035m	19.316	ug/l		
77) Bromobenzene	12.976	156	43802	19.723	ug/l		95
78) n-propylbenzene	13.035	91	208663	17.730	ug/l		99
79) 2-Chlorotoluene	13.123	91	127425	18.054	ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	145386	18.184	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	24382	17.762	ug/l	#	89
82) 4-Chlorotoluene	13.218	91	131206	18.373	ug/l		99
83) tert-Butylbenzene	13.435	119	121825	16.646	ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	145127	18.101	ug/l		99
85) sec-Butylbenzene	13.618	105	174730	16.440	ug/l		100
86) p-Isopropyltoluene	13.729	119	144675	16.467	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	84829	19.414	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	85402	19.170	ug/l		97
89) n-Butylbenzene	14.053	91	128130	15.056	ug/l		99
90) Hexachloroethane	14.335	117	26285	17.650	ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	79570	18.954	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	13393	17.070	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	42786	15.961	ug/l		100
94) Hexachlorobutadiene	15.500	225	13103	13.119	ug/l		98
95) Naphthalene	15.635	128	163318	16.368	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	40941	15.372	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087104.D
Acq On : 19 Jun 2025 12:22
Operator : JC\MD
Sample : VN0619WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 20 01:21:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

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

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

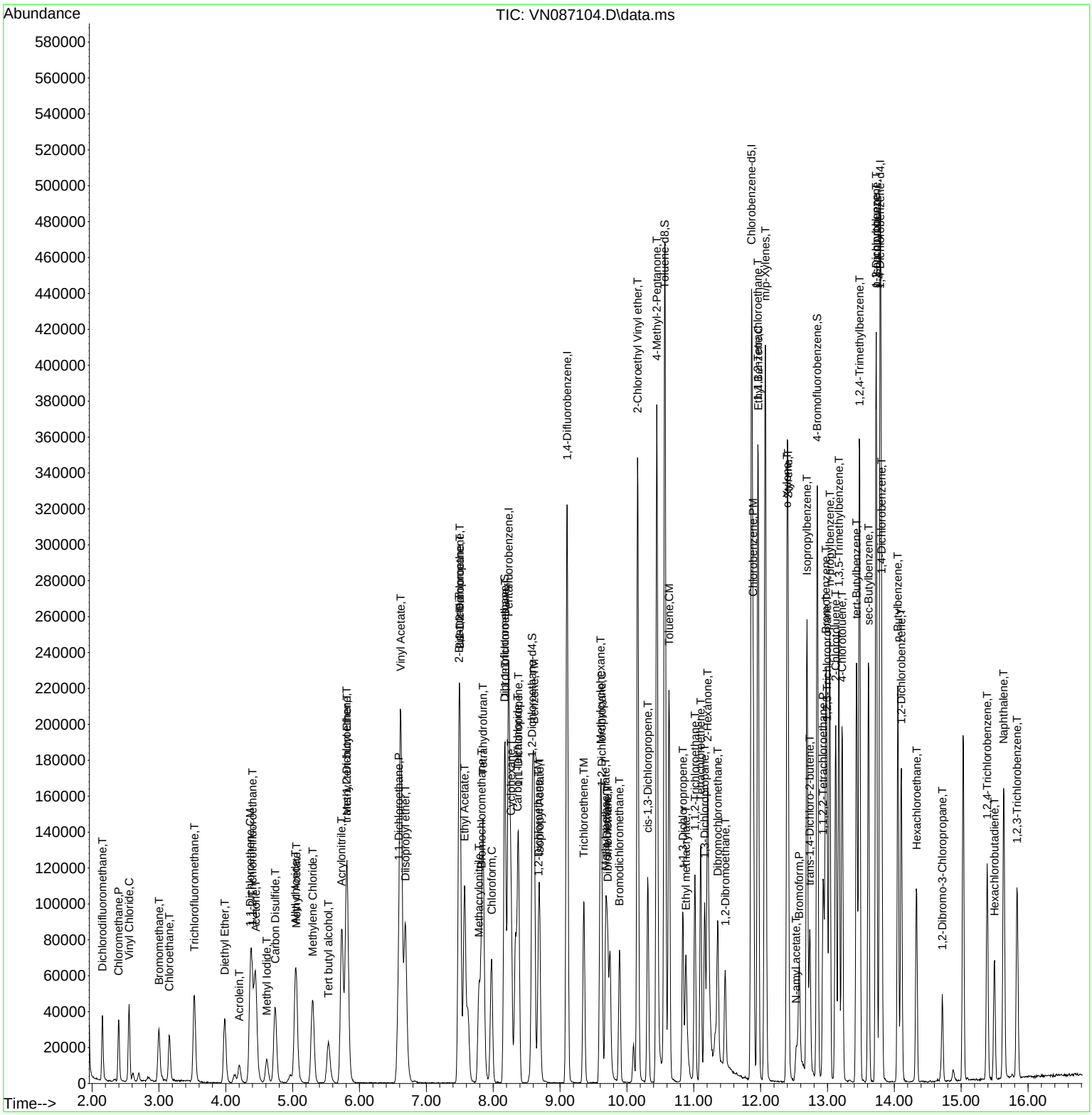
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087104.D
Acq On : 19 Jun 2025 12:22
Operator : JC\MD
Sample : VN0619WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

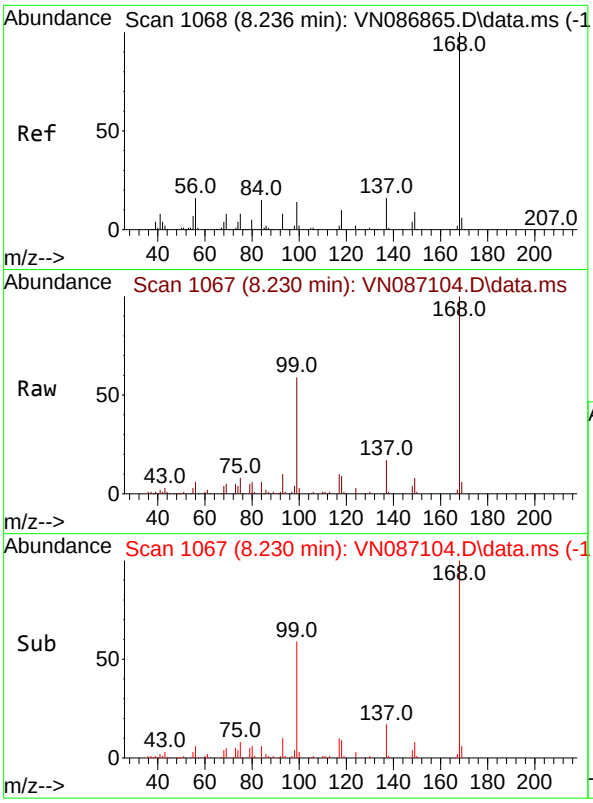
Quant Time: Jun 20 01:21:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

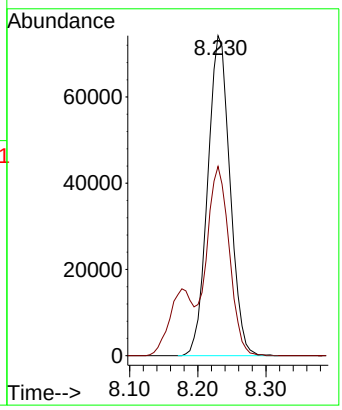




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:168 Resp: 16865

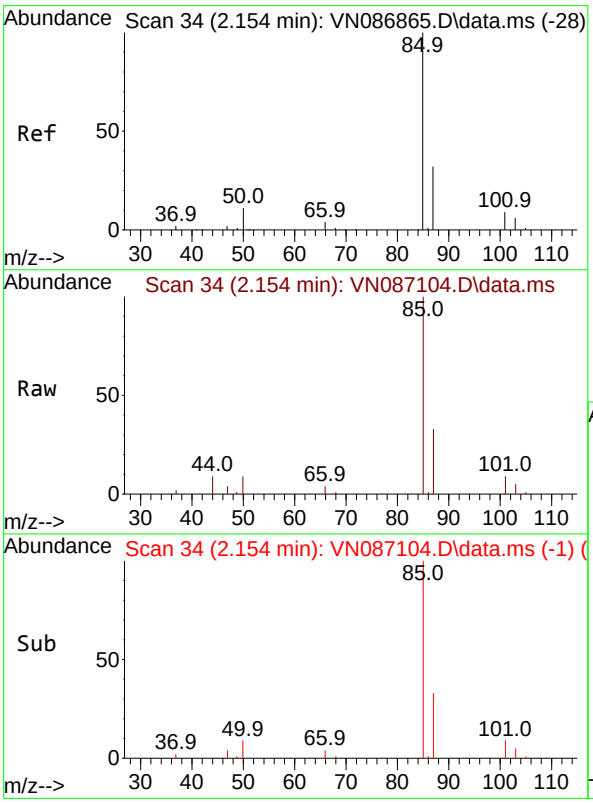
Ion	Ratio	Lower	Upper
168	100		
99	59.2	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

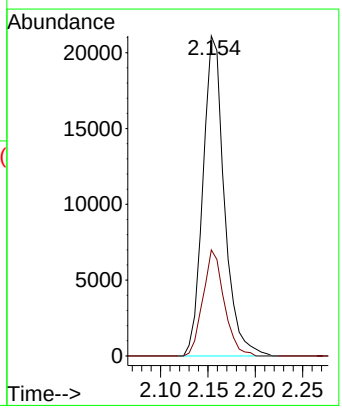
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

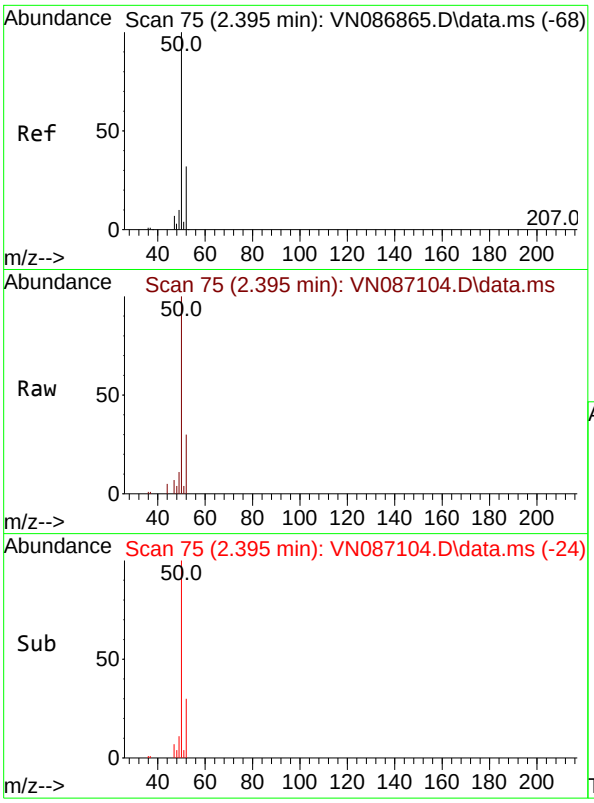


#2
Dichlorodifluoromethane
Concen: 19.715 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 85 Resp: 33152

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.2	48.6

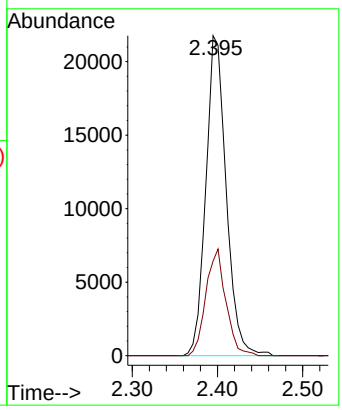




#3
Chloromethane
Concen: 16.645 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 50 Resp: 3614

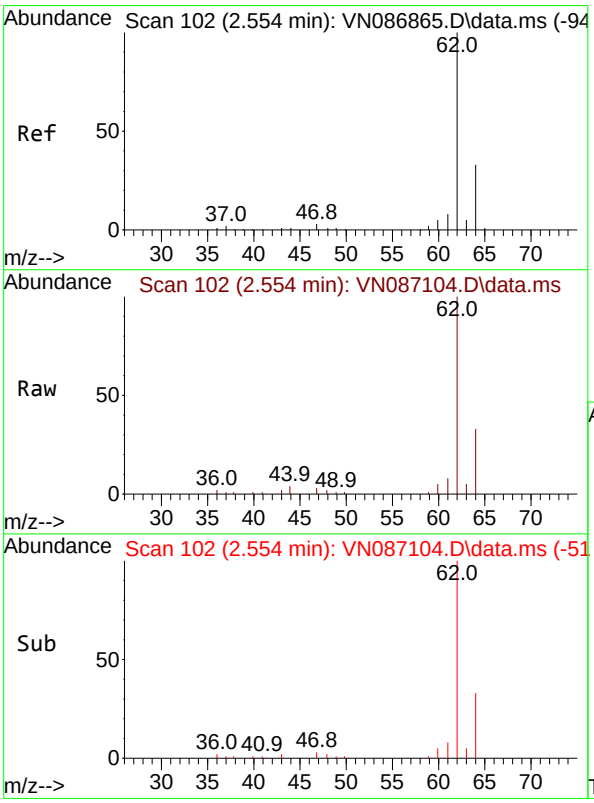
Ion	Ratio	Lower	Upper
50	100		
52	29.5	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

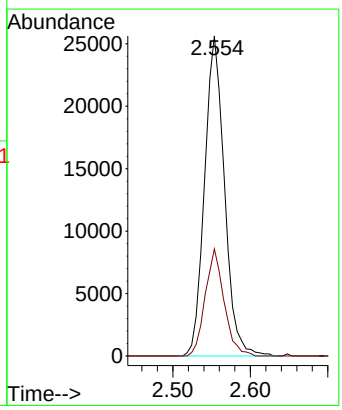
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

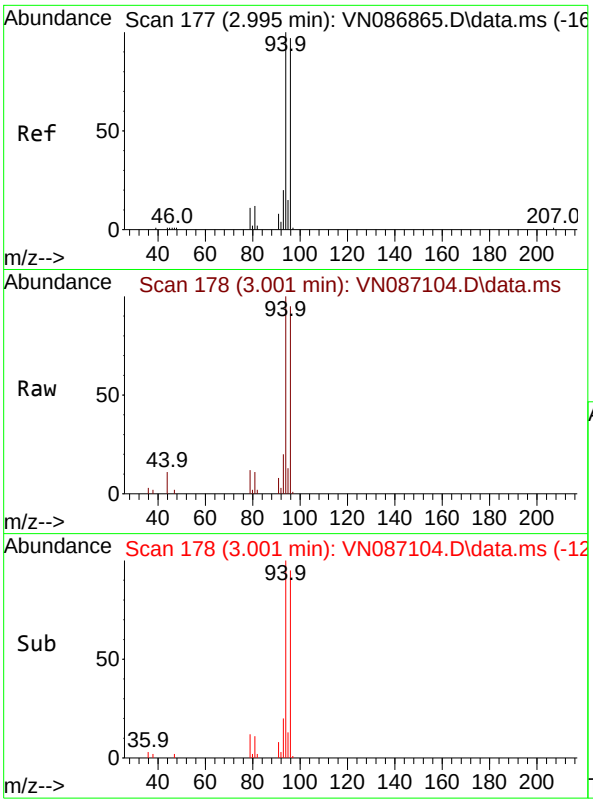


#4
Vinyl Chloride
Concen: 20.417 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 62 Resp: 45733

Ion	Ratio	Lower	Upper
62	100		
64	33.4	26.0	39.0

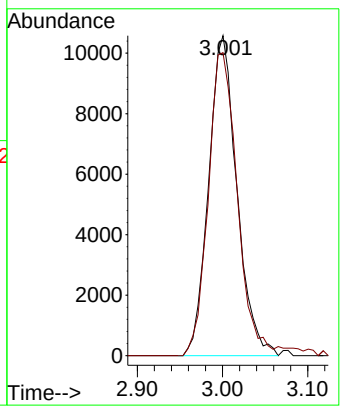




#5
Bromomethane
Concen: 19.450 ug/l
RT: 3.001 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 94 Resp: 2438

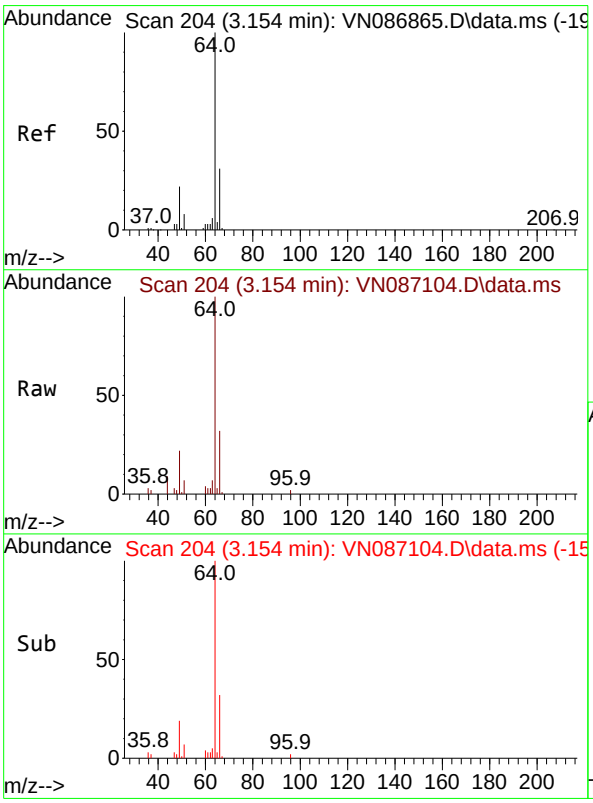
Ion	Ratio	Lower	Upper
94	100		
96	94.7	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

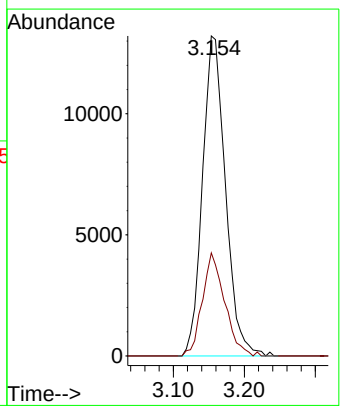
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

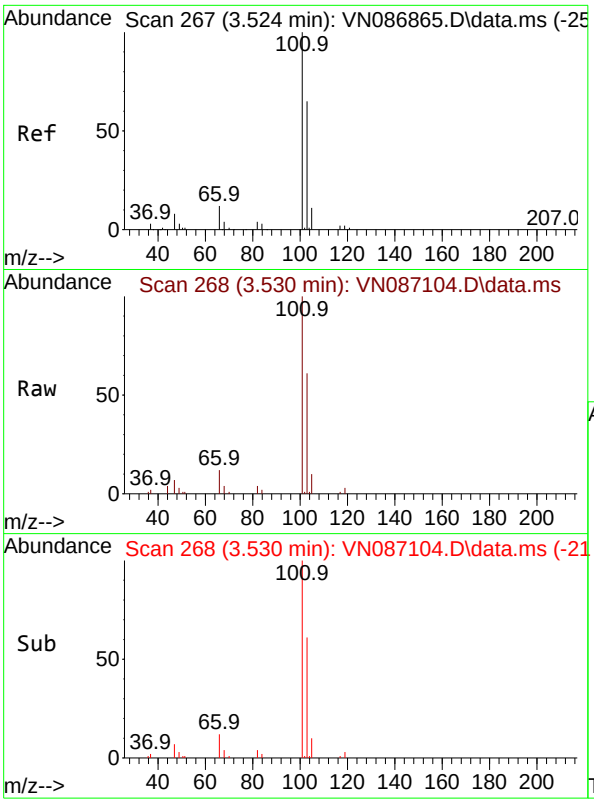


#6
Chloroethane
Concen: 20.551 ug/l
RT: 3.154 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 64 Resp: 29734

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.6	36.8

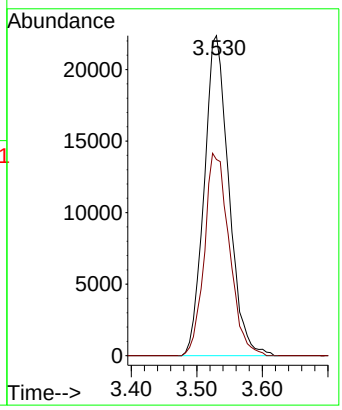




#7
Trichlorofluoromethane
Concen: 19.949 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:101 Resp: 5838

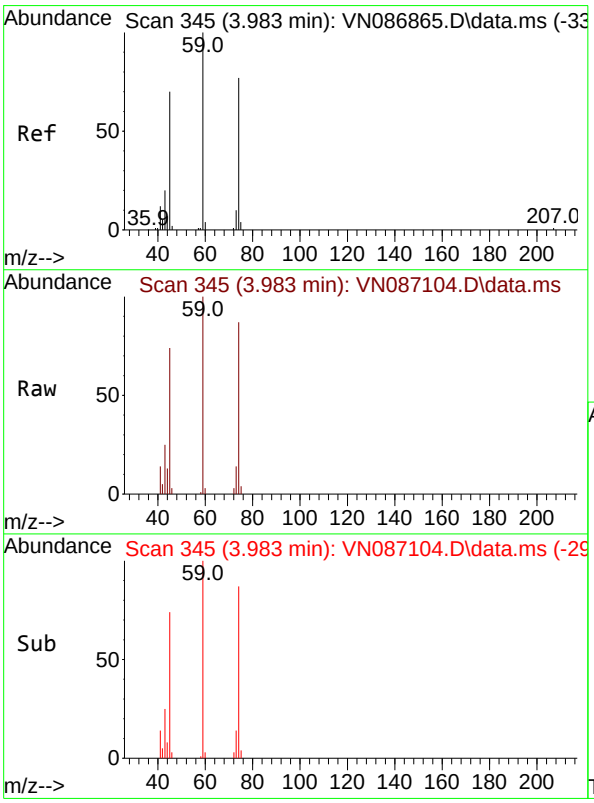
Ion	Ratio	Lower	Upper
101	100		
103	61.3	52.2	78.2



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations APPROVED

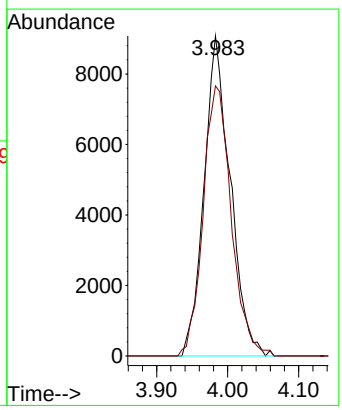
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

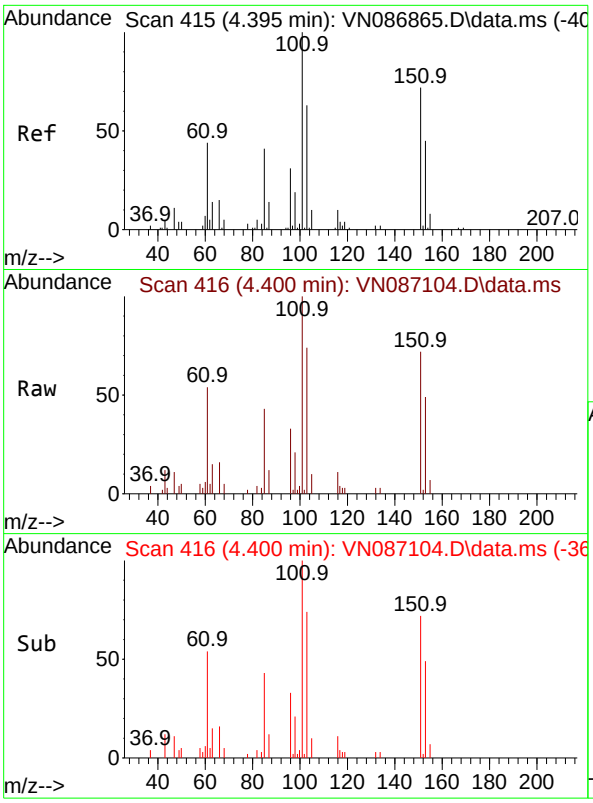


#8
Diethyl Ether
Concen: 18.244 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 74 Resp: 23263

Ion	Ratio	Lower	Upper
74	100		
45	90.6	45.5	136.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.957 ug/l
RT: 4.400 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

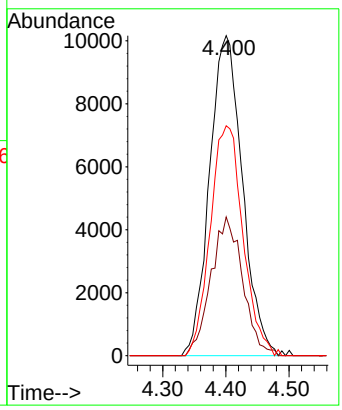
Tgt Ion:101 Resp: 3669

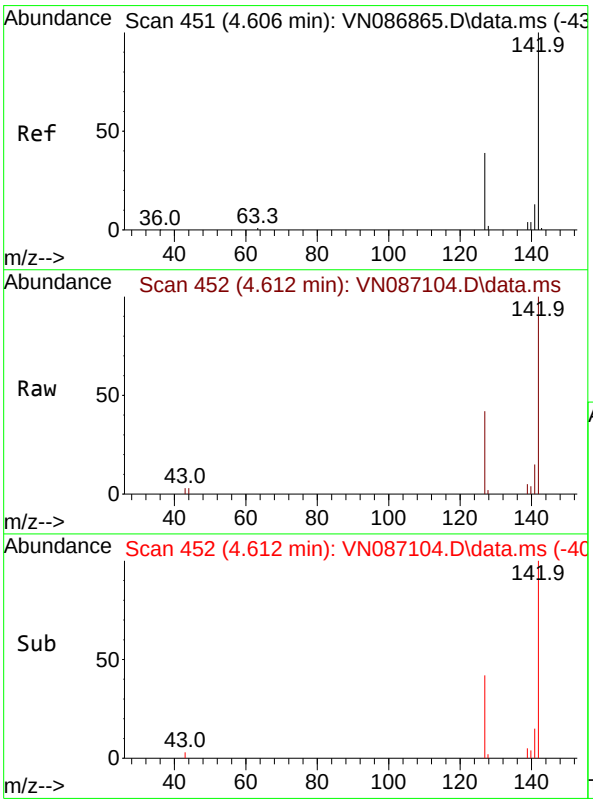
Ion	Ratio	Lower	Upper
101	100		
85	42.0	33.8	50.8
151	71.7	58.7	88.1

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

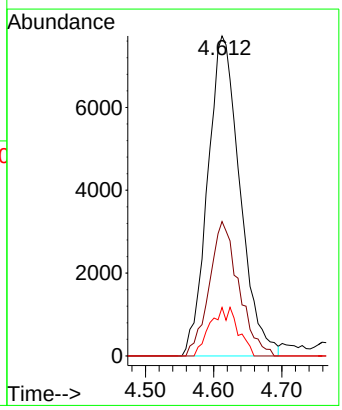


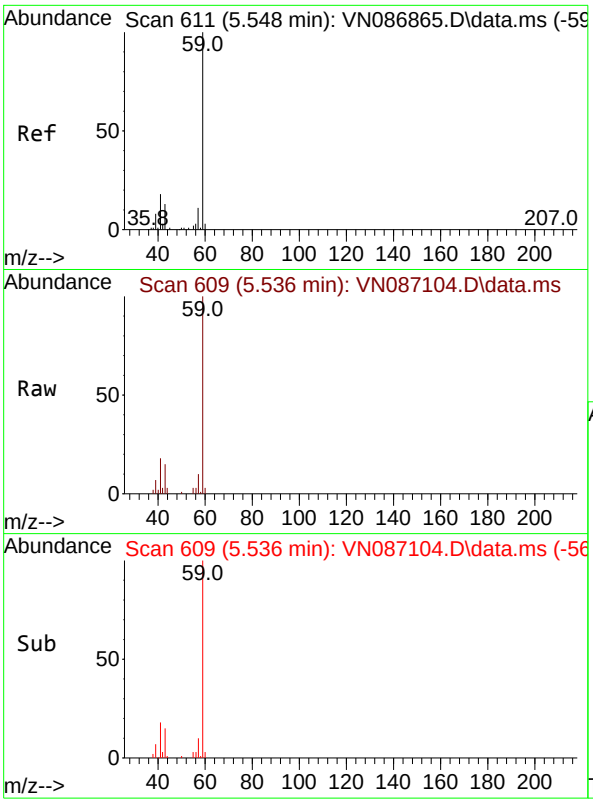


#10
Methyl Iodide
Concen: 10.651 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:142 Resp: 25387

Ion	Ratio	Lower	Upper
142	100		
127	42.0	30.9	46.3
141	15.1	10.4	15.6

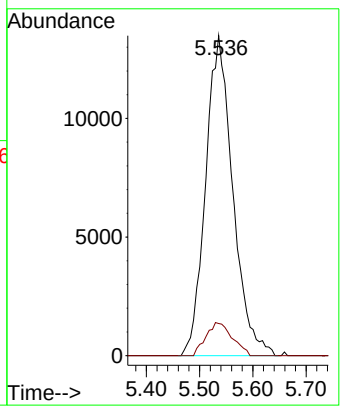




#11
Tert butyl alcohol
Concen: 78.161 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 59 Resp: 4788

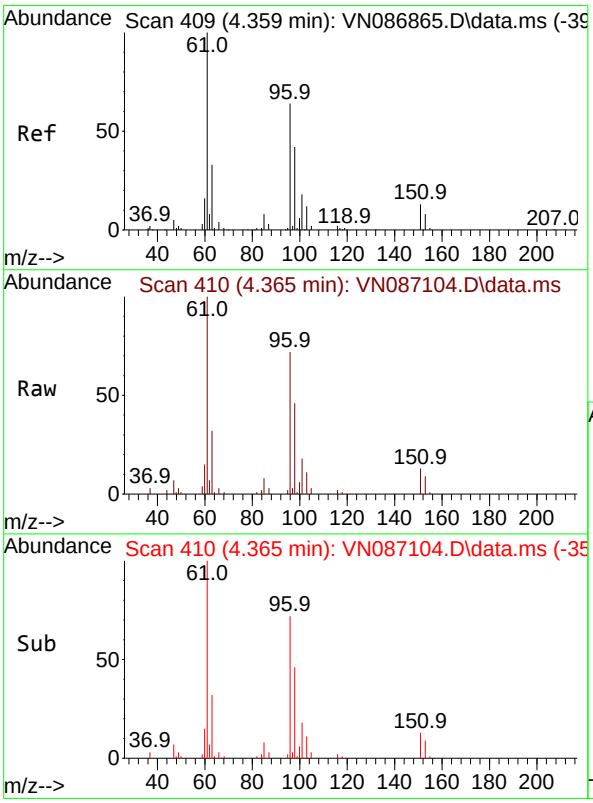
Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

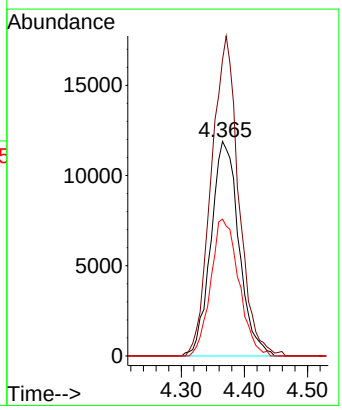
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

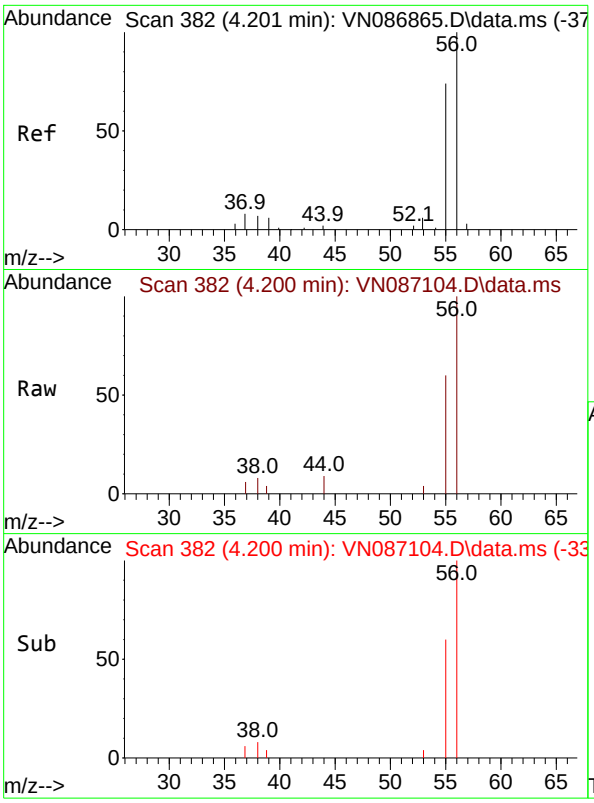


#12
1,1-Dichloroethene
Concen: 19.487 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 96 Resp: 36579

Ion	Ratio	Lower	Upper
96	100		
61	138.1	125.8	188.6
98	63.8	52.5	78.7

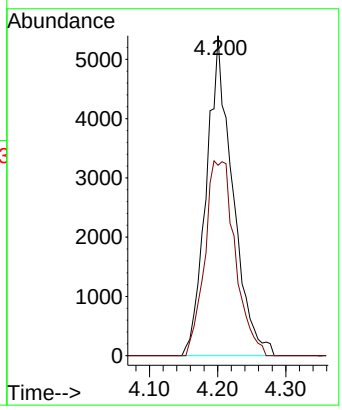




#13
Acrolein
Concen: 74.847 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 56 Resp: 1451

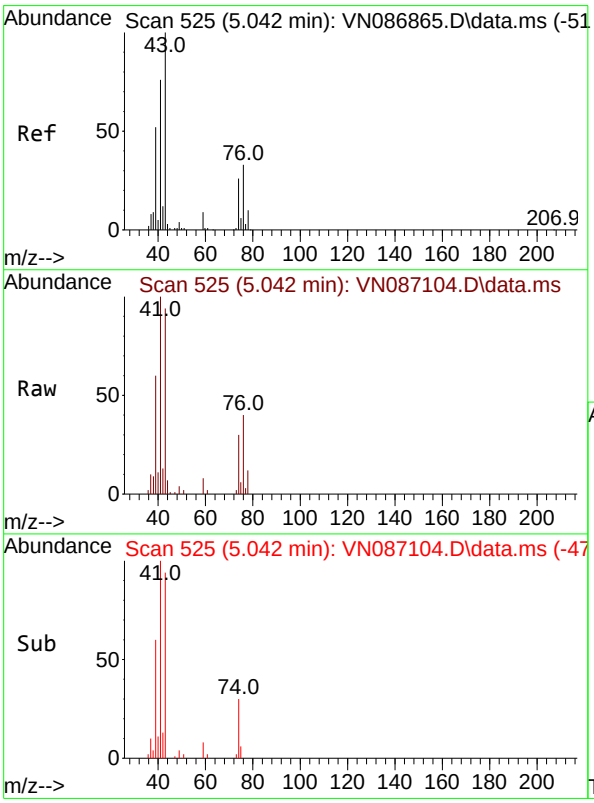
Ion	Ratio	Lower	Upper
56	100		
55	70.0	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

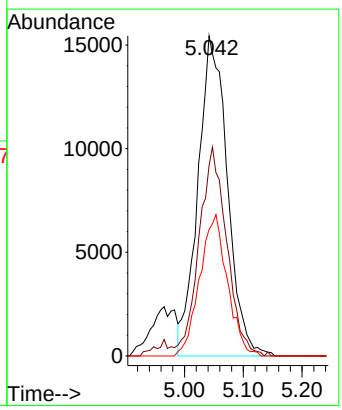
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

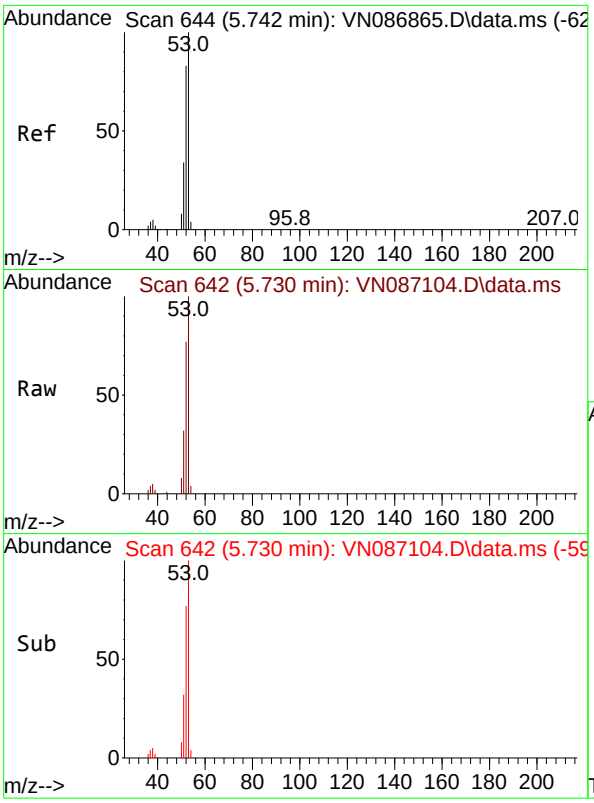


#14
Allyl chloride
Concen: 17.243 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 41 Resp: 53678

Ion	Ratio	Lower	Upper
41	100		
39	61.5	51.3	76.9
76	41.5	31.4	47.0

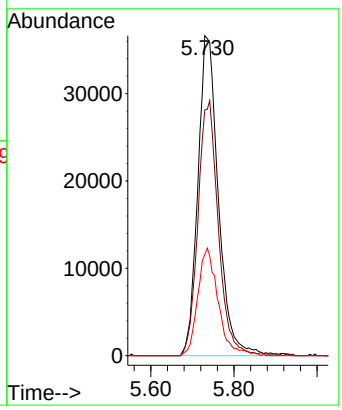




#15
Acrylonitrile
Concen: 87.707 ug/l
RT: 5.730 min Scan# 64
Delta R.T. -0.012 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 53 Resp: 12560

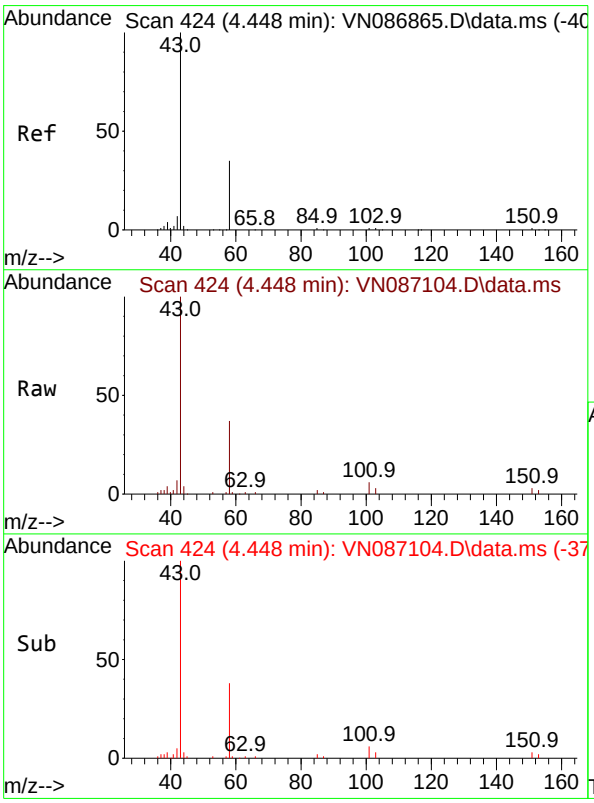
Ion	Ratio	Lower	Upper
53	100		
52	78.7	65.0	97.6
51	33.4	27.2	40.8



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

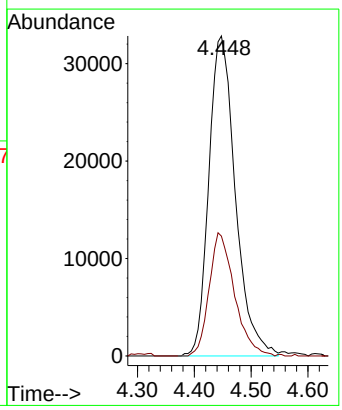
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

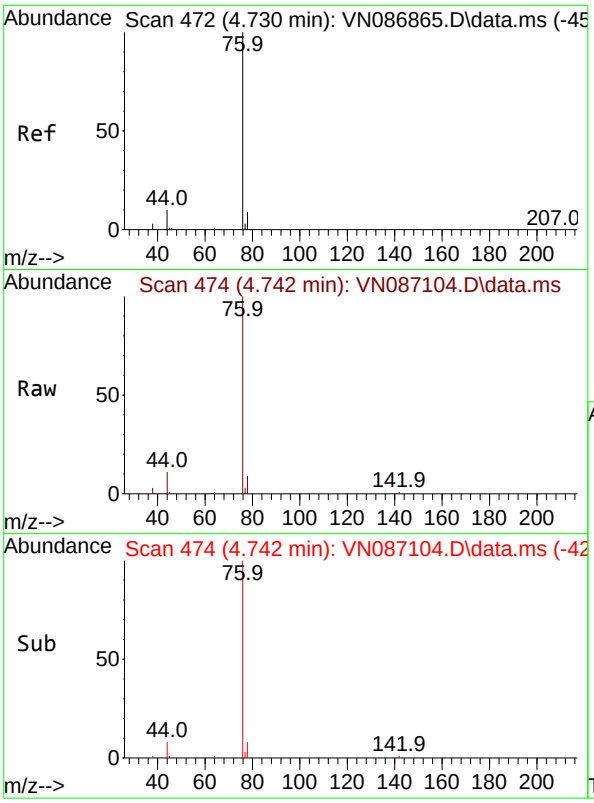


#16
Acetone
Concen: 89.014 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 43 Resp: 106591

Ion	Ratio	Lower	Upper
43	100		
58	37.5	28.0	42.0

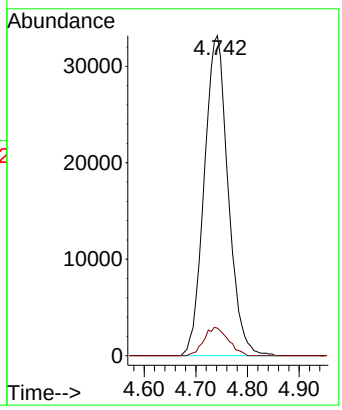




#17
Carbon Disulfide
Concen: 20.529 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 76 Resp: 10659

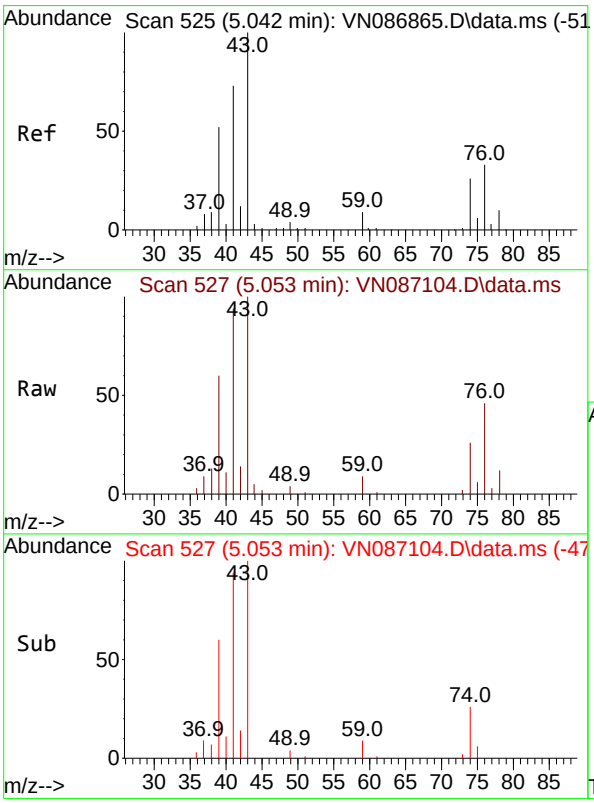
Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

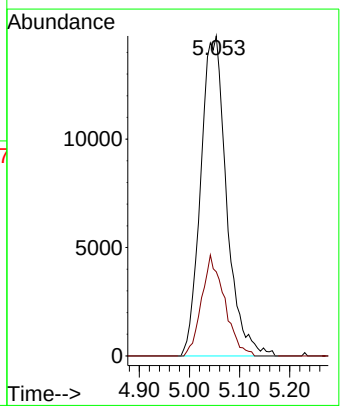
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

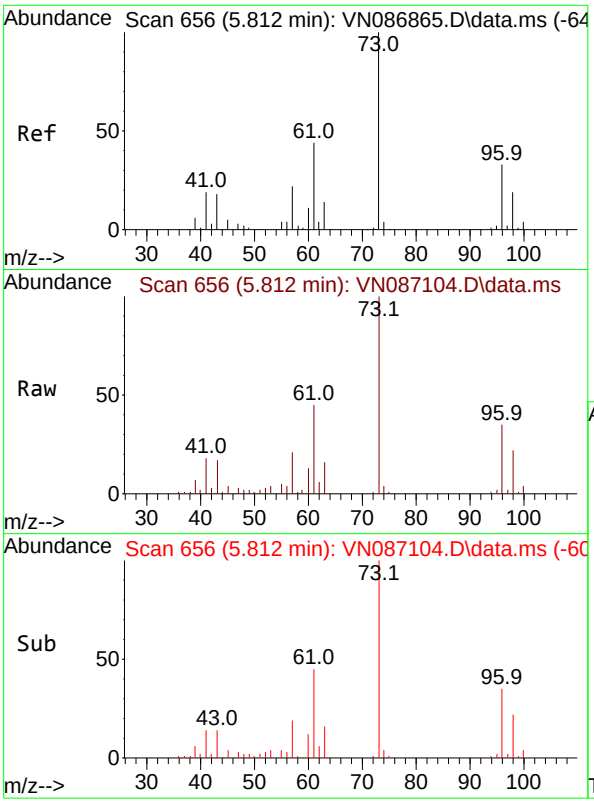


#18
Methyl Acetate
Concen: 15.118 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.012 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 43 Resp: 52756

Ion	Ratio	Lower	Upper
43	100		
74	28.2	20.7	31.1





#19
Methyl tert-butyl Ether
Concen: 18.143 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

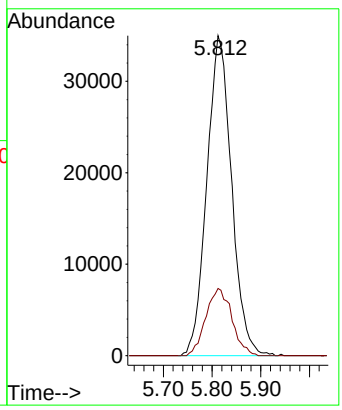
Tgt Ion: 73 Resp: 12331

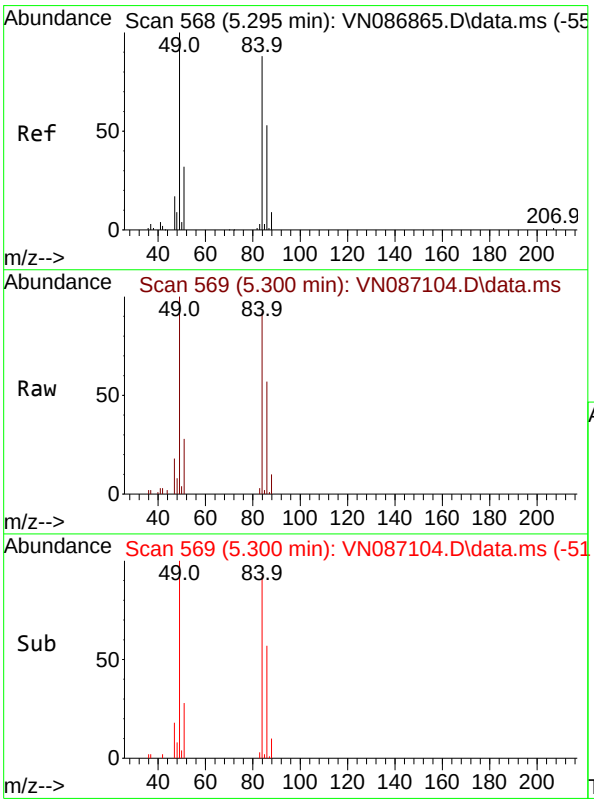
Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.2

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

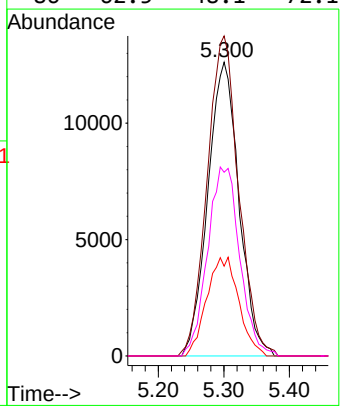


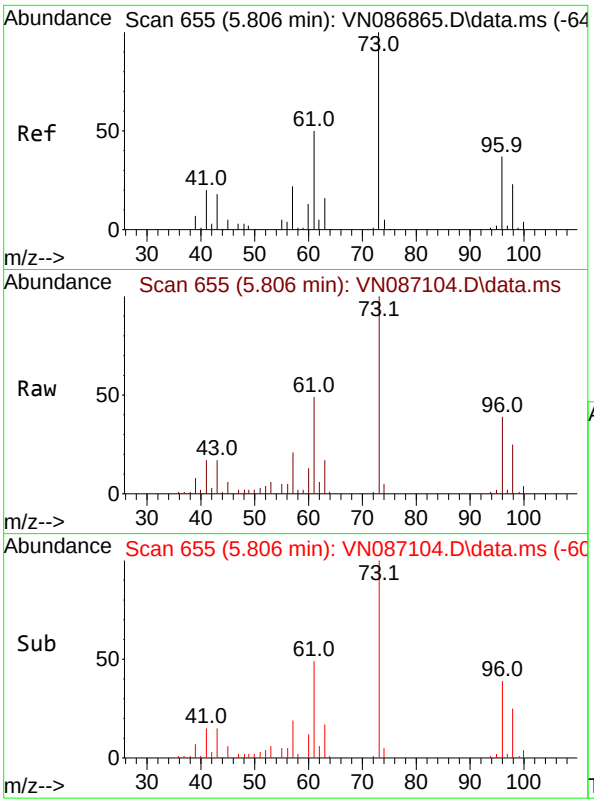


#20
Methylene Chloride
Concen: 18.573 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 84 Resp: 41638

Ion	Ratio	Lower	Upper
84	100		
49	109.0	90.5	135.7
51	30.5	28.5	42.7
86	62.5	48.1	72.1

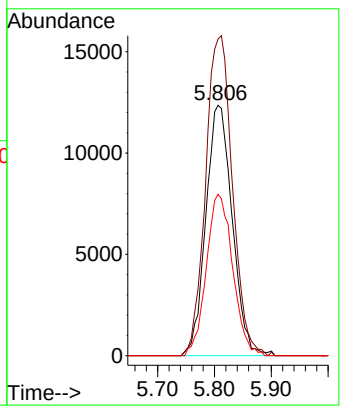




#21
trans-1,2-Dichloroethene
Concen: 19.115 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 96 Resp: 3992

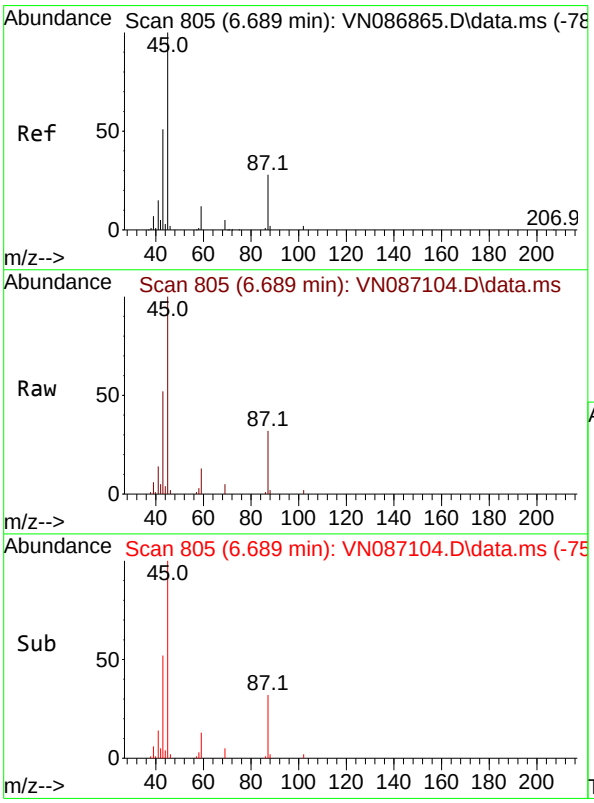
Ion	Ratio	Lower	Upper
96	100		
61	126.4	109.2	163.8
98	64.5	49.8	74.8



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

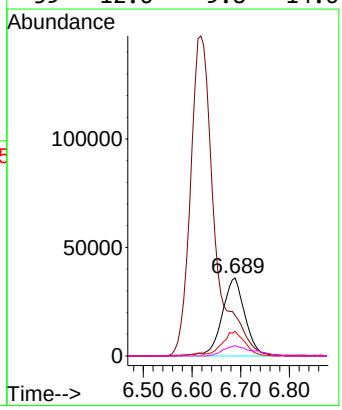
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

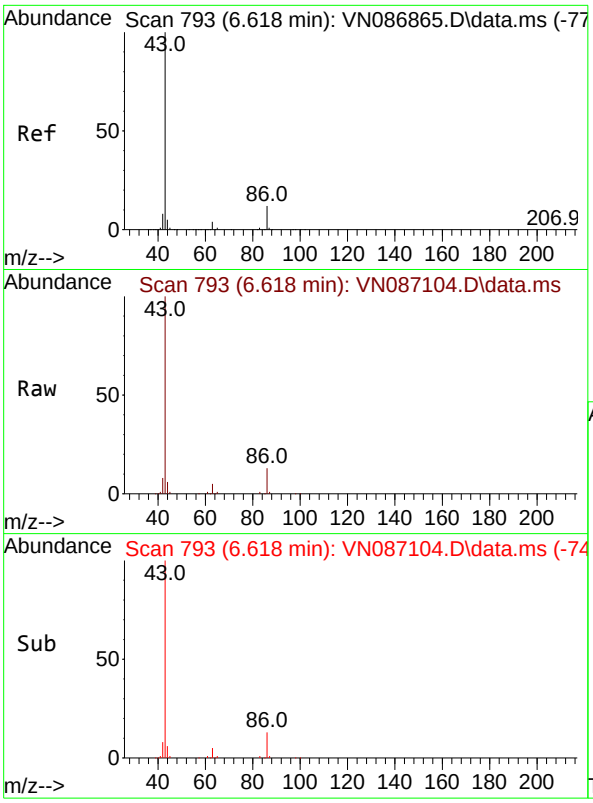


#22
Diisopropyl ether
Concen: 17.793 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 45 Resp: 116762

Ion	Ratio	Lower	Upper
45	100		
43	50.6	41.9	62.9
87	31.7	22.4	33.6
59	12.6	9.8	14.6

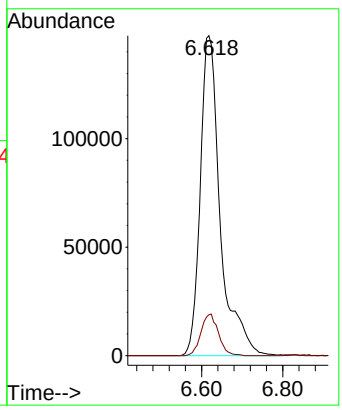




#23
Vinyl Acetate
Concen: 90.941 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 43 Resp: 50421

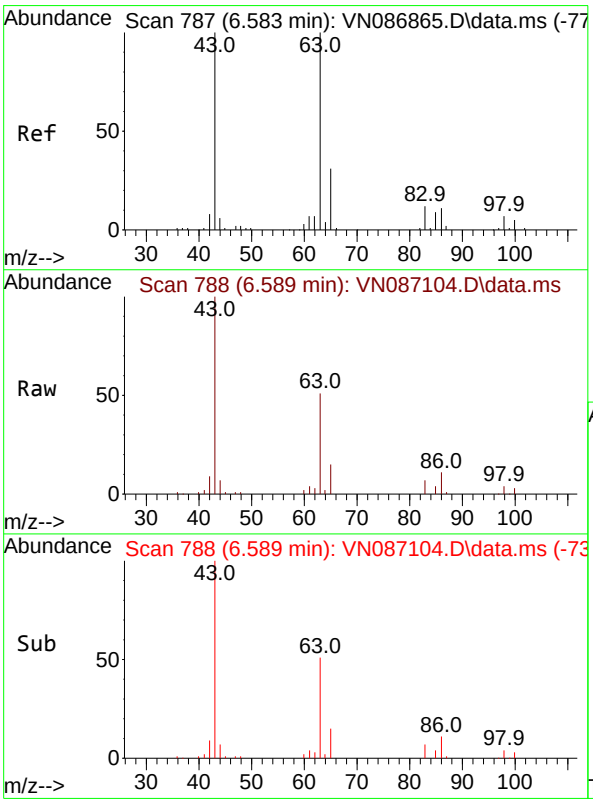
Ion	Ratio	Lower	Upper
43	100		
86	12.8	9.5	14.3



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

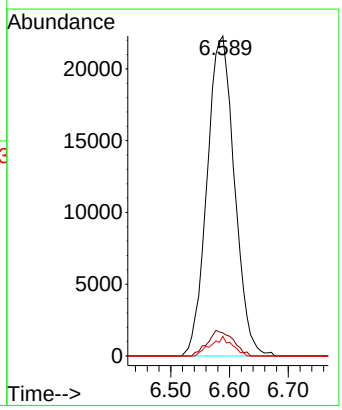
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

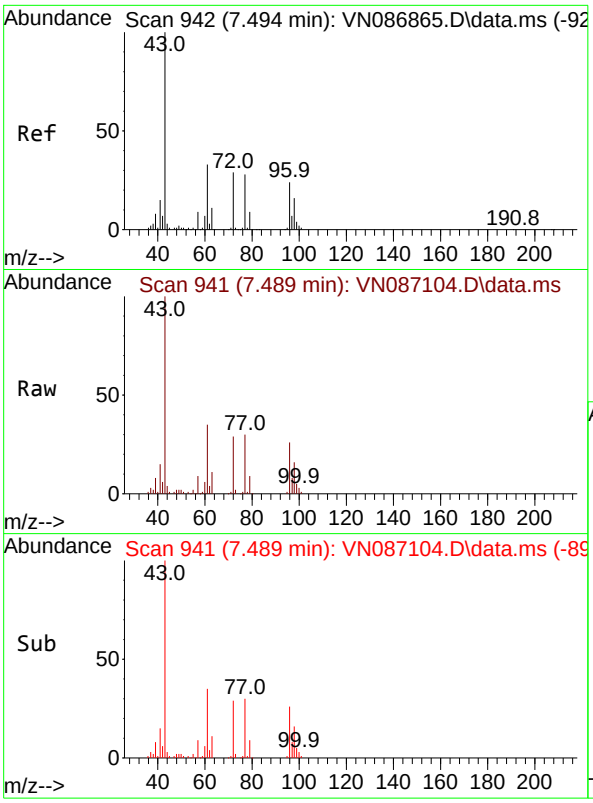


#24
1,1-Dichloroethane
Concen: 19.121 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 63 Resp: 72207

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	6.2	2.6	7.8





#25
2-Butanone
Concen: 81.516 ug/l
RT: 7.489 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

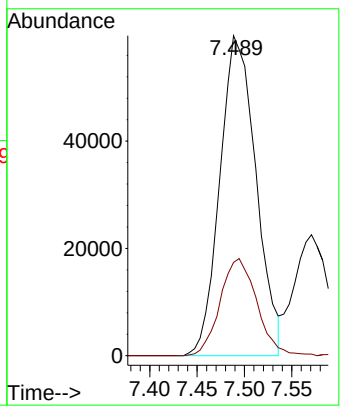
Tgt Ion: 43 Resp: 15866

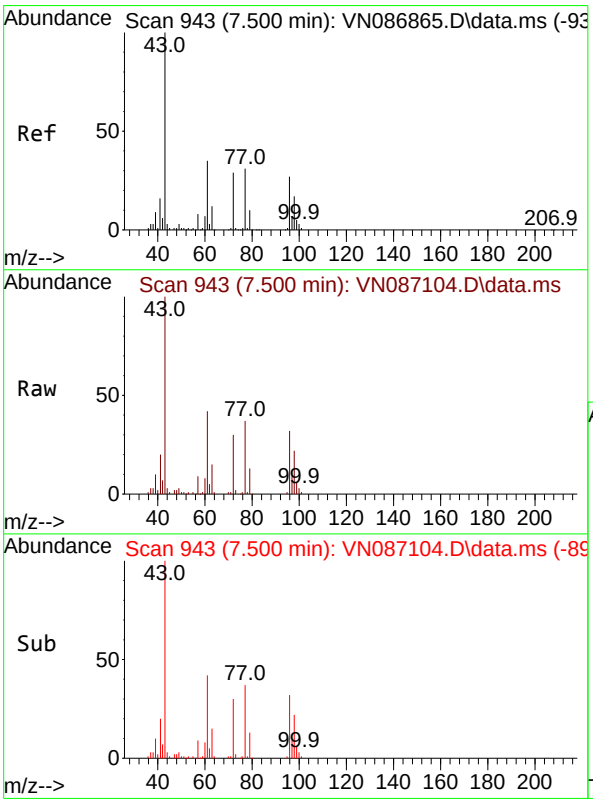
Ion	Ratio	Lower	Upper
43	100		
72	29.1	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

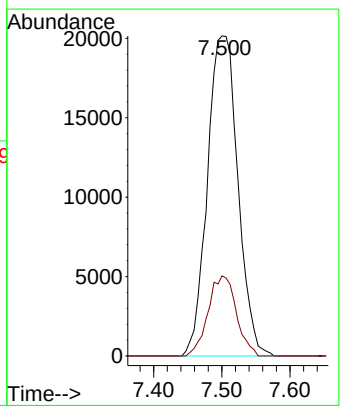


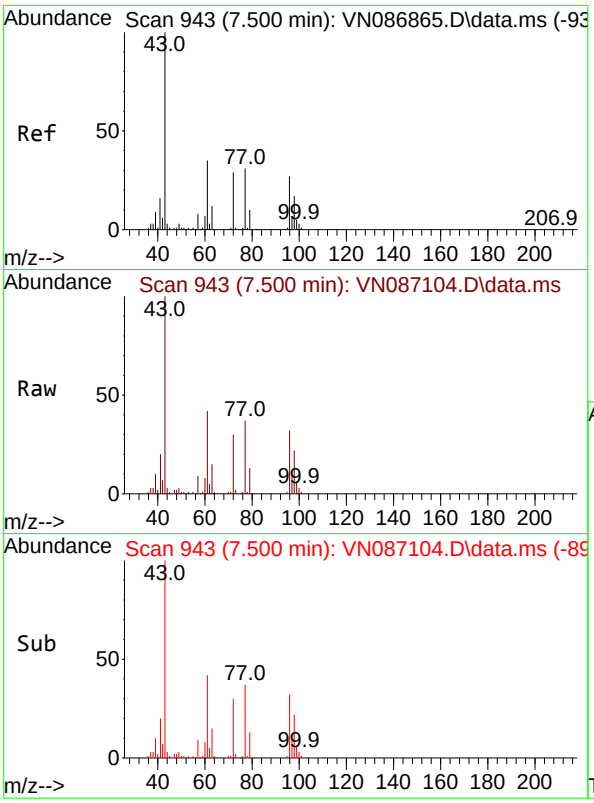


#26
2,2-Dichloropropane
Concen: 21.356 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 77 Resp: 62735

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.6	34.7

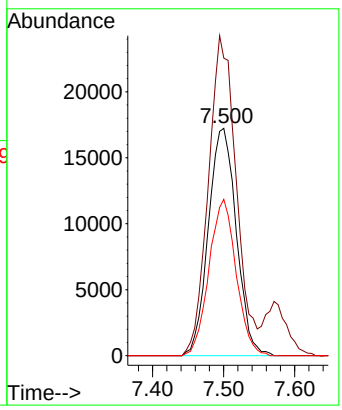




#27
cis-1,2-Dichloroethene
Concen: 18.881 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 96 Resp: 4715

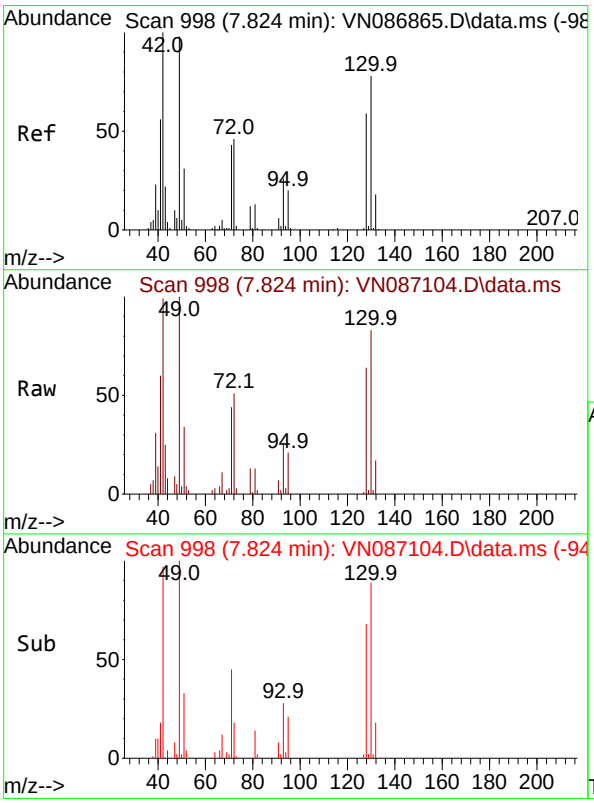
Ion	Ratio	Lower	Upper
96	100		
61	139.6	0.0	278.0
98	66.6	0.0	128.2



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

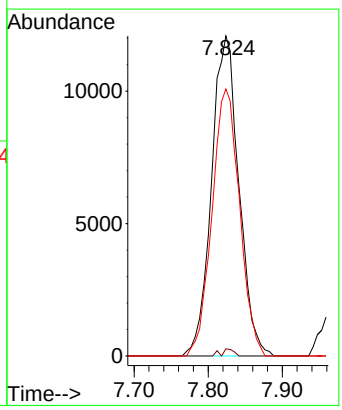
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

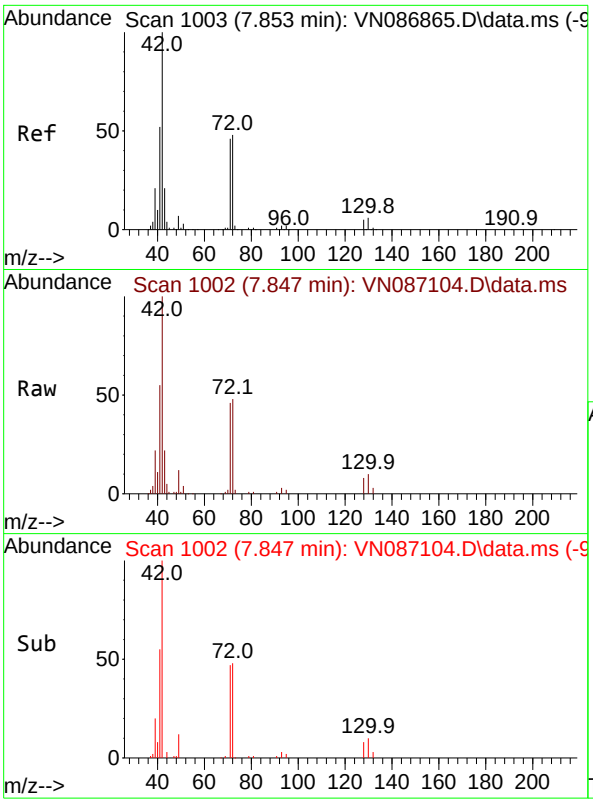


#28
Bromochloromethane
Concen: 16.679 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 49 Resp: 30970

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.8
130	83.9	62.2	93.2

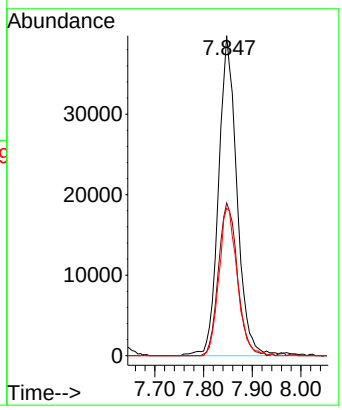




#29
Tetrahydrofuran
Concen: 82.062 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 42 Resp: 10405

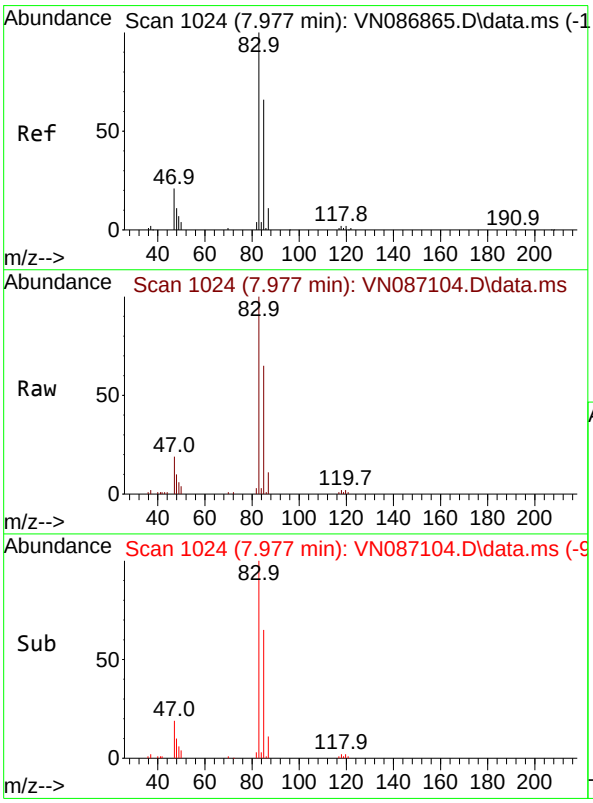
Ion	Ratio	Lower	Upper
42	100		
72	49.3	37.8	56.6
71	46.3	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

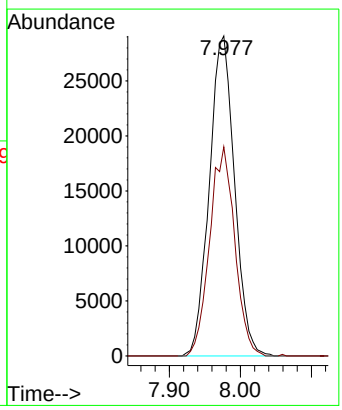
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

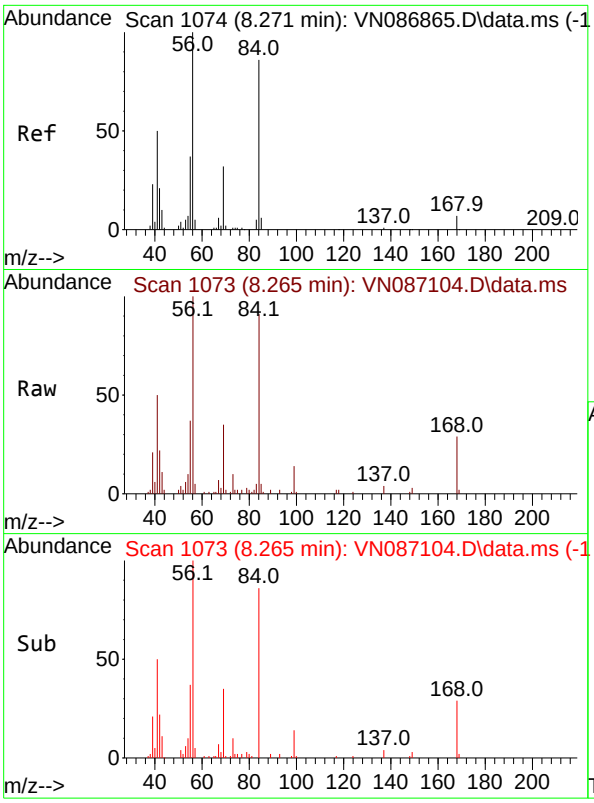


#30
Chloroform
Concen: 19.032 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 83 Resp: 71775

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.9	79.3

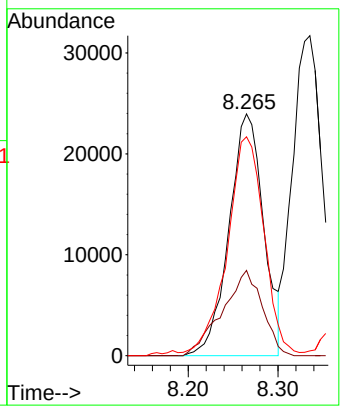




#31
Cyclohexane
Concen: 17.542 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 56 Resp: 6424

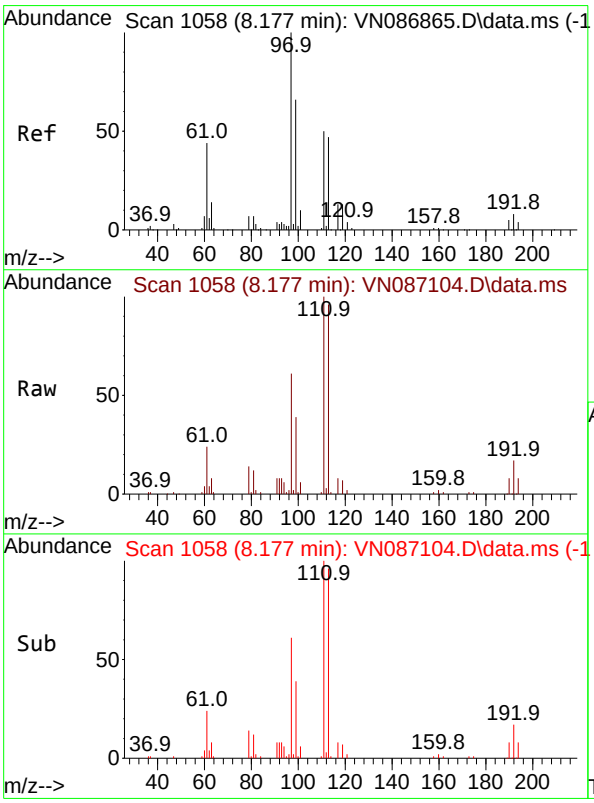
Ion	Ratio	Lower	Upper
56	100		
69	35.3	25.4	38.0
84	89.3	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

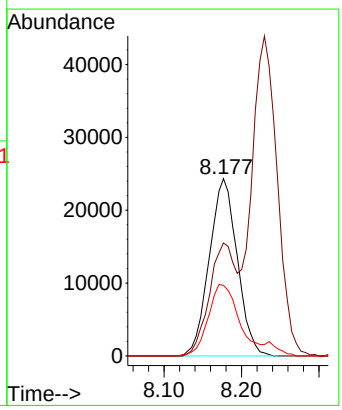
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

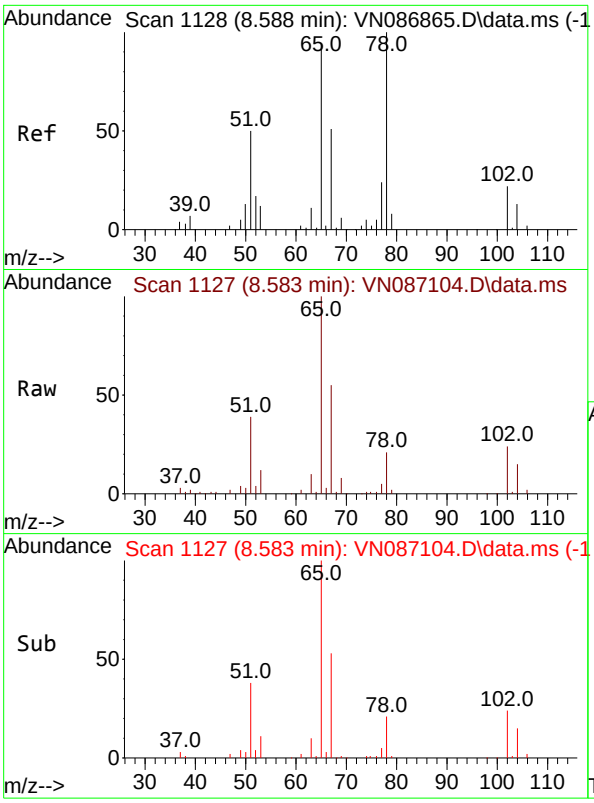


#32
1,1,1-Trichloroethane
Concen: 19.019 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 97 Resp: 61007

Ion	Ratio	Lower	Upper
97	100		
99	59.3	52.0	78.0
61	48.3	35.9	53.9

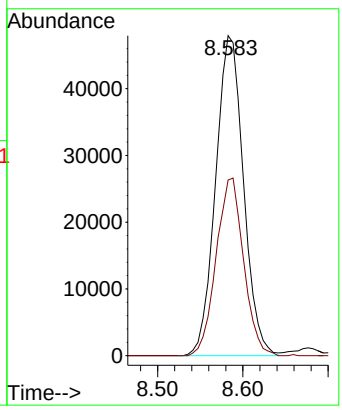




#33
1,2-Dichloroethane-d4
Concen: 48.261 ug/l
RT: 8.583 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 65 Resp: 10897

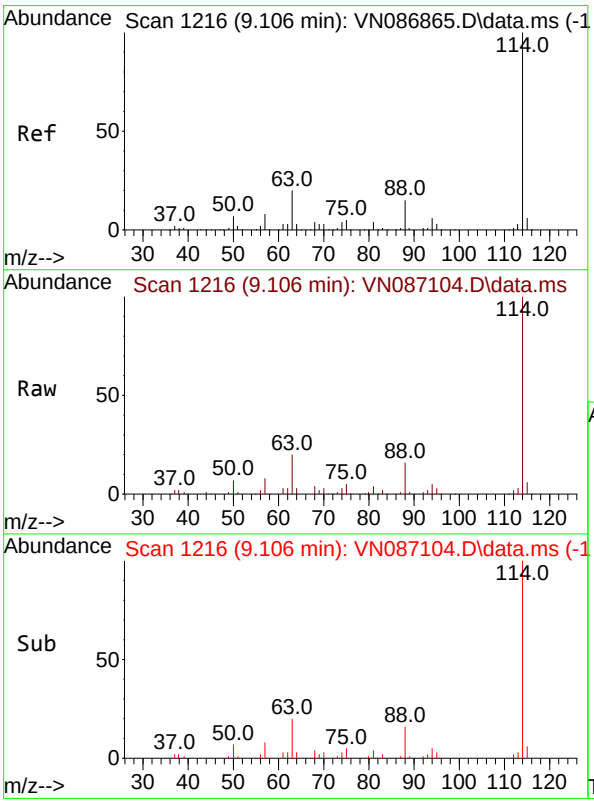
Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	105.6



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations APPROVED

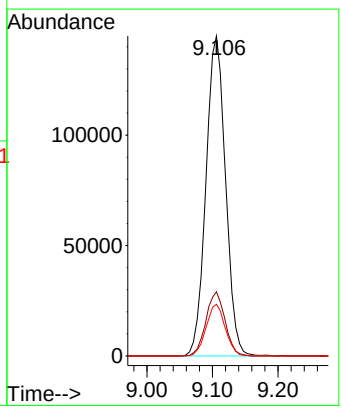
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

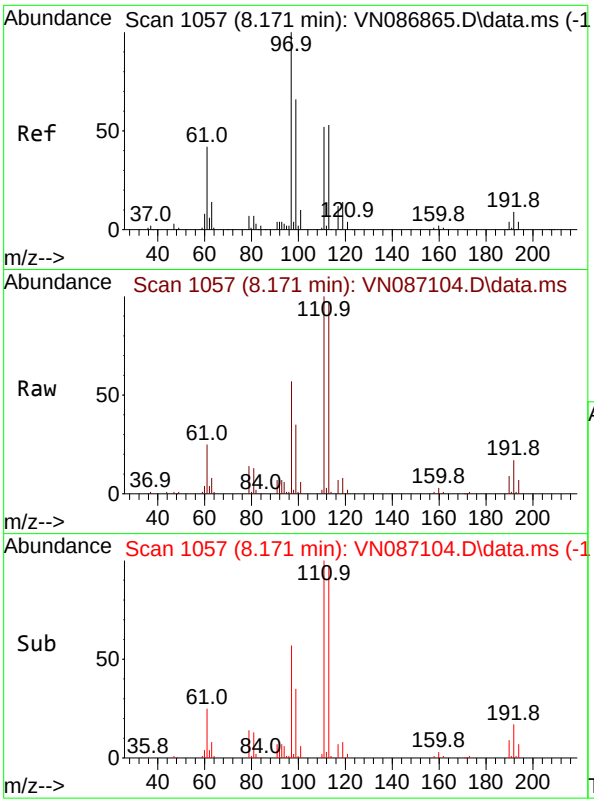


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:114 Resp: 300634

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.6
88	16.2	0.0	30.2

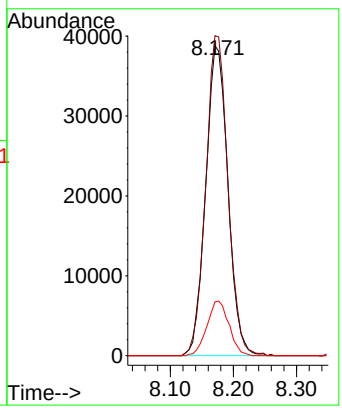




#35
Dibromofluoromethane
Concen: 53.349 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:113 Resp: 9504

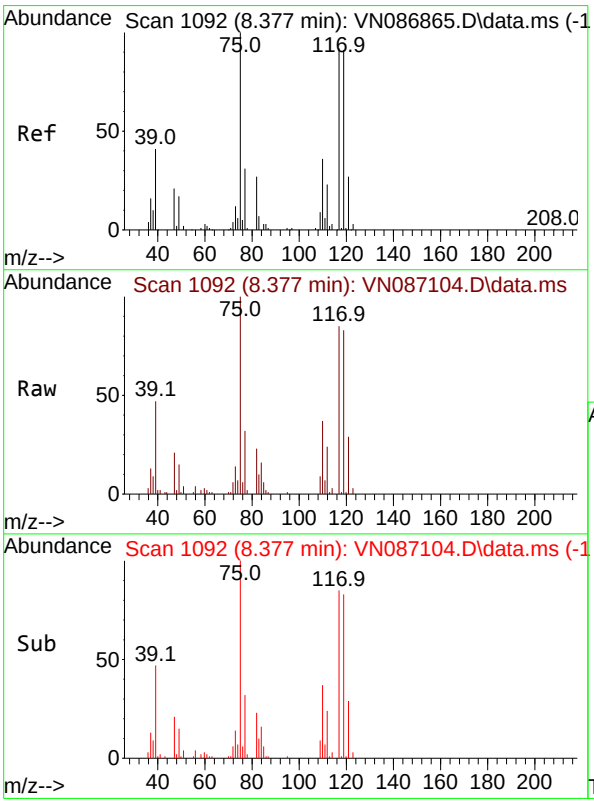
Ion	Ratio	Lower	Upper
113	100		
111	102.6	84.2	126.2
192	17.5	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

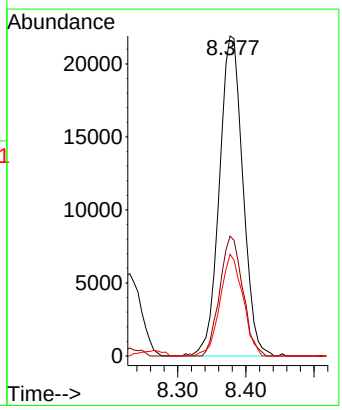
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

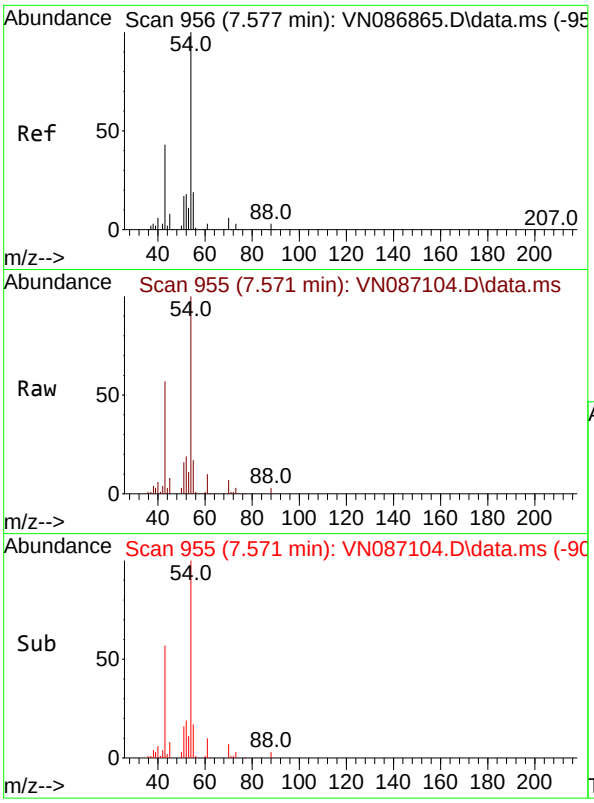


#36
1,1-Dichloropropene
Concen: 19.776 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 75 Resp: 52501

Ion	Ratio	Lower	Upper
75	100		
110	36.6	17.6	52.9
77	31.0	25.3	37.9





#37
Ethyl Acetate
Concen: 17.955 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

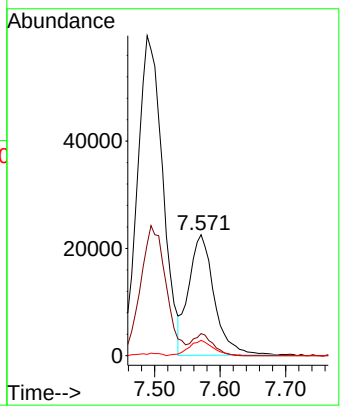
Tgt Ion: 43 Resp: 6068

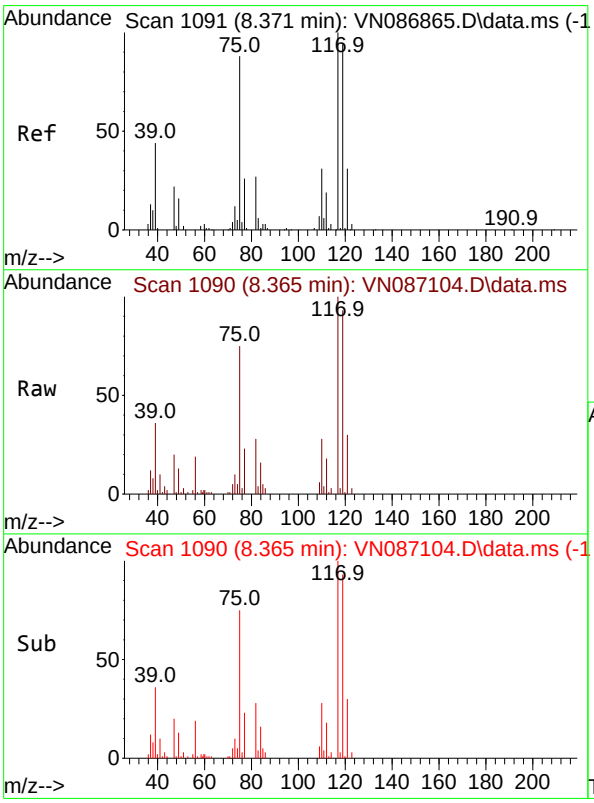
Ion	Ratio	Lower	Upper
43	100		
61	14.9	12.1	18.1
70	12.1	9.8	14.6

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

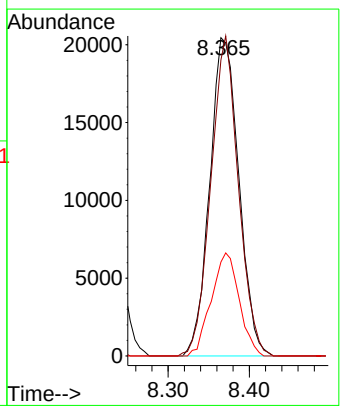


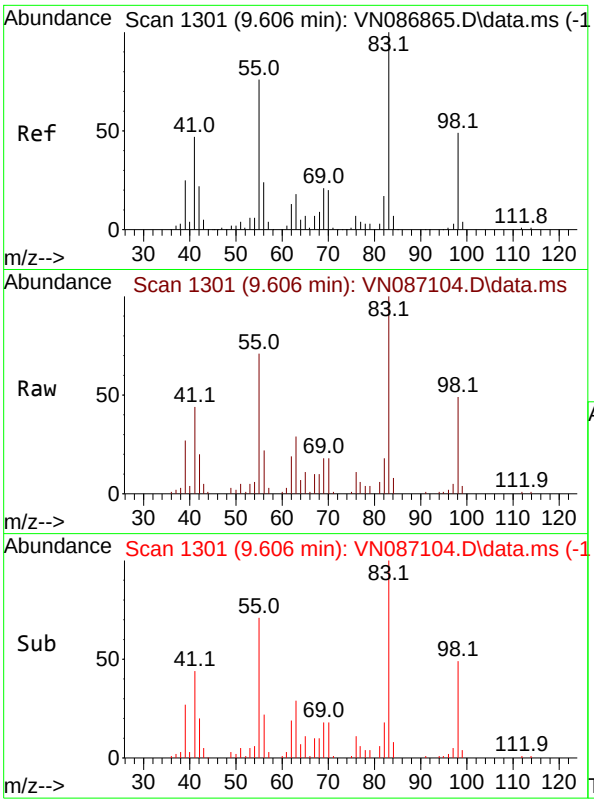


#38
Carbon Tetrachloride
Concen: 19.575 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:117 Resp: 51019

Ion	Ratio	Lower	Upper
117	100		
119	93.0	75.0	112.6
121	29.5	24.9	37.3

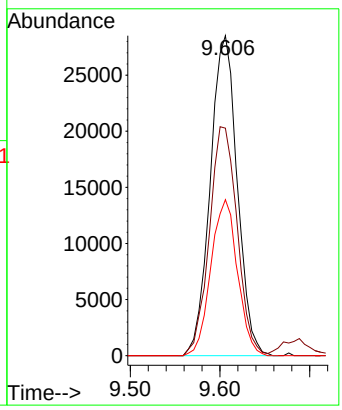




#39
Methylcyclohexane
Concen: 16.377 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 83 Resp: 5956

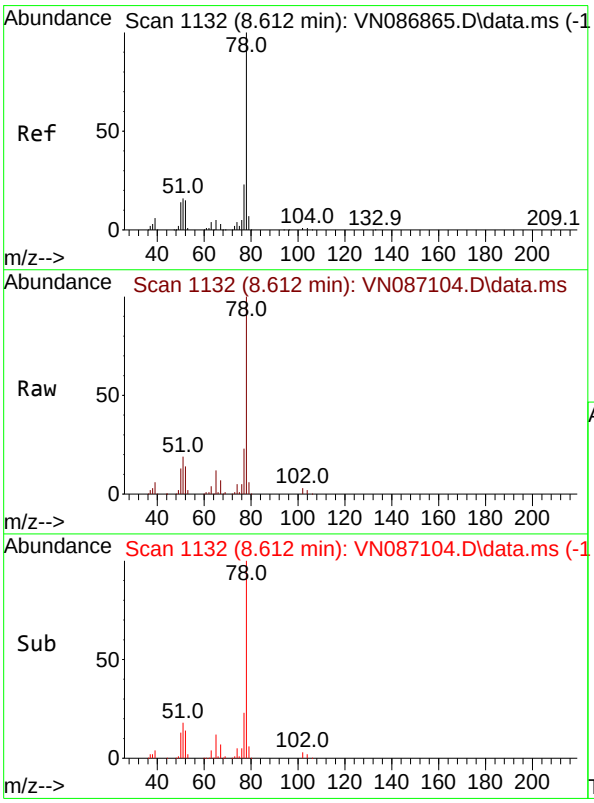
Ion	Ratio	Lower	Upper
83	100		
55	71.1	61.0	91.6
98	48.8	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

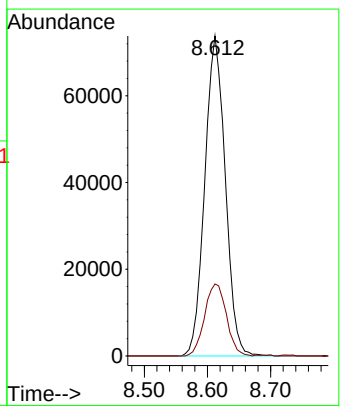
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

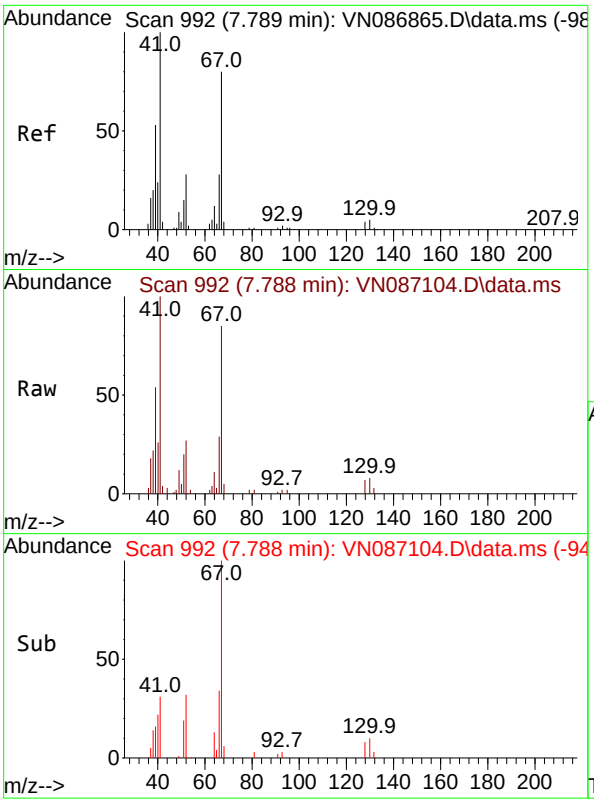


#40
Benzene
Concen: 19.178 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 78 Resp: 166491

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.7	28.1

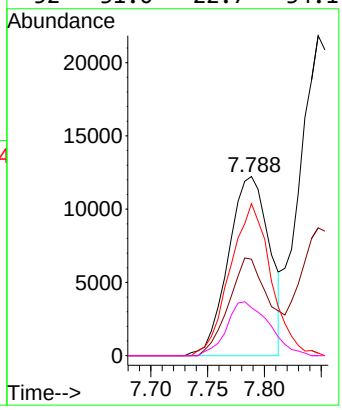




#41
Methacrylonitrile
Concen: 16.226 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 41 Resp: 3079

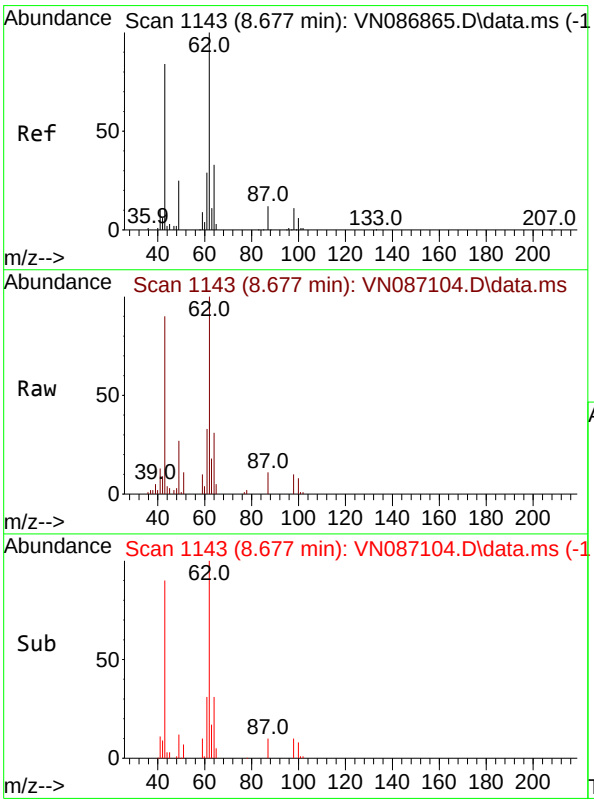
Ion	Ratio	Lower	Upper
41	100		
39	54.5	41.2	61.8
67	84.7	61.4	92.2
52	31.0	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

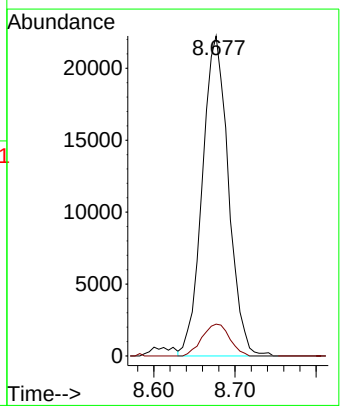
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

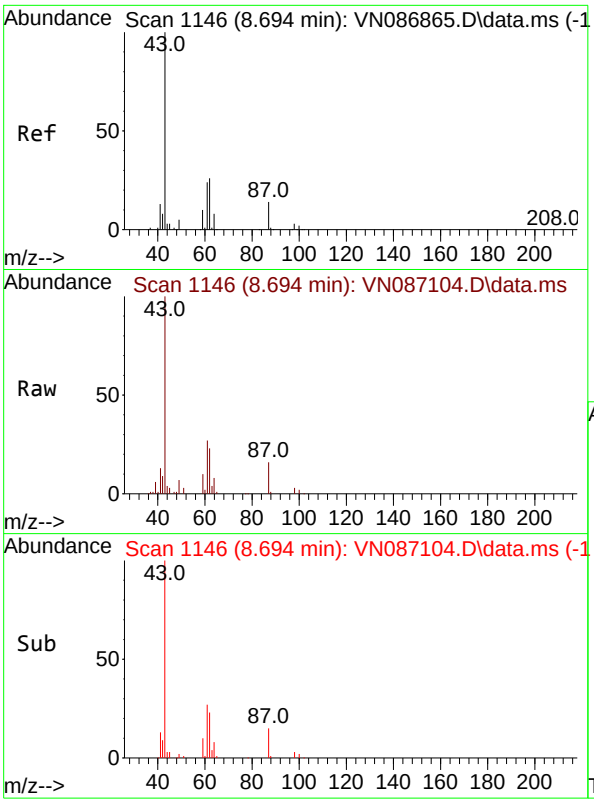


#42
1,2-Dichloroethane
Concen: 18.854 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 62 Resp: 49646

Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	21.2





#43
Isopropyl Acetate
Concen: 17.303 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

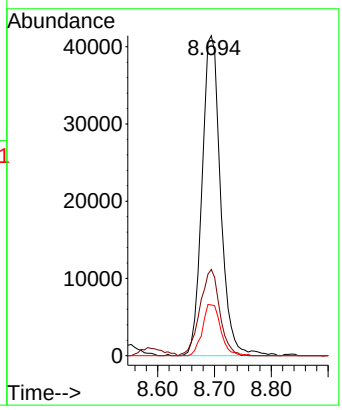
Tgt Ion: 43 Resp: 9385

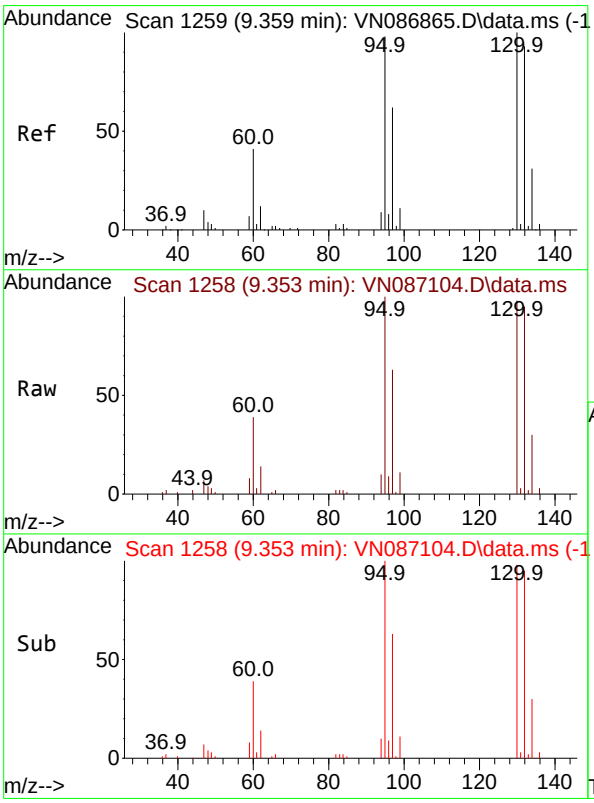
Ion	Ratio	Lower	Upper
43	100		
61	28.7	22.1	33.1
87	15.7	11.8	17.6

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

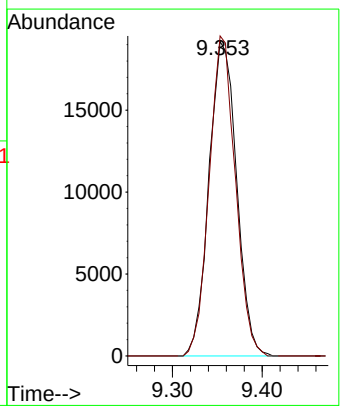


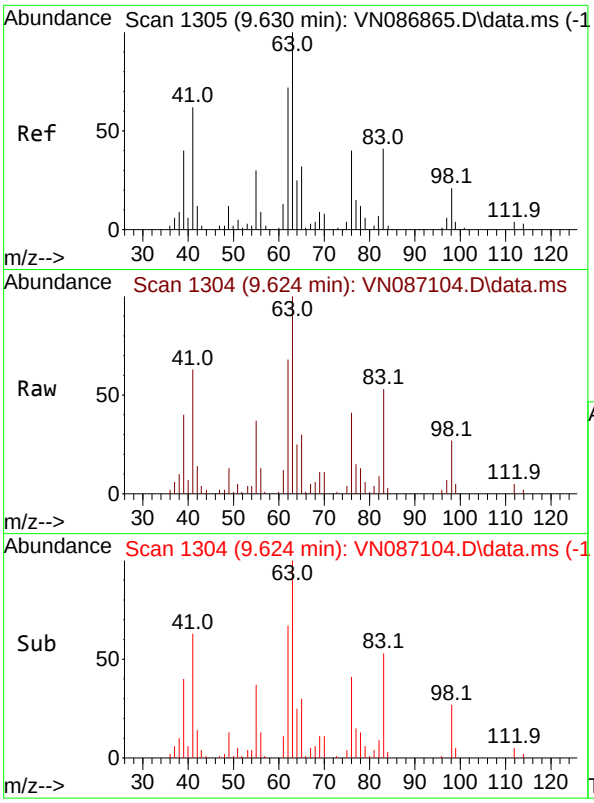


#44
Trichloroethene
Concen: 19.912 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:130 Resp: 40989

Ion	Ratio	Lower	Upper
130	100		
95	101.8	0.0	196.2

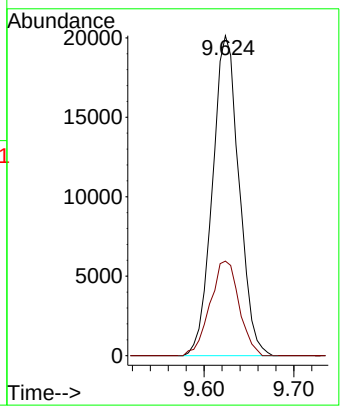




#45
1,2-Dichloropropane
Concen: 19.548 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 63 Resp: 4128

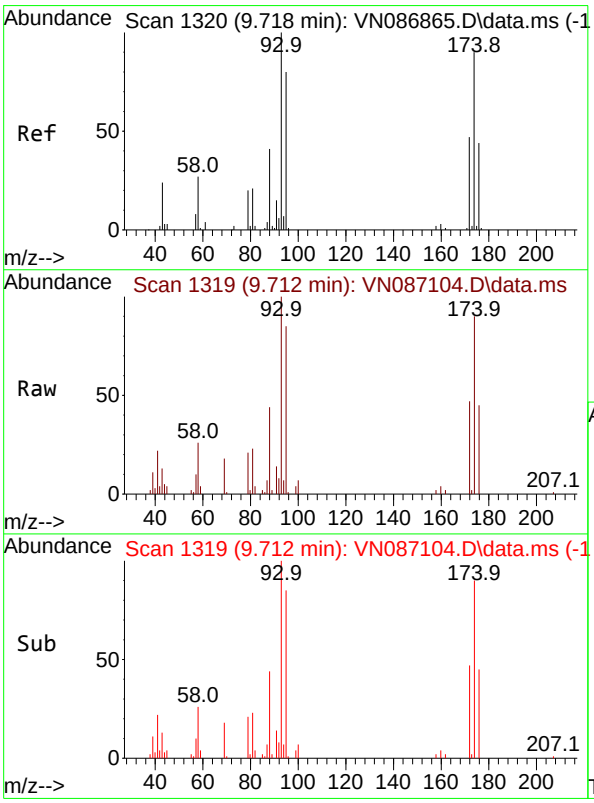
Ion	Ratio	Lower	Upper
63	100		
65	29.5	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

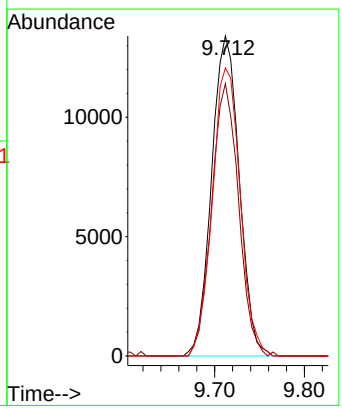
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

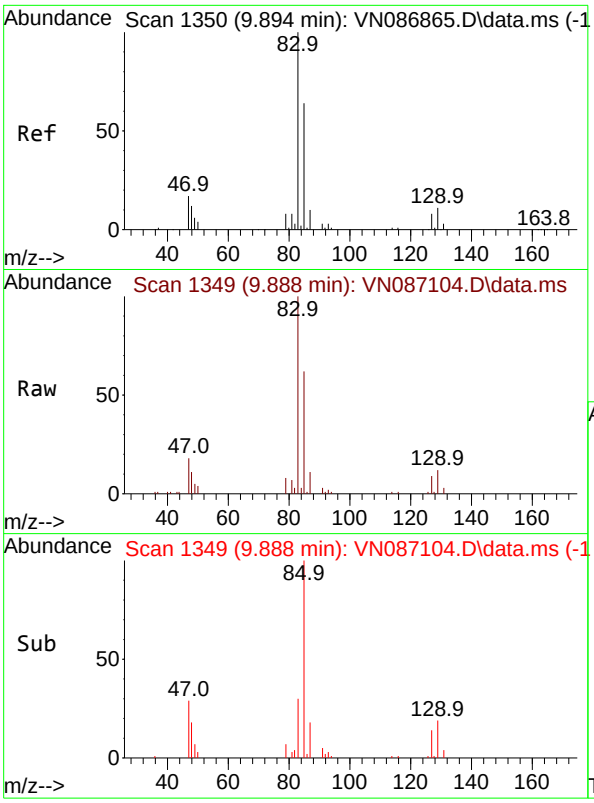


#46
Dibromomethane
Concen: 20.457 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 93 Resp: 28698

Ion	Ratio	Lower	Upper
93	100		
95	82.9	67.1	100.7
174	90.6	74.2	111.4

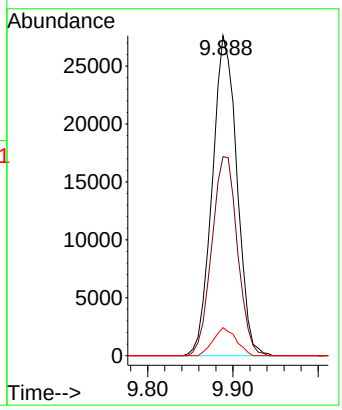




#47
Bromodichloromethane
Concen: 19.231 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 83 Resp: 5550

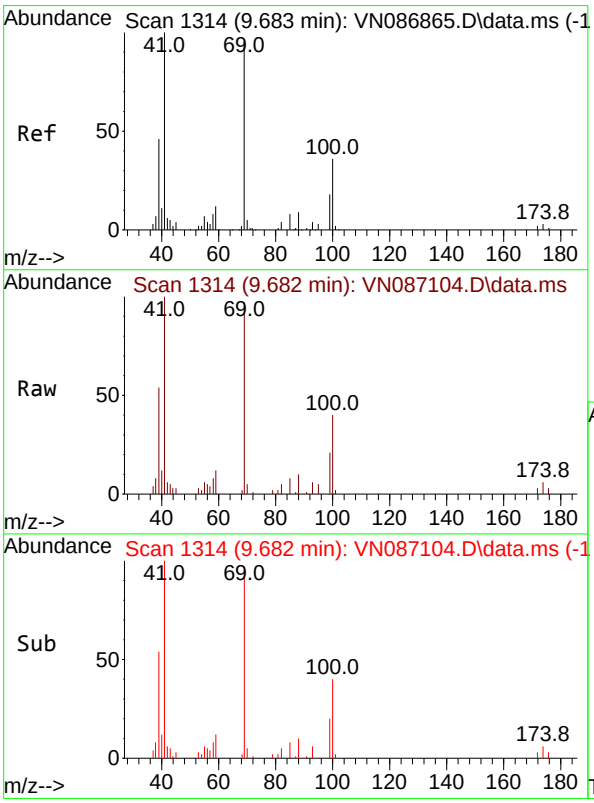
Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.9	76.3
127	8.8	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

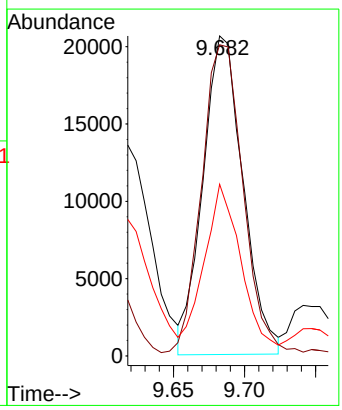
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

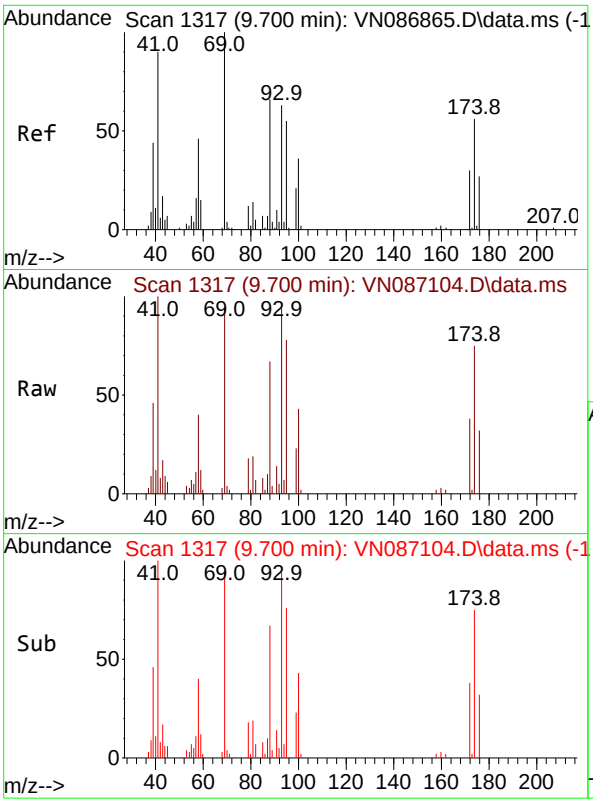


#48
Methyl methacrylate
Concen: 16.216 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 41 Resp: 40484

Ion	Ratio	Lower	Upper
41	100		
69	99.9	74.6	112.0
39	51.0	40.2	60.4





#49
1,4-Dioxane
Concen: 349.264 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

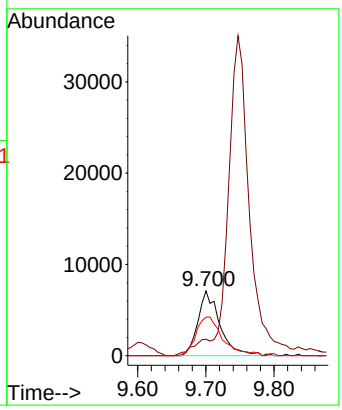
Tgt Ion: 88 Resp: 1586

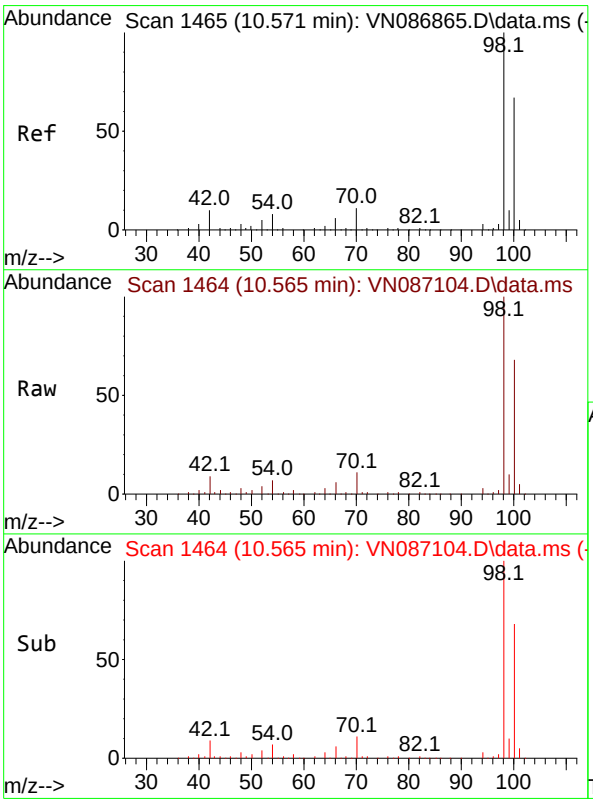
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	72.8	57.7	86.5

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

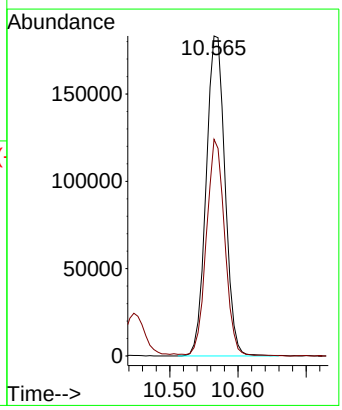


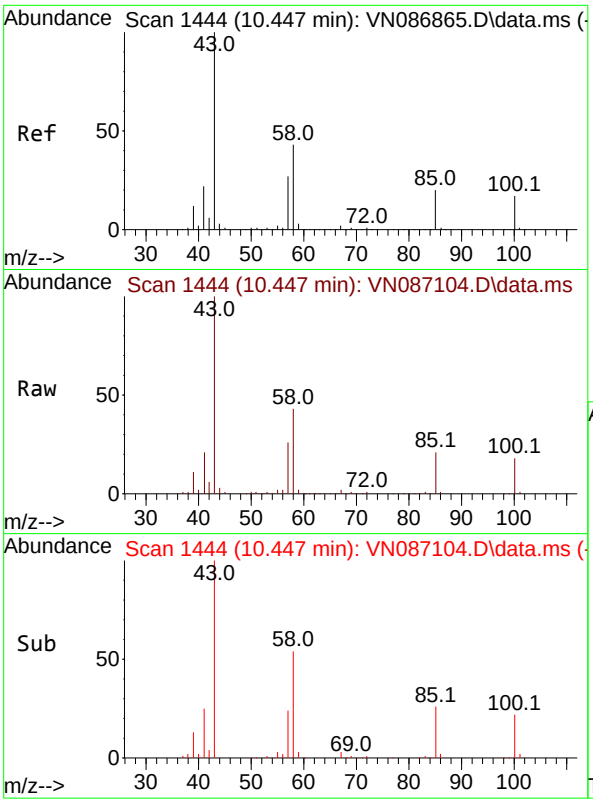


#50
Toluene-d8
Concen: 49.943 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 98 Resp: 352249

Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.4	80.0





#51
4-Methyl-2-Pentanone
Concen: 85.559 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

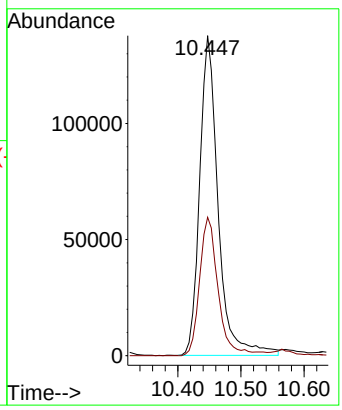
Tgt Ion: 43 Resp: 27938

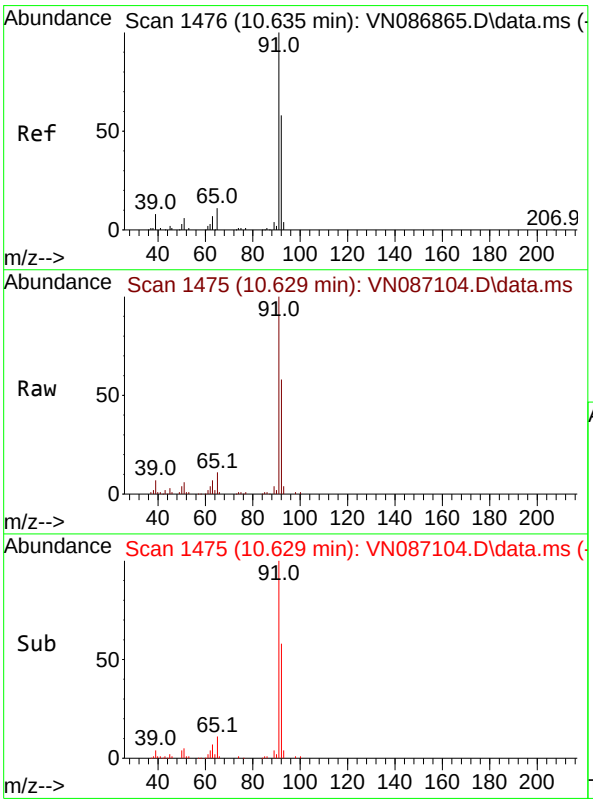
Ion	Ratio	Lower	Upper
43	100		
58	43.7	34.2	51.4

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

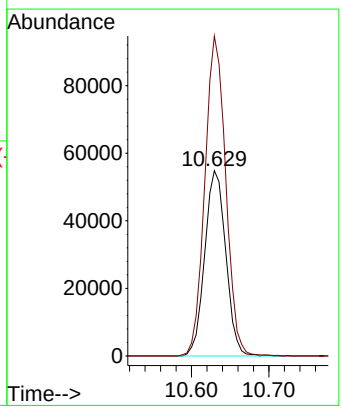


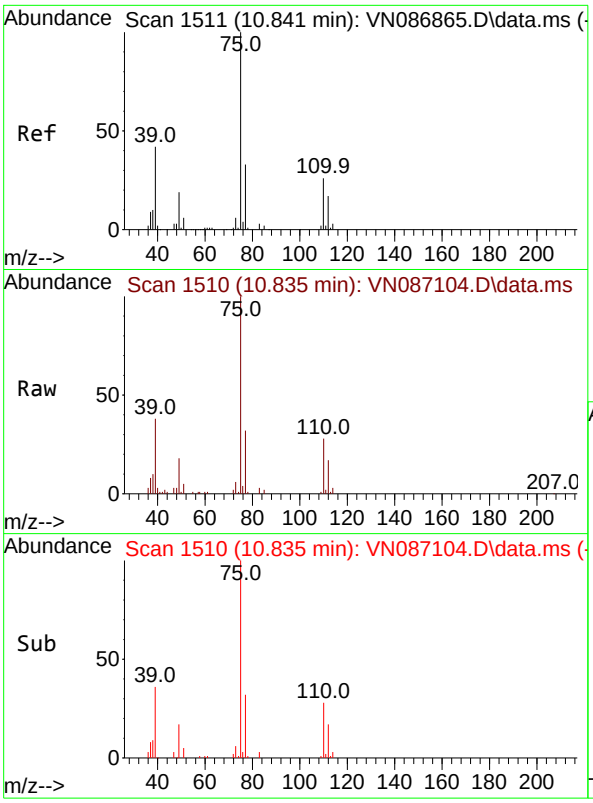


#52
Toluene
Concen: 19.487 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 92 Resp: 103384

Ion	Ratio	Lower	Upper
92	100		
91	171.6	136.5	204.7





#53
t-1,3-Dichloropropene
Concen: 19.028 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

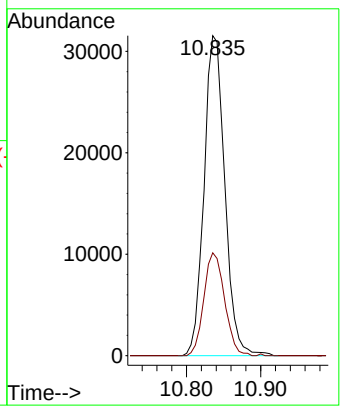
Tgt Ion: 75 Resp: 6141

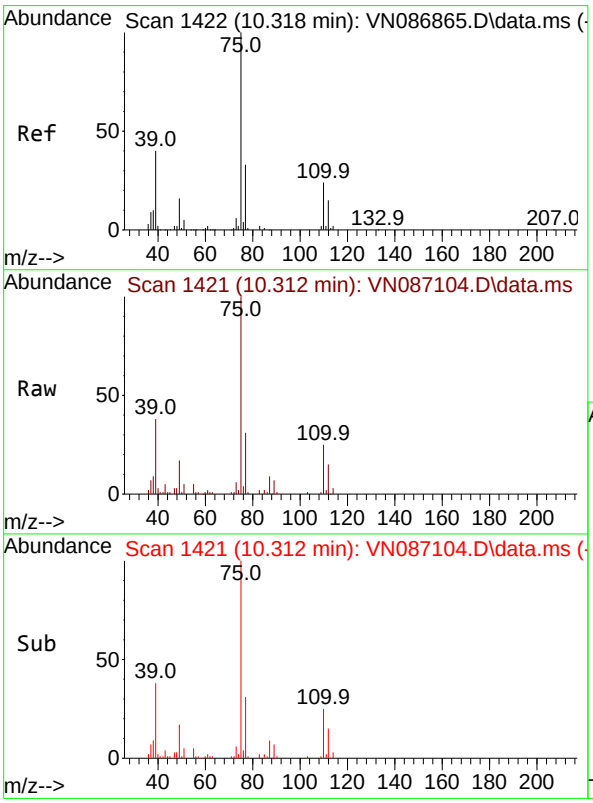
Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.4	39.6

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

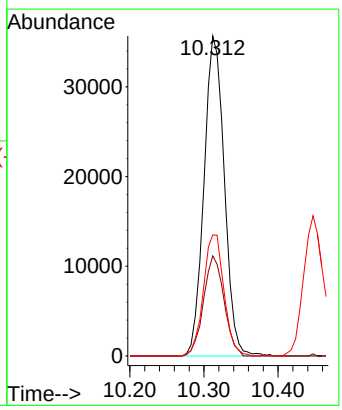


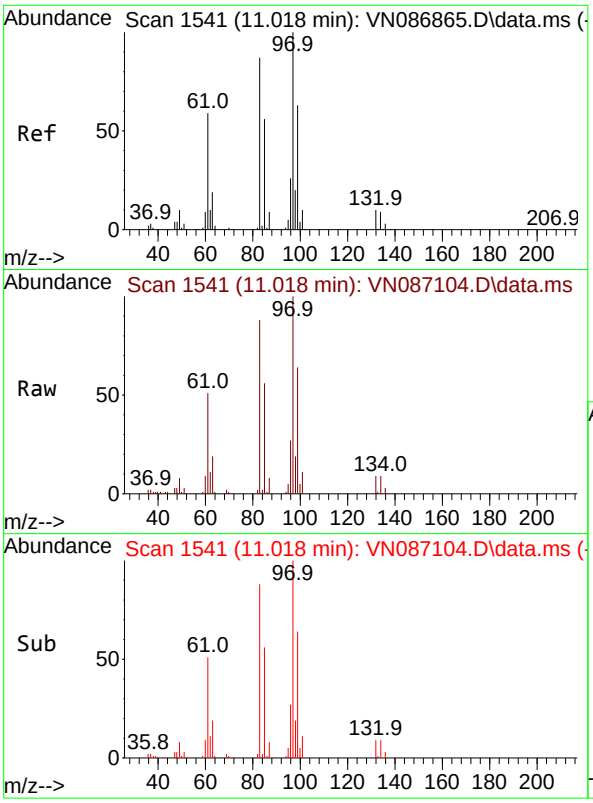


#54
cis-1,3-Dichloropropene
Concen: 19.730 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 75 Resp: 68133

Ion	Ratio	Lower	Upper
75	100		
77	31.3	26.2	39.4
39	37.8	32.3	48.5

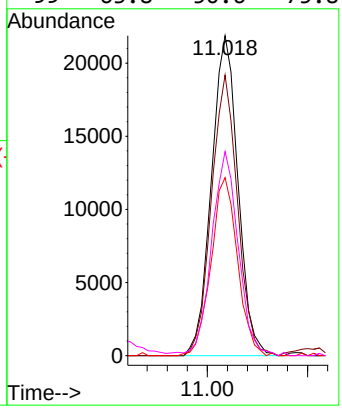




#55
1,1,2-Trichloroethane
Concen: 19.716 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 97 Resp: 4024

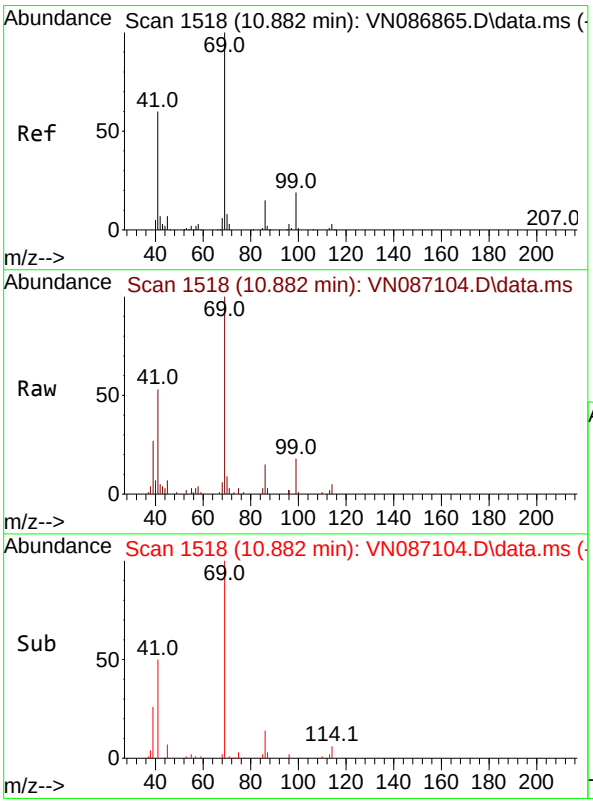
Ion	Ratio	Lower	Upper
97	100		
83	87.7	69.7	104.5
85	55.6	45.1	67.7
99	63.8	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations APPROVED

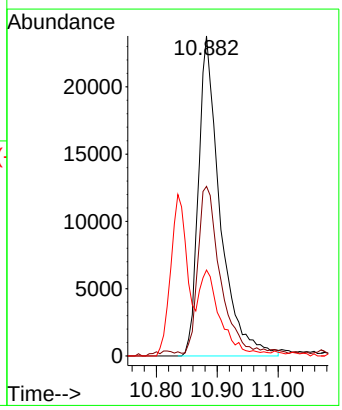
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

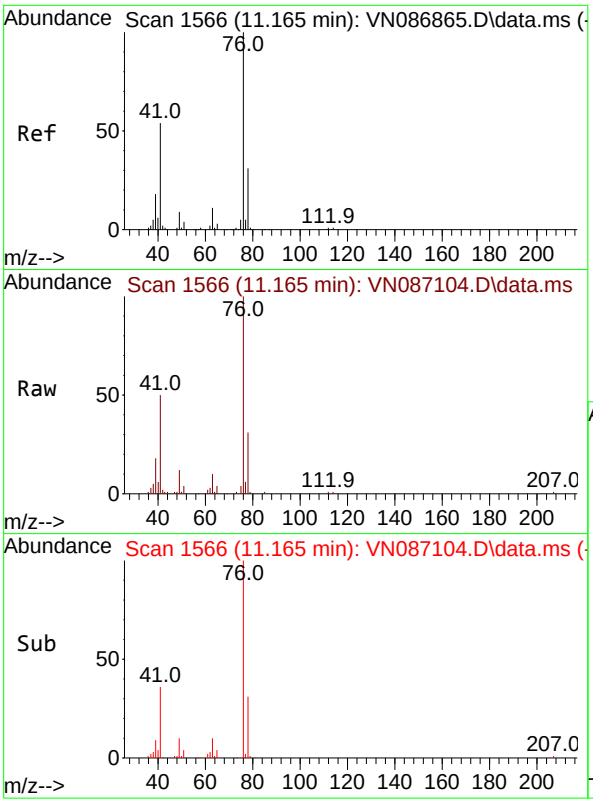


#56
Ethyl methacrylate
Concen: 18.024 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 69 Resp: 58604

Ion	Ratio	Lower	Upper
69	100		
41	54.1	47.2	70.8
39	26.1	23.0	34.6

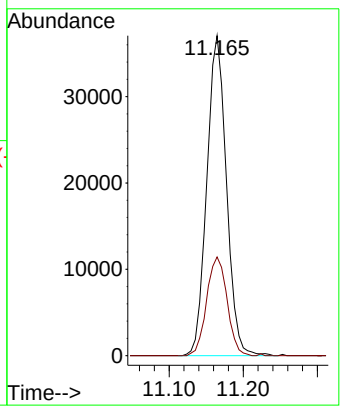




#57
1,3-Dichloropropane
Concen: 19.242 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 76 Resp: 6814

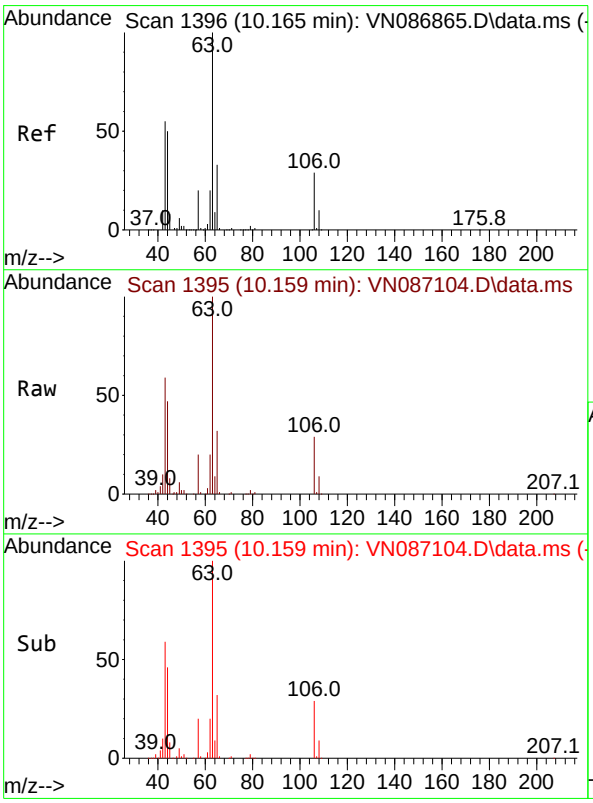
Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

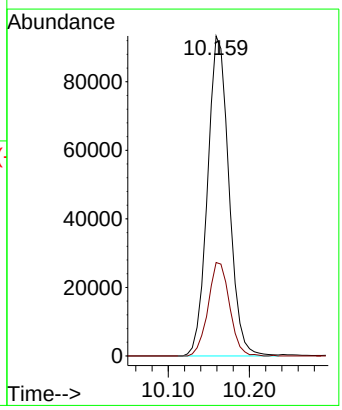
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

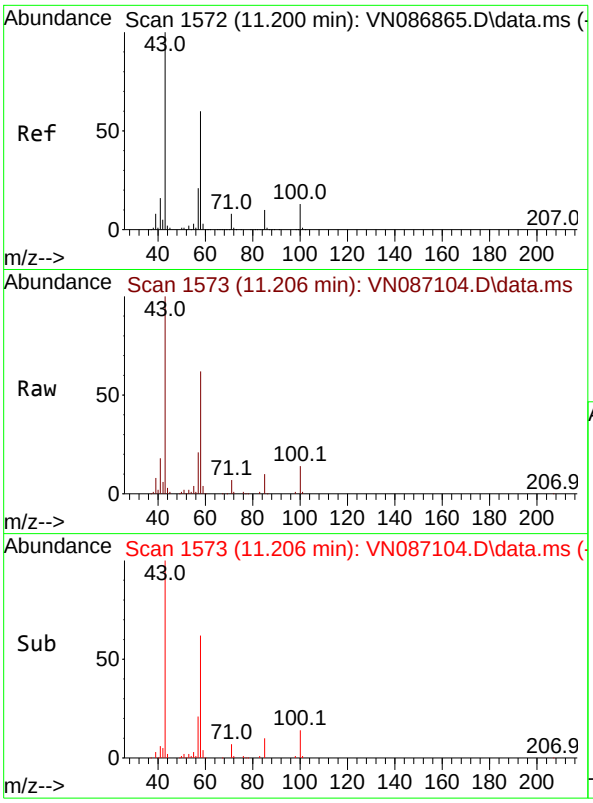


#58
2-Chloroethyl Vinyl ether
Concen: 88.120 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 63 Resp: 170894

Ion	Ratio	Lower	Upper
63	100		
106	29.3	23.0	34.6





#59
2-Hexanone
Concen: 75.642 ug/l
RT: 11.206 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

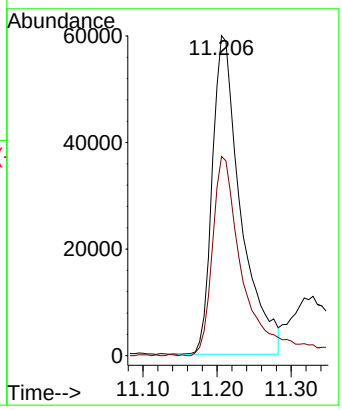
Tgt Ion: 43 Resp: 15910

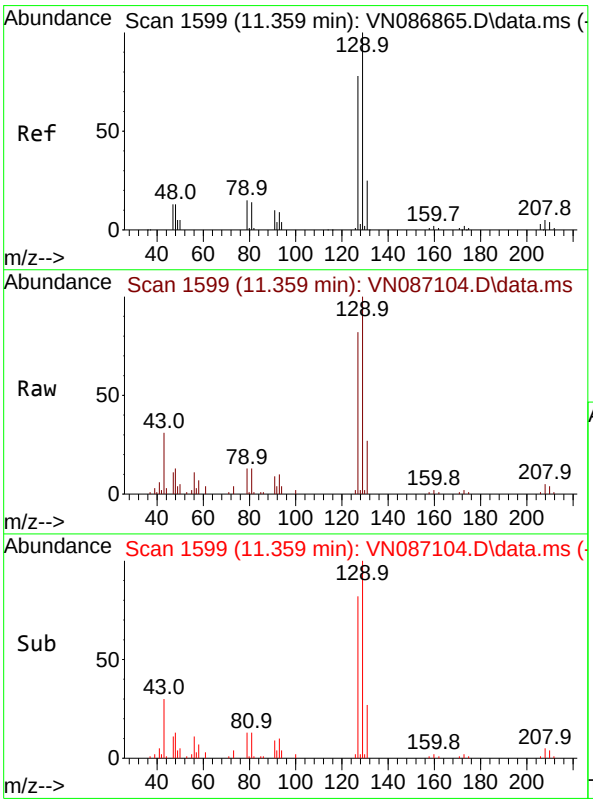
Ion	Ratio	Lower	Upper
43	100		
58	67.2	30.4	91.3

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

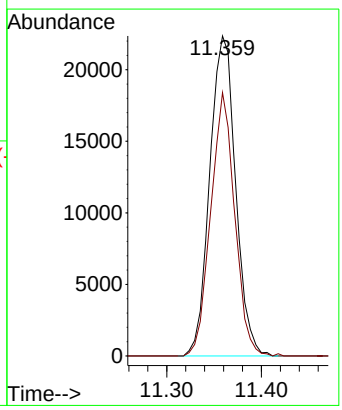


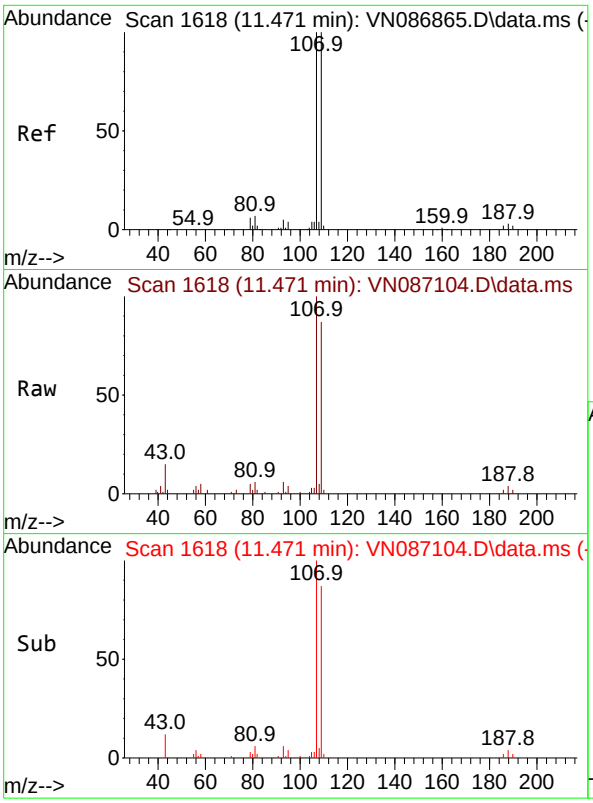


#60
Dibromochloromethane
Concen: 19.946 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:129 Resp: 42423

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.6	115.8





#61
1,2-Dibromoethane
Concen: 19.135 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

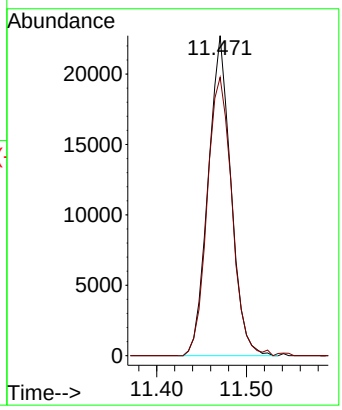
Tgt Ion:107 Resp: 4003

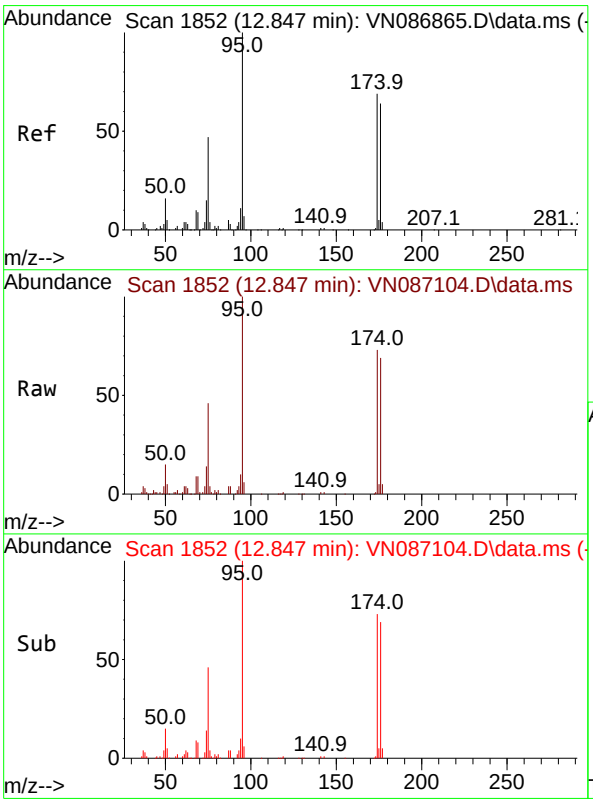
Ion	Ratio	Lower	Upper
107	100		
109	94.4	76.3	114.5

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

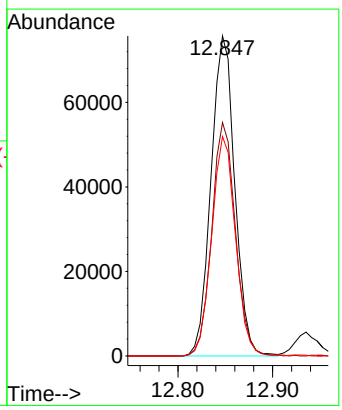


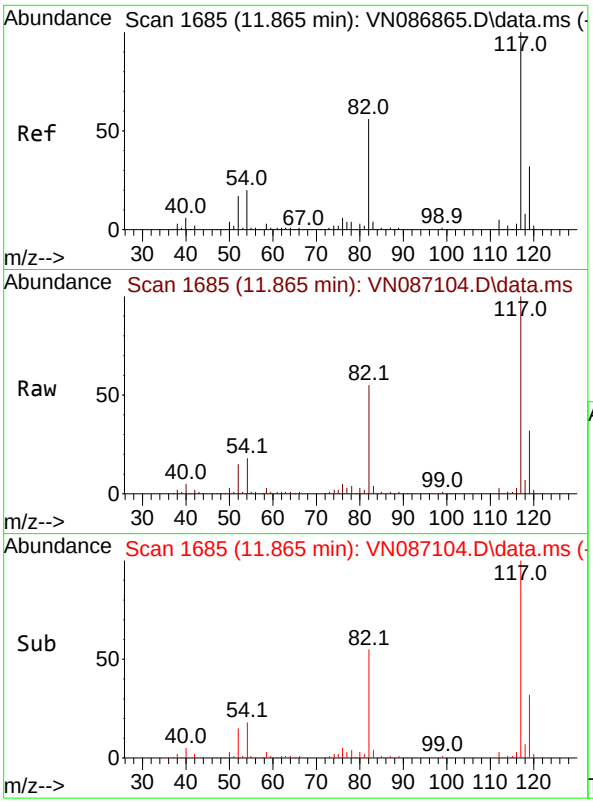


#62
4-Bromofluorobenzene
Concen: 50.328 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 95 Resp: 131878

Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	141.8
176	68.7	0.0	132.6

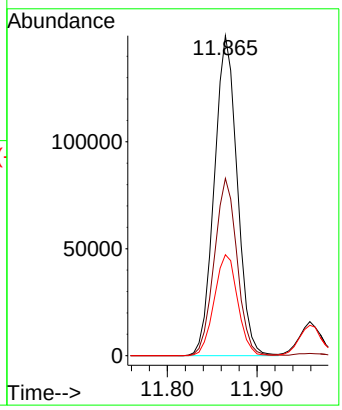




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:117 Resp: 26536

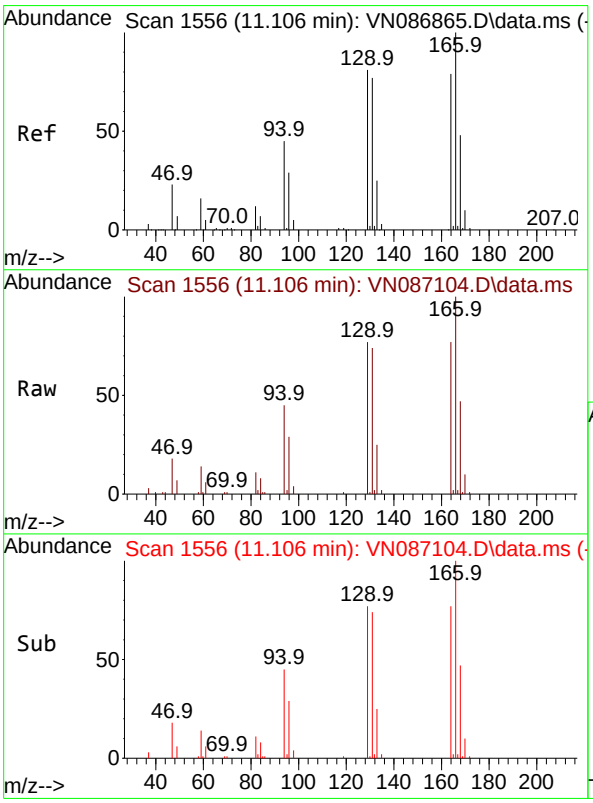
Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.6	67.0
119	31.6	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

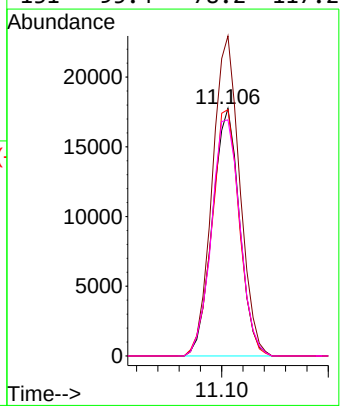
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

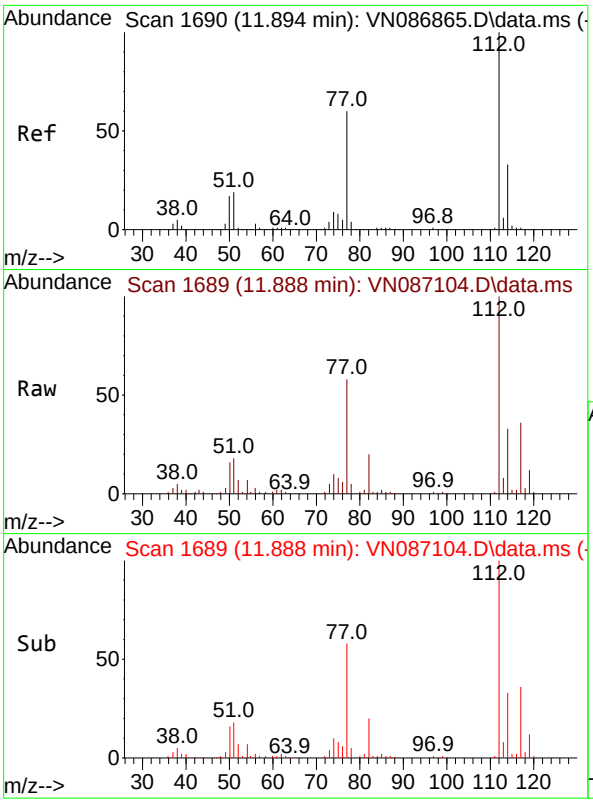


#64
Tetrachloroethene
Concen: 18.678 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:164 Resp: 31369

Ion	Ratio	Lower	Upper
164	100		
166	129.3	101.8	152.8
129	99.5	83.0	124.4
131	95.4	78.2	117.2

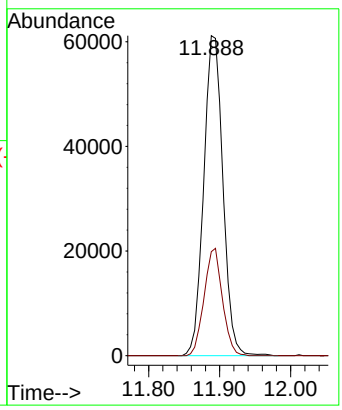




#65
Chlorobenzene
Concen: 19.648 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:112 Resp: 11499

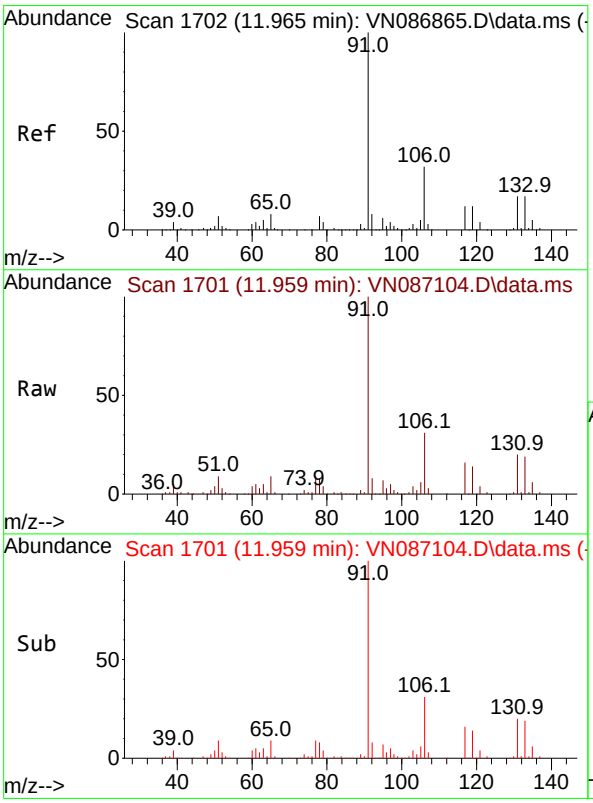
Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

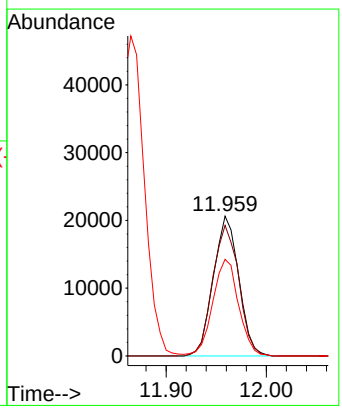
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

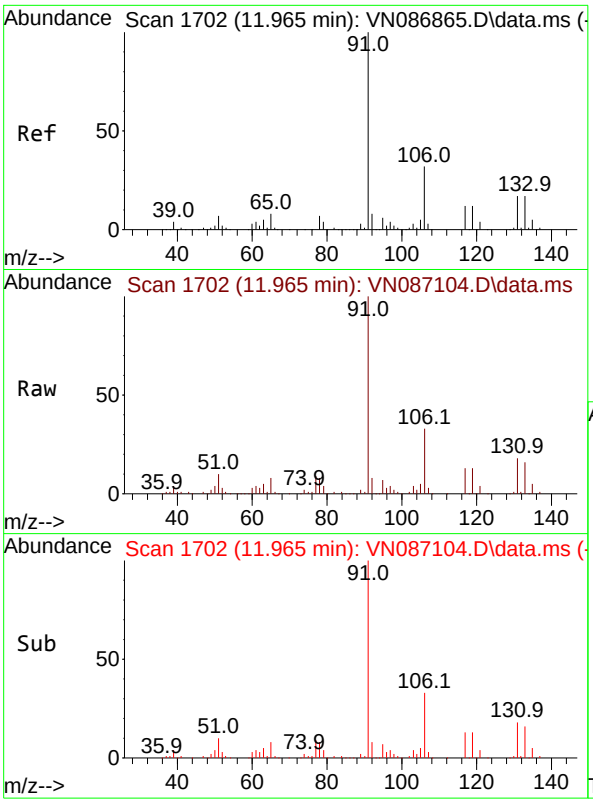


#66
1,1,1,2-Tetrachloroethane
Concen: 19.339 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:131 Resp: 36384

Ion	Ratio	Lower	Upper
131	100		
133	96.2	48.3	144.8
119	70.1	34.0	101.8

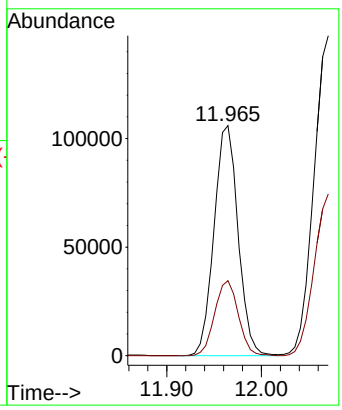




#67
Ethyl Benzene
Concen: 18.559 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 91 Resp: 18710

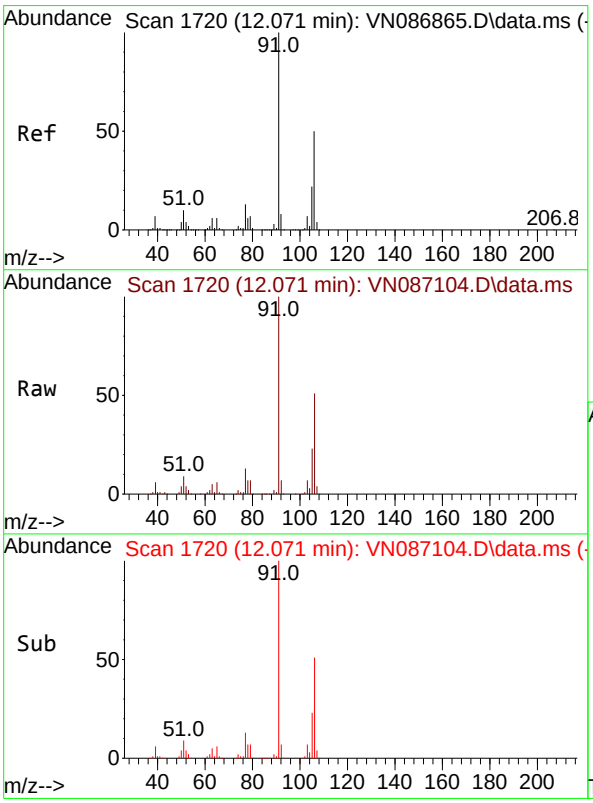
Ion	Ratio	Lower	Upper
91	100		
106	32.6	25.4	38.2



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

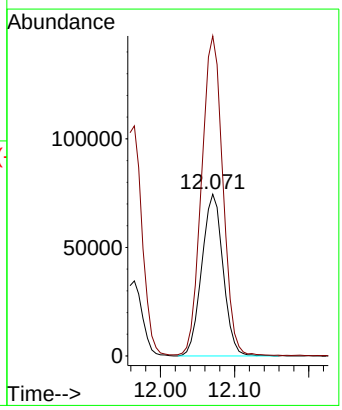
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

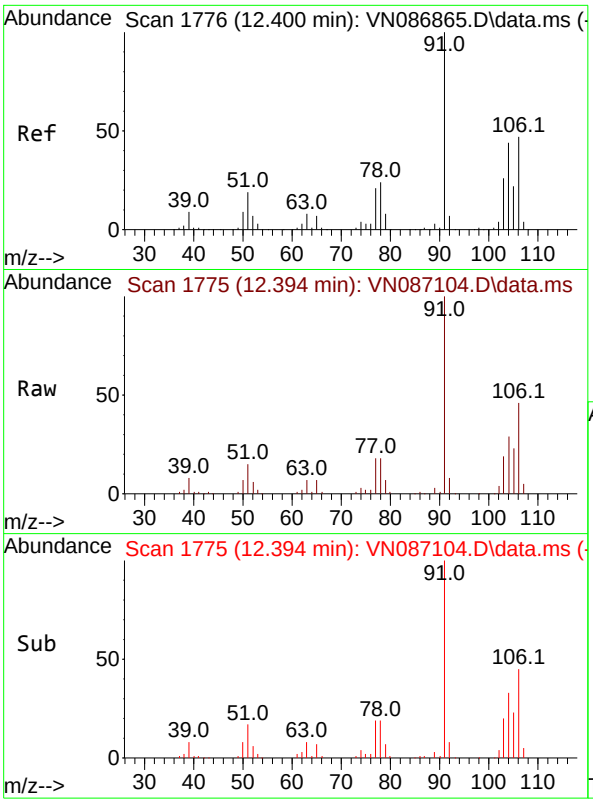


#68
m/p-Xylenes
Concen: 38.516 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:106 Resp: 148640

Ion	Ratio	Lower	Upper
106	100		
91	197.7	159.4	239.0





#69
o-Xylene
Concen: 18.678 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

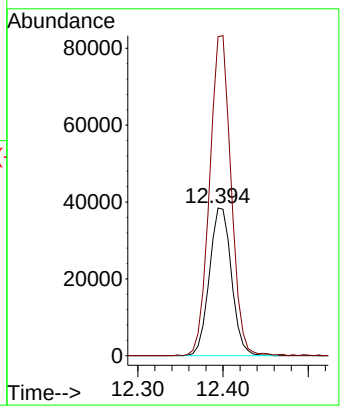
Tgt Ion:106 Resp: 6903

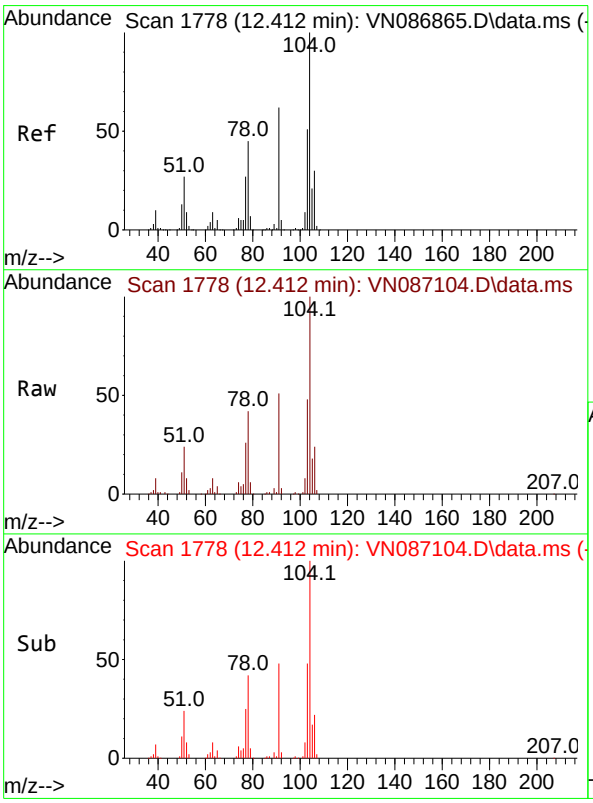
Ion	Ratio	Lower	Upper
106	100		
91	211.8	106.1	318.1

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

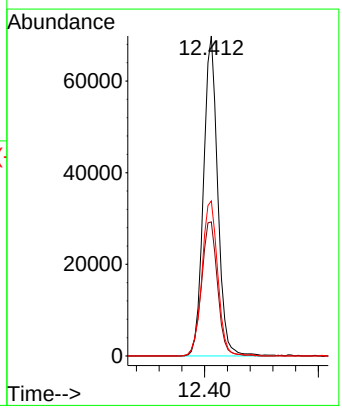


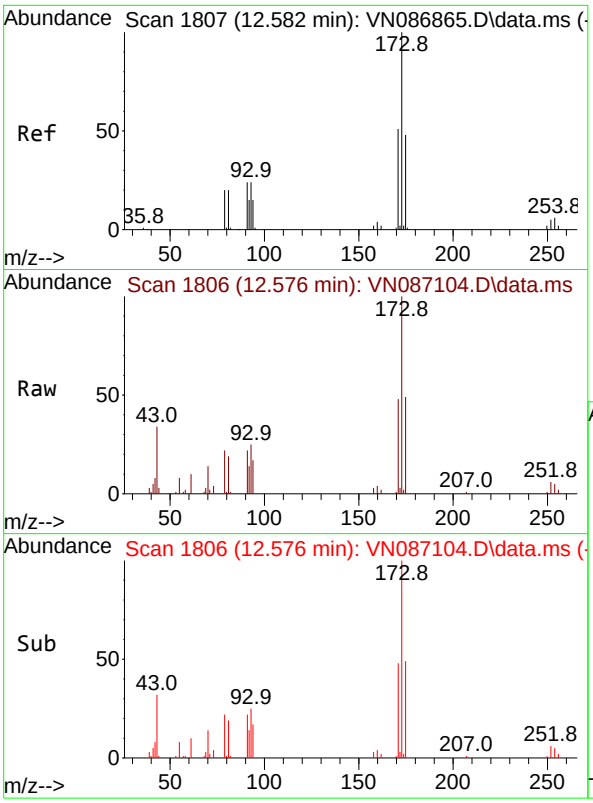


#70
Styrene
Concen: 19.185 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:104 Resp: 121336

Ion	Ratio	Lower	Upper
104	100		
78	47.0	38.5	57.7
103	53.5	43.1	64.7

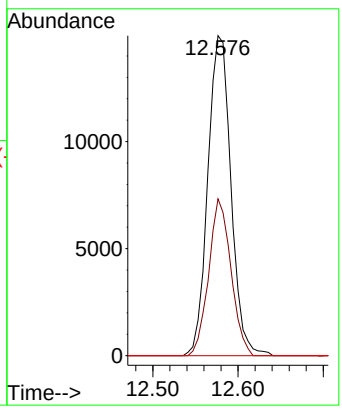




#71
Bromoform
Concen: 20.223 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:173 Resp: 2819

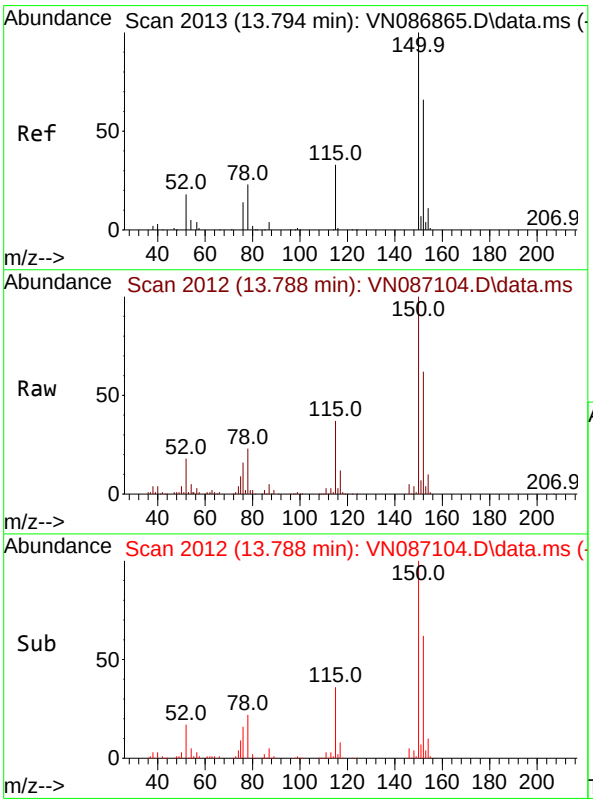
Ion	Ratio	Lower	Upper
173	100		
175	47.1	24.1	72.4
254	0.0	0.0	0.0



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations APPROVED

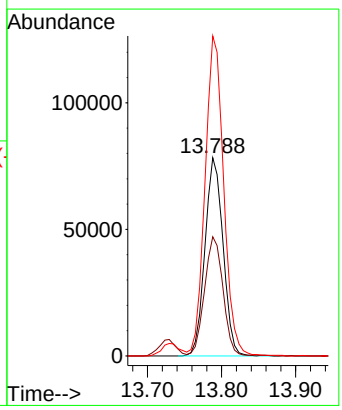
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

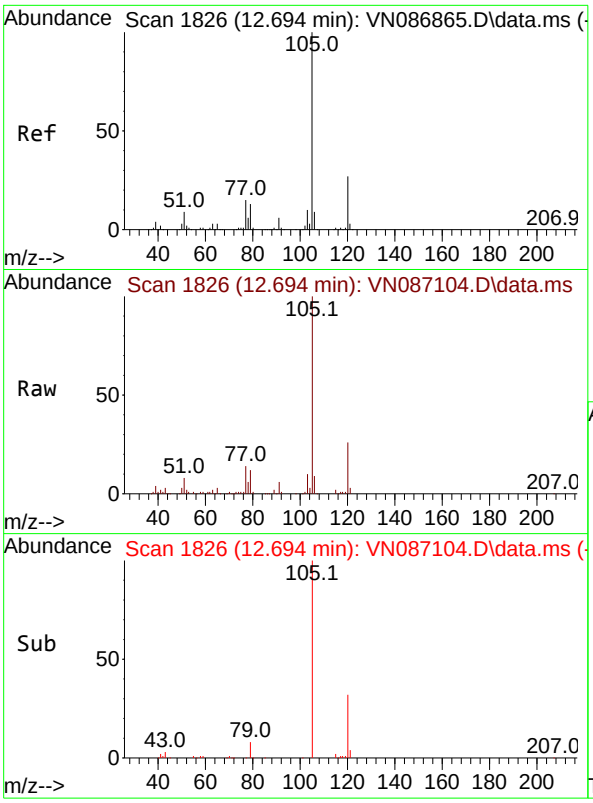


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:152 Resp: 132931

Ion	Ratio	Lower	Upper
152	100		
115	61.2	30.1	90.5
150	166.3	0.0	345.0

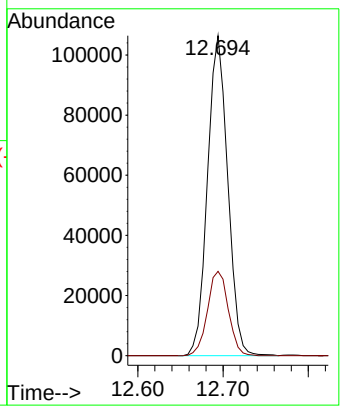




#73
Isopropylbenzene
Concen: 18.117 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:105 Resp: 17545

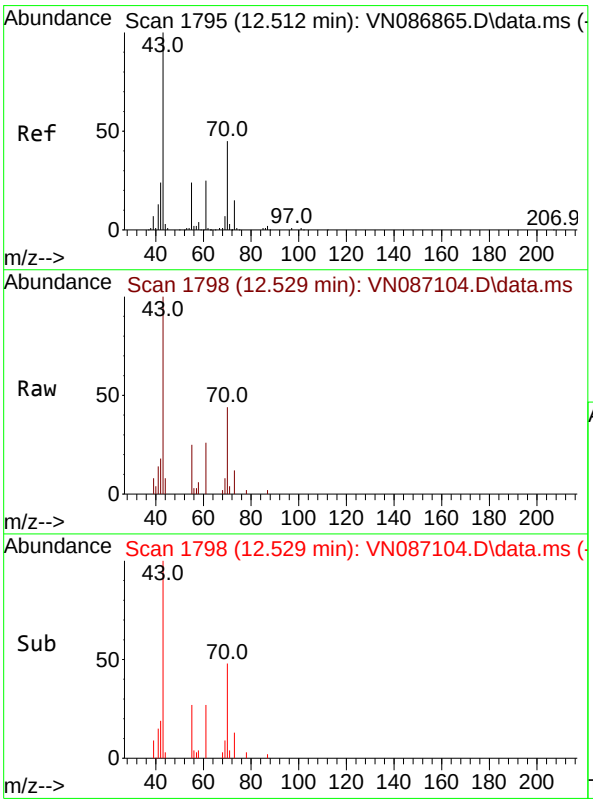
Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.5	40.4



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations APPROVED

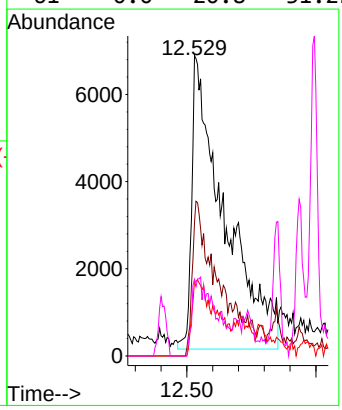
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

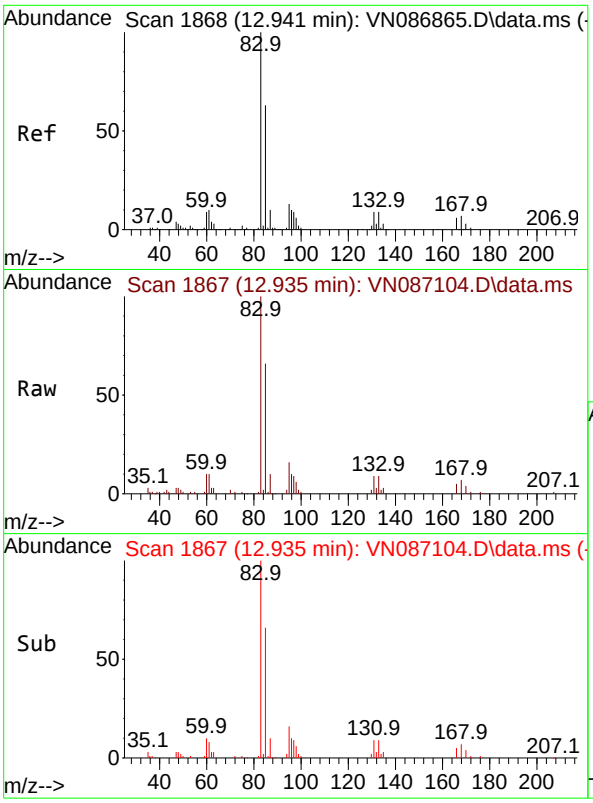


#74
N-amyl acetate
Concen: 17.448 ug/l m
RT: 12.529 min Scan# 1798
Delta R.T. 0.018 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 43 Resp: 59044

Ion	Ratio	Lower	Upper
43	100		
70	18.7	37.6	56.4#
55	12.1	19.0	28.6#
61	0.0	20.8	31.2#

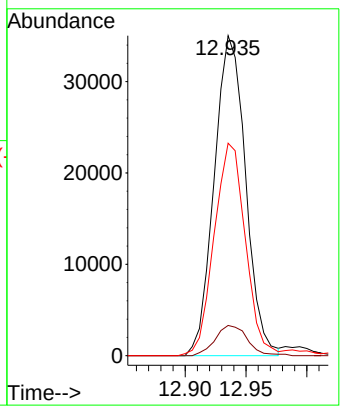




#75
1,1,2,2-Tetrachloroethane
Concen: 19.142 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 83 Resp: 6279

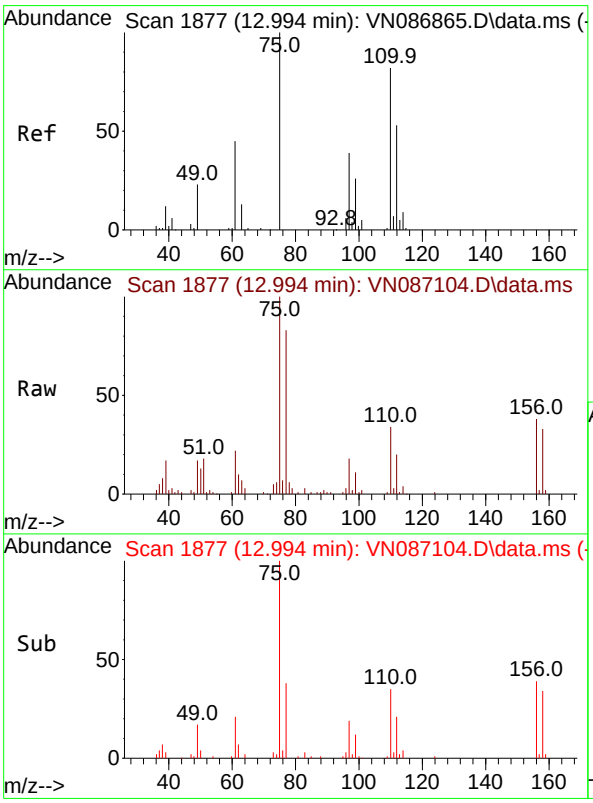
Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.9	14.7
85	66.4	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

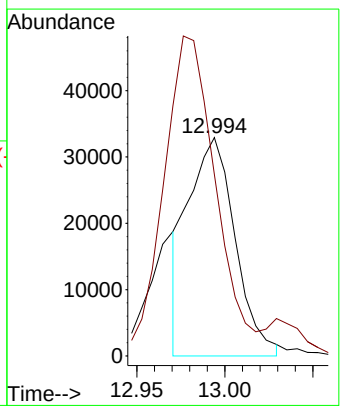
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

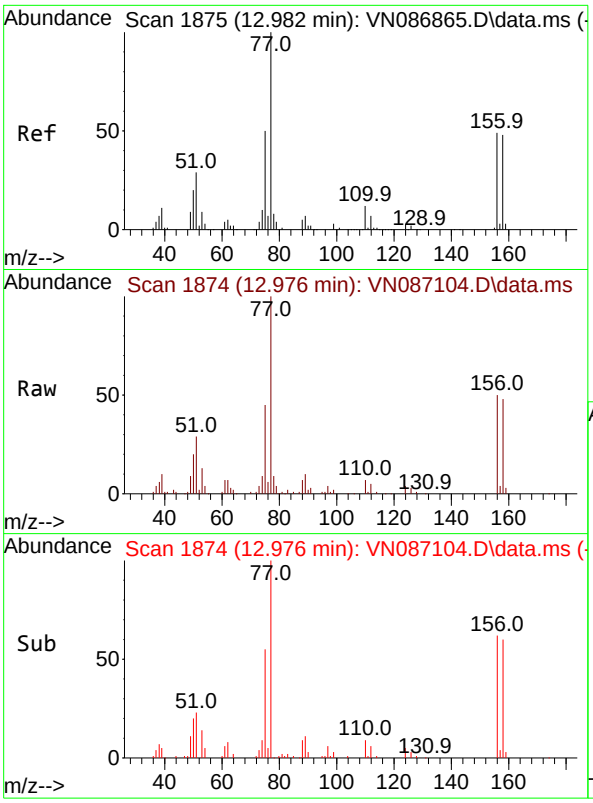


#76
1,2,3-Trichloropropane
Concen: 19.316 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 75 Resp: 61035

Ion	Ratio	Lower	Upper
75	100		
77	161.9	79.3	237.9

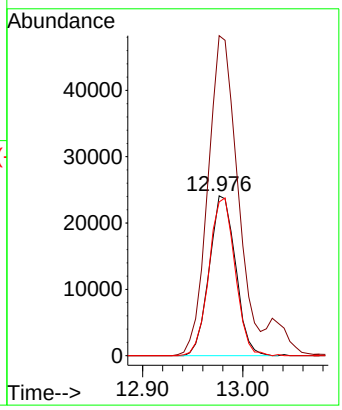




#77
Bromobenzene
Concen: 19.723 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:156 Resp: 4380

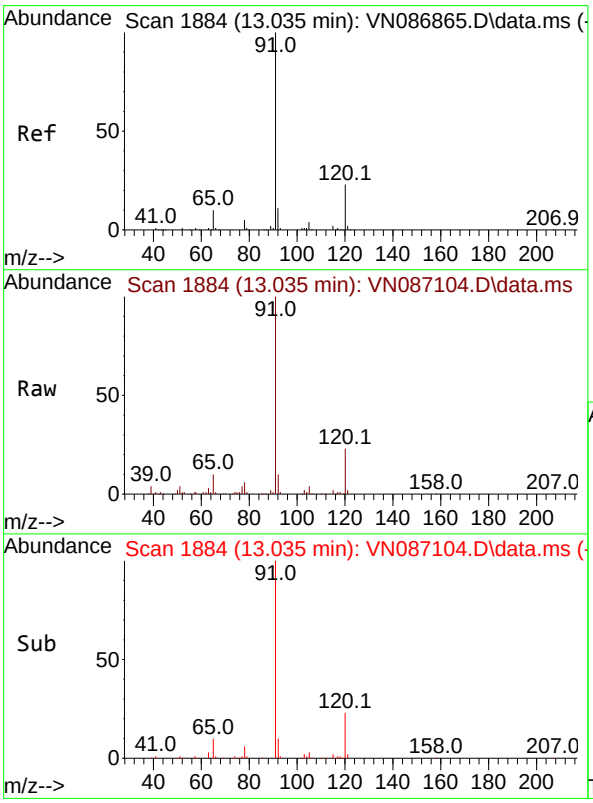
Ion	Ratio	Lower	Upper
156	100		
77	225.6	117.7	353.1
158	98.0	48.1	144.4



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

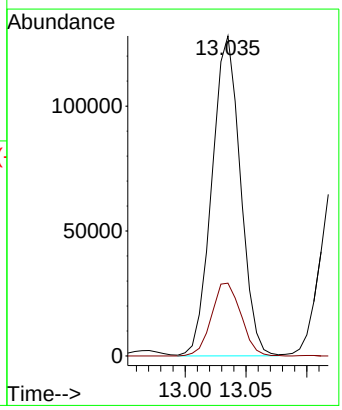
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

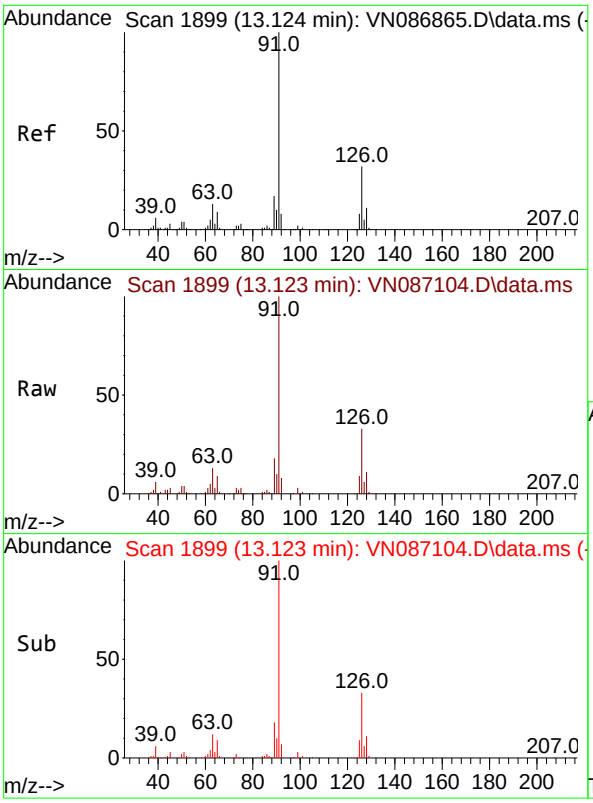


#78
n-propylbenzene
Concen: 17.730 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 91 Resp: 208663

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.4	34.2

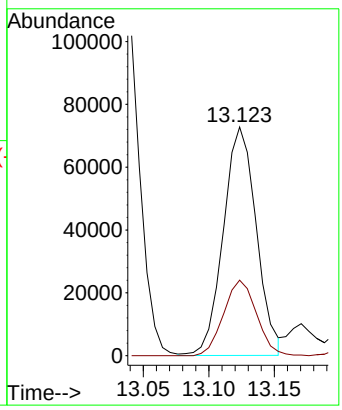




#79
2-Chlorotoluene
Concen: 18.054 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 91 Resp: 12742

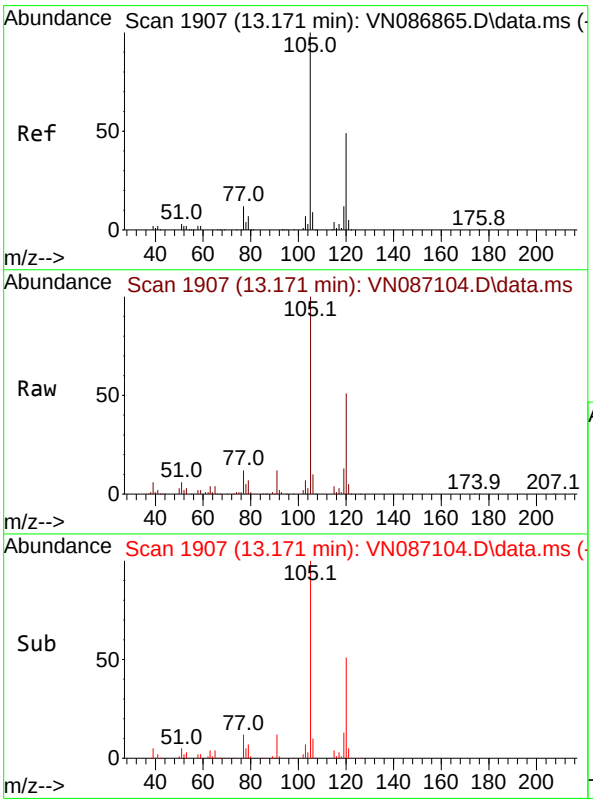
Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.2	48.5



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

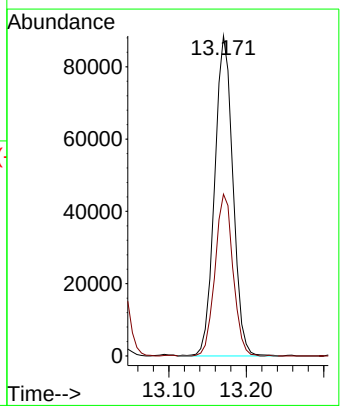
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

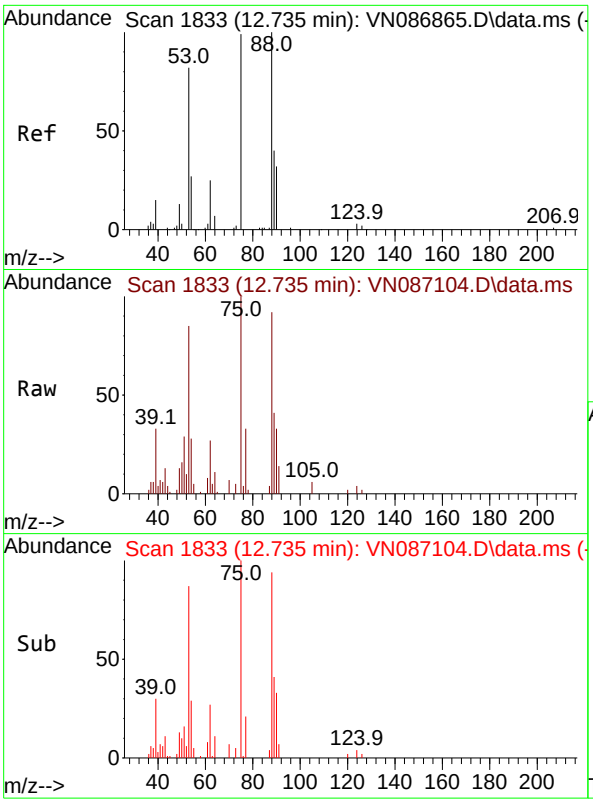


#80
1,3,5-Trimethylbenzene
Concen: 18.184 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:105 Resp: 145386

Ion	Ratio	Lower	Upper
105	100		
120	49.7	24.9	74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 17.762 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

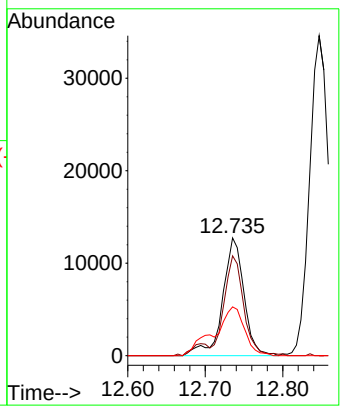
Tgt Ion: 75 Resp: 2438

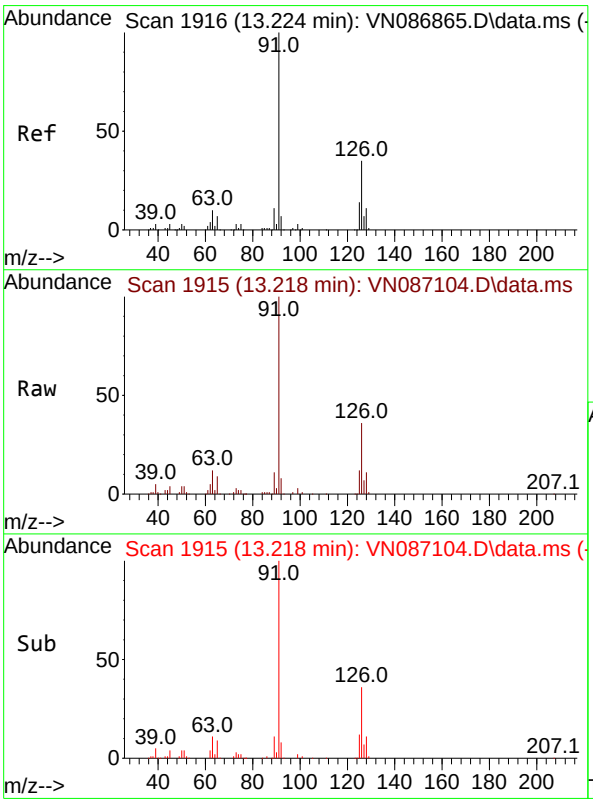
Ion	Ratio	Lower	Upper
75	100		
53	77.4	66.6	99.8
89	59.0	36.7	55.1

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

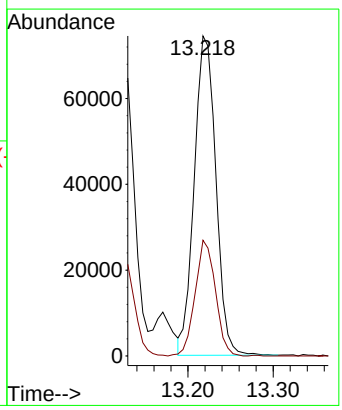


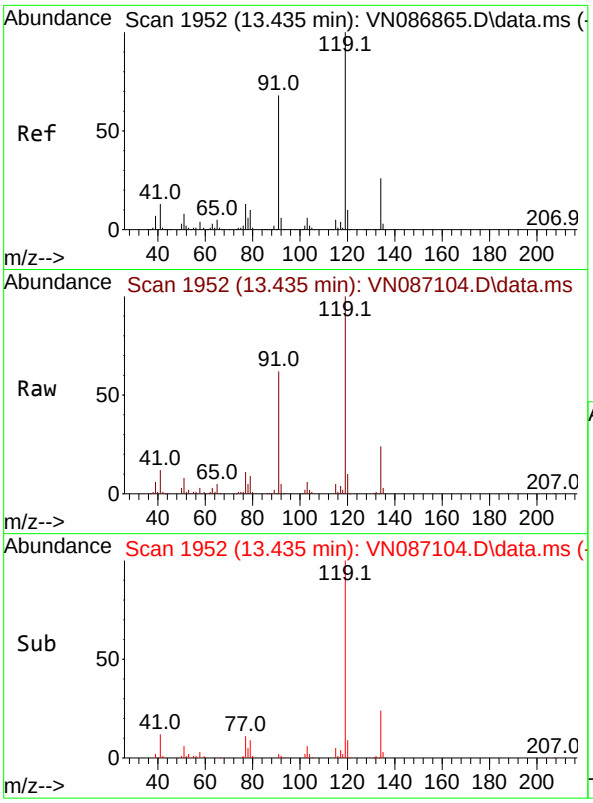


#82
4-Chlorotoluene
Concen: 18.373 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 91 Resp: 131206

Ion	Ratio	Lower	Upper
91	100		
126	34.1	16.7	50.1

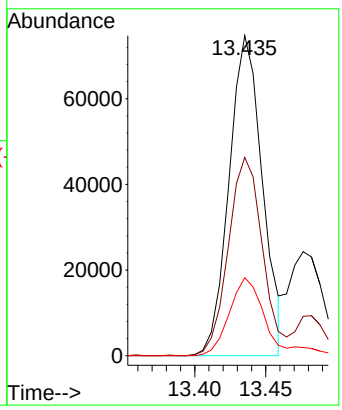




#83
tert-Butylbenzene
Concen: 16.646 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:119 Resp: 12182

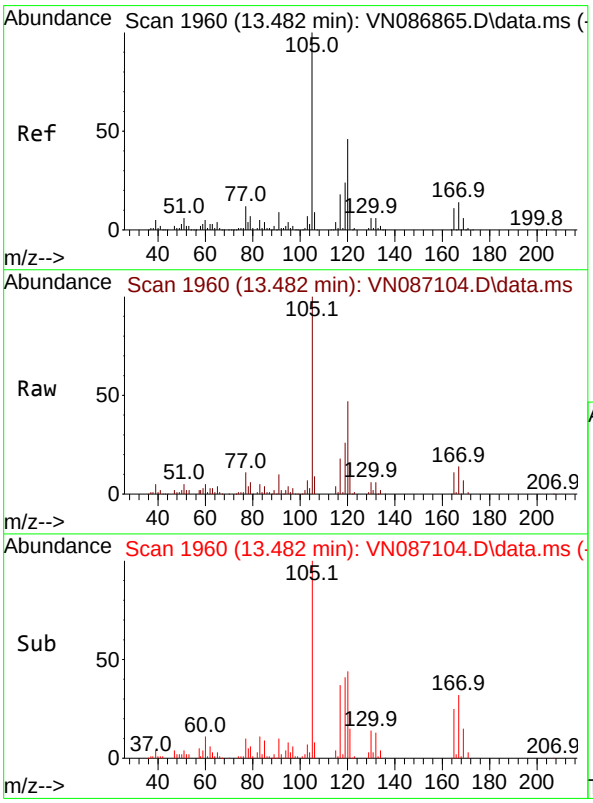
Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.1	96.5
134	26.8	13.4	40.1



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations APPROVED

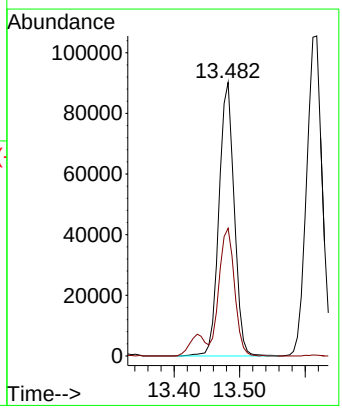
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

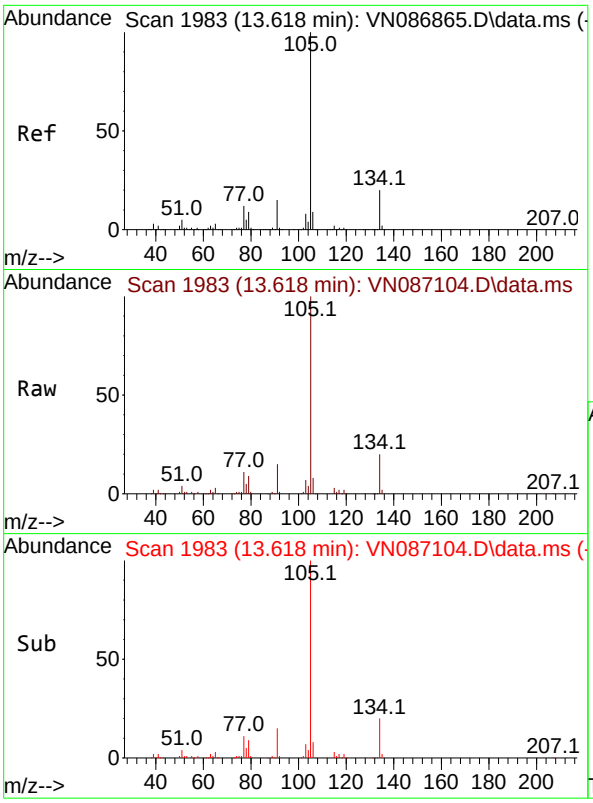


#84
1,2,4-Trimethylbenzene
Concen: 18.101 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:105 Resp: 145127

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.2	69.6





#85
sec-Butylbenzene
Concen: 16.440 ug/l
RT: 13.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

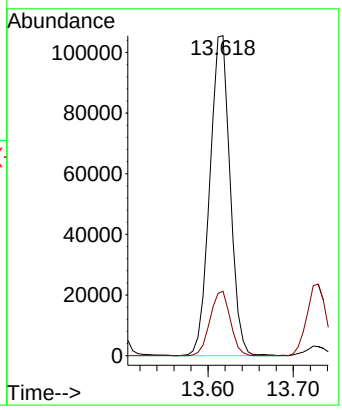
Tgt Ion:105 Resp: 17473

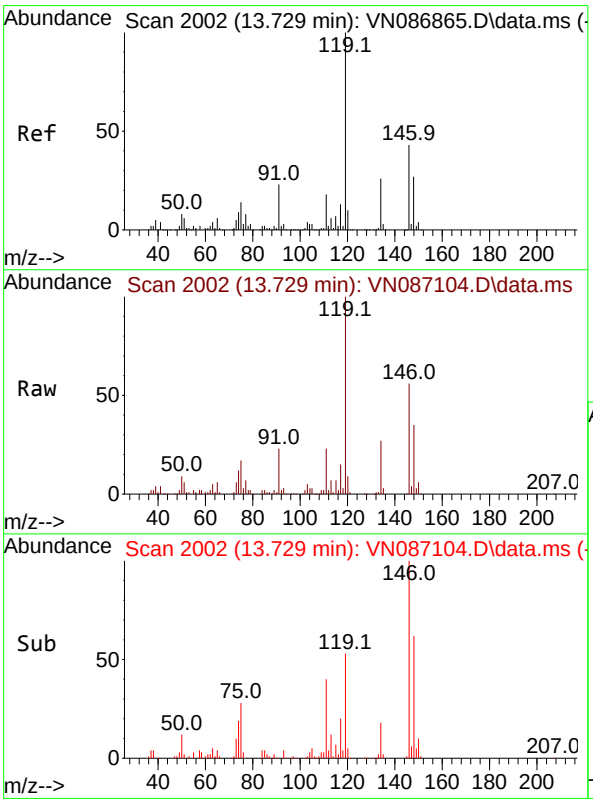
Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	30.0

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

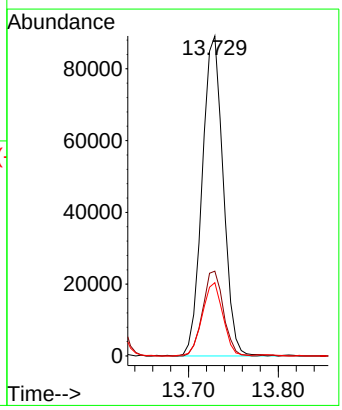


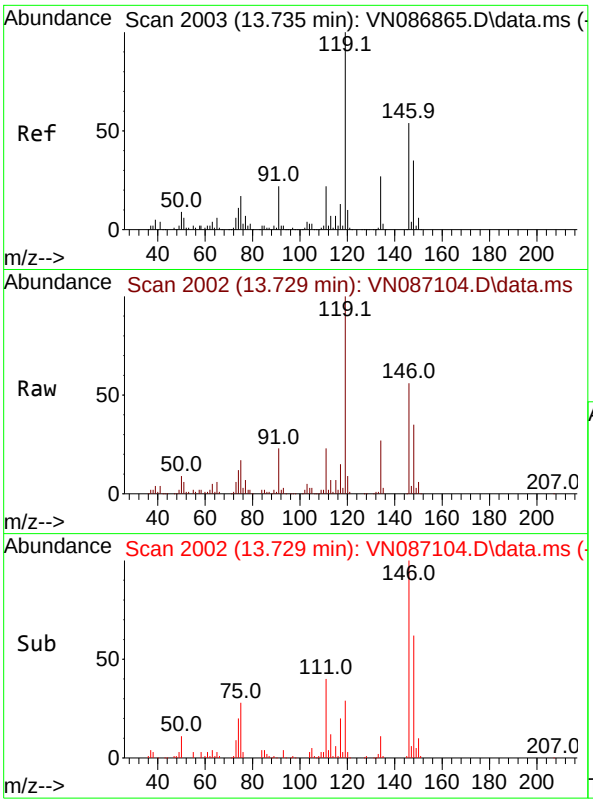


#86
p-Isopropyltoluene
Concen: 16.467 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:119 Resp: 144675

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.5	40.4
91	22.7	11.5	34.4

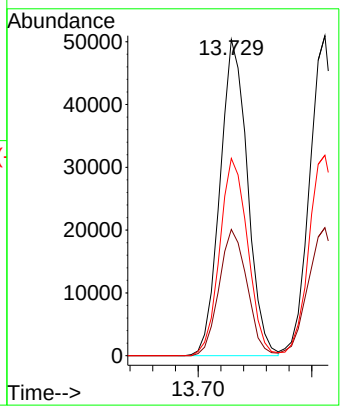




#87
1,3-Dichlorobenzene
Concen: 19.414 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:146 Resp: 8482

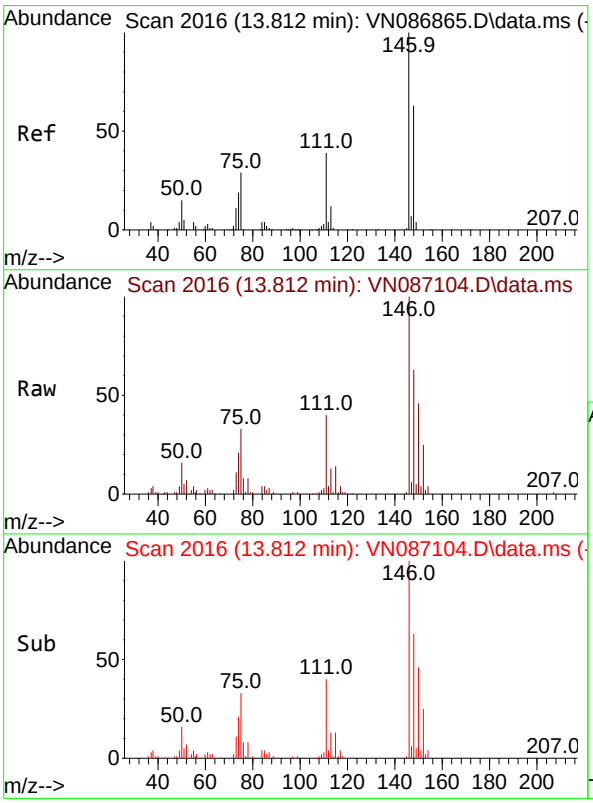
Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.9	62.8
148	63.4	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

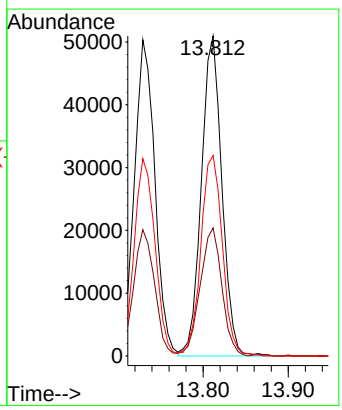
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

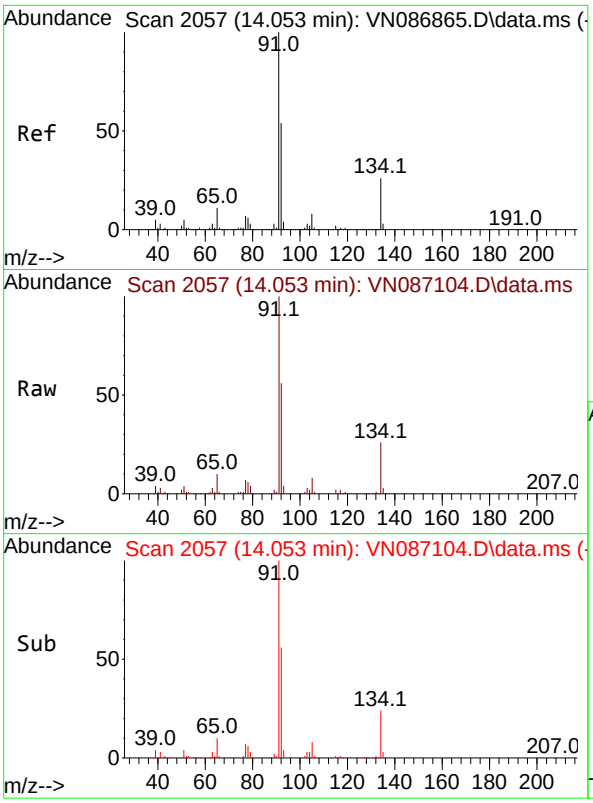


#88
1,4-Dichlorobenzene
Concen: 19.170 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:146 Resp: 85402

Ion	Ratio	Lower	Upper
146	100		
111	42.3	19.9	59.7
148	65.6	31.8	95.4





#89
n-Butylbenzene
Concen: 15.056 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

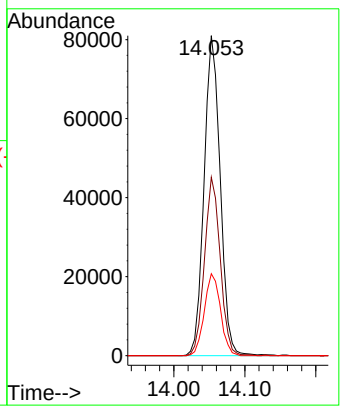
Tgt Ion: 91 Resp: 12813

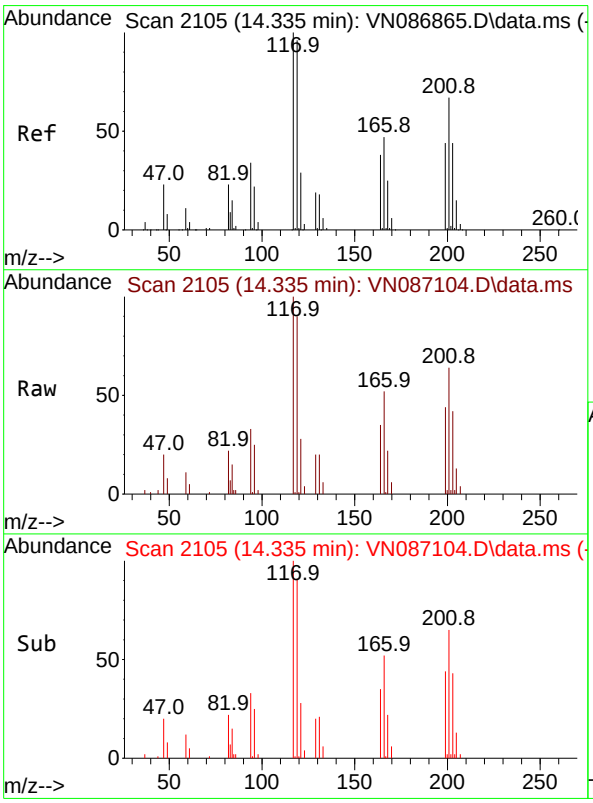
Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.5	82.4
134	25.7	13.0	39.0

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

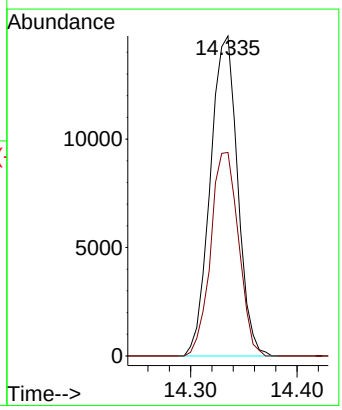


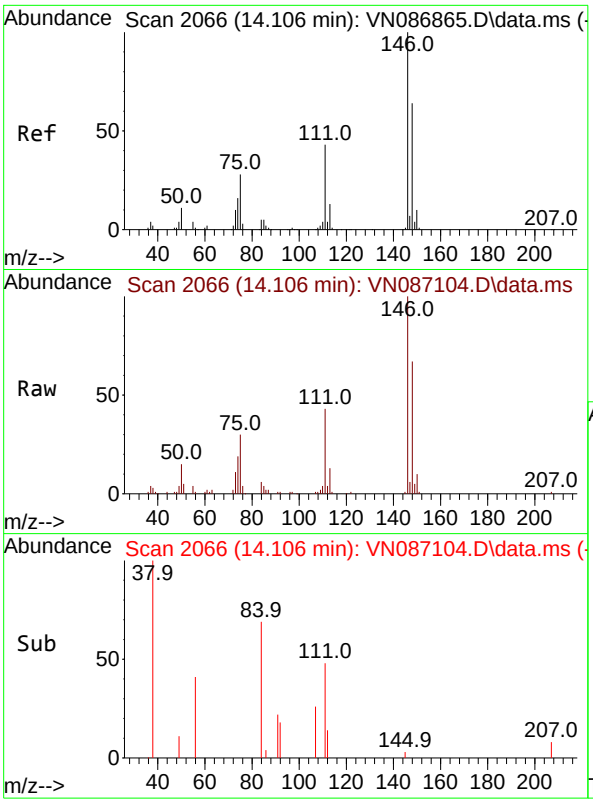


#90
Hexachloroethane
Concen: 17.650 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:117 Resp: 26285

Ion	Ratio	Lower	Upper
117	100		
201	64.8	33.2	99.6

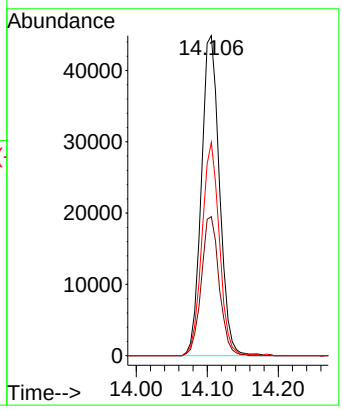




#91
1,2-Dichlorobenzene
Concen: 18.954 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:146 Resp: 7957

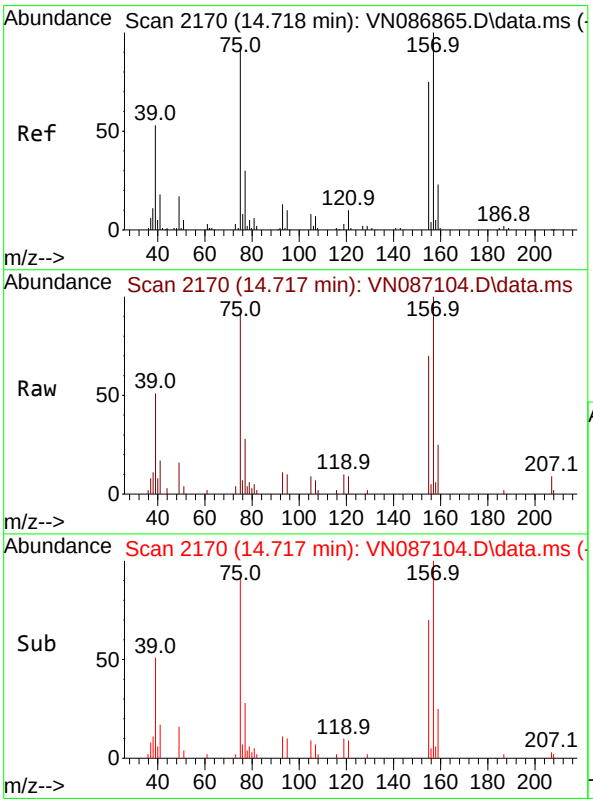
Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.6	64.6
148	64.3	31.7	95.1



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

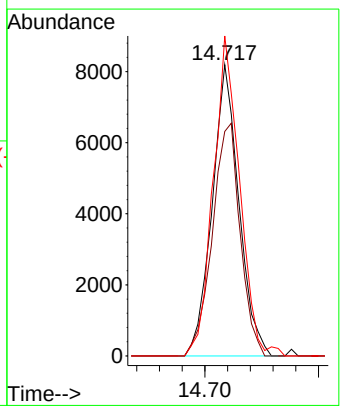
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

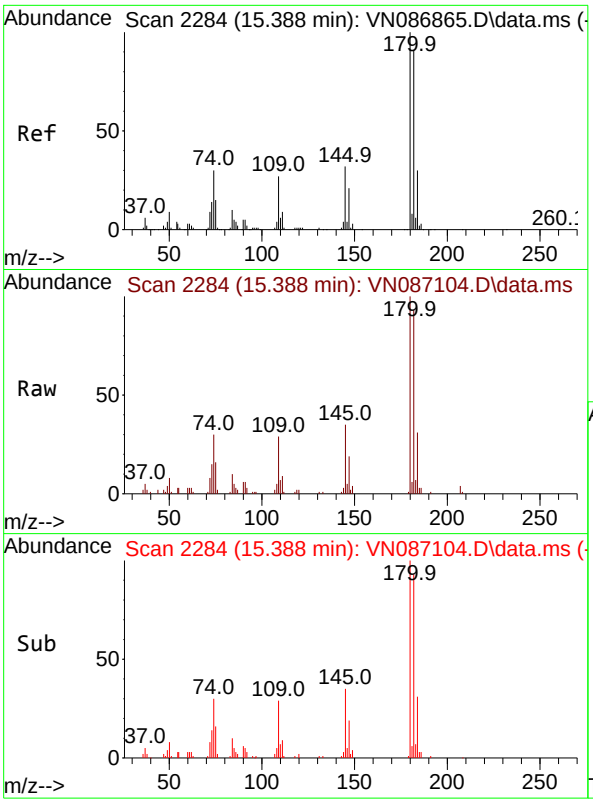


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.070 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 75 Resp: 13393

Ion	Ratio	Lower	Upper
75	100		
155	83.0	41.1	123.4
157	108.4	52.7	158.1

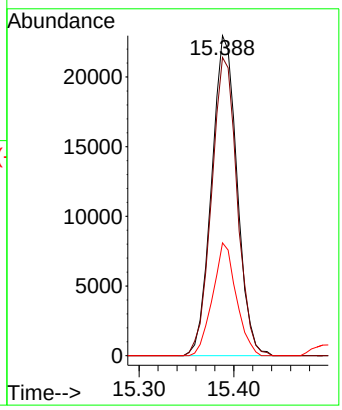




#93
1,2,4-Trichlorobenzene
Concen: 15.961 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:180 Resp: 4278

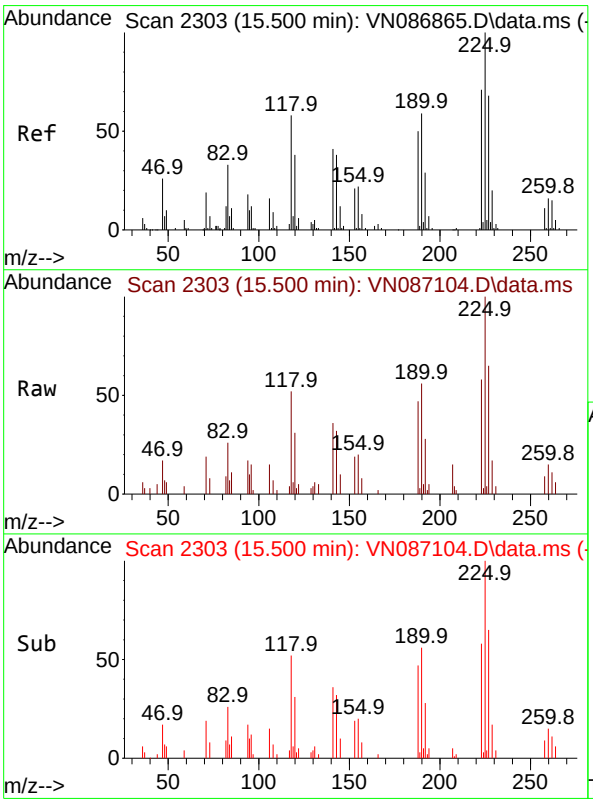
Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.9	140.7
145	32.8	16.0	47.9



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

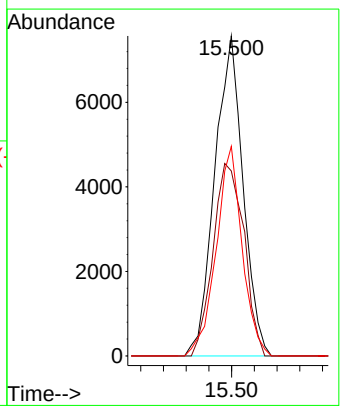
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

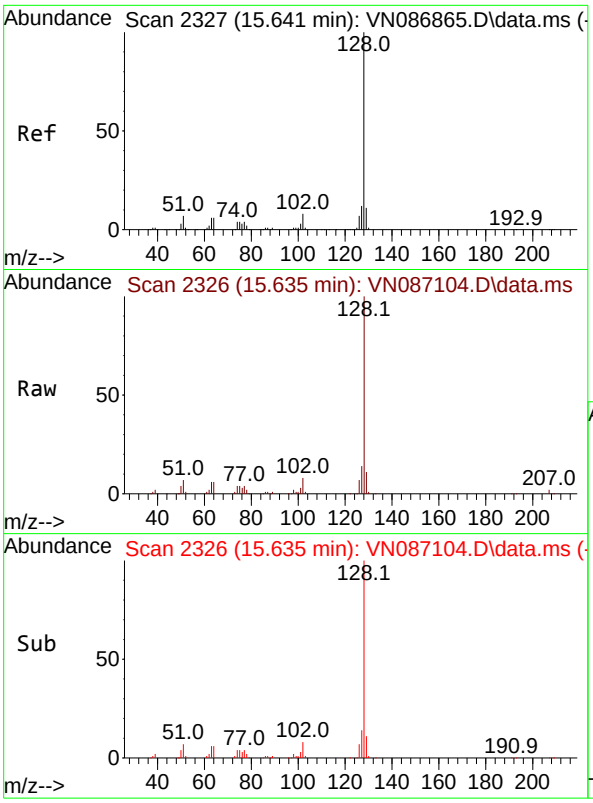


#94
Hexachlorobutadiene
Concen: 13.119 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:225 Resp: 13103

Ion	Ratio	Lower	Upper
225	100		
223	65.7	33.5	100.4
227	60.1	31.1	93.5

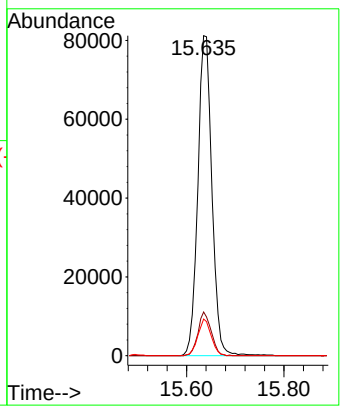




#95
Naphthalene
Concen: 16.368 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:128 Resp: 16331

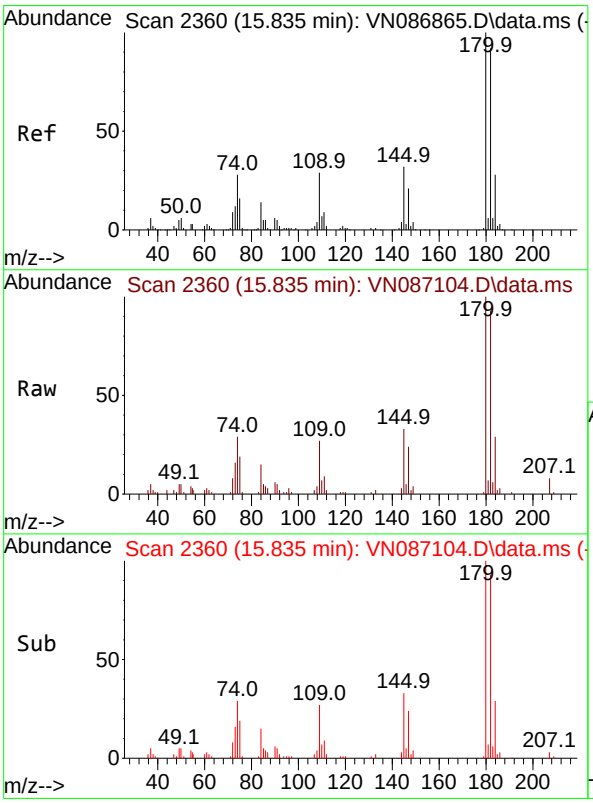
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.8	8.8	13.2



Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Manual Integrations
APPROVED

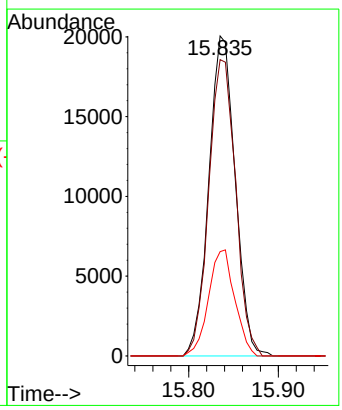
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 15.372 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:180 Resp: 40941

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.0	141.0
145	32.9	16.6	49.8



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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613MS	SDG No.:	Q2329
Lab Sample ID:	Q2329-11MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087118.D	1		06/19/25 17:31	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	55.7		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	48.6		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	59.7		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	51.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	59.4		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	59.1		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	57.7		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	58.6		0.23	0.75	1.00	ug/L
67-64-1	Acetone	250		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	60.0		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	56.2		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	44.3		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	55.2		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	56.9		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	57.1		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	51.1		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	250		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	58.2		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	57.5		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	47.8		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	56.5		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	56.4		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	48.7		0.16	0.50	1.00	ug/L
71-43-2	Benzene	57.4		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	56.0		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	97.3		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	56.6		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	57.4		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	270		0.68	2.50	5.00	ug/L
108-88-3	Toluene	58.6		0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613MS	SDG No.:	Q2329
Lab Sample ID:	Q2329-11MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087118.D	1		06/19/25 17:31	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	57.1		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	56.3		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	57.7		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	280		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	60.3		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	58.9		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	57.3		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	57.1		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	55.6		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	120		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	58.7		0.12	0.50	1.00	ug/L
100-42-5	Styrene	58.2		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	60.7		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	54.2		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	55.5		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	56.2		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	55.6		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	56.2		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	52.0		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	48.3		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	47.1		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.0		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	55.7		80 - 119		111%	SPK: 50
2037-26-5	Toluene-d8	51.3		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	181000	8.23				
540-36-3	1,4-Difluorobenzene	323000	9.106				
3114-55-4	Chlorobenzene-d5	288000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	146000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613MS	SDG No.:	Q2329
Lab Sample ID:	Q2329-11MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087118.D	1		06/19/25 17:31	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061925\
Data File : VN087118.D
Acq On : 19 Jun 2025 17:31
Operator : JC\MD
Sample : Q2329-11MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 20 01:29:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations APPROVED
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	180737	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	323339	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	287602	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	145576	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	121021	50.011	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.020%			
35) Dibromofluoromethane	8.177	113	106635	55.650	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.300%			
50) Toluene-d8	10.565	98	389345	51.326	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.660%			
62) 4-Bromofluorobenzene	12.847	95	148165	52.573	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	100332	55.676	ug/l	100
3) Chloromethane	2.395	50	113002	48.561	ug/l	97
4) Vinyl Chloride	2.553	62	143221	59.664	ug/l	100
5) Bromomethane	2.983	94	68685	51.131	ug/l	92
6) Chloroethane	3.153	64	92057	59.370	ug/l	94
7) Trichlorofluoromethane	3.524	101	185326	59.091	ug/l	97
8) Diethyl Ether	3.977	74	79694	58.321	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.400	101	113788	57.748	ug/l	99
10) Methyl Iodide	4.618	142	80867	31.659	ug/l	99
11) Tert butyl alcohol	5.541	59	171497	261.186	ug/l	99
12) 1,1-Dichloroethene	4.365	96	117837	58.577	ug/l	98
13) Acrolein	4.194	56	52266	251.473	ug/l	99
14) Allyl chloride	5.047	41	169252	50.732	ug/l	94
15) Acrylonitrile	5.736	53	413603	269.496	ug/l	99
16) Acetone	4.442	43	314890	245.380	ug/l	98
17) Carbon Disulfide	4.736	76	333594	59.951	ug/l	99
18) Methyl Acetate	5.047	43	165839	44.346	ug/l	98
19) Methyl tert-butyl Ether	5.818	73	409286	56.192	ug/l	100
20) Methylene Chloride	5.300	84	132585	55.186	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	127413	56.928	ug/l	94
22) Diisopropyl ether	6.683	45	374500	53.253	ug/l	98
23) Vinyl Acetate	6.618	43	1542168	259.551	ug/l	97
24) 1,1-Dichloroethane	6.583	63	230943	57.065	ug/l	99
25) 2-Butanone	7.494	43	519481	249.041	ug/l	97
26) 2,2-Dichloropropane	7.500	77	172985	54.949	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	153827	57.469	ug/l	96
28) Bromochloromethane	7.824	49	95053	47.769	ug/l	92
29) Tetrahydrofuran	7.847	42	344998	253.893	ug/l	95
30) Chloroform	7.977	83	228488	56.534	ug/l	97
31) Cyclohexane	8.265	56	200388	51.057	ug/l	93
32) 1,1,1-Trichloroethane	8.177	97	193854	56.394	ug/l	99
36) 1,1-Dichloropropene	8.377	75	167705	58.734	ug/l	100
37) Ethyl Acetate	7.571	43	189405	52.109	ug/l	99
38) Carbon Tetrachloride	8.371	117	163068	58.171	ug/l	98
39) Methylcyclohexane	9.606	83	190684	48.745	ug/l	97
40) Benzene	8.612	78	535976	57.404	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087118.D
Acq On : 19 Jun 2025 17:31
Operator : JC\MD
Sample : Q2329-11MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 20 01:29:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	103692	50.796	ug/l		93
42) 1,2-Dichloroethane	8.677	62	158483	55.962	ug/l		100
43) Isopropyl Acetate	8.694	43	291879	50.032	ug/l		96
44) Trichloroethene	9.359	130	215352	97.270	ug/l		98
45) 1,2-Dichloropropane	9.624	63	128642	56.632	ug/l		99
46) Dibromomethane	9.712	93	88375	58.573	ug/l		99
47) Bromodichloromethane	9.888	83	178318	57.442	ug/l		98
48) Methyl methacrylate	9.682	41	136295	50.759	ug/l		94
49) 1,4-Dioxane	9.706	88	57592	1178.993	ug/l	#	96
51) 4-Methyl-2-Pentanone	10.447	43	944616	268.964	ug/l		97
52) Toluene	10.629	92	334253	58.579	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	198096	57.068	ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	209243	56.337	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	126737	57.724	ug/l		99
56) Ethyl methacrylate	10.876	69	209456	59.895	ug/l		93
57) 1,3-Dichloropropane	11.165	76	219270	57.571	ug/l		99
59) 2-Hexanone	11.200	43	632533	279.606	ug/l		93
60) Dibromochloromethane	11.359	129	138037	60.343	ug/l		99
61) 1,2-Dibromoethane	11.470	107	132627	58.934	ug/l		98
64) Tetrachloroethene	11.106	164	104229	57.264	ug/l		95
65) Chlorobenzene	11.894	112	362505	57.149	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	118036	57.889	ug/l		99
67) Ethyl Benzene	11.965	91	607039	55.559	ug/l		99
68) m/p-Xylenes	12.070	106	486047	116.211	ug/l		98
69) o-Xylene	12.394	106	235034	58.675	ug/l		96
70) Styrene	12.412	104	398866	58.190	ug/l		99
71) Bromoform	12.576	173	91748	60.729	ug/l	#	99
73) Isopropylbenzene	12.694	105	574771	54.196	ug/l		99
74) N-amyl acetate	12.512	43	169068	45.621	ug/l		95
75) 1,1,2,2-Tetrachloroethane	12.935	83	199250	55.457	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	163580m	47.272	ug/l		
77) Bromobenzene	12.982	156	139561	57.381	ug/l		96
78) n-propylbenzene	13.035	91	675516	52.413	ug/l		99
79) 2-Chlorotoluene	13.123	91	407496	52.721	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	475753	54.335	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.735	75	79351	52.787	ug/l		91
82) 4-Chlorotoluene	13.217	91	419800	53.678	ug/l		98
83) tert-Butylbenzene	13.435	119	407771	50.876	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	480566	54.733	ug/l		100
85) sec-Butylbenzene	13.612	105	576942	49.567	ug/l		100
86) p-Isopropyltoluene	13.729	119	486569	50.571	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	268884	56.190	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	271234	55.596	ug/l		100
89) n-Butylbenzene	14.053	91	422443	45.329	ug/l		99
90) Hexachloroethane	14.329	117	86124	52.807	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	258146	56.151	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	44690	52.011	ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	141709	48.271	ug/l		99
94) Hexachlorobutadiene	15.494	225	42186	38.570	ug/l		98
95) Naphthalene	15.635	128	577711	52.869	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	137332	47.084	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087118.D
Acq On : 19 Jun 2025 17:31
Operator : JC\MD
Sample : Q2329-11MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 20 01:29:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

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

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

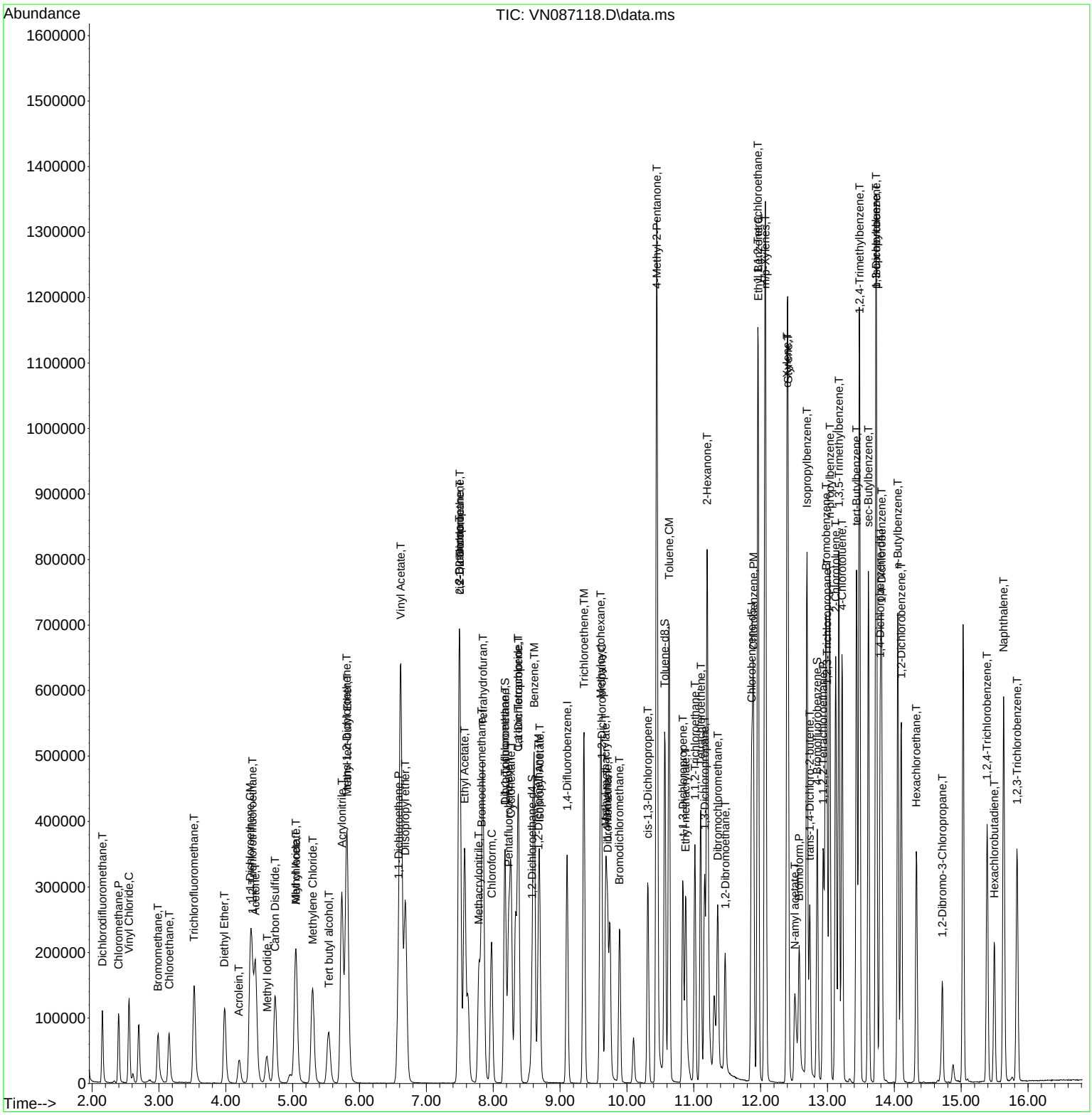
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087118.D
Acq On : 19 Jun 2025 17:31
Operator : JC\MD
Sample : Q2329-11MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

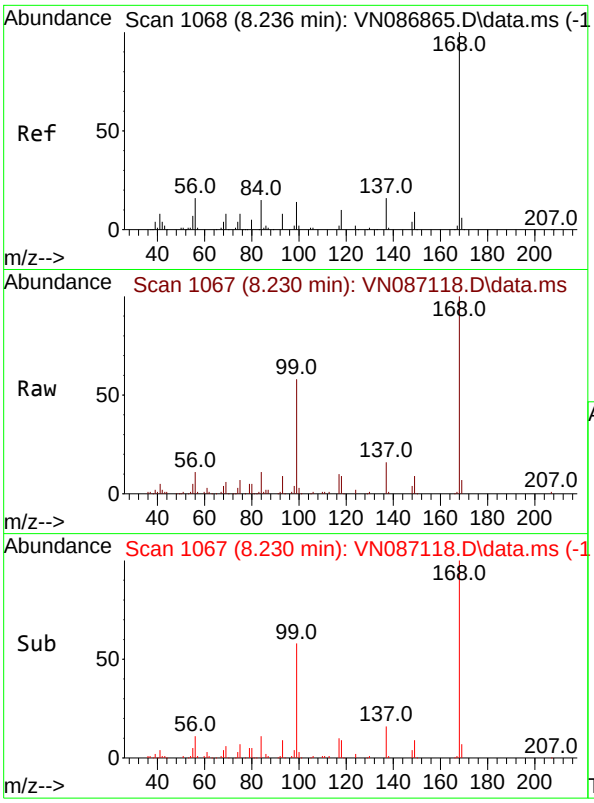
Quant Time: Jun 20 01:29:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

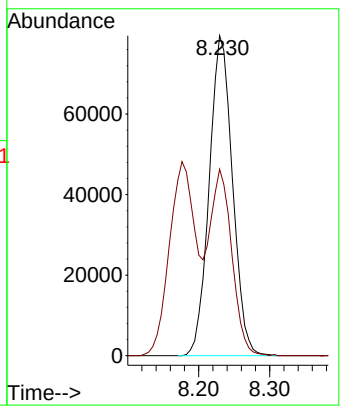




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:168 Resp: 18073

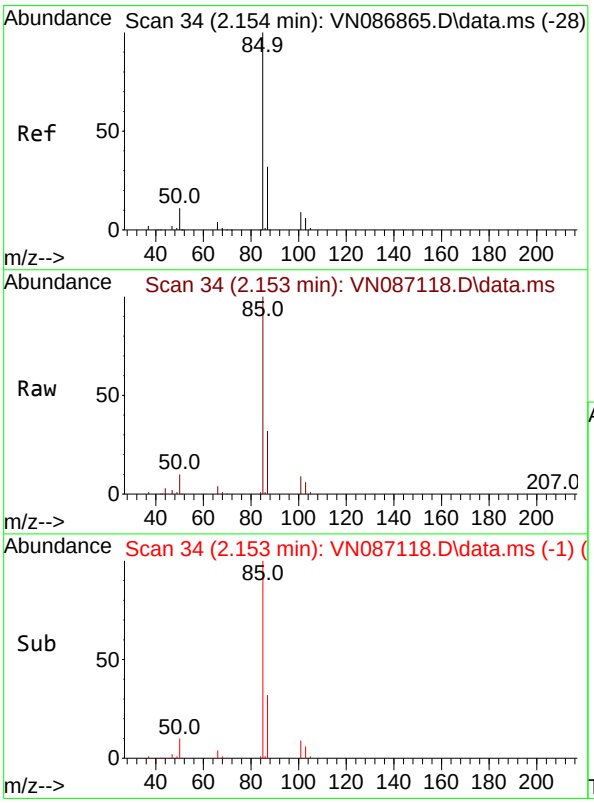
Ion	Ratio	Lower	Upper
168	100		
99	58.3	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

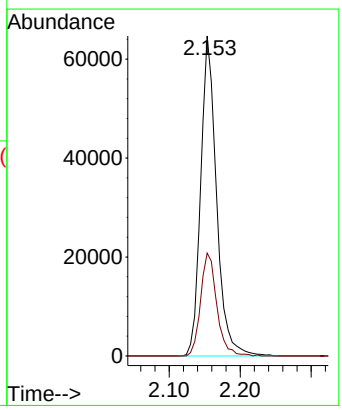
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

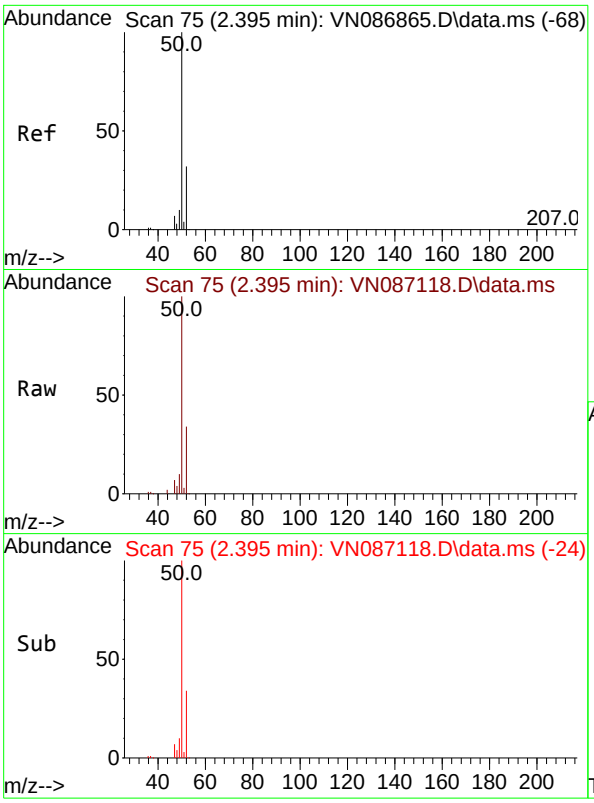


#2
Dichlorodifluoromethane
Concen: 55.676 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 85 Resp: 100332

Ion	Ratio	Lower	Upper
85	100		
87	32.1	16.2	48.6





#3
Chloromethane
Concen: 48.561 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

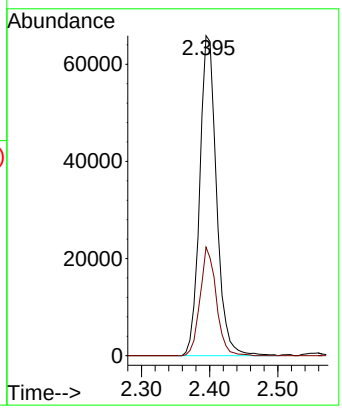
Tgt Ion: 50 Resp: 11300

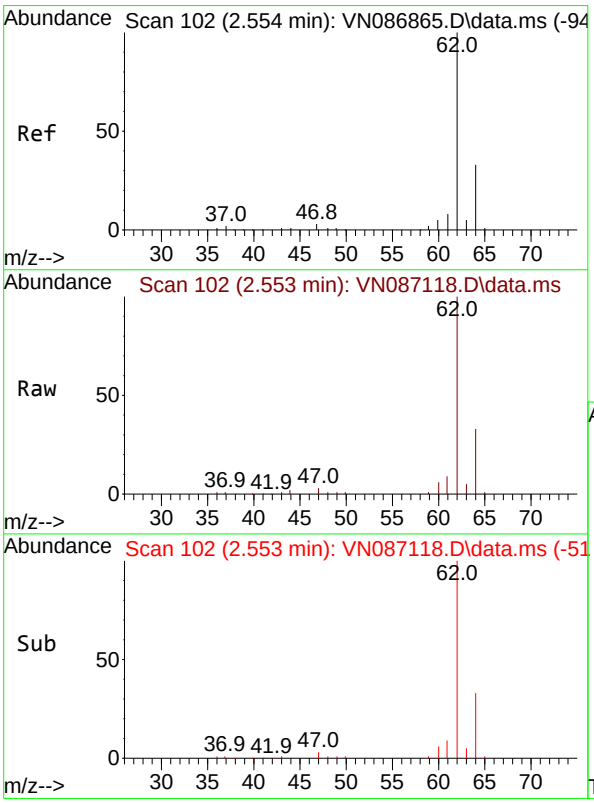
Ion	Ratio	Lower	Upper
50	100		
52	33.9	25.7	38.5

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

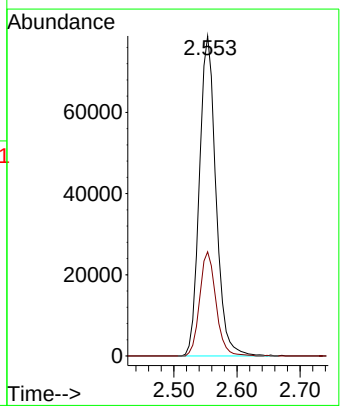


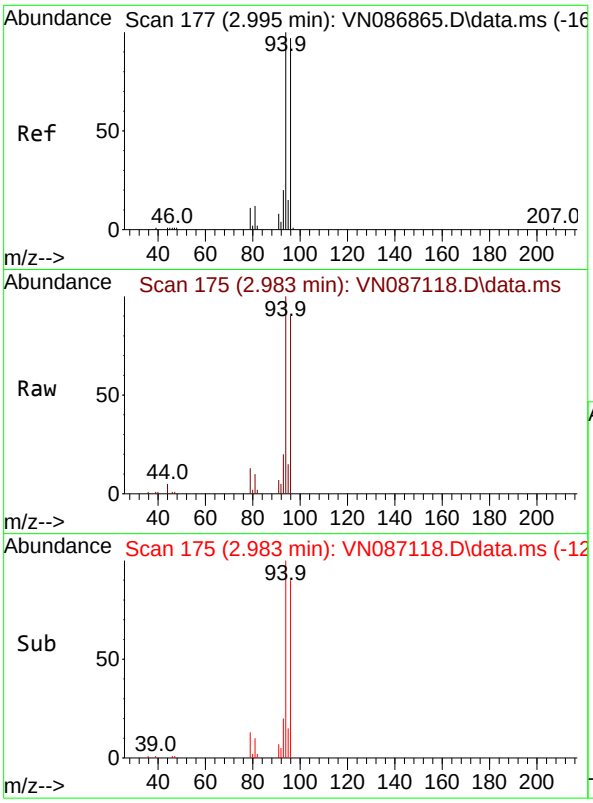


#4
Vinyl Chloride
Concen: 59.664 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 62 Resp: 143221

Ion	Ratio	Lower	Upper
62	100		
64	32.6	26.0	39.0

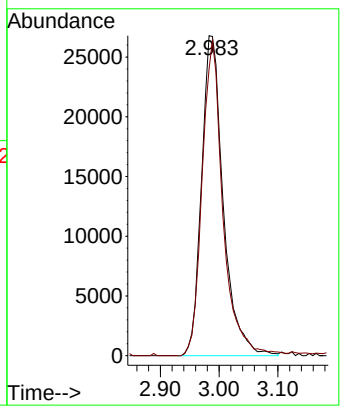




#5
Bromomethane
Concen: 51.131 ug/l
RT: 2.983 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 94 Resp: 6868

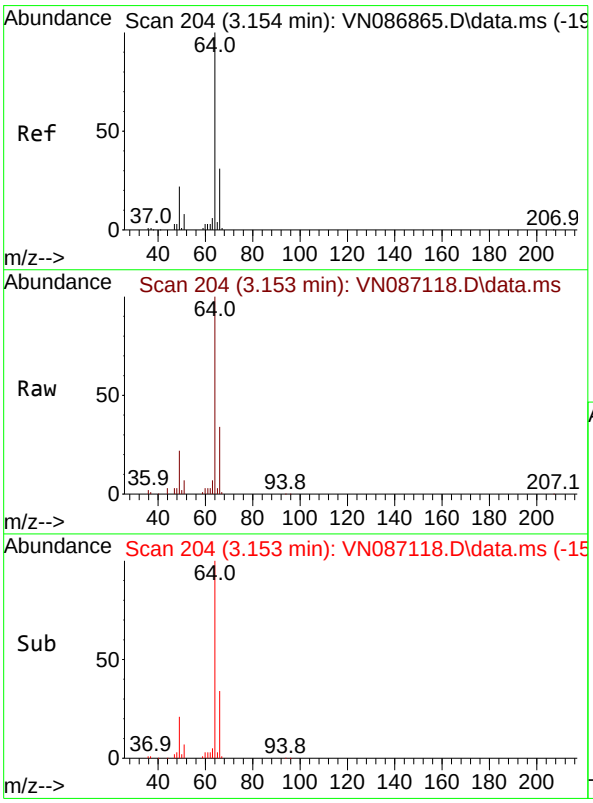
Ion	Ratio	Lower	Upper
94	100		
96	89.7	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

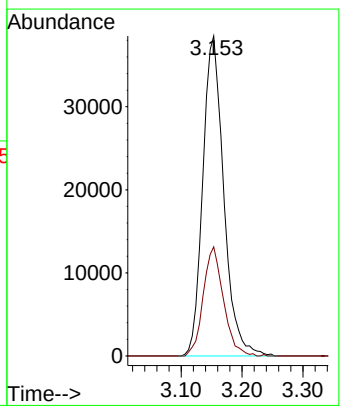
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

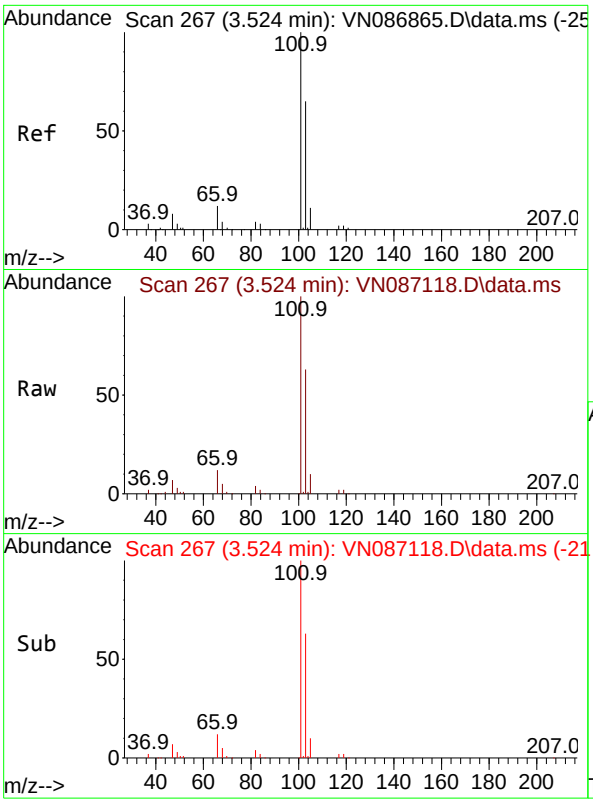


#6
Chloroethane
Concen: 59.370 ug/l
RT: 3.153 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 64 Resp: 92057

Ion	Ratio	Lower	Upper
64	100		
66	34.1	24.6	36.8





#7
Trichlorofluoromethane
Concen: 59.091 ug/l
RT: 3.524 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

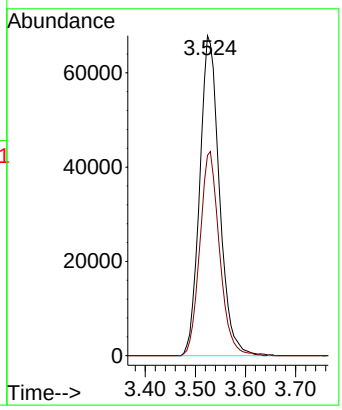
Tgt Ion:101 Resp: 18532

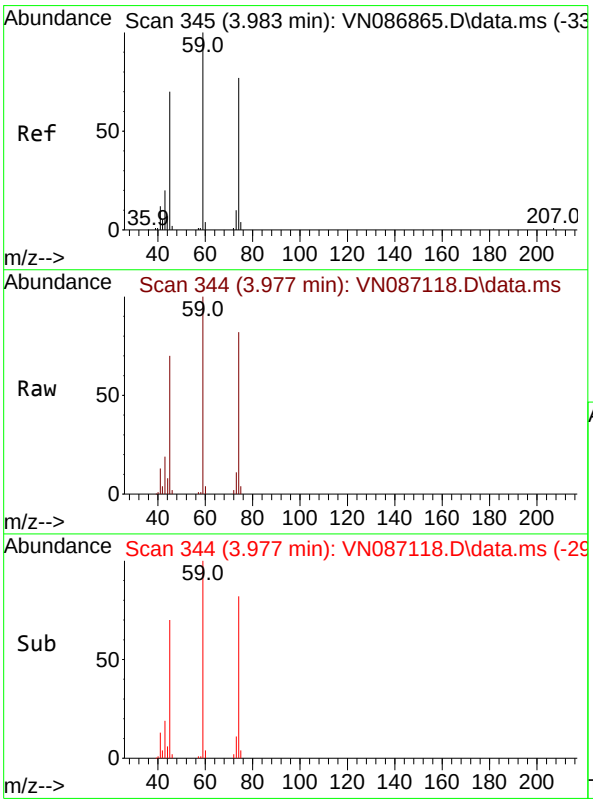
Ion	Ratio	Lower	Upper
101	100		
103	62.6	52.2	78.2

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

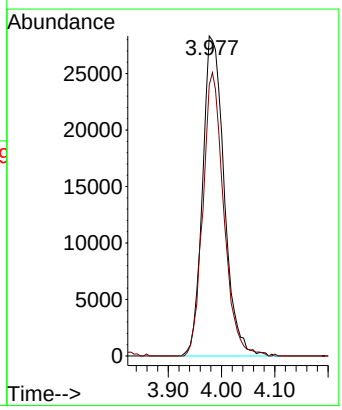


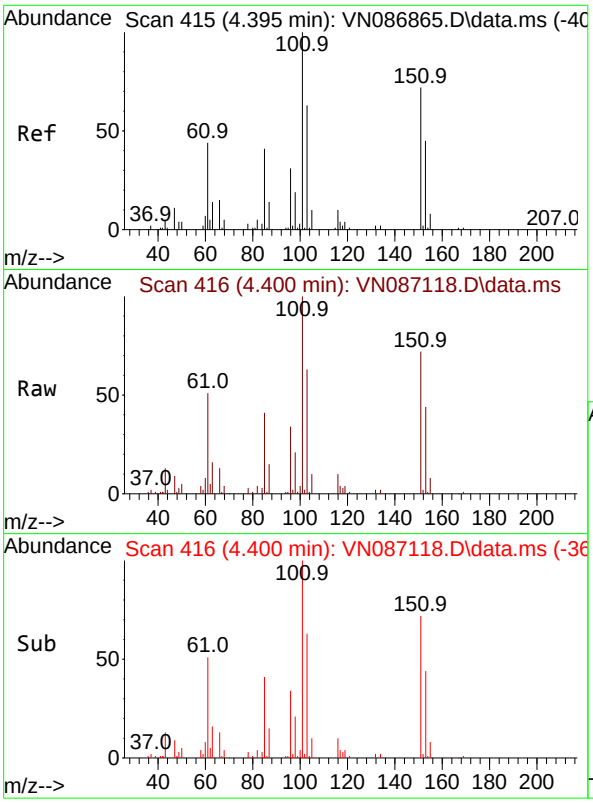


#8
Diethyl Ether
Concen: 58.321 ug/l
RT: 3.977 min Scan# 344
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 74 Resp: 79694

Ion	Ratio	Lower	Upper
74	100		
45	85.2	45.5	136.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 57.748 ug/l
RT: 4.400 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

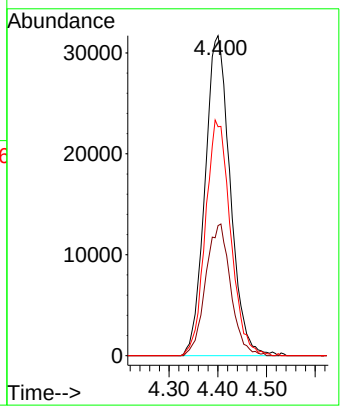
Tgt Ion:101 Resp: 11378

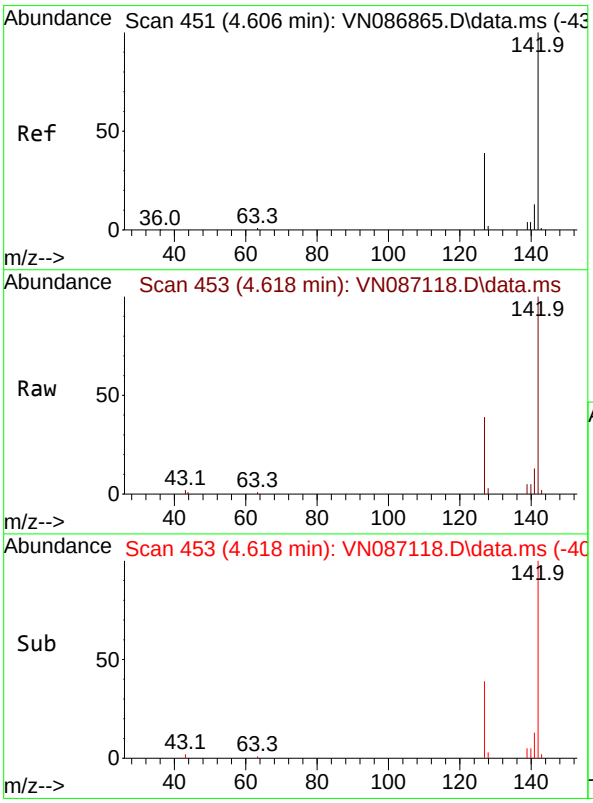
Ion	Ratio	Lower	Upper
101	100		
85	40.9	33.8	50.8
151	73.4	58.7	88.1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

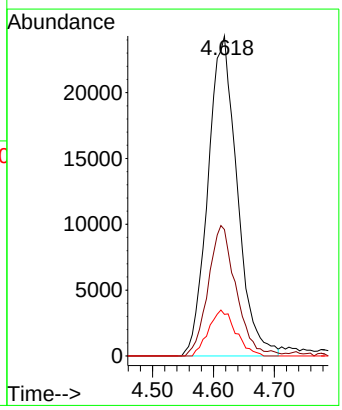


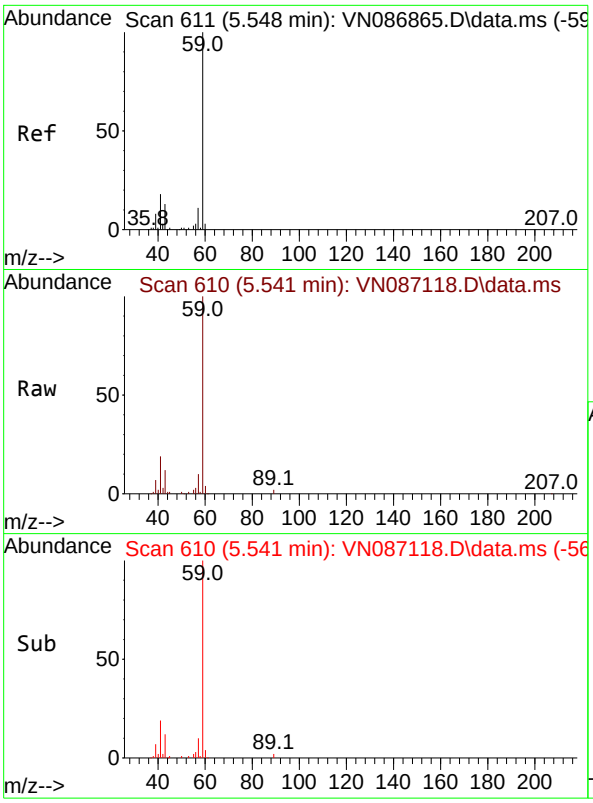


#10
Methyl Iodide
Concen: 31.659 ug/l
RT: 4.618 min Scan# 453
Delta R.T. 0.012 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:142 Resp: 80867

Ion	Ratio	Lower	Upper
142	100		
127	39.5	30.9	46.3
141	13.0	10.4	15.6





#11
Tert butyl alcohol
Concen: 261.186 ug/l
RT: 5.541 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

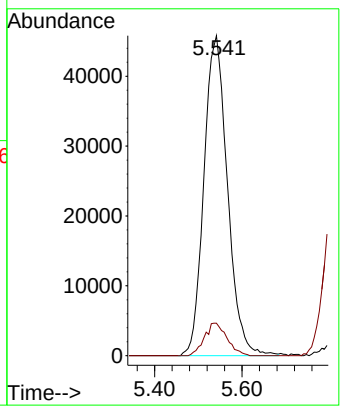
Tgt Ion: 59 Resp: 17149

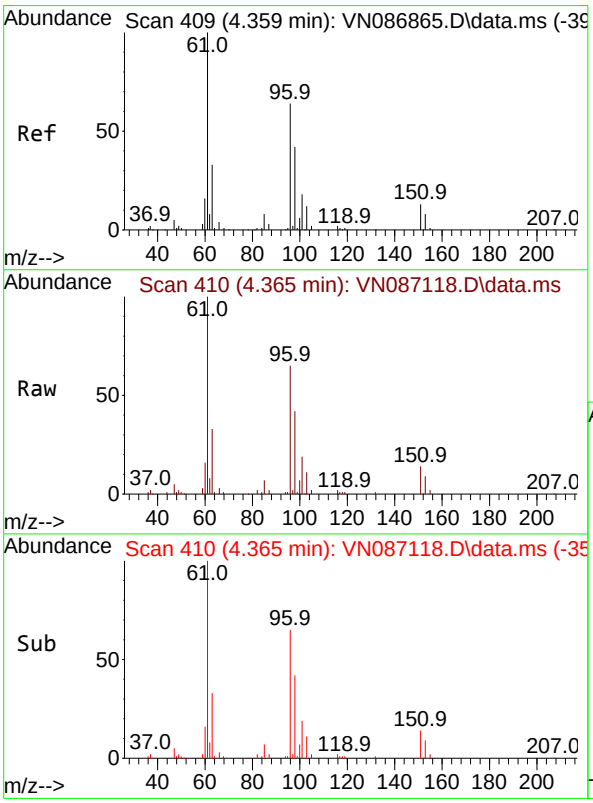
Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.1	12.1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

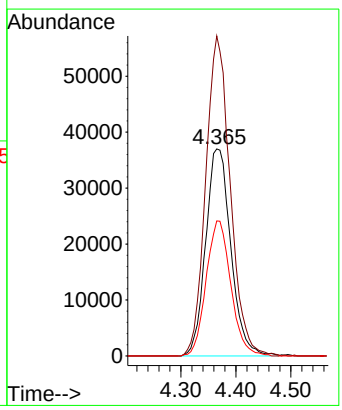


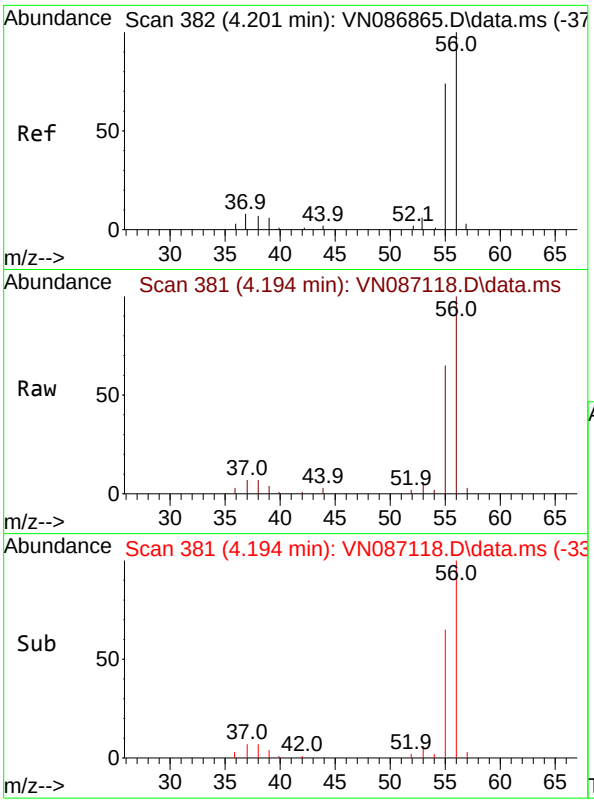


#12
1,1-Dichloroethene
Concen: 58.577 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 96 Resp: 117837

Ion	Ratio	Lower	Upper
96	100		
61	154.5	125.8	188.6
98	65.2	52.5	78.7

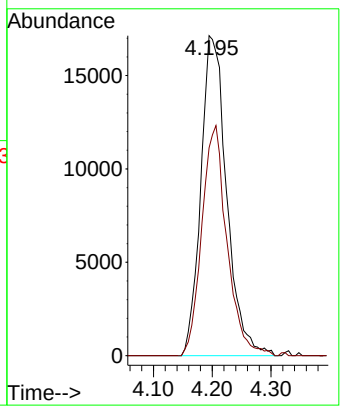




#13
Acrolein
Concen: 251.473 ug/l
RT: 4.194 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 56 Resp: 5226

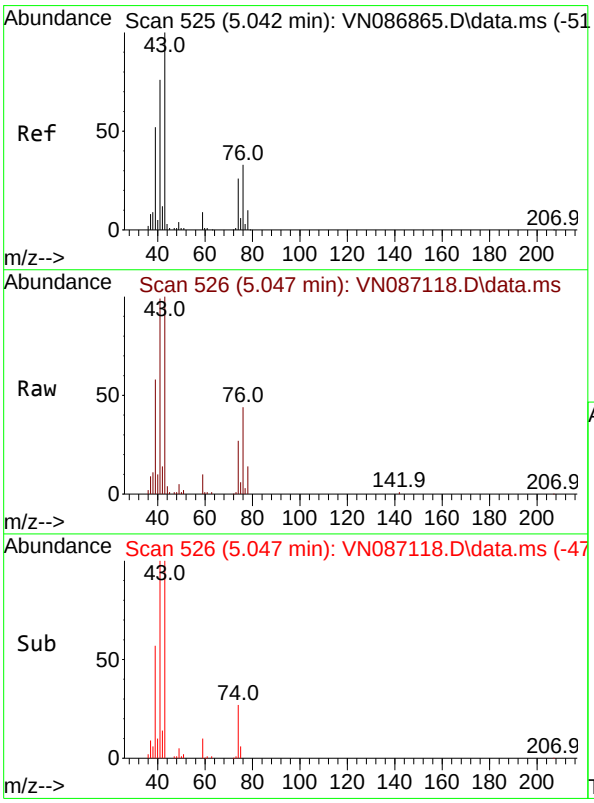
Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

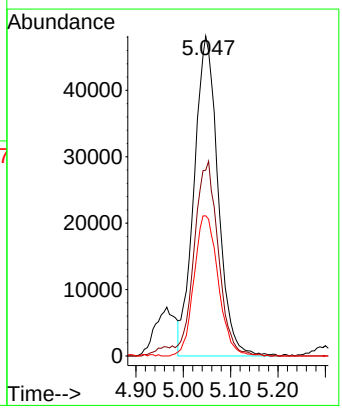
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

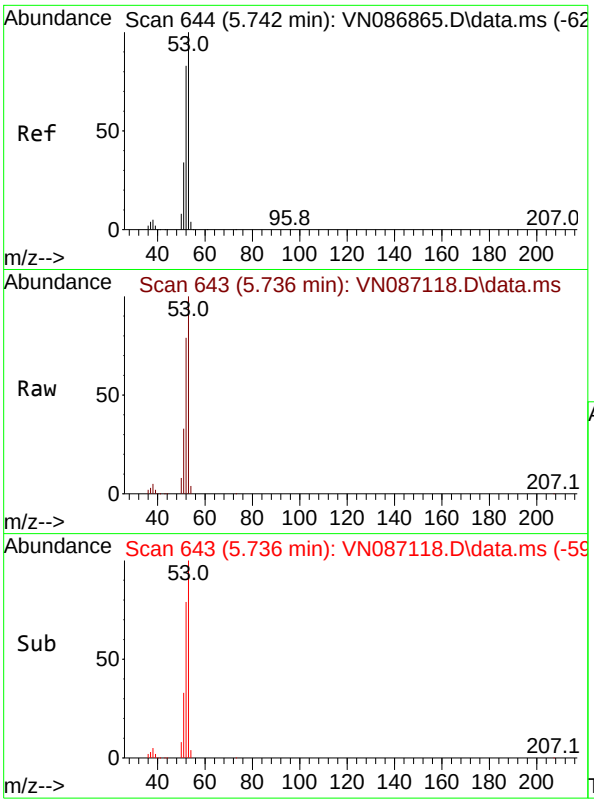


#14
Allyl chloride
Concen: 50.732 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 41 Resp: 169252

Ion	Ratio	Lower	Upper
41	100		
39	61.1	51.3	76.9
76	44.5	31.4	47.0





#15
Acrylonitrile
Concen: 269.496 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

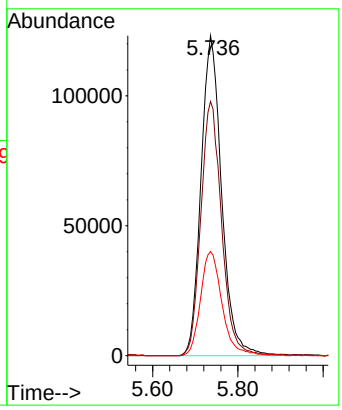
Tgt Ion: 53 Resp: 41360

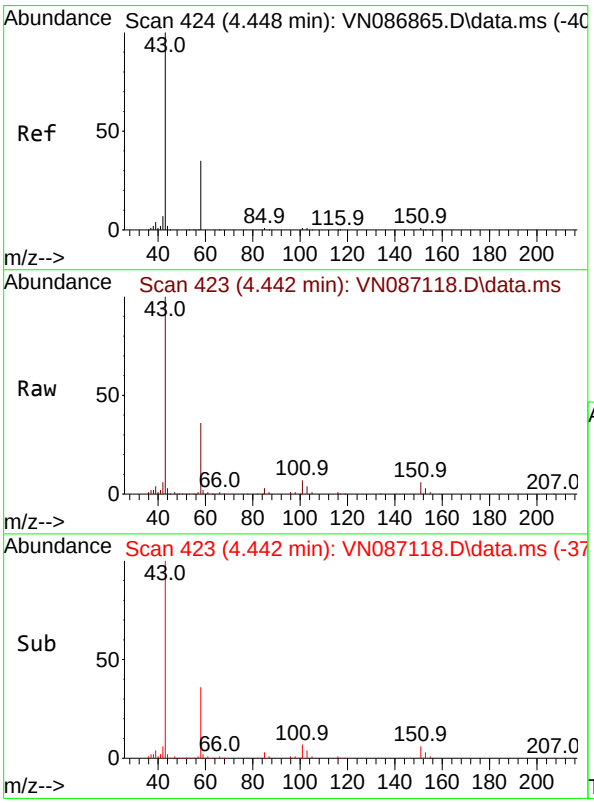
Ion	Ratio	Lower	Upper
53	100		
52	79.9	65.0	97.6
51	33.8	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

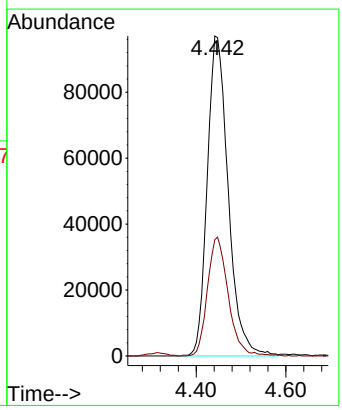


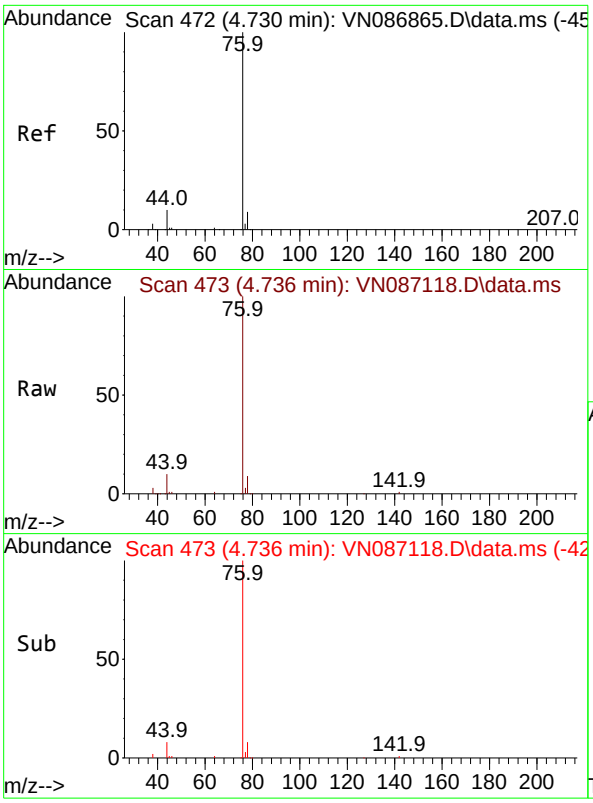


#16
Acetone
Concen: 245.380 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 43 Resp: 314890

Ion	Ratio	Lower	Upper
43	100		
58	36.4	28.0	42.0

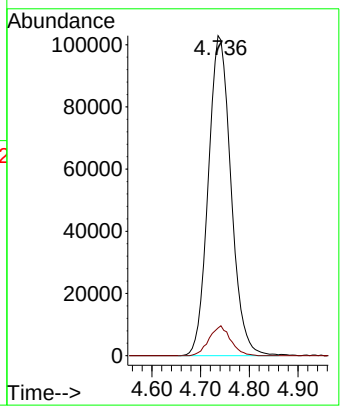




#17
Carbon Disulfide
Concen: 59.951 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 76 Resp: 33359

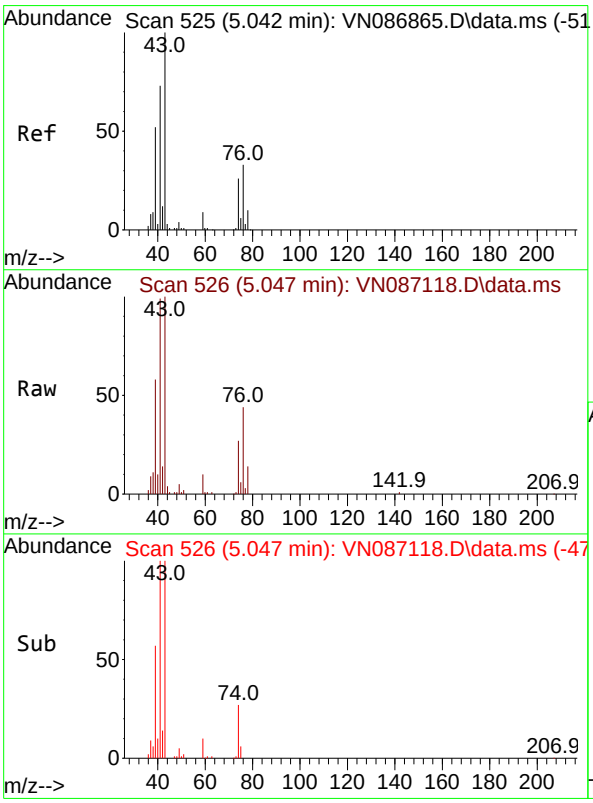
Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

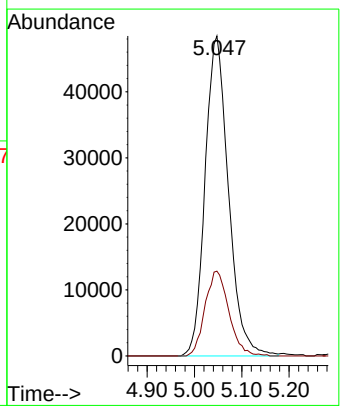
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

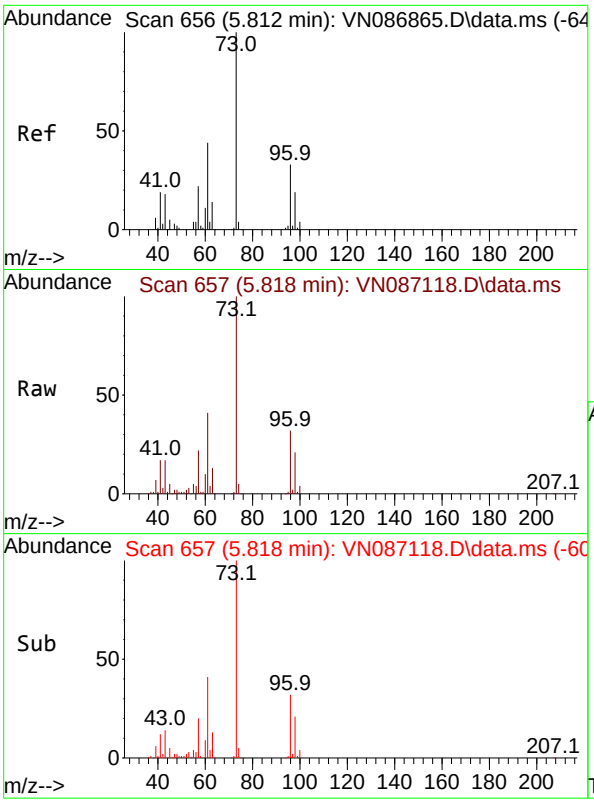


#18
Methyl Acetate
Concen: 44.346 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 43 Resp: 165839

Ion	Ratio	Lower	Upper
43	100		
74	27.1	20.7	31.1

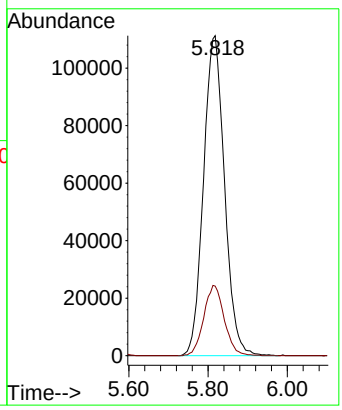




#19
Methyl tert-butyl Ether
Concen: 56.192 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 73 Resp: 40928

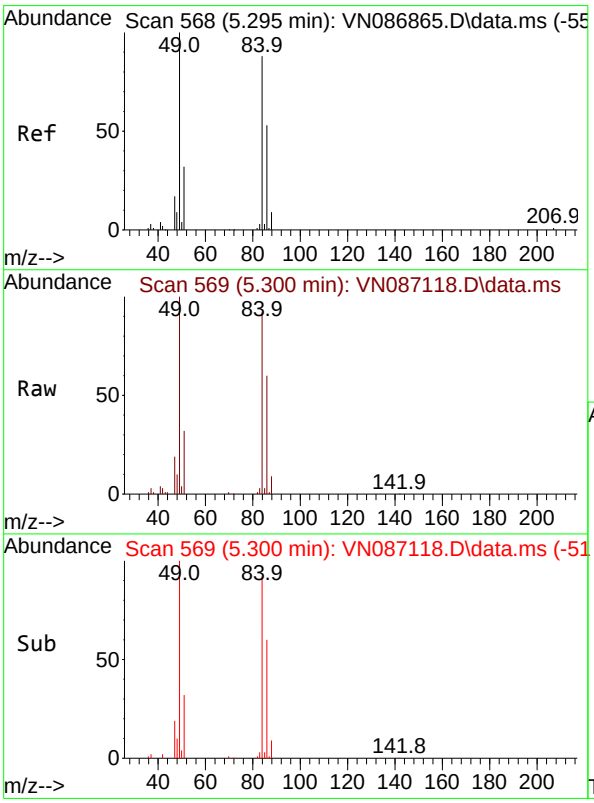
Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

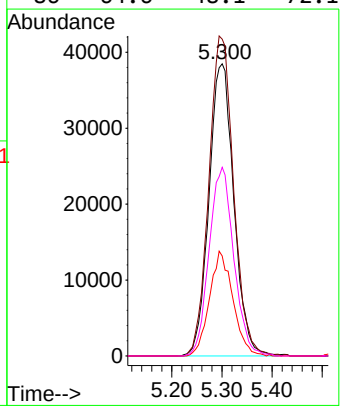
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

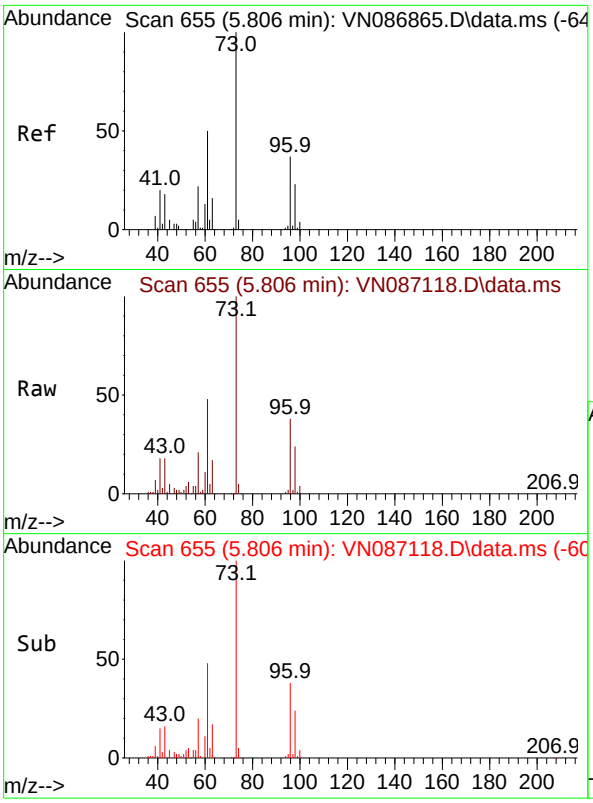


#20
Methylene Chloride
Concen: 55.186 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 84 Resp: 132585

Ion	Ratio	Lower	Upper
84	100		
49	108.4	90.5	135.7
51	34.2	28.5	42.7
86	64.6	48.1	72.1





#21
trans-1,2-Dichloroethene
Concen: 56.928 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

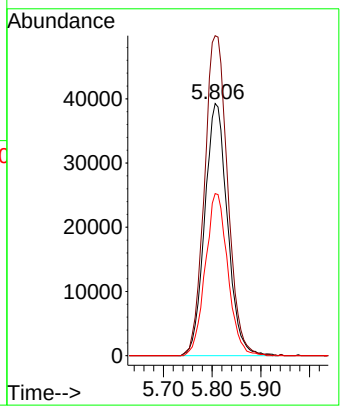
Tgt Ion: 96 Resp: 12741

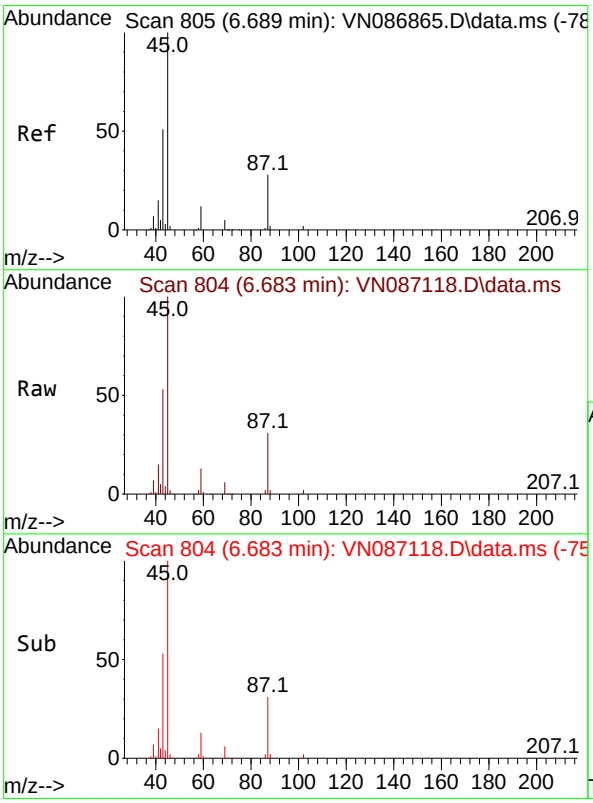
Ion	Ratio	Lower	Upper
96	100		
61	126.9	109.2	163.8
98	64.3	49.8	74.8

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

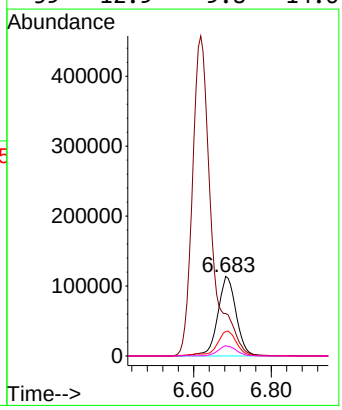


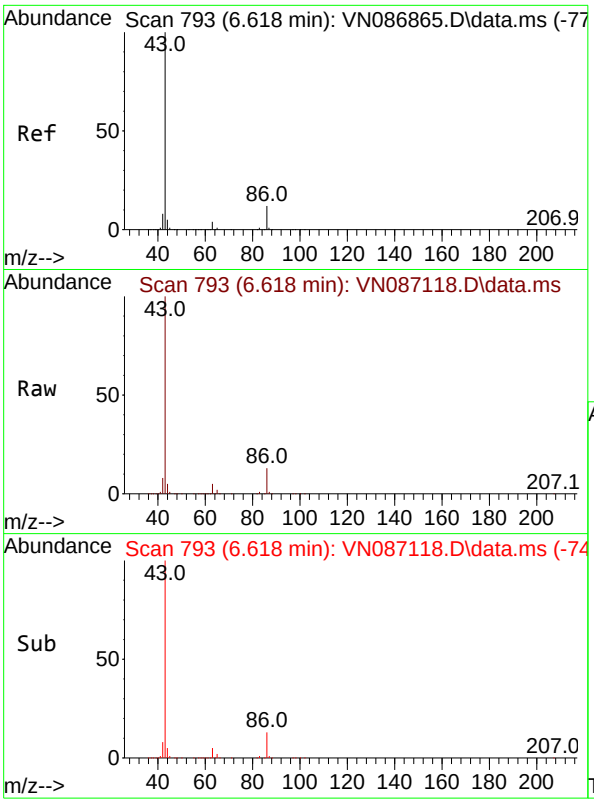


#22
Diisopropyl ether
Concen: 53.253 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 45 Resp: 374500

Ion	Ratio	Lower	Upper
45	100		
43	52.8	41.9	62.9
87	30.8	22.4	33.6
59	12.9	9.8	14.6

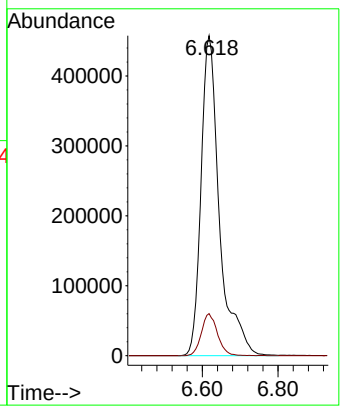




#23
Vinyl Acetate
Concen: 259.551 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 43 Resp: 154216

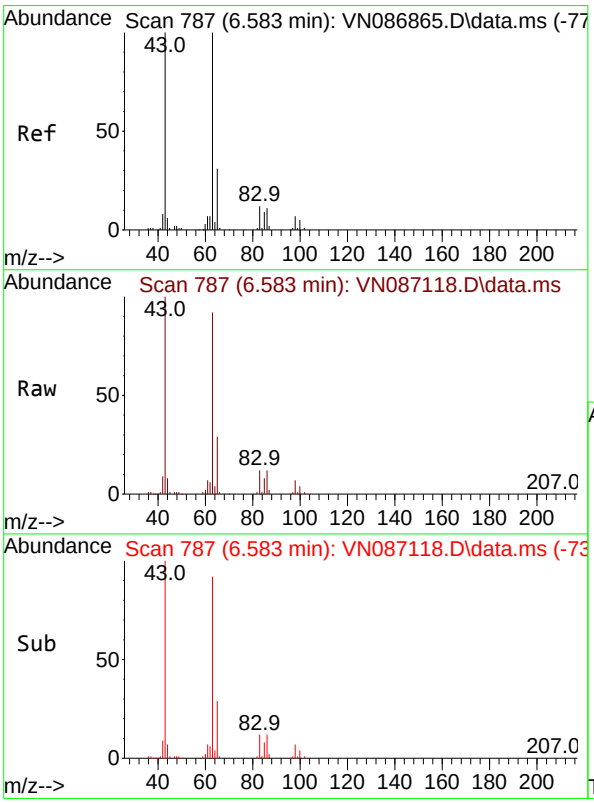
Ion	Ratio	Lower	Upper
43	100		
86	13.1	9.5	14.3



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

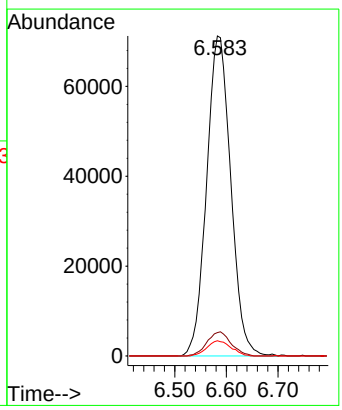
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

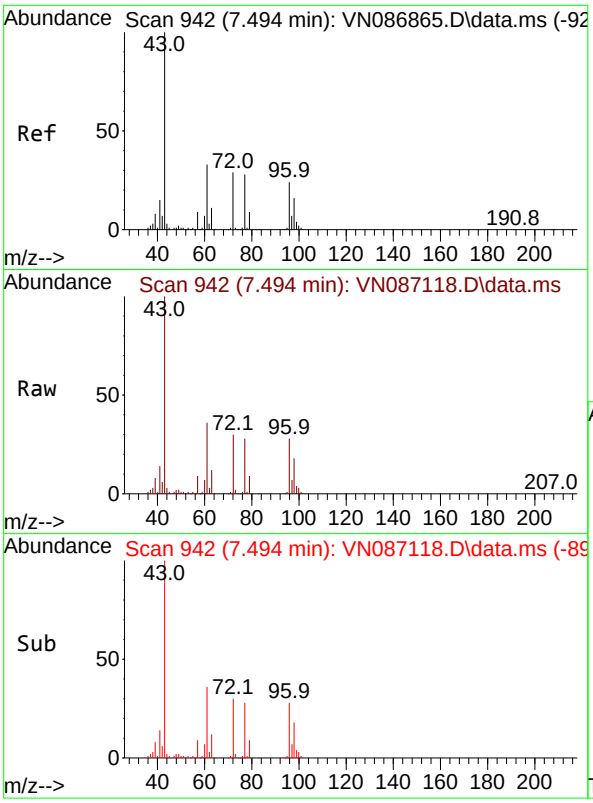


#24
1,1-Dichloroethane
Concen: 57.065 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 63 Resp: 230943

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.6	10.8
100	4.8	2.6	7.8





#25
2-Butanone
Concen: 249.041 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

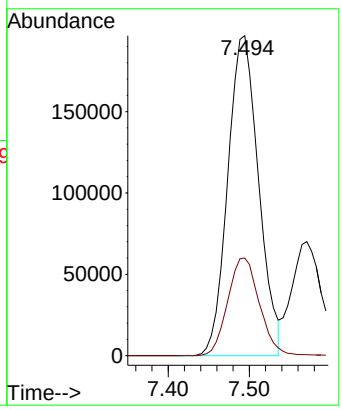
Tgt Ion: 43 Resp: 51948

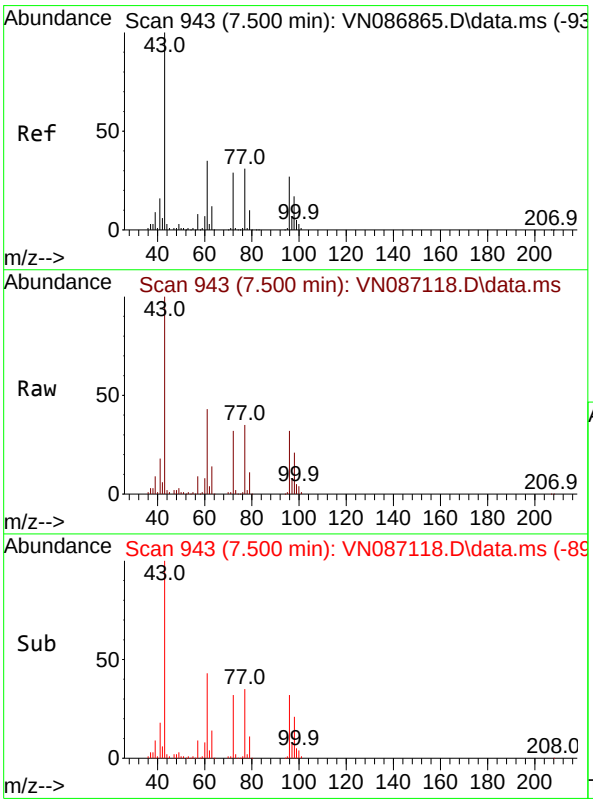
Ion	Ratio	Lower	Upper
43	100		
72	30.5	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

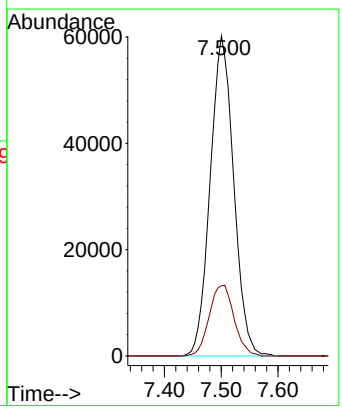


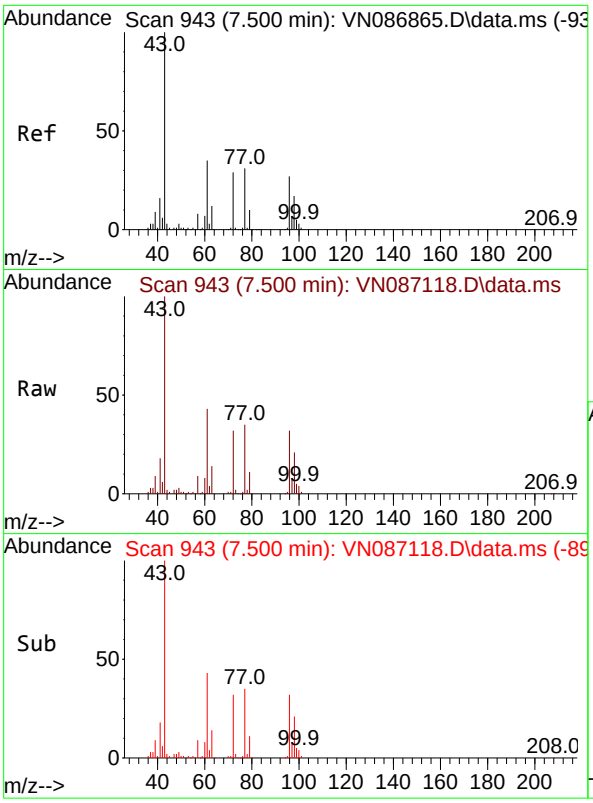


#26
2,2-Dichloropropane
Concen: 54.949 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 77 Resp: 172985

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.6	34.7

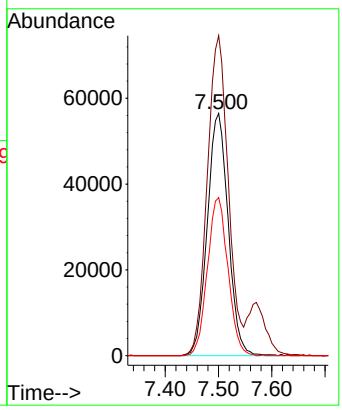




#27
cis-1,2-Dichloroethene
Concen: 57.469 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 96 Resp: 15382

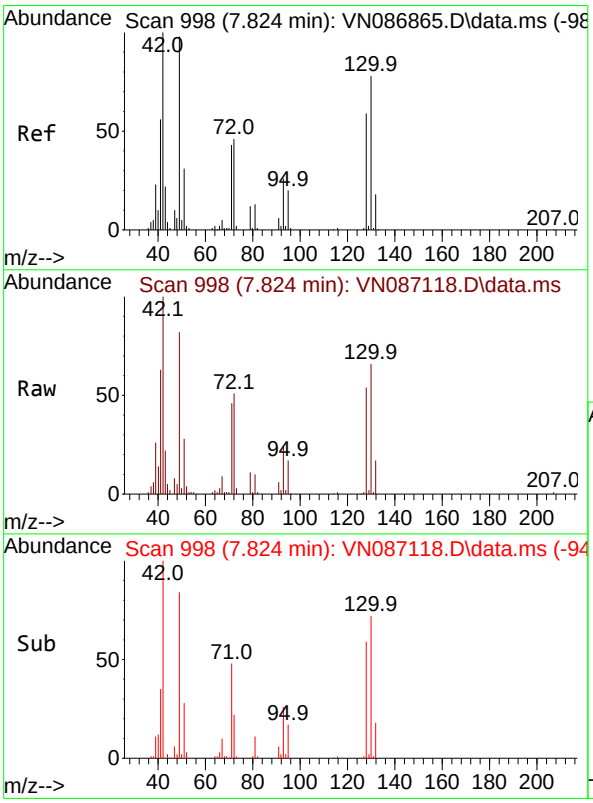
Ion	Ratio	Lower	Upper
96	100		
61	132.8	0.0	278.0
98	64.1	0.0	128.2



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

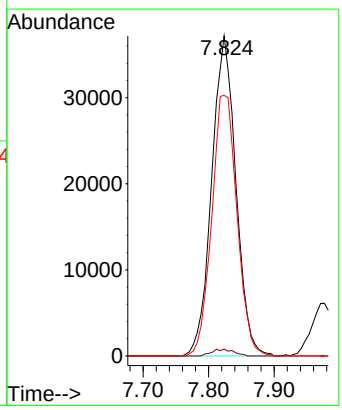
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

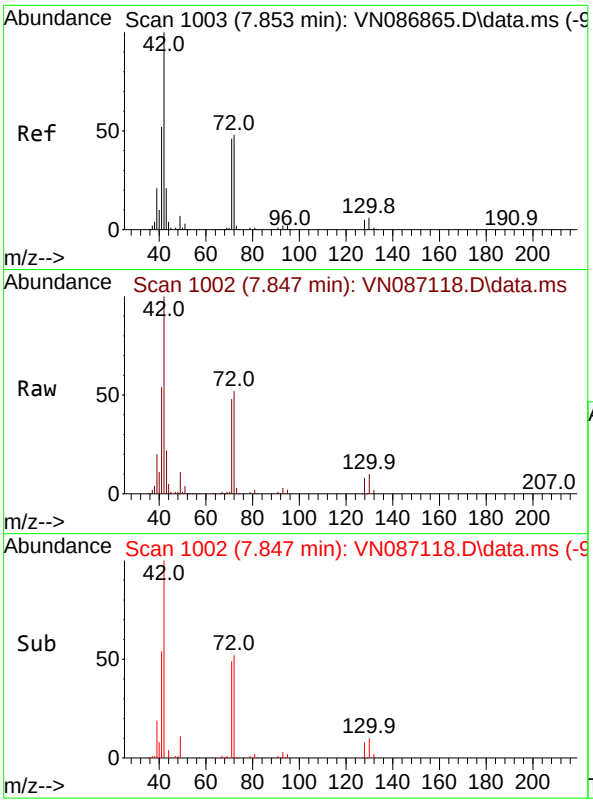


#28
Bromochloromethane
Concen: 47.769 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 49 Resp: 95053

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	85.0	62.2	93.2

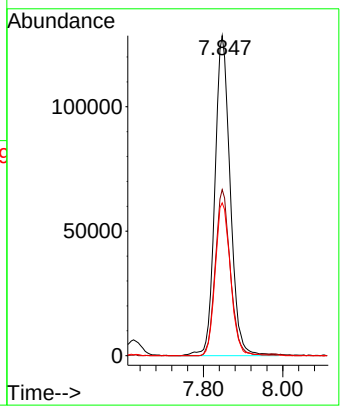




#29
Tetrahydrofuran
Concen: 253.893 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 42 Resp: 34499

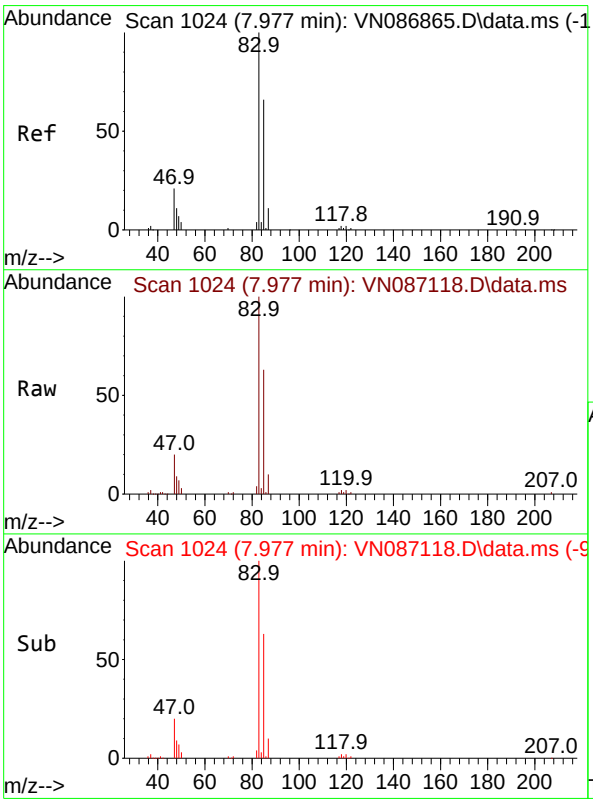
Ion	Ratio	Lower	Upper
42	100		
72	50.7	37.8	56.6
71	47.7	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

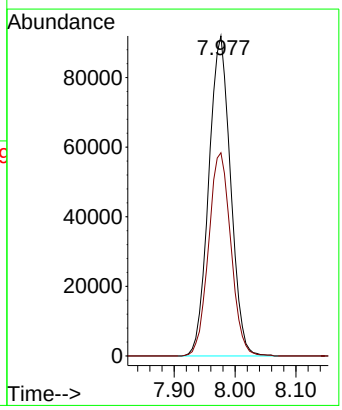
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

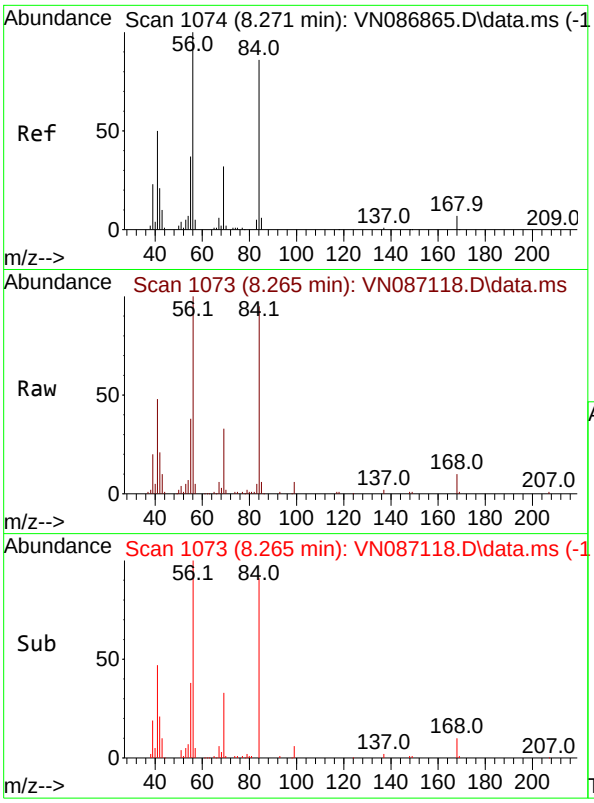


#30
Chloroform
Concen: 56.534 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 83 Resp: 228488

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.9	79.3





#31
Cyclohexane
Concen: 51.057 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

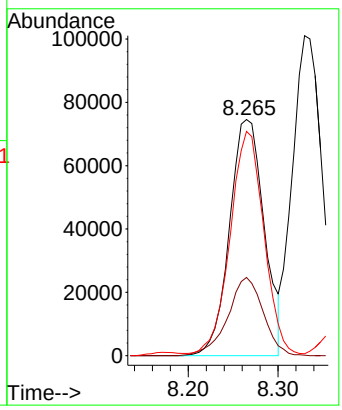
Tgt Ion: 56 Resp: 20038

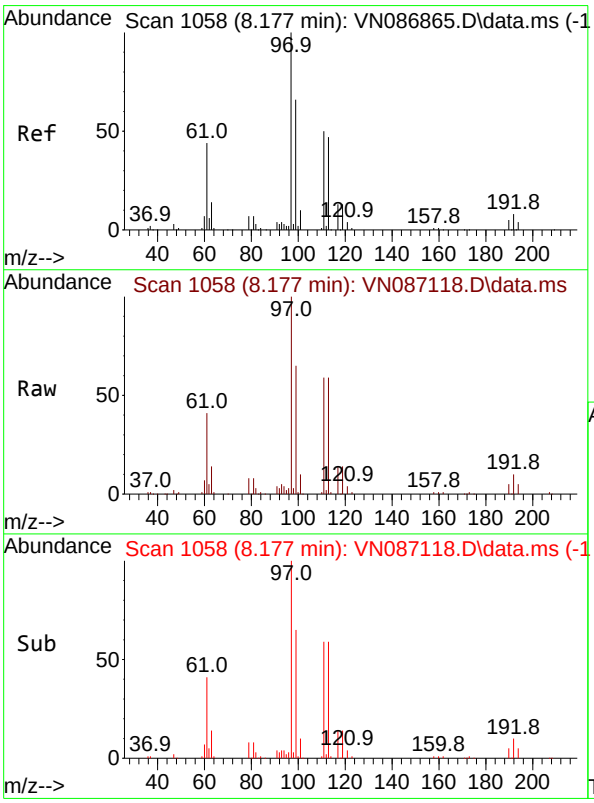
Ion	Ratio	Lower	Upper
56	100		
69	33.2	25.4	38.0
84	94.0	68.8	103.2

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

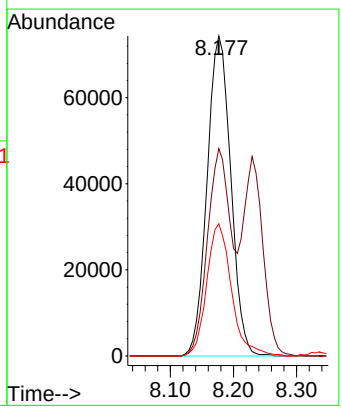


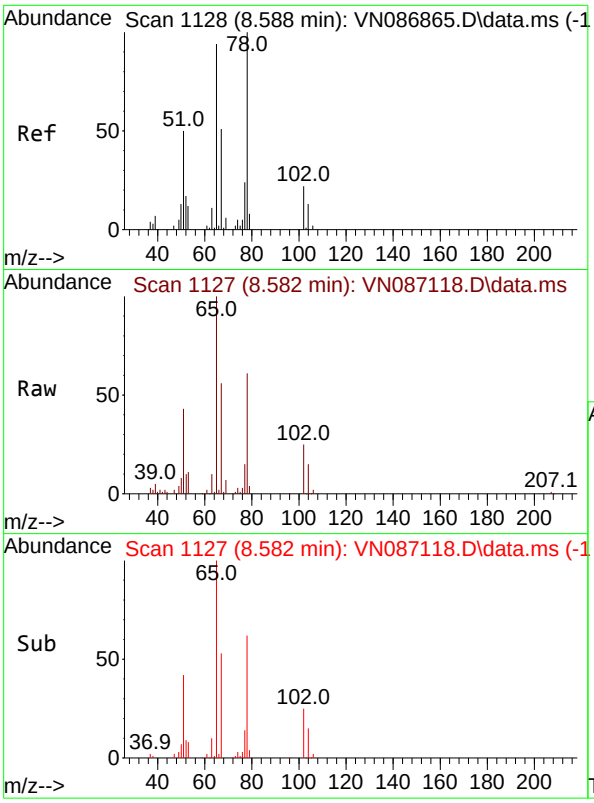


#32
1,1,1-Trichloroethane
Concen: 56.394 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 97 Resp: 193854

Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.0	78.0
61	43.1	35.9	53.9





#33
1,2-Dichloroethane-d4
Concen: 50.011 ug/l
RT: 8.582 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

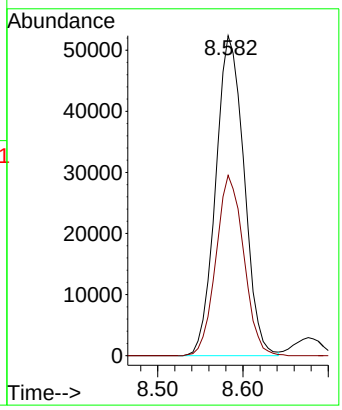
Tgt Ion: 65 Resp: 12102

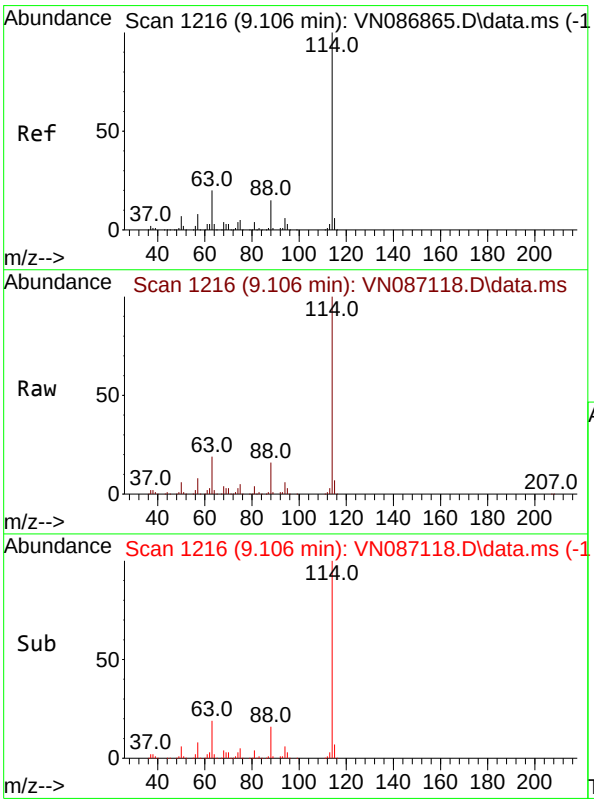
Ion	Ratio	Lower	Upper
65	100		
67	55.2	0.0	105.6

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

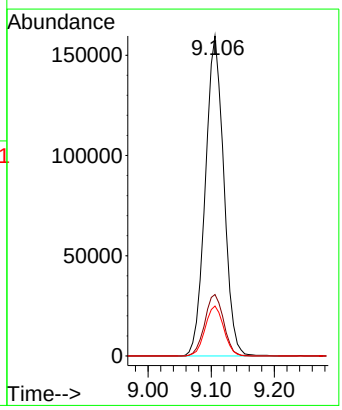


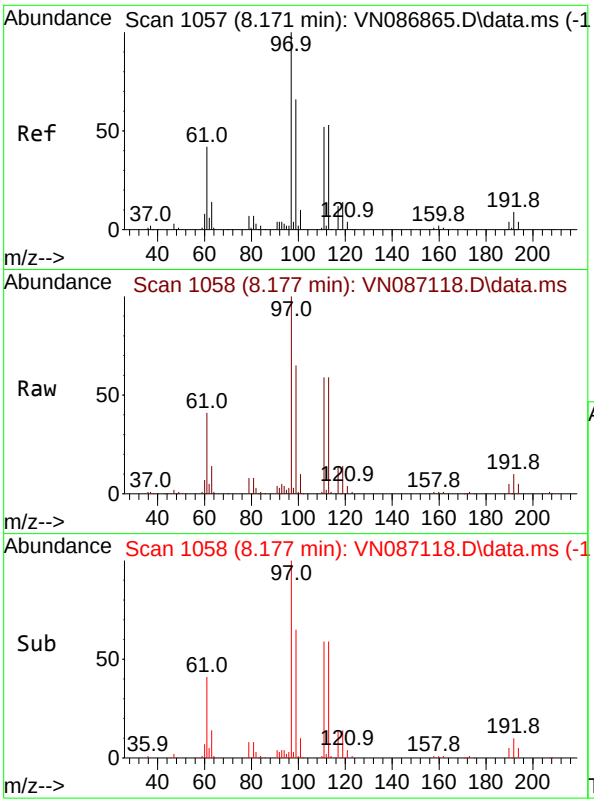


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:114 Resp: 323339

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	39.6
88	15.6	0.0	30.2

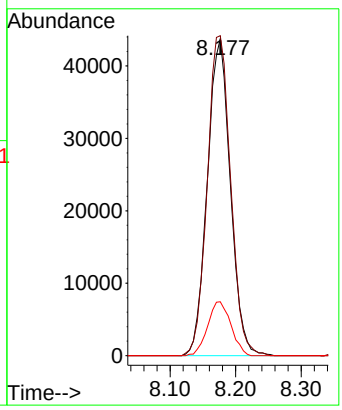




#35
Dibromofluoromethane
Concen: 55.650 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:113 Resp: 10663

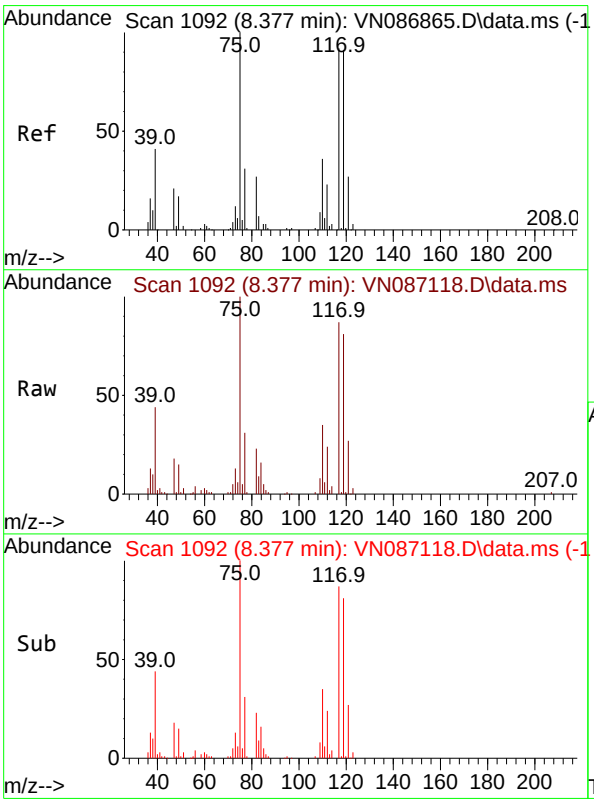
Ion	Ratio	Lower	Upper
113	100		
111	102.6	84.2	126.2
192	17.2	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

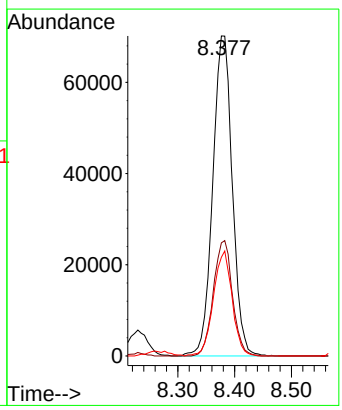
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

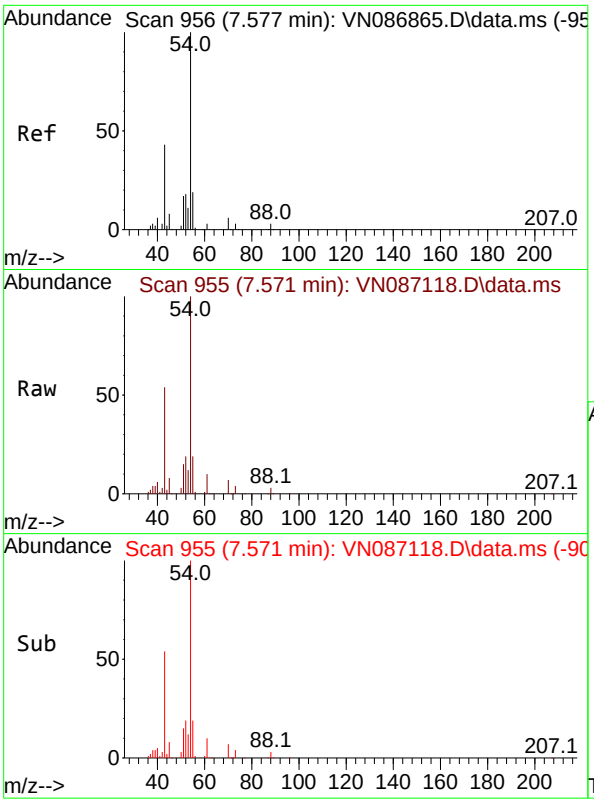


#36
1,1-Dichloropropene
Concen: 58.734 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 75 Resp: 167705

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.6	52.9
77	31.5	25.3	37.9





#37
Ethyl Acetate
Concen: 52.109 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

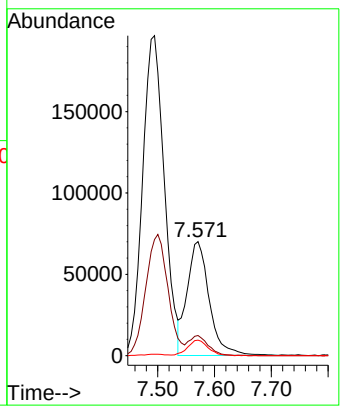
Tgt Ion: 43 Resp: 18940

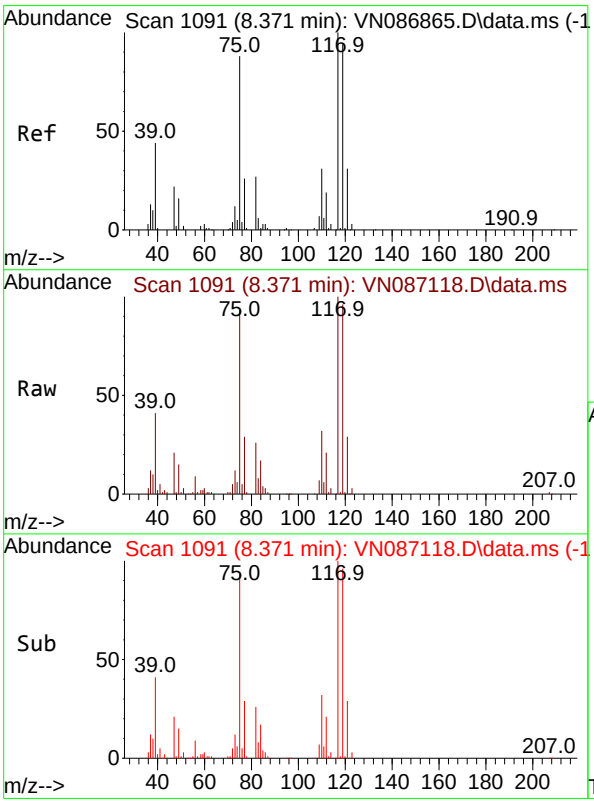
Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.1	18.1
70	12.6	9.8	14.6

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

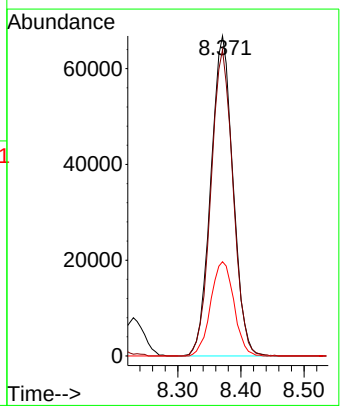


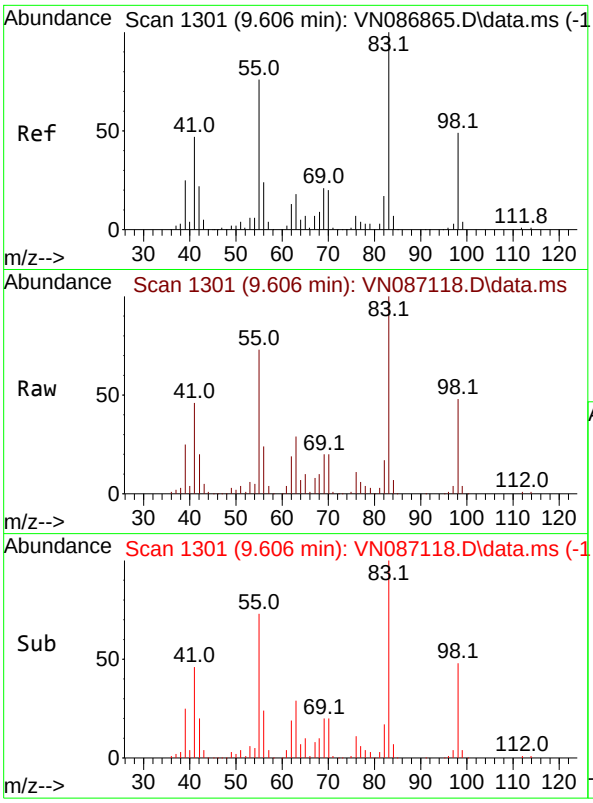


#38
Carbon Tetrachloride
Concen: 58.171 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:117 Resp: 163068

Ion	Ratio	Lower	Upper
117	100		
119	95.7	75.0	112.6
121	29.4	24.9	37.3

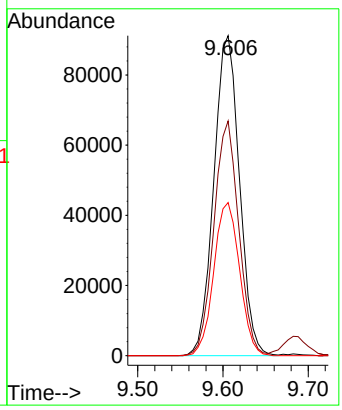




#39
Methylcyclohexane
Concen: 48.745 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 83 Resp: 19068

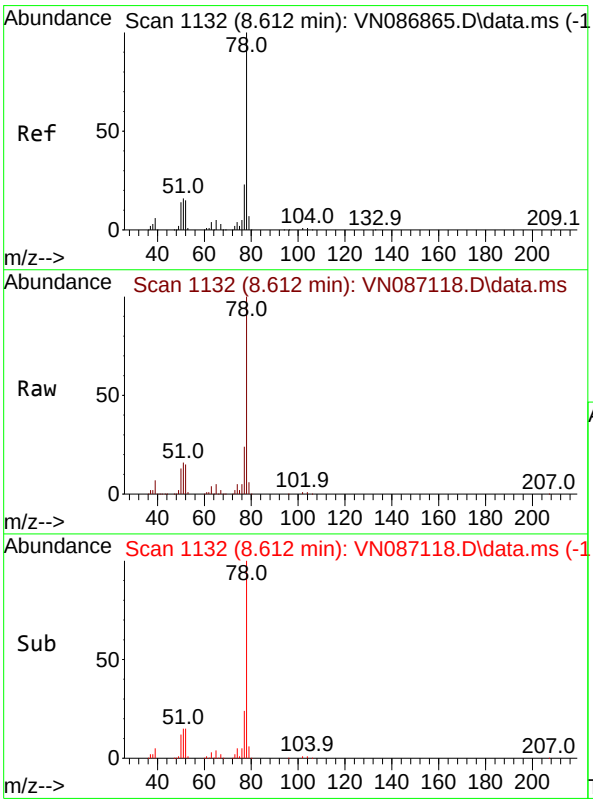
Ion	Ratio	Lower	Upper
83	100		
55	73.3	61.0	91.6
98	47.9	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

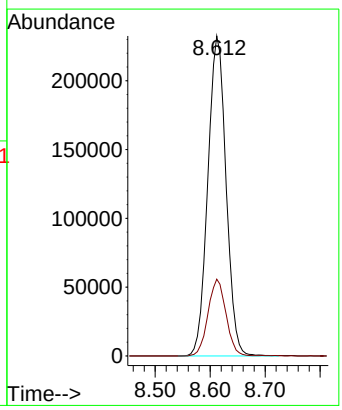
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

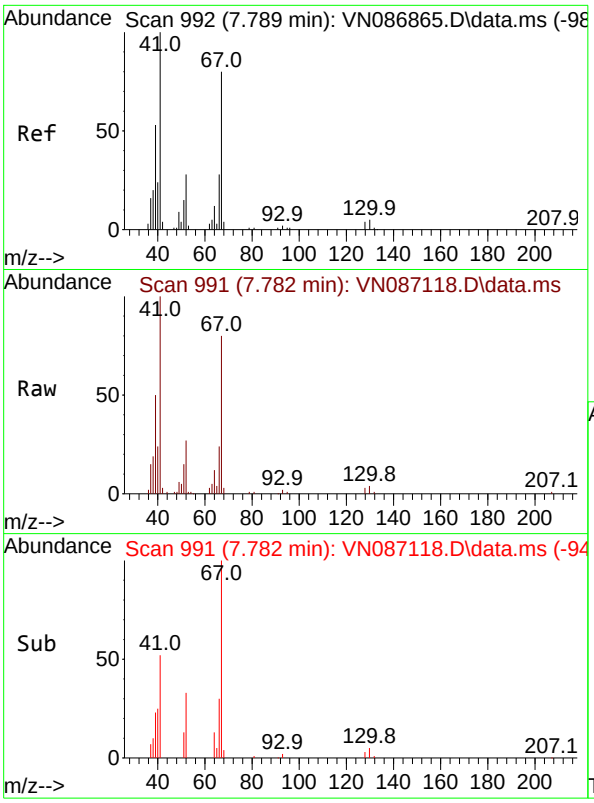


#40
Benzene
Concen: 57.404 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 78 Resp: 535976

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.7	28.1

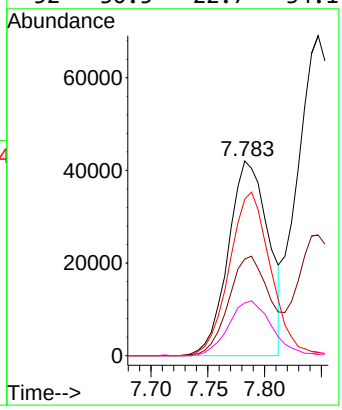




#41
Methacrylonitrile
Concen: 50.796 ug/l
RT: 7.782 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 41 Resp: 10369

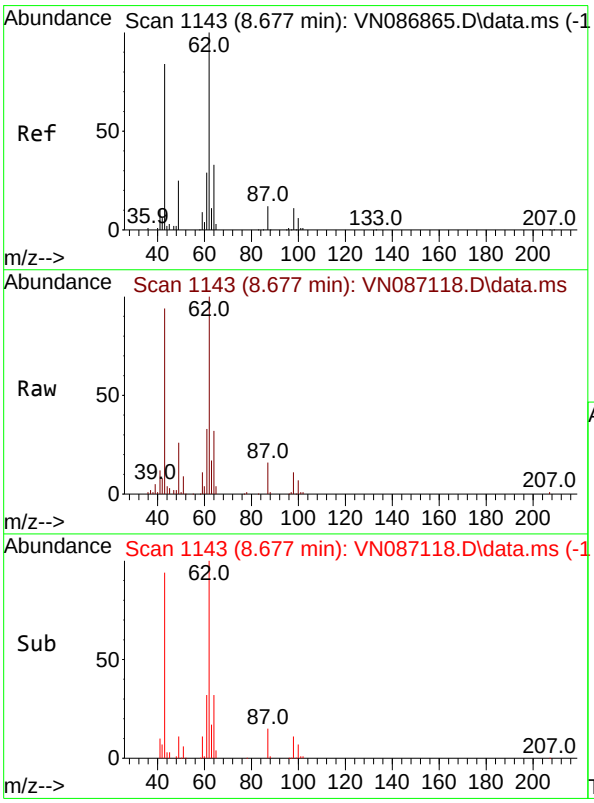
Ion	Ratio	Lower	Upper
41	100		
39	54.1	41.2	61.8
67	86.1	61.4	92.2
52	30.5	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

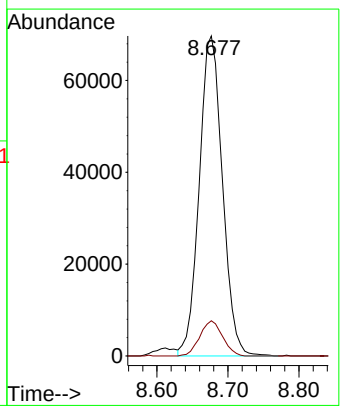
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

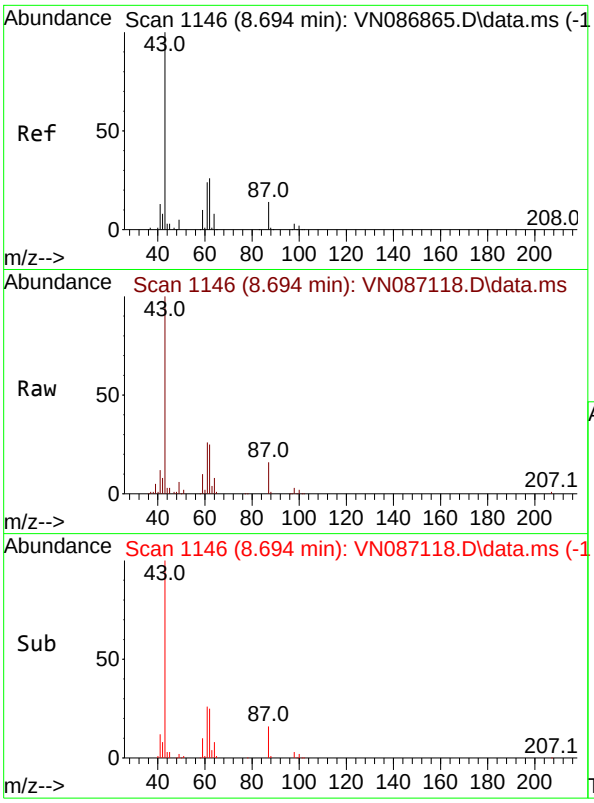


#42
1,2-Dichloroethane
Concen: 55.962 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 62 Resp: 158483

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	21.2

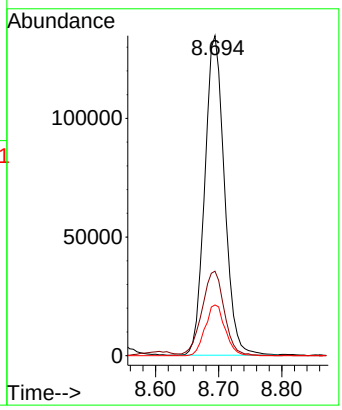




#43
Isopropyl Acetate
Concen: 50.032 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 43 Resp: 29187

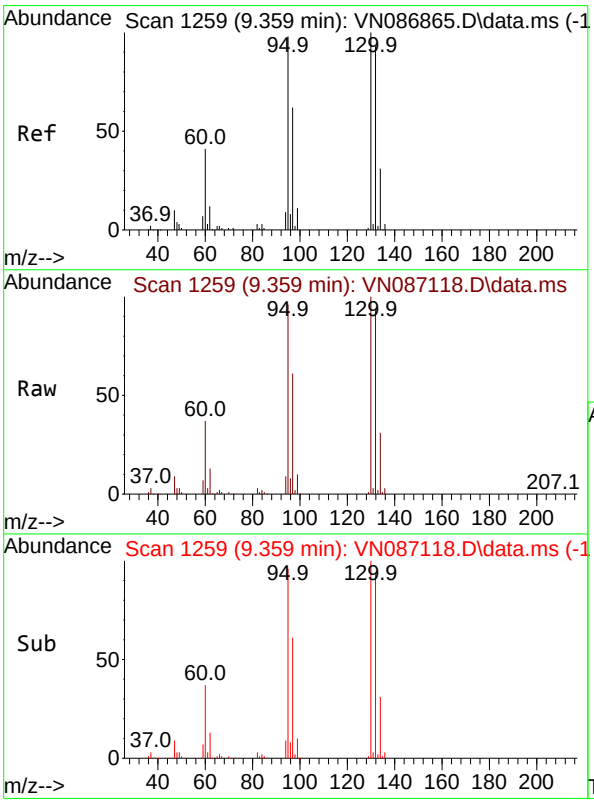
Ion	Ratio	Lower	Upper
43	100		
61	30.0	22.1	33.1
87	16.1	11.8	17.6



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

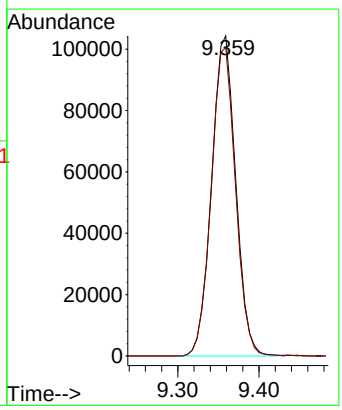
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

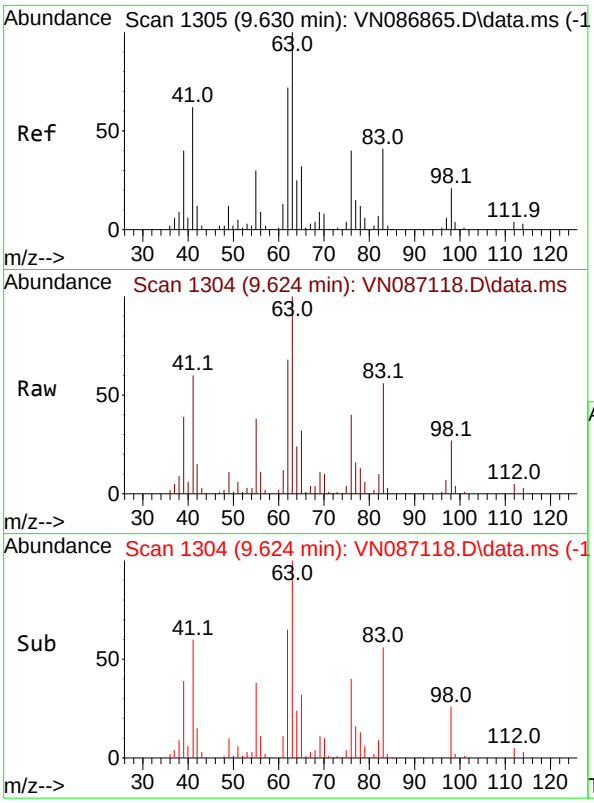


#44
Trichloroethene
Concen: 97.270 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:130 Resp: 215352

Ion	Ratio	Lower	Upper
130	100		
95	96.4	0.0	196.2

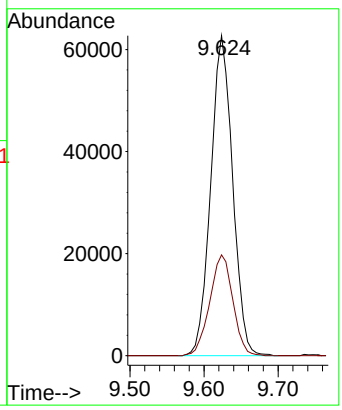




#45
1,2-Dichloropropane
Concen: 56.632 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 63 Resp: 12864

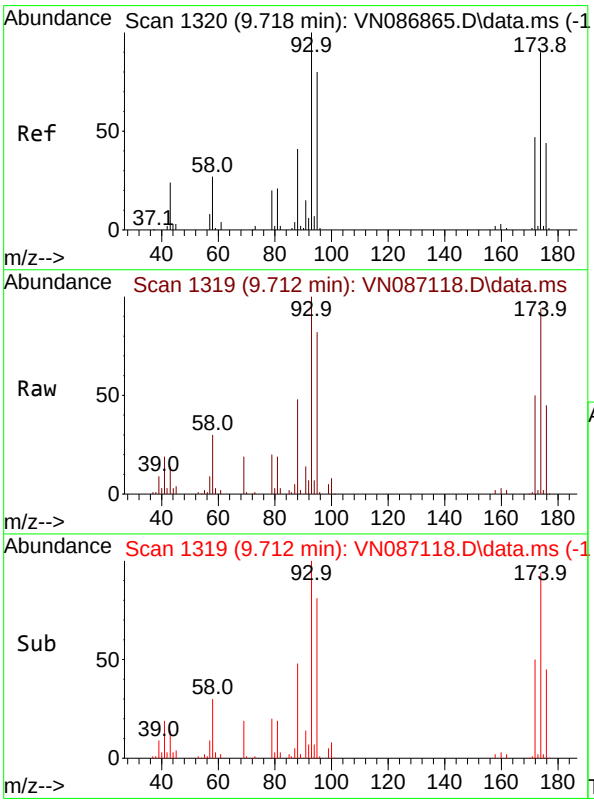
Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

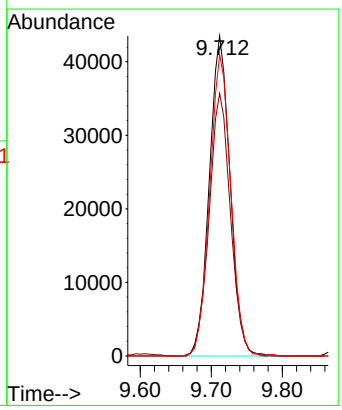
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

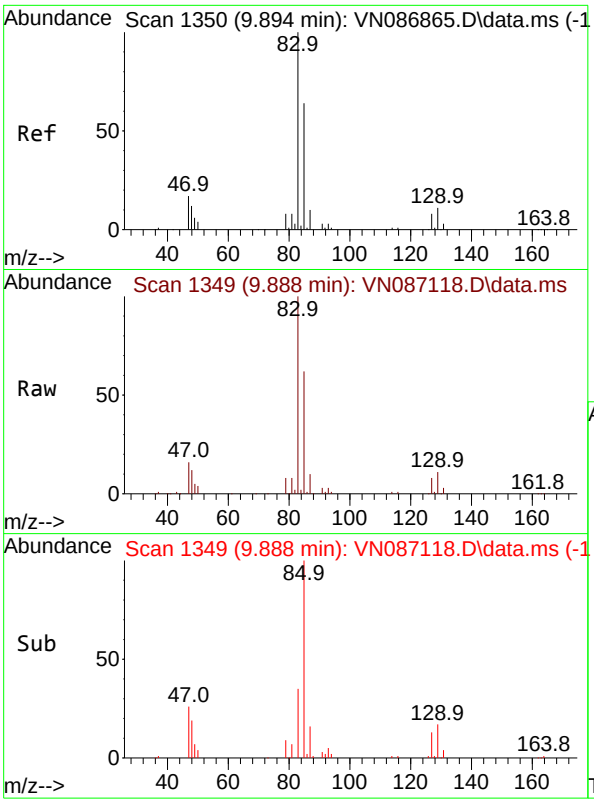


#46
Dibromomethane
Concen: 58.573 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 93 Resp: 88375

Ion	Ratio	Lower	Upper
93	100		
95	83.9	67.1	100.7
174	95.1	74.2	111.4

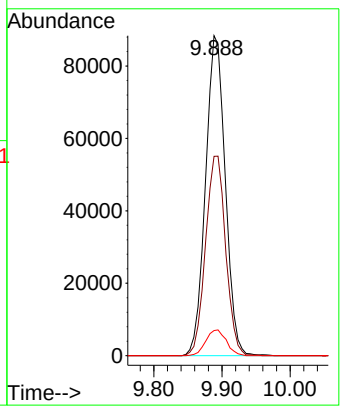




#47
Bromodichloromethane
Concen: 57.442 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 83 Resp: 17831

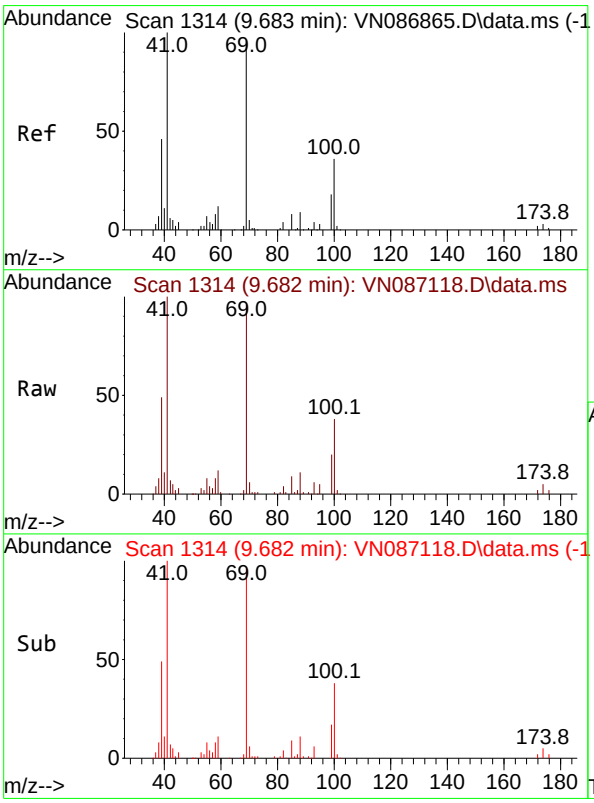
Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.9	76.3
127	7.8	6.6	10.0



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

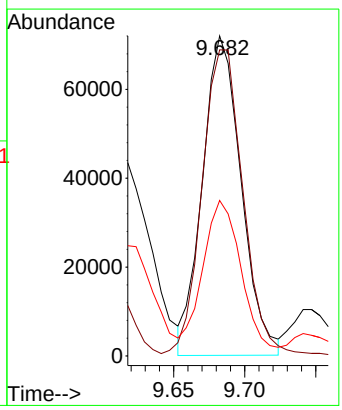
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

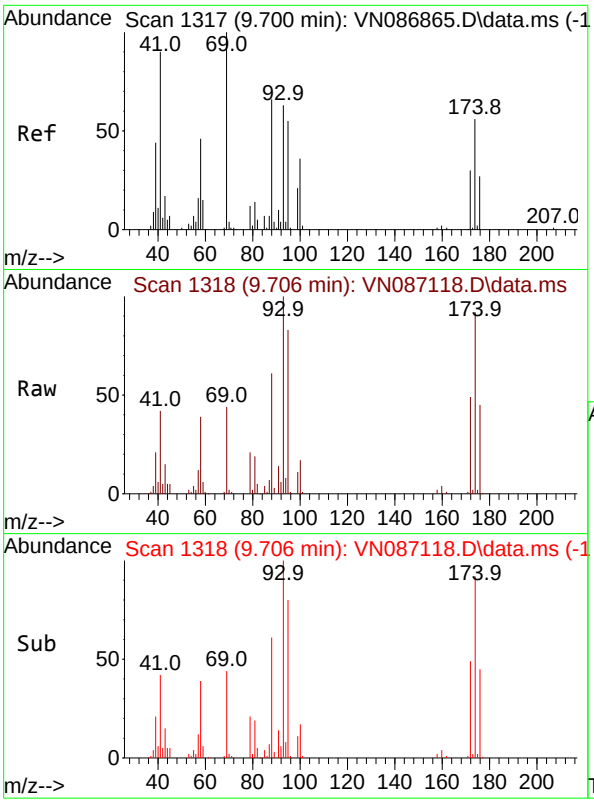


#48
Methyl methacrylate
Concen: 50.759 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 41 Resp: 136295

Ion	Ratio	Lower	Upper
41	100		
69	101.2	74.6	112.0
39	49.2	40.2	60.4





#49
1,4-Dioxane
Concen: 1178.993 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

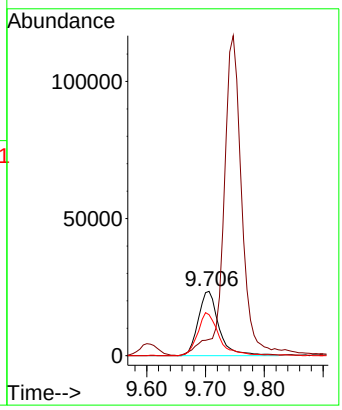
Tgt Ion: 88 Resp: 5759

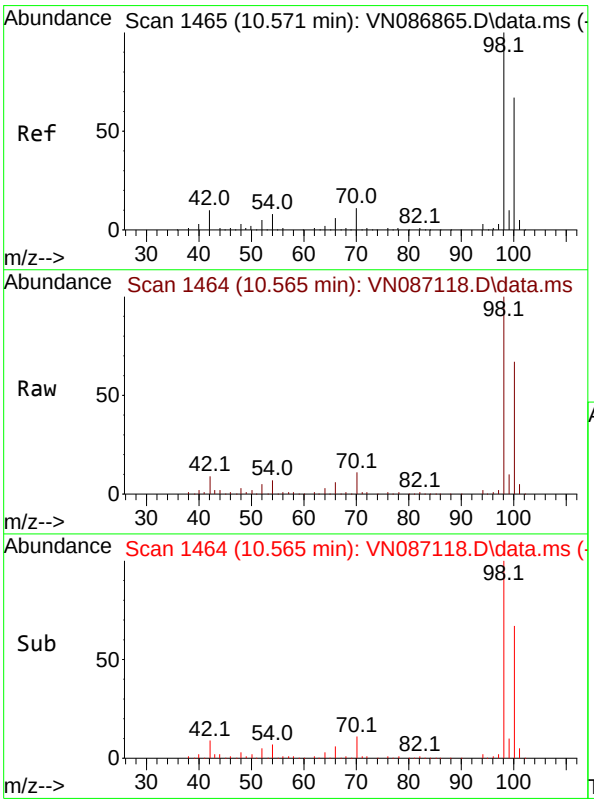
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	69.1	57.7	86.5

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

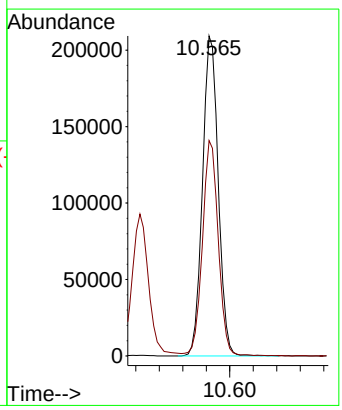


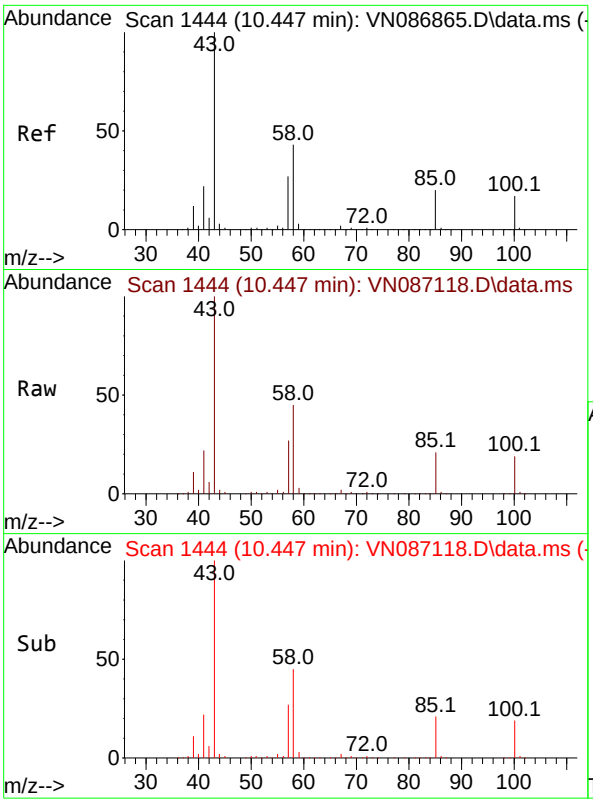


#50
Toluene-d8
Concen: 51.326 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 98 Resp: 389345

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.4	80.0





#51
4-Methyl-2-Pentanone
Concen: 268.964 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

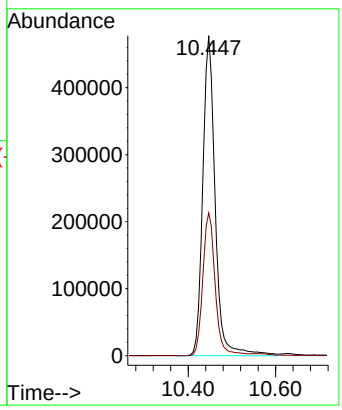
Tgt Ion: 43 Resp: 94461(

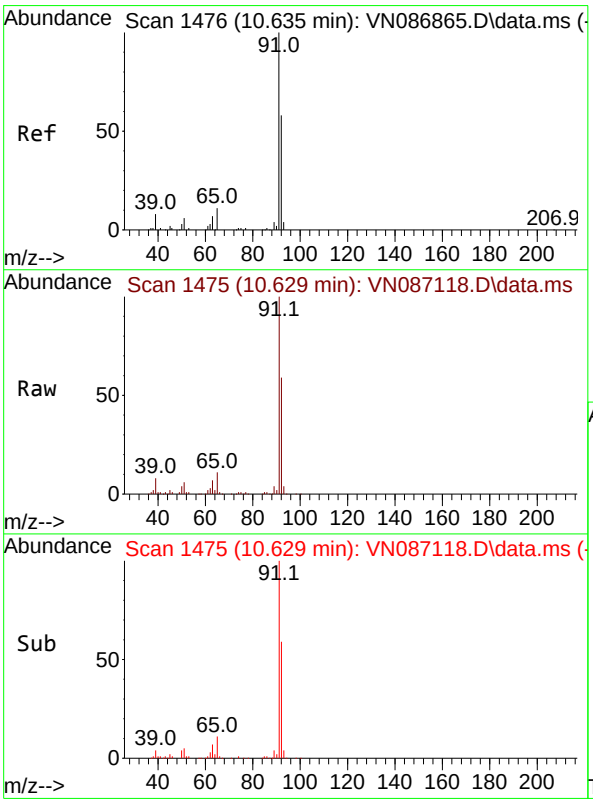
Ion	Ratio	Lower	Upper
43	100		
58	44.5	34.2	51.4

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

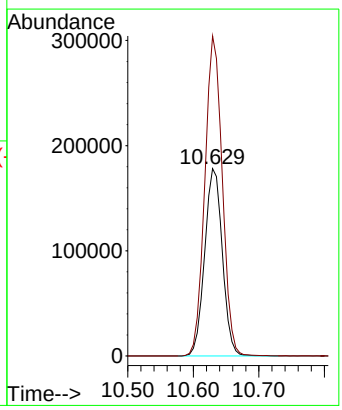


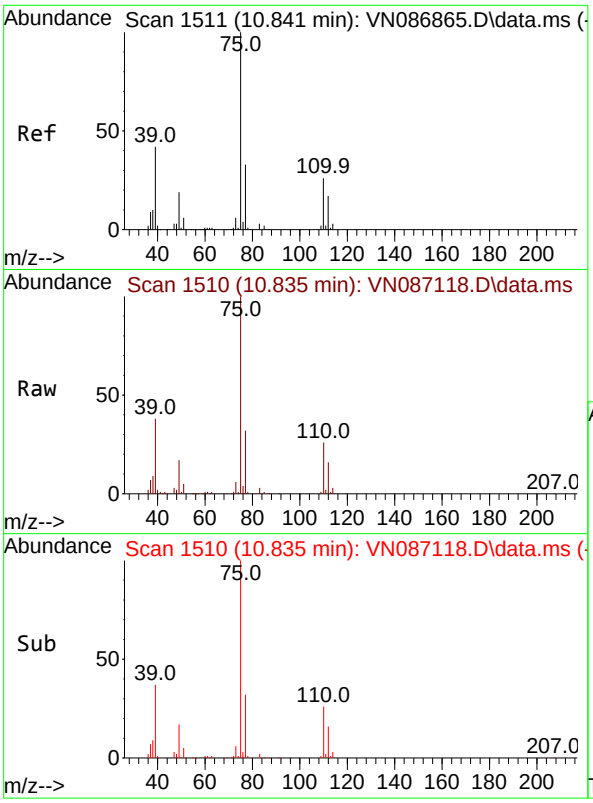


#52
Toluene
Concen: 58.579 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 92 Resp: 334253

Ion	Ratio	Lower	Upper
92	100		
91	168.6	136.5	204.7





#53
t-1,3-Dichloropropene
Concen: 57.068 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

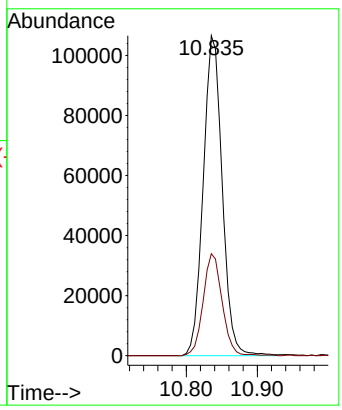
Tgt Ion: 75 Resp: 19809

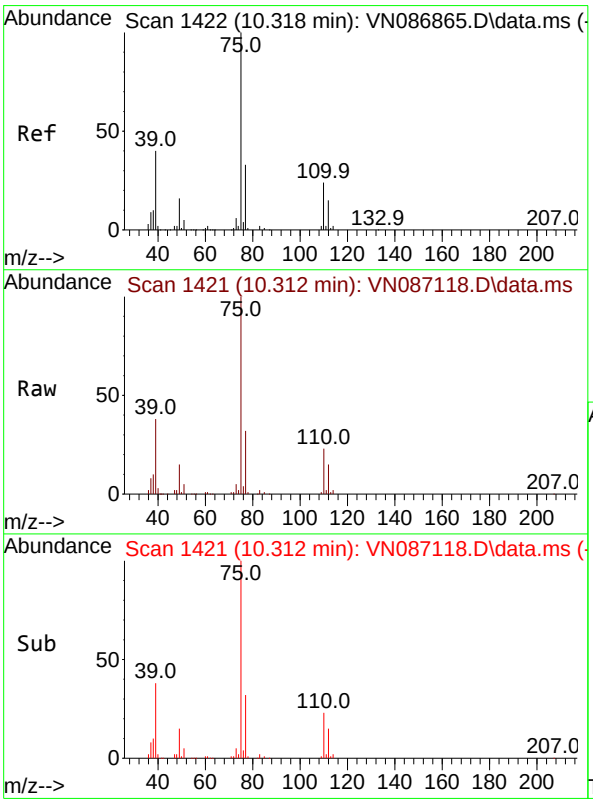
Ion	Ratio	Lower	Upper
75	100		
77	31.8	26.4	39.6

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

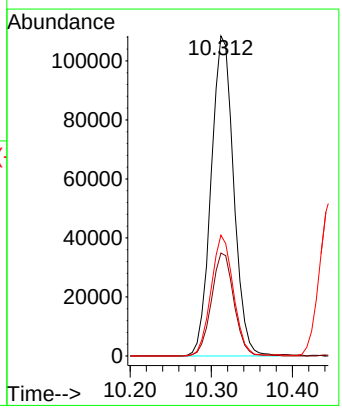


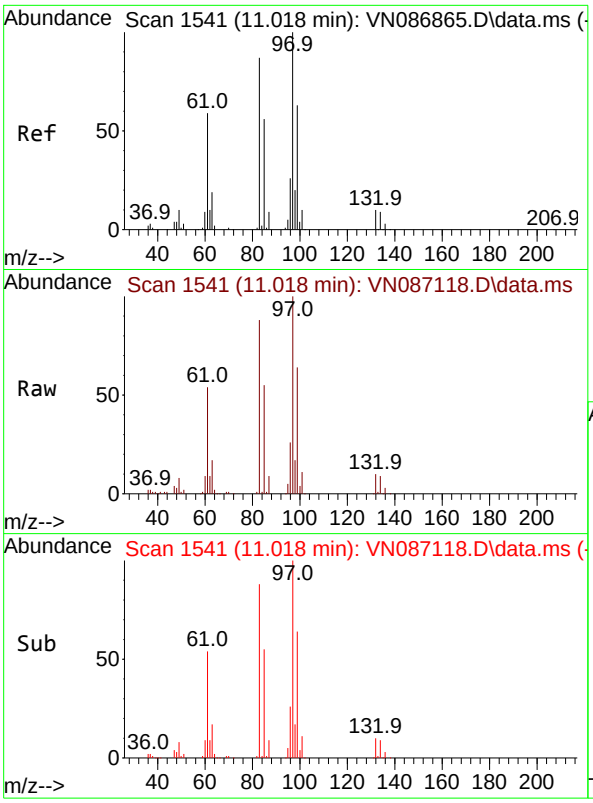


#54
cis-1,3-Dichloropropene
Concen: 56.337 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 75 Resp: 209243

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.2	39.4
39	37.7	32.3	48.5

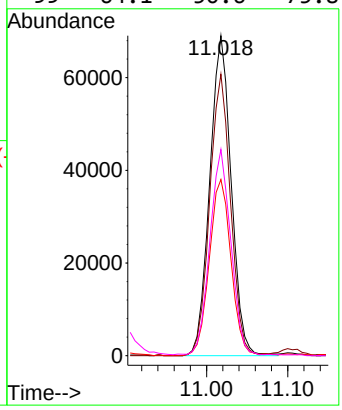




#55
1,1,2-Trichloroethane
Concen: 57.724 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 97 Resp: 12673

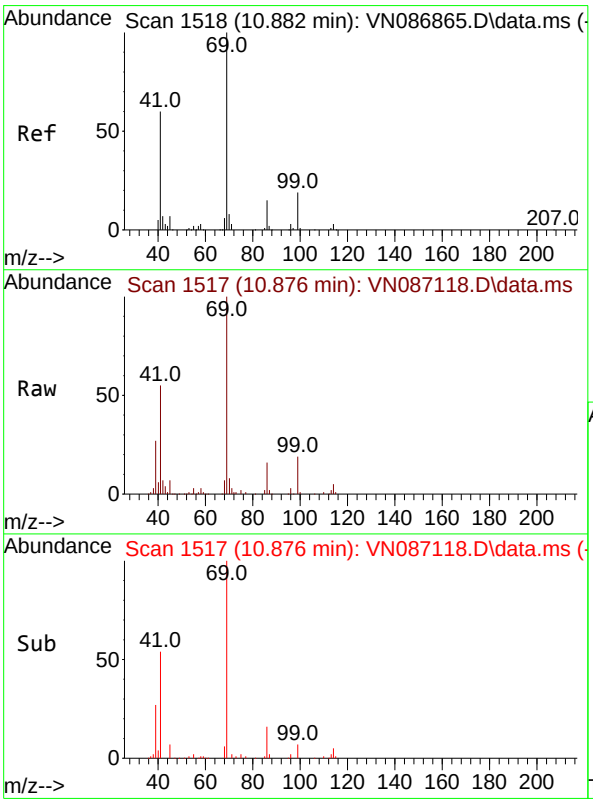
Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.7	104.5
85	55.0	45.1	67.7
99	64.1	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

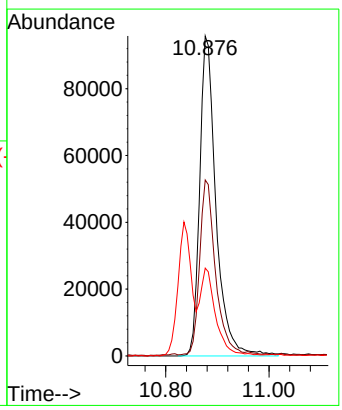
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

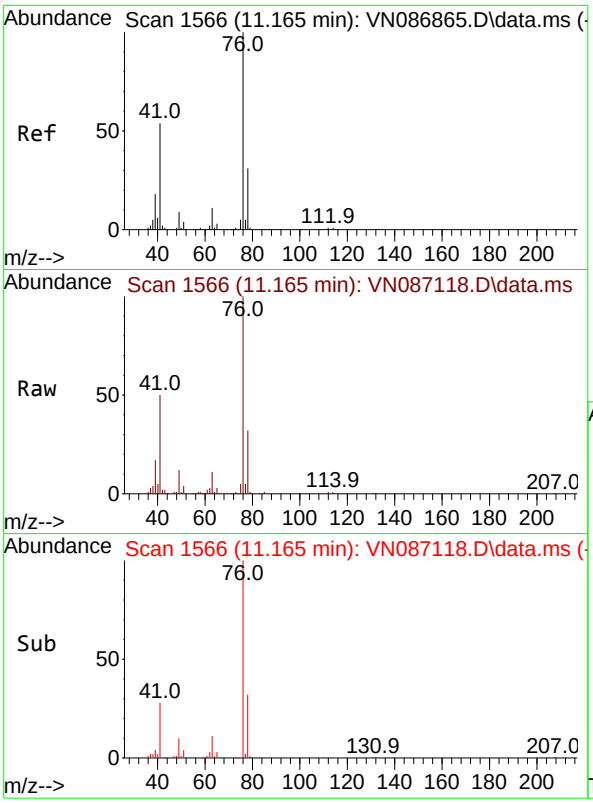


#56
Ethyl methacrylate
Concen: 59.895 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 69 Resp: 209456

Ion	Ratio	Lower	Upper
69	100		
41	53.3	47.2	70.8
39	25.5	23.0	34.6

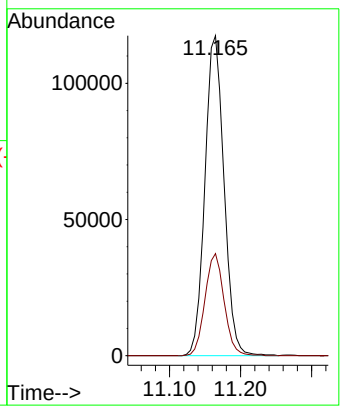




#57
1,3-Dichloropropane
Concen: 57.571 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 76 Resp: 21927

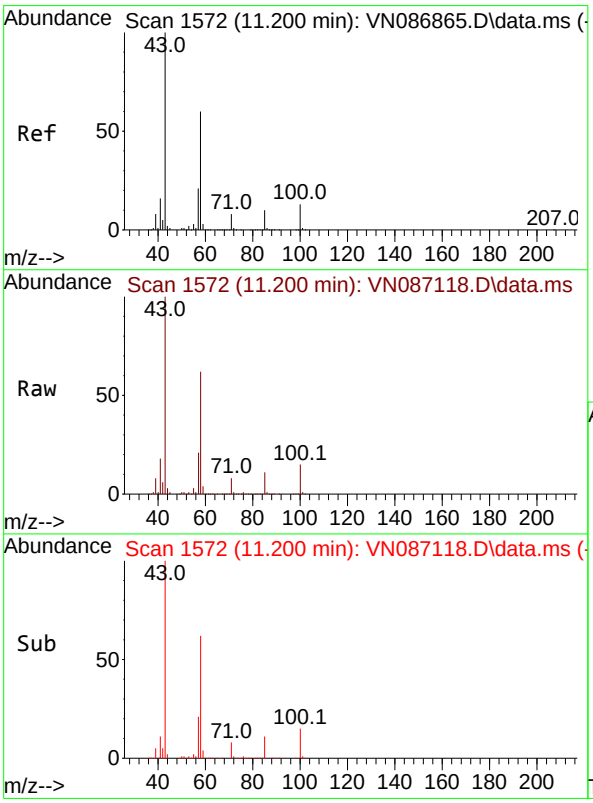
Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

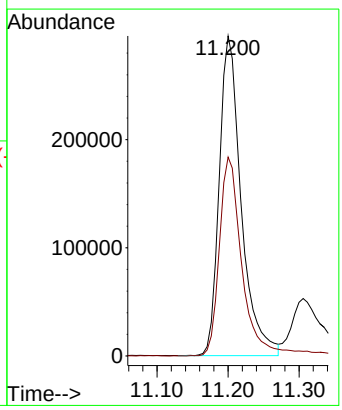
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

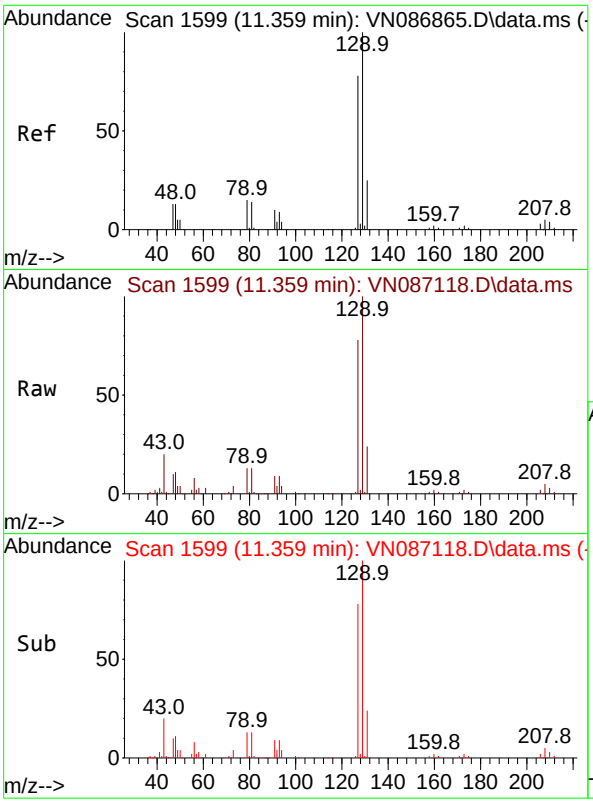


#59
2-Hexanone
Concen: 279.606 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 43 Resp: 632533

Ion	Ratio	Lower	Upper
43	100		
58	66.3	30.4	91.3

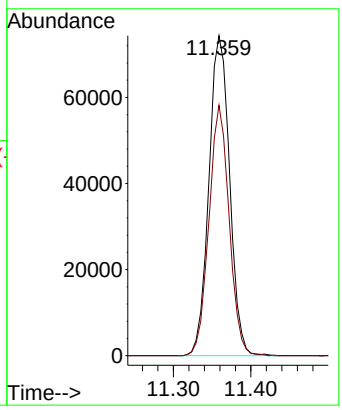




#60
Dibromochloromethane
Concen: 60.343 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:129 Resp: 13803

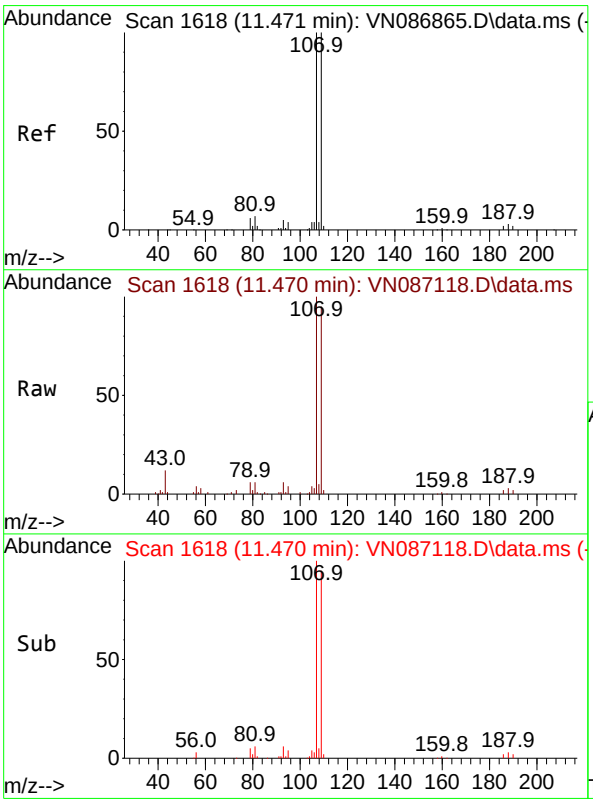
Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.6	115.8



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

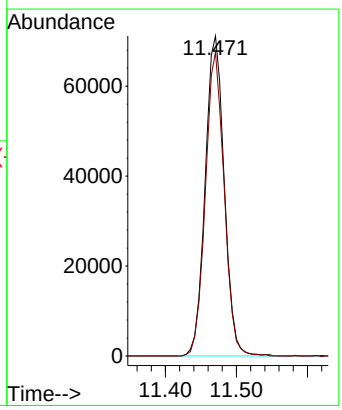
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

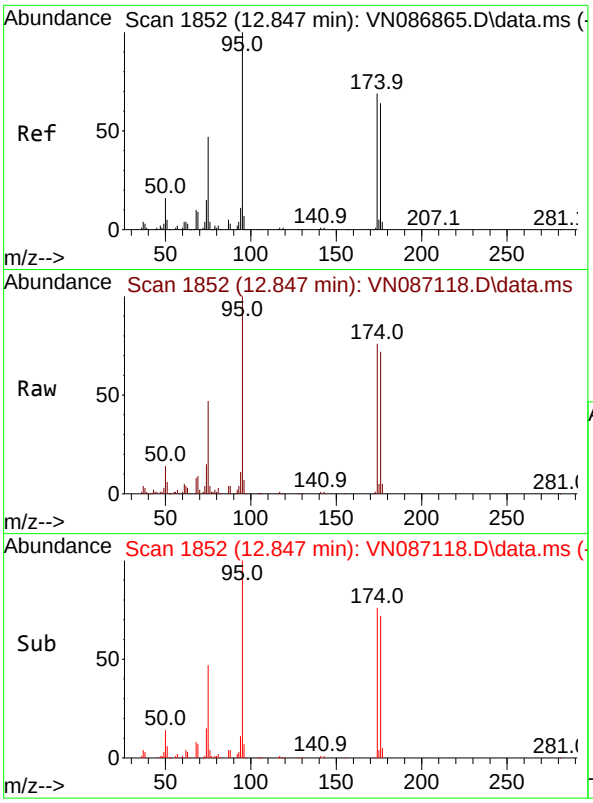


#61
1,2-Dibromoethane
Concen: 58.934 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:107 Resp: 132627

Ion	Ratio	Lower	Upper
107	100		
109	93.2	76.3	114.5

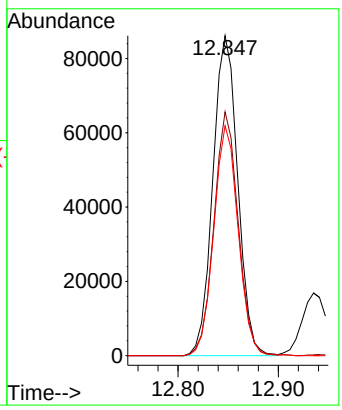




#62
4-Bromofluorobenzene
Concen: 52.573 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 95 Resp: 14816

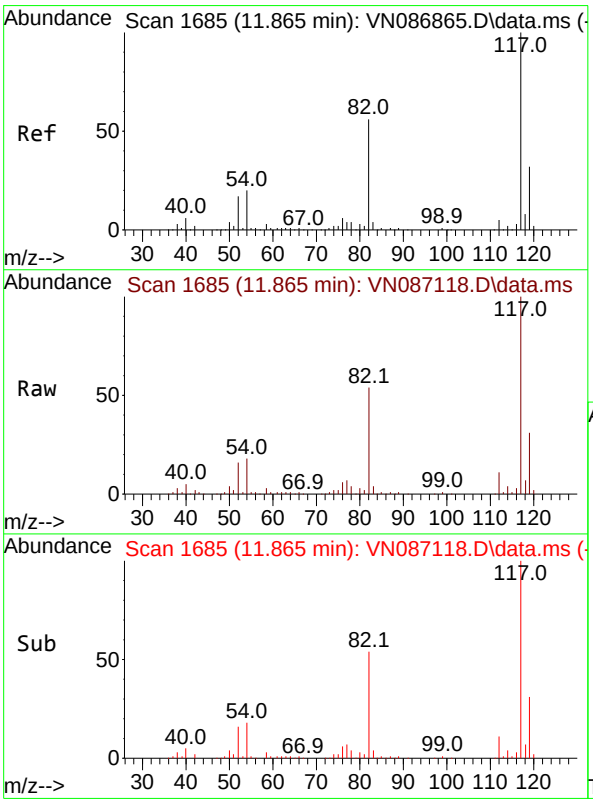
Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	141.8
176	70.6	0.0	132.6



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

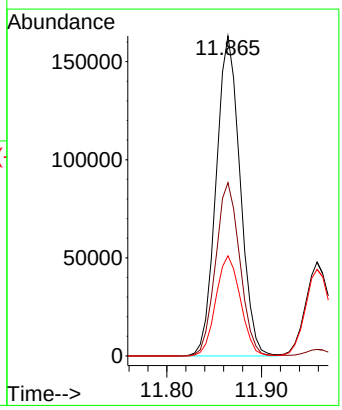
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

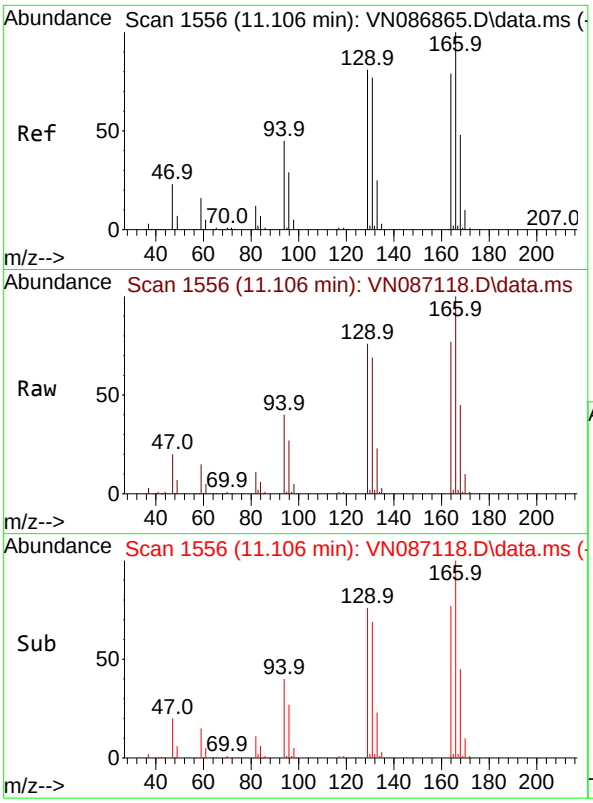


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:117 Resp: 287602

Ion	Ratio	Lower	Upper
117	100		
82	54.1	44.6	67.0
119	31.3	25.5	38.3

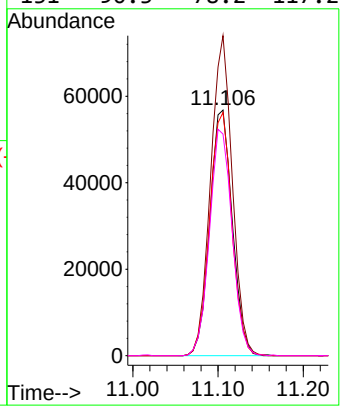




#64
Tetrachloroethene
Concen: 57.264 ug/l
RT: 11.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:164 Resp: 10422

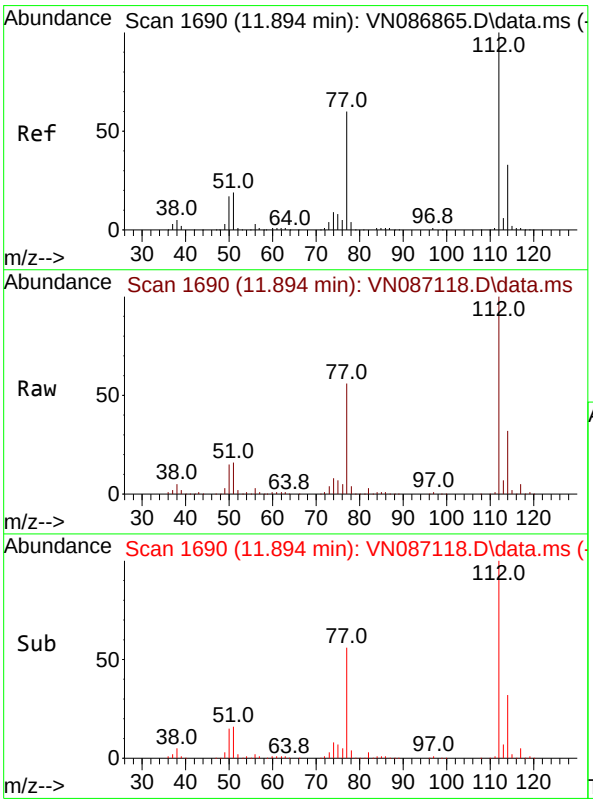
Ion	Ratio	Lower	Upper
164	100		
166	130.3	101.8	152.8
129	99.0	83.0	124.4
131	90.3	78.2	117.2



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

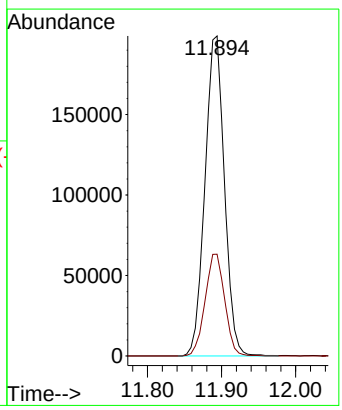
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

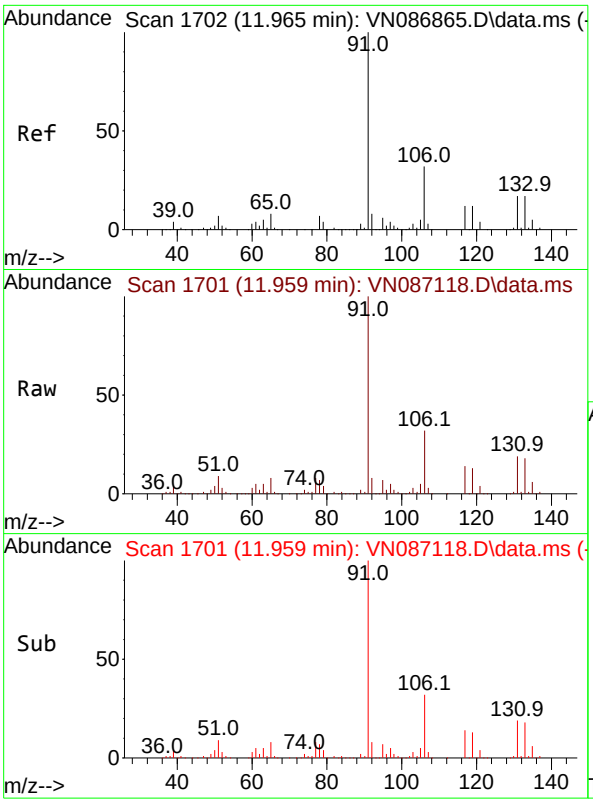


#65
Chlorobenzene
Concen: 57.149 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:112 Resp: 362505

Ion	Ratio	Lower	Upper
112	100		
114	31.8	26.2	39.2





#66
1,1,1,2-Tetrachloroethane
Concen: 57.889 ug/l
RT: 11.959 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

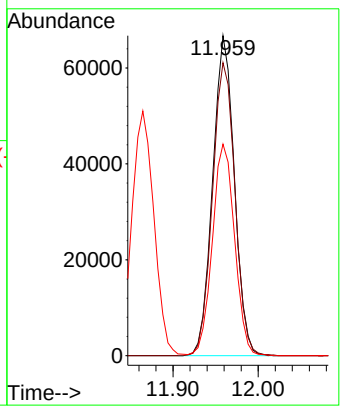
Tgt Ion:131 Resp: 11803

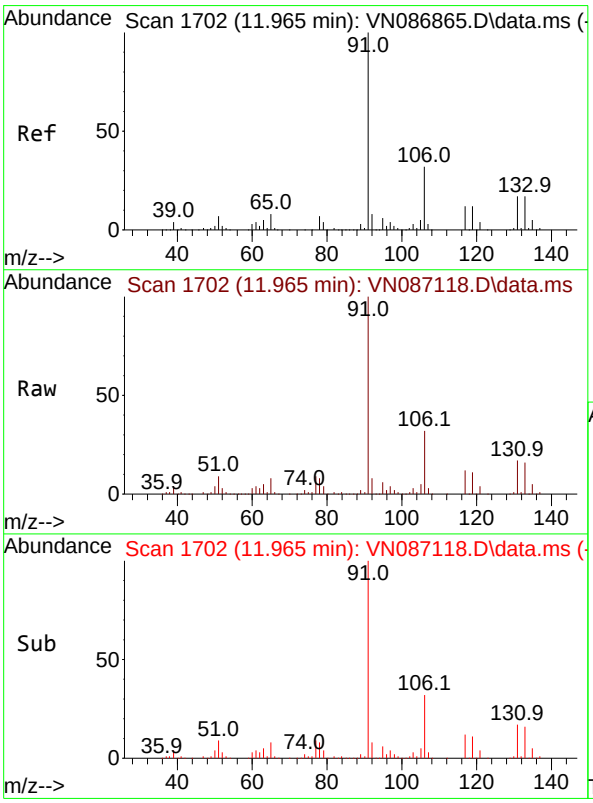
Ion	Ratio	Lower	Upper
131	100		
133	94.8	48.3	144.8
119	67.7	34.0	101.8

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

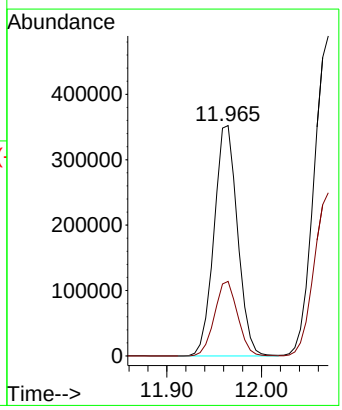


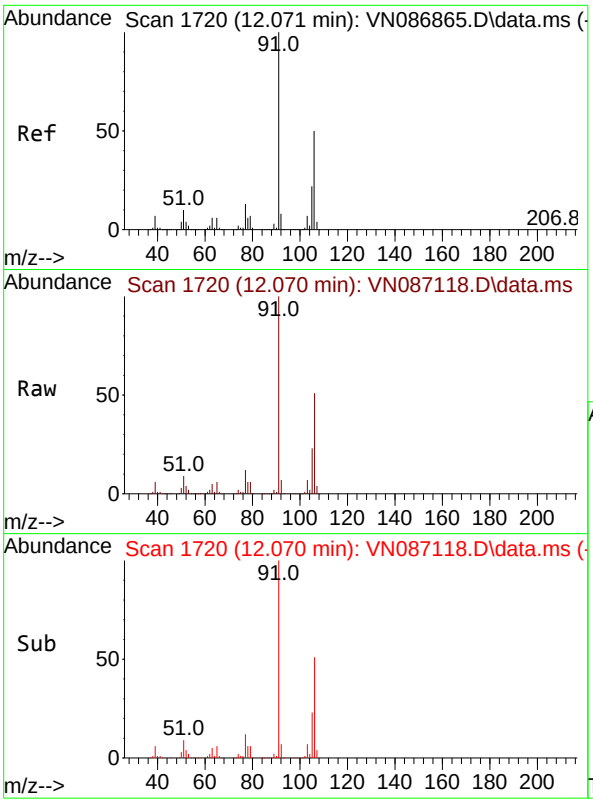


#67
Ethyl Benzene
Concen: 55.559 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 91 Resp: 607039

Ion	Ratio	Lower	Upper
91	100		
106	32.3	25.4	38.2

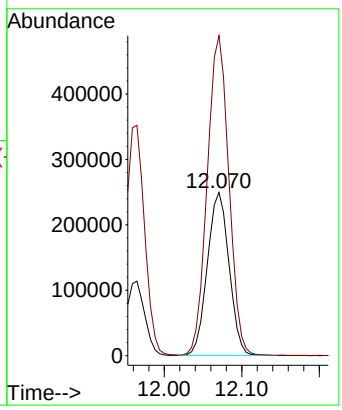




#68
m/p-Xylenes
Concen: 116.211 ug/l
RT: 12.070 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:106 Resp: 48604

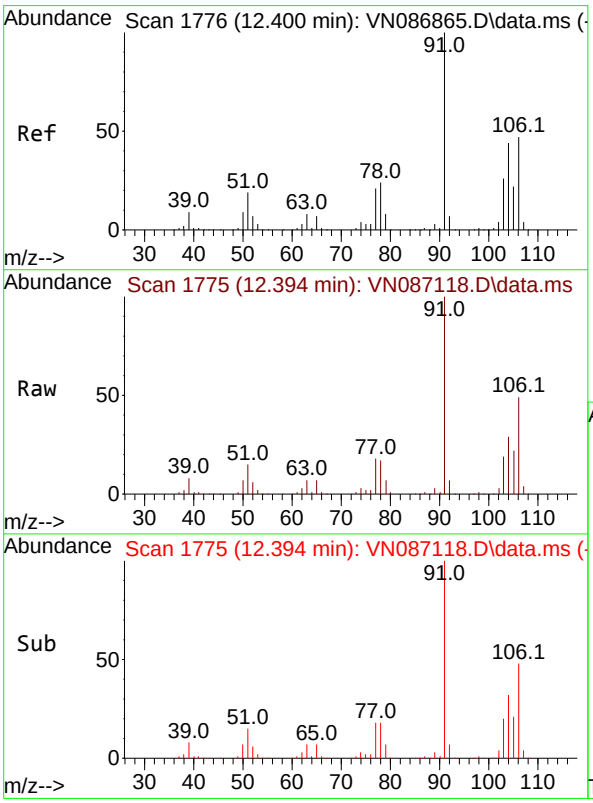
Ion	Ratio	Lower	Upper
106	100		
91	196.0	159.4	239.0



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

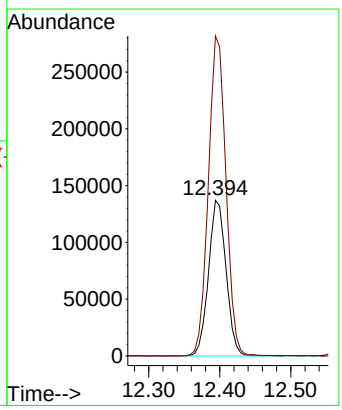
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

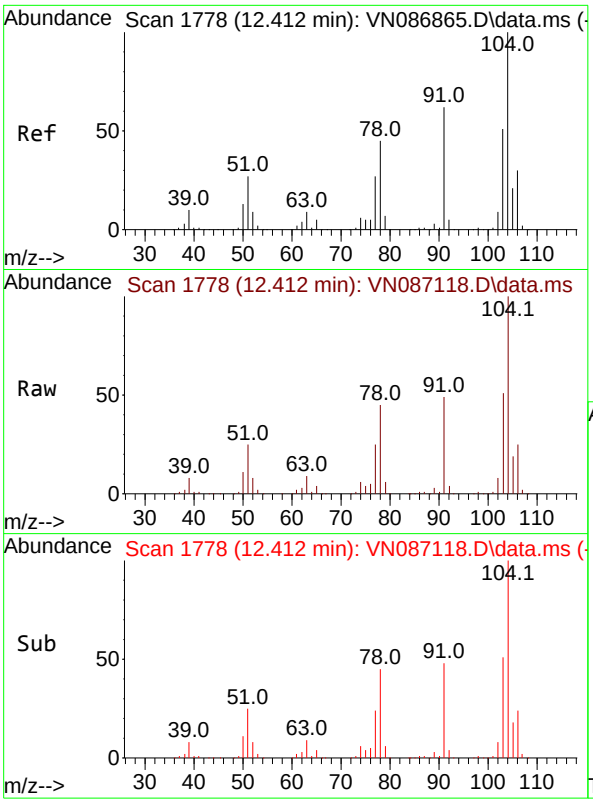


#69
o-Xylene
Concen: 58.675 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:106 Resp: 235034

Ion	Ratio	Lower	Upper
106	100		
91	206.1	106.1	318.1

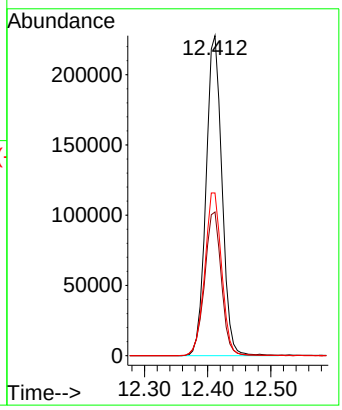




#70
Styrene
Concen: 58.190 ug/l
RT: 12.412 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:104 Resp: 39886

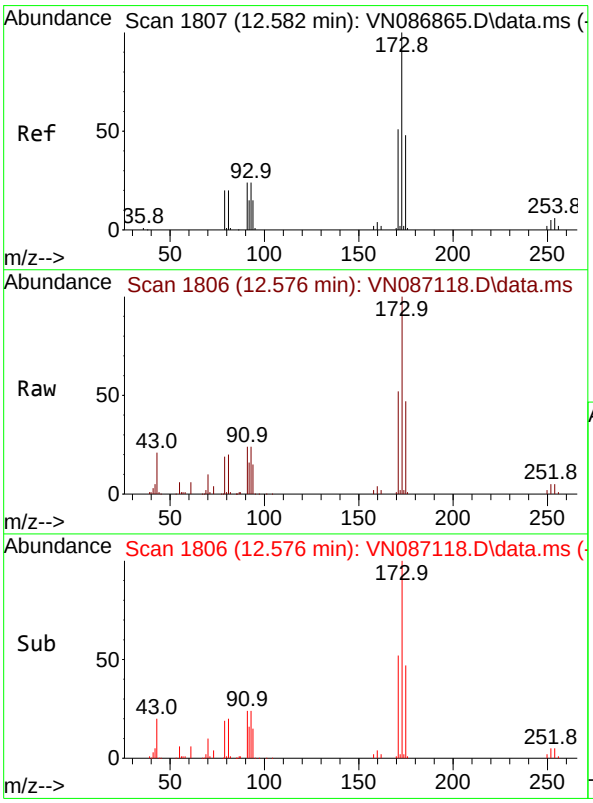
Ion	Ratio	Lower	Upper
104	100		
78	47.2	38.5	57.7
103	54.3	43.1	64.7



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

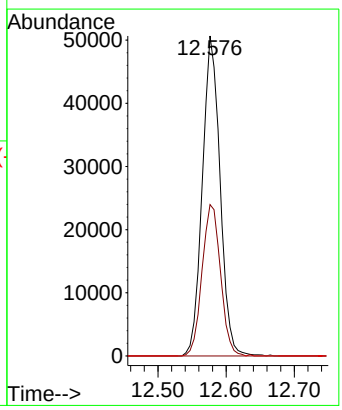
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

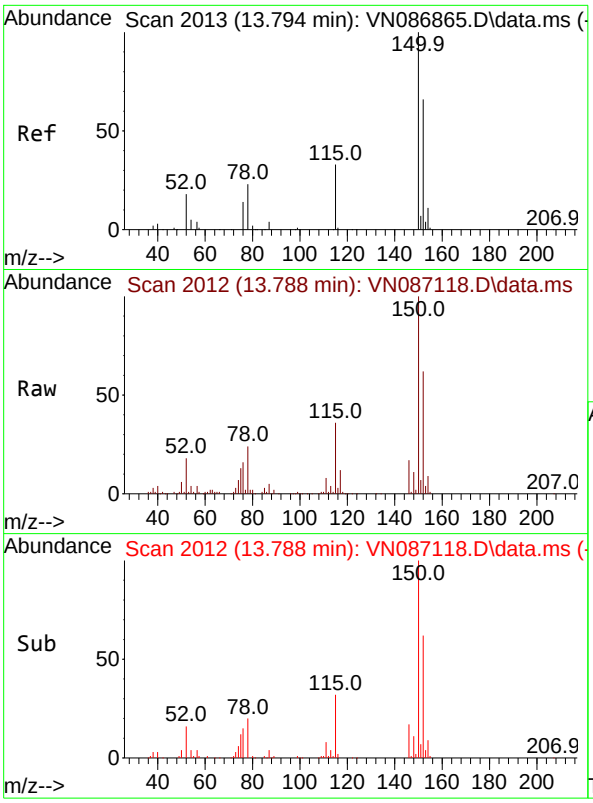


#71
Bromoform
Concen: 60.729 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:173 Resp: 91748

Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.1	72.4
254	0.0	0.0	0.0

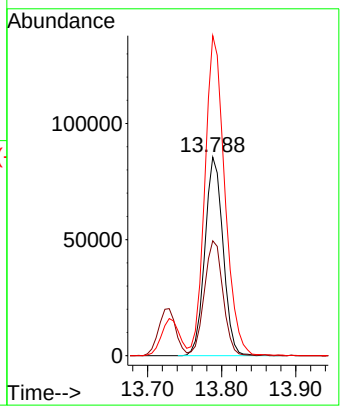




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:152 Resp: 14557

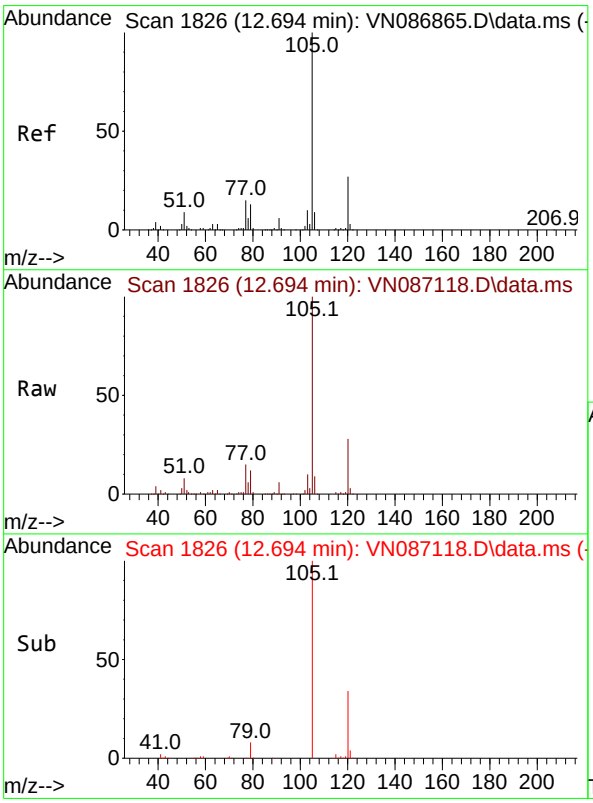
Ion	Ratio	Lower	Upper
152	100		
115	59.3	30.1	90.5
150	177.0	0.0	345.0



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

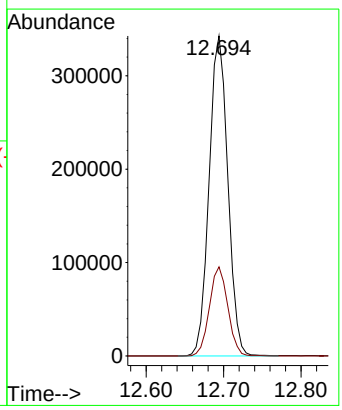
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

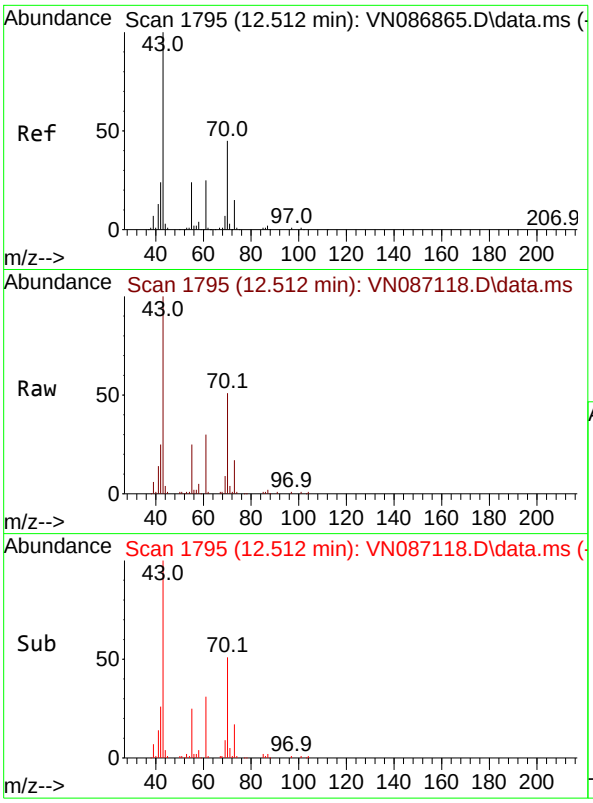


#73
Isopropylbenzene
Concen: 54.196 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:105 Resp: 574771

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.5	40.4

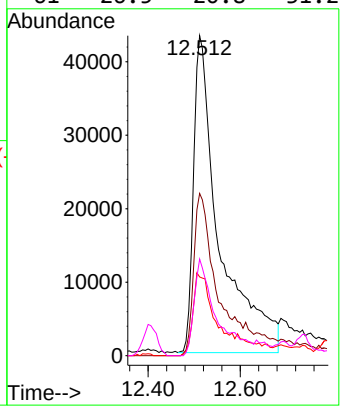




#74
N-amyl acetate
Concen: 45.621 ug/l
RT: 12.512 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 43 Resp: 16906

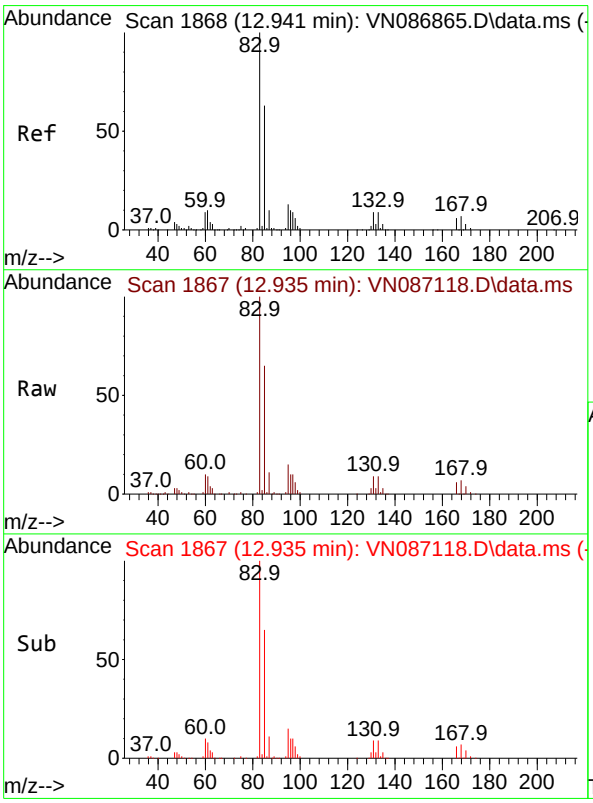
Ion	Ratio	Lower	Upper
43	100		
70	51.9	37.6	56.4
55	26.8	19.0	28.6
61	26.5	20.8	31.2



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

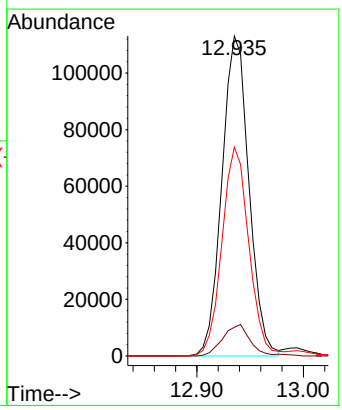
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

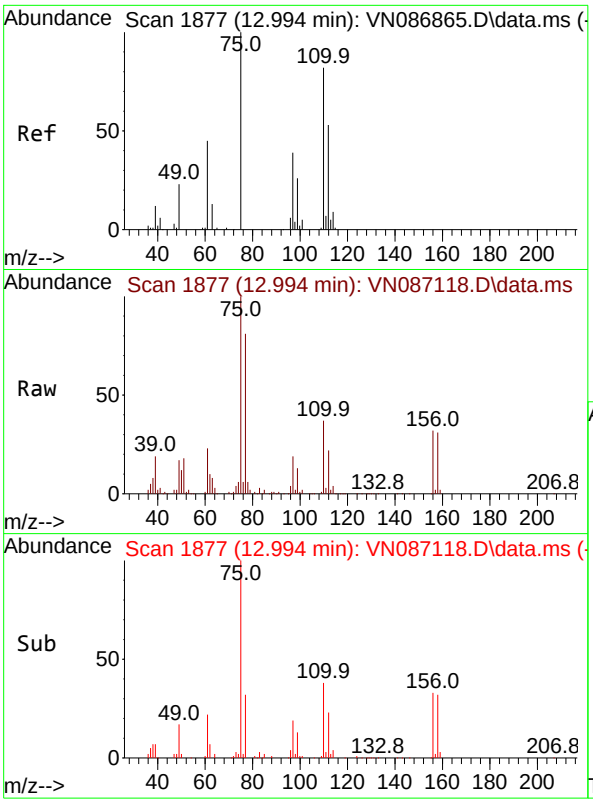


#75
1,1,2,2-Tetrachloroethane
Concen: 55.457 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 83 Resp: 199250

Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.9	14.7
85	64.9	32.0	96.0





#76
1,2,3-Trichloropropane
Concen: 47.272 ug/l m
RT: 12.994 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

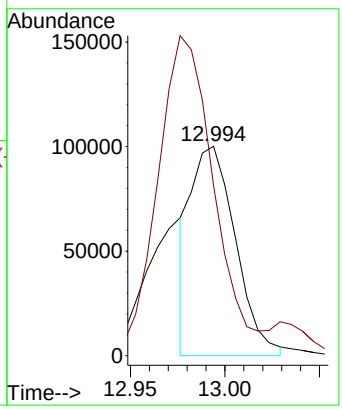
Tgt Ion: 75 Resp: 16358

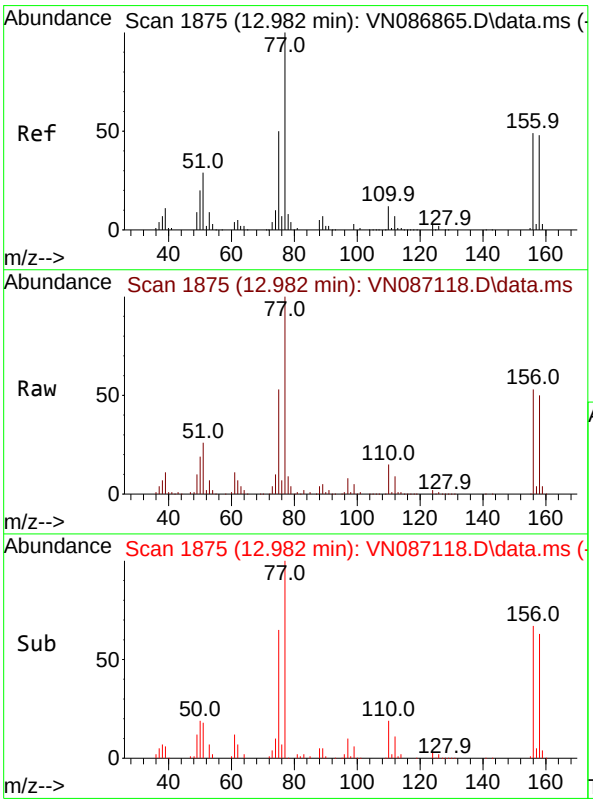
Ion	Ratio	Lower	Upper
75	100		
77	192.5	79.3	237.9

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

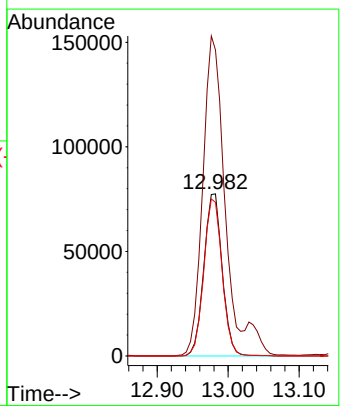


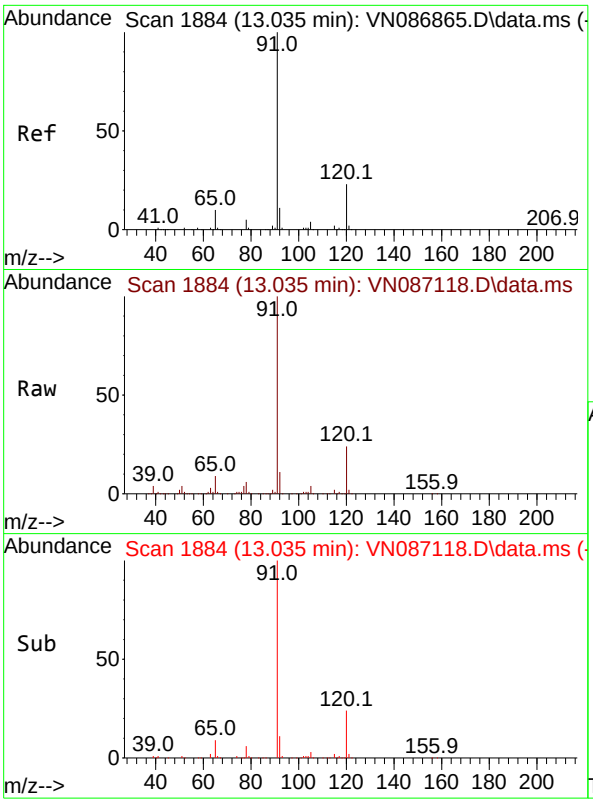


#77
Bromobenzene
Concen: 57.381 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:156 Resp: 139561

Ion	Ratio	Lower	Upper
156	100		
77	225.7	117.7	353.1
158	96.5	48.1	144.4





#78
n-propylbenzene
Concen: 52.413 ug/l
RT: 13.035 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

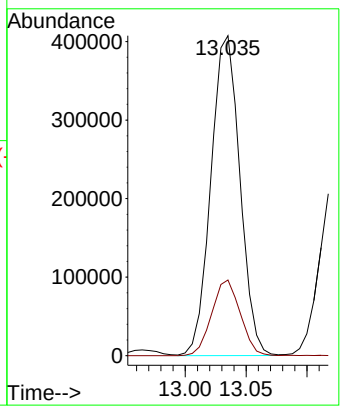
Tgt Ion: 91 Resp: 67551

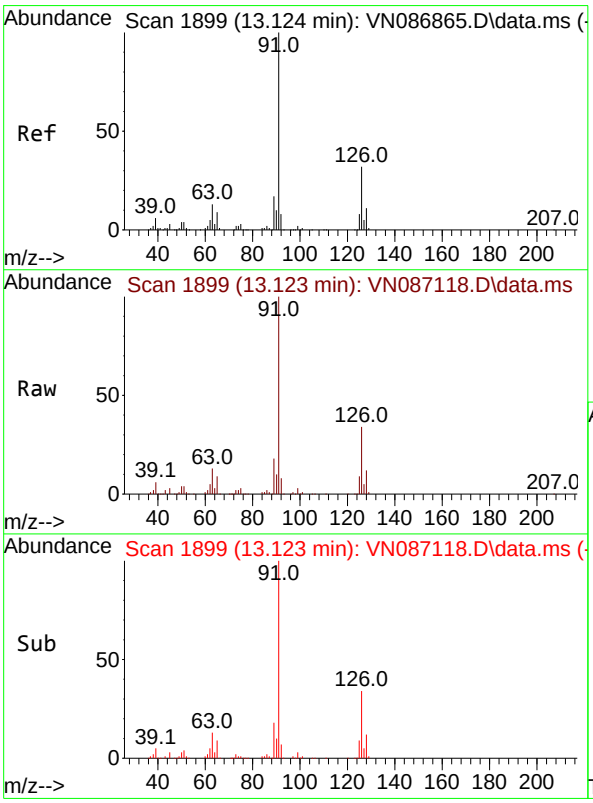
Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.4	34.2

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

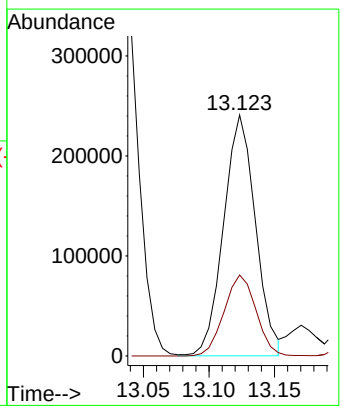


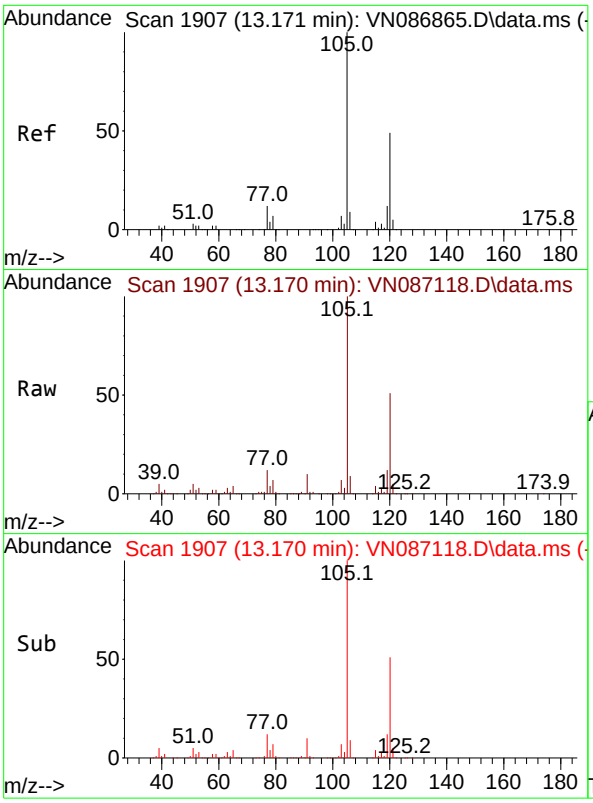


#79
2-Chlorotoluene
Concen: 52.721 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 91 Resp: 407496

Ion	Ratio	Lower	Upper
91	100		
126	33.7	16.2	48.5





#80
1,3,5-Trimethylbenzene
Concen: 54.335 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

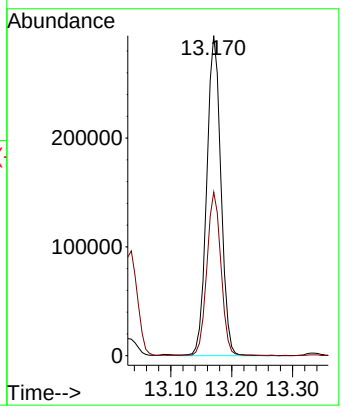
Tgt Ion:105 Resp: 47575

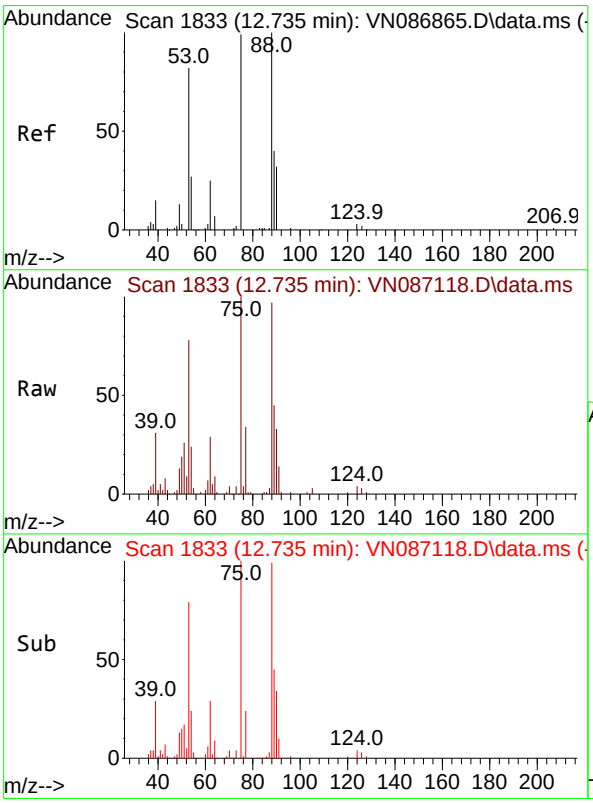
Ion	Ratio	Lower	Upper
105	100		
120	50.8	24.9	74.6

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

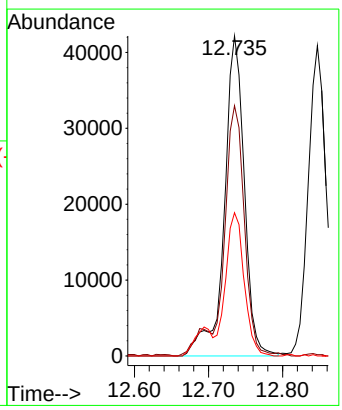


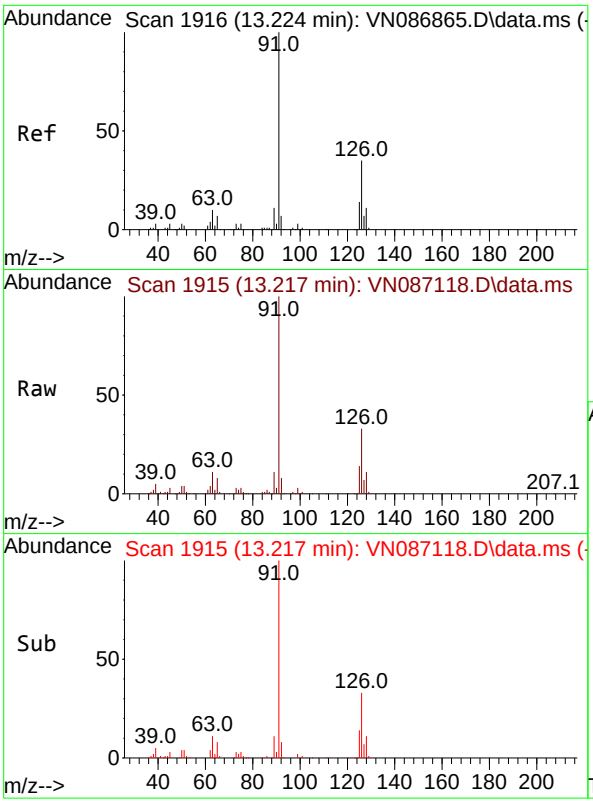


#81
trans-1,4-Dichloro-2-butene
Concen: 52.787 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 75 Resp: 79351

Ion	Ratio	Lower	Upper
75	100		
53	73.7	66.6	99.8
89	41.4	36.7	55.1

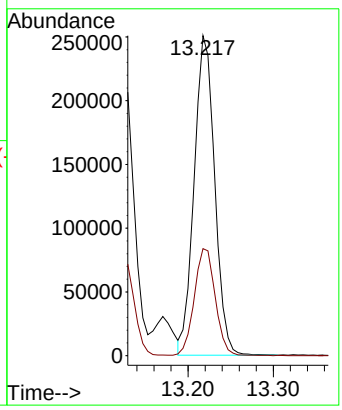




#82
4-Chlorotoluene
Concen: 53.678 ug/l
RT: 13.217 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 91 Resp: 41980

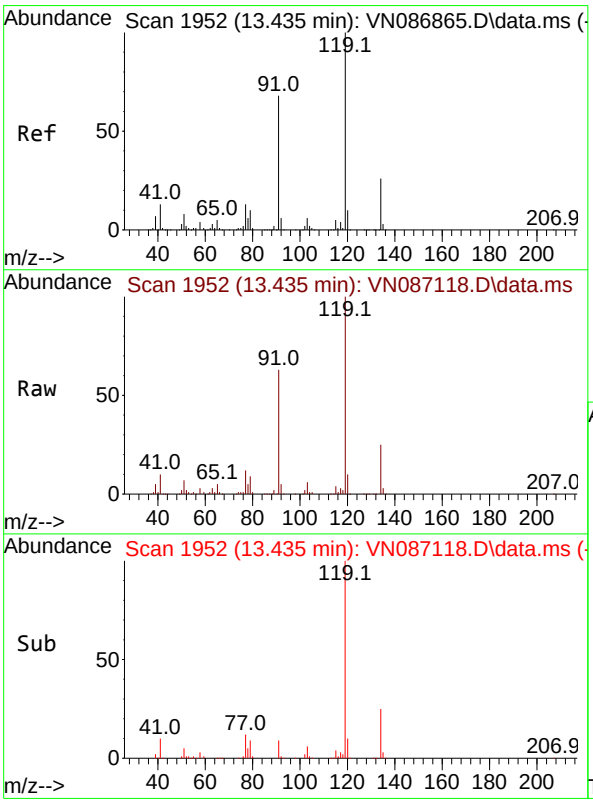
Ion	Ratio	Lower	Upper
91	100		
126	34.3	16.7	50.1



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

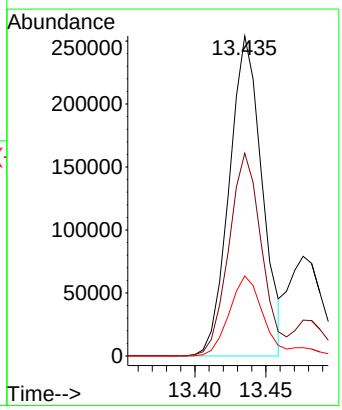
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

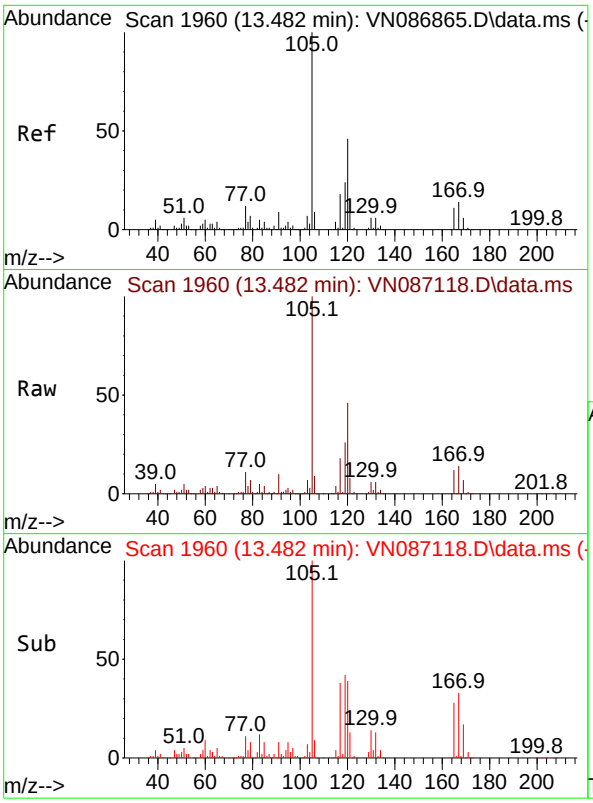


#83
tert-Butylbenzene
Concen: 50.876 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:119 Resp: 407771

Ion	Ratio	Lower	Upper
119	100		
91	63.9	32.1	96.5
134	27.4	13.4	40.1

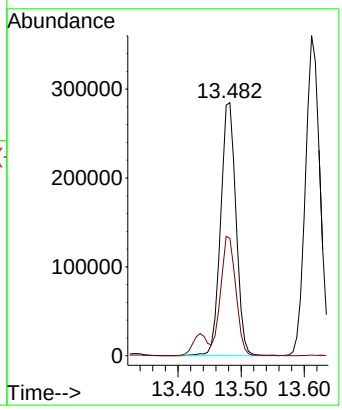




#84
1,2,4-Trimethylbenzene
Concen: 54.733 ug/l
RT: 13.482 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:105 Resp: 48056

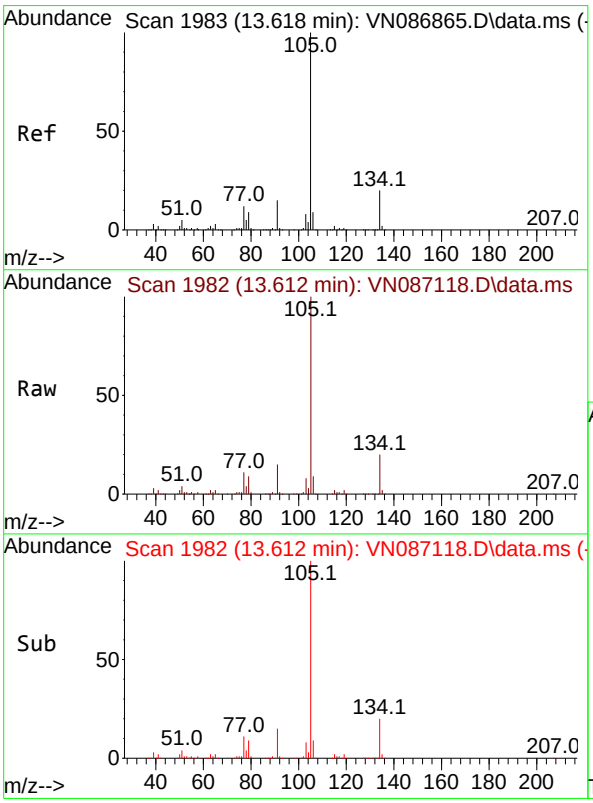
Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.2	69.6



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

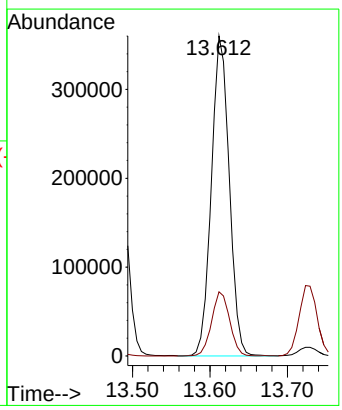
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

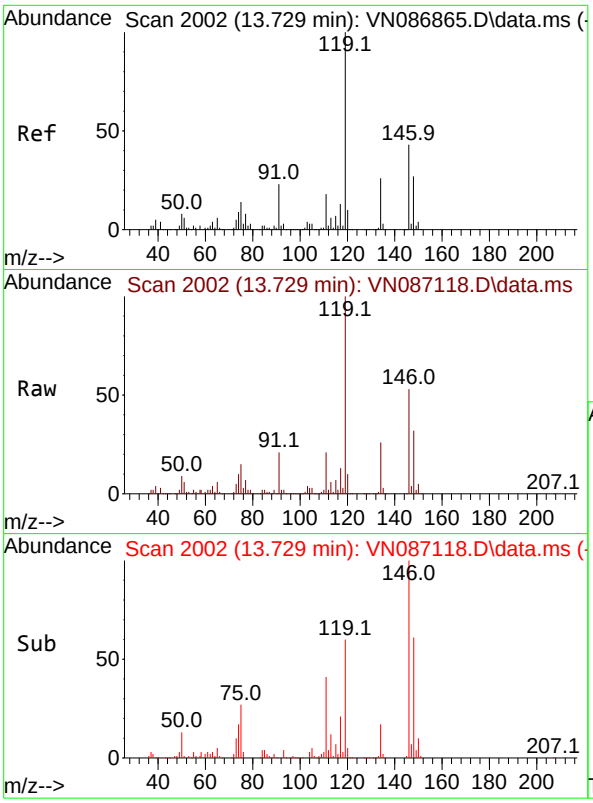


#85
sec-Butylbenzene
Concen: 49.567 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:105 Resp: 576942

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0





#86
p-Isopropyltoluene
Concen: 50.571 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

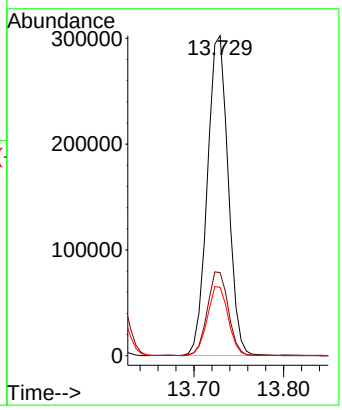
Tgt Ion:119 Resp: 48656

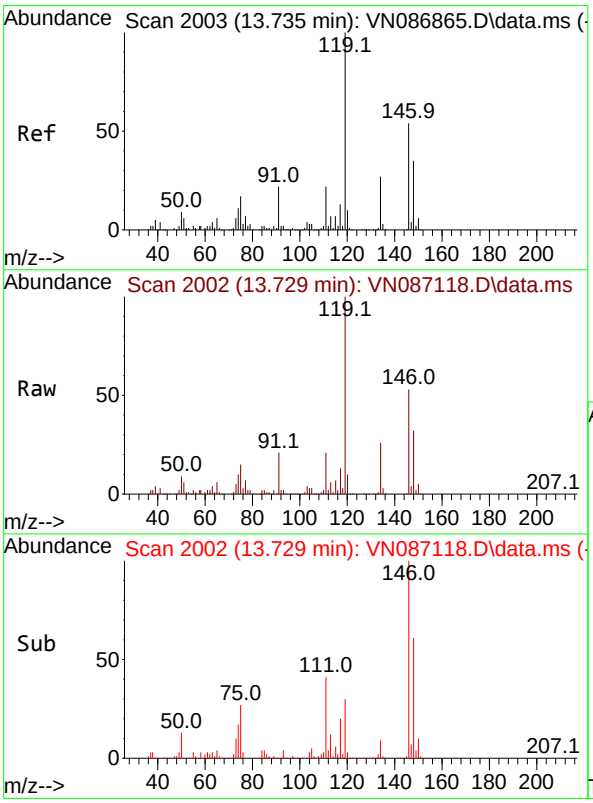
Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.5	40.4
91	21.7	11.5	34.4

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

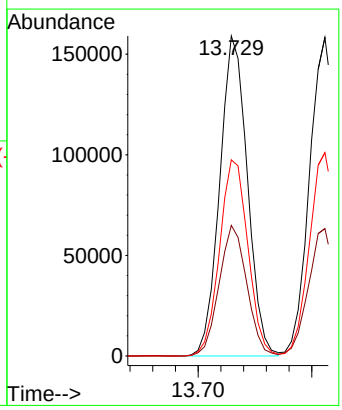


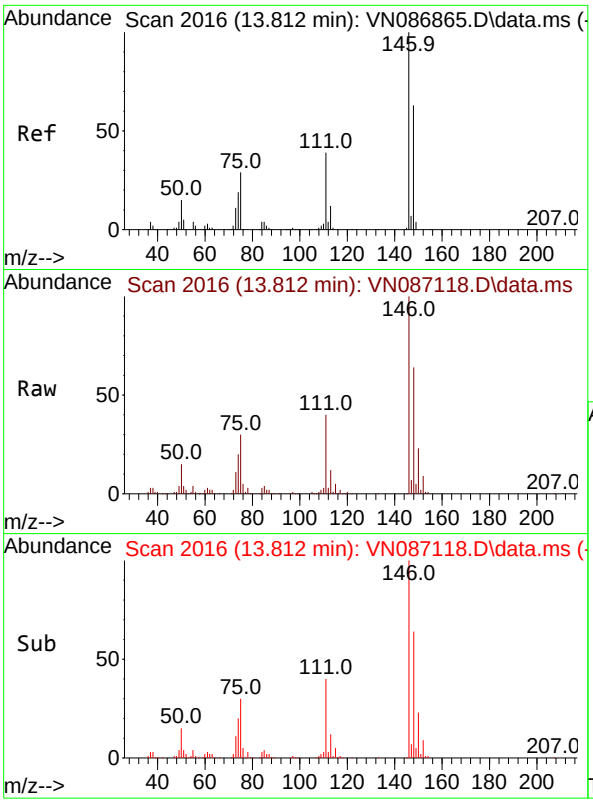


#87
1,3-Dichlorobenzene
Concen: 56.190 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:146 Resp: 268884

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.9	62.8
148	63.0	32.0	96.2

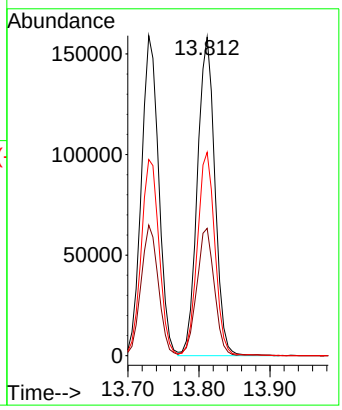




#88
1,4-Dichlorobenzene
Concen: 55.596 ug/l
RT: 13.812 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:146 Resp: 27123

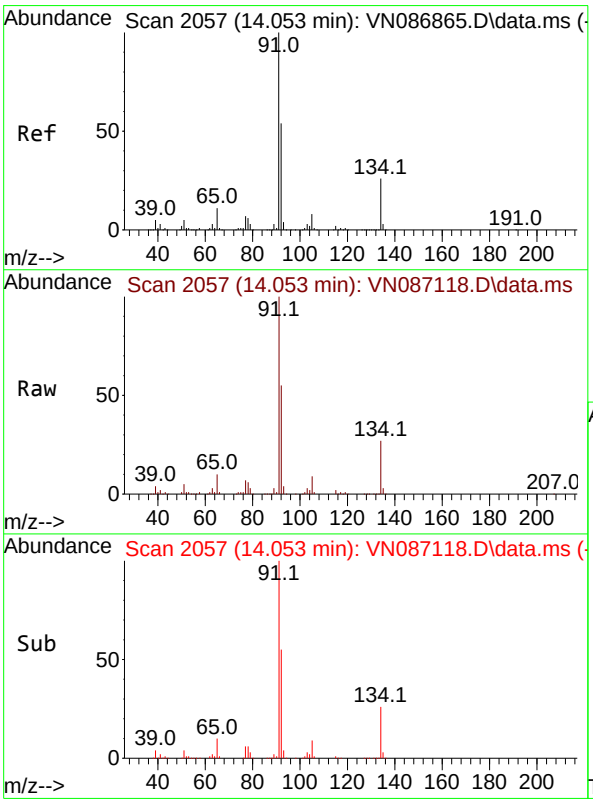
Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.9	59.7
148	64.0	31.8	95.4



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

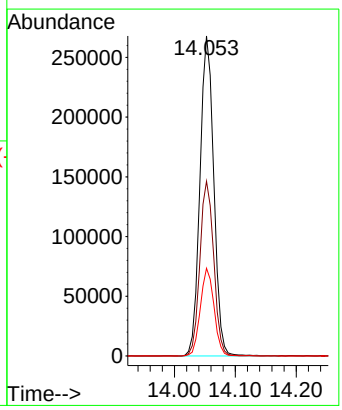
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

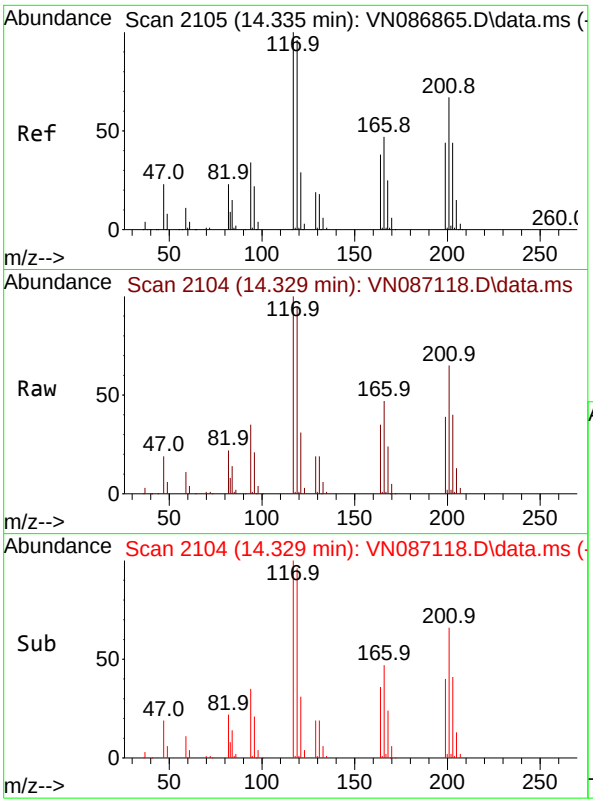


#89
n-Butylbenzene
Concen: 45.329 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 91 Resp: 422443

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.5	82.4
134	27.1	13.0	39.0

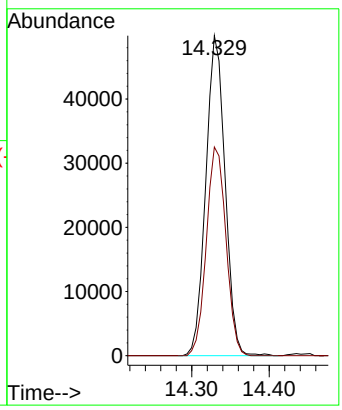




#90
Hexachloroethane
Concen: 52.807 ug/l
RT: 14.329 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:117 Resp: 8612

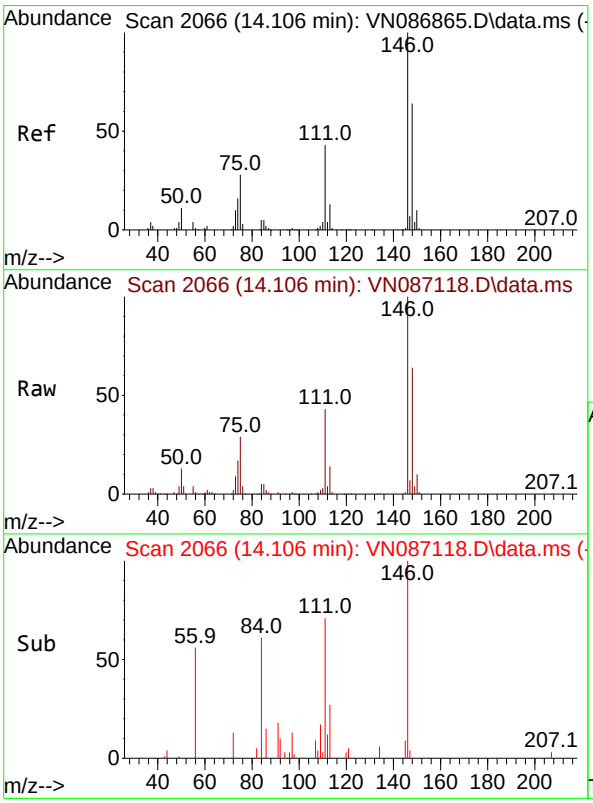
Ion	Ratio	Lower	Upper
117	100		
201	66.4	33.2	99.6



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

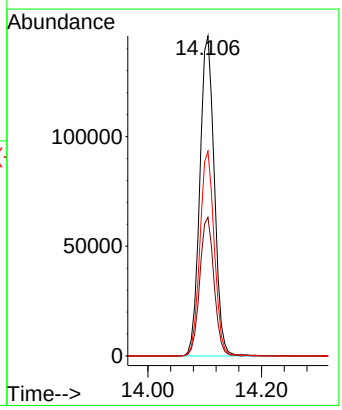
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

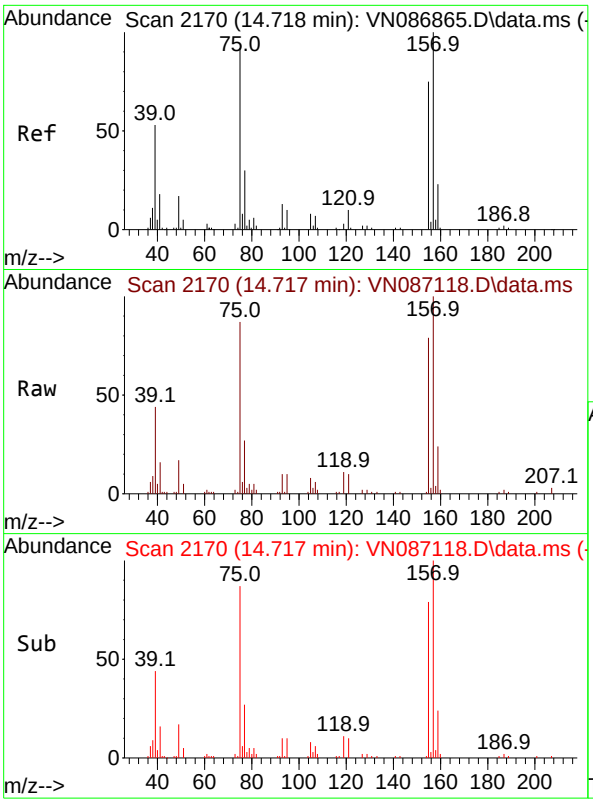


#91
1,2-Dichlorobenzene
Concen: 56.151 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:146 Resp: 258146

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.6	64.6
148	63.4	31.7	95.1

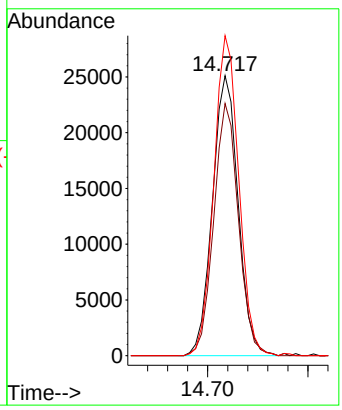




#92
1,2-Dibromo-3-Chloropropane
Concen: 52.011 ug/l
RT: 14.717 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

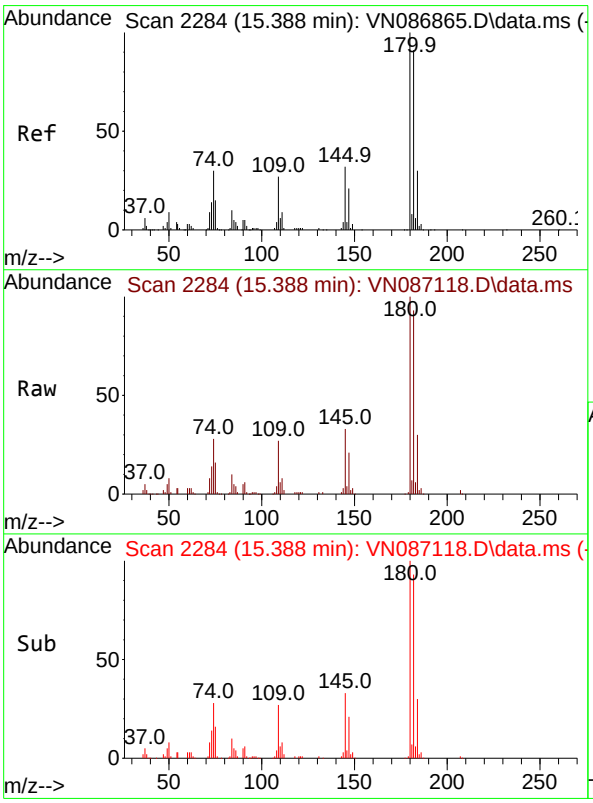
Tgt Ion: 75 Resp: 4469

Ion	Ratio	Lower	Upper
75	100		
155	86.6	41.1	123.4
157	110.7	52.7	158.1



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

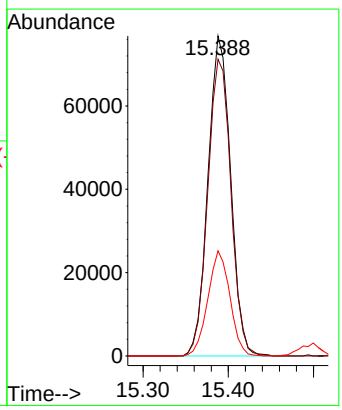
Manual Integrations
APPROVED
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

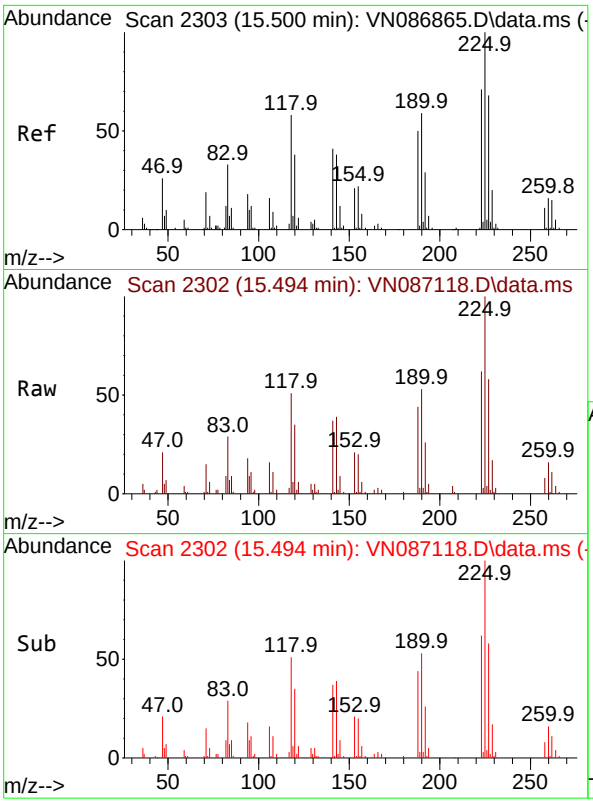


#93
1,2,4-Trichlorobenzene
Concen: 48.271 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:180 Resp: 141709

Ion	Ratio	Lower	Upper
180	100		
182	94.8	46.9	140.7
145	32.1	16.0	47.9

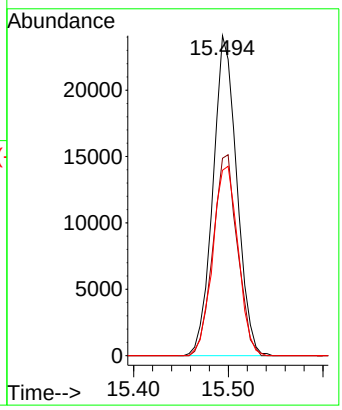




#94
Hexachlorobutadiene
Concen: 38.570 ug/l
RT: 15.494 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:225 Resp: 4218

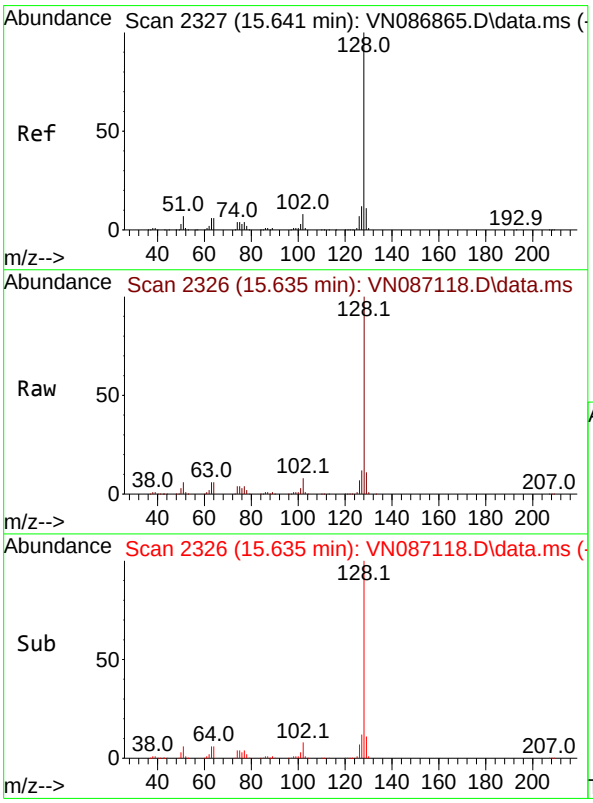
Ion	Ratio	Lower	Upper
225	100		
223	64.4	33.5	100.4
227	62.9	31.1	93.5



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

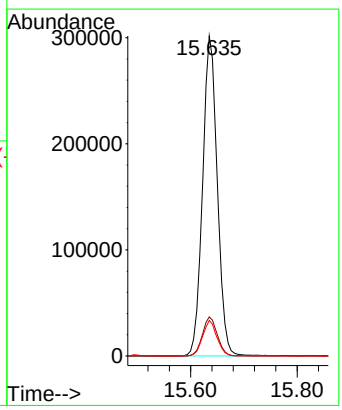
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

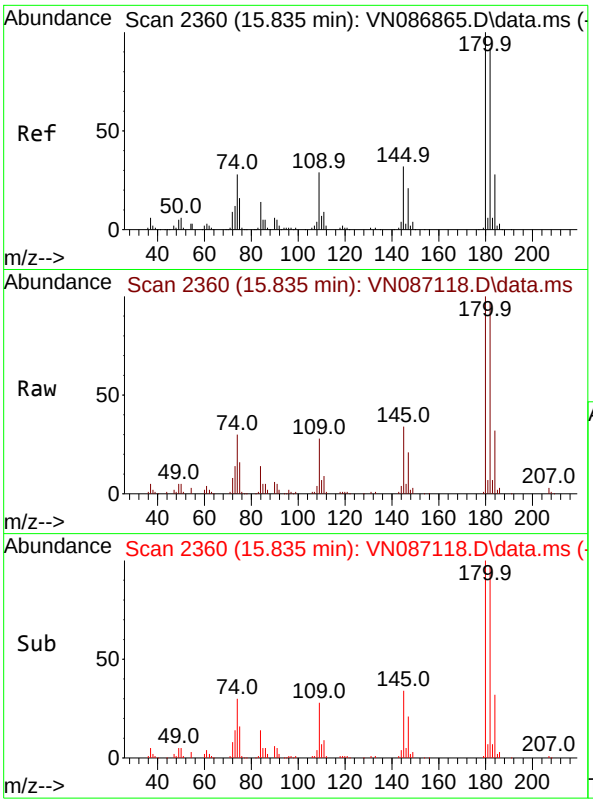


#95
Naphthalene
Concen: 52.869 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:128 Resp: 577711

Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.2	15.2
129	10.8	8.8	13.2

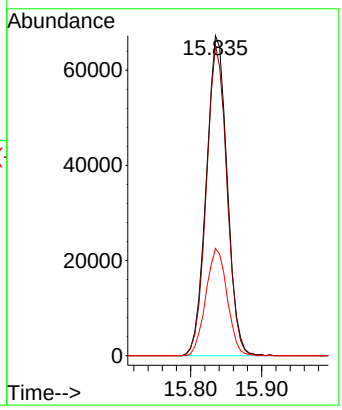




#96
1,2,3-Trichlorobenzene
Concen: 47.084 ug/l
RT: 15.835 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:180 Resp: 13733

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.0	141.0
145	34.2	16.6	49.8



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613MSD	SDG No.:	Q2329
Lab Sample ID:	Q2329-12MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087119.D	1		06/19/25 17:52	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	51.5		0.22	0.50	1.00	ug/L
74-87-3	Chloromethane	45.1		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	56.1		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	54.1		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	55.5		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	54.7		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	53.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	55.3		0.23	0.75	1.00	ug/L
67-64-1	Acetone	230		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	56.6		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	52.3		0.16	0.50	1.00	ug/L
79-20-9	Methyl Acetate	41.3		0.27	0.75	1.00	ug/L
75-09-2	Methylene Chloride	53.0		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	53.3		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	53.8		0.23	0.50	1.00	ug/L
110-82-7	Cyclohexane	47.3		1.50	2.50	5.00	ug/L
78-93-3	2-Butanone	230		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	53.5		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	53.9		0.19	0.75	1.00	ug/L
74-97-5	Bromochloromethane	44.5		0.22	0.50	1.00	ug/L
67-66-3	Chloroform	52.7		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	53.0		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	44.6		0.16	0.50	1.00	ug/L
71-43-2	Benzene	53.1		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	51.7		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	93.2		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	52.5		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	53.0		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	250		0.68	2.50	5.00	ug/L
108-88-3	Toluene	53.7		0.14	0.50	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:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613MSD	SDG No.:	Q2329
Lab Sample ID:	Q2329-12MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087119.D	1		06/19/25 17:52	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	52.6		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	52.4		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	52.7		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	250		0.89	2.50	5.00	ug/L
124-48-1	Dibromochloromethane	56.0		0.18	0.50	1.00	ug/L
106-93-4	1,2-Dibromoethane	53.8		0.15	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	54.1		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	54.1		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	52.9		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	55.9		0.12	0.50	1.00	ug/L
100-42-5	Styrene	55.5		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	57.8		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	51.7		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	52.5		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	52.9		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	53.2		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	52.7		0.16	0.50	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	49.0		0.53	0.75	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	47.0		0.20	0.50	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	45.6		0.20	0.75	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	44.7		81 - 118		89%	SPK: 50
1868-53-7	Dibromofluoromethane	49.1		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	45.9		89 - 112		92%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.6		85 - 114		93%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	177000	8.23				
540-36-3	1,4-Difluorobenzene	324000	9.106				
3114-55-4	Chlorobenzene-d5	282000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	142000	13.788				

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613MSD	SDG No.:	Q2329
Lab Sample ID:	Q2329-12MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087119.D	1		06/19/25 17:52	VN061925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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_N\Data\VN061925\
Data File : VN087119.D
Acq On : 19 Jun 2025 17:52
Operator : JC\MD
Sample : Q2329-12MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 20 01:30:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	177485	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	324249	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	281966	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142178	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	106321	44.742	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 89.480%			
35) Dibromofluoromethane	8.171	113	94304	49.076	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.160%			
50) Toluene-d8	10.565	98	349005	45.879	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 91.760%			
62) 4-Bromofluorobenzene	12.847	95	131657	46.584	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 93.160%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	91097	51.478	ug/l	99
3) Chloromethane	2.395	50	103151	45.140	ug/l	99
4) Vinyl Chloride	2.554	62	132183	56.075	ug/l	99
5) Bromomethane	2.989	94	71309	54.057	ug/l	92
6) Chloroethane	3.154	64	84512	55.503	ug/l	93
7) Trichlorofluoromethane	3.530	101	168464	54.699	ug/l	100
8) Diethyl Ether	3.983	74	74805	55.746	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.395	101	103505	53.492	ug/l	99
10) Methyl Iodide	4.612	142	92527	36.888	ug/l	98
11) Tert butyl alcohol	5.536	59	156895	243.326	ug/l	98
12) 1,1-Dichloroethene	4.371	96	109245	55.301	ug/l	93
13) Acrolein	4.200	56	42318	207.340	ug/l	100
14) Allyl chloride	5.048	41	153558	46.871	ug/l	95
15) Acrylonitrile	5.736	53	381061	252.842	ug/l	99
16) Acetone	4.448	43	286922	227.682	ug/l	100
17) Carbon Disulfide	4.736	76	309512	56.642	ug/l	99
18) Methyl Acetate	5.048	43	151644	41.293	ug/l	96
19) Methyl tert-butyl Ether	5.812	73	374361	52.338	ug/l	98
20) Methylene Chloride	5.295	84	125128	53.036	ug/l	93
21) trans-1,2-Dichloroethene	5.812	96	117148	53.301	ug/l	92
22) Diisopropyl ether	6.683	45	340365	49.286	ug/l	96
23) Vinyl Acetate	6.618	43	1432710	245.547	ug/l	97
24) 1,1-Dichloroethane	6.583	63	213618	53.751	ug/l	100
25) 2-Butanone	7.489	43	478559	233.627	ug/l	96
26) 2,2-Dichloropropane	7.500	77	158168	51.163	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	141666	53.896	ug/l	96
28) Bromochloromethane	7.824	49	86952	44.499	ug/l	92
29) Tetrahydrofuran	7.847	42	311959	233.785	ug/l	94
30) Chloroform	7.977	83	208999	52.659	ug/l	96
31) Cyclohexane	8.265	56	182112	47.251	ug/l	94
32) 1,1,1-Trichloroethane	8.177	97	178740	52.950	ug/l	97
36) 1,1-Dichloropropene	8.377	75	153809	53.717	ug/l	98
37) Ethyl Acetate	7.565	43	173325	47.551	ug/l	99
38) Carbon Tetrachloride	8.371	117	150377	53.493	ug/l	98
39) Methylcyclohexane	9.606	83	174796	44.558	ug/l	97
40) Benzene	8.612	78	497556	53.139	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087119.D
Acq On : 19 Jun 2025 17:52
Operator : JC\MD
Sample : Q2329-12MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 20 01:30:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations APPROVED
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.789	41	93397	45.624	ug/l		90
42) 1,2-Dichloroethane	8.677	62	146825	51.700	ug/l		100
43) Isopropyl Acetate	8.694	43	269980	46.148	ug/l		95
44) Trichloroethene	9.359	130	206823	93.156	ug/l		97
45) 1,2-Dichloropropane	9.624	63	119679	52.538	ug/l		98
46) Dibromomethane	9.712	93	82681	54.645	ug/l		99
47) Bromodichloromethane	9.888	83	165037	53.015	ug/l		99
48) Methyl methacrylate	9.682	41	126622	47.024	ug/l		95
49) 1,4-Dioxane	9.700	88	51559	1052.526	ug/l	#	95
51) 4-Methyl-2-Pentanone	10.447	43	869262	246.814	ug/l		98
52) Toluene	10.629	92	307149	53.678	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	182930	52.551	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	195053	52.369	ug/l		94
55) 1,1,2-Trichloroethane	11.018	97	115996	52.683	ug/l		99
56) Ethyl methacrylate	10.882	69	194990	55.602	ug/l		94
57) 1,3-Dichloropropane	11.165	76	202641	53.055	ug/l		100
59) 2-Hexanone	11.200	43	576643	254.185	ug/l		93
60) Dibromochloromethane	11.359	129	128464	56.000	ug/l		99
61) 1,2-Dibromoethane	11.471	107	121399	53.793	ug/l		99
64) Tetrachloroethene	11.106	164	96507	54.082	ug/l		96
65) Chlorobenzene	11.888	112	336372	54.089	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	110949	55.501	ug/l		99
67) Ethyl Benzene	11.965	91	567034	52.935	ug/l		99
68) m/p-Xylenes	12.071	106	451077	110.005	ug/l		97
69) o-Xylene	12.394	106	219362	55.857	ug/l		95
70) Styrene	12.412	104	373229	55.538	ug/l		98
71) Bromoform	12.576	173	85568	57.770	ug/l	#	100
73) Isopropylbenzene	12.694	105	535971	51.746	ug/l		100
74) N-amyl acetate	12.512	43	154996	42.823	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	184105	52.467	ug/l		98
76) 1,2,3-Trichloropropane	12.988	75	172985m	51.185	ug/l		
77) Bromobenzene	12.976	156	130562	54.964	ug/l		94
78) n-propylbenzene	13.035	91	625891	49.723	ug/l		99
79) 2-Chlorotoluene	13.123	91	380272	50.375	ug/l		97
80) 1,3,5-Trimethylbenzene	13.171	105	437368	51.145	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	73016	49.733	ug/l		90
82) 4-Chlorotoluene	13.218	91	391800	51.295	ug/l		98
83) tert-Butylbenzene	13.435	119	378819	48.393	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	445991	52.009	ug/l		100
85) sec-Butylbenzene	13.612	105	538763	47.394	ug/l		100
86) p-Isopropyltoluene	13.723	119	449281	47.811	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	247185	52.890	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	253319	53.165	ug/l		99
89) n-Butylbenzene	14.053	91	389128	42.752	ug/l		99
90) Hexachloroethane	14.329	117	80747	50.694	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	236809	52.741	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	41104	48.981	ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	134773	47.005	ug/l		100
94) Hexachlorobutadiene	15.500	225	39567	37.040	ug/l		99
95) Naphthalene	15.635	128	535992	50.223	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	129799	45.564	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087119.D
Acq On : 19 Jun 2025 17:52
Operator : JC\MD
Sample : Q2329-12MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 20 01:30:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

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

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

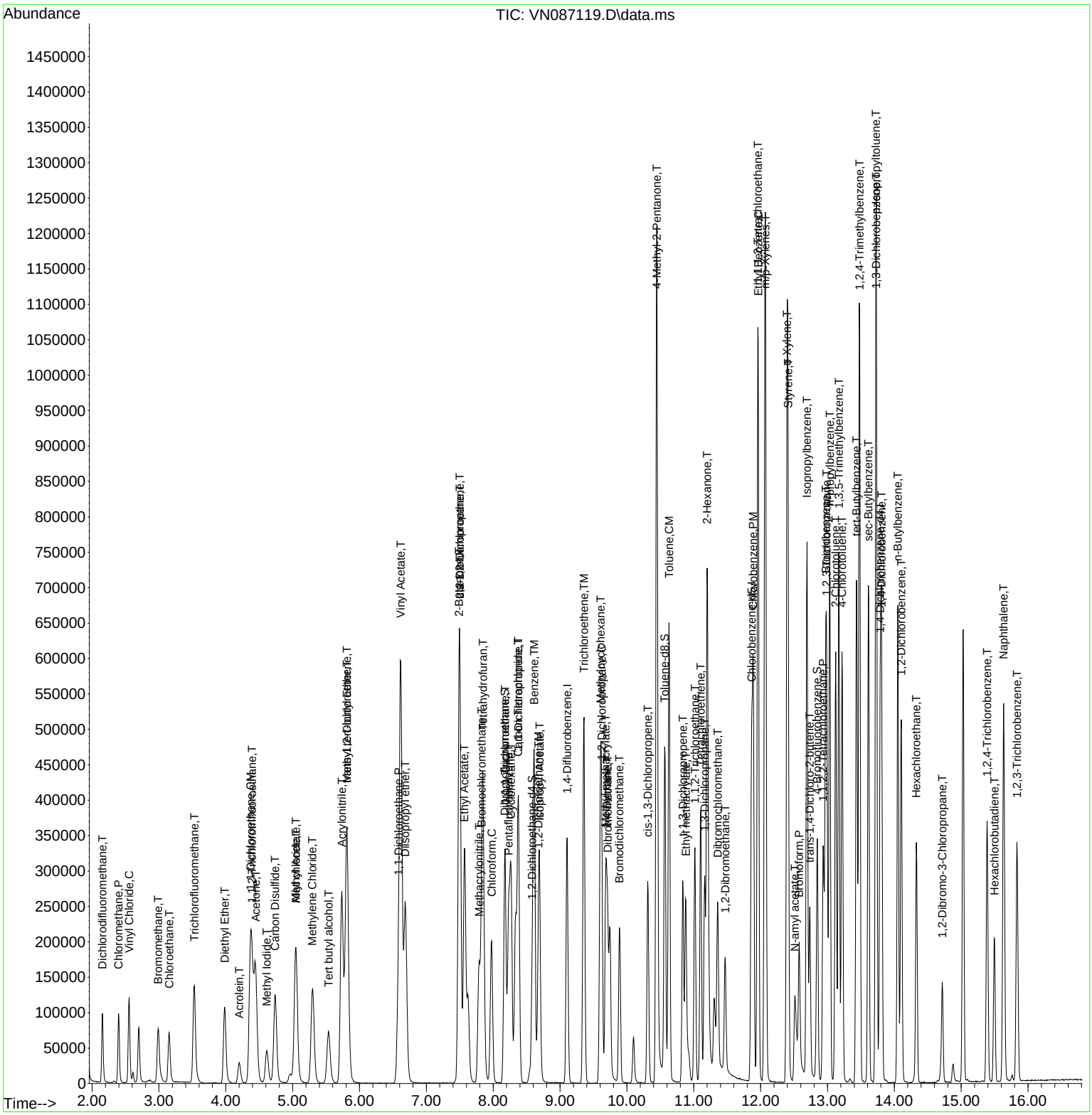
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087119.D
Acq On : 19 Jun 2025 17:52
Operator : JC\MD
Sample : Q2329-12MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

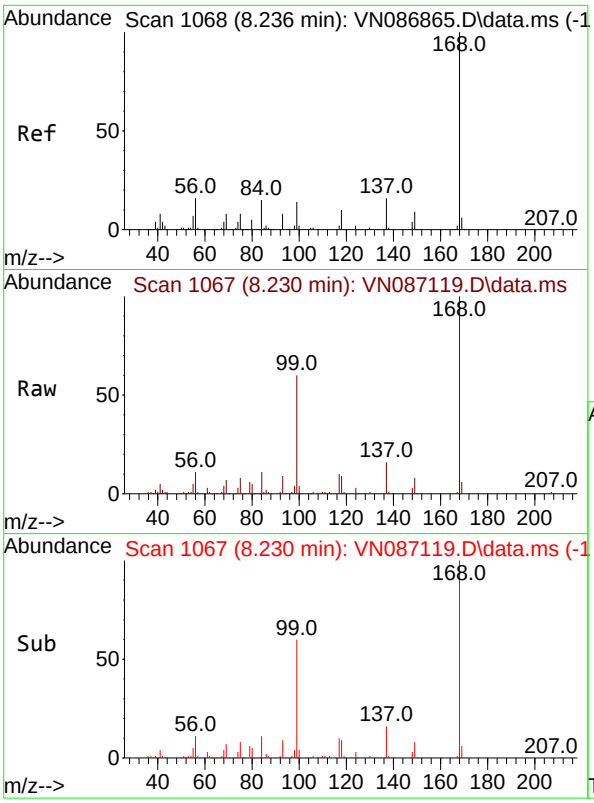
Quant Time: Jun 20 01:30:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

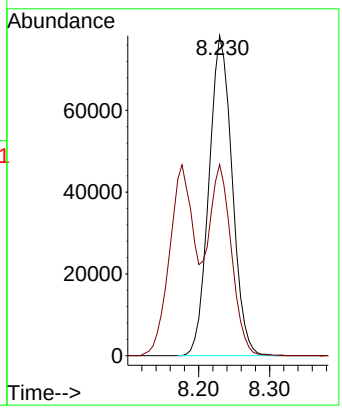




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:168 Resp: 17748

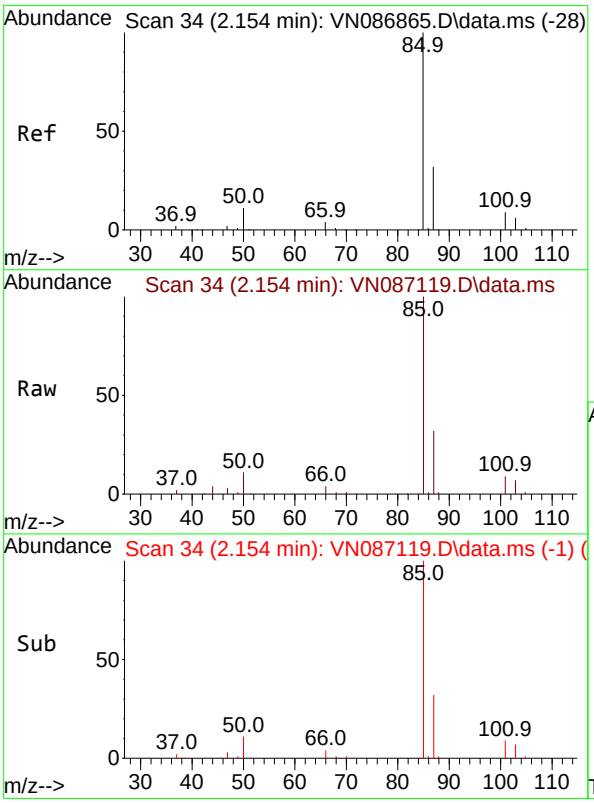
Ion	Ratio	Lower	Upper
168	100		
99	59.6	49.1	73.7



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

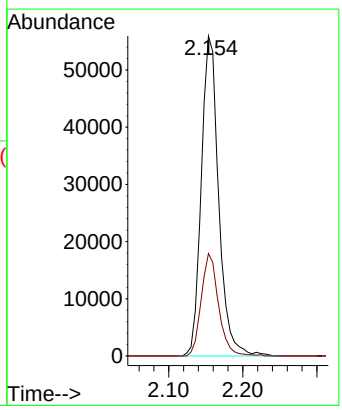
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

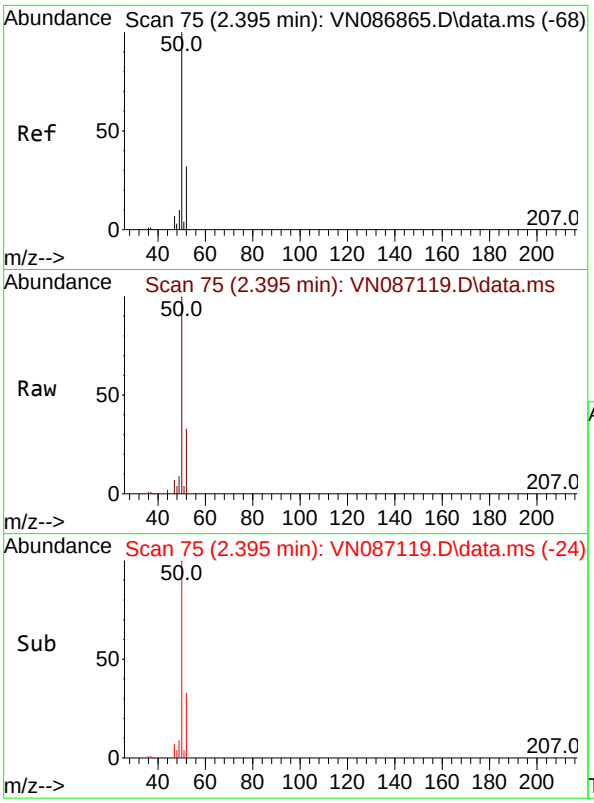


#2
Dichlorodifluoromethane
Concen: 51.478 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 85 Resp: 91097

Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.2	48.6

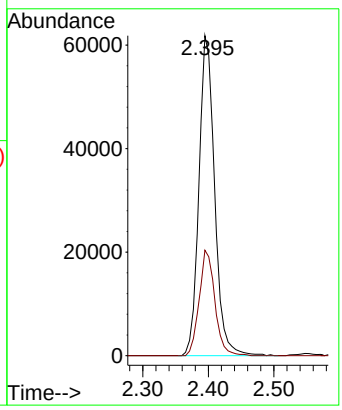




#3
Chloromethane
Concen: 45.140 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 50 Resp: 10315

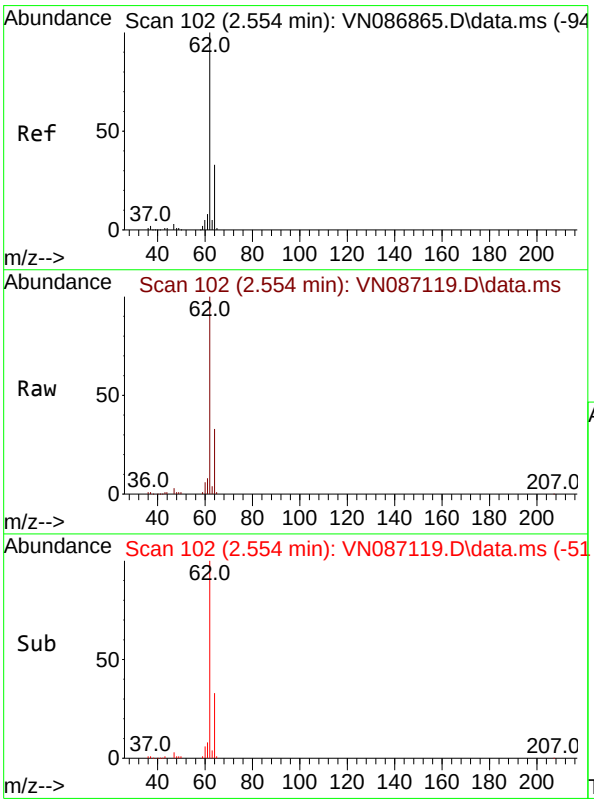
Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.7	38.5



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

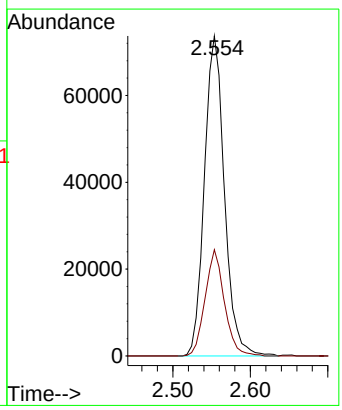
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

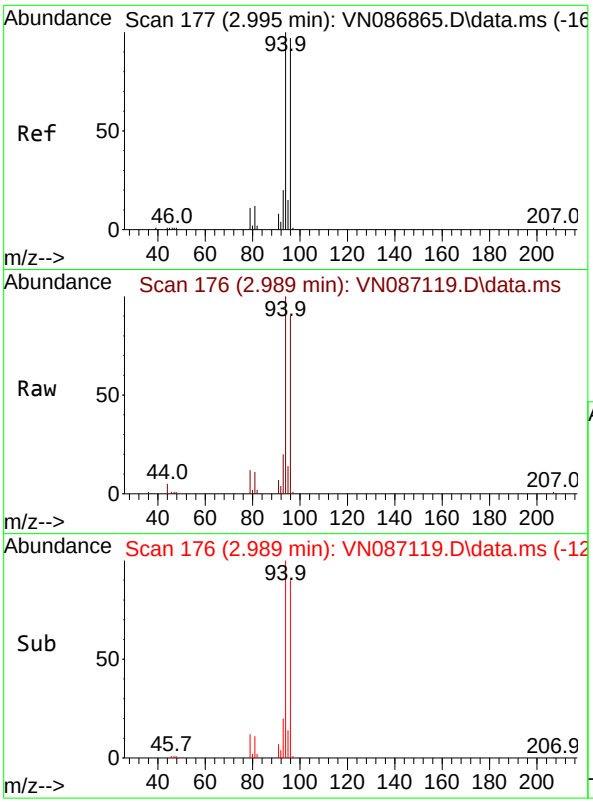


#4
Vinyl Chloride
Concen: 56.075 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 62 Resp: 132183

Ion	Ratio	Lower	Upper
62	100		
64	33.2	26.0	39.0

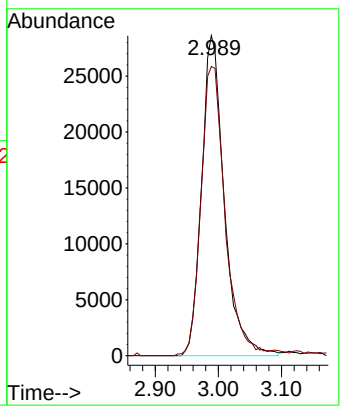




#5
Bromomethane
Concen: 54.057 ug/l
RT: 2.989 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 94 Resp: 7130

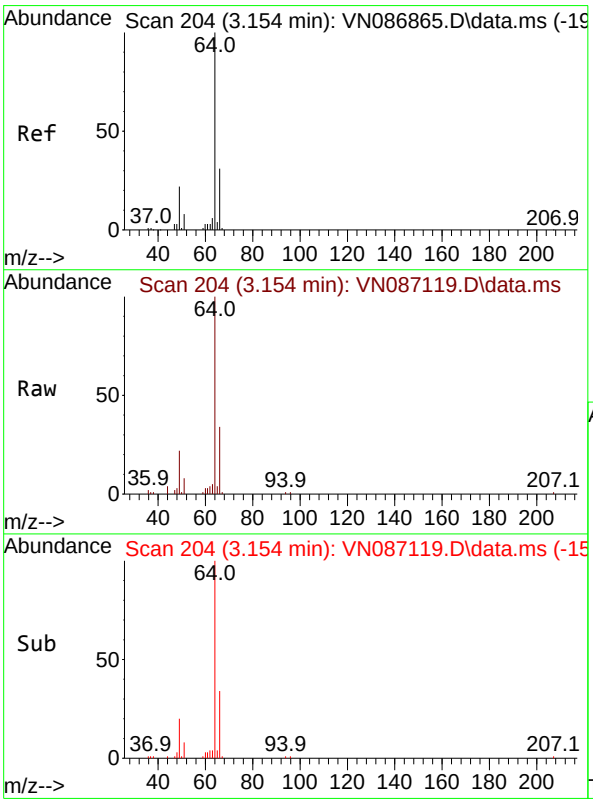
Ion	Ratio	Lower	Upper
94	100		
96	89.8	77.9	116.9



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

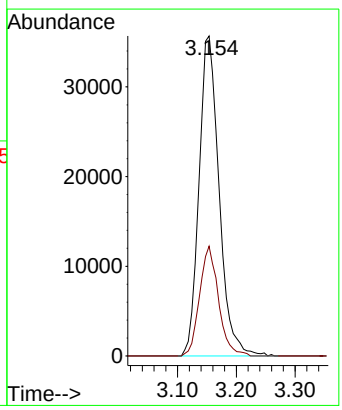
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

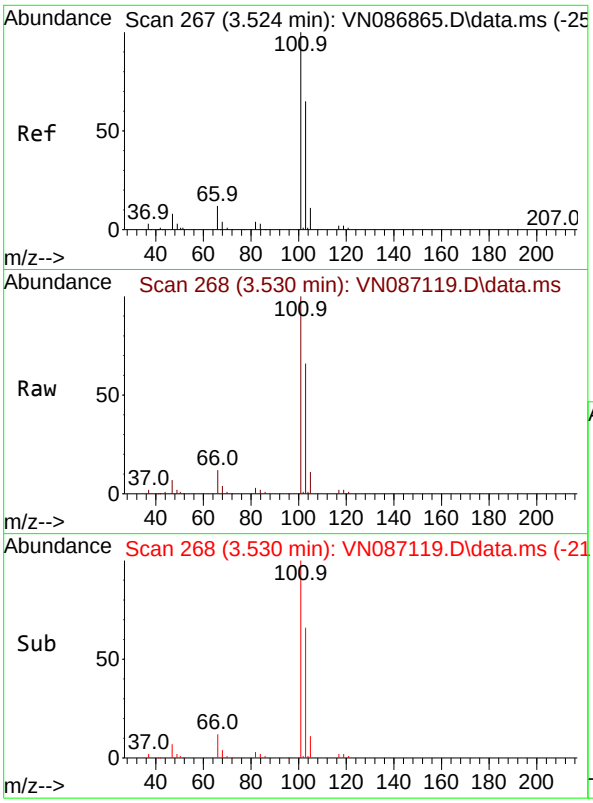


#6
Chloroethane
Concen: 55.503 ug/l
RT: 3.154 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 64 Resp: 84512

Ion	Ratio	Lower	Upper
64	100		
66	34.3	24.6	36.8





#7
Trichlorofluoromethane
Concen: 54.699 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

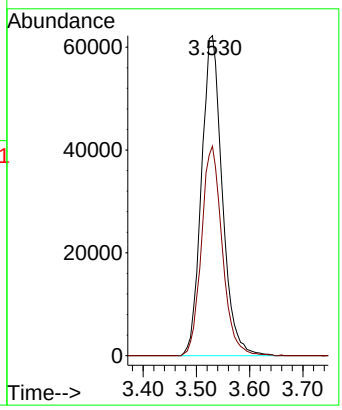
Tgt Ion:101 Resp: 16846

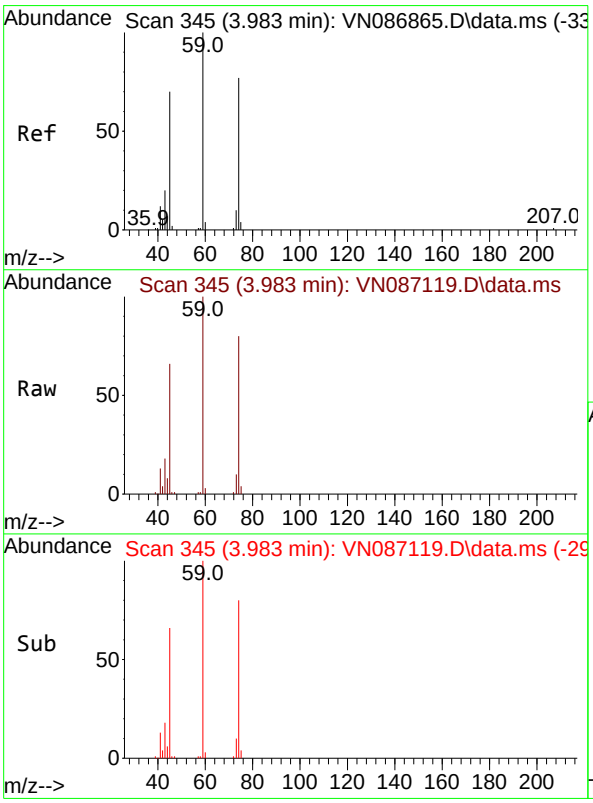
Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.2	78.2

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

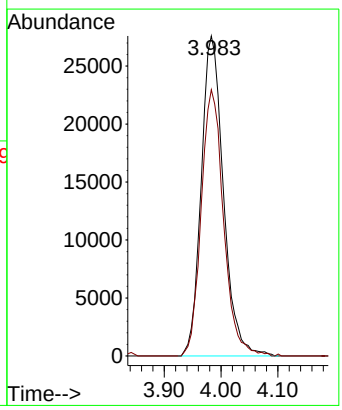


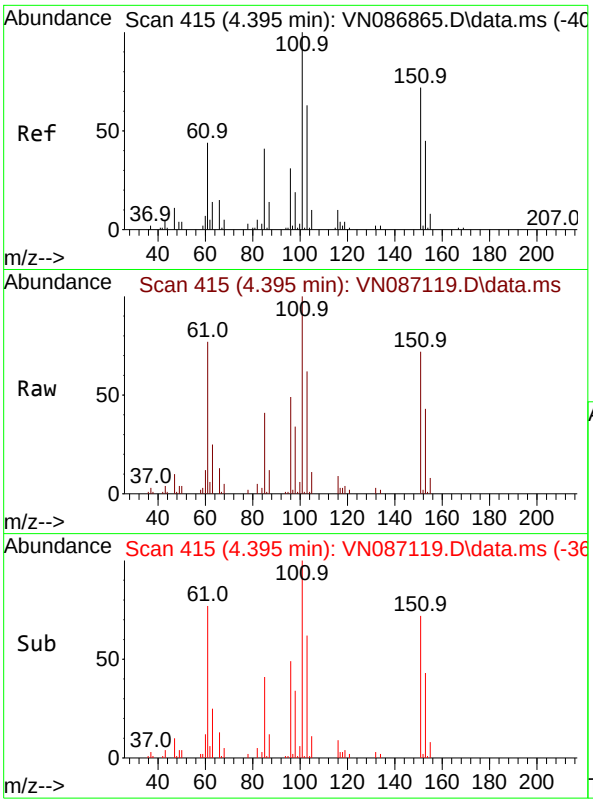


#8
Diethyl Ether
Concen: 55.746 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 74 Resp: 74805

Ion	Ratio	Lower	Upper
74	100		
45	83.7	45.5	136.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.492 ug/l
RT: 4.395 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

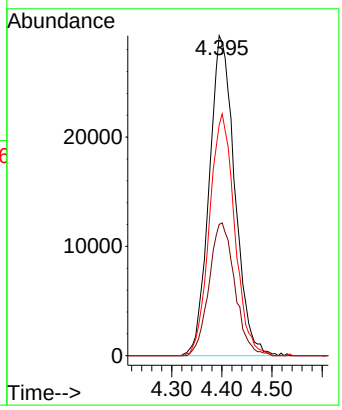
Tgt Ion:101 Resp: 10350

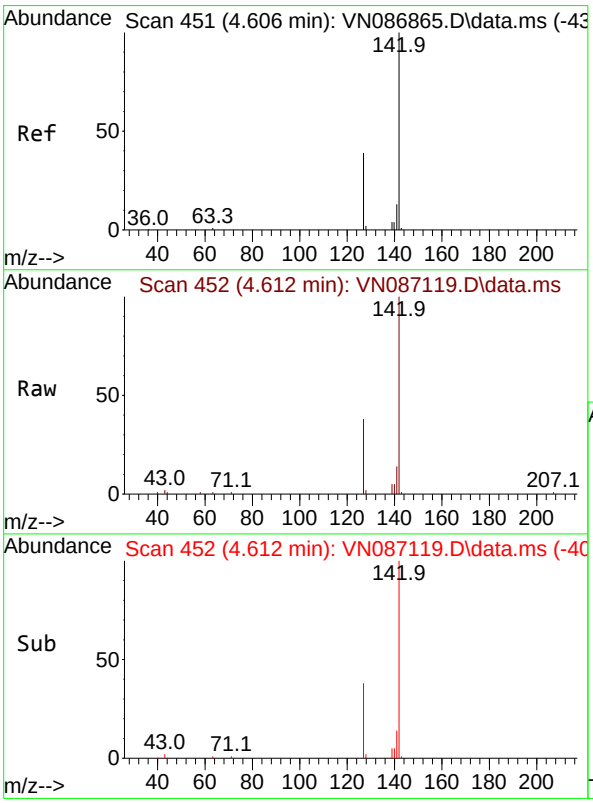
Ion	Ratio	Lower	Upper
101	100		
85	41.9	33.8	50.8
151	74.6	58.7	88.1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

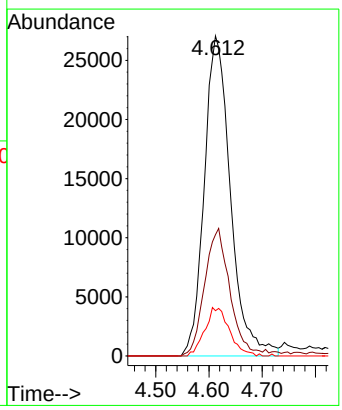


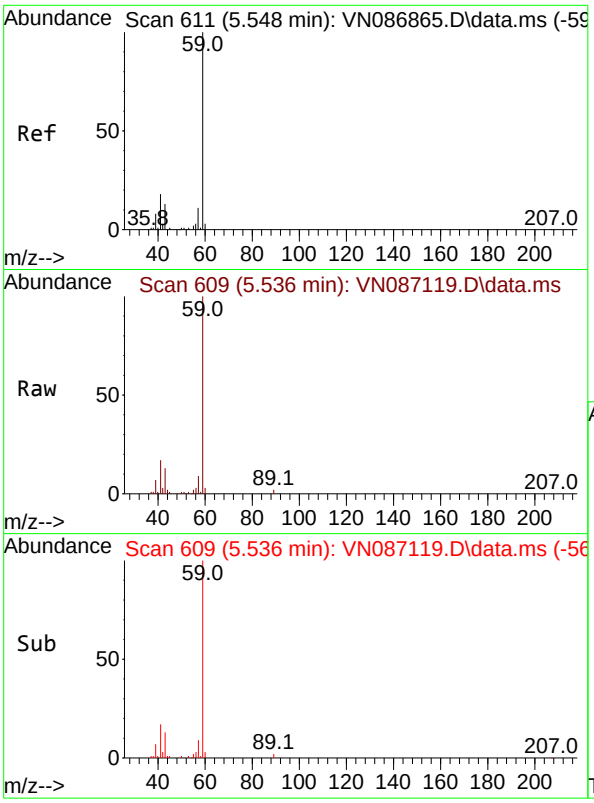


#10
Methyl Iodide
Concen: 36.888 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:142 Resp: 92527

Ion	Ratio	Lower	Upper
142	100		
127	37.9	30.9	46.3
141	14.1	10.4	15.6





#11
Tert butyl alcohol
Concen: 243.326 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

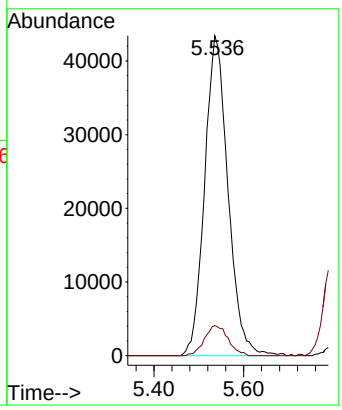
Tgt Ion: 59 Resp: 15689

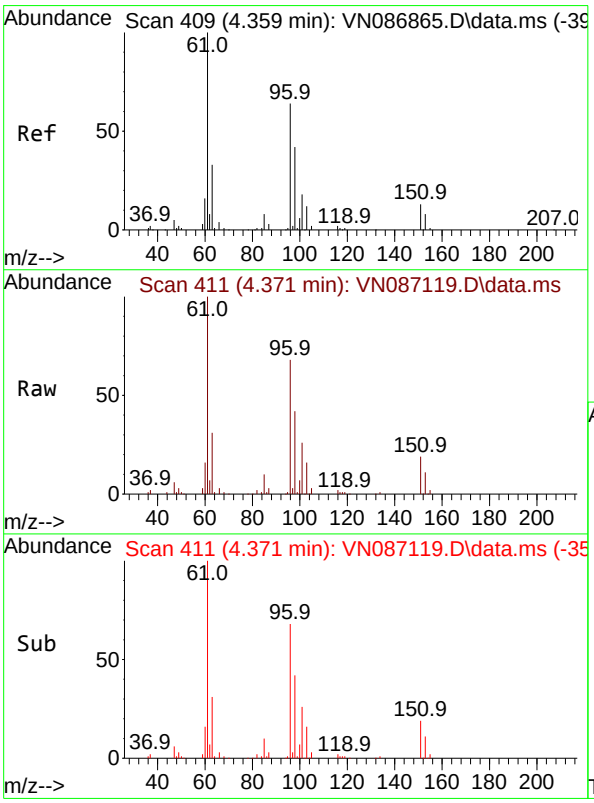
Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.1	12.1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

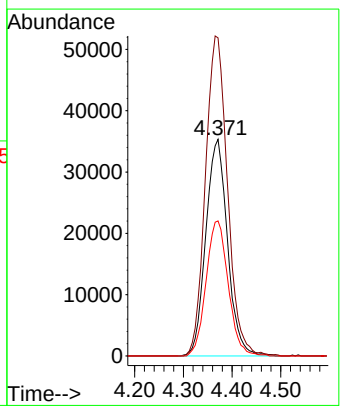


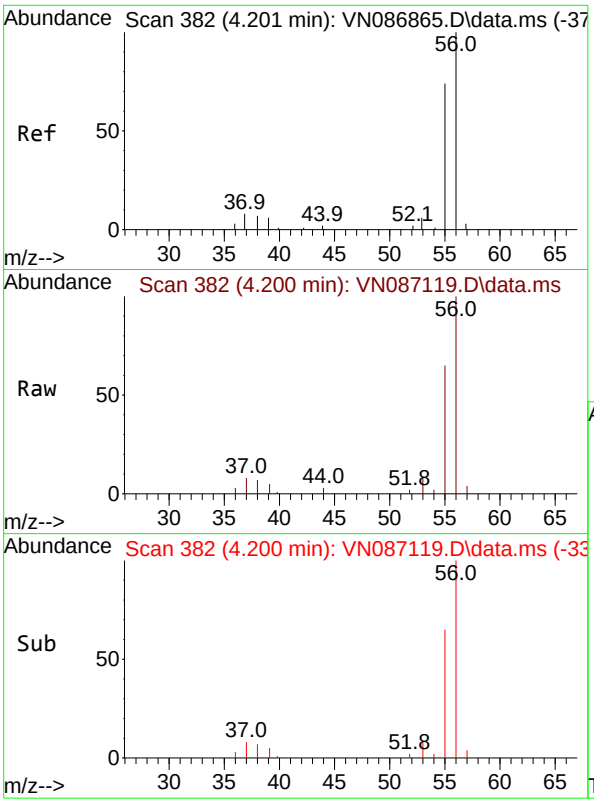


#12
1,1-Dichloroethene
Concen: 55.301 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 96 Resp: 109245

Ion	Ratio	Lower	Upper
96	100		
61	146.9	125.8	188.6
98	62.4	52.5	78.7

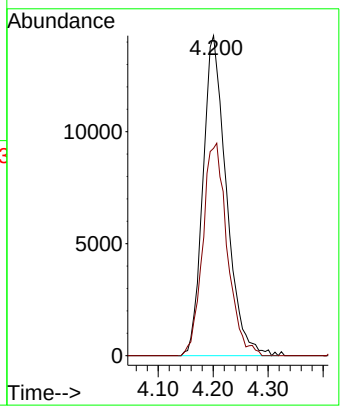




#13
Acrolein
Concen: 207.340 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 56 Resp: 4231

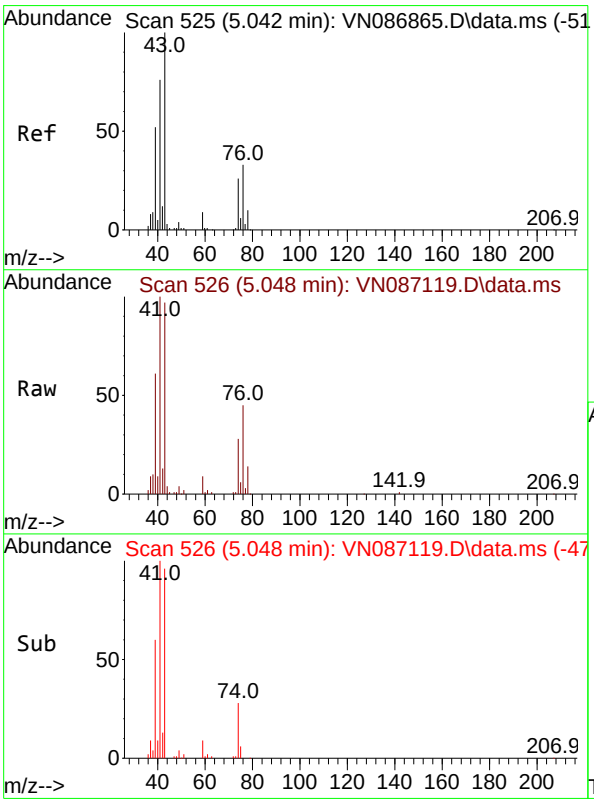
Ion	Ratio	Lower	Upper
56	100		
55	69.3	55.6	83.4



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

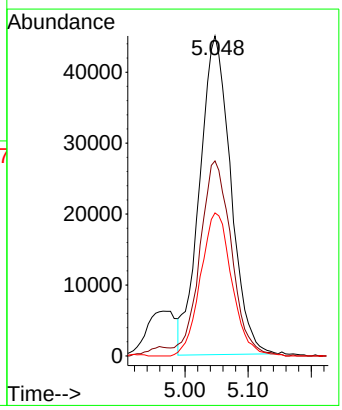
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

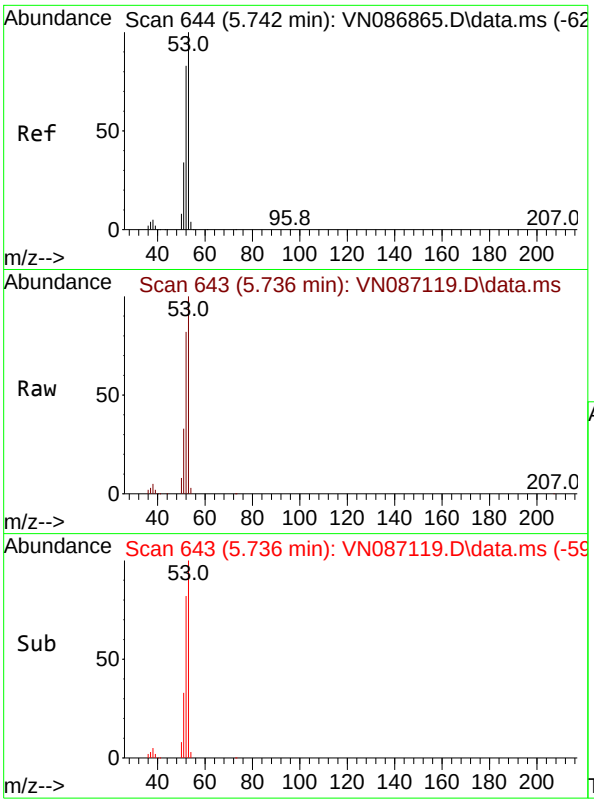


#14
Allyl chloride
Concen: 46.871 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 41 Resp: 153558

Ion	Ratio	Lower	Upper
41	100		
39	62.2	51.3	76.9
76	45.3	31.4	47.0





#15
Acrylonitrile
Concen: 252.842 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

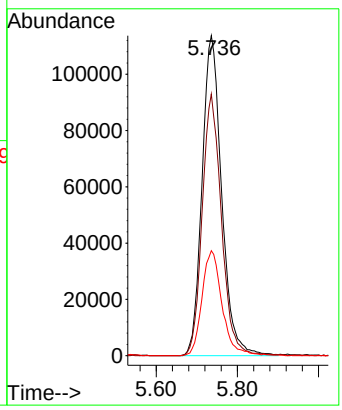
Tgt Ion: 53 Resp: 38106

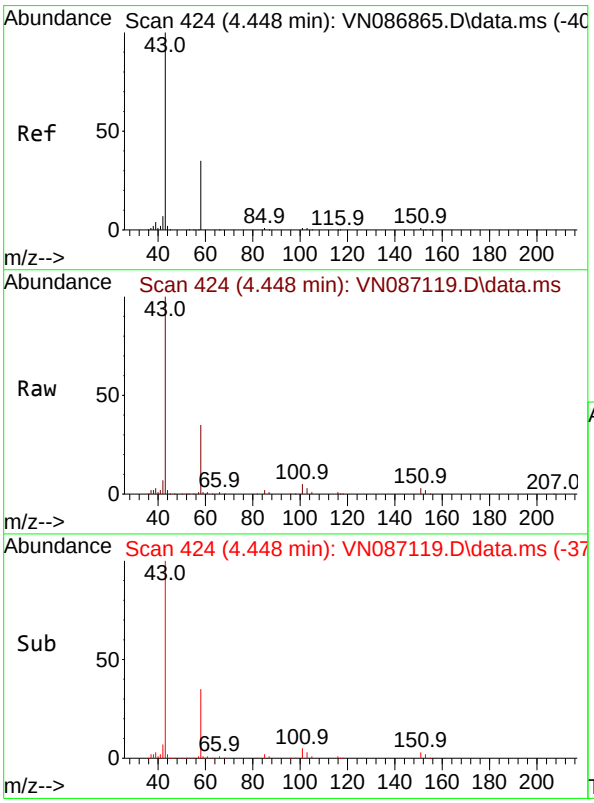
Ion	Ratio	Lower	Upper
53	100		
52	80.2	65.0	97.6
51	33.7	27.2	40.8

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

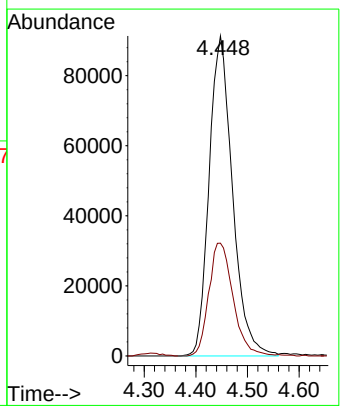


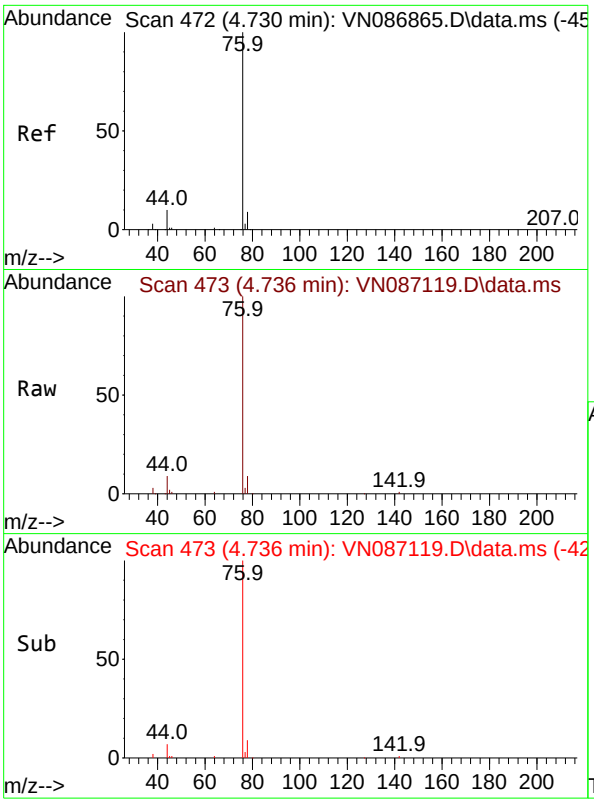


#16
Acetone
Concen: 227.682 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 43 Resp: 286922

Ion	Ratio	Lower	Upper
43	100		
58	35.2	28.0	42.0

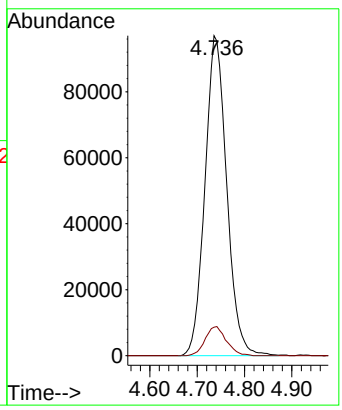




#17
Carbon Disulfide
Concen: 56.642 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 76 Resp: 30951

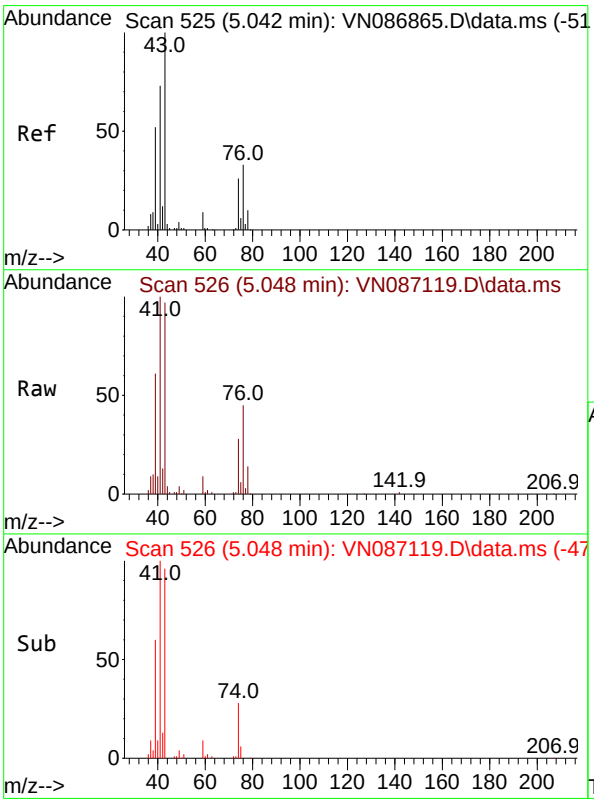
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.3	10.9



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

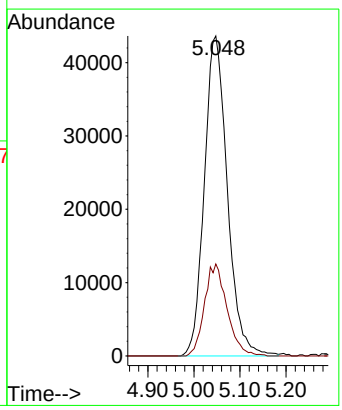
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

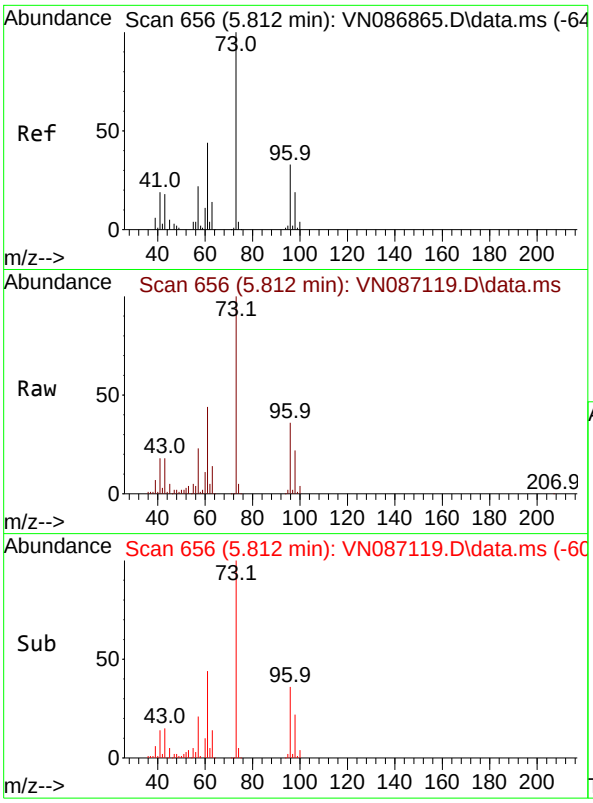


#18
Methyl Acetate
Concen: 41.293 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 43 Resp: 151644

Ion	Ratio	Lower	Upper
43	100		
74	28.2	20.7	31.1

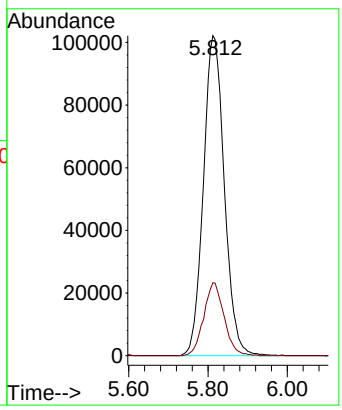




#19
Methyl tert-butyl Ether
Concen: 52.338 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 73 Resp: 37436

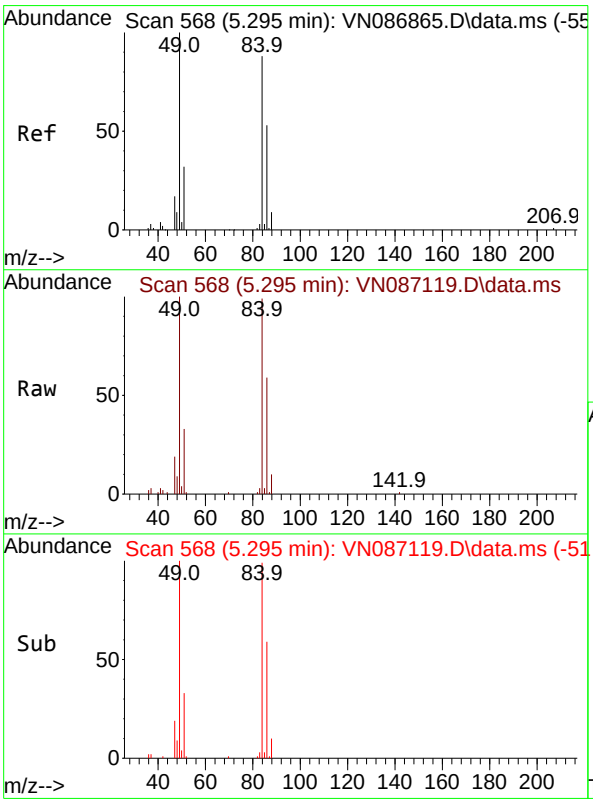
Ion	Ratio	Lower	Upper
73	100		
57	22.8	17.4	26.2



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

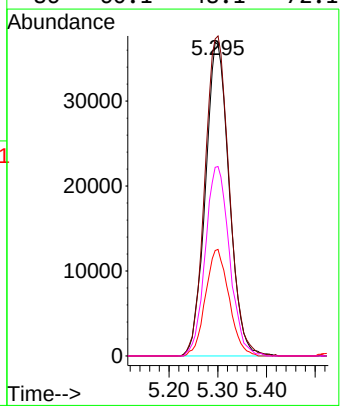
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

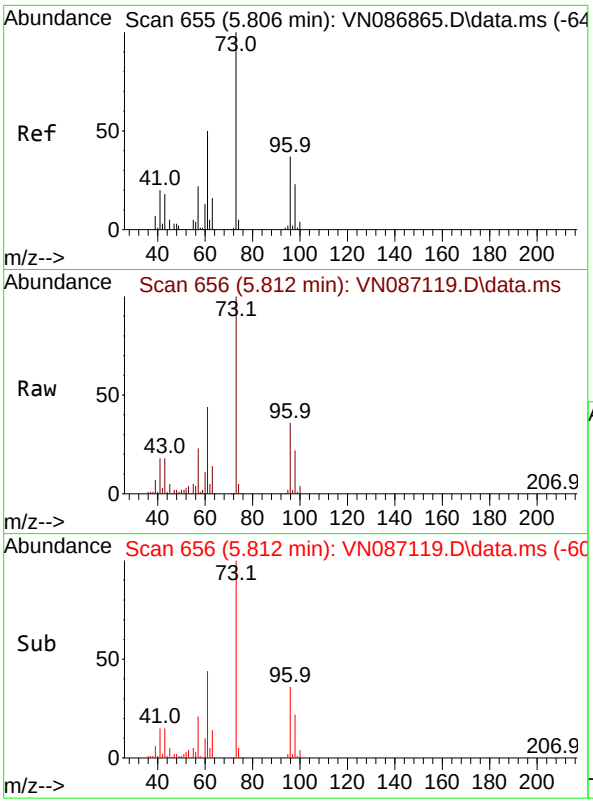


#20
Methylene Chloride
Concen: 53.036 ug/l
RT: 5.295 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 84 Resp: 125128

Ion	Ratio	Lower	Upper
84	100		
49	101.1	90.5	135.7
51	33.6	28.5	42.7
86	60.1	48.1	72.1





#21
trans-1,2-Dichloroethene
Concen: 53.301 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

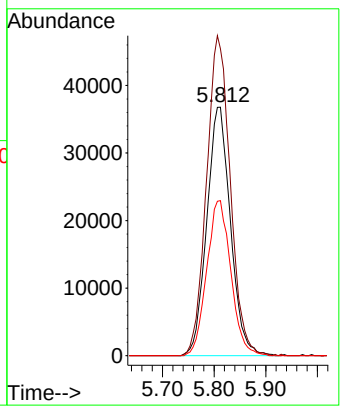
Tgt Ion: 96 Resp: 11714

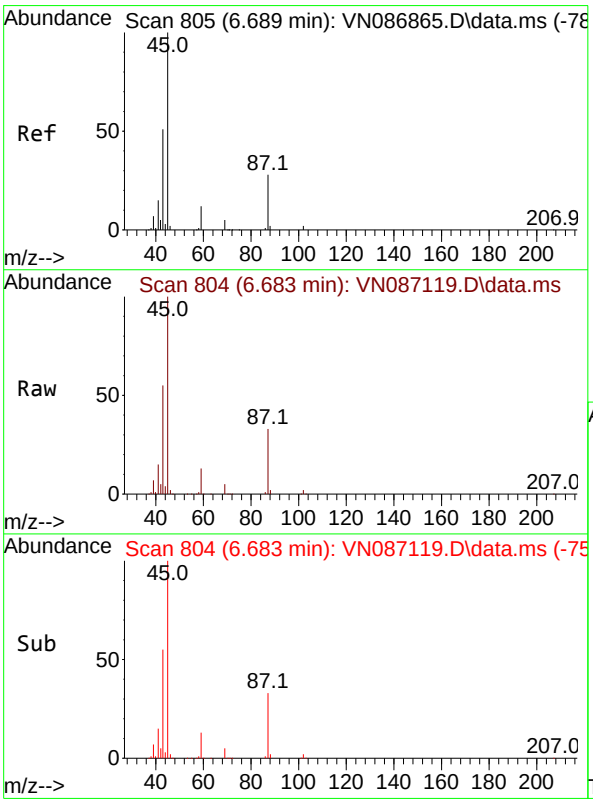
Ion	Ratio	Lower	Upper
96	100		
61	123.5	109.2	163.8
98	62.4	49.8	74.8

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

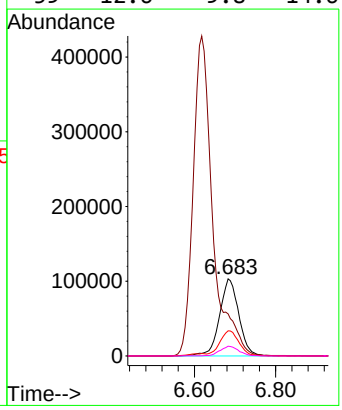


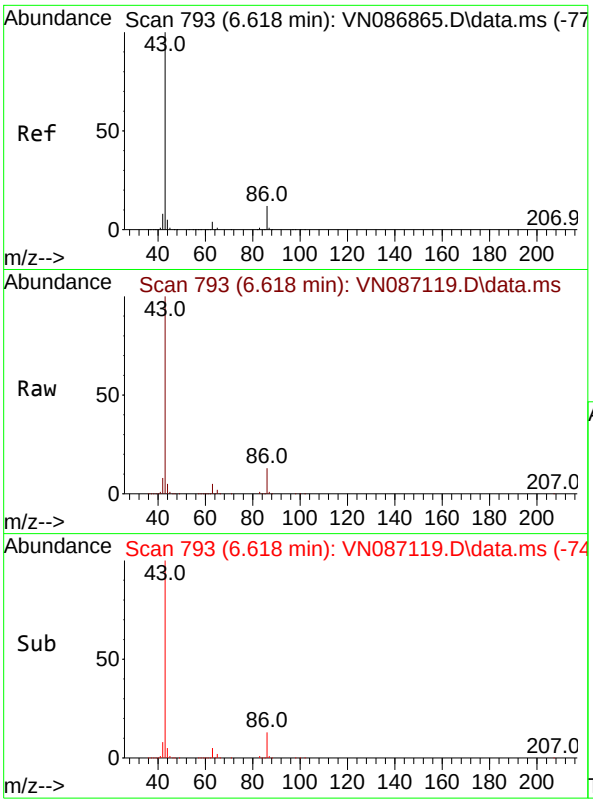


#22
Diisopropyl ether
Concen: 49.286 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 45 Resp: 340365

Ion	Ratio	Lower	Upper
45	100		
43	54.0	41.9	62.9
87	32.5	22.4	33.6
59	12.6	9.8	14.6





#23
Vinyl Acetate
Concen: 245.547 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

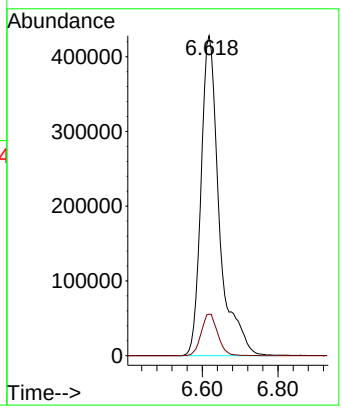
Tgt Ion: 43 Resp: 143271

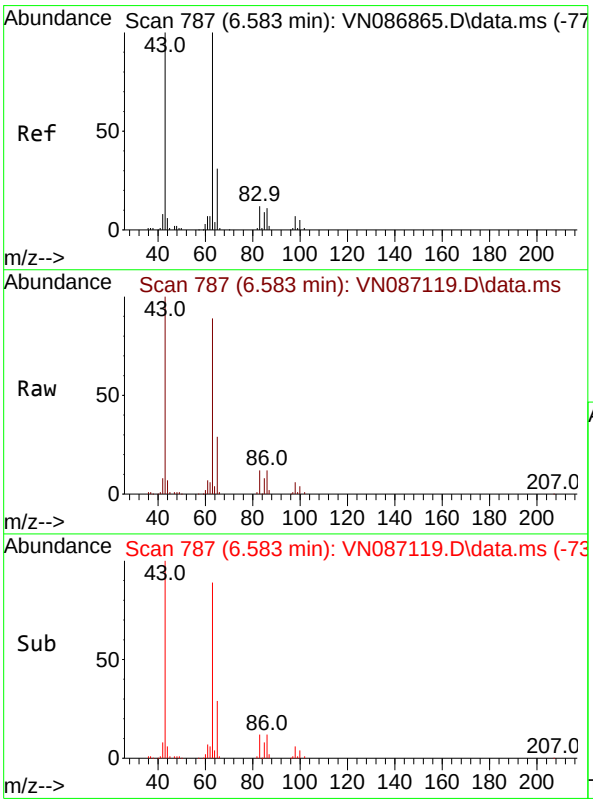
Ion	Ratio	Lower	Upper
43	100		
86	12.9	9.5	14.3

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

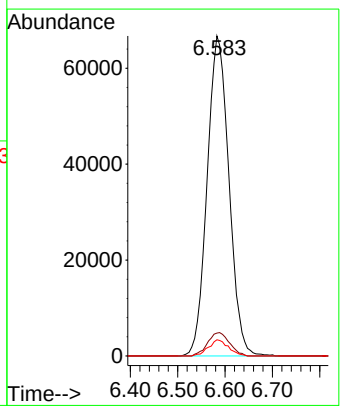


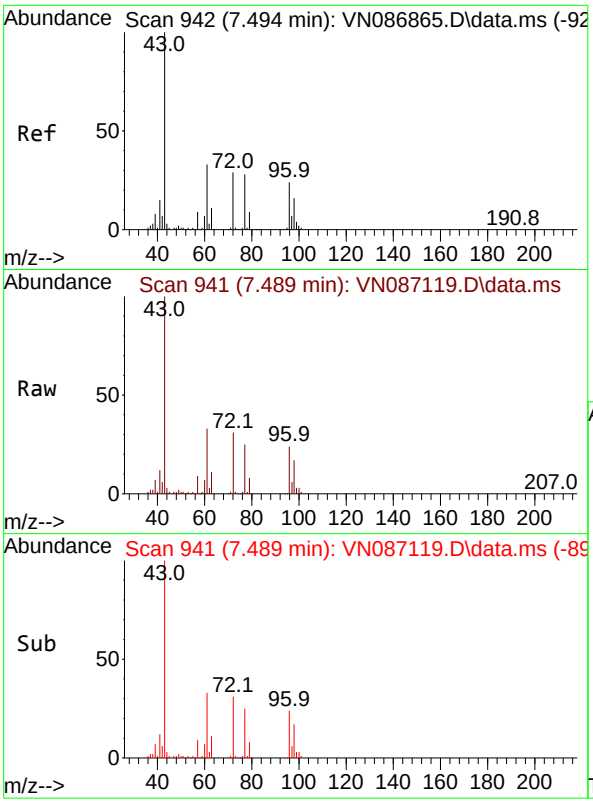


#24
1,1-Dichloroethane
Concen: 53.751 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 63 Resp: 213618

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.6	10.8
100	5.0	2.6	7.8





#25
2-Butanone
Concen: 233.627 ug/l
RT: 7.489 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

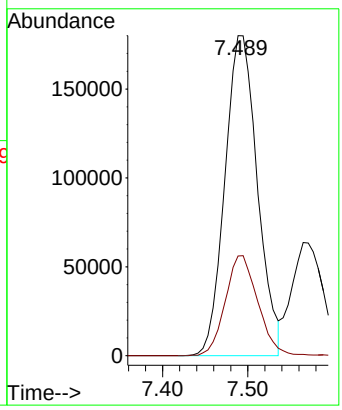
Tgt Ion: 43 Resp: 47855

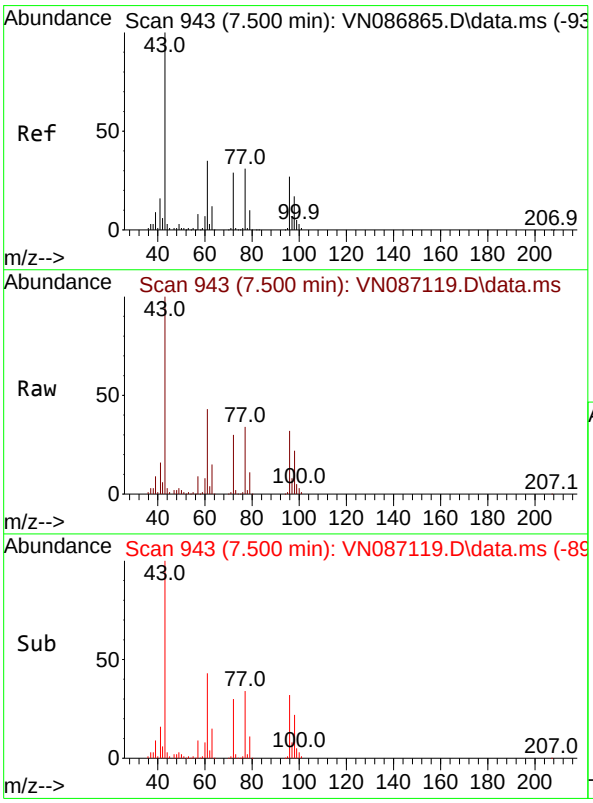
Ion	Ratio	Lower	Upper
43	100		
72	31.1	23.0	34.6

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

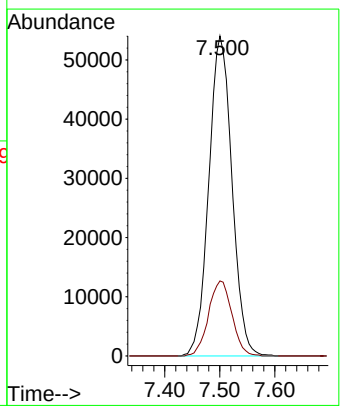


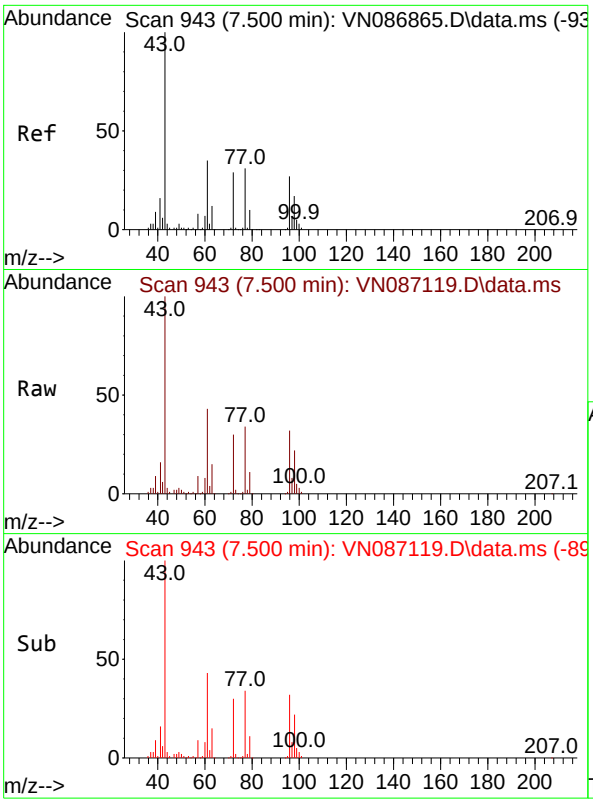


#26
2,2-Dichloropropane
Concen: 51.163 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 77 Resp: 158168

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.6	34.7

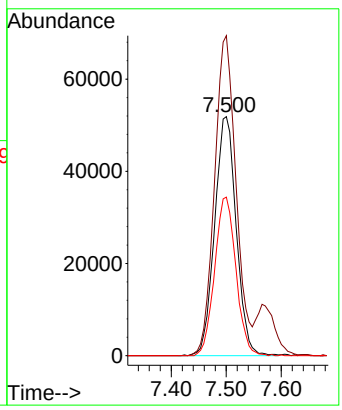




#27
cis-1,2-Dichloroethene
Concen: 53.896 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 96 Resp: 14166

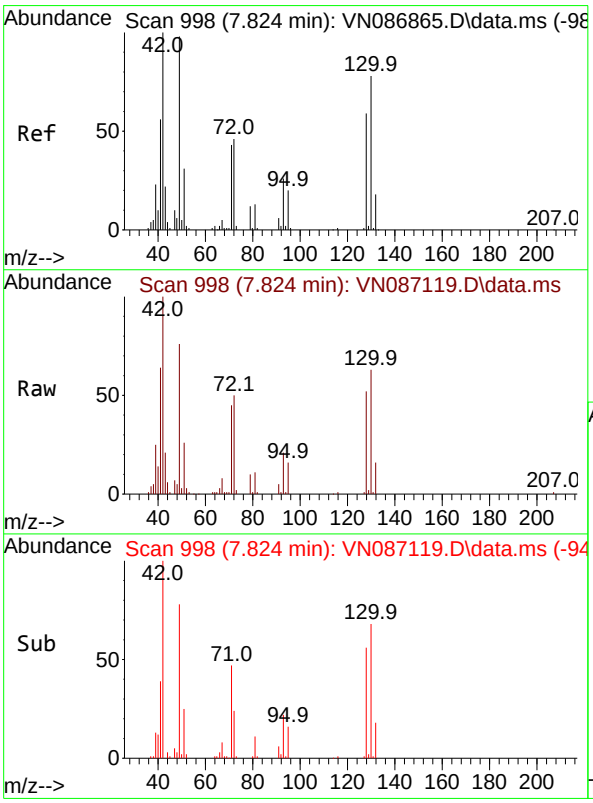
Ion	Ratio	Lower	Upper
96	100		
61	133.1	0.0	278.0
98	65.3	0.0	128.2



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

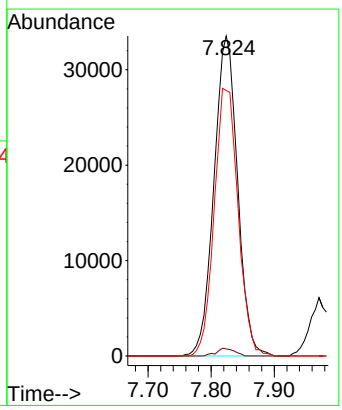
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

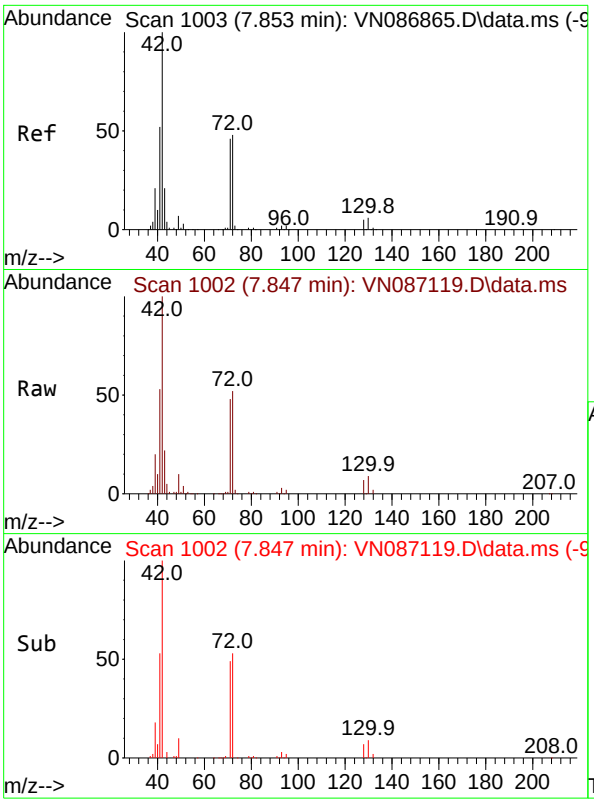


#28
Bromochloromethane
Concen: 44.499 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 49 Resp: 86952

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	84.7	62.2	93.2

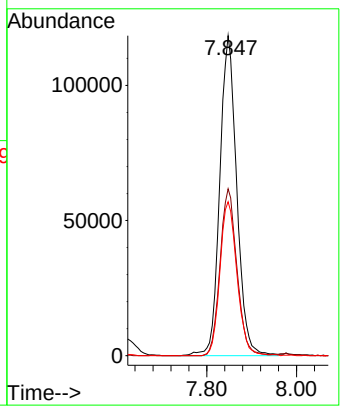




#29
Tetrahydrofuran
Concen: 233.785 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 42 Resp: 31195

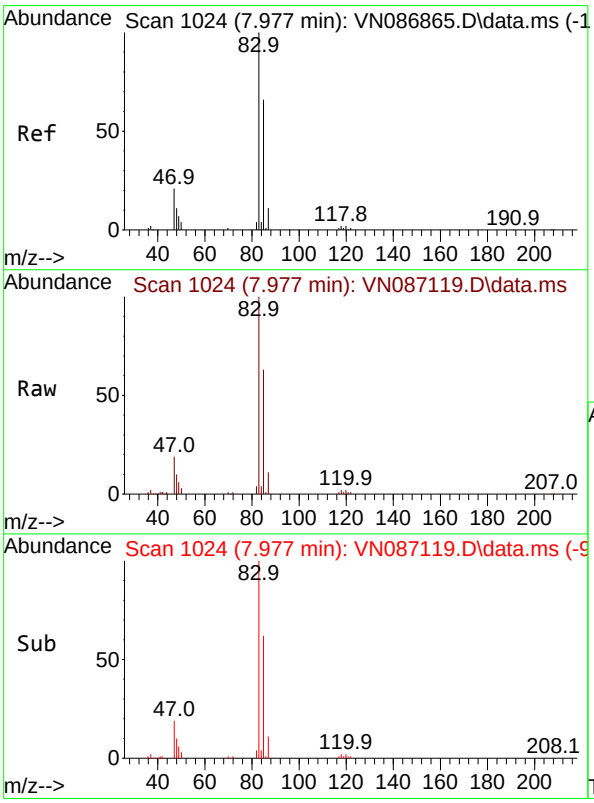
Ion	Ratio	Lower	Upper
42	100		
72	51.7	37.8	56.6
71	48.2	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

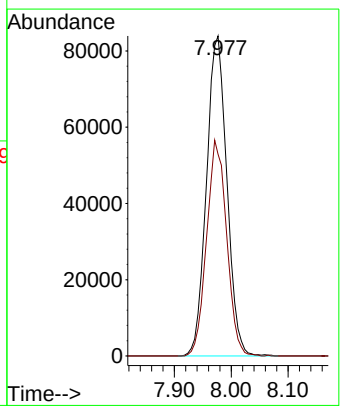
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

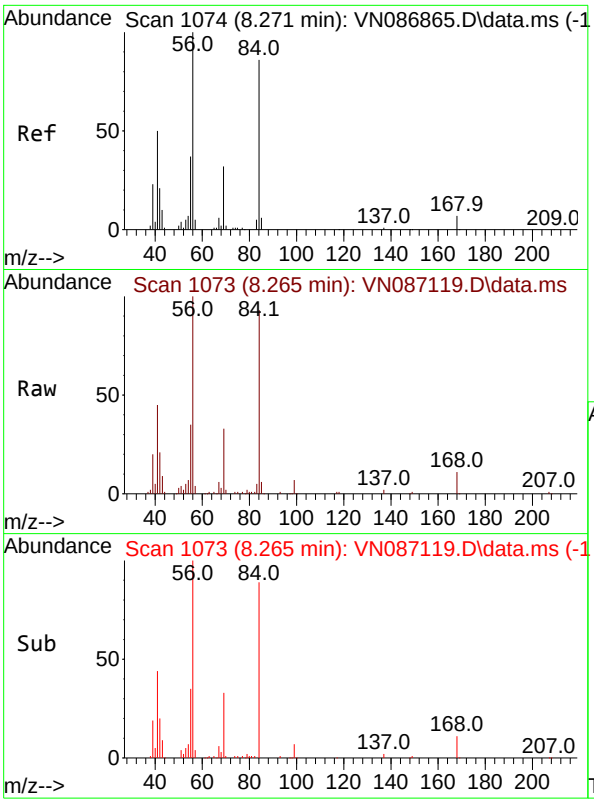


#30
Chloroform
Concen: 52.659 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 83 Resp: 208999

Ion	Ratio	Lower	Upper
83	100		
85	63.1	52.9	79.3

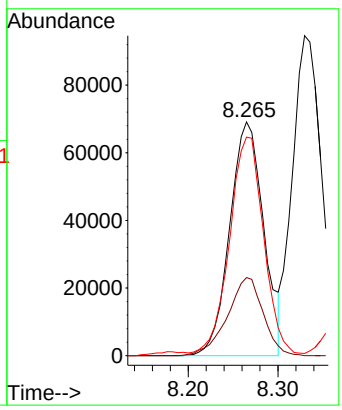




#31
Cyclohexane
Concen: 47.251 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 56 Resp: 18211

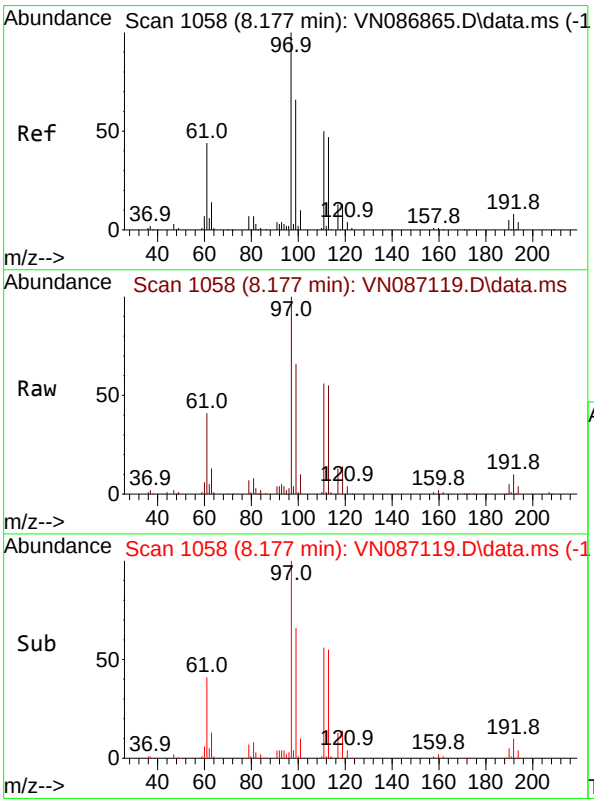
Ion	Ratio	Lower	Upper
56	100		
69	33.4	25.4	38.0
84	92.2	68.8	103.2



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

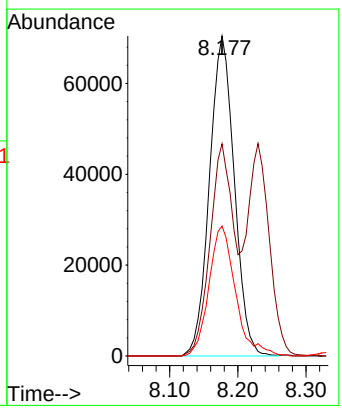
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

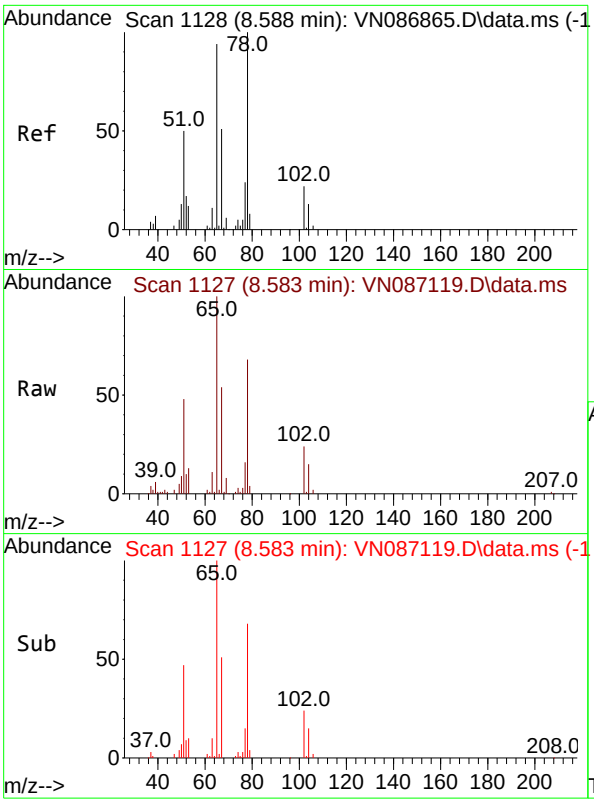


#32
1,1,1-Trichloroethane
Concen: 52.950 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 97 Resp: 178740

Ion	Ratio	Lower	Upper
97	100		
99	61.7	52.0	78.0
61	43.3	35.9	53.9





#33
1,2-Dichloroethane-d4
Concen: 44.742 ug/l
RT: 8.583 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

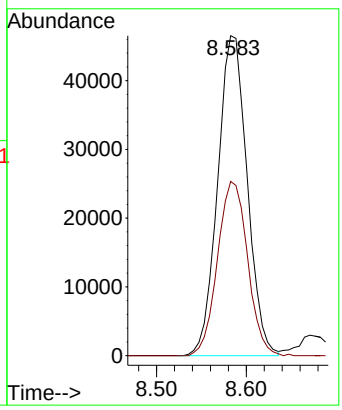
Tgt Ion: 65 Resp: 10632

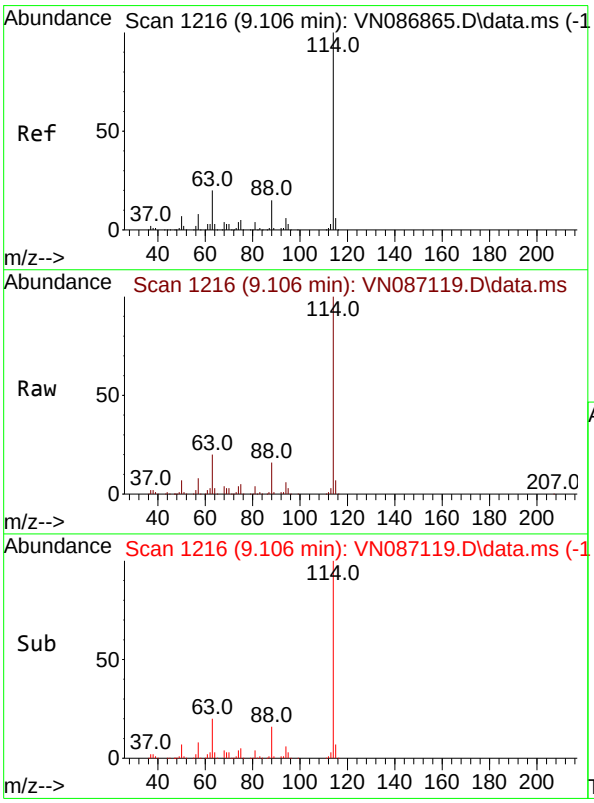
Ion	Ratio	Lower	Upper
65	100		
67	55.5	0.0	105.6

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

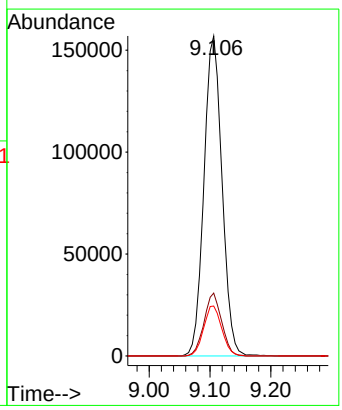


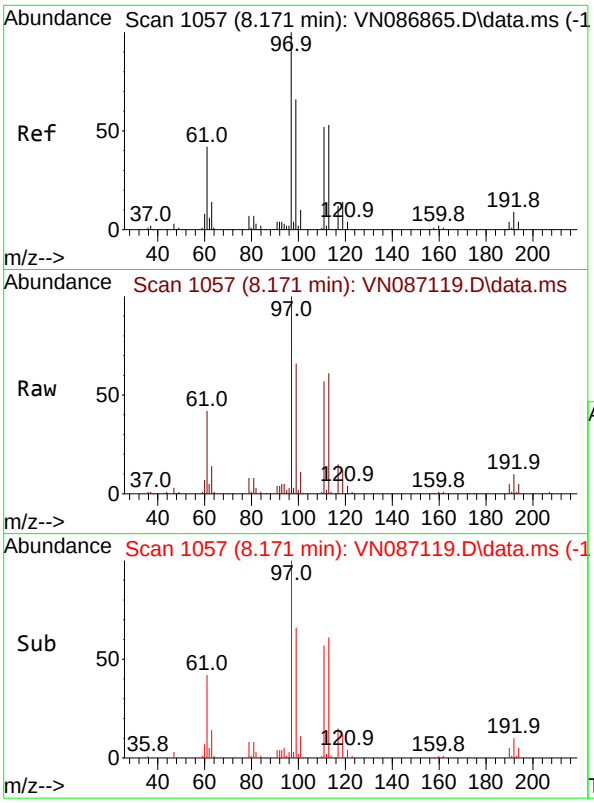


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:114 Resp: 324249

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.6
88	15.6	0.0	30.2

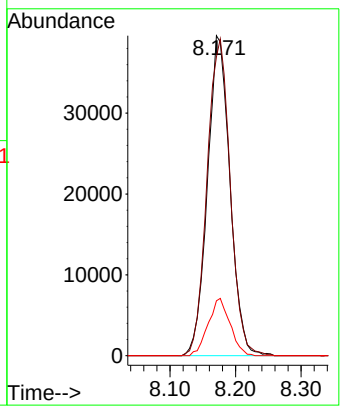




#35
Dibromofluoromethane
Concen: 49.076 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:113 Resp: 9430

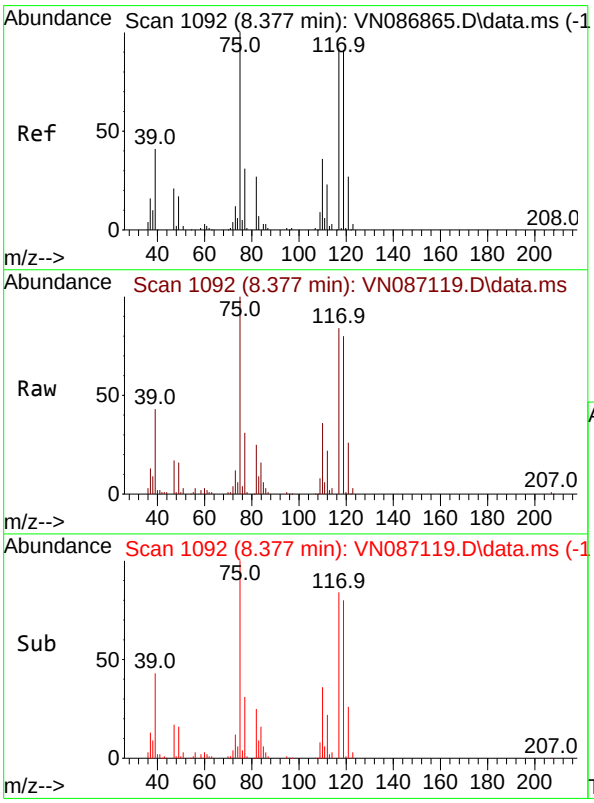
Ion	Ratio	Lower	Upper
113	100		
111	101.9	84.2	126.2
192	17.4	14.2	21.4



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

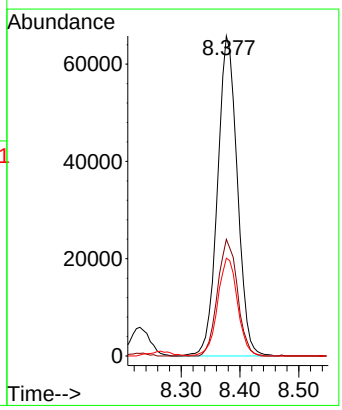
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

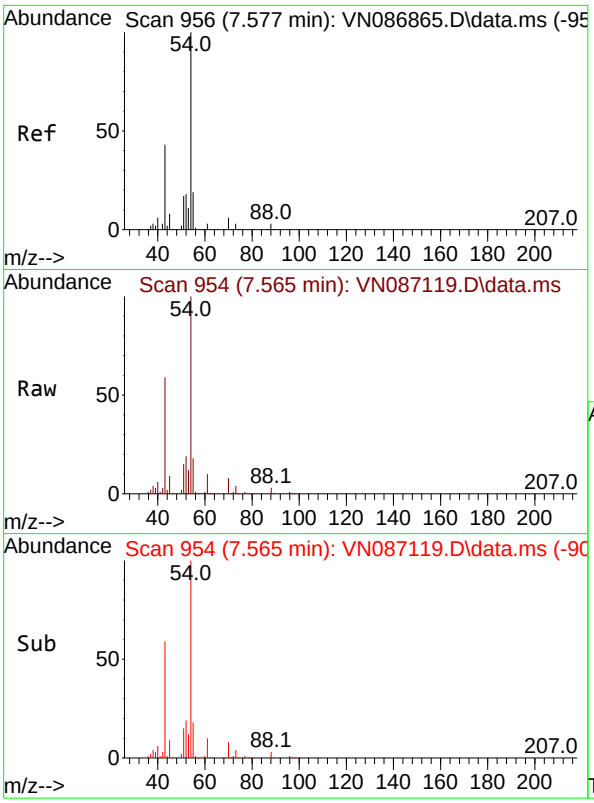


#36
1,1-Dichloropropene
Concen: 53.717 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 75 Resp: 153809

Ion	Ratio	Lower	Upper
75	100		
110	36.6	17.6	52.9
77	30.8	25.3	37.9

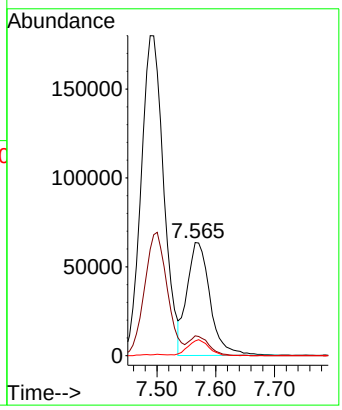




#37
Ethyl Acetate
Concen: 47.551 ug/l
RT: 7.565 min Scan# 9
Delta R.T. -0.012 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 43 Resp: 17332

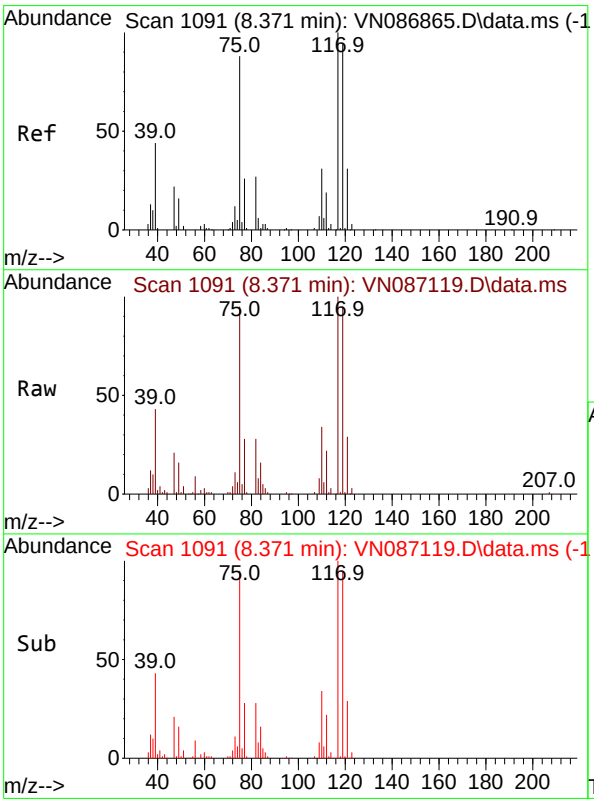
Ion	Ratio	Lower	Upper
43	100		
61	14.5	12.1	18.1
70	12.8	9.8	14.6



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

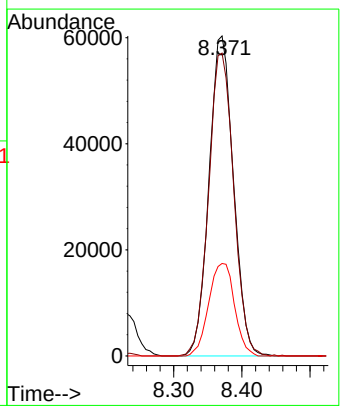
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

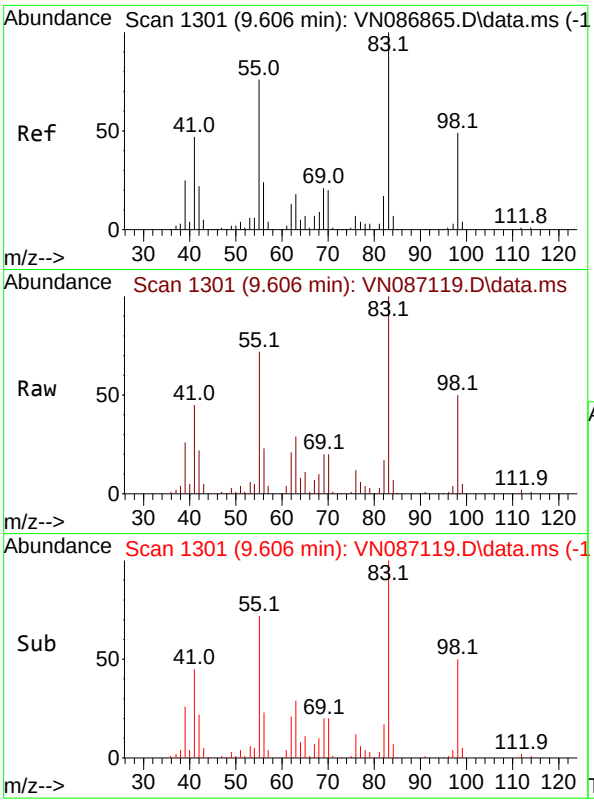


#38
Carbon Tetrachloride
Concen: 53.493 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:117 Resp: 150377

Ion	Ratio	Lower	Upper
117	100		
119	94.7	75.0	112.6
121	28.9	24.9	37.3

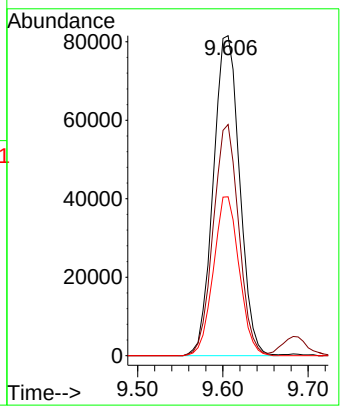




#39
Methylcyclohexane
Concen: 44.558 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 83 Resp: 17479

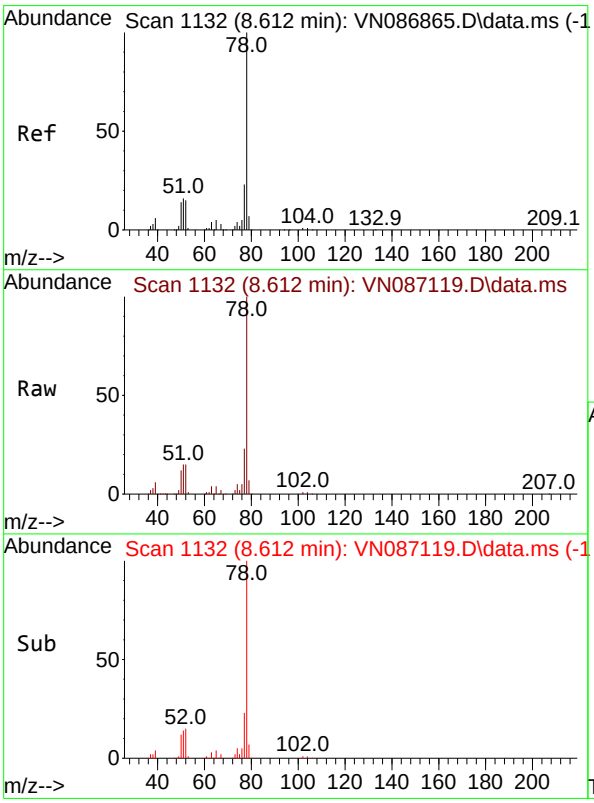
Ion	Ratio	Lower	Upper
83	100		
55	72.3	61.0	91.6
98	49.7	38.9	58.3



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

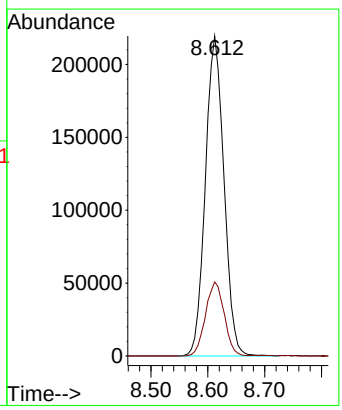
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

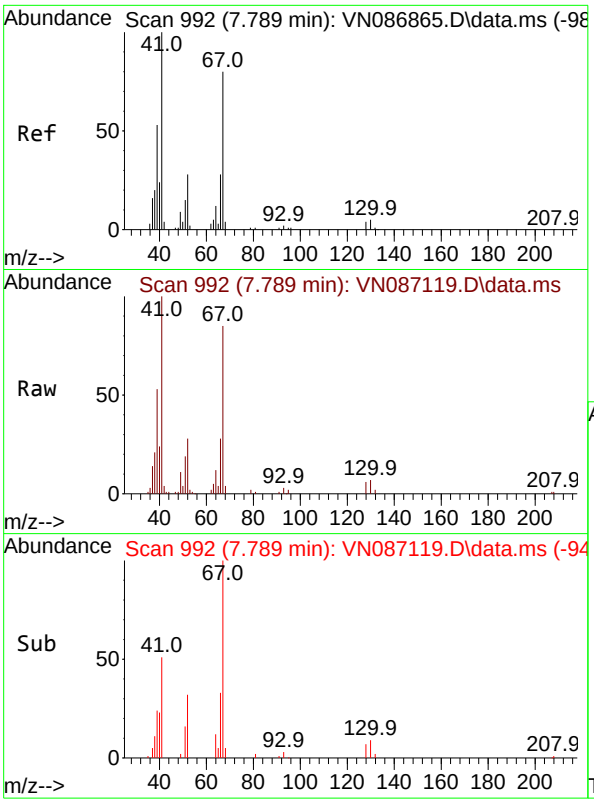


#40
Benzene
Concen: 53.139 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 78 Resp: 497556

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.7	28.1

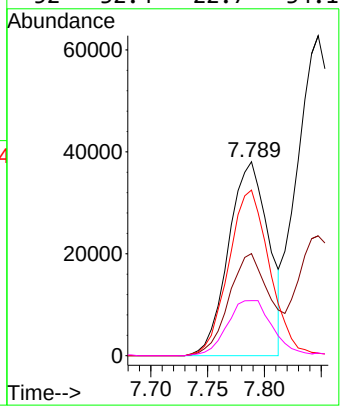




#41
Methacrylonitrile
Concen: 45.624 ug/l
RT: 7.789 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 41 Resp: 9339

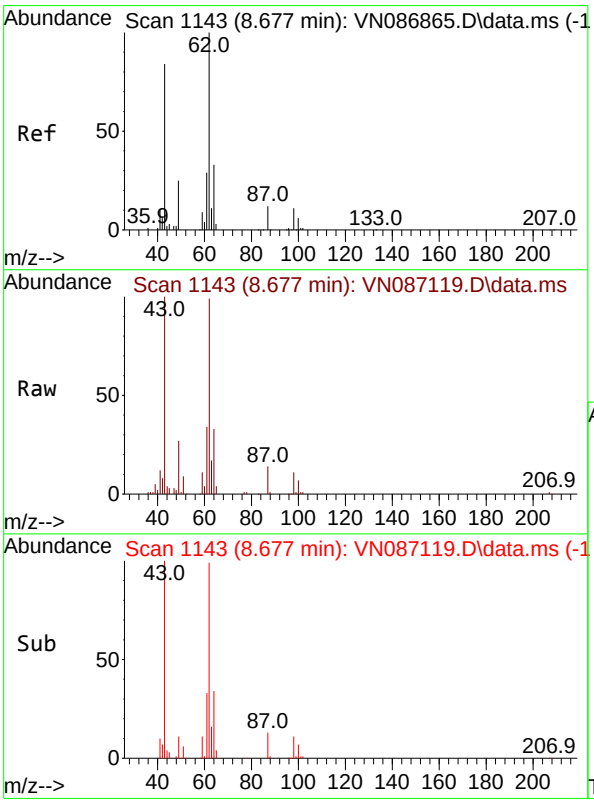
Ion	Ratio	Lower	Upper
41	100		
39	55.1	41.2	61.8
67	88.3	61.4	92.2
52	32.4	22.7	34.1



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

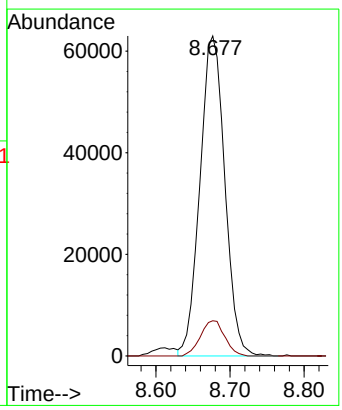
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

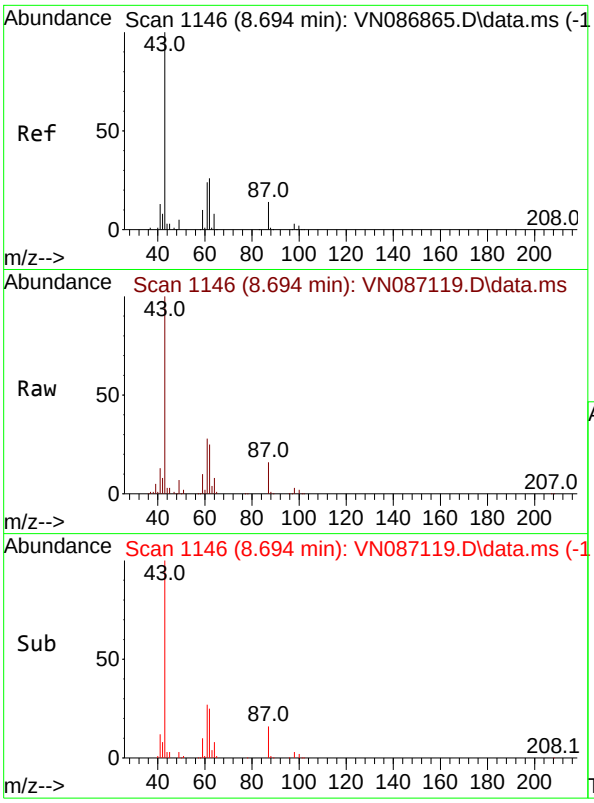


#42
1,2-Dichloroethane
Concen: 51.700 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 62 Resp: 146825

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	21.2

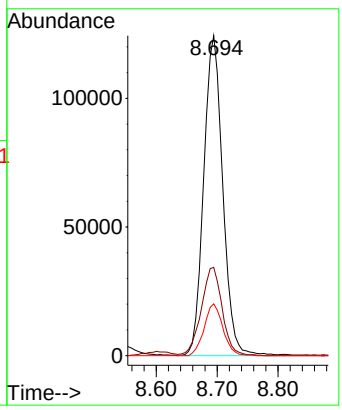




#43
Isopropyl Acetate
Concen: 46.148 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 43 Resp: 26998

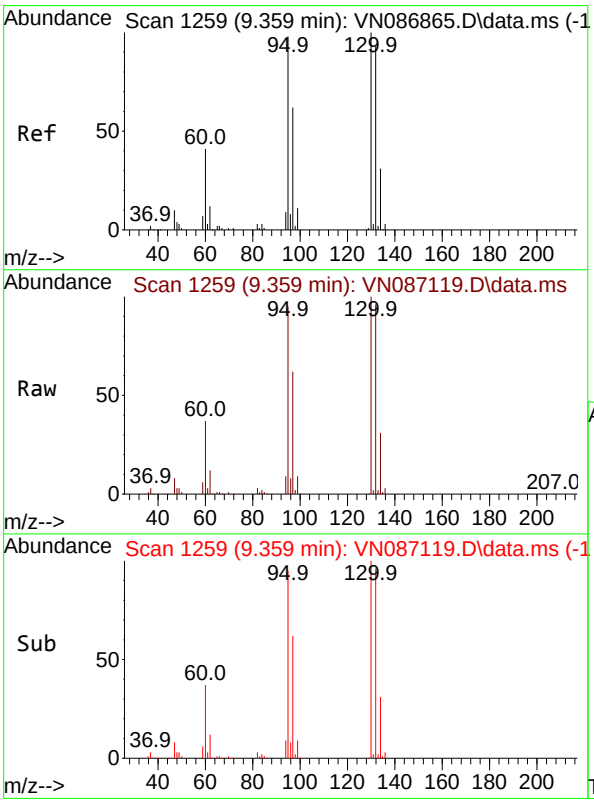
Ion	Ratio	Lower	Upper
43	100		
61	30.4	22.1	33.1
87	16.0	11.8	17.6



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

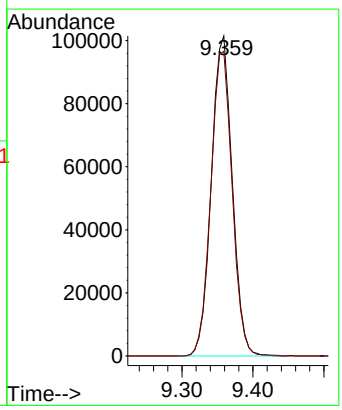
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

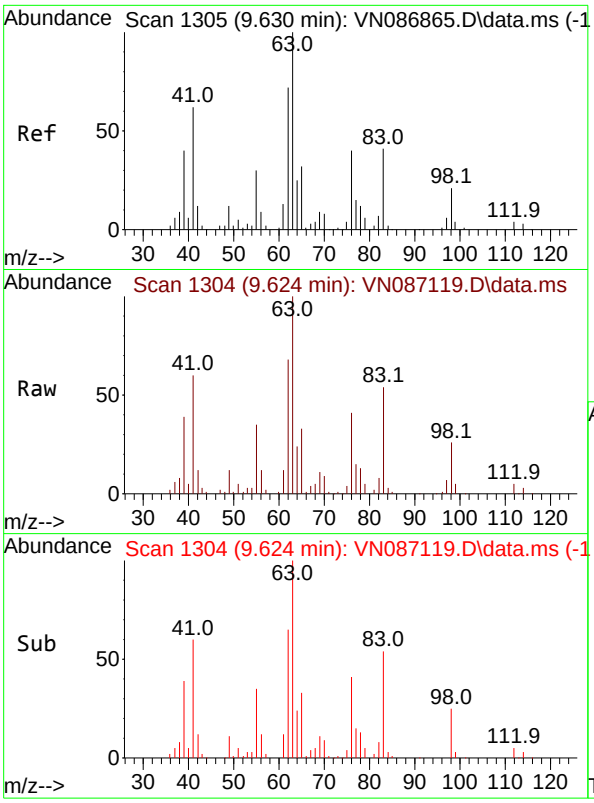


#44
Trichloroethene
Concen: 93.156 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:130 Resp: 206823

Ion	Ratio	Lower	Upper
130	100		
95	95.2	0.0	196.2

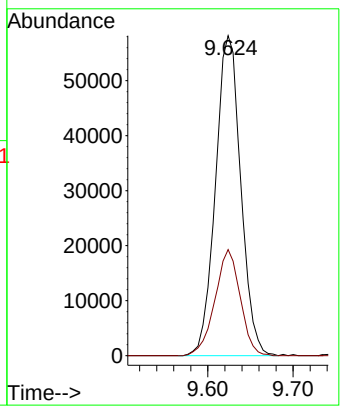




#45
1,2-Dichloropropane
Concen: 52.538 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 63 Resp: 11967

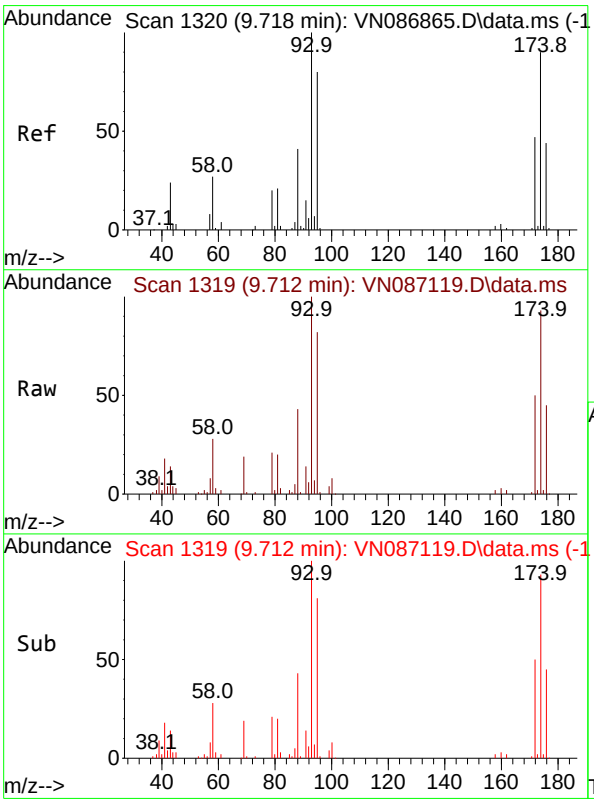
Ion	Ratio	Lower	Upper
63	100		
65	33.2	25.5	38.3



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

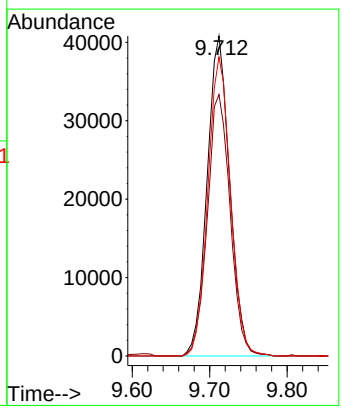
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

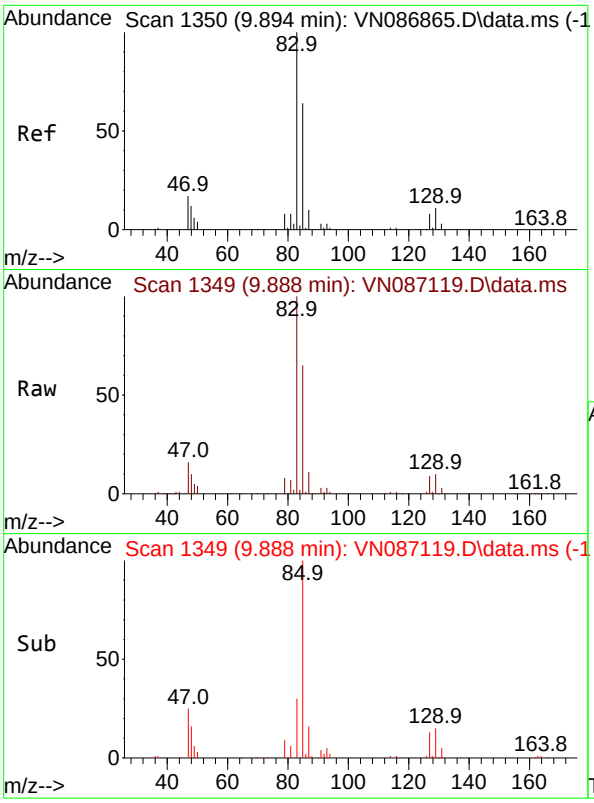


#46
Dibromomethane
Concen: 54.645 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 93 Resp: 82681

Ion	Ratio	Lower	Upper
93	100		
95	82.7	67.1	100.7
174	93.9	74.2	111.4





#47
Bromodichloromethane
Concen: 53.015 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

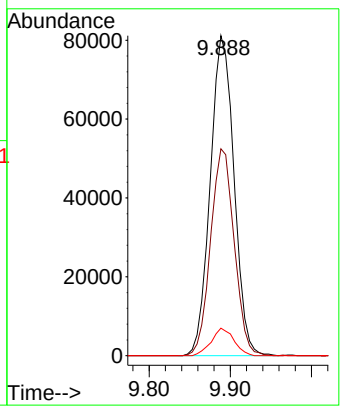
Tgt Ion: 83 Resp: 16503

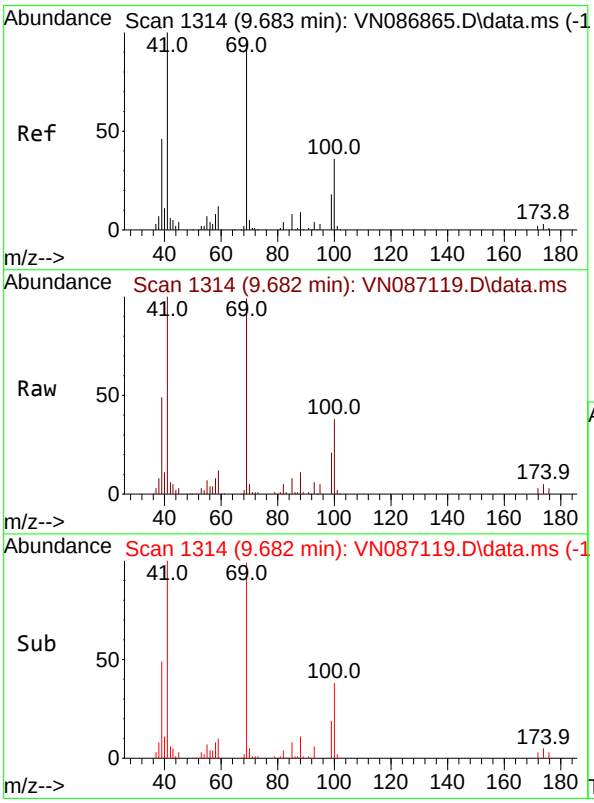
Ion	Ratio	Lower	Upper
83	100		
85	64.6	50.9	76.3
127	8.6	6.6	10.0

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

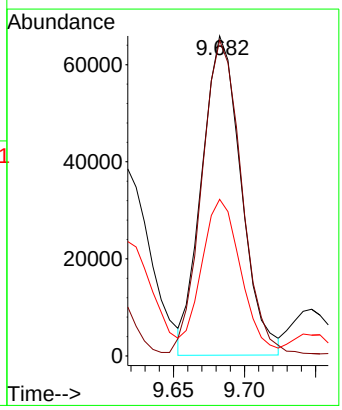


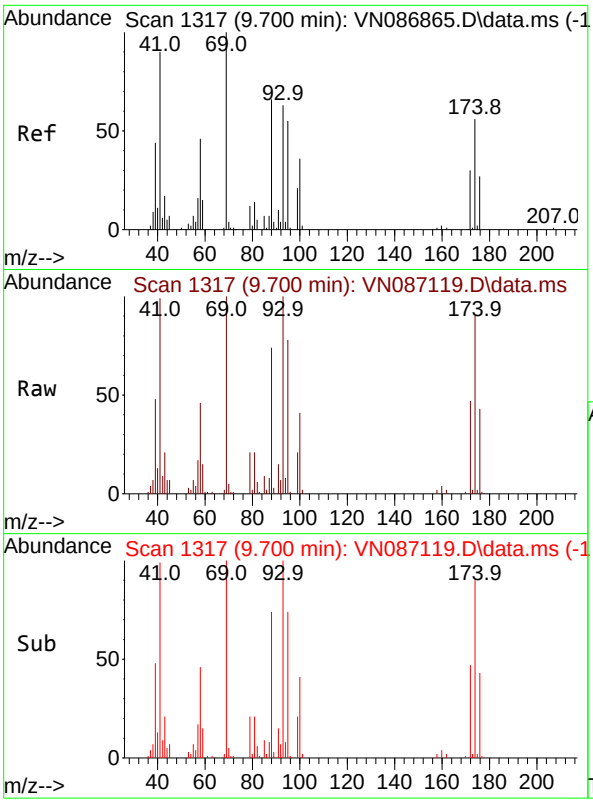


#48
Methyl methacrylate
Concen: 47.024 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 41 Resp: 126622

Ion	Ratio	Lower	Upper
41	100		
69	100.7	74.6	112.0
39	49.8	40.2	60.4





#49
1,4-Dioxane
Concen: 1052.526 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

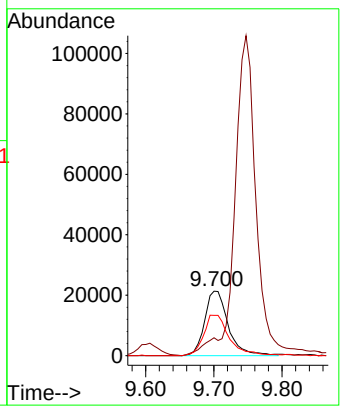
Tgt Ion: 88 Resp: 5155

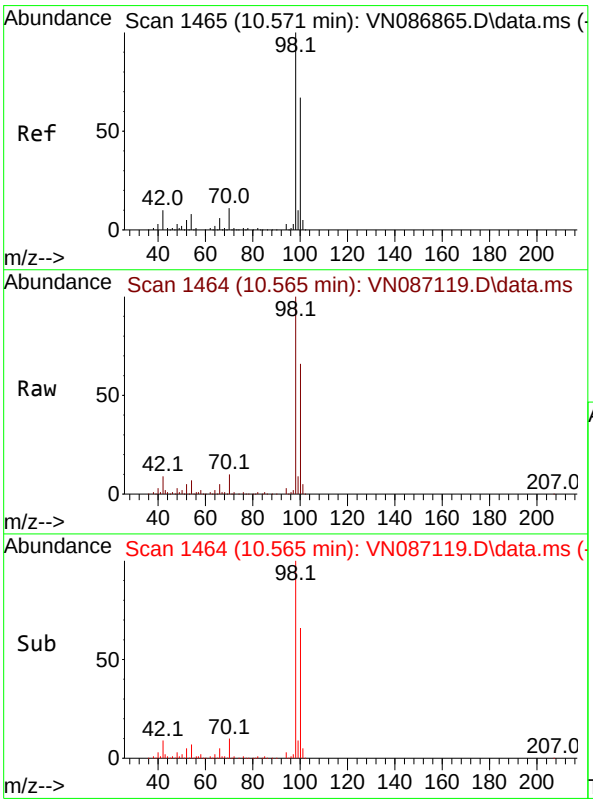
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	68.2	57.7	86.5

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

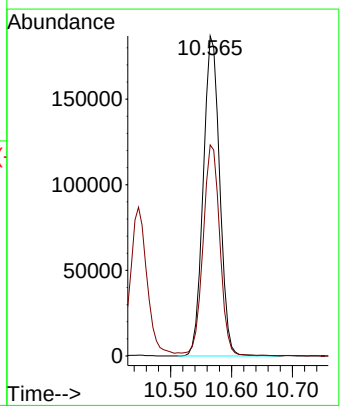


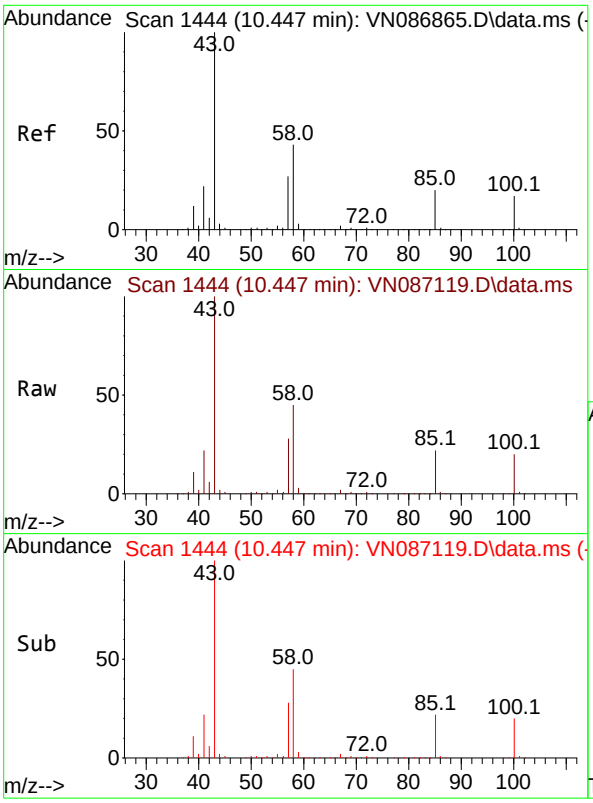


#50
Toluene-d8
Concen: 45.879 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 98 Resp: 349005

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.4	80.0





#51
4-Methyl-2-Pentanone
Concen: 246.814 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

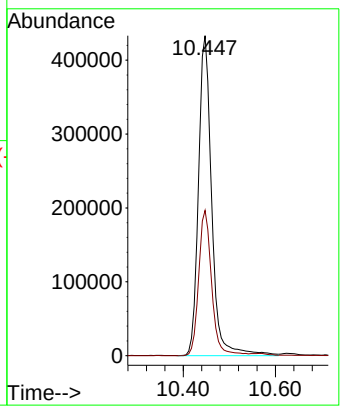
Tgt Ion: 43 Resp: 86926

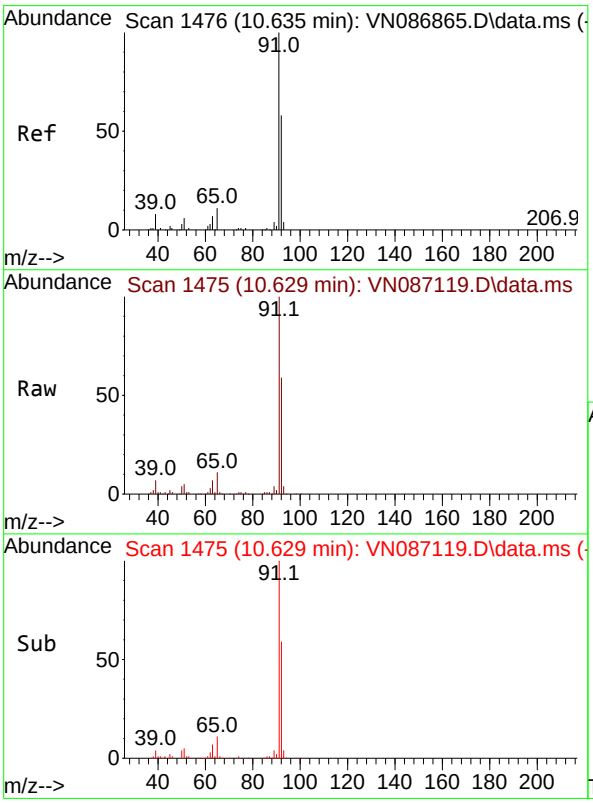
Ion	Ratio	Lower	Upper
43	100		
58	44.4	34.2	51.4

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

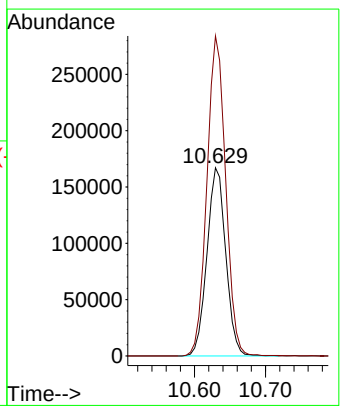


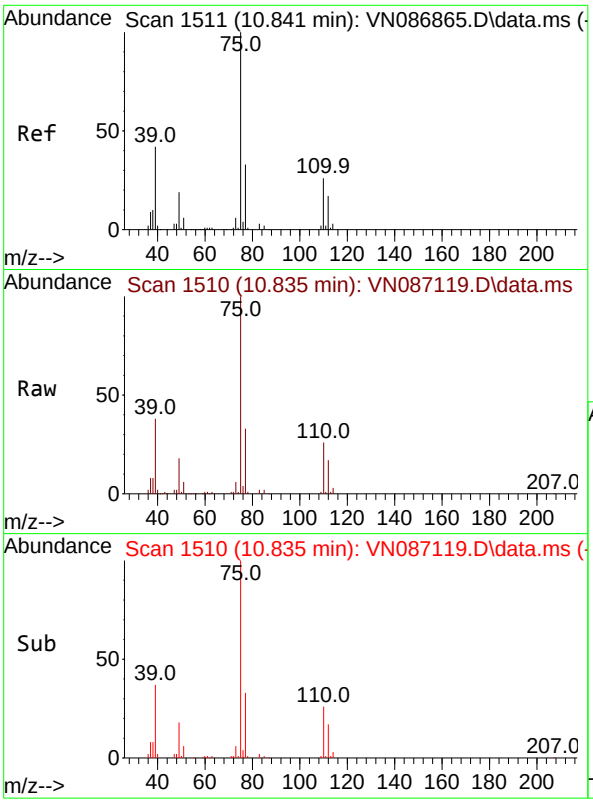


#52
Toluene
Concen: 53.678 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 92 Resp: 307149

Ion	Ratio	Lower	Upper
92	100		
91	169.6	136.5	204.7

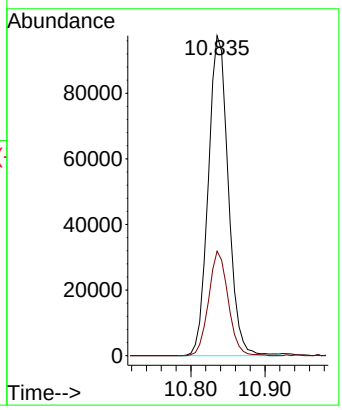




#53
t-1,3-Dichloropropene
Concen: 52.551 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 75 Resp: 18293

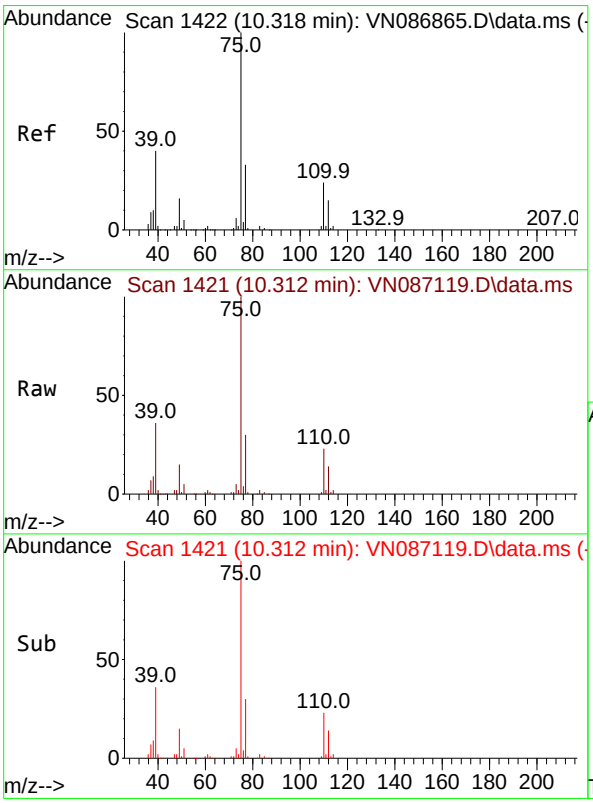
Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.4	39.6



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

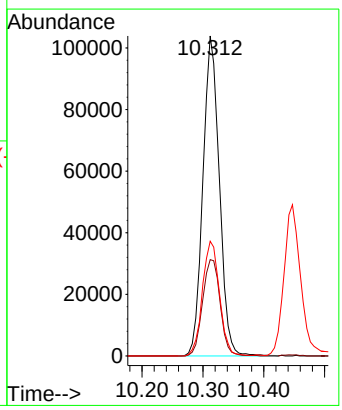
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

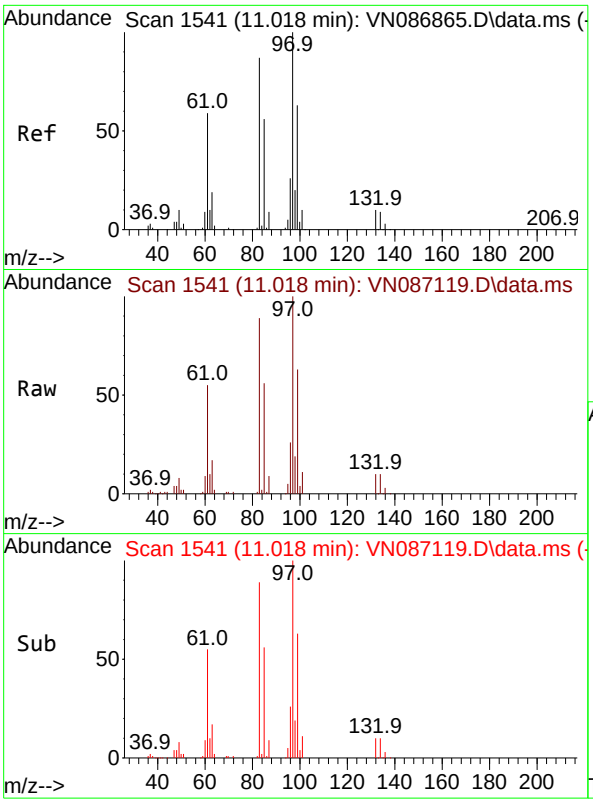


#54
cis-1,3-Dichloropropene
Concen: 52.369 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 75 Resp: 195053

Ion	Ratio	Lower	Upper
75	100		
77	30.1	26.2	39.4
39	35.9	32.3	48.5

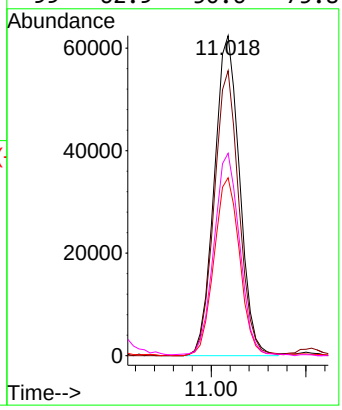




#55
1,1,2-Trichloroethane
Concen: 52.683 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 97 Resp: 11599

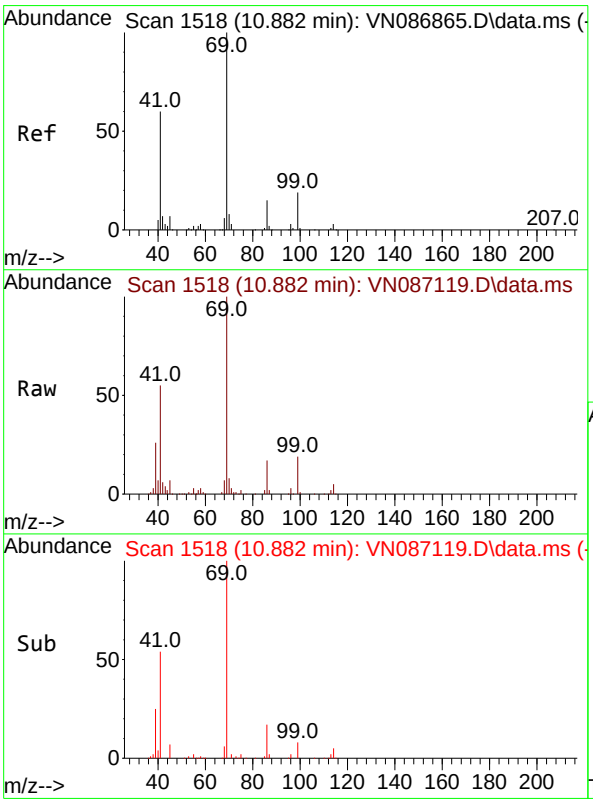
Ion	Ratio	Lower	Upper
97	100		
83	89.0	69.7	104.5
85	55.6	45.1	67.7
99	62.9	50.6	75.8



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

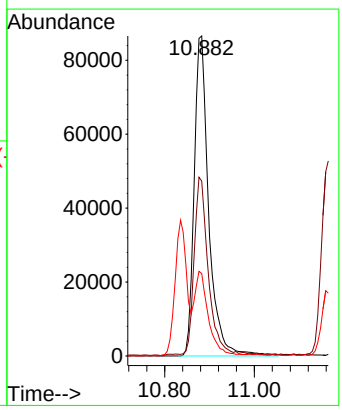
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

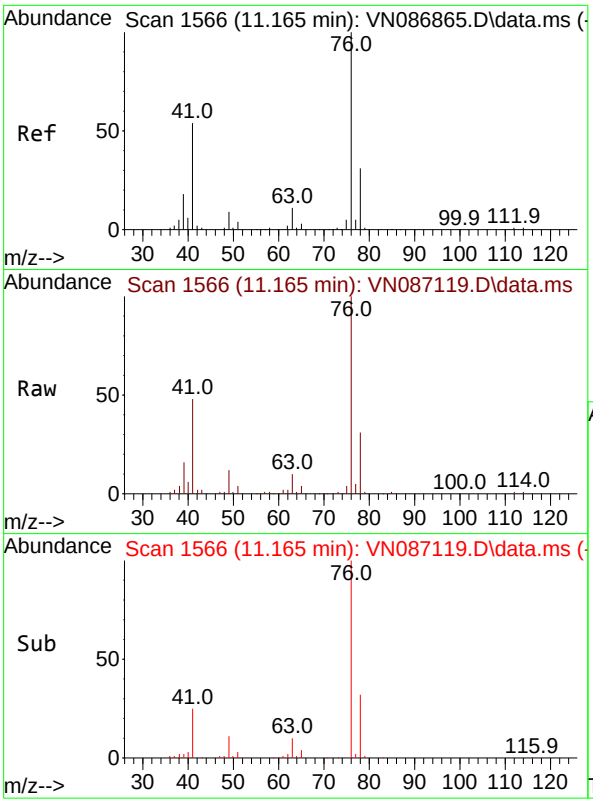


#56
Ethyl methacrylate
Concen: 55.602 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 69 Resp: 194990

Ion	Ratio	Lower	Upper
69	100		
41	55.2	47.2	70.8
39	24.4	23.0	34.6

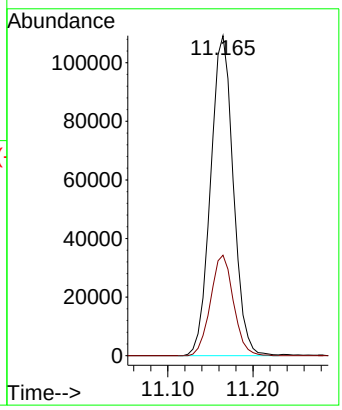




#57
1,3-Dichloropropane
Concen: 53.055 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 76 Resp: 20264

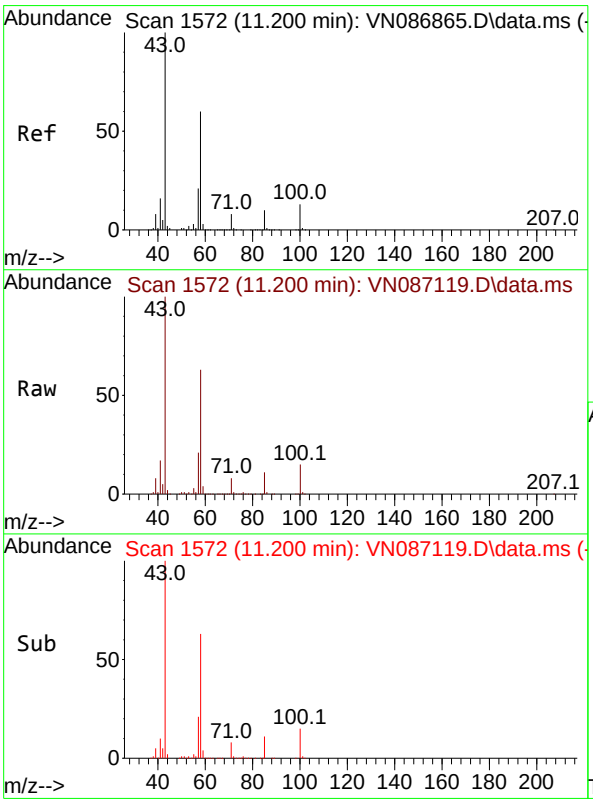
Ion	Ratio	Lower	Upper
76	100		
78	31.7	25.3	37.9



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

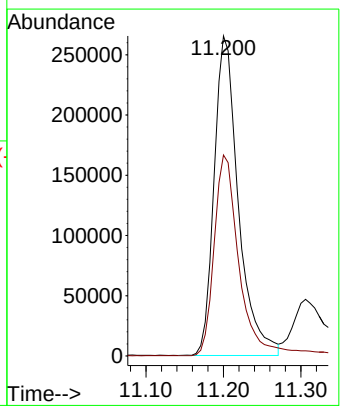
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

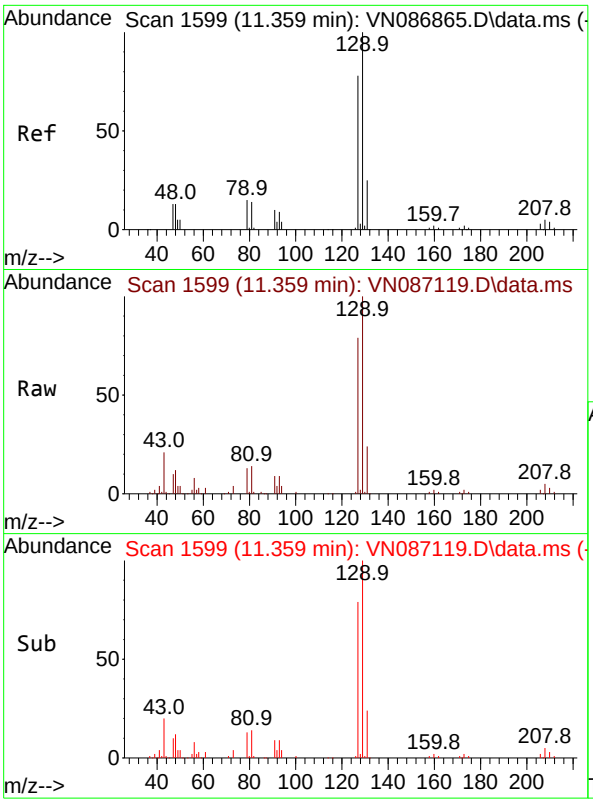


#59
2-Hexanone
Concen: 254.185 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 43 Resp: 576643

Ion	Ratio	Lower	Upper
43	100		
58	66.0	30.4	91.3

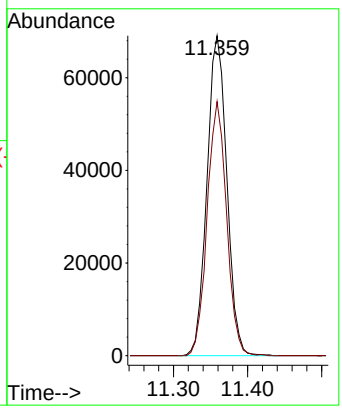




#60
Dibromochloromethane
Concen: 56.000 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:129 Resp: 12846

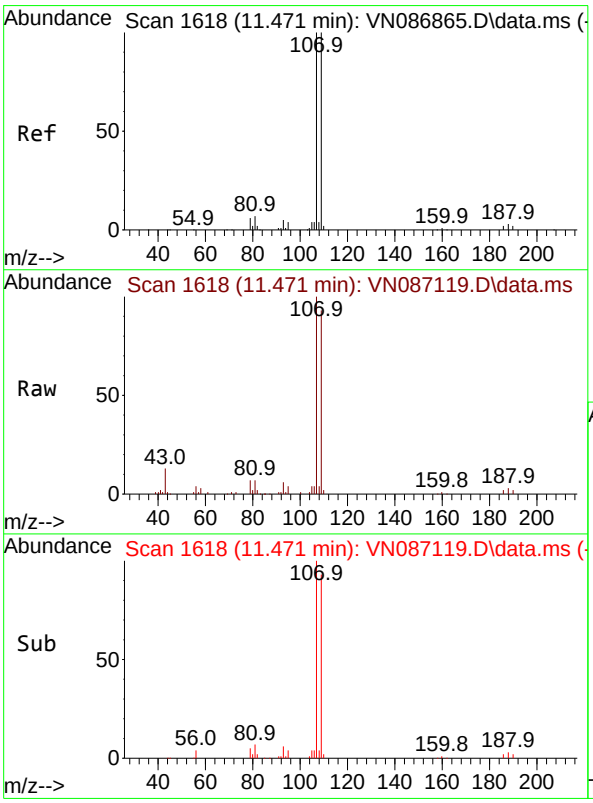
Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	115.8



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

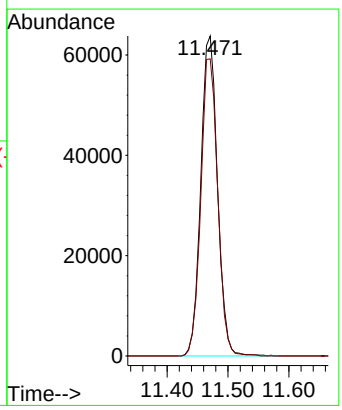
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

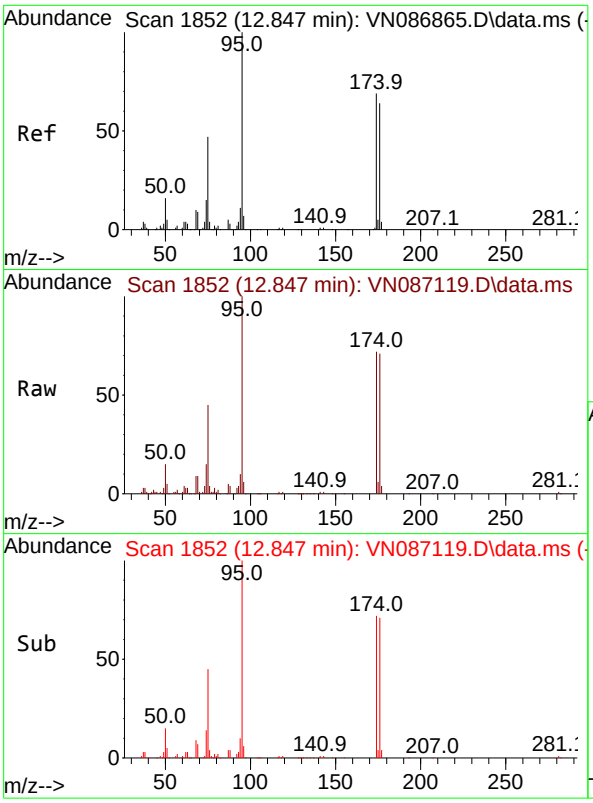


#61
1,2-Dibromoethane
Concen: 53.793 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:107 Resp: 121399

Ion	Ratio	Lower	Upper
107	100		
109	94.3	76.3	114.5

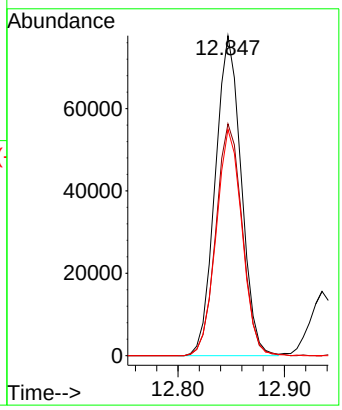




#62
4-Bromofluorobenzene
Concen: 46.584 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 95 Resp: 13165

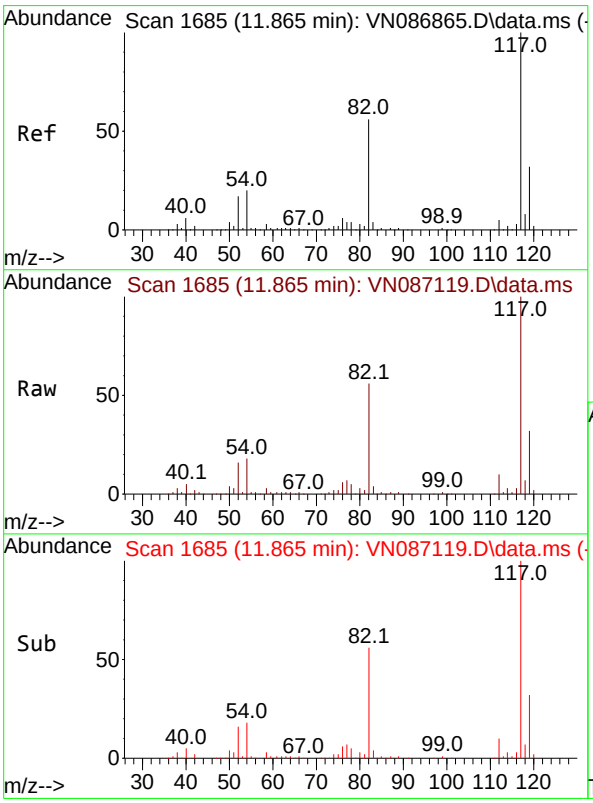
Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	141.8
176	70.7	0.0	132.6



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations APPROVED

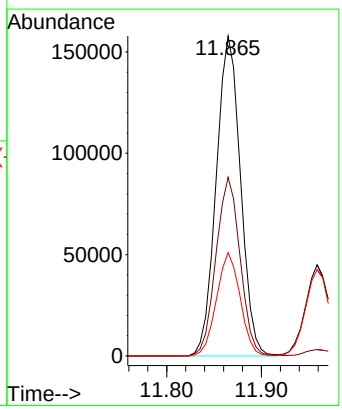
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

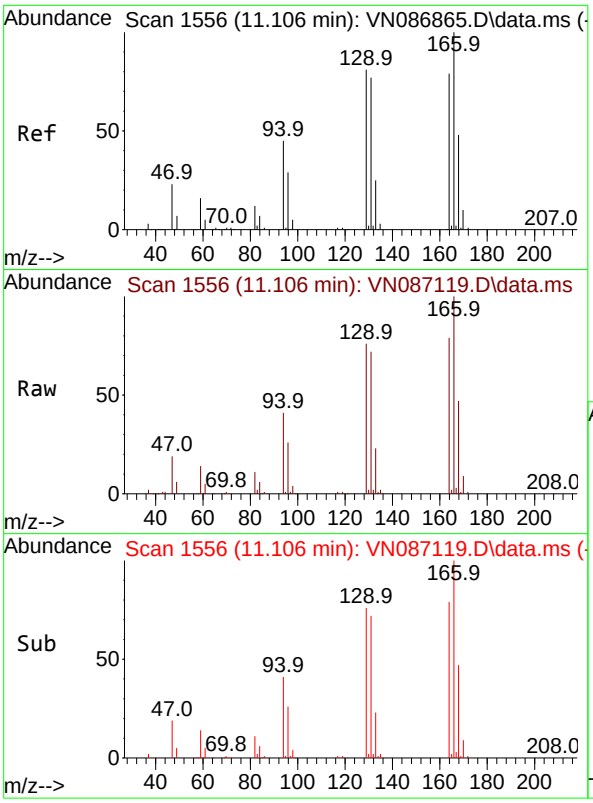


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:117 Resp: 281966

Ion	Ratio	Lower	Upper
117	100		
82	55.8	44.6	67.0
119	32.3	25.5	38.3

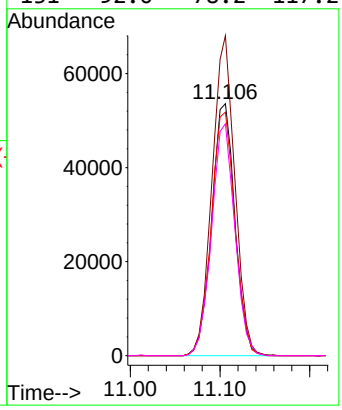




#64
Tetrachloroethene
Concen: 54.082 ug/l
RT: 11.106 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:164 Resp: 9650

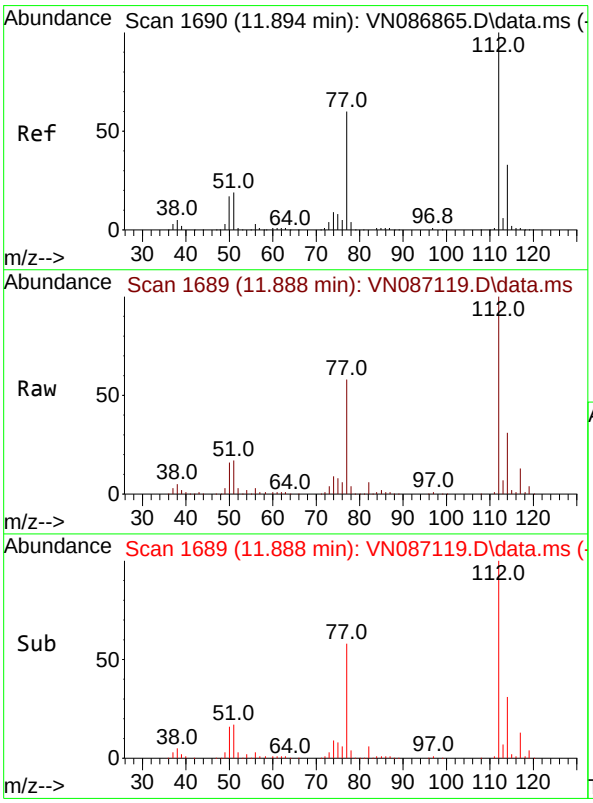
Ion	Ratio	Lower	Upper
164	100		
166	127.0	101.8	152.8
129	96.6	83.0	124.4
131	92.0	78.2	117.2



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

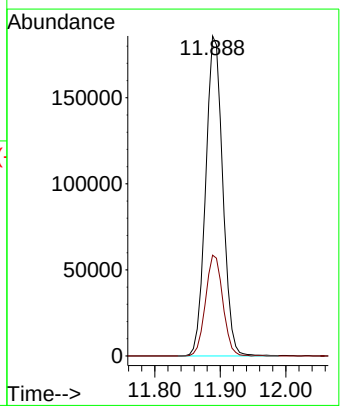
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

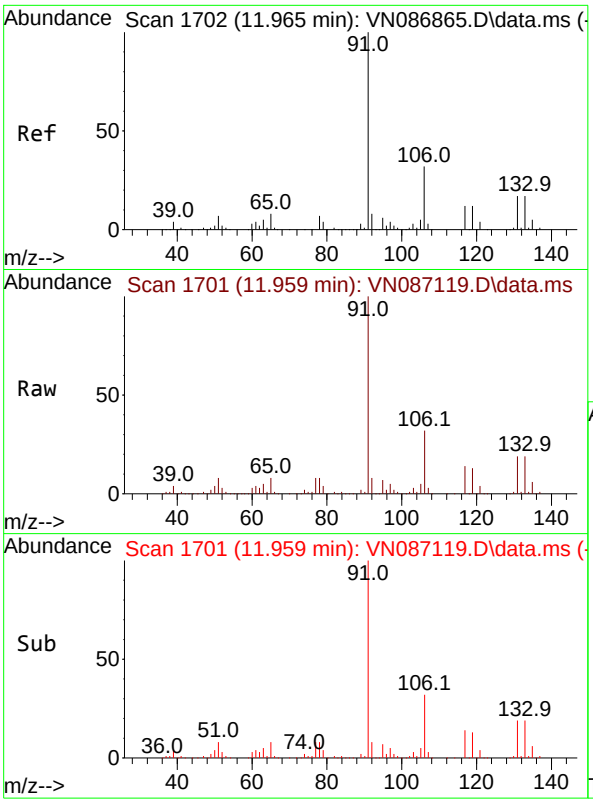


#65
Chlorobenzene
Concen: 54.089 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:112 Resp: 336372

Ion	Ratio	Lower	Upper
112	100		
114	31.5	26.2	39.2

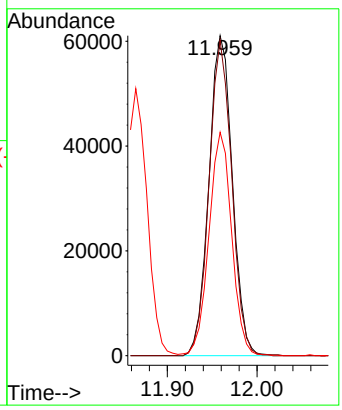




#66
1,1,1,2-Tetrachloroethane
Concen: 55.501 ug/l
RT: 11.959 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:131 Resp: 11094

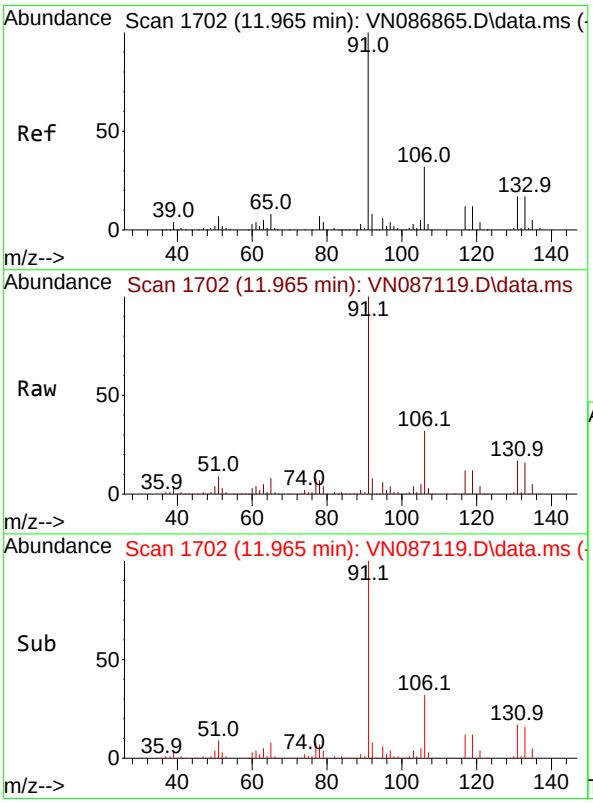
Ion	Ratio	Lower	Upper
131	100		
133	95.4	48.3	144.8
119	67.6	34.0	101.8



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

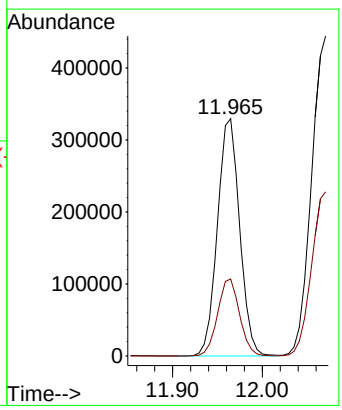
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

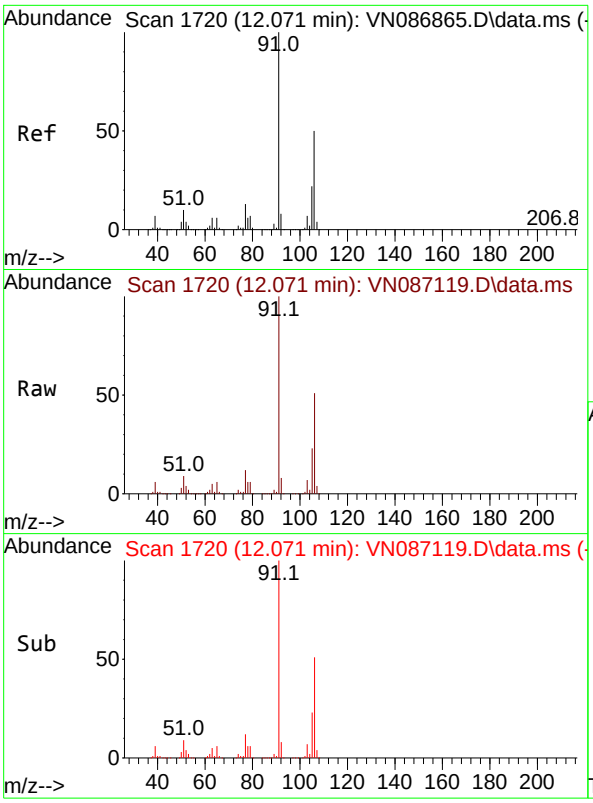


#67
Ethyl Benzene
Concen: 52.935 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 91 Resp: 567034

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.4	38.2





#68
m/p-Xylenes
Concen: 110.005 ug/l
RT: 12.071 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

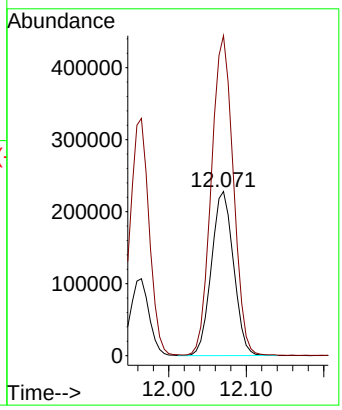
Tgt Ion:106 Resp: 45107

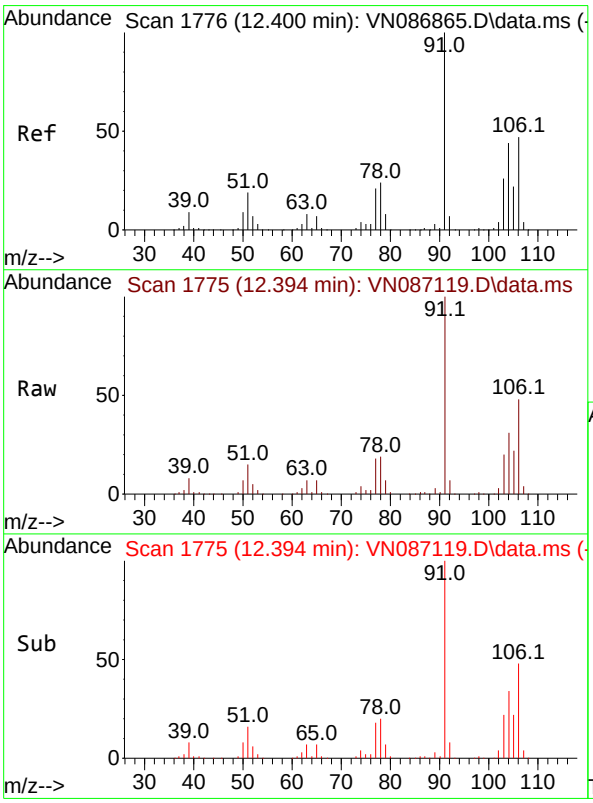
Ion	Ratio	Lower	Upper
106	100		
91	193.9	159.4	239.0

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

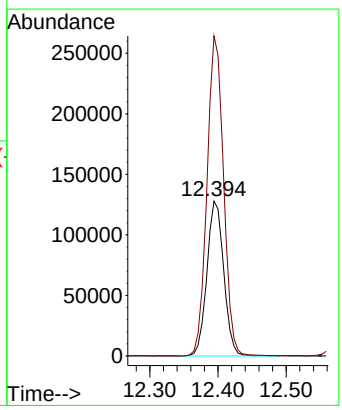


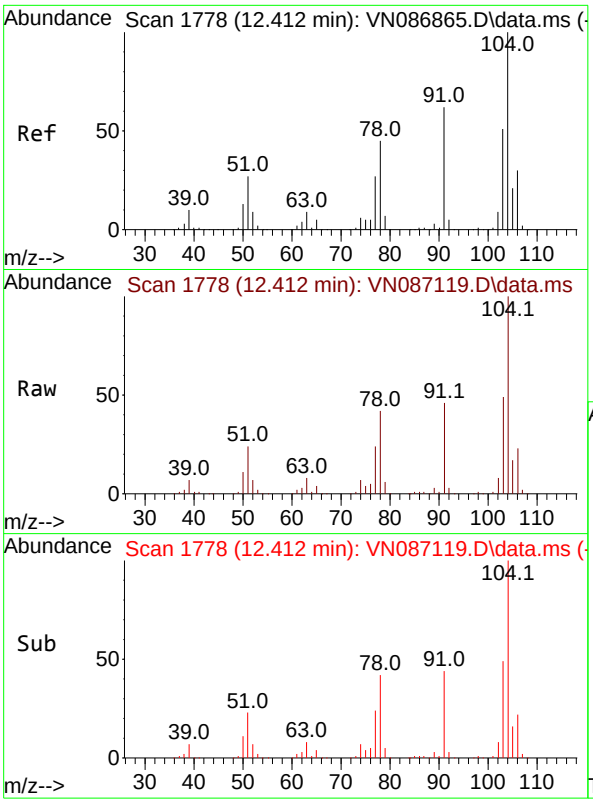


#69
o-Xylene
Concen: 55.857 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:106 Resp: 219362

Ion	Ratio	Lower	Upper
106	100		
91	204.1	106.1	318.1

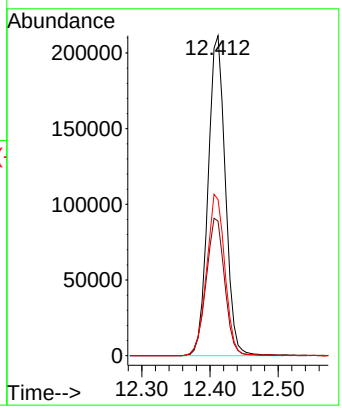




#70
Styrene
Concen: 55.538 ug/l
RT: 12.412 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:104 Resp: 37322

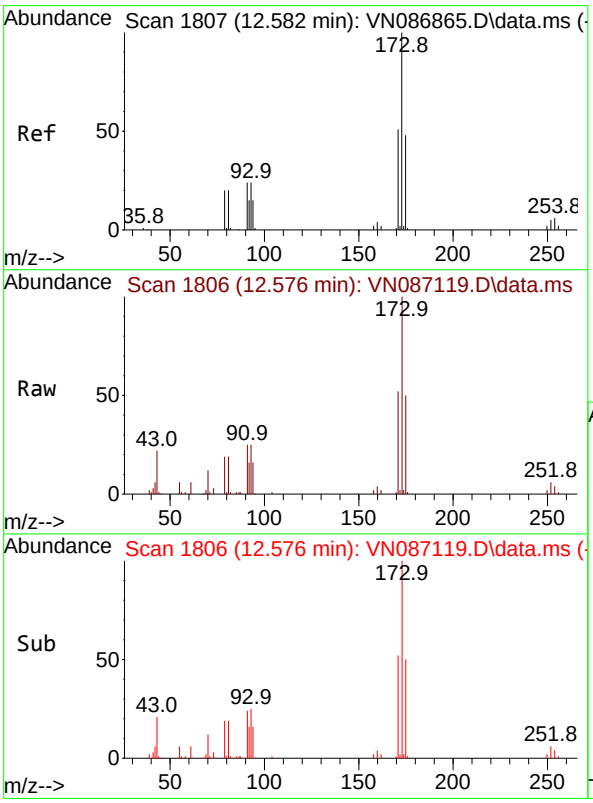
Ion	Ratio	Lower	Upper
104	100		
78	46.3	38.5	57.7
103	53.4	43.1	64.7



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

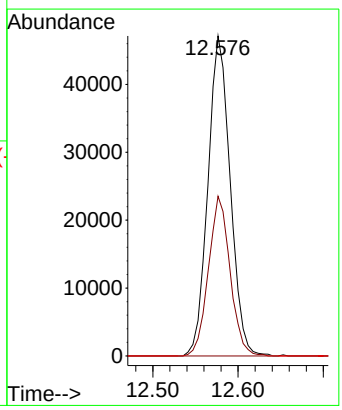
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

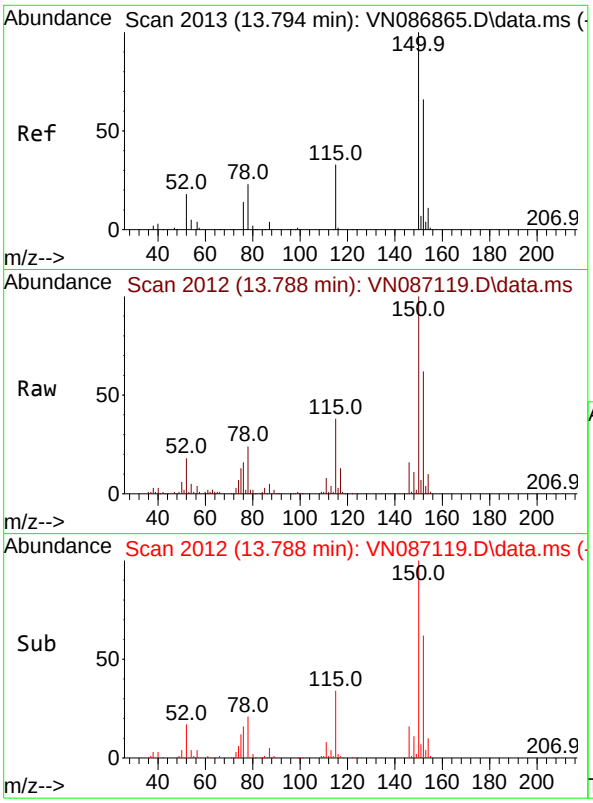


#71
Bromoform
Concen: 57.770 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:173 Resp: 85568

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.1	72.4
254	0.0	0.0	0.0

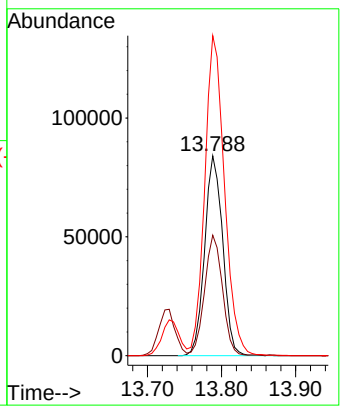




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:152 Resp: 14217

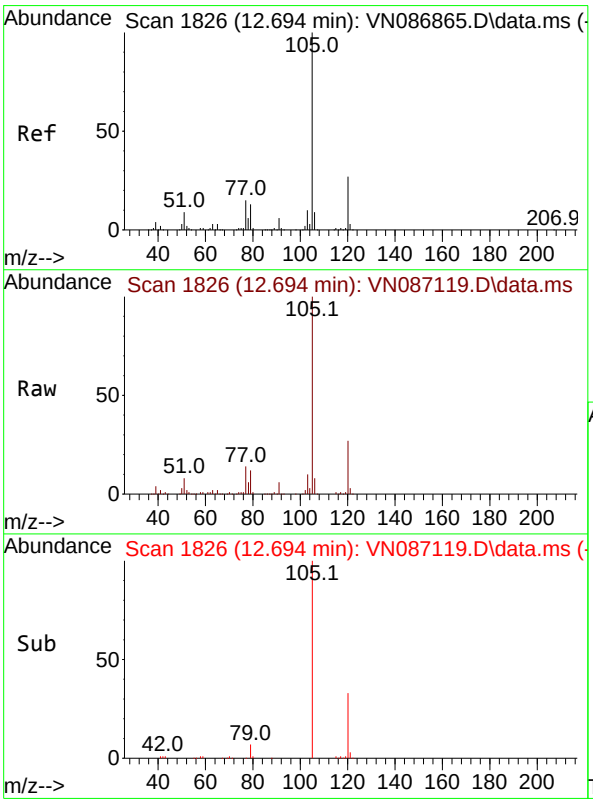
Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.1	90.5
150	175.3	0.0	345.0



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

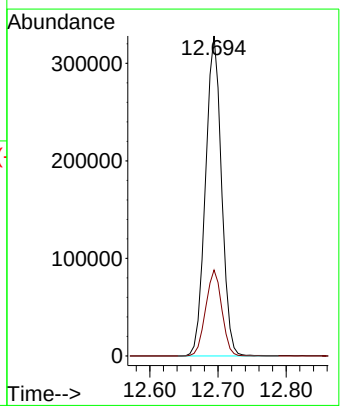
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

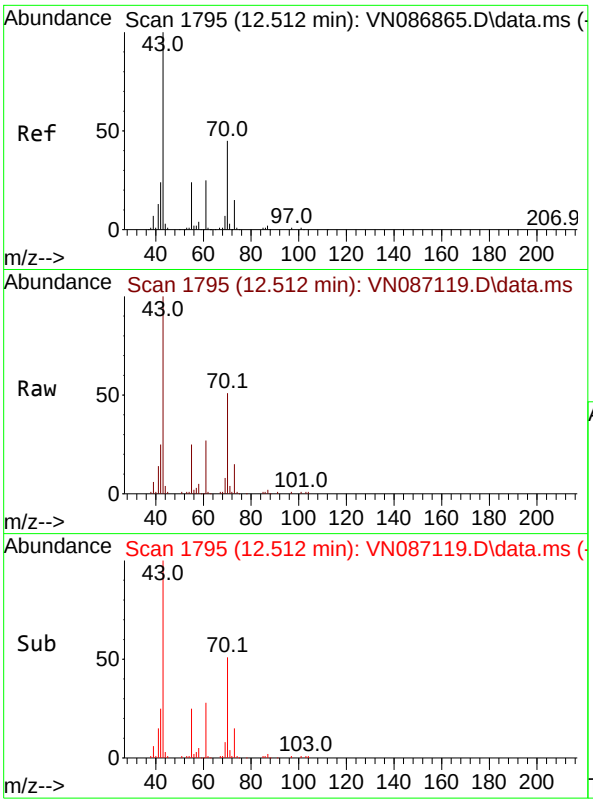


#73
Isopropylbenzene
Concen: 51.746 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:105 Resp: 535971

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.5	40.4

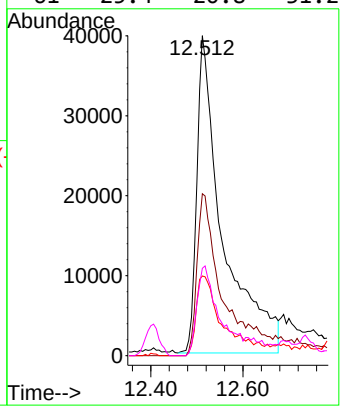




#74
N-amyl acetate
Concen: 42.823 ug/l
RT: 12.512 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 43 Resp: 15499

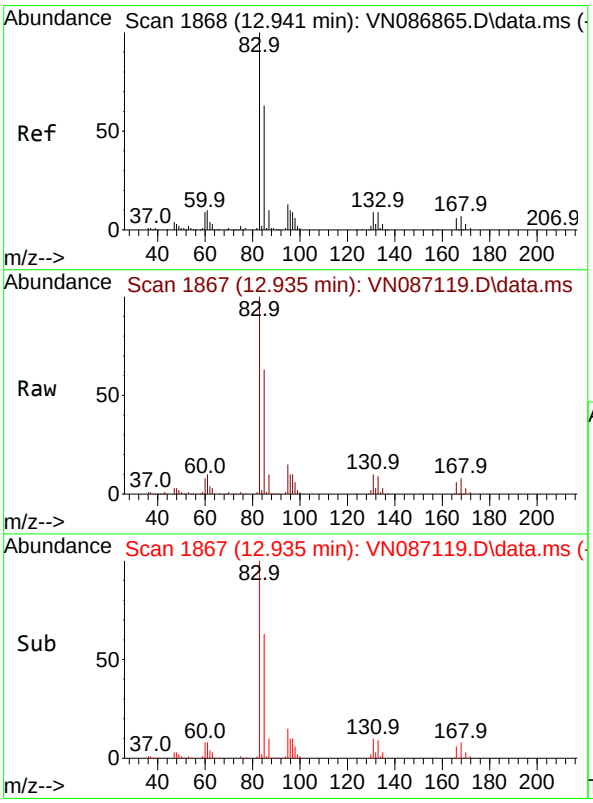
Ion	Ratio	Lower	Upper
43	100		
70	50.6	37.6	56.4
55	24.6	19.0	28.6
61	25.4	20.8	31.2



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

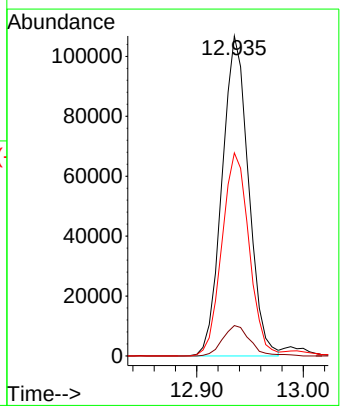
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

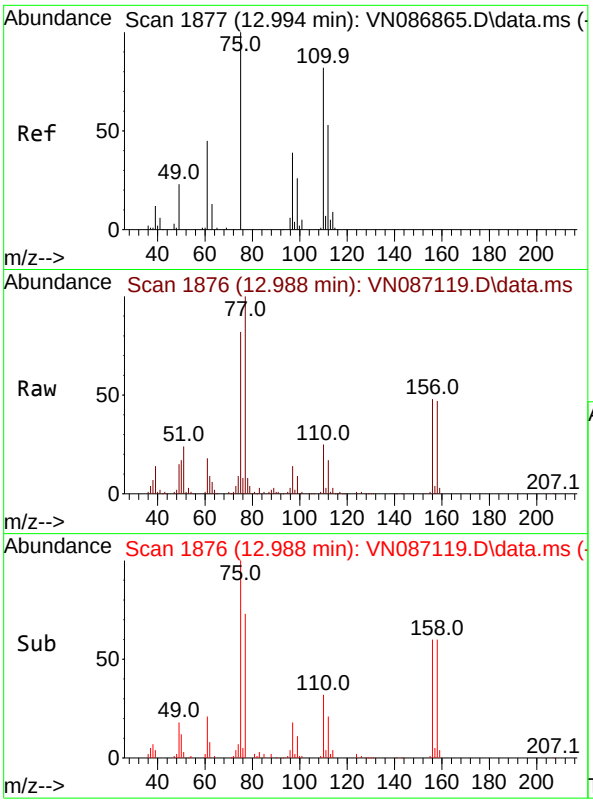


#75
1,1,2,2-Tetrachloroethane
Concen: 52.467 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 83 Resp: 184105

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.9	14.7
85	65.4	32.0	96.0





#76
1,2,3-Trichloropropane
Concen: 51.185 ug/l m
RT: 12.988 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

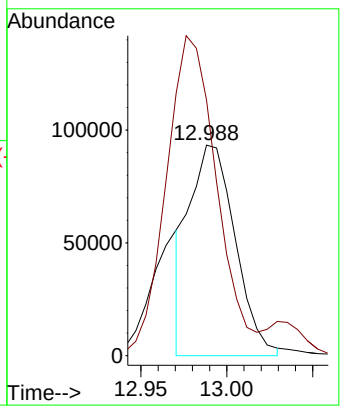
Tgt Ion: 75 Resp: 17298

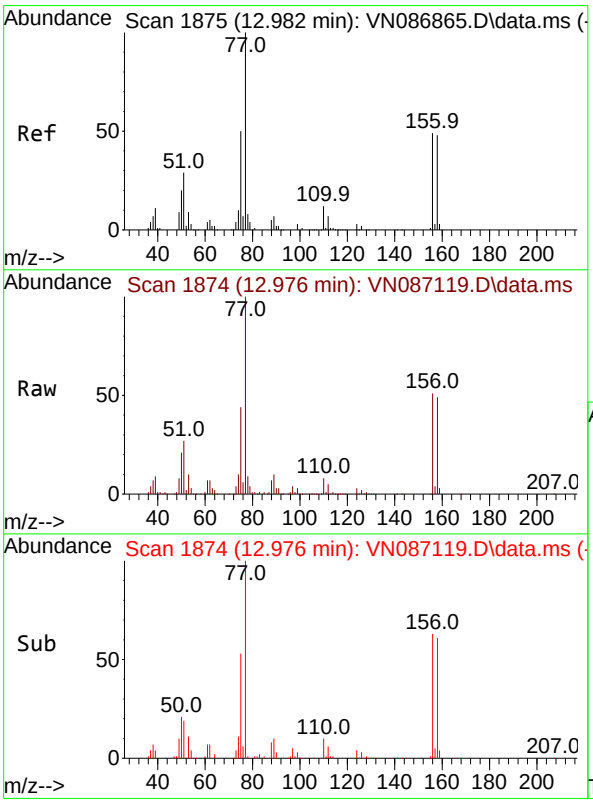
Ion	Ratio	Lower	Upper
75	100		
77	167.8	79.3	237.9

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

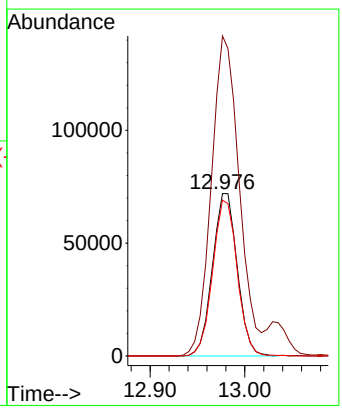


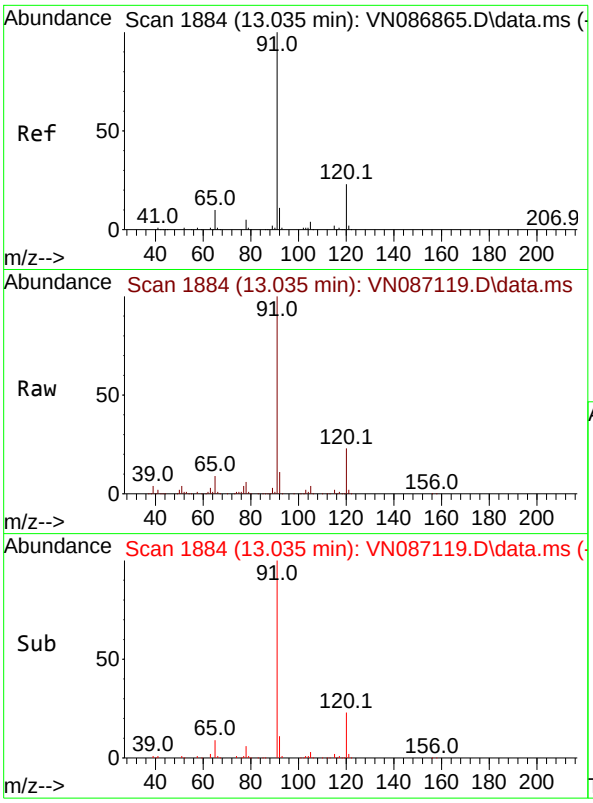


#77
Bromobenzene
Concen: 54.964 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:156 Resp: 130562

Ion	Ratio	Lower	Upper
156	100		
77	222.3	117.7	353.1
158	95.5	48.1	144.4





#78
n-propylbenzene
Concen: 49.723 ug/l
RT: 13.035 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

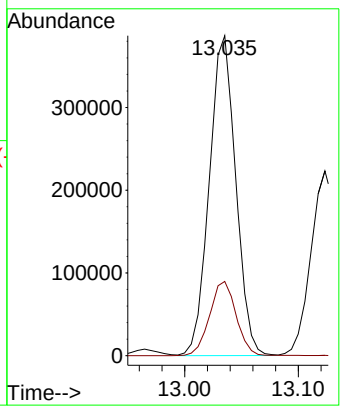
Tgt Ion: 91 Resp: 62589

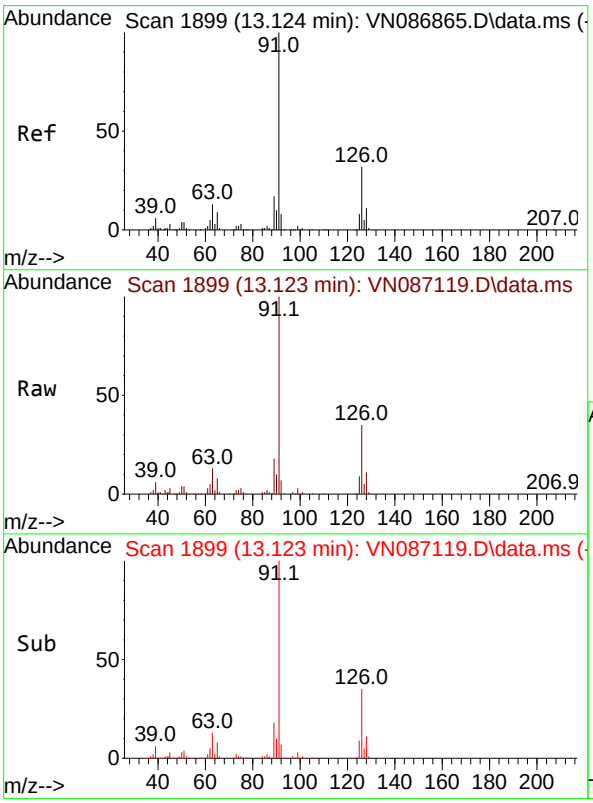
Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.4	34.2

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

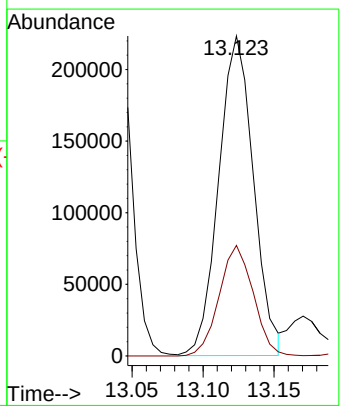


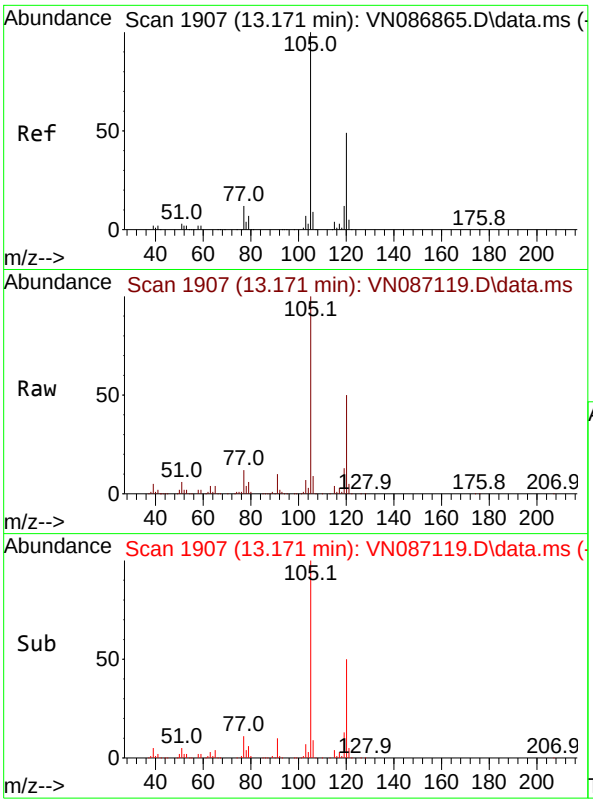


#79
2-Chlorotoluene
Concen: 50.375 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 91 Resp: 380272

Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.2	48.5

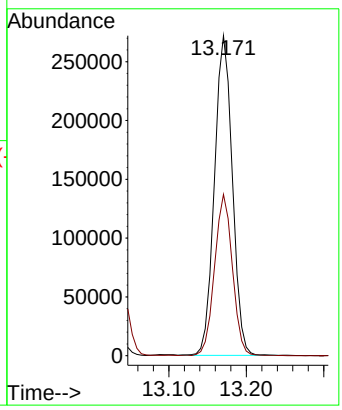




#80
1,3,5-Trimethylbenzene
Concen: 51.145 ug/l
RT: 13.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:105 Resp: 43736

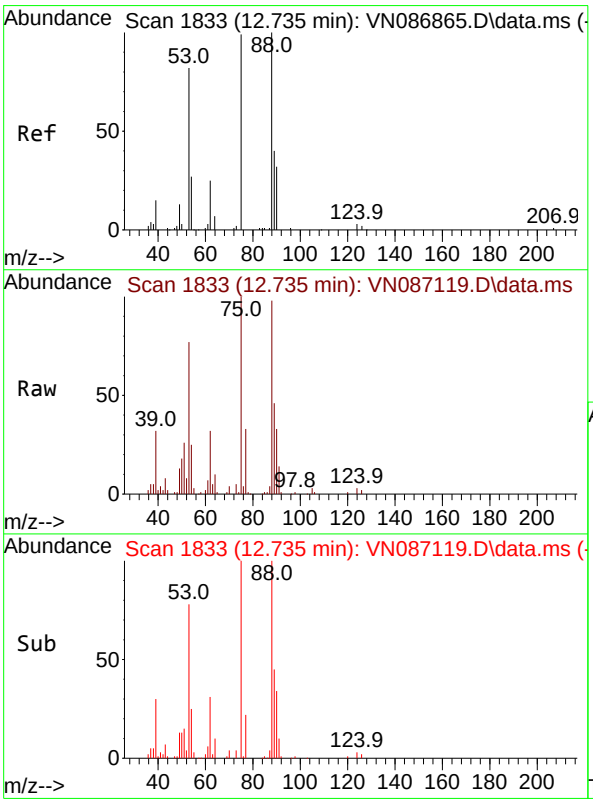
Ion	Ratio	Lower	Upper
105	100		
120	50.3	24.9	74.6



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations APPROVED

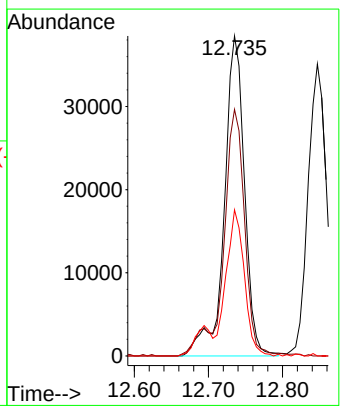
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

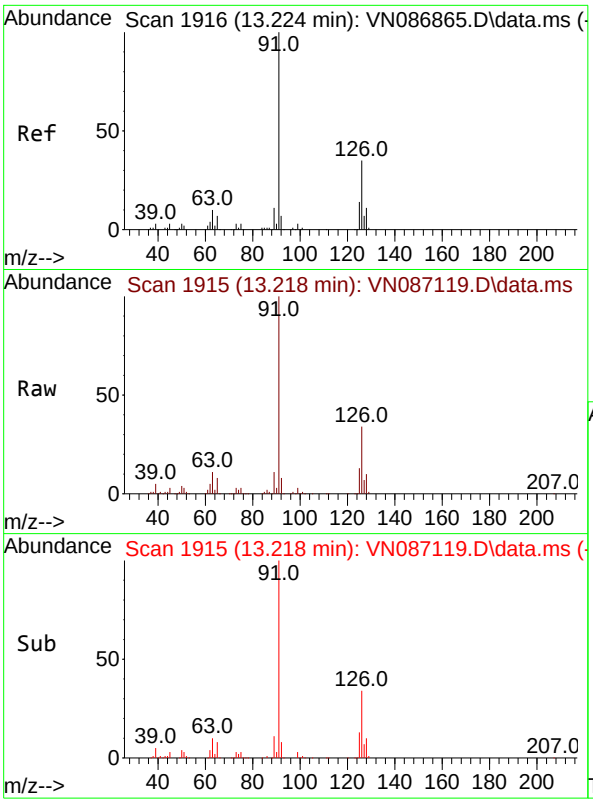


#81
trans-1,4-Dichloro-2-butene
Concen: 49.733 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 75 Resp: 73016

Ion	Ratio	Lower	Upper
75	100		
53	73.2	66.6	99.8
89	41.3	36.7	55.1

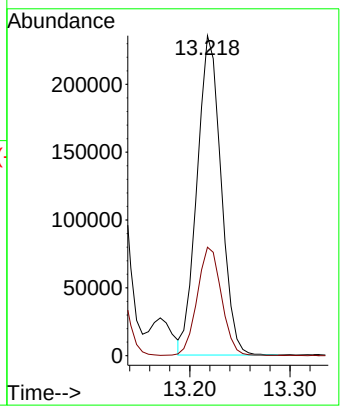




#82
4-Chlorotoluene
Concen: 51.295 ug/l
RT: 13.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 91 Resp: 39180

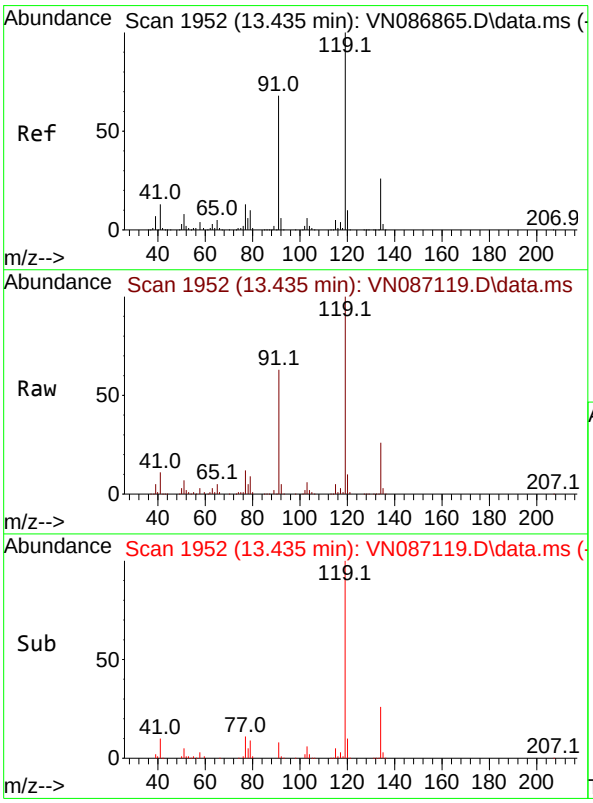
Ion	Ratio	Lower	Upper
91	100		
126	34.7	16.7	50.1



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

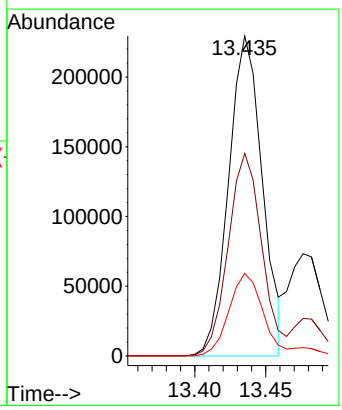
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

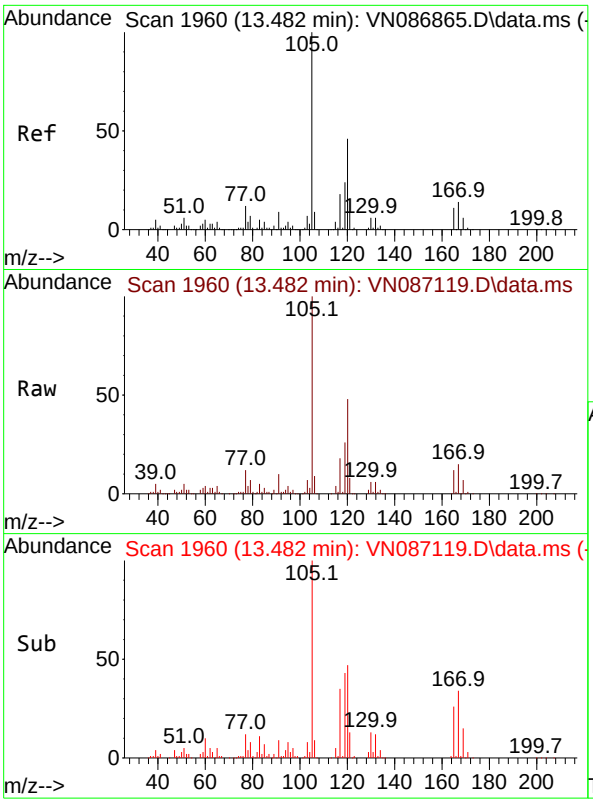


#83
tert-Butylbenzene
Concen: 48.393 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:119 Resp: 378819

Ion	Ratio	Lower	Upper
119	100		
91	63.4	32.1	96.5
134	27.8	13.4	40.1

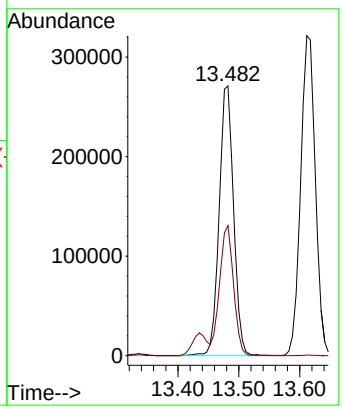




#84
1,2,4-Trimethylbenzene
Concen: 52.009 ug/l
RT: 13.482 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:105 Resp: 44599

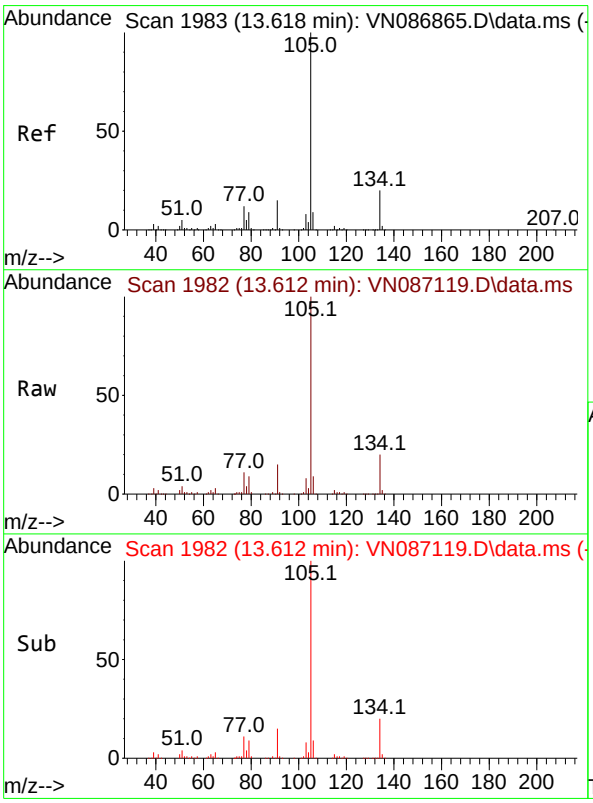
Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.2	69.6



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

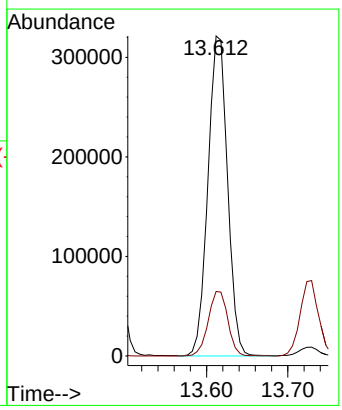
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

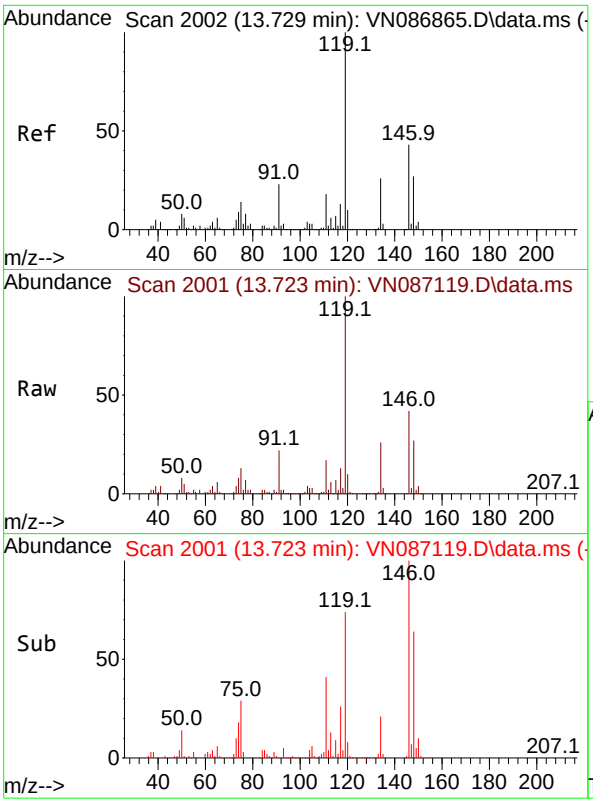


#85
sec-Butylbenzene
Concen: 47.394 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:105 Resp: 538763

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0

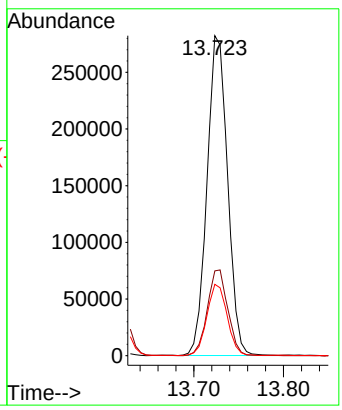




#86
p-Isopropyltoluene
Concen: 47.811 ug/l
RT: 13.723 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:119 Resp: 44928

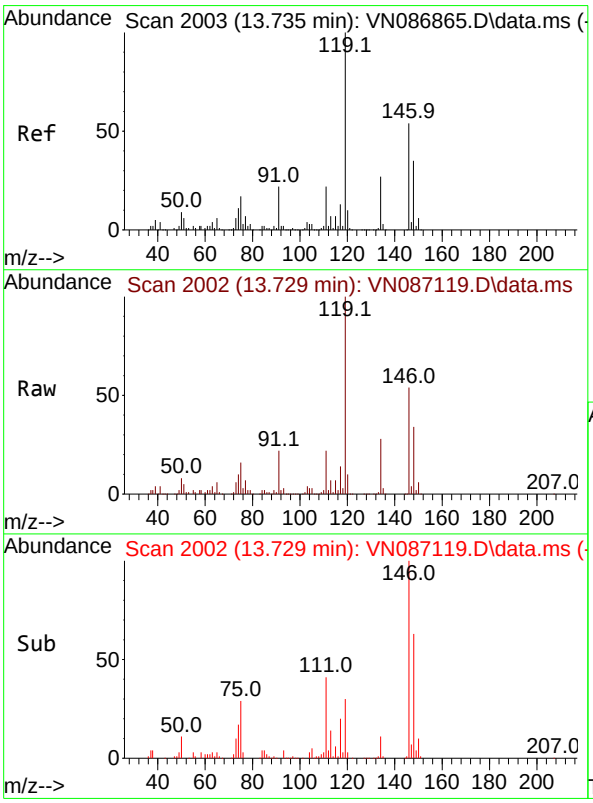
Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.5	40.4
91	21.9	11.5	34.4



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

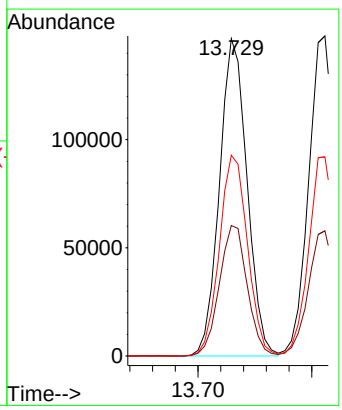
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

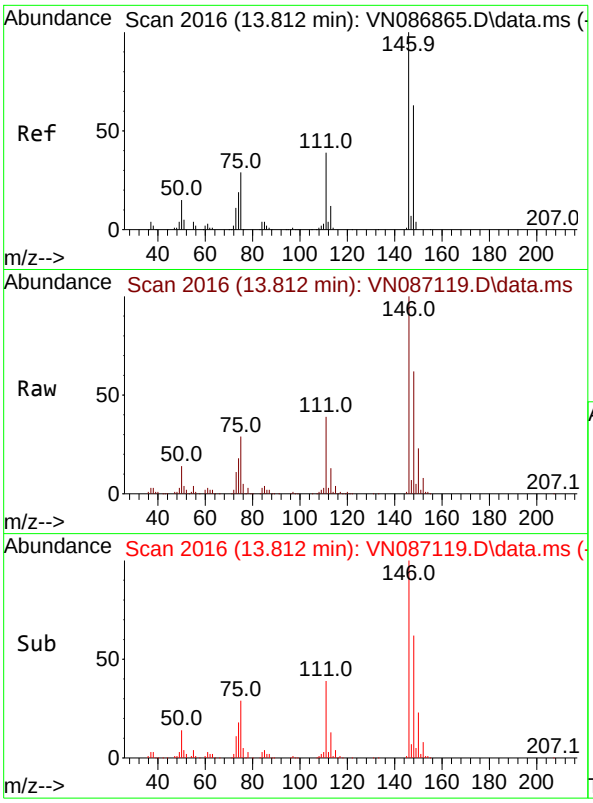


#87
1,3-Dichlorobenzene
Concen: 52.890 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:146 Resp: 247185

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.9	62.8
148	64.5	32.0	96.2

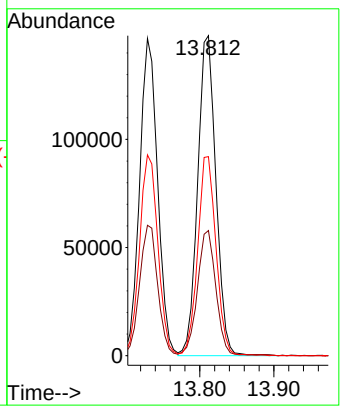




#88
1,4-Dichlorobenzene
Concen: 53.165 ug/l
RT: 13.812 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:146 Resp: 25331

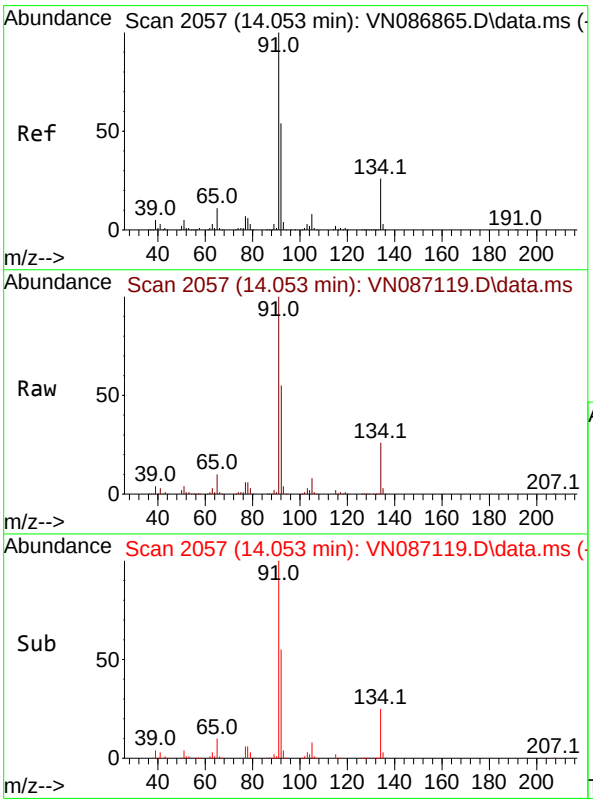
Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.9	59.7
148	62.5	31.8	95.4



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

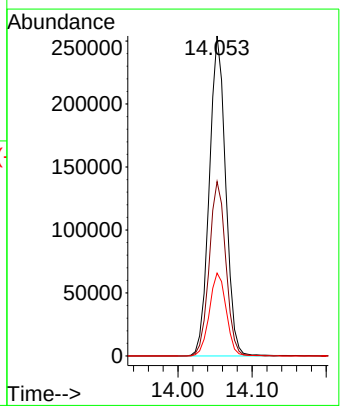
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

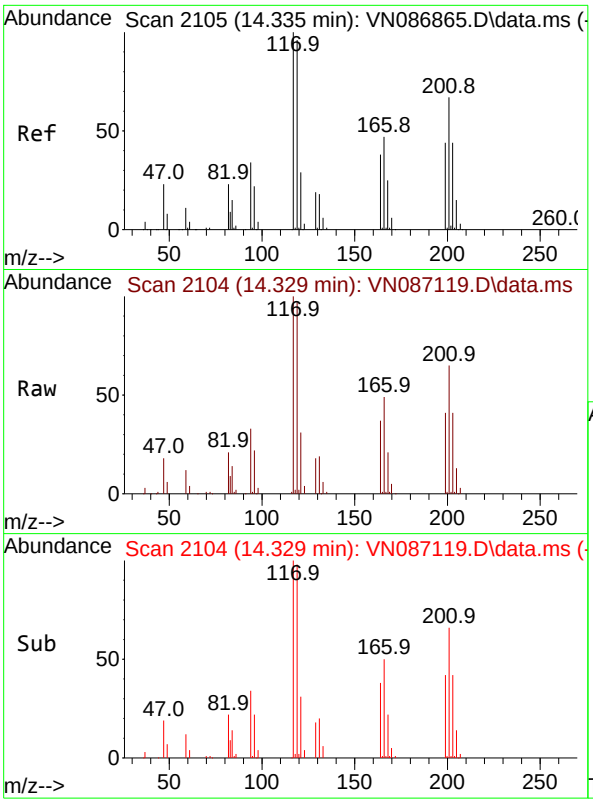


#89
n-Butylbenzene
Concen: 42.752 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 91 Resp: 389128

Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.5	82.4
134	26.6	13.0	39.0

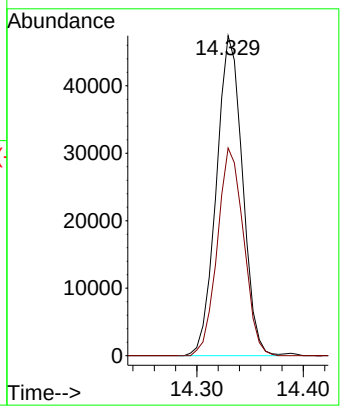




#90
Hexachloroethane
Concen: 50.694 ug/l
RT: 14.329 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:117 Resp: 8074

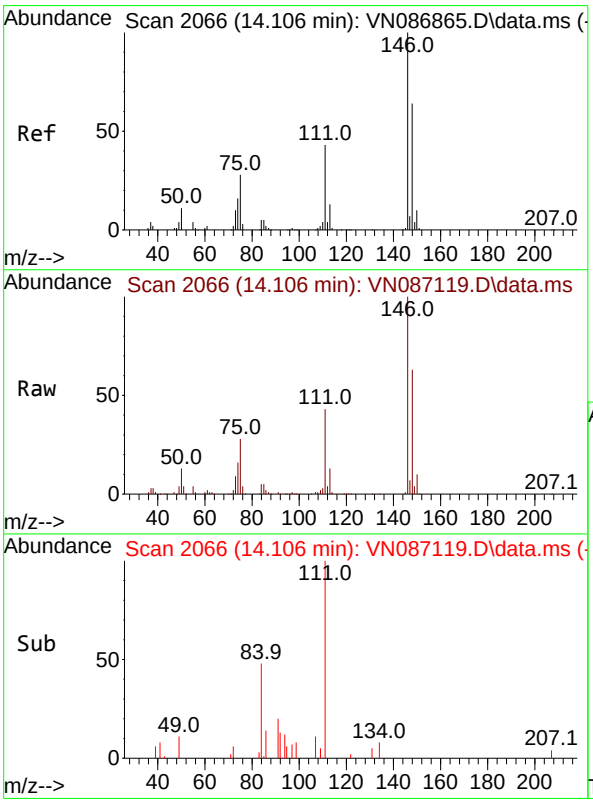
Ion	Ratio	Lower	Upper
117	100		
201	65.5	33.2	99.6



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

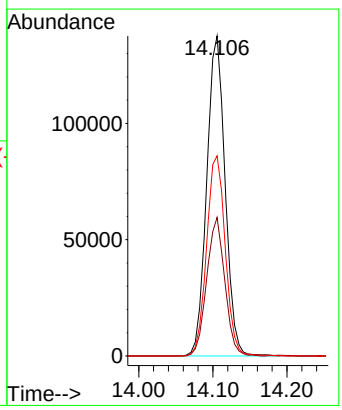
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

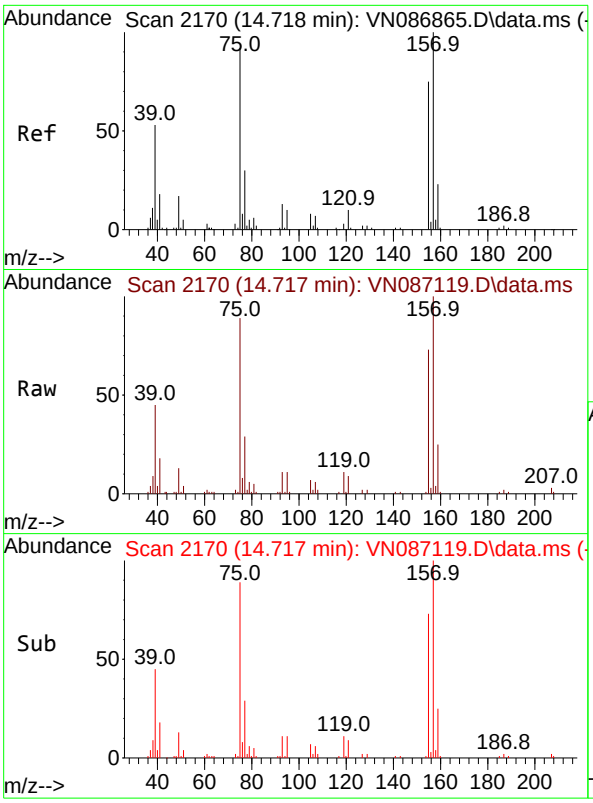


#91
1,2-Dichlorobenzene
Concen: 52.741 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:146 Resp: 236809

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.6	64.6
148	63.6	31.7	95.1

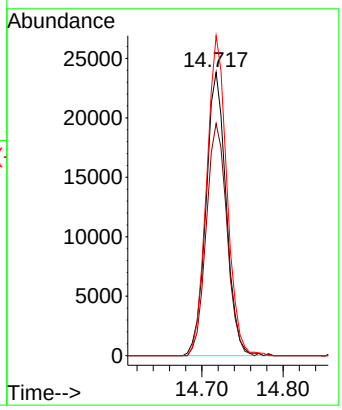




#92
1,2-Dibromo-3-Chloropropane
Concen: 48.981 ug/l
RT: 14.717 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

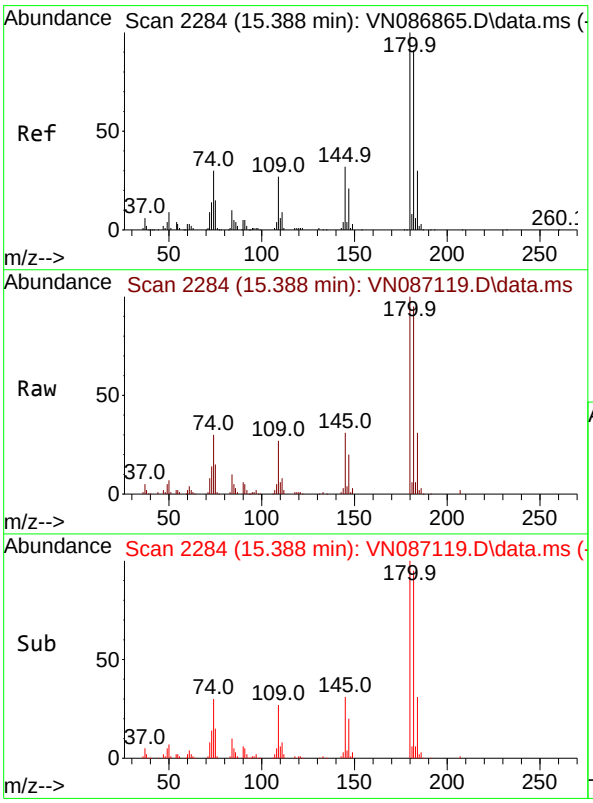
Tgt Ion: 75 Resp: 4110

Ion	Ratio	Lower	Upper
75	100		
155	83.7	41.1	123.4
157	113.3	52.7	158.1



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

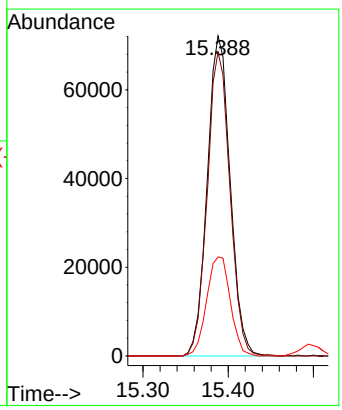
Manual Integrations
APPROVED
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

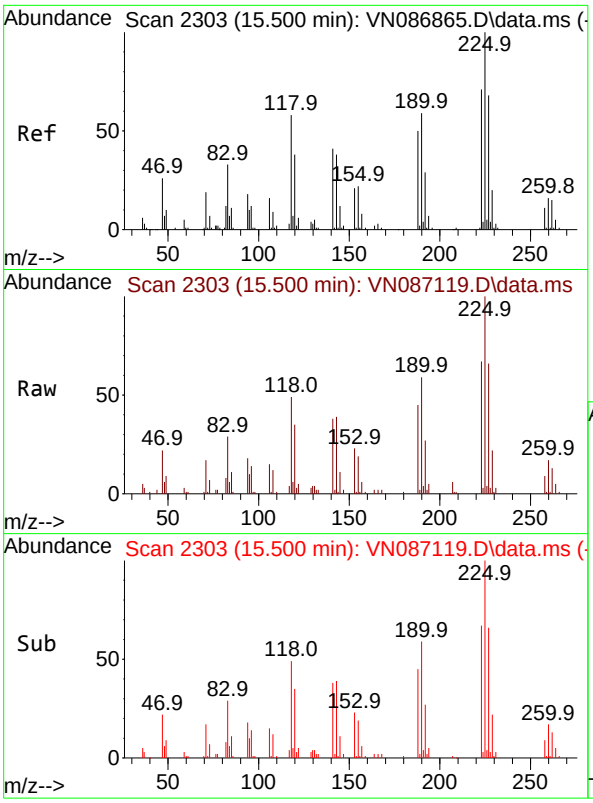


#93
1,2,4-Trichlorobenzene
Concen: 47.005 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:180 Resp: 134773

Ion	Ratio	Lower	Upper
180	100		
182	93.9	46.9	140.7
145	32.0	16.0	47.9

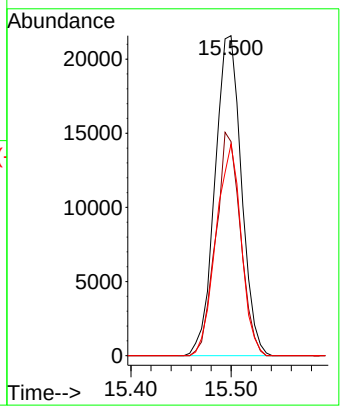




#94
Hexachlorobutadiene
Concen: 37.040 ug/l
RT: 15.500 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:225 Resp: 3956

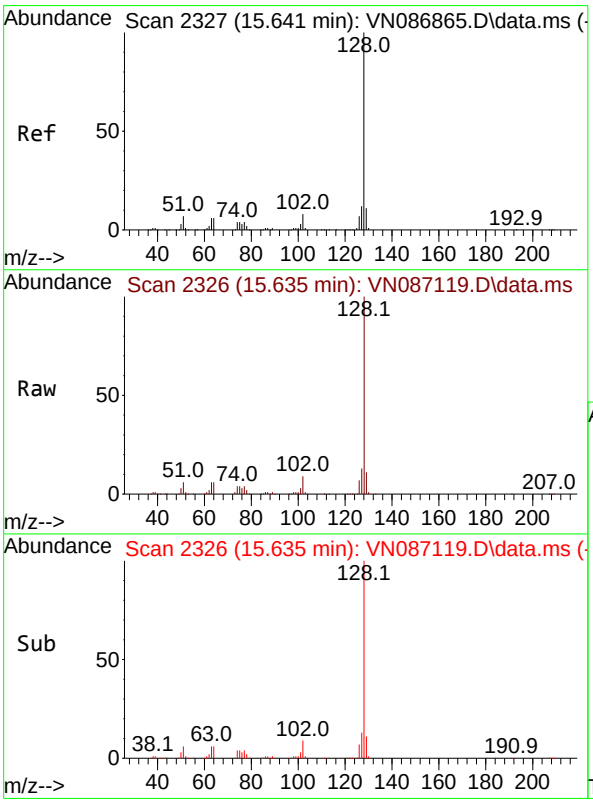
Ion	Ratio	Lower	Upper
225	100		
223	65.2	33.5	100.4
227	62.8	31.1	93.5



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

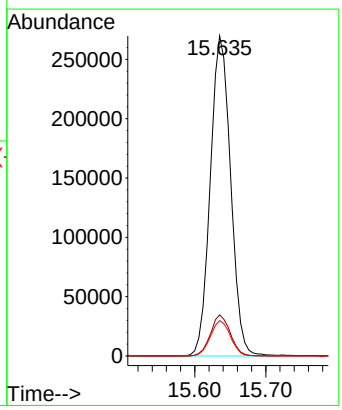
Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

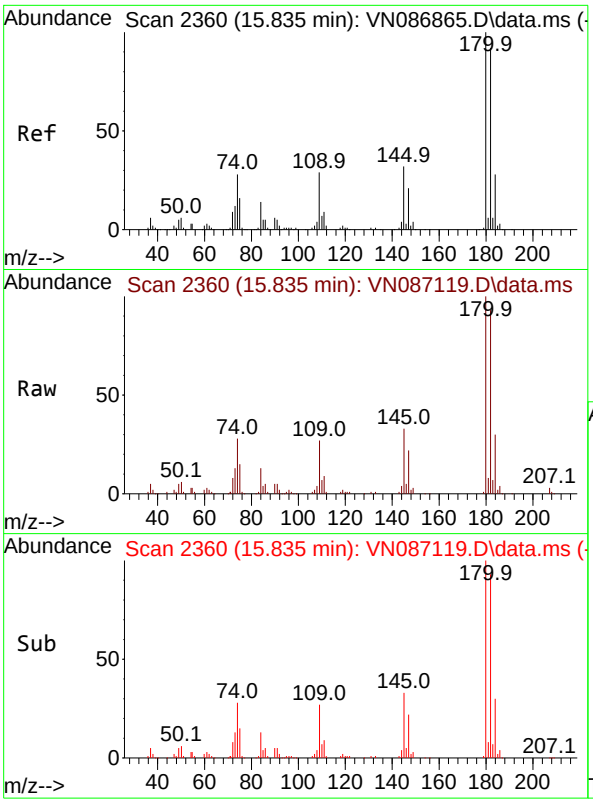


#95
Naphthalene
Concen: 50.223 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:128 Resp: 535992

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	10.9	8.8	13.2

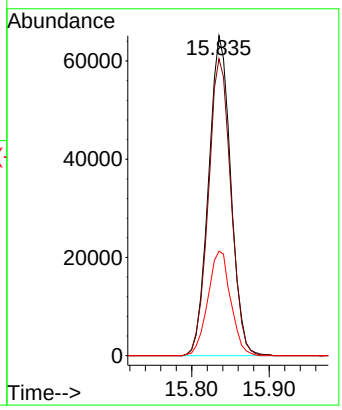




#96
1,2,3-Trichlorobenzene
Concen: 45.564 ug/l
RT: 15.835 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:180 Resp: 12979

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.0	141.0
145	33.6	16.6	49.8



Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/20/2025
Supervised By :Mahesh Dadoda 06/21/2025

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

Manual Integration Report

Sequence:	vn060625	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN086862.D	1,1,2-Trichlorotrifluoroethane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,4-Dichlorobenzene	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	2-Hexanone	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	N-amyl acetate	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	N-amyl acetate	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC020	VN086864.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:19 AM	MMDadoda	6/9/2025 1:13:21 PM	Peak Integrated by Software
VSTDICCC050	VN086865.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:25 AM	MMDadoda	6/9/2025 1:13:23 PM	Peak Integrated by Software
VSTDICC100	VN086866.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:29 AM	MMDadoda	6/9/2025 1:13:28 PM	Peak Integrated by Software
VSTDICC150	VN086867.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:34 AM	MMDadoda	6/9/2025 1:13:30 PM	Peak Integrated by Software
VSTDICV050	VN086869.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:38 AM	MMDadoda	6/9/2025 1:13:34 PM	Peak Integrated by Software
VSTDCCC050	VN086886.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:55 AM	MMDadoda	6/9/2025 1:13:44 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	vn060625	Instrument	MSVOA_n

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:	VN061725	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN087045.D	1,2,3-Trichloropropane	SAM	6/18/2025 2:44:22 PM	MMDadoda	6/18/2025 5:31:24 PM	Peak Integrated by Software
VSTDCCC050	VN087045.D	trans-1,4-Dichloro-2-but ene	SAM	6/18/2025 2:44:22 PM	MMDadoda	6/18/2025 5:31:24 PM	Peak Integrated by Software
VN0617WBS01	VN087051.D	1,2,3-Trichloropropane	SAM	6/18/2025 3:05:24 PM	MMDadoda	6/18/2025 6:18:37 PM	Peak Integrated by Software
VN0617WBS01	VN087051.D	N-amyl acetate	SAM	6/18/2025 3:05:24 PM	MMDadoda	6/18/2025 6:18:37 PM	Peak Integrated by Software
Q2329-01	VN087063.D	Acetone	SAM	6/18/2025 2:44:56 PM	MMDadoda	6/18/2025 6:19:06 PM	Peak Integrated by Software
VSTDCCC050	VN087072.D	1,2,3-Trichloropropane	SAM	6/18/2025 3:09:17 PM	MMDadoda	6/18/2025 6:19:33 PM	Peak Integrated by Software
VSTDCCC050	VN087072.D	N-amyl acetate	SAM	6/18/2025 3:09:17 PM	MMDadoda	6/18/2025 6:19:33 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VN061825	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN087074.D	1,2,3-Trichloropropane	JOHN	6/19/2025 8:54:39 AM	MMdadoda	6/21/2025 12:13:53 AM	Peak Integrated by Software
VSTDCCC050	VN087074.D	trans-1,4-Dichloro-2-but ene	JOHN	6/19/2025 8:54:39 AM	MMdadoda	6/21/2025 12:13:53 AM	Peak Integrated by Software
VN0618WBS01	VN087077.D	1,2,3-Trichloropropane	JOHN	6/19/2025 8:54:43 AM	MMdadoda	6/21/2025 12:14:00 AM	Peak Integrated by Software
VN0618WBS01	VN087077.D	N-amyl acetate	JOHN	6/19/2025 8:54:43 AM	MMdadoda	6/21/2025 12:14:00 AM	Peak Integrated by Software
VSTDCCC050	VN087098.D	1,2,3-Trichloropropane	JOHN	6/19/2025 8:55:00 AM	MMdadoda	6/21/2025 12:14:14 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VN061925	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN087100.D	1,2,3-Trichloropropane	JOHN	6/20/2025 8:46:16 AM	MMdadoda	6/21/2025 12:22:57 AM	Peak Integrated by Software
VN0619WBS01	VN087104.D	1,2,3-Trichloropropane	JOHN	6/20/2025 8:46:21 AM	MMdadoda	6/21/2025 12:23:01 AM	Peak Integrated by Software
VN0619WBS01	VN087104.D	N-amyl acetate	JOHN	6/20/2025 8:46:21 AM	MMdadoda	6/21/2025 12:23:01 AM	Peak Integrated by Software
Q2329-11MS	VN087118.D	1,2,3-Trichloropropane	JOHN	6/20/2025 8:48:09 AM	MMdadoda	6/21/2025 12:23:24 AM	Peak Integrated by Software
Q2329-12MSD	VN087119.D	1,2,3-Trichloropropane	JOHN	6/20/2025 8:48:14 AM	MMdadoda	6/21/2025 12:23:28 AM	Peak Integrated by Software
VSTDCCC050	VN087120.D	1,2,3-Trichloropropane	JOHN	6/20/2025 8:48:18 AM	MMdadoda	6/21/2025 12:23:33 AM	Peak Integrated by Software
VSTDCCC050	VN087120.D	N-amyl acetate	JOHN	6/20/2025 8:48:18 AM	MMdadoda	6/21/2025 12:23:33 AM	Peak Integrated by Software

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM		
SubDirectory	VN060625	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086861.D	06 Jun 2025 07:59	JC\MD	Ok
2	VSTDICC001	VN086862.D	06 Jun 2025 12:44	JC\MD	Ok,M
3	VSTDICC005	VN086863.D	06 Jun 2025 13:17	JC\MD	Ok,M
4	VSTDICC020	VN086864.D	06 Jun 2025 13:40	JC\MD	Ok,M
5	VSTDICCC050	VN086865.D	06 Jun 2025 14:03	JC\MD	Ok,M
6	VSTDICC100	VN086866.D	06 Jun 2025 14:26	JC\MD	Ok,M
7	VSTDICC150	VN086867.D	06 Jun 2025 14:49	JC\MD	Ok,M
8	IBLK	VN086868.D	06 Jun 2025 15:12	JC\MD	Ok
9	VSTDICV050	VN086869.D	06 Jun 2025 15:54	JC\MD	Ok,M
10	VN0606WBL01	VN086870.D	06 Jun 2025 16:47	JC\MD	Ok
11	VN0606WBL02	VN086871.D	06 Jun 2025 17:10	JC\MD	Ok
12	VN0606WBS01	VN086872.D	06 Jun 2025 17:33	JC\MD	Ok,M
13	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56	JC\MD	Ok,M
14	Q2254-01	VN086874.D	06 Jun 2025 18:19	JC\MD	Not Ok
15	Q2237-02	VN086875.D	06 Jun 2025 18:42	JC\MD	Ok
16	Q2216-02	VN086876.D	06 Jun 2025 19:05	JC\MD	Ok
17	Q2216-03	VN086877.D	06 Jun 2025 19:28	JC\MD	Ok
18	Q2216-04	VN086878.D	06 Jun 2025 19:51	JC\MD	Ok
19	Q2216-05	VN086879.D	06 Jun 2025 20:13	JC\MD	Not Ok
20	Q2216-06	VN086880.D	06 Jun 2025 20:36	JC\MD	Not Ok
21	Q2206-04	VN086881.D	06 Jun 2025 20:59	JC\MD	Not Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM		
SubDirectory	VN060625	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2242-04	VN086882.D	06 Jun 2025 21:21	JC\MD	Not Ok
23	Q2192-01	VN086883.D	06 Jun 2025 21:44	JC\MD	Not Ok
24	Q2198-02	VN086884.D	06 Jun 2025 22:07	JC\MD	Not Ok
25	Q2198-04	VN086885.D	06 Jun 2025 22:29	JC\MD	Not Ok
26	VSTDCCC050	VN086886.D	06 Jun 2025 22:52	JC\MD	Not Ok

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN061725

Review By	Semsettin Yesilyurt	Review On	6/18/2025 3:15:59 PM		
Supervise By	Mahesh Dadoda	Supervise On	6/18/2025 6:19:51 PM		
SubDirectory	VN061725	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134375
Initial Calibration Stds	
CCC	VP134376,VP134377
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087044.D	17 Jun 2025 08:51	JC\MD	Ok
2	VSTDCCC050	VN087045.D	17 Jun 2025 09:25	JC\MD	Ok,M
3	VN0617MBL01	VN087046.D	17 Jun 2025 09:59	JC\MD	Ok
4	VN0617WBL01	VN087047.D	17 Jun 2025 10:20	JC\MD	Ok
5	VN0617MBS01	VN087048.D	17 Jun 2025 10:41	JC\MD	Ok,M
6	Q2307-03	VN087049.D	17 Jun 2025 11:16	JC\MD	Ok
7	Q2286-01ME	VN087050.D	17 Jun 2025 11:37	JC\MD	Ok
8	VN0617WBS01	VN087051.D	17 Jun 2025 11:59	JC\MD	Ok,M
9	VN0617WBSD01	VN087052.D	17 Jun 2025 12:35	JC\MD	Ok,M
10	Q2299-16DL	VN087053.D	17 Jun 2025 12:56	JC\MD	Ok
11	Q2299-18DL	VN087054.D	17 Jun 2025 13:18	JC\MD	Ok
12	Q2299-17DL	VN087055.D	17 Jun 2025 13:39	JC\MD	Ok
13	PB168498TB	VN087056.D	17 Jun 2025 14:00	JC\MD	Ok
14	Q2311-04	VN087057.D	17 Jun 2025 14:22	JC\MD	Ok
15	Q2311-08	VN087058.D	17 Jun 2025 14:43	JC\MD	Ok
16	Q2312-04	VN087059.D	17 Jun 2025 15:04	JC\MD	Ok
17	Q2319-04	VN087060.D	17 Jun 2025 15:26	JC\MD	Ok
18	Q2320-01	VN087061.D	17 Jun 2025 15:47	JC\MD	Ok
19	Q2325-04	VN087062.D	17 Jun 2025 16:08	JC\MD	Ok,M
20	Q2329-01	VN087063.D	17 Jun 2025 16:30	JC\MD	Ok,M
21	Q2329-02	VN087064.D	17 Jun 2025 16:51	JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN061725

Review By	Semsettin Yesilyurt	Review On	6/18/2025 3:15:59 PM		
Supervise By	Mahesh Dadoda	Supervise On	6/18/2025 6:19:51 PM		
SubDirectory	VN061725	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134375
Initial Calibration Stds	
CCC	VP134376,VP134377
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2329-03	VN087065.D	17 Jun 2025 17:13	JC\MD	Ok
23	Q2329-04	VN087066.D	17 Jun 2025 17:34	JC\MD	ReRun
24	Q2329-05	VN087067.D	17 Jun 2025 17:56	JC\MD	Ok
25	Q2329-06	VN087068.D	17 Jun 2025 18:17	JC\MD	Ok
26	Q2299-05	VN087069.D	17 Jun 2025 18:39	JC\MD	Ok
27	Q2299-03MS	VN087070.D	17 Jun 2025 19:00	JC\MD	Not Ok
28	Q2299-04MSD	VN087071.D	17 Jun 2025 19:22	JC\MD	Ok,M
29	VSTDCCC050	VN087072.D	17 Jun 2025 19:43	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN061825

Review By	John Carlone	Review On	6/19/2025 9:02:07 AM				
Supervise By	Mahesh Dadoda	Supervise On	6/21/2025 12:14:25 AM				
SubDirectory	VN061825	HP Acquire Method	MSVOA_N	HP Processing Method	82n060625w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134412
Initial Calibration Stds	
CCC	VP134414,VP134415
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	VN087073.D	18 Jun 2025 08:43	JC\MD	Ok
2	VSTDCCC050	VN087074.D	18 Jun 2025 10:21	JC\MD	Ok,M
3	VN0618MBL01	VN087075.D	18 Jun 2025 11:01	JC\MD	Ok
4	VN0618WBL01	VN087076.D	18 Jun 2025 11:46	JC\MD	Ok
5	VN0618WBS01	VN087077.D	18 Jun 2025 12:07	JC\MD	Ok,M
6	VN0618WBSD01	VN087078.D	18 Jun 2025 12:29	JC\MD	Ok,M
7	PB168515TB	VN087079.D	18 Jun 2025 12:51	JC\MD	Ok
8	Q2299-02	VN087080.D	18 Jun 2025 13:13	JC\MD	Ok
9	Q2339-04	VN087081.D	18 Jun 2025 13:34	JC\MD	Ok
10	Q2340-04	VN087082.D	18 Jun 2025 13:56	JC\MD	Ok
11	Q2341-04	VN087083.D	18 Jun 2025 14:18	JC\MD	Ok
12	Q2341-08	VN087084.D	18 Jun 2025 14:40	JC\MD	Ok
13	Q2347-04	VN087085.D	18 Jun 2025 15:02	JC\MD	Ok
14	Q2329-07	VN087086.D	18 Jun 2025 15:24	JC\MD	Ok
15	Q2329-08	VN087087.D	18 Jun 2025 15:46	JC\MD	Ok
16	Q2329-09	VN087088.D	18 Jun 2025 16:08	JC\MD	Ok
17	Q2329-13	VN087089.D	18 Jun 2025 16:30	JC\MD	Ok
18	Q2329-14	VN087090.D	18 Jun 2025 16:52	JC\MD	Ok
19	Q2329-15	VN087091.D	18 Jun 2025 17:14	JC\MD	ReRun
20	Q2329-16	VN087092.D	18 Jun 2025 17:36	JC\MD	Ok
21	Q2329-17	VN087093.D	18 Jun 2025 17:57	JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN061825

Review By	John Carlone	Review On	6/19/2025 9:02:07 AM				
Supervise By	Mahesh Dadoda	Supervise On	6/21/2025 12:14:25 AM				
SubDirectory	VN061825	HP Acquire Method	MSVOA_N	HP Processing Method	82n060625w.m		

STD. NAME	STD REF.#
Tune/Reschk	VP134412
Initial Calibration Stds	
CCC	VP134414,VP134415
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2329-18	VN087094.D	18 Jun 2025 18:18	JC\MD	Ok
23	Q2329-04	VN087095.D	18 Jun 2025 18:39	JC\MD	Ok
24	Q2299-03MS	VN087096.D	18 Jun 2025 19:00	JC\MD	Ok,M
25	VIBLK	VN087097.D	18 Jun 2025 19:21	JC\MD	Ok
26	VSTDCCC050	VN087098.D	18 Jun 2025 19:42	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN061925

Review By	John Carlone	Review On	6/20/2025 8:50:20 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/21/2025 12:24:10 AM		
SubDirectory	VN061925	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134425
Initial Calibration Stds	
CCC	VP134426,VP134427
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN087099.D	19 Jun 2025 08:58	JC\MD	Ok
2	VSTDCCC050	VN087100.D	19 Jun 2025 09:31	JC\MD	Ok,M
3	VN0619MBL01	VN087101.D	19 Jun 2025 10:05	JC\MD	Ok
4	VN0619WBL01	VN087102.D	19 Jun 2025 10:26	JC\MD	Ok
5	Q2329-15	VN087103.D	19 Jun 2025 10:47	JC\MD	Ok
6	VN0619WBS01	VN087104.D	19 Jun 2025 12:22	JC\MD	Ok,M
7	VN0619WBSD01	VN087105.D	19 Jun 2025 12:56	JC\MD	Not Ok
8	Q2333-01	VN087106.D	19 Jun 2025 13:17	JC\MD	Ok,M
9	Q2333-02	VN087107.D	19 Jun 2025 13:38	JC\MD	Dilution
10	Q2333-03	VN087108.D	19 Jun 2025 13:59	JC\MD	ReRun
11	Q2333-04	VN087109.D	19 Jun 2025 14:21	JC\MD	Ok
12	Q2333-05	VN087110.D	19 Jun 2025 14:42	JC\MD	Ok
13	Q2333-06	VN087111.D	19 Jun 2025 15:03	JC\MD	Dilution
14	IBLK	VN087112.D	19 Jun 2025 15:24	JC\MD	Ok
15	IBLK	VN087113.D	19 Jun 2025 15:45	JC\MD	Ok
16	Q2333-02DL	VN087114.D	19 Jun 2025 16:07	JC\MD	Ok
17	Q2333-03	VN087115.D	19 Jun 2025 16:28	JC\MD	Ok
18	Q2333-06DL	VN087116.D	19 Jun 2025 16:49	JC\MD	Ok,M
19	Q2329-10	VN087117.D	19 Jun 2025 17:10	JC\MD	Ok
20	Q2329-11MS	VN087118.D	19 Jun 2025 17:31	JC\MD	Ok,M
21	Q2329-12MSD	VN087119.D	19 Jun 2025 17:52	JC\MD	Ok,M

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN061925

Review By	John Carlone	Review On	6/20/2025 8:50:20 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/21/2025 12:24:10 AM		
SubDirectory	VN061925	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134425
Initial Calibration Stds	
CCC	VP134426,VP134427
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	VSTDCCC050	VN087120.D	19 Jun 2025 18:13	JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM		
SubDirectory	VN060625	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086861.D	06 Jun 2025 07:59		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN086862.D	06 Jun 2025 12:44	Method failed for com.#13	JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN086863.D	06 Jun 2025 13:17		JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN086864.D	06 Jun 2025 13:40		JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN086865.D	06 Jun 2025 14:03		JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN086866.D	06 Jun 2025 14:26		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN086867.D	06 Jun 2025 14:49		JC\MD	Ok,M
8	IBLK	IBLK	VN086868.D	06 Jun 2025 15:12		JC\MD	Ok
9	VSTDICV050	ICVVN060625	VN086869.D	06 Jun 2025 15:54		JC\MD	Ok,M
10	VN0606WBL01	VN0606WBL01	VN086870.D	06 Jun 2025 16:47		JC\MD	Ok
11	VN0606WBL02	VN0606WBL02	VN086871.D	06 Jun 2025 17:10		JC\MD	Ok
12	VN0606WBS01	VN0606WBS01	VN086872.D	06 Jun 2025 17:33		JC\MD	Ok,M
13	VN0606WBSD01	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56		JC\MD	Ok,M
14	Q2254-01	BP-VPB-182-GW-810-8	VN086874.D	06 Jun 2025 18:19	vial A pH<2 endccc out of tune	JC\MD	Not Ok
15	Q2237-02	TW-WTS-10	VN086875.D	06 Jun 2025 18:42	vial A pH<2	JC\MD	Ok
16	Q2216-02	3887	VN086876.D	06 Jun 2025 19:05	vial A pH<2	JC\MD	Ok
17	Q2216-03	3888	VN086877.D	06 Jun 2025 19:28	vial A pH<2	JC\MD	Ok
18	Q2216-04	3864	VN086878.D	06 Jun 2025 19:51	vial A pH<2	JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM		
SubDirectory	VN060625	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134155
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC	VP134156
Internal Standard/PEM	
ICV/I.BLK	VP134248
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2216-05	3865	VN086879.D	06 Jun 2025 20:13	vial A pH<2 Out of Tune	JC\MD	Not Ok
20	Q2216-06	3851	VN086880.D	06 Jun 2025 20:36	vial A pH<2 Out of Tune	JC\MD	Not Ok
21	Q2206-04	TP-1	VN086881.D	06 Jun 2025 20:59	vial A pH<2 Out of Tune	JC\MD	Not Ok
22	Q2242-04	TP09-MHJ	VN086882.D	06 Jun 2025 21:21	vial A pH<2 Out of Tune	JC\MD	Not Ok
23	Q2192-01	SB-1	VN086883.D	06 Jun 2025 21:44	vial A pH<2 Out of Tune	JC\MD	Not Ok
24	Q2198-02	B-202-SB02	VN086884.D	06 Jun 2025 22:07	vial A pH<2 Out of Tune	JC\MD	Not Ok
25	Q2198-04	B-207-SB02	VN086885.D	06 Jun 2025 22:29	vial A pH<2 Out of Tune	JC\MD	Not Ok
26	VSTDCCC050	VSTDCCC050EC	VN086886.D	06 Jun 2025 22:52	Out of Tune	JC\MD	Not Ok

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN061725

Review By	Semsettin Yesilyurt	Review On	6/18/2025 3:15:59 PM		
Supervise By	Mahesh Dadoda	Supervise On	6/18/2025 6:19:51 PM		
SubDirectory	VN061725	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134375
Initial Calibration Stds	
CCC	VP134376,VP134377
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	VN087044.D	17 Jun 2025 08:51		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN087045.D	17 Jun 2025 09:25	pH#Lot#V12668	JC\MD	Ok,M
3	VN0617MBL01	VN0617MBL01	VN087046.D	17 Jun 2025 09:59		JC\MD	Ok
4	VN0617WBL01	VN0617WBL01	VN087047.D	17 Jun 2025 10:20		JC\MD	Ok
5	VN0617MBS01	VN0617MBS01	VN087048.D	17 Jun 2025 10:41		JC\MD	Ok,M
6	Q2307-03	LINDEN-SAA-WATER	VN087049.D	17 Jun 2025 11:16	vial A pH<2	JC\MD	Ok
7	Q2286-01ME	BP-VPB-182-TB-20250	VN087050.D	17 Jun 2025 11:37		JC\MD	Ok
8	VN0617WBS01	VN0617WBS01	VN087051.D	17 Jun 2025 11:59		JC\MD	Ok,M
9	VN0617WBSD01	VN0617WBSD01	VN087052.D	17 Jun 2025 12:35		JC\MD	Ok,M
10	Q2299-16DL	RE134D4-20250610DL	VN087053.D	17 Jun 2025 12:56	vial B pH<2	JC\MD	Ok
11	Q2299-18DL	TT190D1-20250611DL	VN087054.D	17 Jun 2025 13:18	vial B pH<2	JC\MD	Ok
12	Q2299-17DL	RE134D3-20250610DL	VN087055.D	17 Jun 2025 13:39	vial B pH<2	JC\MD	Ok
13	PB168498TB	PB168498TB	VN087056.D	17 Jun 2025 14:00	vial A pH#5.0	JC\MD	Ok
14	Q2311-04	TP03-MH2MH3-WC	VN087057.D	17 Jun 2025 14:22	vial A pH#6.0	JC\MD	Ok
15	Q2311-08	TP04-MH4-WC	VN087058.D	17 Jun 2025 14:43	vial A pH 7	JC\MD	Ok
16	Q2312-04	TP-1	VN087059.D	17 Jun 2025 15:04	vial A pH 5	JC\MD	Ok
17	Q2319-04	MH-B	VN087060.D	17 Jun 2025 15:26	vial A pH 5	JC\MD	Ok
18	Q2320-01	WC	VN087061.D	17 Jun 2025 15:47	vial A pH#5.0	JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN061725

Review By	Semsettin Yesilyurt	Review On	6/18/2025 3:15:59 PM		
Supervise By	Mahesh Dadoda	Supervise On	6/18/2025 6:19:51 PM		
SubDirectory	VN061725	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134375
Initial Calibration Stds	
CCC	VP134376,VP134377
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2325-04	TP-8	VN087062.D	17 Jun 2025 16:08	vial A pH 5	JC\MD	Ok,M
20	Q2329-01	TT192D1-20250611	VN087063.D	17 Jun 2025 16:30	vial A pH<2	JC\MD	Ok,M
21	Q2329-02	TT188S1-20250612	VN087064.D	17 Jun 2025 16:51	vial A pH<2	JC\MD	Ok
22	Q2329-03	TT119S1-20250612	VN087065.D	17 Jun 2025 17:13	vial A pH<2	JC\MD	Ok
23	Q2329-04	FB01-20250613	VN087066.D	17 Jun 2025 17:34	vial A pH<2 FB; Hit of comp.#16,20	JC\MD	ReRun
24	Q2329-05	TT162S1-20250613	VN087067.D	17 Jun 2025 17:56	vial A pH<2	JC\MD	Ok
25	Q2329-06	BPOW6-7-20250613	VN087068.D	17 Jun 2025 18:17	vial A pH<2	JC\MD	Ok
26	Q2299-05	TT191D1-20250609	VN087069.D	17 Jun 2025 18:39	vial A pH<2	JC\MD	Ok
27	Q2299-03MS	TT191D1-20250609MS	VN087070.D	17 Jun 2025 19:00	vial A pH<2 Recovery failed	JC\MD	Not Ok
28	Q2299-04MSD	TT191D1-20250609MS	VN087071.D	17 Jun 2025 19:22	vial A pH<2	JC\MD	Ok,M
29	VSTDCCC050	VSTDCCC050EC	VN087072.D	17 Jun 2025 19:43		JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN061825

Review By	John Carlone	Review On	6/19/2025 9:02:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/21/2025 12:14:25 AM		
SubDirectory	VN061825	HP Acquire Method	MSVOA_N	HP Processing Method	82n060625w.m

STD. NAME	STD REF.#
Tune/Reschk	VP134412
Initial Calibration Stds	
CCC	VP134414,VP134415
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	VN087073.D	18 Jun 2025 08:43		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN087074.D	18 Jun 2025 10:21	pH#Lot#V12668	JC\MD	Ok,M
3	VN0618MBL01	VN0618MBL01	VN087075.D	18 Jun 2025 11:01		JC\MD	Ok
4	VN0618WBL01	VN0618WBL01	VN087076.D	18 Jun 2025 11:46		JC\MD	Ok
5	VN0618WBS01	VN0618WBS01	VN087077.D	18 Jun 2025 12:07		JC\MD	Ok,M
6	VN0618WBSD01	VN0618WBSD01	VN087078.D	18 Jun 2025 12:29		JC\MD	Ok,M
7	PB168515TB	PB168515TB	VN087079.D	18 Jun 2025 12:51		JC\MD	Ok
8	Q2299-02	RE117D2-20250609	VN087080.D	18 Jun 2025 13:13	vial A pH<2	JC\MD	Ok
9	Q2339-04	MH-C	VN087081.D	18 Jun 2025 13:34	vial A pH#5.0	JC\MD	Ok
10	Q2340-04	TP05-MH17A-WC	VN087082.D	18 Jun 2025 13:56	vial A pH#5.0	JC\MD	Ok
11	Q2341-04	TP-9	VN087083.D	18 Jun 2025 14:18	vial A pH#5.0	JC\MD	Ok
12	Q2341-08	EP-3	VN087084.D	18 Jun 2025 14:40	vial A pH#5.0	JC\MD	Ok
13	Q2347-04	TP-10	VN087085.D	18 Jun 2025 15:02	vial A pH#5.0	JC\MD	Ok
14	Q2329-07	BPOW6-8-20250613	VN087086.D	18 Jun 2025 15:24	vial A pH<2	JC\MD	Ok
15	Q2329-08	BPOW6-11-20250613	VN087087.D	18 Jun 2025 15:46	vial A pH<2	JC\MD	Ok
16	Q2329-09	TT149S1-20250613	VN087088.D	18 Jun 2025 16:08	vial A pH<2	JC\MD	Ok
17	Q2329-13	DUP03-20250613	VN087089.D	18 Jun 2025 16:30	vial A pH<2	JC\MD	Ok
18	Q2329-14	DUP04-20250613	VN087090.D	18 Jun 2025 16:52	vial A pH<2	JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN061825

Review By	John Carlone	Review On	6/19/2025 9:02:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/21/2025 12:14:25 AM		
SubDirectory	VN061825	HP Acquire Method	MSVOA_N	HP Processing Method	82n060625w.m

STD. NAME	STD REF.#
Tune/Reschk	VP134412
Initial Calibration Stds	
CCC	VP134414,VP134415
Internal Standard/PEM	VP133935
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2329-15	EB01-20250613	VN087091.D	18 Jun 2025 17:14	vial A pH<2 EB;Hit of comp.#16,20	JC\MD	ReRun
20	Q2329-16	TB01-20250612	VN087092.D	18 Jun 2025 17:36	vial A pH<2 TB	JC\MD	Ok
21	Q2329-17	TB02-20250612	VN087093.D	18 Jun 2025 17:57	vial A pH<2 TB	JC\MD	Ok
22	Q2329-18	TT163S1-20250613	VN087094.D	18 Jun 2025 18:18	vial A pH<2	JC\MD	Ok
23	Q2329-04	FB01-20250613	VN087095.D	18 Jun 2025 18:39	vial B pH<2 FB	JC\MD	Ok
24	Q2299-03MS	TT191D1-20250609MS	VN087096.D	18 Jun 2025 19:00	vial B pH<2	JC\MD	Ok,M
25	VIBLK	VIBLK	VN087097.D	18 Jun 2025 19:21		JC\MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VN087098.D	18 Jun 2025 19:42		JC\MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN061925

Review By	John Carlone	Review On	6/20/2025 8:50:20 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/21/2025 12:24:10 AM		
SubDirectory	VN061925	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134425
Initial Calibration Stds	
CCC	VP134426,VP134427
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	VN087099.D	19 Jun 2025 08:58		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN087100.D	19 Jun 2025 09:31	pH#Lot#V12668	JC\MD	Ok,M
3	VN0619MBL01	VN0619MBL01	VN087101.D	19 Jun 2025 10:05		JC\MD	Ok
4	VN0619WBL01	VN0619WBL01	VN087102.D	19 Jun 2025 10:26		JC\MD	Ok
5	Q2329-15	EB01-20250613	VN087103.D	19 Jun 2025 10:47	vial B pH<2 EB	JC\MD	Ok
6	VN0619WBS01	VN0619WBS01	VN087104.D	19 Jun 2025 12:22		JC\MD	Ok,M
7	VN0619WBSD01	VN0619WBSD01	VN087105.D	19 Jun 2025 12:56	Recovery fail	JC\MD	Not Ok
8	Q2333-01	MW-06	VN087106.D	19 Jun 2025 13:17	vial A pH<2	JC\MD	Ok,M
9	Q2333-02	MW-08	VN087107.D	19 Jun 2025 13:38	vial A pH<2 Need 20x	JC\MD	Dilution
10	Q2333-03	MW-10	VN087108.D	19 Jun 2025 13:59	vial A pH<2 E flag of previous sample	JC\MD	ReRun
11	Q2333-04	MW-11	VN087109.D	19 Jun 2025 14:21	vial A pH<2	JC\MD	Ok
12	Q2333-05	MW-13	VN087110.D	19 Jun 2025 14:42	vial A pH<2	JC\MD	Ok
13	Q2333-06	MW-12	VN087111.D	19 Jun 2025 15:03	vial A pH<2 Need 10x	JC\MD	Dilution
14	IBLK	IBLK	VN087112.D	19 Jun 2025 15:24		JC\MD	Ok
15	IBLK	IBLK	VN087113.D	19 Jun 2025 15:45		JC\MD	Ok
16	Q2333-02DL	MW-08DL	VN087114.D	19 Jun 2025 16:07	vial B pH<2	JC\MD	Ok
17	Q2333-03	MW-10	VN087115.D	19 Jun 2025 16:28	vial B pH<2	JC\MD	Ok

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

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN061925

Review By	John Carlone	Review On	6/20/2025 8:50:20 AM		
Supervise By	Mahesh Dadoda	Supervise On	6/21/2025 12:24:10 AM		
SubDirectory	VN061925	HP Acquire Method		HP Processing Method	82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134425
Initial Calibration Stds	
CCC	VP134426,VP134427
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	Q2333-06DL	MW-12DL	VN087116.D	19 Jun 2025 16:49	vial B pH<2	JC\MD	Ok,M
19	Q2329-10	TT172S1-20250613	VN087117.D	19 Jun 2025 17:10	vial A pH<2	JC\MD	Ok
20	Q2329-11MS	TT172S1-20250613MS	VN087118.D	19 Jun 2025 17:31	vial A pH<2	JC\MD	Ok,M
21	Q2329-12MSD	TT172S1-20250613MS	VN087119.D	19 Jun 2025 17:52	vial A pH<2	JC\MD	Ok,M
22	VSTDCCC050	VSTDCCC050EC	VN087120.D	19 Jun 2025 18:13		JC\MD	Ok,M

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 : Q2329

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: VN061725,VN061825,VN061925,

Standard ID :
VP133174,VP133887,VP133935,VP133953,VP133991,VP134142,VP134149,VP134375,VP134376,VP134377,VP134412,VP134414,VP134415,VP134425,VP134426,VP134427,

Chemical ID :
V13391,V13706,V14290,V14432,V14435,V14503,V14504,V14525,V14526,V14613,V14620,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14711,V14717,V14718,V14721,V14749,V14750,V14811,V14812,V14843,V14921,V14929,V14944,V14945,V14946,V14947,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
617	8260 Surrogate, 400PPM	VP133174	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133887	05/12/2025	06/23/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/14/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14432 + 1.00000ml of V14435 + 1.00000ml of V14503 + 1.00000ml of V14504 + 1.00000ml of V14525 + 1.00000ml of V14526 + 1.00000ml of V14711 + 1.00000ml of V14717 + 1.00000ml of V14718 + 1.00000ml of V14721 + 1.00000ml of V14749 + 1.00000ml of V14750 + 1.00000ml of V14811 + 1.00000ml of V14812 + 10.60000ml of V14921 = 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
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
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133991	05/22/2025	06/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/24/2025

FROM 1.00000ml of V14944 + 1.00000ml of V14945 + 1.00000ml of V14946 + 1.00000ml of V14947 + 21.00000ml of V14620 = Final Quantity: 25.000 ml

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

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
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP134375	06/17/2025	06/18/2025	John Carlone	None	None	Mahesh Dadoda 06/17/2025

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	VP134376	06/17/2025	06/18/2025	John Carlone	None	None	Mahesh Dadoda 06/17/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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	VP134377	06/17/2025	06/18/2025	John Carlone	None	None	Mahesh Dadoda 06/17/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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	VP134412	06/18/2025	06/19/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt 06/21/2025

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	VP134414	06/18/2025	06/19/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt 06/21/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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	VP134415	06/18/2025	06/19/2025	Mahesh Dadoda	None	None	Semsettin Yesilyurt 06/21/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP134425	06/19/2025	06/20/2025	John Carlone	None	None	Mahesh Dadoda 06/21/2025

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	VP134426	06/19/2025	06/19/2025	John Carlone	None	None	Mahesh Dadoda 06/21/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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	VP134427	06/19/2025	06/19/2025	John Carlone	None	None	Mahesh Dadoda 06/21/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

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 #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	05/12/2025 / SAM	08/15/2024 / SAM	V14432

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	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14435

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	11/12/2025	05/12/2025 / SAM	09/17/2024 / SAM	V14503

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	11/12/2025	05/12/2025 / SAM	09/17/2024 / SAM	V14504

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	11/12/2025	05/12/2025 / SAM	09/18/2024 / SAM	V14525

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	11/12/2025	05/12/2025 / SAM	09/18/2024 / SAM	V14526

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)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

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)	22L0562016	10/25/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14620

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

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	V14636

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

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	V14673

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	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14711

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	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14717

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	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14718

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	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14721

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	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	11/13/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14749

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	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14750

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	11/12/2025	05/12/2025 / SAM	01/08/2025 / SAM	V14811

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	06/30/2026	05/12/2025 / SAM	01/08/2025 / SAM	V14812

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	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

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

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 #
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 #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14944

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14945

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14946

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14947

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

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
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	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
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

James Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
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	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
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

James Ethier
Jamie Ethier
Vice President Global Quality

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

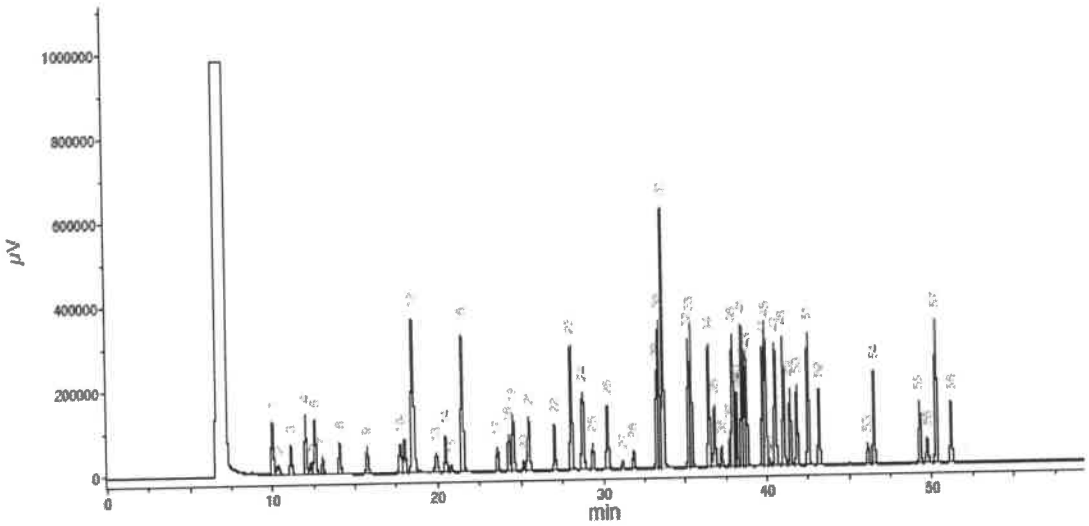
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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	35.39
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	42.02
52	1,2-Dichlorobenzene	42.18
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.

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

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

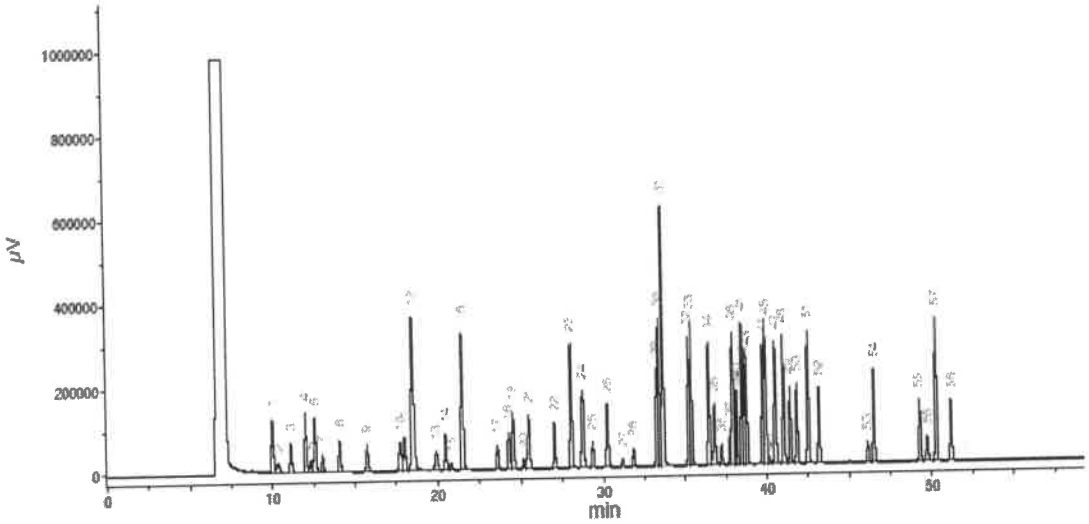
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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 6040mg/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	20.46
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	35.23
33	Styrene	35.30
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	41.12
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	48.26
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

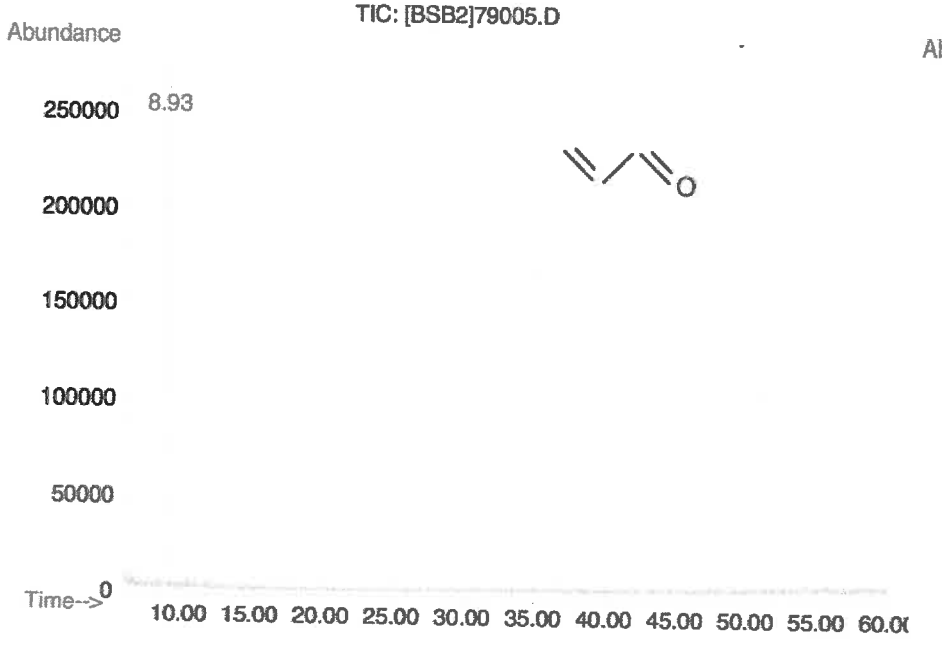
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

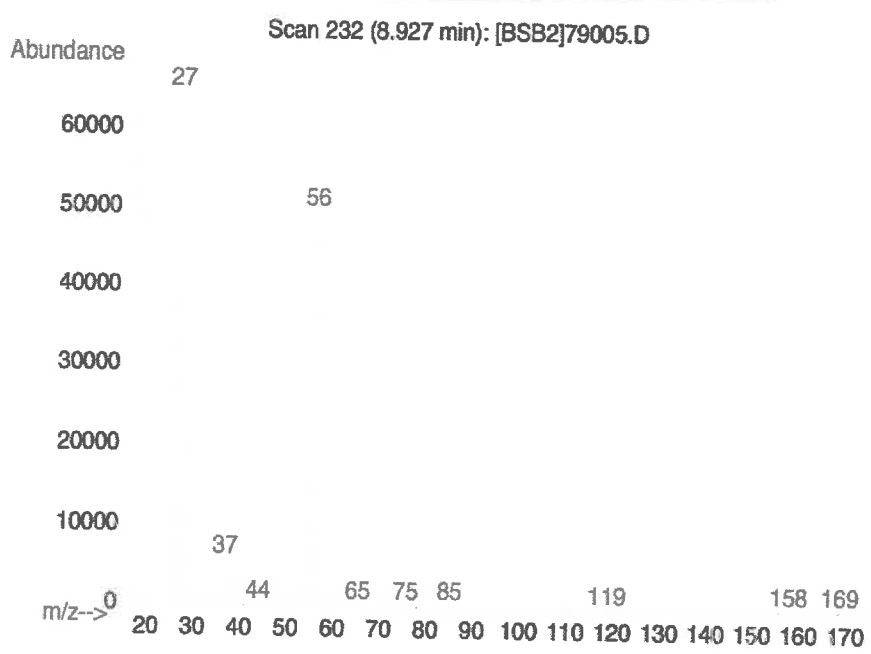
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

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 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

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

Solvent(s): **Lot#**
Water 072324Q

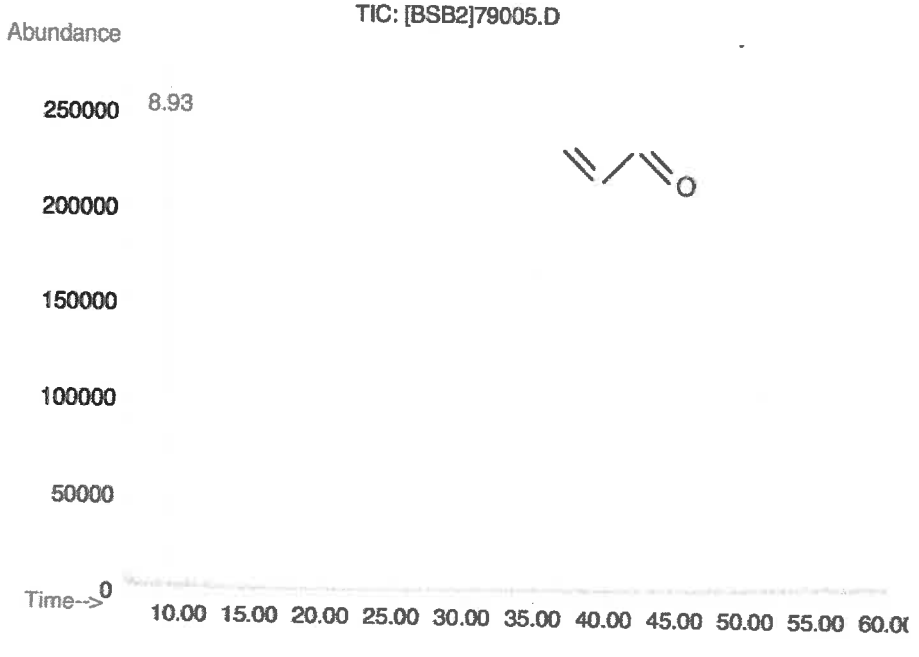
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

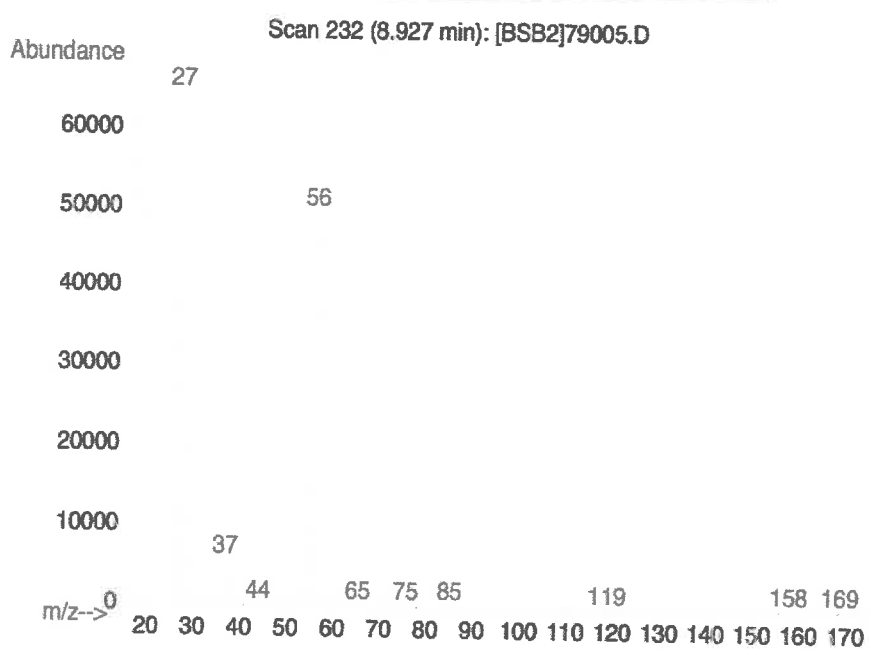
Justin Dippold 091424
Formulated By: Justin Dippold DATE

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

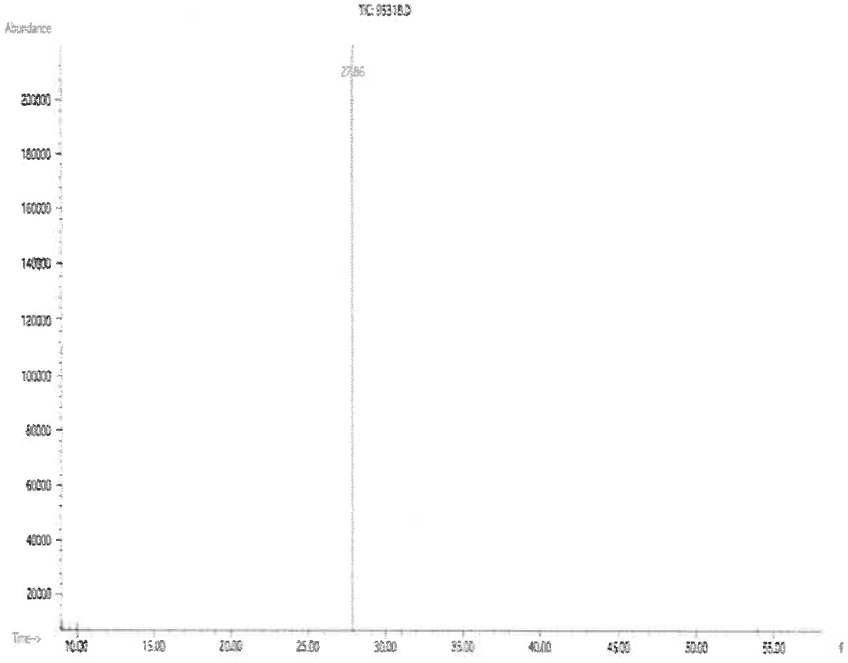
Solvent(s): Methanol **Lot#** EJ143-US

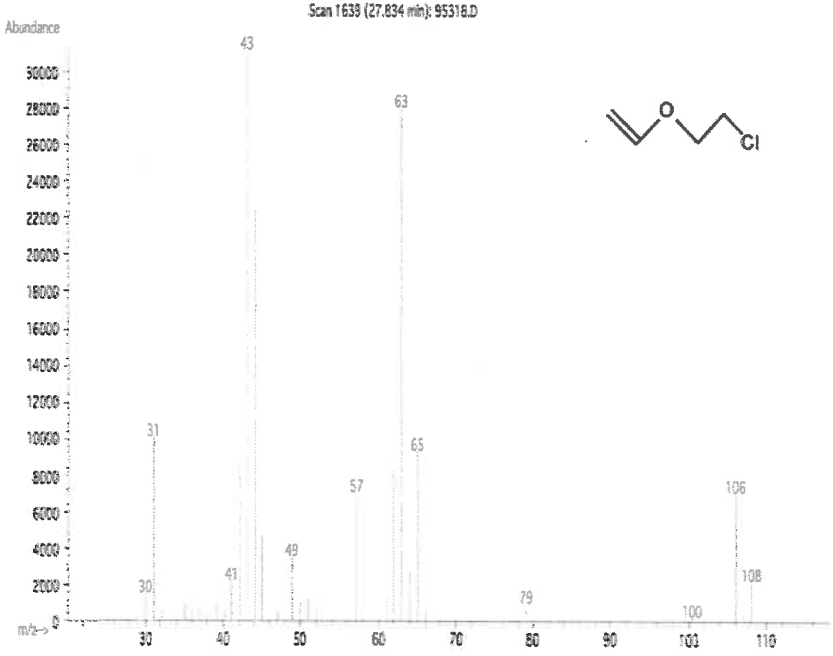
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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

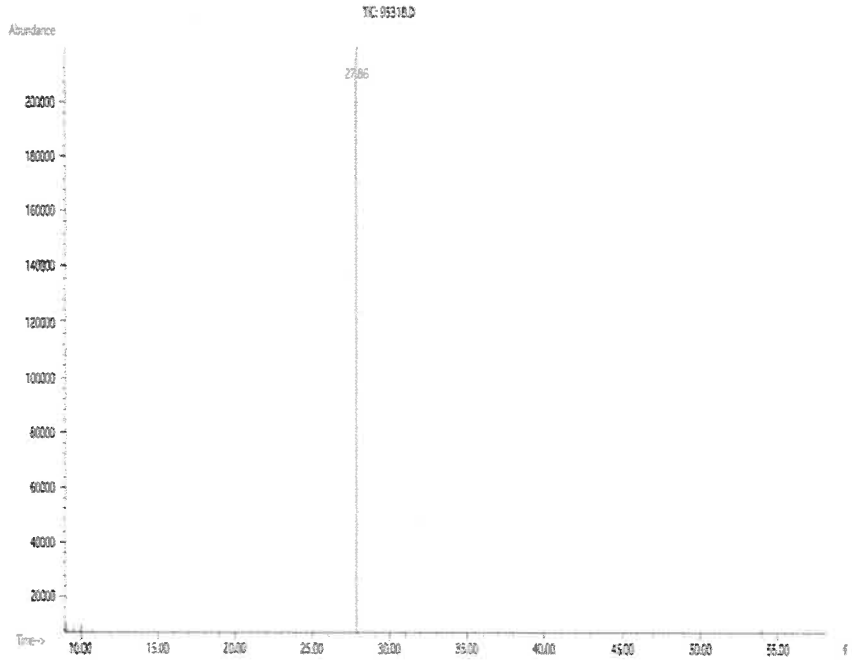
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

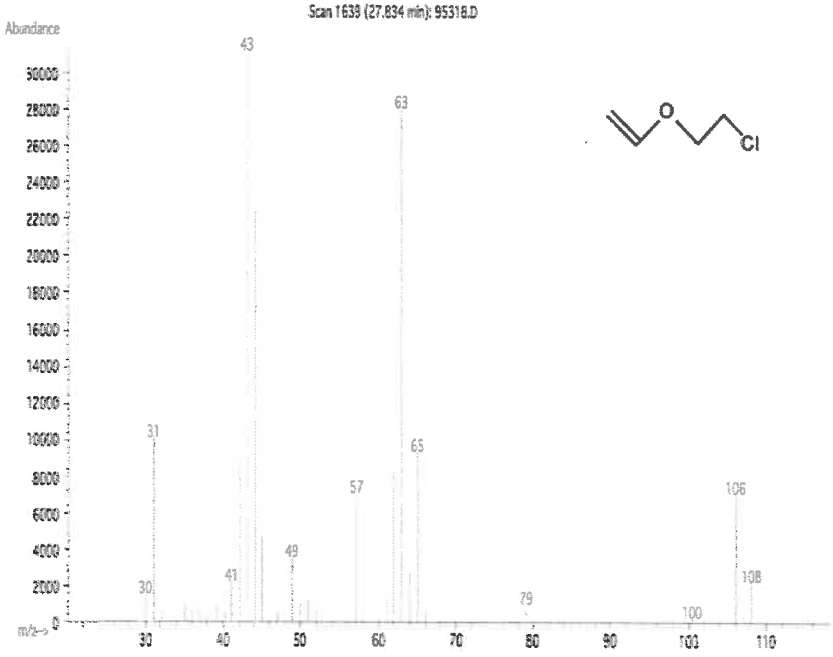
Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

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

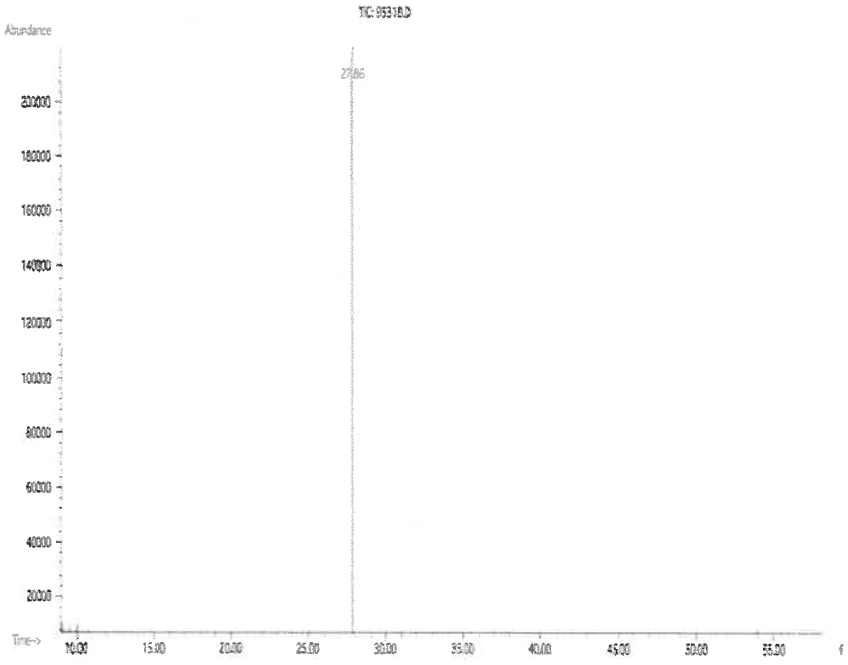
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

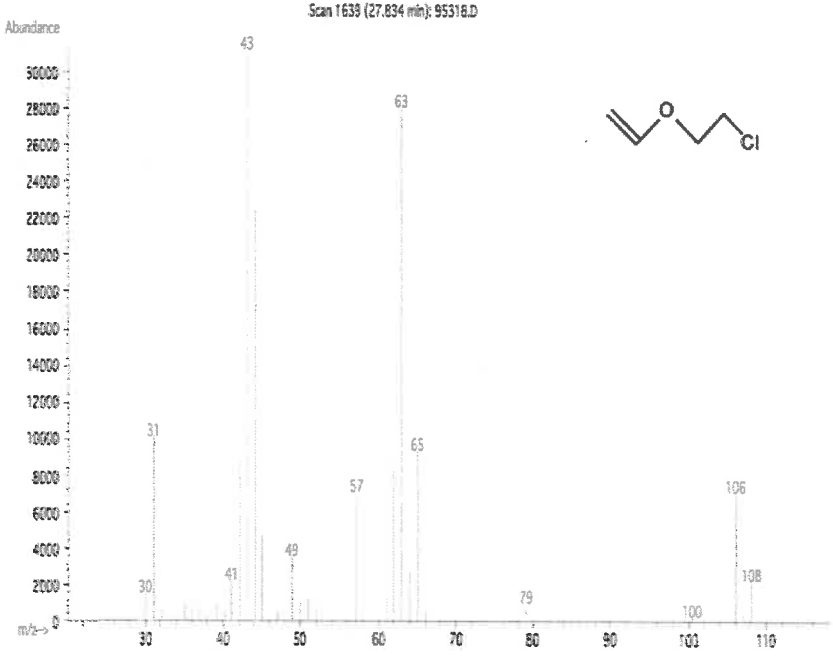
Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

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

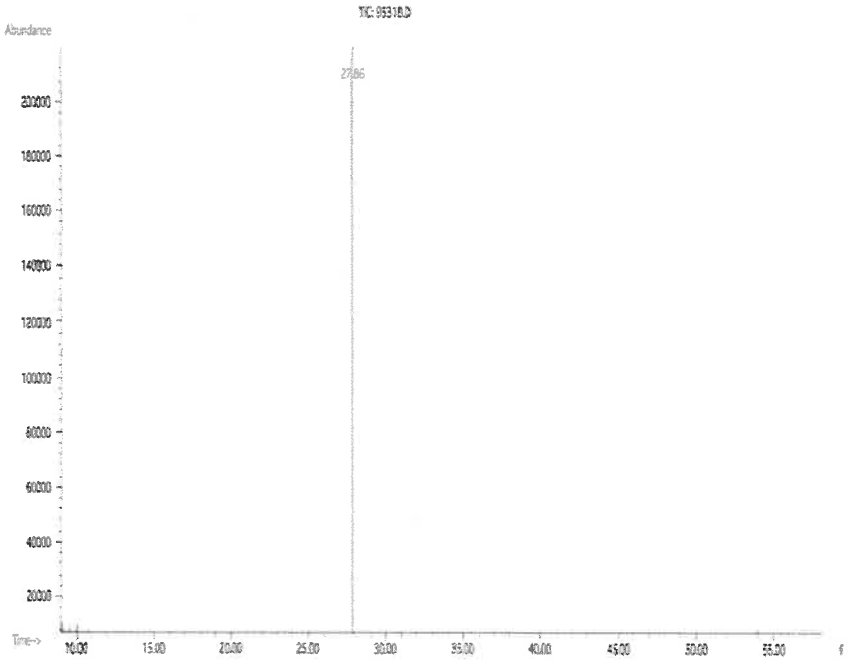
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

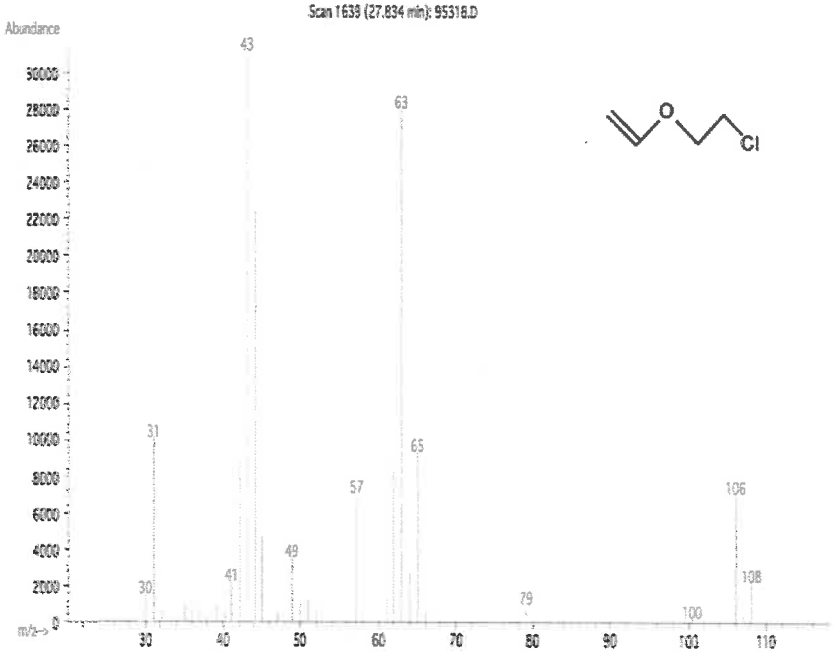
Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

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.

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.)

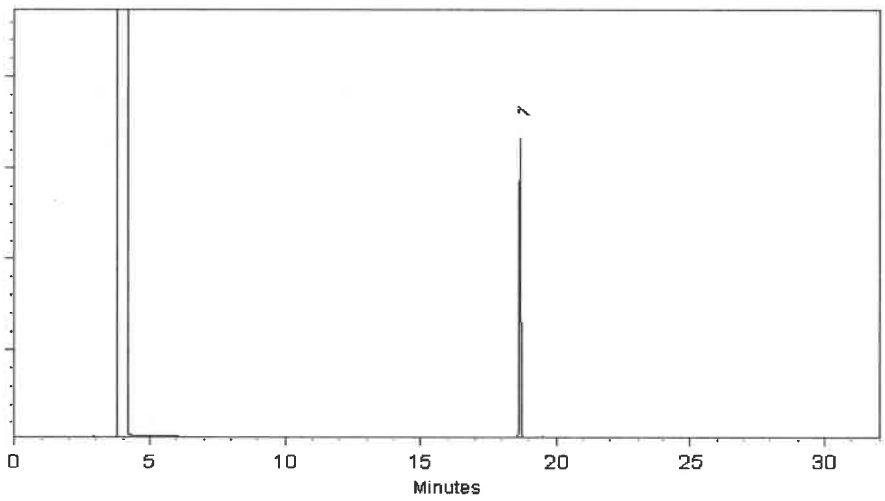
Inj. Temp:
200°C

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

gravimetric

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.:** A0196865

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 : April 30, 2026 **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-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023 **Balance:** 1127510105

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. : 30489 **Lot No.:** A0209618

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 : September 30, 2025 **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	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* 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.)

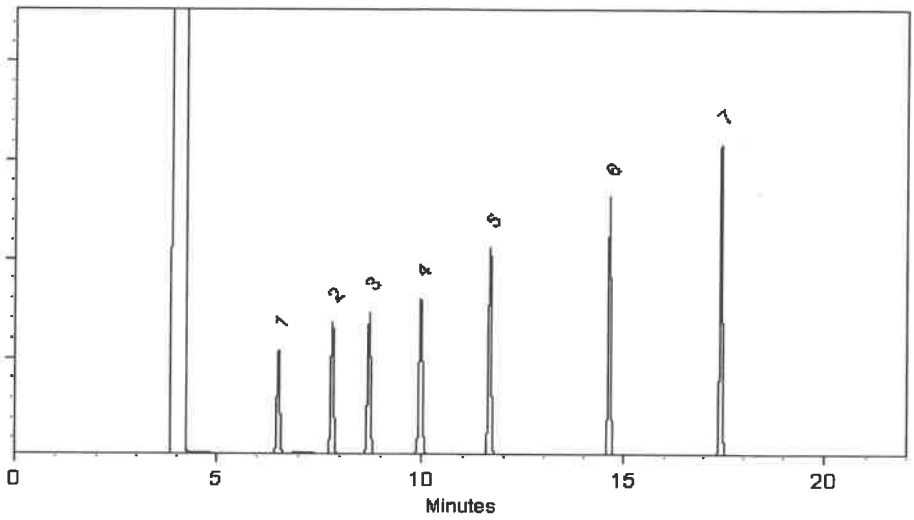
Inj. Temp:
200°C

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.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-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

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. : 30489 **Lot No.:** A0209618

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 : September 30, 2025 **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	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* 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.)

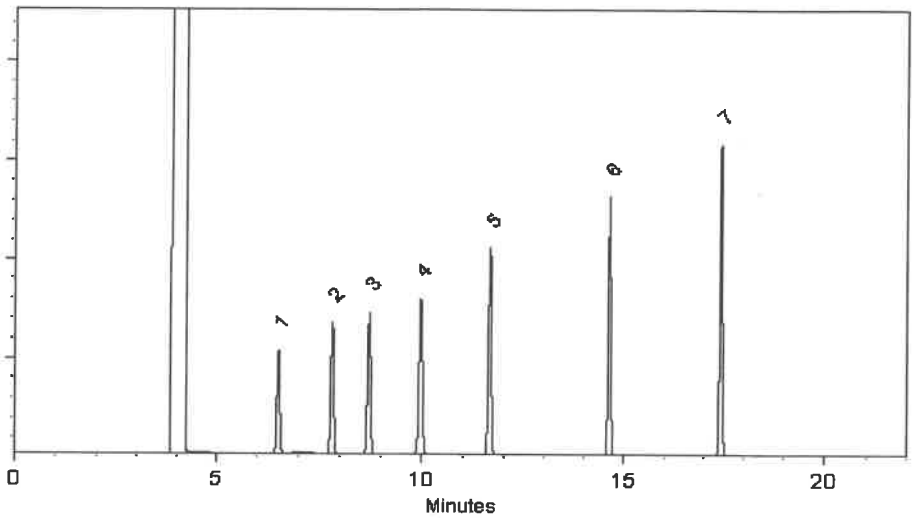
Inj. Temp:
200°C

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.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-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

gravimetric

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. : 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

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Yrs

Certificate of Analysis

chromatographic plus

V14697-to-14726

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.:** A0210618

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 : July 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	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* 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.)

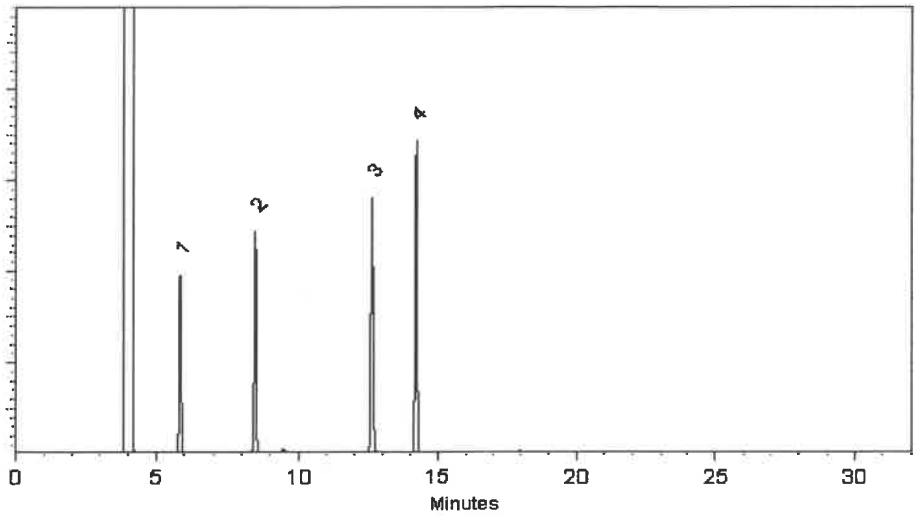
Inj. Temp:
200°C

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.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-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 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

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.:** A0210618

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 : July 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	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* 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.)

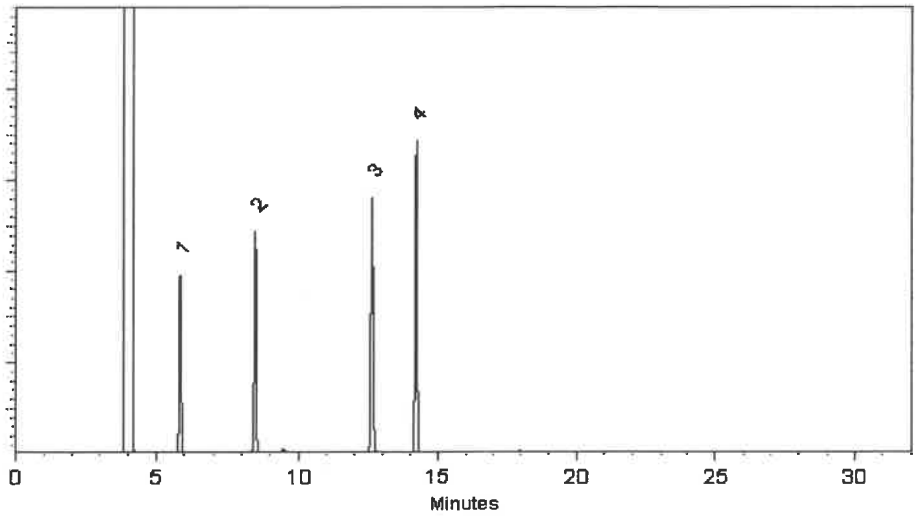
Inj. Temp:
200°C

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.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-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 Yr

Certificate of Analysis

chromatographic plus

V14697-to-14726

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.:** A0210618

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 : July 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	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* 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.)

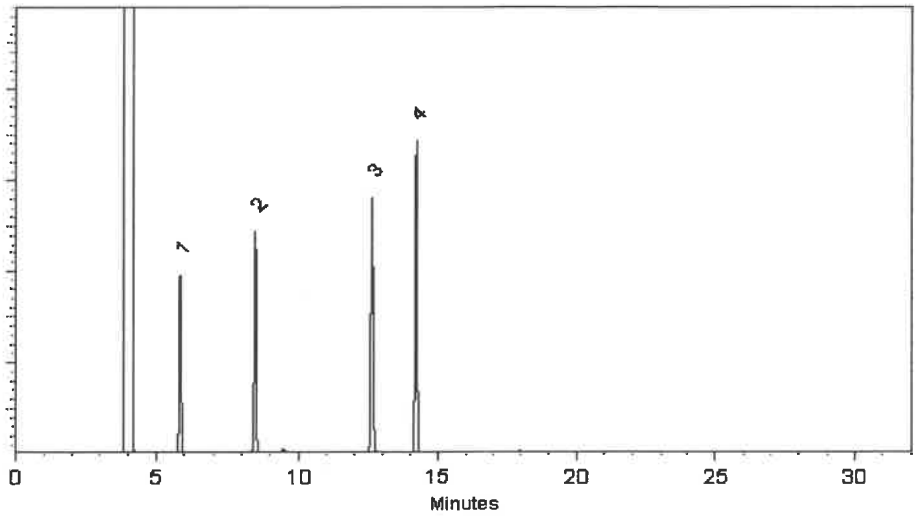
Inj. Temp:
200°C

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.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-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 V.4

Certificate of Analysis

chromatographic plus

V14697-to-14726

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.:** A0210618

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 : July 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	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* 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.)

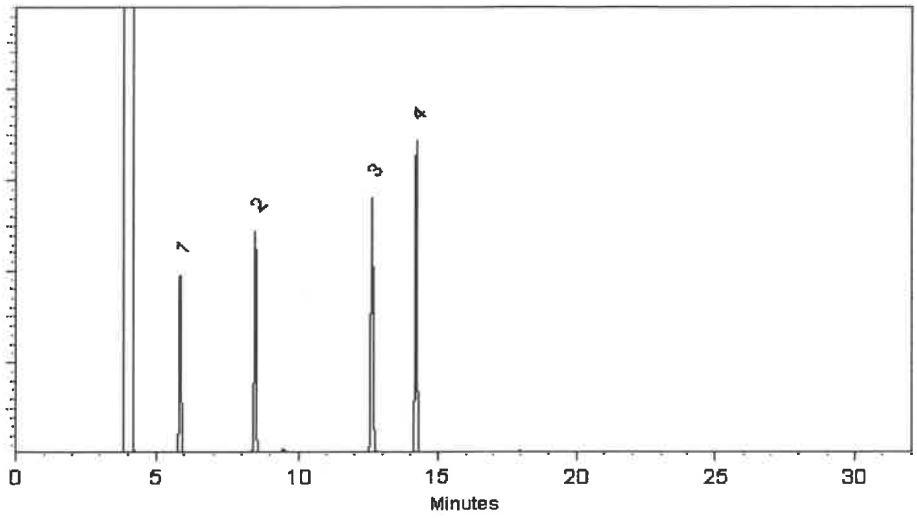
Inj. Temp:
200°C

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.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-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.)

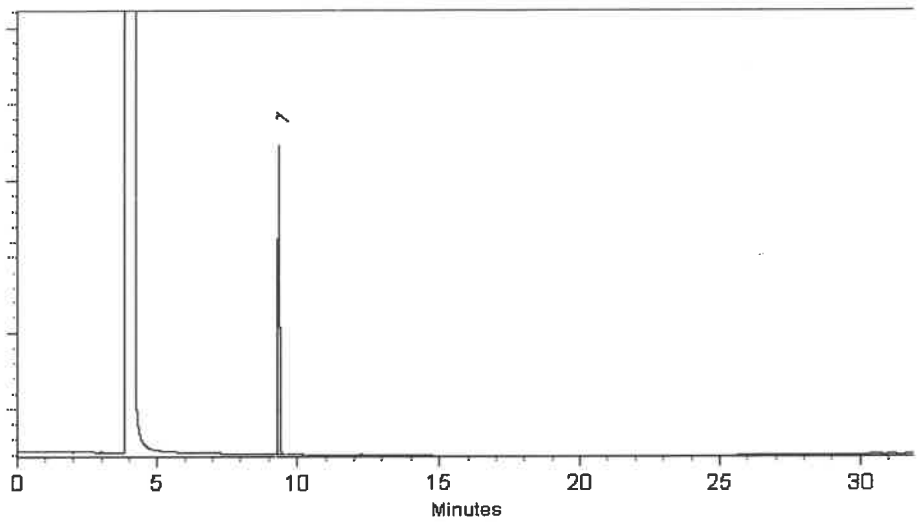
Inj. Temp:
200°C

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
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.)

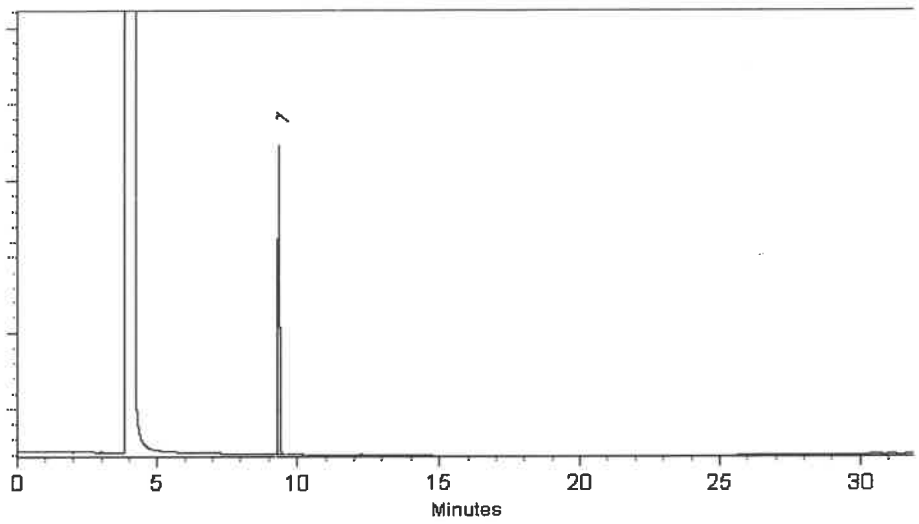
Inj. Temp:
200°C

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.)

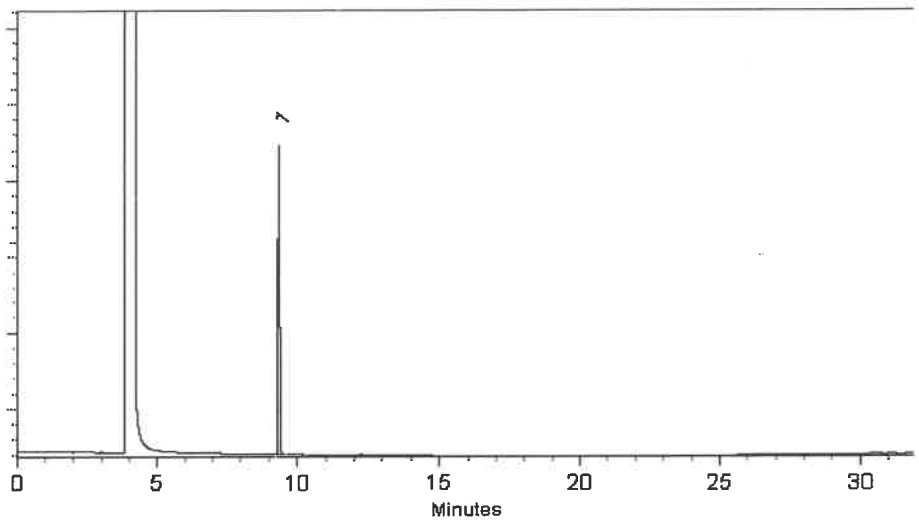
Inj. Temp:
200°C

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.)

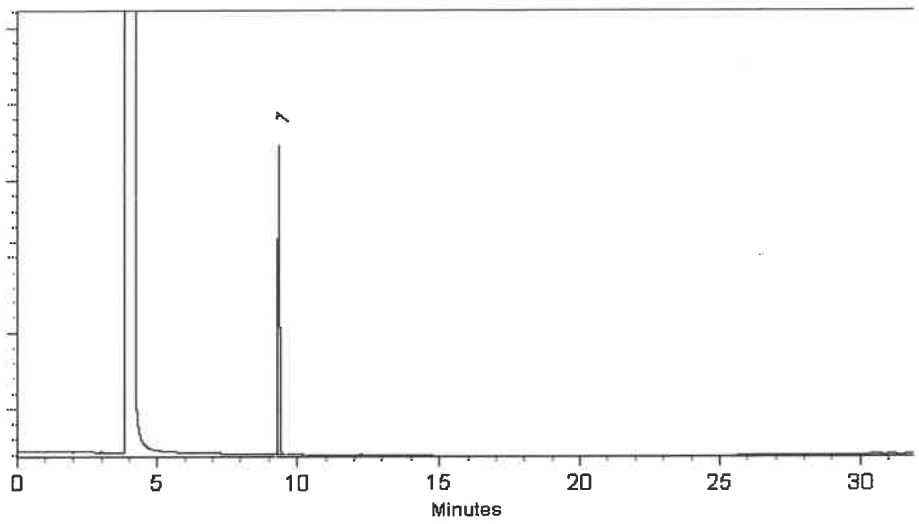
Inj. Temp:
200°C

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.

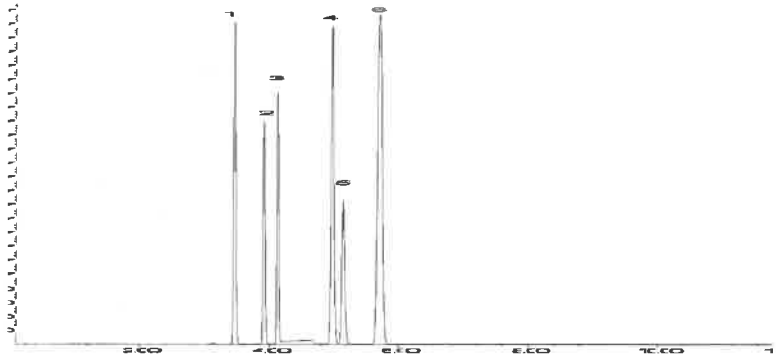
Inj. Temp:
200°C

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.

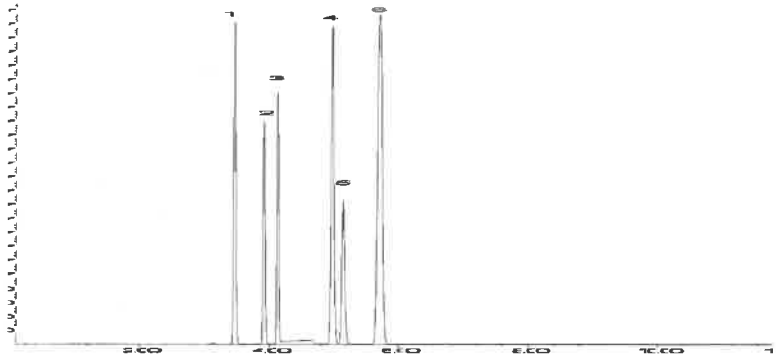
Inj. Temp:
200°C

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

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

J14842 to 14846

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.)

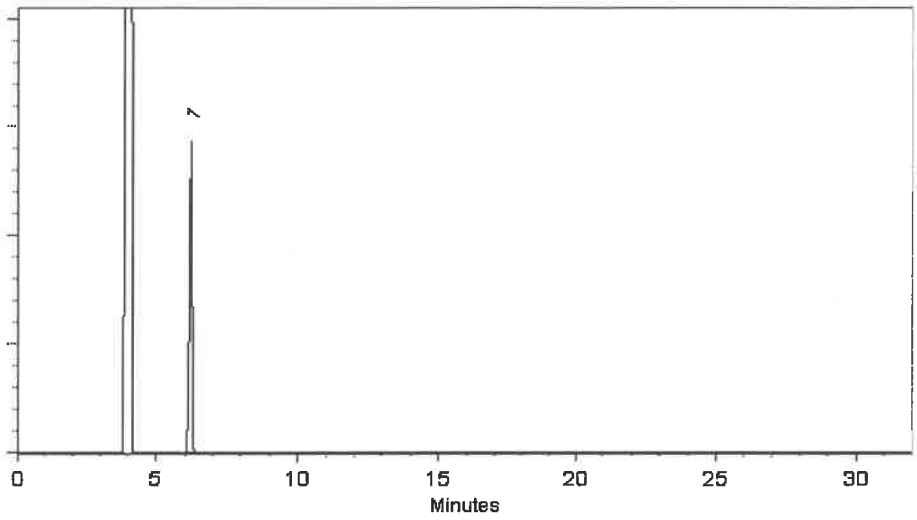
Inj. Temp:
200°C

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.)

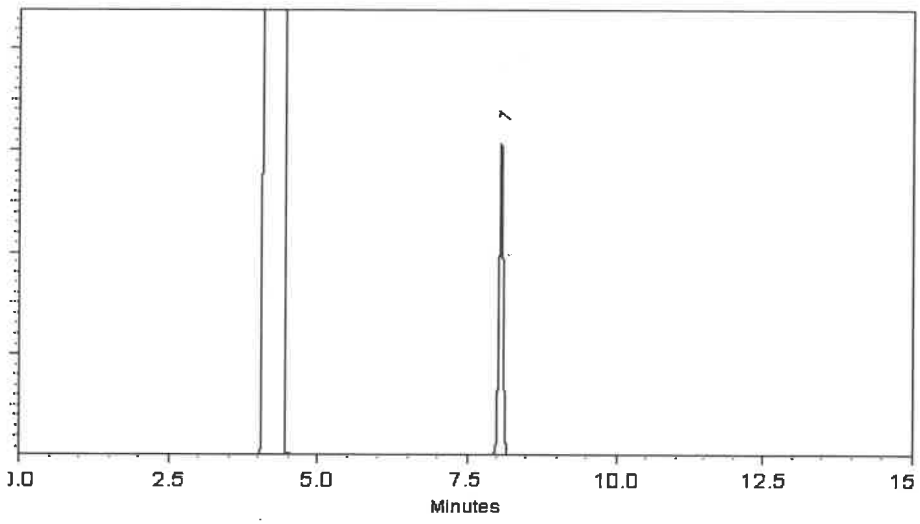
Inj. Temp:
200°C

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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic

V14803 - V14822

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.)

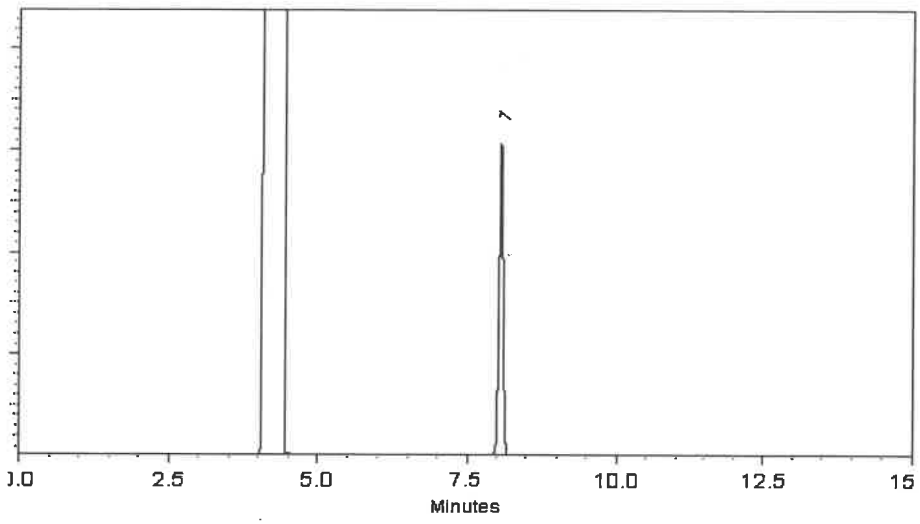
Inj. Temp:
200°C

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.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V 14921 to
V 14938

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 05/21/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

5.0 mg

Part Number:	91980
Lot Number:	051925
Description:	Acrolein
Expiration Date:	061925
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): Water **Lot#** 041725Q

J14944-V14948

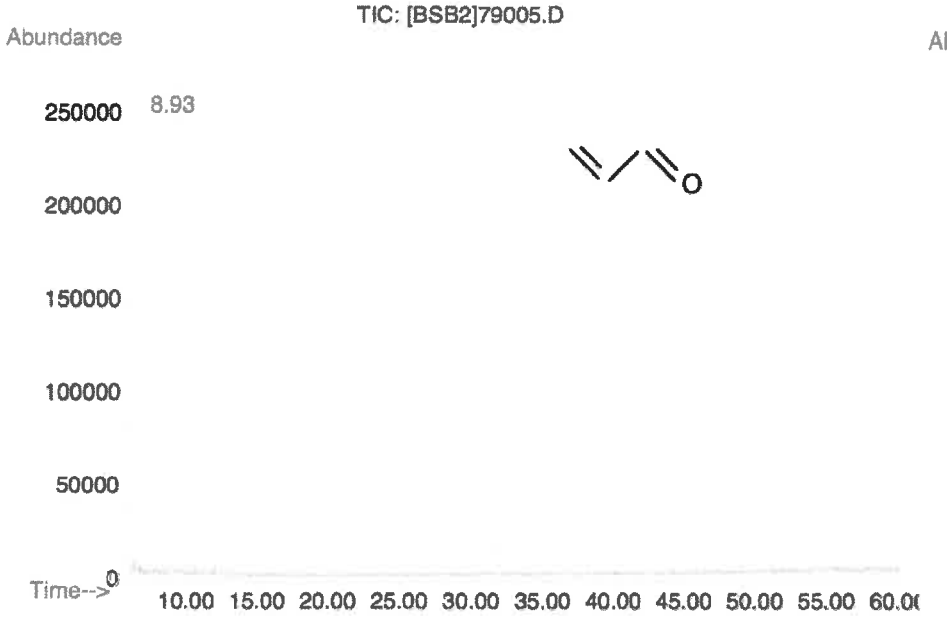
5E-05 Balance Uncertainty

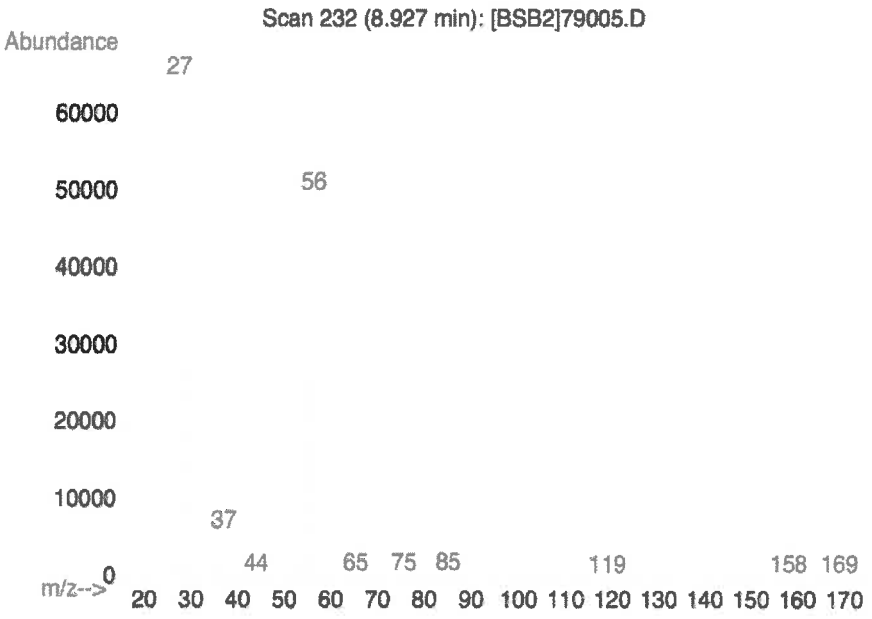
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Lawrence Barry	051925 DATE
Reviewed By:	Pedro L. Rentas	051925 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	0.05170	5004.1	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 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 05/21/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

5.v19

Part Number:	91980
Lot Number:	051925
Description:	Acrolein
Expiration Date:	061925
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): Water **Lot#** 041725Q

J14944-V14948

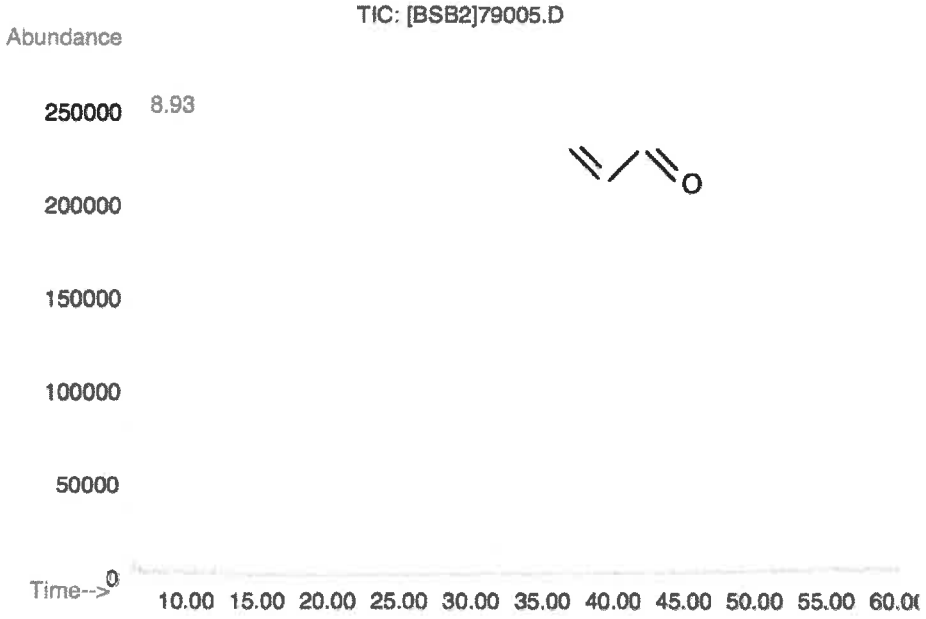
5E-05 Balance Uncertainty

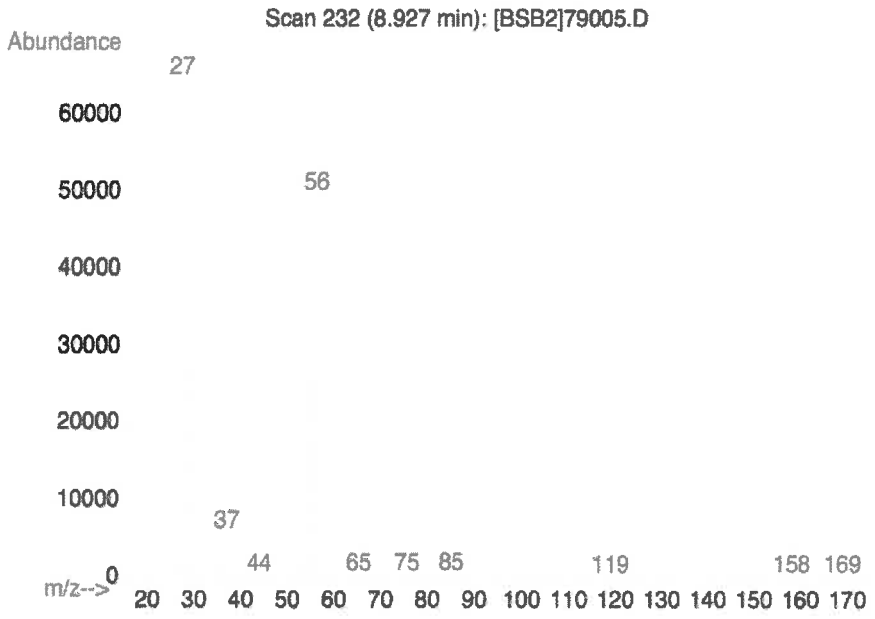
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Lawrence Barry	051925 DATE
Reviewed By:	Pedro L. Rentas	051925 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	0.05170	5004.1	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 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 05/21/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

5.0129

Part Number:	91980
Lot Number:	051925
Description:	Acrolein
Expiration Date:	061925
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): Water **Lot#** 041725Q

J14944-V14948

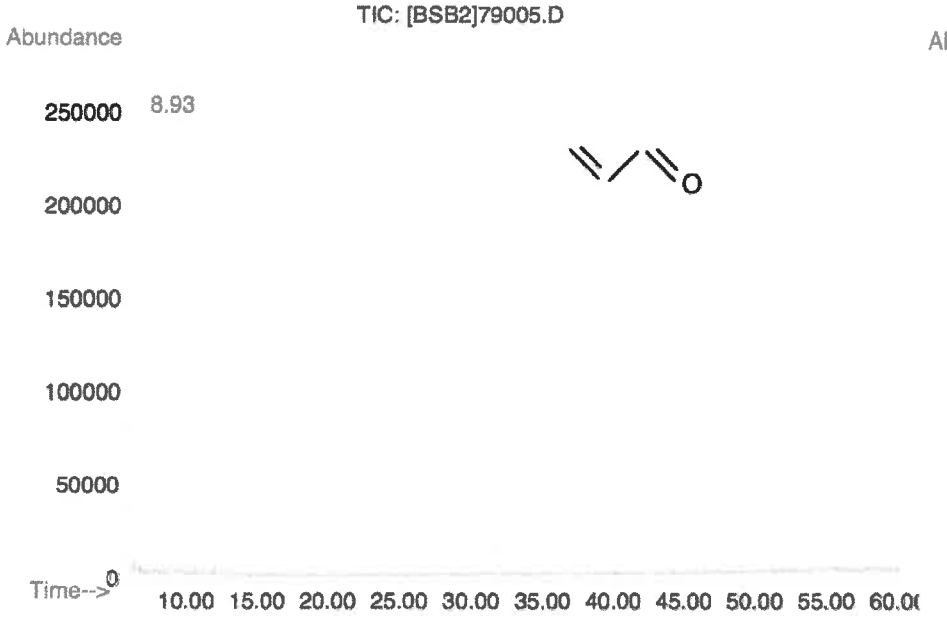
5E-05 Balance Uncertainty

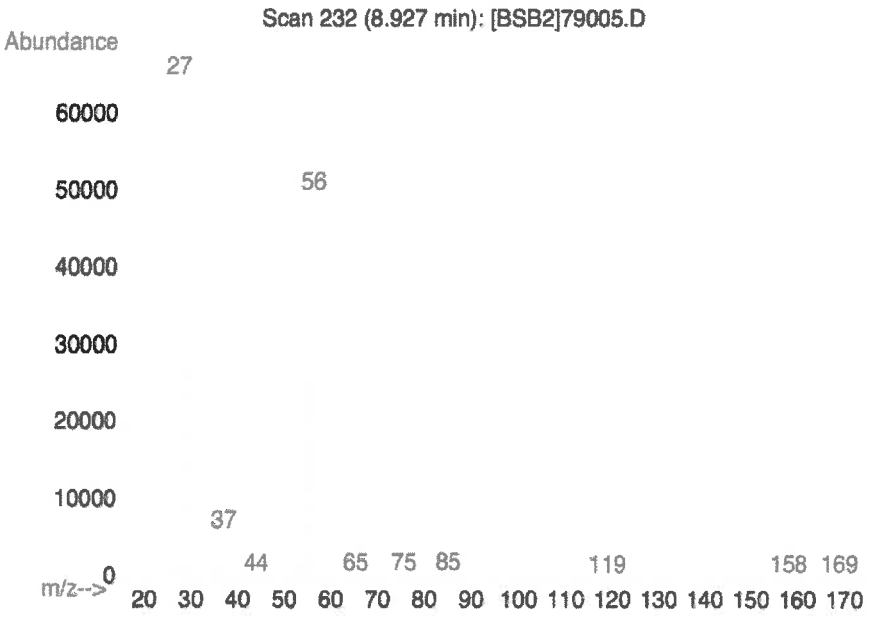
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By: Lawrence Barry	051925 DATE
Reviewed By: Pedro L. Rentas	051925 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	0.05170	5004.1	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 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 05/21/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

5.v19

Part Number:	91980
Lot Number:	051925
Description:	Acrolein
Expiration Date:	061925
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): Water **Lot#** 041725Q

J14944-V14948

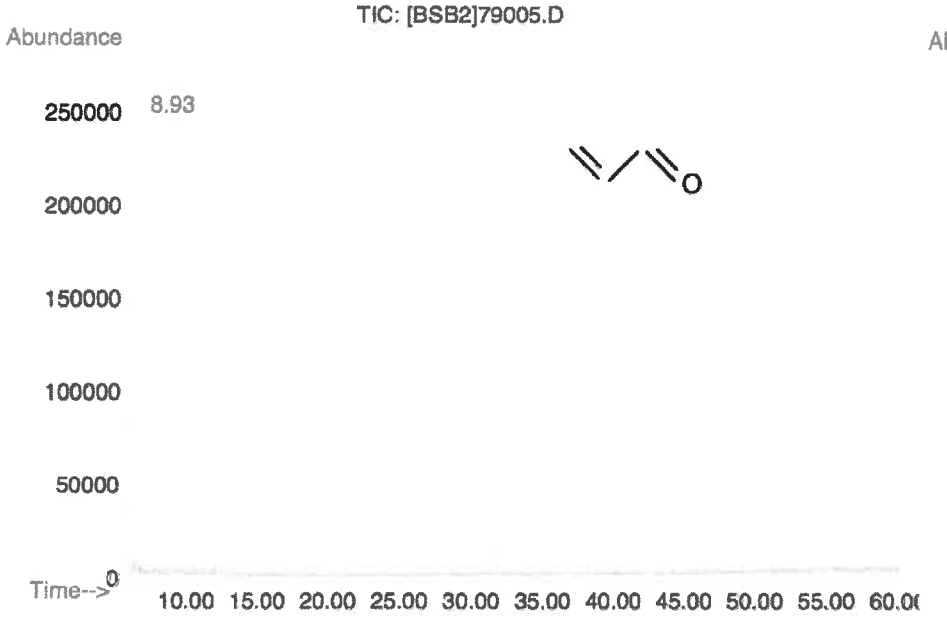
5E-05 Balance Uncertainty

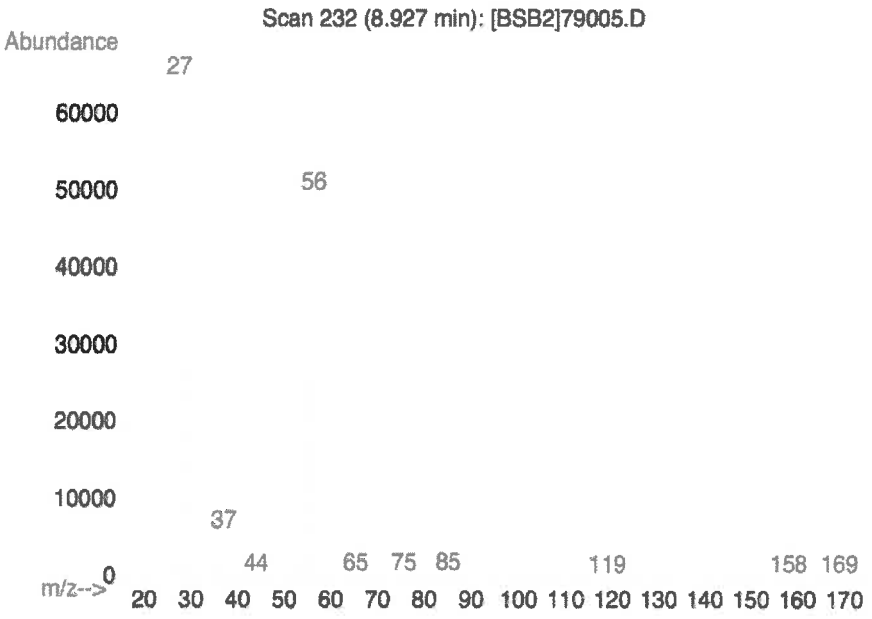
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By:	Lawrence Barry	051925 DATE
Reviewed By:	Pedro L. Rentas	051925 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	0.05170	5004.1	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 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) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q2329
QUOTE NO.
COC Number 2046499 Q2330

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadou
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: Eleanor Vivadou
e-mail: Eleanor.vivadou@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor V. PO#:
ADDRESS: 27 Ellis Place
CITY OSSINING STATE: NY ZIP: 10563
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1: VOCS 8260 | 2: 1,4 dioxane 8270 | 3: 1,4 dioxane SIM 522 | 4 | 5 | 6 | 7 | 8 | 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	F	F							← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER
1.	TT192D1-20250611	GW		X	06/11/25	1450	3	2	1								
2.	TT188S1-20250612	GW		X	06/12/25	1005	3	2	1								
3.	TT195S1-20250612	GW		X	↓	1140	3	2	1								
4.	FB01-20250613	AQ		X	06/13/25	1025	3	2	1								field blank
5.	TT162S1-20250613	GW		X		1005	3	2	1								
6.	BPOW6-7-20250613	GW		X		0930	4	2		2							
7.	BPOW6-8-20250613	GW		X		0955	4	2		2							
8.	BPOW6-11-20250613	GW		X		0950	4	2		2							
9.	TT149S1-20250613	GW		X		1130	3	2	1								
10.	TT172S1-20250613	GW		X	↓	1140	9	6	3								MS/MSD

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Mario Acevedo	6-13-25 1400	1.	6-13-25 1400
2.		2.	
3.	6-13-25 1855	3.	

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.3 °C
Comments:

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q23291
COC Number 20464960Q3330

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: Eleanor Vivaldo
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 60731872 LOCATION: BETHPAGE
PROJECT MANAGER: Eleanor Vivaldo
e-mail: Eleanor.Vivaldo@aecom.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor V. PO#:
ADDRESS: 27 Ellis Place
CITY OSSINING STATE: NY ZIP: 10562
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ US EPA CLP
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1: voas 8260 2: 1,4 dioxane 8270sim 3: 1,4 dioxane 522 4: 5: 6: 7: 8: 9:

PRESERVATIVES

A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
								A	F	F							← Specify Preservatives
1.	DUP03-20250613	GW		X	06/13	1100	4	2		2							
2.	DUP04-20250613	GW		X	06/13	1300	3	2	1								
3.	EB01-20250613	AQ		X	06/13	1250	3	2	1								equipment blank
4.	TB01-20250612	AQ		X	06/12	1300	2	2									trip blank
5.	TB02-20250612	AQ		X	06/12	1305	2	2									trip blank
6.	TT16351-20250613	GW		X	06/13	1130	3	2	1								
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1. Mohammad Achek	1400 6-13-25	1.	1400 6-13-25
2.		2.	
3.	1855 6-13-25	3.	

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.5 °C
Comments:

Page 2 of 2

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

Laboratory Certification

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2329 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 6/13/2025 2:09:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 6/13/2025 ~~12:00:00 AM~~ 18:55
Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2329-01	TT192D1-20250611	Water	06/13/2025	14:50	VOCMS Group1		8260-Low		10 Bus. Days
Q2329-02	TT188S1-20250612	Water	06/13/2025	10:05	VOCMS Group1		8260-Low		10 Bus. Days
Q2329-03	TT119S1-20250612	Water	06/13/2025	11:40	VOCMS Group1		8260-Low		10 Bus. Days
Q2329-04	FB01-20250613	Water	06/13/2025	10:25	VOCMS Group1		8260-Low		10 Bus. Days
Q2329-05	TT162S1-20250613	Water	06/13/2025	10:05	VOCMS Group1		8260-Low		10 Bus. Days
Q2329-06	BPOW6-7-20250613	Water	06/13/2025	09:30	VOCMS Group1		8260-Low		10 Bus. Days
Q2329-07	BPOW6-8-20250613	Water	06/13/2025	09:55	VOCMS Group1		8260-Low		10 Bus. Days
Q2329-08	BPOW6-11-20250613	Water	06/13/2025	09:50					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2329 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 6/13/2025 2:09:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 6/13/2025 ~~12:00:00 AM~~ 18:55
Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days		
Q2329-09	TT149S1-20250613	Water	06/13/2025	11:30						
					VOCMS Group1		8260-Low	10 Bus. Days		
Q2329-10	TT172S1-20250613	Water	06/13/2025	11:40						
					VOCMS Group1		8260-Low	10 Bus. Days		
Q2329-11	Q2329-10MS	Water	06/13/2025	11:40						
					VOCMS Group1		8260-Low	10 Bus. Days		
Q2329-12	Q2329-10MSD	Water	06/13/2025	11:40						
					VOCMS Group1		8260-Low	10 Bus. Days		
Q2329-13	DUP03-20250613	Water	06/13/2025	14:00						
					VOCMS Group1		8260-Low	10 Bus. Days		
Q2329-14	DUP04-20250613	Water	06/13/2025	13:00						
					VOCMS Group1		8260-Low	10 Bus. Days		
Q2329-15	EB01-20250613	Water	06/13/2025	12:50						
					VOCMS Group1		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 : Q2329 AECO15
Client Name : AECOM Technical Service
Client Contact : Eleanor Vivadou
Invoice Name : AECOM Technical Service
Invoice Contact : Eleanor Vivadou

Order Date : 6/13/2025 2:09:00 PM
Project Name : NAVFAC NWIRP Bethpage
Receive DateTime : 6/13/2025 ~~12:00:00 AM~~ 18:55
Purchase Order :

Project Mgr :
Report Type : ~~Results Only~~ NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2329-16	TB01-20250613	Water	06/~~13~~12/2025	13:00					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2329-17	TB02-20250613	Water	06/~~13~~12/2025	13:05					
					VOCMS Group1		8260-Low		10 Bus. Days
Q2329-18	TT163S1-20250613	Water	06/13/2025	11:30					
					VOCMS Group1		8260-Low		10 Bus. Days

Relinguished By :
Date / Time : 6/16/25 0900

Received By :
Date / Time : 06/16/25 9:00
Storage Area : VOA Refridgerator Room Reff 4

SAMPLES RECEIVED ON 6/13/25 @ 1855
PLACED IN SM-REF-2

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086862.D
Acq On : 06 Jun 2025 12:44
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Quant Time: Jun 07 01:54:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	212682	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	393457	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	348010	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167399	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.594	65	3429	1.204	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	2.400%#		
35) Dibromofluoromethane	8.171	113	2626	1.126	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	2.260%#		
50) Toluene-d8	10.570	98	10645	1.153	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	2.300%#		
62) 4-Bromofluorobenzene	12.853	95	4252	1.240	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	2.480%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	1985	0.936	ug/l	72
3) Chloromethane	2.400	50	3241	1.184	ug/l	98
4) Vinyl Chloride	2.559	62	2848	1.008	ug/l #	88
5) Bromomethane	3.006	94	1886	1.193	ug/l	93
6) Chloroethane	3.159	64	1957	1.073	ug/l #	79
7) Trichlorofluoromethane	3.530	101	3752	1.017	ug/l	97
8) Diethyl Ether	3.994	74	1583	0.984	ug/l	76
9) 1,1,2-Trichlorotrifluo...	4.394	101	1332	0.574	ug/l #	55
10) Methyl Iodide	4.624	142	3165	1.053	ug/l #	67
11) Tert butyl alcohol	5.547	59	4268	5.524	ug/l #	77
12) 1,1-Dichloroethene	4.365	96	2436	1.029	ug/l	85
13) Acrolein	4.194	56	1467	5.998	ug/l	85
14) Allyl chloride	5.041	41	4189	1.067	ug/l #	75
15) Acrylonitrile	5.735	53	9222	5.106	ug/l	96
16) Acetone	4.459	43	9069	6.006	ug/l	95
17) Carbon Disulfide	4.730	76	7306	1.116	ug/l	97
18) Methyl Acetate	5.053	43	4402	1.000	ug/l #	66
19) Methyl tert-butyl Ether	5.824	73	9019	1.052	ug/l	92
20) Methylene Chloride	5.294	84	3496	1.237	ug/l	93
21) trans-1,2-Dichloroethene	5.800	96	2979	1.131	ug/l	87
22) Diisopropyl ether	6.682	45	8584	1.037	ug/l #	96
23) Vinyl Acetate	6.618	43	37075	5.303	ug/l	95
24) 1,1-Dichloroethane	6.588	63	5071	1.065	ug/l #	81
25) 2-Butanone	7.500	43	12841	5.231	ug/l	93
26) 2,2-Dichloropropane	7.500	77	4112	1.110	ug/l	94
27) cis-1,2-Dichloroethene	7.494	96	3345	1.062	ug/l	95
28) Bromochloromethane	7.824	49	2464	1.052	ug/l #	88
29) Tetrahydrofuran	7.853	42	8301	5.191	ug/l	100
30) Chloroform	7.971	83	5255	1.105	ug/l	97
31) Cyclohexane	8.247	56	9143	1.980	ug/l #	28
32) 1,1,1-Trichloroethane	8.171	97	4378	1.082	ug/l #	50
36) 1,1-Dichloropropene	8.376	75	3678	1.059	ug/l	96
37) Ethyl Acetate	7.577	43	4282	0.968	ug/l #	78
38) Carbon Tetrachloride	8.376	117	3563	1.045	ug/l #	93
39) Methylcyclohexane	9.606	83	4981	1.046	ug/l #	90
40) Benzene	8.612	78	12498	1.100	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086862.D
Acq On : 06 Jun 2025 12:44
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Quant Time: Jun 07 01:54:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.782	41	2799	1.127 ug/l	89
42) 1,2-Dichloroethane	8.682	62	3725	1.081 ug/l	82
43) Isopropyl Acetate	8.694	43	7673	1.081 ug/l #	96
44) Trichloroethene	9.365	130	2822	1.047 ug/l	71
45) 1,2-Dichloropropane	9.629	63	2883	1.043 ug/l	95
46) Dibromomethane	9.712	93	1835	0.999 ug/l	94
47) Bromodichloromethane	9.888	83	4017	1.063 ug/l #	96
48) Methyl methacrylate	9.688	41	3492	1.069 ug/l	88
49) 1,4-Dioxane	9.706	88	1004	16.891 ug/l #	74
51) 4-Methyl-2-Pentanone	10.453	43	19886	4.653 ug/l	99
52) Toluene	10.635	92	7227	1.041 ug/l	95
53) t-1,3-Dichloropropene	10.841	75	4494	1.064 ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	4792	1.060 ug/l	97
55) 1,1,2-Trichloroethane	11.023	97	2828	1.058 ug/l	89
56) Ethyl methacrylate	10.882	69	3406	0.800 ug/l #	85
57) 1,3-Dichloropropane	11.170	76	5062	1.092 ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	10924	4.304 ug/l	97
59) 2-Hexanone	11.235	43	5016	1.822 ug/l #	35
60) Dibromochloromethane	11.359	129	2843	1.021 ug/l	96
61) 1,2-Dibromoethane	11.470	107	2777	1.014 ug/l	96
64) Tetrachloroethene	11.106	164	2473	1.123 ug/l	94
65) Chlorobenzene	11.894	112	8581	1.118 ug/l #	87
66) 1,1,1,2-Tetrachloroethane	11.959	131	2523	1.023 ug/l #	63
67) Ethyl Benzene	11.970	91	13845	1.047 ug/l	94
68) m/p-Xylenes	12.070	106	10163	2.008 ug/l	95
69) o-Xylene	12.400	106	4970	1.025 ug/l	93
70) Styrene	12.417	104	8189	0.987 ug/l	98
71) Bromoform	12.582	173	1508	0.825 ug/l #	78
73) Isopropylbenzene	12.694	105	12938	1.061 ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.935	83	4326	1.047 ug/l #	93
76) 1,2,3-Trichloropropane	13.000	75	5925	1.484 ug/l	65
77) Bromobenzene	12.982	156	2913	1.042 ug/l	96
78) n-propylbenzene	13.035	91	15168	1.023 ug/l	98
79) 2-Chlorotoluene	13.123	91	9550	1.074 ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	10058	0.999 ug/l	96
81) trans-1,4-Dichloro-2-b...	12.741	75	1392	0.805 ug/l	92
82) 4-Chlorotoluene	13.223	91	9706	1.079 ug/l	96
83) tert-Butylbenzene	13.435	119	9849	1.069 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	9882	0.979 ug/l	99
85) sec-Butylbenzene	13.617	105	13775	1.029 ug/l	100
86) p-Isopropyltoluene	13.729	119	11065	1.000 ug/l	97
87) 1,3-Dichlorobenzene	13.735	146	5903	1.073 ug/l	94
88) 1,4-Dichlorobenzene	13.735	146	5903	1.052 ug/l	93
89) n-Butylbenzene	14.058	91	11627	1.085 ug/l	94
90) Hexachloroethane	14.329	117	1942	1.036 ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	5607	1.061 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	1136	1.150 ug/l	78
93) 1,2,4-Trichlorobenzene	15.388	180	3489	1.034 ug/l	98
94) Hexachlorobutadiene	15.500	225	1219	0.969 ug/l	88
95) Naphthalene	15.635	128	12789	1.018 ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	3594	1.072 ug/l	96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086862.D
Acq On : 06 Jun 2025 12:44
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Quant Time: Jun 07 01:54:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

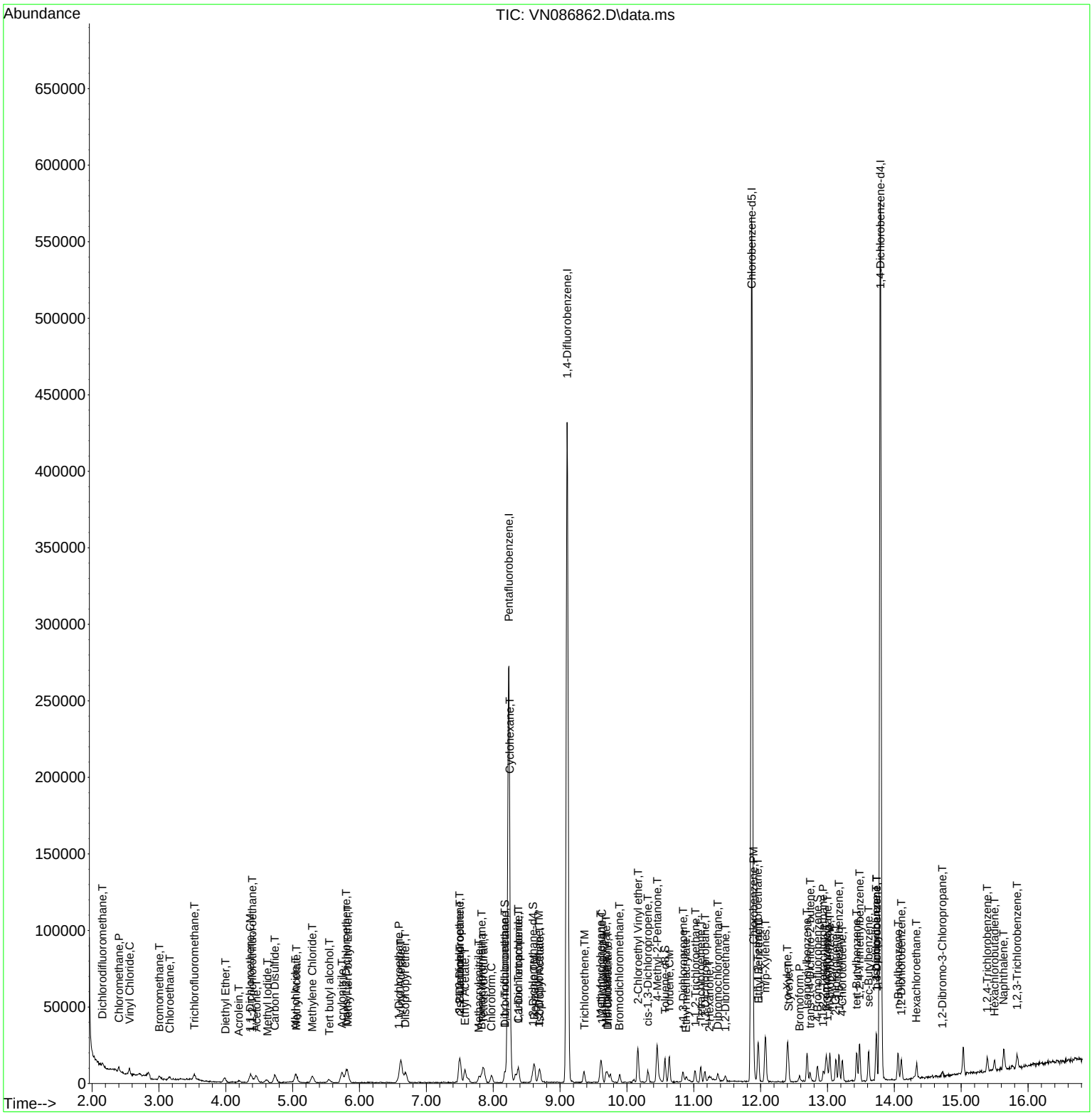
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

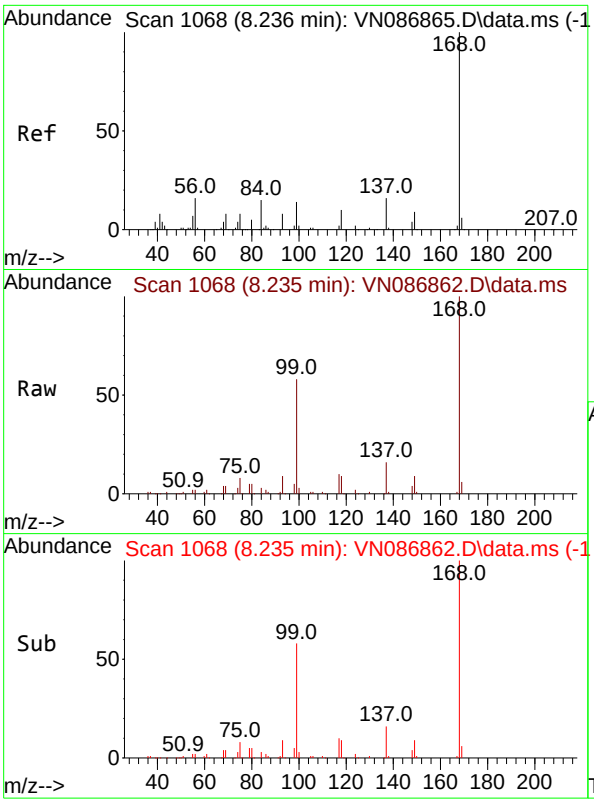
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086862.D
Acq On : 06 Jun 2025 12:44
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Quant Time: Jun 07 01:54:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration



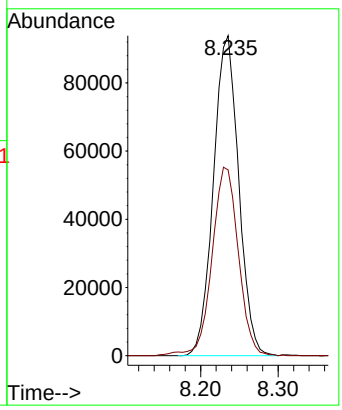


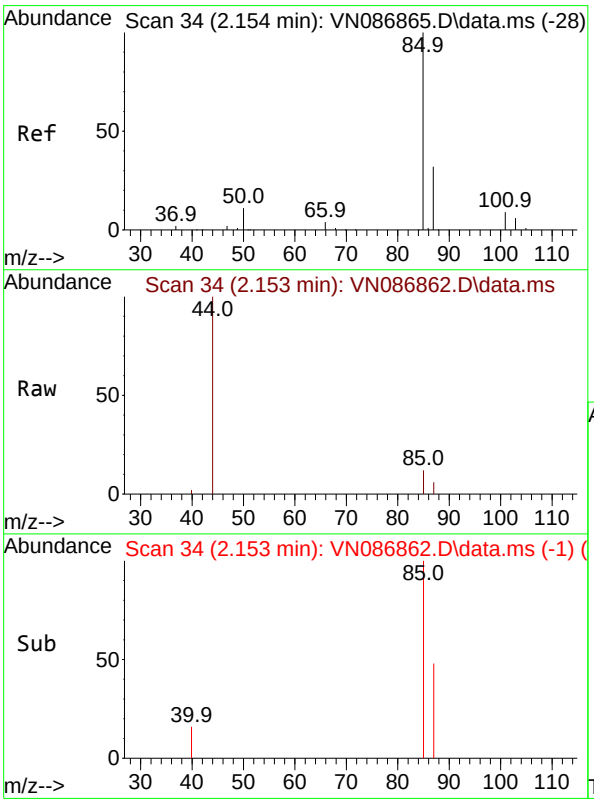
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 212682

Ion	Ratio	Lower	Upper
168	100		
99	58.1	49.1	73.7

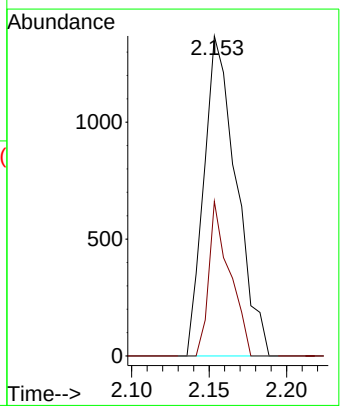


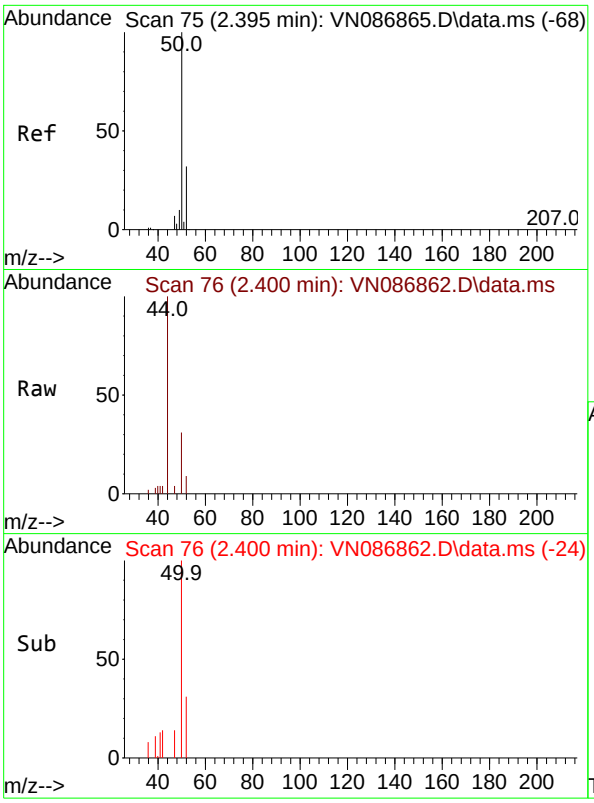


#2
Dichlorodifluoromethane
Concen: 0.936 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 85 Resp: 1985

Ion	Ratio	Lower	Upper
85	100		
87	48.3	16.2	48.6



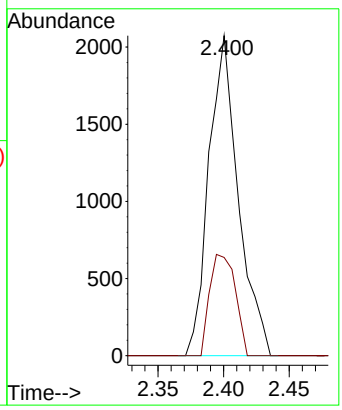


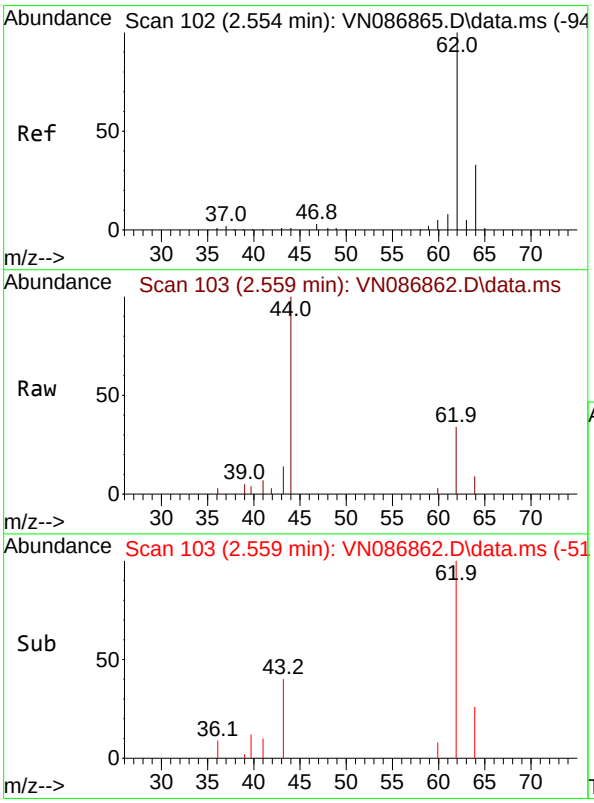
#3
Chloromethane
Concen: 1.184 ug/l
RT: 2.400 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 3241

Ion	Ratio	Lower	Upper
50	100		
52	30.7	25.7	38.5

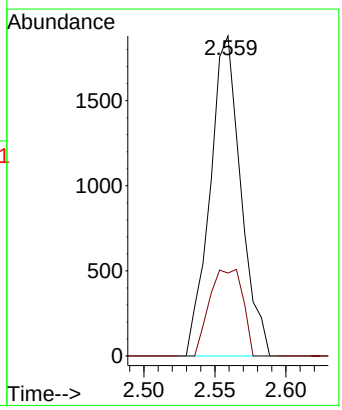


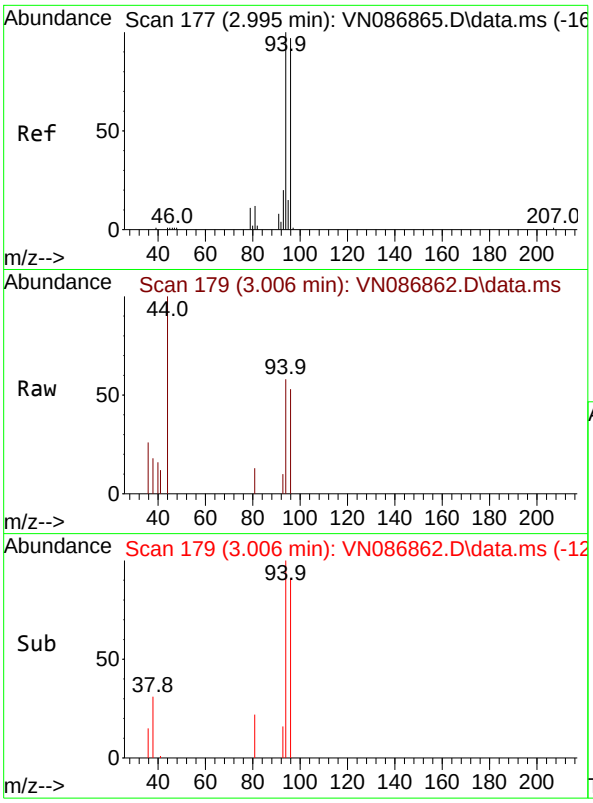


#4
Vinyl Chloride
Concen: 1.008 ug/l
RT: 2.559 min Scan# 103
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 62 Resp: 2848

Ion	Ratio	Lower	Upper
62	100		
64	25.9	26.0	39.0#



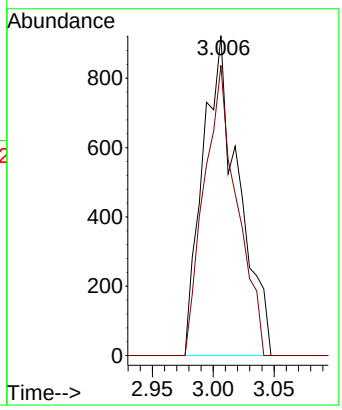


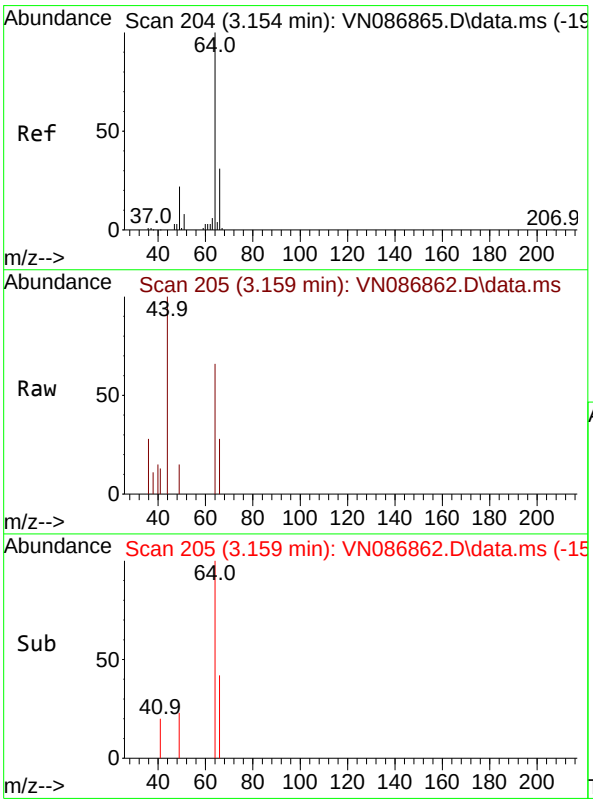
#5
Bromomethane
Concen: 1.193 ug/l
RT: 3.006 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 94 Resp: 1886

Ion	Ratio	Lower	Upper
94	100		
96	90.7	77.9	116.9

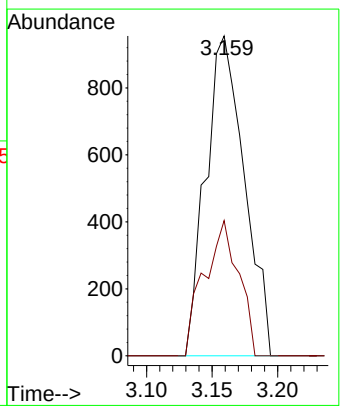


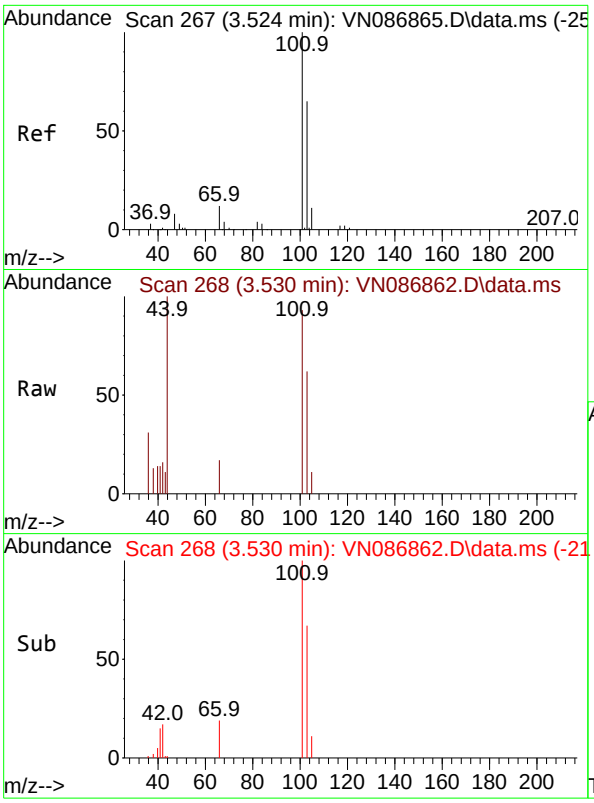


#6
Chloroethane
Concen: 1.073 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 64 Resp: 1957

Ion	Ratio	Lower	Upper
64	100		
66	42.3	24.6	36.8#



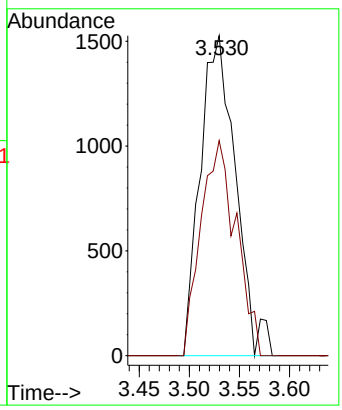


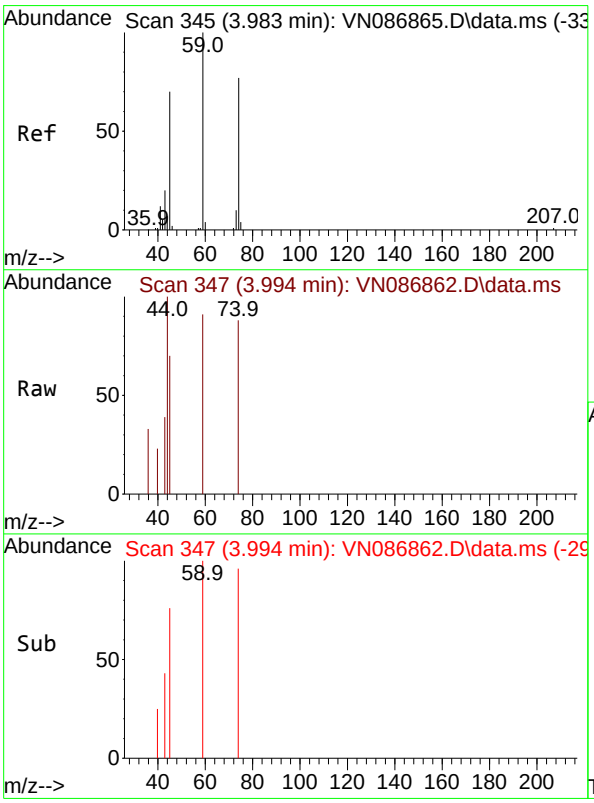
#7
Trichlorofluoromethane
Concen: 1.017 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 3752

Ion	Ratio	Lower	Upper
101	100		
103	67.2	52.2	78.2

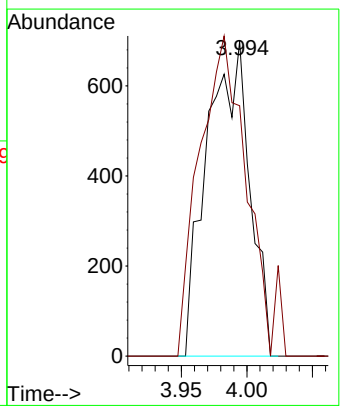


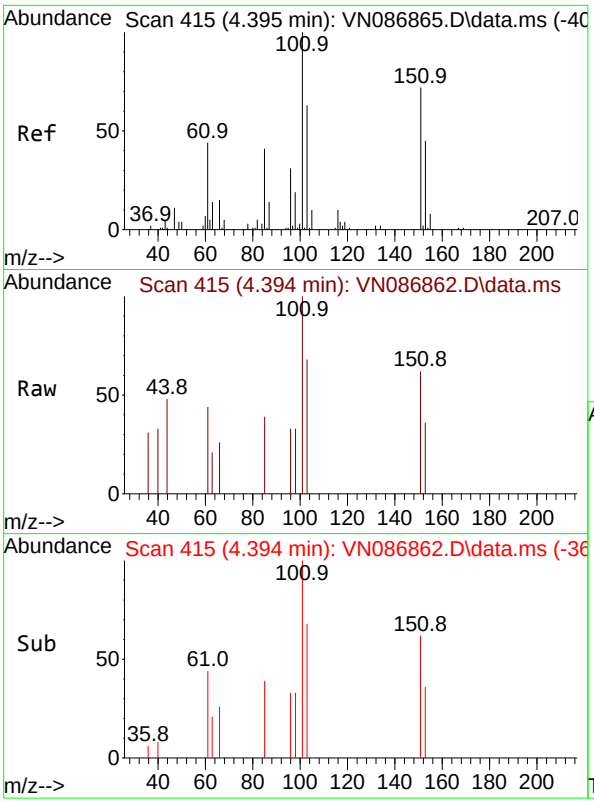


#8
Diethyl Ether
Concen: 0.984 ug/l
RT: 3.994 min Scan# 347
Delta R.T. 0.011 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 74 Resp: 1583

Ion	Ratio	Lower	Upper
74	100		
45	113.8	45.5	136.5



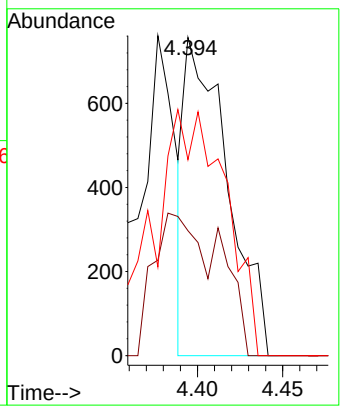


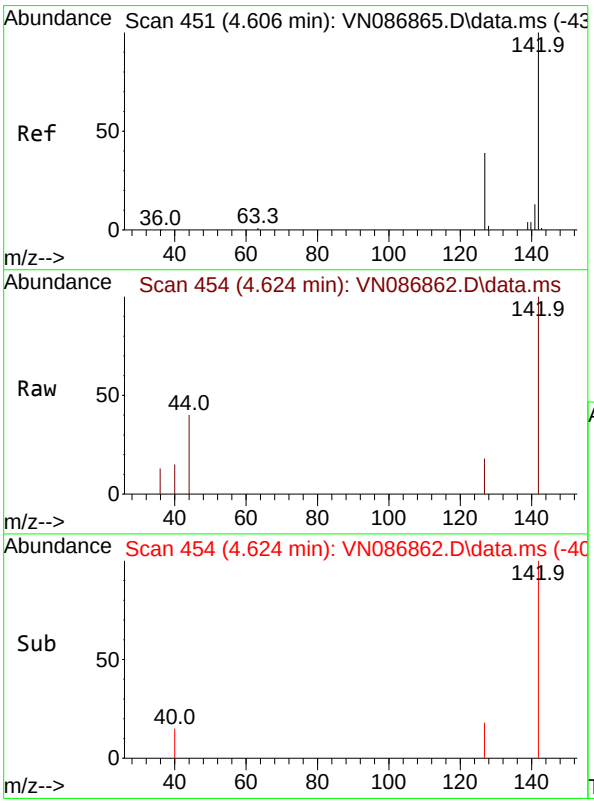
#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.574 ug/l
RT: 4.394 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:101 Resp: 1332

Ion	Ratio	Lower	Upper
101	100		
85	49.2	33.8	50.8
151	127.6	58.7	88.1#

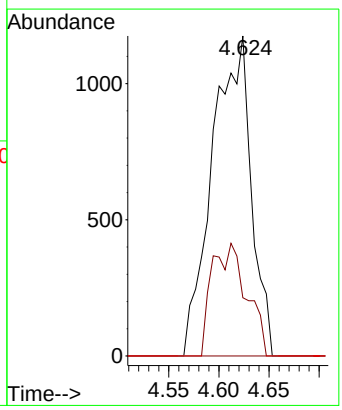


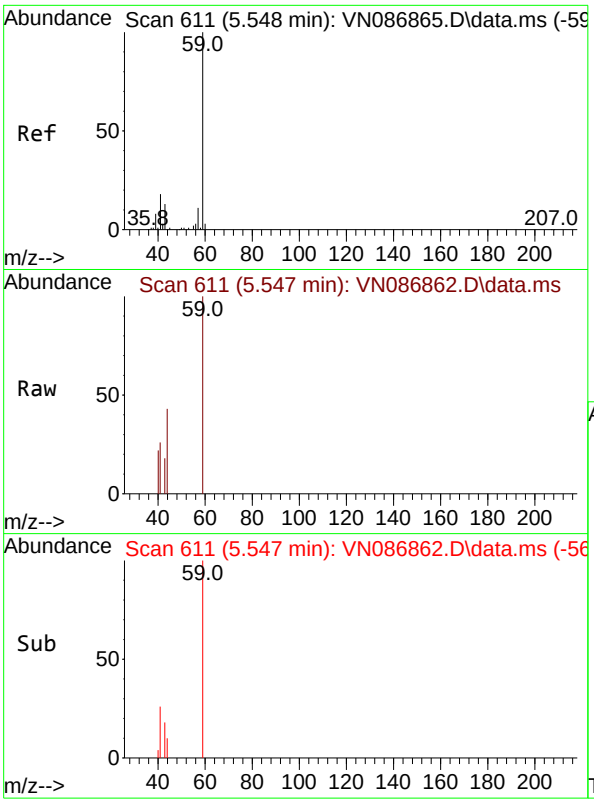


#10
Methyl Iodide
Concen: 1.053 ug/l
RT: 4.624 min Scan# 454
Delta R.T. 0.017 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:142 Resp: 3165

Ion	Ratio	Lower	Upper
142	100		
127	18.2	30.9	46.3#
141	0.0	10.4	15.6#



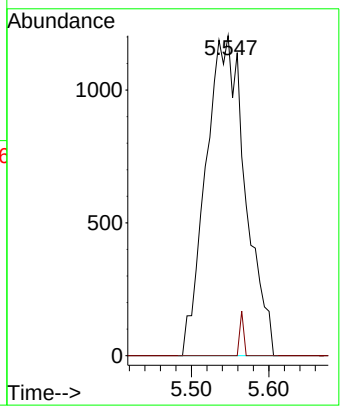


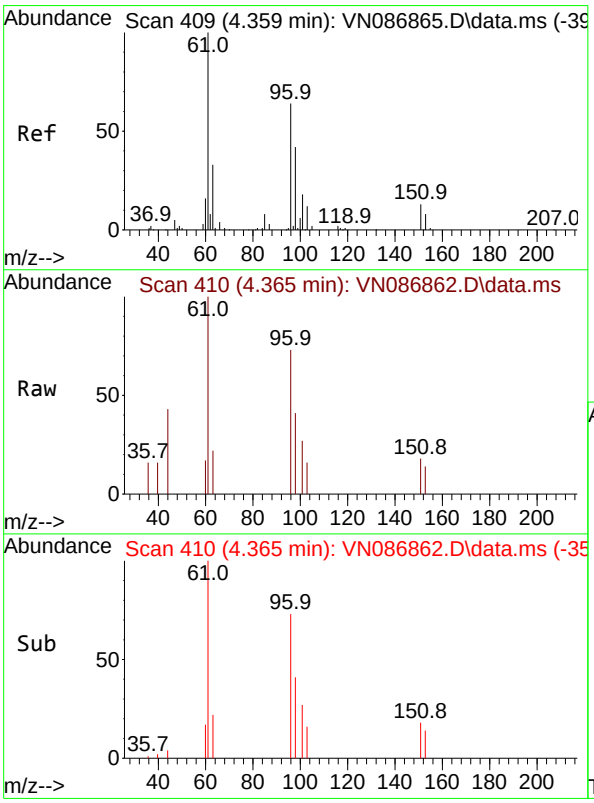
#11
Tert butyl alcohol
Concen: 5.524 ug/l
RT: 5.547 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 59 Resp: 4268

Ion	Ratio	Lower	Upper
59	100		
57	1.4	8.1	12.1#

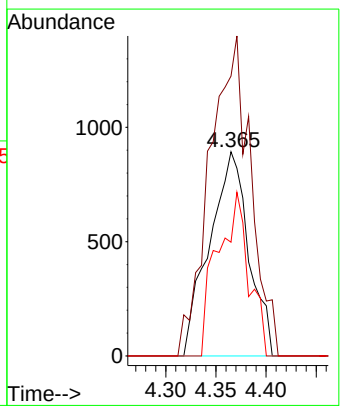


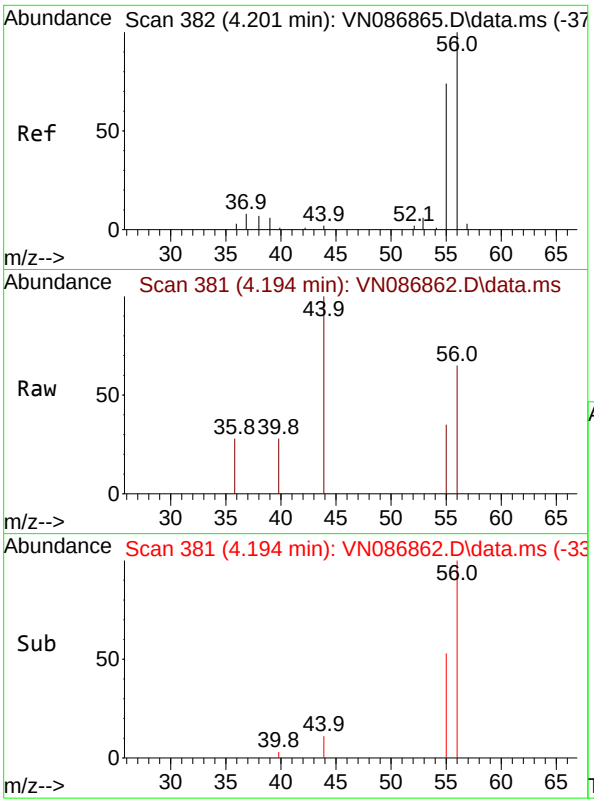


#12
1,1-Dichloroethene
Concen: 1.029 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 96 Resp: 2436

Ion	Ratio	Lower	Upper
96	100		
61	137.1	125.8	188.6
98	55.8	52.5	78.7



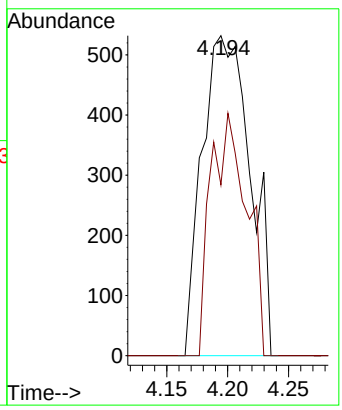


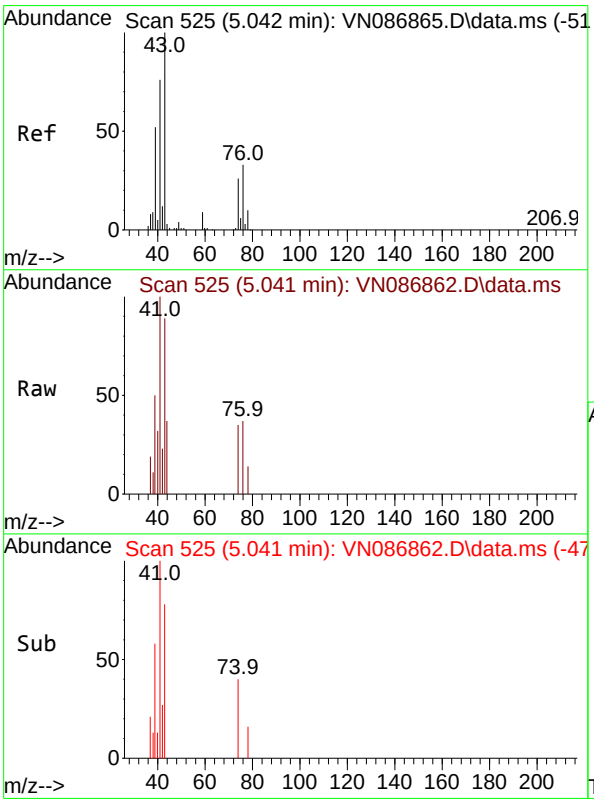
#13
Acrolein
Concen: 5.998 ug/l
RT: 4.194 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 1467

Ion	Ratio	Lower	Upper
56	100		
55	56.9	55.6	83.4

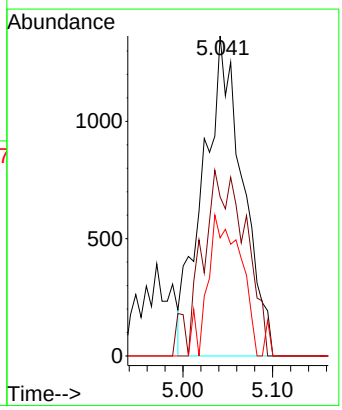


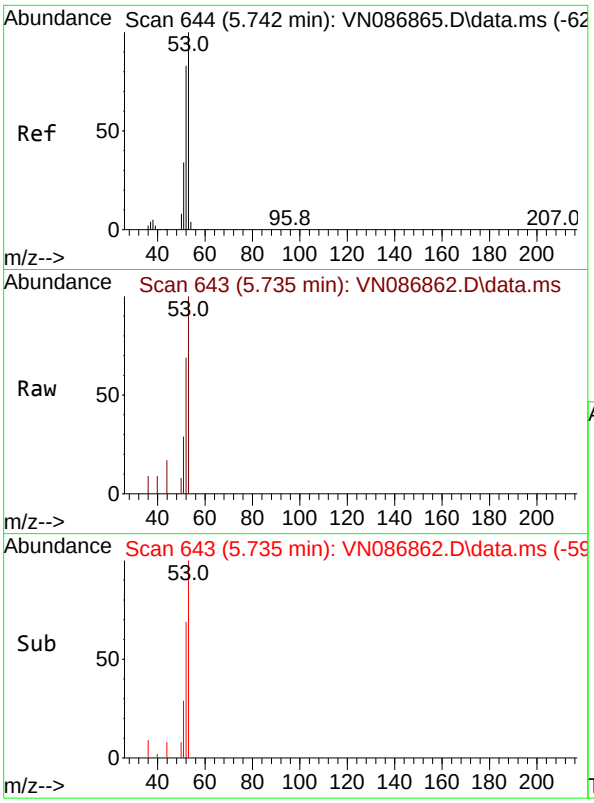


#14
Allyl chloride
Concen: 1.067 ug/l
RT: 5.041 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 41 Resp: 4189

Ion	Ratio	Lower	Upper
41	100		
39	35.3	51.3	76.9#
76	36.4	31.4	47.0



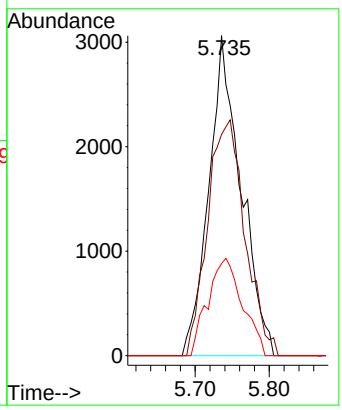


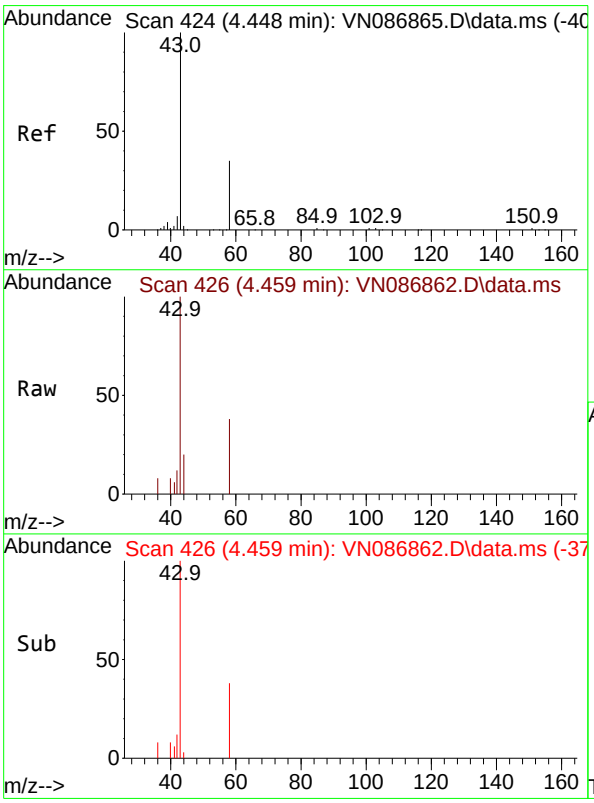
#15
Acrylonitrile
Concen: 5.106 ug/l
RT: 5.735 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 53 Resp: 9222

Ion	Ratio	Lower	Upper
53	100		
52	85.4	65.0	97.6
51	32.7	27.2	40.8

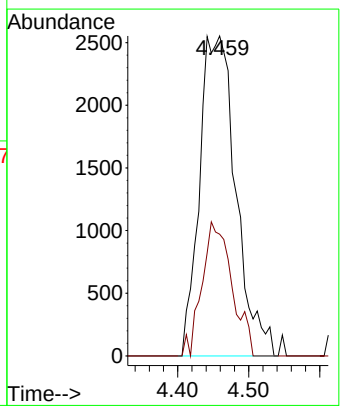


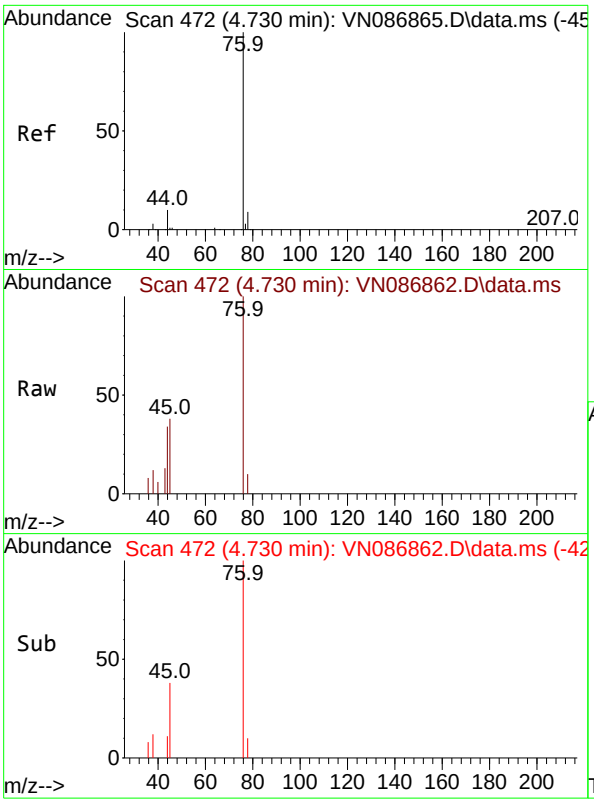


#16
Acetone
Concen: 6.006 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.011 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 43 Resp: 9069

Ion	Ratio	Lower	Upper
43	100		
58	38.0	28.0	42.0



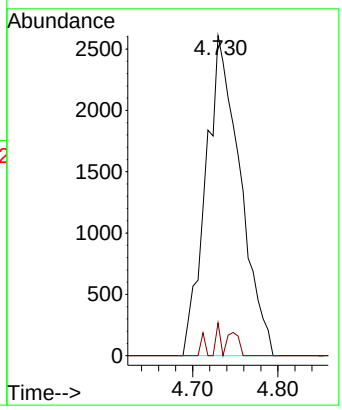


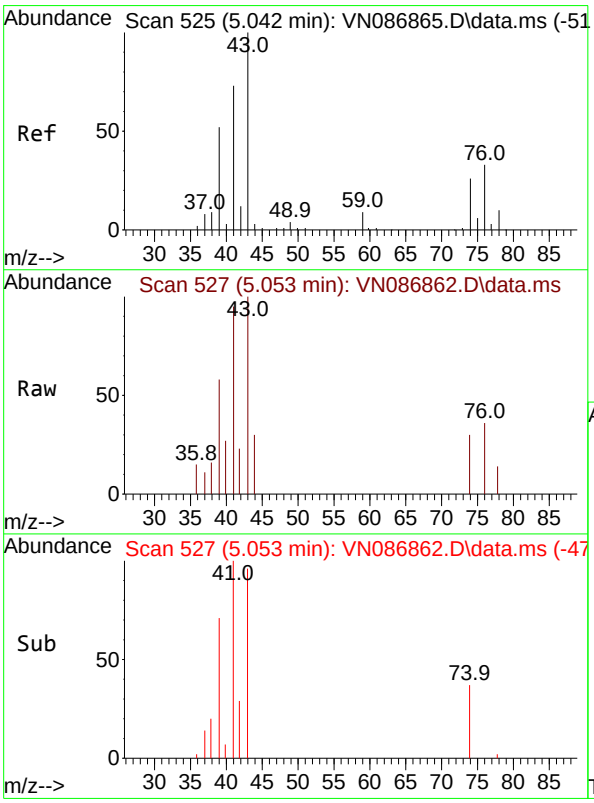
#17
Carbon Disulfide
Concen: 1.116 ug/l
RT: 4.730 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 7306

Ion	Ratio	Lower	Upper
76	100		
78	10.3	7.3	10.9

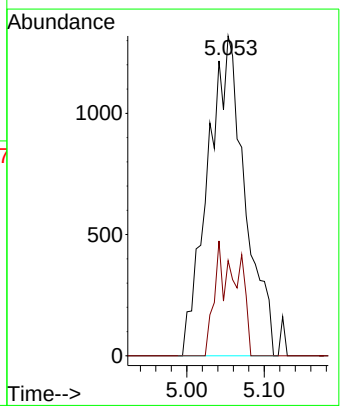


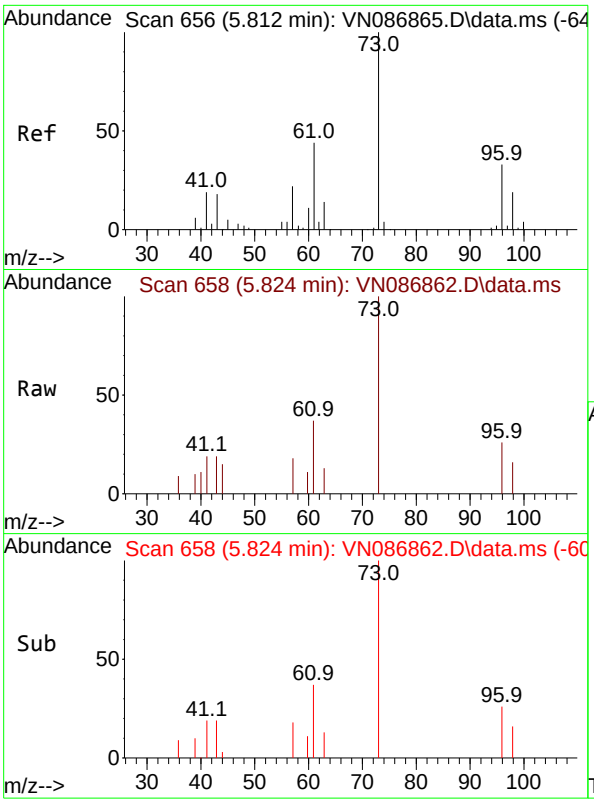


#18
Methyl Acetate
Concen: 1.000 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.011 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 43 Resp: 4402

Ion	Ratio	Lower	Upper
43	100		
74	8.7	20.7	31.1#



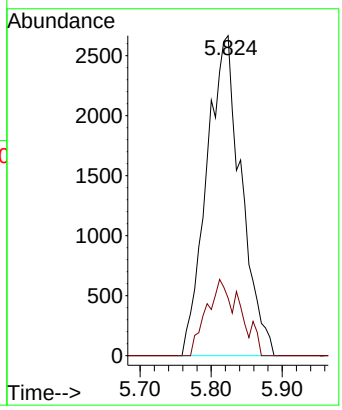


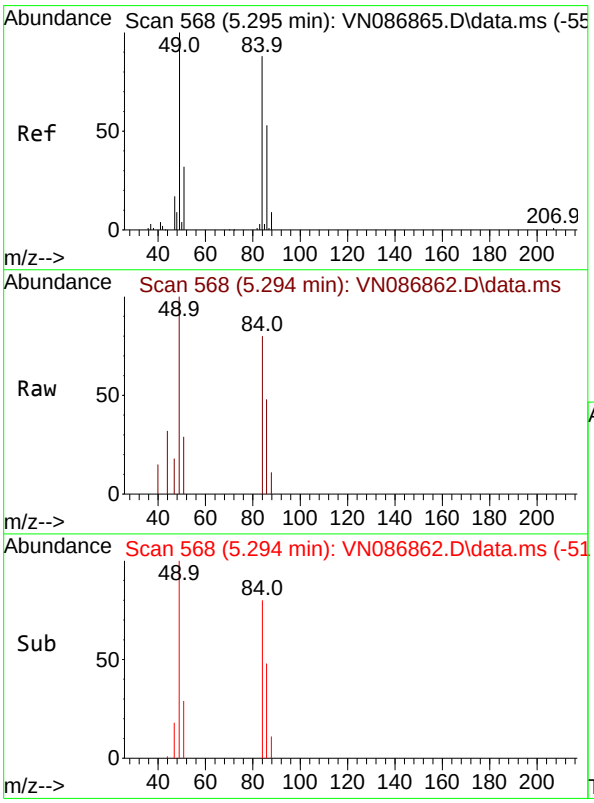
#19
Methyl tert-butyl Ether
Concen: 1.052 ug/l
RT: 5.824 min Scan# 6
Delta R.T. 0.011 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 73 Resp: 9019

Ion	Ratio	Lower	Upper
73	100		
57	18.0	17.4	26.2

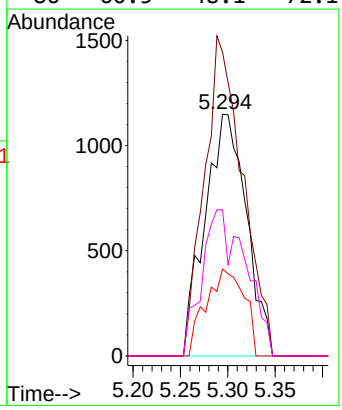


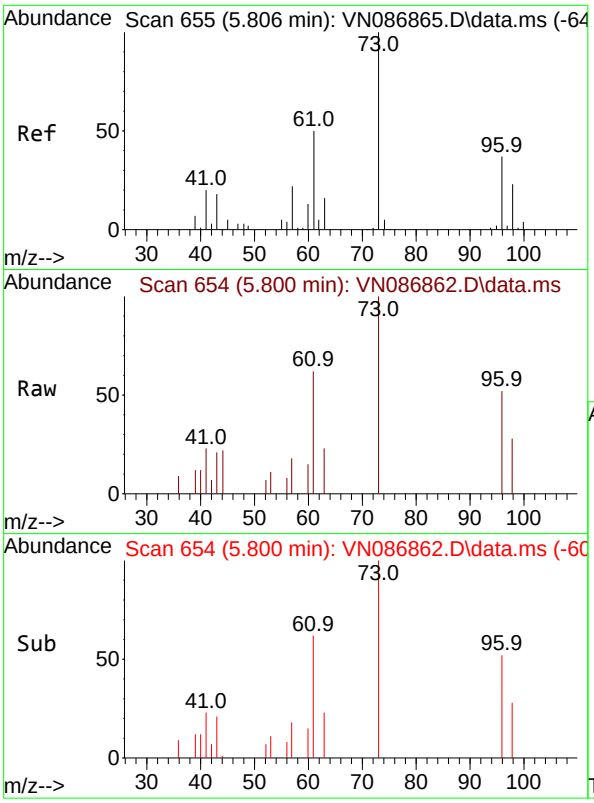


#20
Methylene Chloride
Concen: 1.237 ug/l
RT: 5.294 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 84 Resp: 3496

Ion	Ratio	Lower	Upper
84	100		
49	125.7	90.5	135.7
51	35.9	28.5	42.7
86	60.5	48.1	72.1



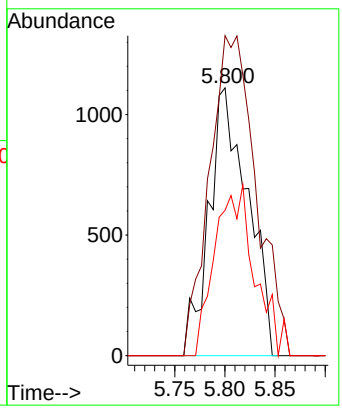


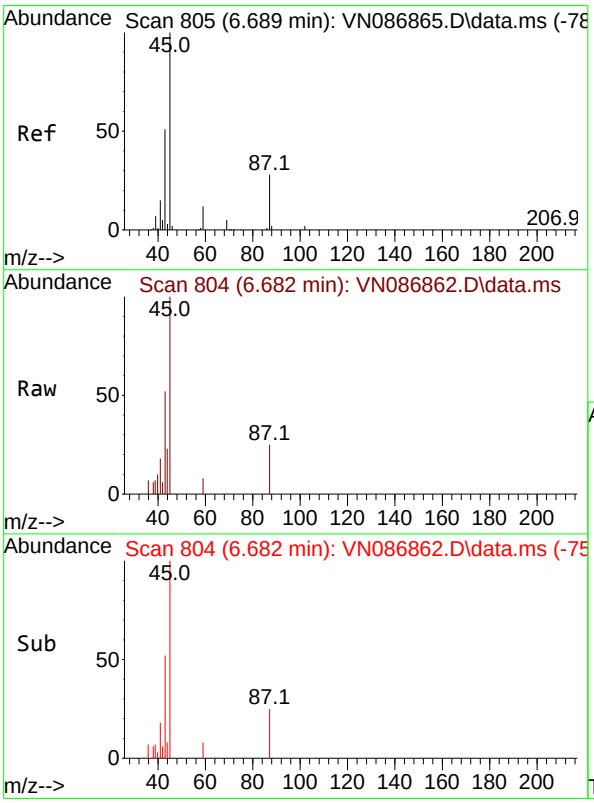
#21
trans-1,2-Dichloroethene
Concen: 1.131 ug/l
RT: 5.800 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 2979

Ion	Ratio	Lower	Upper
96	100		
61	119.4	109.2	163.8
98	54.3	49.8	74.8

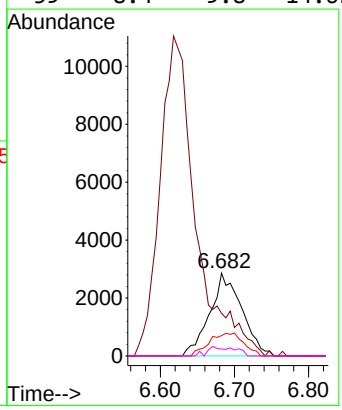


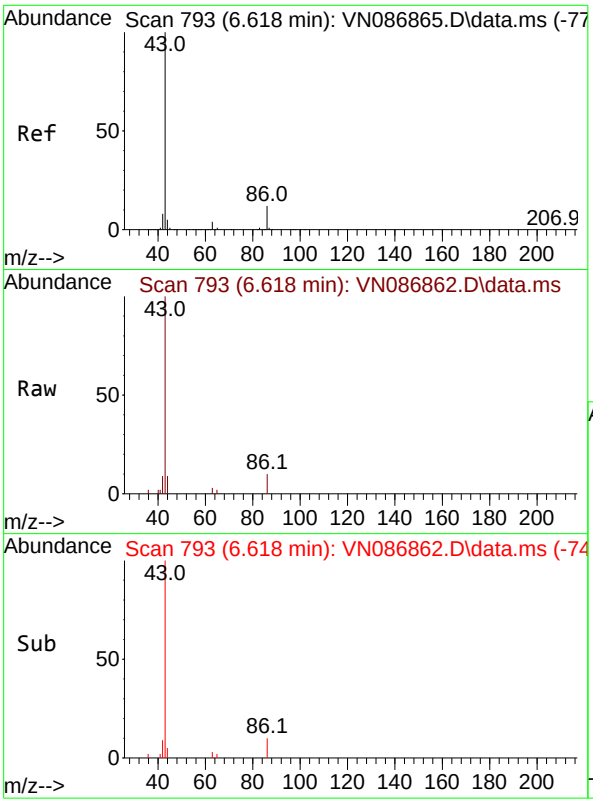


#22
Diisopropyl ether
Concen: 1.037 ug/l
RT: 6.682 min Scan# 804
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 45 Resp: 8584

Ion	Ratio	Lower	Upper
45	100		
43	51.5	41.9	62.9
87	24.5	22.4	33.6
59	8.4	9.8	14.6#



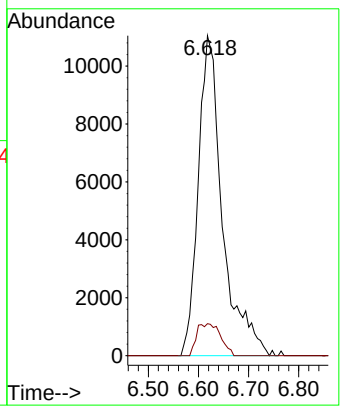


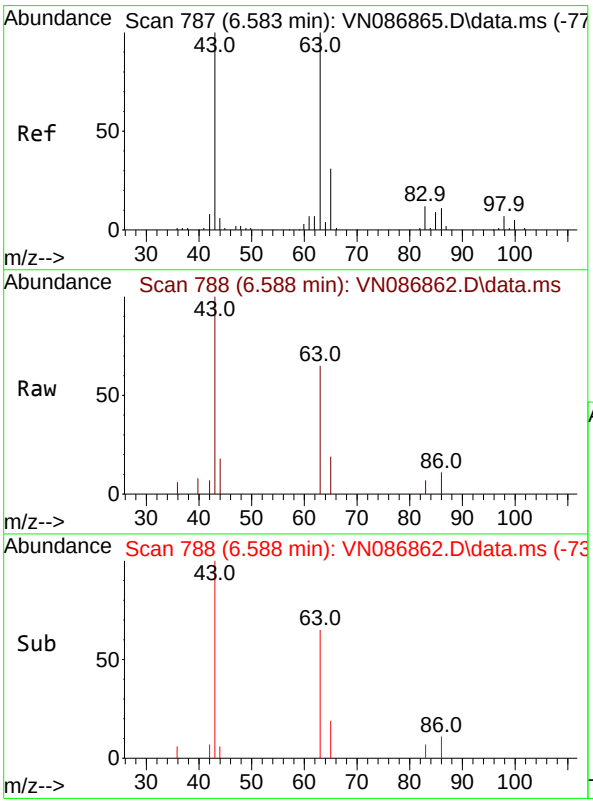
#23
Vinyl Acetate
Concen: 5.303 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 37075

Ion	Ratio	Lower	Upper
43	100		
86	10.0	9.5	14.3

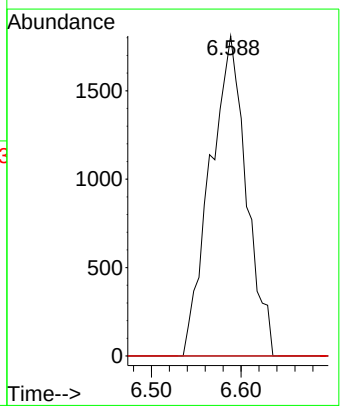


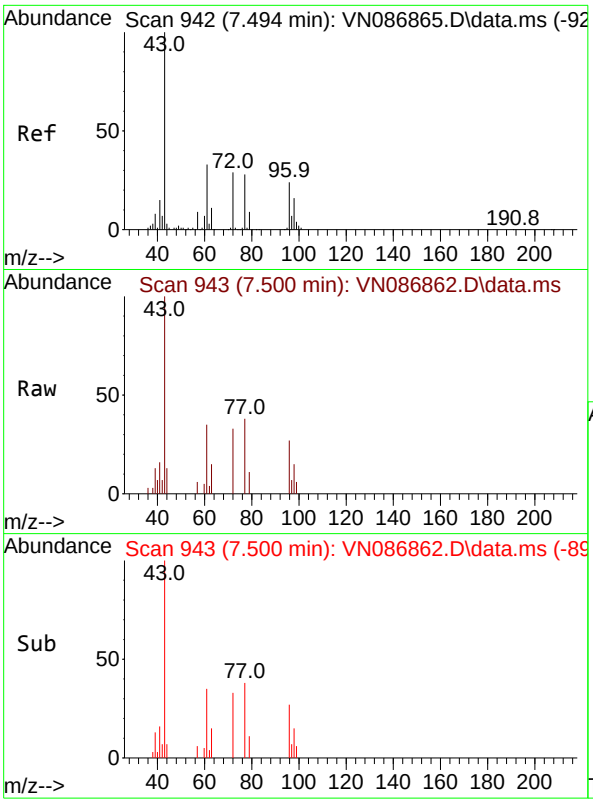


#24
1,1-Dichloroethane
Concen: 1.065 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 63 Resp: 5071

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.6	10.8#
100	0.0	2.6	7.8#



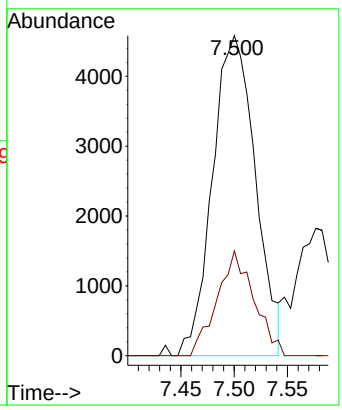


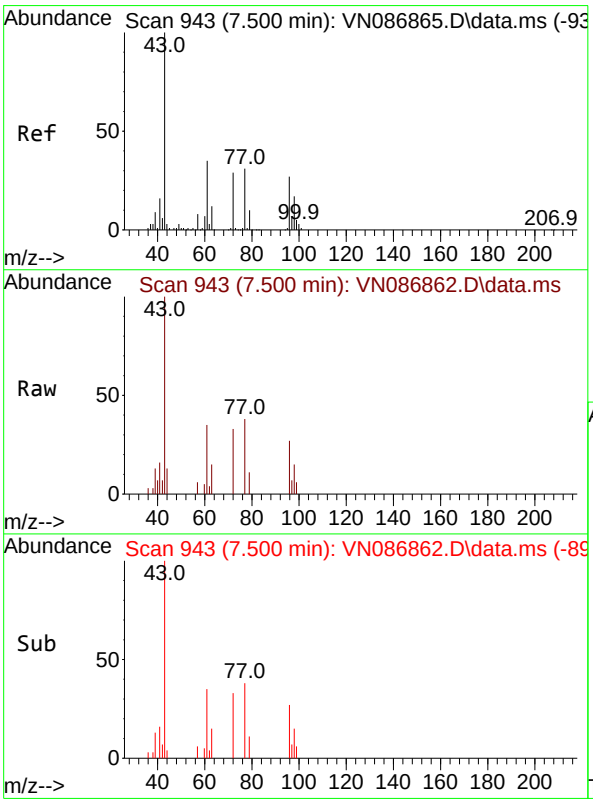
#25
2-Butanone
Concen: 5.231 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 12841

Ion	Ratio	Lower	Upper
43	100		
72	32.7	23.0	34.6

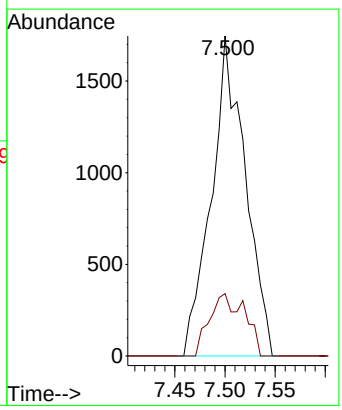


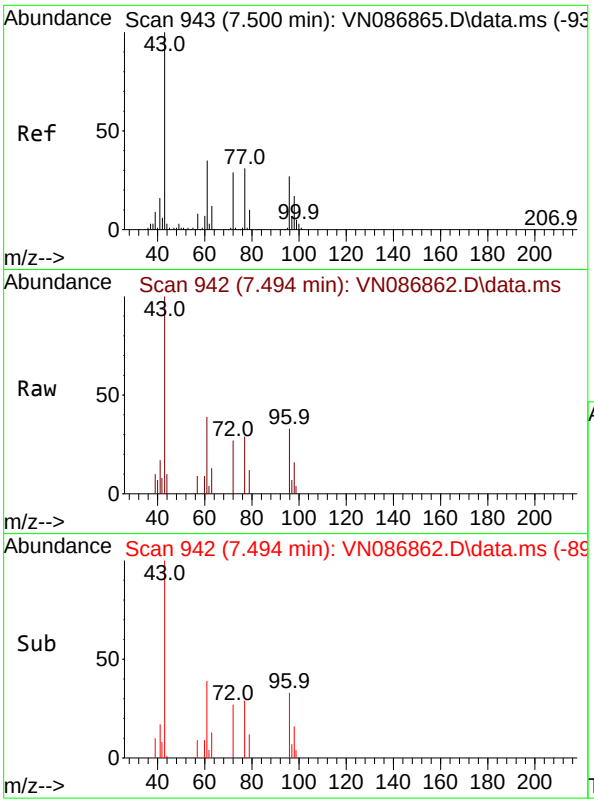


#26
2,2-Dichloropropane
Concen: 1.110 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 77 Resp: 4112

Ion	Ratio	Lower	Upper
77	100		
97	20.1	11.6	34.7



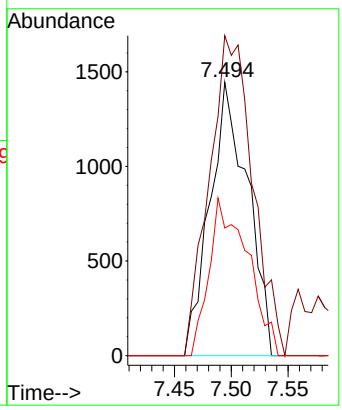


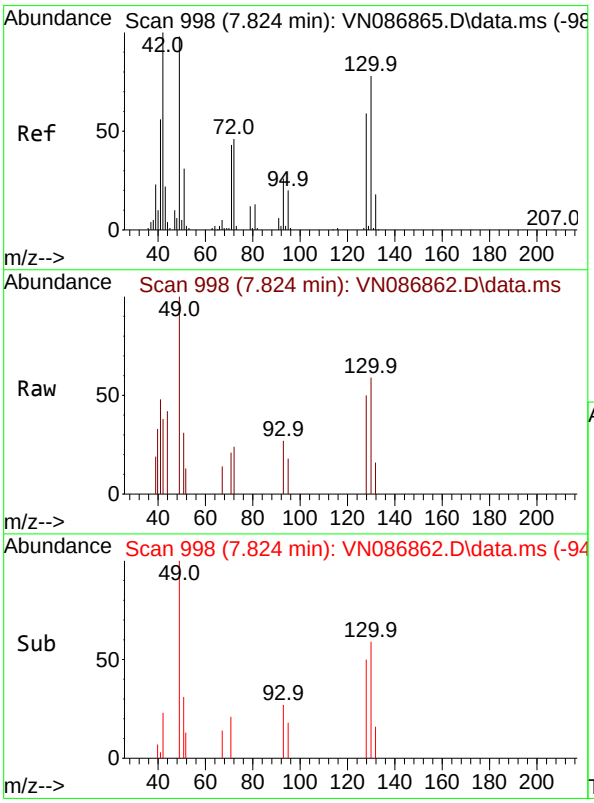
#27
cis-1,2-Dichloroethene
Concen: 1.062 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 3345

Ion	Ratio	Lower	Upper
96	100		
61	134.6	0.0	278.0
98	58.7	0.0	128.2

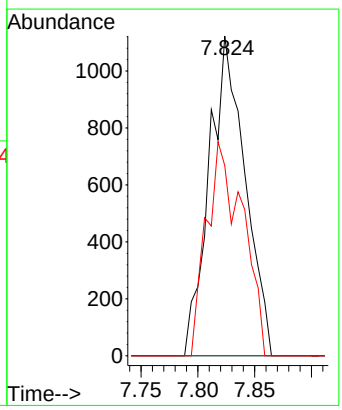


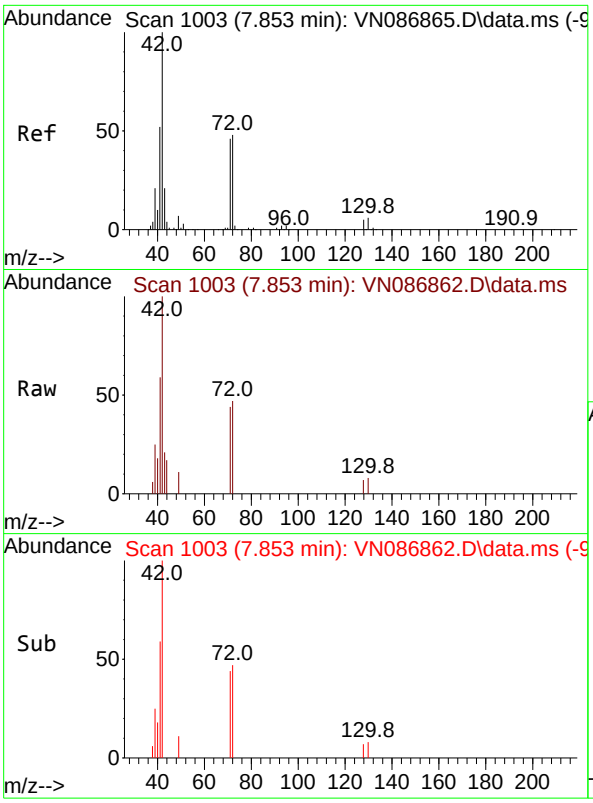


#28
Bromochloromethane
Concen: 1.052 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 49 Resp: 2464

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	67.5	62.2	93.2



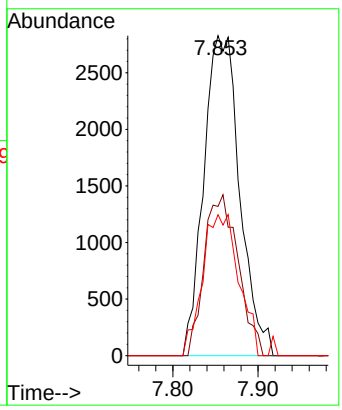


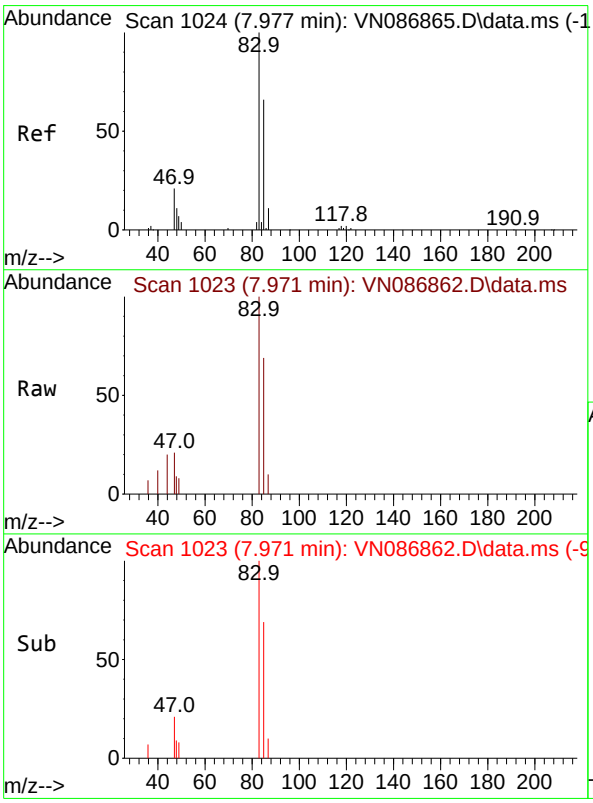
#29
Tetrahydrofuran
Concen: 5.191 ug/l
RT: 7.853 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 8301

Ion	Ratio	Lower	Upper
42	100		
72	47.2	37.8	56.6
71	44.4	35.6	53.4

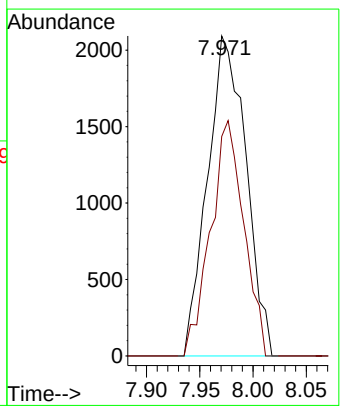


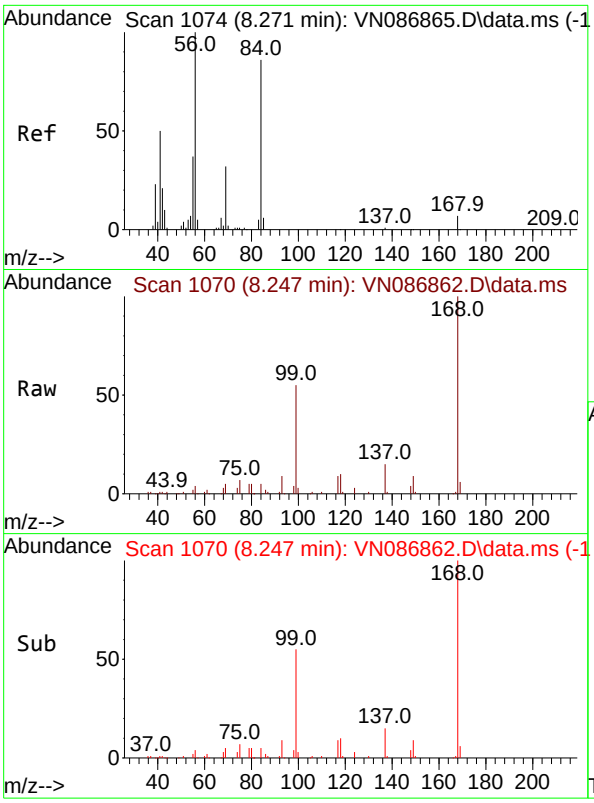


#30
Chloroform
Concen: 1.105 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 83 Resp: 5255

Ion	Ratio	Lower	Upper
83	100		
85	68.6	52.9	79.3



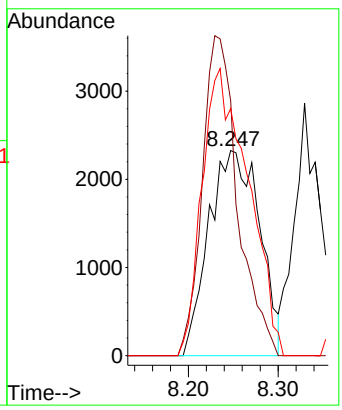


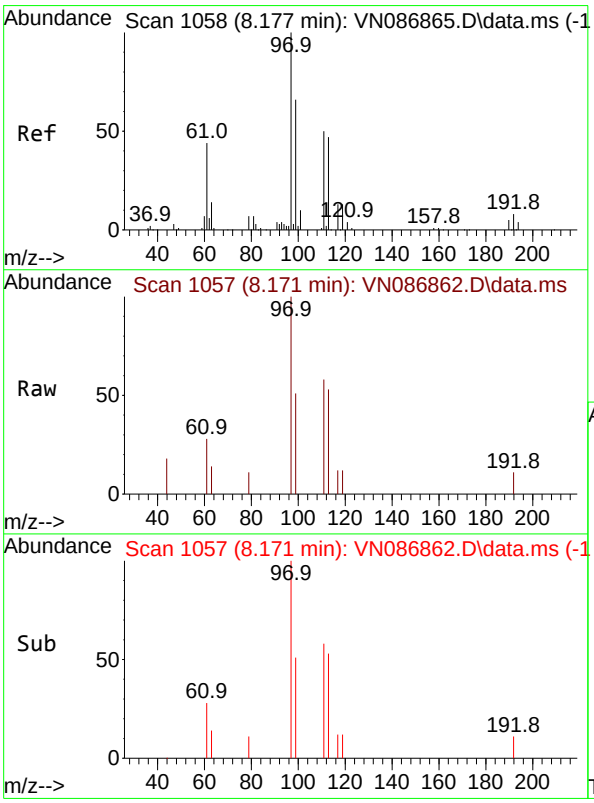
#31
Cyclohexane
Concen: 1.980 ug/l
RT: 8.247 min Scan# 1
Delta R.T. -0.024 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 56 Resp: 9143

Ion	Ratio	Lower	Upper
56	100		
69	124.2	25.4	38.0#
84	120.5	68.8	103.2#

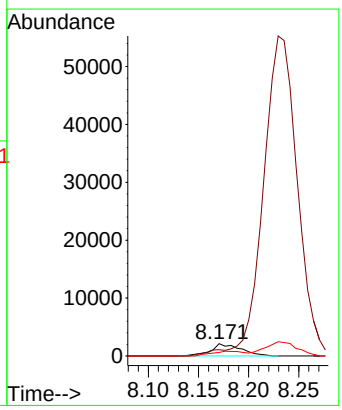


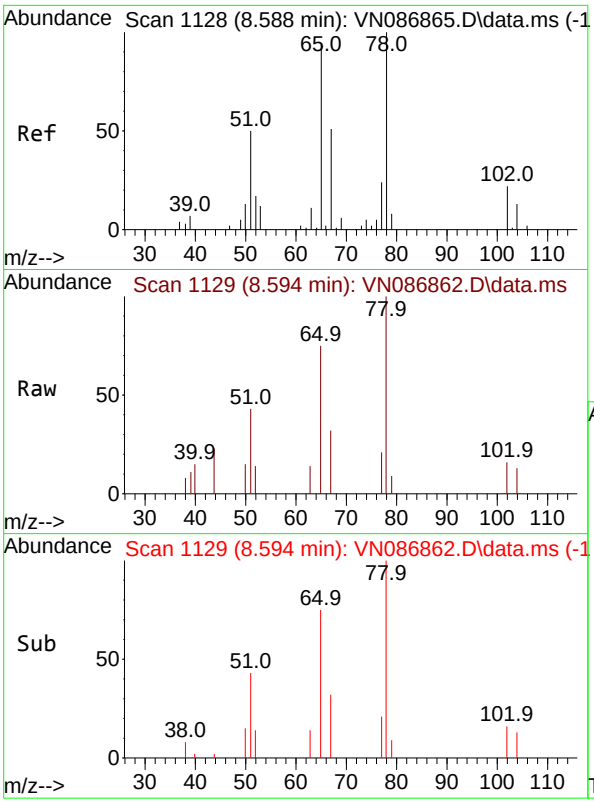


#32
1,1,1-Trichloroethane
Concen: 1.082 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 97 Resp: 4378

Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.0	78.0#
61	42.5	35.9	53.9



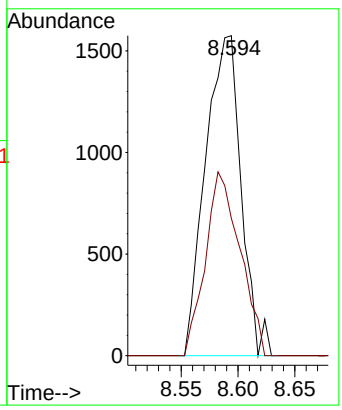


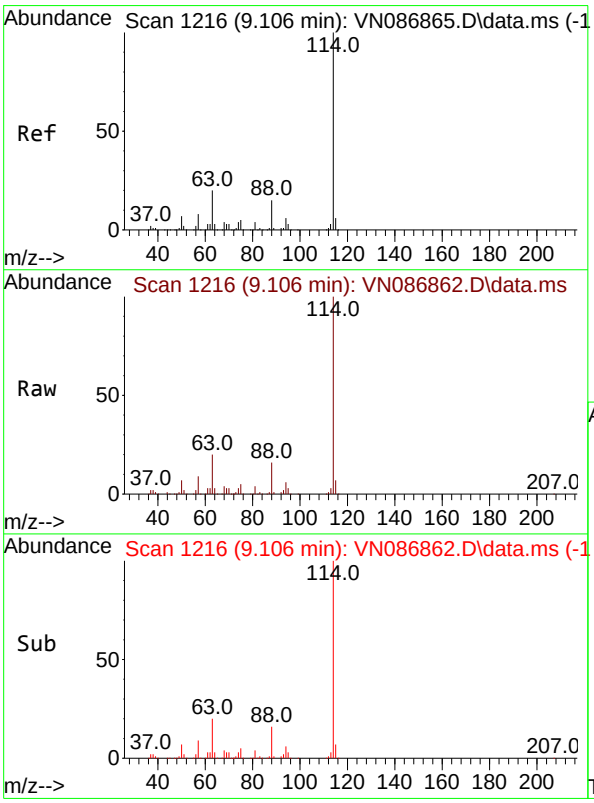
#33
1,2-Dichloroethane-d4
Concen: 1.204 ug/l
RT: 8.594 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 65 Resp: 3429

Ion	Ratio	Lower	Upper
65	100		
67	55.9	0.0	105.6

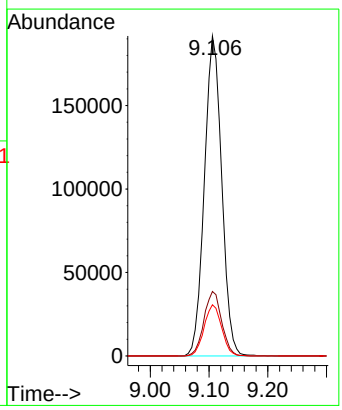


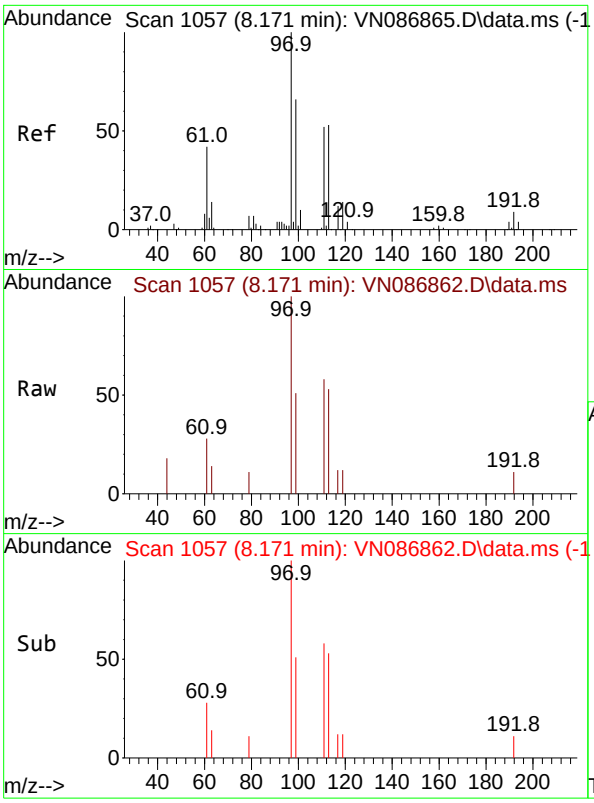


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:114 Resp: 393457

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	39.6
88	16.0	0.0	30.2



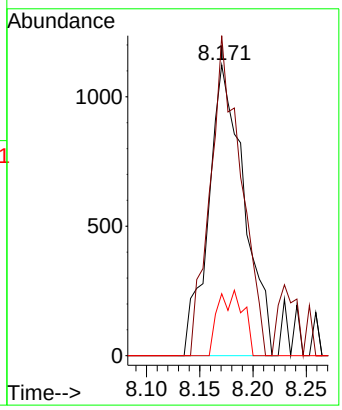


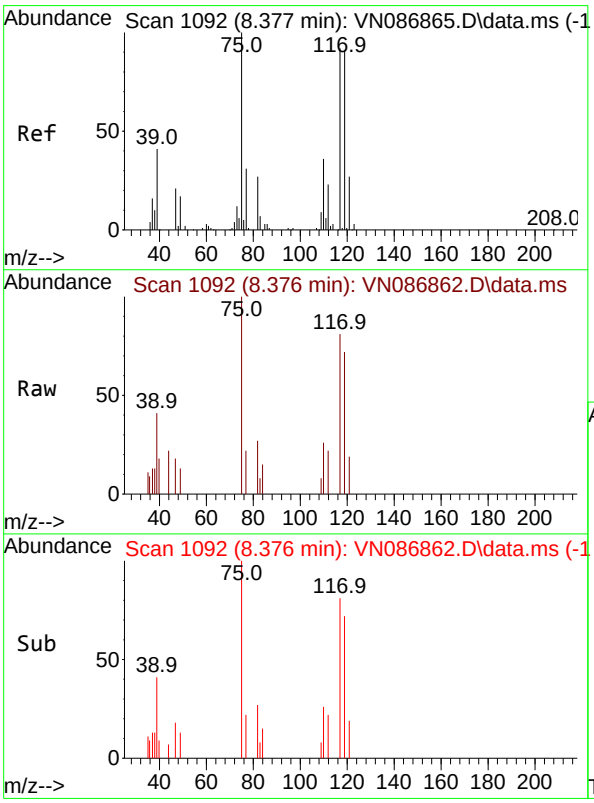
#35
Dibromofluoromethane
Concen: 1.126 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:113 Resp: 2626

Ion	Ratio	Lower	Upper
113	100		
111	94.8	84.2	126.2
192	7.7	14.2	21.4#

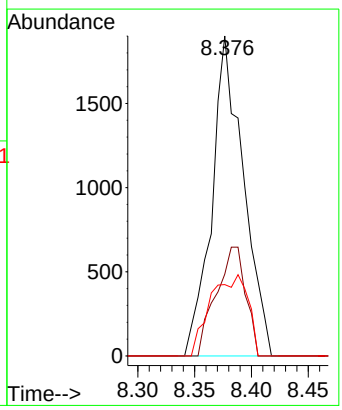


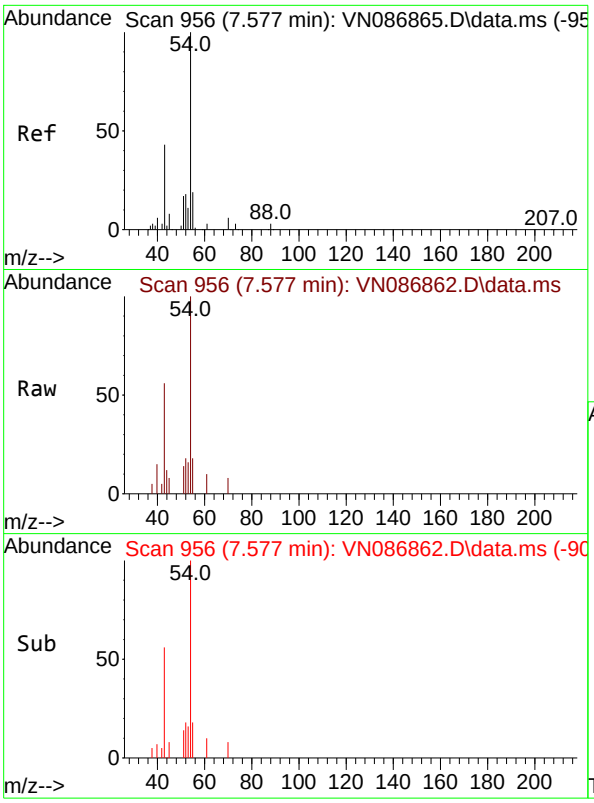


#36
1,1-Dichloropropene
Concen: 1.059 ug/l
RT: 8.376 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 75 Resp: 3678

Ion	Ratio	Lower	Upper
75	100		
110	31.8	17.6	52.9
77	30.2	25.3	37.9



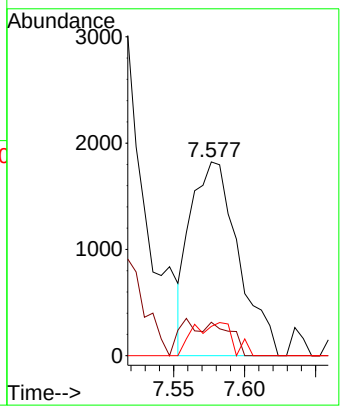


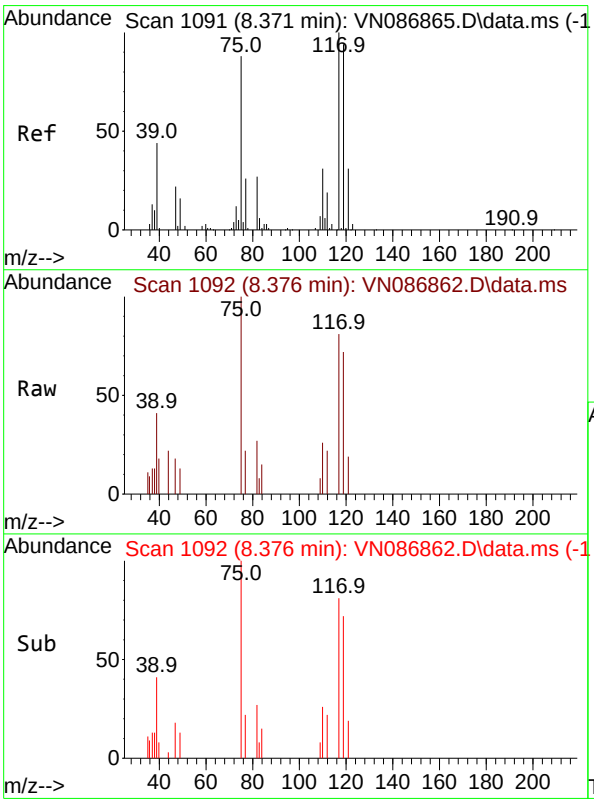
#37
Ethyl Acetate
Concen: 0.968 ug/l
RT: 7.577 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 4282

Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.1	18.1#
70	14.1	9.8	14.6

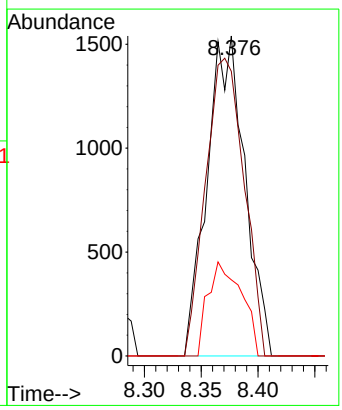


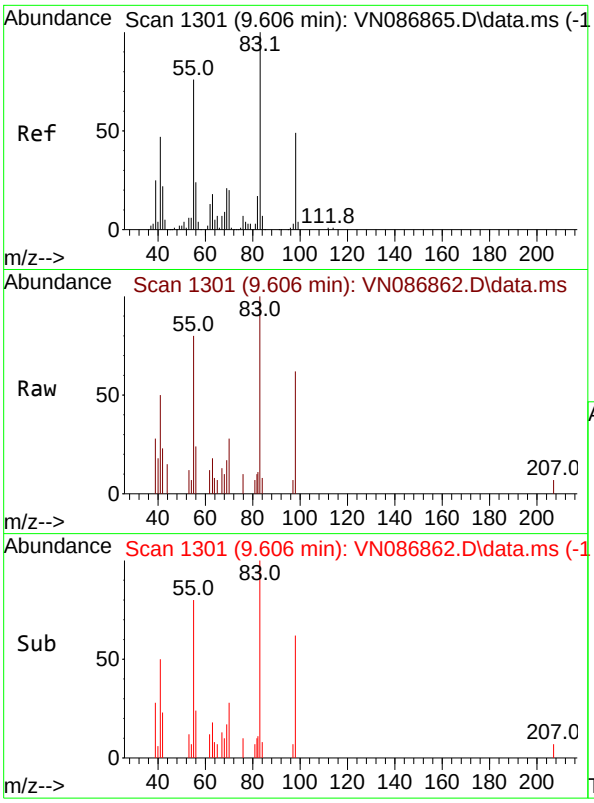


#38
Carbon Tetrachloride
Concen: 1.045 ug/l
RT: 8.376 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:117 Resp: 3563

Ion	Ratio	Lower	Upper
117	100		
119	89.0	75.0	112.6
121	23.8	24.9	37.3#



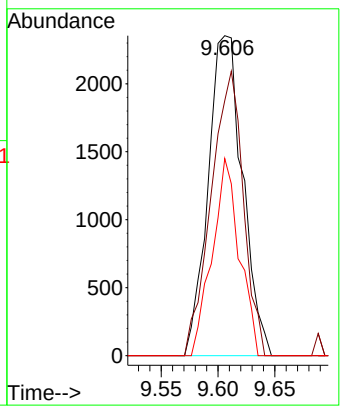


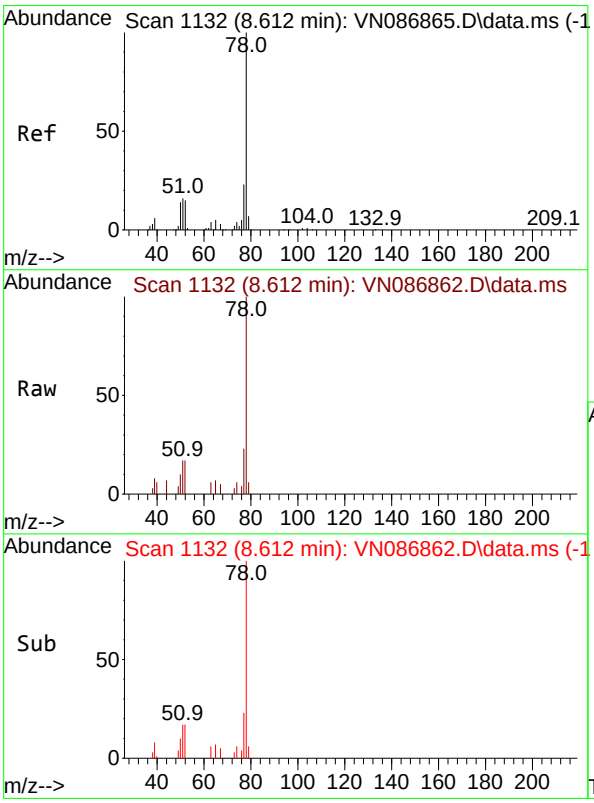
#39
Methylcyclohexane
Concen: 1.046 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 4981

Ion	Ratio	Lower	Upper
83	100		
55	79.7	61.0	91.6
98	61.6	38.9	58.3#

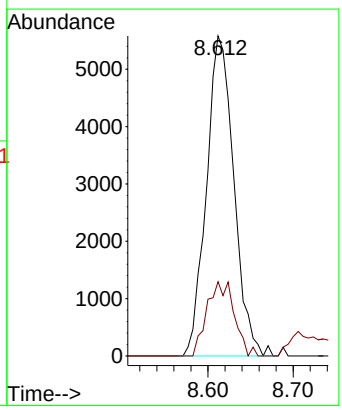


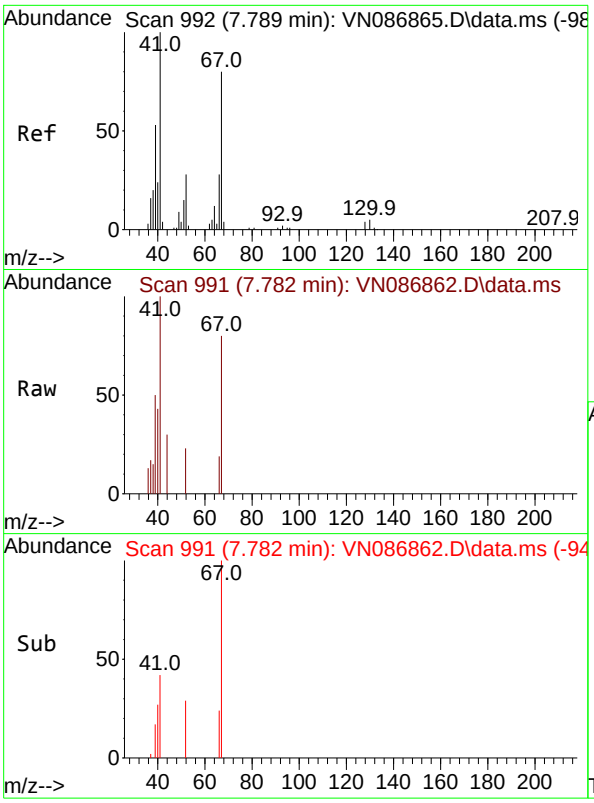


#40
Benzene
Concen: 1.100 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 78 Resp: 12498

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.7	28.1



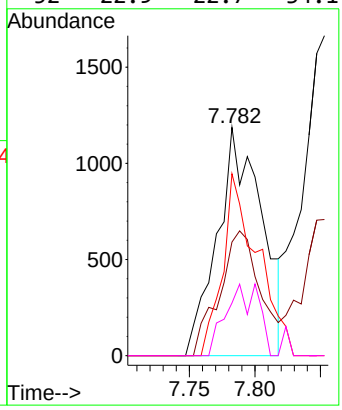


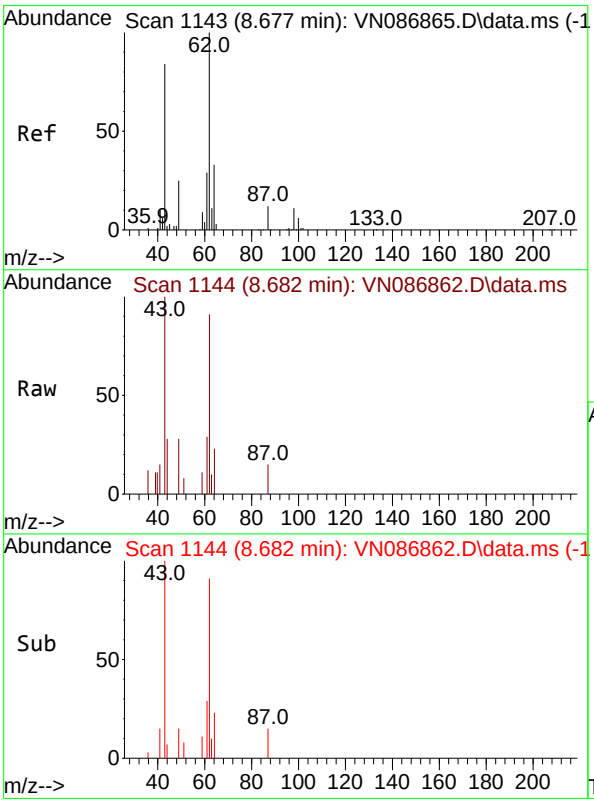
#41
Methacrylonitrile
Concen: 1.127 ug/l
RT: 7.782 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 41 Resp: 2799

Ion	Ratio	Lower	Upper
41	100		
39	50.3	41.2	61.8
67	62.4	61.4	92.2
52	22.9	22.7	34.1

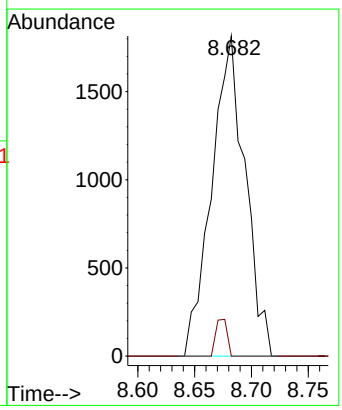


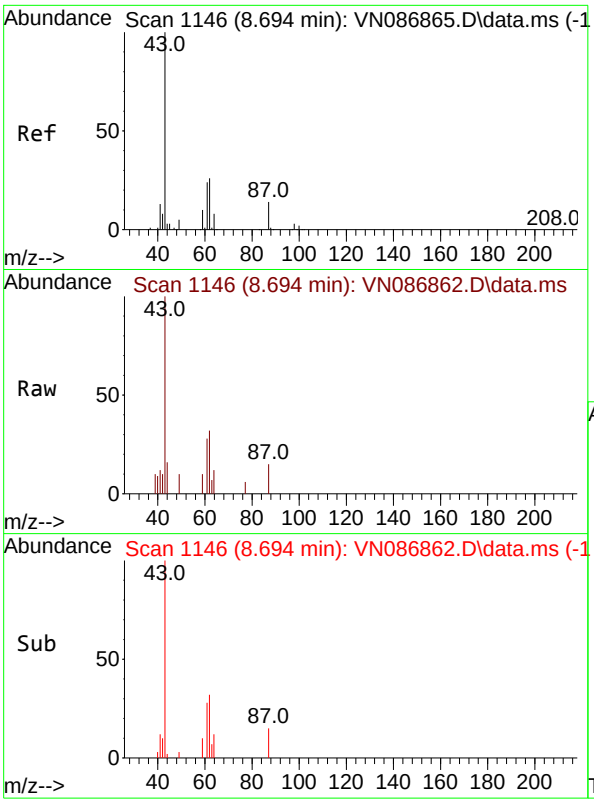


#42
1,2-Dichloroethane
Concen: 1.081 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 62 Resp: 3725

Ion	Ratio	Lower	Upper
62	100		
98	3.9	0.0	21.2



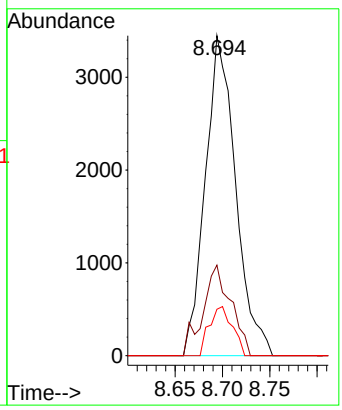


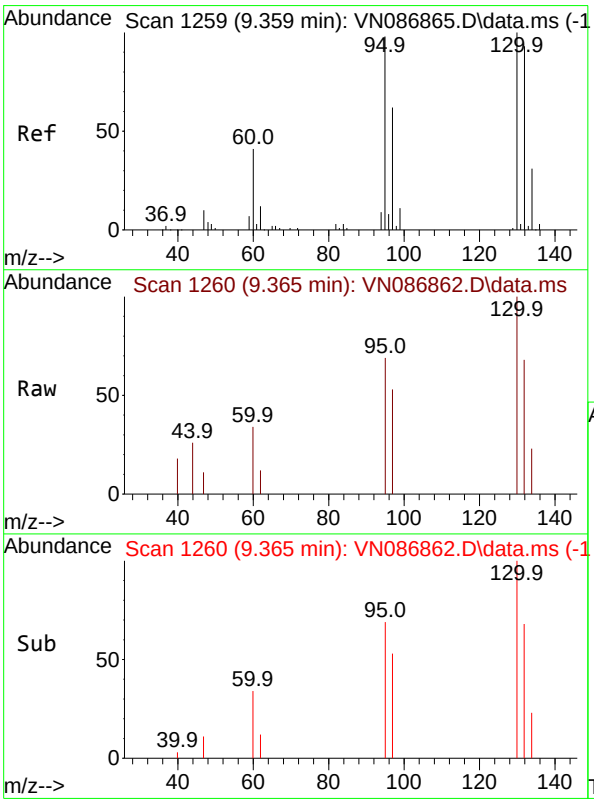
#43
Isopropyl Acetate
Concen: 1.081 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 7673

Ion	Ratio	Lower	Upper
43	100		
61	26.2	22.1	33.1
87	11.7	11.8	17.6#

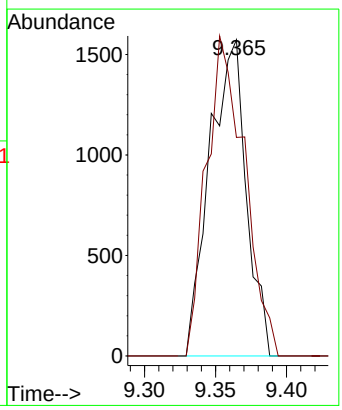


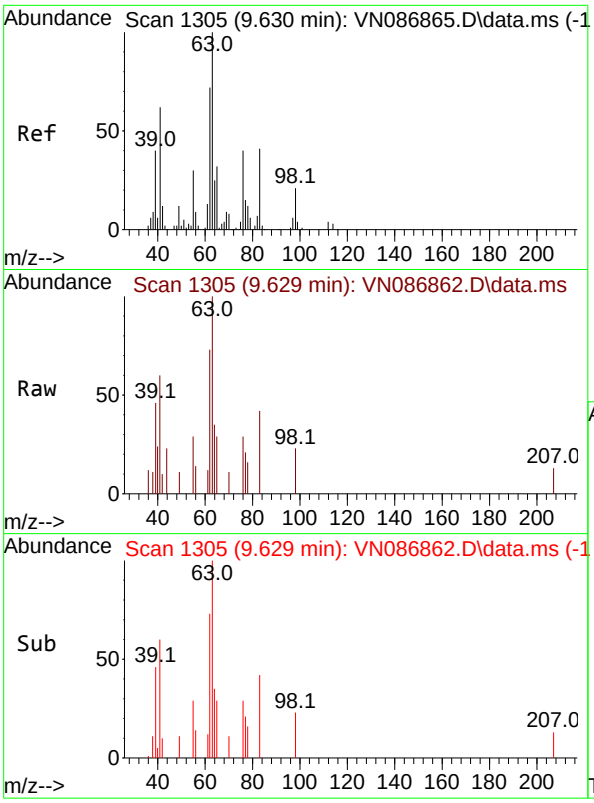


#44
Trichloroethene
Concen: 1.047 ug/l
RT: 9.365 min Scan# 1260
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:130 Resp: 2822

Ion	Ratio	Lower	Upper
130	100		
95	69.1	0.0	196.2



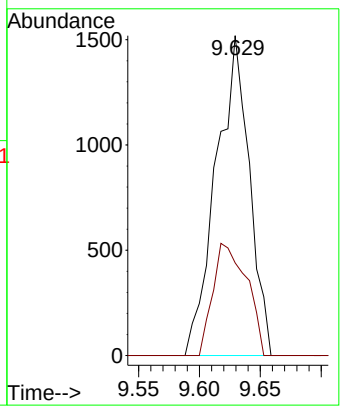


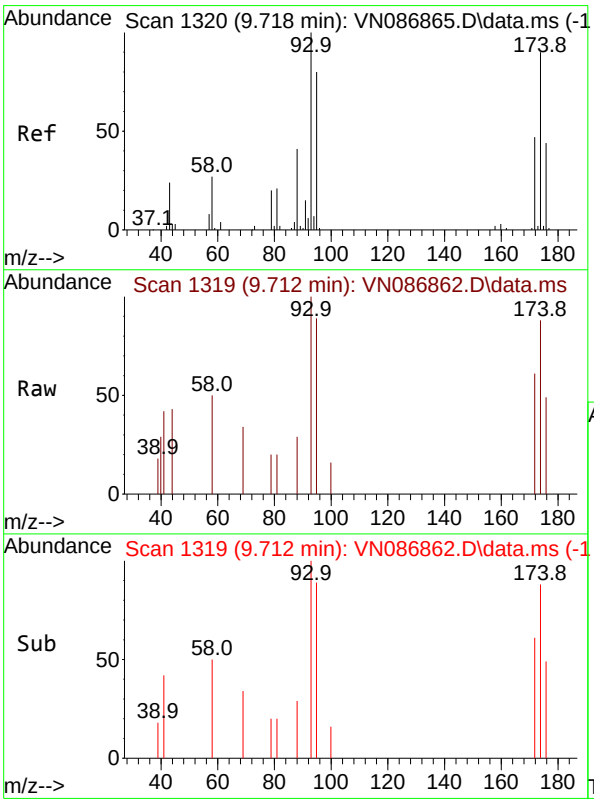
#45
1,2-Dichloropropane
Concen: 1.043 ug/l
RT: 9.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 2883

Ion	Ratio	Lower	Upper
63	100		
65	29.0	25.5	38.3

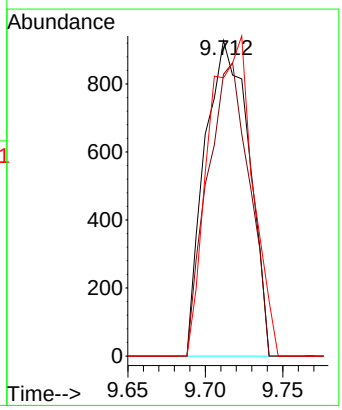


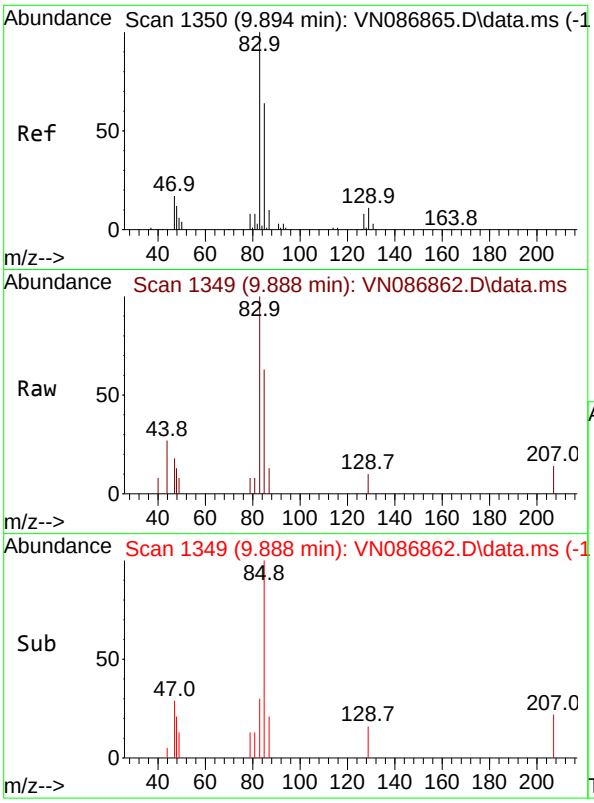


#46
Dibromomethane
Concen: 0.999 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 93 Resp: 1835

Ion	Ratio	Lower	Upper
93	100		
95	87.6	67.1	100.7
174	100.5	74.2	111.4



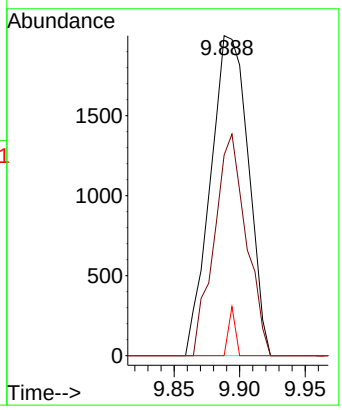


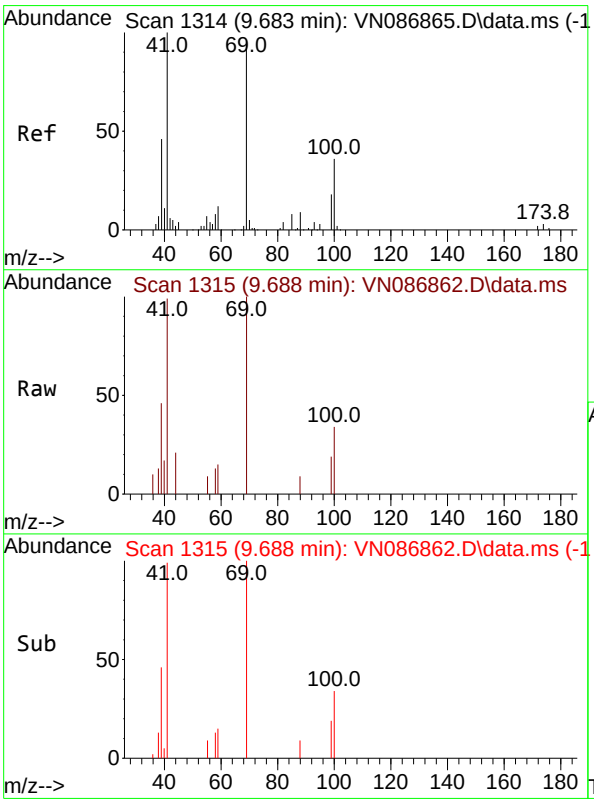
#47
Bromodichloromethane
Concen: 1.063 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 83 Resp: 4017

Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.9	76.3
127	0.0	6.6	10.0#

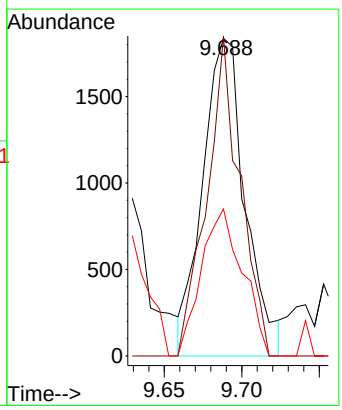


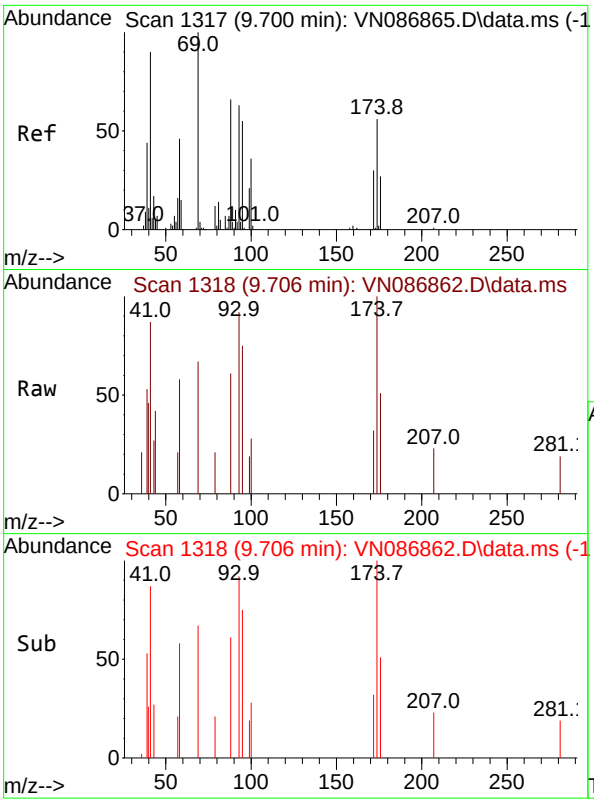


#48
Methyl methacrylate
Concen: 1.069 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 41 Resp: 3492

Ion	Ratio	Lower	Upper
41	100		
69	79.4	74.6	112.0
39	44.9	40.2	60.4



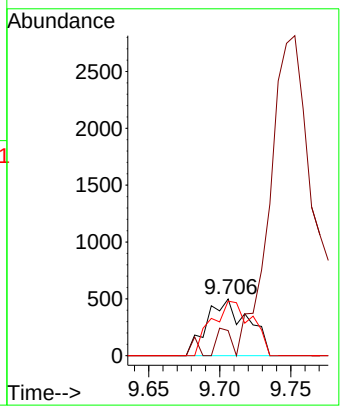


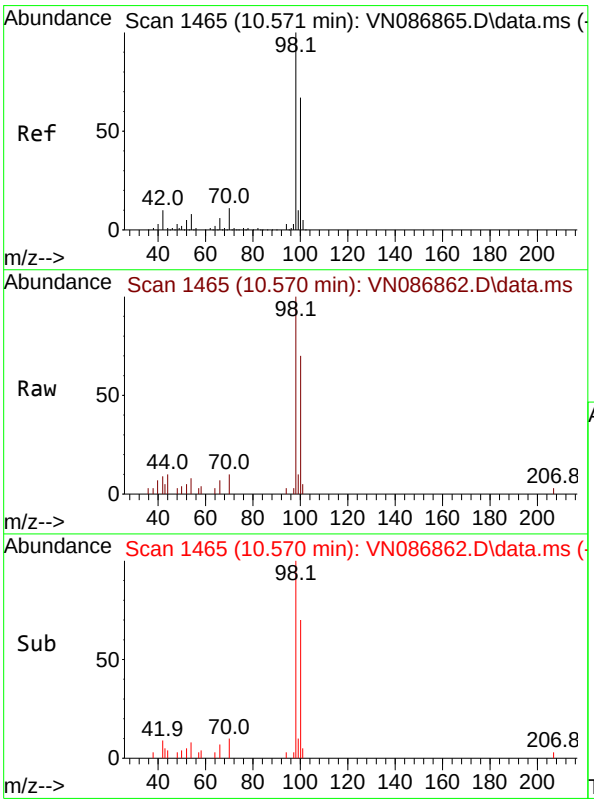
#49
1,4-Dioxane
Concen: 16.891 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 88 Resp: 1004

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	94.0	57.7	86.5#

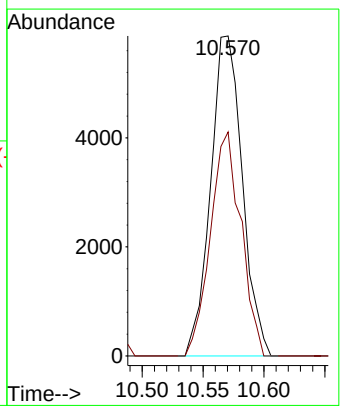


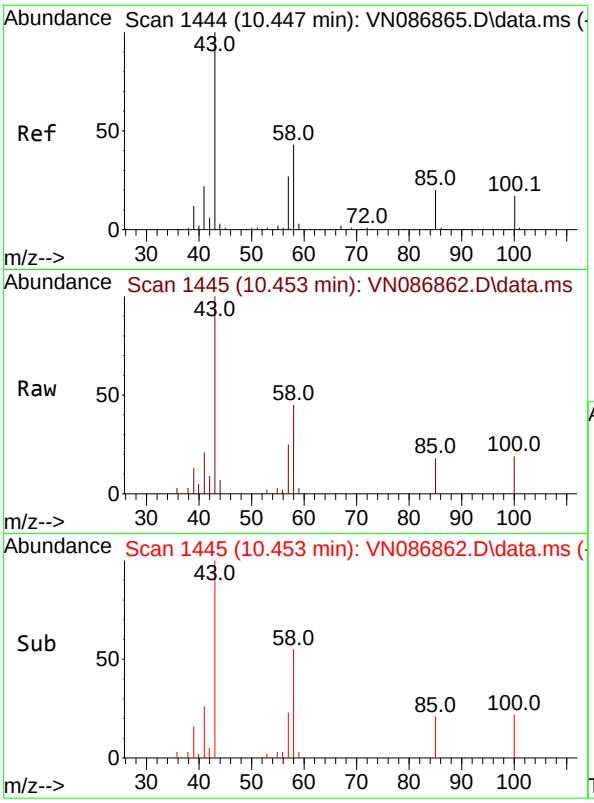


#50
Toluene-d8
Concen: 1.153 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 98 Resp: 10645

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.4	80.0



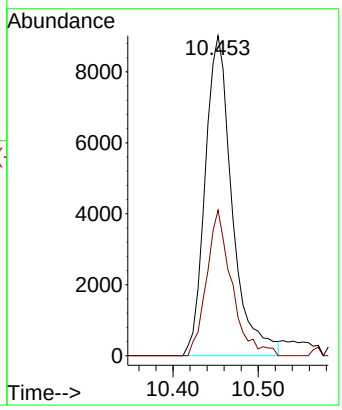


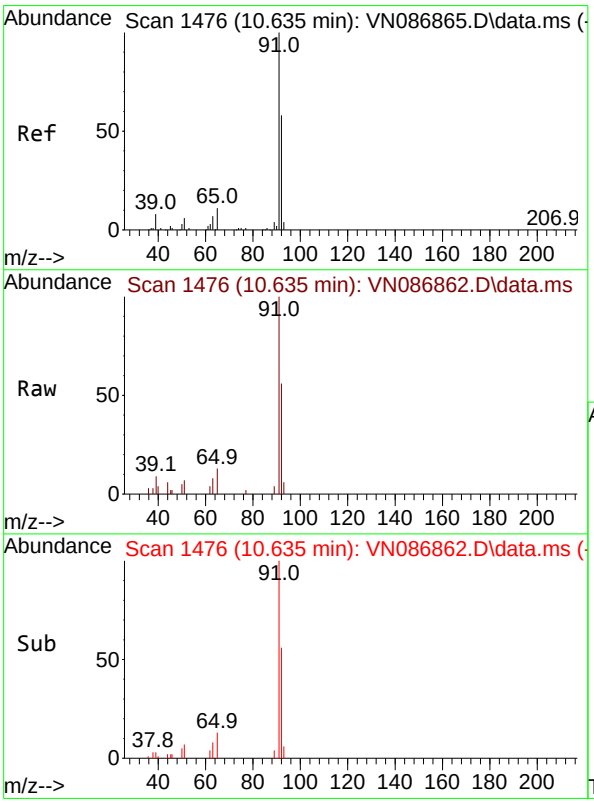
#51
4-Methyl-2-Pentanone
Concen: 4.653 ug/l
RT: 10.453 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 19886

Ion	Ratio	Lower	Upper
43	100		
58	42.3	34.2	51.4

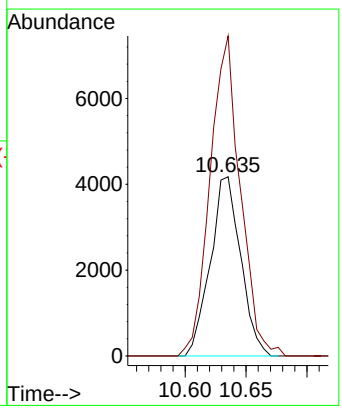


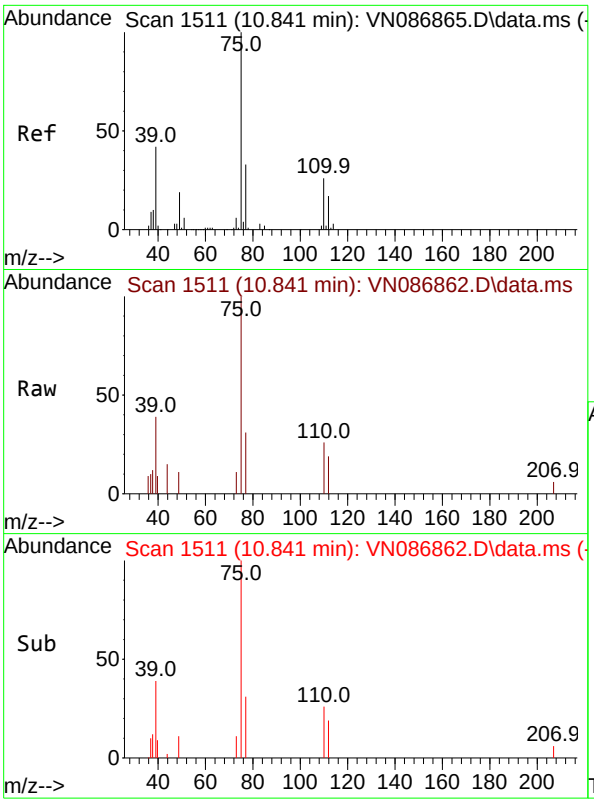


#52
Toluene
Concen: 1.041 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 92 Resp: 7227

Ion	Ratio	Lower	Upper
92	100		
91	178.1	136.5	204.7



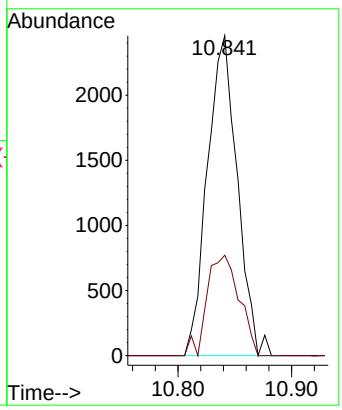


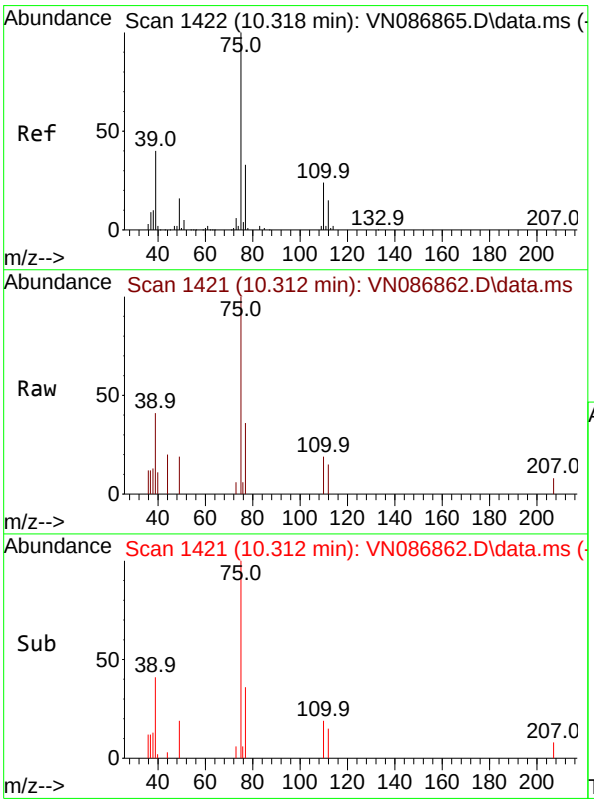
#53
t-1,3-Dichloropropene
Concen: 1.064 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 4494

Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.4	39.6

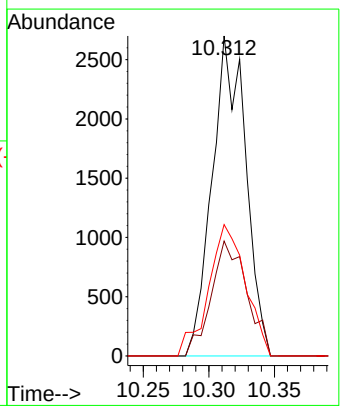


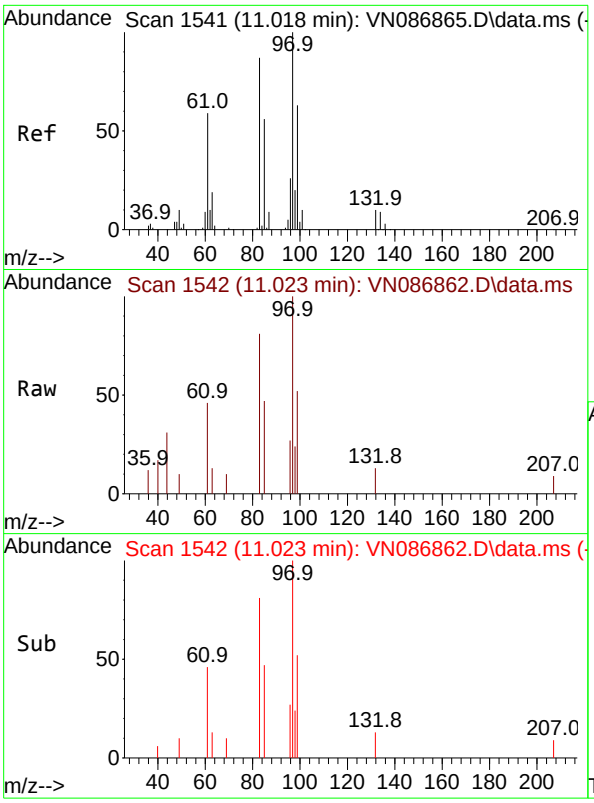


#54
cis-1,3-Dichloropropene
Concen: 1.060 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 75 Resp: 4792

Ion	Ratio	Lower	Upper
75	100		
77	35.9	26.2	39.4
39	41.1	32.3	48.5



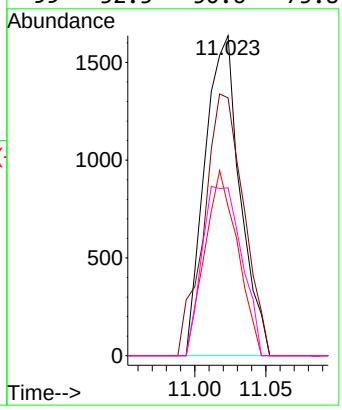


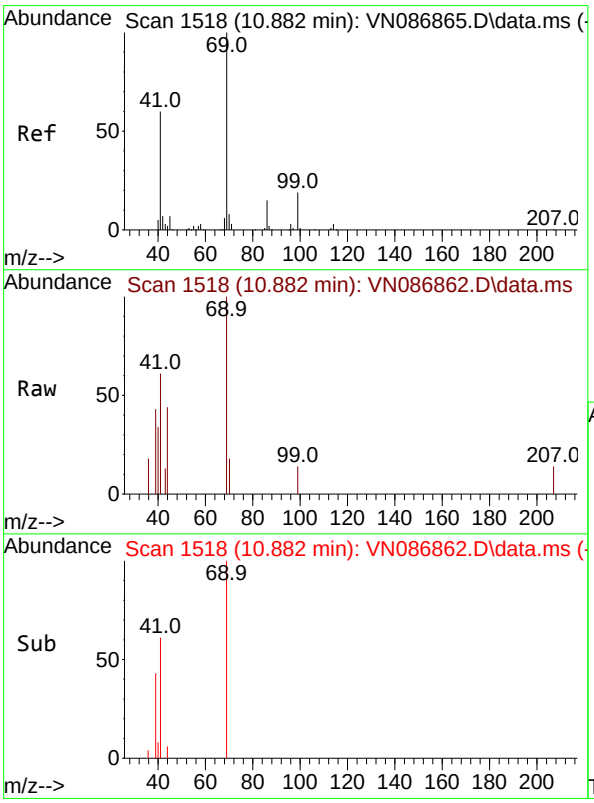
#55
1,1,2-Trichloroethane
Concen: 1.058 ug/l
RT: 11.023 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 97 Resp: 2828

Ion	Ratio	Lower	Upper
97	100		
83	80.6	69.7	104.5
85	46.5	45.1	67.7
99	52.5	50.6	75.8

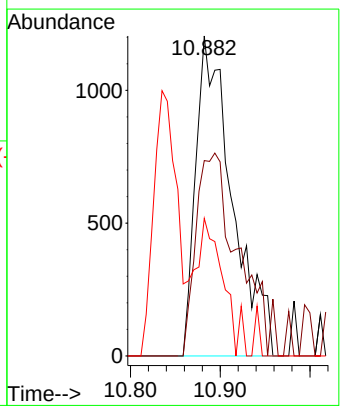


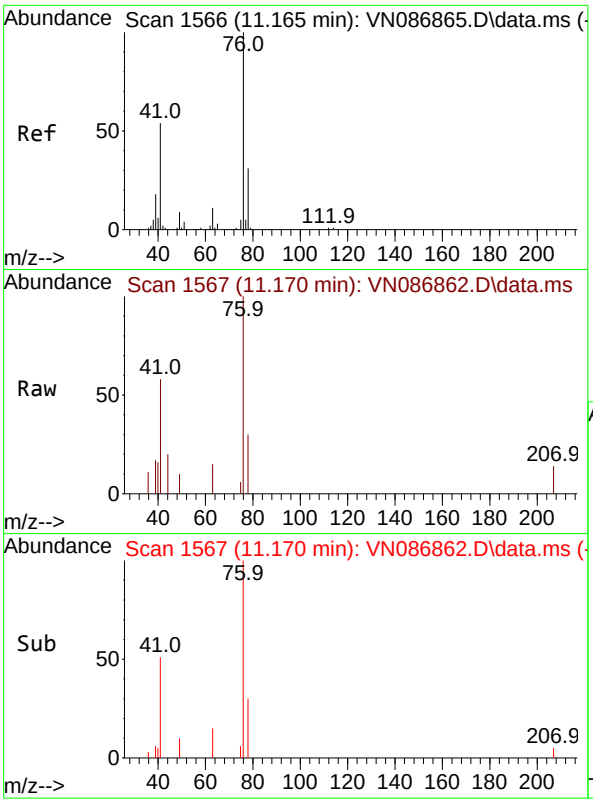


#56
Ethyl methacrylate
Concen: 0.800 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 69 Resp: 3406

Ion	Ratio	Lower	Upper
69	100		
41	73.5	47.2	70.8#
39	31.6	23.0	34.6



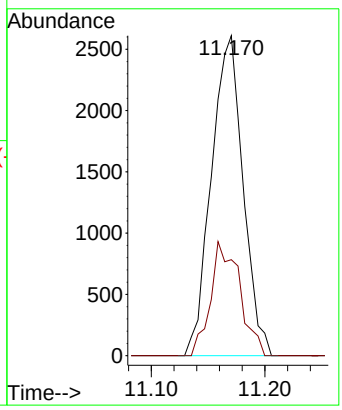


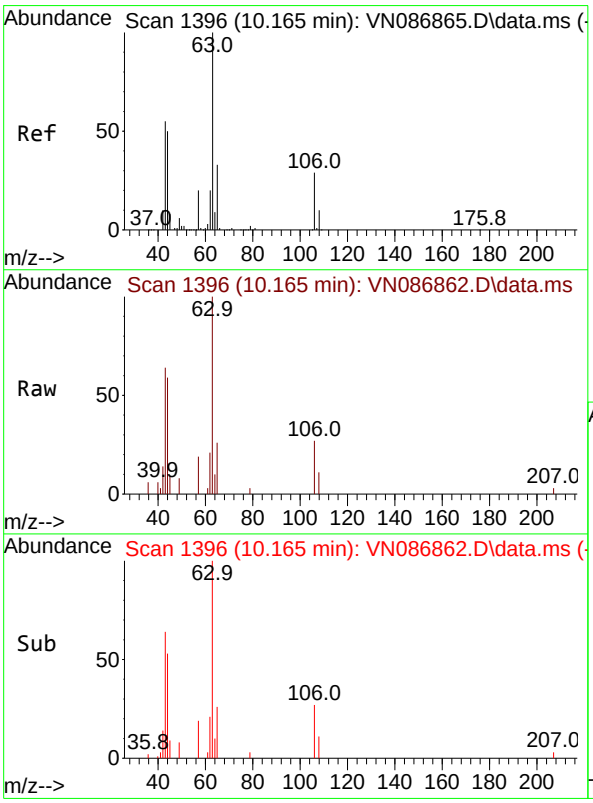
#57
1,3-Dichloropropane
Concen: 1.092 ug/l
RT: 11.170 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 5062

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.3	37.9

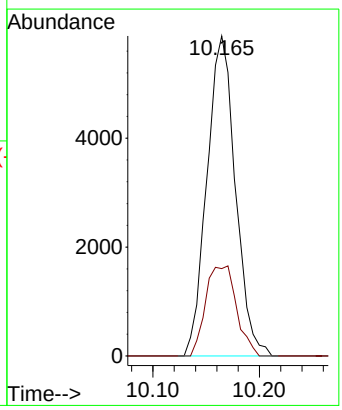


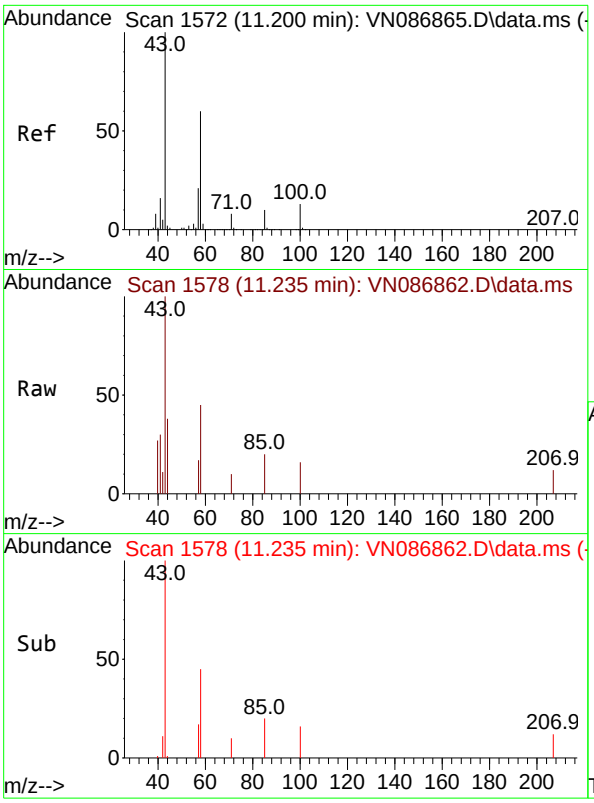


#58
2-Chloroethyl Vinyl ether
Concen: 4.304 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 63 Resp: 10924

Ion	Ratio	Lower	Upper
63	100		
106	30.4	23.0	34.6



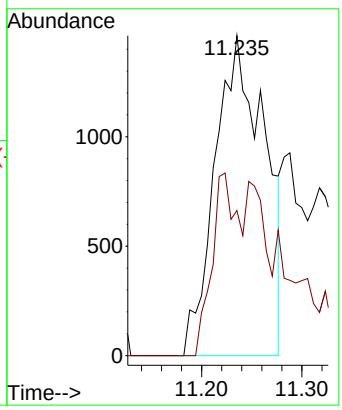


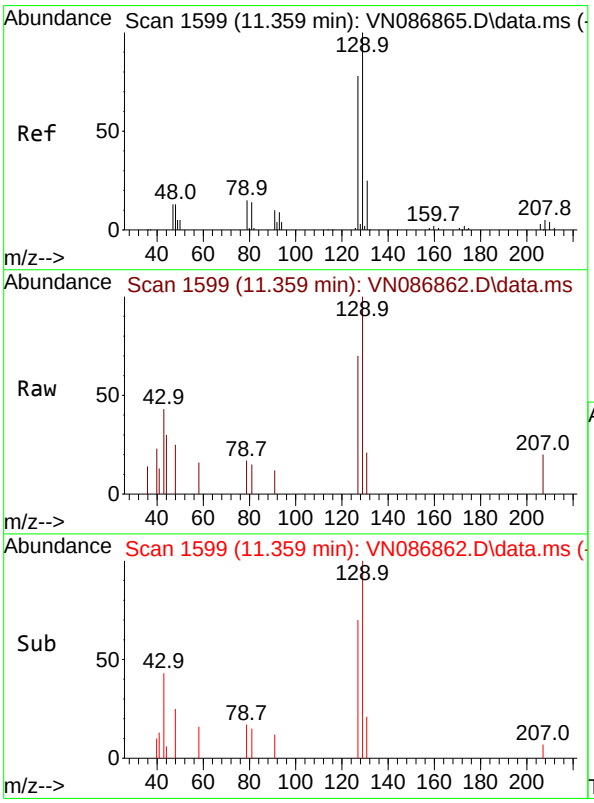
#59
2-Hexanone
Concen: 1.822 ug/l
RT: 11.235 min Scan# 1
Delta R.T. 0.035 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 5016

Ion	Ratio	Lower	Upper
43	100		
58	11.5	30.4	91.3#

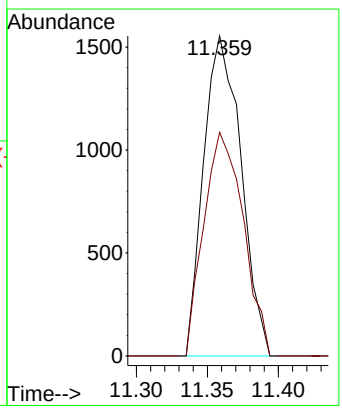


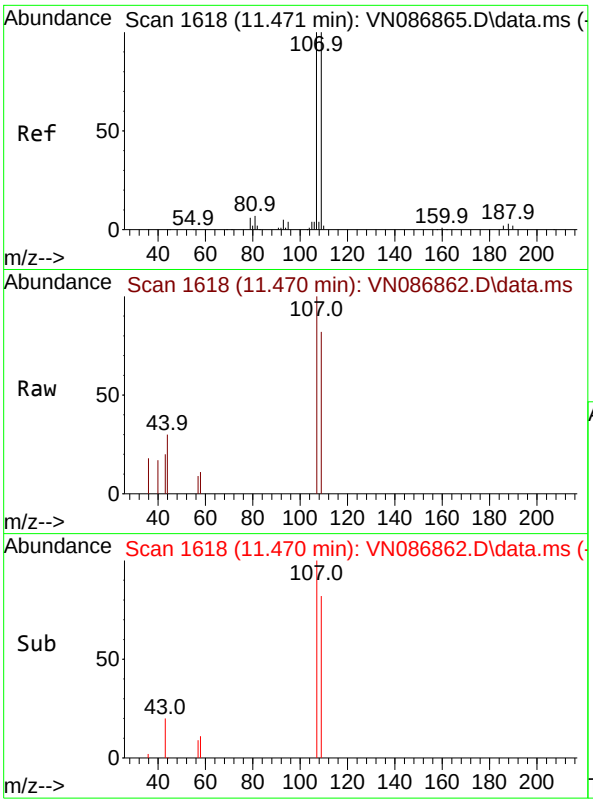


#60
Dibromochloromethane
Concen: 1.021 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:129 Resp: 2843

Ion	Ratio	Lower	Upper
129	100		
127	73.8	38.6	115.8



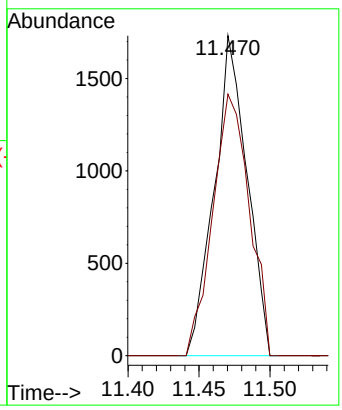


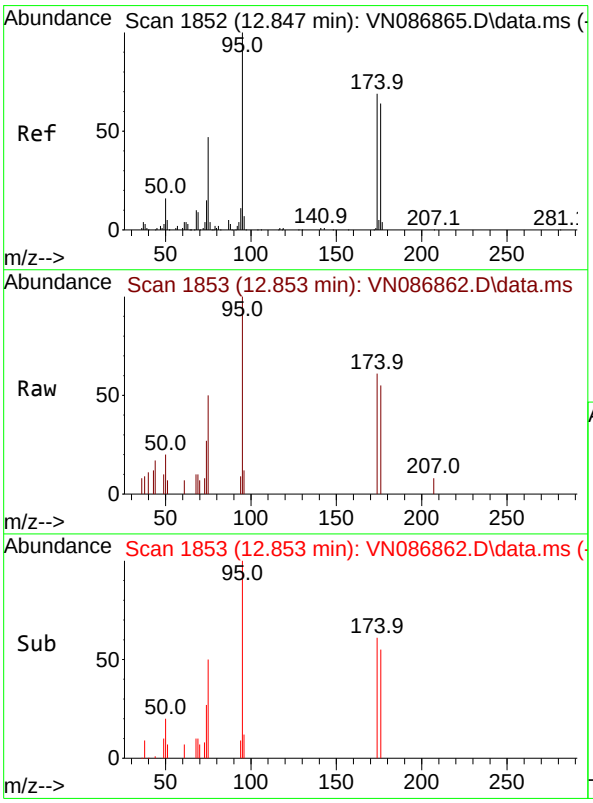
#61
1,2-Dibromoethane
Concen: 1.014 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:107 Resp: 2777

Ion	Ratio	Lower	Upper
107	100		
109	91.2	76.3	114.5

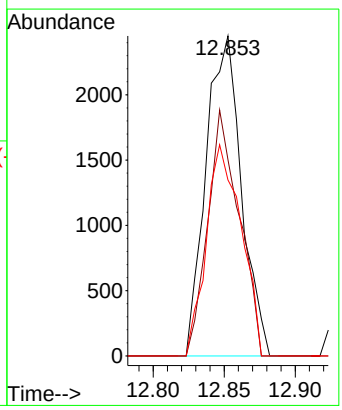


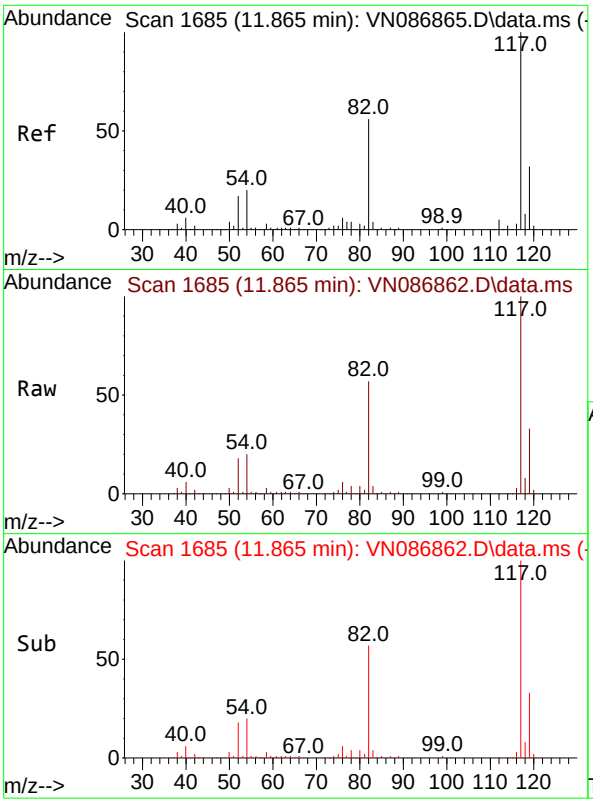


#62
4-Bromofluorobenzene
Concen: 1.240 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 95 Resp: 4252

Ion	Ratio	Lower	Upper
95	100		
174	68.3	0.0	141.8
176	65.0	0.0	132.6



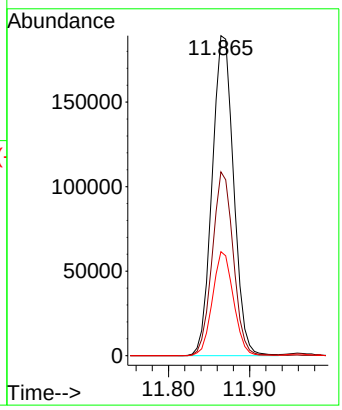


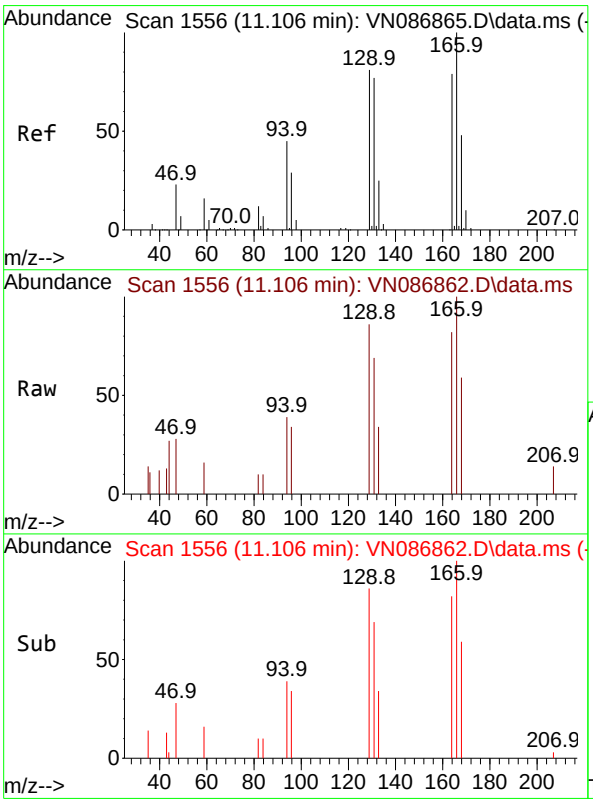
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 348010

Ion	Ratio	Lower	Upper
117	100		
82	57.5	44.6	67.0
119	32.5	25.5	38.3

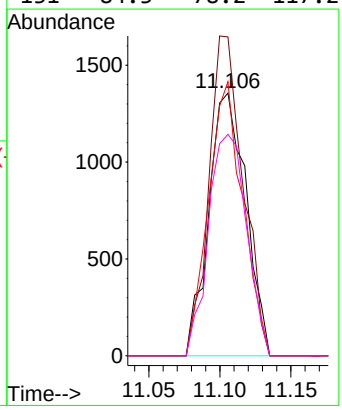


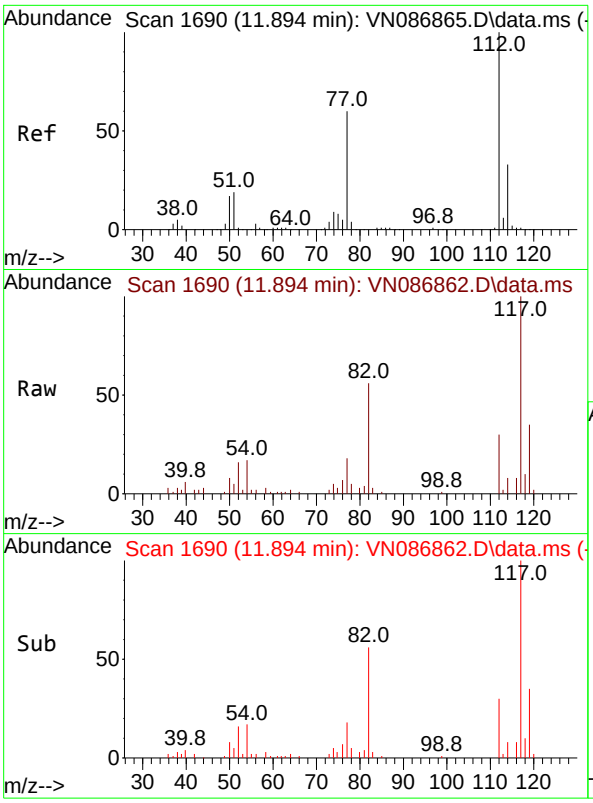


#64
Tetrachloroethene
Concen: 1.123 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:164 Resp: 2473

Ion	Ratio	Lower	Upper
164	100		
166	121.4	101.8	152.8
129	104.4	83.0	124.4
131	84.3	78.2	117.2



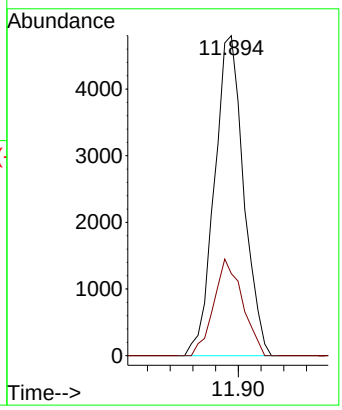


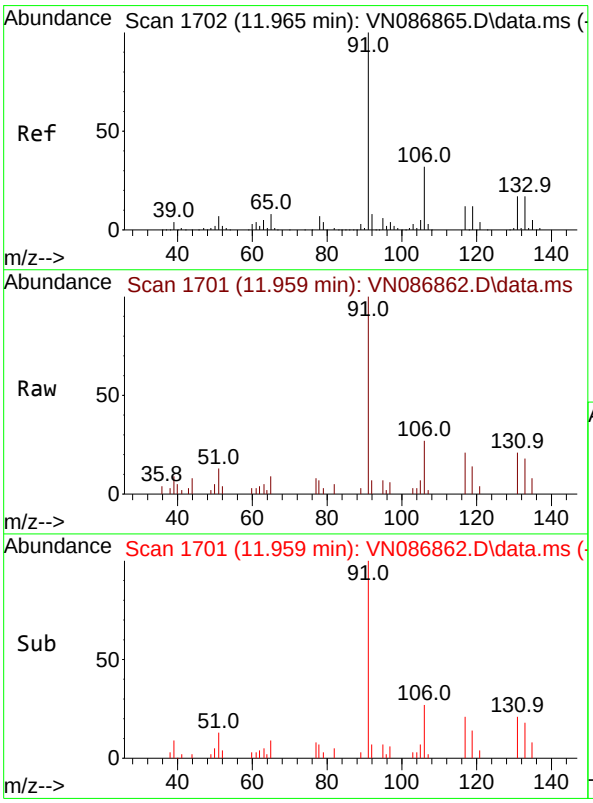
#65
Chlorobenzene
Concen: 1.118 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:112 Resp: 8581

Ion	Ratio	Lower	Upper
112	100		
114	25.7	26.2	39.2#

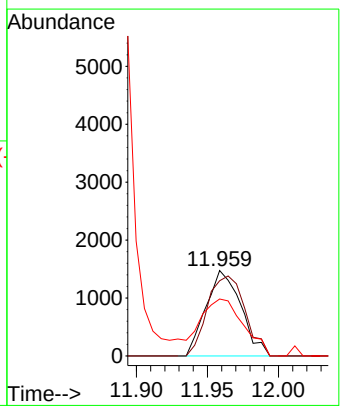


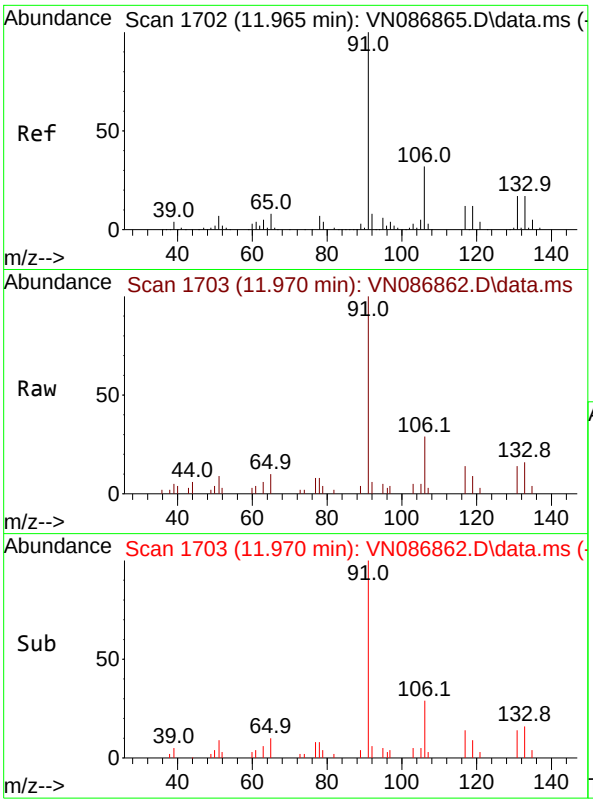


#66
1,1,1,2-Tetrachloroethane
Concen: 1.023 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:131 Resp: 2523

Ion	Ratio	Lower	Upper
131	100		
133	100.9	48.3	144.8
119	0.0	34.0	101.8#



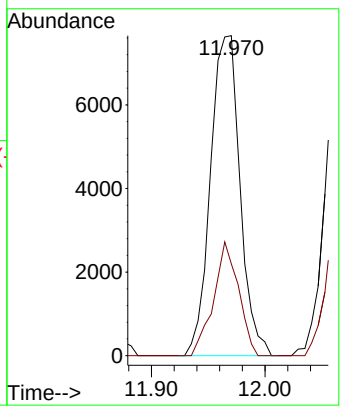


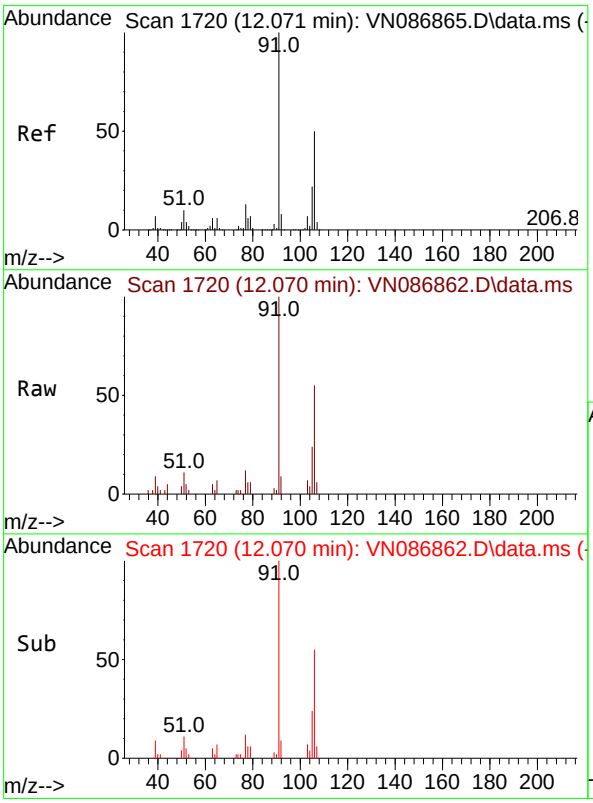
#67
Ethyl Benzene
Concen: 1.047 ug/l
RT: 11.970 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 13845

Ion	Ratio	Lower	Upper
91	100		
106	28.7	25.4	38.2

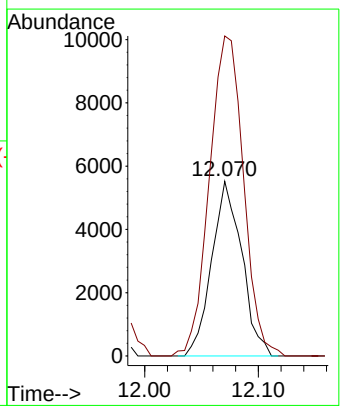


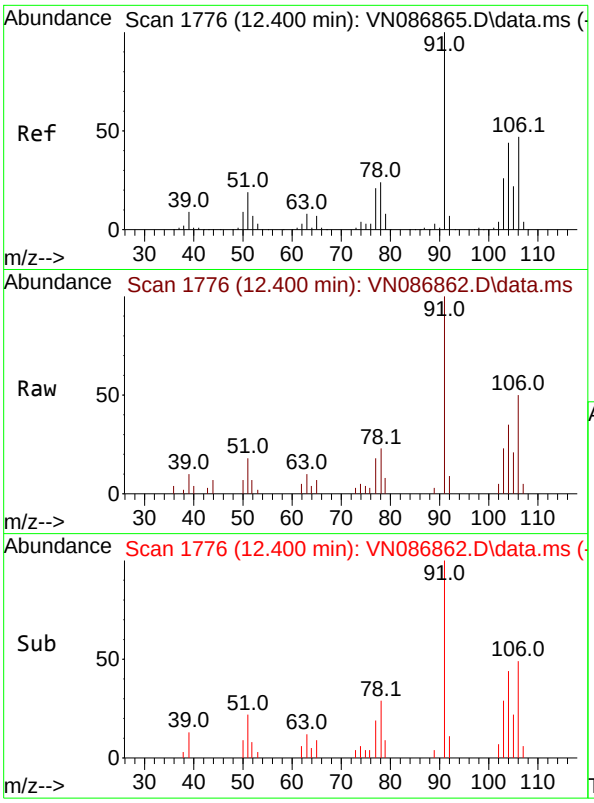


#68
m/p-Xylenes
Concen: 2.008 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:106 Resp: 10163

Ion	Ratio	Lower	Upper
106	100		
91	207.3	159.4	239.0



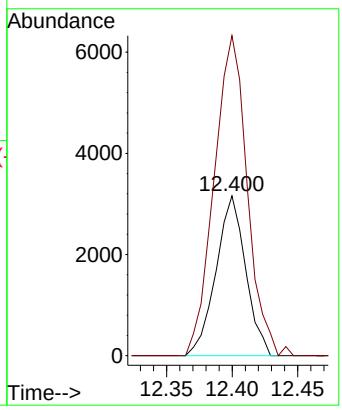


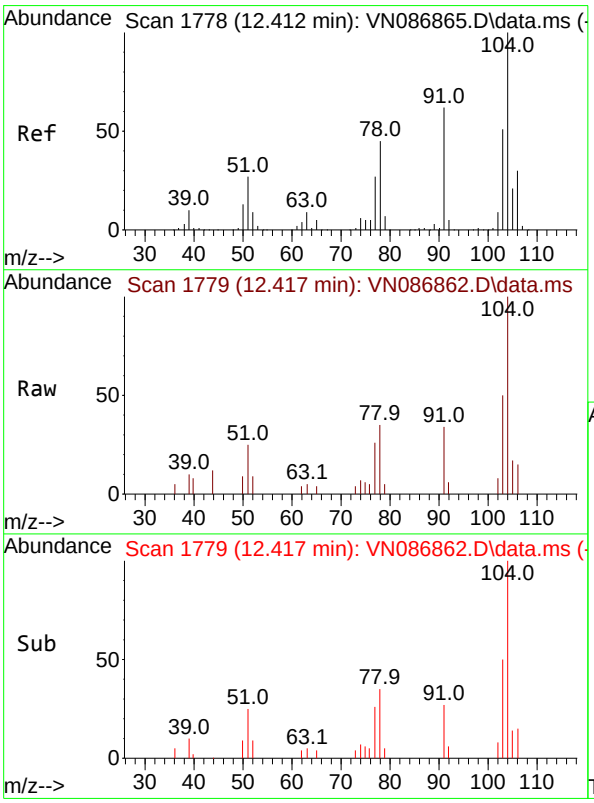
#69
o-Xylene
Concen: 1.025 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 4970

Ion	Ratio	Lower	Upper
106	100		
91	223.6	106.1	318.1

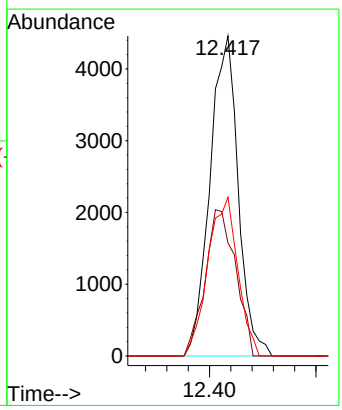


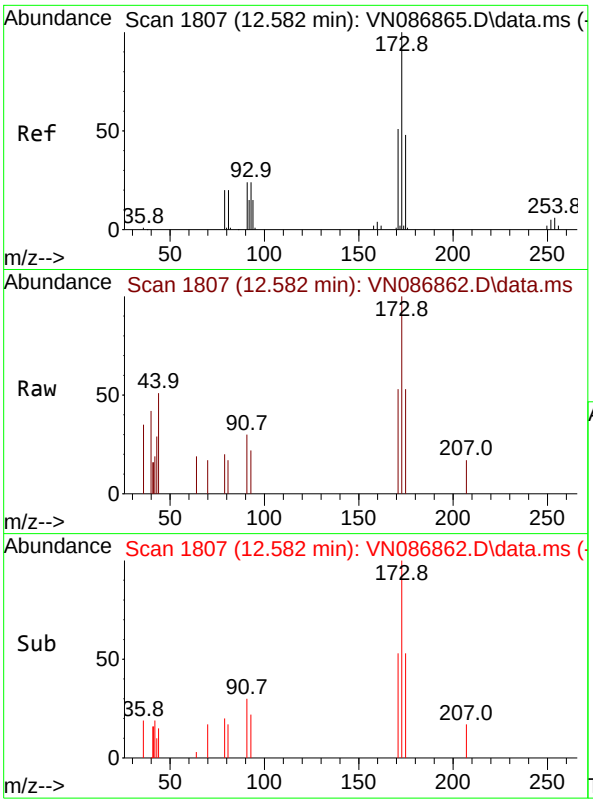


#70
Styrene
Concen: 0.987 ug/l
RT: 12.417 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:104 Resp: 8189

Ion	Ratio	Lower	Upper
104	100		
78	49.6	38.5	57.7
103	52.5	43.1	64.7



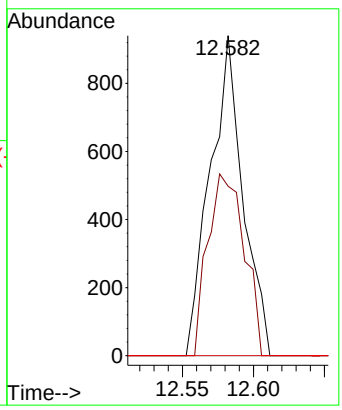


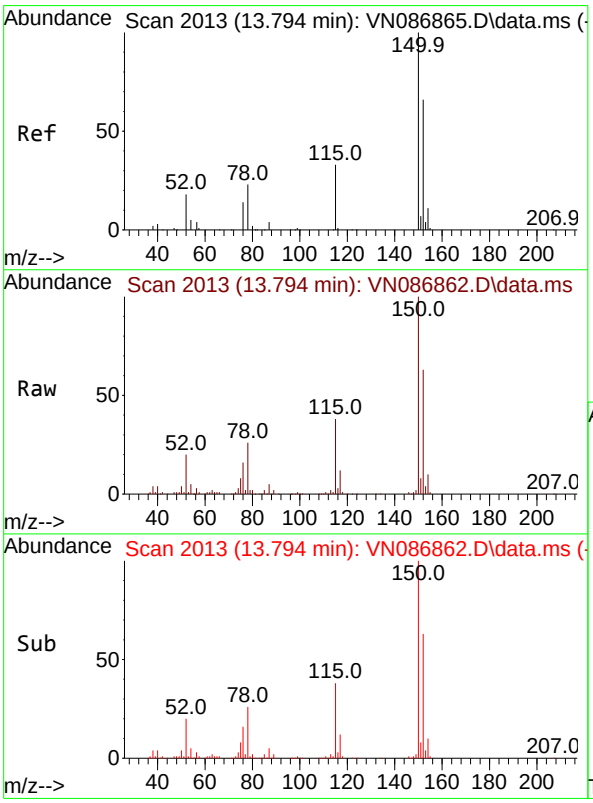
#71
Bromoform
Concen: 0.825 ug/l
RT: 12.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:173 Resp: 1508

Ion	Ratio	Lower	Upper
173	100		
175	63.1	24.1	72.4
254	0.0	0.0	0.0

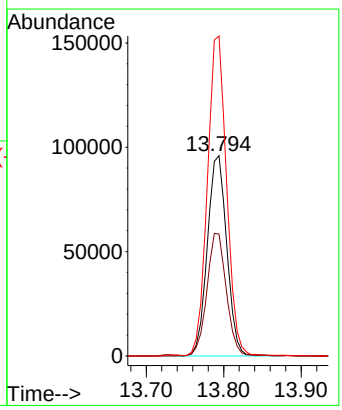


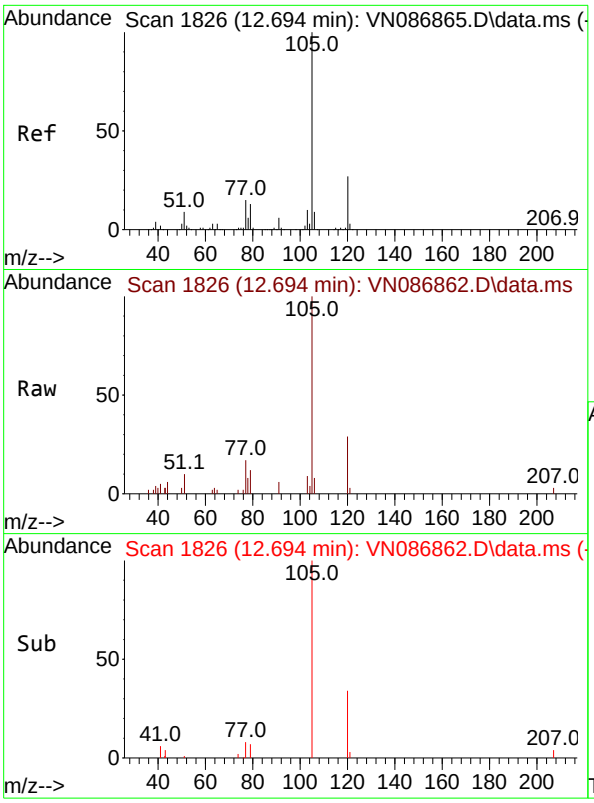


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:152 Resp: 167399

Ion	Ratio	Lower	Upper
152	100		
115	61.1	30.1	90.5
150	158.0	0.0	345.0



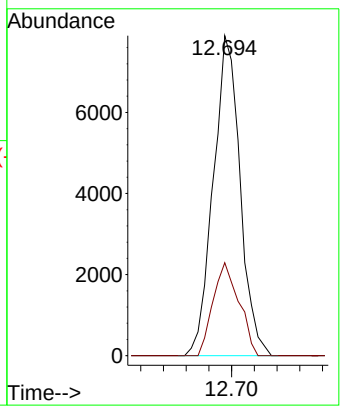


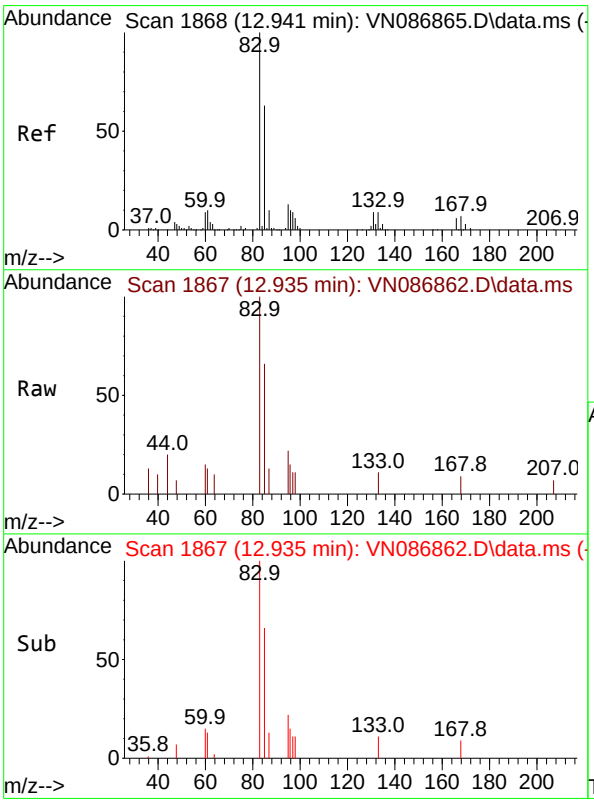
#73
Isopropylbenzene
Concen: 1.061 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 12938

Ion	Ratio	Lower	Upper
105	100		
120	28.1	13.5	40.4

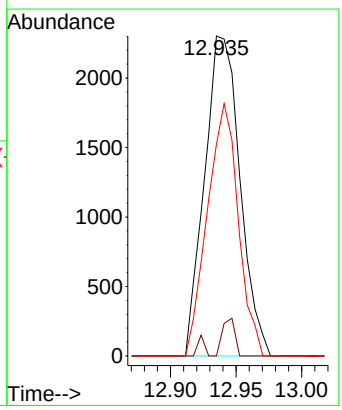


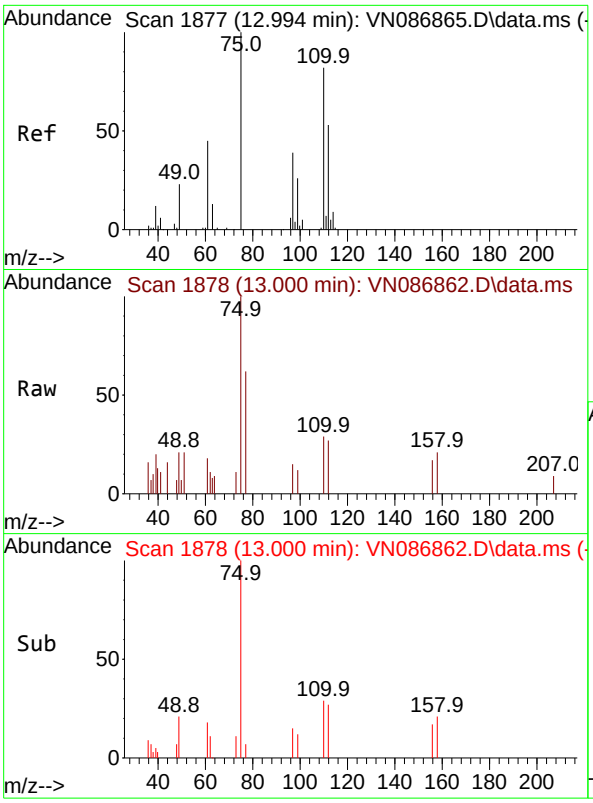


#75
1,1,2,2-Tetrachloroethane
Concen: 1.047 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 83 Resp: 4326

Ion	Ratio	Lower	Upper
83	100		
131	4.1	4.9	14.7#
85	68.6	32.0	96.0



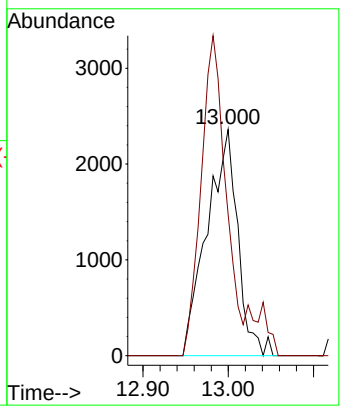


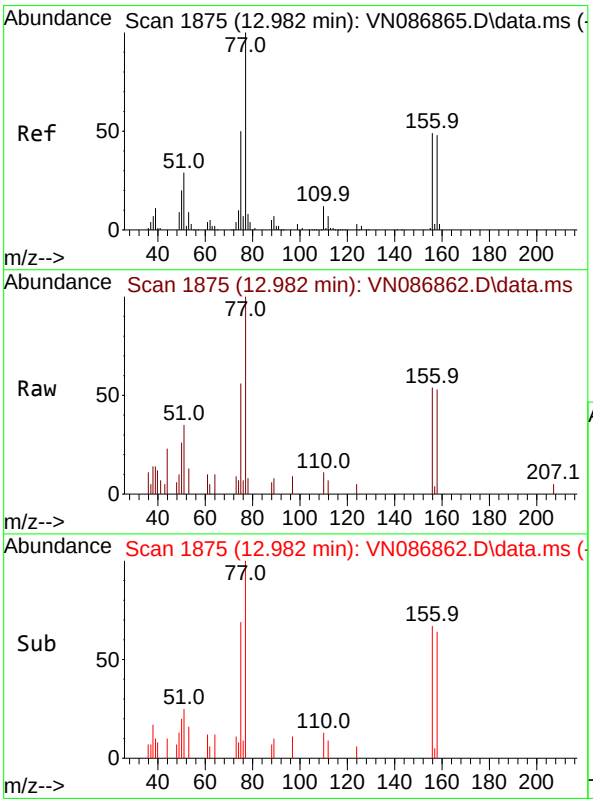
#76
1,2,3-Trichloropropane
Concen: 1.484 ug/l
RT: 13.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 5925

Ion	Ratio	Lower	Upper
75	100		
77	113.2	79.3	237.9

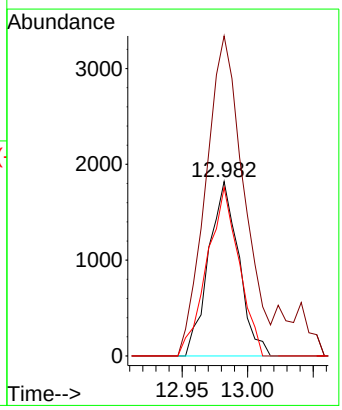


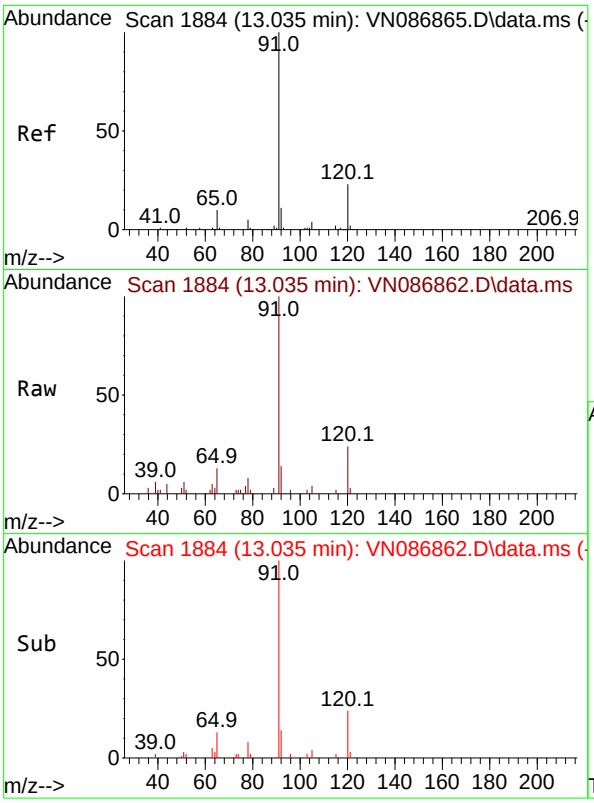


#77
Bromobenzene
Concen: 1.042 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:156 Resp: 2913

Ion	Ratio	Lower	Upper
156	100		
77	230.2	117.7	353.1
158	102.5	48.1	144.4



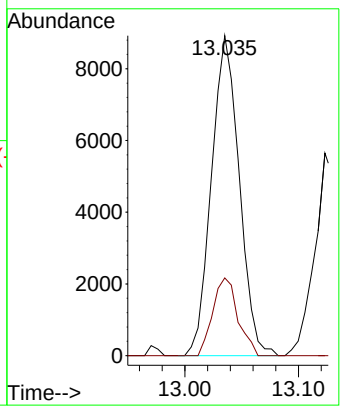


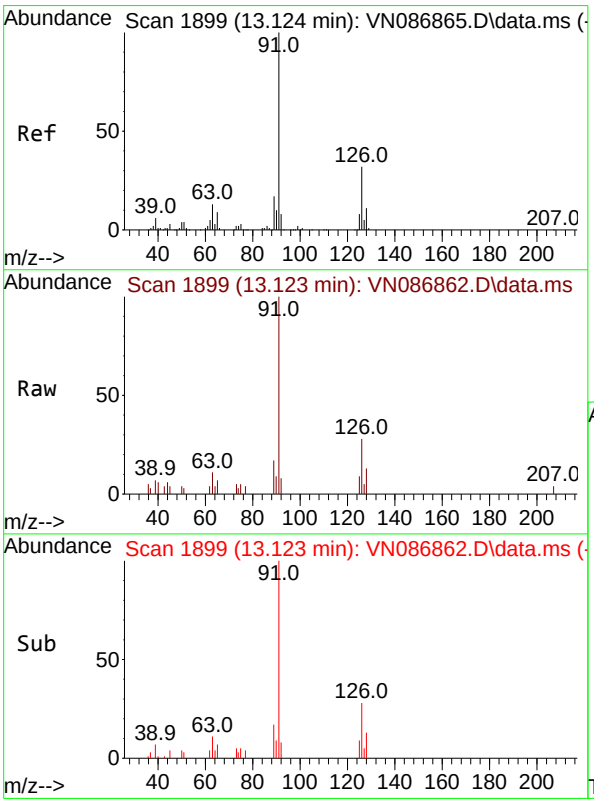
#78
n-propylbenzene
Concen: 1.023 ug/l
RT: 13.035 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 15168

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.4	34.2

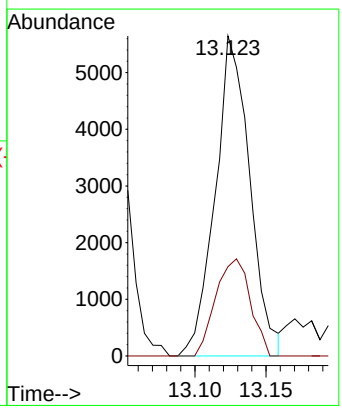


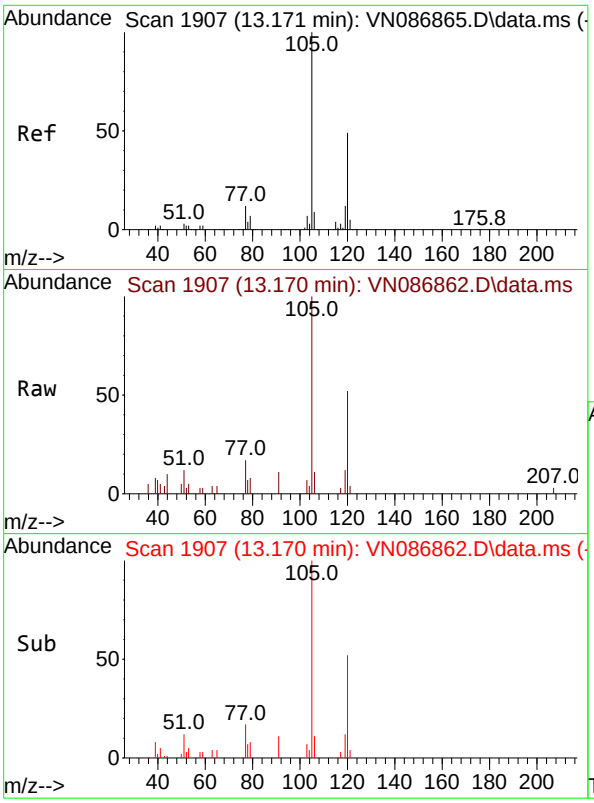


#79
2-Chlorotoluene
Concen: 1.074 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 91 Resp: 9550

Ion	Ratio	Lower	Upper
91	100		
126	30.4	16.2	48.5



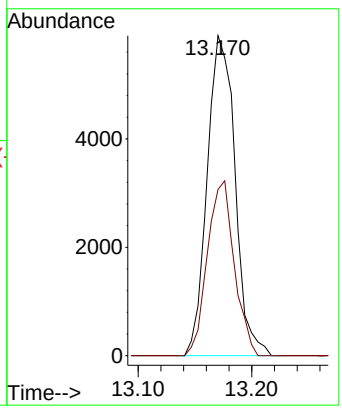


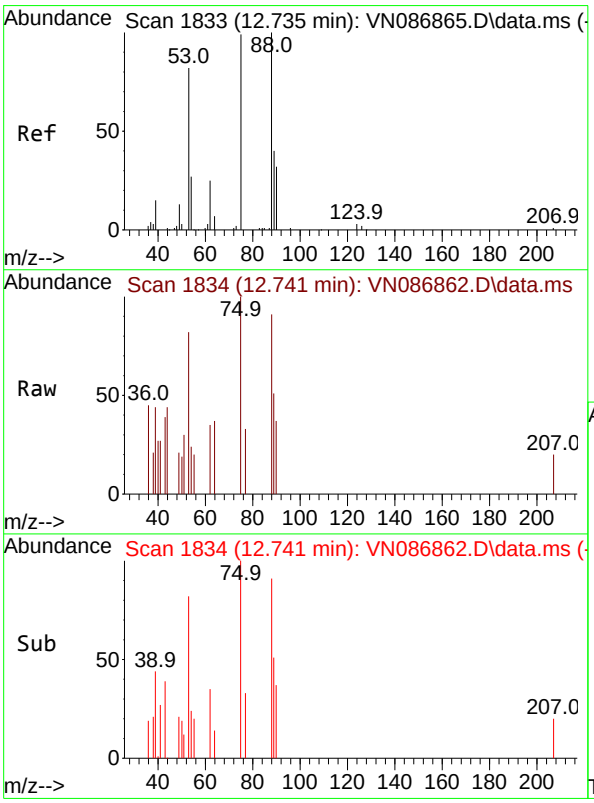
#80
1,3,5-Trimethylbenzene
Concen: 0.999 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 10058

Ion	Ratio	Lower	Upper
105	100		
120	52.7	24.9	74.6

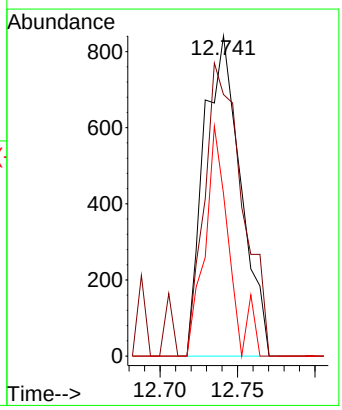


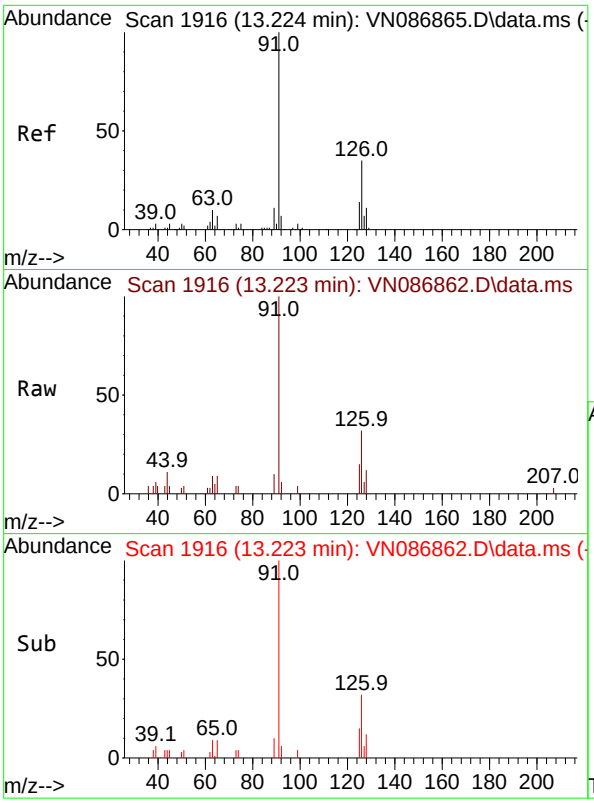


#81
trans-1,4-Dichloro-2-butene
Concen: 0.805 ug/l
RT: 12.741 min Scan# 1834
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 75 Resp: 1392

Ion	Ratio	Lower	Upper
75	100		
53	93.8	66.6	99.8
89	46.6	36.7	55.1



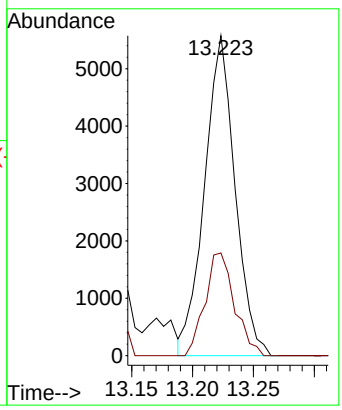


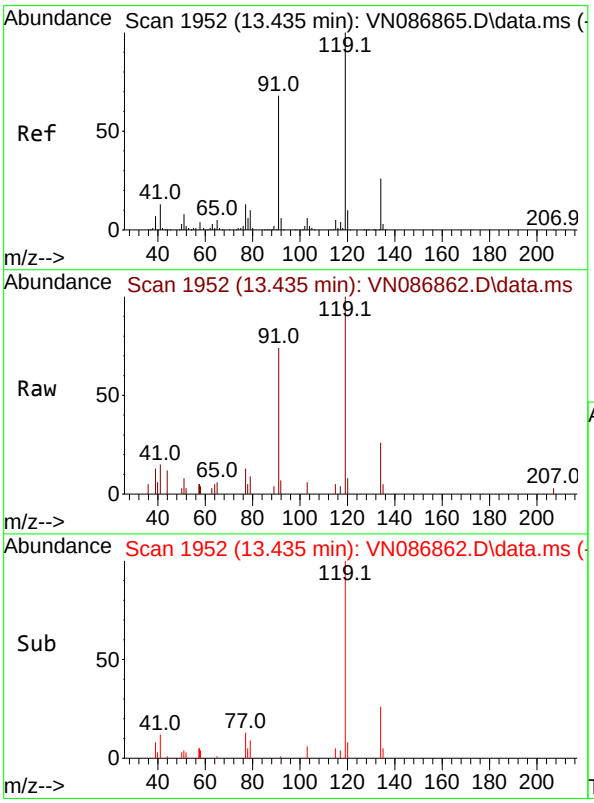
#82
4-Chlorotoluene
Concen: 1.079 ug/l
RT: 13.223 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 9706

Ion	Ratio	Lower	Upper
91	100		
126	31.1	16.7	50.1

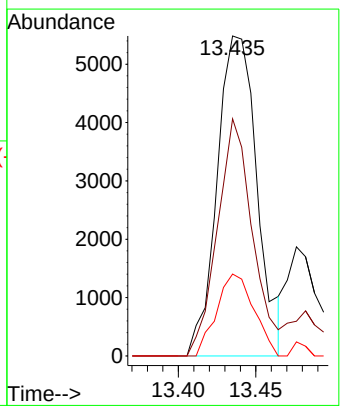


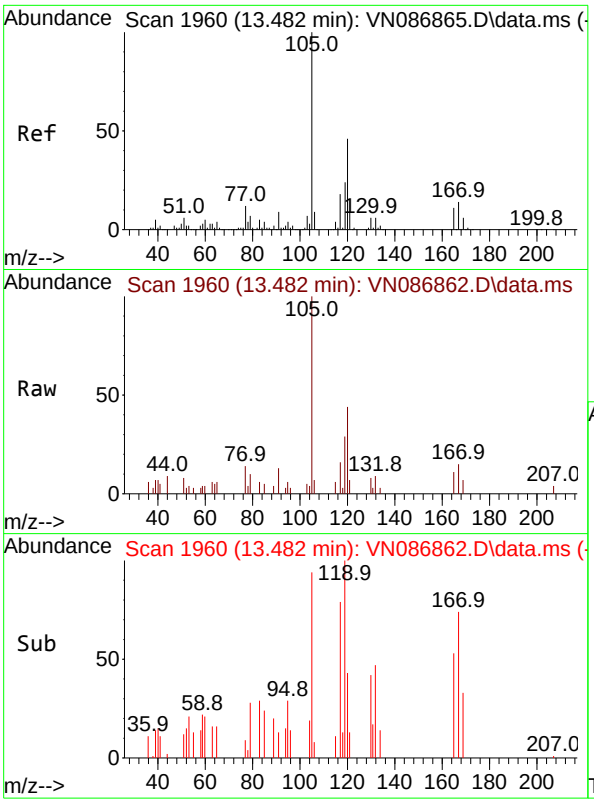


#83
tert-Butylbenzene
Concen: 1.069 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:119 Resp: 9849

Ion	Ratio	Lower	Upper
119	100		
91	65.3	32.1	96.5
134	23.9	13.4	40.1



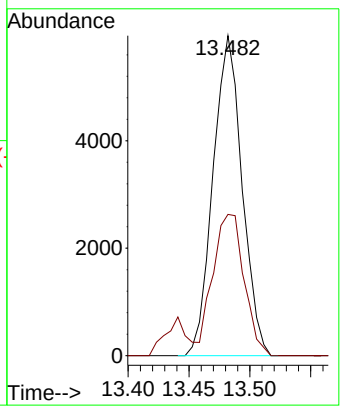


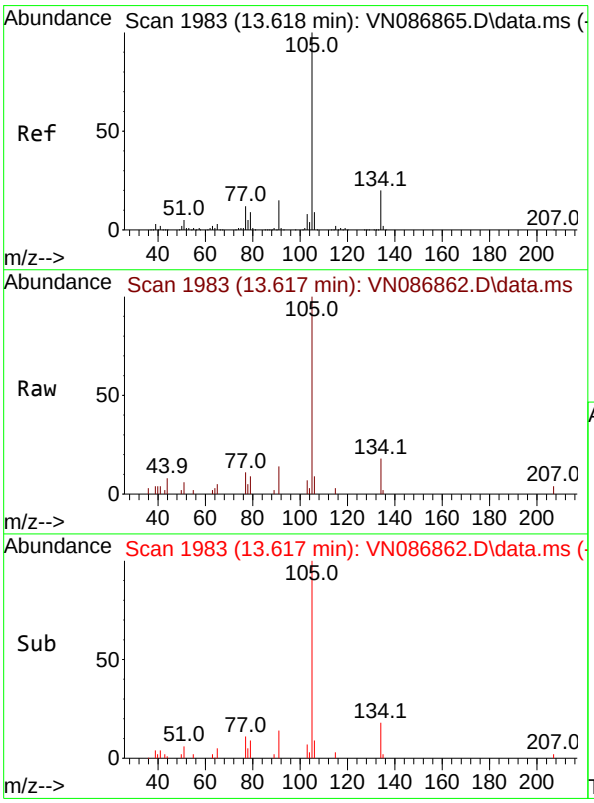
#84
1,2,4-Trimethylbenzene
Concen: 0.979 ug/l
RT: 13.482 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 9882

Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.2	69.6

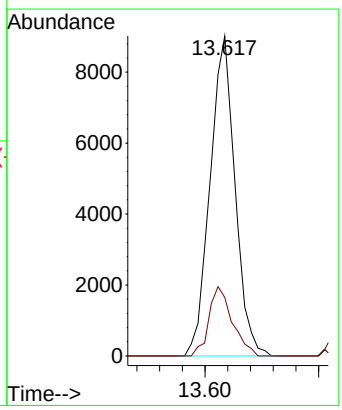


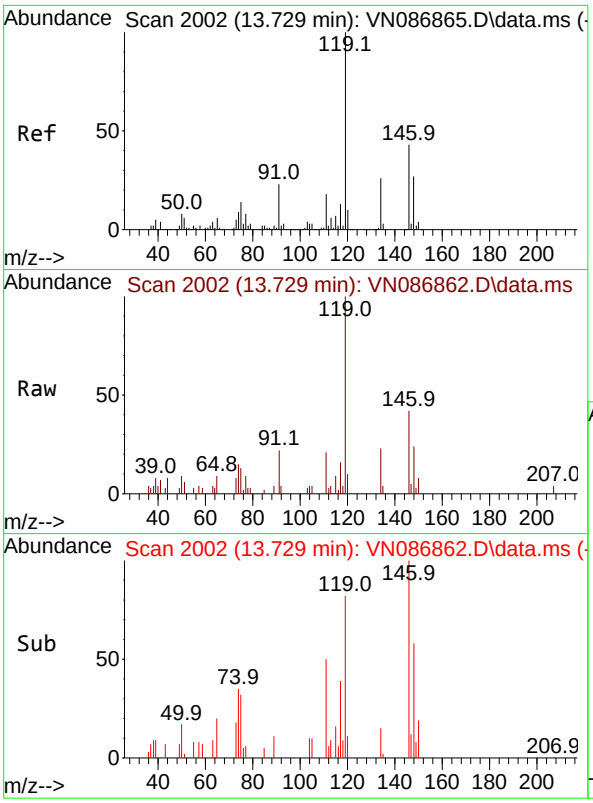


#85
sec-Butylbenzene
Concen: 1.029 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:105 Resp: 13775

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0



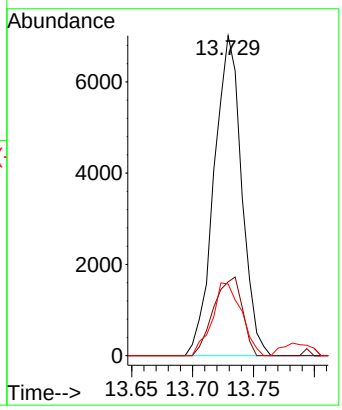


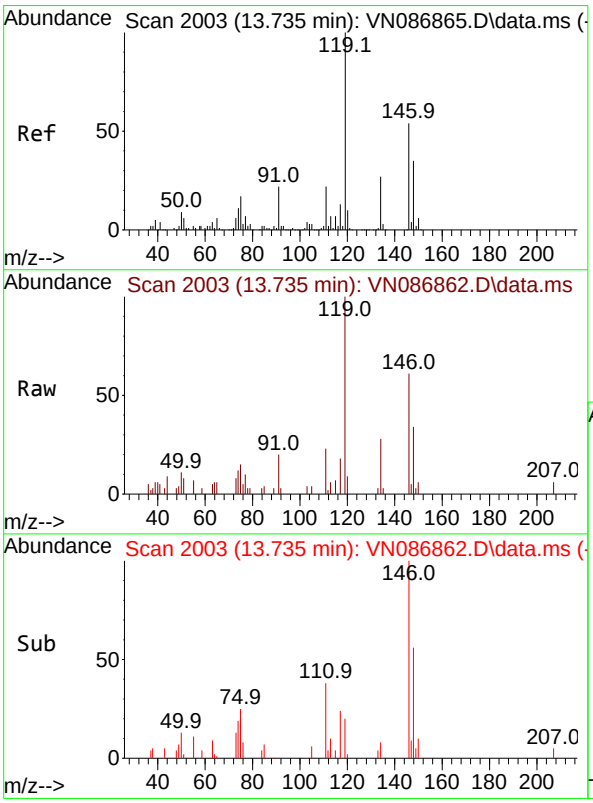
#86
p-Isopropyltoluene
Concen: 1.000 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:119 Resp: 11065

Ion	Ratio	Lower	Upper
119	100		
134	25.4	13.5	40.4
91	24.1	11.5	34.4

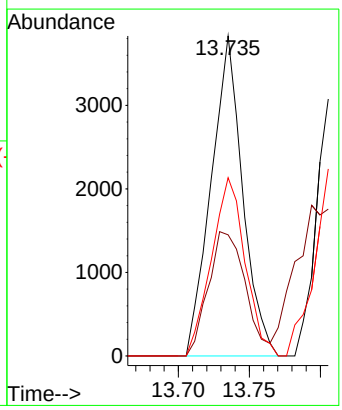


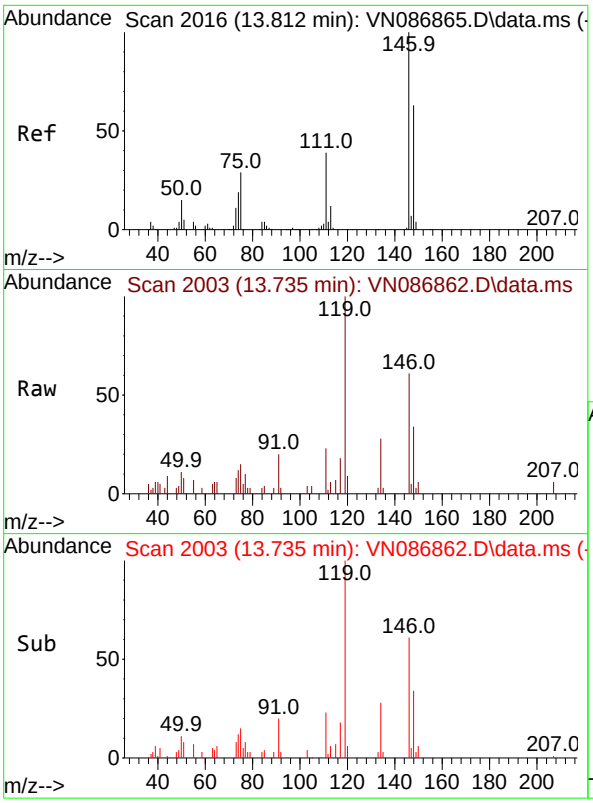


#87
1,3-Dichlorobenzene
Concen: 1.073 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:146 Resp: 5903

Ion	Ratio	Lower	Upper
146	100		
111	45.8	20.9	62.8
148	59.7	32.0	96.2



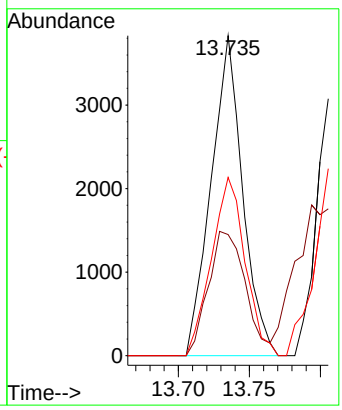


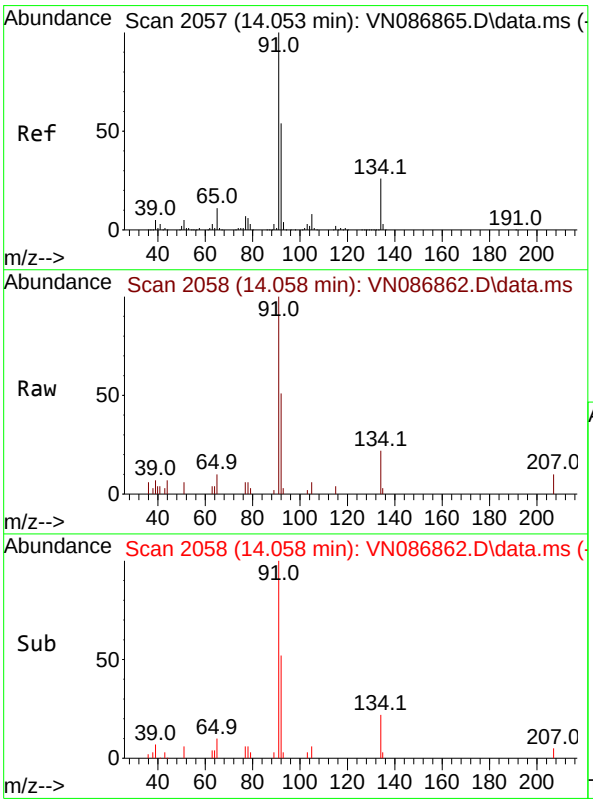
#88
1,4-Dichlorobenzene
Concen: 1.052 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.077 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 5903

Ion	Ratio	Lower	Upper
146	100		
111	45.8	19.9	59.7
148	59.7	31.8	95.4

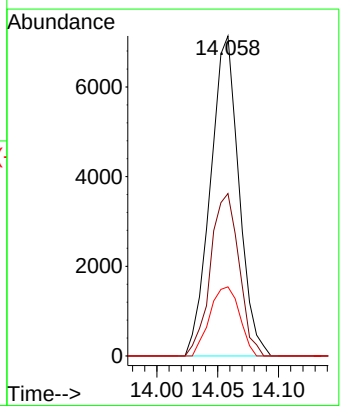


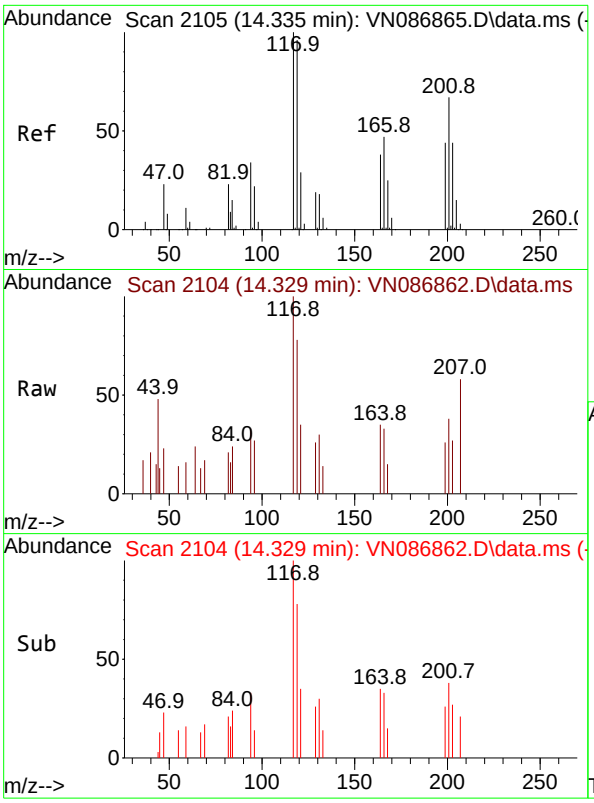


#89
n-Butylbenzene
Concen: 1.085 ug/l
RT: 14.058 min Scan# 2058
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 91 Resp: 11627

Ion	Ratio	Lower	Upper
91	100		
92	50.8	27.5	82.4
134	22.6	13.0	39.0



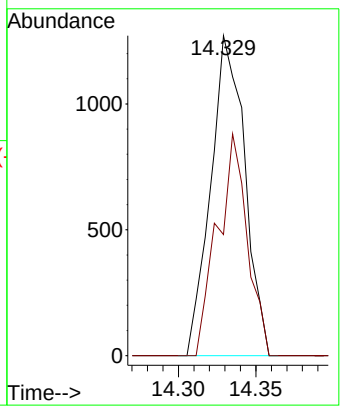


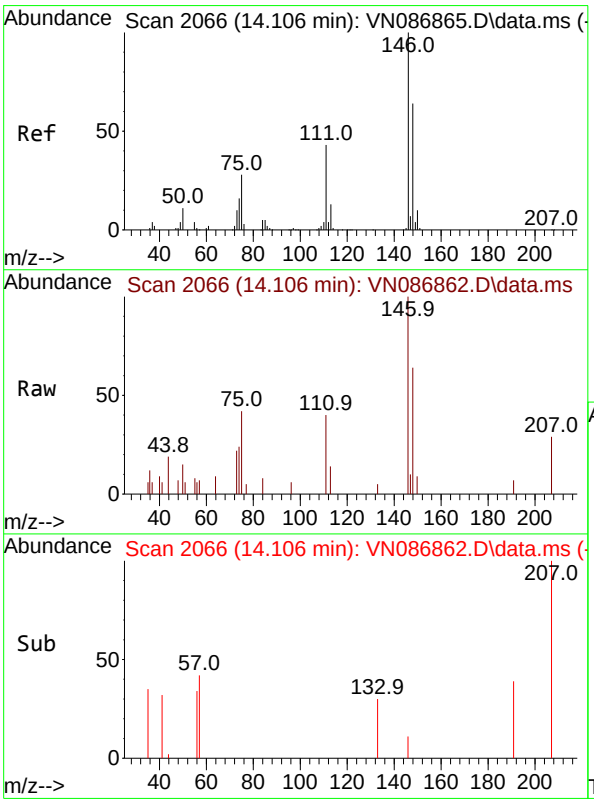
#90
Hexachloroethane
Concen: 1.036 ug/l
RT: 14.329 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:117 Resp: 1942

Ion	Ratio	Lower	Upper
117	100		
201	60.6	33.2	99.6

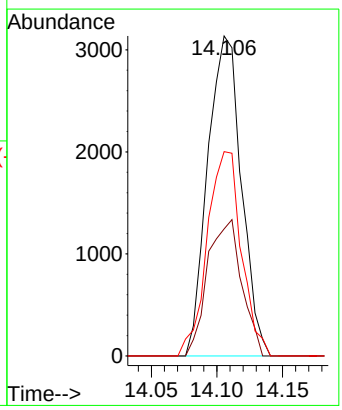


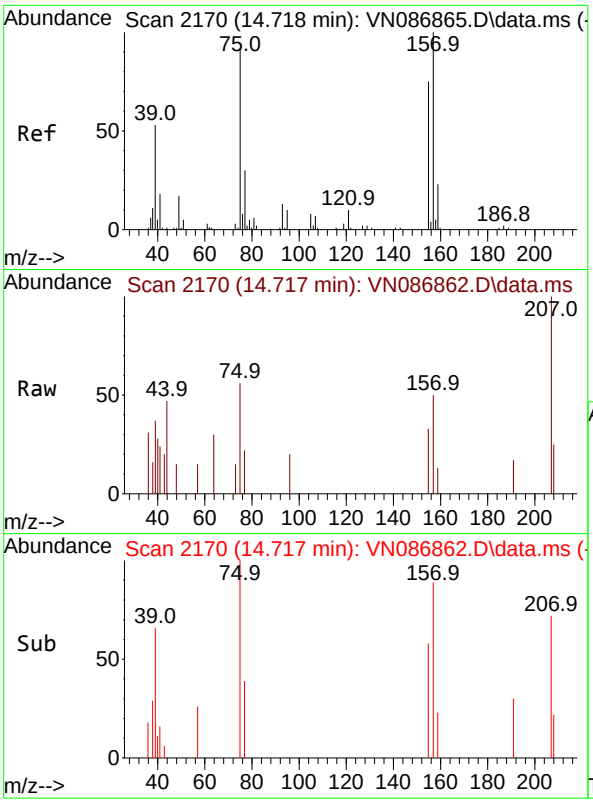


#91
1,2-Dichlorobenzene
Concen: 1.061 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:146 Resp: 5607

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.6	64.6
148	64.7	31.7	95.1



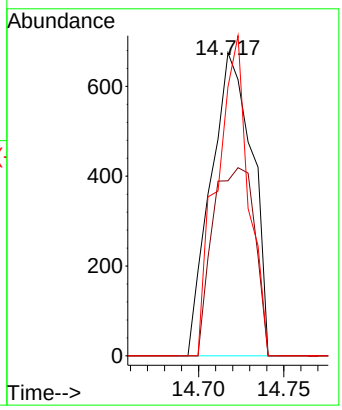


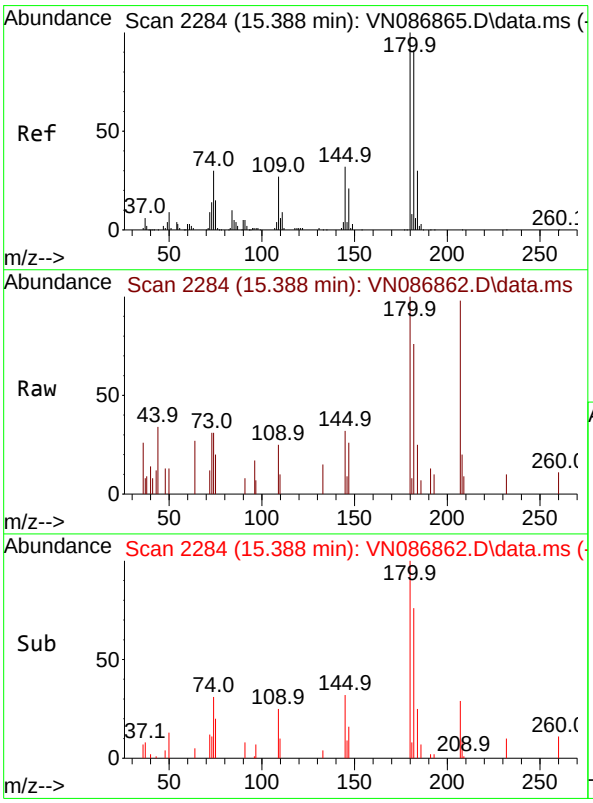
#92
1,2-Dibromo-3-Chloropropane
Concen: 1.150 ug/l
RT: 14.717 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 1136

Ion	Ratio	Lower	Upper
75	100		
155	63.6	41.1	123.4
157	81.0	52.7	158.1

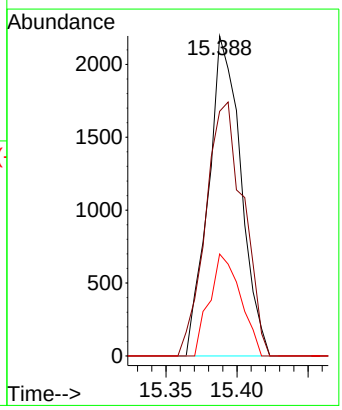


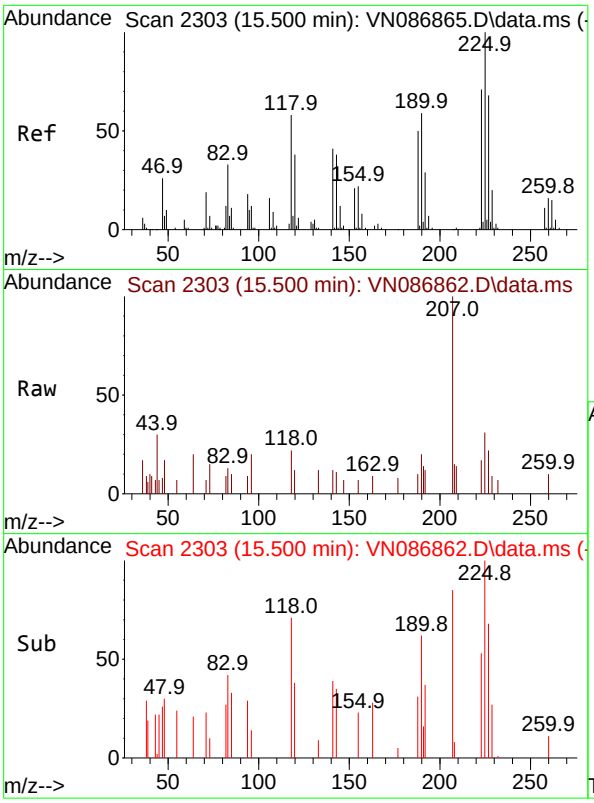


#93
1,2,4-Trichlorobenzene
Concen: 1.034 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:180 Resp: 3489

Ion	Ratio	Lower	Upper
180	100		
182	92.1	46.9	140.7
145	30.4	16.0	47.9



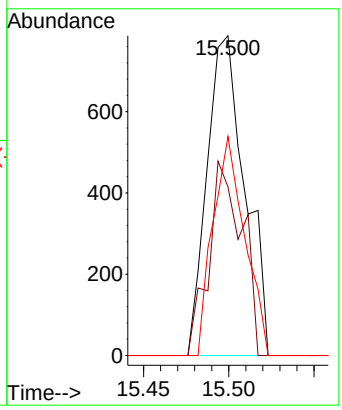


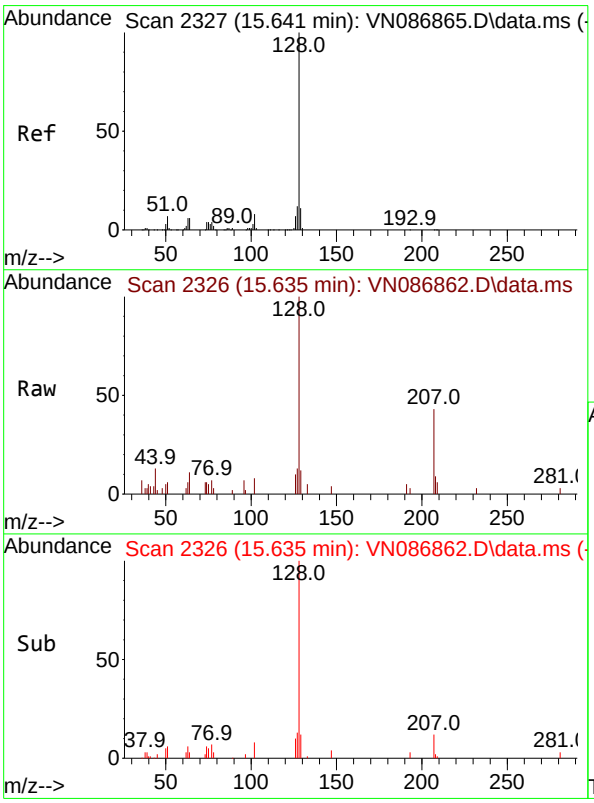
#94
Hexachlorobutadiene
Concen: 0.969 ug/l
RT: 15.500 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:225 Resp: 1219

Ion	Ratio	Lower	Upper
225	100		
223	53.6	33.5	100.4
227	57.5	31.1	93.5

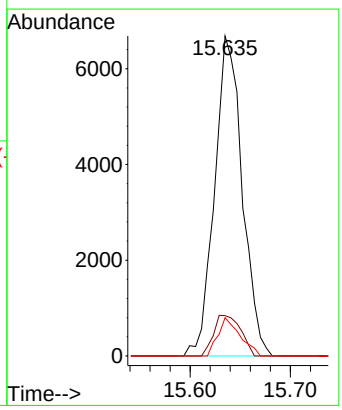


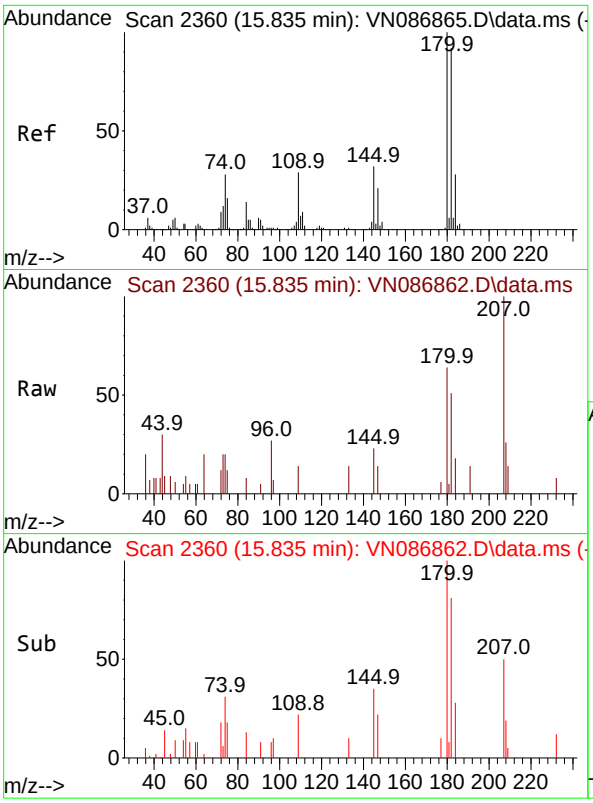


#95
Naphthalene
Concen: 1.018 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:128 Resp: 12789

Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.2	15.2
129	9.5	8.8	13.2



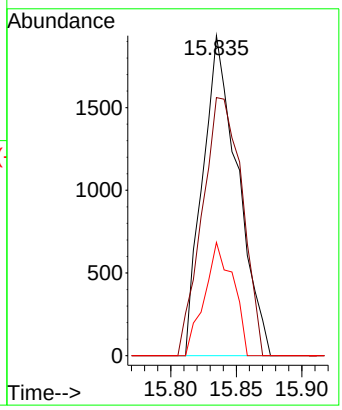


#96
1,2,3-Trichlorobenzene
Concen: 1.072 ug/l
RT: 15.835 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:180 Resp: 3594

Ion	Ratio	Lower	Upper
180	100		
182	91.6	47.0	141.0
145	29.0	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086863.D
Acq On : 06 Jun 2025 13:17
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Jun 07 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	229701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	423980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	371851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	181065	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	16818	5.468	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.940%#		
35) Dibromofluoromethane	8.177	113	12867	5.121	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.240%#		
50) Toluene-d8	10.571	98	52794	5.308	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.620%#		
62) 4-Bromofluorobenzene	12.847	95	18697	5.059	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	10.120%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	10196	4.452	ug/l	93
3) Chloromethane	2.395	50	15025	5.080	ug/l	98
4) Vinyl Chloride	2.554	62	15384	5.043	ug/l	97
5) Bromomethane	2.989	94	8606	5.041	ug/l	97
6) Chloroethane	3.154	64	10190	5.171	ug/l	96
7) Trichlorofluoromethane	3.518	101	20740	5.203	ug/l	99
8) Diethyl Ether	3.971	74	9121	5.252	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.401	101	13034	5.205	ug/l	97
10) Methyl Iodide	4.606	142	16530	5.092	ug/l	98
11) Tert butyl alcohol	5.542	59	22000	26.363	ug/l	99
12) 1,1-Dichloroethene	4.359	96	13610	5.323	ug/l	94
13) Acrolein	4.195	56	8401	31.804	ug/l	99
14) Allyl chloride	5.042	41	20925	4.935	ug/l	99
15) Acrylonitrile	5.736	53	49826	25.545	ug/l	99
16) Acetone	4.448	43	41981	25.741	ug/l	99
17) Carbon Disulfide	4.736	76	37246	5.267	ug/l	97
18) Methyl Acetate	5.048	43	24096	5.070	ug/l	97
19) Methyl tert-butyl Ether	5.812	73	46823	5.058	ug/l	95
20) Methylene Chloride	5.300	84	15809	5.178	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	15480	5.442	ug/l #	81
22) Diisopropyl ether	6.689	45	46396	5.191	ug/l	99
23) Vinyl Acetate	6.618	43	194334	25.735	ug/l	100
24) 1,1-Dichloroethane	6.583	63	26473	5.147	ug/l	99
25) 2-Butanone	7.494	43	68629	25.888	ug/l	99
26) 2,2-Dichloropropane	7.500	77	18288	4.571	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	17594	5.172	ug/l	98
28) Bromochloromethane	7.830	49	12958	5.124	ug/l #	97
29) Tetrahydrofuran	7.853	42	44749	25.912	ug/l	98
30) Chloroform	7.977	83	26450	5.149	ug/l	95
31) Cyclohexane	8.271	56	29938	6.002	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	22857	5.232	ug/l #	50
36) 1,1-Dichloropropene	8.377	75	19410	5.184	ug/l	98
37) Ethyl Acetate	7.571	43	26073	5.470	ug/l	97
38) Carbon Tetrachloride	8.371	117	19056	5.184	ug/l	99
39) Methylcyclohexane	9.606	83	27353	5.333	ug/l	95
40) Benzene	8.612	78	63646	5.199	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086863.D
Acq On : 06 Jun 2025 13:17
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Jun 07 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.783	41	13518	5.050	ug/l		99
42) 1,2-Dichloroethane	8.683	62	19329	5.205	ug/l		98
43) Isopropyl Acetate	8.700	43	40268	5.264	ug/l		98
44) Trichloroethene	9.359	130	15245	5.251	ug/l		96
45) 1,2-Dichloropropane	9.624	63	15632	5.248	ug/l		99
46) Dibromomethane	9.718	93	10241	5.176	ug/l		99
47) Bromodichloromethane	9.888	83	20512	5.039	ug/l		97
48) Methyl methacrylate	9.688	41	17591	4.996	ug/l		94
49) 1,4-Dioxane	9.700	88	6141	95.874	ug/l	#	93
51) 4-Methyl-2-Pentanone	10.447	43	116434	25.283	ug/l		97
52) Toluene	10.630	92	38744	5.178	ug/l		99
53) t-1,3-Dichloropropene	10.841	75	22285	4.896	ug/l		98
54) cis-1,3-Dichloropropene	10.318	75	24477	5.026	ug/l		93
55) 1,1,2-Trichloroethane	11.018	97	15068	5.234	ug/l		97
56) Ethyl methacrylate	10.888	69	21893	4.774	ug/l		95
57) 1,3-Dichloropropane	11.165	76	25452	5.096	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.165	63	64722	23.664	ug/l		98
59) 2-Hexanone	11.212	43	59884	20.188	ug/l		99
60) Dibromochloromethane	11.359	129	14884	4.962	ug/l		98
61) 1,2-Dibromoethane	11.471	107	15172	5.141	ug/l		99
64) Tetrachloroethene	11.106	164	12322	5.236	ug/l		92
65) Chlorobenzene	11.894	112	42195	5.145	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.965	131	13897	5.271	ug/l		97
67) Ethyl Benzene	11.965	91	73443	5.199	ug/l		97
68) m/p-Xylenes	12.071	106	55859	10.330	ug/l		100
69) o-Xylene	12.400	106	26004	5.021	ug/l		96
70) Styrene	12.412	104	44380	5.008	ug/l		98
71) Bromoform	12.582	173	9890	5.063	ug/l	#	96
73) Isopropylbenzene	12.694	105	67878	5.146	ug/l		100
74) N-amyl acetate	12.559	43	7051	1.611	ug/l	#	53
75) 1,1,2,2-Tetrachloroethane	12.935	83	23516	5.262	ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	31004	7.181	ug/l		74
77) Bromobenzene	12.976	156	15485	5.119	ug/l		92
78) n-propylbenzene	13.035	91	83781	5.226	ug/l		99
79) 2-Chlorotoluene	13.124	91	49297	5.128	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	55961	5.139	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.741	75	9234	4.939	ug/l		94
82) 4-Chlorotoluene	13.223	91	49924	5.132	ug/l		100
83) tert-Butylbenzene	13.435	119	50874	5.103	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	56525	5.176	ug/l		100
85) sec-Butylbenzene	13.618	105	74711	5.161	ug/l		99
86) p-Isopropyltoluene	13.729	119	62016	5.182	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	30949	5.200	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	32342	5.330	ug/l		96
89) n-Butylbenzene	14.053	91	59601	5.142	ug/l		99
90) Hexachloroethane	14.335	117	9725	4.794	ug/l		95
91) 1,2-Dichlorobenzene	14.106	146	29897	5.228	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5731	5.363	ug/l		93
93) 1,2,4-Trichlorobenzene	15.394	180	18778	5.143	ug/l		99
94) Hexachlorobutadiene	15.500	225	7072	5.199	ug/l		99
95) Naphthalene	15.641	128	67481	4.965	ug/l		99
96) 1,2,3-Trichlorobenzene	15.841	180	18262	5.034	ug/l		97

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086863.D
Acq On : 06 Jun 2025 13:17
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Jun 07 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

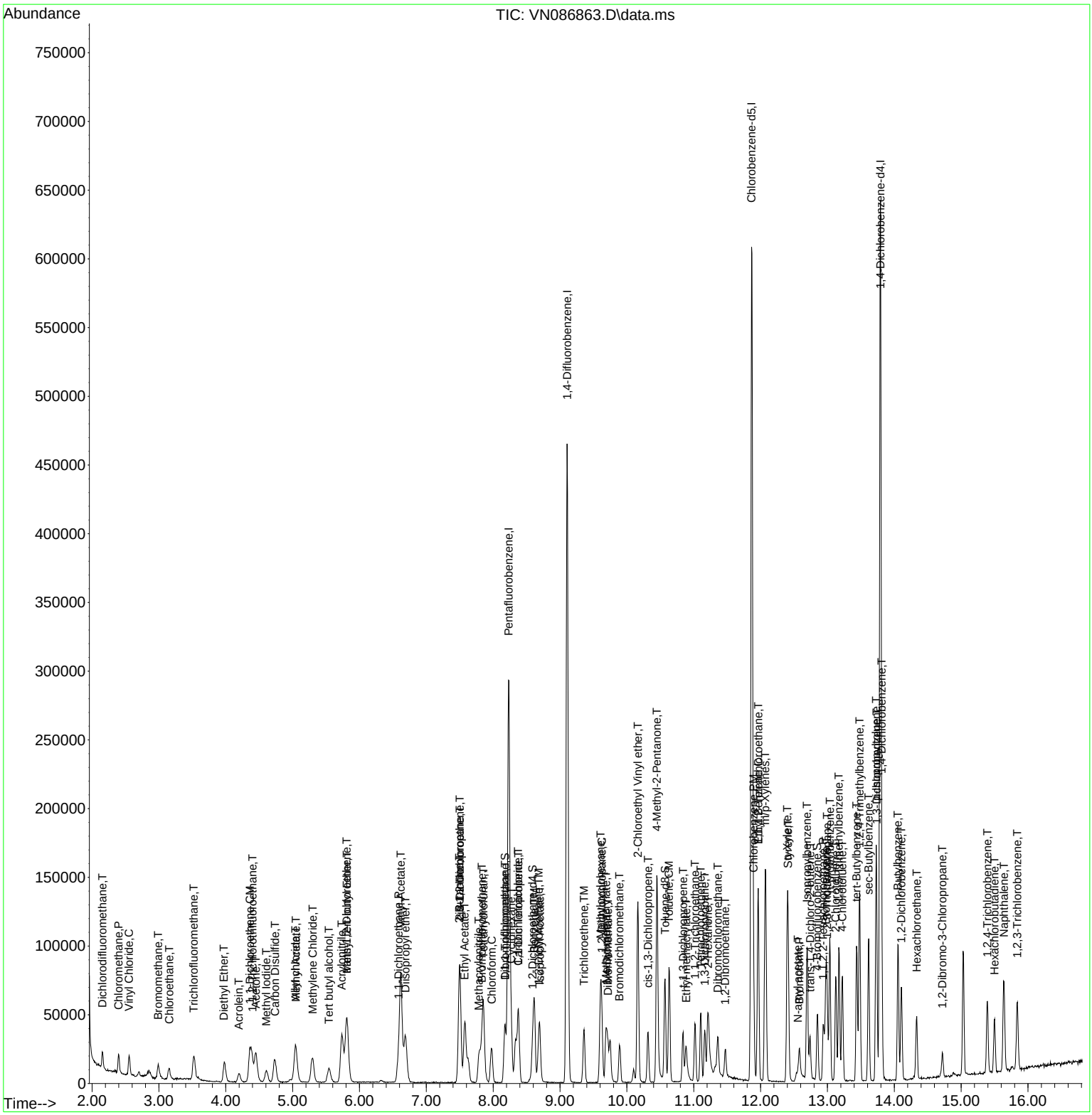
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

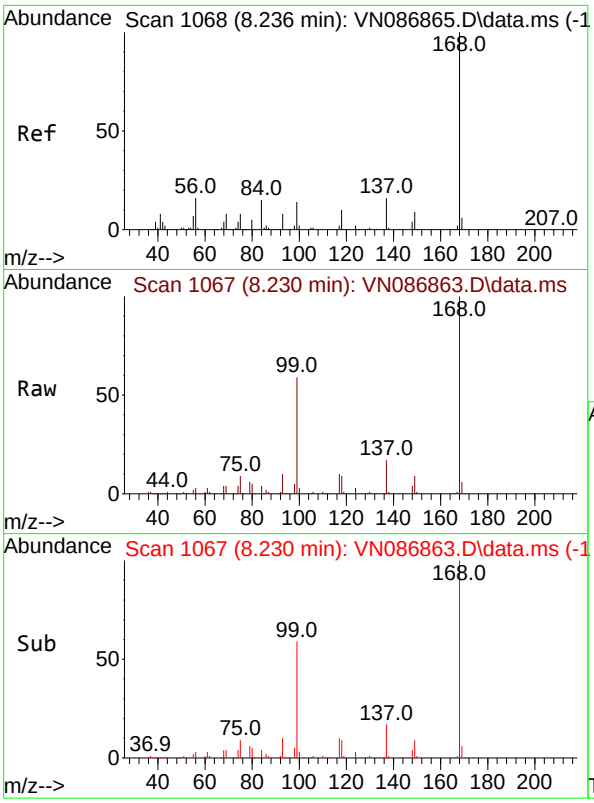
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086863.D
Acq On : 06 Jun 2025 13:17
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Quant Time: Jun 07 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration



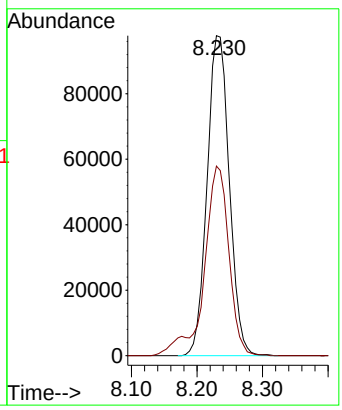


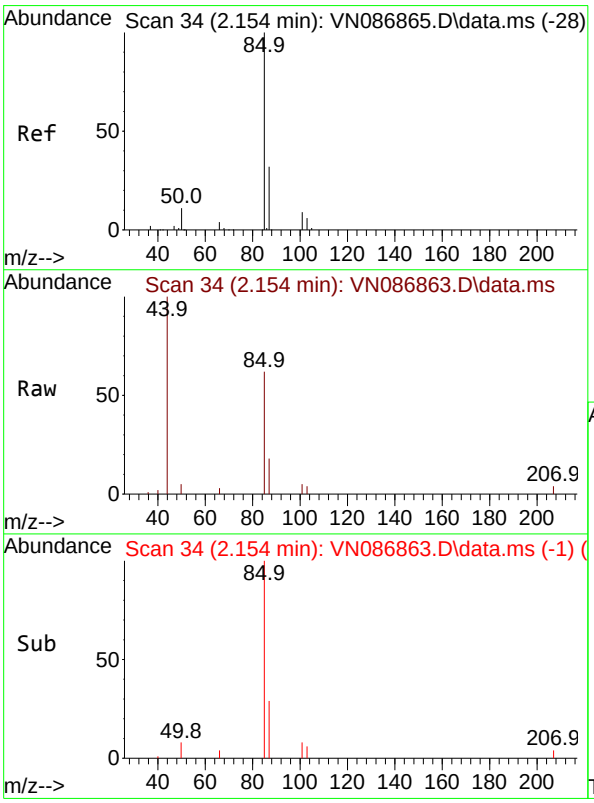
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 229701

Ion	Ratio	Lower	Upper
168	100		
99	59.2	49.1	73.7

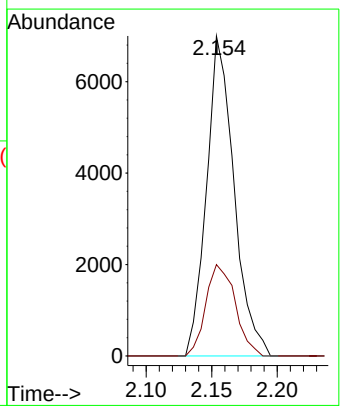


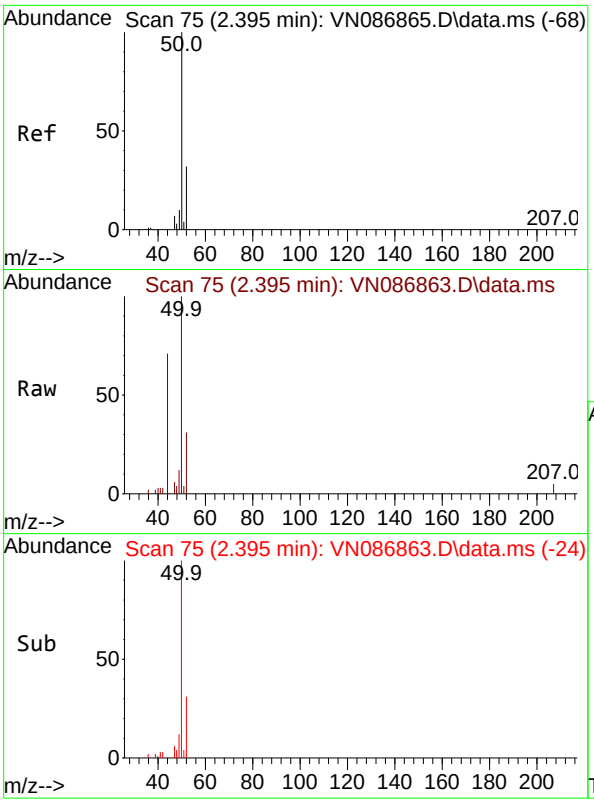


#2
Dichlorodifluoromethane
Concen: 4.452 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 85 Resp: 10196

Ion	Ratio	Lower	Upper
85	100		
87	28.6	16.2	48.6



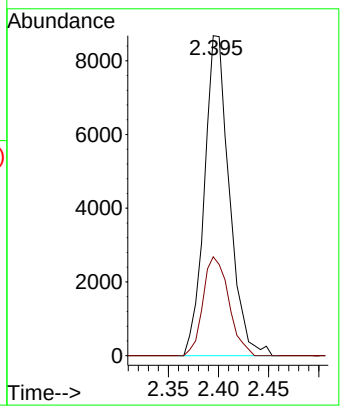


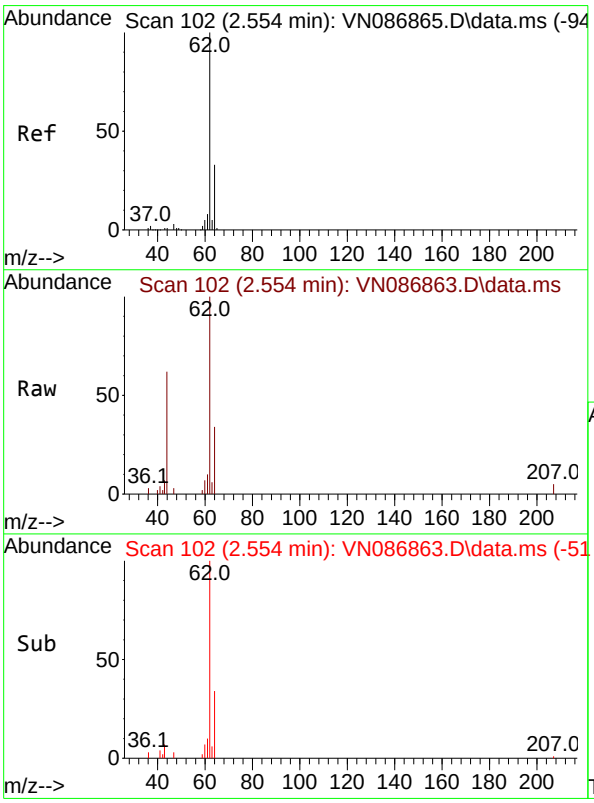
#3
Chloromethane
Concen: 5.080 ug/l
RT: 2.395 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 15025

Ion	Ratio	Lower	Upper
50	100		
52	30.9	25.7	38.5

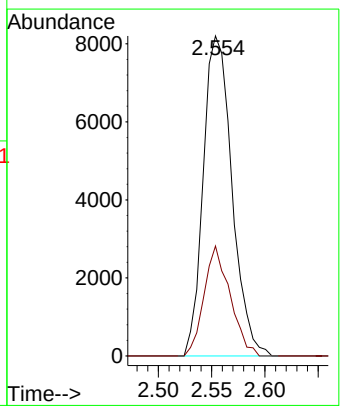


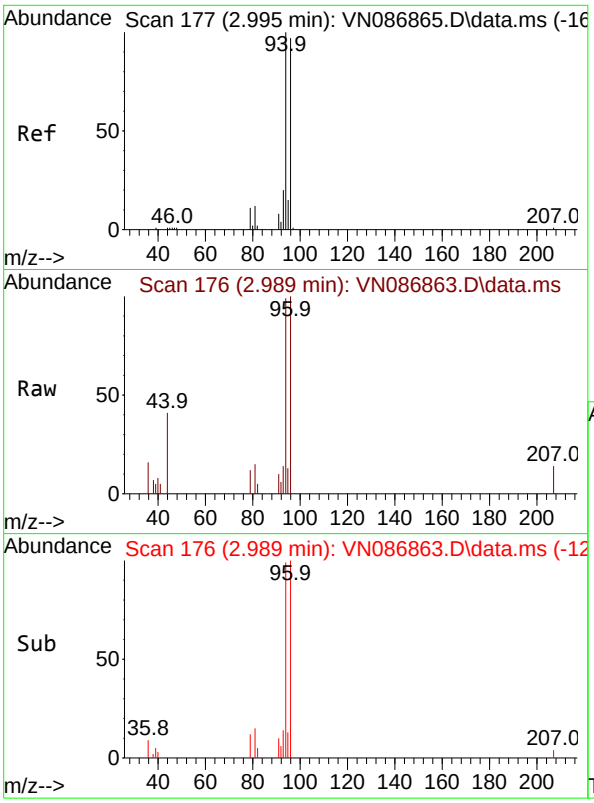


#4
Vinyl Chloride
Concen: 5.043 ug/l
RT: 2.554 min Scan# 102
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 62 Resp: 15384

Ion	Ratio	Lower	Upper
62	100		
64	34.3	26.0	39.0



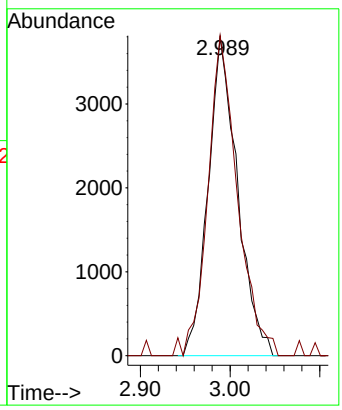


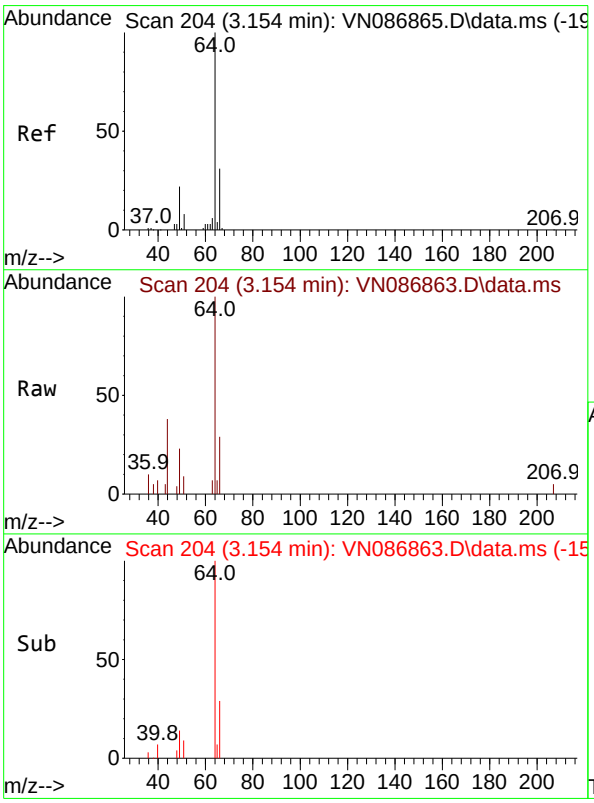
#5
Bromomethane
Concen: 5.041 ug/l
RT: 2.989 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 8606

Ion	Ratio	Lower	Upper
94	100		
96	100.6	77.9	116.9

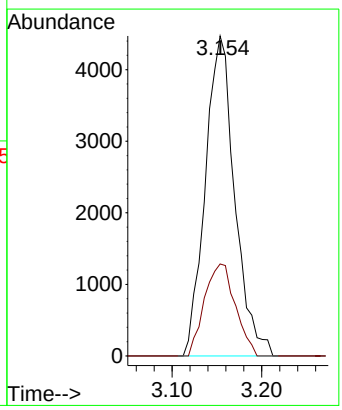


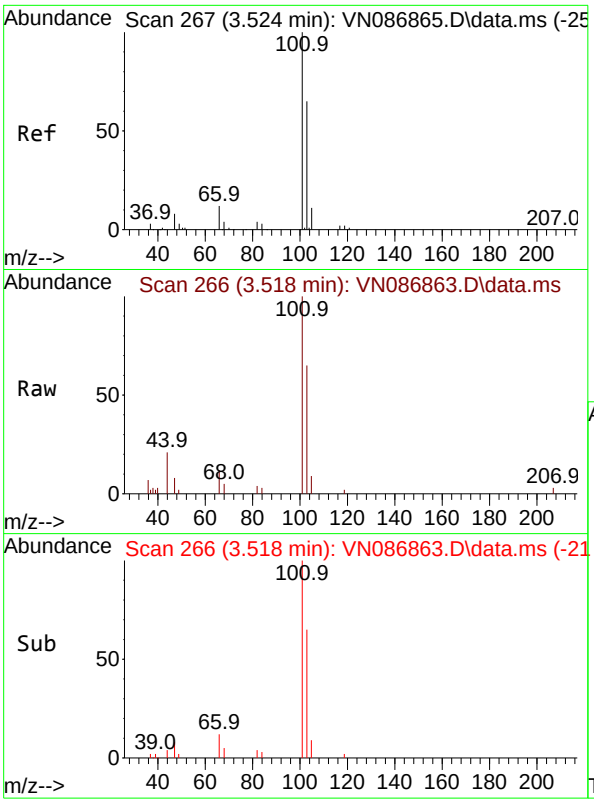


#6
Chloroethane
Concen: 5.171 ug/l
RT: 3.154 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 64 Resp: 10190

Ion	Ratio	Lower	Upper
64	100		
66	28.8	24.6	36.8



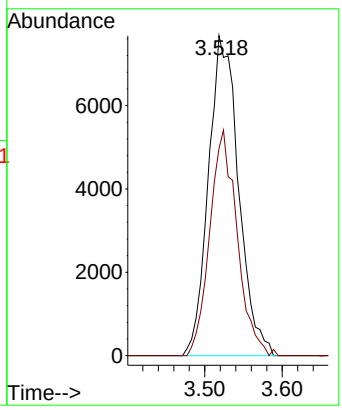


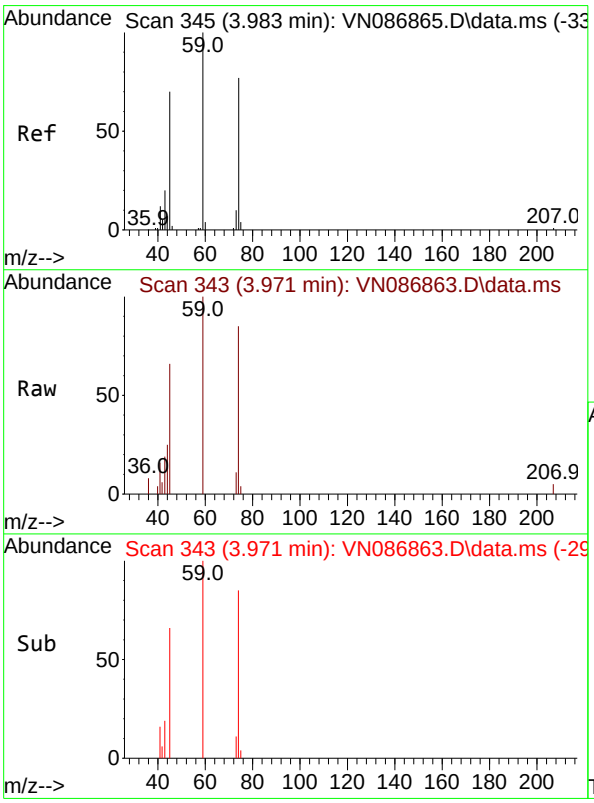
#7
Trichlorofluoromethane
Concen: 5.203 ug/l
RT: 3.518 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 20740

Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.2	78.2

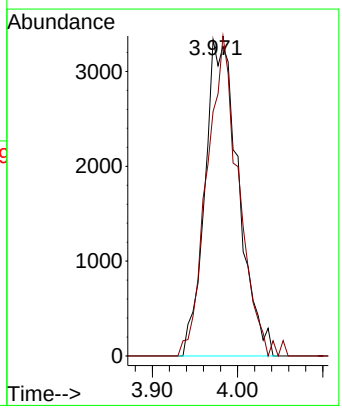


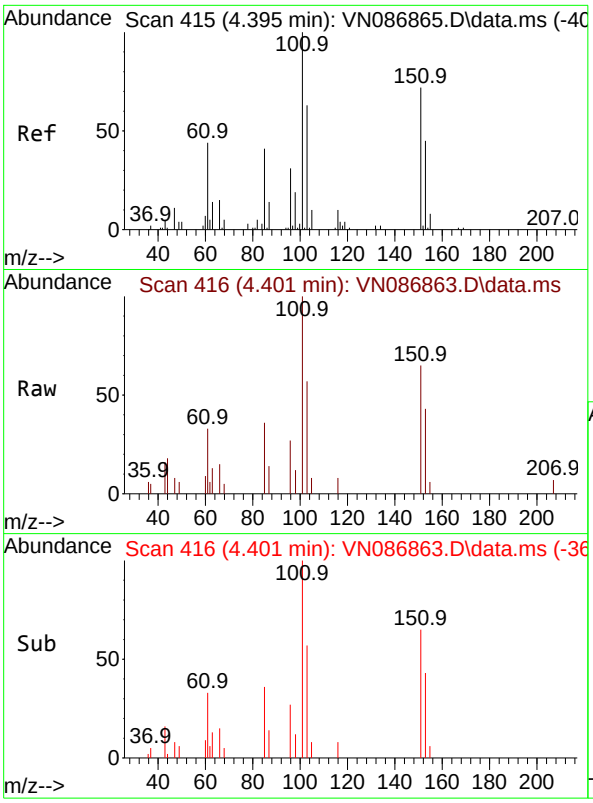


#8
Diethyl Ether
Concen: 5.252 ug/l
RT: 3.971 min Scan# 343
Delta R.T. -0.012 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 74 Resp: 9121

Ion	Ratio	Lower	Upper
74	100		
45	95.8	45.5	136.5



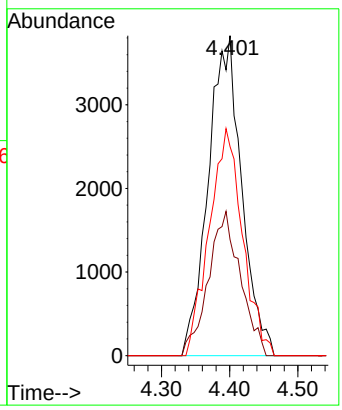


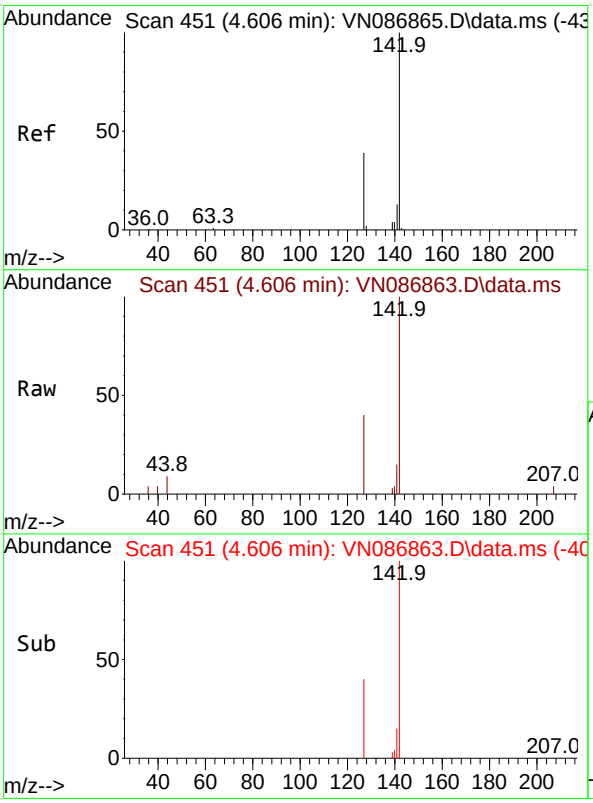
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.205 ug/l
RT: 4.401 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 13034

Ion	Ratio	Lower	Upper
101	100		
85	43.3	33.8	50.8
151	70.8	58.7	88.1

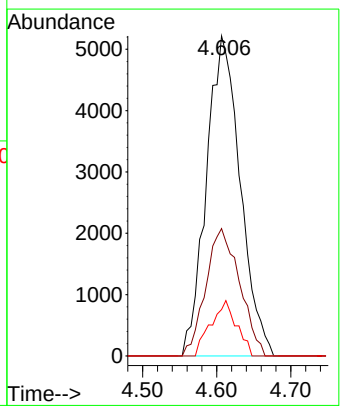


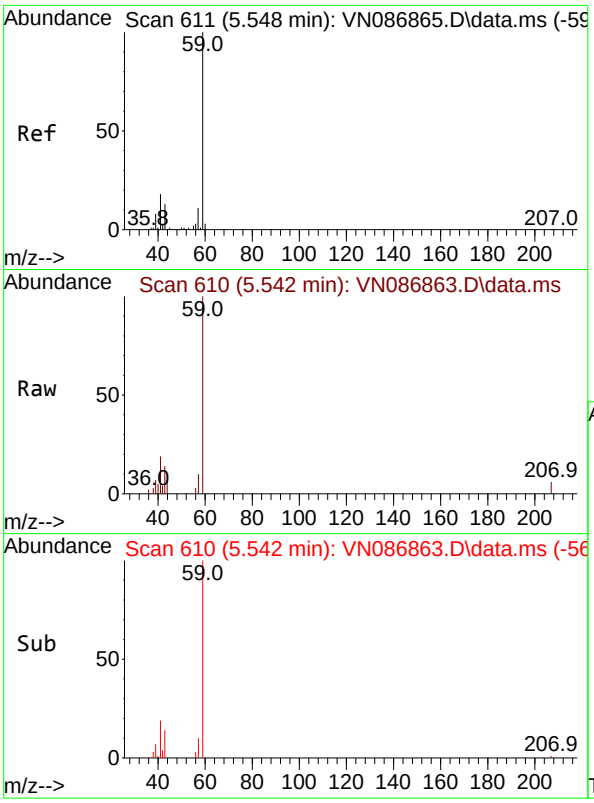


#10
Methyl Iodide
Concen: 5.092 ug/l
RT: 4.606 min Scan# 451
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:142 Resp: 16530

Ion	Ratio	Lower	Upper
142	100		
127	39.8	30.9	46.3
141	14.5	10.4	15.6



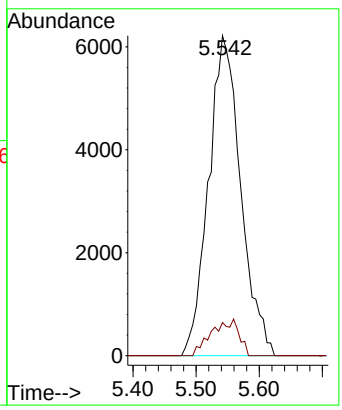


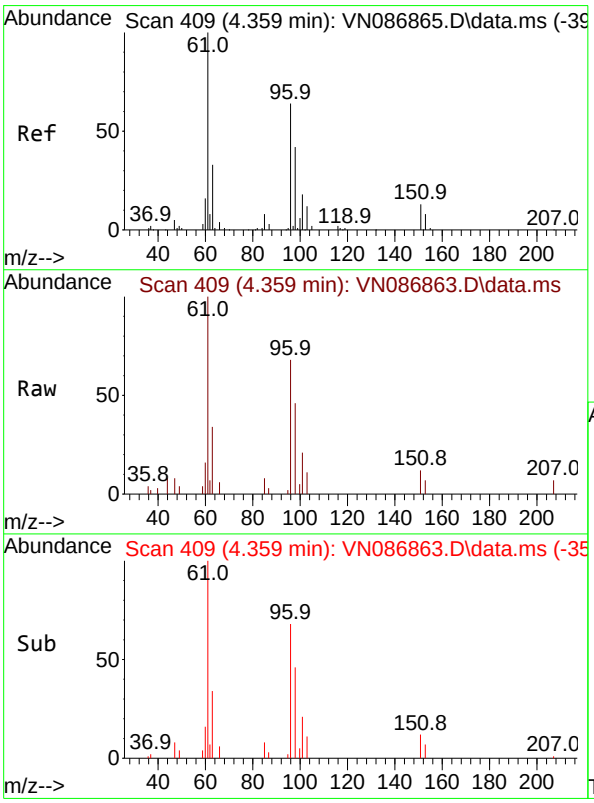
#11
Tert butyl alcohol
Concen: 26.363 ug/l
RT: 5.542 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 59 Resp: 22000

Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.1	12.1

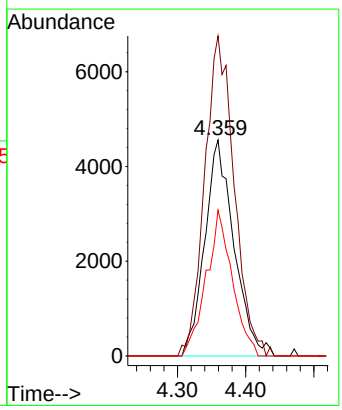


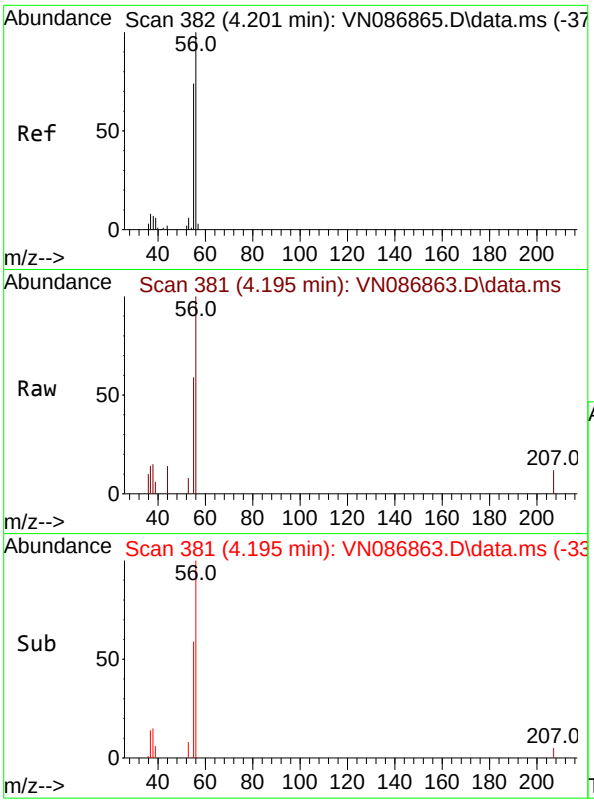


#12
1,1-Dichloroethene
Concen: 5.323 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 96 Resp: 13610

Ion	Ratio	Lower	Upper
96	100		
61	148.1	125.8	188.6
98	67.5	52.5	78.7



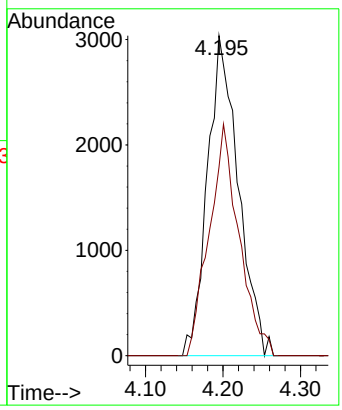


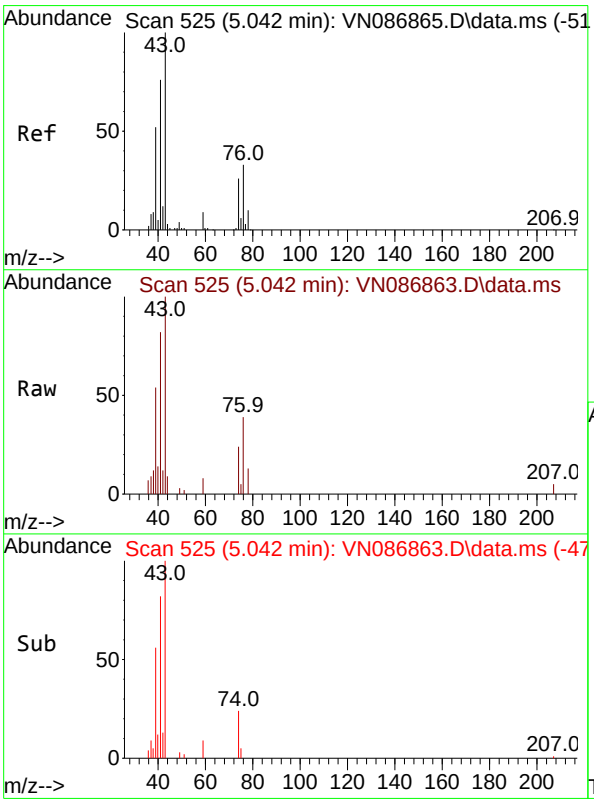
#13
Acrolein
Concen: 31.804 ug/l
RT: 4.195 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 8401

Ion	Ratio	Lower	Upper
56	100		
55	70.2	55.6	83.4

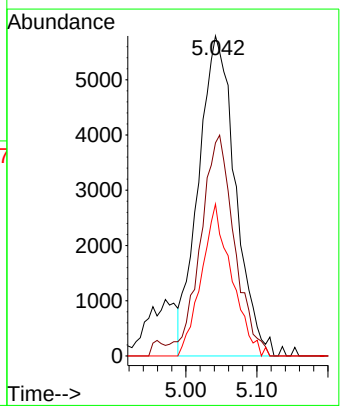


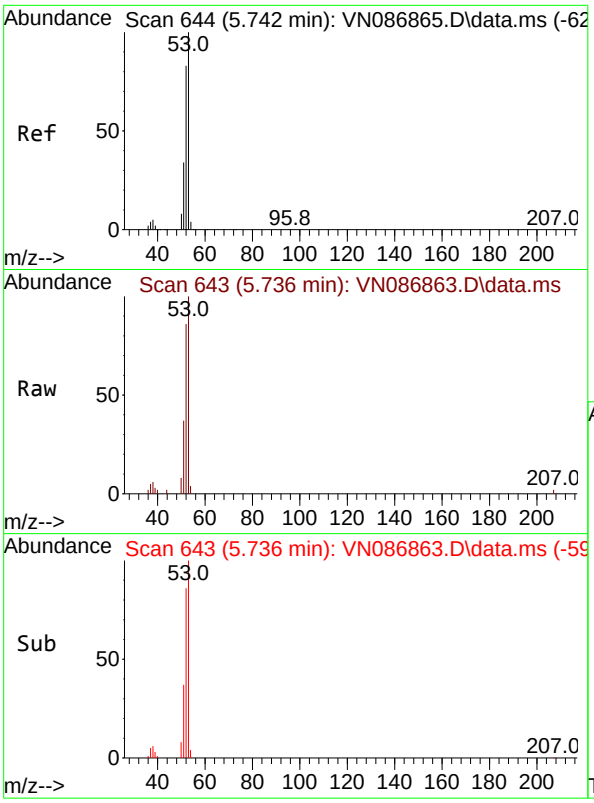


#14
Allyl chloride
Concen: 4.935 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 41 Resp: 20925

Ion	Ratio	Lower	Upper
41	100		
39	63.2	51.3	76.9
76	39.0	31.4	47.0



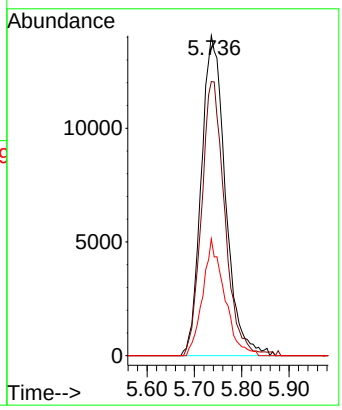


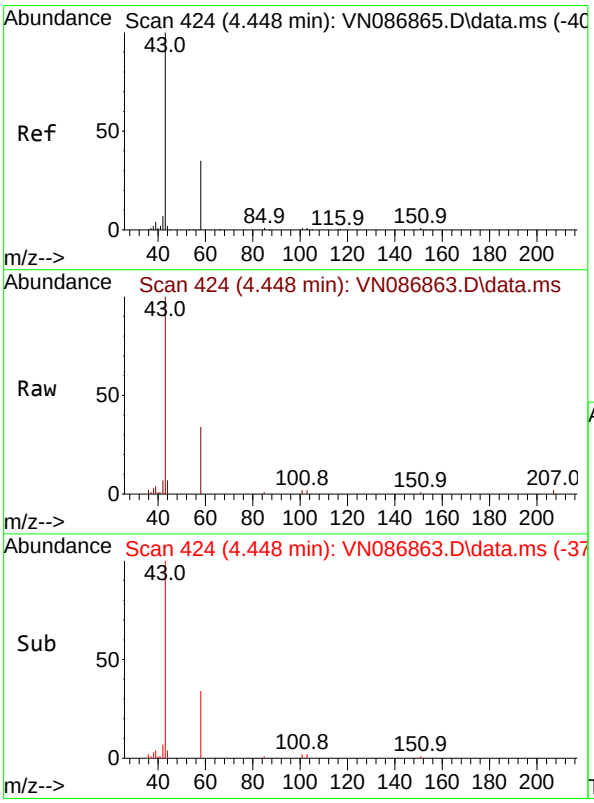
#15
Acrylonitrile
Concen: 25.545 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 49826

Ion	Ratio	Lower	Upper
53	100		
52	82.4	65.0	97.6
51	32.9	27.2	40.8

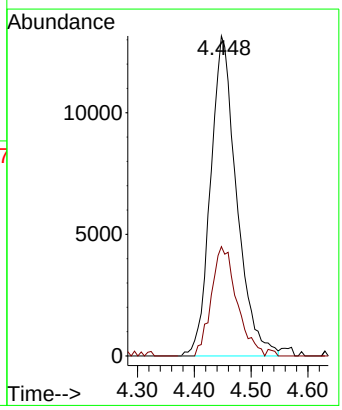


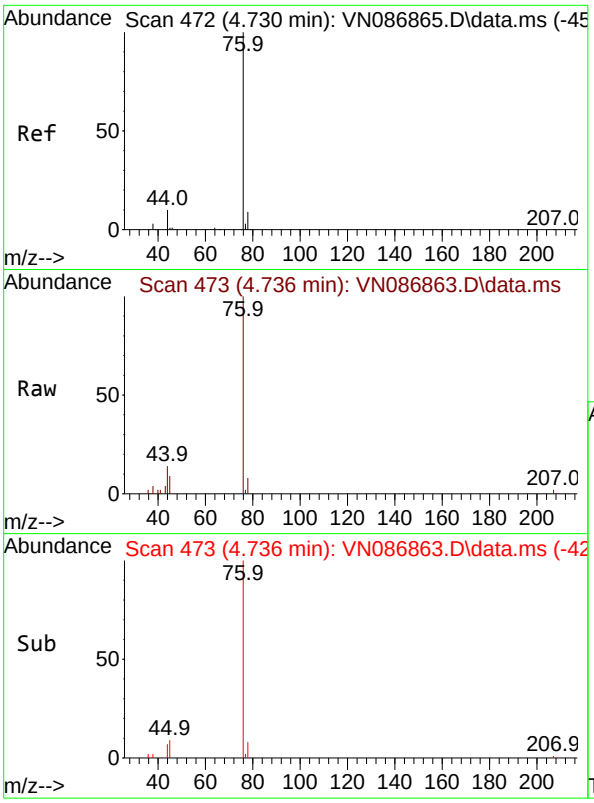


#16
Acetone
Concen: 25.741 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 41981

Ion	Ratio	Lower	Upper
43	100		
58	34.1	28.0	42.0



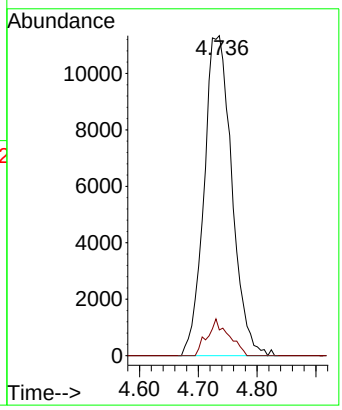


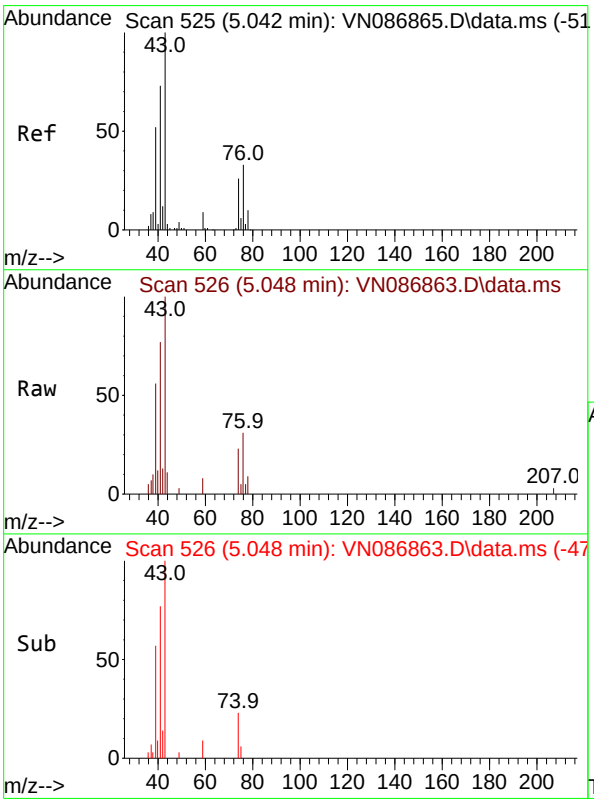
#17
Carbon Disulfide
Concen: 5.267 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 37246

Ion	Ratio	Lower	Upper
76	100		
78	8.0	7.3	10.9

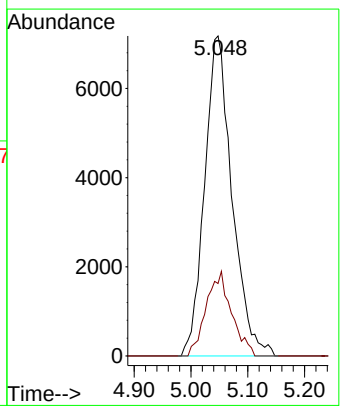


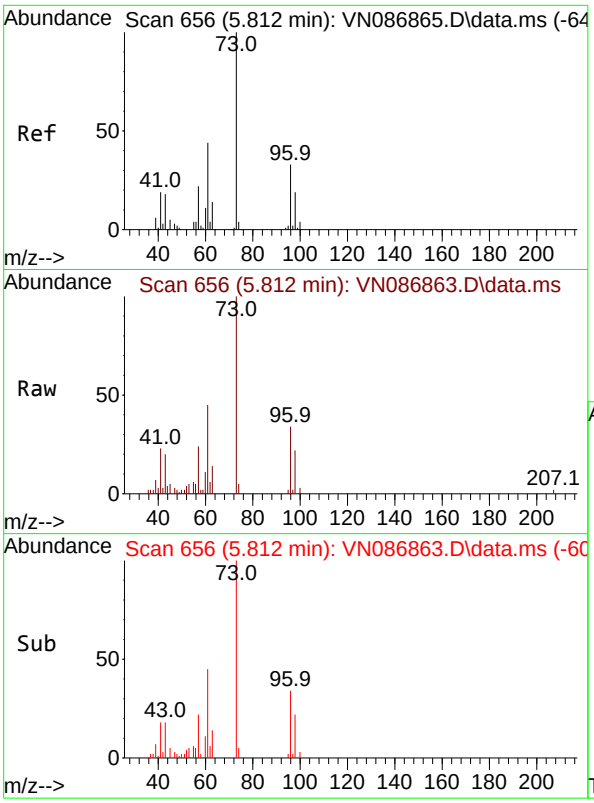


#18
Methyl Acetate
Concen: 5.070 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 24096

Ion	Ratio	Lower	Upper
43	100		
74	24.4	20.7	31.1



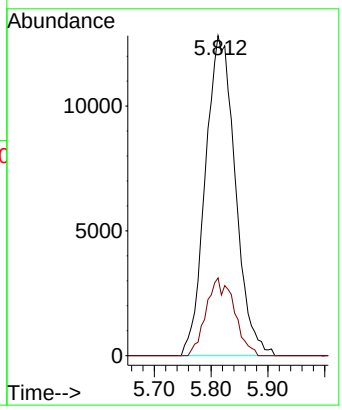


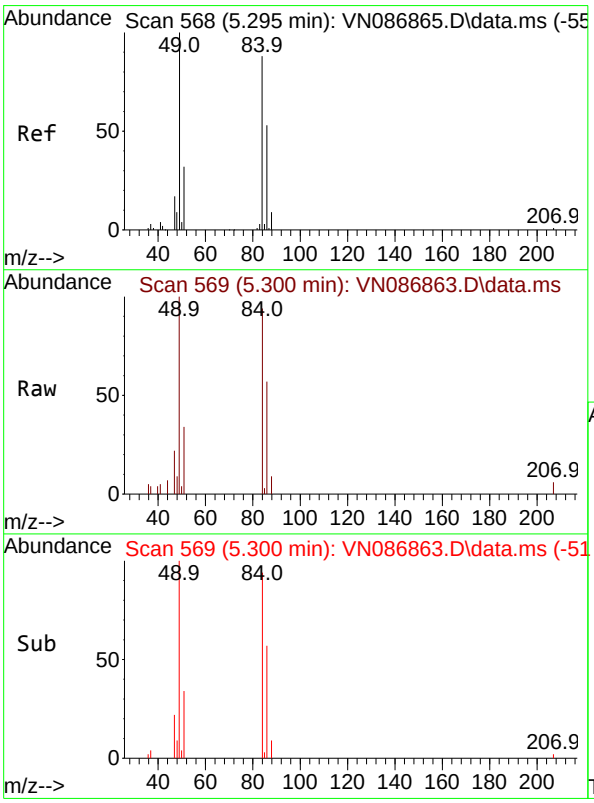
#19
Methyl tert-butyl Ether
Concen: 5.058 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 73 Resp: 46823

Ion	Ratio	Lower	Upper
73	100		
57	24.3	17.4	26.2

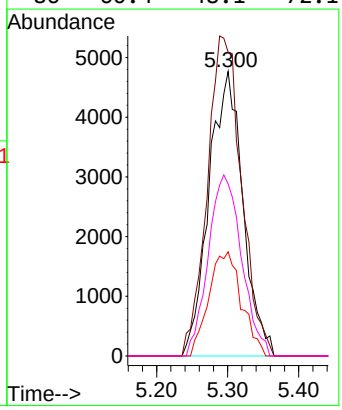


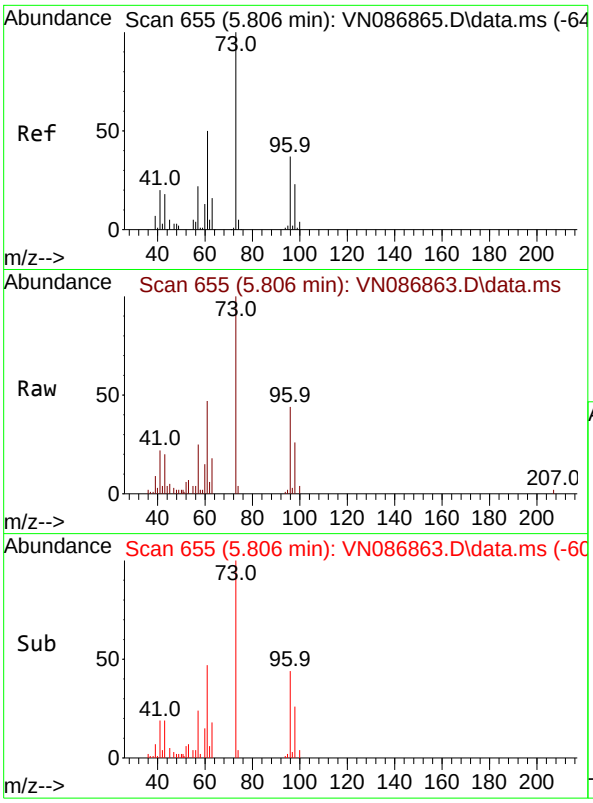


#20
Methylene Chloride
Concen: 5.178 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 84 Resp: 15809

Ion	Ratio	Lower	Upper
84	100		
49	106.8	90.5	135.7
51	36.6	28.5	42.7
86	60.4	48.1	72.1



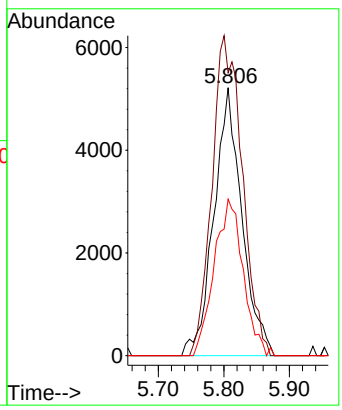


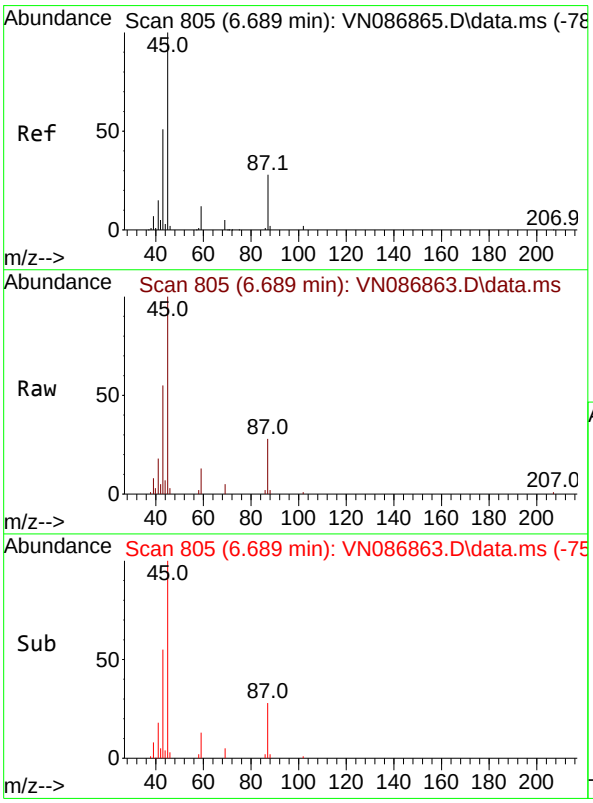
#21
trans-1,2-Dichloroethene
Concen: 5.442 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 15480

Ion	Ratio	Lower	Upper
96	100		
61	105.6	109.2	163.8#
98	58.4	49.8	74.8

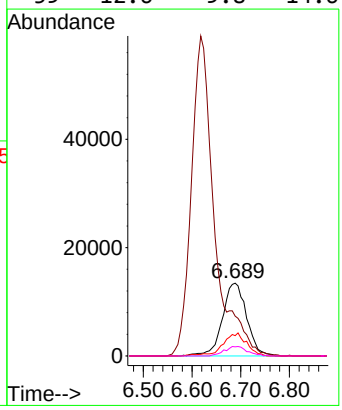


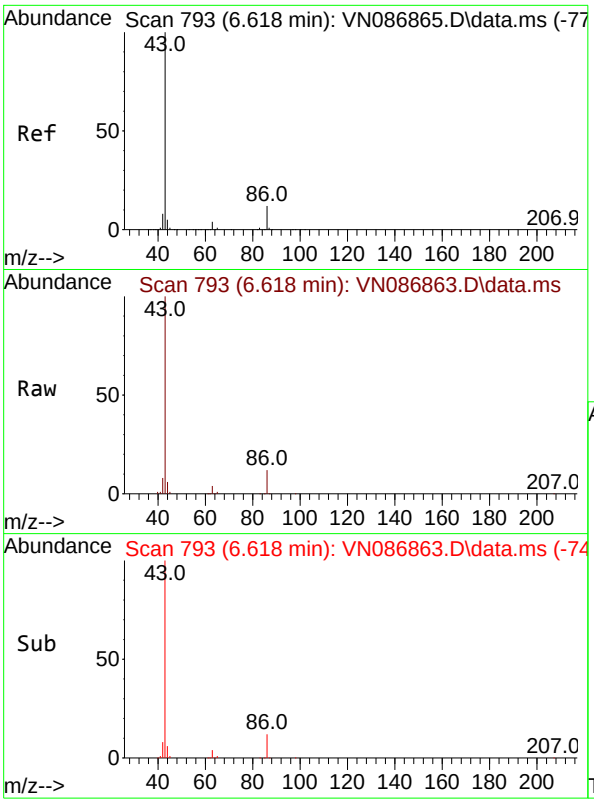


#22
Diisopropyl ether
Concen: 5.191 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 45 Resp: 46396

Ion	Ratio	Lower	Upper
45	100		
43	53.2	41.9	62.9
87	27.9	22.4	33.6
59	12.6	9.8	14.6



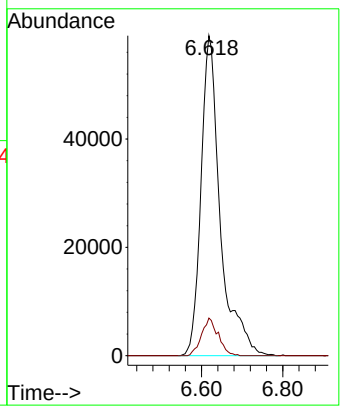


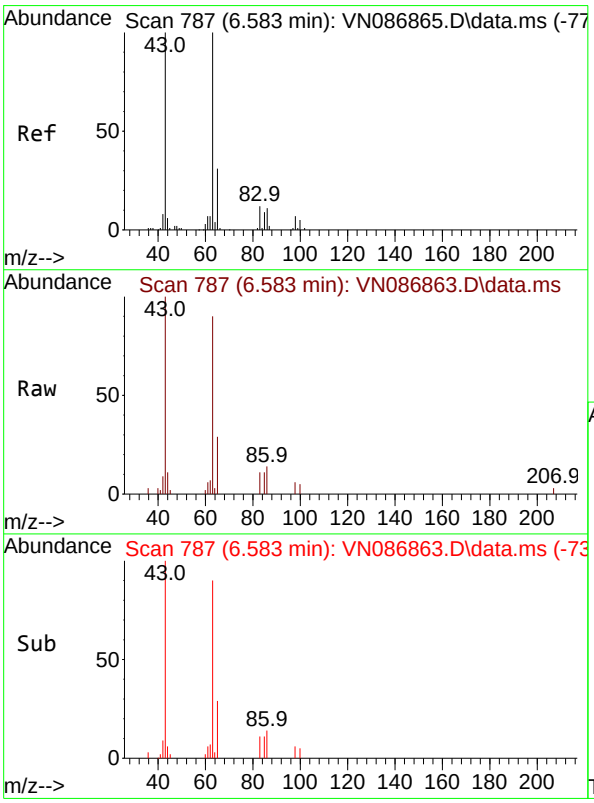
#23
Vinyl Acetate
Concen: 25.735 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 194334

Ion	Ratio	Lower	Upper
43	100		
86	11.8	9.5	14.3

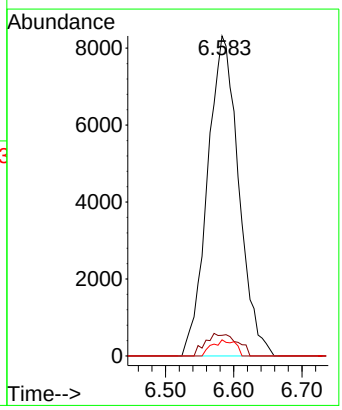


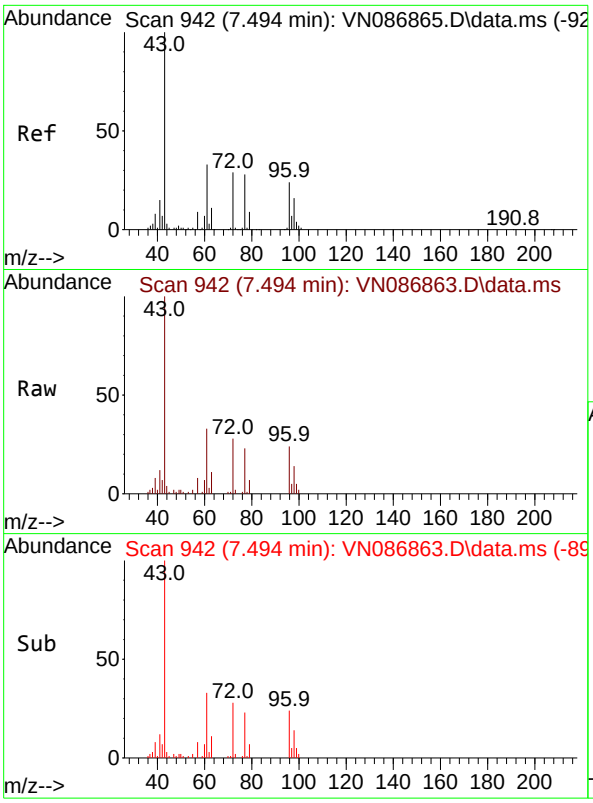


#24
1,1-Dichloroethane
Concen: 5.147 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 63 Resp: 26473

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.6	10.8
100	5.1	2.6	7.8



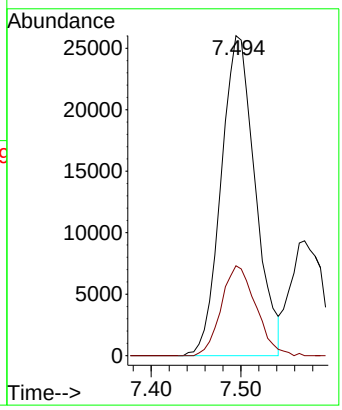


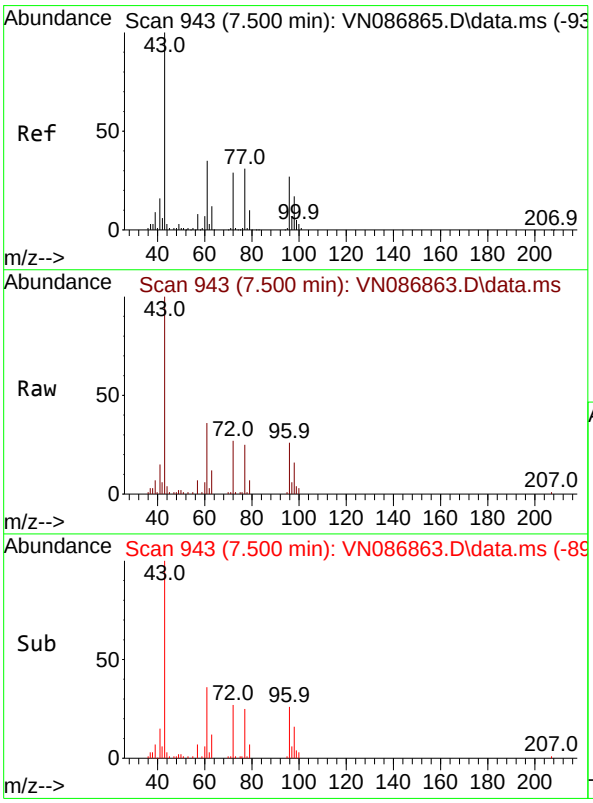
#25
2-Butanone
Concen: 25.888 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 68629

Ion	Ratio	Lower	Upper
43	100		
72	28.1	23.0	34.6

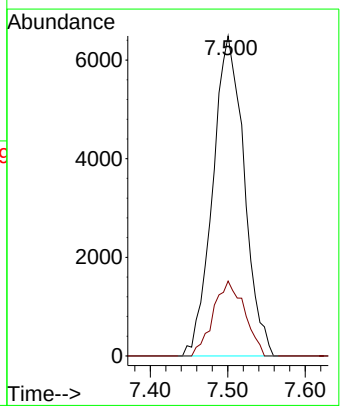


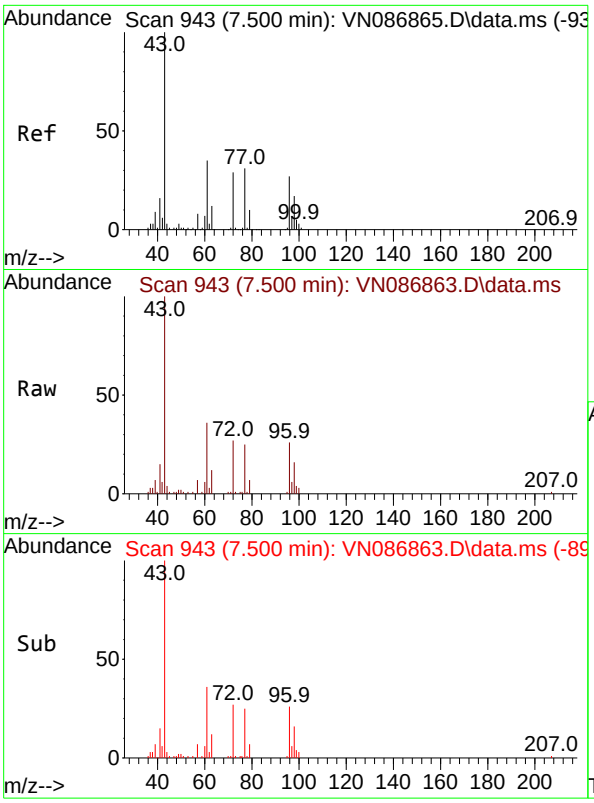


#26
2,2-Dichloropropane
Concen: 4.571 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 77 Resp: 18288

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.6	34.7



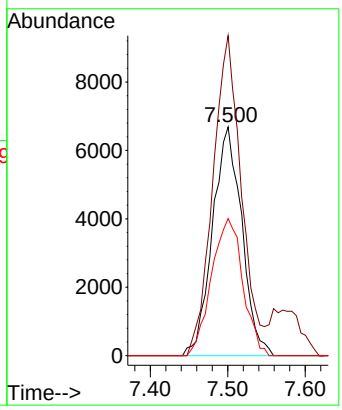


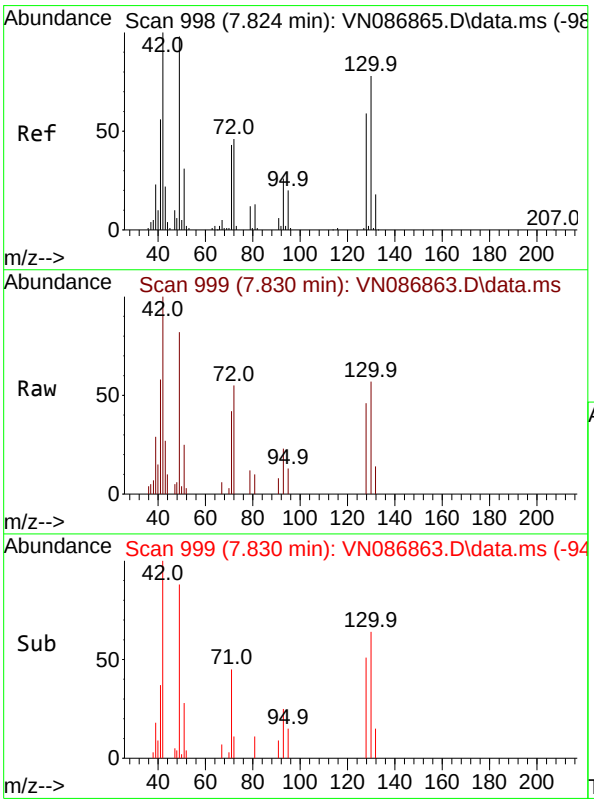
#27
cis-1,2-Dichloroethene
Concen: 5.172 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 17594

Ion	Ratio	Lower	Upper
96	100		
61	136.0	0.0	278.0
98	64.0	0.0	128.2

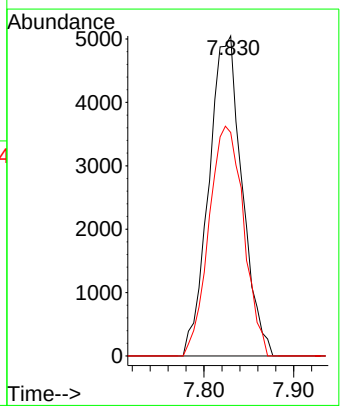


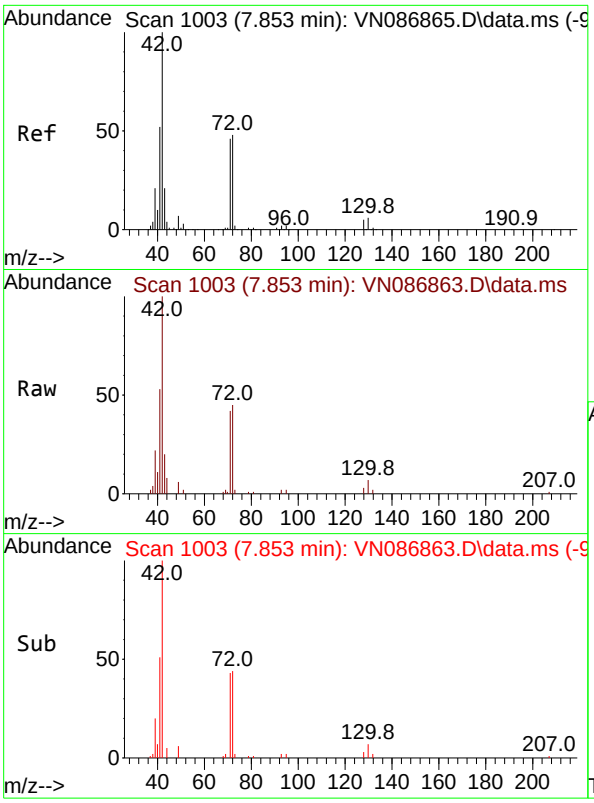


#28
Bromochloromethane
Concen: 5.124 ug/l
RT: 7.830 min Scan# 999
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 49 Resp: 12958

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	75.2	62.2	93.2



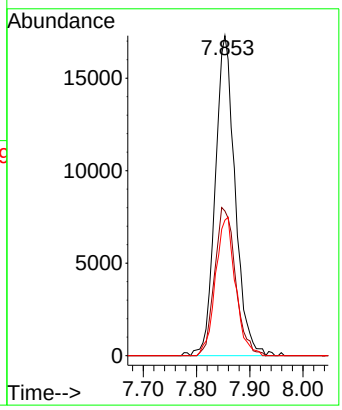


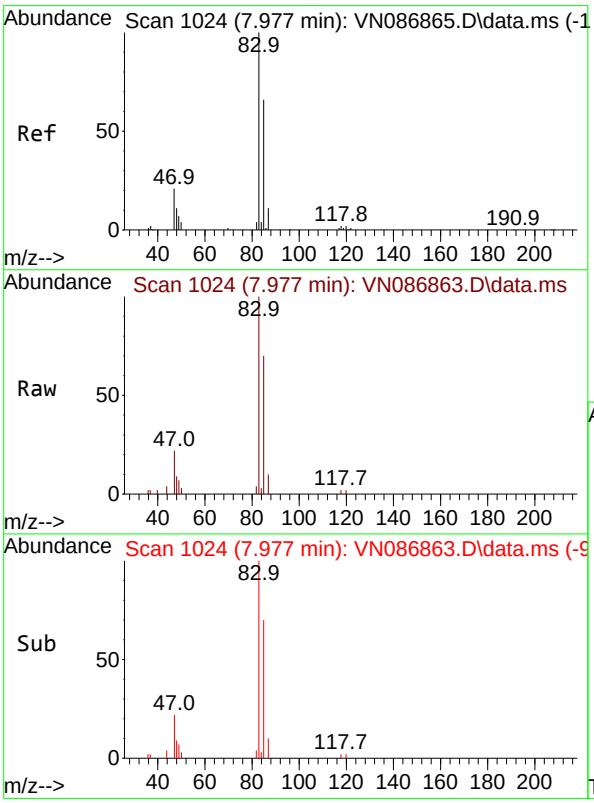
#29
Tetrahydrofuran
Concen: 25.912 ug/l
RT: 7.853 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 42 Resp: 44749

Ion	Ratio	Lower	Upper
42	100		
72	48.6	37.8	56.6
71	43.5	35.6	53.4

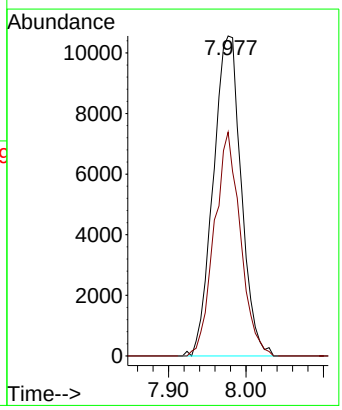


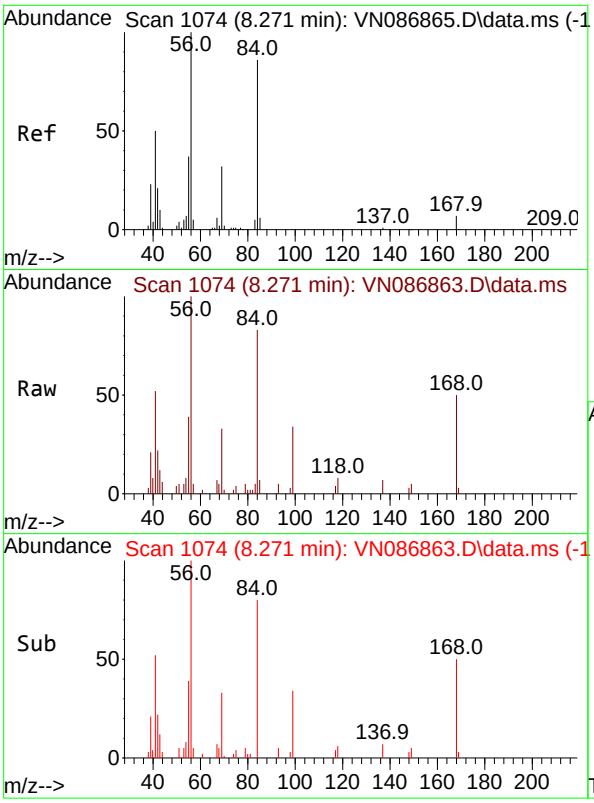


#30
Chloroform
Concen: 5.149 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 83 Resp: 26450

Ion	Ratio	Lower	Upper
83	100		
85	69.9	52.9	79.3



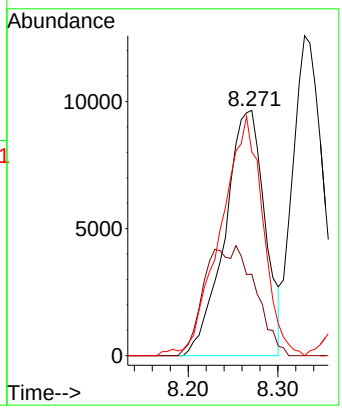


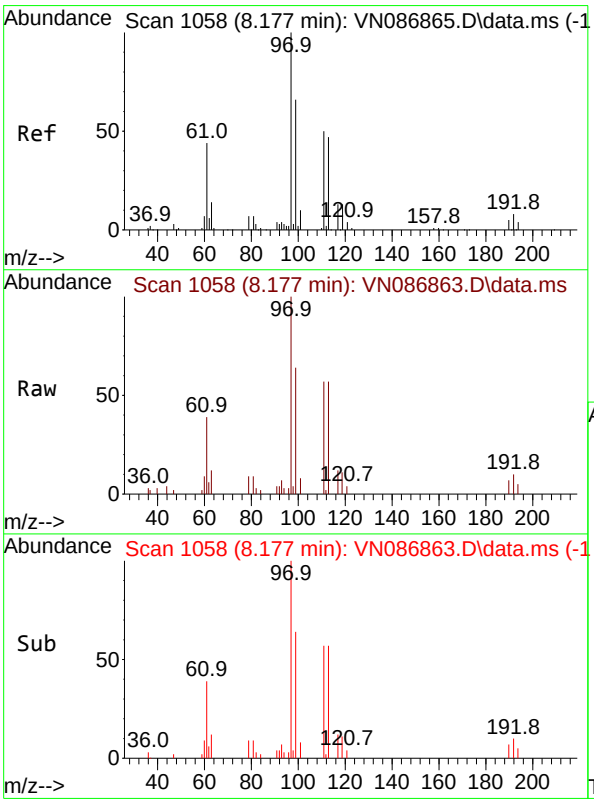
#31
Cyclohexane
Concen: 6.002 ug/l
RT: 8.271 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 56 Resp: 29938

Ion	Ratio	Lower	Upper
56	100		
69	33.2	25.4	38.0
84	81.1	68.8	103.2

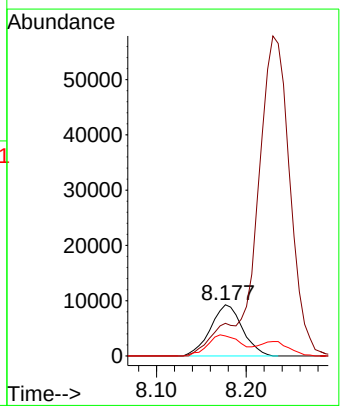


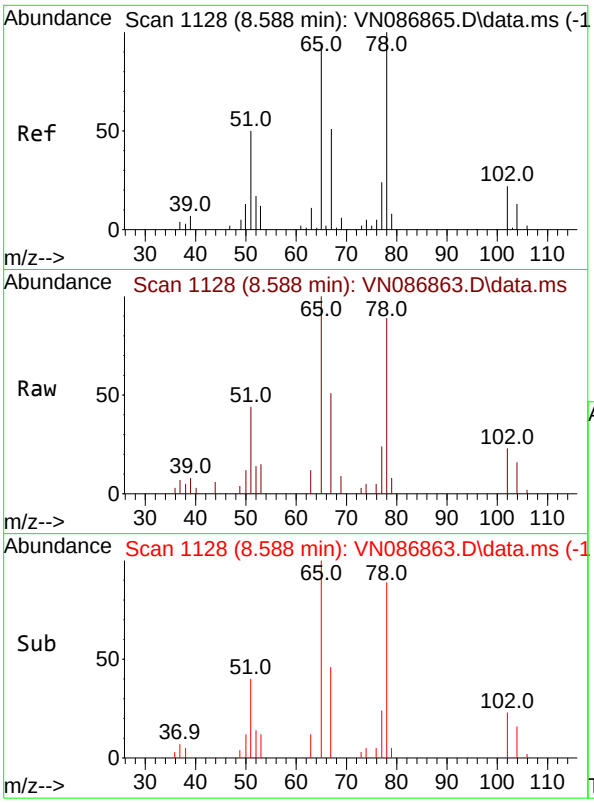


#32
1,1,1-Trichloroethane
Concen: 5.232 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 97 Resp: 22857

Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.0	78.0#
61	42.9	35.9	53.9



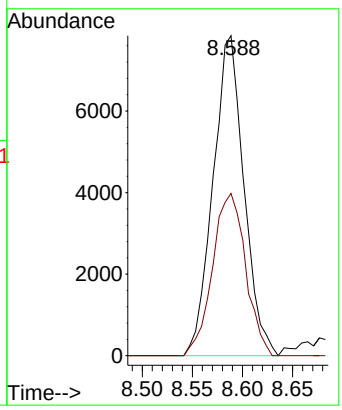


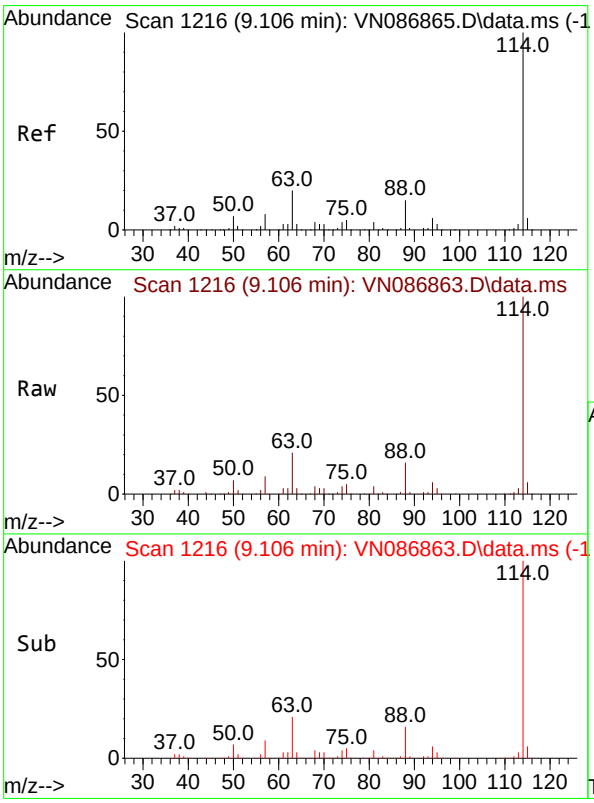
#33
1,2-Dichloroethane-d4
Concen: 5.468 ug/l
RT: 8.588 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 65 Resp: 16818

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.6

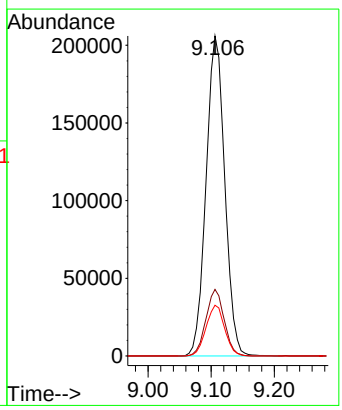


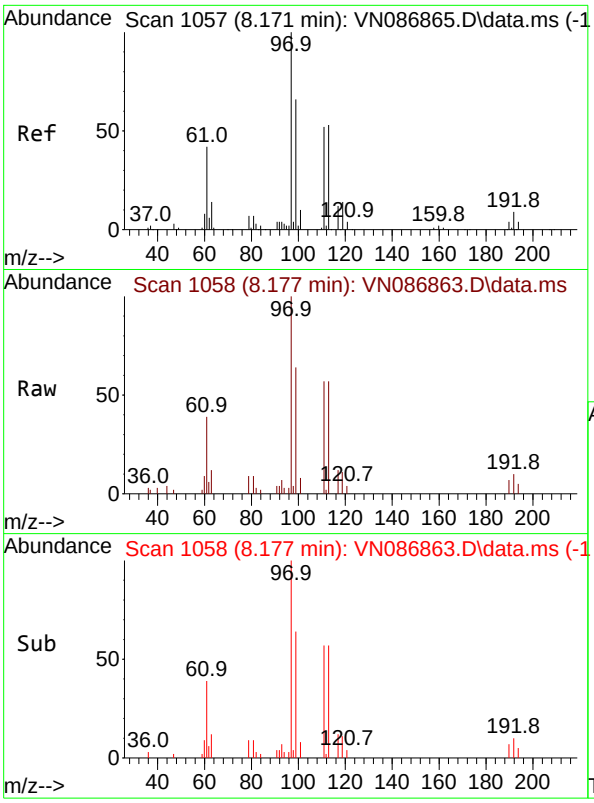


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:114 Resp: 423980

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	39.6
88	15.9	0.0	30.2



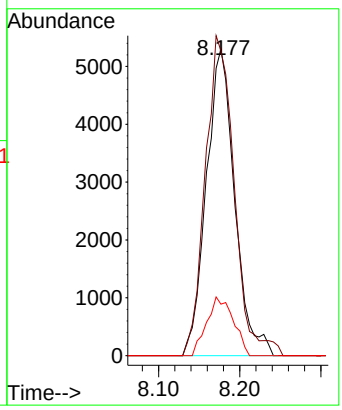


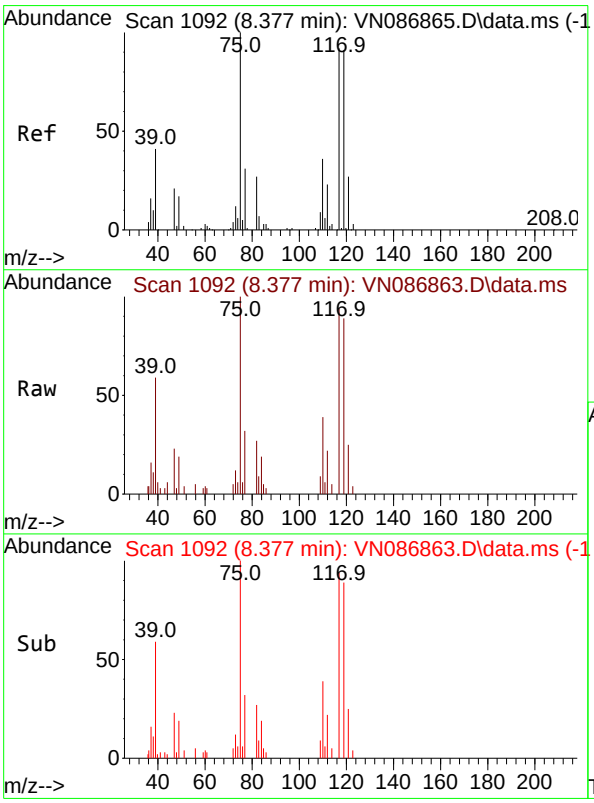
#35
Dibromofluoromethane
Concen: 5.121 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:113 Resp: 12867

Ion	Ratio	Lower	Upper
113	100		
111	106.5	84.2	126.2
192	18.0	14.2	21.4

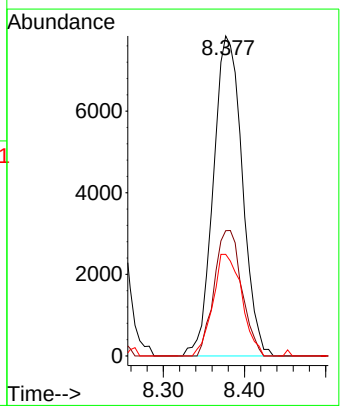


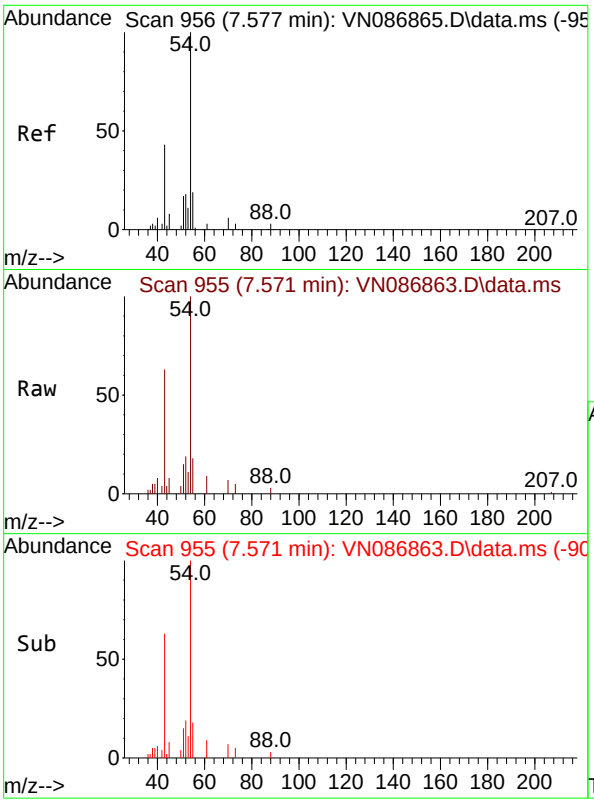


#36
1,1-Dichloropropene
Concen: 5.184 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 75 Resp: 19410

Ion	Ratio	Lower	Upper
75	100		
110	37.4	17.6	52.9
77	31.7	25.3	37.9



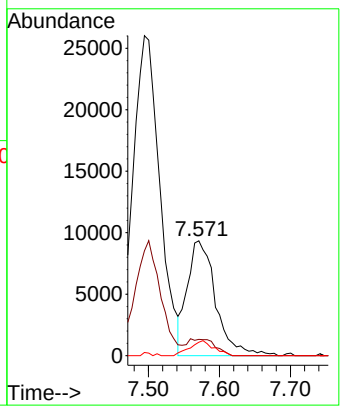


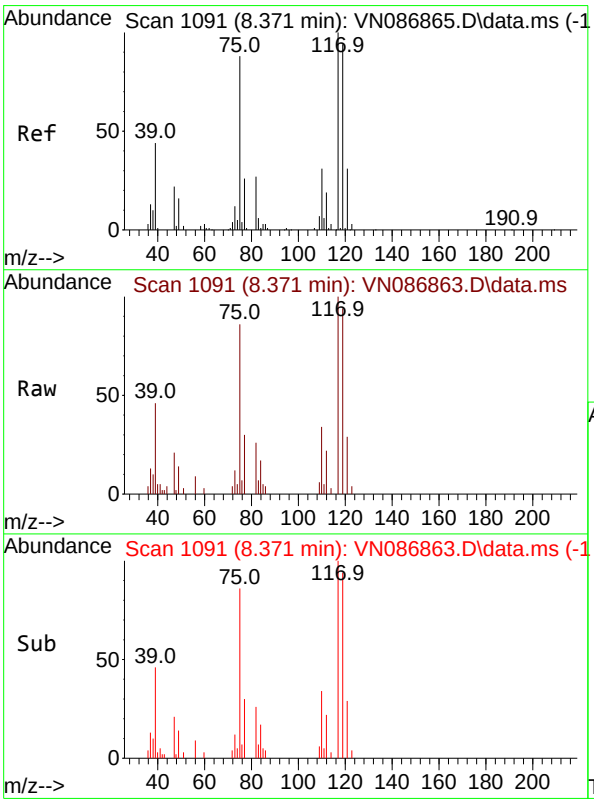
#37
Ethyl Acetate
Concen: 5.470 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 26073

Ion	Ratio	Lower	Upper
43	100		
61	14.1	12.1	18.1
70	10.9	9.8	14.6

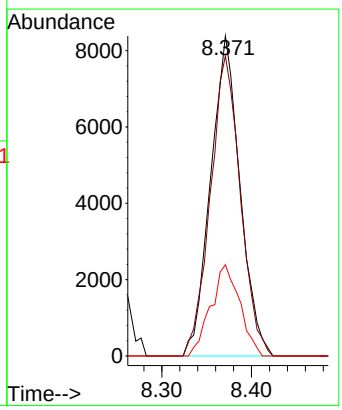


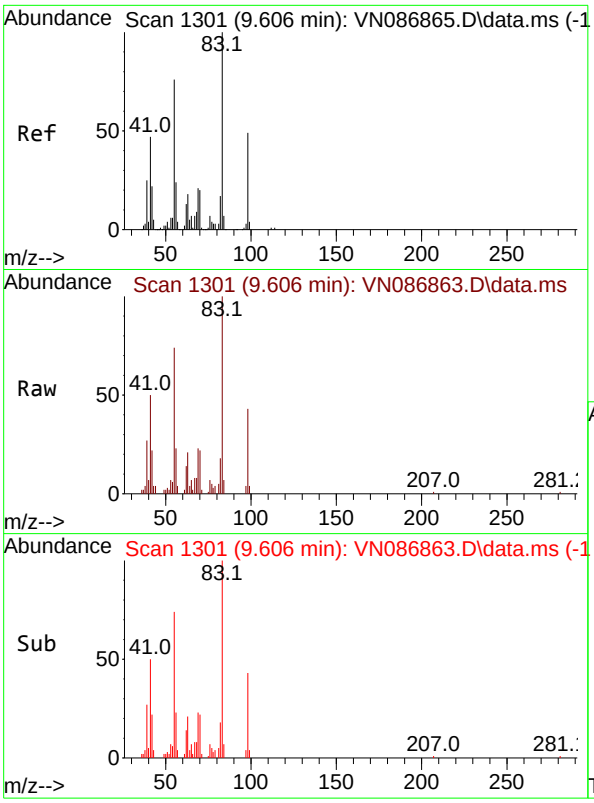


#38
Carbon Tetrachloride
Concen: 5.184 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:117 Resp: 19056

Ion	Ratio	Lower	Upper
117	100		
119	93.8	75.0	112.6
121	28.5	24.9	37.3



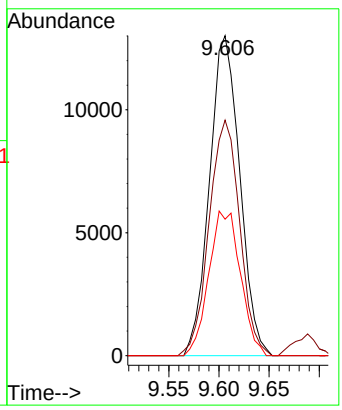


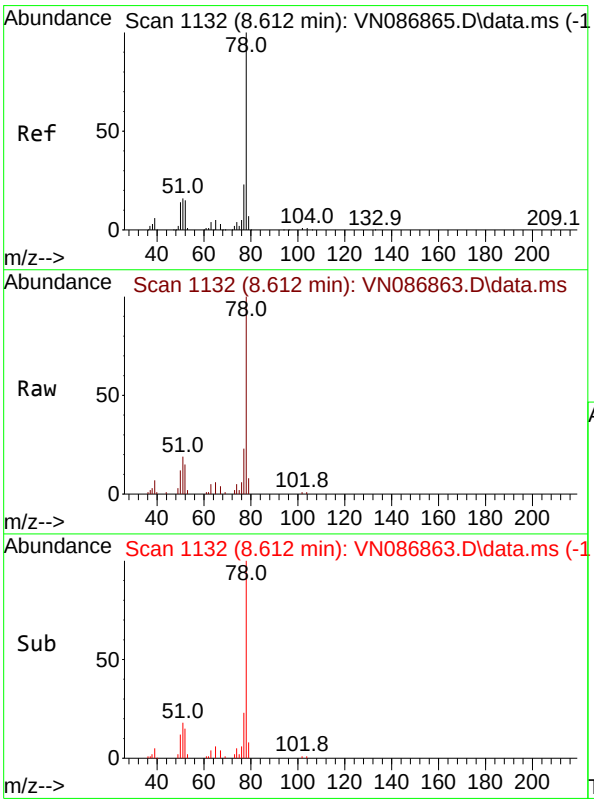
#39
Methylcyclohexane
Concen: 5.333 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 27353

Ion	Ratio	Lower	Upper
83	100		
55	73.6	61.0	91.6
98	42.6	38.9	58.3

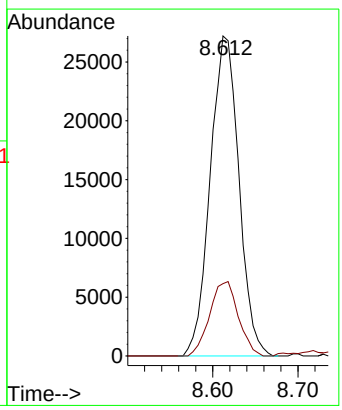


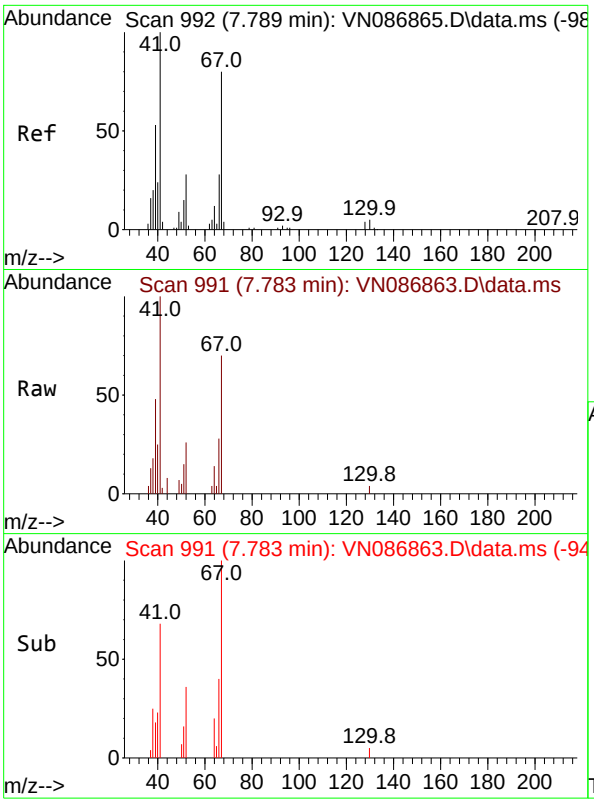


#40
Benzene
Concen: 5.199 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 78 Resp: 63646

Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.7	28.1



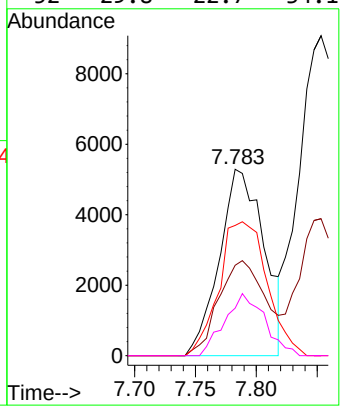


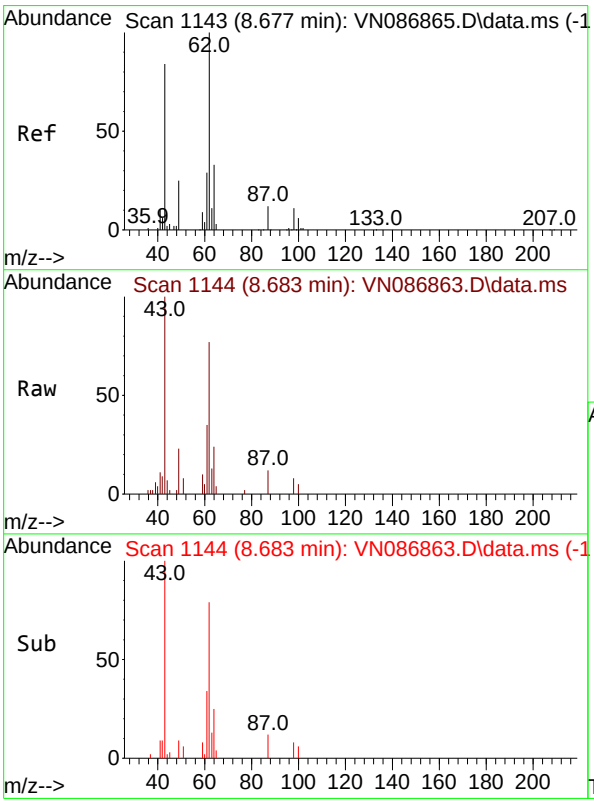
#41
Methacrylonitrile
Concen: 5.050 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 41 Resp: 13518

Ion	Ratio	Lower	Upper
41	100		
39	53.1	41.2	61.8
67	77.0	61.4	92.2
52	29.8	22.7	34.1

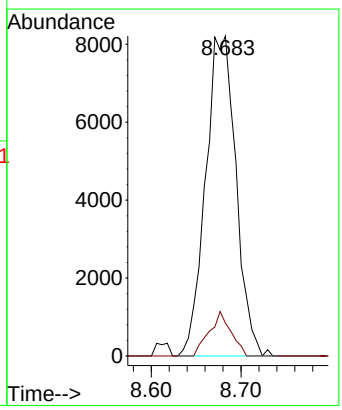


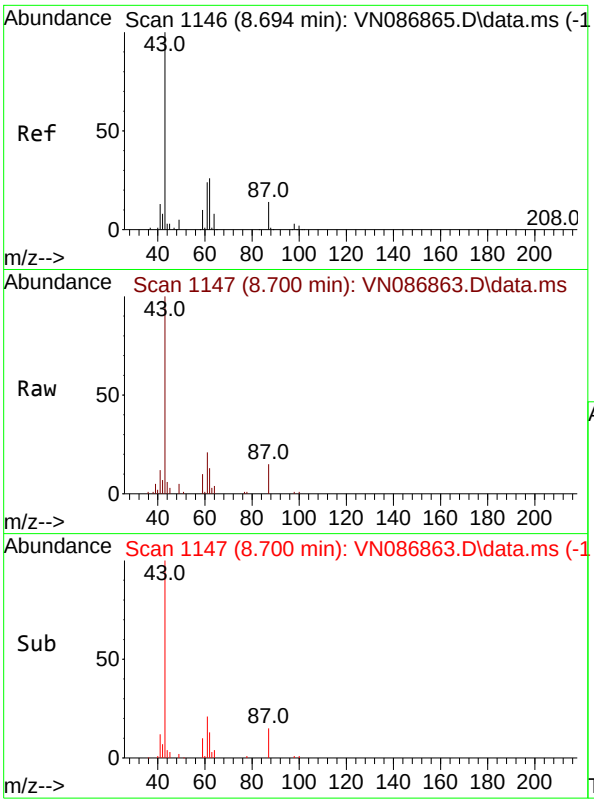


#42
1,2-Dichloroethane
Concen: 5.205 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 62 Resp: 19329

Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	21.2



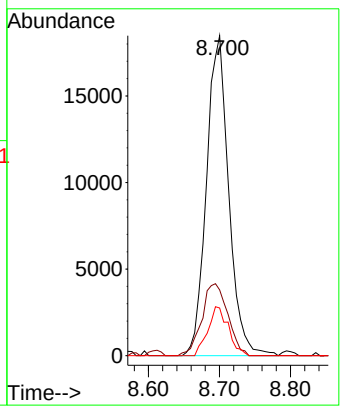


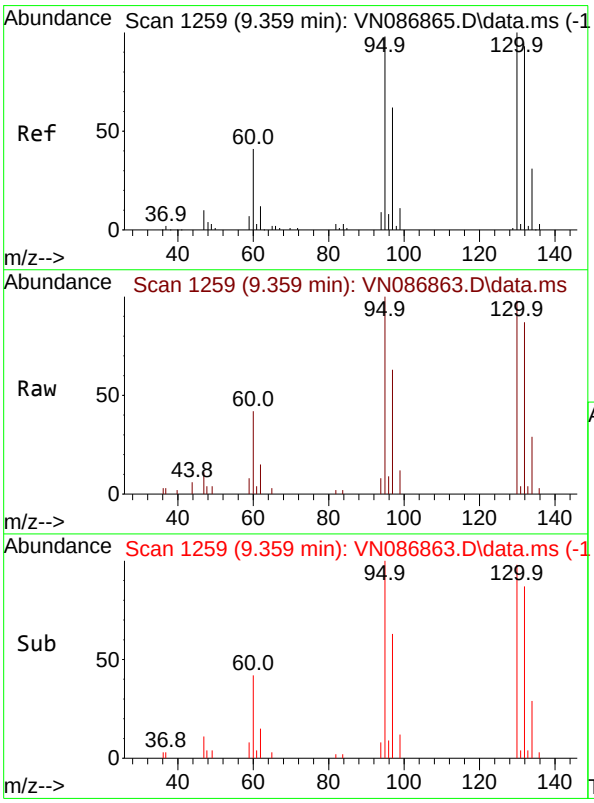
#43
Isopropyl Acetate
Concen: 5.264 ug/l
RT: 8.700 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 40268

Ion	Ratio	Lower	Upper
43	100		
61	26.2	22.1	33.1
87	14.1	11.8	17.6

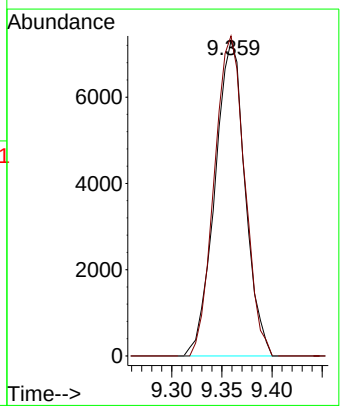


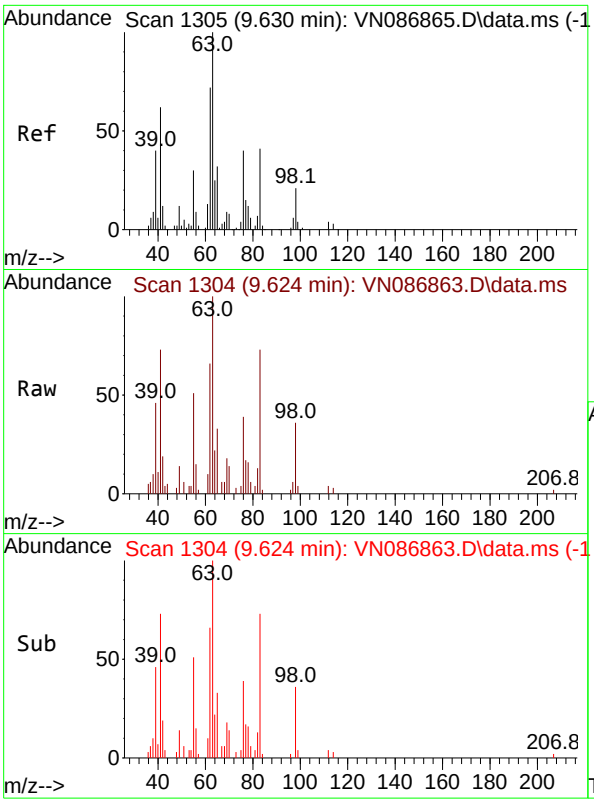


#44
Trichloroethene
Concen: 5.251 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:130 Resp: 15245

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	196.2



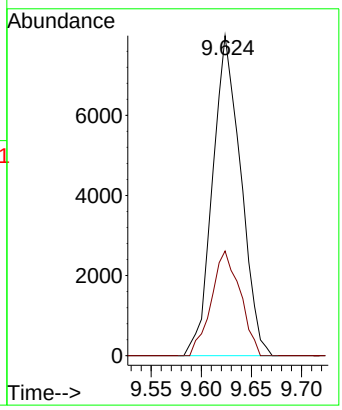


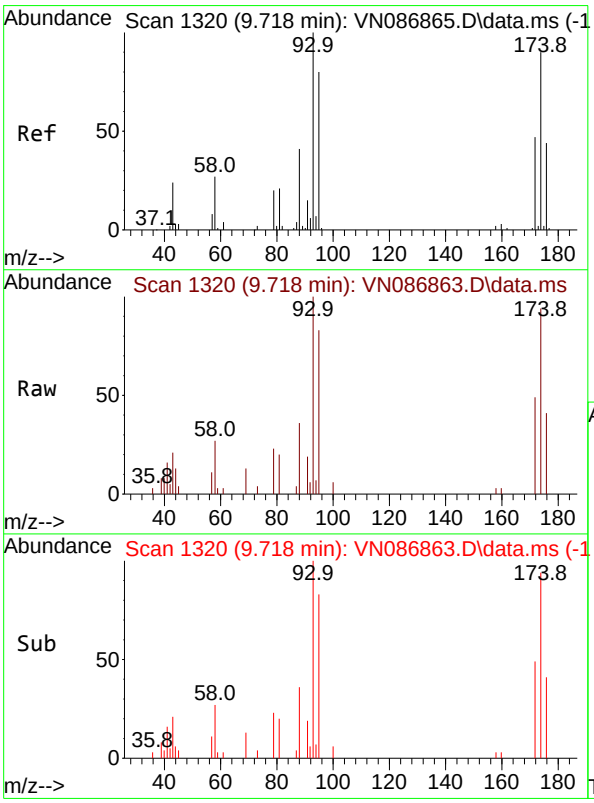
#45
1,2-Dichloropropane
Concen: 5.248 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 63 Resp: 15632

Ion	Ratio	Lower	Upper
63	100		
65	32.7	25.5	38.3

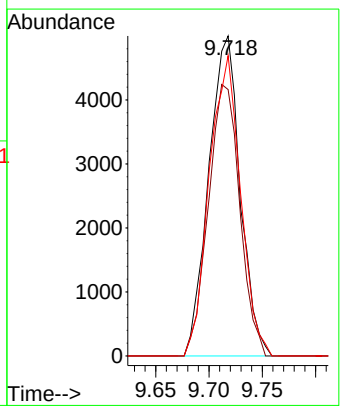


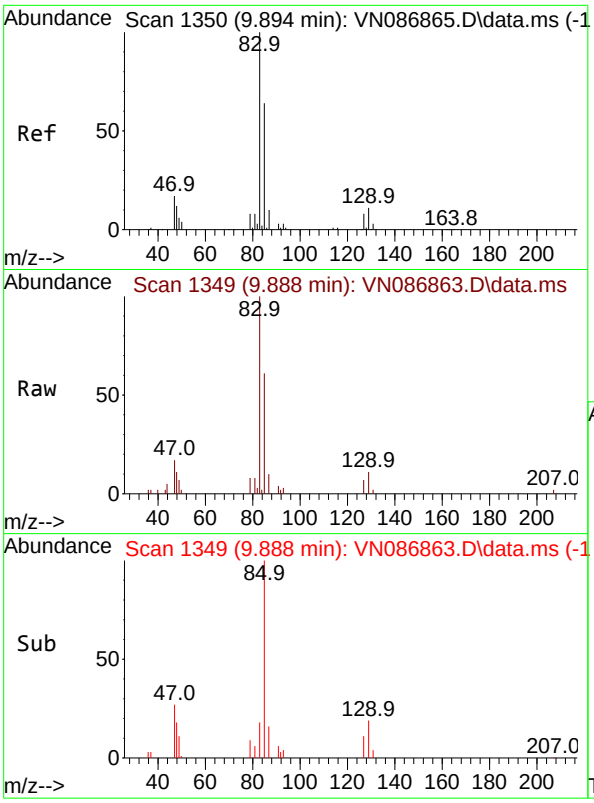


#46
Dibromomethane
Concen: 5.176 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 93 Resp: 10241

Ion	Ratio	Lower	Upper
93	100		
95	84.9	67.1	100.7
174	93.4	74.2	111.4



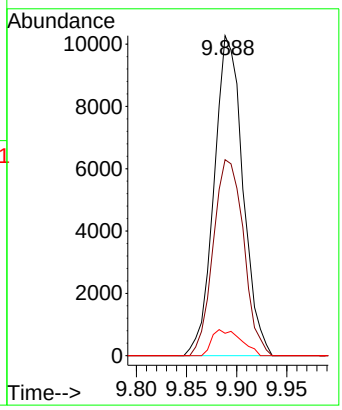


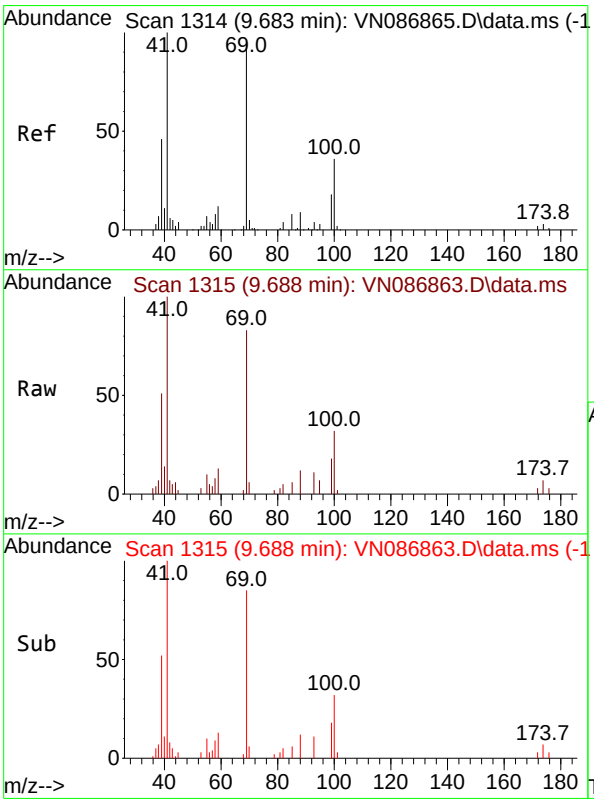
#47
Bromodichloromethane
Concen: 5.039 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 20512

Ion	Ratio	Lower	Upper
83	100		
85	61.3	50.9	76.3
127	7.0	6.6	10.0

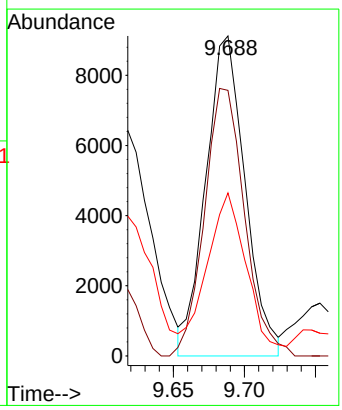


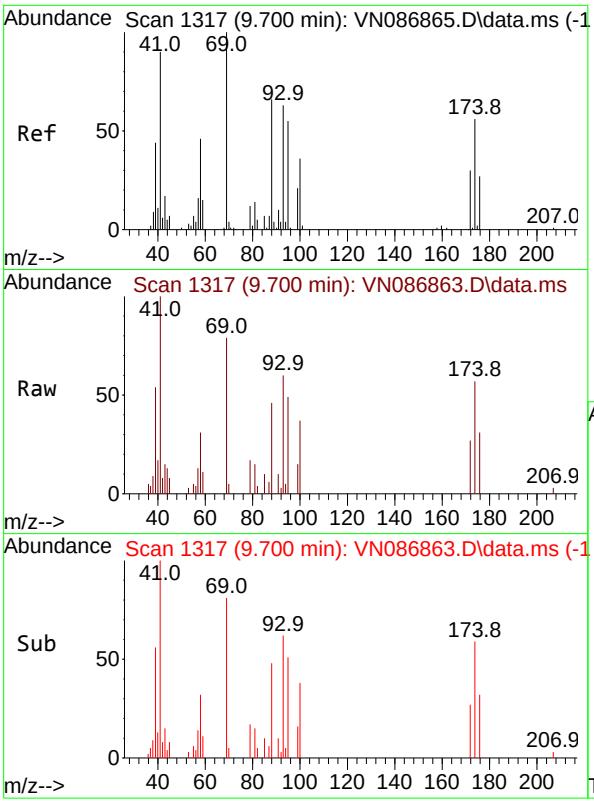


#48
Methyl methacrylate
Concen: 4.996 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 41 Resp: 17591

Ion	Ratio	Lower	Upper
41	100		
69	85.2	74.6	112.0
39	52.3	40.2	60.4



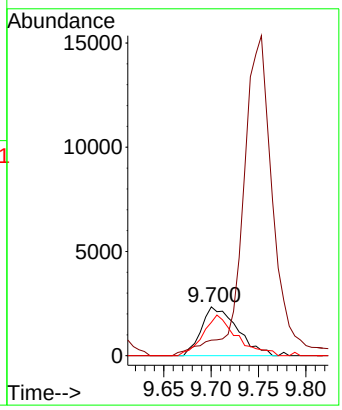


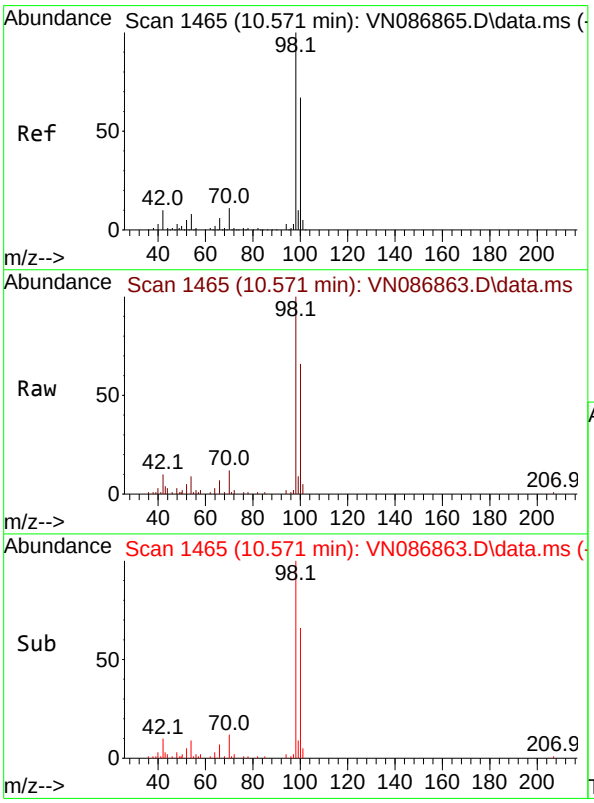
#49
1,4-Dioxane
Concen: 95.874 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 88 Resp: 6141

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	77.9	57.7	86.5

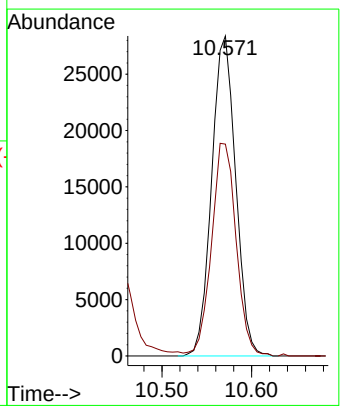


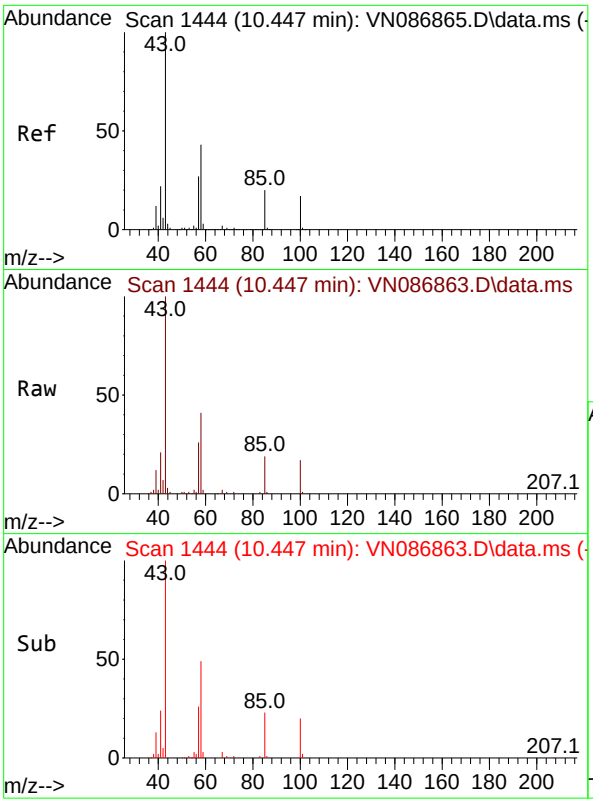


#50
Toluene-d8
Concen: 5.308 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 98 Resp: 52794

Ion	Ratio	Lower	Upper
98	100		
100	68.1	53.4	80.0



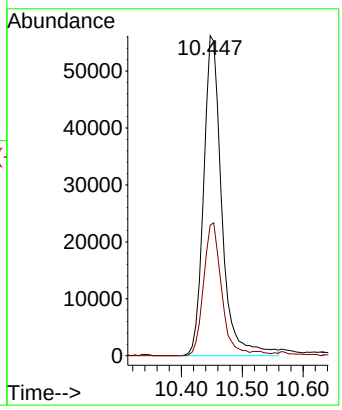


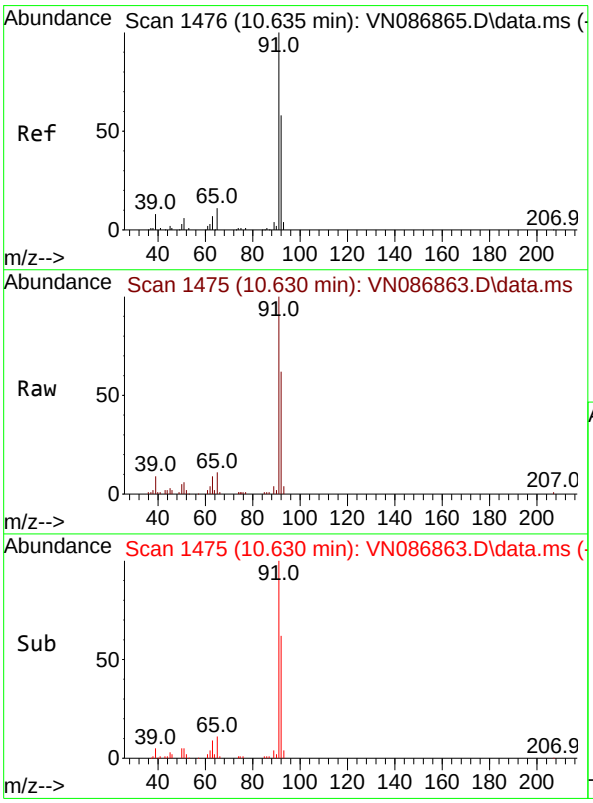
#51
4-Methyl-2-Pentanone
Concen: 25.283 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 116434

Ion	Ratio	Lower	Upper
43	100		
58	40.9	34.2	51.4

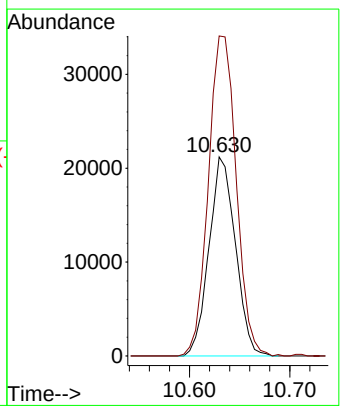


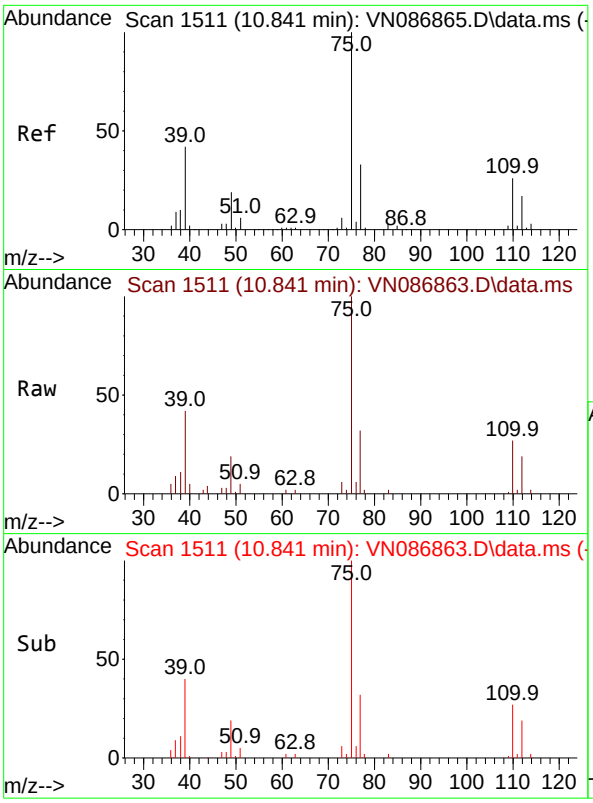


#52
Toluene
Concen: 5.178 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 92 Resp: 38744

Ion	Ratio	Lower	Upper
92	100		
91	169.5	136.5	204.7



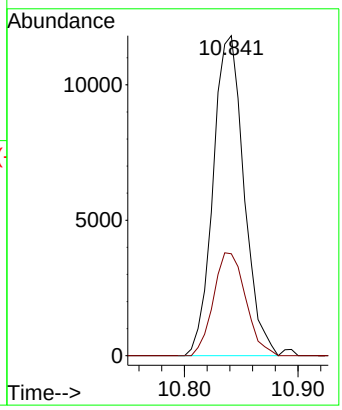


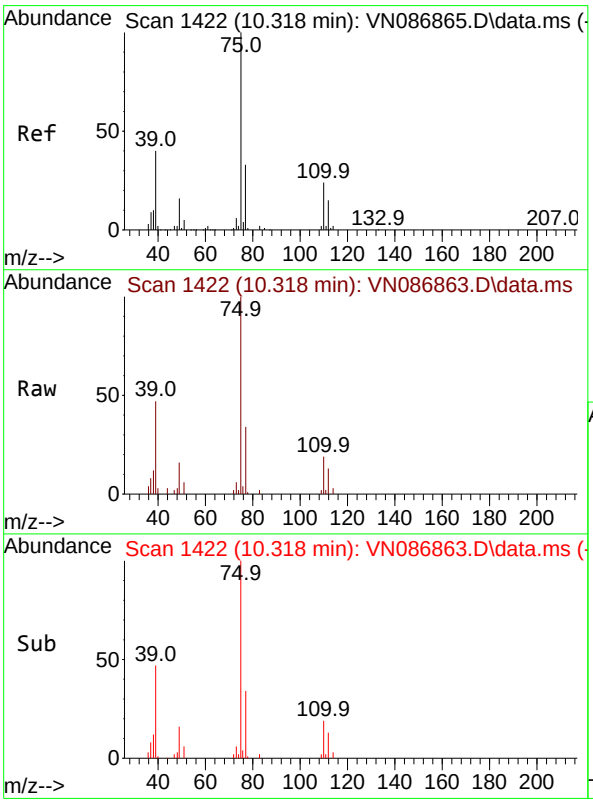
#53
t-1,3-Dichloropropene
Concen: 4.896 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 22285

Ion	Ratio	Lower	Upper
75	100		
77	31.9	26.4	39.6

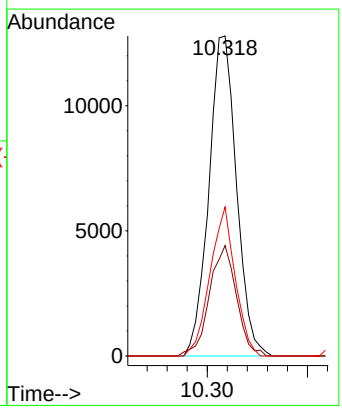


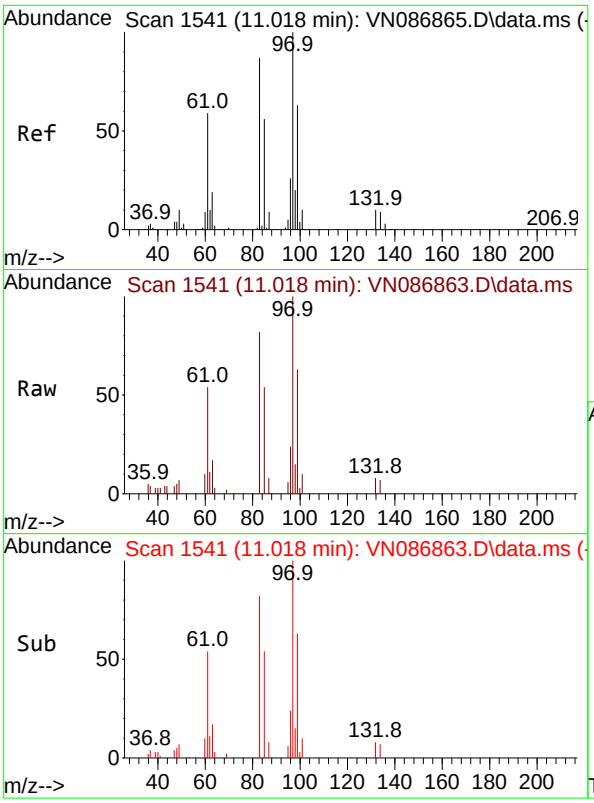


#54
cis-1,3-Dichloropropene
Concen: 5.026 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 75 Resp: 24477

Ion	Ratio	Lower	Upper
75	100		
77	34.5	26.2	39.4
39	46.5	32.3	48.5



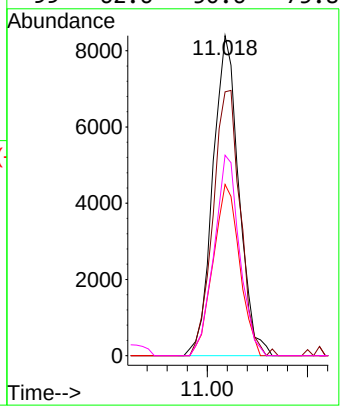


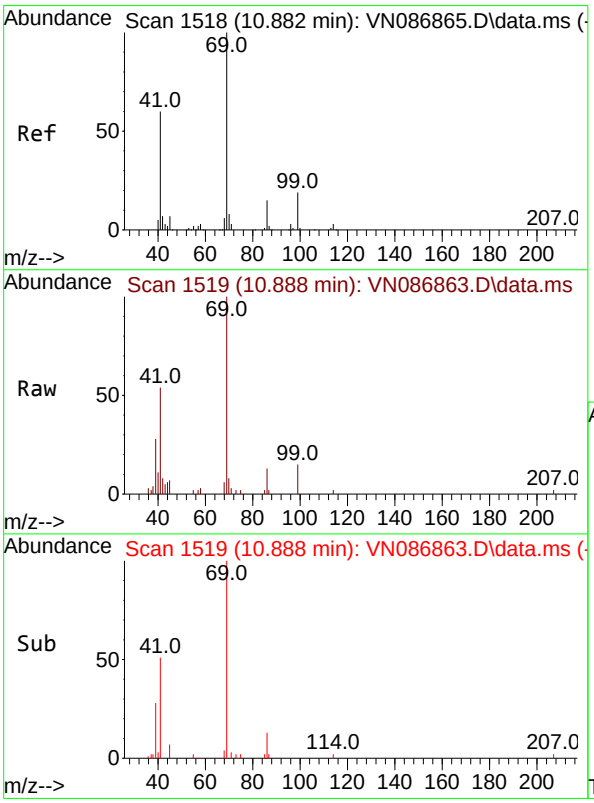
#55
1,1,2-Trichloroethane
Concen: 5.234 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 97 Resp: 15068

Ion	Ratio	Lower	Upper
97	100		
83	82.5	69.7	104.5
85	53.5	45.1	67.7
99	62.6	50.6	75.8

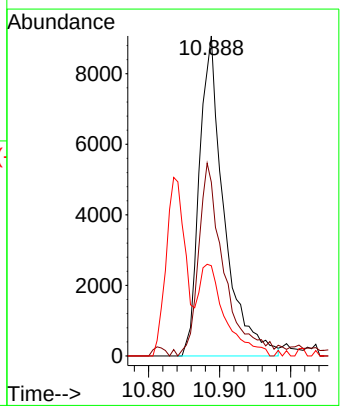


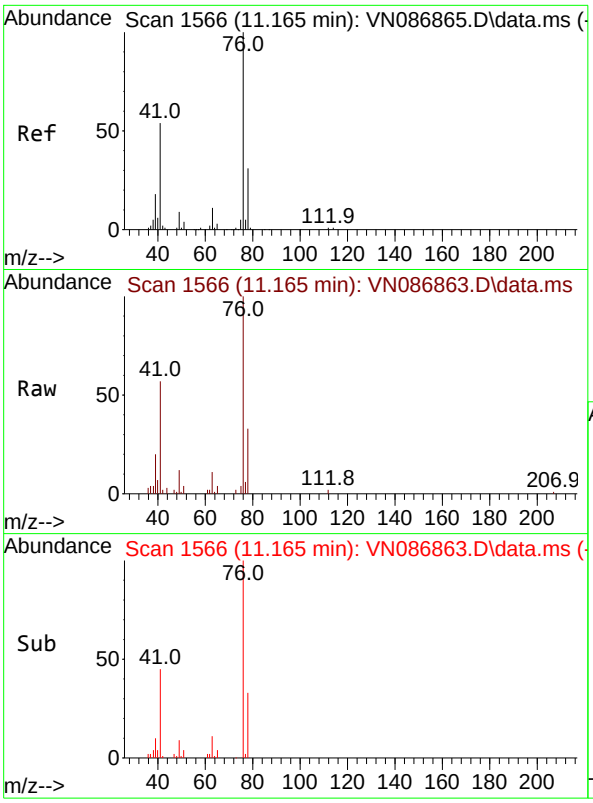


#56
Ethyl methacrylate
Concen: 4.774 ug/l
RT: 10.888 min Scan# 1519
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 69 Resp: 21893

Ion	Ratio	Lower	Upper
69	100		
41	63.5	47.2	70.8
39	29.9	23.0	34.6



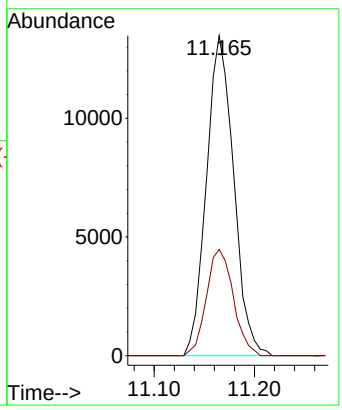


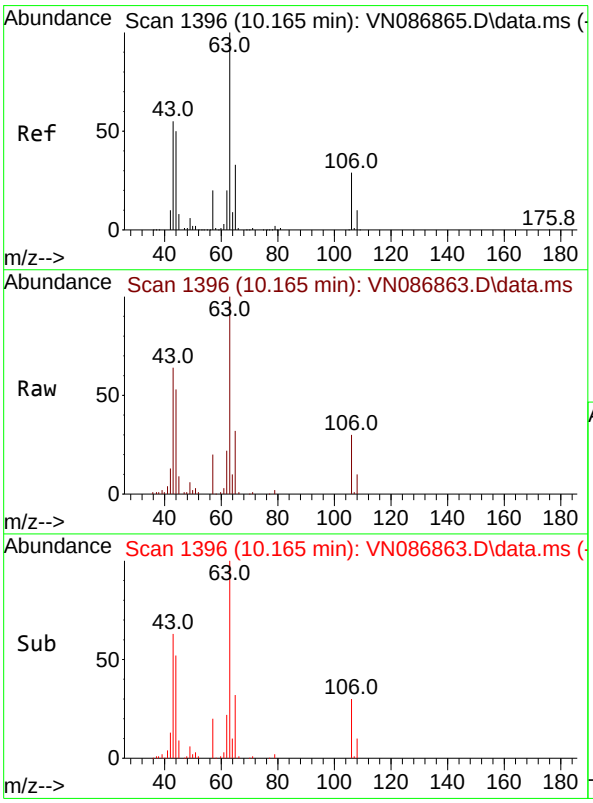
#57
1,3-Dichloropropane
Concen: 5.096 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 25452

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.3	37.9

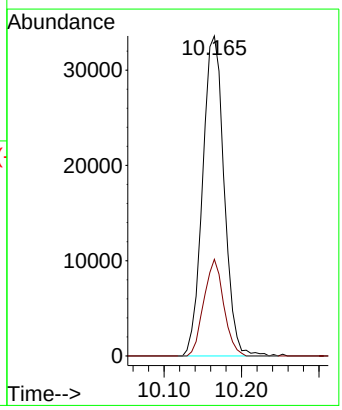


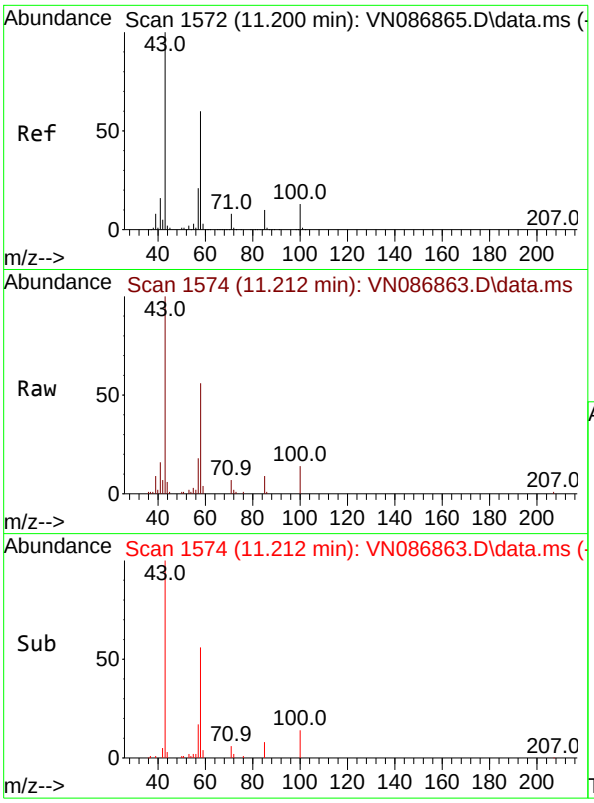


#58
2-Chloroethyl Vinyl ether
Concen: 23.664 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 63 Resp: 64722

Ion	Ratio	Lower	Upper
63	100		
106	27.9	23.0	34.6



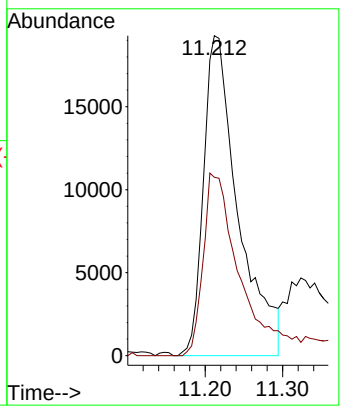


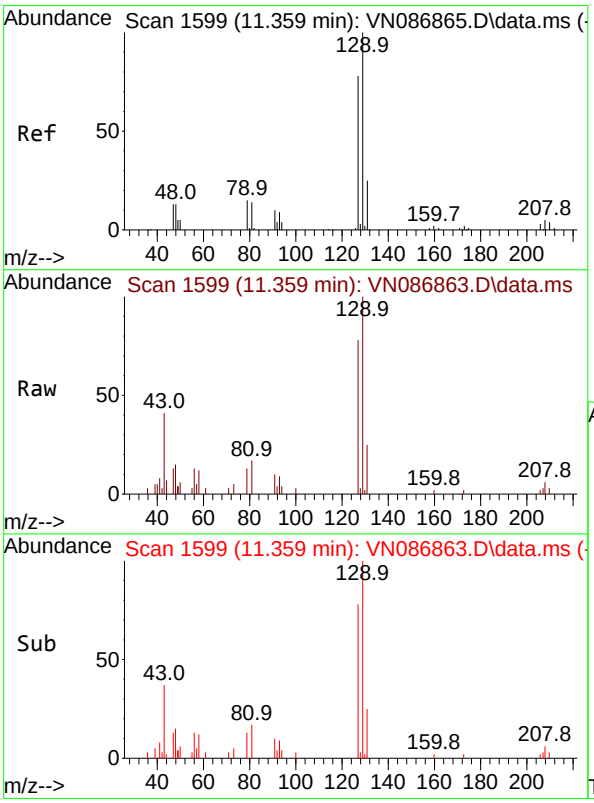
#59
2-Hexanone
Concen: 20.188 ug/l
RT: 11.212 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 59884

Ion	Ratio	Lower	Upper
43	100		
58	60.5	30.4	91.3

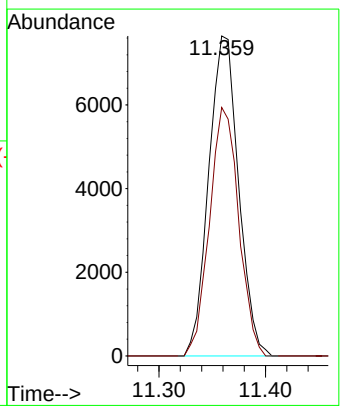


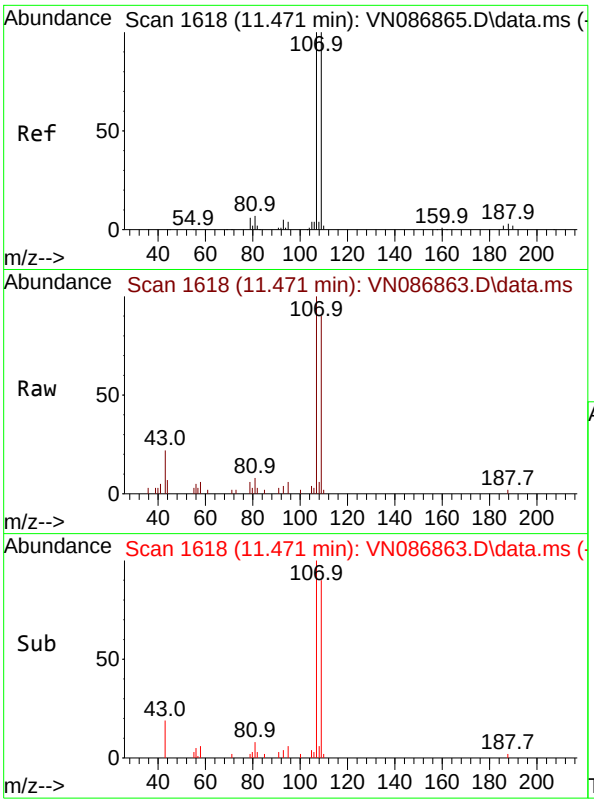


#60
Dibromochloromethane
Concen: 4.962 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:129 Resp: 14884

Ion	Ratio	Lower	Upper
129	100		
127	75.9	38.6	115.8



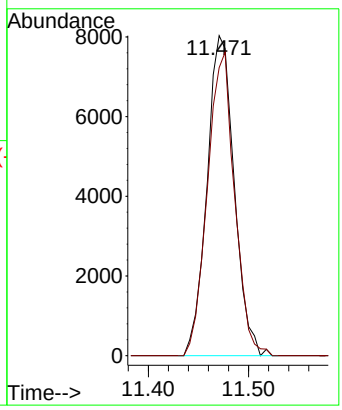


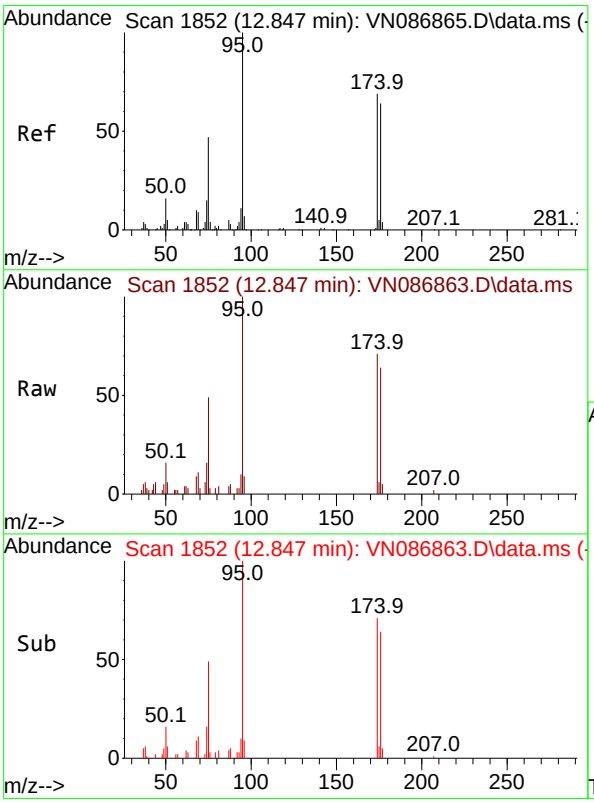
#61
1,2-Dibromoethane
Concen: 5.141 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 15172

Ion	Ratio	Lower	Upper
107	100		
109	94.2	76.3	114.5

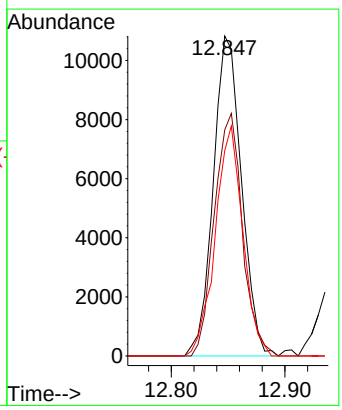


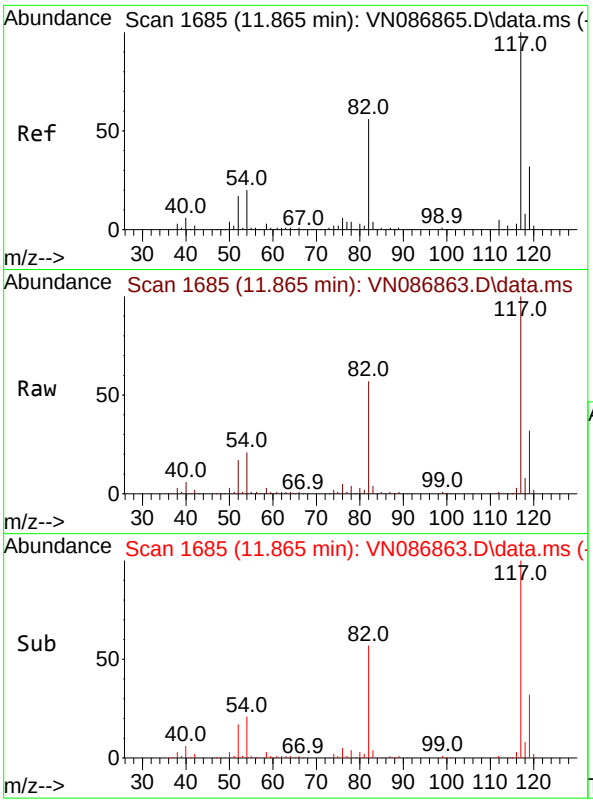


#62
4-Bromofluorobenzene
Concen: 5.059 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 95 Resp: 18697

Ion	Ratio	Lower	Upper
95	100		
174	75.5	0.0	141.8
176	70.2	0.0	132.6



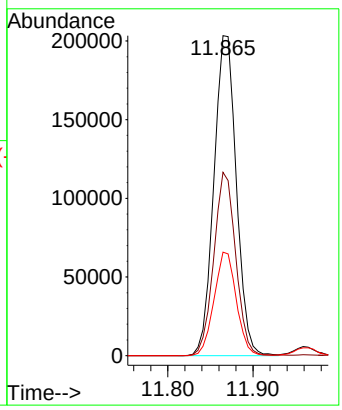


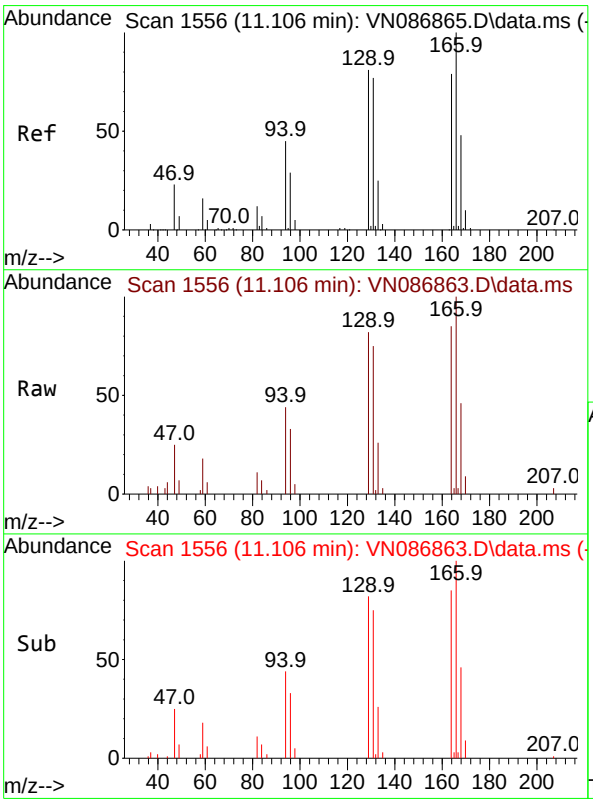
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 371851

Ion	Ratio	Lower	Upper
117	100		
82	57.3	44.6	67.0
119	32.3	25.5	38.3

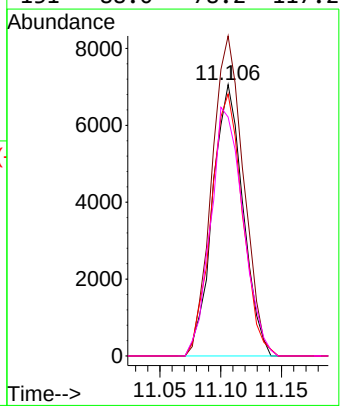


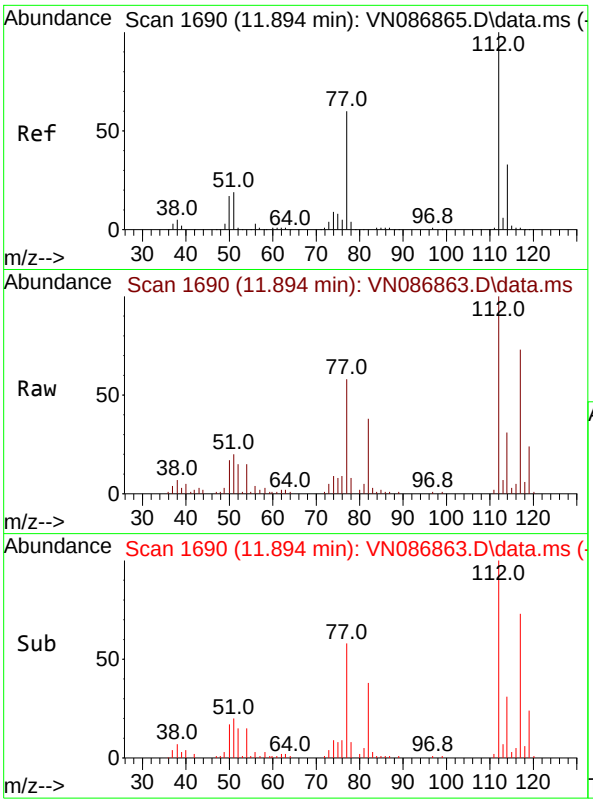


#64
Tetrachloroethene
Concen: 5.236 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:164 Resp: 12322

Ion	Ratio	Lower	Upper
164	100		
166	117.9	101.8	152.8
129	96.6	83.0	124.4
131	88.0	78.2	117.2



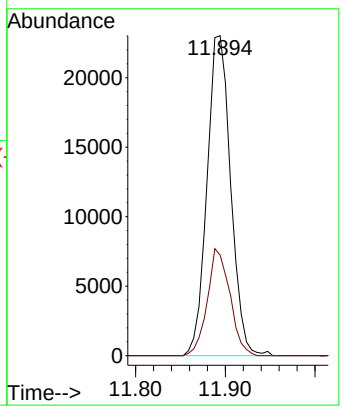


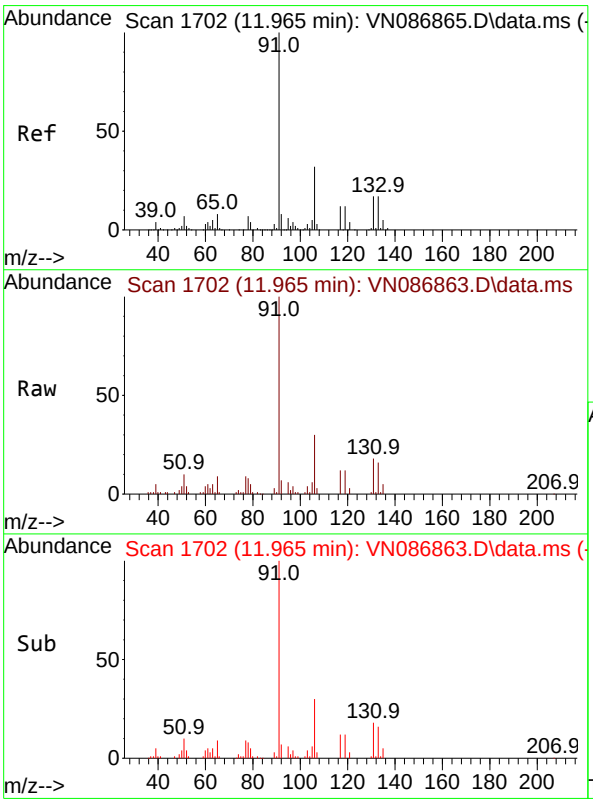
#65
Chlorobenzene
Concen: 5.145 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 42195

Ion	Ratio	Lower	Upper
112	100		
114	31.5	26.2	39.2

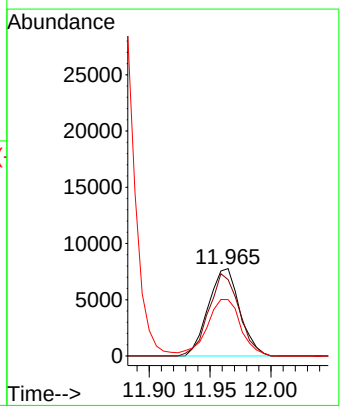


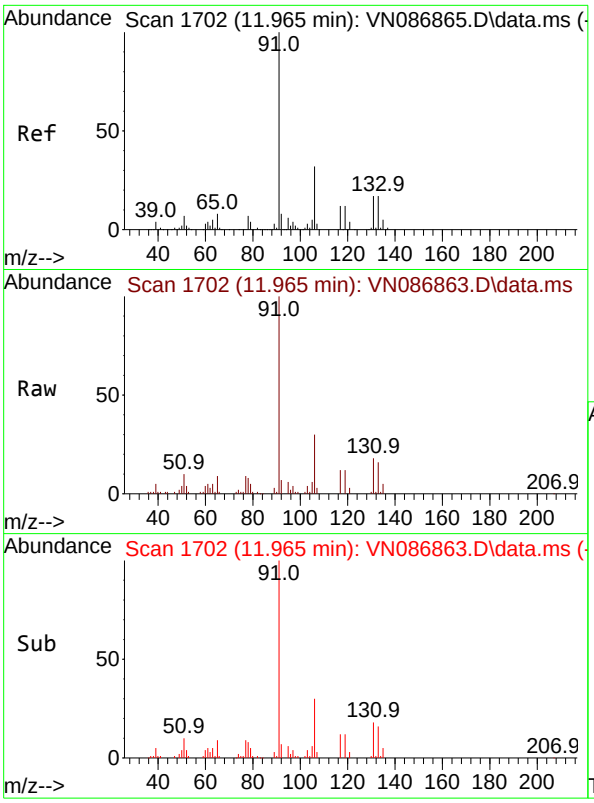


#66
1,1,1,2-Tetrachloroethane
Concen: 5.271 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:131 Resp: 13897

Ion	Ratio	Lower	Upper
131	100		
133	91.7	48.3	144.8
119	69.1	34.0	101.8



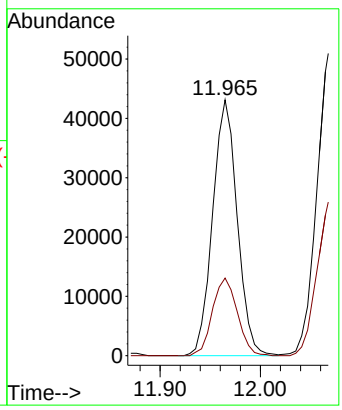


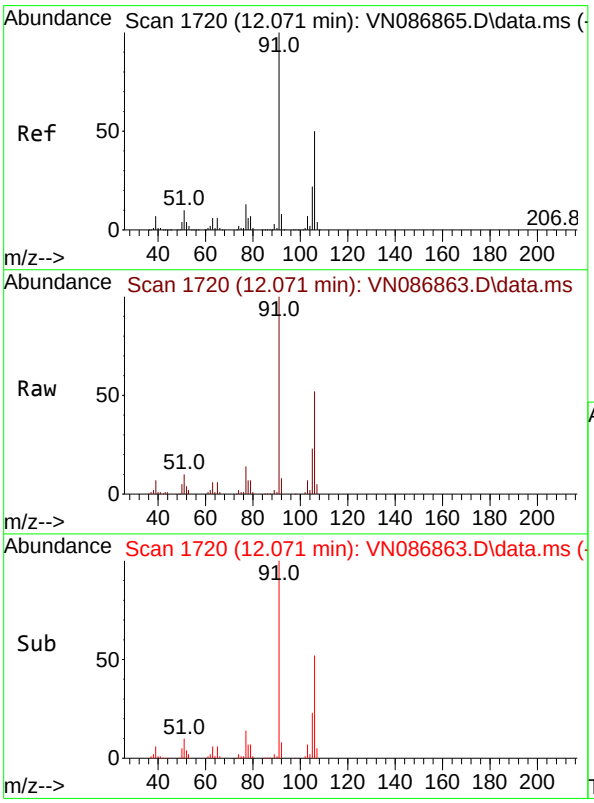
#67
Ethyl Benzene
Concen: 5.199 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 73443

Ion	Ratio	Lower	Upper
91	100		
106	30.3	25.4	38.2

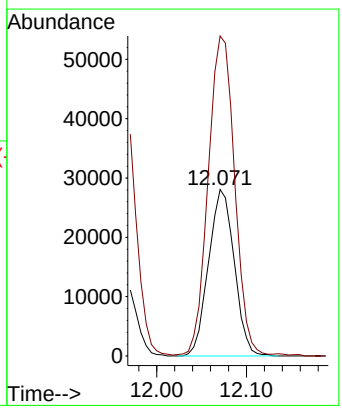


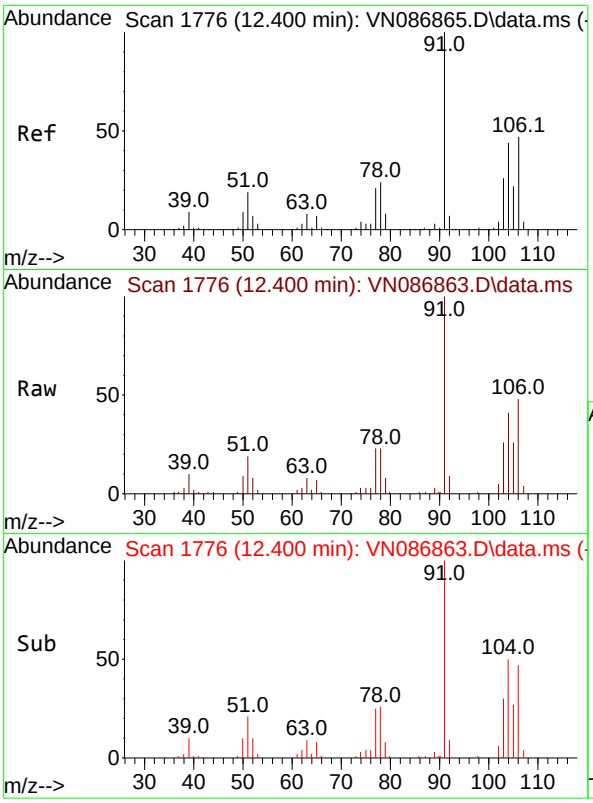


#68
m/p-Xylenes
Concen: 10.330 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:106 Resp: 55859

Ion	Ratio	Lower	Upper
106	100		
91	199.0	159.4	239.0



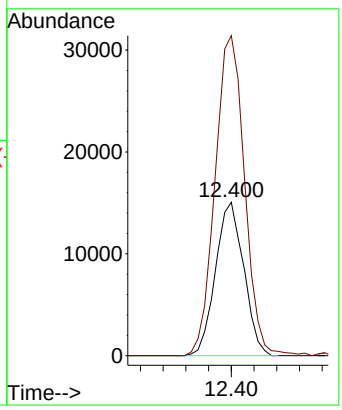


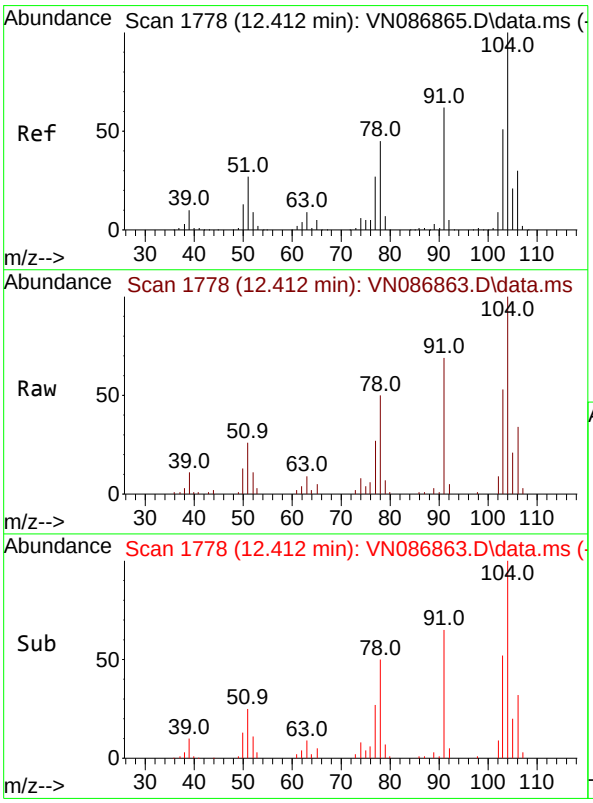
#69
o-Xylene
Concen: 5.021 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 26004

Ion	Ratio	Lower	Upper
106	100		
91	218.1	106.1	318.1

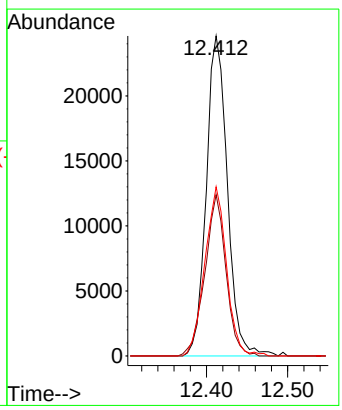


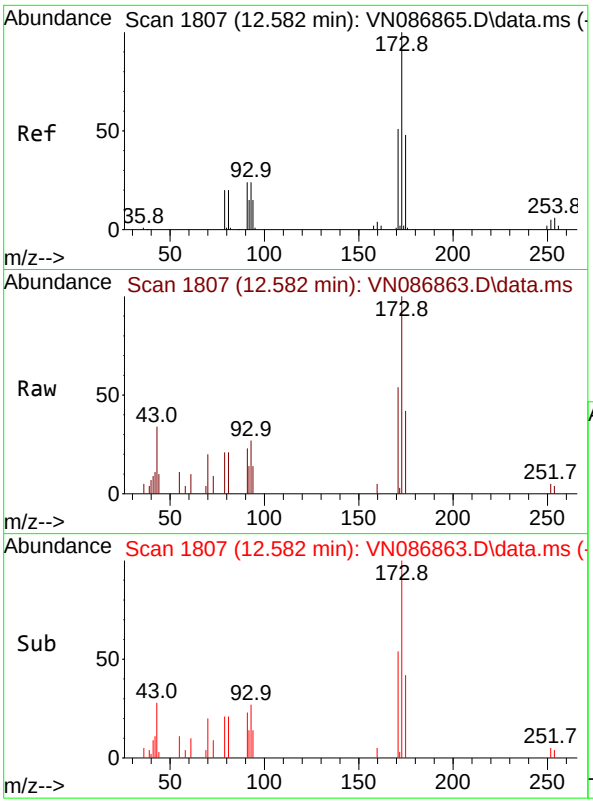


#70
Styrene
Concen: 5.008 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:104 Resp: 44380

Ion	Ratio	Lower	Upper
104	100		
78	50.4	38.5	57.7
103	54.4	43.1	64.7



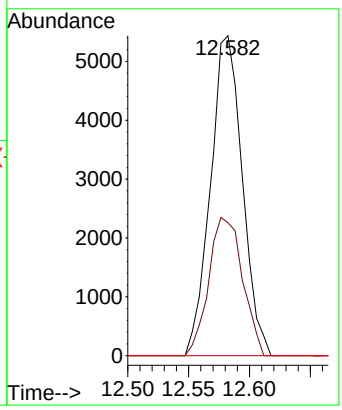


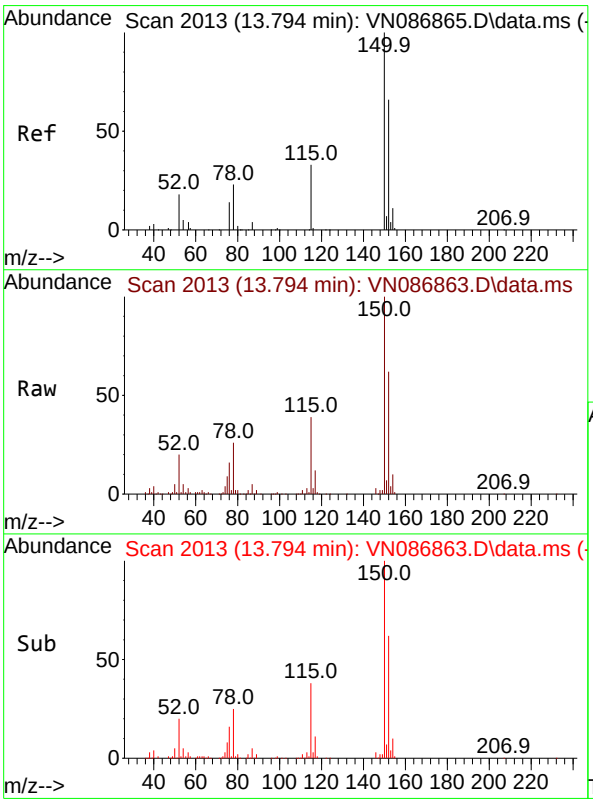
#71
Bromoform
Concen: 5.063 ug/l
RT: 12.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:173 Resp: 9890

Ion	Ratio	Lower	Upper
173	100		
175	45.8	24.1	72.4
254	0.0	0.0	0.0

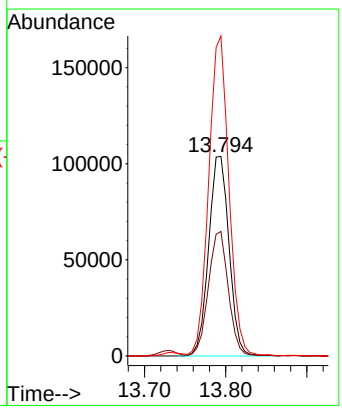


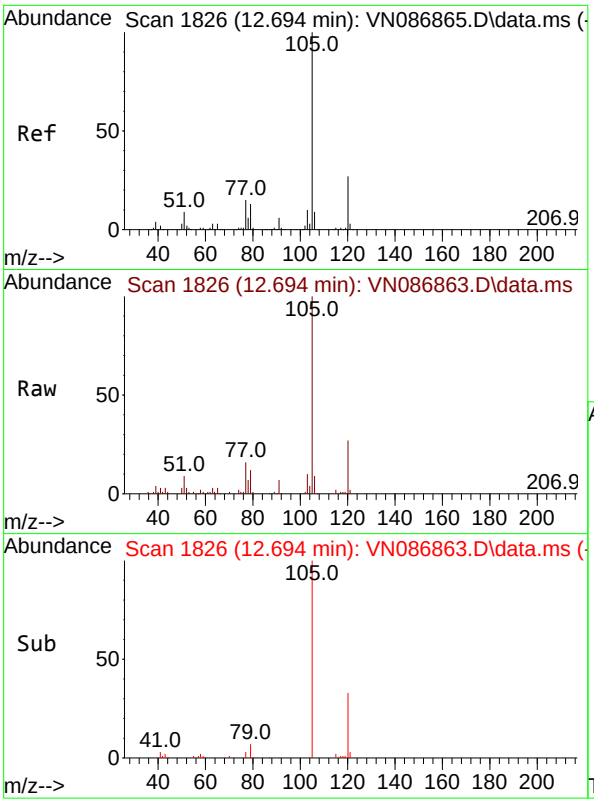


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:152 Resp: 181065

Ion	Ratio	Lower	Upper
152	100		
115	61.2	30.1	90.5
150	157.8	0.0	345.0



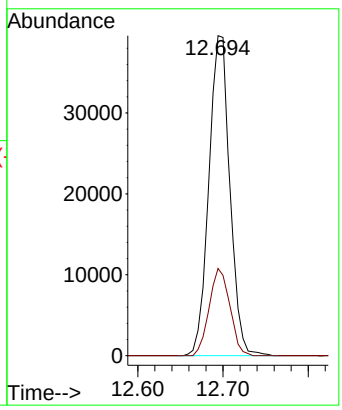


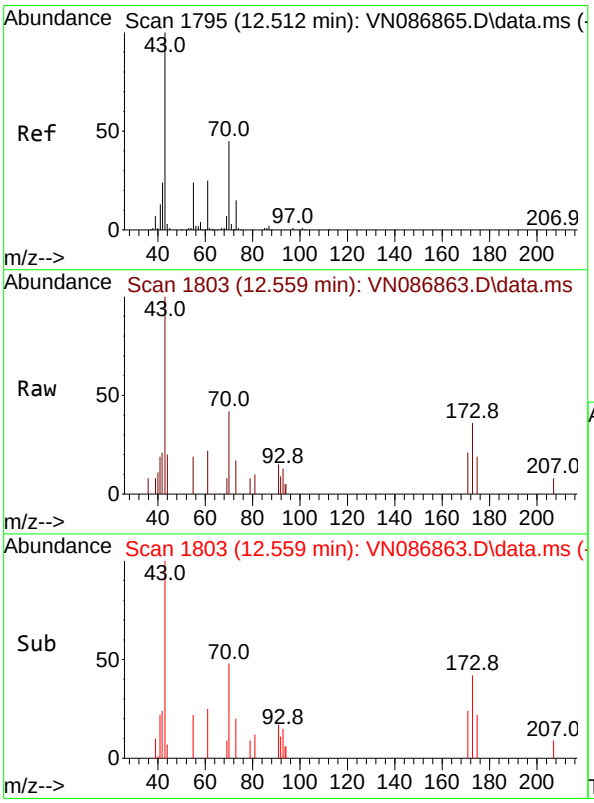
#73
Isopropylbenzene
Concen: 5.146 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 67878

Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.5	40.4

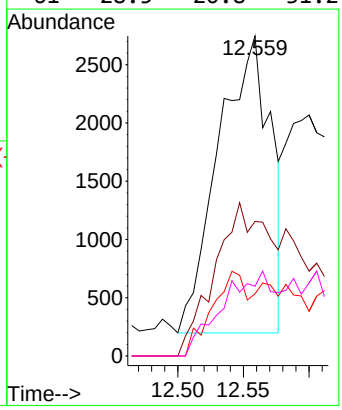


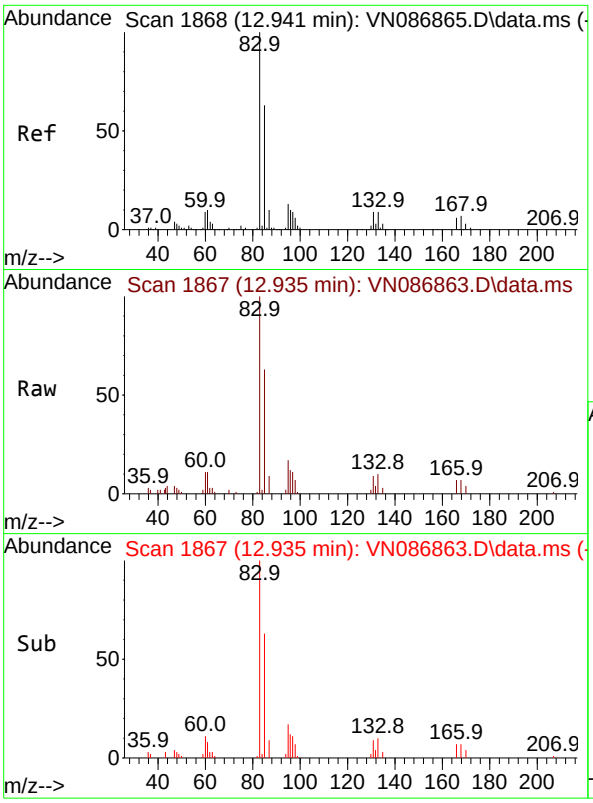


#74
N-amyl acetate
Concen: 1.611 ug/l
RT: 12.559 min Scan# 1803
Delta R.T. 0.047 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 7051

Ion	Ratio	Lower	Upper
43	100		
70	0.0	37.6	56.4#
55	0.0	19.0	28.6#
61	28.5	20.8	31.2



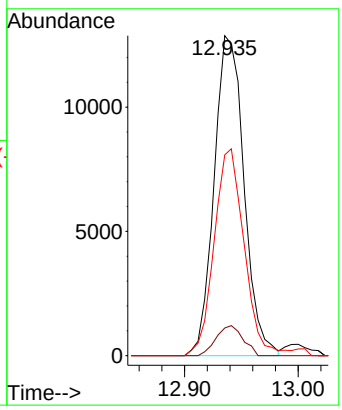


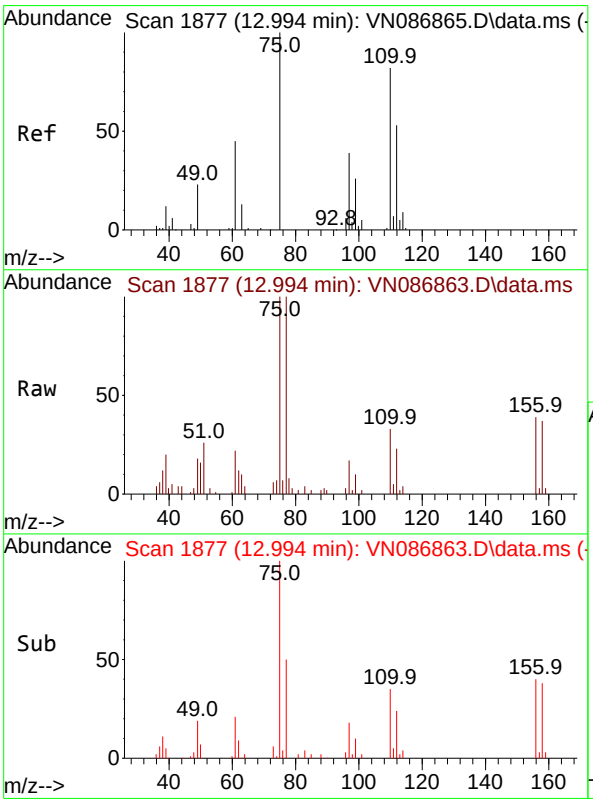
#75
1,1,2,2-Tetrachloroethane
Concen: 5.262 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 23516

Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.9	14.7
85	65.1	32.0	96.0

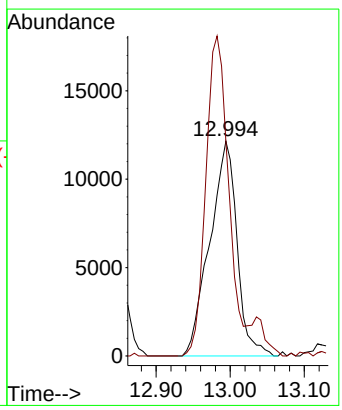


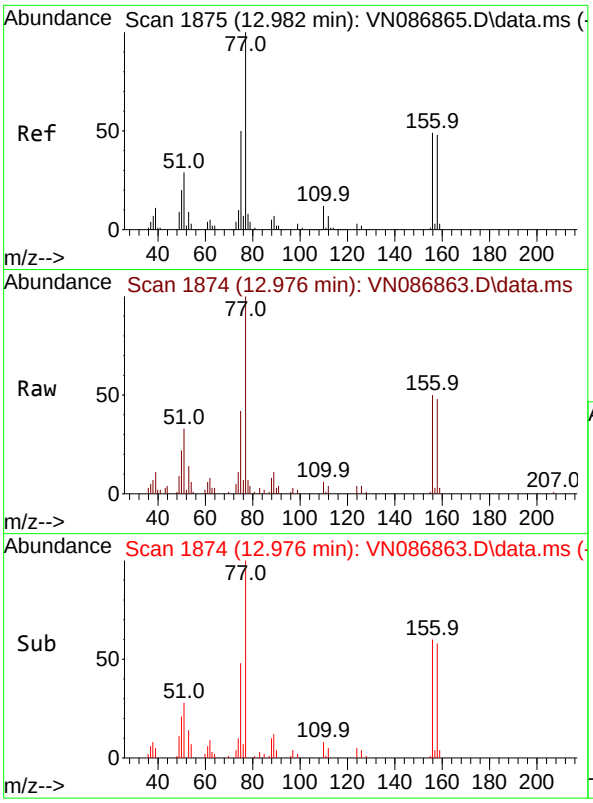


#76
1,2,3-Trichloropropane
Concen: 7.181 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 75 Resp: 31004

Ion	Ratio	Lower	Upper
75	100		
77	124.8	79.3	237.9



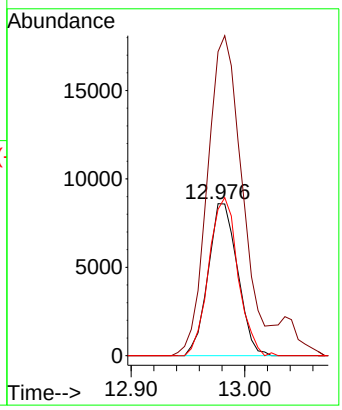


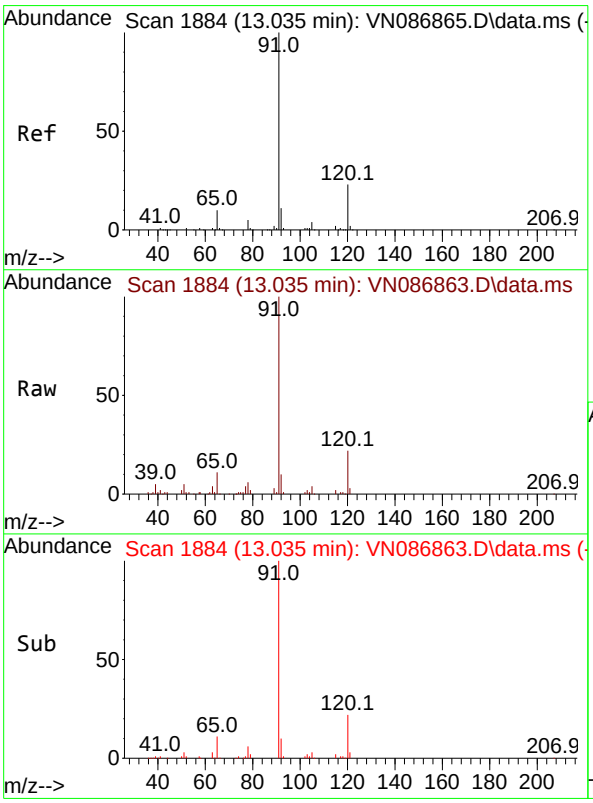
#77
Bromobenzene
Concen: 5.119 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 15485

Ion	Ratio	Lower	Upper
156	100		
77	249.9	117.7	353.1
158	102.9	48.1	144.4

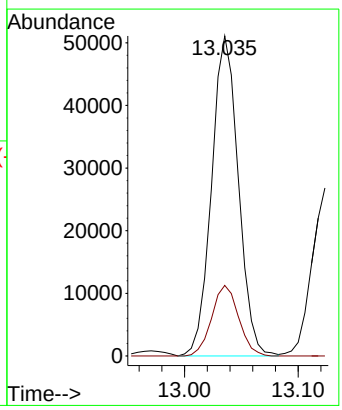


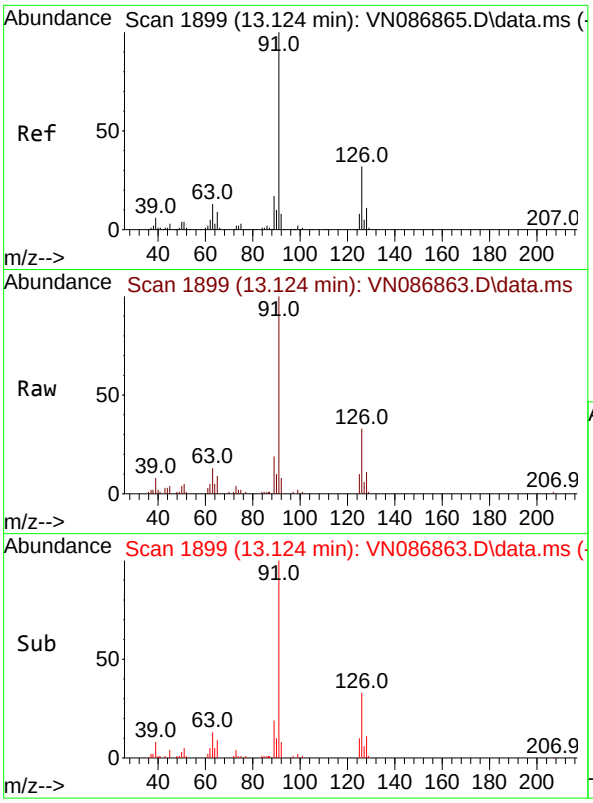


#78
n-propylbenzene
Concen: 5.226 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 91 Resp: 83781

Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.4	34.2



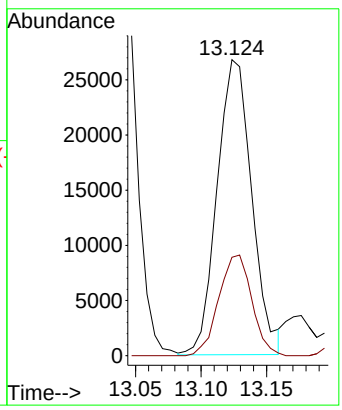


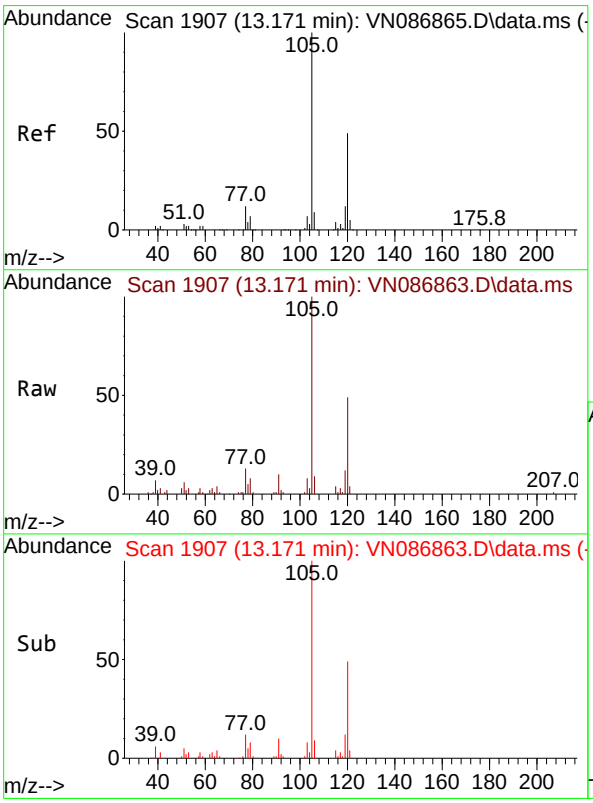
#79
2-Chlorotoluene
Concen: 5.128 ug/l
RT: 13.124 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 49297

Ion	Ratio	Lower	Upper
91	100		
126	32.5	16.2	48.5

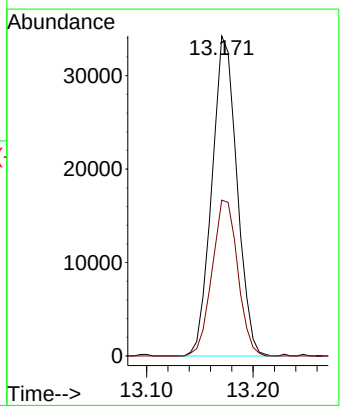


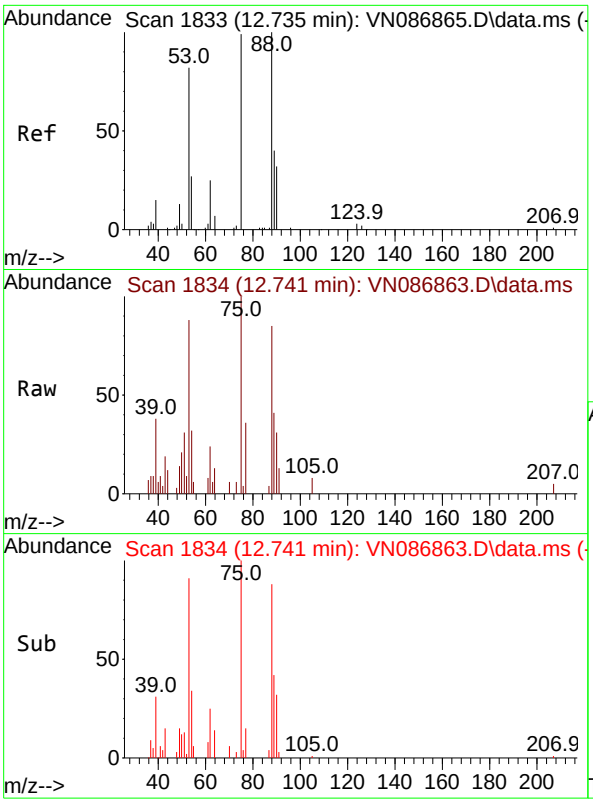


#80
1,3,5-Trimethylbenzene
Concen: 5.139 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:105 Resp: 55961

Ion	Ratio	Lower	Upper
105	100		
120	49.8	24.9	74.6



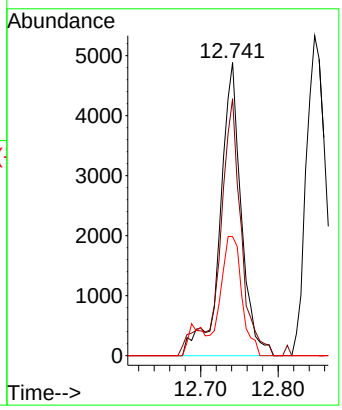


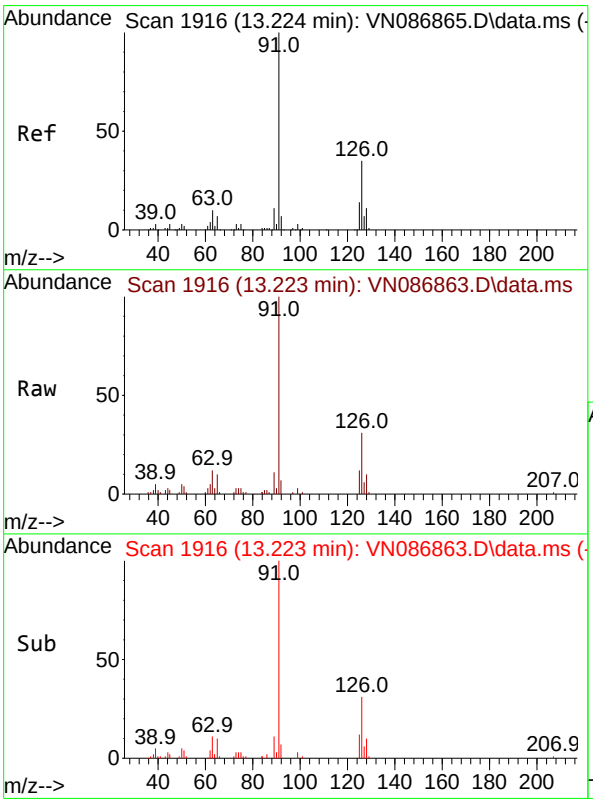
#81
trans-1,4-Dichloro-2-butene
Concen: 4.939 ug/l
RT: 12.741 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 9234

Ion	Ratio	Lower	Upper
75	100		
53	88.6	66.6	99.8
89	41.4	36.7	55.1

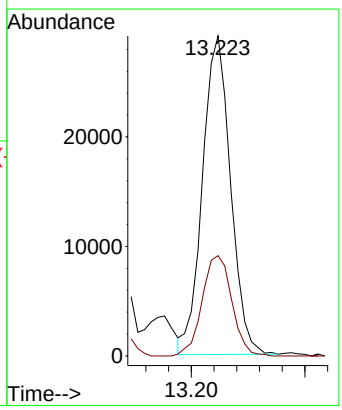


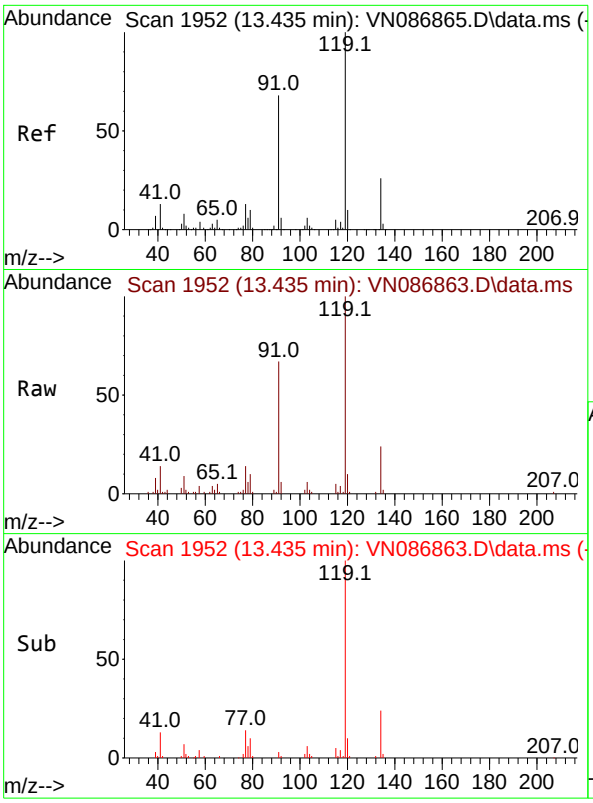


#82
4-Chlorotoluene
Concen: 5.132 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 91 Resp: 49924

Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.7	50.1



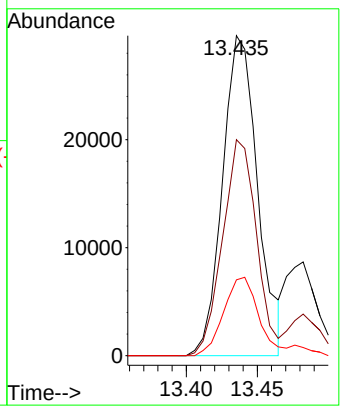


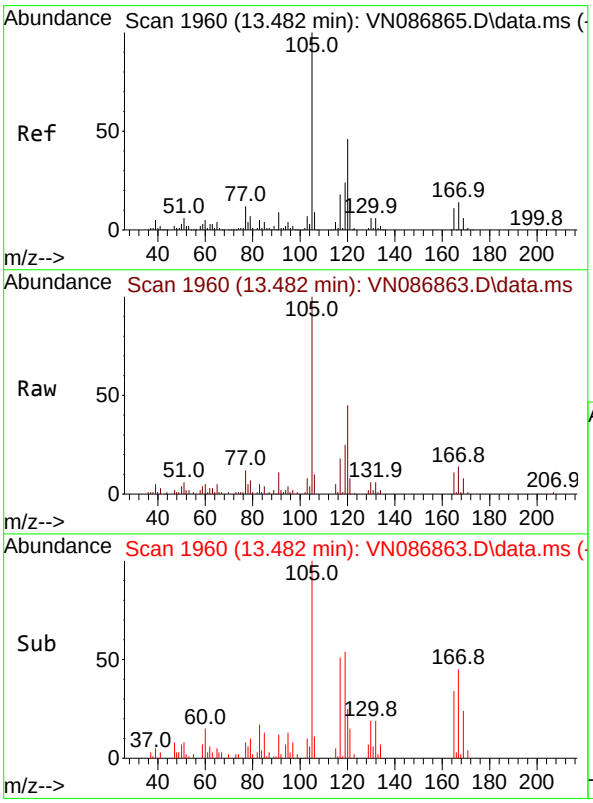
#83
tert-Butylbenzene
Concen: 5.103 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:119 Resp: 50874

Ion	Ratio	Lower	Upper
119	100		
91	65.3	32.1	96.5
134	24.5	13.4	40.1

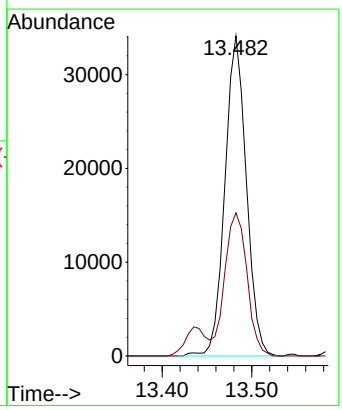


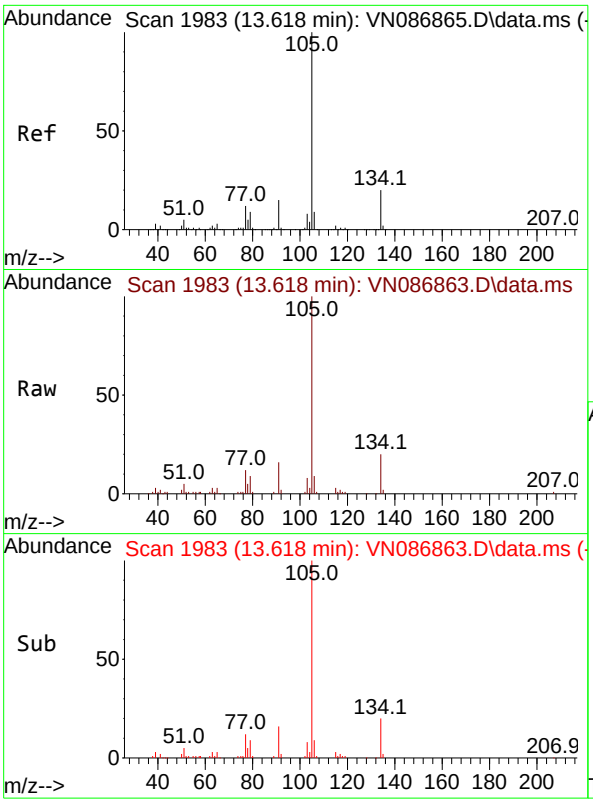


#84
1,2,4-Trimethylbenzene
Concen: 5.176 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:105 Resp: 56525

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.2	69.6



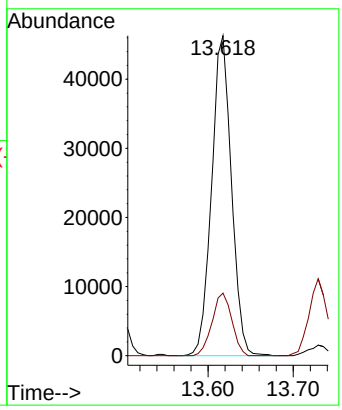


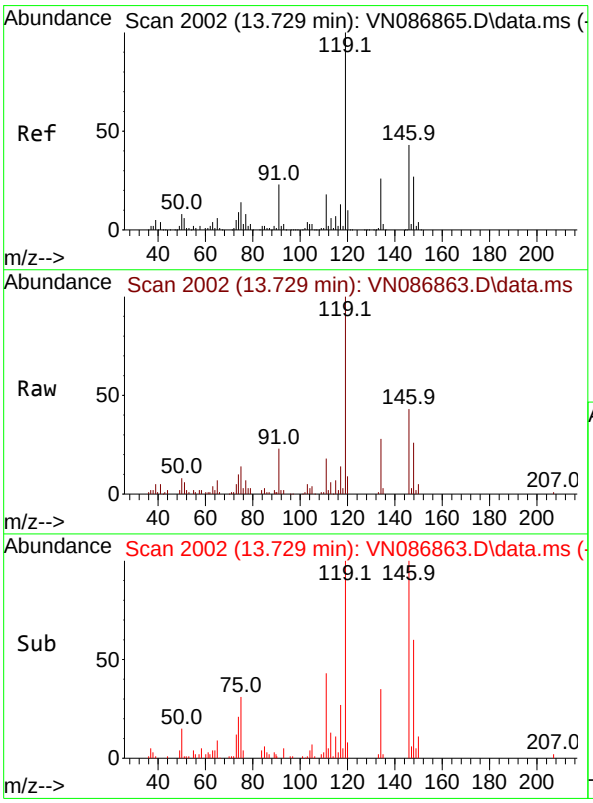
#85
sec-Butylbenzene
Concen: 5.161 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 74711

Ion	Ratio	Lower	Upper
105	100		
134	19.5	10.0	30.0

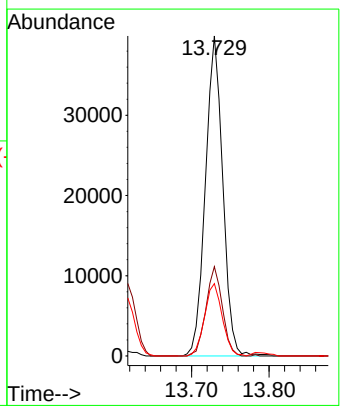


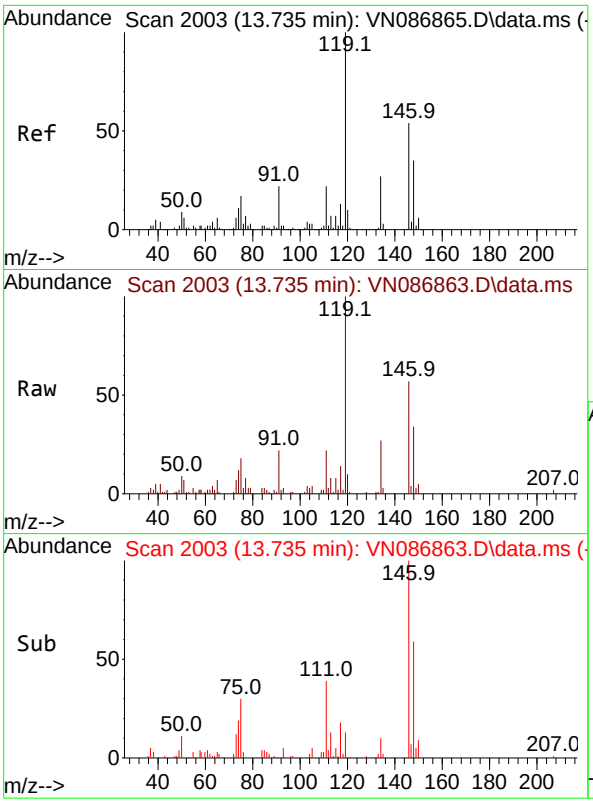


#86
p-Isopropyltoluene
Concen: 5.182 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:119 Resp: 62016

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.5	40.4
91	22.9	11.5	34.4



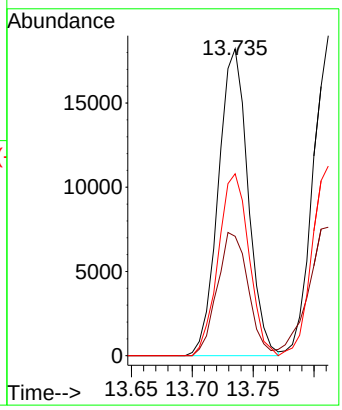


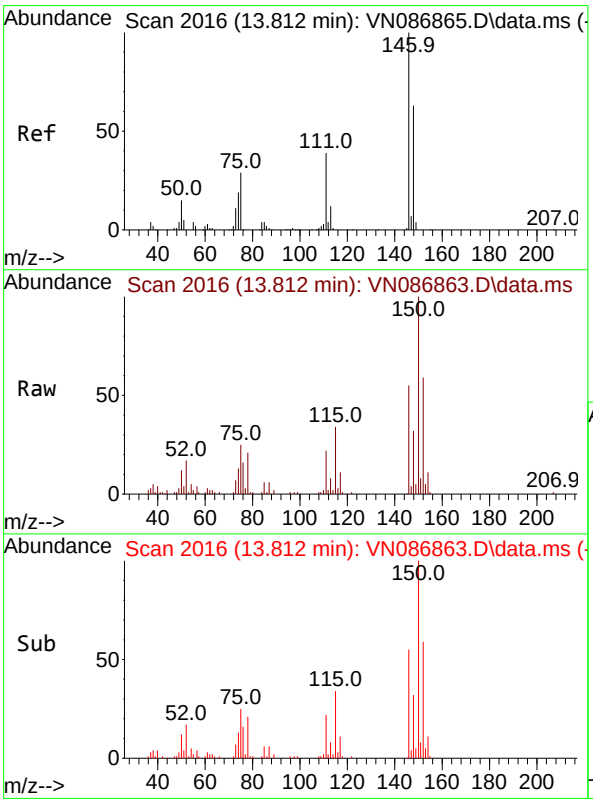
#87
1,3-Dichlorobenzene
Concen: 5.200 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 30949

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.9	62.8
148	61.1	32.0	96.2

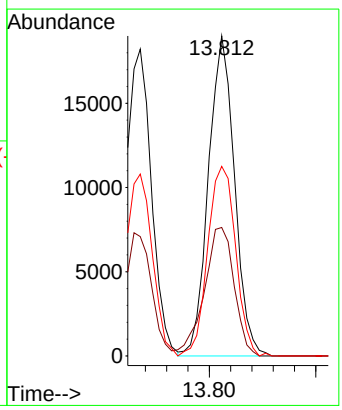


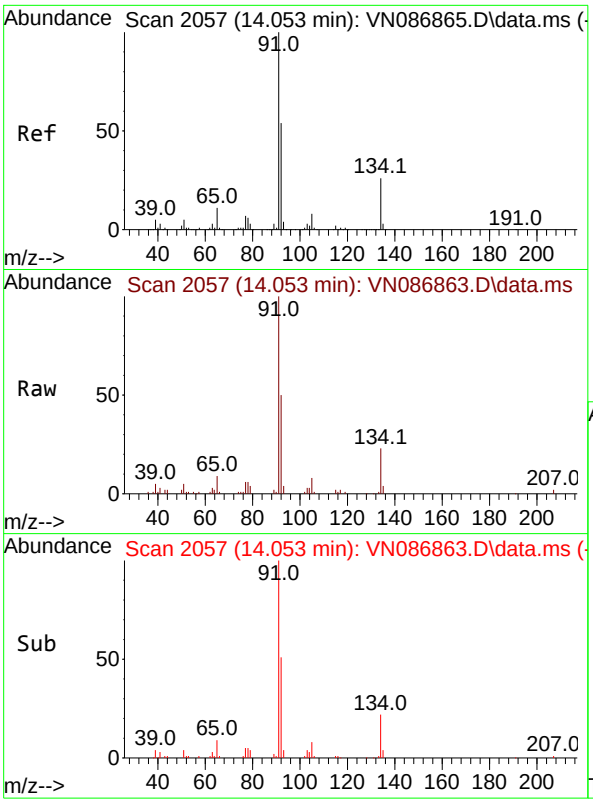


#88
1,4-Dichlorobenzene
Concen: 5.330 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:146 Resp: 32342

Ion	Ratio	Lower	Upper
146	100		
111	46.1	19.9	59.7
148	63.3	31.8	95.4



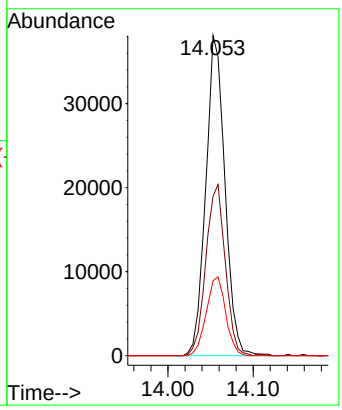


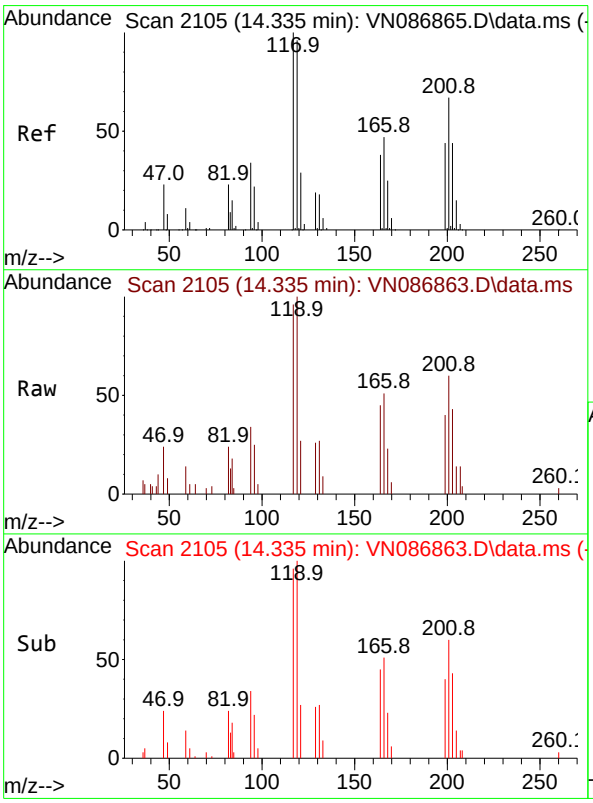
#89
n-Butylbenzene
Concen: 5.142 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 59601

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.5	82.4
134	24.9	13.0	39.0

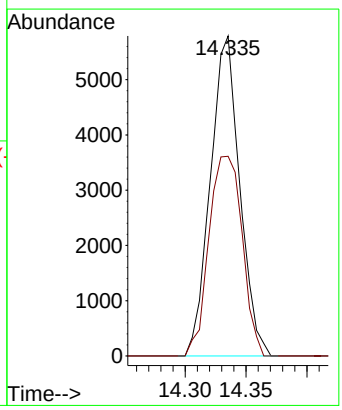


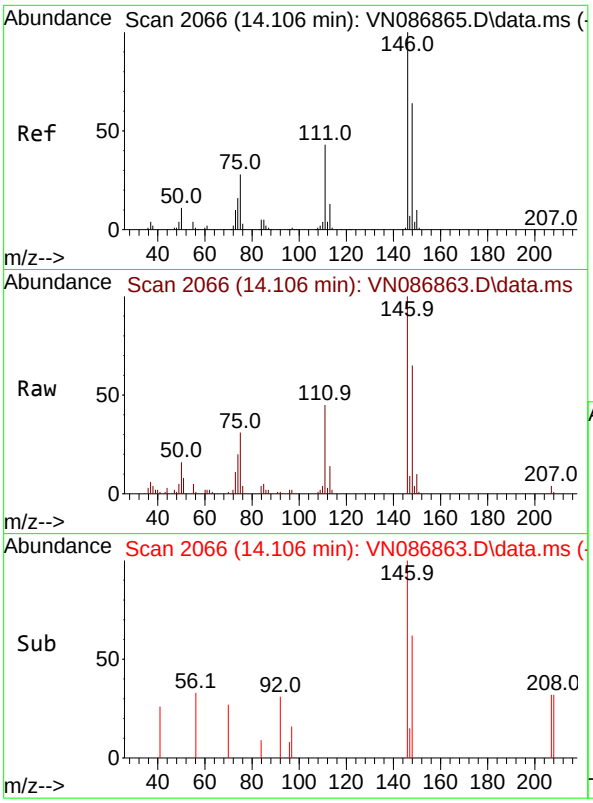


#90
Hexachloroethane
Concen: 4.794 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:117 Resp: 9725

Ion	Ratio	Lower	Upper
117	100		
201	70.6	33.2	99.6



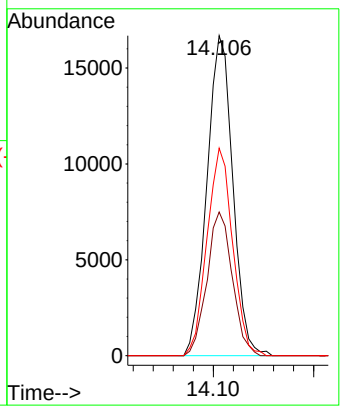


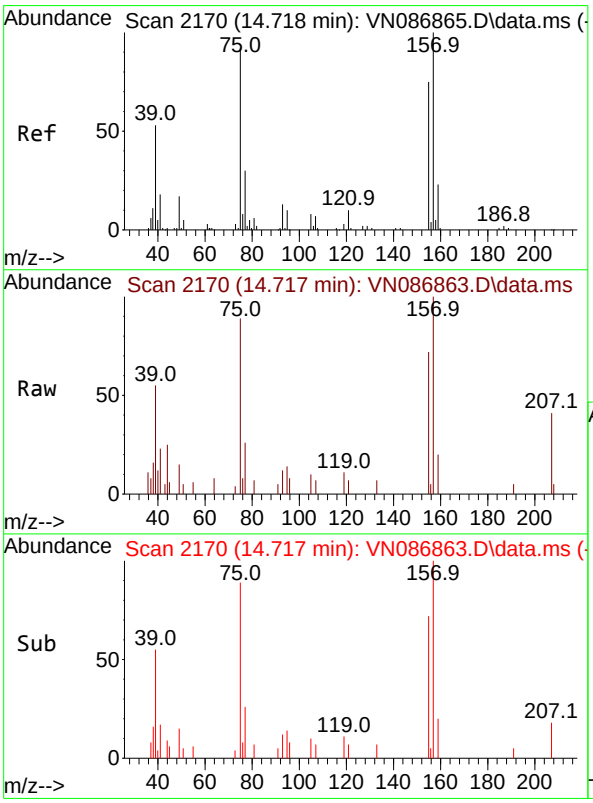
#91
1,2-Dichlorobenzene
Concen: 5.228 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:146 Resp: 29897

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.6	64.6
148	64.3	31.7	95.1

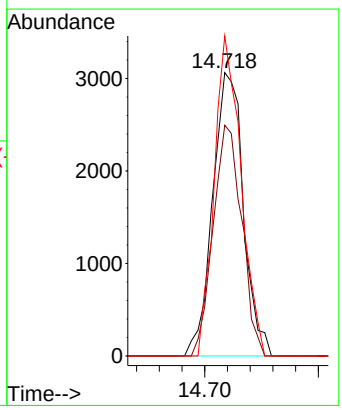


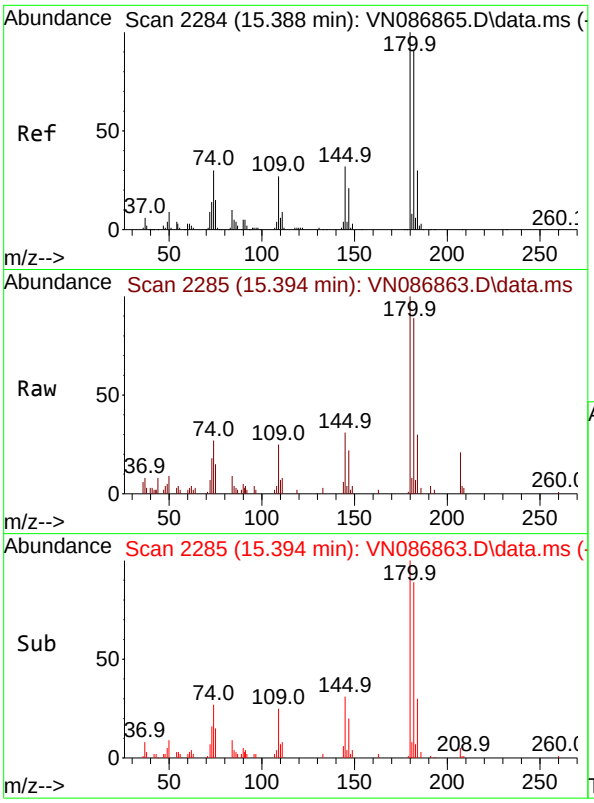


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.363 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 75 Resp: 5731

Ion	Ratio	Lower	Upper
75	100		
155	76.0	41.1	123.4
157	98.8	52.7	158.1



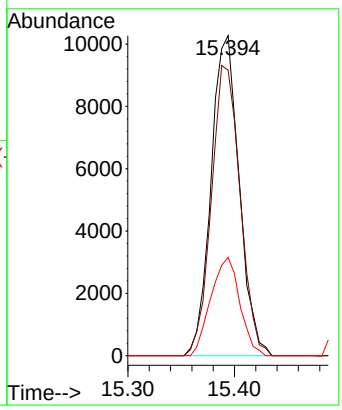


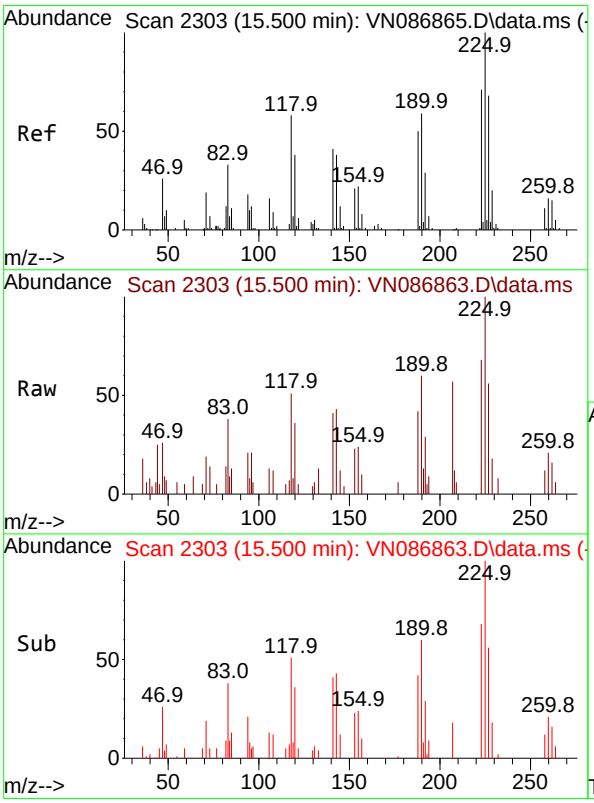
#93
1,2,4-Trichlorobenzene
Concen: 5.143 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:180 Resp: 18778

Ion	Ratio	Lower	Upper
180	100		
182	92.6	46.9	140.7
145	31.7	16.0	47.9

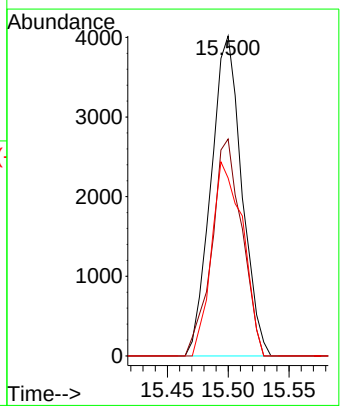


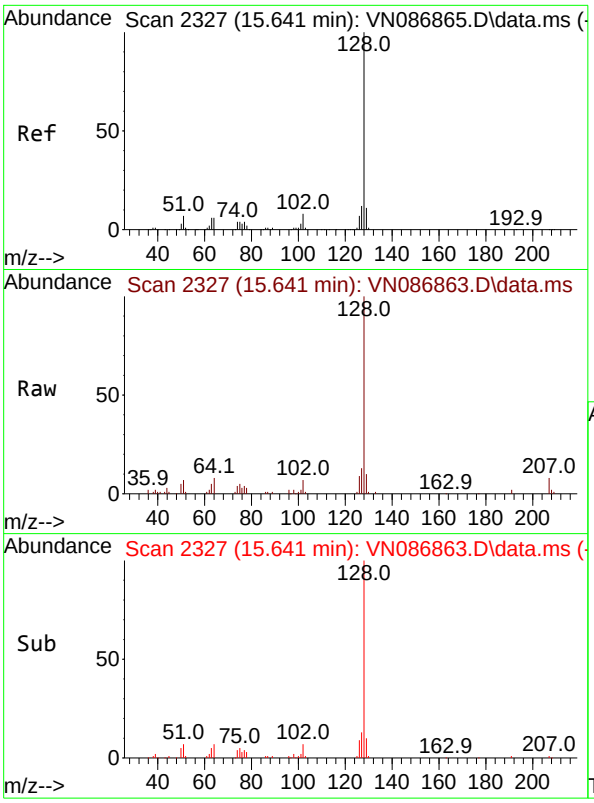


#94
Hexachlorobutadiene
Concen: 5.199 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:225 Resp: 7072

Ion	Ratio	Lower	Upper
225	100		
223	66.4	33.5	100.4
227	61.7	31.1	93.5



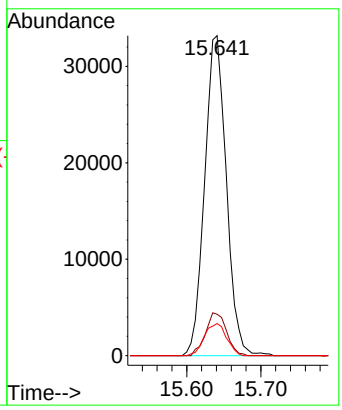


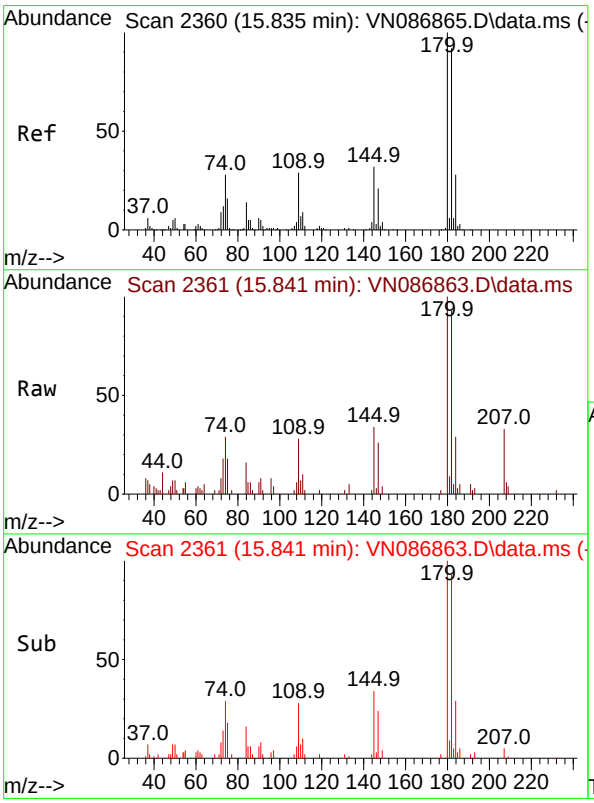
#95
Naphthalene
Concen: 4.965 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 67481

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	10.3	8.8	13.2

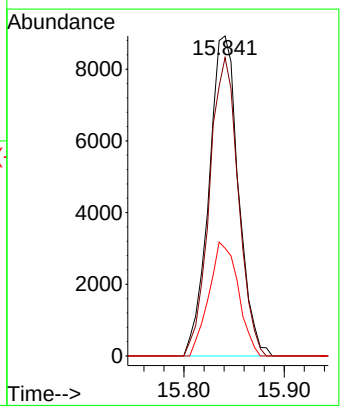




#96
1,2,3-Trichlorobenzene
Concen: 5.034 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:180 Resp: 18262

Ion	Ratio	Lower	Upper
180	100		
182	90.9	47.0	141.0
145	35.3	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086864.D
Acq On : 06 Jun 2025 13:40
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Jun 07 01:56:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	224006	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	418154	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	363172	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	181178	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	63390	21.136	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	42.280%#		
35) Dibromofluoromethane	8.177	113	51797	20.902	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	41.800%#		
50) Toluene-d8	10.571	98	201268	20.516	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	41.040%#		
62) 4-Bromofluorobenzene	12.853	95	74622	20.474	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	40.940%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.159	85	48254	21.605	ug/l	92
3) Chloromethane	2.401	50	57778	20.033	ug/l	93
4) Vinyl Chloride	2.559	62	61254	20.589	ug/l	99
5) Bromomethane	3.006	94	34022	20.435	ug/l	95
6) Chloroethane	3.159	64	39625	20.619	ug/l	99
7) Trichlorofluoromethane	3.524	101	80978	20.832	ug/l	94
8) Diethyl Ether	3.983	74	34288	20.245	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.395	101	50458	20.661	ug/l	98
10) Methyl Iodide	4.612	142	65360	20.646	ug/l	98
11) Tert butyl alcohol	5.547	59	87102	107.031	ug/l	99
12) 1,1-Dichloroethene	4.359	96	50485	20.249	ug/l	96
13) Acrolein	4.200	56	22866	88.767	ug/l	97
14) Allyl chloride	5.047	41	82924	20.055	ug/l	98
15) Acrylonitrile	5.742	53	199498	104.881	ug/l	99
16) Acetone	4.447	43	163979	103.099	ug/l	98
17) Carbon Disulfide	4.736	76	138195	20.038	ug/l	97
18) Methyl Acetate	5.047	43	96547	20.830	ug/l	99
19) Methyl tert-butyl Ether	5.818	73	183780	20.358	ug/l	98
20) Methylene Chloride	5.294	84	57611	19.348	ug/l	98
21) trans-1,2-Dichloroethene	5.806	96	55643	20.059	ug/l	94
22) Diisopropyl ether	6.689	45	182472	20.935	ug/l	98
23) Vinyl Acetate	6.624	43	768556	104.365	ug/l	99
24) 1,1-Dichloroethane	6.583	63	103578	20.650	ug/l	99
25) 2-Butanone	7.494	43	270477	104.621	ug/l	100
26) 2,2-Dichloropropane	7.506	77	69692	17.862	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	68292	20.585	ug/l	98
28) Bromochloromethane	7.824	49	55196	22.381	ug/l	99
29) Tetrahydrofuran	7.853	42	178571	106.031	ug/l	99
30) Chloroform	7.977	83	102615	20.485	ug/l	93
31) Cyclohexane	8.271	56	100026	20.563	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	86810	20.376	ug/l	98
36) 1,1-Dichloropropene	8.383	75	73252	19.838	ug/l	100
37) Ethyl Acetate	7.571	43	96467	20.522	ug/l	98
38) Carbon Tetrachloride	8.377	117	72628	20.034	ug/l	97
39) Methylcyclohexane	9.606	83	98425	19.455	ug/l	99
40) Benzene	8.612	78	241444	19.996	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086864.D
Acq On : 06 Jun 2025 13:40
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Jun 07 01:56:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	53244	20.169	ug/l		98
42) 1,2-Dichloroethane	8.677	62	74238	20.270	ug/l		100
43) Isopropyl Acetate	8.694	43	151601	20.094	ug/l		99
44) Trichloroethene	9.359	130	57110	19.946	ug/l		96
45) 1,2-Dichloropropane	9.630	63	59293	20.184	ug/l		97
46) Dibromomethane	9.712	93	40290	20.648	ug/l		98
47) Bromodichloromethane	9.894	83	80353	20.015	ug/l		98
48) Methyl methacrylate	9.682	41	70457	20.290	ug/l		97
49) 1,4-Dioxane	9.706	88	28231	446.886	ug/l	#	98
51) 4-Methyl-2-Pentanone	10.447	43	481741	106.066	ug/l		99
52) Toluene	10.635	92	148000	20.056	ug/l		98
53) t-1,3-Dichloropropene	10.841	75	87683	19.532	ug/l		99
54) cis-1,3-Dichloropropene	10.318	75	94315	19.636	ug/l		99
55) 1,1,2-Trichloroethane	11.018	97	57195	20.143	ug/l		99
56) Ethyl methacrylate	10.882	69	94829	20.968	ug/l		98
57) 1,3-Dichloropropane	11.165	76	98205	19.938	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.165	63	278986	103.426	ug/l		99
59) 2-Hexanone	11.206	43	303686	103.803	ug/l		95
60) Dibromochloromethane	11.359	129	59961	20.268	ug/l		99
61) 1,2-Dibromoethane	11.471	107	59139	20.320	ug/l		97
64) Tetrachloroethene	11.106	164	45374	19.742	ug/l		96
65) Chlorobenzene	11.894	112	160803	20.076	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.959	131	52069	20.223	ug/l		99
67) Ethyl Benzene	11.965	91	277087	20.083	ug/l		98
68) m/p-Xylenes	12.071	106	215378	40.780	ug/l		100
69) o-Xylene	12.400	106	102050	20.175	ug/l		98
70) Styrene	12.412	104	178061	20.572	ug/l		99
71) Bromoform	12.576	173	40070	21.004	ug/l	#	99
73) Isopropylbenzene	12.694	105	264442	20.035	ug/l		100
74) N-amyl acetate	12.523	43	86003	19.633	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.941	83	92264	20.634	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	122897	28.448	ug/l		69
77) Bromobenzene	12.982	156	60877	20.111	ug/l		98
78) n-propylbenzene	13.035	91	322436	20.102	ug/l		100
79) 2-Chlorotoluene	13.123	91	193774	20.144	ug/l		100
80) 1,3,5-Trimethylbenzene	13.170	105	219937	20.183	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	37808	20.209	ug/l		92
82) 4-Chlorotoluene	13.223	91	193544	19.885	ug/l		99
83) tert-Butylbenzene	13.435	119	198303	19.880	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	221990	20.315	ug/l		100
85) sec-Butylbenzene	13.617	105	292563	20.196	ug/l		100
86) p-Isopropyltoluene	13.729	119	240682	20.099	ug/l		100
87) 1,3-Dichlorobenzene	13.735	146	120099	20.166	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	120102	19.780	ug/l		97
89) n-Butylbenzene	14.053	91	227536	19.617	ug/l		100
90) Hexachloroethane	14.335	117	41202	20.299	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	115645	20.212	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	21025	19.661	ug/l		98
93) 1,2,4-Trichlorobenzene	15.388	180	71826	19.659	ug/l		98
94) Hexachlorobutadiene	15.500	225	27887	20.486	ug/l		97
95) Naphthalene	15.641	128	272584	20.043	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	71929	19.815	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086864.D
Acq On : 06 Jun 2025 13:40
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Jun 07 01:56:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

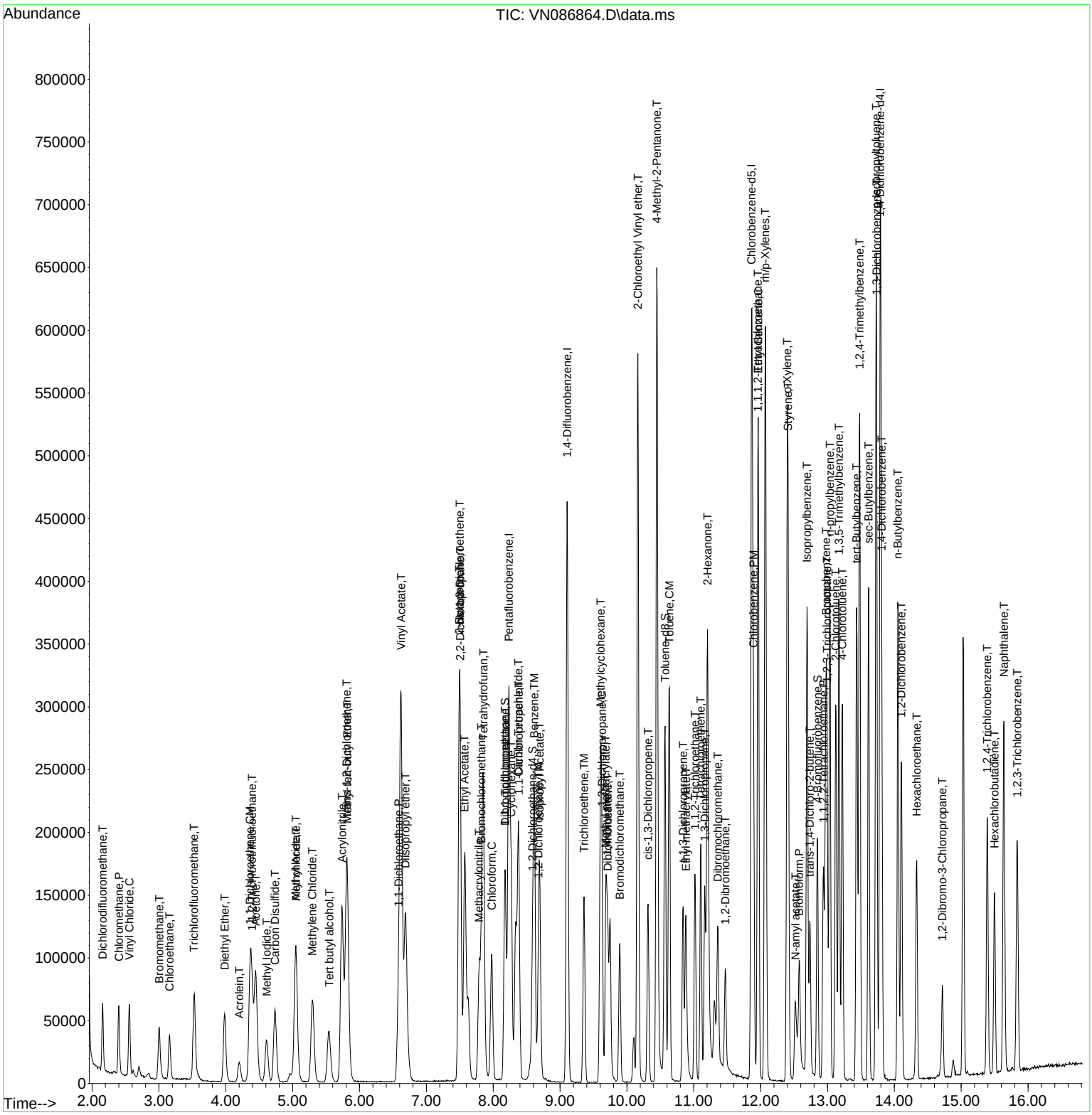
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

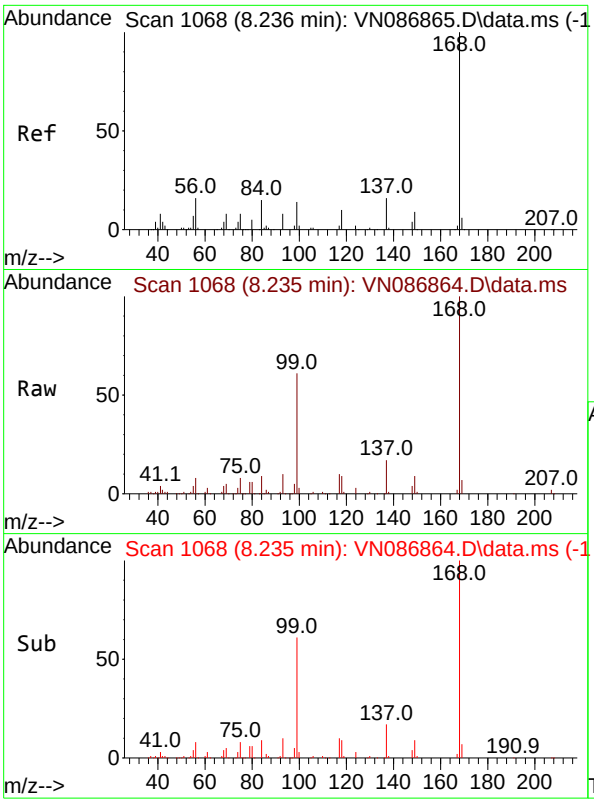
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086864.D
Acq On : 06 Jun 2025 13:40
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Quant Time: Jun 07 01:56:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration



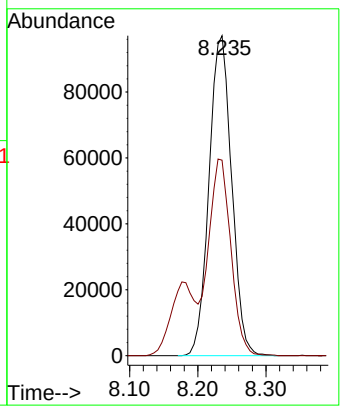


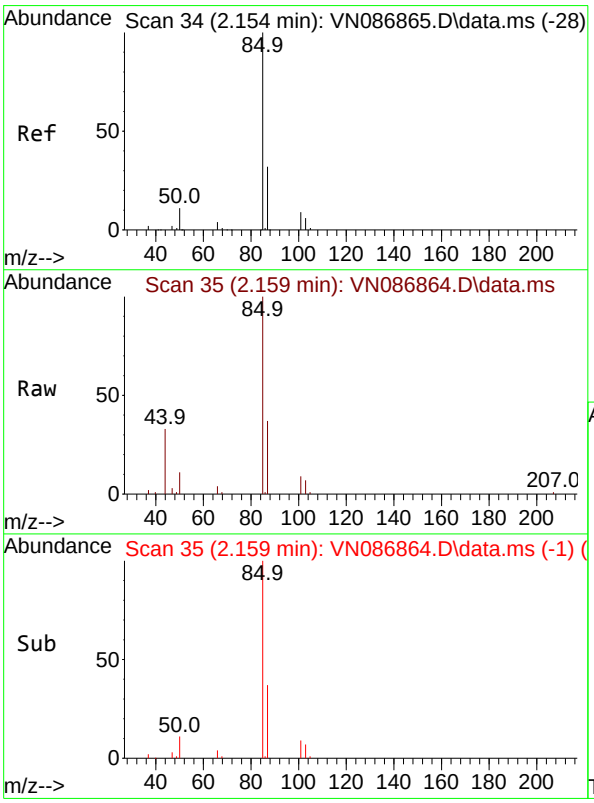
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 224006

Ion	Ratio	Lower	Upper
168	100		
99	61.1	49.1	73.7

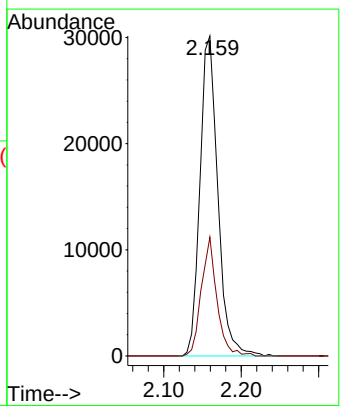


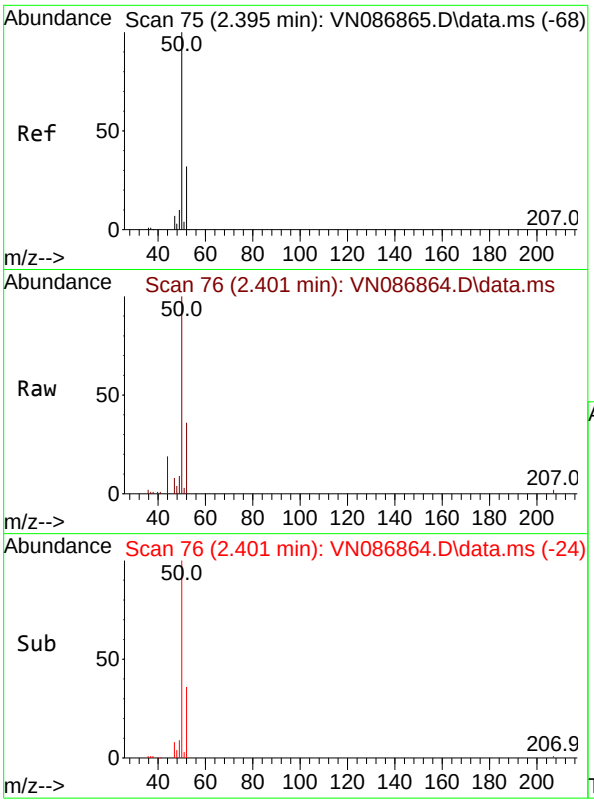


#2
Dichlorodifluoromethane
Concen: 21.605 ug/l
RT: 2.159 min Scan# 35
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 85 Resp: 48254

Ion	Ratio	Lower	Upper
85	100		
87	37.1	16.2	48.6



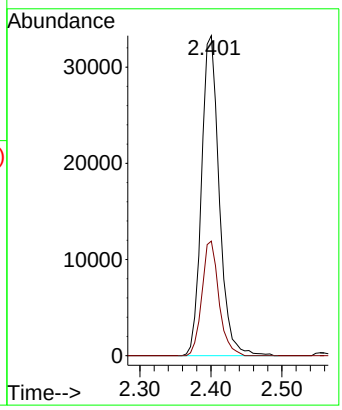


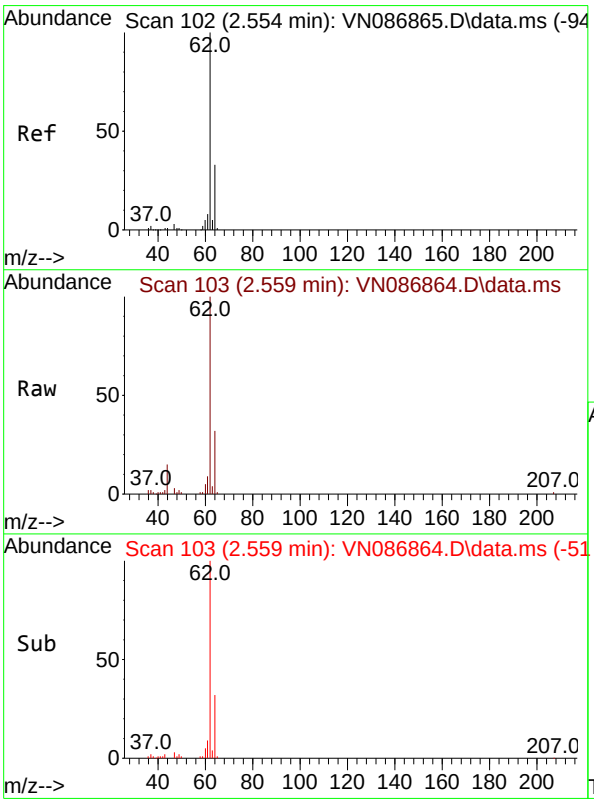
#3
Chloromethane
Concen: 20.033 ug/l
RT: 2.401 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 57778

Ion	Ratio	Lower	Upper
50	100		
52	35.8	25.7	38.5

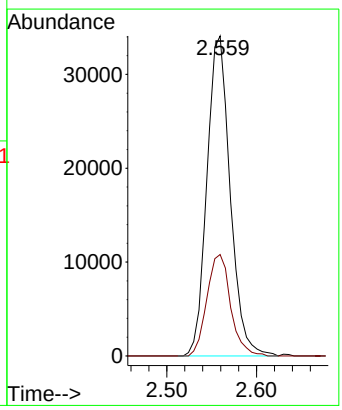


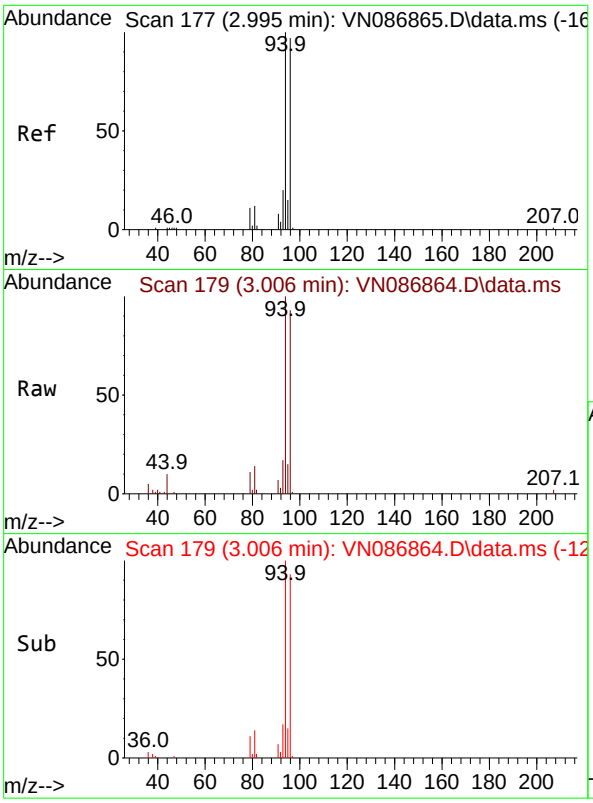


#4
Vinyl Chloride
Concen: 20.589 ug/l
RT: 2.559 min Scan# 103
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 62 Resp: 61254

Ion	Ratio	Lower	Upper
62	100		
64	31.7	26.0	39.0



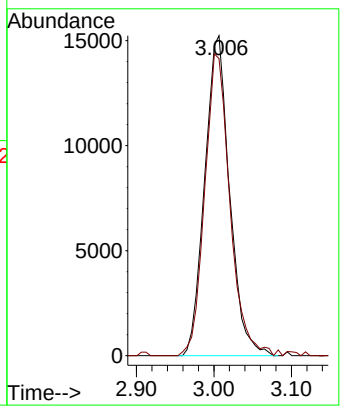


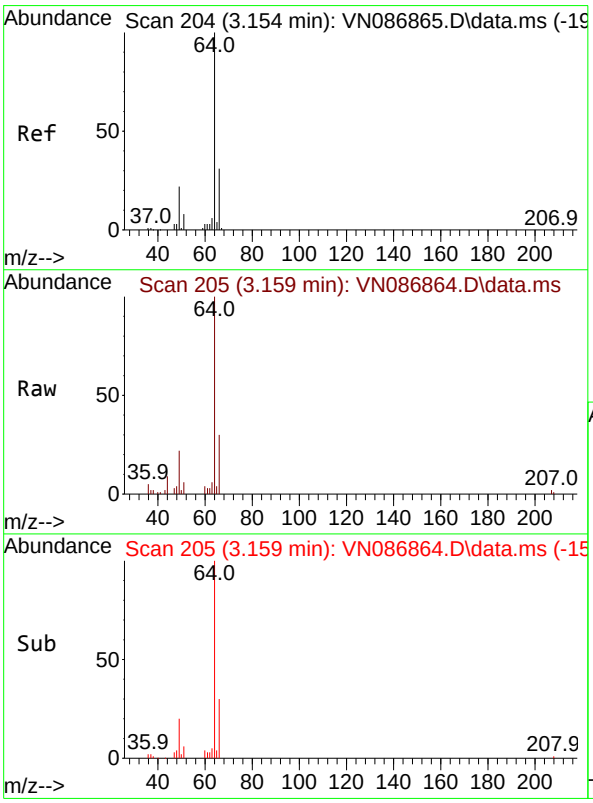
#5
Bromomethane
Concen: 20.435 ug/l
RT: 3.006 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 34022

Ion	Ratio	Lower	Upper
94	100		
96	92.9	77.9	116.9

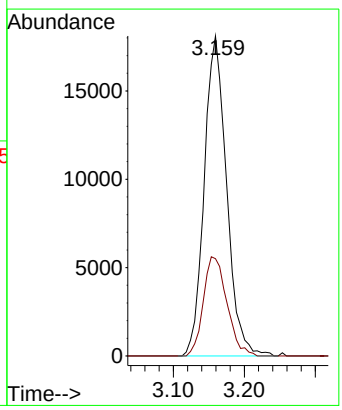


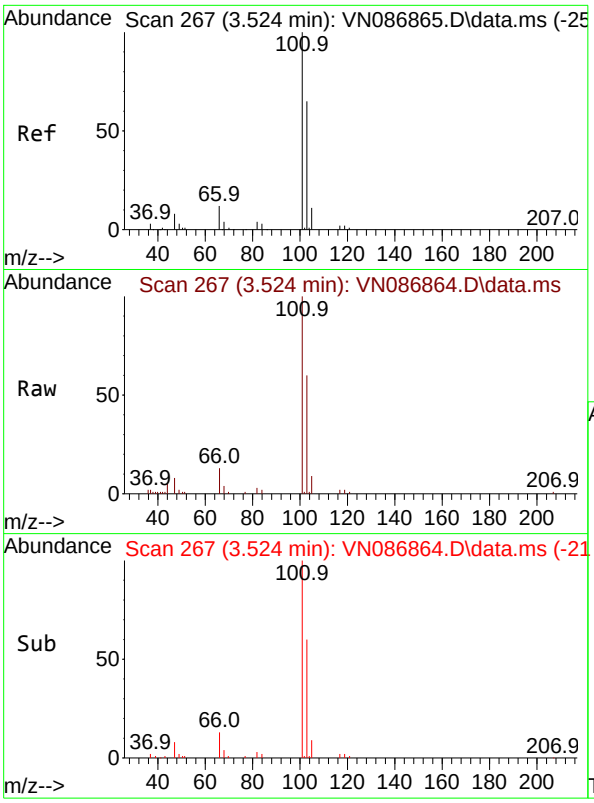


#6
Chloroethane
Concen: 20.619 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 64 Resp: 39625

Ion	Ratio	Lower	Upper
64	100		
66	30.4	24.6	36.8



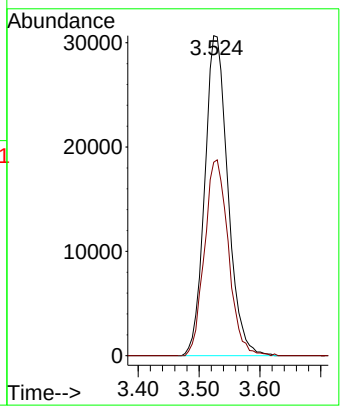


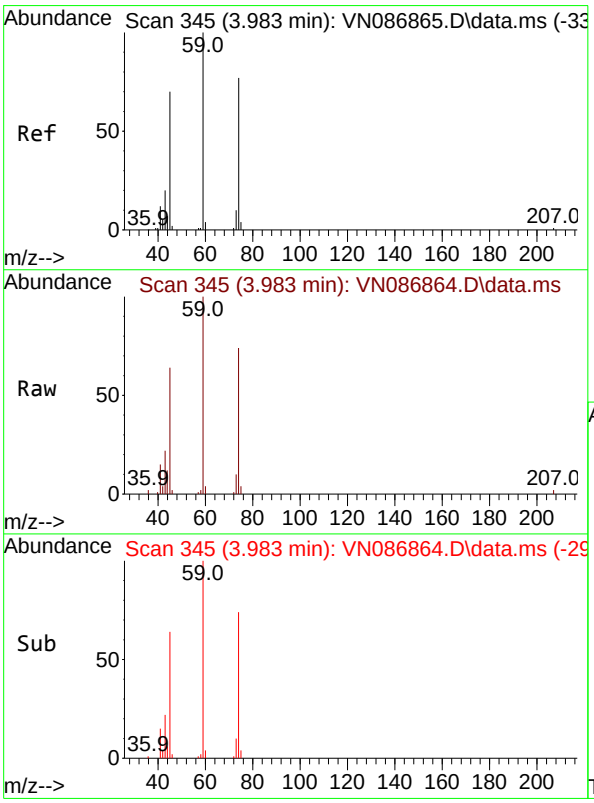
#7
Trichlorofluoromethane
Concen: 20.832 ug/l
RT: 3.524 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 80978

Ion	Ratio	Lower	Upper
101	100		
103	60.4	52.2	78.2

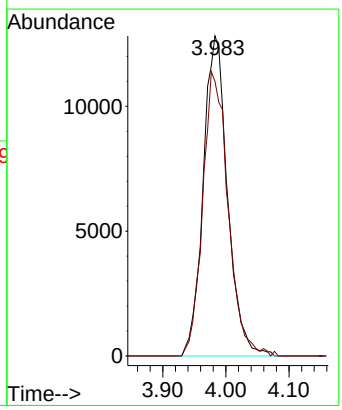


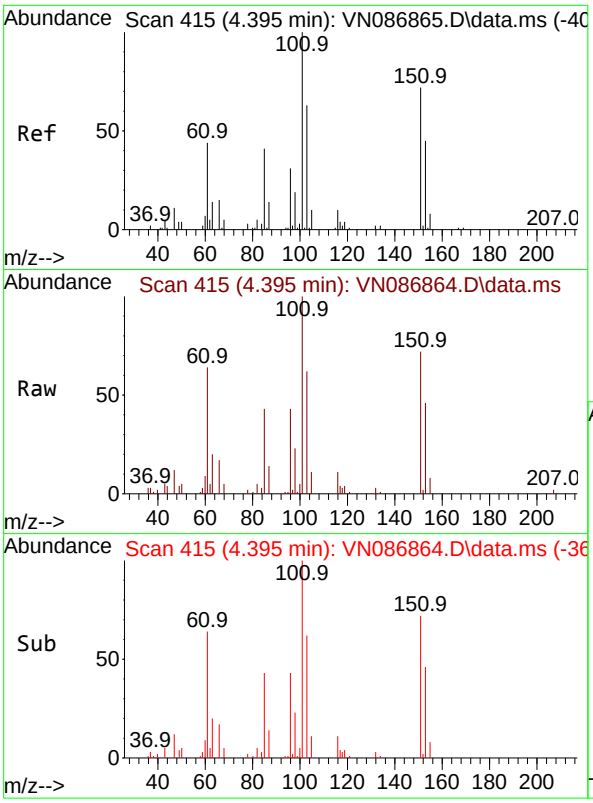


#8
Diethyl Ether
Concen: 20.245 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 74 Resp: 34288

Ion	Ratio	Lower	Upper
74	100		
45	92.9	45.5	136.5



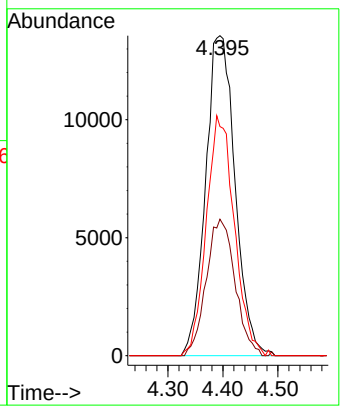


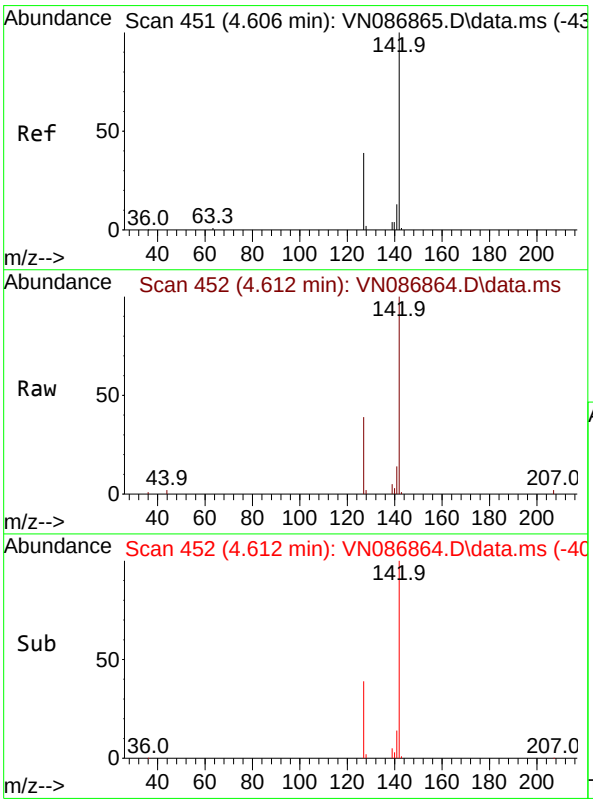
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.661 ug/l
RT: 4.395 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 50458

Ion	Ratio	Lower	Upper
101	100		
85	41.7	33.8	50.8
151	71.3	58.7	88.1

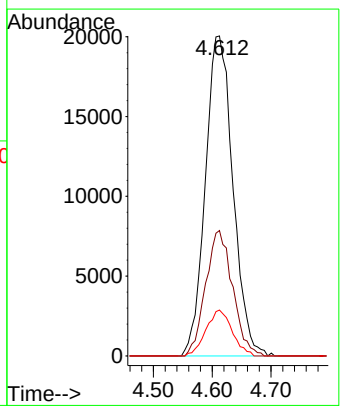


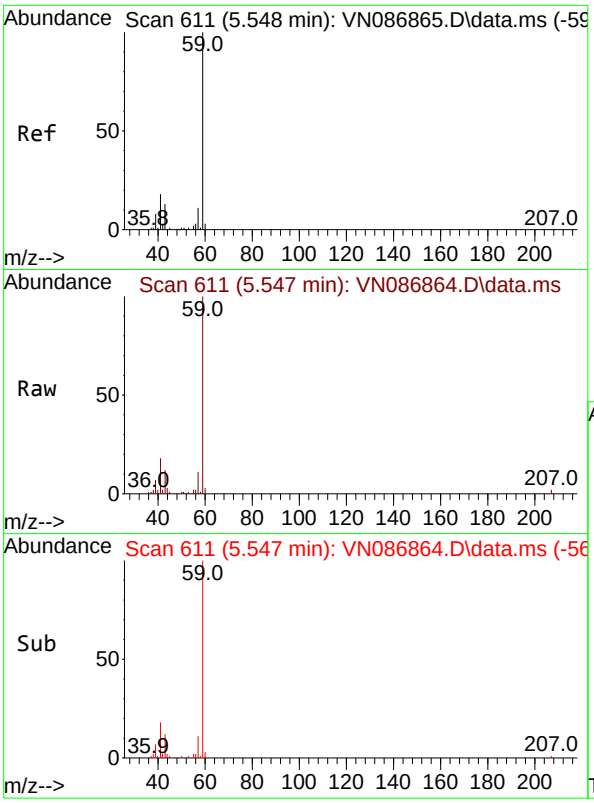


#10
Methyl Iodide
Concen: 20.646 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:142 Resp: 65360

Ion	Ratio	Lower	Upper
142	100		
127	39.2	30.9	46.3
141	14.3	10.4	15.6



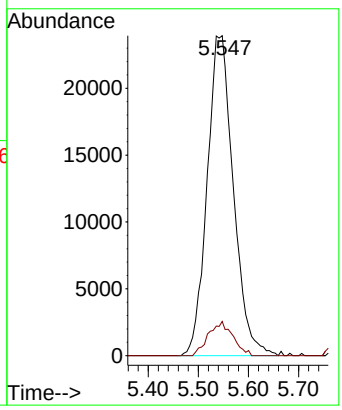


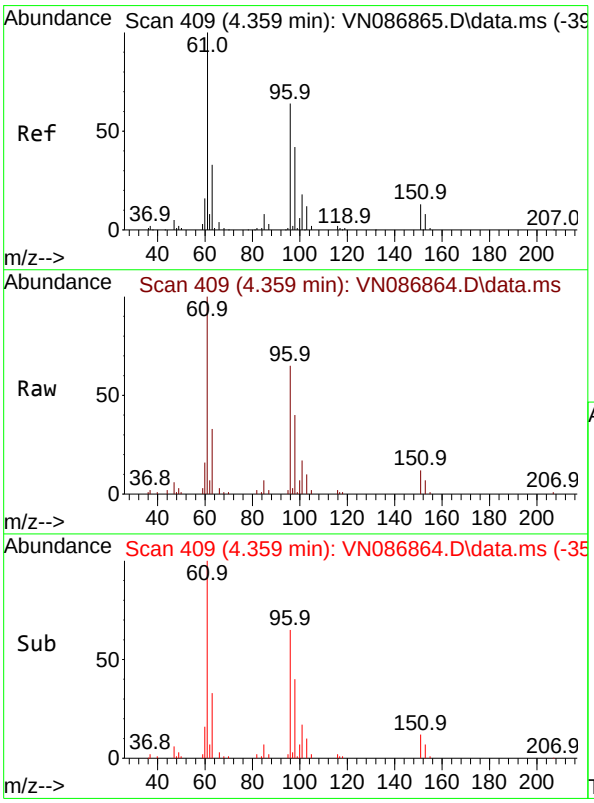
#11
Tert butyl alcohol
Concen: 107.031 ug/l
RT: 5.547 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 59 Resp: 87102

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1

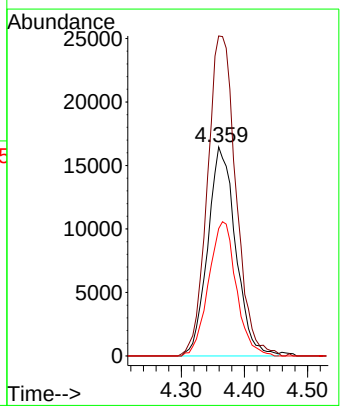


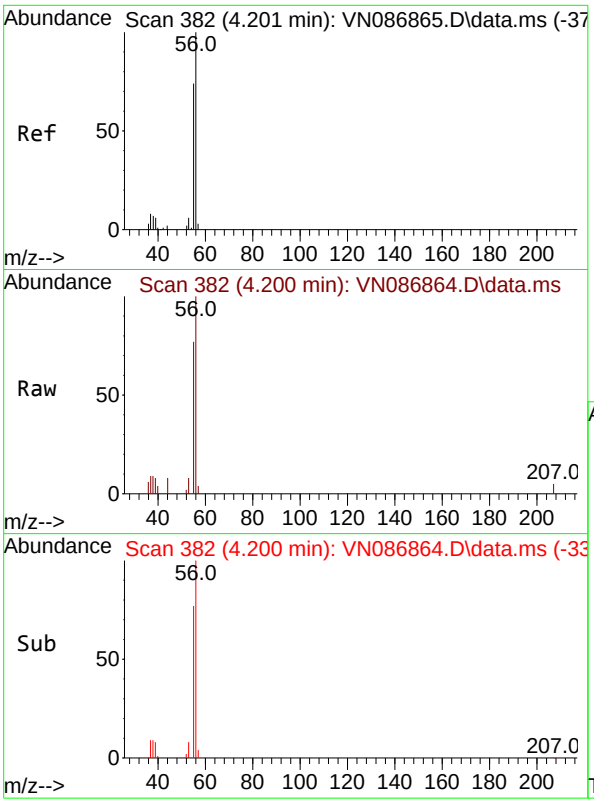


#12
1,1-Dichloroethene
Concen: 20.249 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 96 Resp: 50485

Ion	Ratio	Lower	Upper
96	100		
61	153.1	125.8	188.6
98	61.0	52.5	78.7



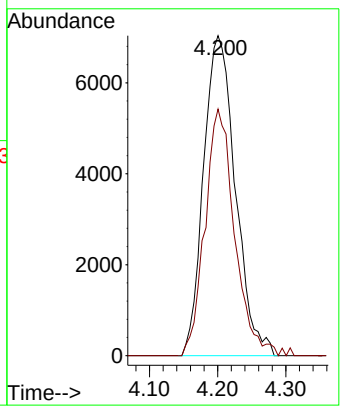


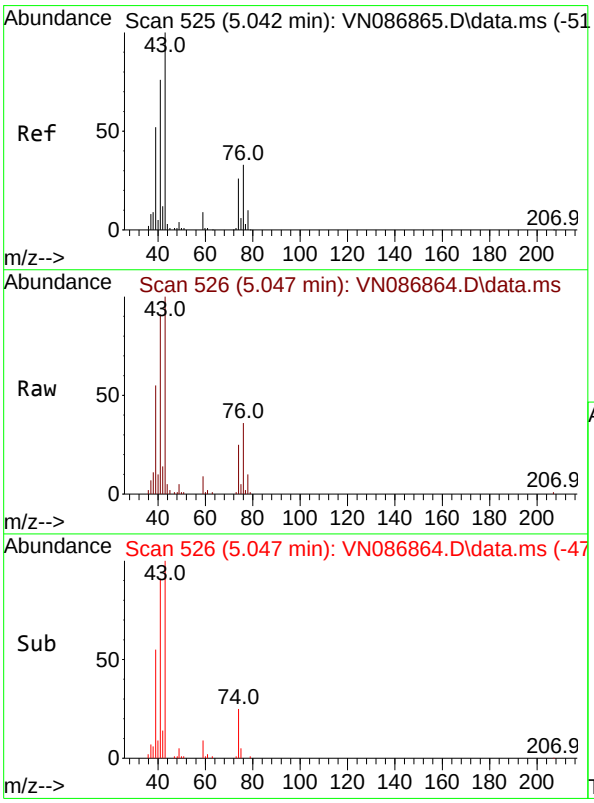
#13
Acrolein
Concen: 88.767 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 22866

Ion	Ratio	Lower	Upper
56	100		
55	71.6	55.6	83.4

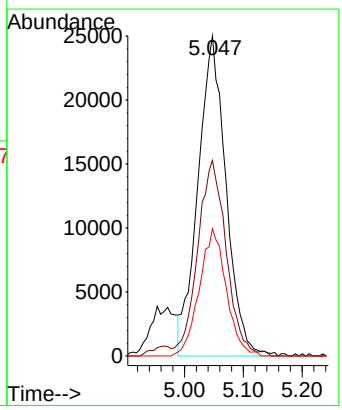


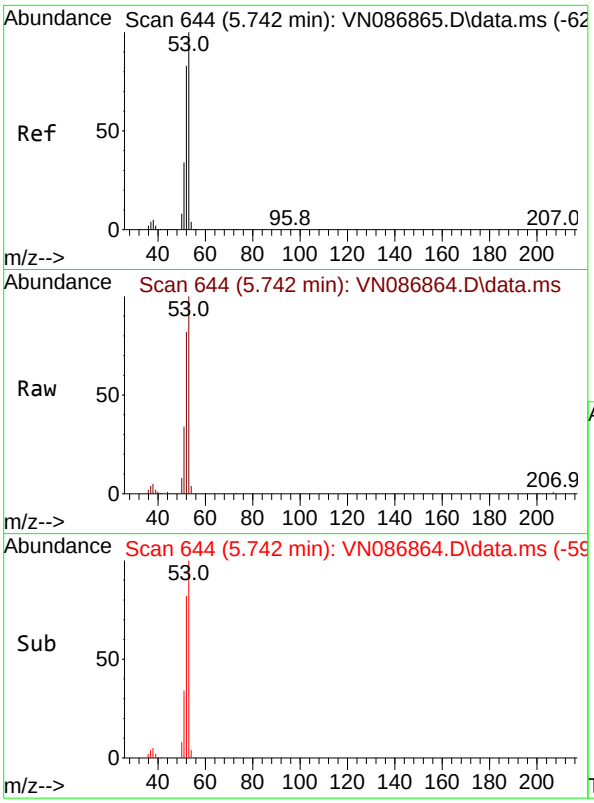


#14
Allyl chloride
Concen: 20.055 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 41 Resp: 82924

Ion	Ratio	Lower	Upper
41	100		
39	62.6	51.3	76.9
76	38.1	31.4	47.0



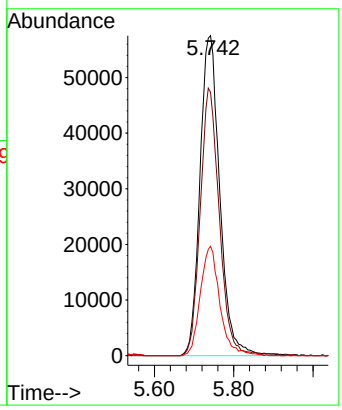


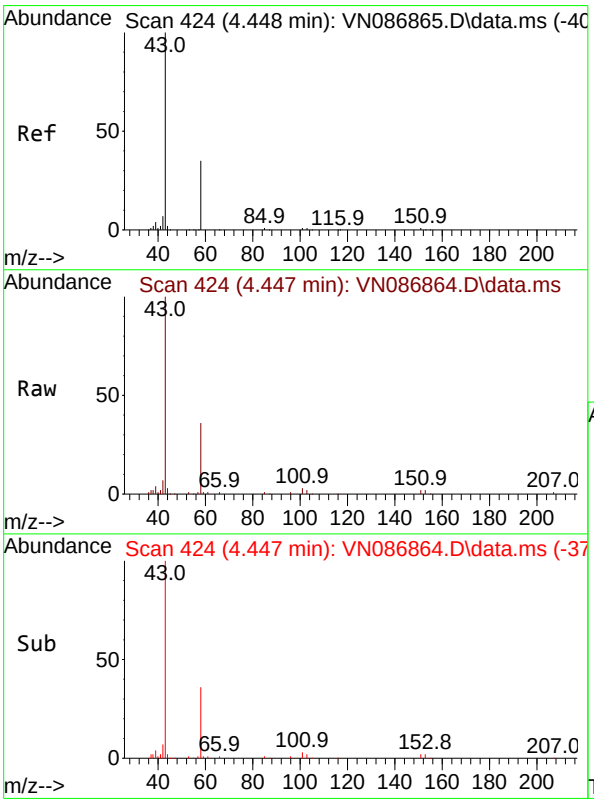
#15
Acrylonitrile
Concen: 104.881 ug/l
RT: 5.742 min Scan# 64
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 53 Resp: 199498

Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.0	97.6
51	33.7	27.2	40.8

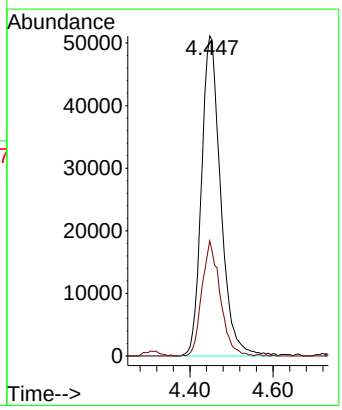


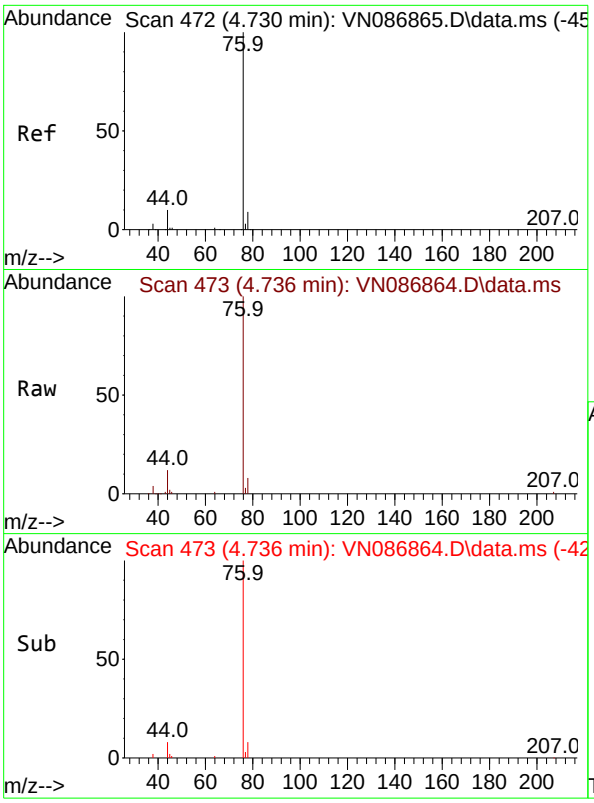


#16
Acetone
Concen: 103.099 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 43 Resp: 163979

Ion	Ratio	Lower	Upper
43	100		
58	35.9	28.0	42.0



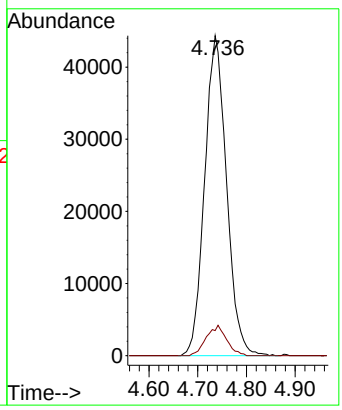


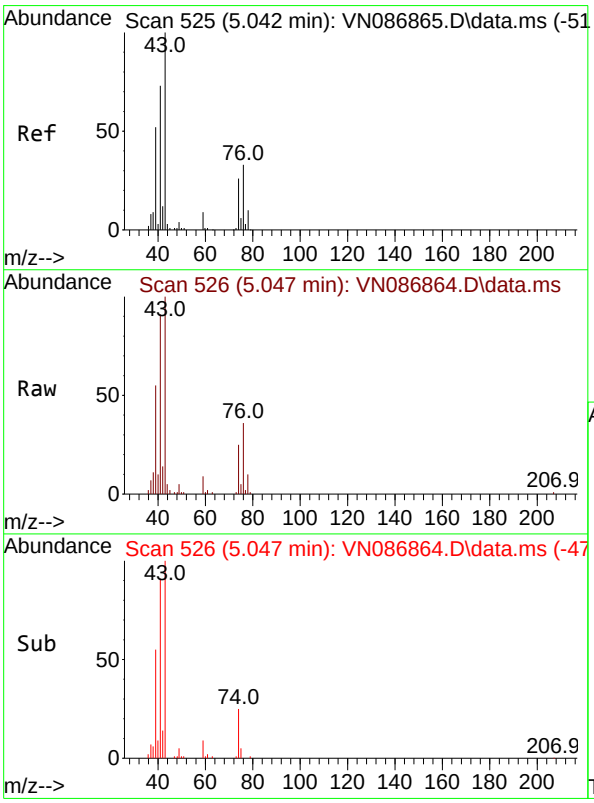
#17
Carbon Disulfide
Concen: 20.038 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 138195

Ion	Ratio	Lower	Upper
76	100		
78	7.8	7.3	10.9

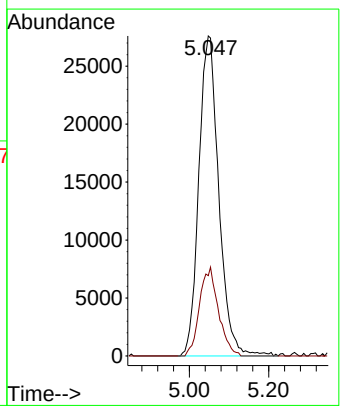


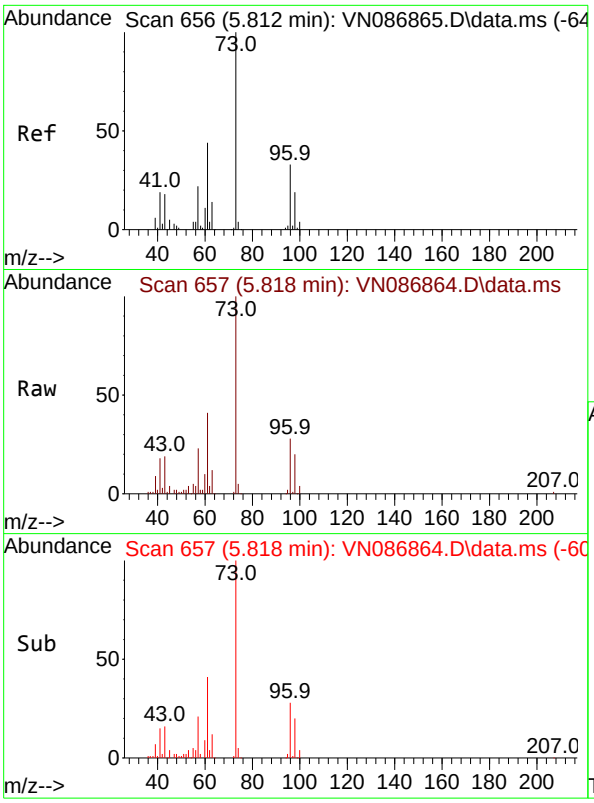


#18
Methyl Acetate
Concen: 20.830 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 43 Resp: 96547

Ion	Ratio	Lower	Upper
43	100		
74	26.2	20.7	31.1



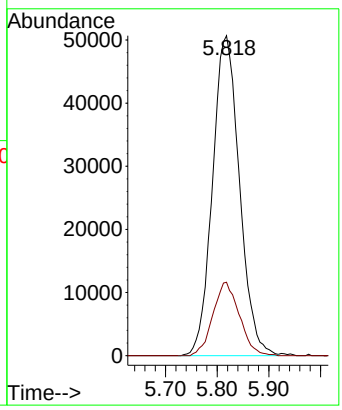


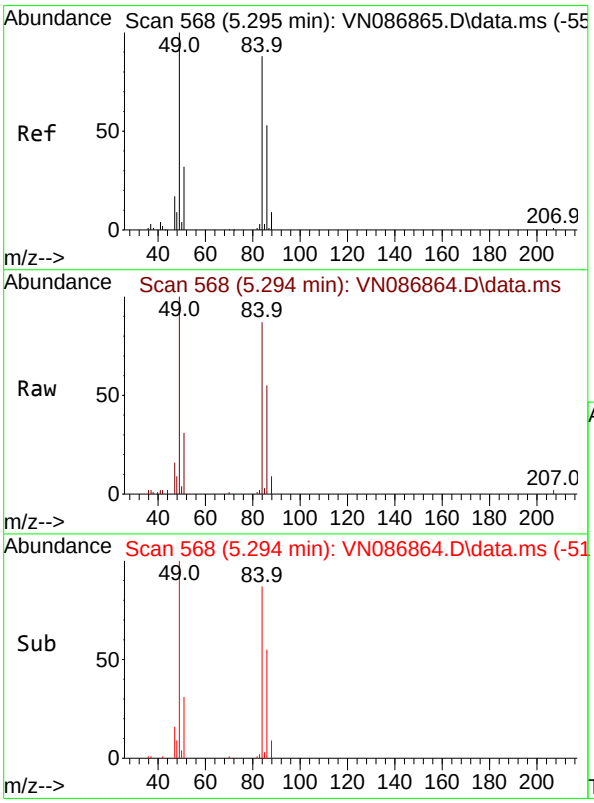
#19
Methyl tert-butyl Ether
Concen: 20.358 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 183780

Ion	Ratio	Lower	Upper
73	100		
57	22.9	17.4	26.2

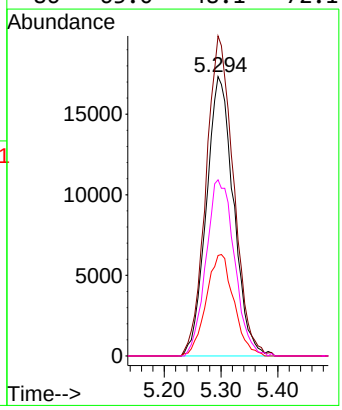


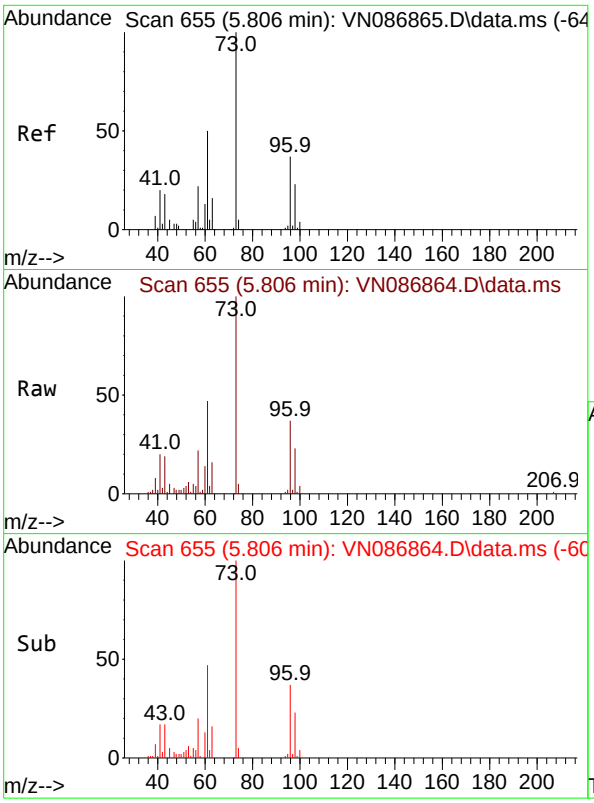


#20
Methylene Chloride
Concen: 19.348 ug/l
RT: 5.294 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 84 Resp: 57611

Ion	Ratio	Lower	Upper
84	100		
49	114.5	90.5	135.7
51	35.9	28.5	42.7
86	63.0	48.1	72.1



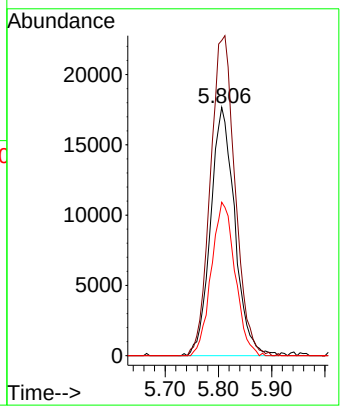


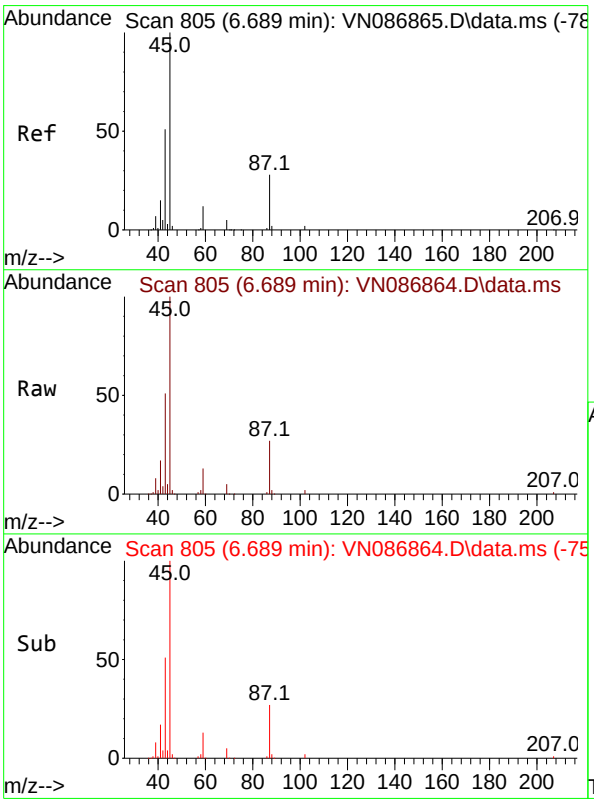
#21
trans-1,2-Dichloroethene
Concen: 20.059 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 55643

Ion	Ratio	Lower	Upper
96	100		
61	126.9	109.2	163.8
98	61.8	49.8	74.8

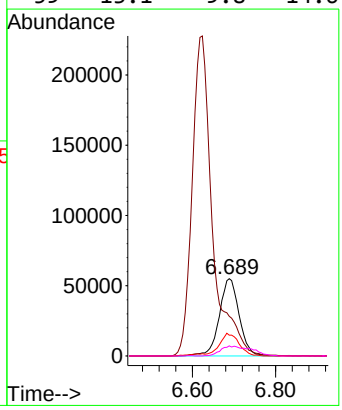


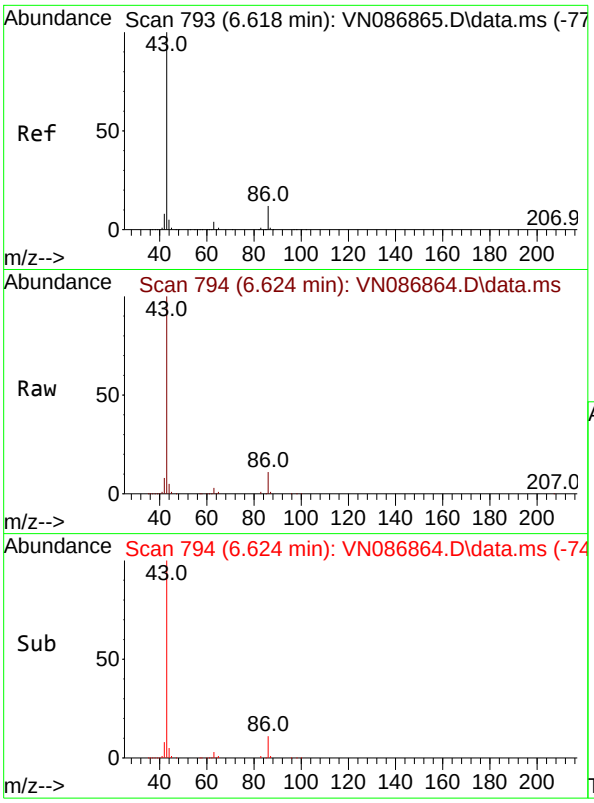


#22
Diisopropyl ether
Concen: 20.935 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 45 Resp: 182472

Ion	Ratio	Lower	Upper
45	100		
43	50.7	41.9	62.9
87	27.0	22.4	33.6
59	13.1	9.8	14.6



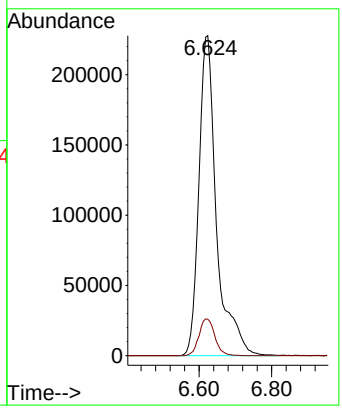


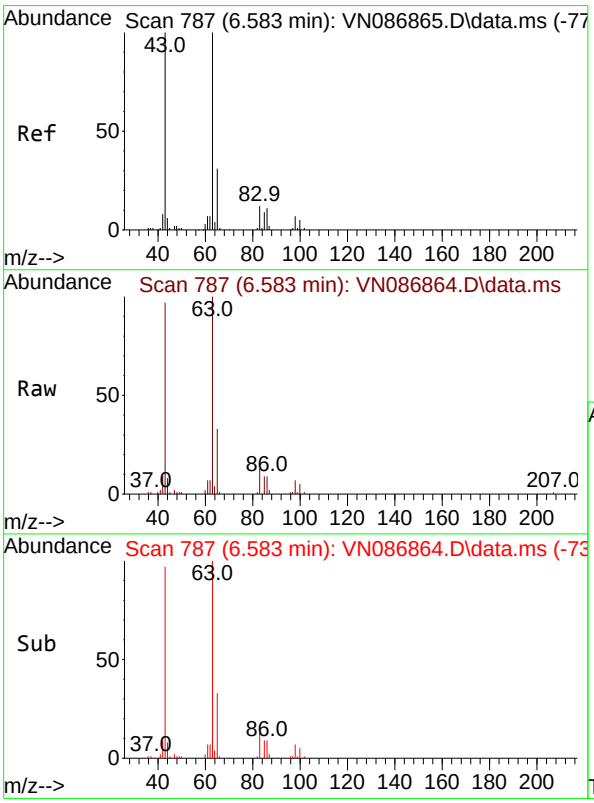
#23
Vinyl Acetate
Concen: 104.365 ug/l
RT: 6.624 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 768556

Ion	Ratio	Lower	Upper
43	100		
86	11.4	9.5	14.3

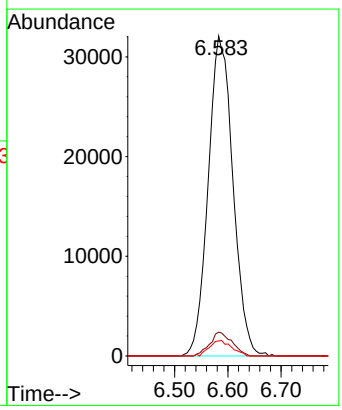


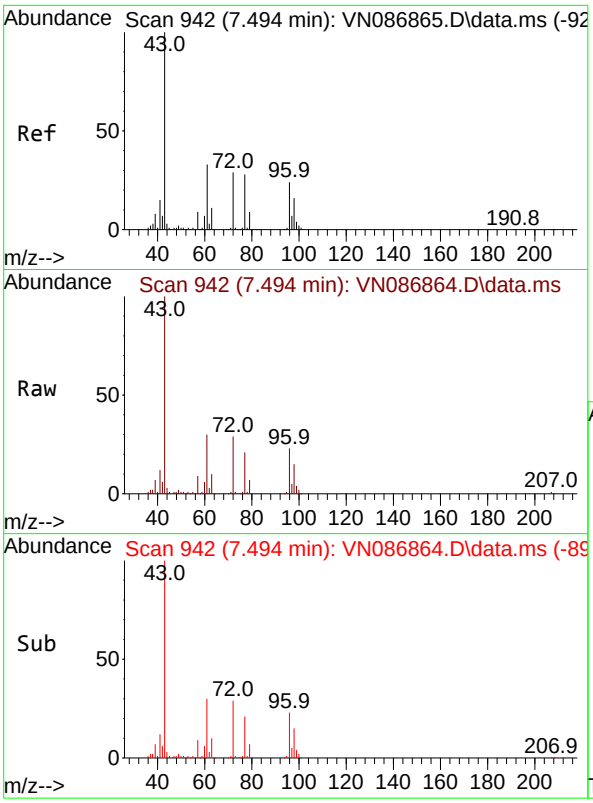


#24
1,1-Dichloroethane
Concen: 20.650 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 63 Resp: 103578

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.6	10.8
100	4.7	2.6	7.8



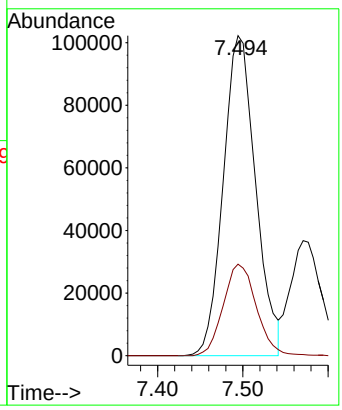


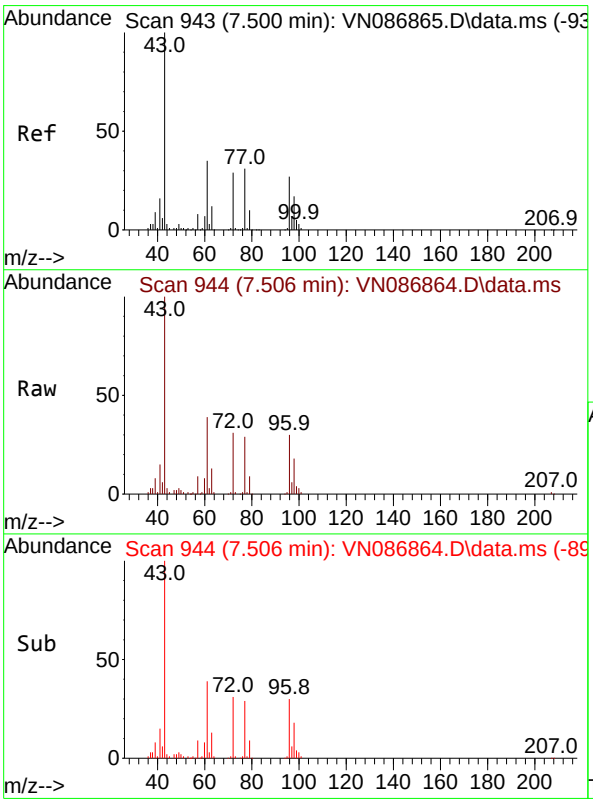
#25
2-Butanone
Concen: 104.621 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 270477

Ion	Ratio	Lower	Upper
43	100		
72	28.6	23.0	34.6

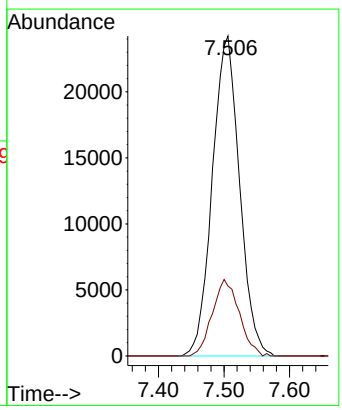


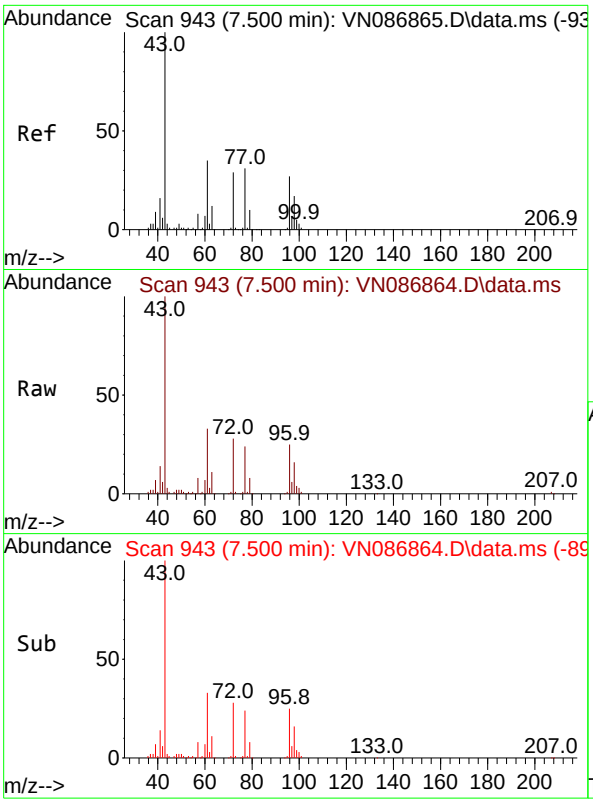


#26
2,2-Dichloropropane
Concen: 17.862 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 77 Resp: 69692

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.6	34.7



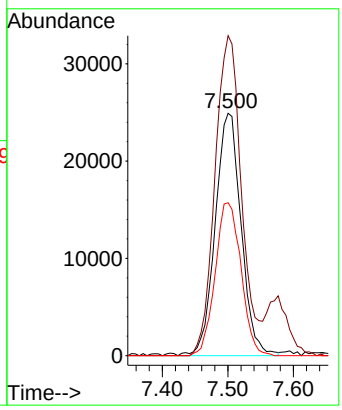


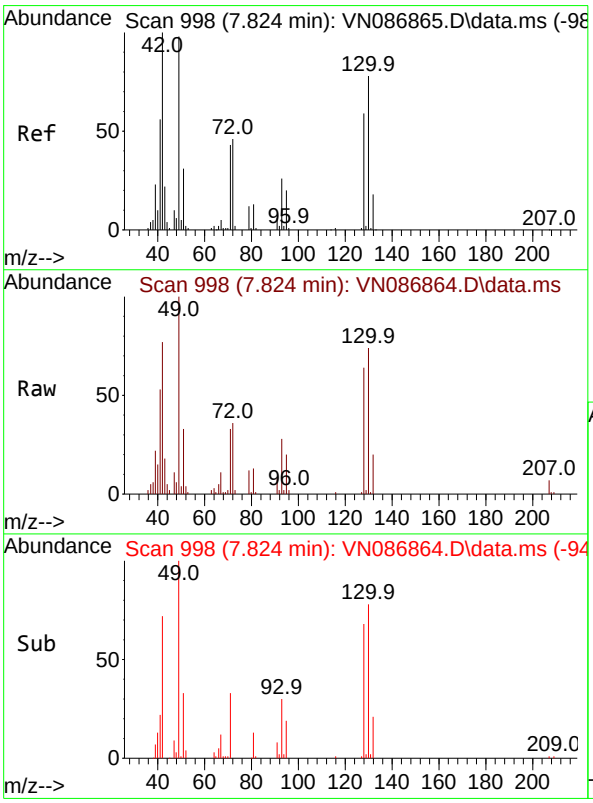
#27
cis-1,2-Dichloroethene
Concen: 20.585 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 68292

Ion	Ratio	Lower	Upper
96	100		
61	135.5	0.0	278.0
98	63.0	0.0	128.2

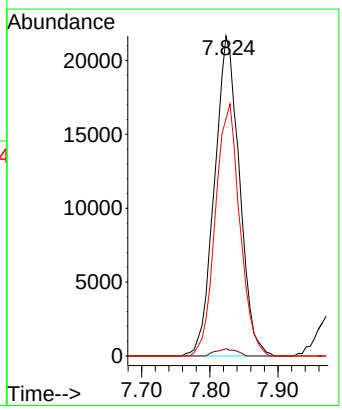


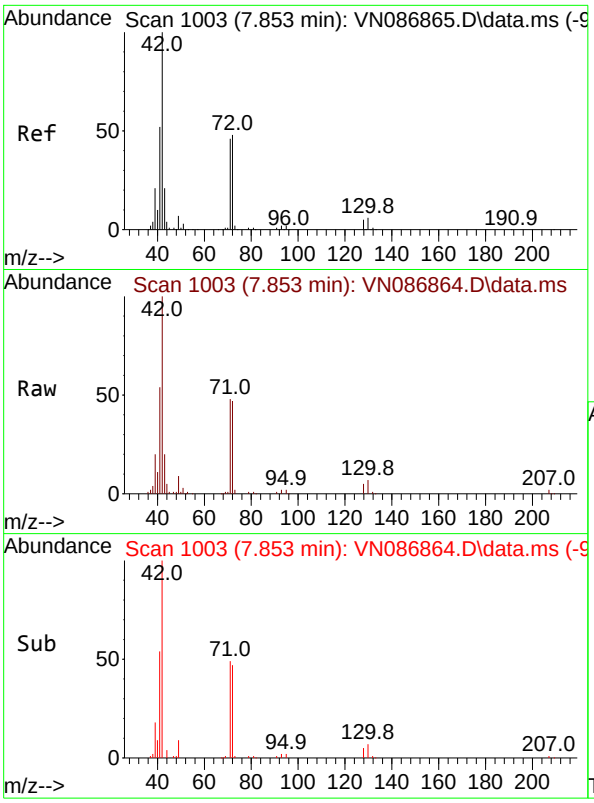


#28
Bromochloromethane
Concen: 22.381 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 49 Resp: 55196

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	77.1	62.2	93.2



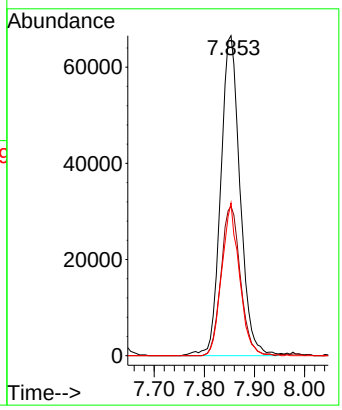


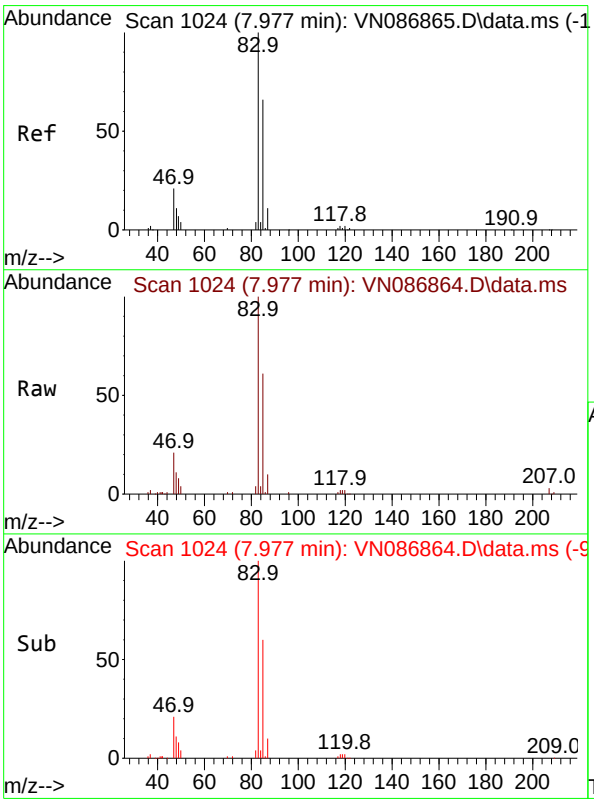
#29
Tetrahydrofuran
Concen: 106.031 ug/l
RT: 7.853 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 42 Resp: 178571

Ion	Ratio	Lower	Upper
42	100		
72	46.6	37.8	56.6
71	43.5	35.6	53.4

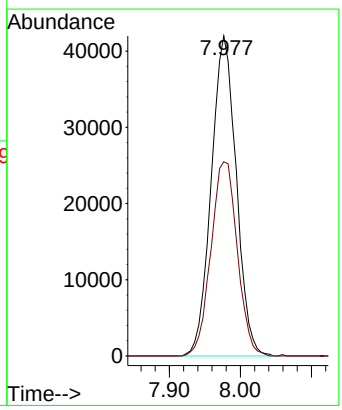


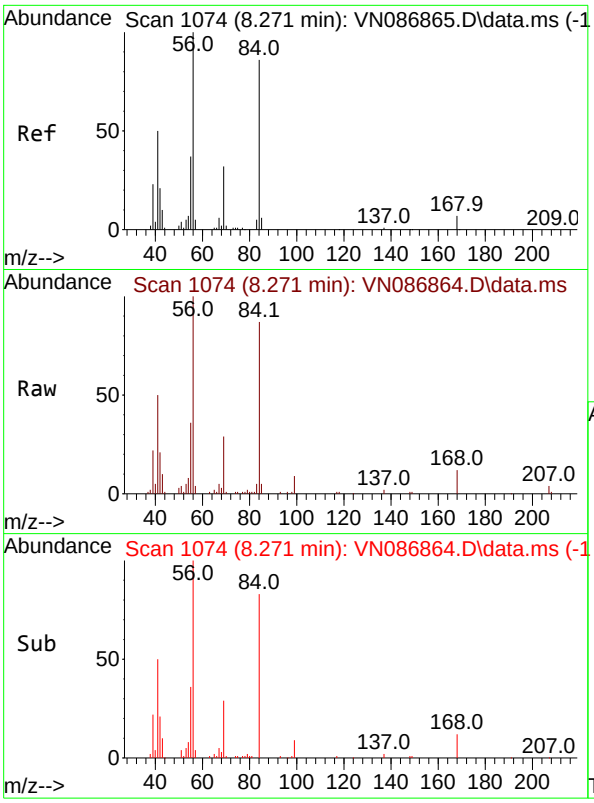


#30
Chloroform
Concen: 20.485 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 83 Resp: 102615

Ion	Ratio	Lower	Upper
83	100		
85	60.7	52.9	79.3



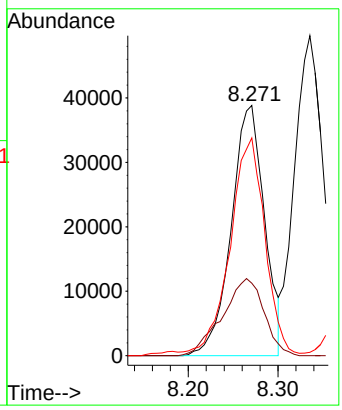


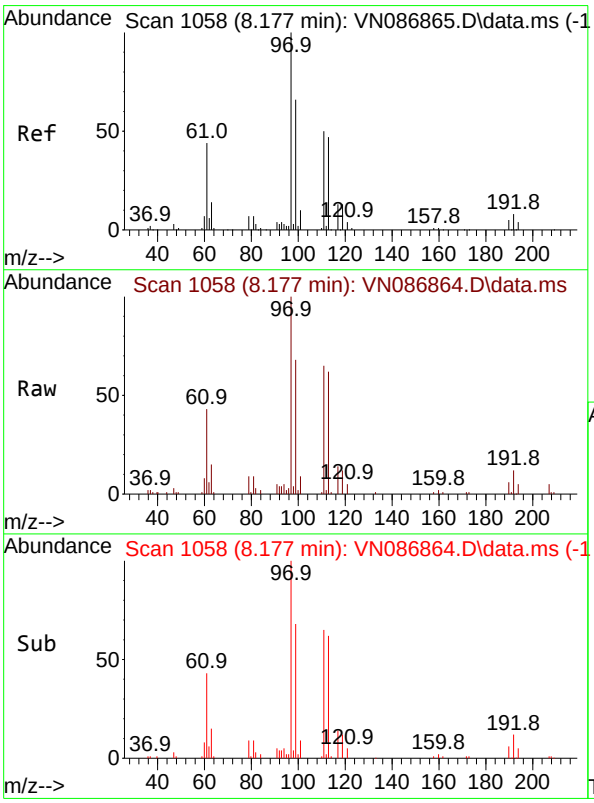
#31
Cyclohexane
Concen: 20.563 ug/l
RT: 8.271 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 100026

Ion	Ratio	Lower	Upper
56	100		
69	29.0	25.4	38.0
84	85.6	68.8	103.2

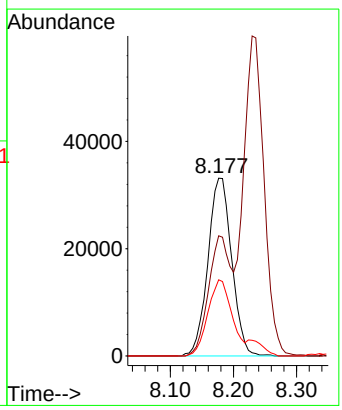


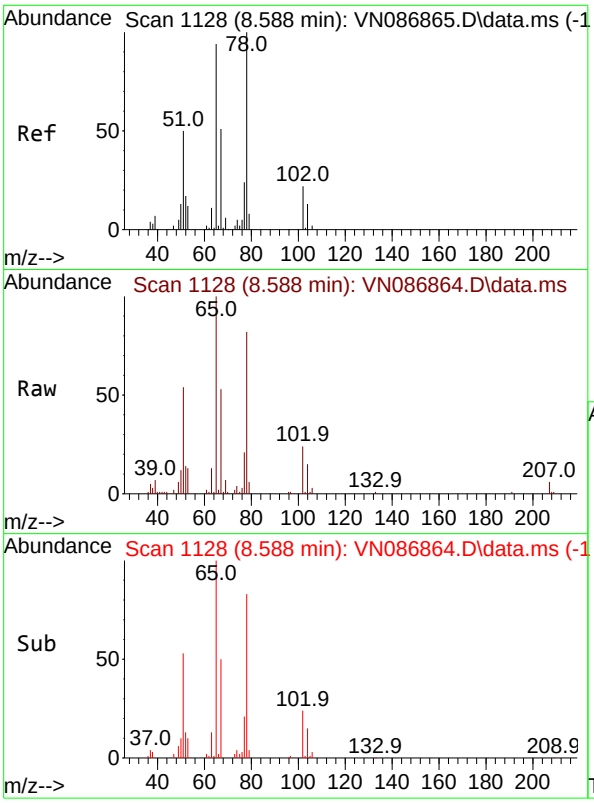


#32
1,1,1-Trichloroethane
Concen: 20.376 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 97 Resp: 86810

Ion	Ratio	Lower	Upper
97	100		
99	63.8	52.0	78.0
61	43.3	35.9	53.9



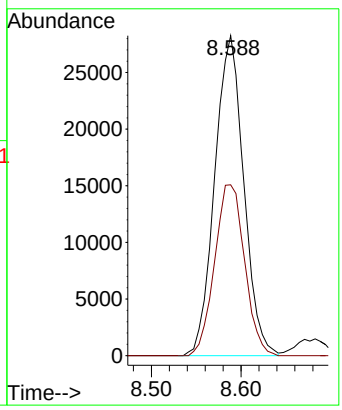


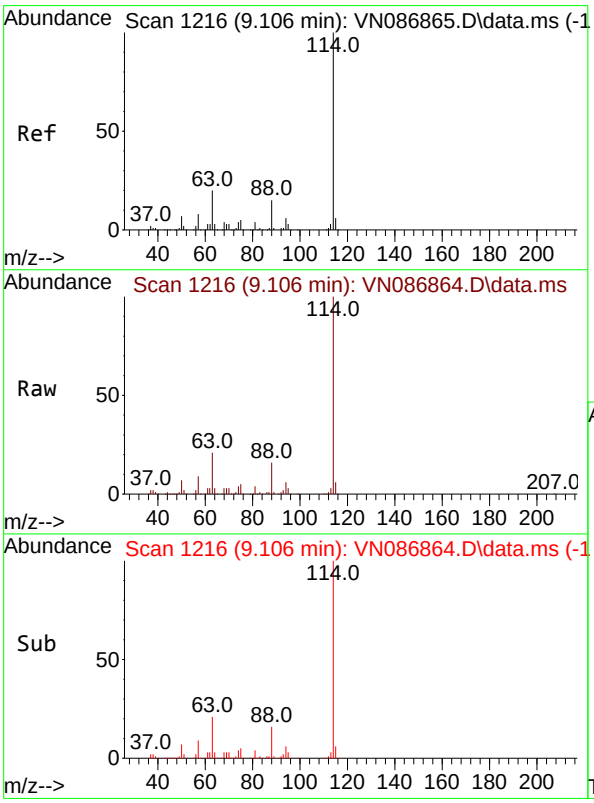
#33
1,2-Dichloroethane-d4
Concen: 21.136 ug/l
RT: 8.588 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 65 Resp: 63390

Ion	Ratio	Lower	Upper
65	100		
67	55.3	0.0	105.6

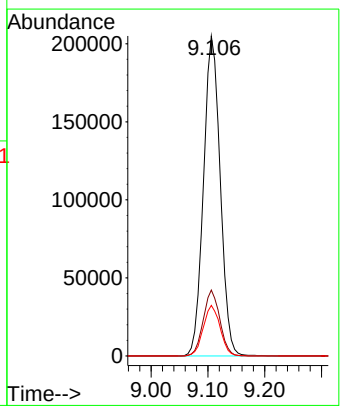


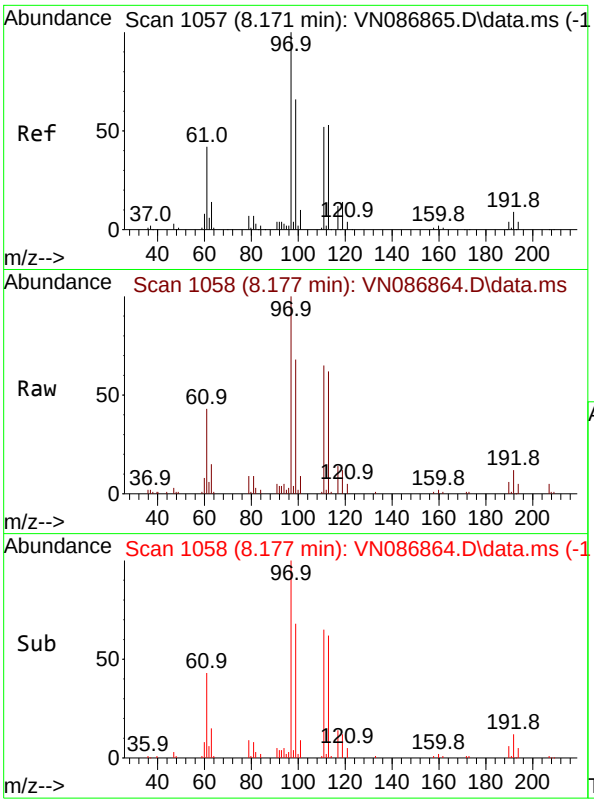


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:114 Resp: 418154

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	39.6
88	15.8	0.0	30.2



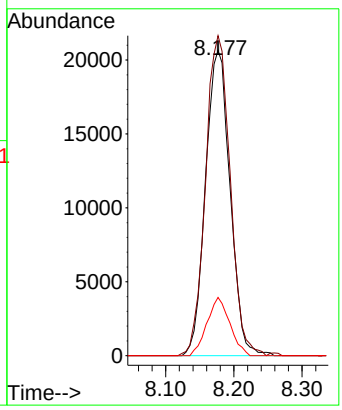


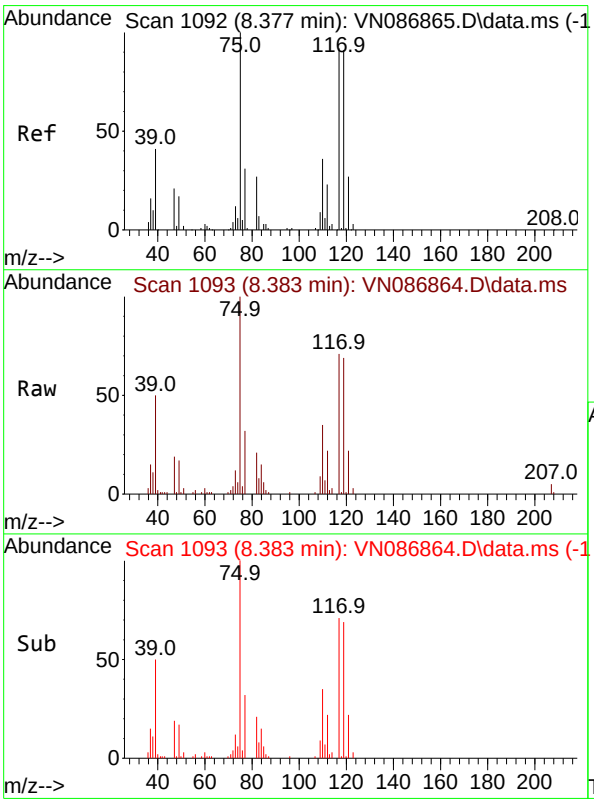
#35
Dibromofluoromethane
Concen: 20.902 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:113 Resp: 51797

Ion	Ratio	Lower	Upper
113	100		
111	105.1	84.2	126.2
192	17.7	14.2	21.4

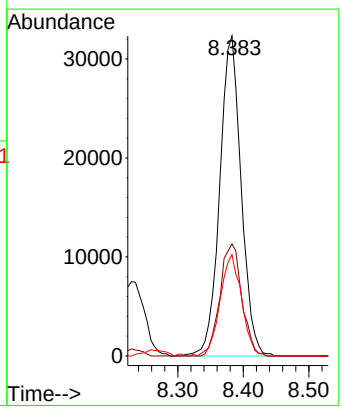


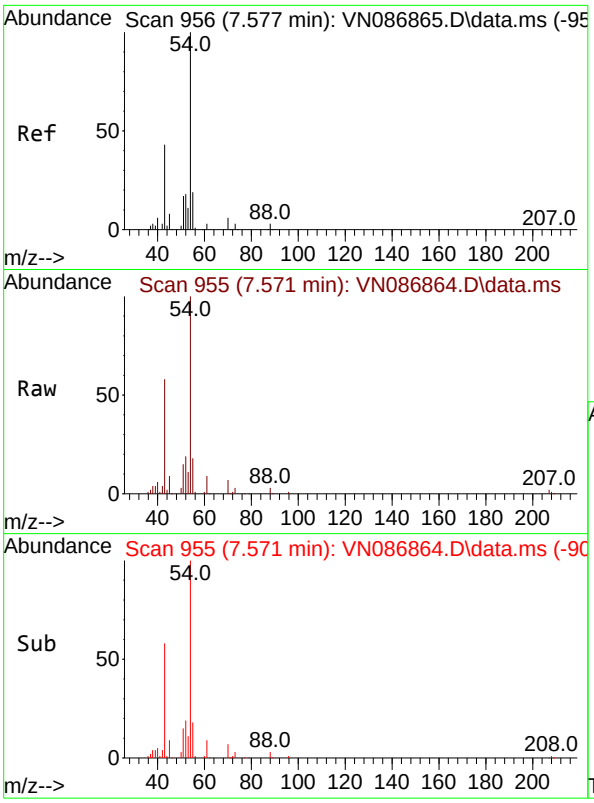


#36
1,1-Dichloropropene
Concen: 19.838 ug/l
RT: 8.383 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 75 Resp: 73252

Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.6	52.9
77	31.8	25.3	37.9



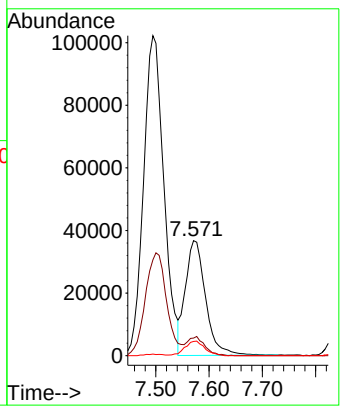


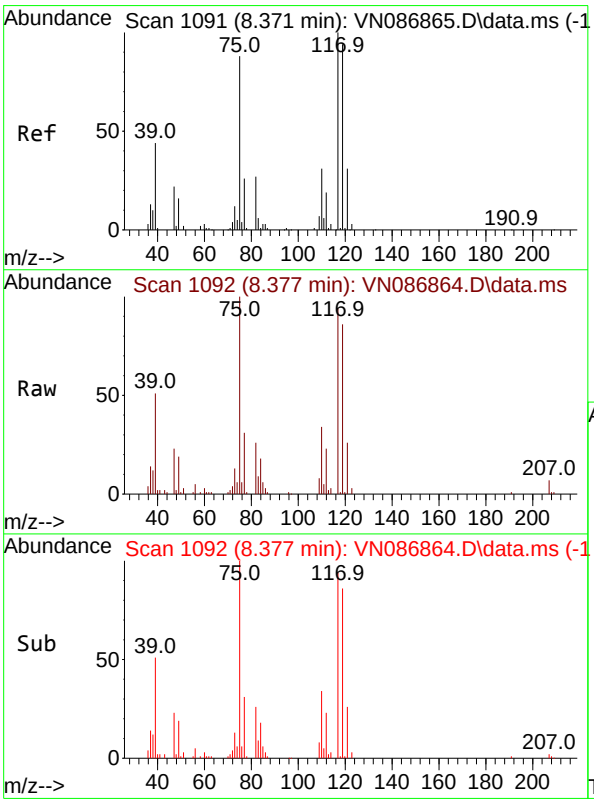
#37
Ethyl Acetate
Concen: 20.522 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 96467

Ion	Ratio	Lower	Upper
43	100		
61	13.9	12.1	18.1
70	12.6	9.8	14.6

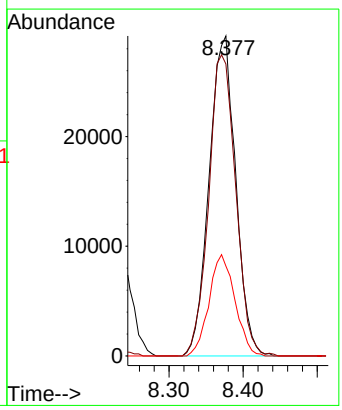


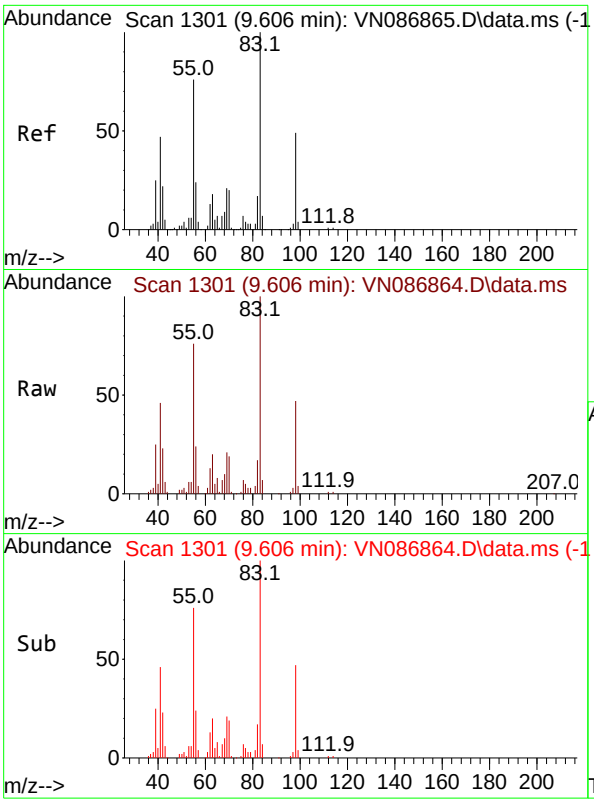


#38
Carbon Tetrachloride
Concen: 20.034 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:117 Resp: 72628

Ion	Ratio	Lower	Upper
117	100		
119	91.3	75.0	112.6
121	28.1	24.9	37.3



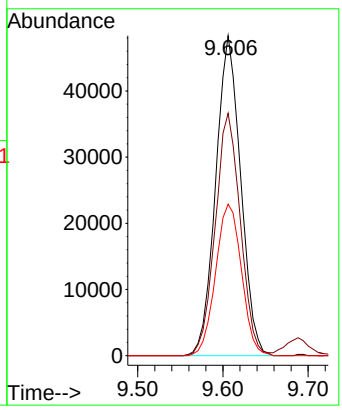


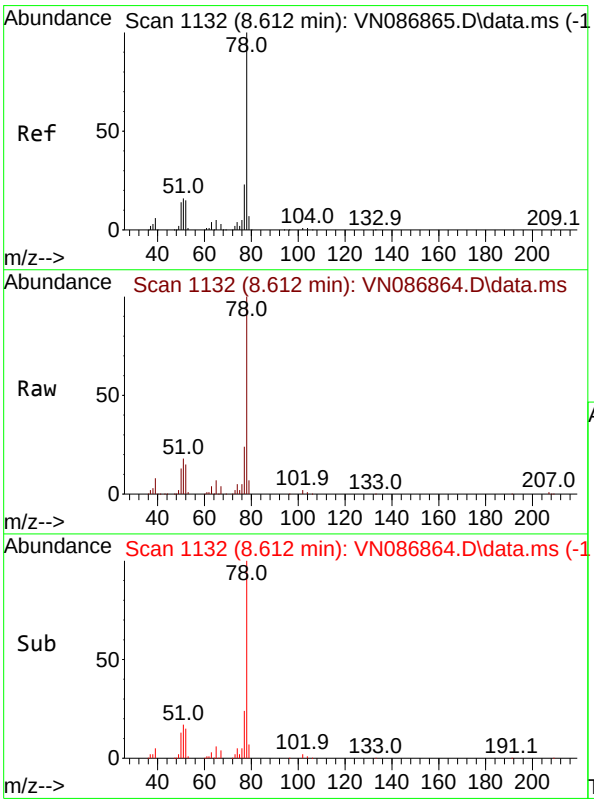
#39
Methylcyclohexane
Concen: 19.455 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 98425

Ion	Ratio	Lower	Upper
83	100		
55	75.7	61.0	91.6
98	47.4	38.9	58.3

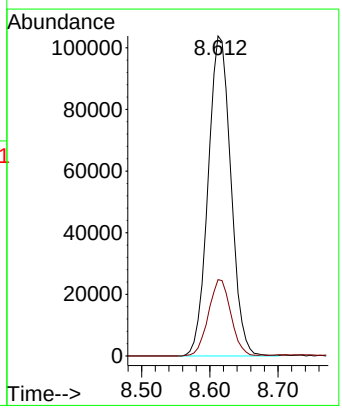


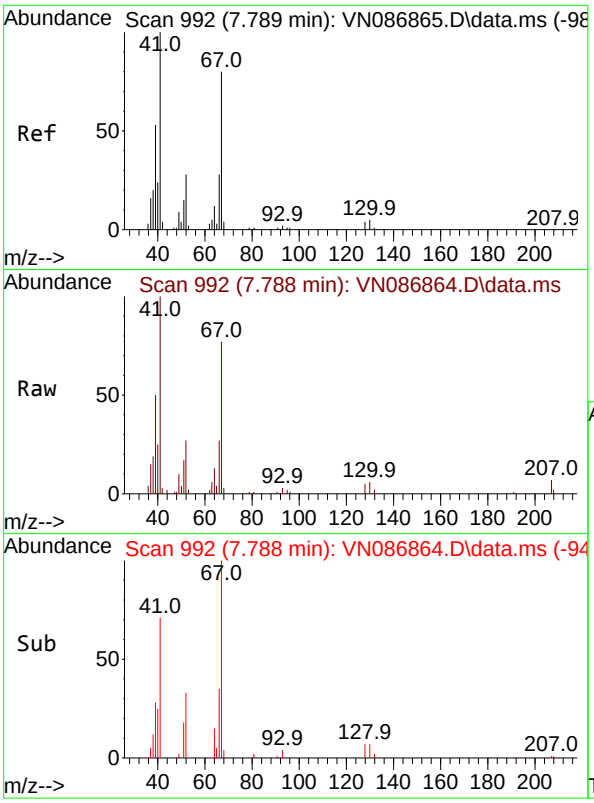


#40
Benzene
Concen: 19.996 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 78 Resp: 241444

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.7	28.1



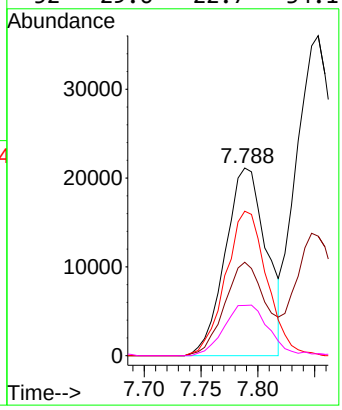


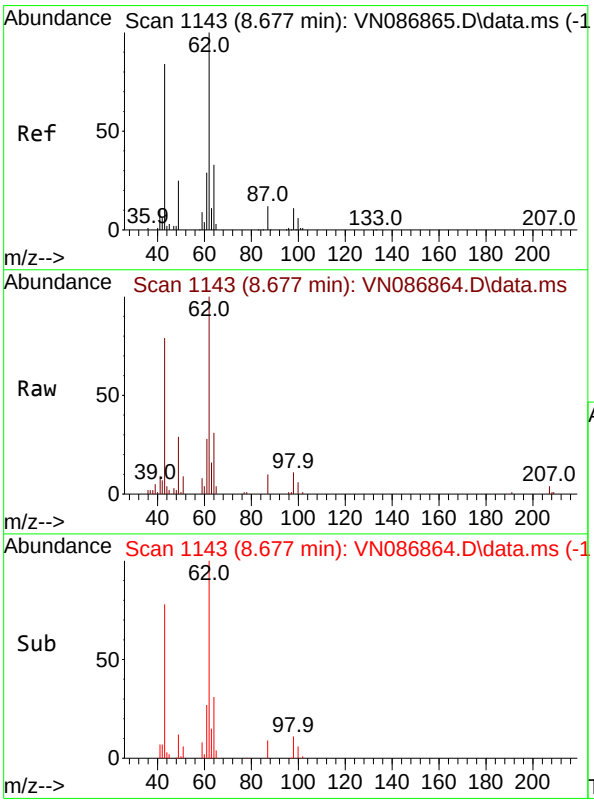
#41
Methacrylonitrile
Concen: 20.169 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 53244

Ion	Ratio	Lower	Upper
41	100		
39	49.5	41.2	61.8
67	77.3	61.4	92.2
52	29.6	22.7	34.1

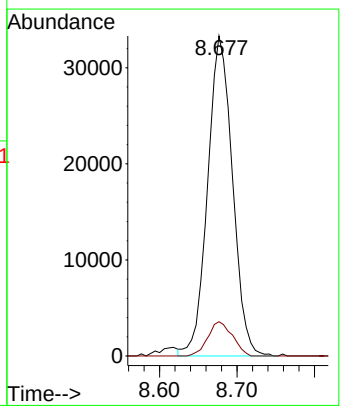


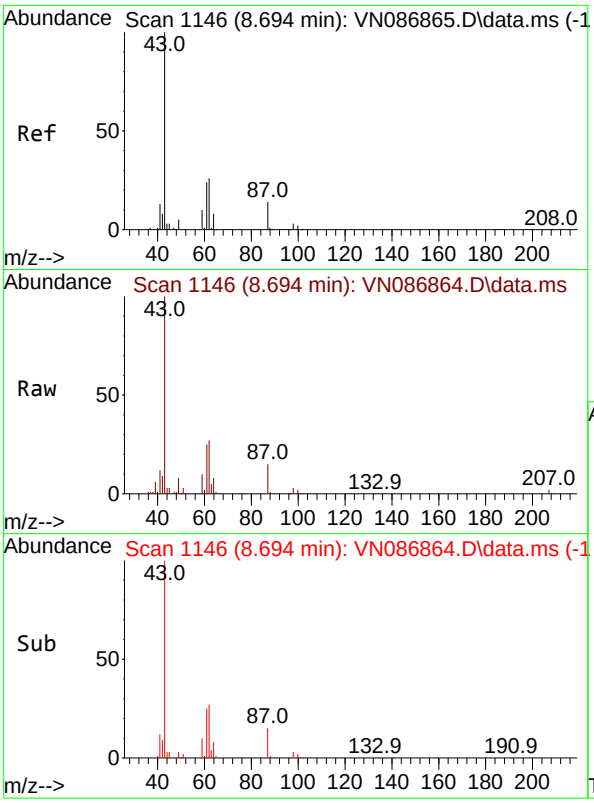


#42
1,2-Dichloroethane
Concen: 20.270 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 62 Resp: 74238

Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	21.2



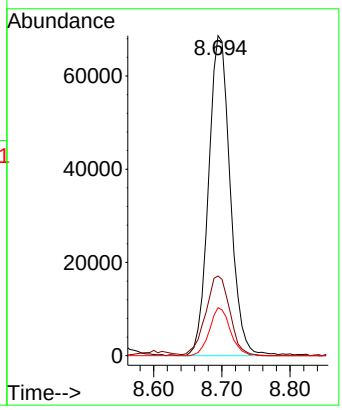


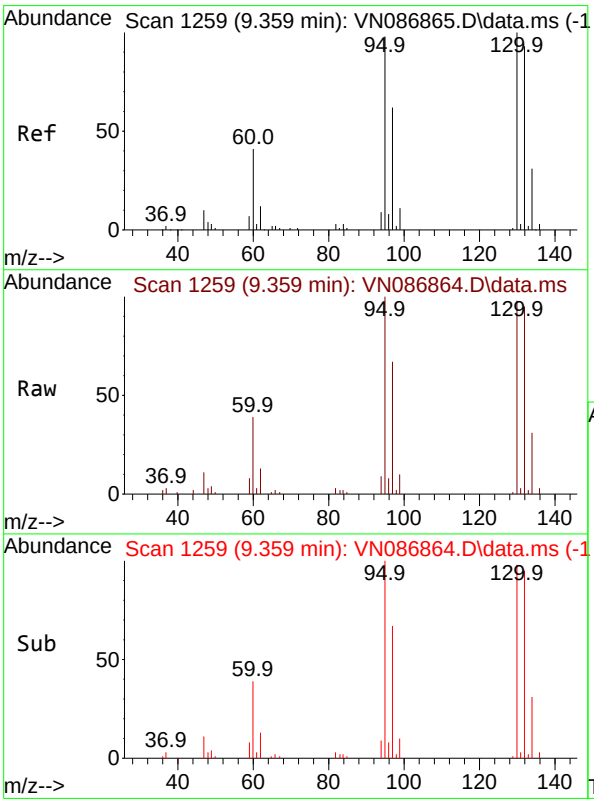
#43
Isopropyl Acetate
Concen: 20.094 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 151601

Ion	Ratio	Lower	Upper
43	100		
61	27.9	22.1	33.1
87	14.4	11.8	17.6

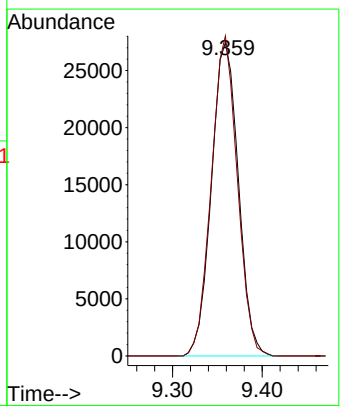


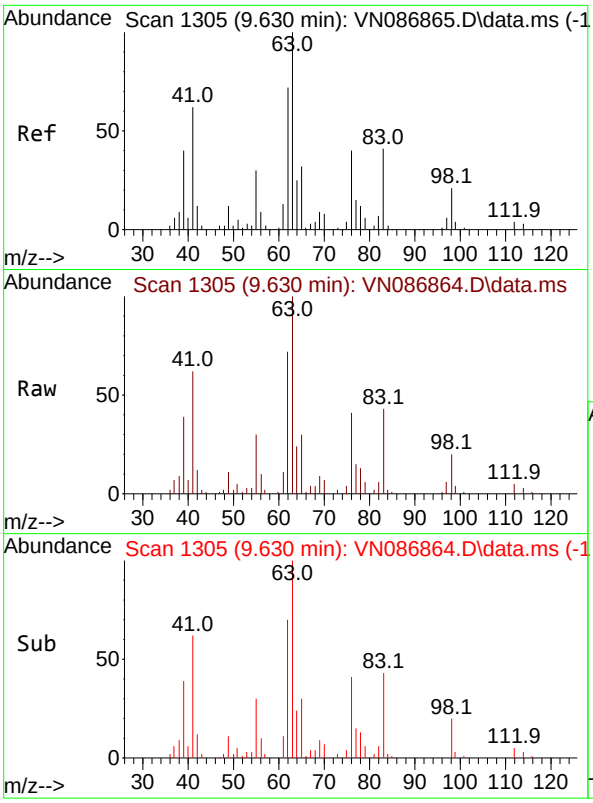


#44
Trichloroethene
Concen: 19.946 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:130 Resp: 57110

Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	196.2



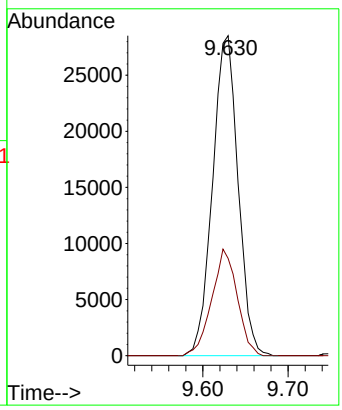


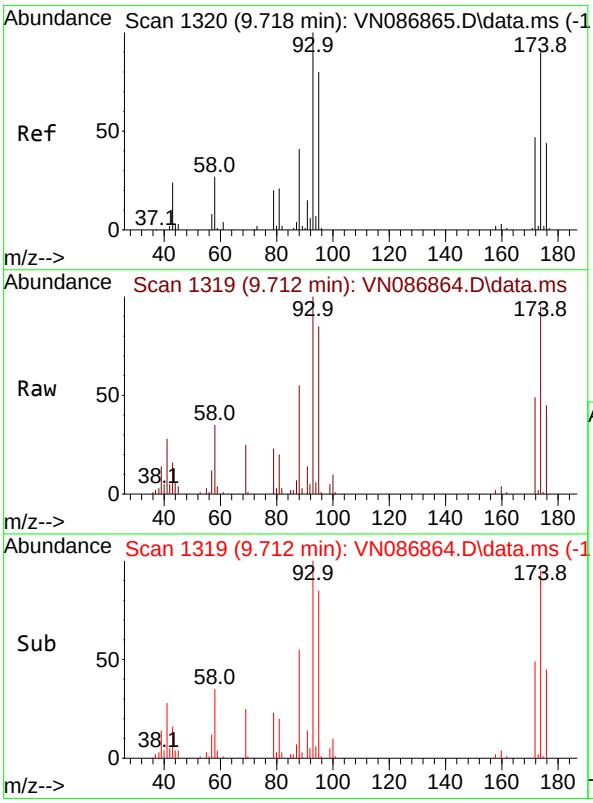
#45
1,2-Dichloropropane
Concen: 20.184 ug/l
RT: 9.630 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 63 Resp: 59293

Ion	Ratio	Lower	Upper
63	100		
65	30.4	25.5	38.3

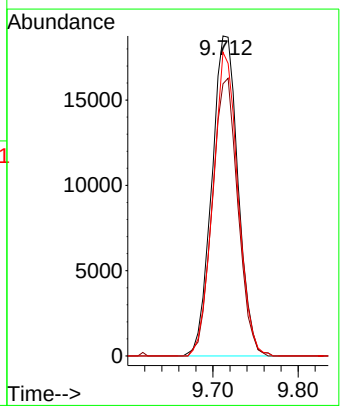


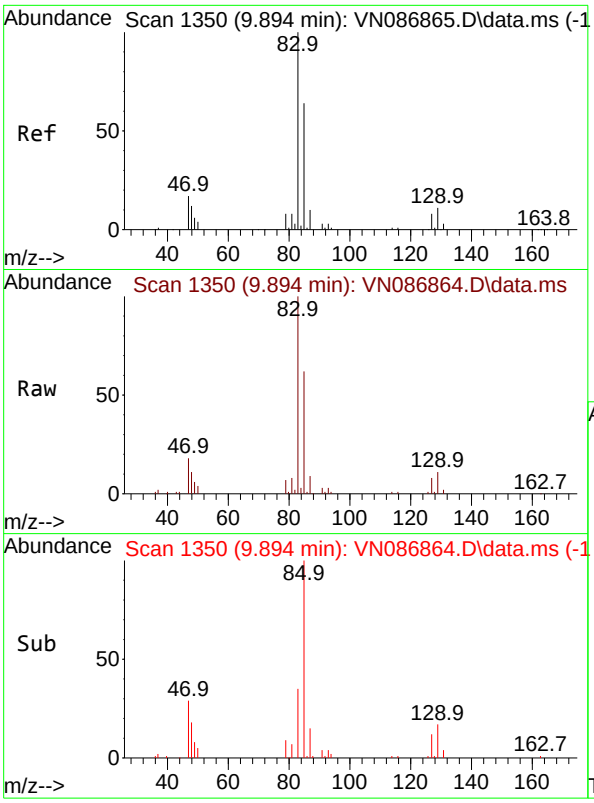


#46
Dibromomethane
Concen: 20.648 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 93 Resp: 40290

Ion	Ratio	Lower	Upper
93	100		
95	84.1	67.1	100.7
174	90.1	74.2	111.4



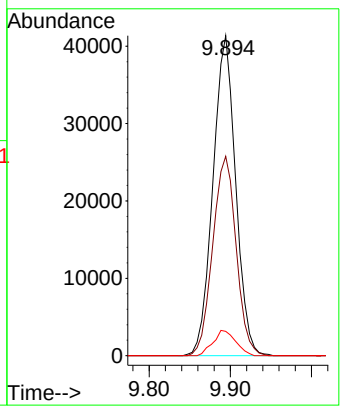


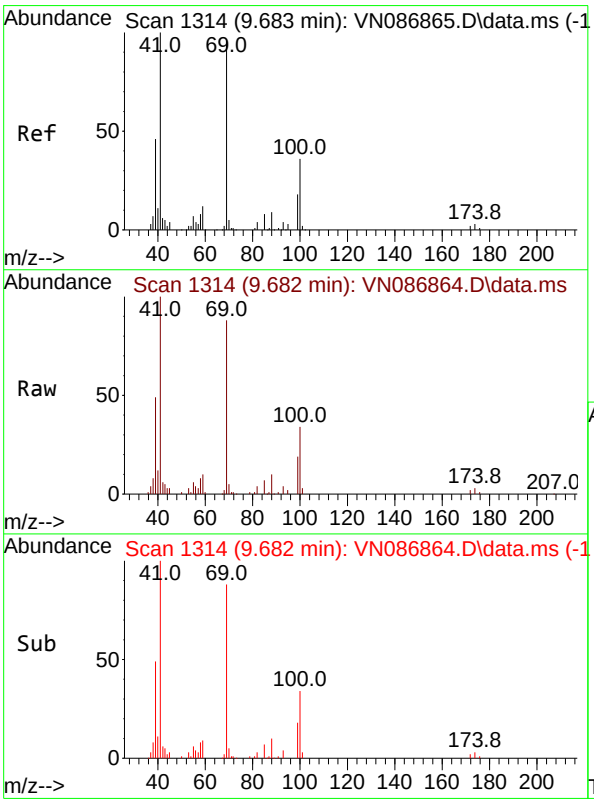
#47
Bromodichloromethane
Concen: 20.015 ug/l
RT: 9.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 80353

Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.9	76.3
127	7.6	6.6	10.0

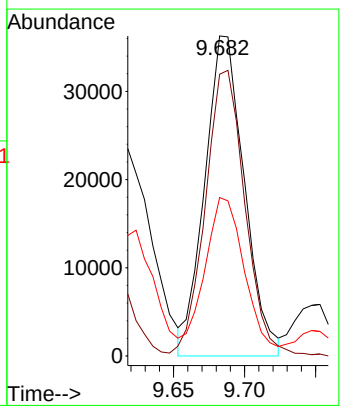


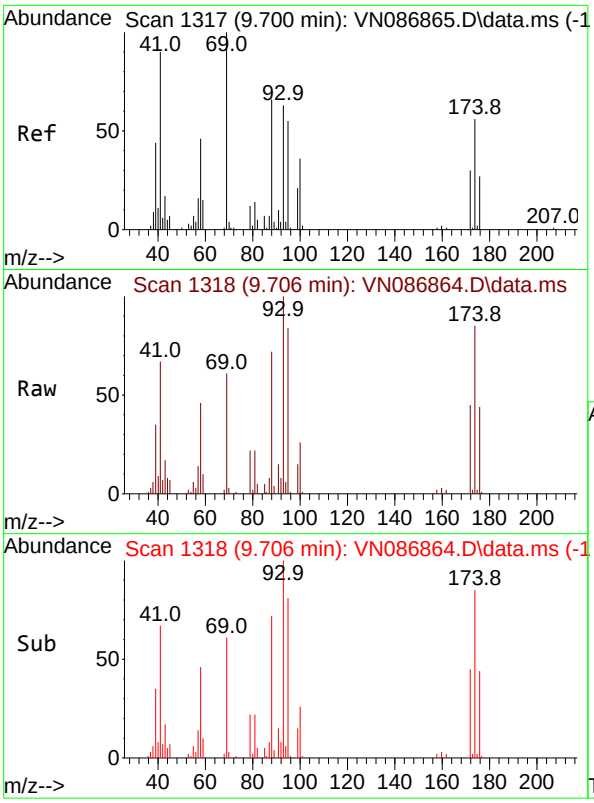


#48
Methyl methacrylate
Concen: 20.290 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 41 Resp: 70457

Ion	Ratio	Lower	Upper
41	100		
69	89.4	74.6	112.0
39	50.3	40.2	60.4



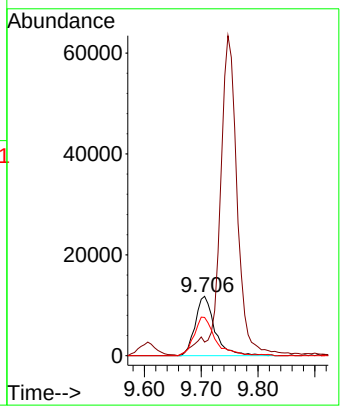


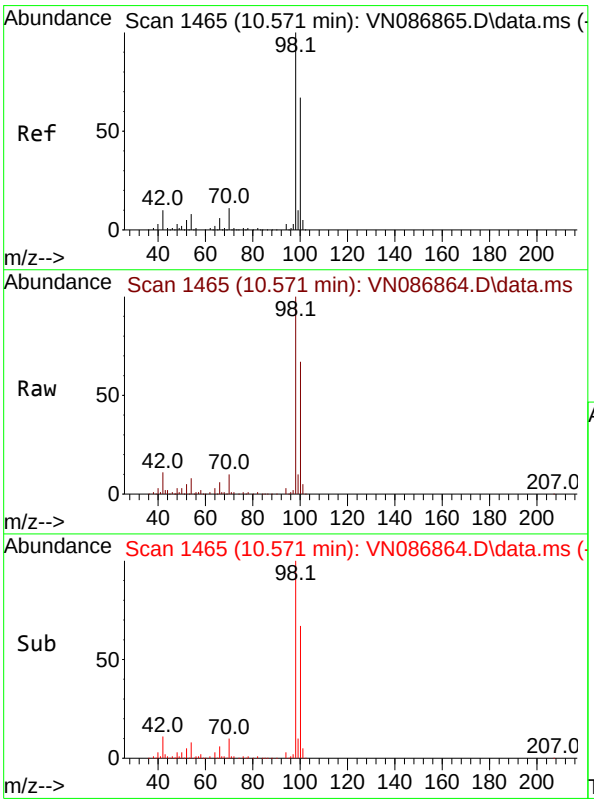
#49
1,4-Dioxane
Concen: 446.886 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 88 Resp: 28231

Ion	Ratio	Lower	Upper
88	100		
43	19.7	0.0	0.0#
58	70.1	57.7	86.5

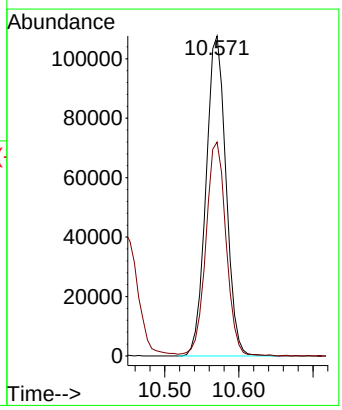


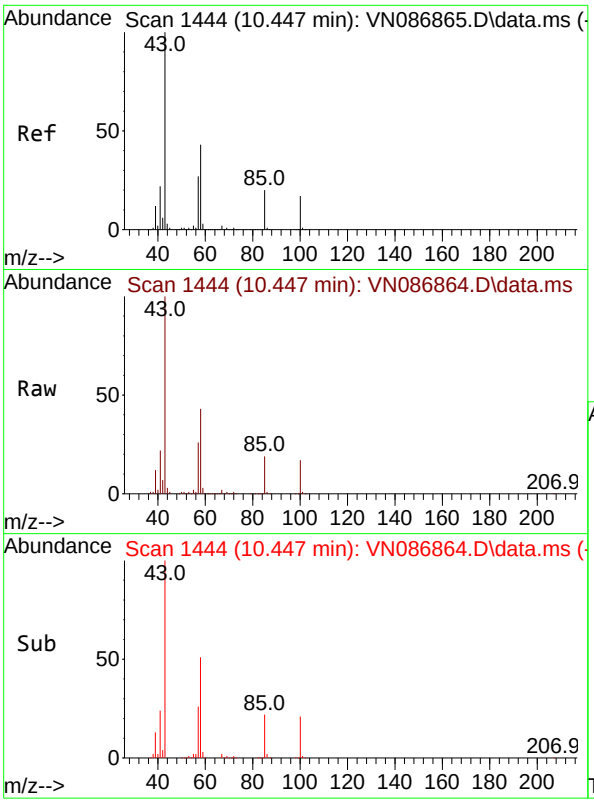


#50
Toluene-d8
Concen: 20.516 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 98 Resp: 201268

Ion	Ratio	Lower	Upper
98	100		
100	67.8	53.4	80.0



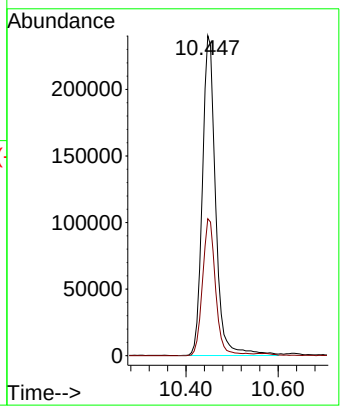


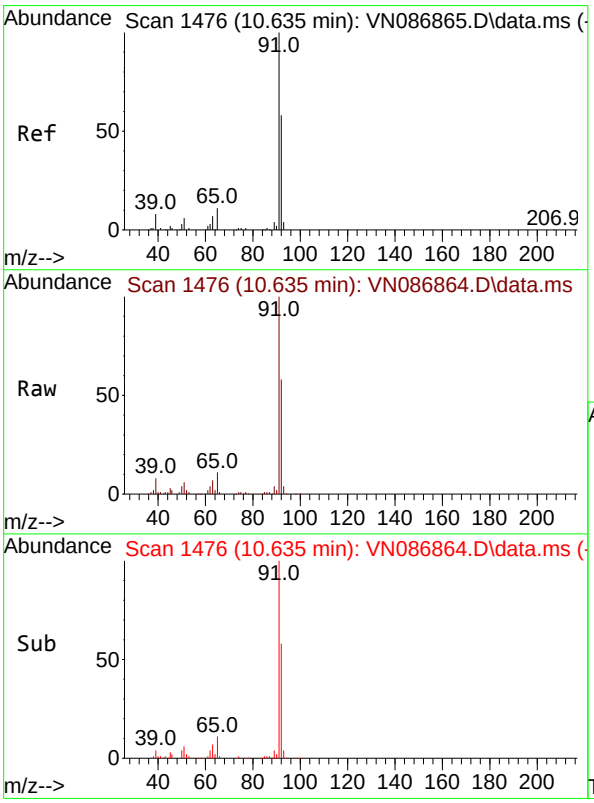
#51
4-Methyl-2-Pentanone
Concen: 106.066 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 481741

Ion	Ratio	Lower	Upper
43	100		
58	42.0	34.2	51.4

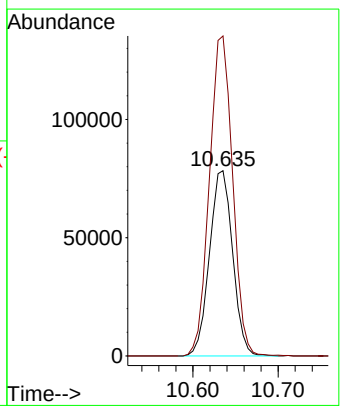


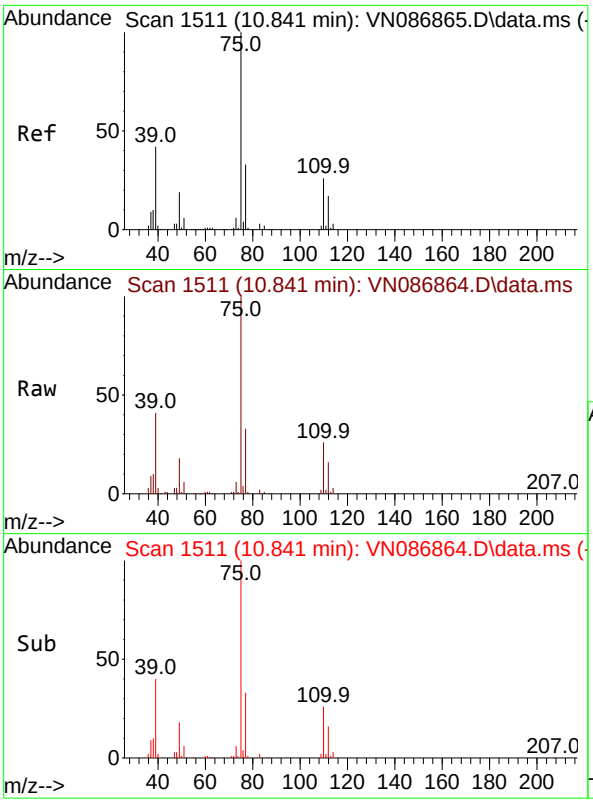


#52
Toluene
Concen: 20.056 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 92 Resp: 148000

Ion	Ratio	Lower	Upper
92	100		
91	172.9	136.5	204.7



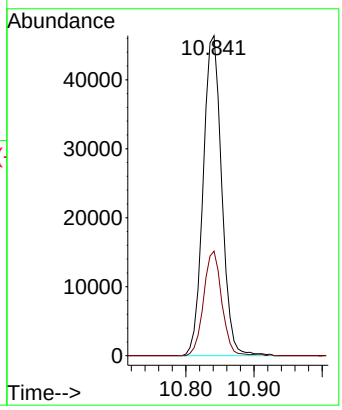


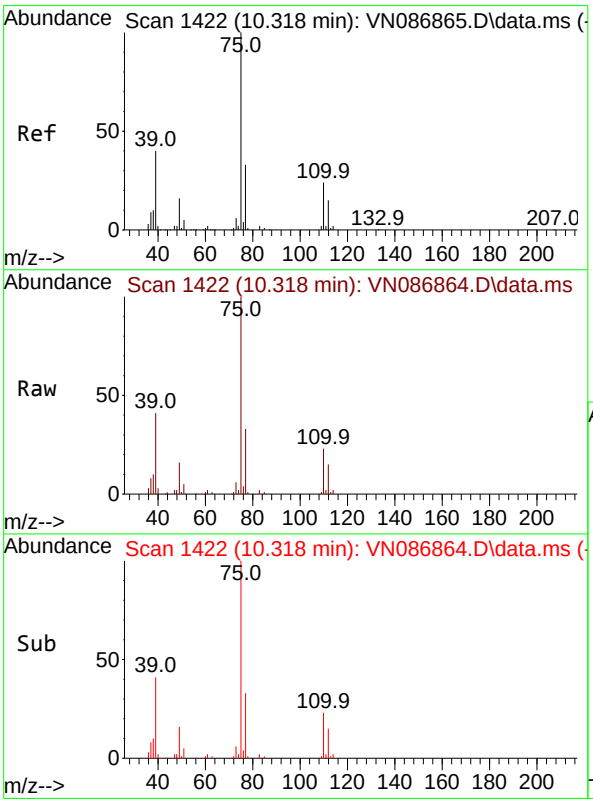
#53
t-1,3-Dichloropropene
Concen: 19.532 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 87683

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.4	39.6

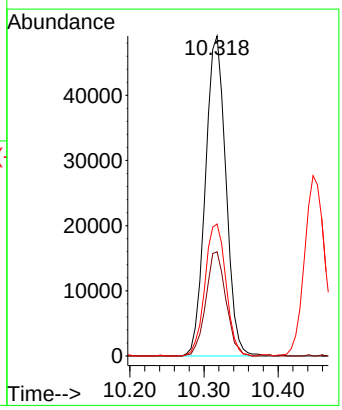


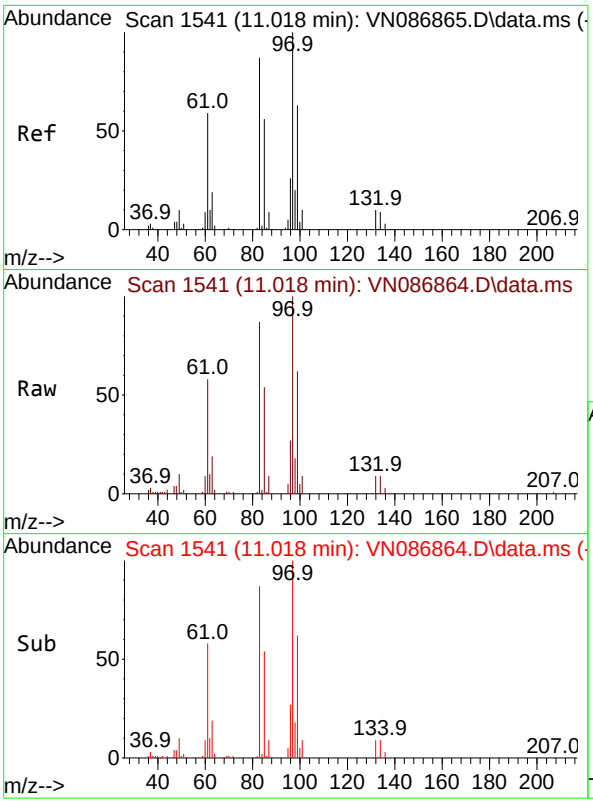


#54
cis-1,3-Dichloropropene
Concen: 19.636 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 75 Resp: 94315

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.2	39.4
39	41.3	32.3	48.5



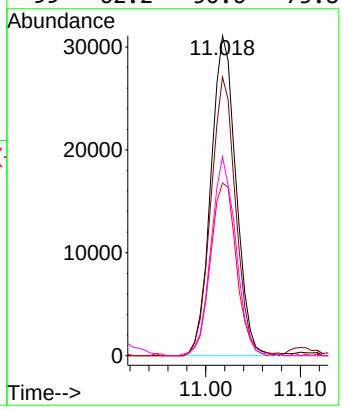


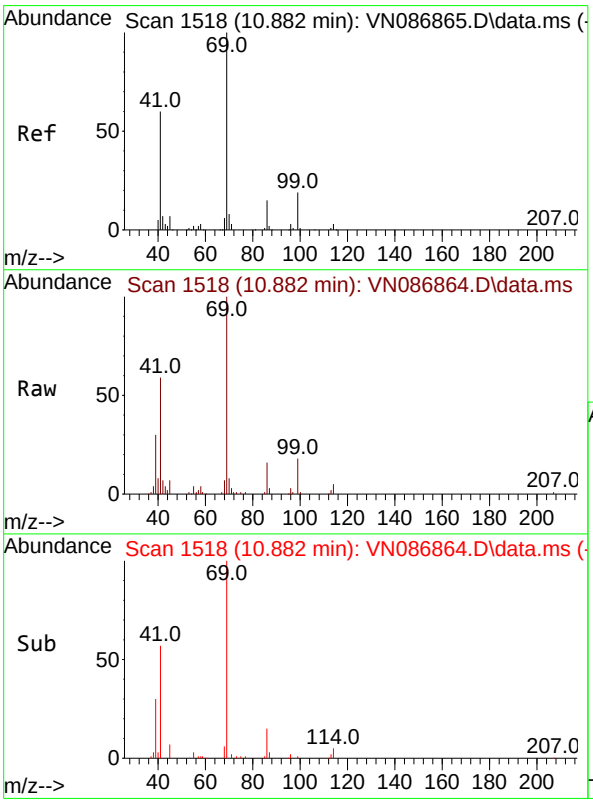
#55
1,1,2-Trichloroethane
Concen: 20.143 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 97 Resp: 57195

Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.7	104.5
85	54.0	45.1	67.7
99	62.2	50.6	75.8

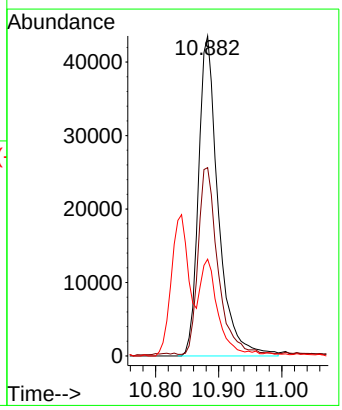


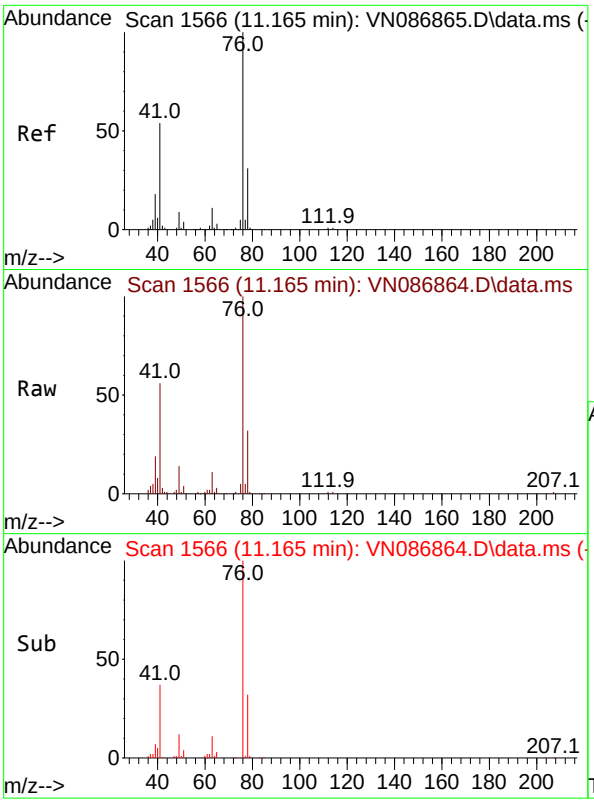


#56
Ethyl methacrylate
Concen: 20.968 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 69 Resp: 94829

Ion	Ratio	Lower	Upper
69	100		
41	58.9	47.2	70.8
39	25.9	23.0	34.6



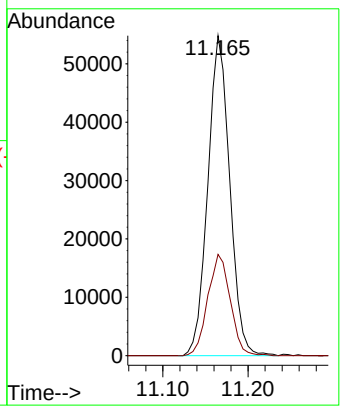


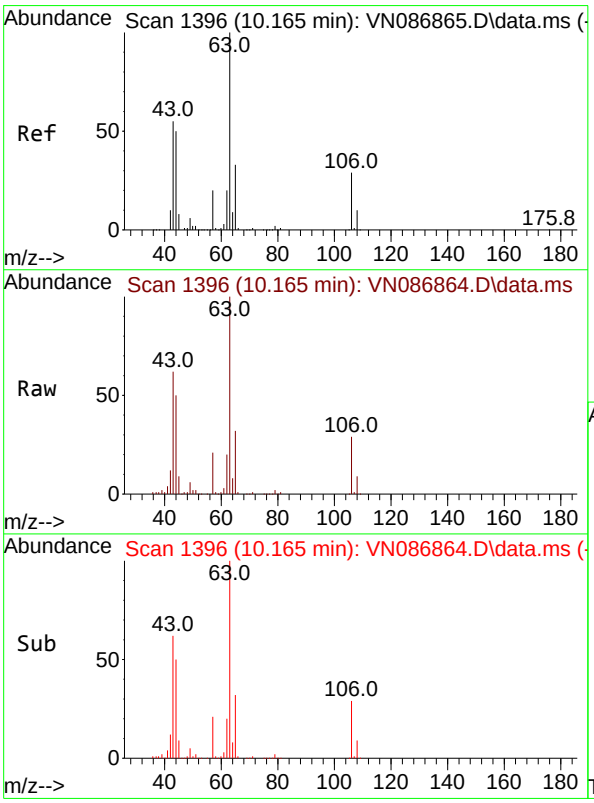
#57
1,3-Dichloropropane
Concen: 19.938 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 98205

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.3	37.9

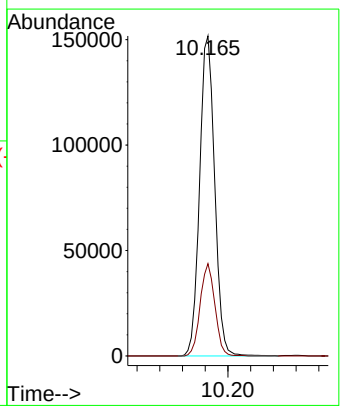


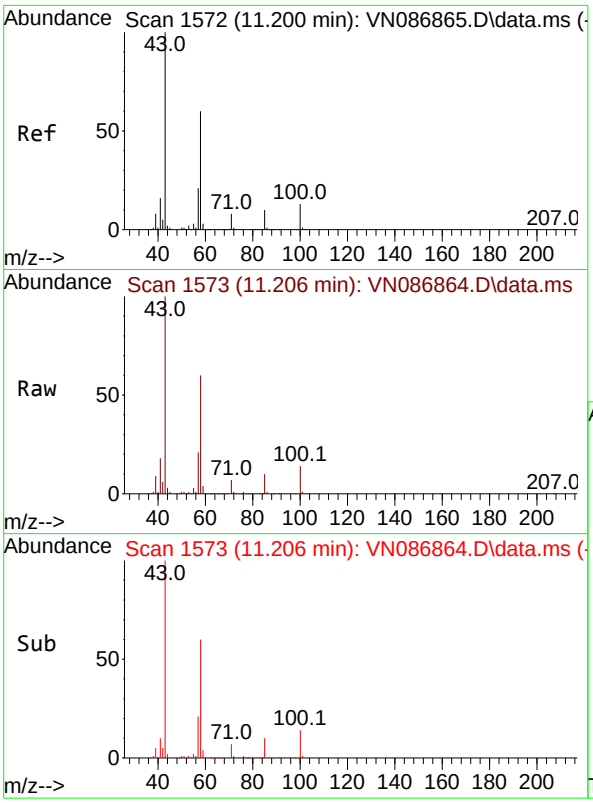


#58
2-Chloroethyl Vinyl ether
Concen: 103.426 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 63 Resp: 278986

Ion	Ratio	Lower	Upper
63	100		
106	28.1	23.0	34.6



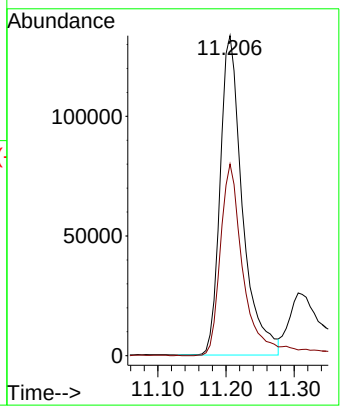


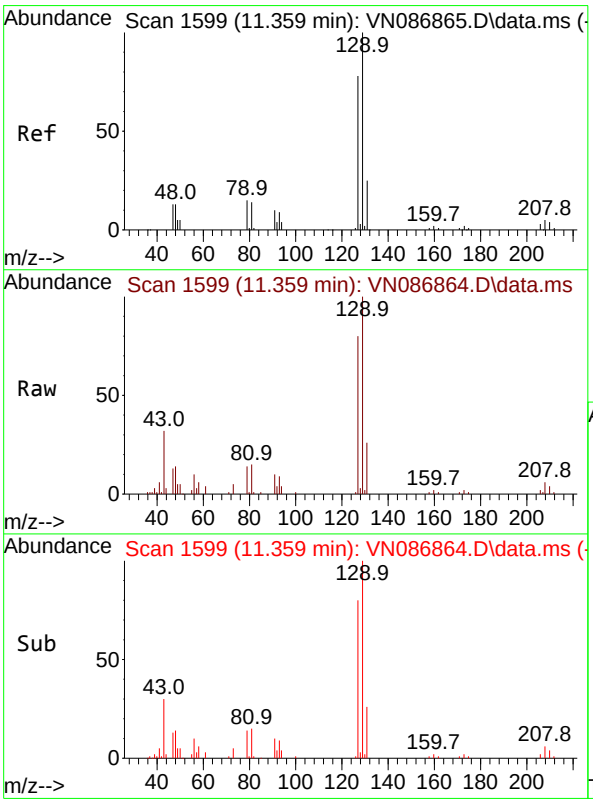
#59
2-Hexanone
Concen: 103.803 ug/l
RT: 11.206 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 303686

Ion	Ratio	Lower	Upper
43	100		
58	64.8	30.4	91.3

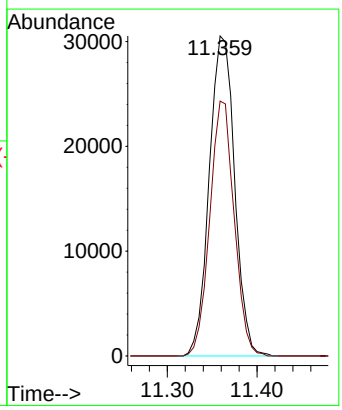


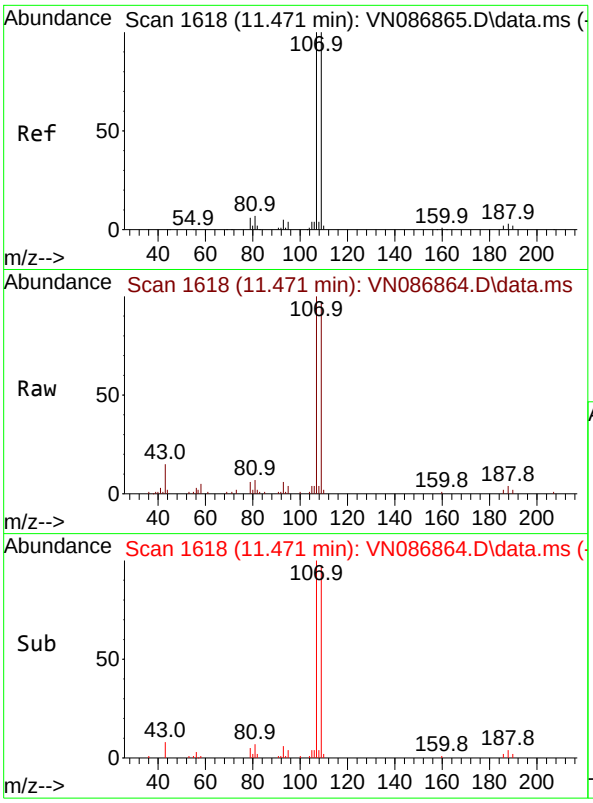


#60
Dibromochloromethane
Concen: 20.268 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:129 Resp: 59961

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.6	115.8



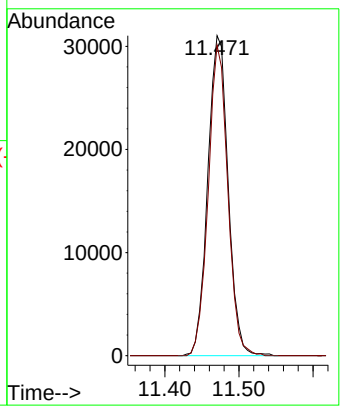


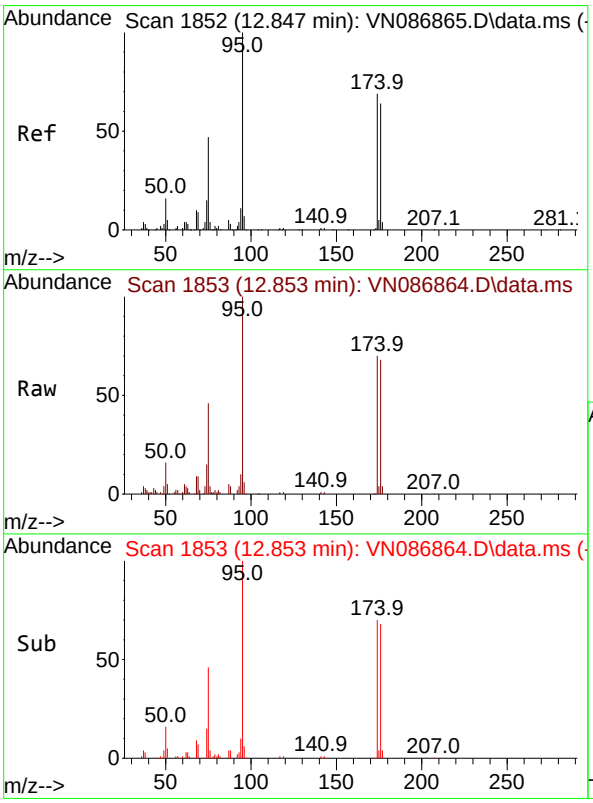
#61
1,2-Dibromoethane
Concen: 20.320 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 59139

Ion	Ratio	Lower	Upper
107	100		
109	93.0	76.3	114.5

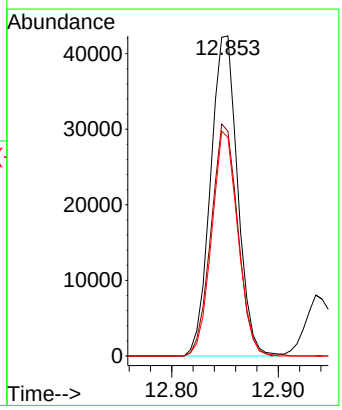


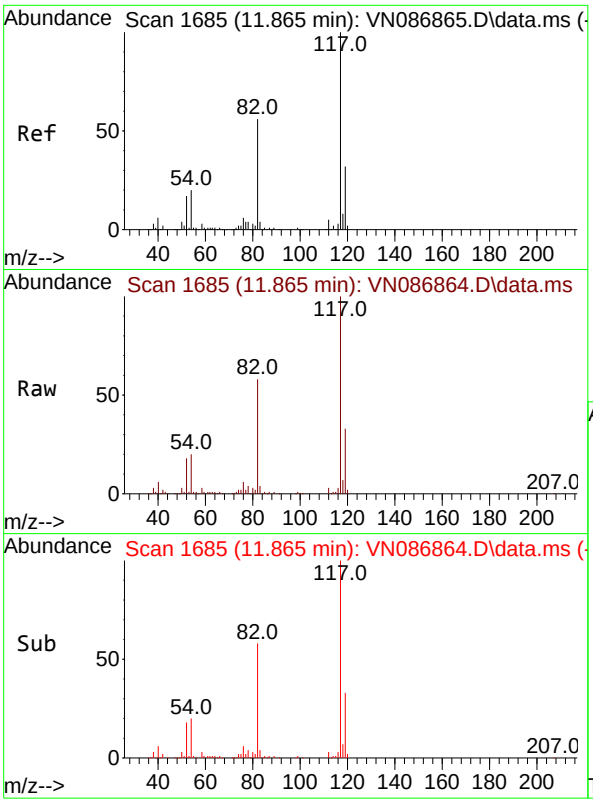


#62
4-Bromofluorobenzene
Concen: 20.474 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 95 Resp: 74622

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.8
176	68.0	0.0	132.6



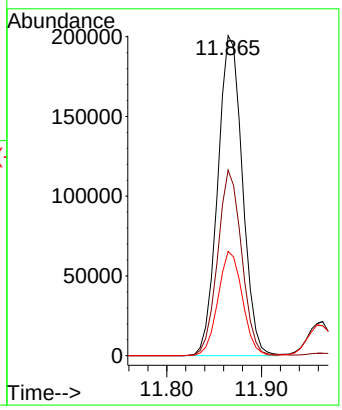


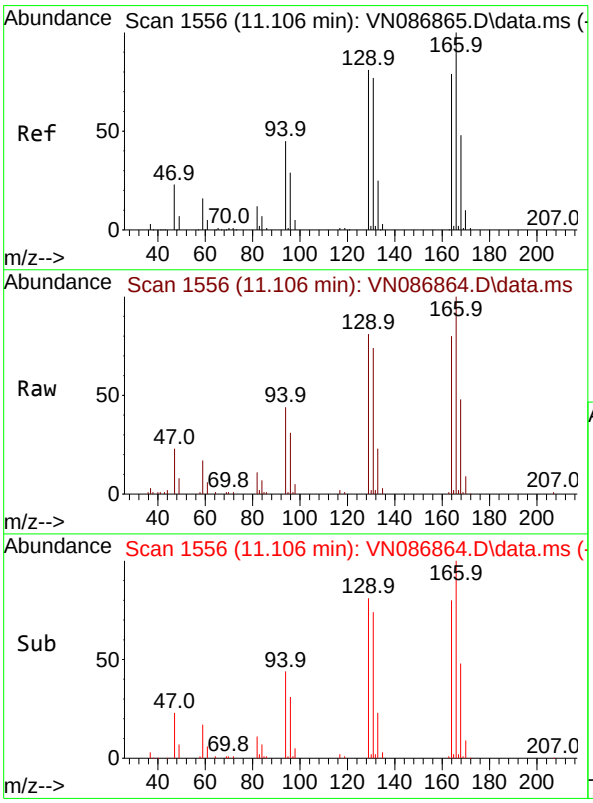
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 363172

Ion	Ratio	Lower	Upper
117	100		
82	58.0	44.6	67.0
119	32.6	25.5	38.3

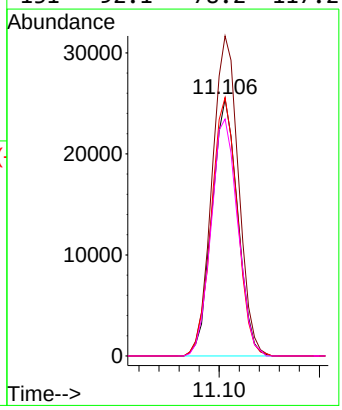


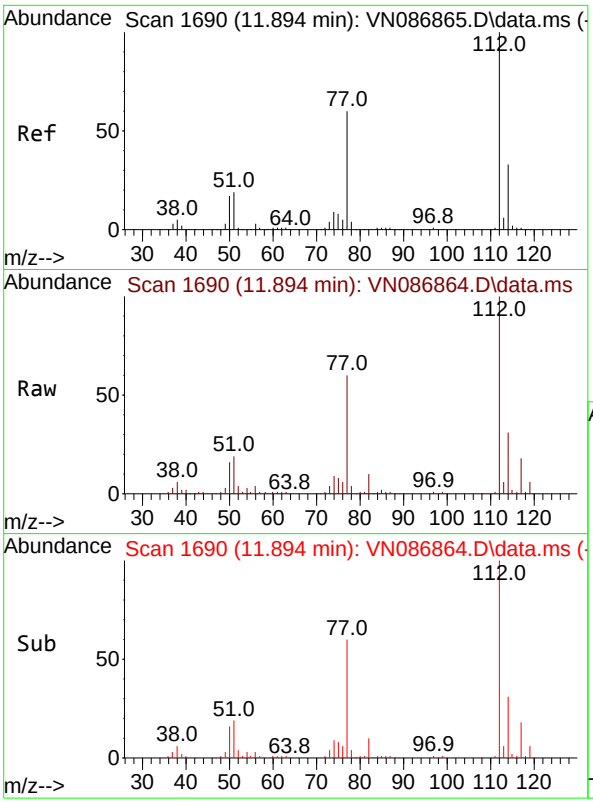


#64
Tetrachloroethene
Concen: 19.742 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:164 Resp: 45374

Ion	Ratio	Lower	Upper
164	100		
166	124.4	101.8	152.8
129	100.4	83.0	124.4
131	92.1	78.2	117.2



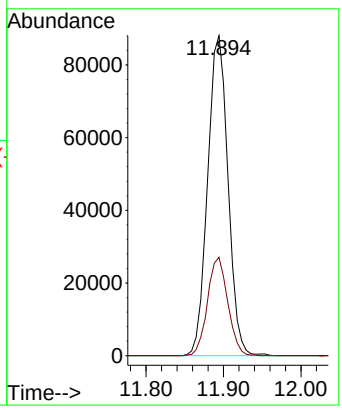


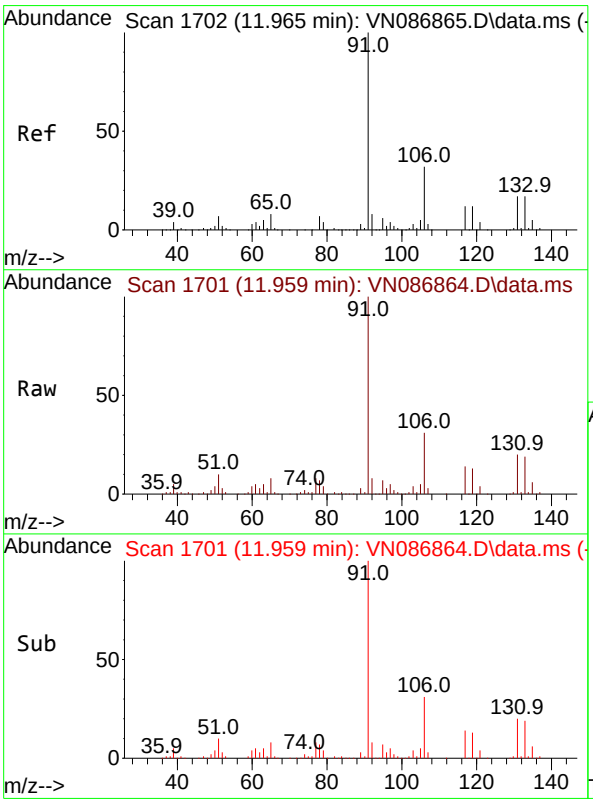
#65
Chlorobenzene
Concen: 20.076 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 160803

Ion	Ratio	Lower	Upper
112	100		
114	30.8	26.2	39.2

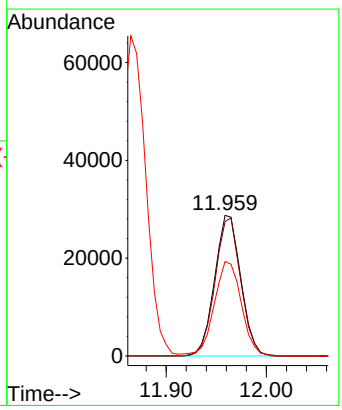


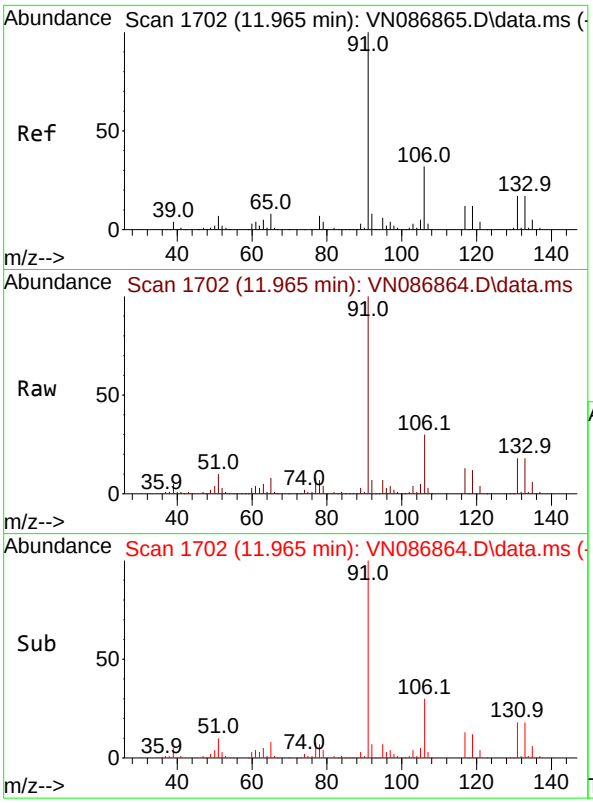


#66
1,1,1,2-Tetrachloroethane
Concen: 20.223 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:131 Resp: 52069

Ion	Ratio	Lower	Upper
131	100		
133	96.3	48.3	144.8
119	69.6	34.0	101.8



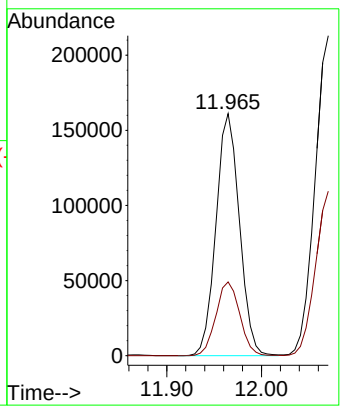


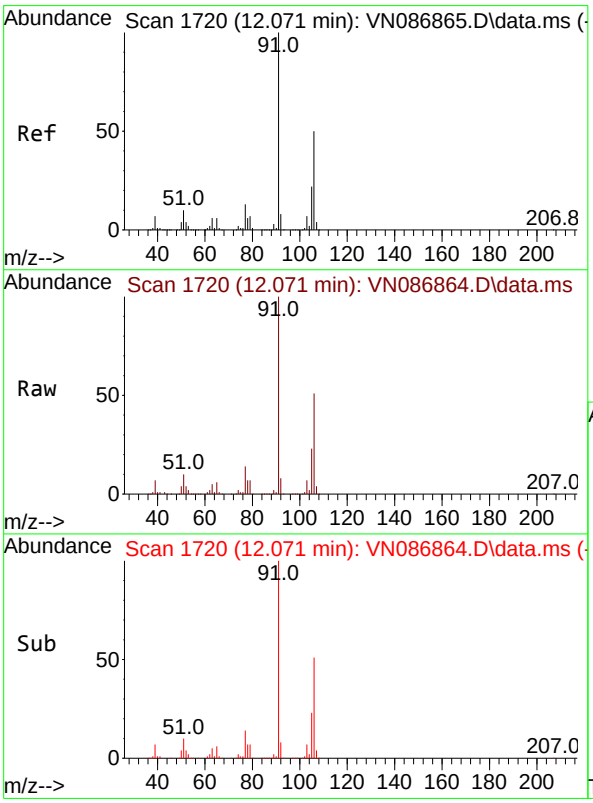
#67
Ethyl Benzene
Concen: 20.083 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 277087

Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.4	38.2

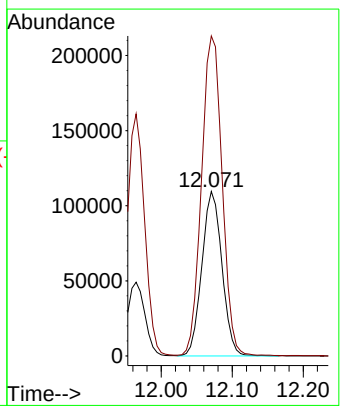


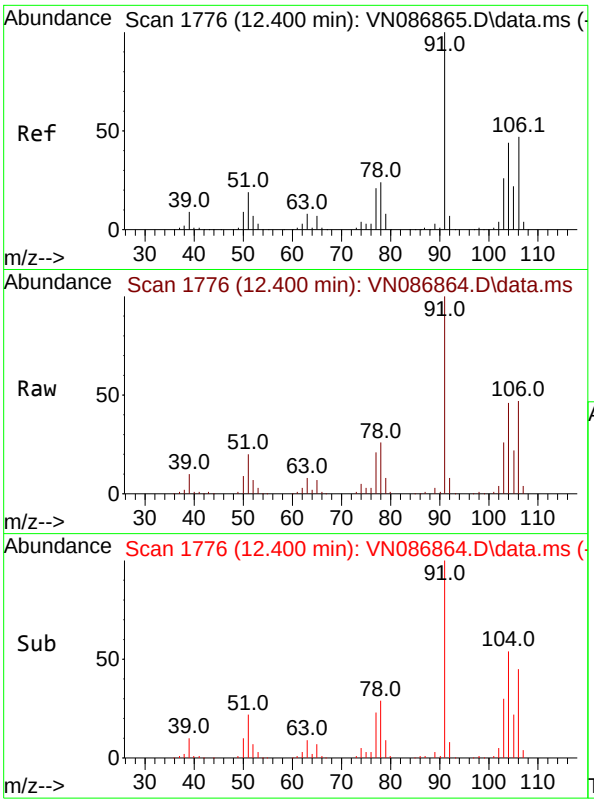


#68
m/p-Xylenes
Concen: 40.780 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:106 Resp: 215378

Ion	Ratio	Lower	Upper
106	100		
91	199.8	159.4	239.0



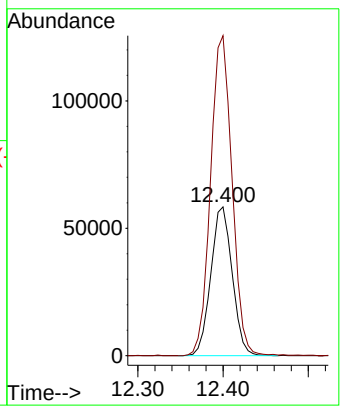


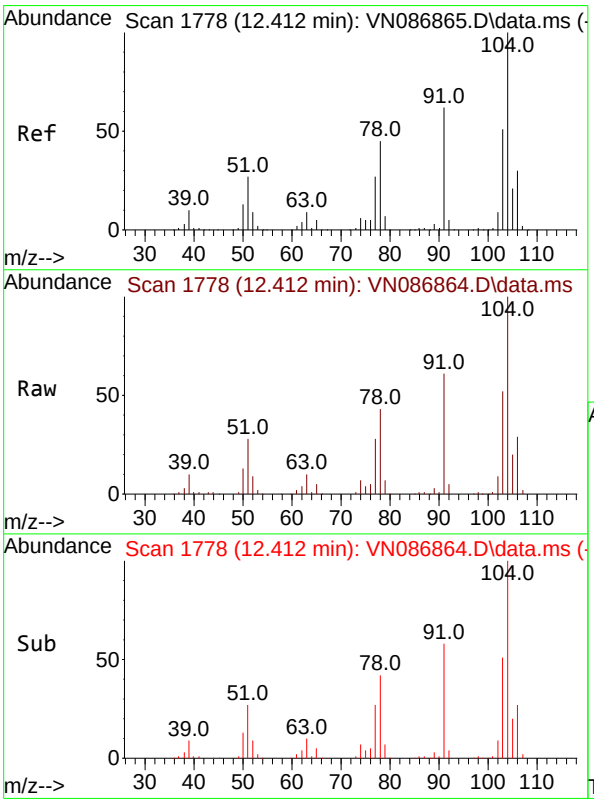
#69
o-Xylene
Concen: 20.175 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 102050

Ion	Ratio	Lower	Upper
106	100		
91	215.9	106.1	318.1

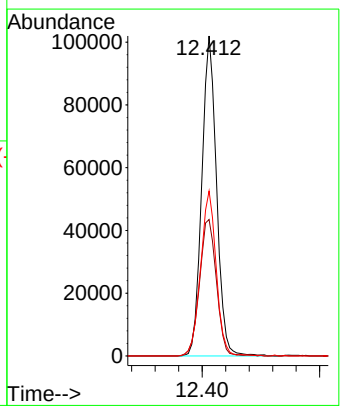


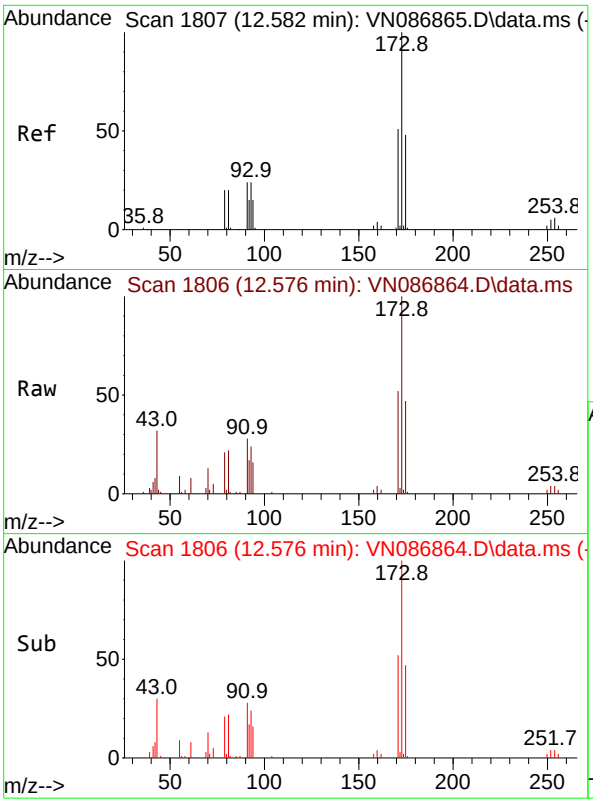


#70
Styrene
Concen: 20.572 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:104 Resp: 178061

Ion	Ratio	Lower	Upper
104	100		
78	48.3	38.5	57.7
103	54.4	43.1	64.7



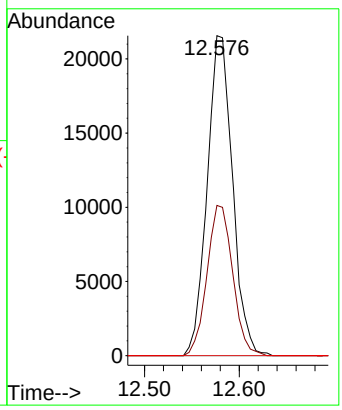


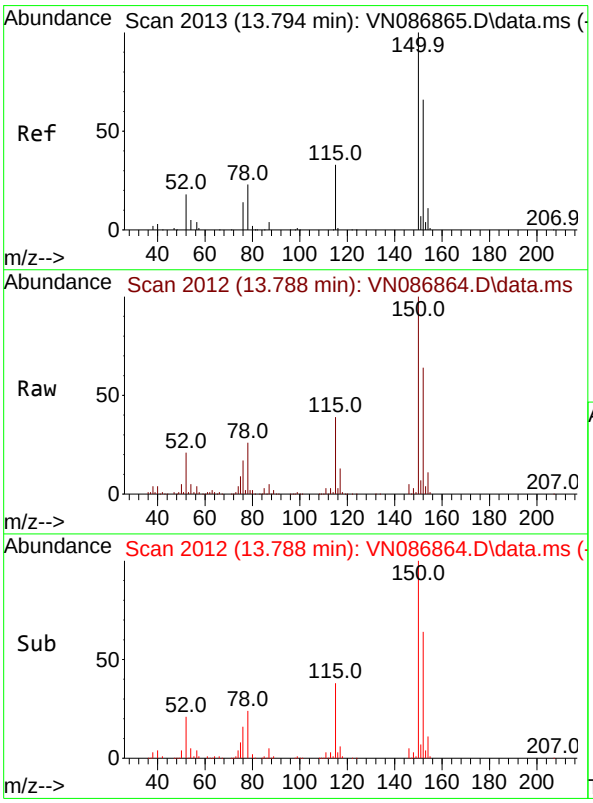
#71
Bromoform
Concen: 21.004 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:173 Resp: 40070

Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.1	72.4
254	0.0	0.0	0.0

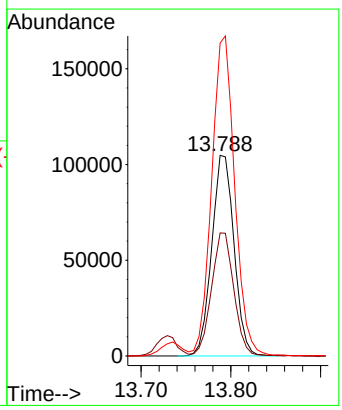


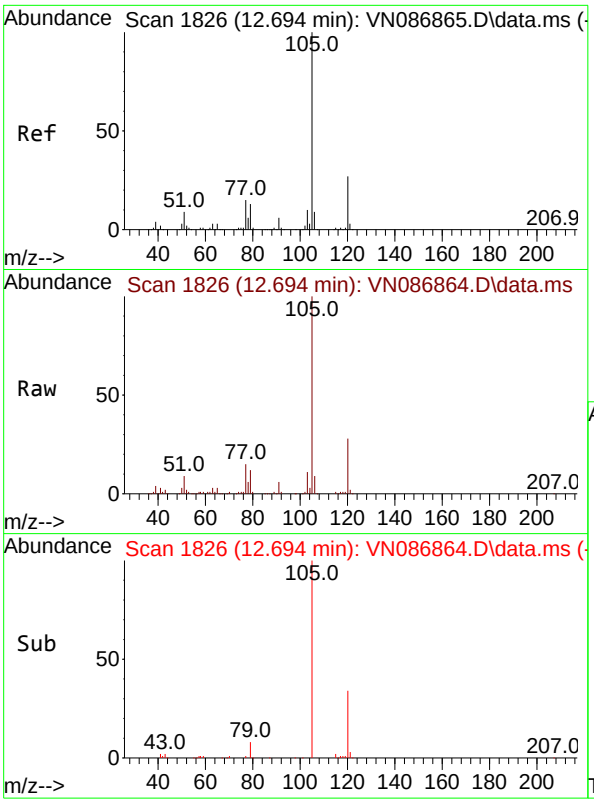


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:152 Resp: 181178

Ion	Ratio	Lower	Upper
152	100		
115	61.4	30.1	90.5
150	164.5	0.0	345.0



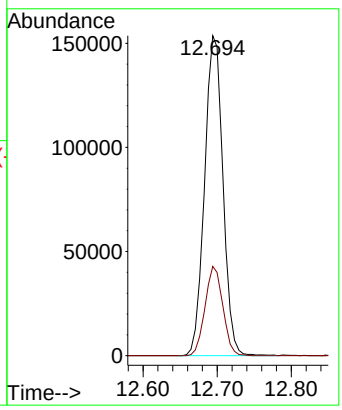


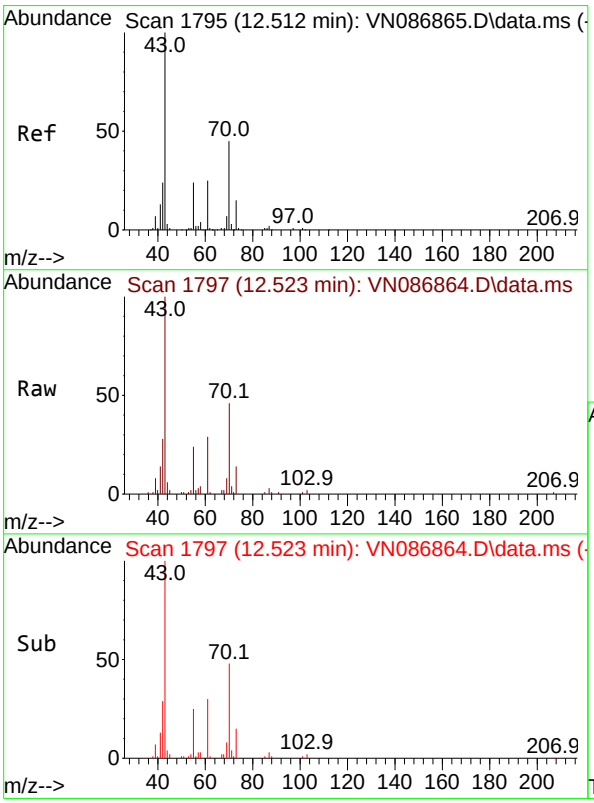
#73
Isopropylbenzene
Concen: 20.035 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 264442

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.5	40.4

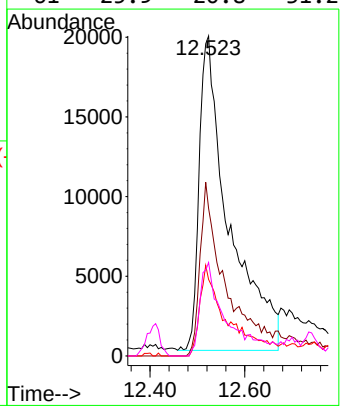


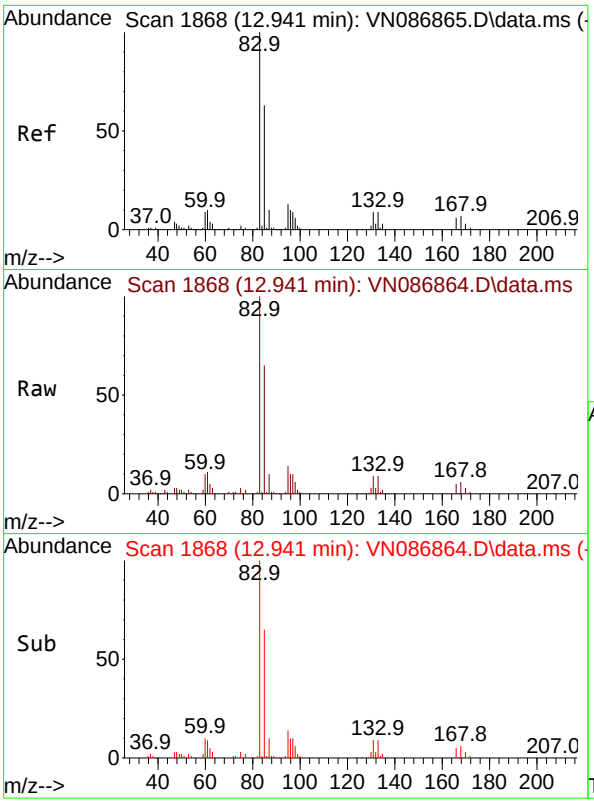


#74
N-amyl acetate
Concen: 19.633 ug/l
RT: 12.523 min Scan# 1797
Delta R.T. 0.012 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 43 Resp: 86003

Ion	Ratio	Lower	Upper
43	100		
70	47.7	37.6	56.4
55	26.6	19.0	28.6
61	25.9	20.8	31.2



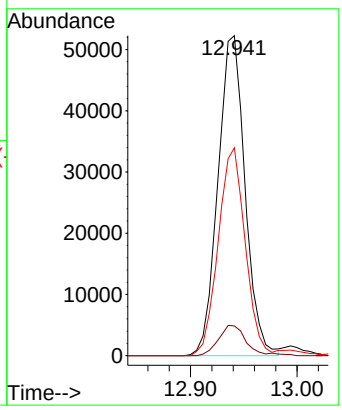


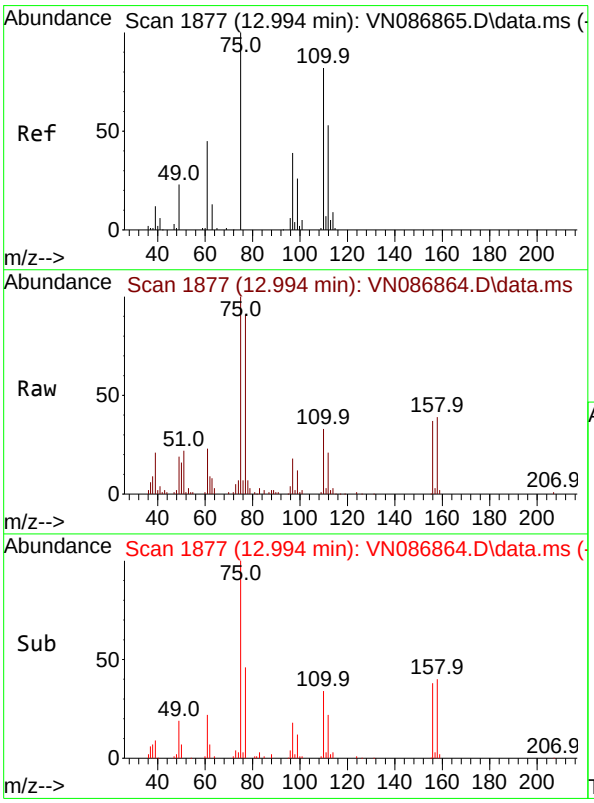
#75
1,1,2,2-Tetrachloroethane
Concen: 20.634 ug/l
RT: 12.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 92264

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	64.5	32.0	96.0

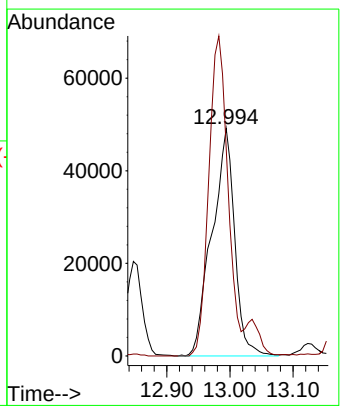


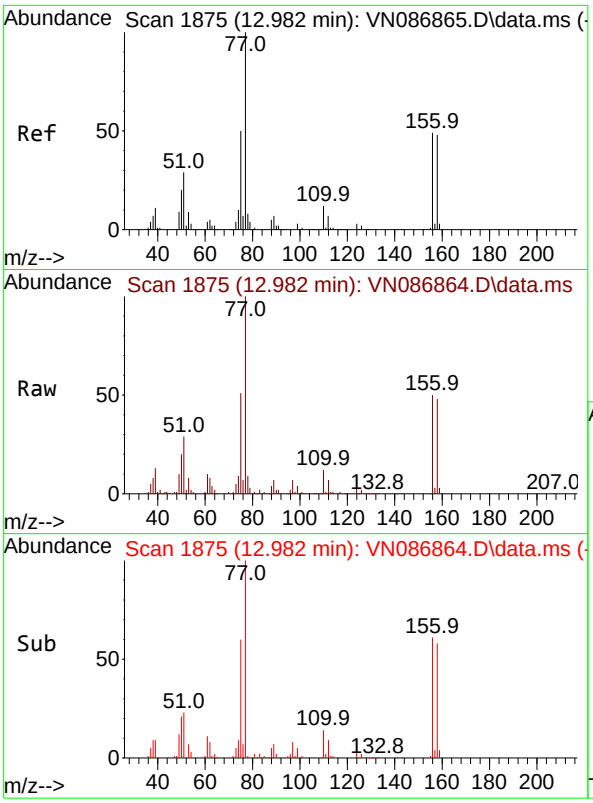


#76
1,2,3-Trichloropropane
Concen: 28.448 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 75 Resp: 122897

Ion	Ratio	Lower	Upper
75	100		
77	117.5	79.3	237.9



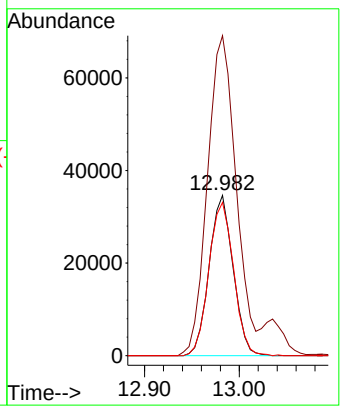


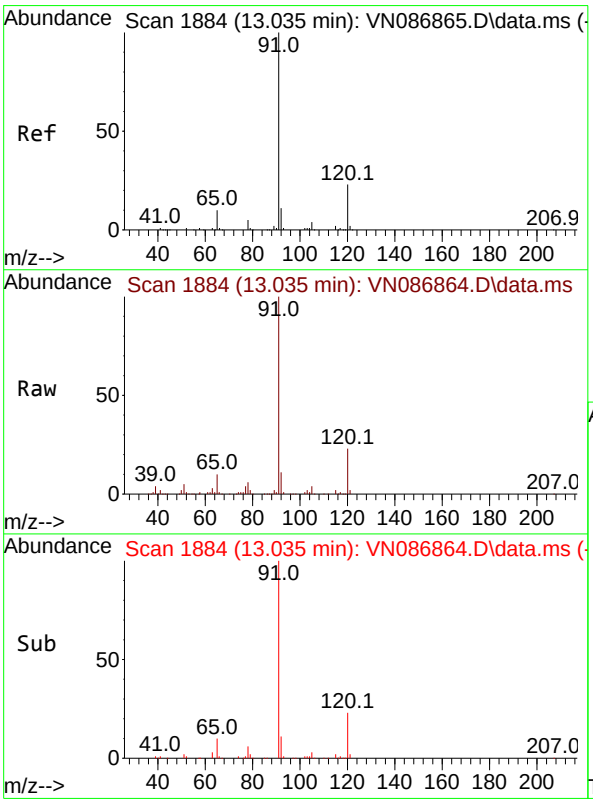
#77
Bromobenzene
Concen: 20.111 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 60877

Ion	Ratio	Lower	Upper
156	100		
77	237.3	117.7	353.1
158	99.0	48.1	144.4

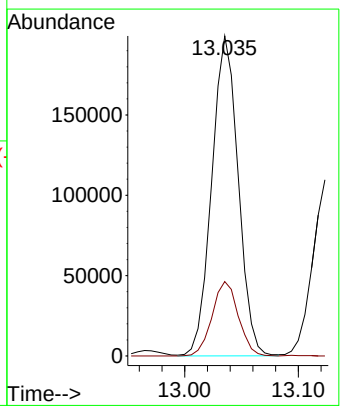


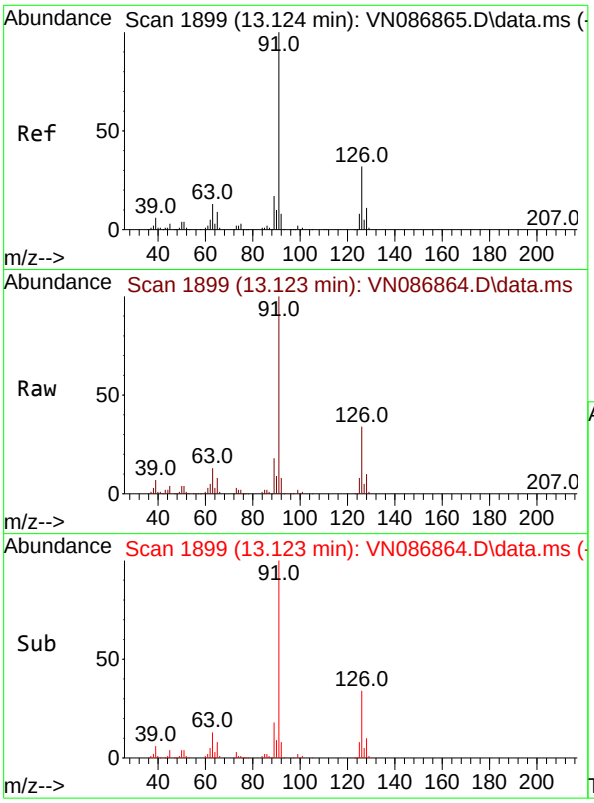


#78
n-propylbenzene
Concen: 20.102 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 91 Resp: 322436

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.4	34.2



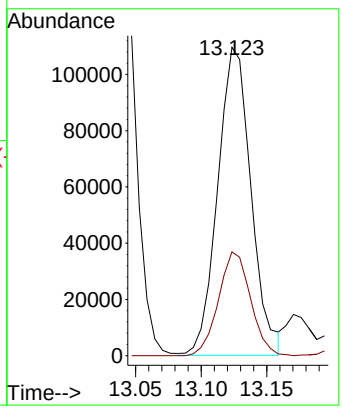


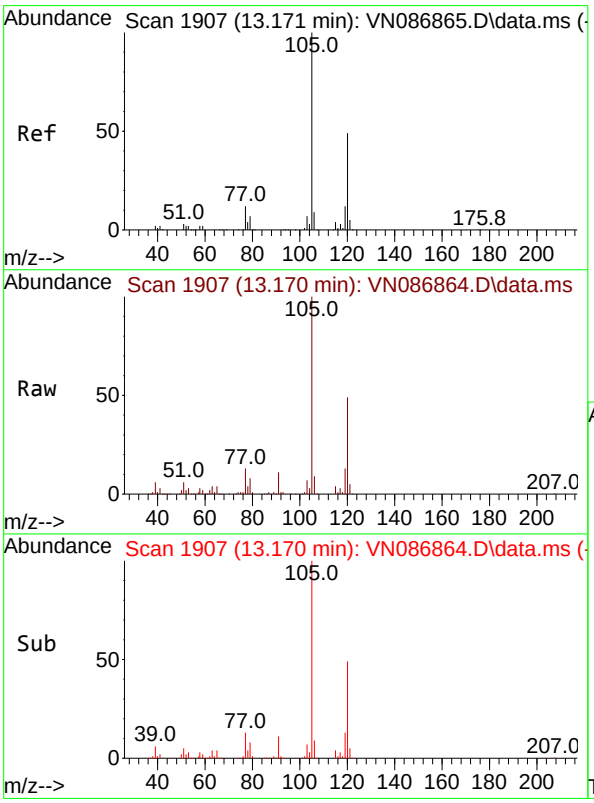
#79
2-Chlorotoluene
Concen: 20.144 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 193774

Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.2	48.5

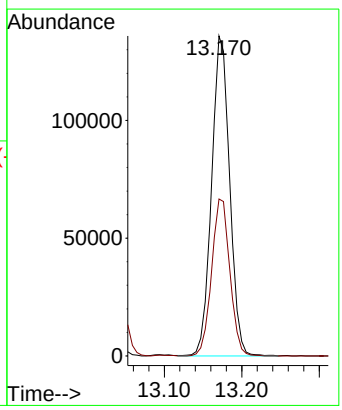


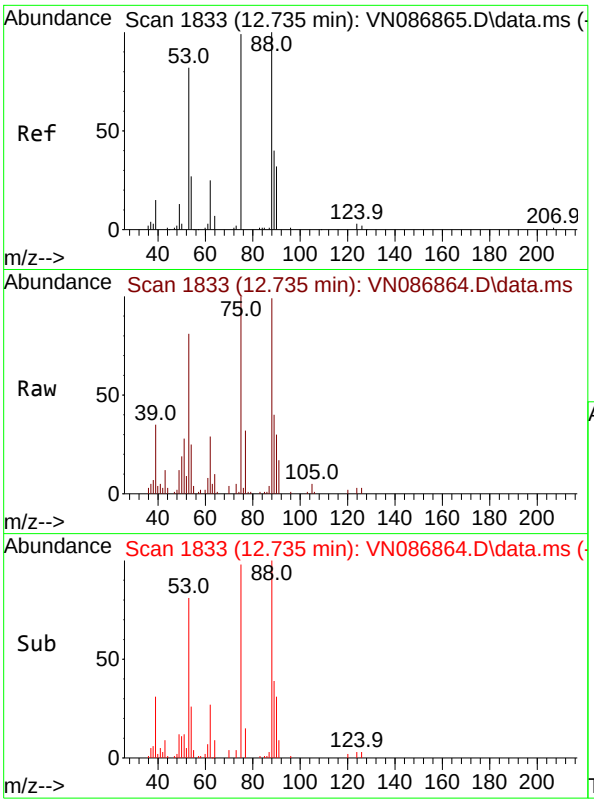


#80
1,3,5-Trimethylbenzene
Concen: 20.183 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:105 Resp: 219937

Ion	Ratio	Lower	Upper
105	100		
120	49.6	24.9	74.6



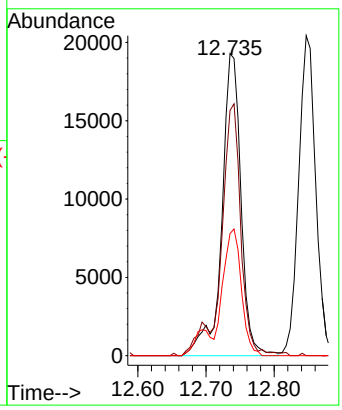


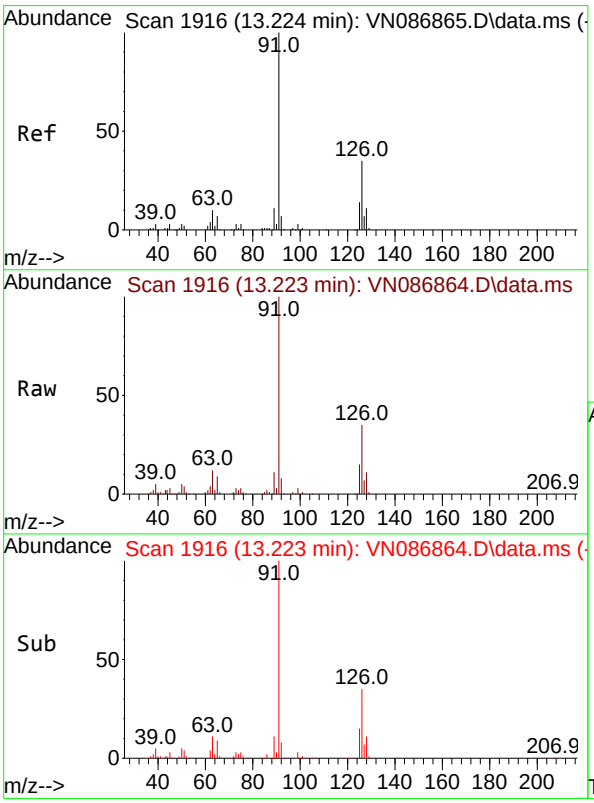
#81
trans-1,4-Dichloro-2-butene
Concen: 20.209 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 37808

Ion	Ratio	Lower	Upper
75	100		
53	77.3	66.6	99.8
89	39.6	36.7	55.1

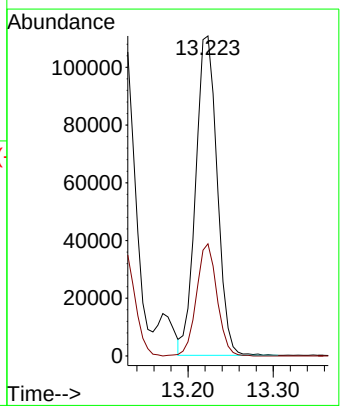


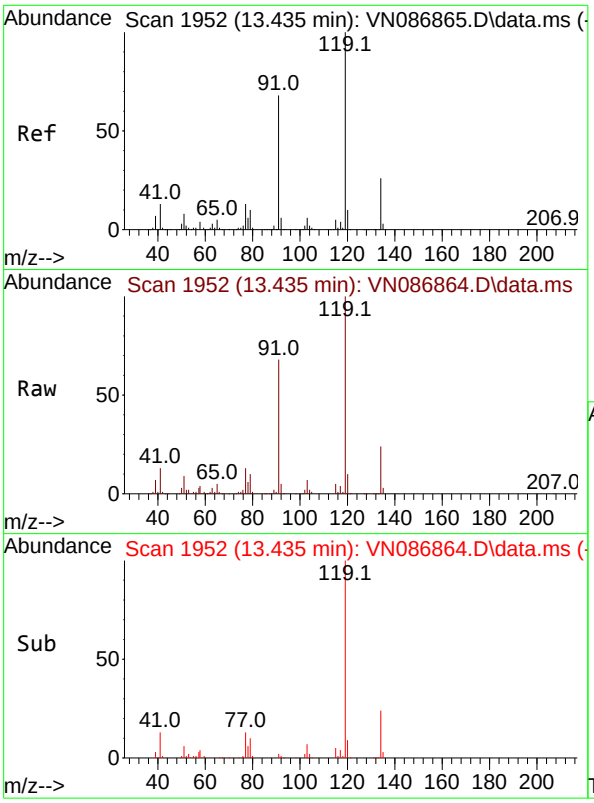


#82
4-Chlorotoluene
Concen: 19.885 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 91 Resp: 193544

Ion	Ratio	Lower	Upper
91	100		
126	33.7	16.7	50.1



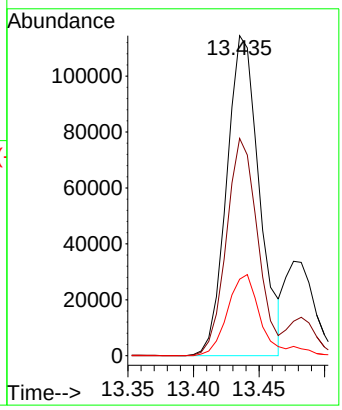


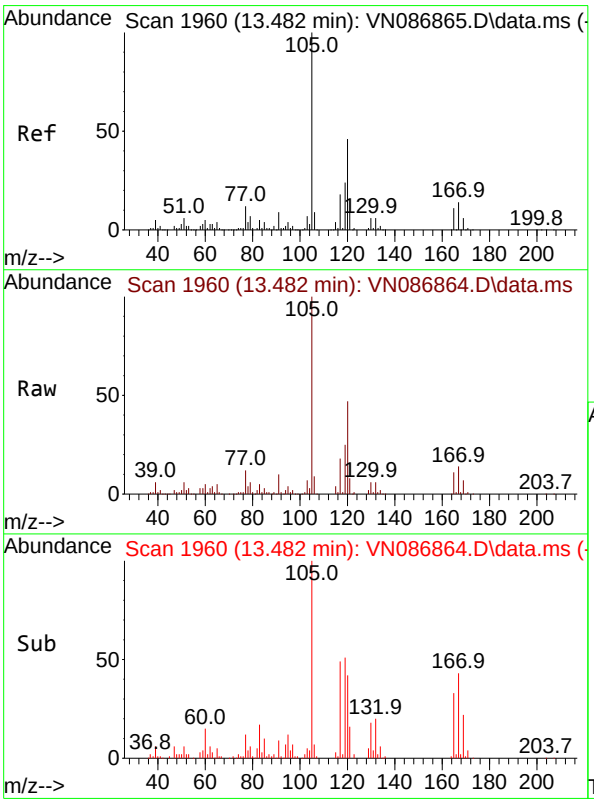
#83
tert-Butylbenzene
Concen: 19.880 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 198303

Ion	Ratio	Lower	Upper
119	100		
91	65.2	32.1	96.5
134	26.5	13.4	40.1

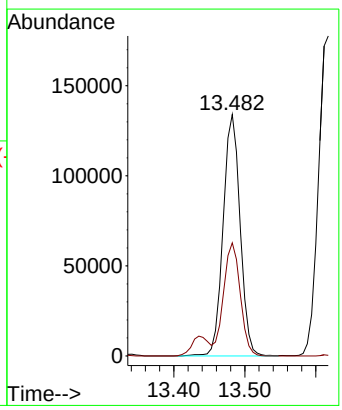


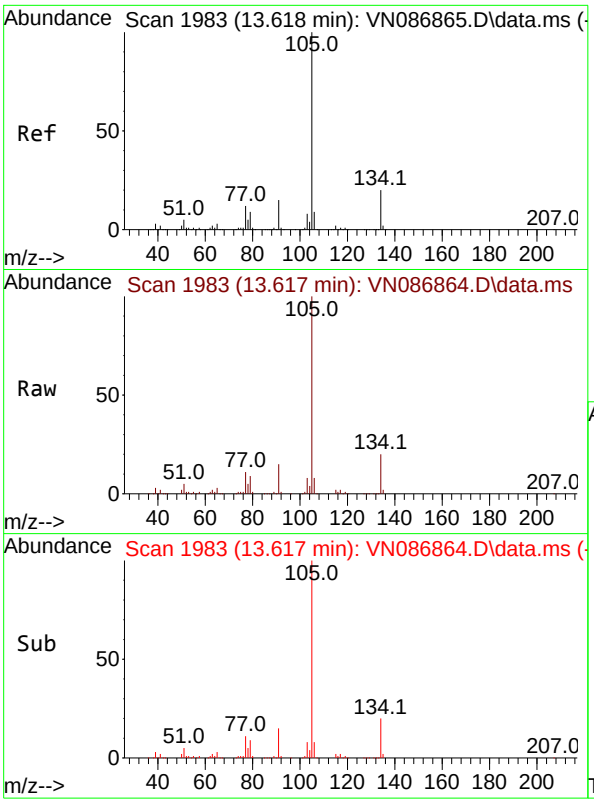


#84
1,2,4-Trimethylbenzene
Concen: 20.315 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:105 Resp: 221990

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.2	69.6



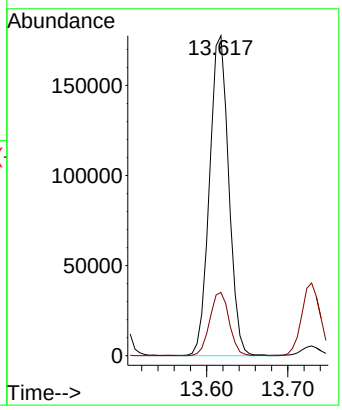


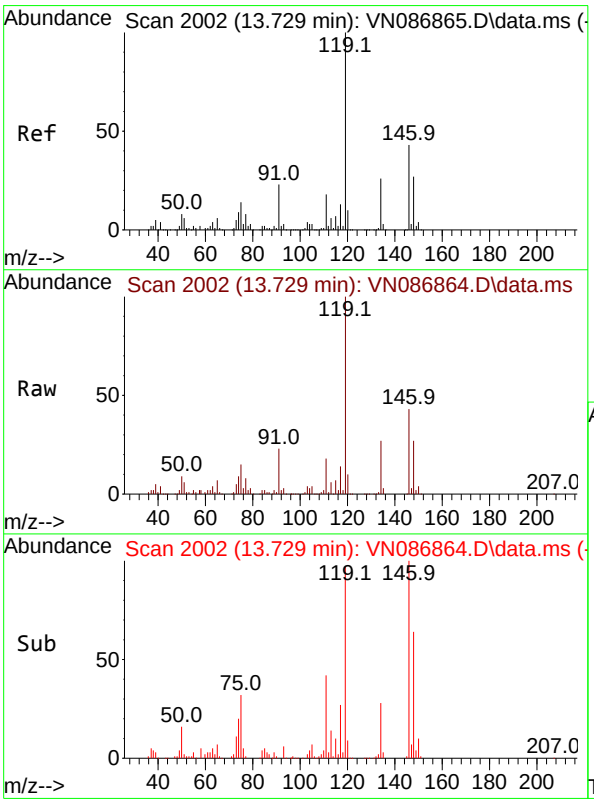
#85
sec-Butylbenzene
Concen: 20.196 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 292563

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	30.0

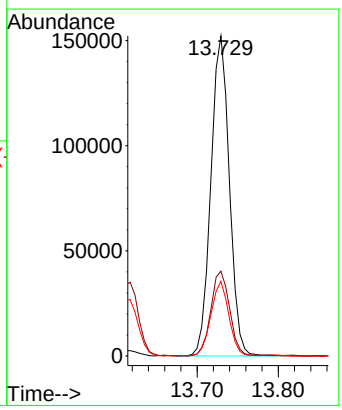


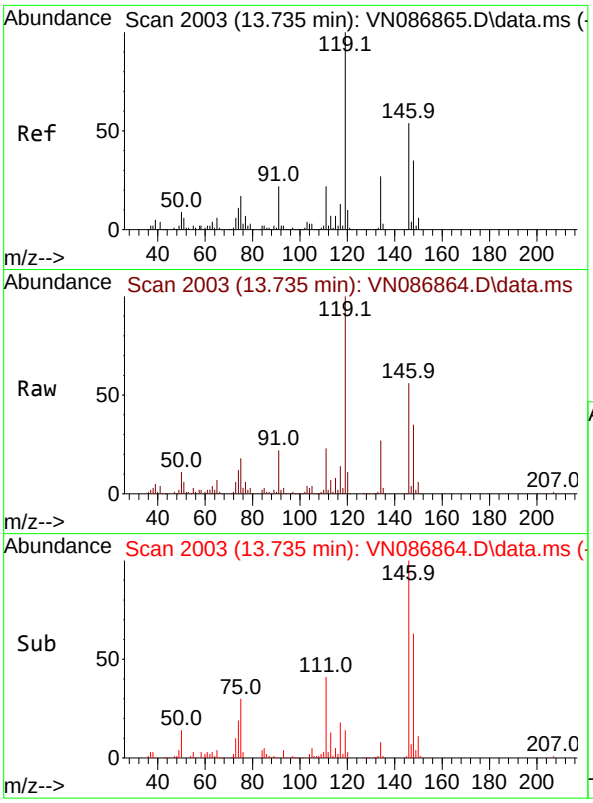


#86
p-Isopropyltoluene
Concen: 20.099 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:119 Resp: 240682

Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.5	40.4
91	22.7	11.5	34.4



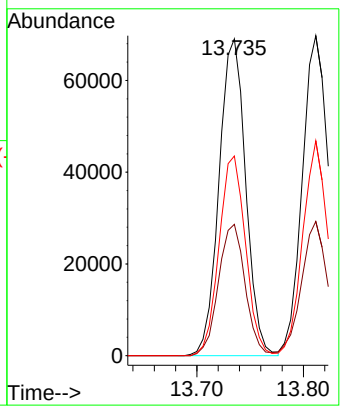


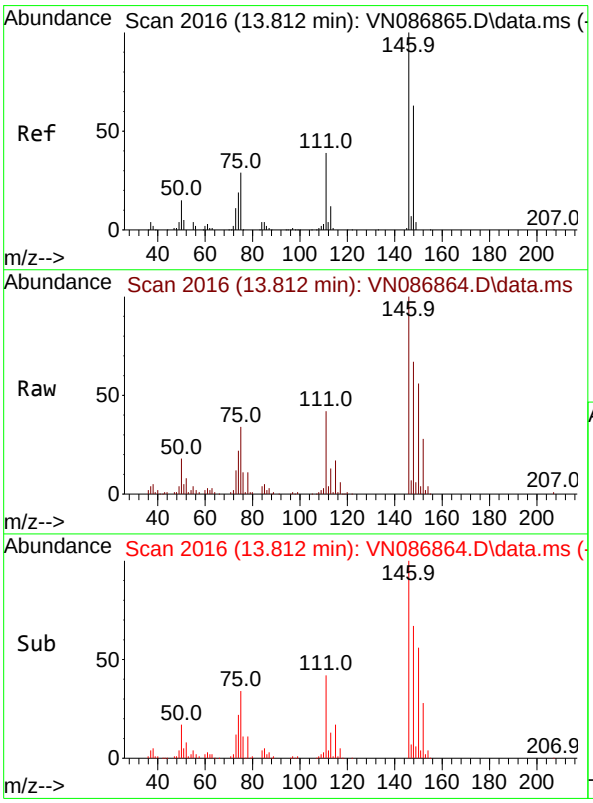
#87
1,3-Dichlorobenzene
Concen: 20.166 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 120099

Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.9	62.8
148	62.5	32.0	96.2

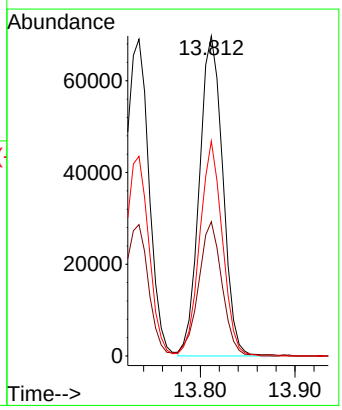


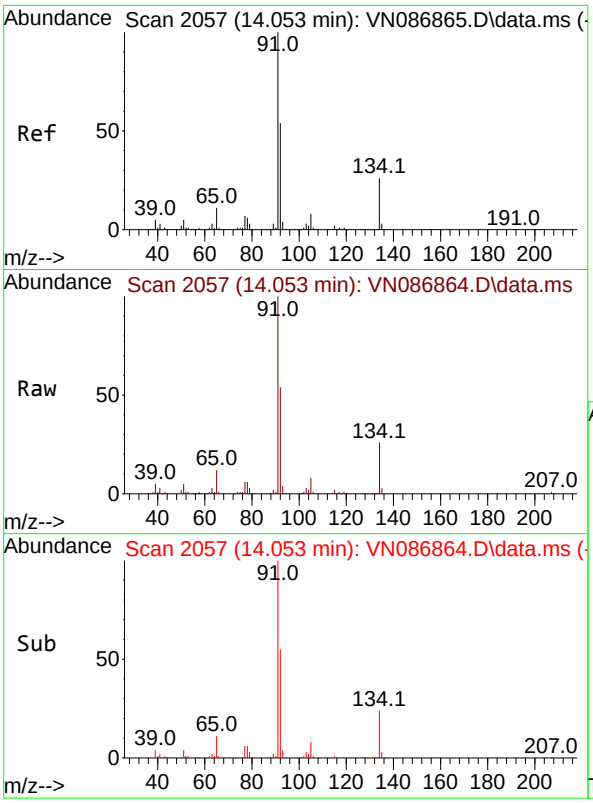


#88
1,4-Dichlorobenzene
Concen: 19.780 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:146 Resp: 120102

Ion	Ratio	Lower	Upper
146	100		
111	42.5	19.9	59.7
148	64.7	31.8	95.4



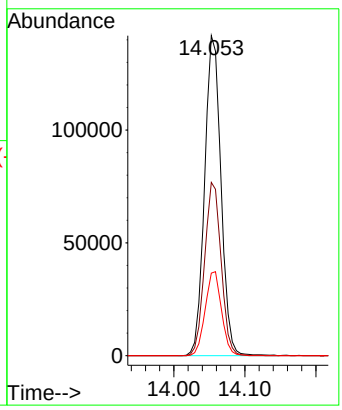


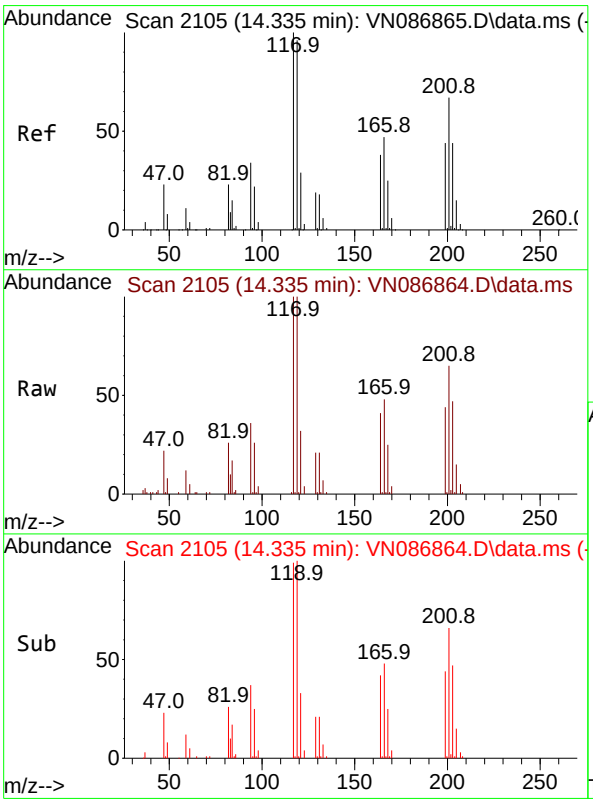
#89
n-Butylbenzene
Concen: 19.617 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 227536

Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.5	82.4
134	26.2	13.0	39.0

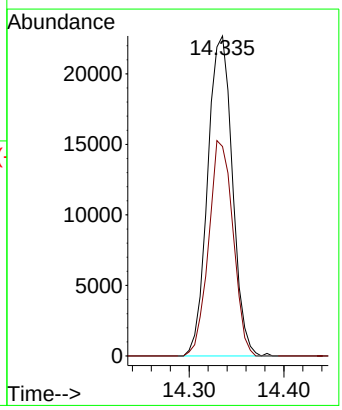


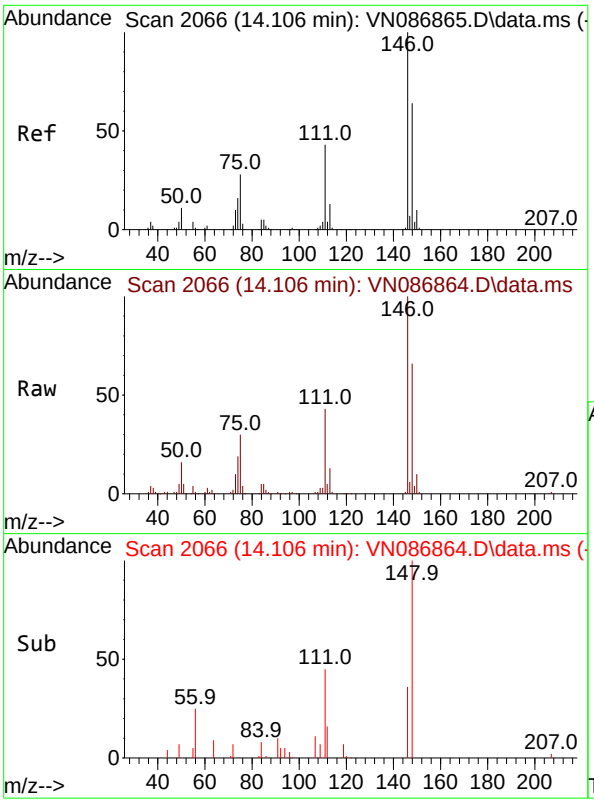


#90
Hexachloroethane
Concen: 20.299 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:117 Resp: 41202

Ion	Ratio	Lower	Upper
117	100		
201	66.2	33.2	99.6



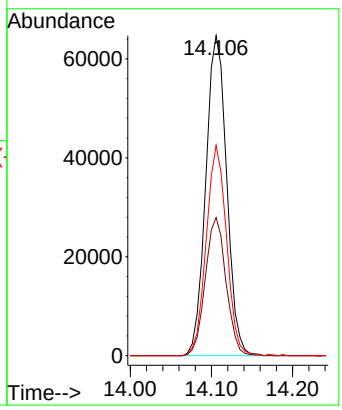


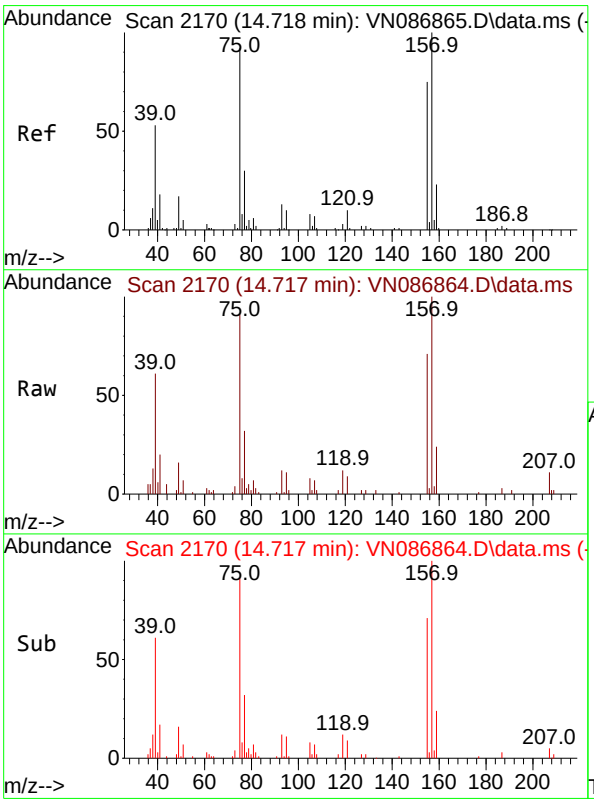
#91
1,2-Dichlorobenzene
Concen: 20.212 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 115645

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.6	64.6
148	63.9	31.7	95.1

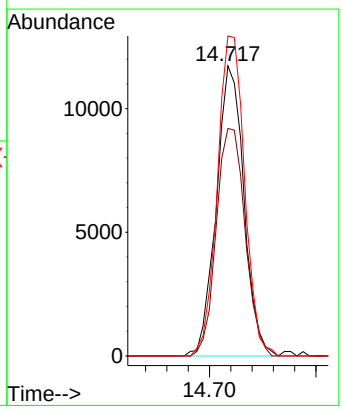


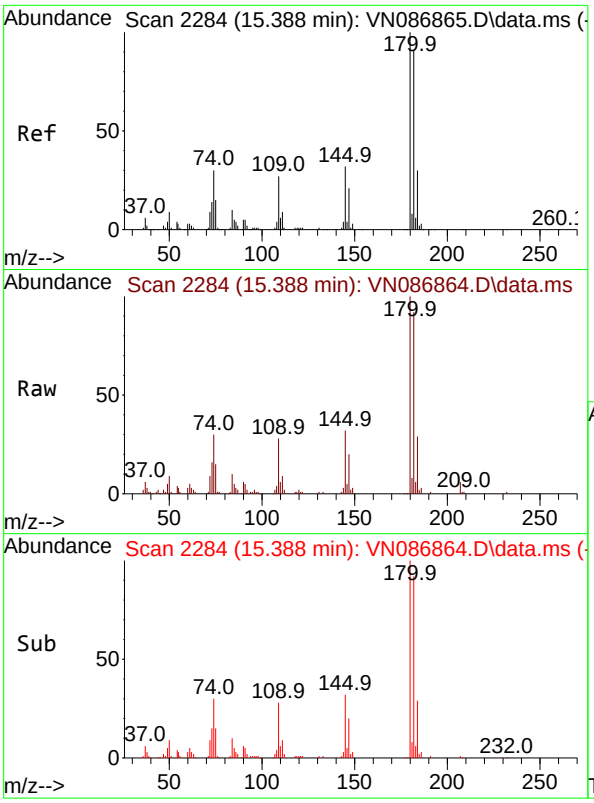


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.661 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 75 Resp: 21025

Ion	Ratio	Lower	Upper
75	100		
155	81.8	41.1	123.4
157	109.0	52.7	158.1



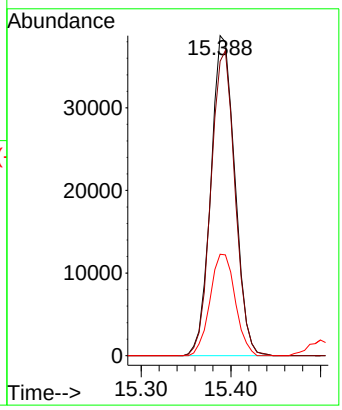


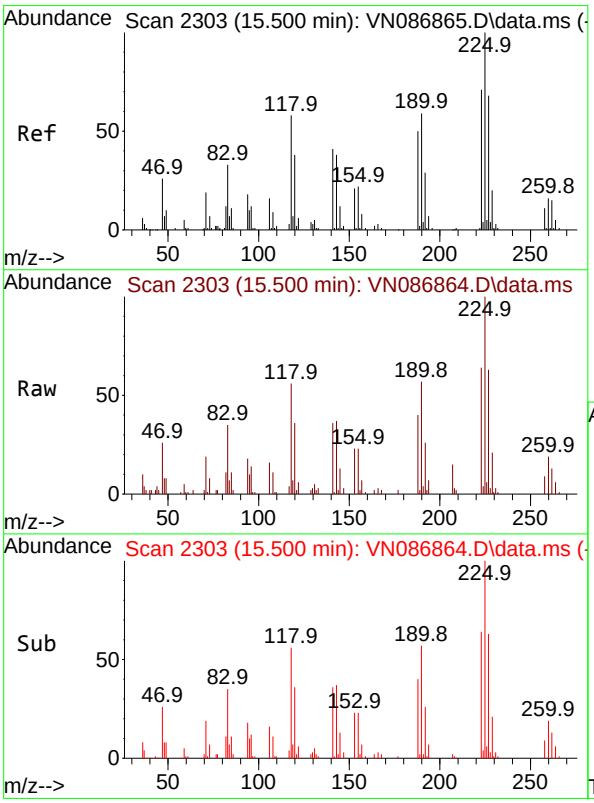
#93
1,2,4-Trichlorobenzene
Concen: 19.659 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 71826

Ion	Ratio	Lower	Upper
180	100		
182	95.4	46.9	140.7
145	33.3	16.0	47.9

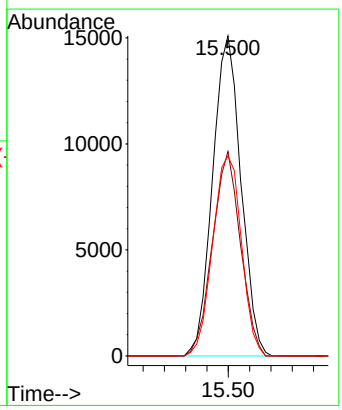


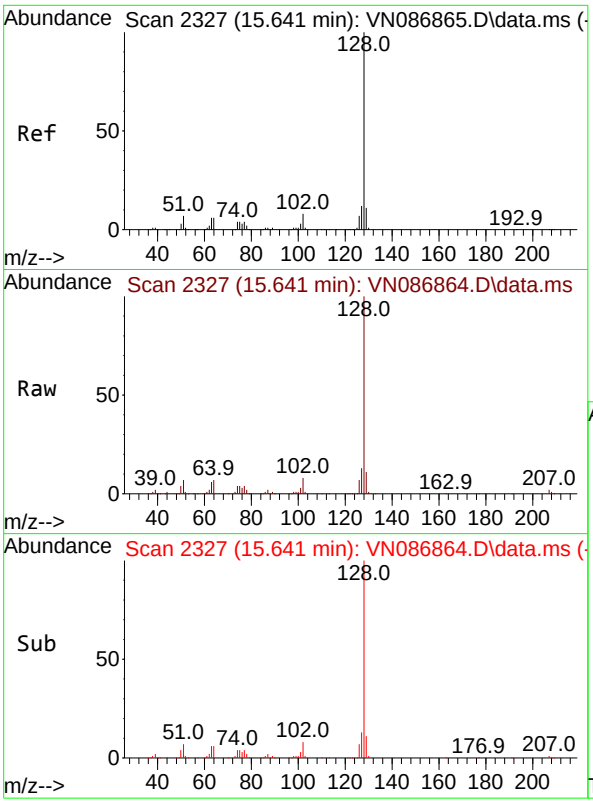


#94
Hexachlorobutadiene
Concen: 20.486 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:225 Resp: 27887

Ion	Ratio	Lower	Upper
225	100		
223	63.0	33.5	100.4
227	63.3	31.1	93.5



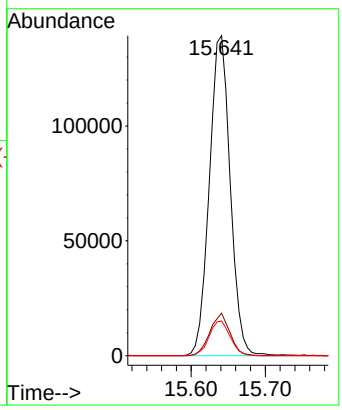


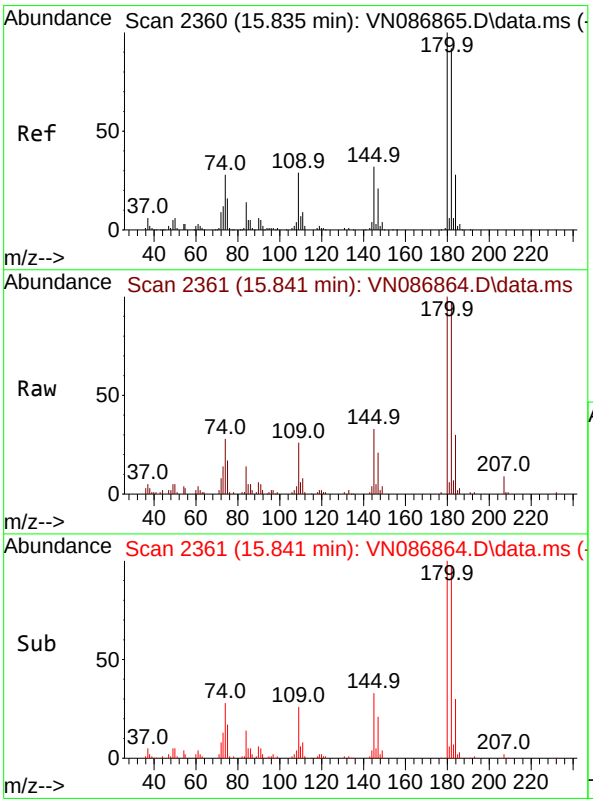
#95
Naphthalene
Concen: 20.043 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 272584

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2

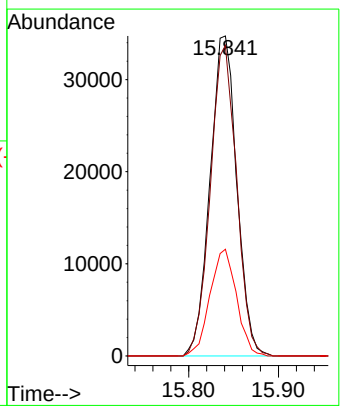




#96
1,2,3-Trichlorobenzene
Concen: 19.815 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:180 Resp: 71929

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.0	141.0
145	33.1	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086865.D
Acq On : 06 Jun 2025 14:03
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Jun 07 01:57:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.236	168	207354	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	378587	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	332766	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167532	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	103736	37.366	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 74.740%			
35) Dibromofluoromethane	8.171	113	83058	37.020	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 74.040%#			
50) Toluene-d8	10.571	98	326105	36.716	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 73.440%#			
62) 4-Bromofluorobenzene	12.847	95	122965	37.264	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 74.520%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	103958	50.283	ug/l	100
3) Chloromethane	2.395	50	123866	46.397	ug/l	100
4) Vinyl Chloride	2.554	62	132783	48.215	ug/l	100
5) Bromomethane	2.995	94	73974	47.999	ug/l	100
6) Chloroethane	3.154	64	84505	47.504	ug/l	100
7) Trichlorofluoromethane	3.524	101	172860	48.041	ug/l	100
8) Diethyl Ether	3.983	74	75193	47.963	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.395	101	107695	47.640	ug/l	100
10) Methyl Iodide	4.606	142	141678	48.346	ug/l	100
11) Tert butyl alcohol	5.548	59	182315	242.020	ug/l	100
12) 1,1-Dichloroethene	4.359	96	110549	47.900	ug/l	100
13) Acrolein	4.201	56	47026	197.217	ug/l	100
14) Allyl chloride	5.042	41	179313	46.848	ug/l	100
15) Acrylonitrile	5.742	53	421941	239.638	ug/l	100
16) Acetone	4.448	43	333857	226.765	ug/l	100
17) Carbon Disulfide	4.730	76	295753	46.328	ug/l	100
18) Methyl Acetate	5.042	43	204538	47.673	ug/l	100
19) Methyl tert-butyl Ether	5.812	73	400775	47.960	ug/l	100
20) Methylene Chloride	5.295	84	125498	45.531	ug/l	100
21) trans-1,2-Dichloroethene	5.806	96	117660	45.822	ug/l	100
22) Diisopropyl ether	6.689	45	384939	47.711	ug/l	100
23) Vinyl Acetate	6.618	43	1649023	241.910	ug/l	100
24) 1,1-Dichloroethane	6.583	63	220477	47.485	ug/l	100
25) 2-Butanone	7.494	43	571221	238.693	ug/l	100
26) 2,2-Dichloropropane	7.500	77	187567	51.933	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	144911	47.189	ug/l	100
28) Bromochloromethane	7.824	49	96707	42.362	ug/l	100
29) Tetrahydrofuran	7.853	42	371357	238.210	ug/l	100
30) Chloroform	7.977	83	220093	47.467	ug/l	100
31) Cyclohexane	8.271	56	208105	46.217	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	185502	47.037	ug/l	100
36) 1,1-Dichloropropene	8.377	75	158341	47.362	ug/l	100
37) Ethyl Acetate	7.577	43	203091	47.720	ug/l	100
38) Carbon Tetrachloride	8.371	117	154677	47.126	ug/l	100
39) Methylcyclohexane	9.606	83	215849	47.126	ug/l	100
40) Benzene	8.612	78	509334	46.590	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086865.D
Acq On : 06 Jun 2025 14:03
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Jun 07 01:57:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.789	41	114727	48.000	ug/l		100
42) 1,2-Dichloroethane	8.677	62	155713	46.960	ug/l		100
43) Isopropyl Acetate	8.694	43	322741	47.248	ug/l		100
44) Trichloroethene	9.359	130	123847	47.776	ug/l		100
45) 1,2-Dichloropropane	9.630	63	125673	47.251	ug/l		100
46) Dibromomethane	9.718	93	83811	47.442	ug/l		100
47) Bromodichloromethane	9.894	83	173200	47.651	ug/l		100
48) Methyl methacrylate	9.683	41	149019	47.399	ug/l		100
49) 1,4-Dioxane	9.700	88	59060	1032.607	ug/l	#	100
51) 4-Methyl-2-Pentanone	10.447	43	1017688	247.484	ug/l		100
52) Toluene	10.635	92	316219	47.331	ug/l		100
53) t-1,3-Dichloropropene	10.841	75	197475	48.587	ug/l		100
54) cis-1,3-Dichloropropene	10.318	75	208523	47.950	ug/l		100
55) 1,1,2-Trichloroethane	11.018	97	121969	47.445	ug/l		100
56) Ethyl methacrylate	10.882	69	210467	51.401	ug/l		100
57) 1,3-Dichloropropane	11.165	76	212243	47.593	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.165	63	519139	212.570	ug/l		100
59) 2-Hexanone	11.200	43	696567	262.977	ug/l		100
60) Dibromochloromethane	11.359	129	128715	48.056	ug/l		100
61) 1,2-Dibromoethane	11.471	107	124522	47.258	ug/l		100
64) Tetrachloroethene	11.106	164	97679	46.382	ug/l		100
65) Chlorobenzene	11.894	112	340439	46.386	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.965	131	112333	47.615	ug/l		100
67) Ethyl Benzene	11.965	91	597593	47.271	ug/l		100
68) m/p-Xylenes	12.071	106	466620	96.424	ug/l		100
69) o-Xylene	12.400	106	224299	48.395	ug/l		100
70) Styrene	12.412	104	386596	48.745	ug/l		100
71) Bromoform	12.582	173	88127	50.415	ug/l	#	100
73) Isopropylbenzene	12.694	105	573905	47.023	ug/l		100
74) N-amyl acetate	12.512	43	212064	52.353	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.941	83	197360	47.732	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	267483	66.959	ug/l		68
77) Bromobenzene	12.982	156	132381	47.296	ug/l		100
78) n-propylbenzene	13.035	91	705524	47.567	ug/l		100
79) 2-Chlorotoluene	13.124	91	419986	47.216	ug/l		100
80) 1,3,5-Trimethylbenzene	13.171	105	485499	48.181	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	79732	46.089	ug/l		100
82) 4-Chlorotoluene	13.224	91	424066	47.117	ug/l		100
83) tert-Butylbenzene	13.435	119	438417	47.531	ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	488189	48.314	ug/l		100
85) sec-Butylbenzene	13.618	105	641523	47.893	ug/l		100
86) p-Isopropyltoluene	13.729	119	533366	48.169	ug/l		100
87) 1,3-Dichlorobenzene	13.735	146	260310	47.269	ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	263358	46.907	ug/l		100
89) n-Butylbenzene	14.053	91	512519	47.787	ug/l		100
90) Hexachloroethane	14.335	117	89896	47.896	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	251235	47.486	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.718	75	45535	46.049	ug/l		100
93) 1,2,4-Trichlorobenzene	15.388	180	162374	48.061	ug/l		100
94) Hexachlorobutadiene	15.500	225	60866	48.356	ug/l		100
95) Naphthalene	15.641	128	603088	47.958	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	159113	47.402	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086865.D
Acq On : 06 Jun 2025 14:03
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Jun 07 01:57:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

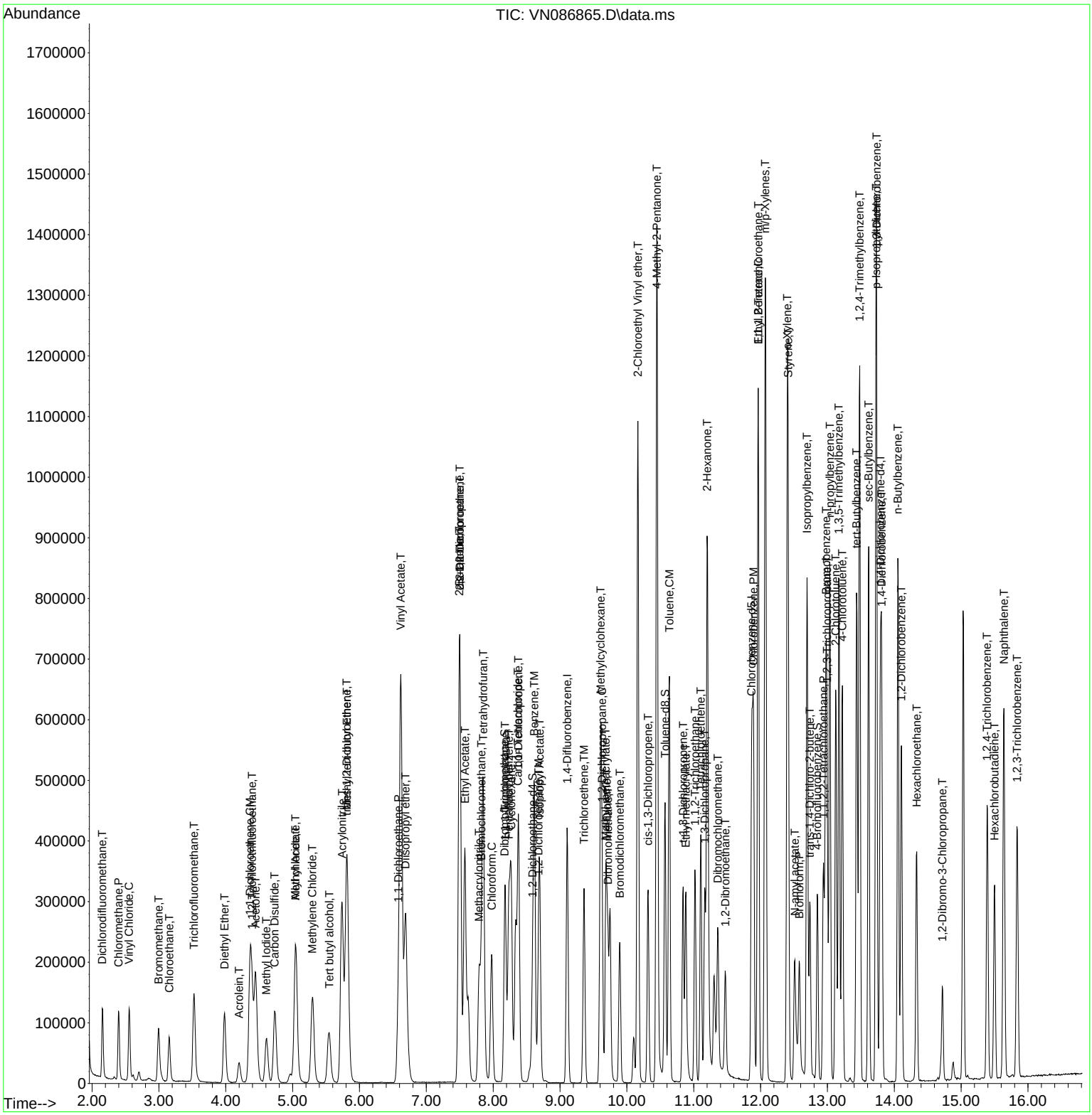
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

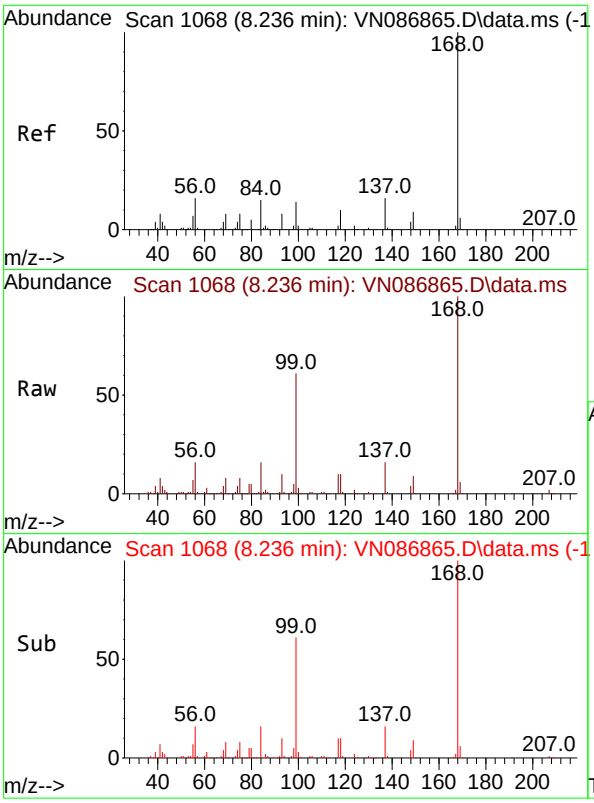
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086865.D
Acq On : 06 Jun 2025 14:03
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Quant Time: Jun 07 01:57:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration



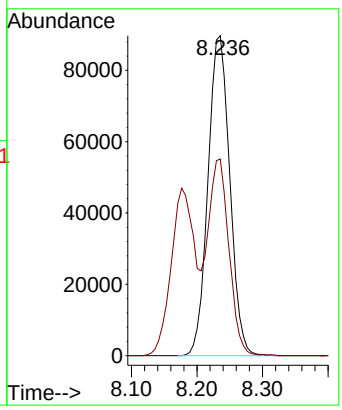


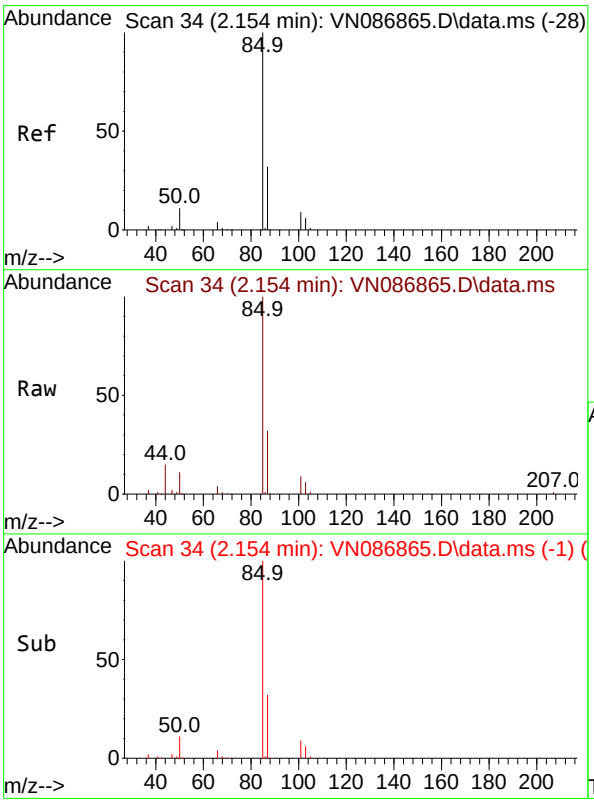
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 207354

Ion	Ratio	Lower	Upper
168	100		
99	61.4	49.1	73.7

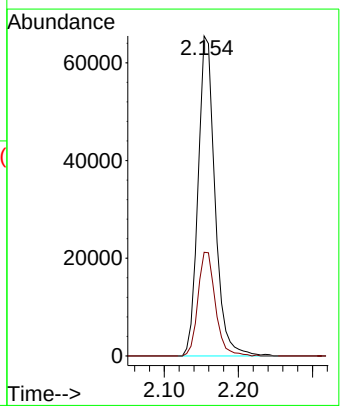


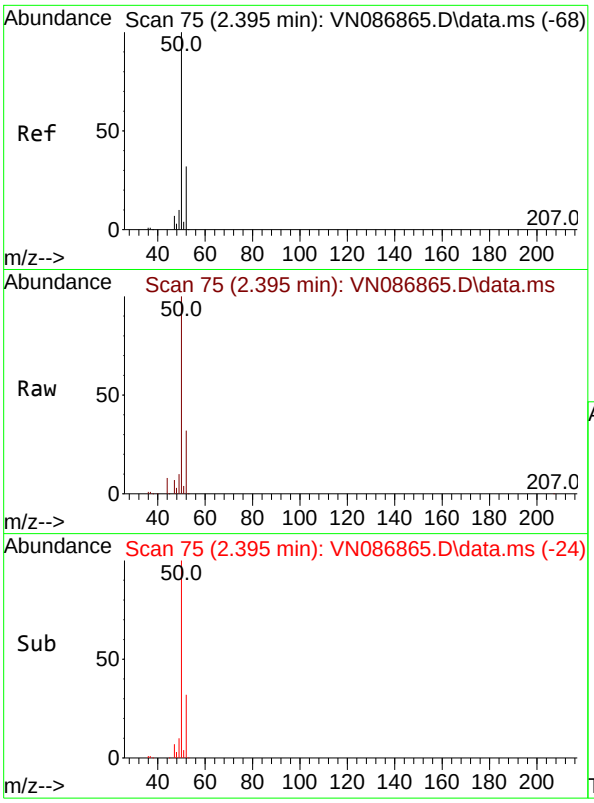


#2
Dichlorodifluoromethane
Concen: 50.283 ug/l
RT: 2.154 min Scan# 34
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 85 Resp: 103958

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.2	48.6



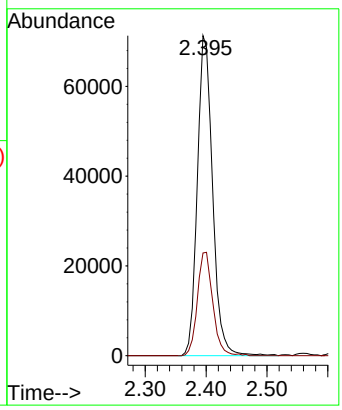


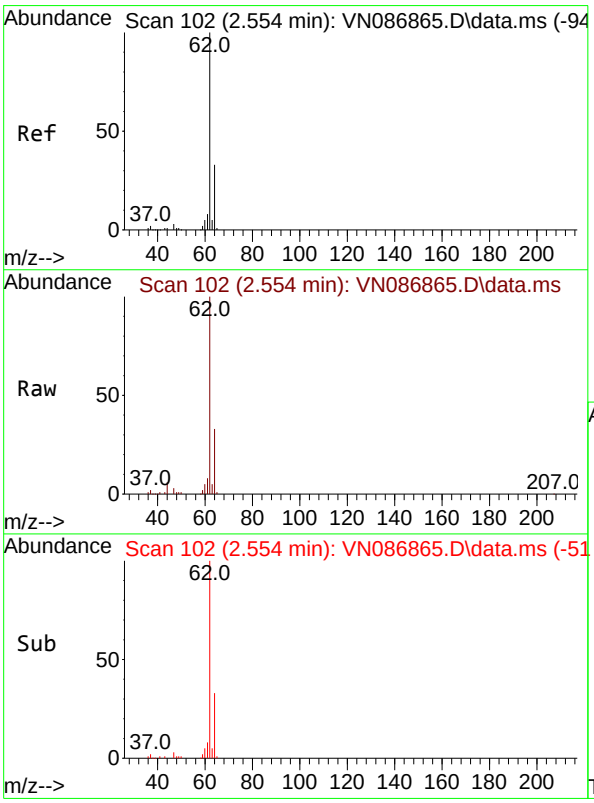
#3
Chloromethane
Concen: 46.397 ug/l
RT: 2.395 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 123866

Ion	Ratio	Lower	Upper
50	100		
52	32.1	25.7	38.5

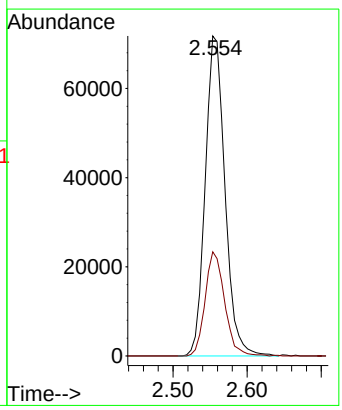


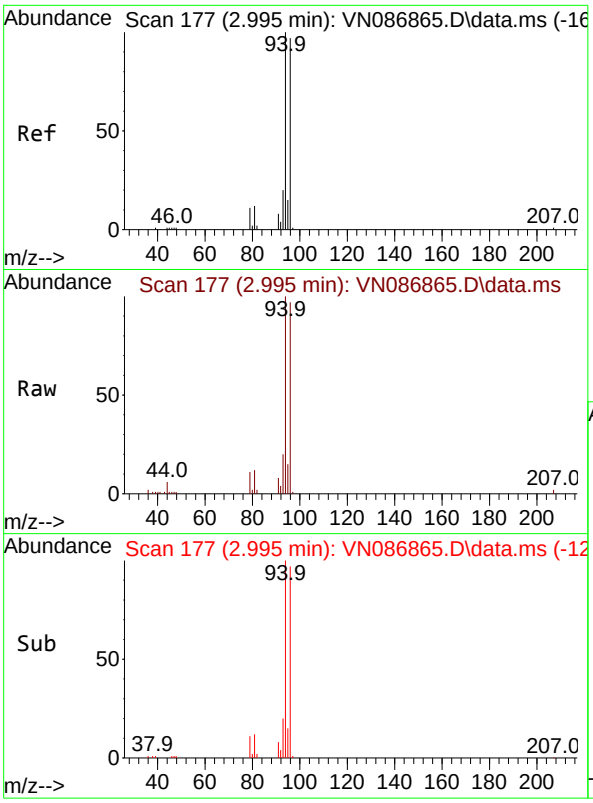


#4
Vinyl Chloride
Concen: 48.215 ug/l
RT: 2.554 min Scan# 102
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 62 Resp: 132783

Ion	Ratio	Lower	Upper
62	100		
64	32.5	26.0	39.0



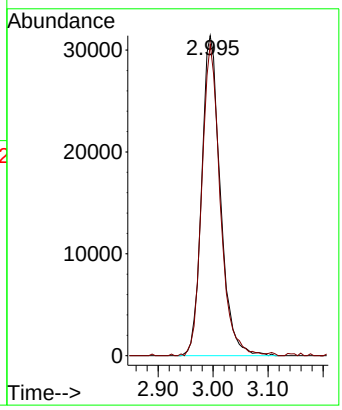


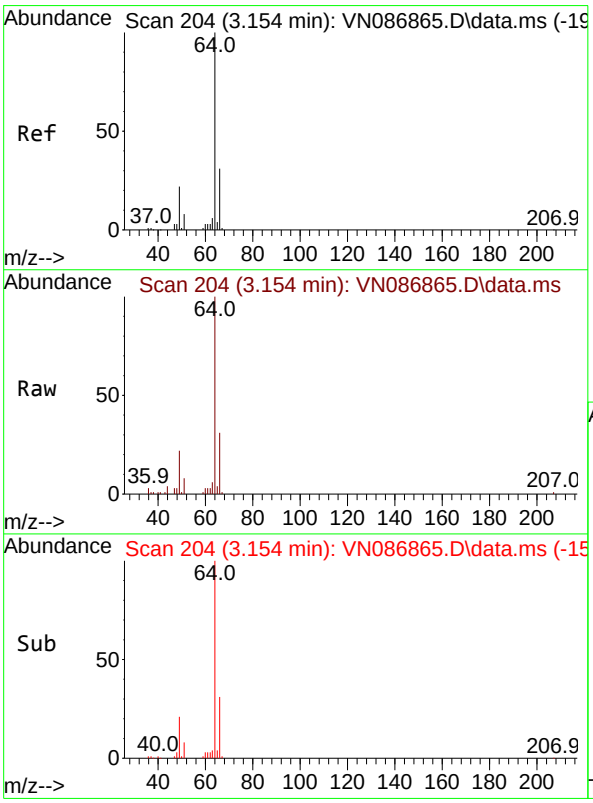
#5
Bromomethane
Concen: 47.999 ug/l
RT: 2.995 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 73974

Ion	Ratio	Lower	Upper
94	100		
96	97.4	77.9	116.9

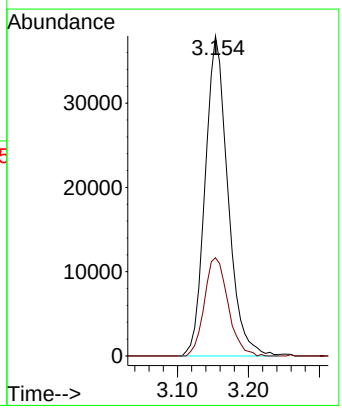


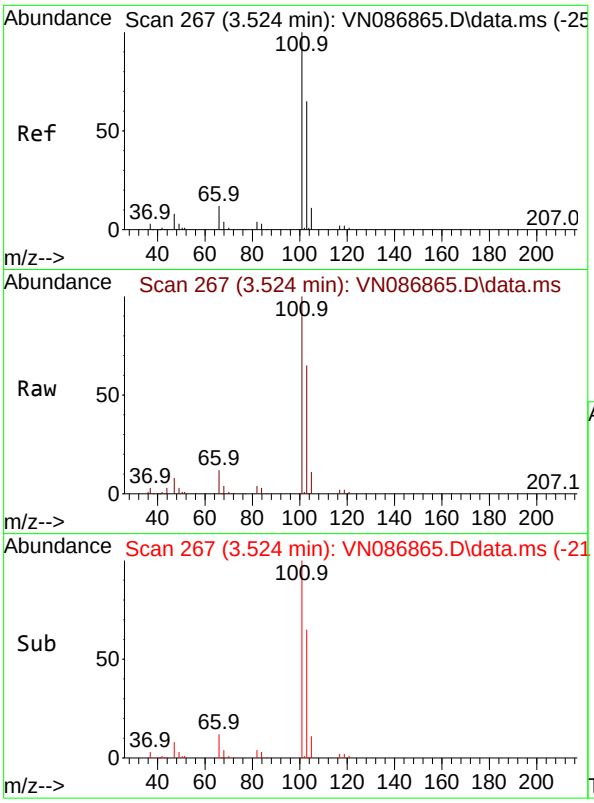


#6
Chloroethane
Concen: 47.504 ug/l
RT: 3.154 min Scan# 204
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 64 Resp: 84505

Ion	Ratio	Lower	Upper
64	100		
66	30.7	24.6	36.8



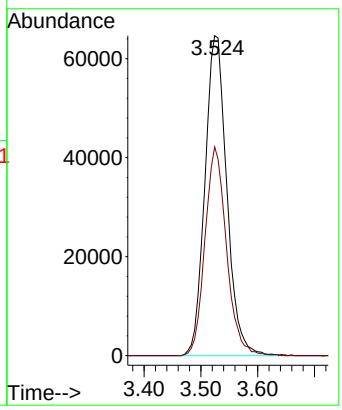


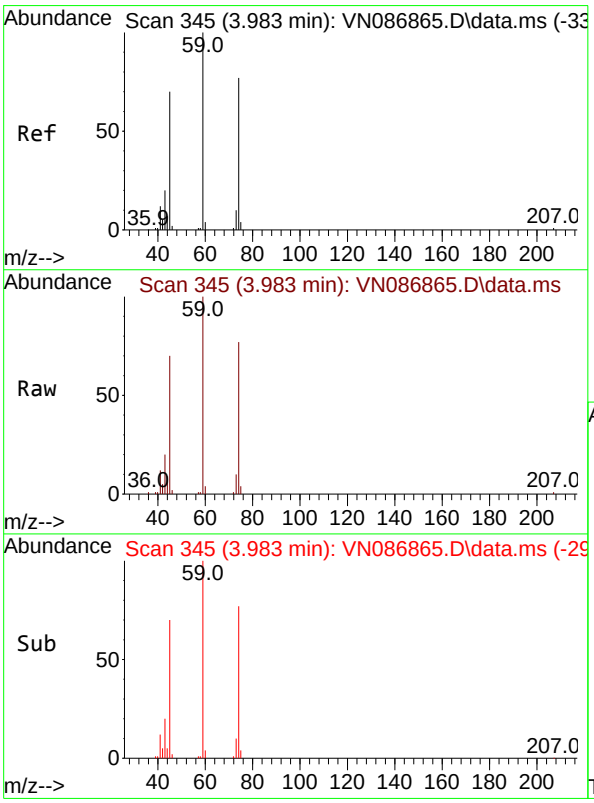
#7
Trichlorofluoromethane
Concen: 48.041 ug/l
RT: 3.524 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 172860

Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.2	78.2

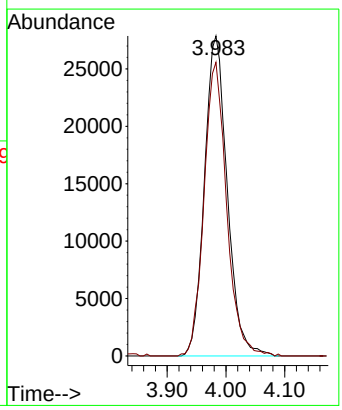


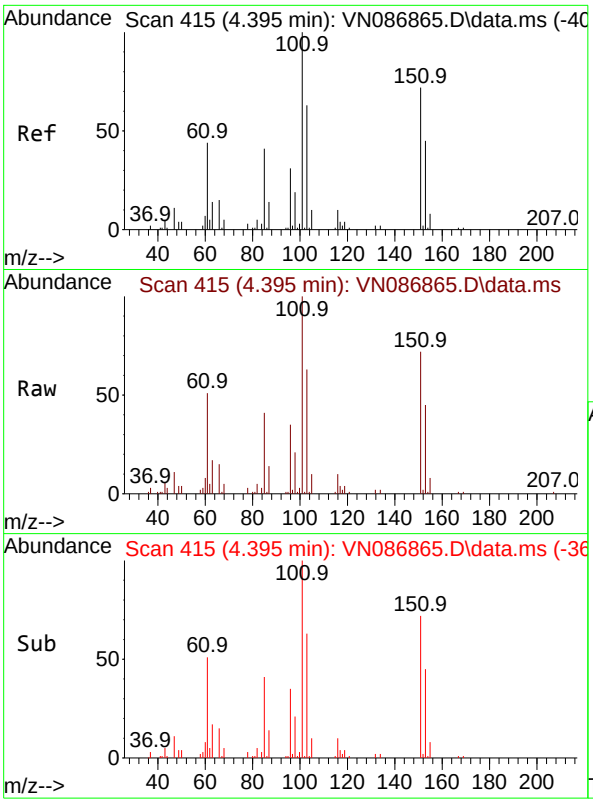


#8
Diethyl Ether
Concen: 47.963 ug/l
RT: 3.983 min Scan# 345
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 74 Resp: 75193

Ion	Ratio	Lower	Upper
74	100		
45	91.0	45.5	136.5



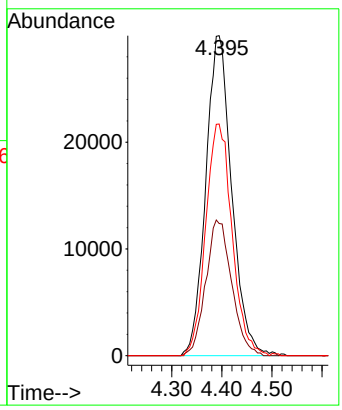


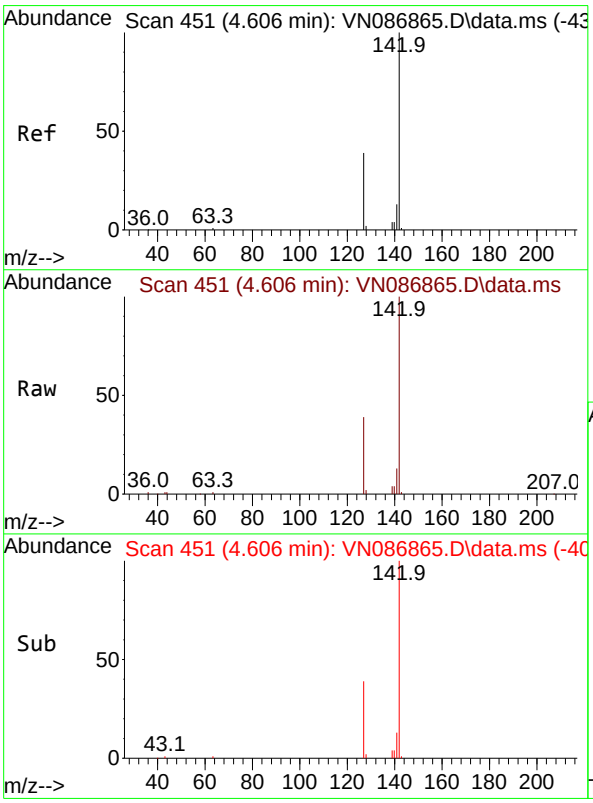
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.640 ug/l
RT: 4.395 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 107695

Ion	Ratio	Lower	Upper
101	100		
85	42.3	33.8	50.8
151	73.4	58.7	88.1

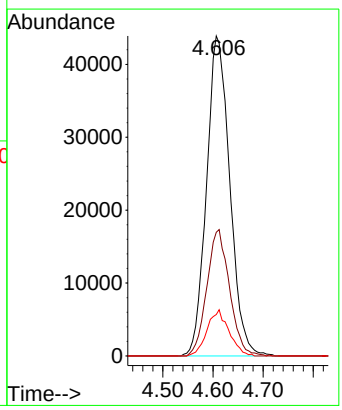


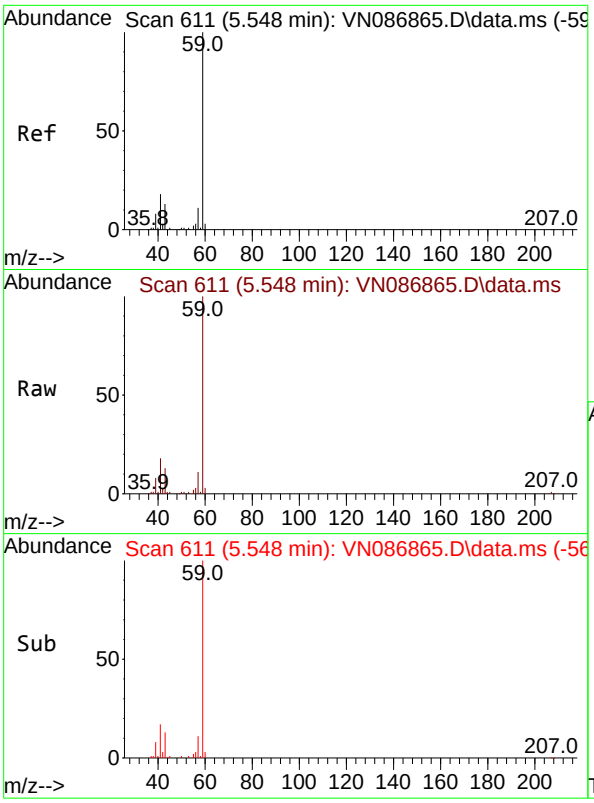


#10
Methyl Iodide
Concen: 48.346 ug/l
RT: 4.606 min Scan# 451
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:142 Resp: 141678

Ion	Ratio	Lower	Upper
142	100		
127	38.6	30.9	46.3
141	13.0	10.4	15.6



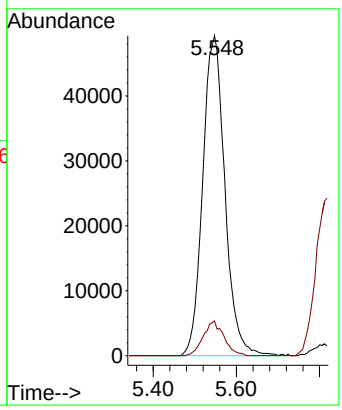


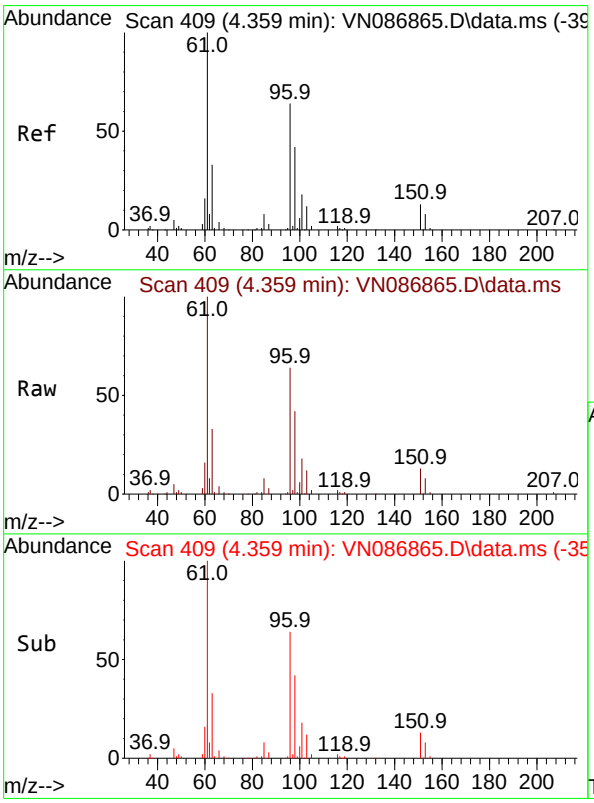
#11
Tert butyl alcohol
Concen: 242.020 ug/l
RT: 5.548 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 59 Resp: 182315

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.1	12.1

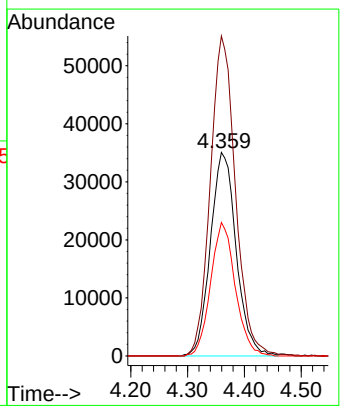


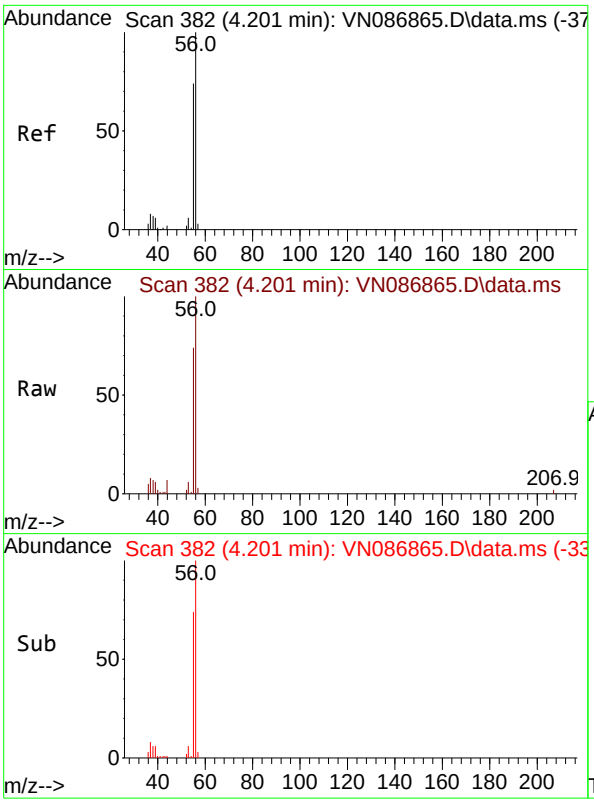


#12
1,1-Dichloroethene
Concen: 47.900 ug/l
RT: 4.359 min Scan# 409
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 96 Resp: 110549

Ion	Ratio	Lower	Upper
96	100		
61	157.2	125.8	188.6
98	65.6	52.5	78.7



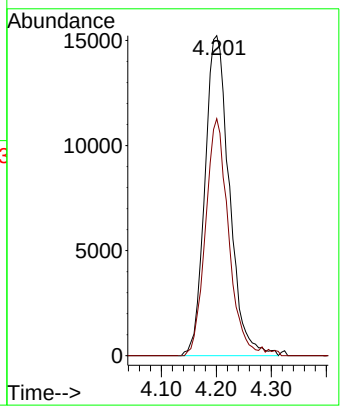


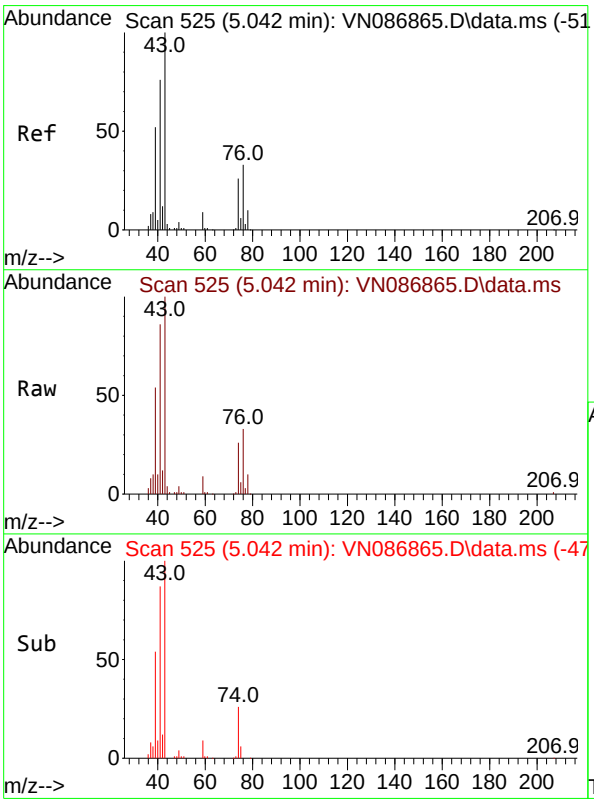
#13
Acrolein
Concen: 197.217 ug/l
RT: 4.201 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 47026

Ion	Ratio	Lower	Upper
56	100		
55	69.5	55.6	83.4

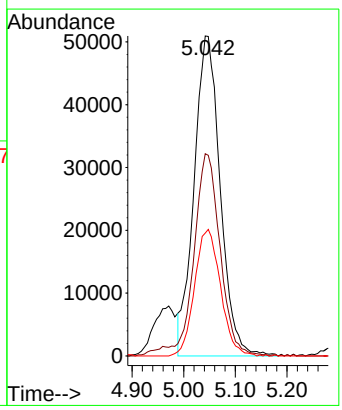


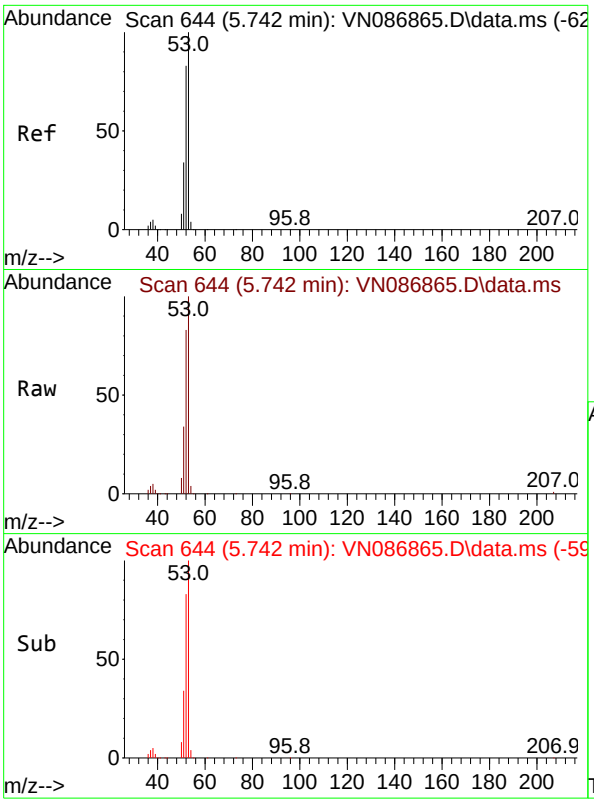


#14
Allyl chloride
Concen: 46.848 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 41 Resp: 179313

Ion	Ratio	Lower	Upper
41	100		
39	64.1	51.3	76.9
76	39.2	31.4	47.0



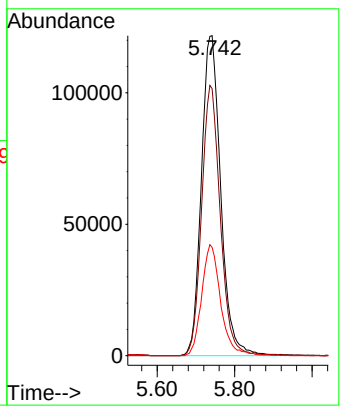


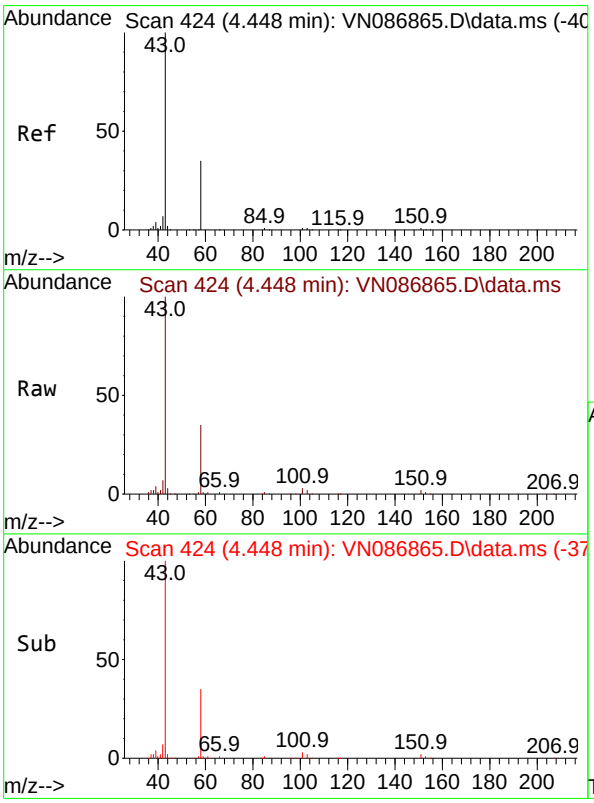
#15
Acrylonitrile
Concen: 239.638 ug/l
RT: 5.742 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 53 Resp: 421941

Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.0	97.6
51	34.0	27.2	40.8

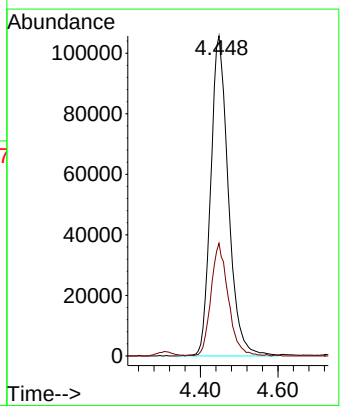


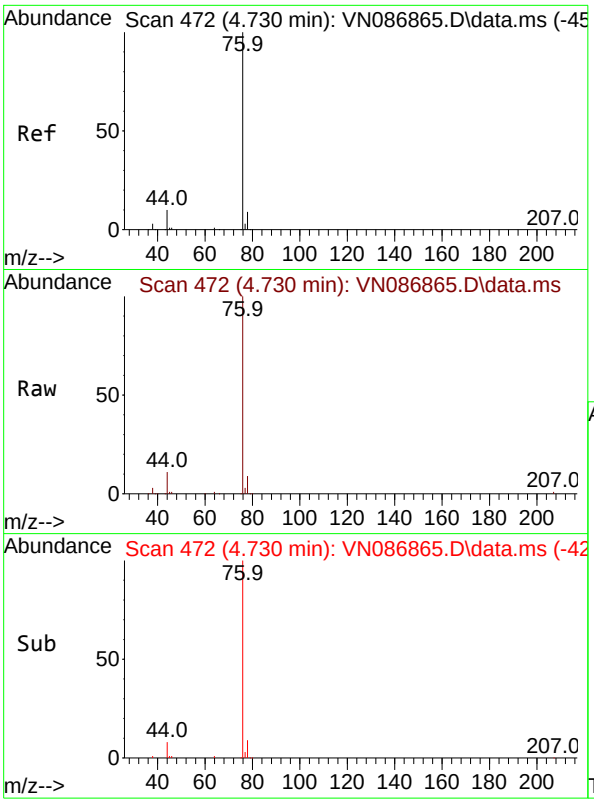


#16
Acetone
Concen: 226.765 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 43 Resp: 333857

Ion	Ratio	Lower	Upper
43	100		
58	35.0	28.0	42.0



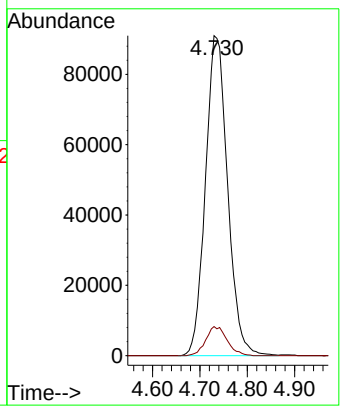


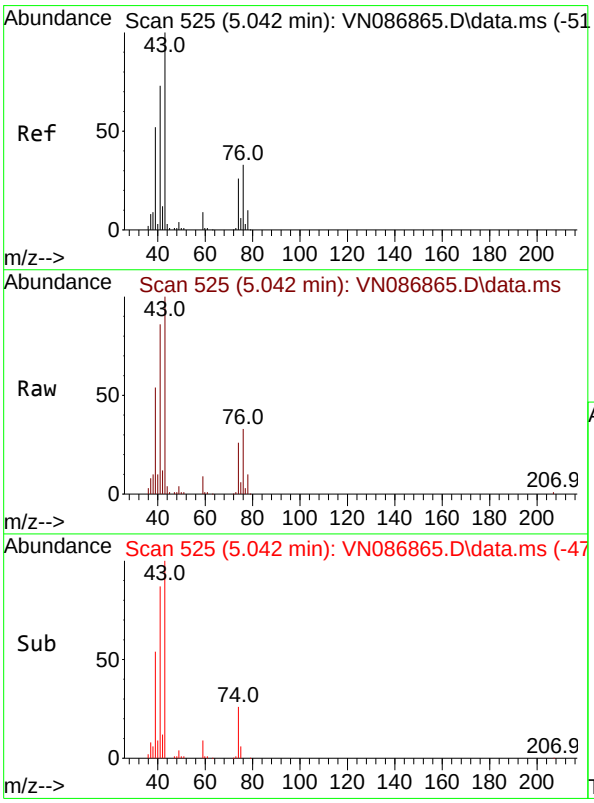
#17
Carbon Disulfide
Concen: 46.328 ug/l
RT: 4.730 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 295753

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9

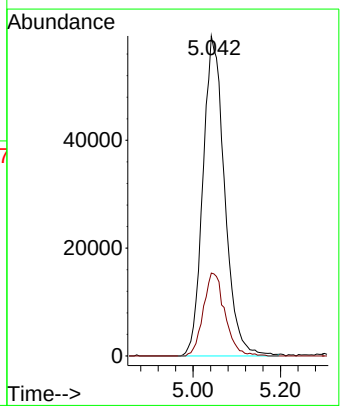


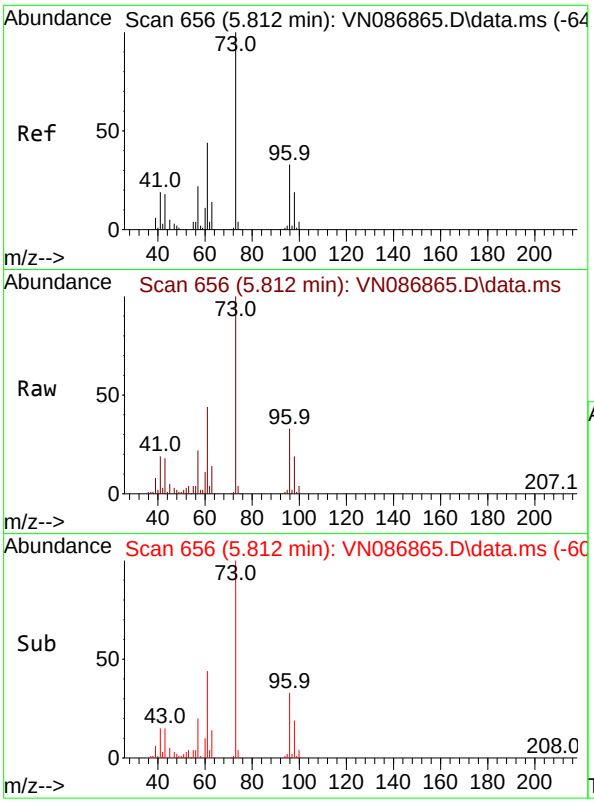


#18
Methyl Acetate
Concen: 47.673 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 43 Resp: 204538

Ion	Ratio	Lower	Upper
43	100		
74	25.9	20.7	31.1



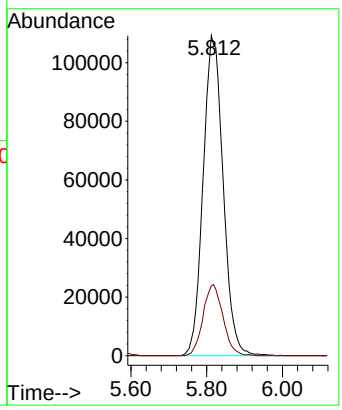


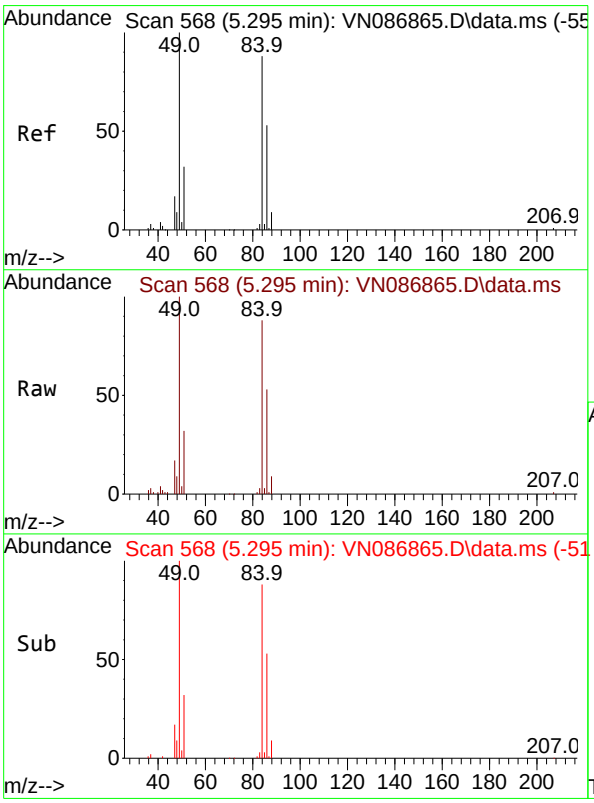
#19
Methyl tert-butyl Ether
Concen: 47.960 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 400775

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2

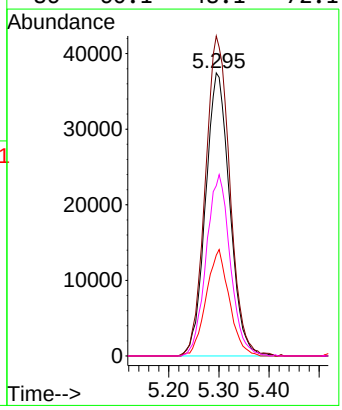


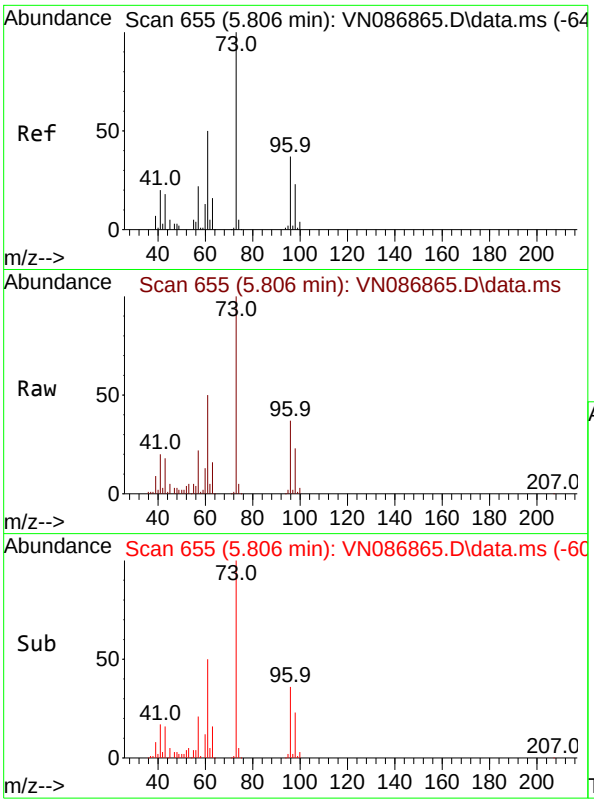


#20
Methylene Chloride
Concen: 45.531 ug/l
RT: 5.295 min Scan# 568
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 84 Resp: 125498

Ion	Ratio	Lower	Upper
84	100		
49	113.1	90.5	135.7
51	35.6	28.5	42.7
86	60.1	48.1	72.1



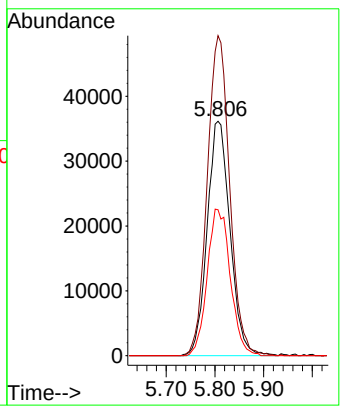


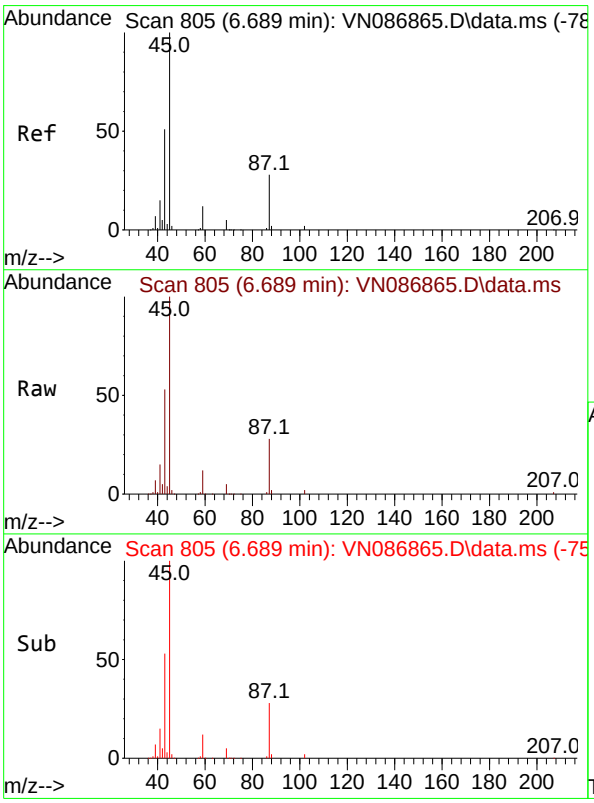
#21
trans-1,2-Dichloroethene
Concen: 45.822 ug/l
RT: 5.806 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 117660

Ion	Ratio	Lower	Upper
96	100		
61	136.5	109.2	163.8
98	62.3	49.8	74.8

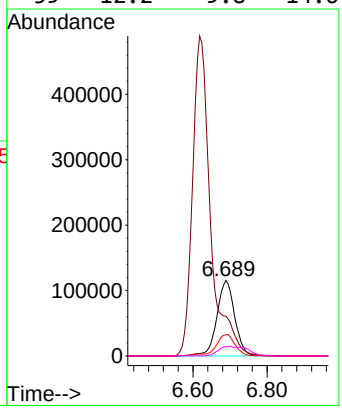


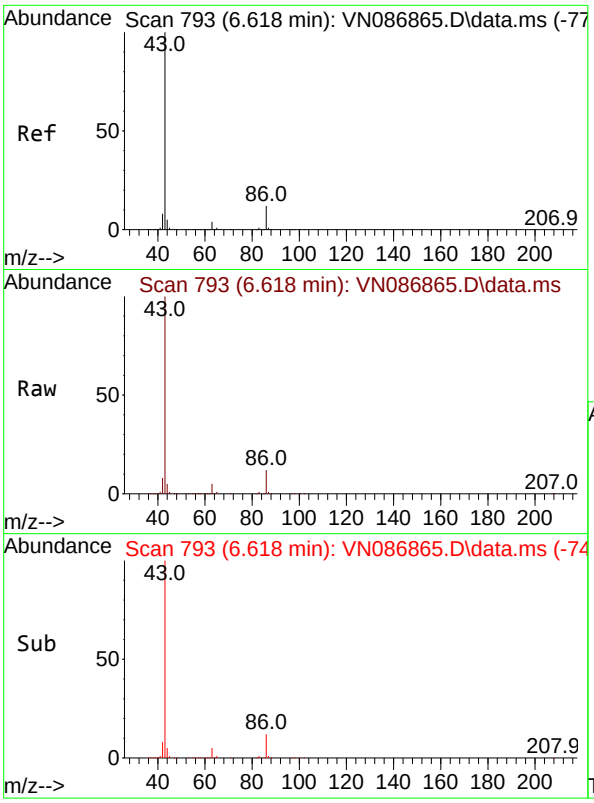


#22
Diisopropyl ether
Concen: 47.711 ug/l
RT: 6.689 min Scan# 805
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 45 Resp: 384939

Ion	Ratio	Lower	Upper
45	100		
43	52.4	41.9	62.9
87	28.0	22.4	33.6
59	12.2	9.8	14.6



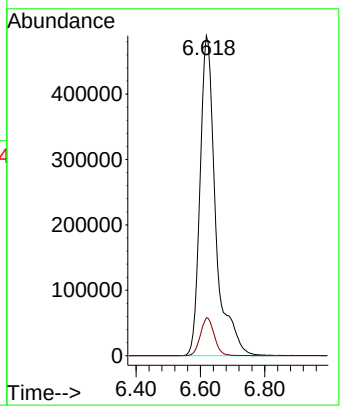


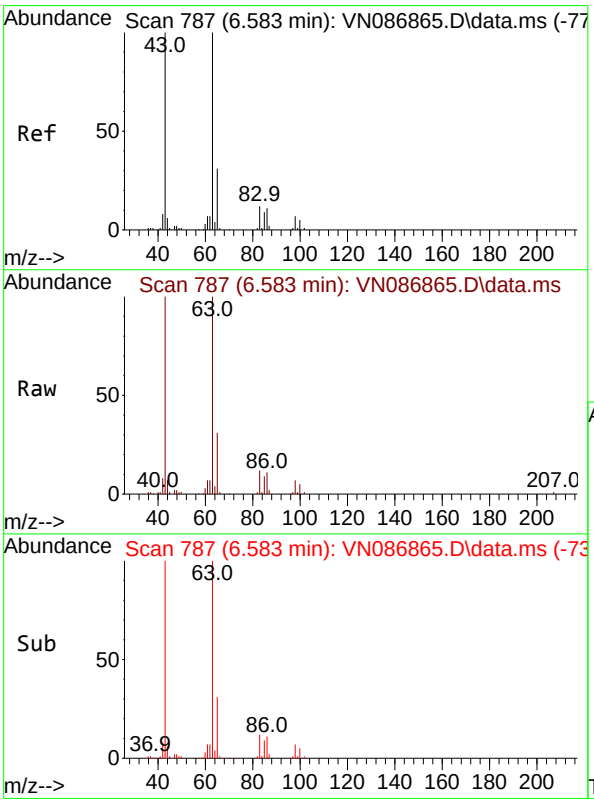
#23
Vinyl Acetate
Concen: 241.910 ug/l
RT: 6.618 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1649023

Ion	Ratio	Lower	Upper
43	100		
86	11.9	9.5	14.3

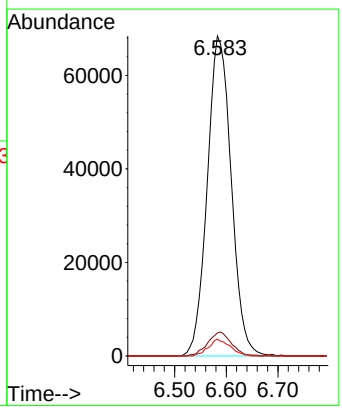


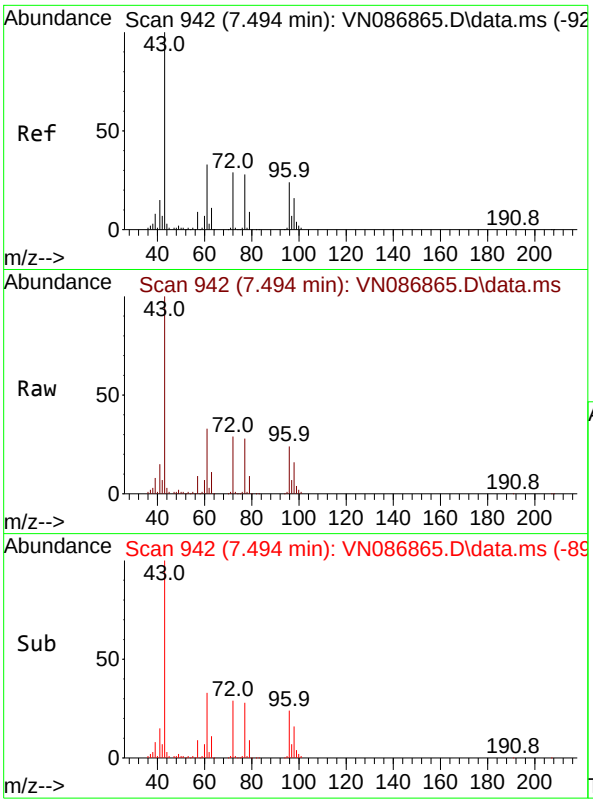


#24
1,1-Dichloroethane
Concen: 47.485 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 63 Resp: 220477

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	5.2	2.6	7.8



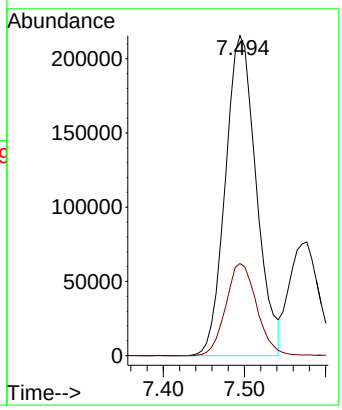


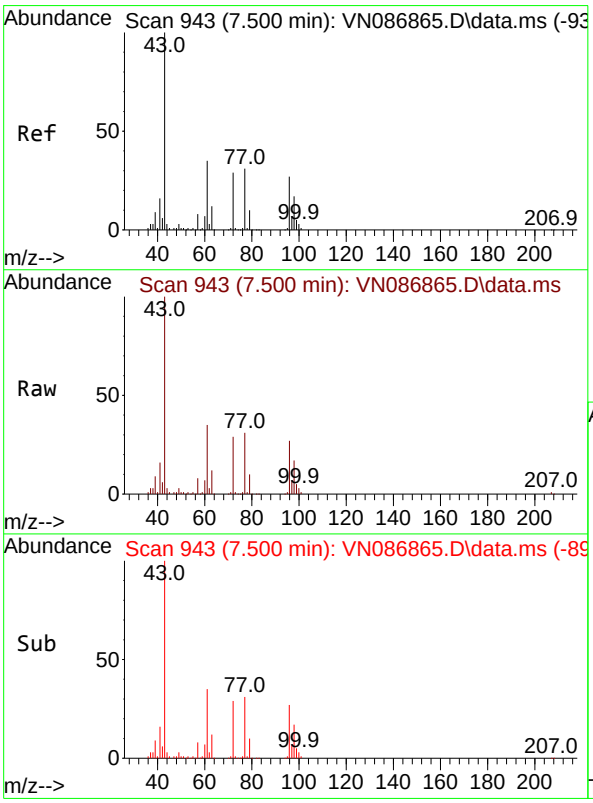
#25
2-Butanone
Concen: 238.693 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 571221

Ion	Ratio	Lower	Upper
43	100		
72	28.8	23.0	34.6

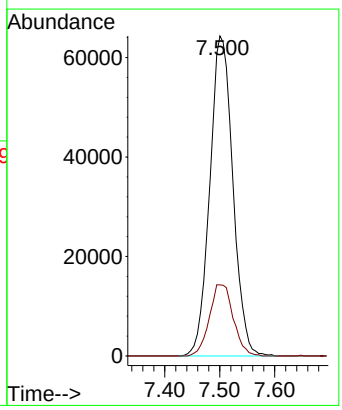


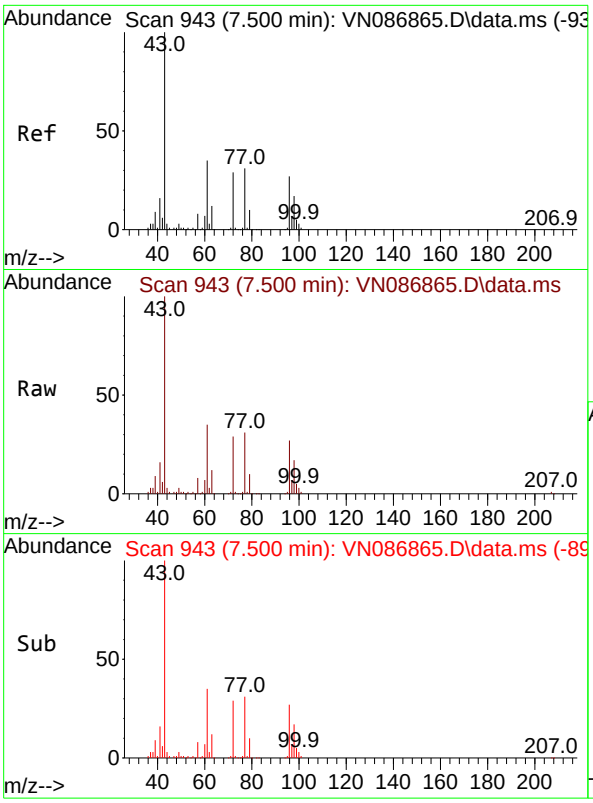


#26
2,2-Dichloropropane
Concen: 51.933 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 77 Resp: 187567

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.6	34.7



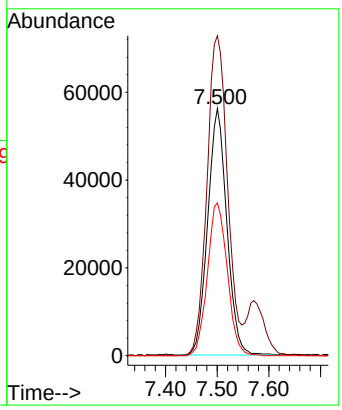


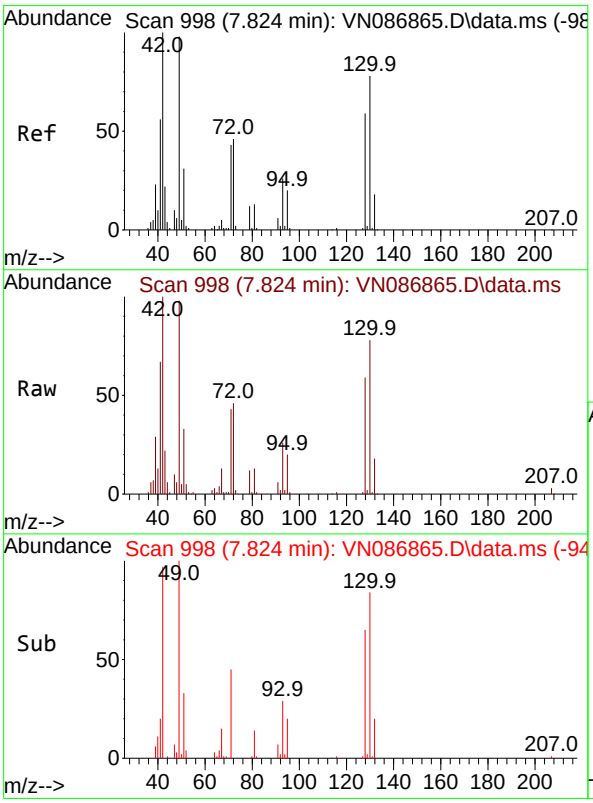
#27
cis-1,2-Dichloroethene
Concen: 47.189 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 144911

Ion	Ratio	Lower	Upper
96	100		
61	139.0	0.0	278.0
98	64.1	0.0	128.2

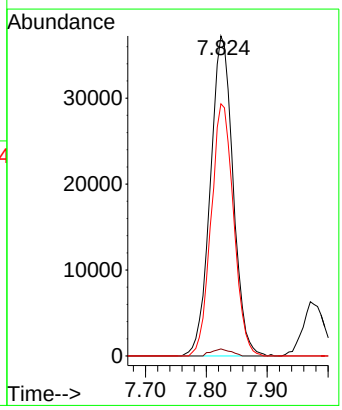


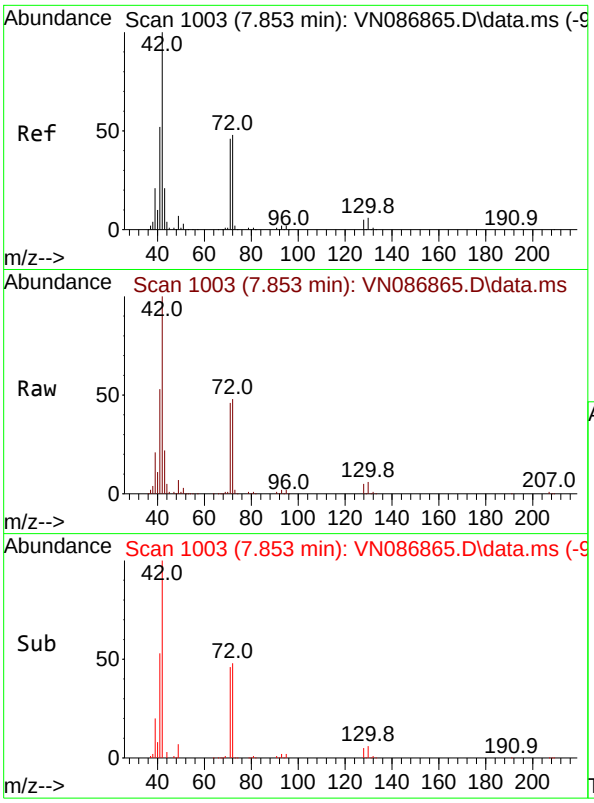


#28
Bromochloromethane
Concen: 42.362 ug/l
RT: 7.824 min Scan# 998
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 49 Resp: 96707

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	77.7	62.2	93.2



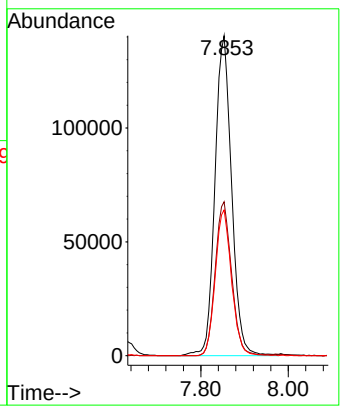


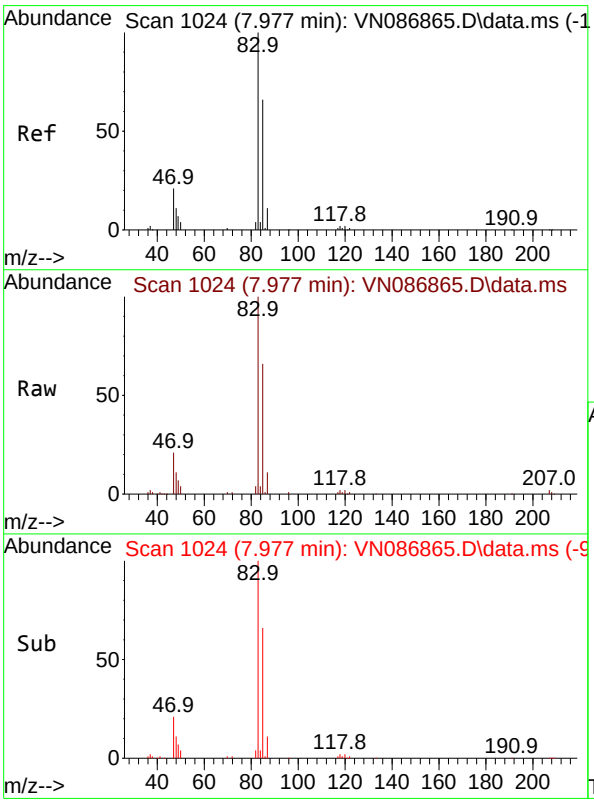
#29
Tetrahydrofuran
Concen: 238.210 ug/l
RT: 7.853 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 42 Resp: 371357

Ion	Ratio	Lower	Upper
42	100		
72	47.2	37.8	56.6
71	44.5	35.6	53.4

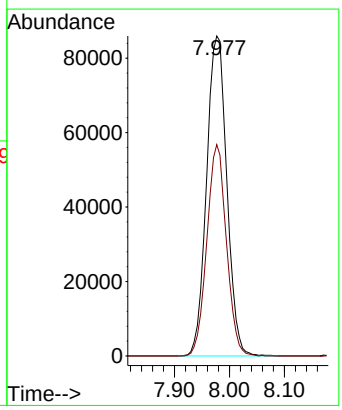


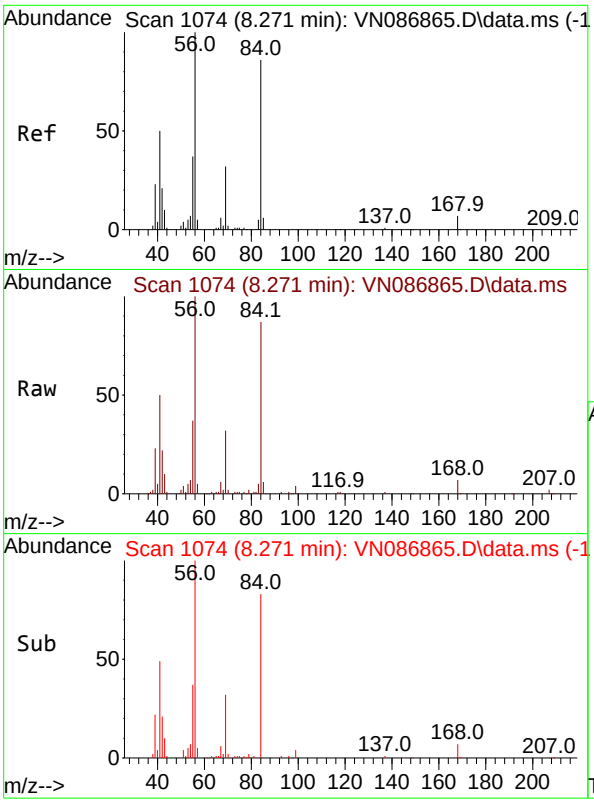


#30
Chloroform
Concen: 47.467 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 83 Resp: 220093

Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.9	79.3



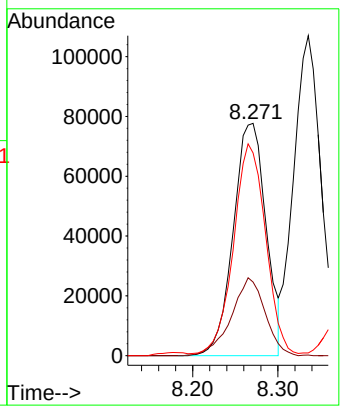


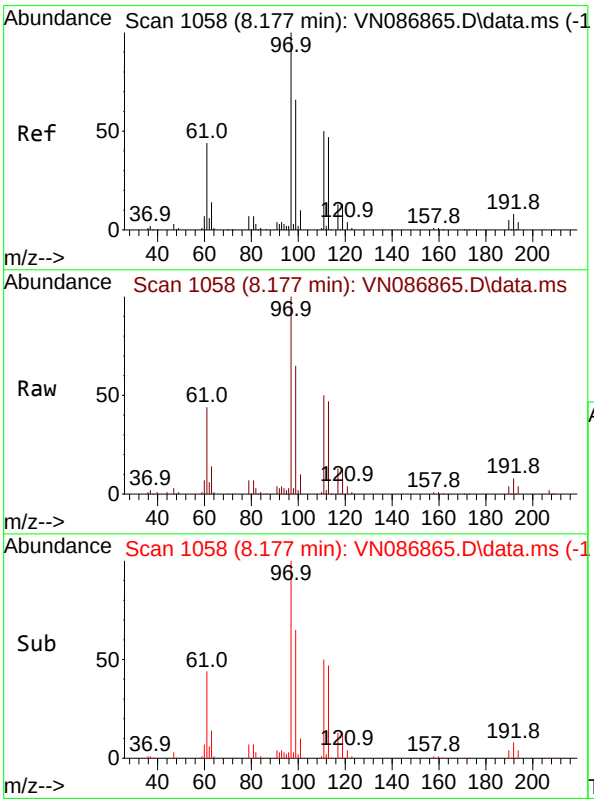
#31
Cyclohexane
Concen: 46.217 ug/l
RT: 8.271 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 208105

Ion	Ratio	Lower	Upper
56	100		
69	31.7	25.4	38.0
84	86.0	68.8	103.2

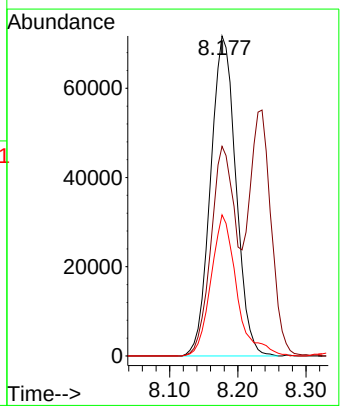


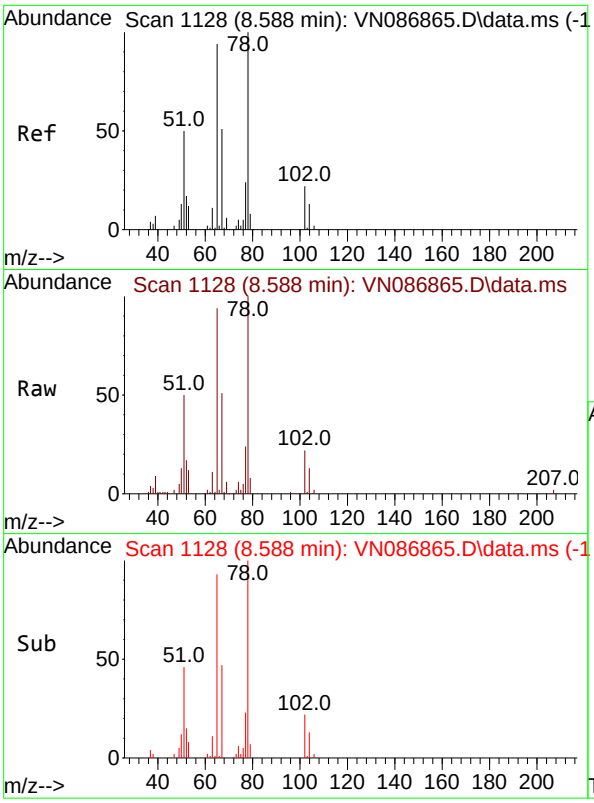


#32
1,1,1-Trichloroethane
Concen: 47.037 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 97 Resp: 185502

Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.0	78.0
61	44.9	35.9	53.9



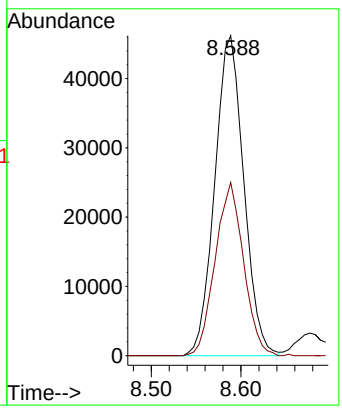


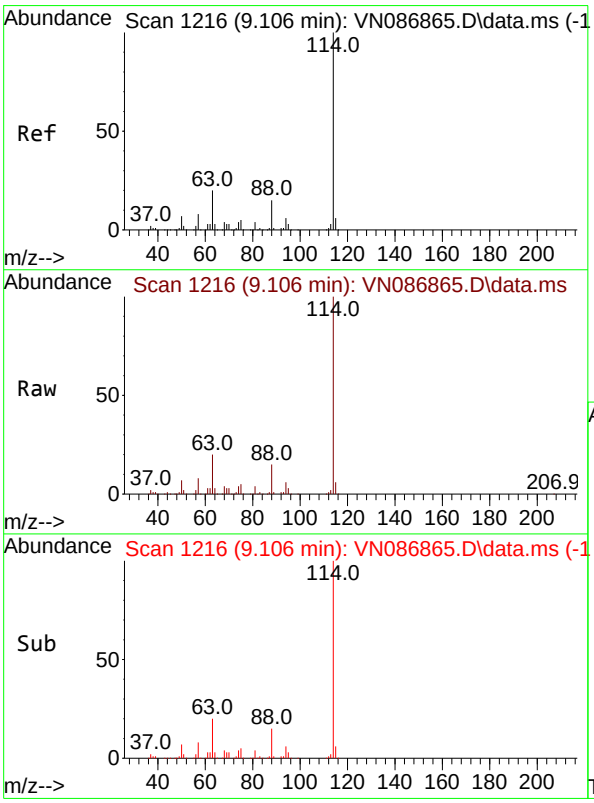
#33
1,2-Dichloroethane-d4
Concen: 37.366 ug/l
RT: 8.588 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 65 Resp: 103736

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	105.6

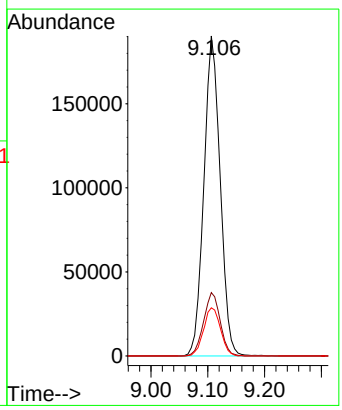


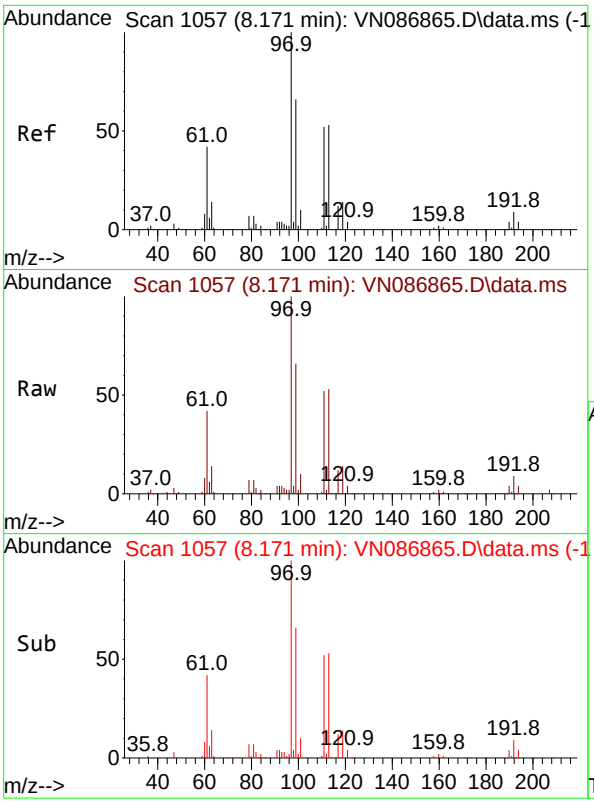


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:114 Resp: 378587

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.6
88	15.1	0.0	30.2



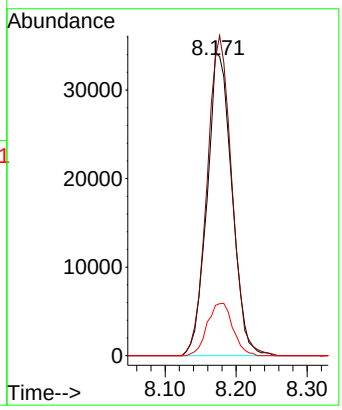


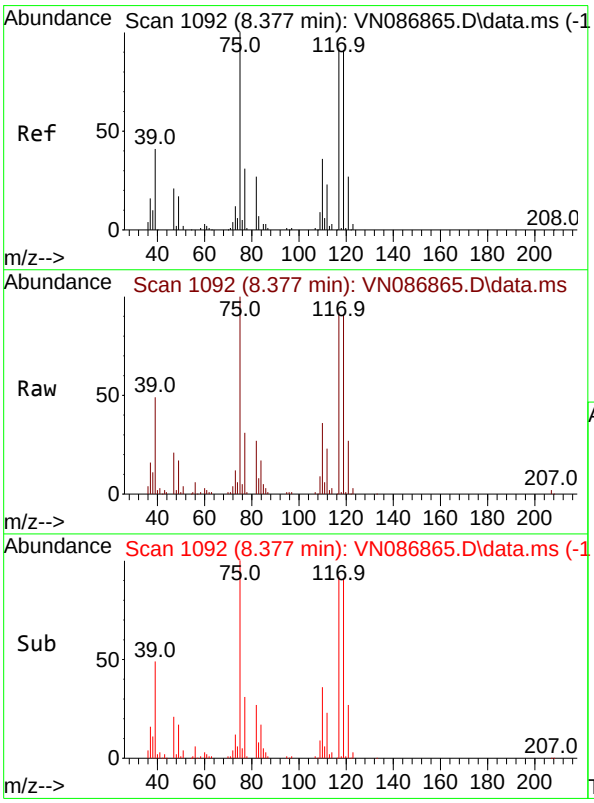
#35
Dibromofluoromethane
Concen: 37.020 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:113 Resp: 83058

Ion	Ratio	Lower	Upper
113	100		
111	105.2	84.2	126.2
192	17.8	14.2	21.4

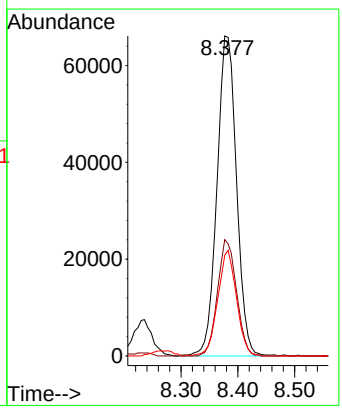


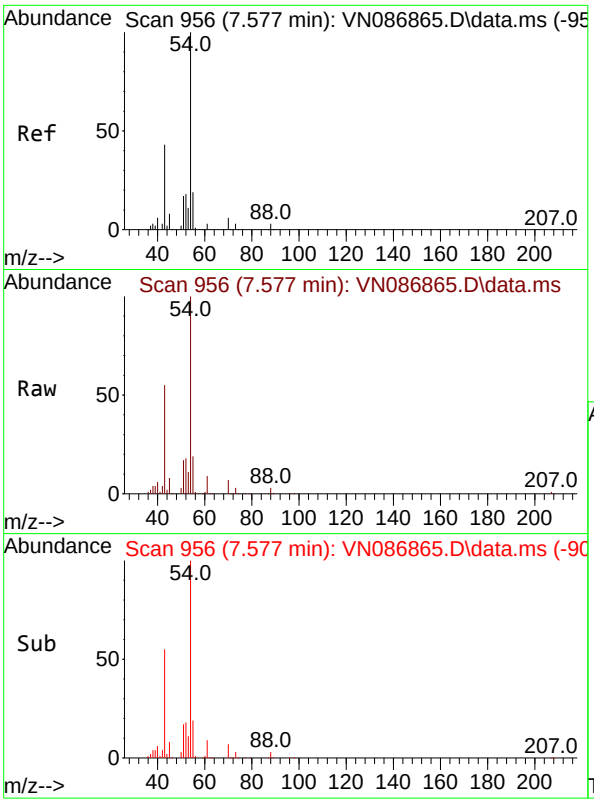


#36
1,1-Dichloropropene
Concen: 47.362 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 75 Resp: 158341

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.6	52.9
77	31.6	25.3	37.9



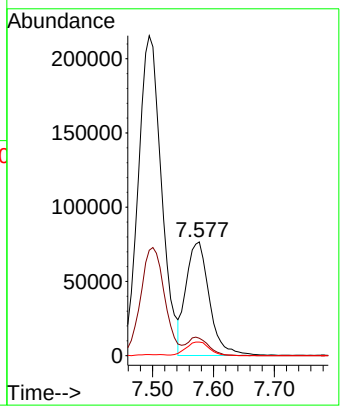


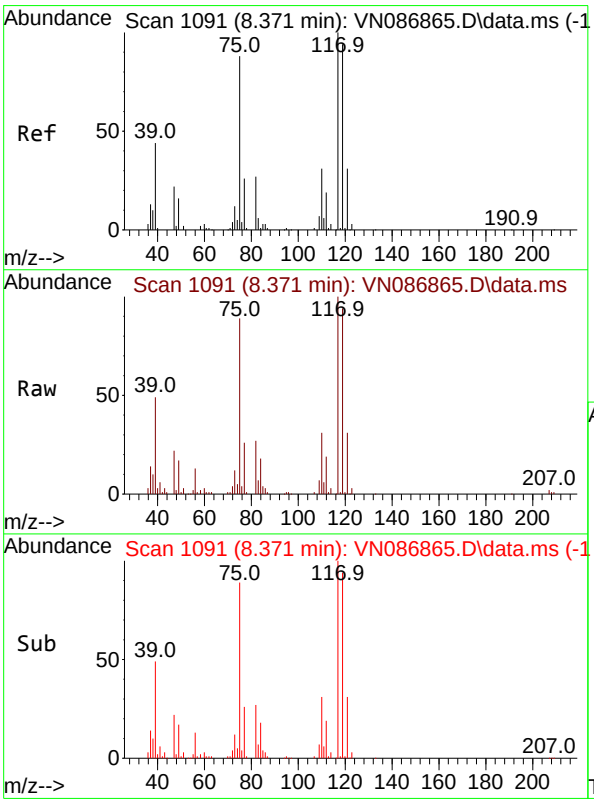
#37
Ethyl Acetate
Concen: 47.720 ug/l
RT: 7.577 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 203091

Ion	Ratio	Lower	Upper
43	100		
61	15.1	12.1	18.1
70	12.2	9.8	14.6

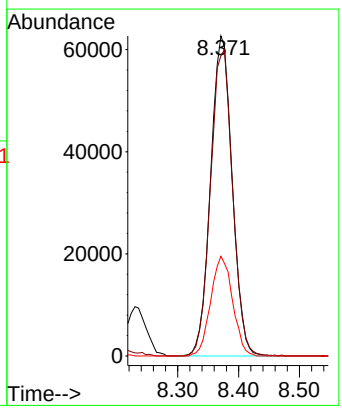


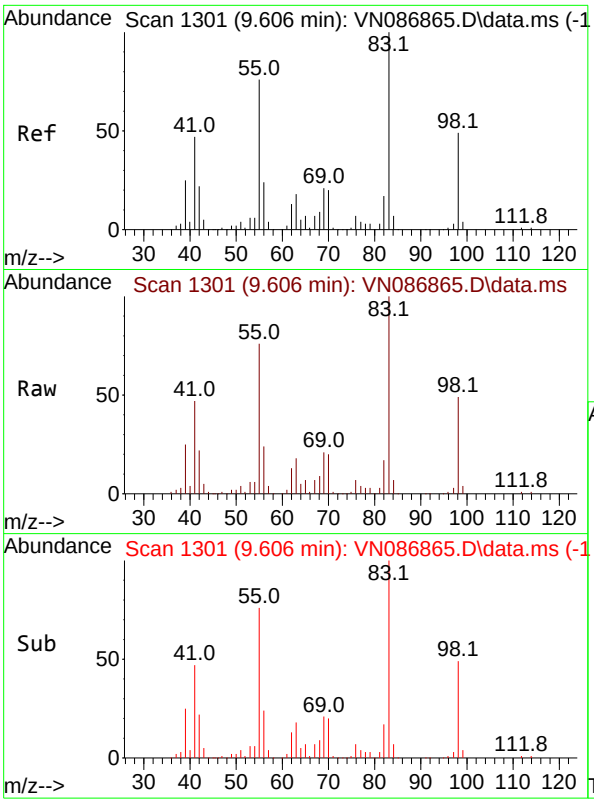


#38
Carbon Tetrachloride
Concen: 47.126 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:117 Resp: 154677

Ion	Ratio	Lower	Upper
117	100		
119	93.8	75.0	112.6
121	31.1	24.9	37.3



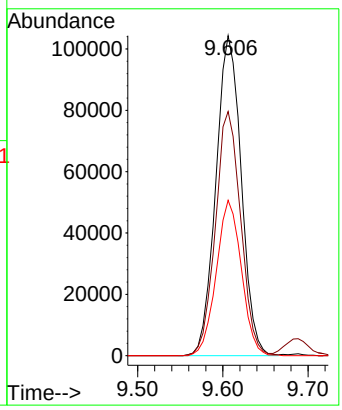


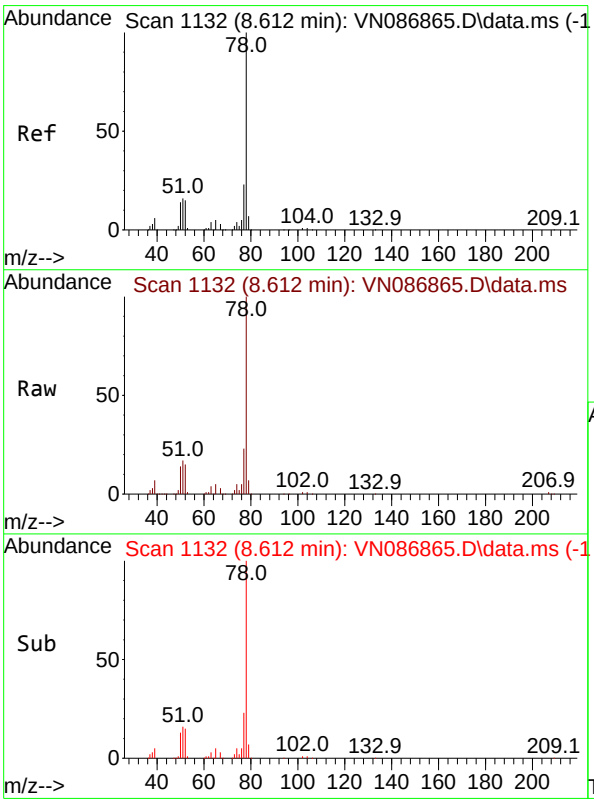
#39
Methylcyclohexane
Concen: 47.126 ug/l
RT: 9.606 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 215849

Ion	Ratio	Lower	Upper
83	100		
55	76.3	61.0	91.6
98	48.6	38.9	58.3

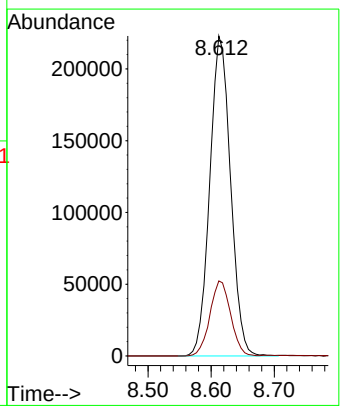


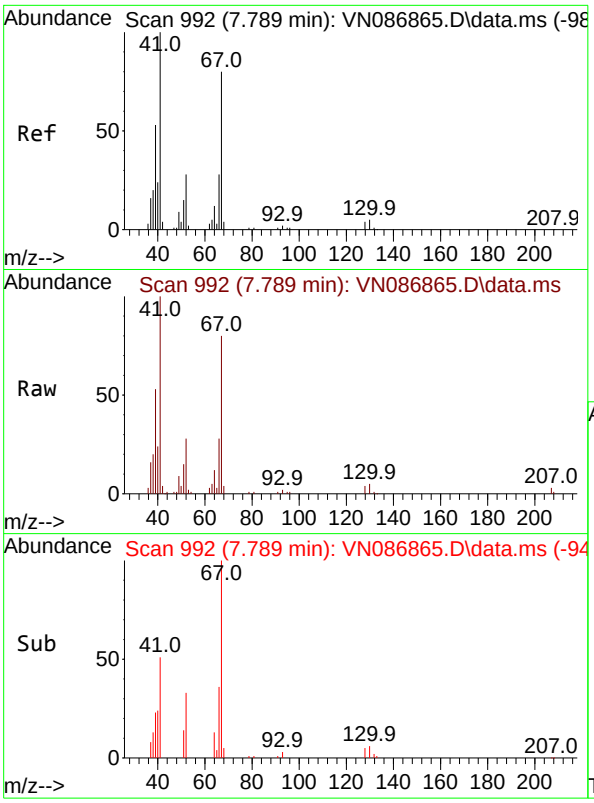


#40
Benzene
Concen: 46.590 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 78 Resp: 509334

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.7	28.1



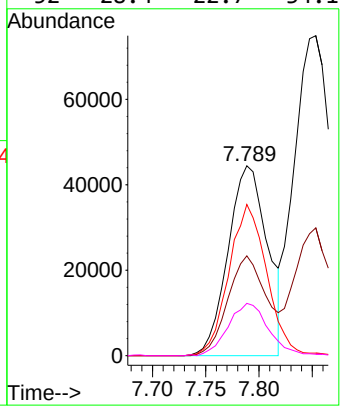


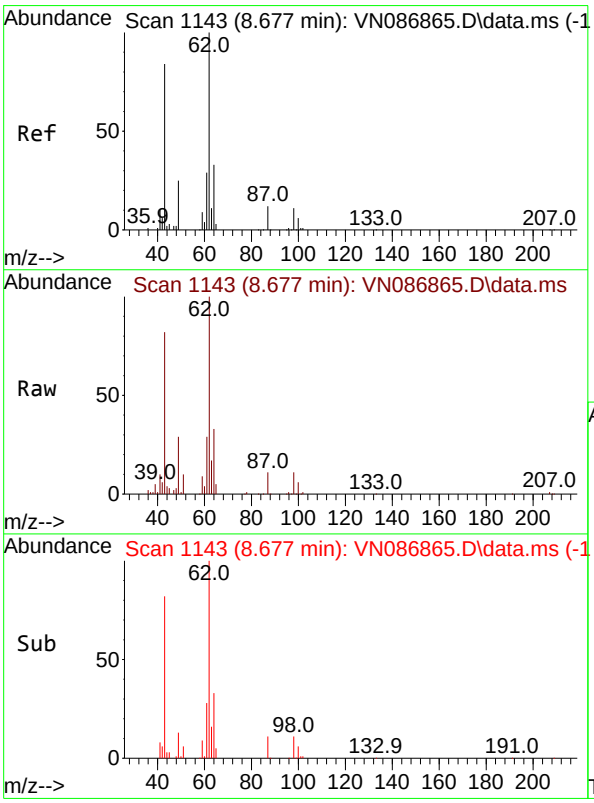
#41
Methacrylonitrile
Concen: 48.000 ug/l
RT: 7.789 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 114727

Ion	Ratio	Lower	Upper
41	100		
39	51.5	41.2	61.8
67	76.8	61.4	92.2
52	28.4	22.7	34.1

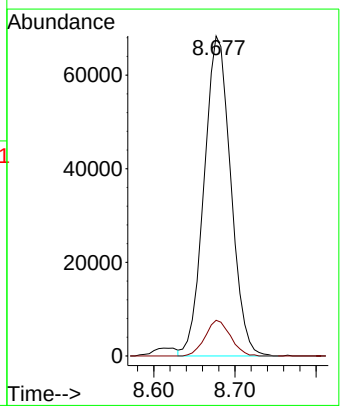


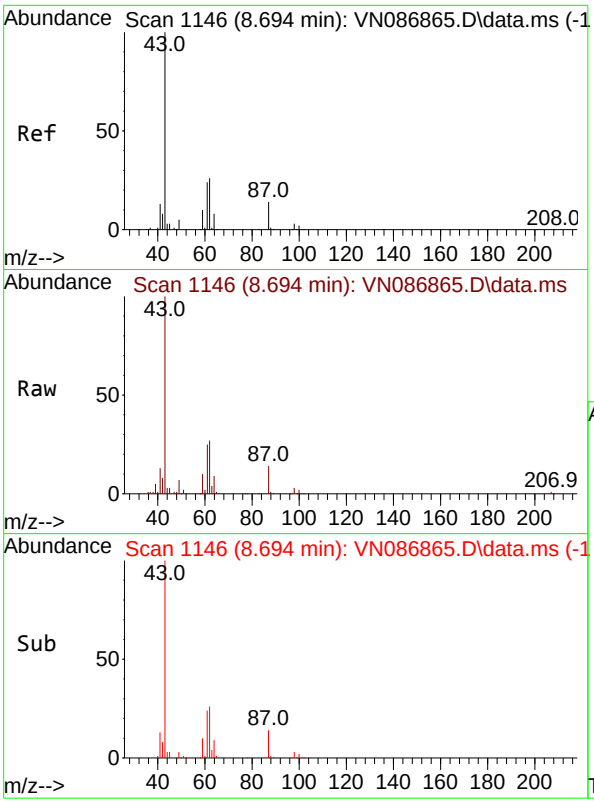


#42
1,2-Dichloroethane
Concen: 46.960 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 62 Resp: 155713

Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	21.2



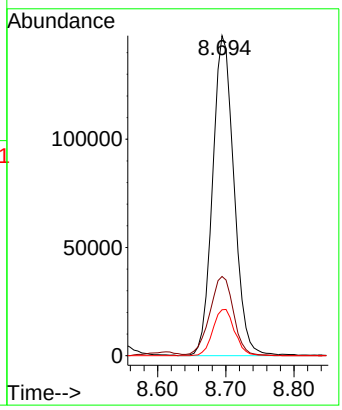


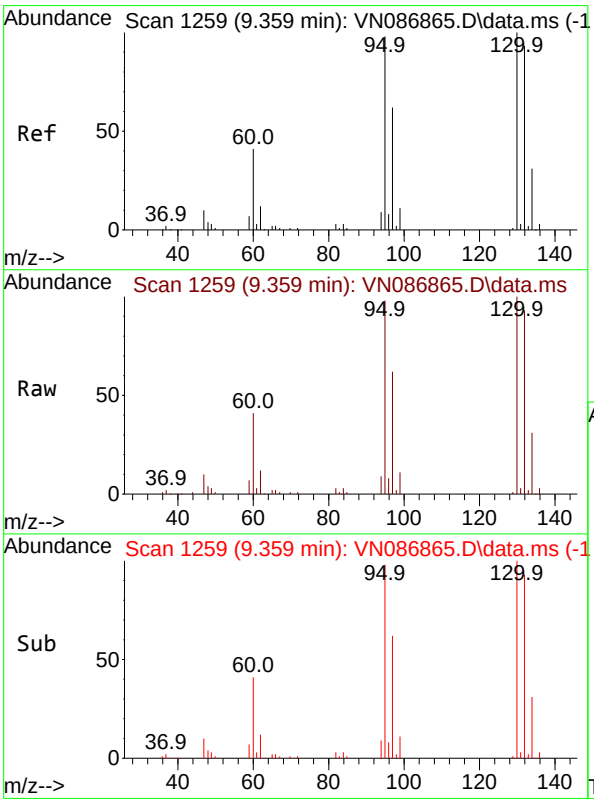
#43
Isopropyl Acetate
Concen: 47.248 ug/l
RT: 8.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 322741

Ion	Ratio	Lower	Upper
43	100		
61	27.6	22.1	33.1
87	14.7	11.8	17.6

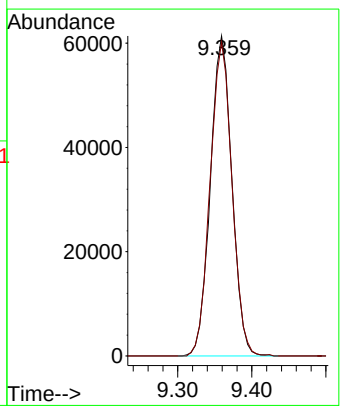


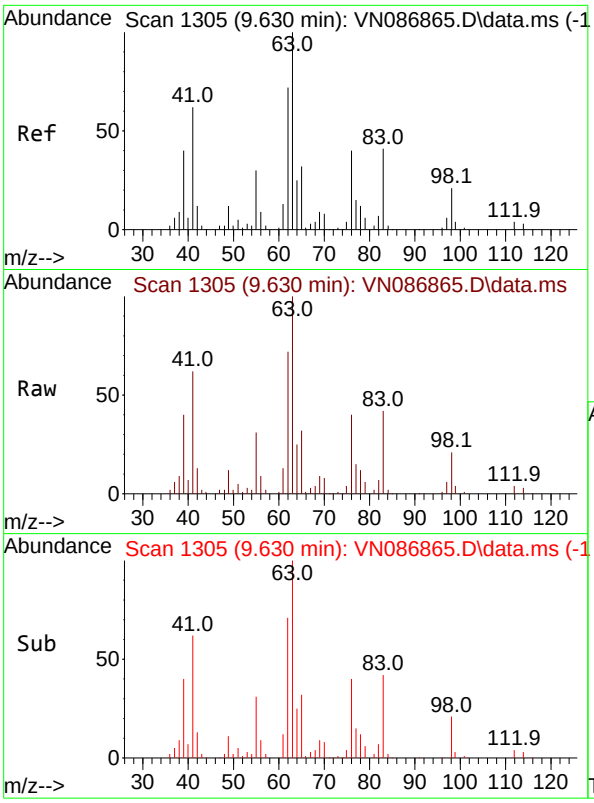


#44
Trichloroethene
Concen: 47.776 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:130 Resp: 123847

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	196.2



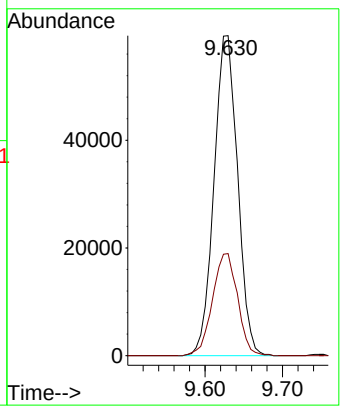


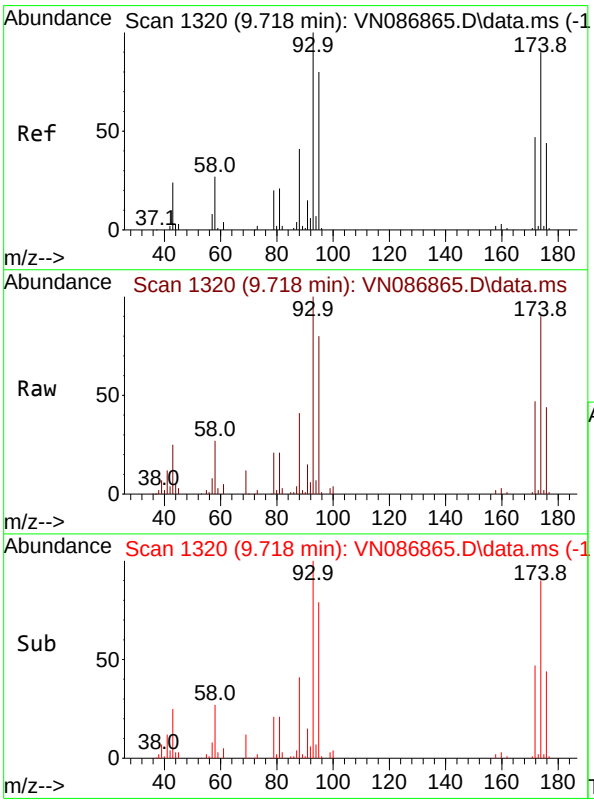
#45
1,2-Dichloropropane
Concen: 47.251 ug/l
RT: 9.630 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 63 Resp: 125673

Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.5	38.3

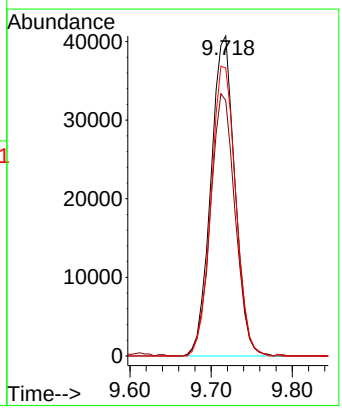


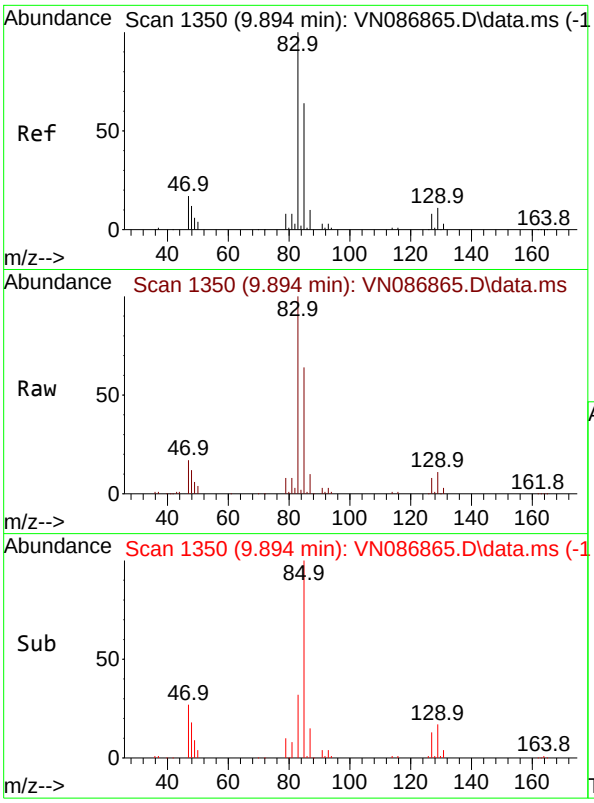


#46
Dibromomethane
Concen: 47.442 ug/l
RT: 9.718 min Scan# 1320
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 93 Resp: 83811

Ion	Ratio	Lower	Upper
93	100		
95	83.9	67.1	100.7
174	92.8	74.2	111.4



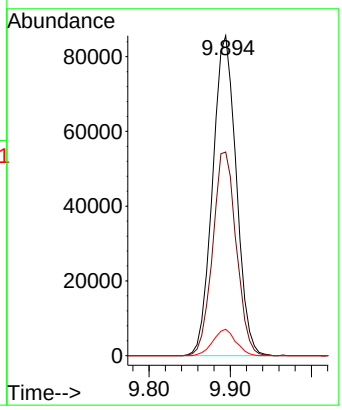


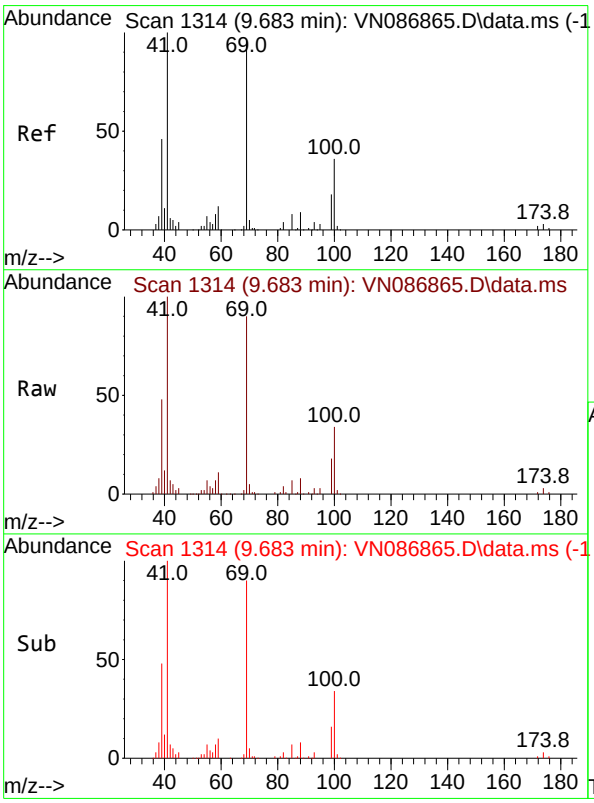
#47
Bromodichloromethane
Concen: 47.651 ug/l
RT: 9.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 173200

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3
127	8.3	6.6	10.0

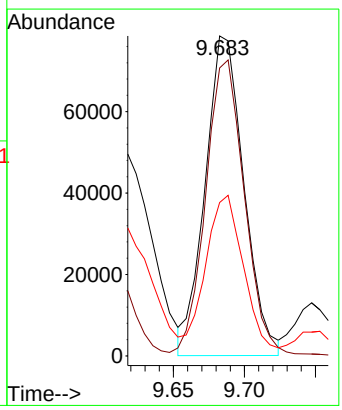


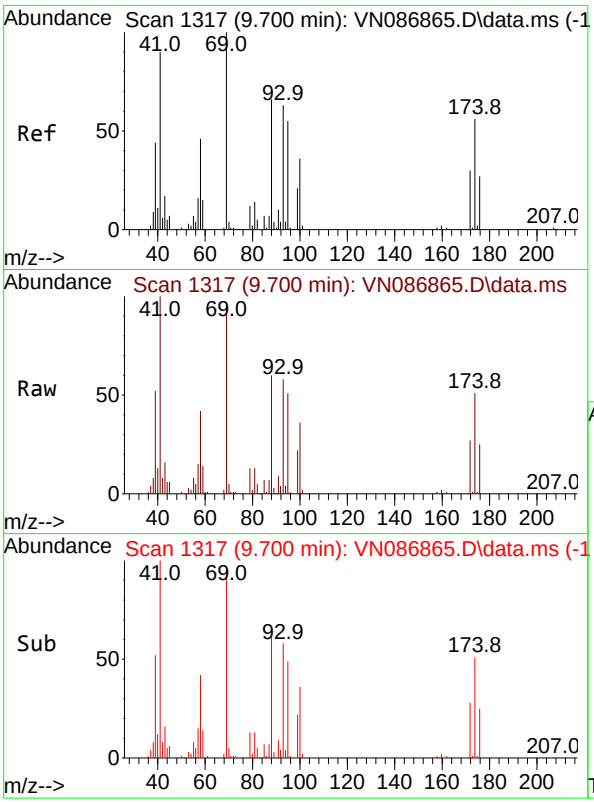


#48
Methyl methacrylate
Concen: 47.399 ug/l
RT: 9.683 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 41 Resp: 149019

Ion	Ratio	Lower	Upper
41	100		
69	93.3	74.6	112.0
39	50.3	40.2	60.4



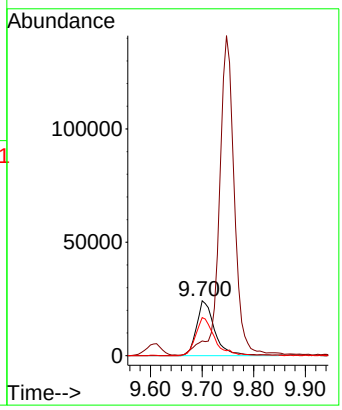


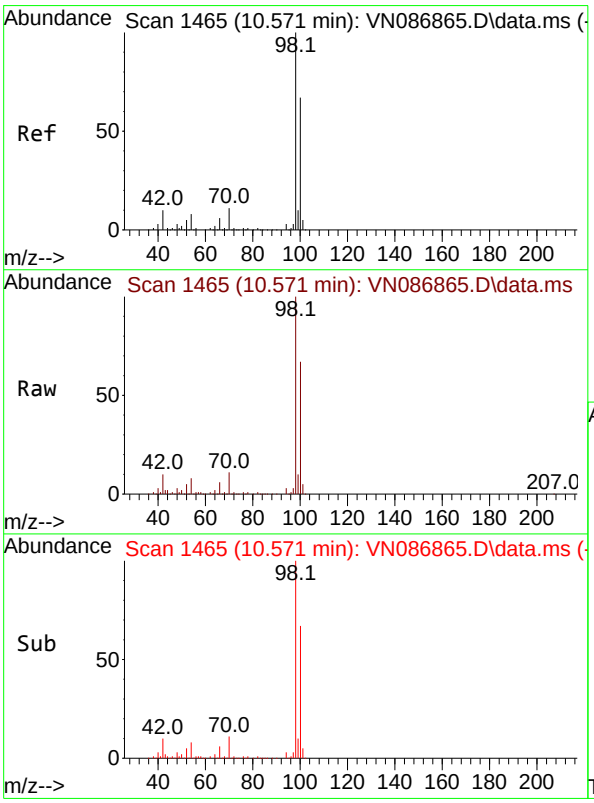
#49
1,4-Dioxane
Concen: 1032.607 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 88 Resp: 59060

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	72.1	57.7	86.5

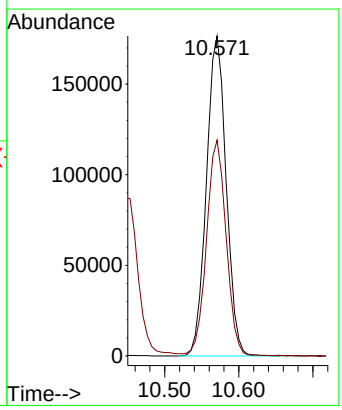


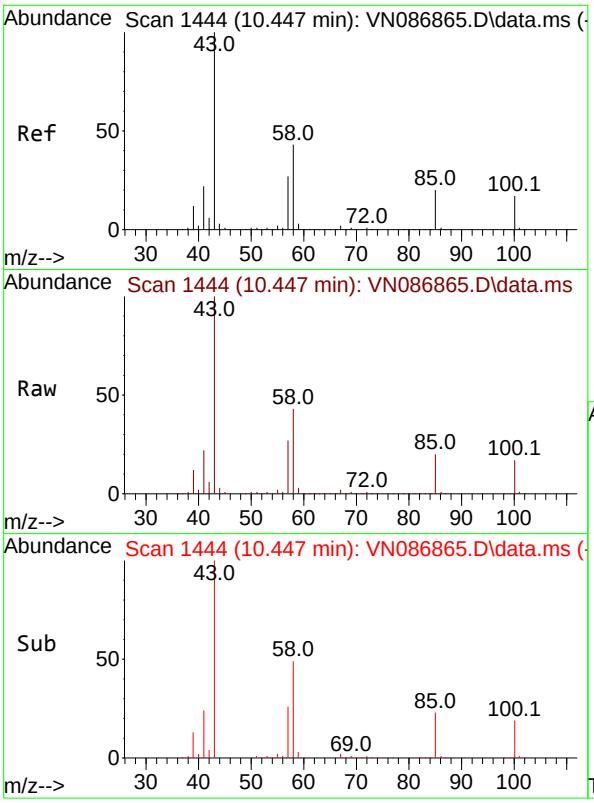


#50
Toluene-d8
Concen: 36.716 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 98 Resp: 326105

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.4	80.0



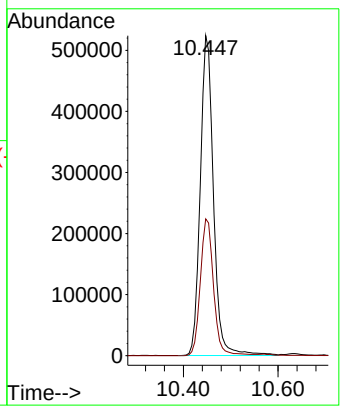


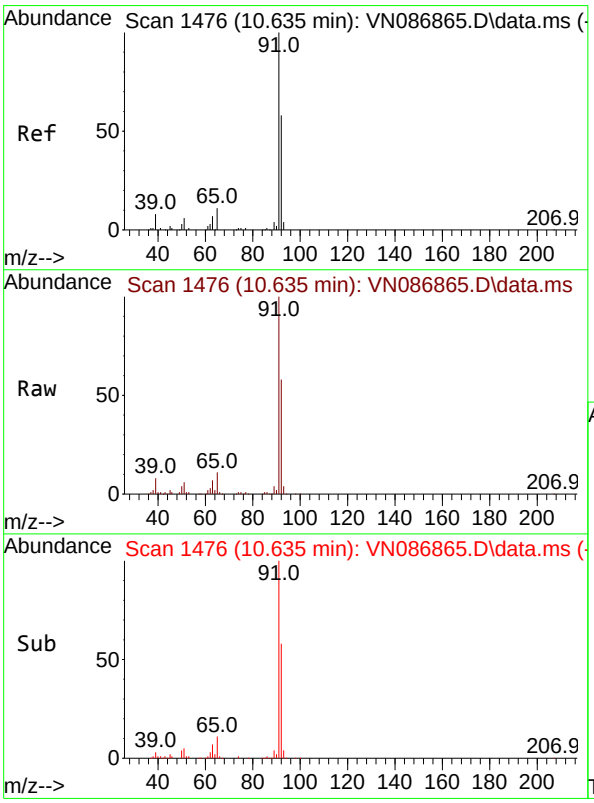
#51
4-Methyl-2-Pentanone
Concen: 247.484 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1017688

Ion	Ratio	Lower	Upper
43	100		
58	42.8	34.2	51.4

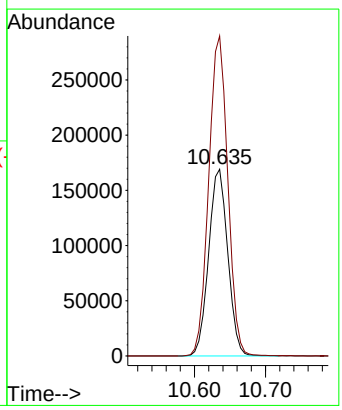


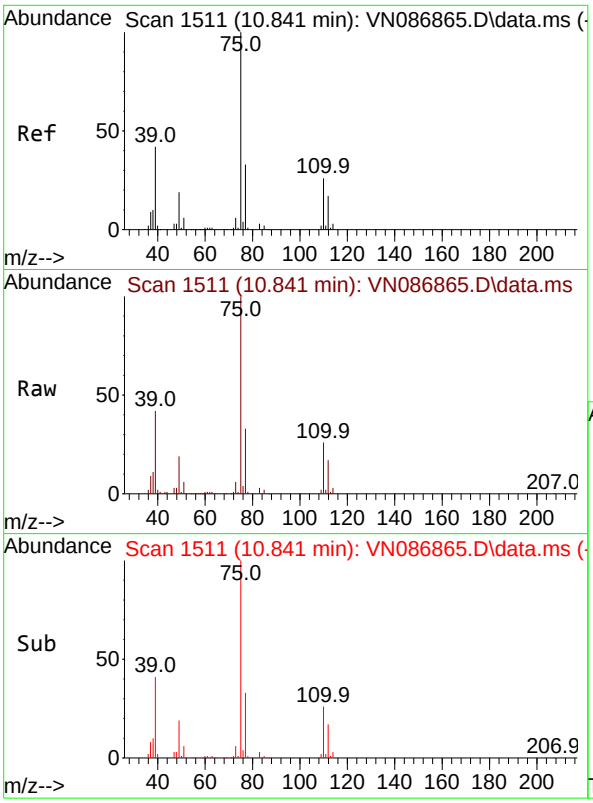


#52
Toluene
Concen: 47.331 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 92 Resp: 316219

Ion	Ratio	Lower	Upper
92	100		
91	170.6	136.5	204.7



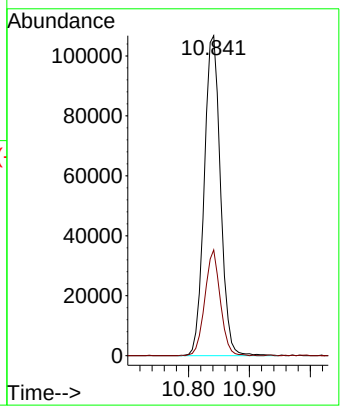


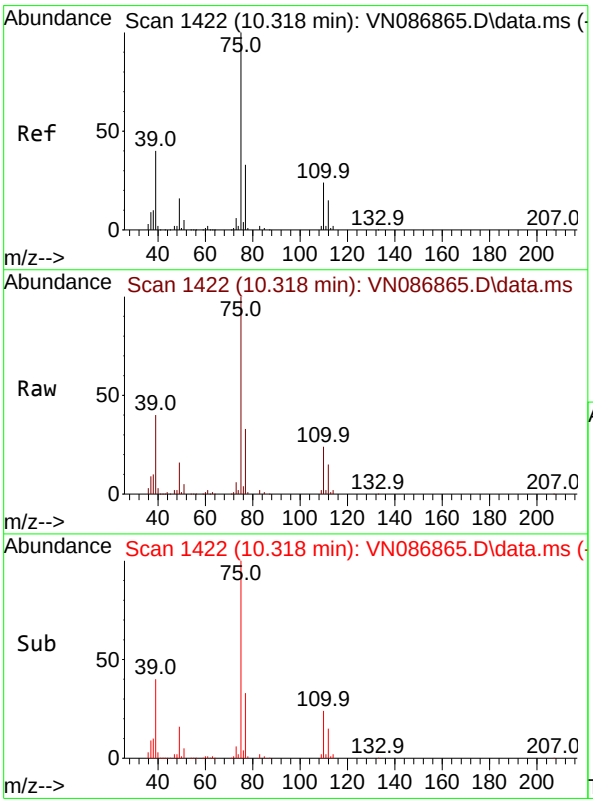
#53
t-1,3-Dichloropropene
Concen: 48.587 ug/l
RT: 10.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 197475

Ion	Ratio	Lower	Upper
75	100		
77	33.0	26.4	39.6

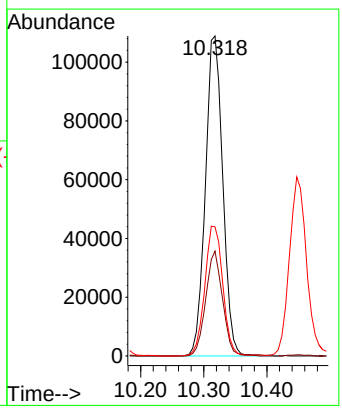


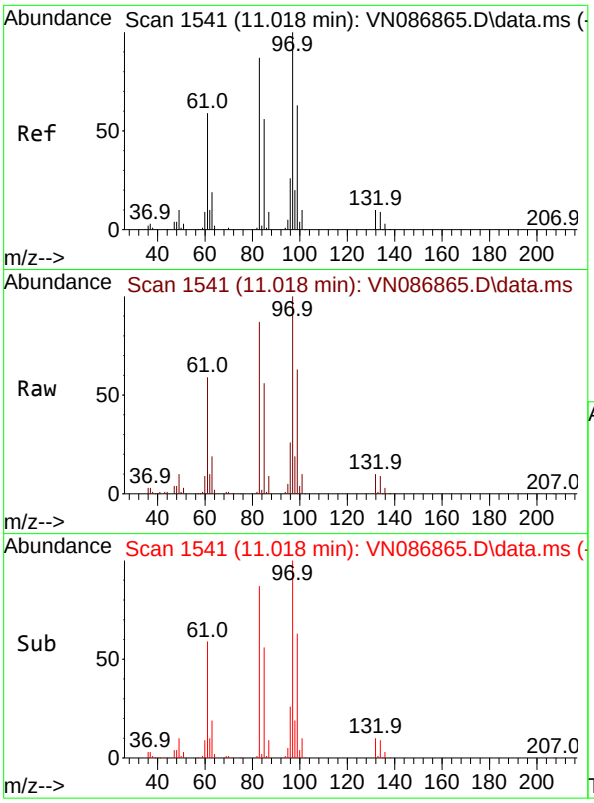


#54
cis-1,3-Dichloropropene
Concen: 47.950 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 75 Resp: 208523

Ion	Ratio	Lower	Upper
75	100		
77	32.8	26.2	39.4
39	40.4	32.3	48.5



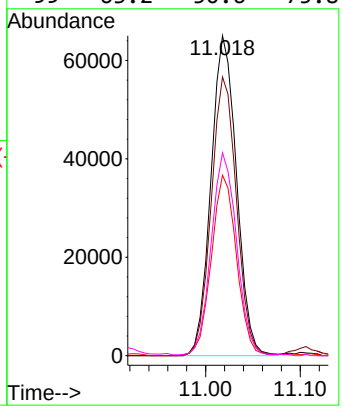


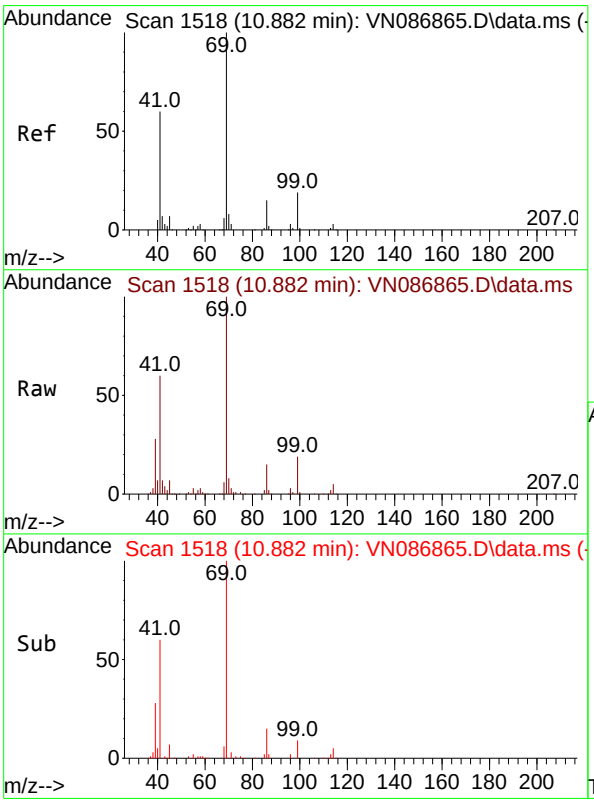
#55
1,1,2-Trichloroethane
Concen: 47.445 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 97 Resp: 121969

Ion	Ratio	Lower	Upper
97	100		
83	87.1	69.7	104.5
85	56.4	45.1	67.7
99	63.2	50.6	75.8

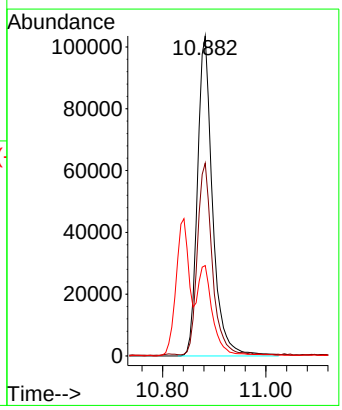


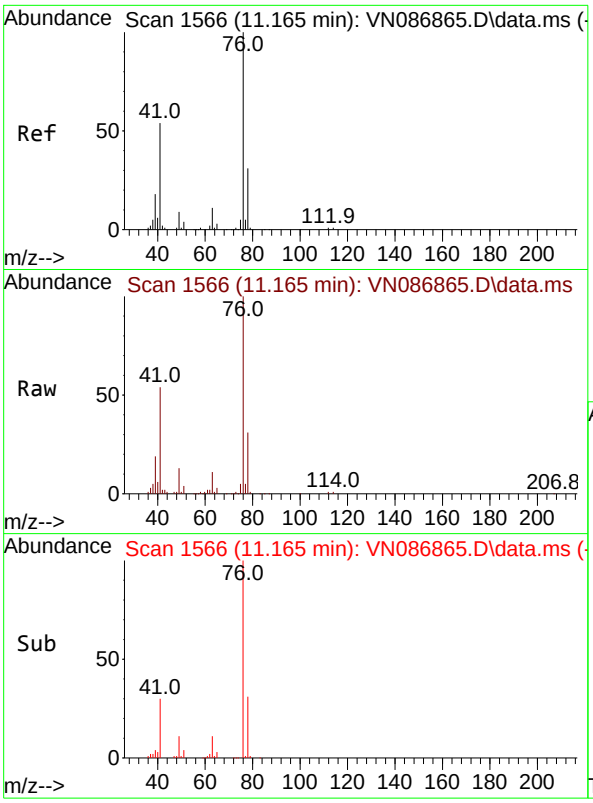


#56
Ethyl methacrylate
Concen: 51.401 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 69 Resp: 210467

Ion	Ratio	Lower	Upper
69	100		
41	59.0	47.2	70.8
39	28.8	23.0	34.6



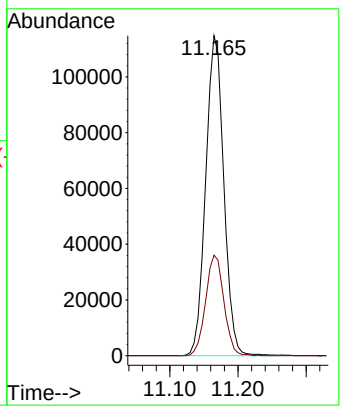


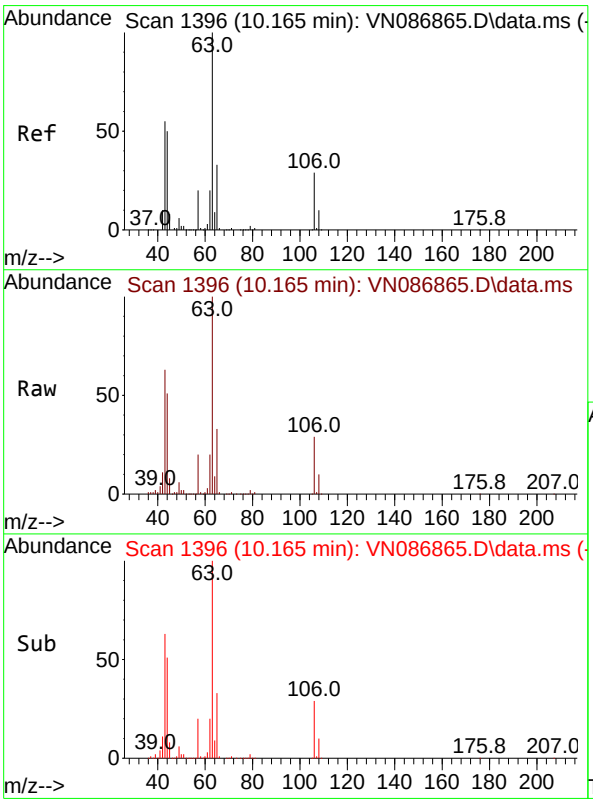
#57
1,3-Dichloropropane
Concen: 47.593 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 212243

Ion	Ratio	Lower	Upper
76	100		
78	31.6	25.3	37.9

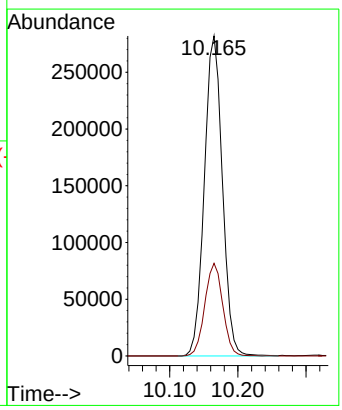


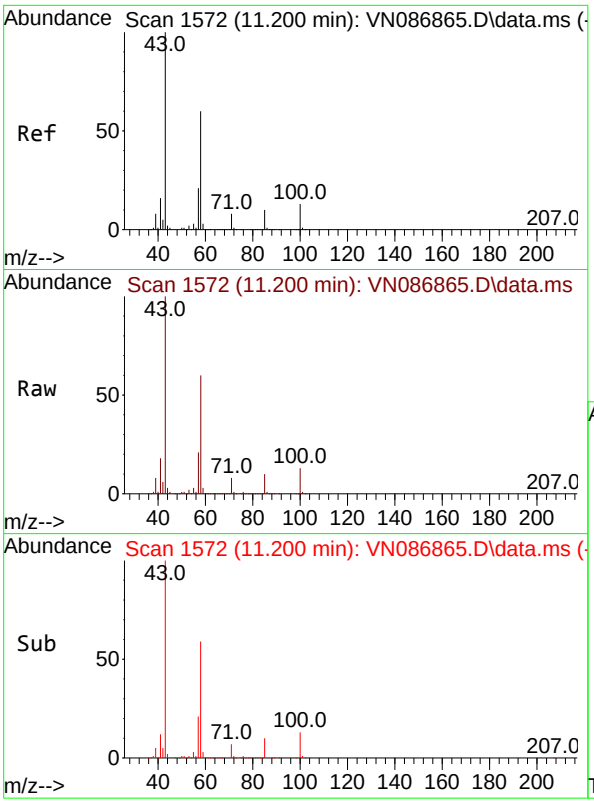


#58
2-Chloroethyl Vinyl ether
Concen: 212.570 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 63 Resp: 519139

Ion	Ratio	Lower	Upper
63	100		
106	28.8	23.0	34.6



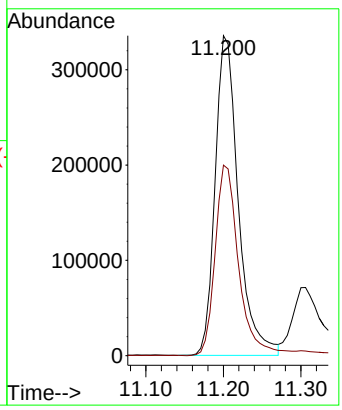


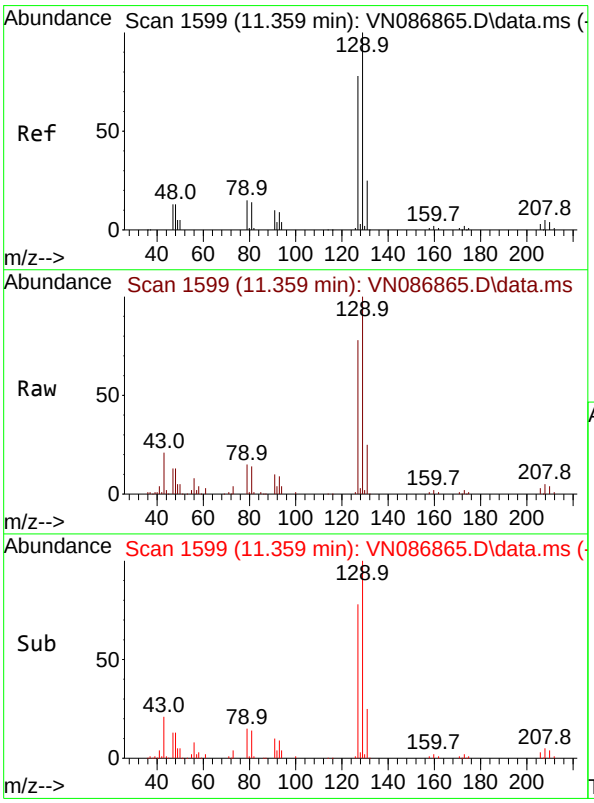
#59
2-Hexanone
Concen: 262.977 ug/l
RT: 11.200 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 696567

Ion	Ratio	Lower	Upper
43	100		
58	60.9	30.4	91.3

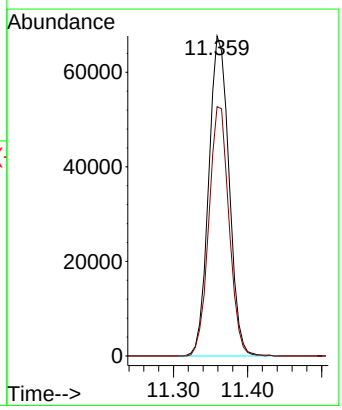


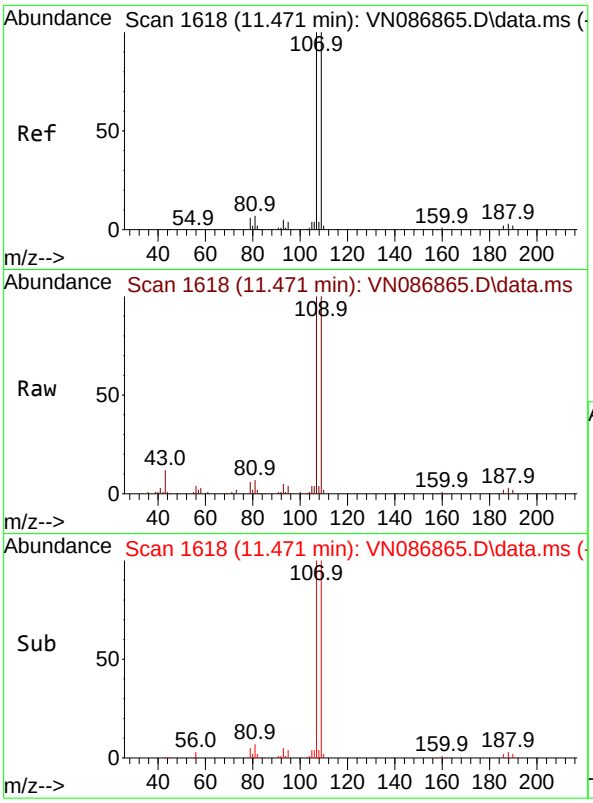


#60
Dibromochloromethane
Concen: 48.056 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:129 Resp: 128715

Ion	Ratio	Lower	Upper
129	100		
127	77.2	38.6	115.8



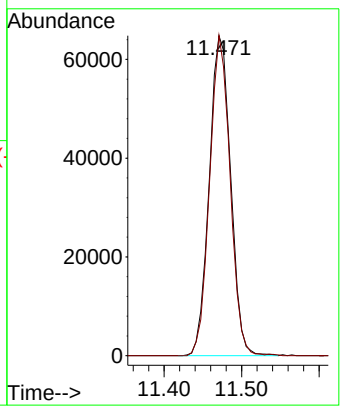


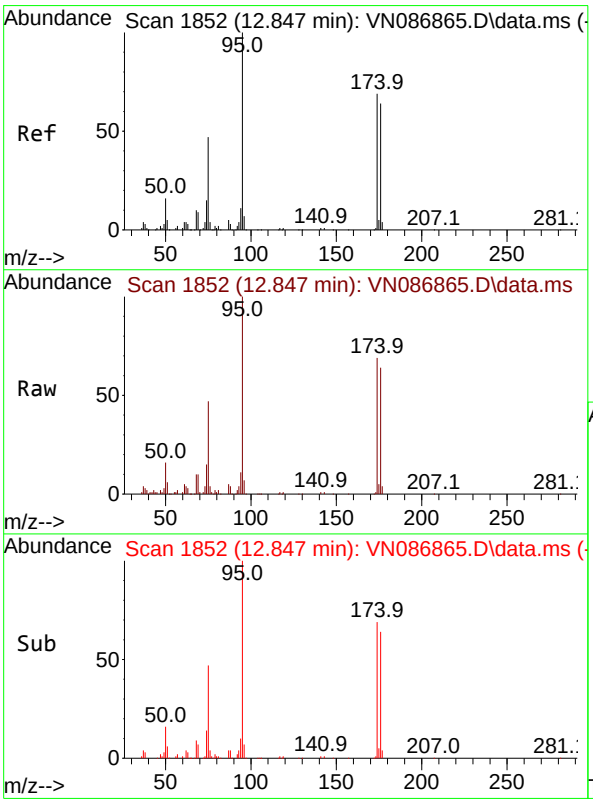
#61
1,2-Dibromoethane
Concen: 47.258 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 124522

Ion	Ratio	Lower	Upper
107	100		
109	95.4	76.3	114.5

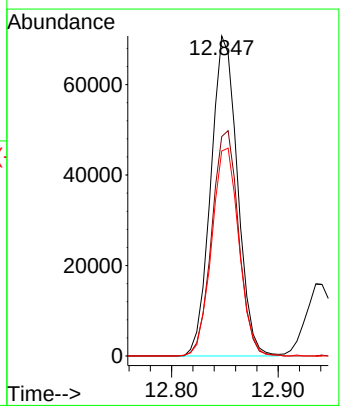


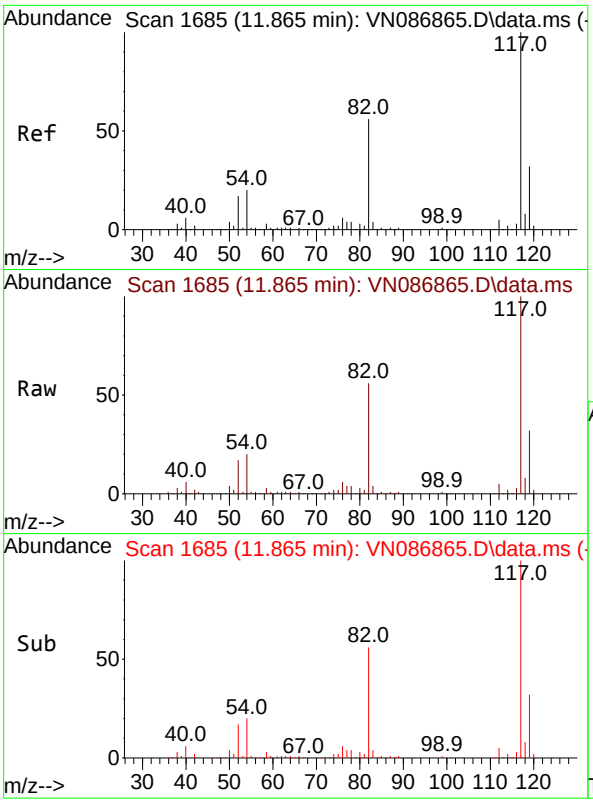


#62
4-Bromofluorobenzene
Concen: 37.264 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 95 Resp: 122965

Ion	Ratio	Lower	Upper
95	100		
174	70.9	0.0	141.8
176	66.3	0.0	132.6



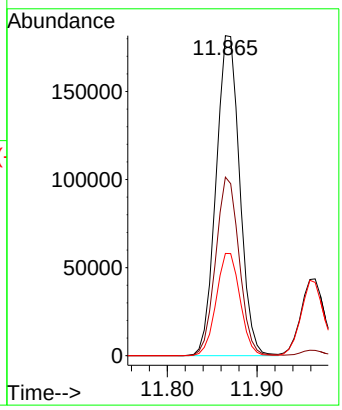


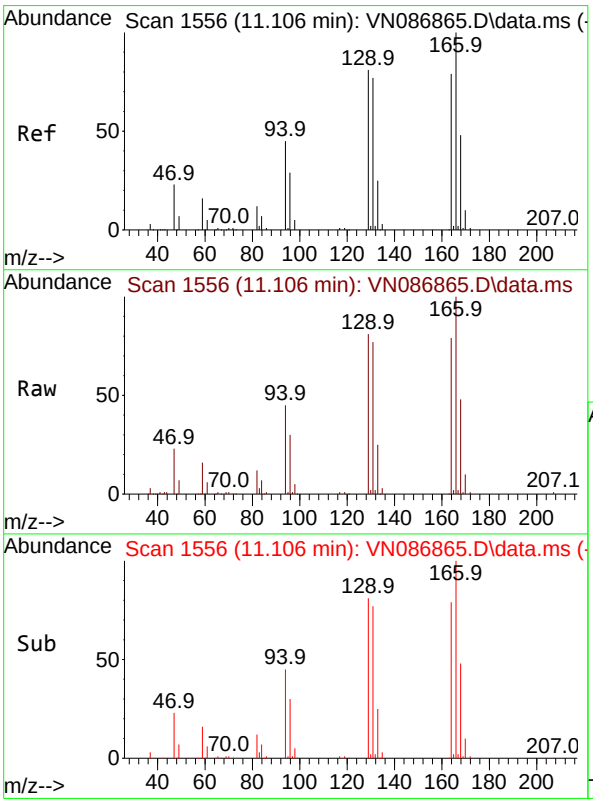
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 332766

Ion	Ratio	Lower	Upper
117	100		
82	55.8	44.6	67.0
119	31.9	25.5	38.3

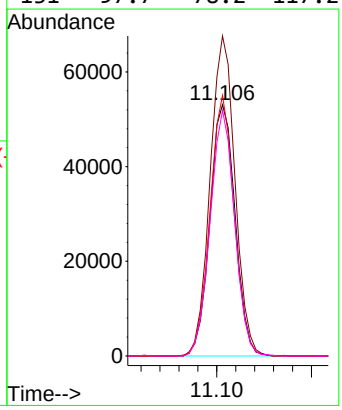


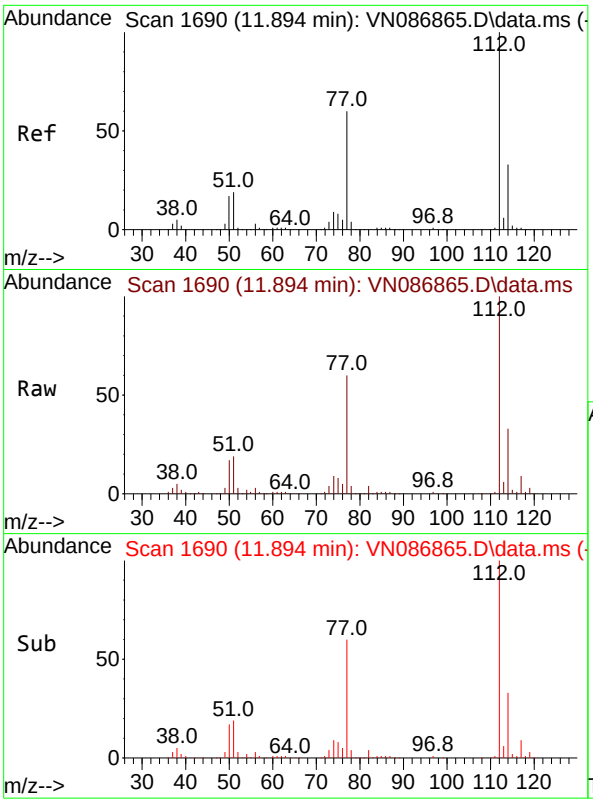


#64
Tetrachloroethene
Concen: 46.382 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:164 Resp: 97679

Ion	Ratio	Lower	Upper
164	100		
166	127.3	101.8	152.8
129	103.7	83.0	124.4
131	97.7	78.2	117.2



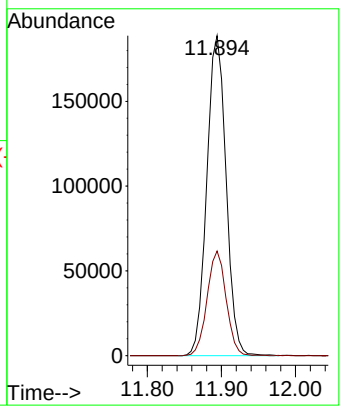


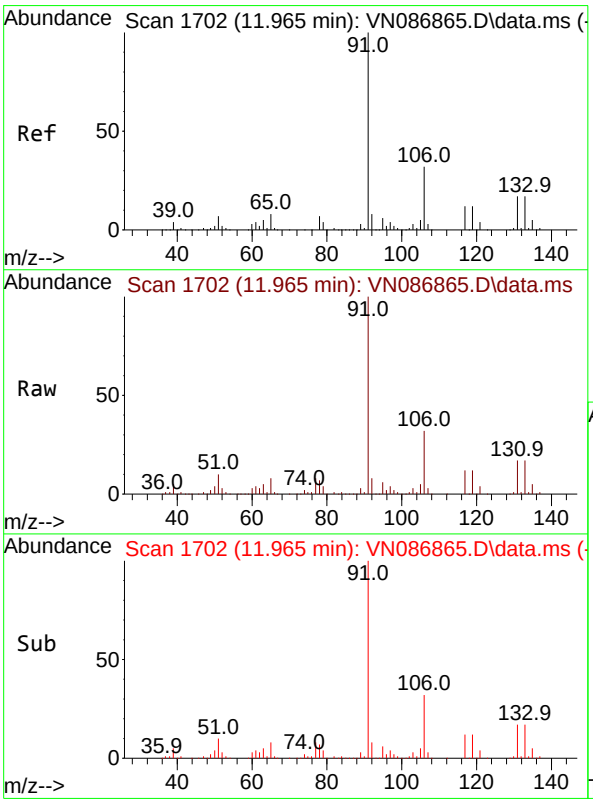
#65
Chlorobenzene
Concen: 46.386 ug/l
RT: 11.894 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 340439

Ion	Ratio	Lower	Upper
112	100		
114	32.7	26.2	39.2

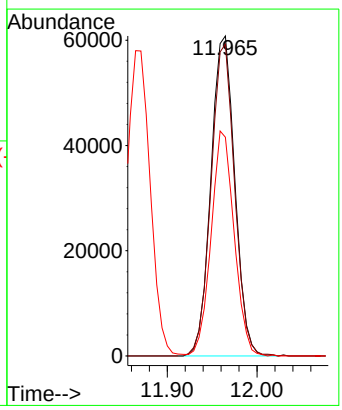


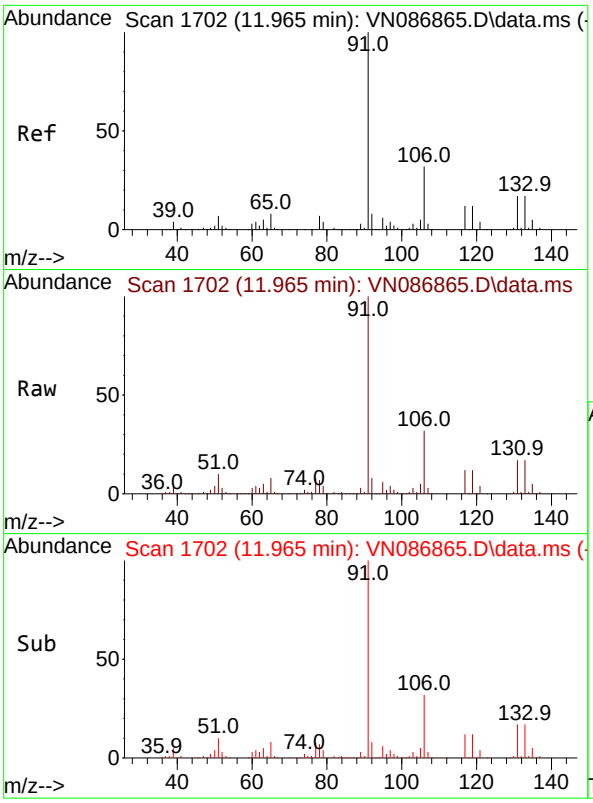


#66
1,1,1,2-Tetrachloroethane
Concen: 47.615 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:131 Resp: 112333

Ion	Ratio	Lower	Upper
131	100		
133	96.5	48.3	144.8
119	67.9	34.0	101.8



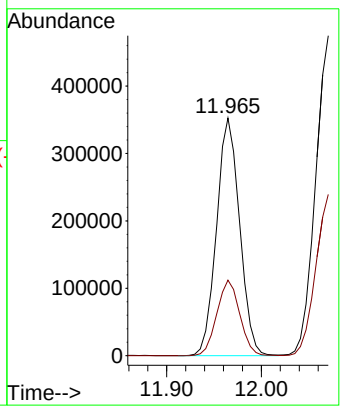


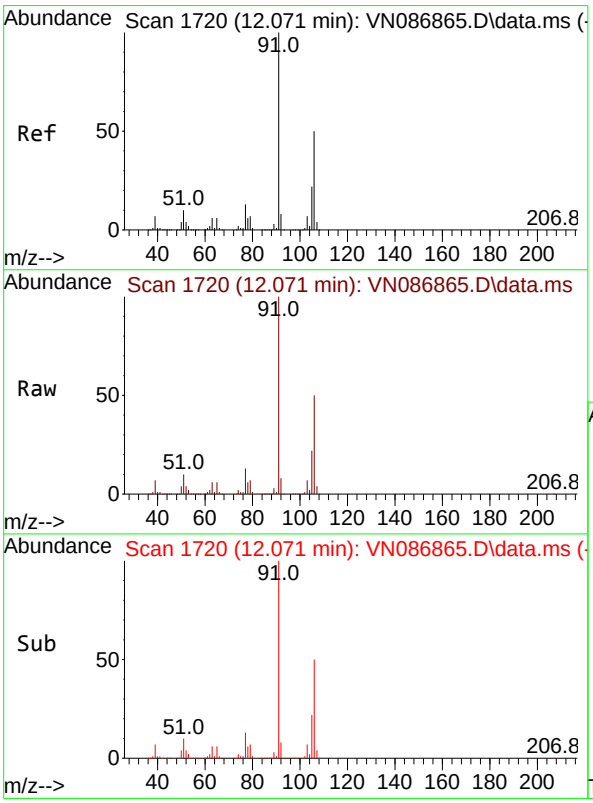
#67
Ethyl Benzene
Concen: 47.271 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 597593

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.4	38.2

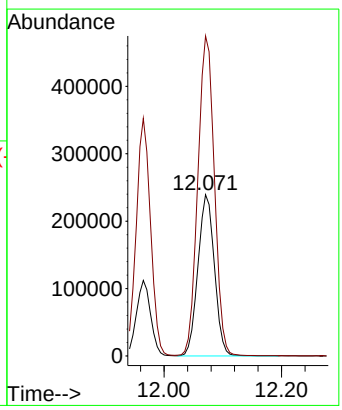


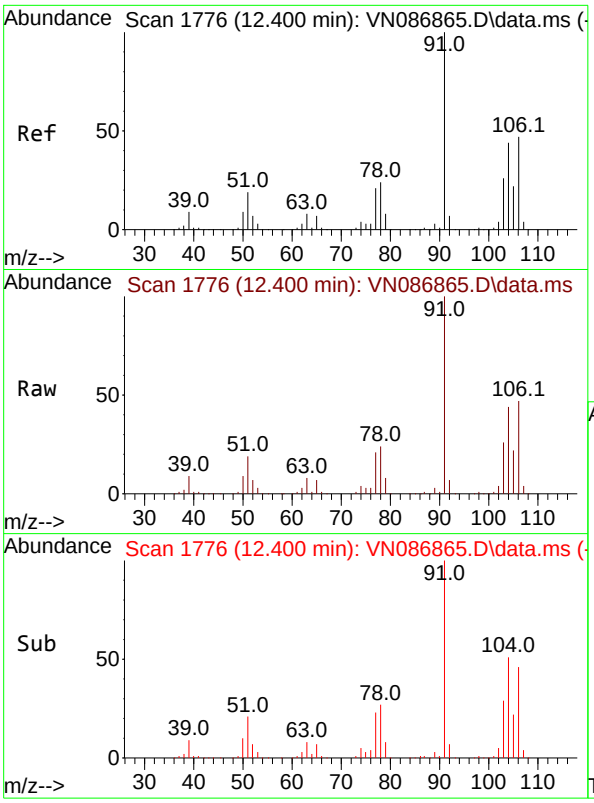


#68
m/p-Xylenes
Concen: 96.424 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:106 Resp: 466620

Ion	Ratio	Lower	Upper
106	100		
91	199.2	159.4	239.0



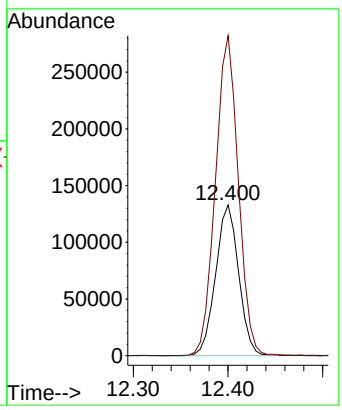


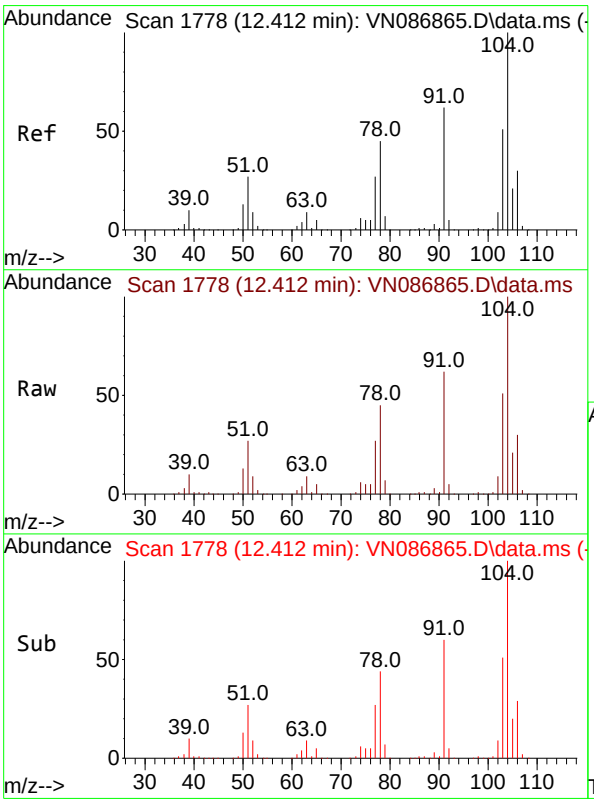
#69
o-Xylene
Concen: 48.395 ug/l
RT: 12.400 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 224299

Ion	Ratio	Lower	Upper
106	100		
91	212.1	106.1	318.1

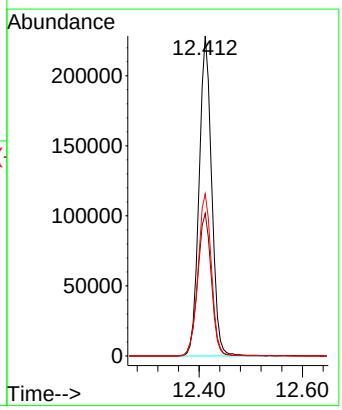


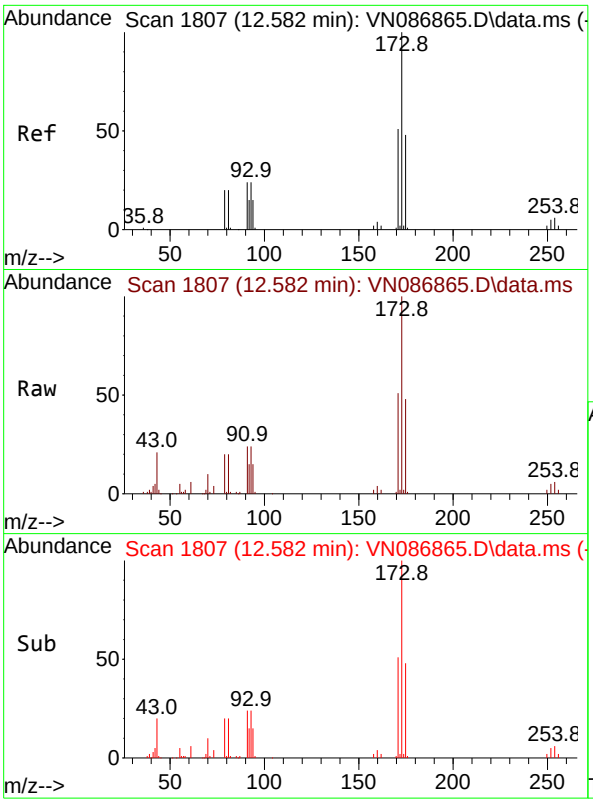


#70
Styrene
Concen: 48.745 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:104 Resp: 386596

Ion	Ratio	Lower	Upper
104	100		
78	48.1	38.5	57.7
103	53.9	43.1	64.7



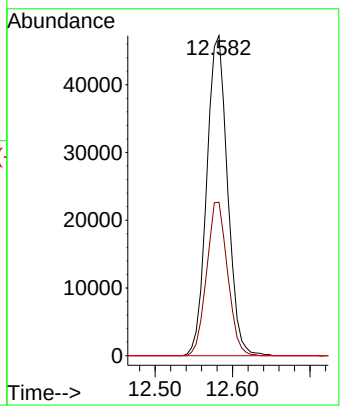


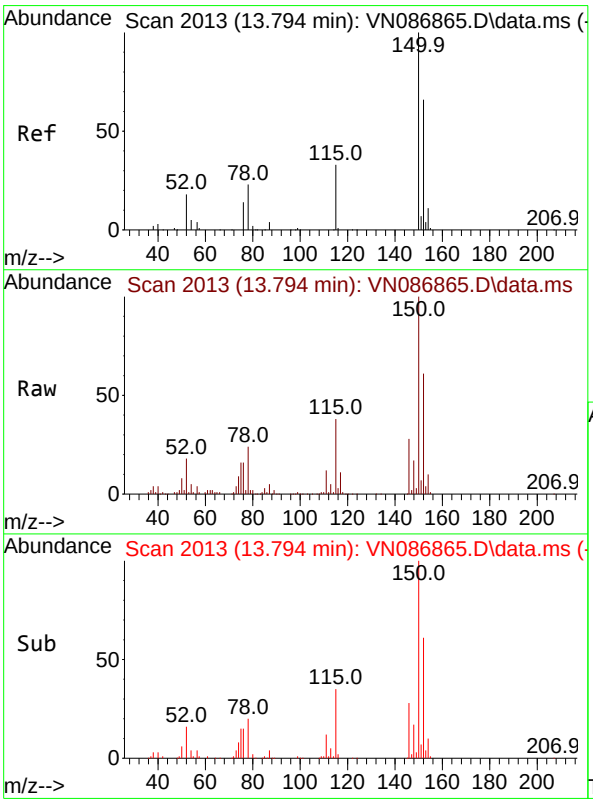
#71
Bromoform
Concen: 50.415 ug/l
RT: 12.582 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:173 Resp: 88127

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.1	72.4
254	0.0	0.0	0.0

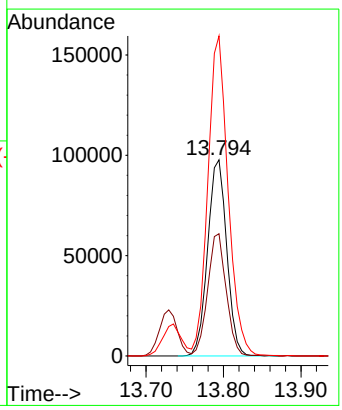


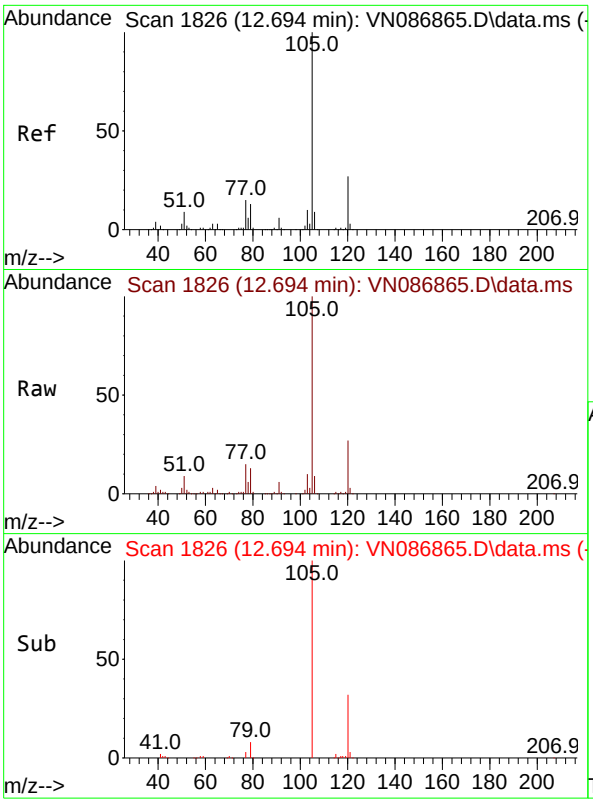


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:152 Resp: 167532

Ion	Ratio	Lower	Upper
152	100		
115	60.3	30.1	90.5
150	172.5	0.0	345.0



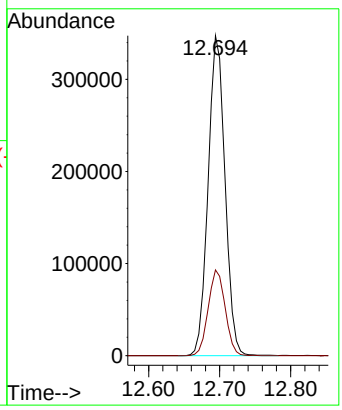


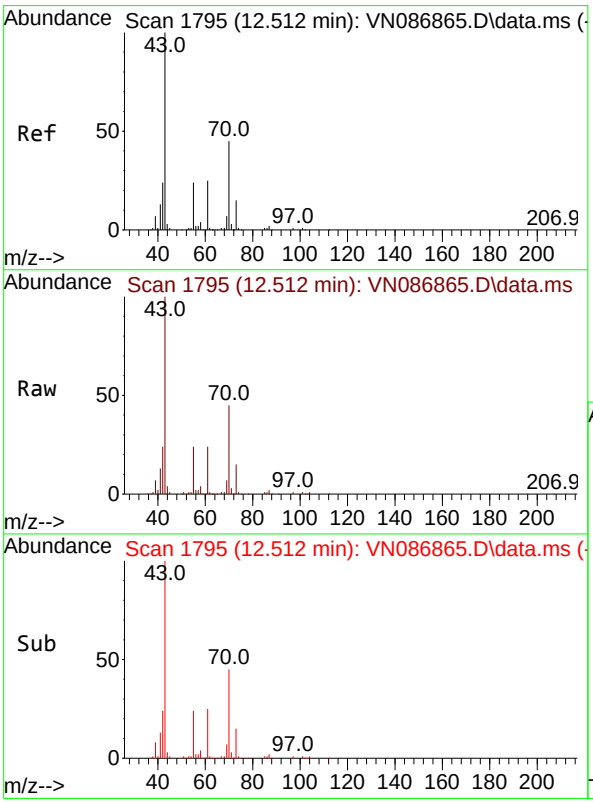
#73
Isopropylbenzene
Concen: 47.023 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 573905

Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.5	40.4

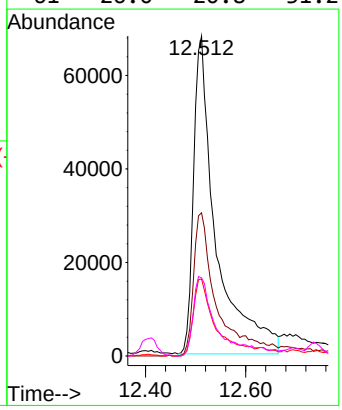


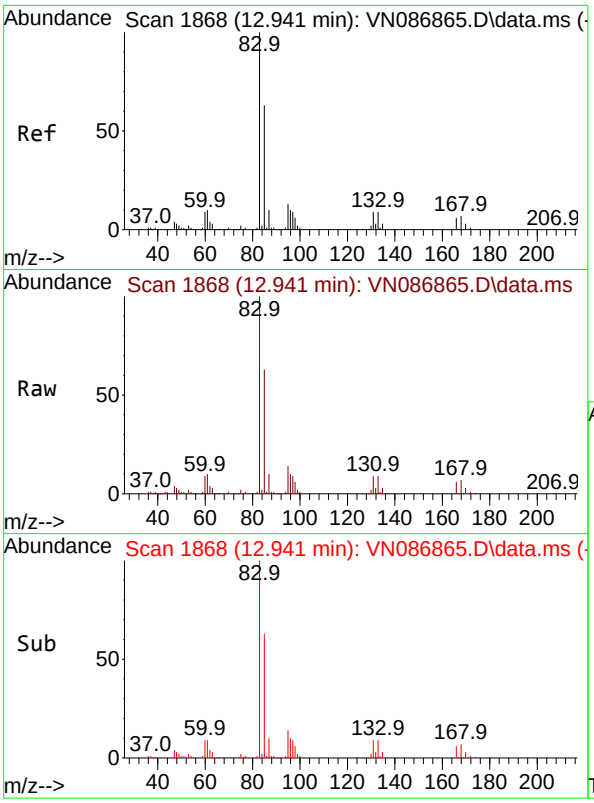


#74
N-amyl acetate
Concen: 52.353 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 43 Resp: 212064

Ion	Ratio	Lower	Upper
43	100		
70	47.0	37.6	56.4
55	23.8	19.0	28.6
61	26.0	20.8	31.2



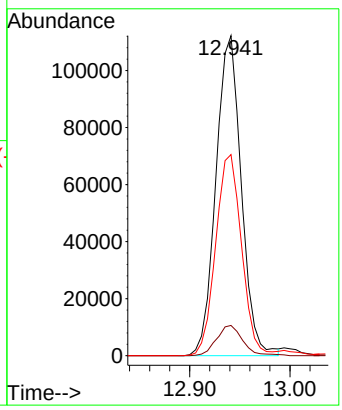


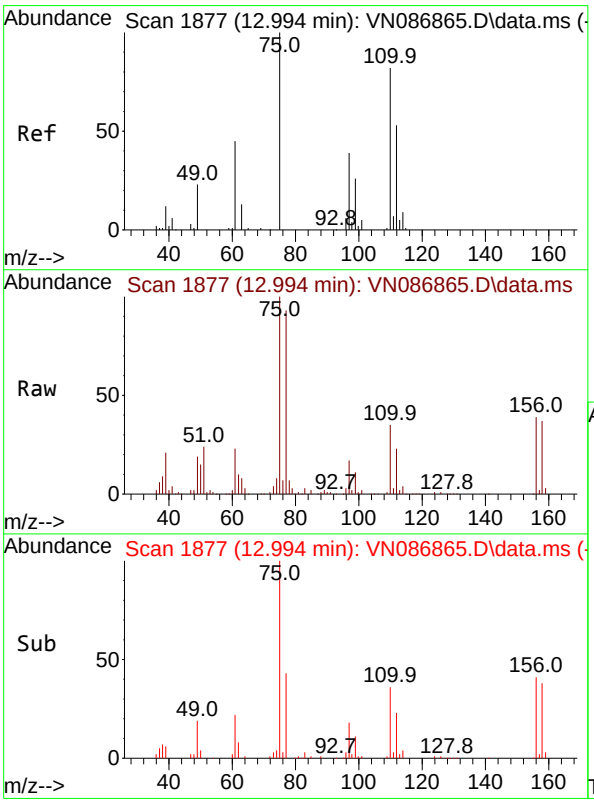
#75
1,1,2,2-Tetrachloroethane
Concen: 47.732 ug/l
RT: 12.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 197360

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	64.0	32.0	96.0

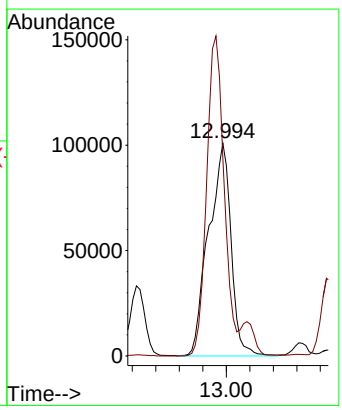


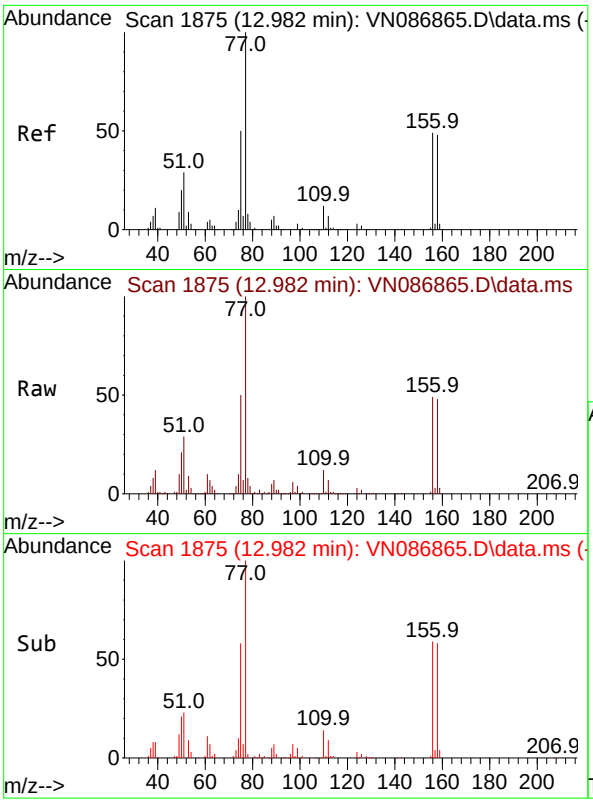


#76
1,2,3-Trichloropropane
Concen: 66.959 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 75 Resp: 267483

Ion	Ratio	Lower	Upper
75	100		
77	116.5	79.3	237.9



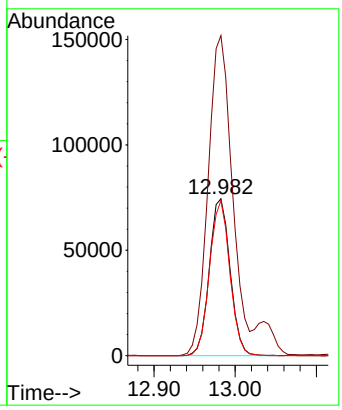


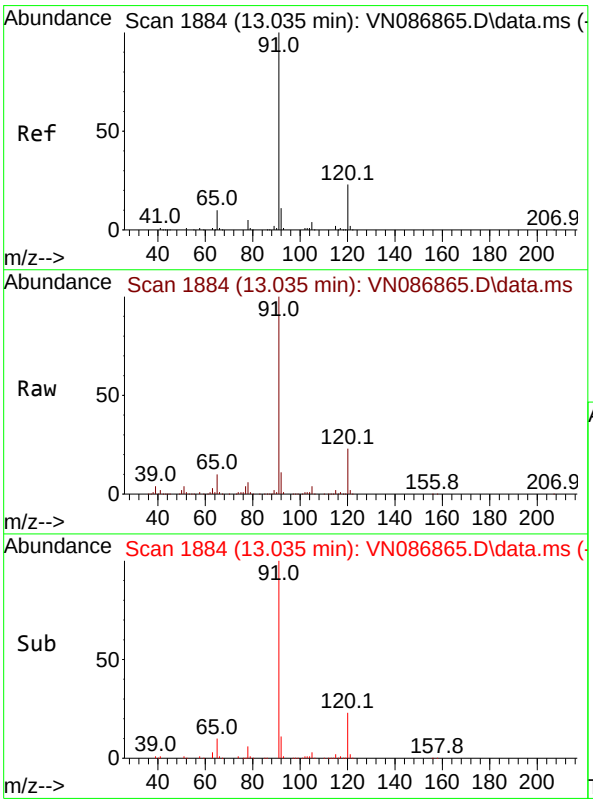
#77
Bromobenzene
Concen: 47.296 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 132381

Ion	Ratio	Lower	Upper
156	100		
77	235.4	117.7	353.1
158	96.3	48.1	144.4

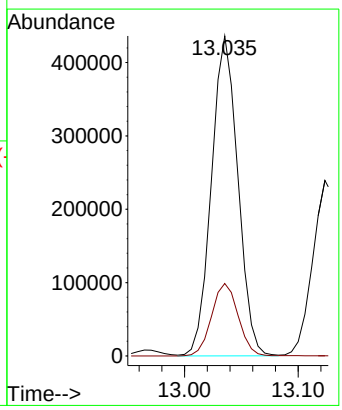


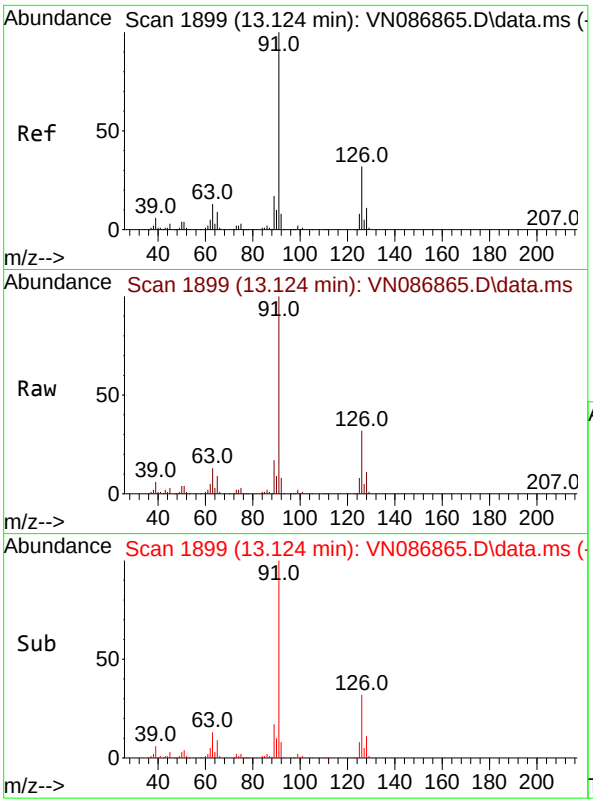


#78
n-propylbenzene
Concen: 47.567 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 91 Resp: 705524

Ion	Ratio	Lower	Upper
91	100		
120	22.8	11.4	34.2



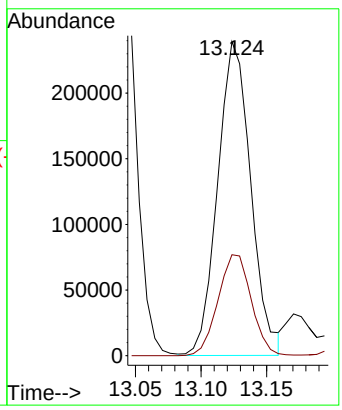


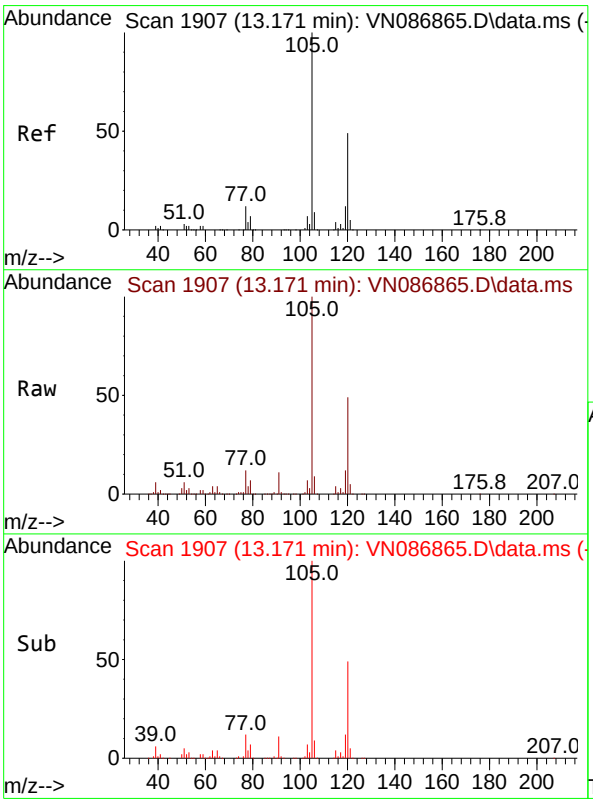
#79
2-Chlorotoluene
Concen: 47.216 ug/l
RT: 13.124 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 419986

Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.2	48.5

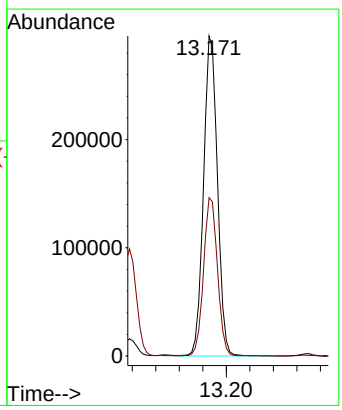


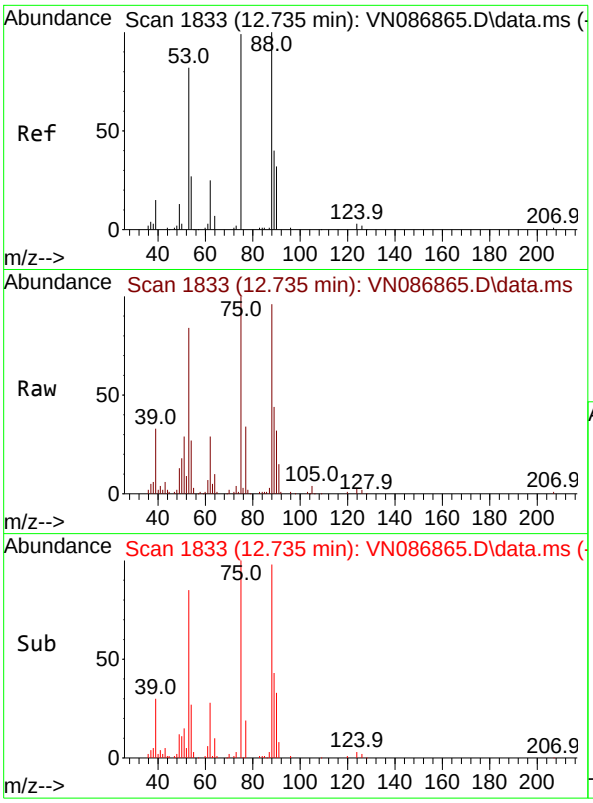


#80
1,3,5-Trimethylbenzene
Concen: 48.181 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:105 Resp: 485499

Ion	Ratio	Lower	Upper
105	100		
120	49.7	24.9	74.6



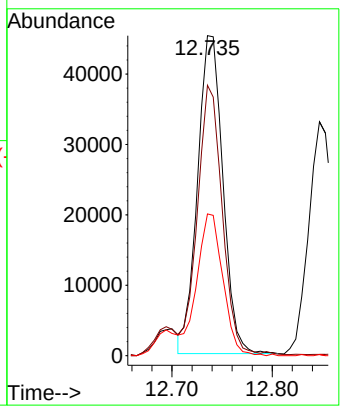


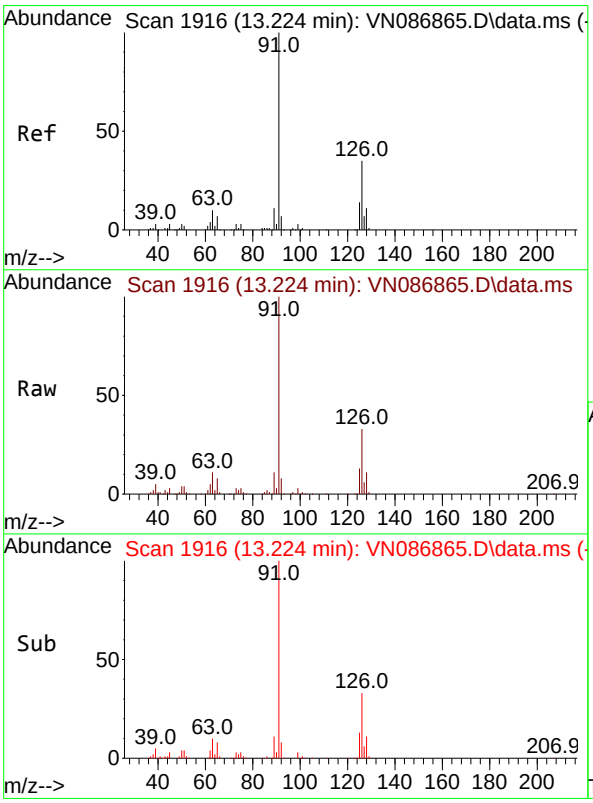
#81
trans-1,4-Dichloro-2-butene
Concen: 46.089 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 79732

Ion	Ratio	Lower	Upper
75	100		
53	83.2	66.6	99.8
89	45.9	36.7	55.1

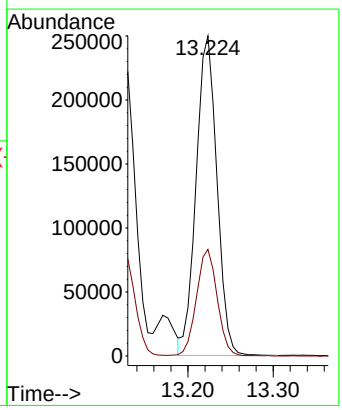


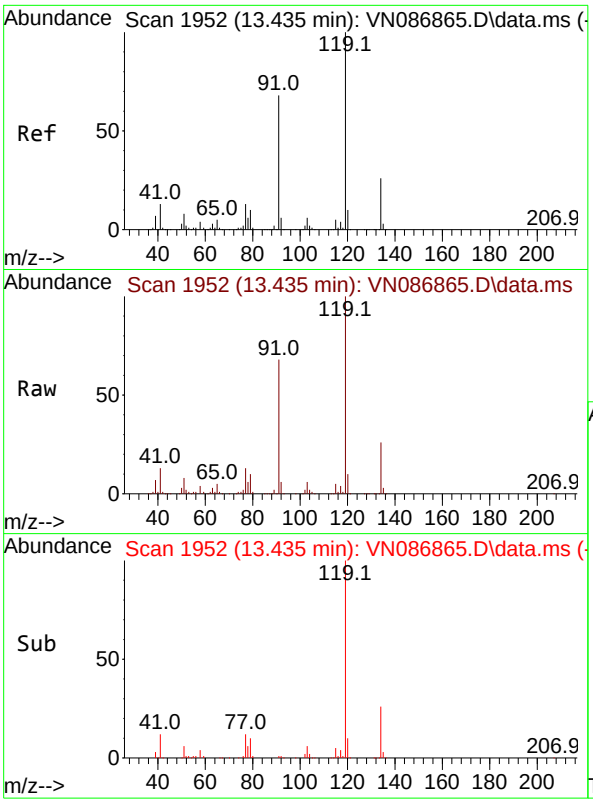


#82
4-Chlorotoluene
Concen: 47.117 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 91 Resp: 424066

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.7	50.1



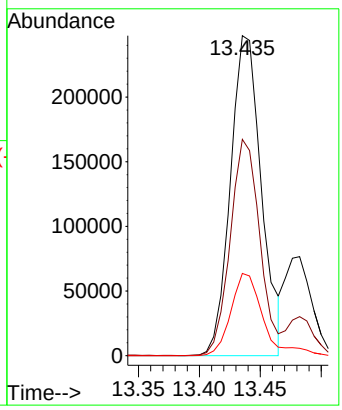


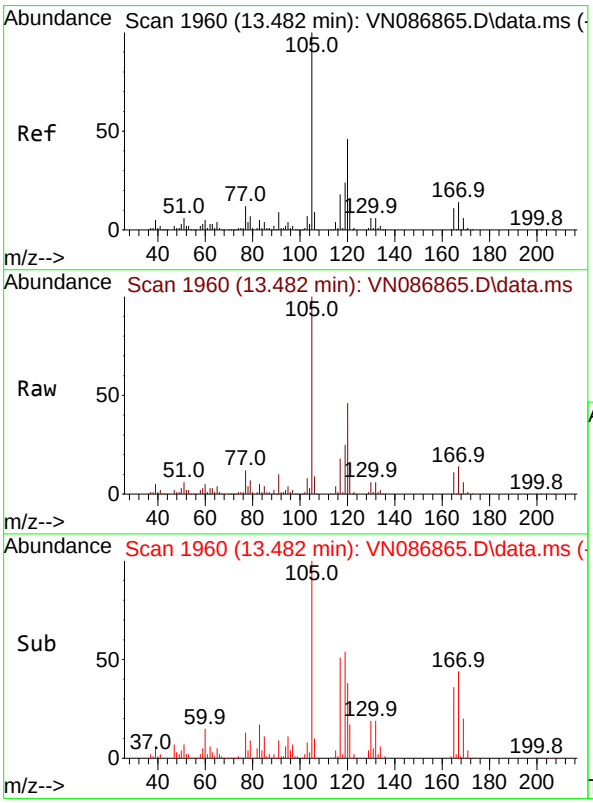
#83
tert-Butylbenzene
Concen: 47.531 ug/l
RT: 13.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 438417

Ion	Ratio	Lower	Upper
119	100		
91	64.3	32.1	96.5
134	26.7	13.4	40.1

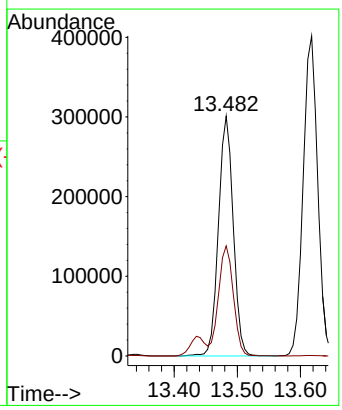


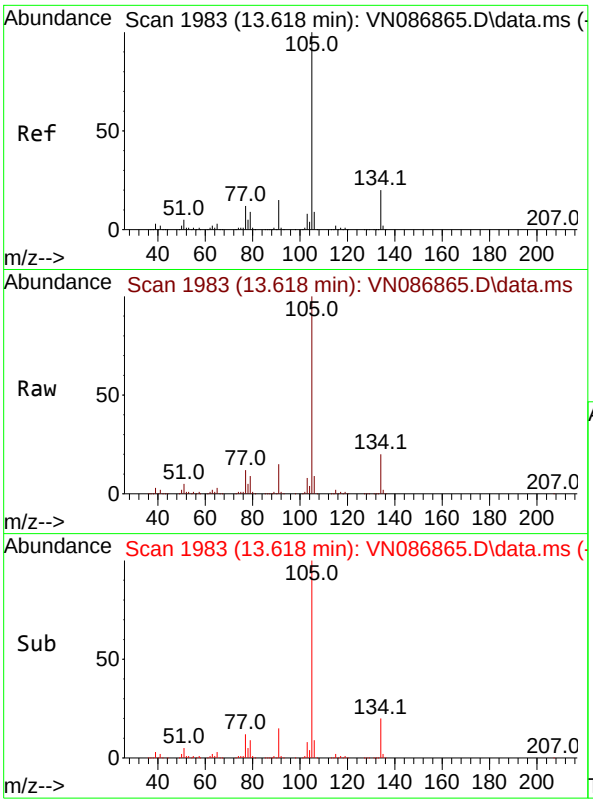


#84
1,2,4-Trimethylbenzene
Concen: 48.314 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:105 Resp: 488189

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.2	69.6



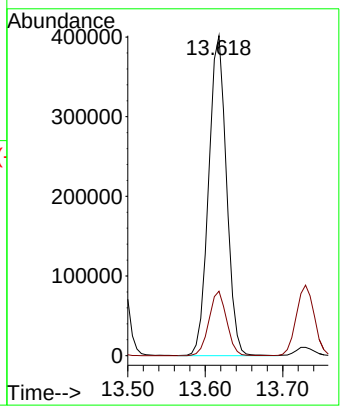


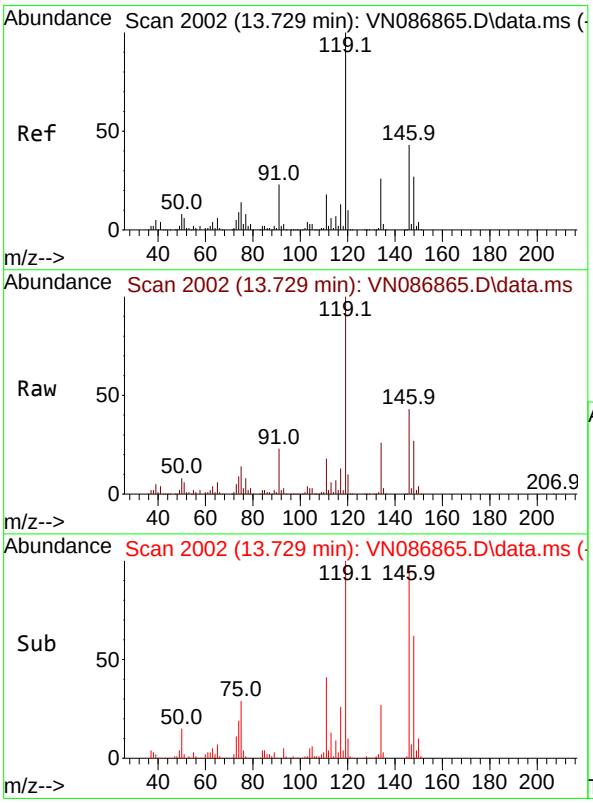
#85
sec-Butylbenzene
Concen: 47.893 ug/l
RT: 13.618 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 641523

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	30.0

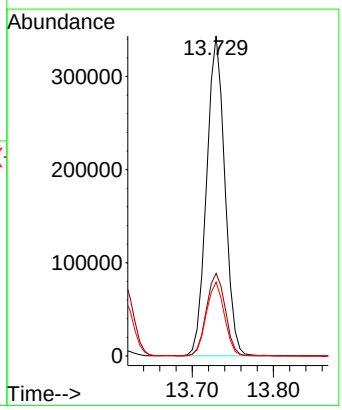


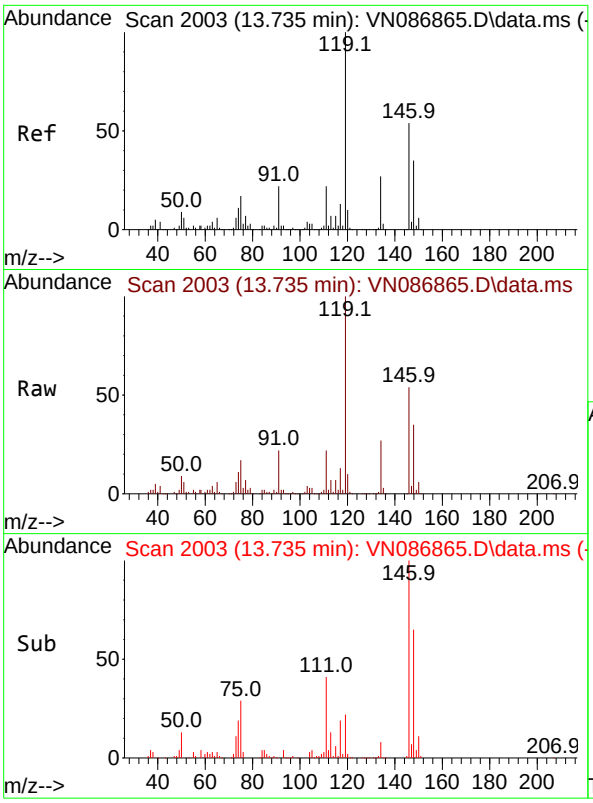


#86
p-Isopropyltoluene
Concen: 48.169 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:119 Resp: 533366

Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.5	40.4
91	22.9	11.5	34.4



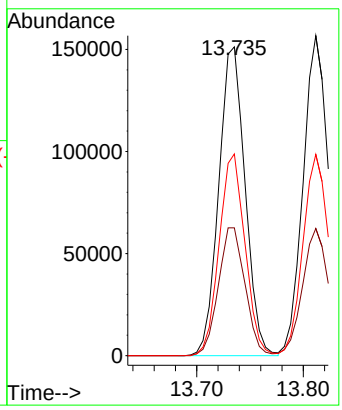


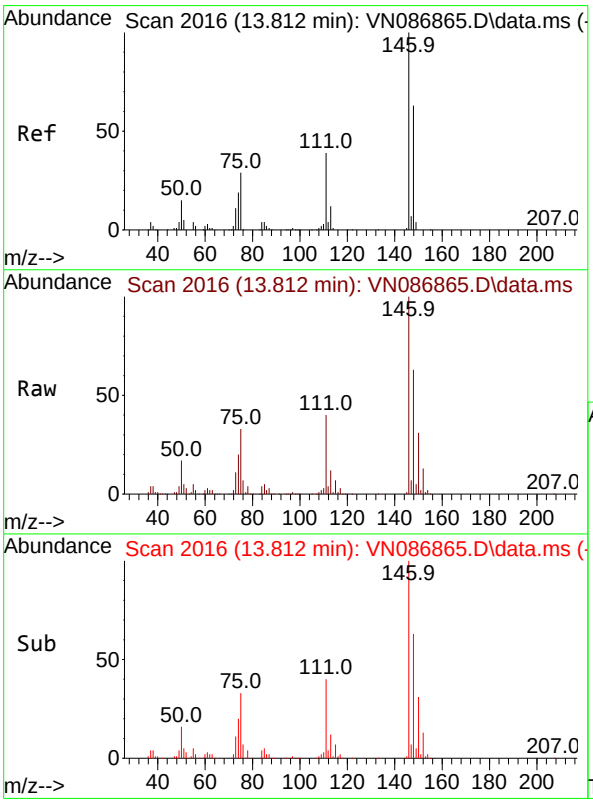
#87
1,3-Dichlorobenzene
Concen: 47.269 ug/l
RT: 13.735 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 260310

Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.9	62.8
148	64.1	32.0	96.2

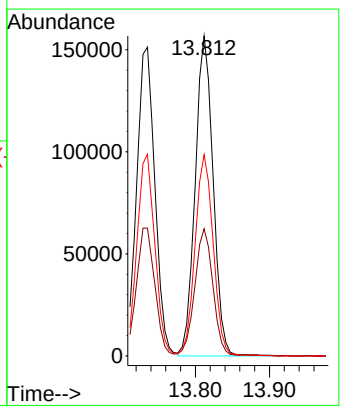


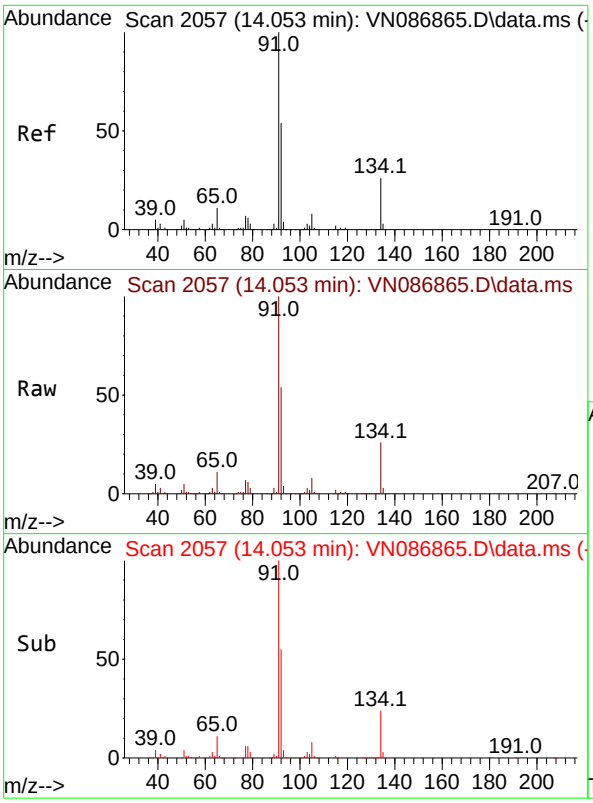


#88
1,4-Dichlorobenzene
Concen: 46.907 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:146 Resp: 263358

Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.9	59.7
148	63.6	31.8	95.4



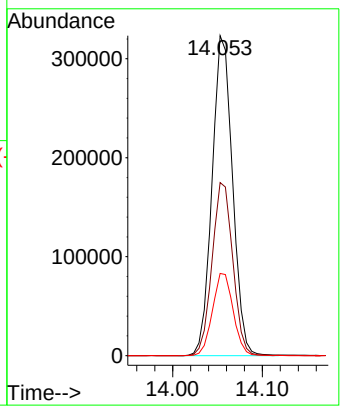


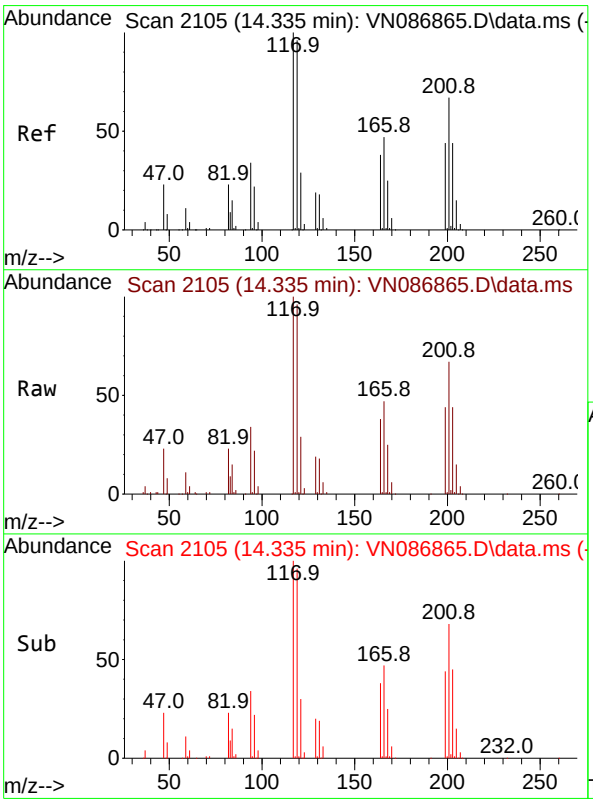
#89
n-Butylbenzene
Concen: 47.787 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 512519

Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.5	82.4
134	26.0	13.0	39.0

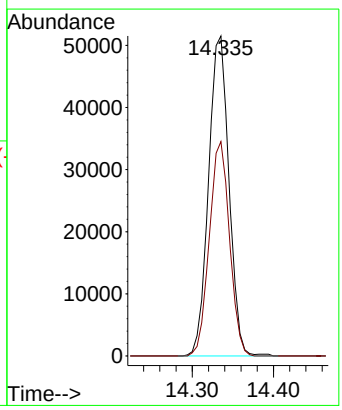


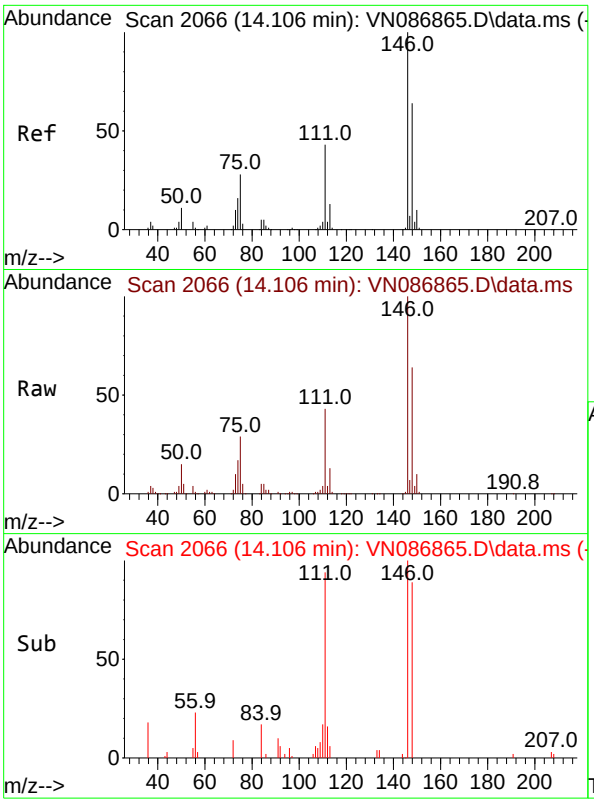


#90
Hexachloroethane
Concen: 47.896 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:117 Resp: 89896

Ion	Ratio	Lower	Upper
117	100		
201	66.4	33.2	99.6



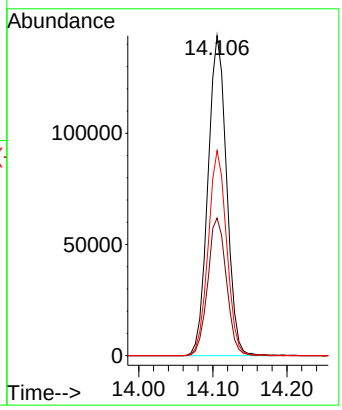


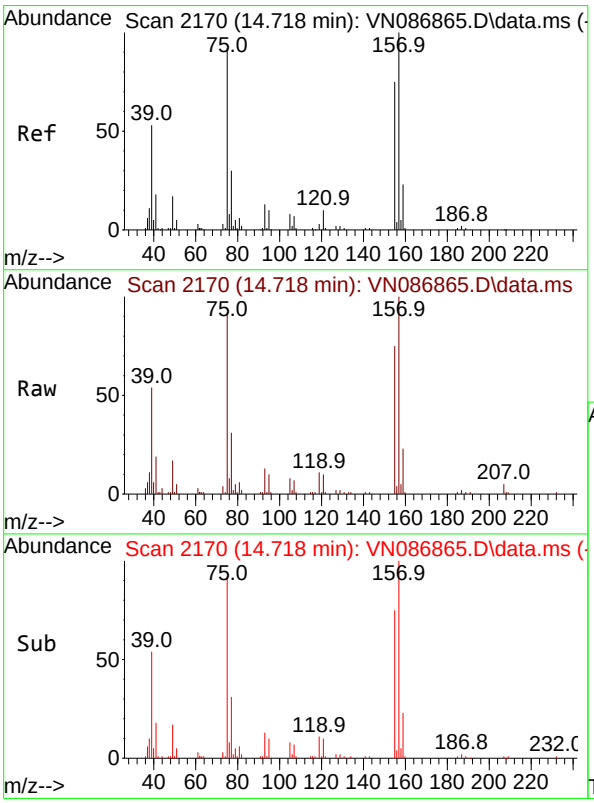
#91
1,2-Dichlorobenzene
Concen: 47.486 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 251235

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.6	64.6
148	63.4	31.7	95.1

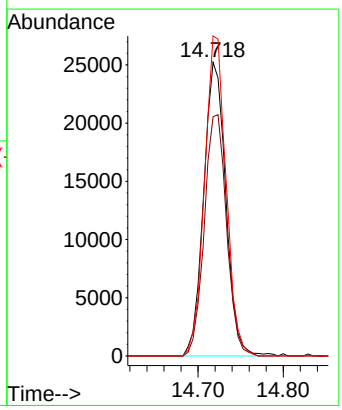


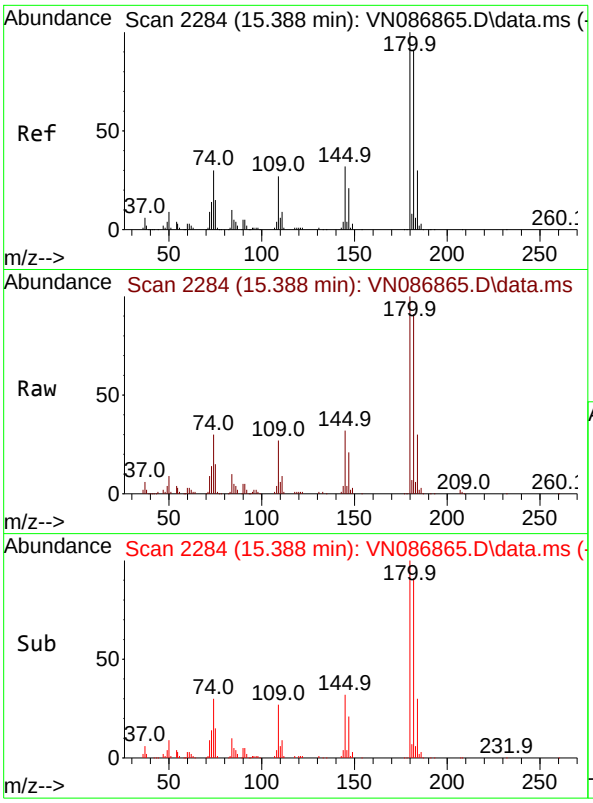


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.049 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 75 Resp: 45535

Ion	Ratio	Lower	Upper
75	100		
155	82.3	41.1	123.4
157	105.4	52.7	158.1



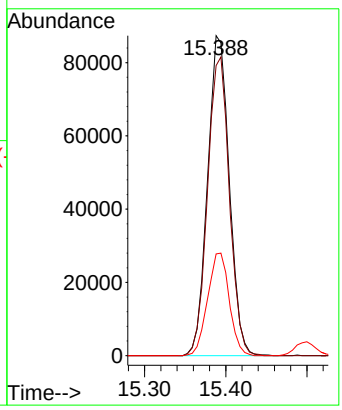


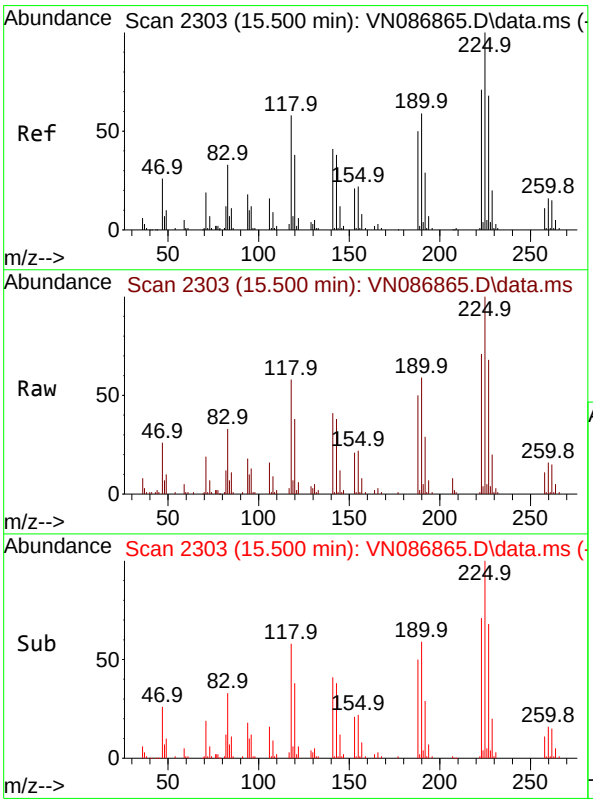
#93
1,2,4-Trichlorobenzene
Concen: 48.061 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:180 Resp: 162374

Ion	Ratio	Lower	Upper
180	100		
182	93.8	46.9	140.7
145	31.9	16.0	47.9

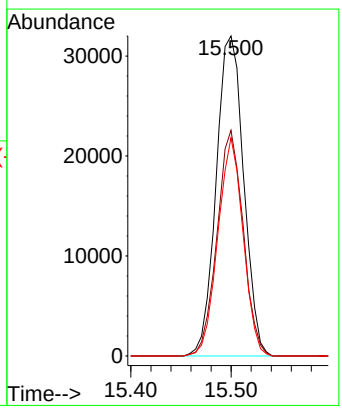


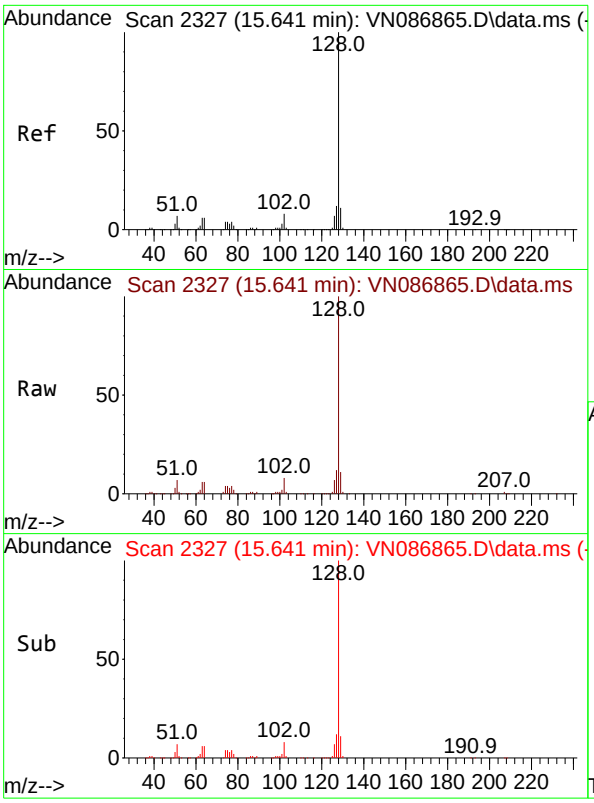


#94
Hexachlorobutadiene
Concen: 48.356 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:225 Resp: 60866

Ion	Ratio	Lower	Upper
225	100		
223	66.9	33.5	100.4
227	62.3	31.1	93.5



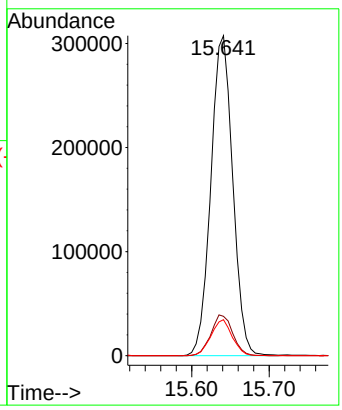


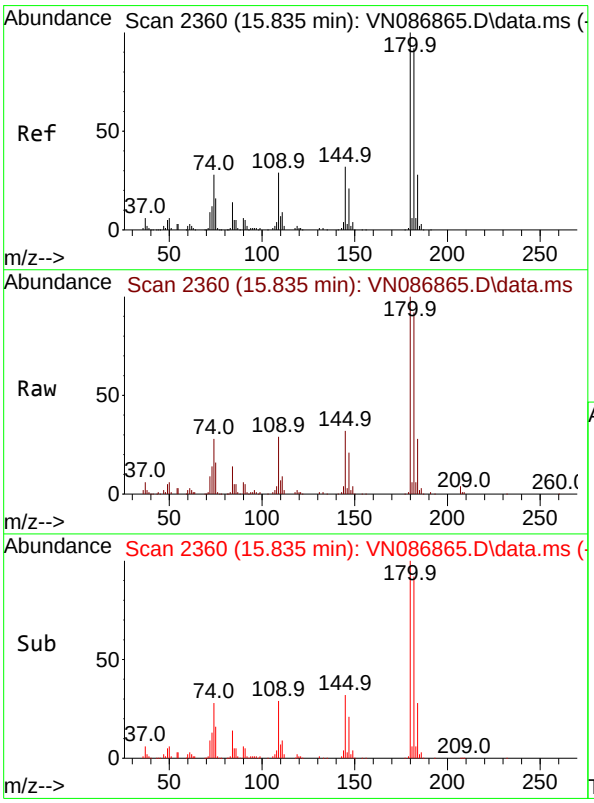
#95
Naphthalene
Concen: 47.958 ug/l
RT: 15.641 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 603088

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.2	15.2
129	11.0	8.8	13.2

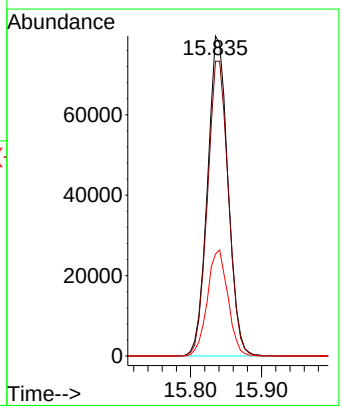




#96
1,2,3-Trichlorobenzene
Concen: 47.402 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:180 Resp: 159113

Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.0	141.0
145	33.2	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086866.D
Acq On : 06 Jun 2025 14:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Jun 07 01:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	181996	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	327782	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	290313	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	147098	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	238957	98.065	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 196.120%#			
35) Dibromofluoromethane	8.177	113	195212	100.495	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 200.980%#			
50) Toluene-d8	10.570	98	772210	100.419	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 200.840%#			
62) 4-Bromofluorobenzene	12.847	95	292385	102.339	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 204.680%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	194799	107.350	ug/l	100
3) Chloromethane	2.395	50	224558	95.833	ug/l	98
4) Vinyl Chloride	2.553	62	245135	101.414	ug/l	98
5) Bromomethane	2.977	94	137967	101.996	ug/l	99
6) Chloroethane	3.147	64	152150	97.447	ug/l	97
7) Trichlorofluoromethane	3.524	101	312394	98.917	ug/l	99
8) Diethyl Ether	3.983	74	139844	101.631	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.389	101	198739	100.163	ug/l	99
10) Methyl Iodide	4.612	142	262771	102.162	ug/l	99
11) Tert butyl alcohol	5.547	59	327987	496.062	ug/l	99
12) 1,1-Dichloroethene	4.359	96	200212	98.838	ug/l	99
13) Acrolein	4.200	56	94171	449.961	ug/l	98
14) Allyl chloride	5.047	41	329412	98.055	ug/l	99
15) Acrylonitrile	5.735	53	770470	498.552	ug/l	99
16) Acetone	4.447	43	608178	470.648	ug/l	98
17) Carbon Disulfide	4.736	76	544511	97.179	ug/l	100
18) Methyl Acetate	5.047	43	381808	101.390	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	735694	100.306	ug/l	100
20) Methylene Chloride	5.294	84	228800	94.575	ug/l	97
21) trans-1,2-Dichloroethene	5.806	96	215177	95.476	ug/l	99
22) Diisopropyl ether	6.688	45	696881	98.409	ug/l	98
23) Vinyl Acetate	6.618	43	2919350	487.936	ug/l	100
24) 1,1-Dichloroethane	6.588	63	404207	99.186	ug/l	99
25) 2-Butanone	7.494	43	1043385	496.743	ug/l	100
26) 2,2-Dichloropropane	7.500	77	331995	104.729	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	265248	98.410	ug/l	99
28) Bromochloromethane	7.824	49	188050	93.851	ug/l	99
29) Tetrahydrofuran	7.847	42	677636	495.240	ug/l	99
30) Chloroform	7.977	83	394927	97.040	ug/l	99
31) Cyclohexane	8.265	56	374933	94.869	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	336819	97.306	ug/l	99
36) 1,1-Dichloropropene	8.382	75	289907	100.156	ug/l	99
37) Ethyl Acetate	7.571	43	370652	100.591	ug/l	99
38) Carbon Tetrachloride	8.371	117	285325	100.404	ug/l	98
39) Methylcyclohexane	9.606	83	395603	99.758	ug/l	99
40) Benzene	8.612	78	927083	97.946	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086866.D
Acq On : 06 Jun 2025 14:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Jun 07 01:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.794	41	195946	94.688	ug/l		95
42) 1,2-Dichloroethane	8.676	62	282015	98.232	ug/l		100
43) Isopropyl Acetate	8.694	43	579464	97.981	ug/l		99
44) Trichloroethene	9.359	130	222822	99.280	ug/l		97
45) 1,2-Dichloropropane	9.629	63	230454	100.077	ug/l		98
46) Dibromomethane	9.712	93	155530	101.685	ug/l		99
47) Bromodichloromethane	9.894	83	316375	100.533	ug/l		100
48) Methyl methacrylate	9.682	41	275710	101.288	ug/l		99
49) 1,4-Dioxane	9.706	88	104771	2115.744	ug/l	#	99
51) 4-Methyl-2-Pentanone	10.447	43	1843274	517.729	ug/l		99
52) Toluene	10.635	92	578978	100.092	ug/l		100
53) t-1,3-Dichloropropene	10.841	75	359200	102.077	ug/l		99
54) cis-1,3-Dichloropropene	10.318	75	383030	101.730	ug/l		99
55) 1,1,2-Trichloroethane	11.017	97	219922	98.808	ug/l		98
56) Ethyl methacrylate	10.882	69	389802	109.955	ug/l		99
57) 1,3-Dichloropropane	11.165	76	382510	99.069	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.165	63	1113523	526.621	ug/l		100
59) 2-Hexanone	11.200	43	1301539	567.535	ug/l		99
60) Dibromochloromethane	11.359	129	237965	102.616	ug/l		100
61) 1,2-Dibromoethane	11.470	107	232214	101.787	ug/l		98
64) Tetrachloroethene	11.106	164	181568	98.824	ug/l		94
65) Chlorobenzene	11.894	112	632563	98.793	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	206895	100.521	ug/l		100
67) Ethyl Benzene	11.964	91	1110803	100.717	ug/l		99
68) m/p-Xylenes	12.070	106	854557	202.411	ug/l		99
69) o-Xylene	12.400	106	412719	102.070	ug/l		100
70) Styrene	12.412	104	713548	103.127	ug/l		100
71) Bromoform	12.576	173	165781	108.707	ug/l	#	99
73) Isopropylbenzene	12.694	105	1065297	99.410	ug/l		100
74) N-amyl acetate	12.506	43	403587	113.475	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.941	83	354386	97.616	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	485083	138.300	ug/l		69
77) Bromobenzene	12.982	156	246413	100.266	ug/l		99
78) n-propylbenzene	13.035	91	1301631	99.948	ug/l		100
79) 2-Chlorotoluene	13.123	91	770308	98.630	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	901317	101.873	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	160736	105.820	ug/l		92
82) 4-Chlorotoluene	13.223	91	783657	99.166	ug/l		100
83) tert-Butylbenzene	13.435	119	807528	99.710	ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	904794	101.983	ug/l		100
85) sec-Butylbenzene	13.617	105	1182155	100.513	ug/l		99
86) p-Isopropyltoluene	13.729	119	990273	101.857	ug/l		100
87) 1,3-Dichlorobenzene	13.735	146	474162	98.063	ug/l		100
88) 1,4-Dichlorobenzene	13.811	146	483003	97.978	ug/l		99
89) n-Butylbenzene	14.053	91	937913	99.598	ug/l		100
90) Hexachloroethane	14.335	117	169772	103.019	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	458049	98.602	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	83243	95.877	ug/l		96
93) 1,2,4-Trichlorobenzene	15.394	180	298870	100.751	ug/l		99
94) Hexachlorobutadiene	15.500	225	112496	101.789	ug/l		98
95) Naphthalene	15.641	128	1129434	102.290	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	294127	99.796	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086866.D
Acq On : 06 Jun 2025 14:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Jun 07 01:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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

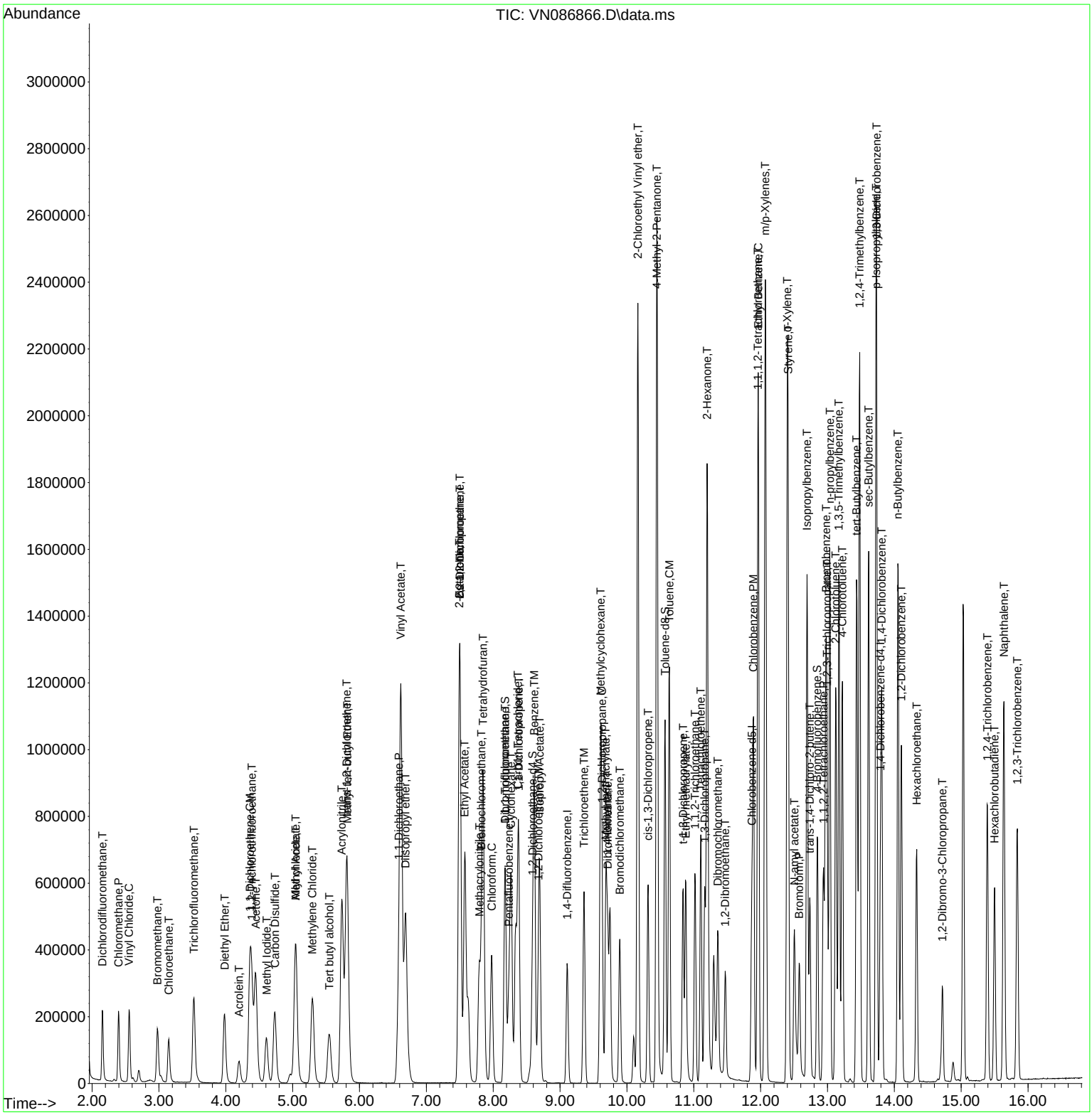
(#) = qualifier out of range (m) = manual integration (+) = signals summed

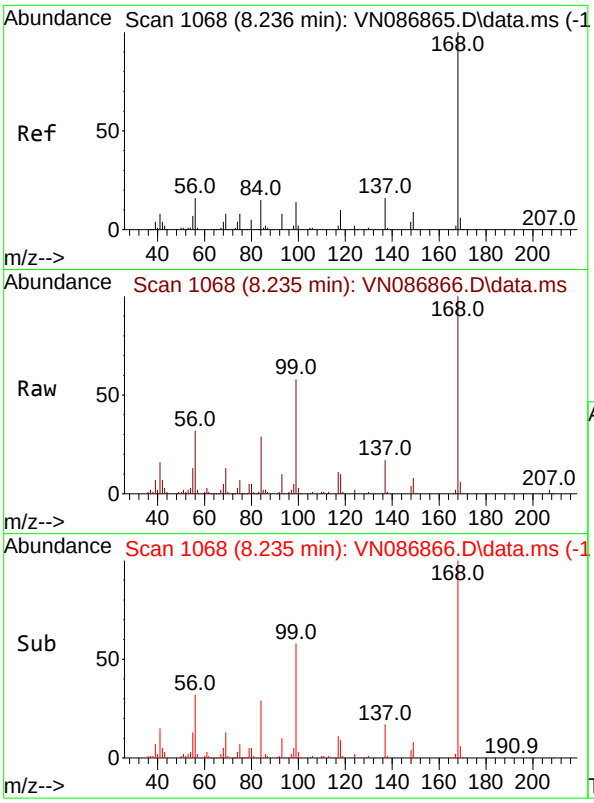
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086866.D
Acq On : 06 Jun 2025 14:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Quant Time: Jun 07 01:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration



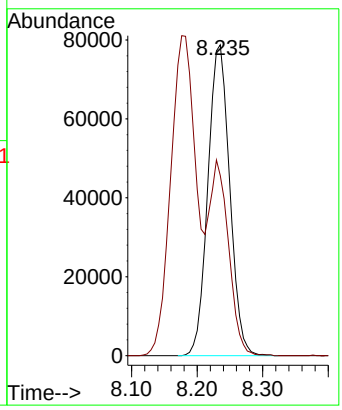


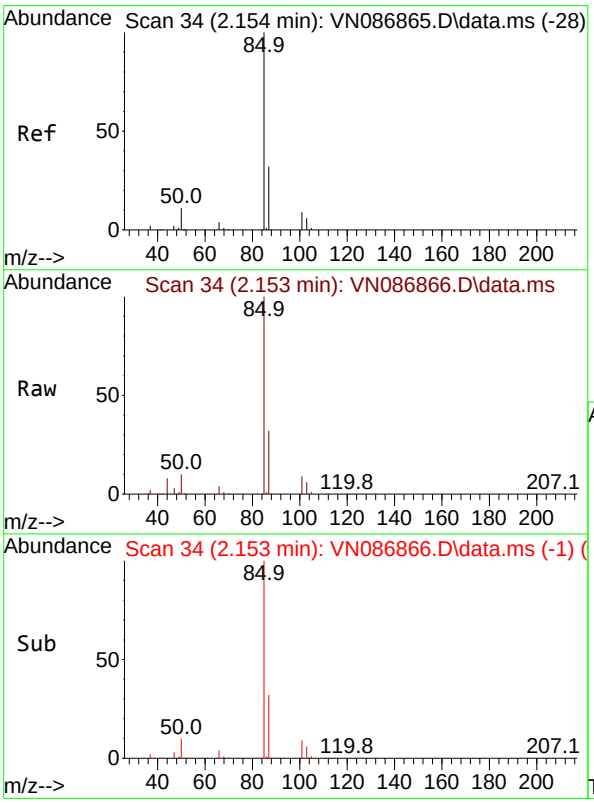
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.001 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 181996

Ion	Ratio	Lower	Upper
168	100		
99	57.9	49.1	73.7

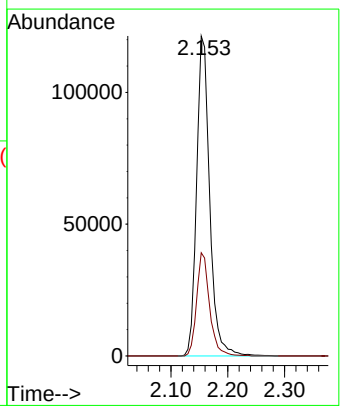


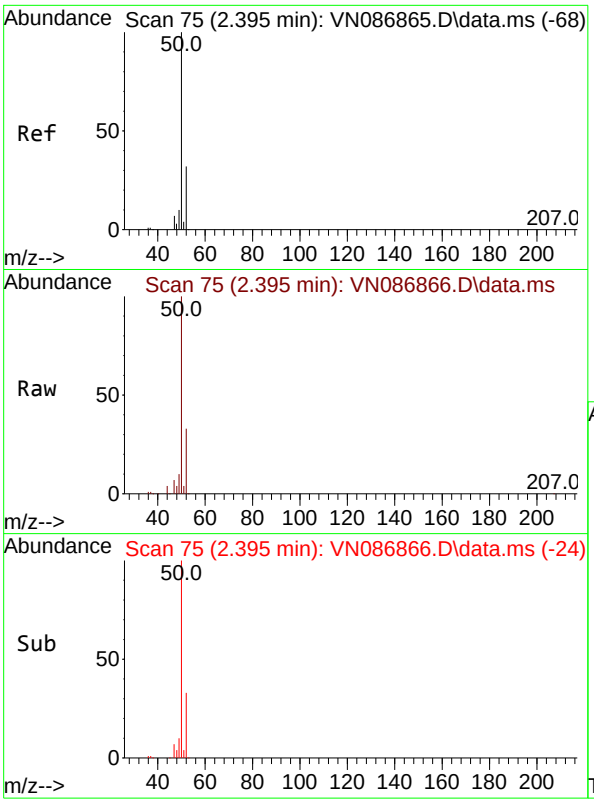


#2
Dichlorodifluoromethane
Concen: 107.350 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 85 Resp: 194799

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.2	48.6



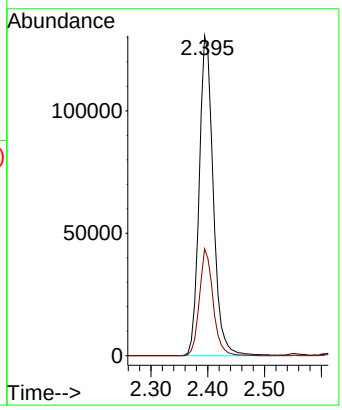


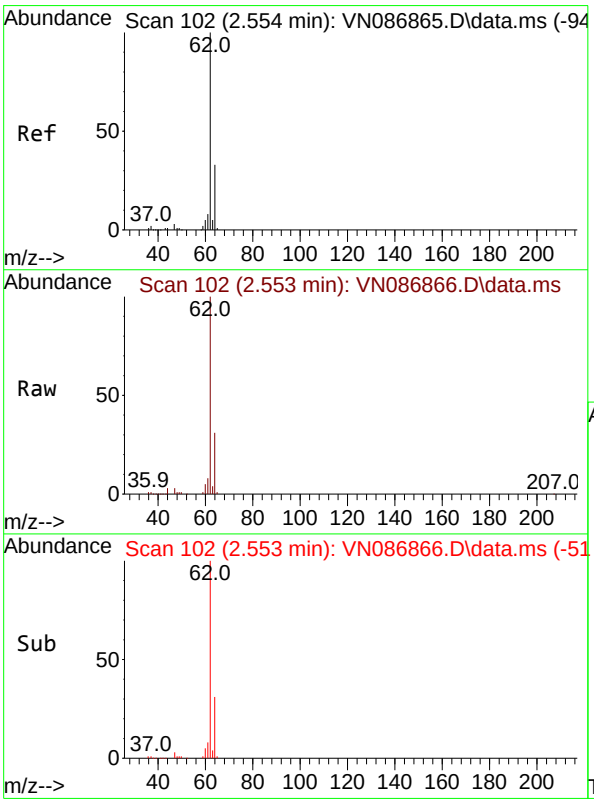
#3
Chloromethane
Concen: 95.833 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 224558

Ion	Ratio	Lower	Upper
50	100		
52	33.4	25.7	38.5

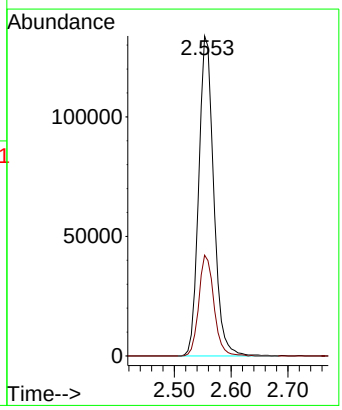


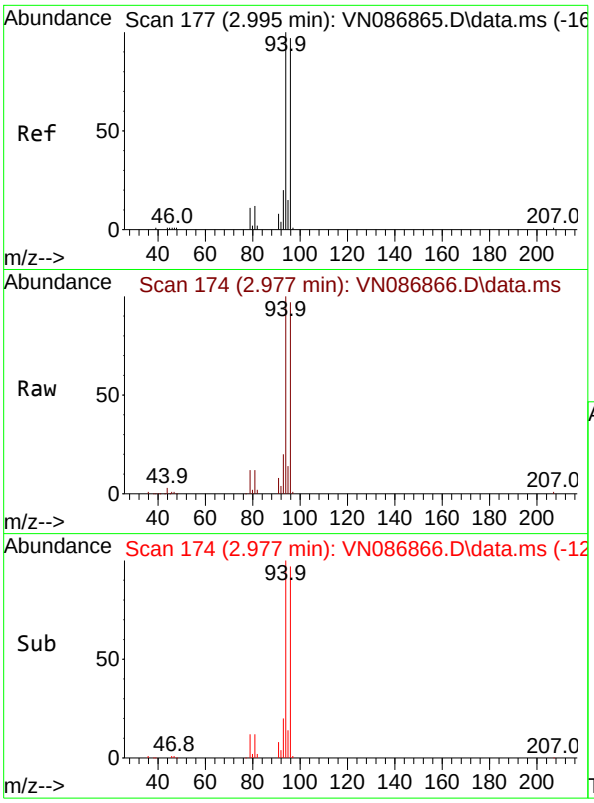


#4
Vinyl Chloride
Concen: 101.414 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 62 Resp: 245135

Ion	Ratio	Lower	Upper
62	100		
64	31.5	26.0	39.0



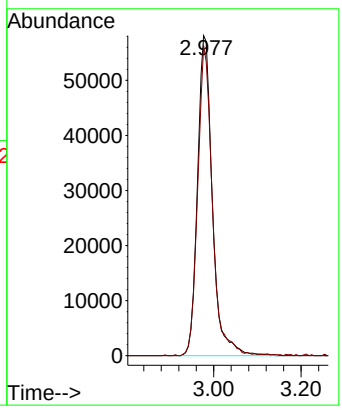


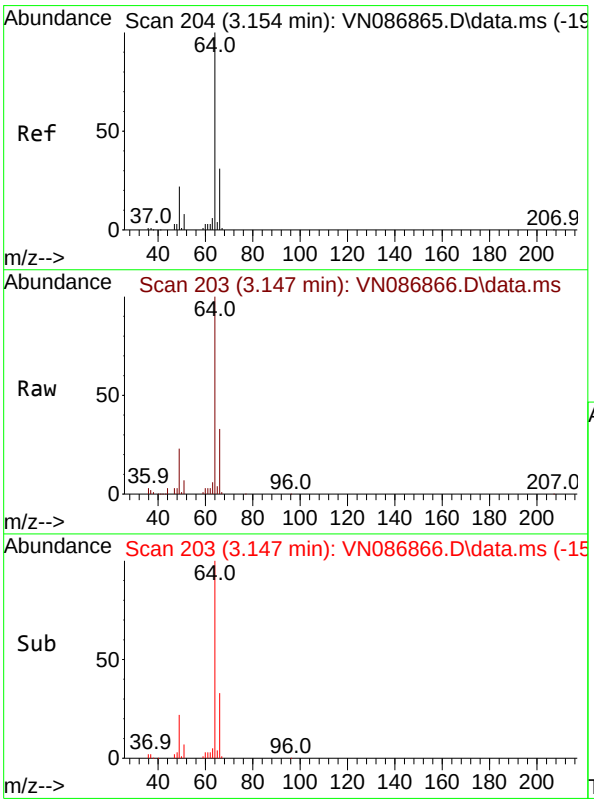
#5
Bromomethane
Concen: 101.996 ug/l
RT: 2.977 min Scan# 1
Delta R.T. -0.018 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 137967

Ion	Ratio	Lower	Upper
94	100		
96	96.8	77.9	116.9

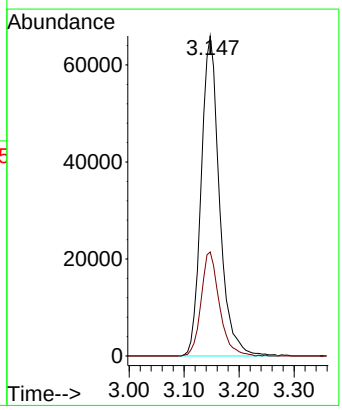


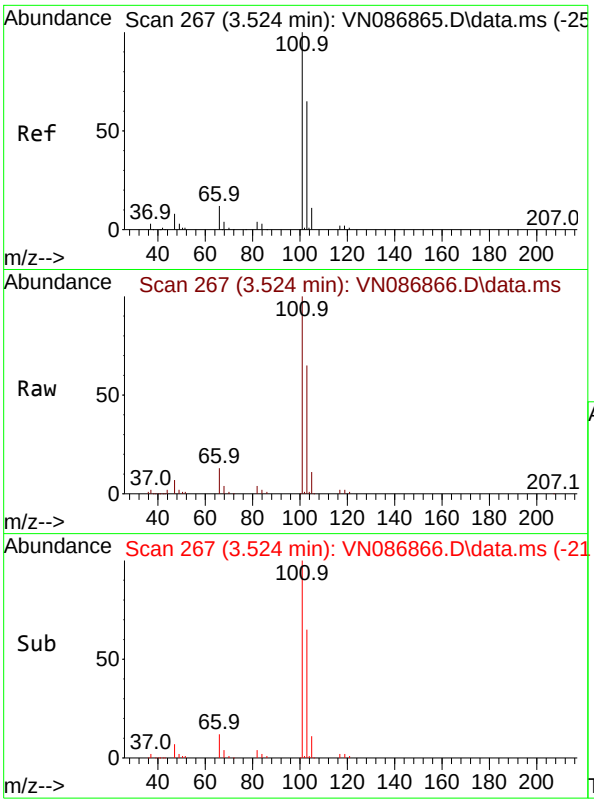


#6
Chloroethane
Concen: 97.447 ug/l
RT: 3.147 min Scan# 203
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 64 Resp: 152150

Ion	Ratio	Lower	Upper
64	100		
66	32.5	24.6	36.8



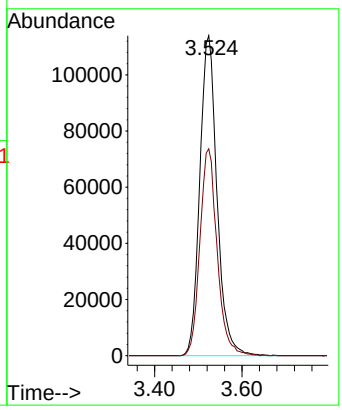


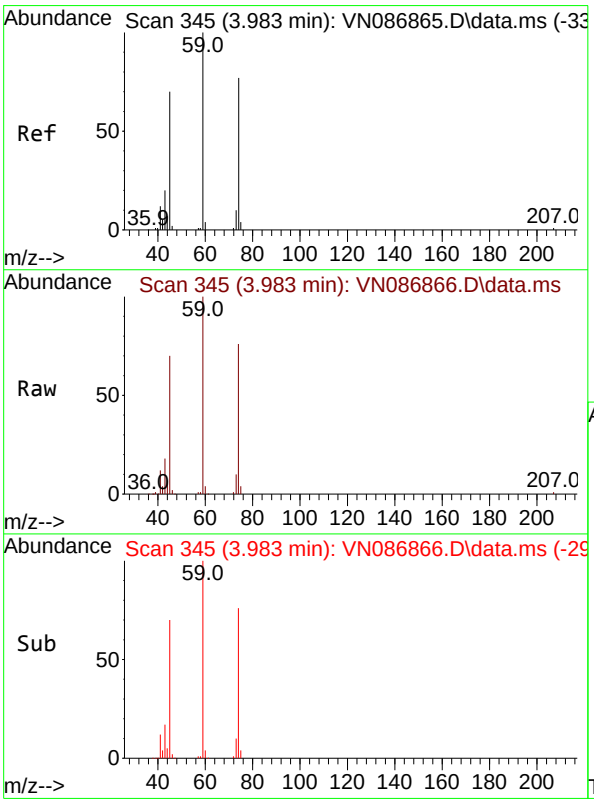
#7
Trichlorofluoromethane
Concen: 98.917 ug/l
RT: 3.524 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 312394

Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.2	78.2

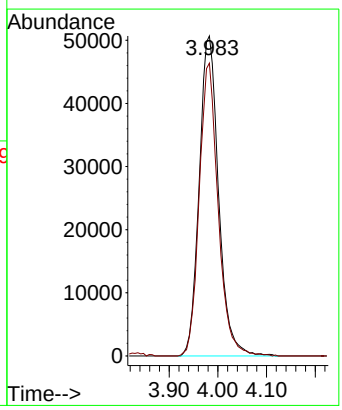


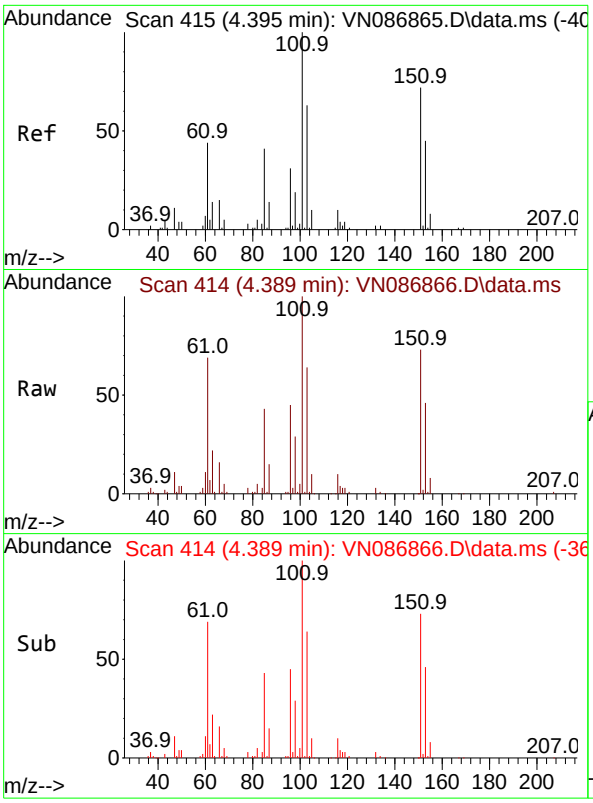


#8
Diethyl Ether
Concen: 101.631 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 74 Resp: 139844

Ion	Ratio	Lower	Upper
74	100		
45	89.5	45.5	136.5



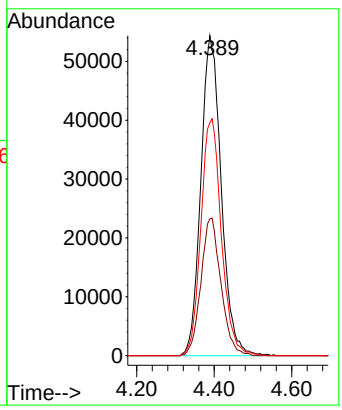


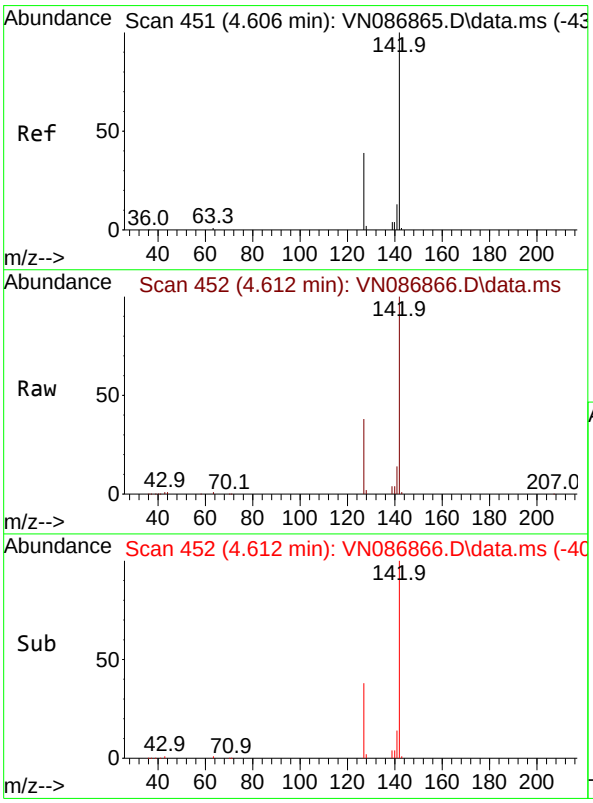
#9
1,1,2-Trichlorotrifluoroethane
Concen: 100.163 ug/l
RT: 4.389 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 198739

Ion	Ratio	Lower	Upper
101	100		
85	42.2	33.8	50.8
151	74.2	58.7	88.1

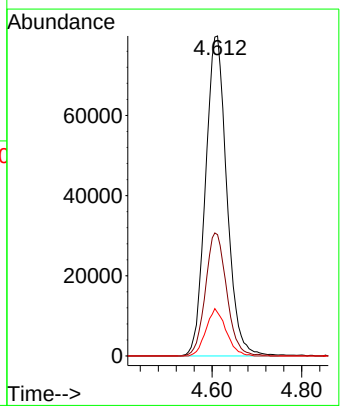


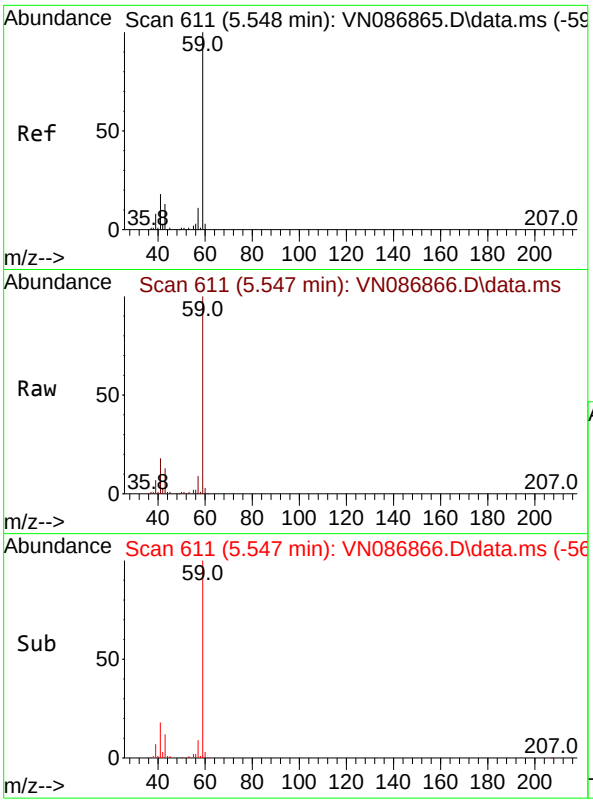


#10
Methyl Iodide
Concen: 102.162 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:142 Resp: 262771

Ion	Ratio	Lower	Upper
142	100		
127	37.9	30.9	46.3
141	13.6	10.4	15.6



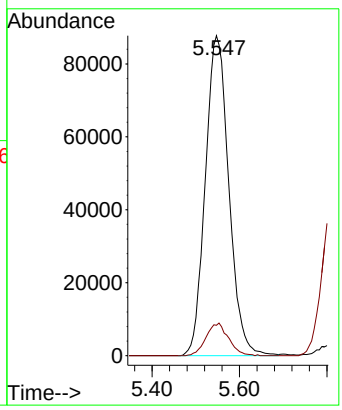


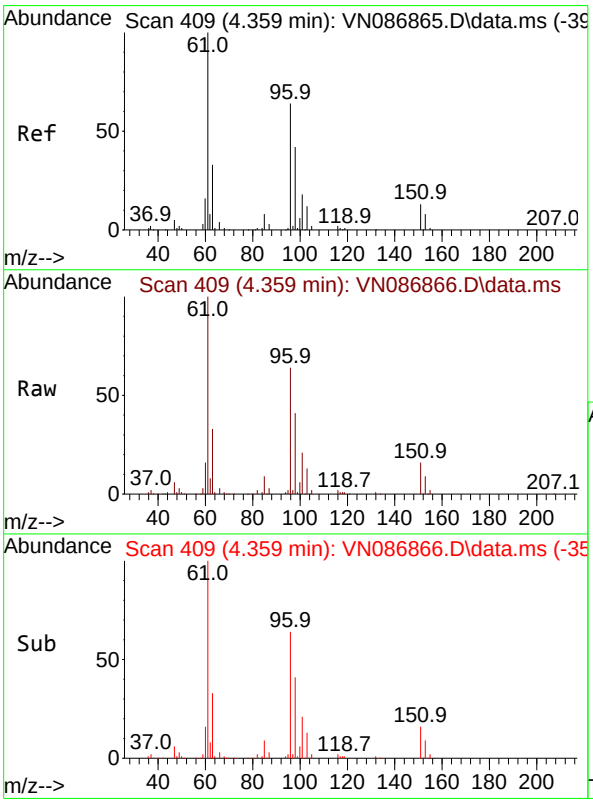
#11
Tert butyl alcohol
Concen: 496.062 ug/l
RT: 5.547 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 59 Resp: 327987

Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.1	12.1

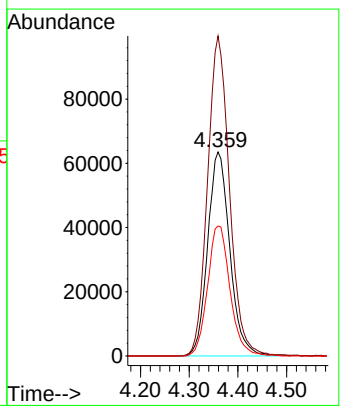


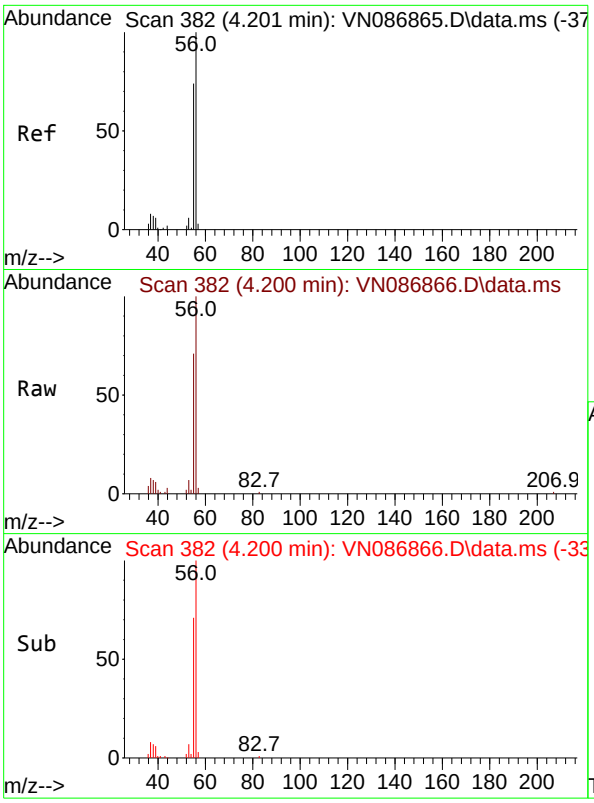


#12
1,1-Dichloroethene
Concen: 98.838 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 96 Resp: 200212

Ion	Ratio	Lower	Upper
96	100		
61	156.9	125.8	188.6
98	63.7	52.5	78.7



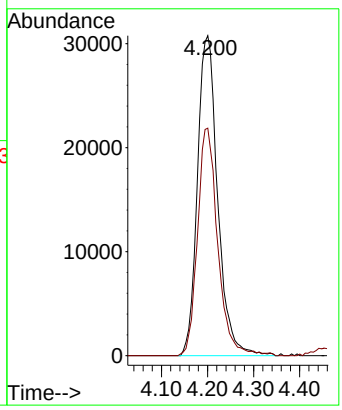


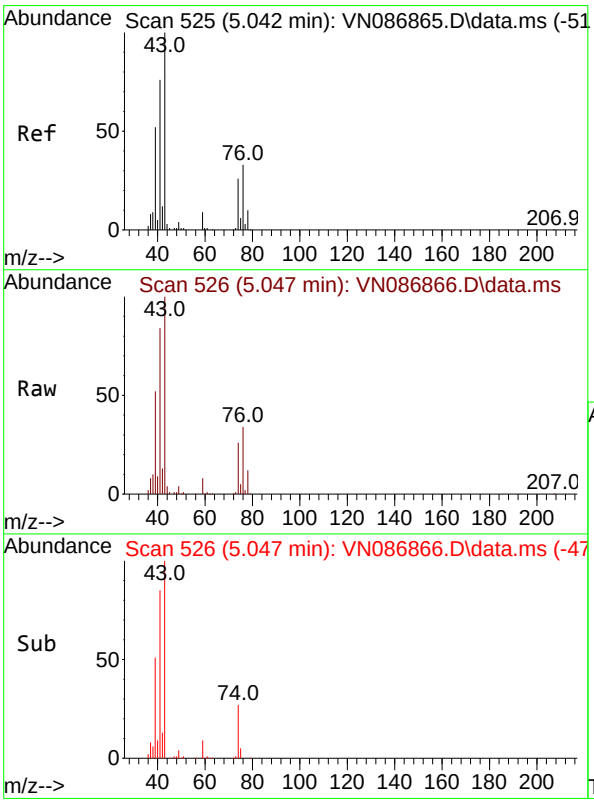
#13
Acrolein
Concen: 449.961 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 94171

Ion	Ratio	Lower	Upper
56	100		
55	70.9	55.6	83.4

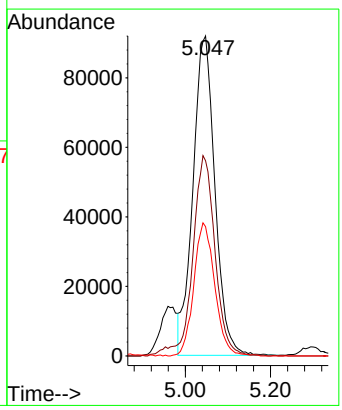


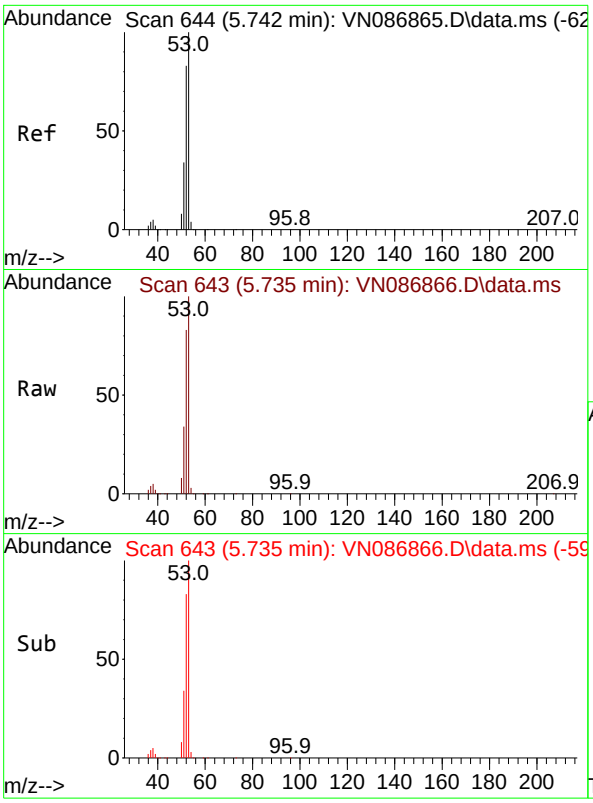


#14
Allyl chloride
Concen: 98.055 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 41 Resp: 329412

Ion	Ratio	Lower	Upper
41	100		
39	63.7	51.3	76.9
76	39.7	31.4	47.0



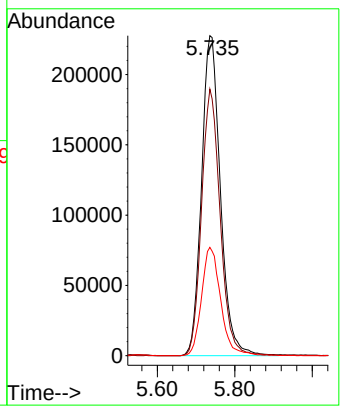


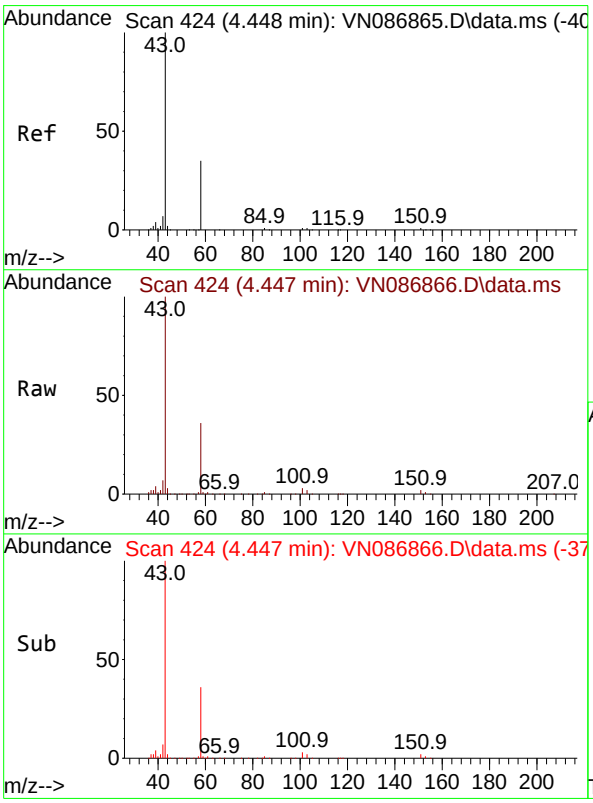
#15
Acrylonitrile
Concen: 498.552 ug/l
RT: 5.735 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 53 Resp: 770470

Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.0	97.6
51	34.4	27.2	40.8

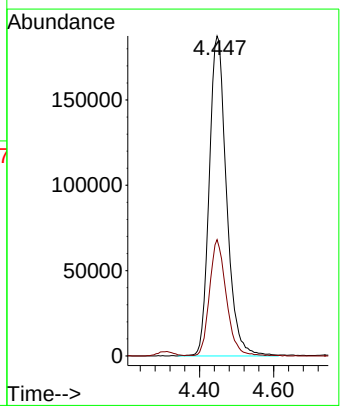


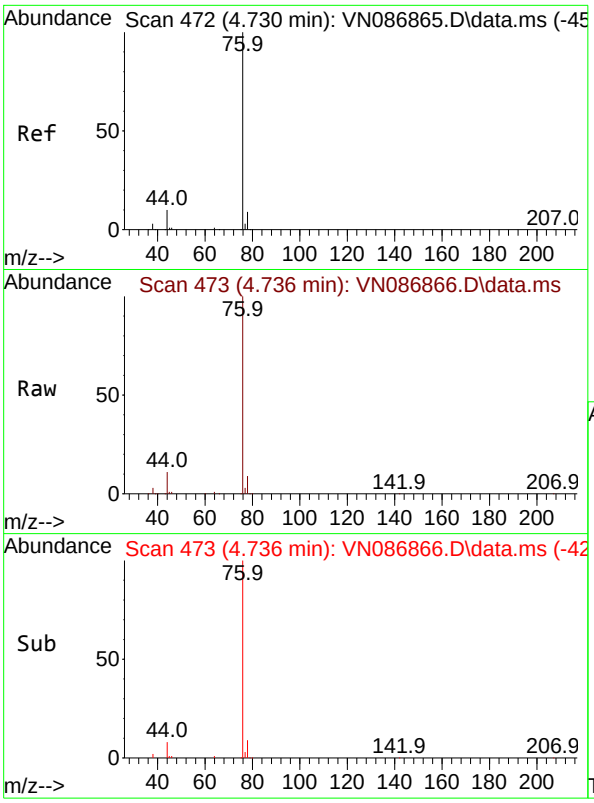


#16
Acetone
Concen: 470.648 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 43 Resp: 608178

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.0	42.0



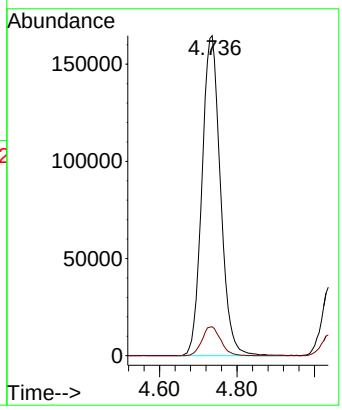


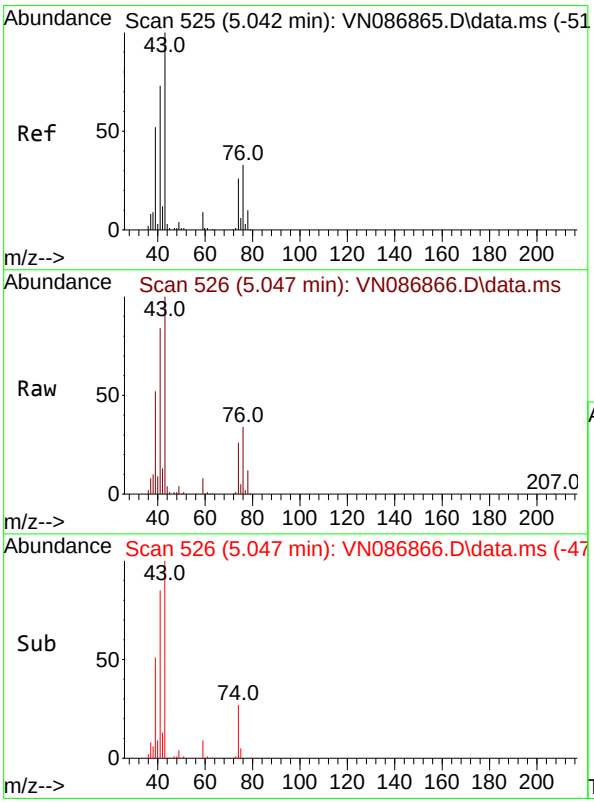
#17
Carbon Disulfide
Concen: 97.179 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 544511

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9

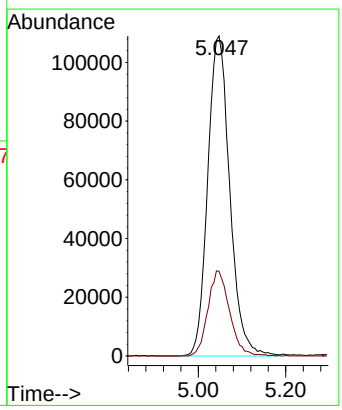


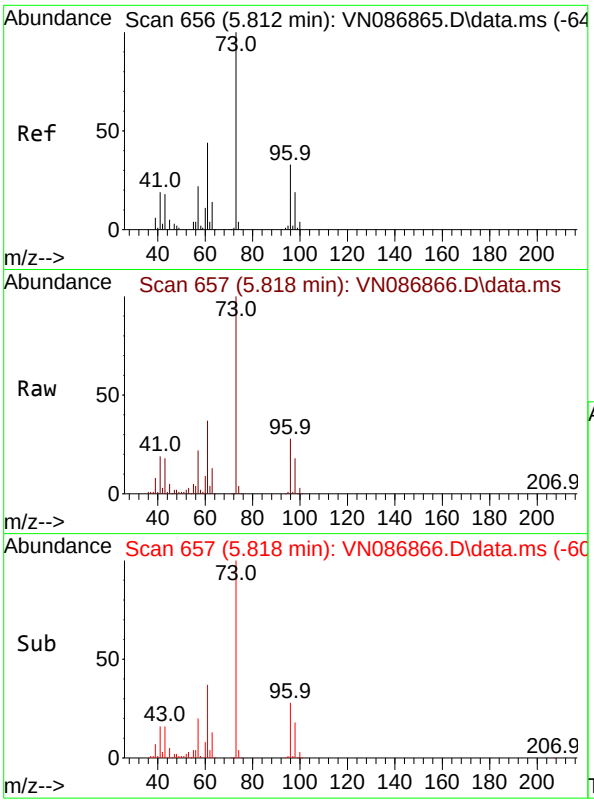


#18
Methyl Acetate
Concen: 101.390 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 43 Resp: 381808

Ion	Ratio	Lower	Upper
43	100		
74	26.1	20.7	31.1



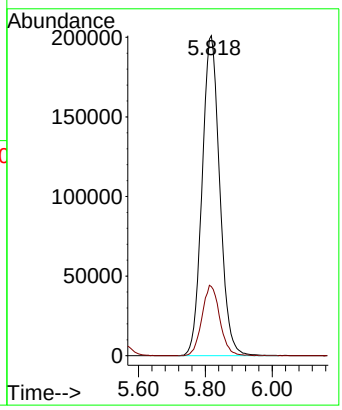


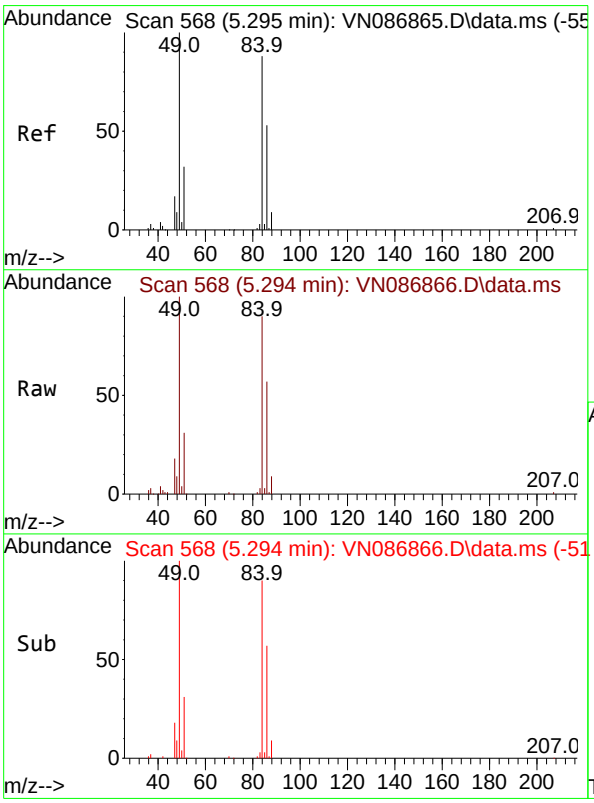
#19
Methyl tert-butyl Ether
Concen: 100.306 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 735694

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.2

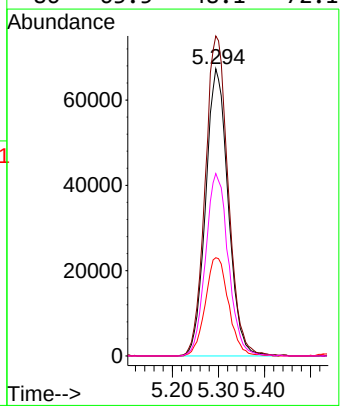


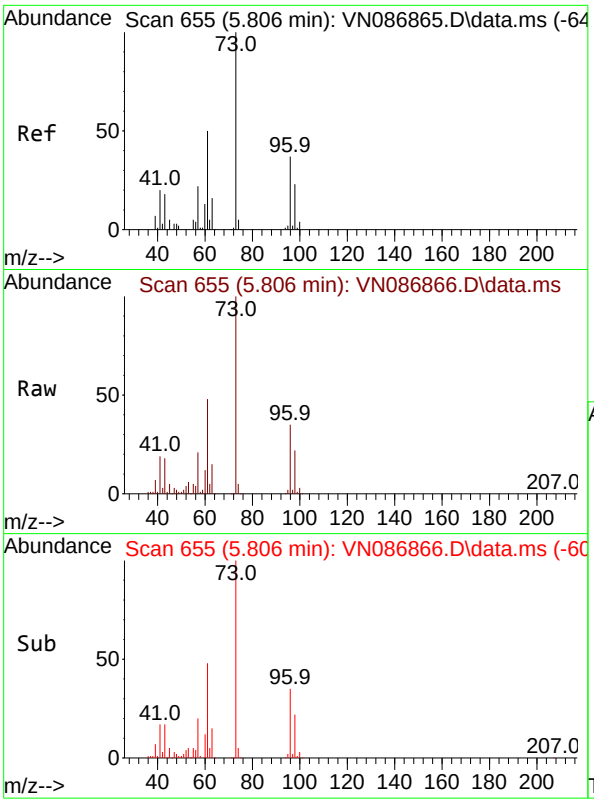


#20
Methylene Chloride
Concen: 94.575 ug/l
RT: 5.294 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 84 Resp: 228800

Ion	Ratio	Lower	Upper
84	100		
49	111.4	90.5	135.7
51	34.2	28.5	42.7
86	63.5	48.1	72.1



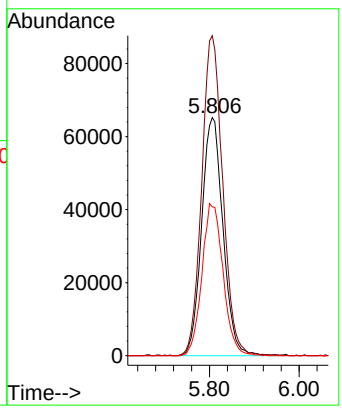


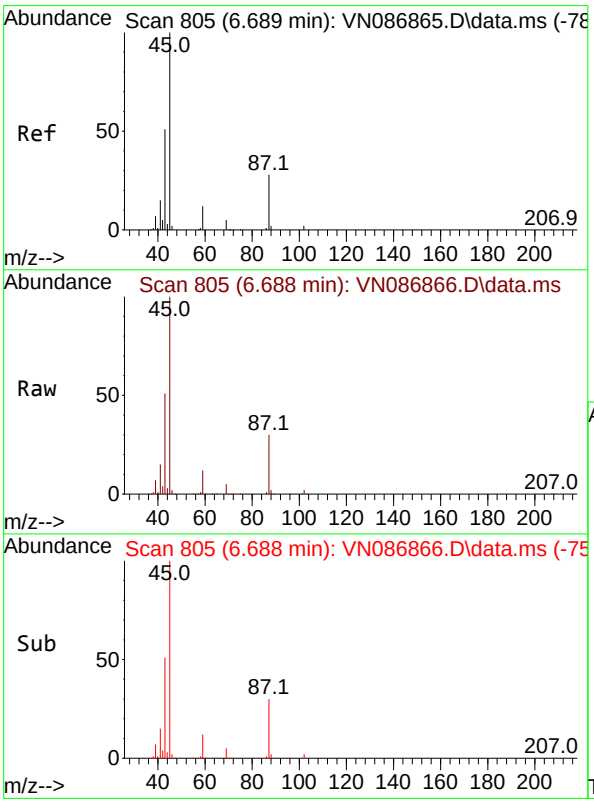
#21
trans-1,2-Dichloroethene
Concen: 95.476 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 215177

Ion	Ratio	Lower	Upper
96	100		
61	134.4	109.2	163.8
98	62.5	49.8	74.8

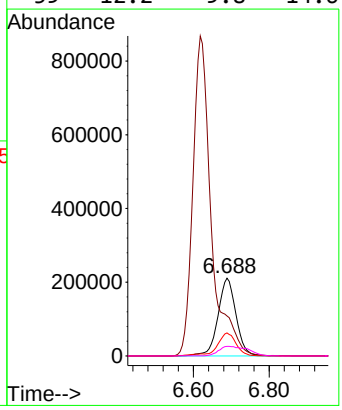


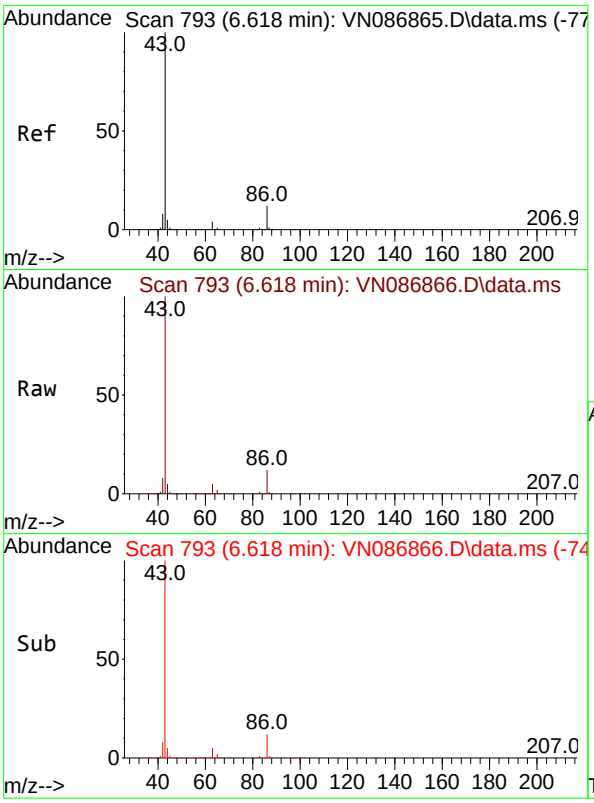


#22
Diisopropyl ether
Concen: 98.409 ug/l
RT: 6.688 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 45 Resp: 696881

Ion	Ratio	Lower	Upper
45	100		
43	51.1	41.9	62.9
87	29.6	22.4	33.6
59	12.2	9.8	14.6



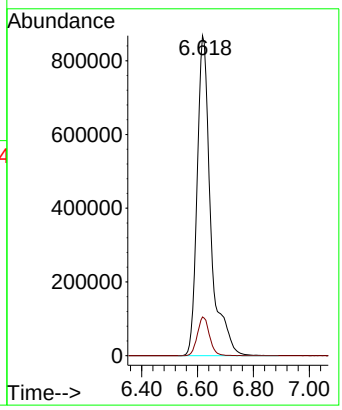


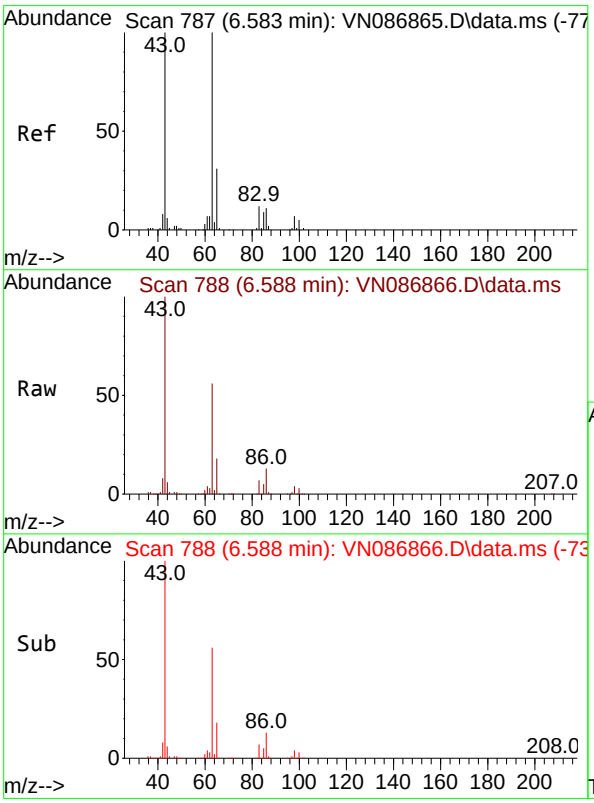
#23
Vinyl Acetate
Concen: 487.936 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 2919350

Ion	Ratio	Lower	Upper
43	100		
86	12.1	9.5	14.3

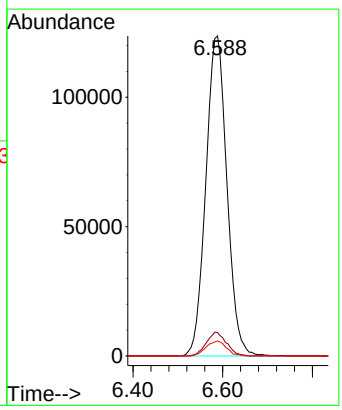


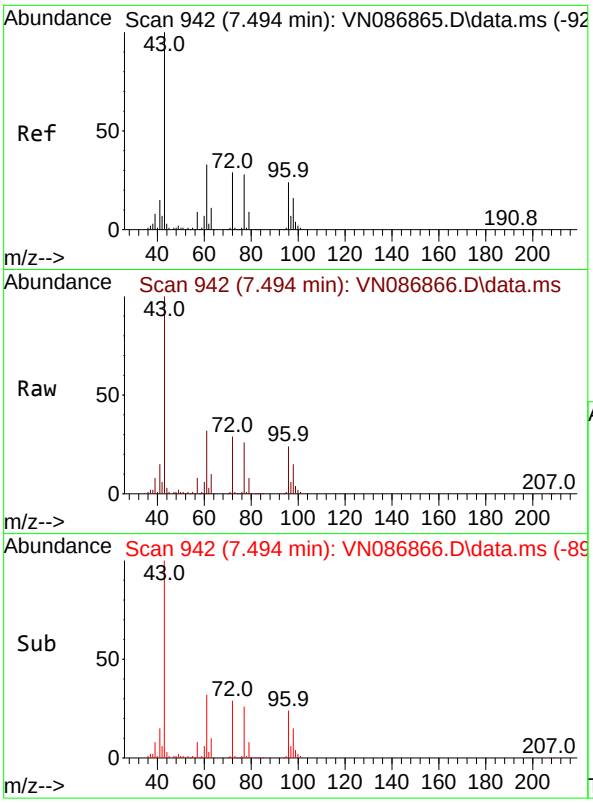


#24
1,1-Dichloroethane
Concen: 99.186 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 63 Resp: 404207

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.6	10.8
100	4.7	2.6	7.8



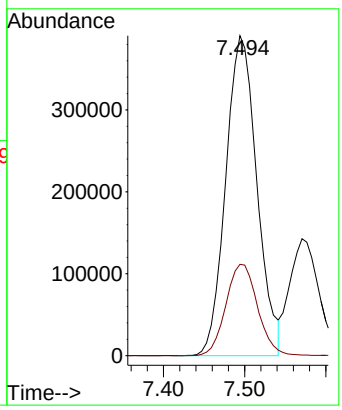


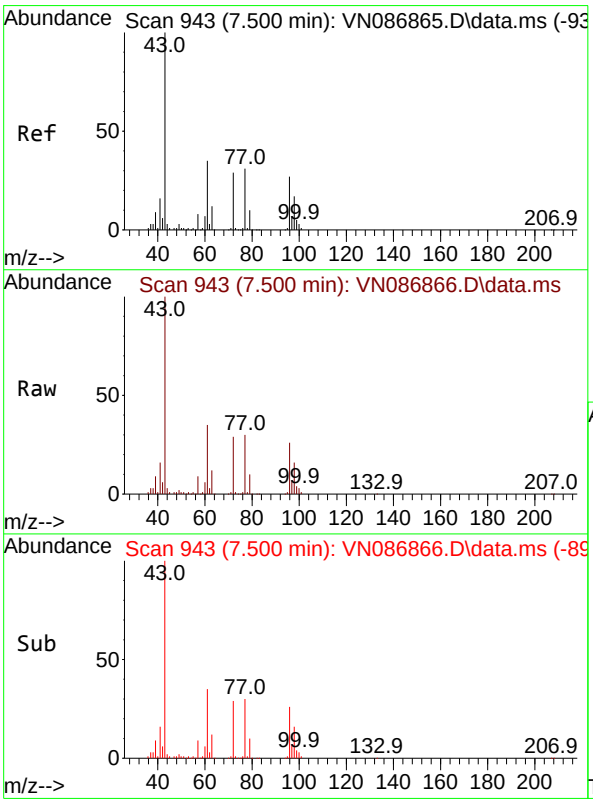
#25
2-Butanone
Concen: 496.743 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1043385

Ion	Ratio	Lower	Upper
43	100		
72	28.5	23.0	34.6

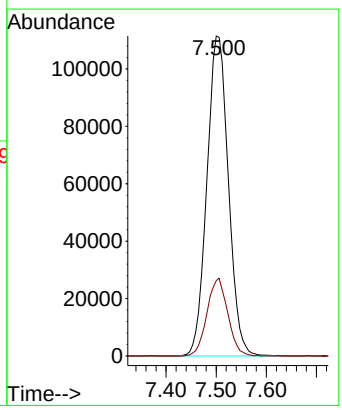


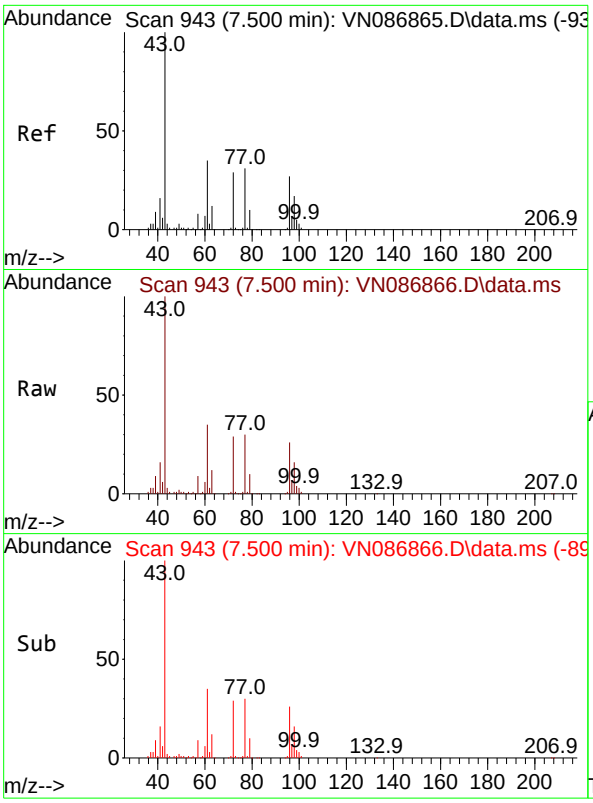


#26
2,2-Dichloropropane
Concen: 104.729 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 77 Resp: 331995

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.7



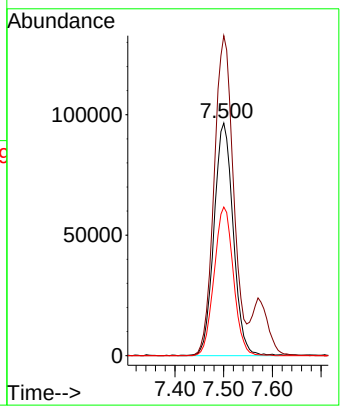


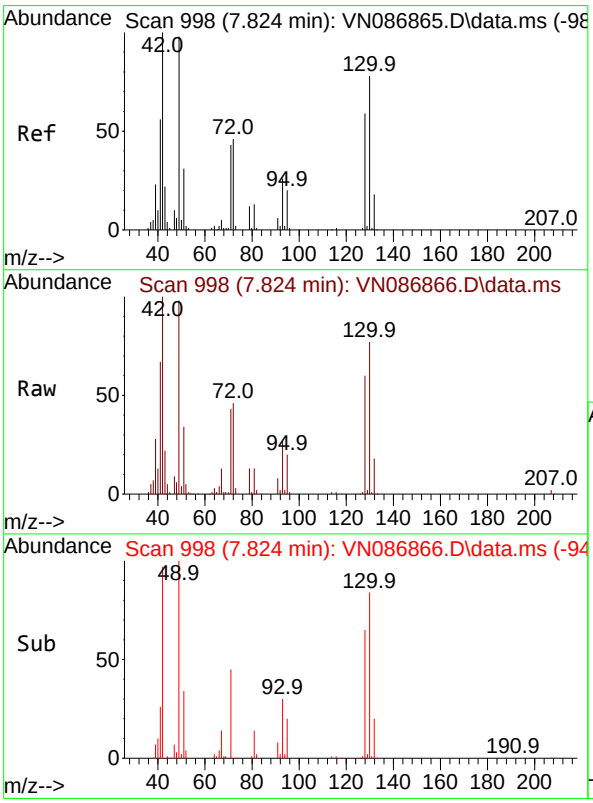
#27
cis-1,2-Dichloroethene
Concen: 98.410 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 265248

Ion	Ratio	Lower	Upper
96	100		
61	137.9	0.0	278.0
98	64.0	0.0	128.2

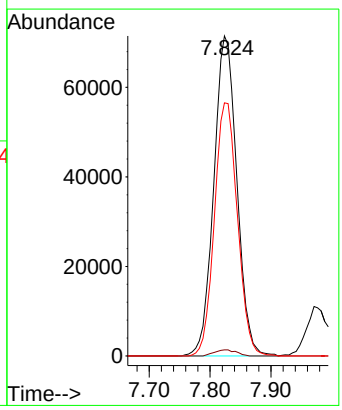


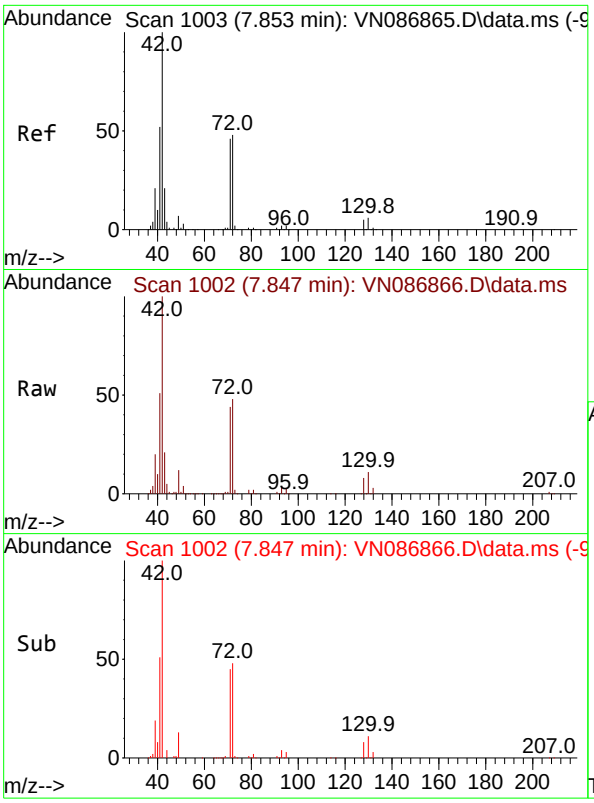


#28
Bromochloromethane
Concen: 93.851 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 49 Resp: 188050

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	78.9	62.2	93.2



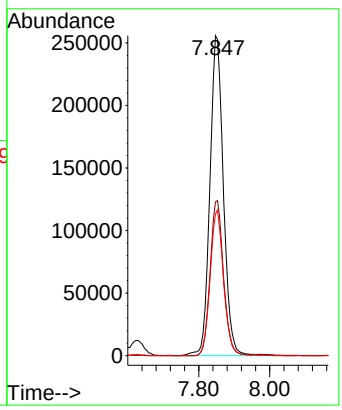


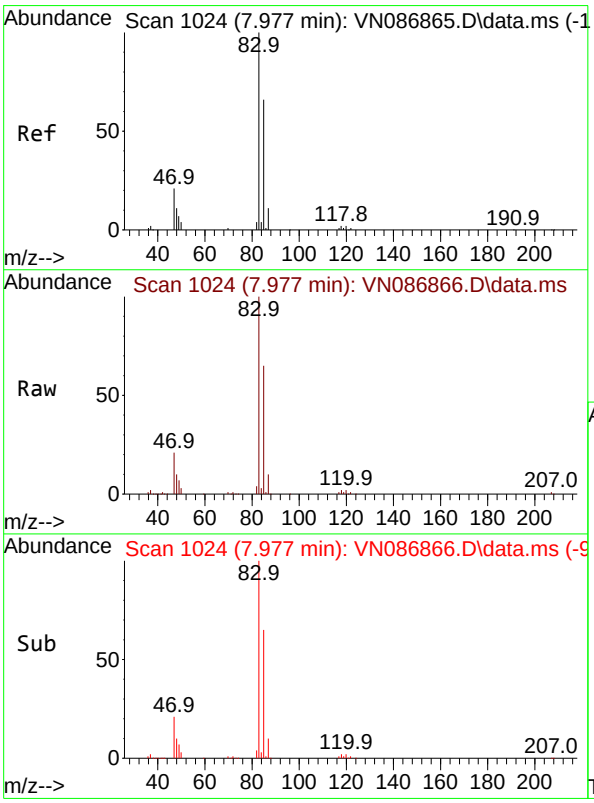
#29
Tetrahydrofuran
Concen: 495.240 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 42 Resp: 677636

Ion	Ratio	Lower	Upper
42	100		
72	47.9	37.8	56.6
71	44.8	35.6	53.4

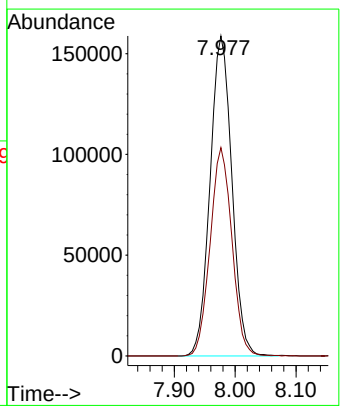


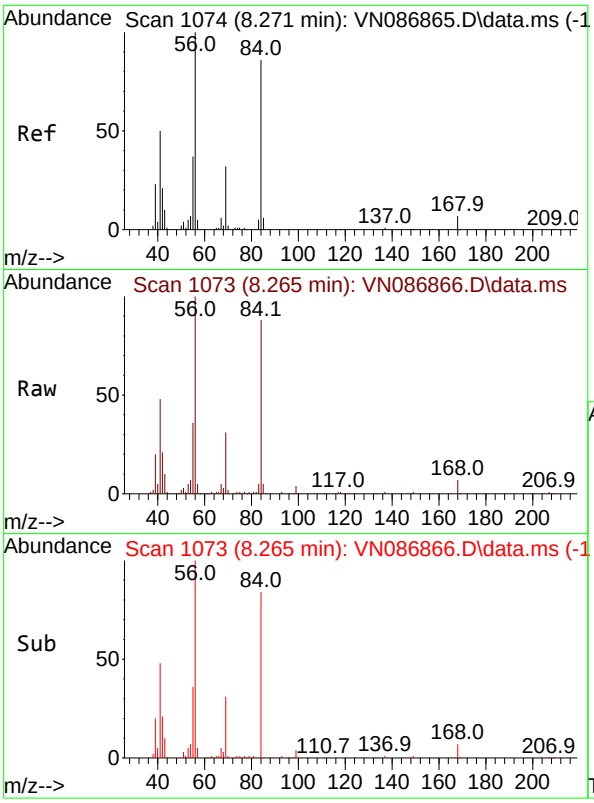


#30
Chloroform
Concen: 97.040 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 83 Resp: 394927

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.9	79.3



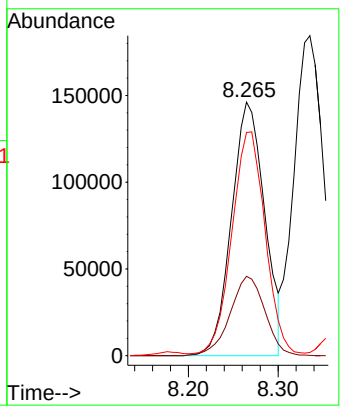


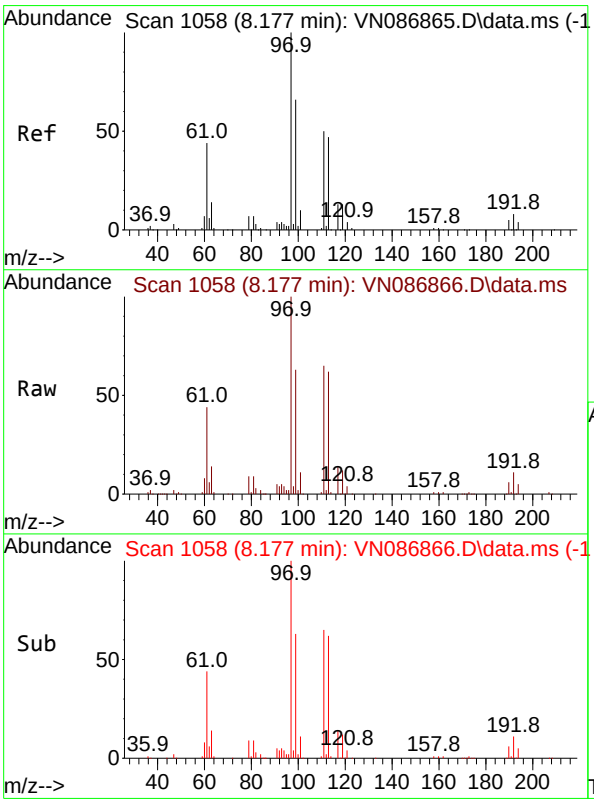
#31
Cyclohexane
Concen: 94.869 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 374933

Ion	Ratio	Lower	Upper
56	100		
69	31.3	25.4	38.0
84	86.8	68.8	103.2

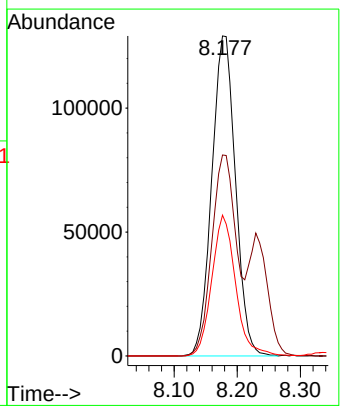


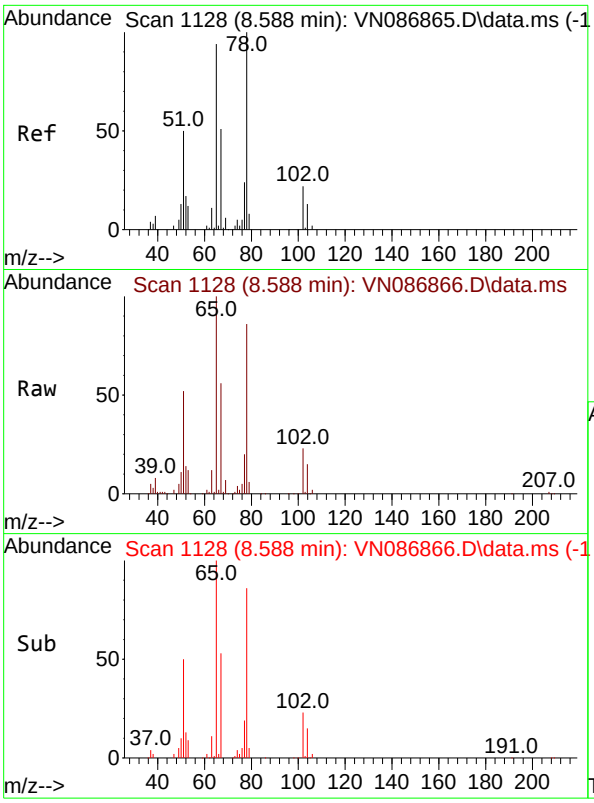


#32
1,1,1-Trichloroethane
Concen: 97.306 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 97 Resp: 336819

Ion	Ratio	Lower	Upper
97	100		
99	65.7	52.0	78.0
61	44.2	35.9	53.9



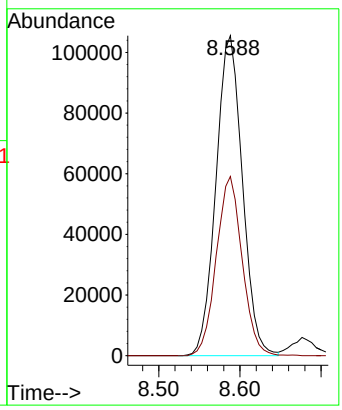


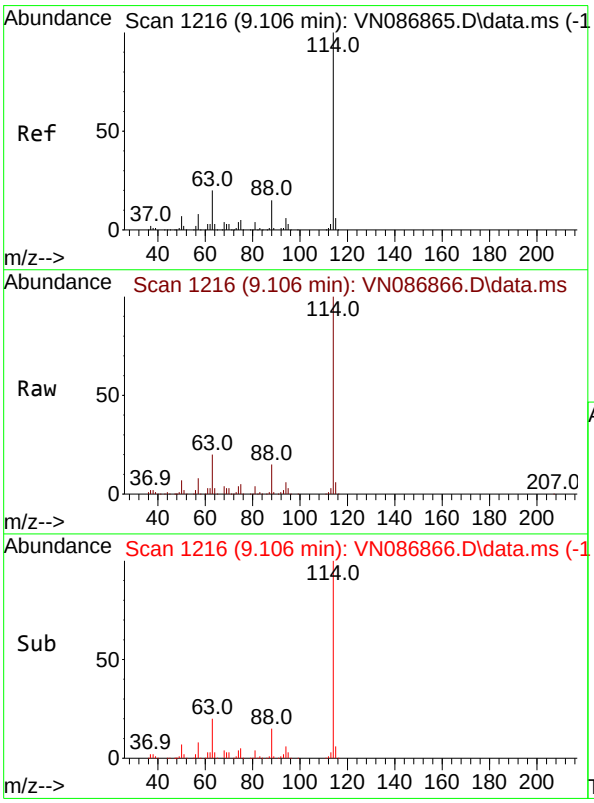
#33
1,2-Dichloroethane-d4
Concen: 98.065 ug/l
RT: 8.588 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 238957

Ion	Ratio	Lower	Upper
65	100		
67	54.8	0.0	105.6

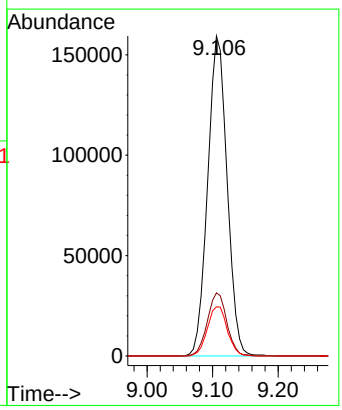


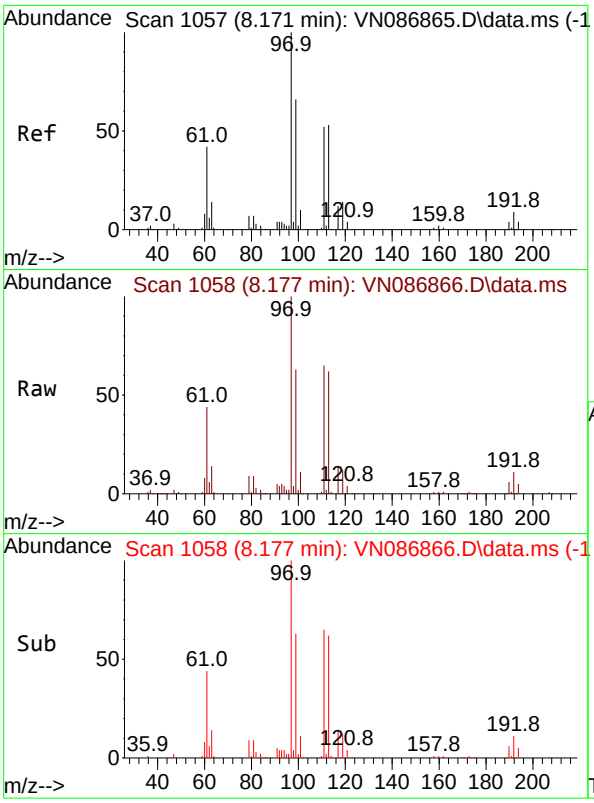


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:114 Resp: 327782

Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	39.6
88	15.4	0.0	30.2



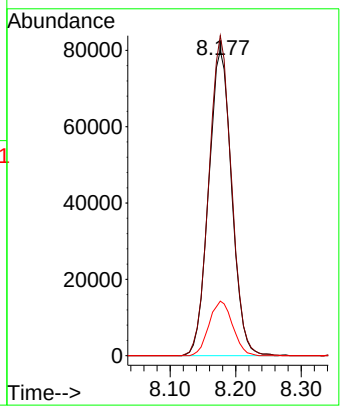


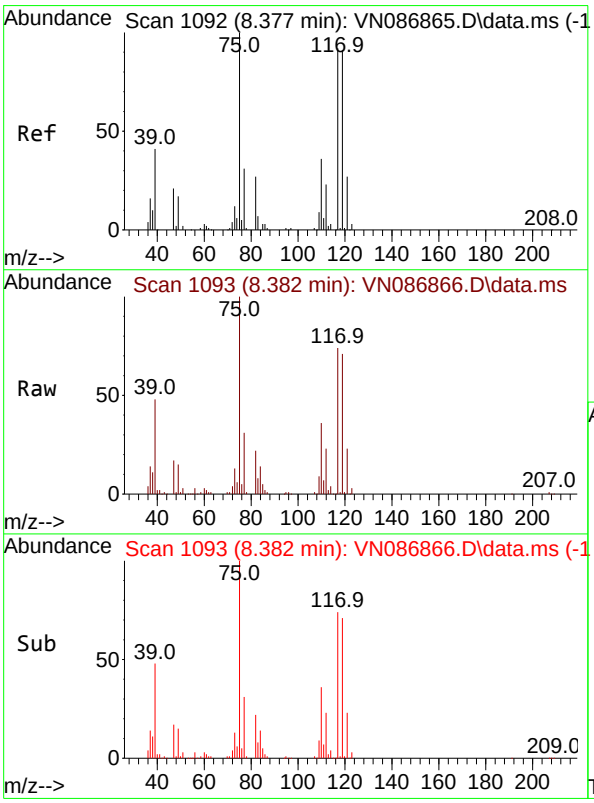
#35
Dibromofluoromethane
Concen: 100.495 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:113 Resp: 195212

Ion	Ratio	Lower	Upper
113	100		
111	102.9	84.2	126.2
192	18.2	14.2	21.4

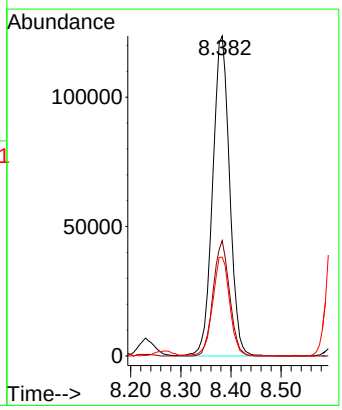


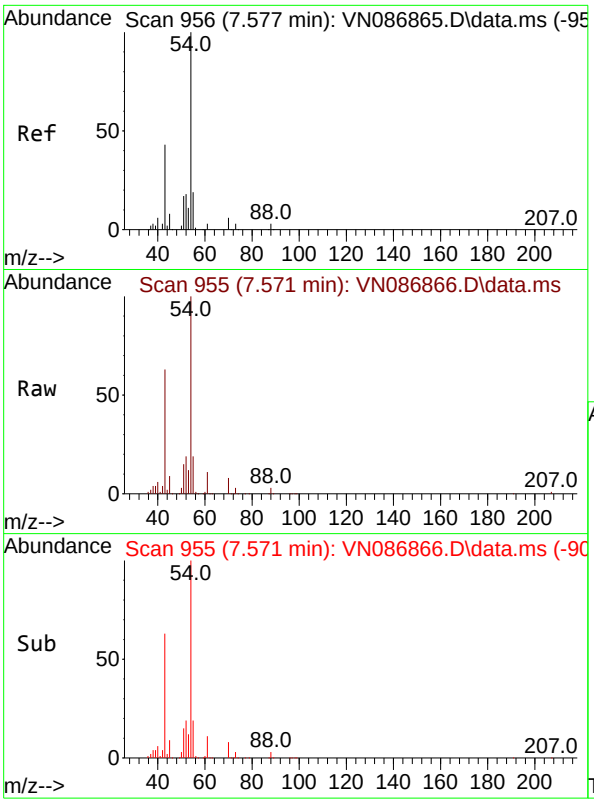


#36
1,1-Dichloropropene
Concen: 100.156 ug/l
RT: 8.382 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 75 Resp: 289907

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.6	52.9
77	31.1	25.3	37.9



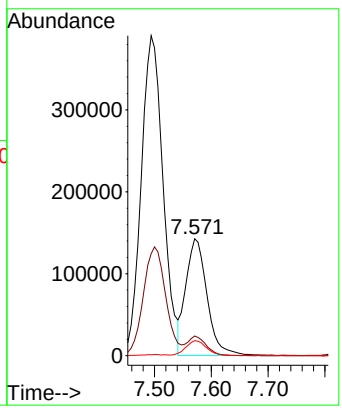


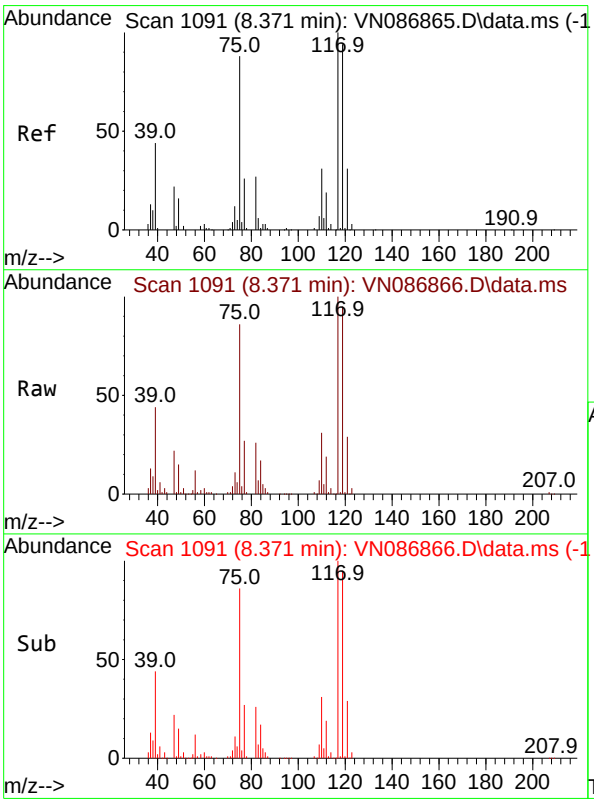
#37
Ethyl Acetate
Concen: 100.591 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 370652

Ion	Ratio	Lower	Upper
43	100		
61	15.3	12.1	18.1
70	12.6	9.8	14.6

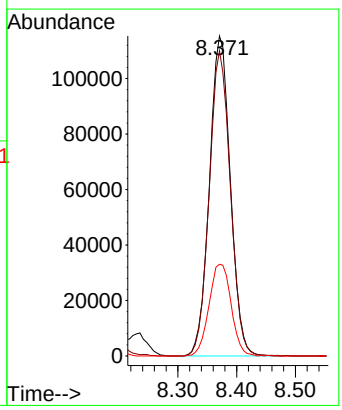


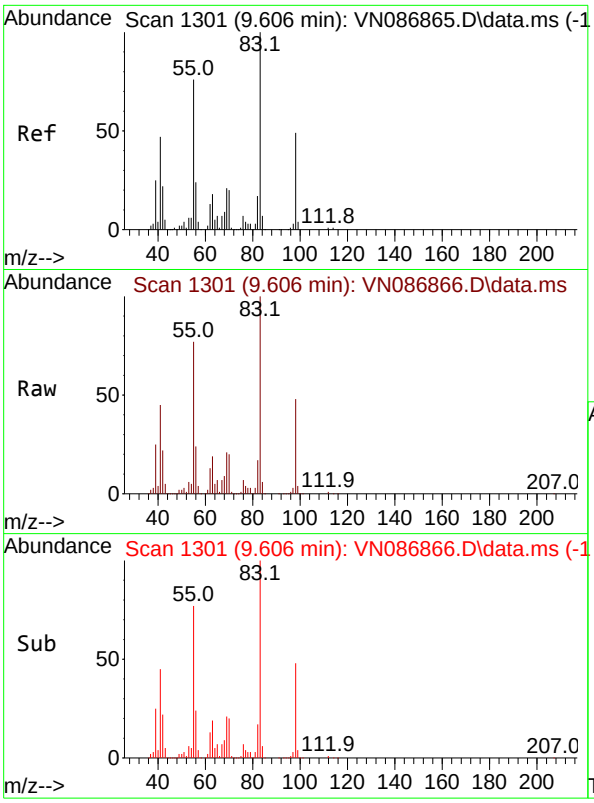


#38
Carbon Tetrachloride
Concen: 100.404 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:117 Resp: 285325

Ion	Ratio	Lower	Upper
117	100		
119	95.4	75.0	112.6
121	28.6	24.9	37.3



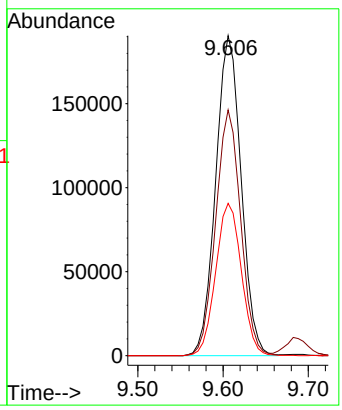


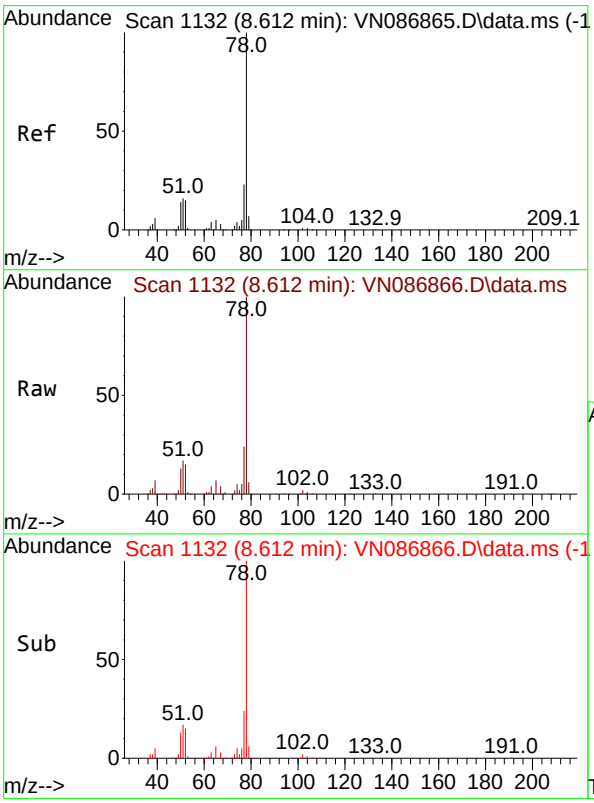
#39
Methylcyclohexane
Concen: 99.758 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 395603

Ion	Ratio	Lower	Upper
83	100		
55	76.8	61.0	91.6
98	47.6	38.9	58.3

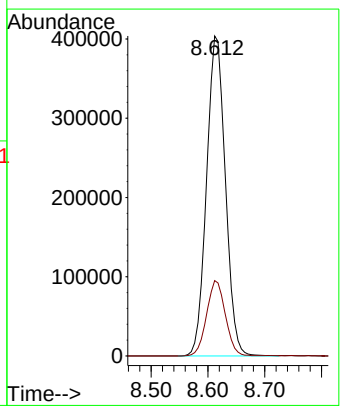


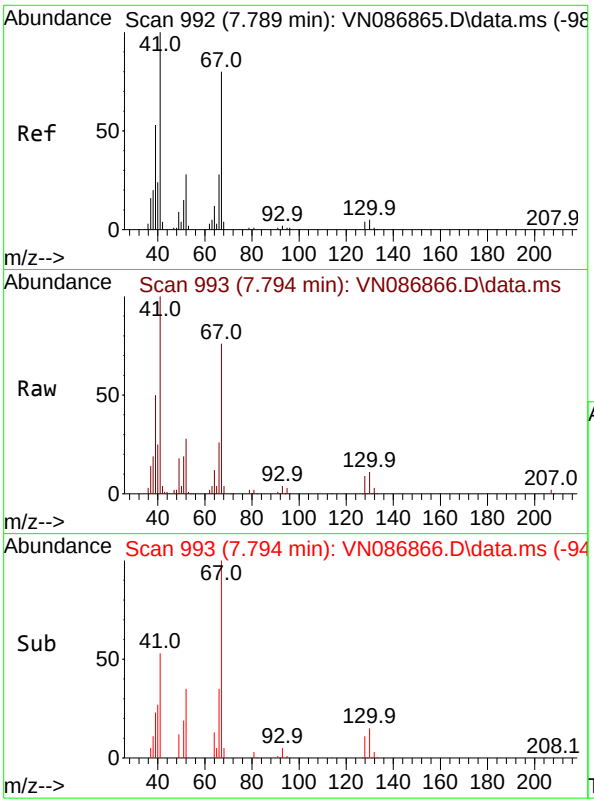


#40
Benzene
Concen: 97.946 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 78 Resp: 927083

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.7	28.1



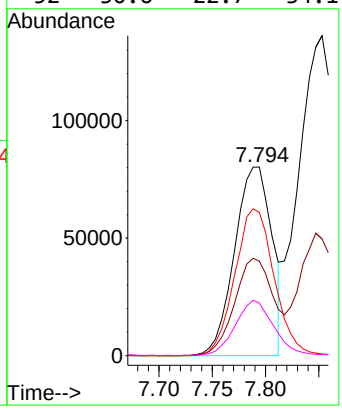


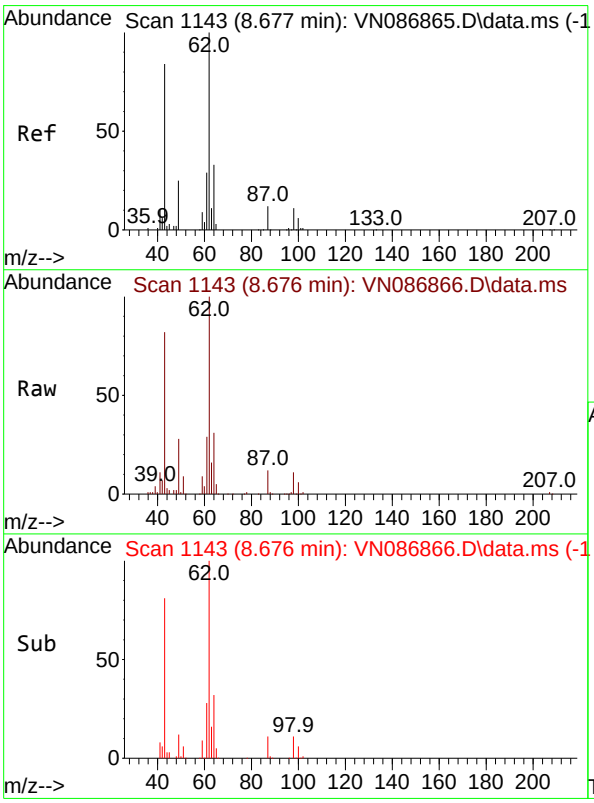
#41
Methacrylonitrile
Concen: 94.688 ug/l
RT: 7.794 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 195946

Ion	Ratio	Lower	Upper
41	100		
39	54.3	41.2	61.8
67	82.5	61.4	92.2
52	30.6	22.7	34.1

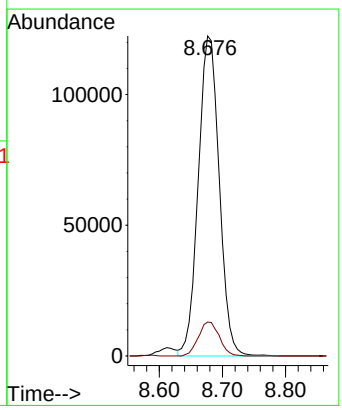


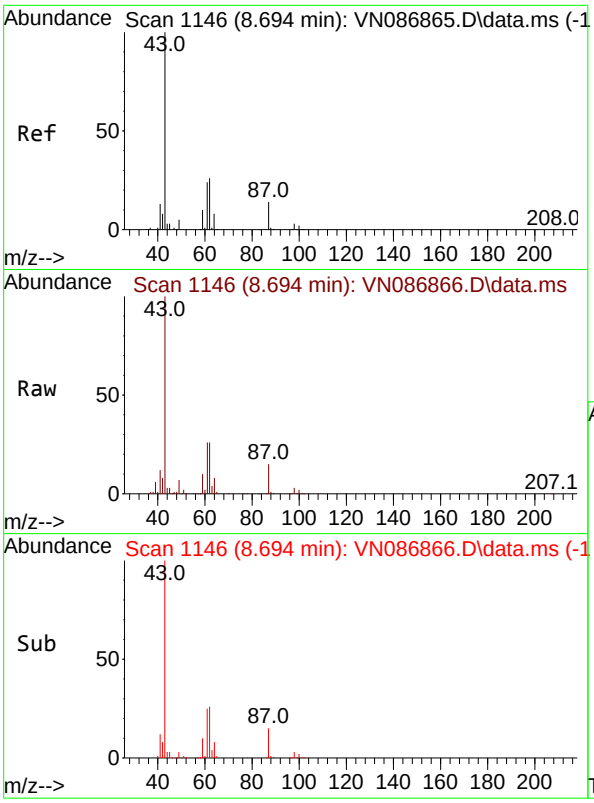


#42
1,2-Dichloroethane
Concen: 98.232 ug/l
RT: 8.676 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 62 Resp: 282015

Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	21.2



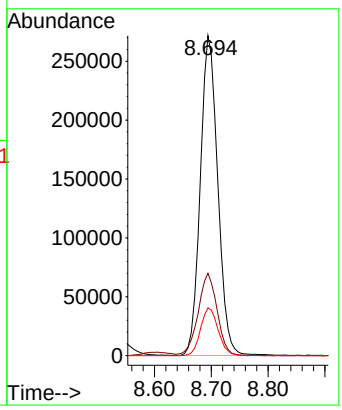


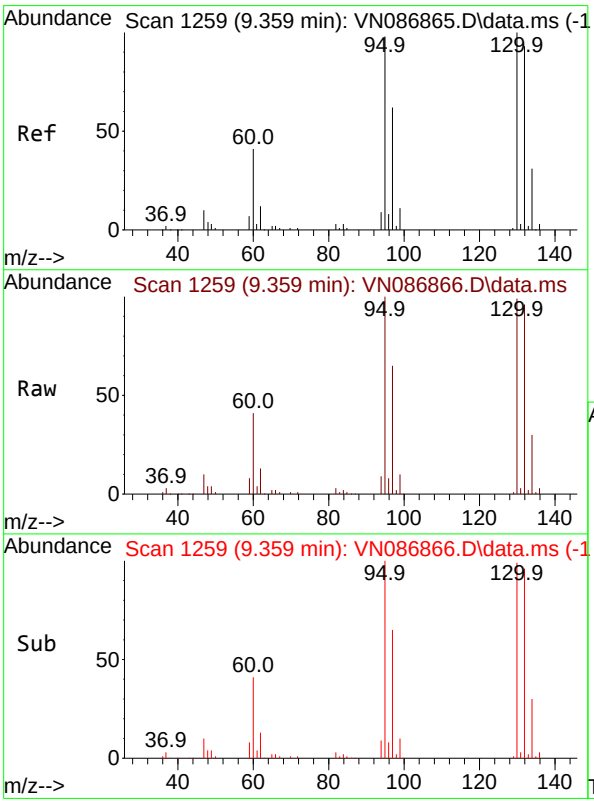
#43
Isopropyl Acetate
Concen: 97.981 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 579464

Ion	Ratio	Lower	Upper
43	100		
61	28.1	22.1	33.1
87	15.0	11.8	17.6

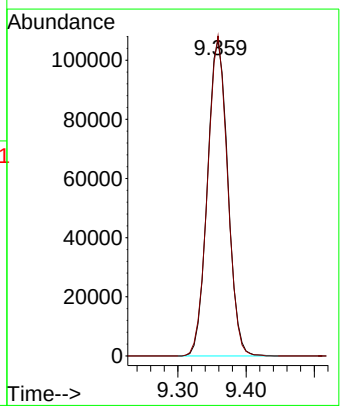


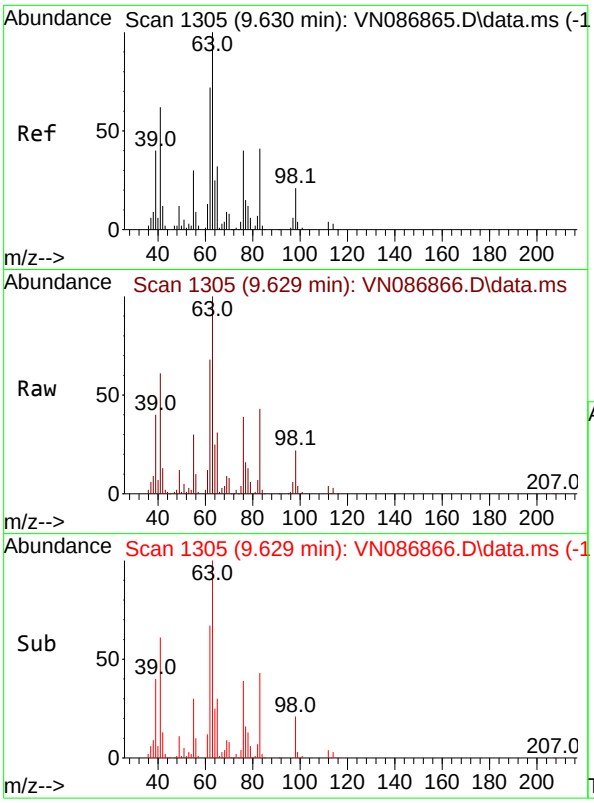


#44
Trichloroethene
Concen: 99.280 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:130 Resp: 222822

Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	196.2



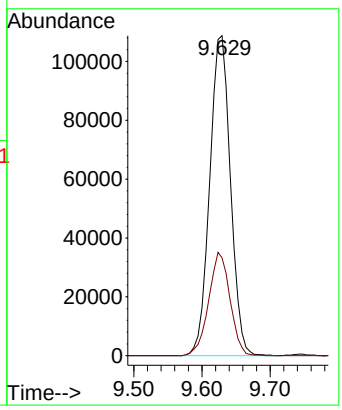


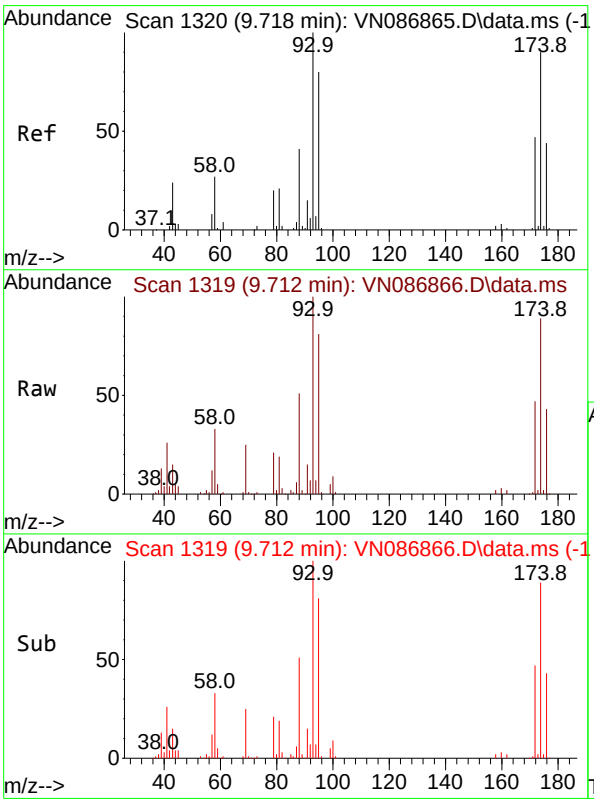
#45
1,2-Dichloropropane
Concen: 100.077 ug/l
RT: 9.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 63 Resp: 230454

Ion	Ratio	Lower	Upper
63	100		
65	30.6	25.5	38.3

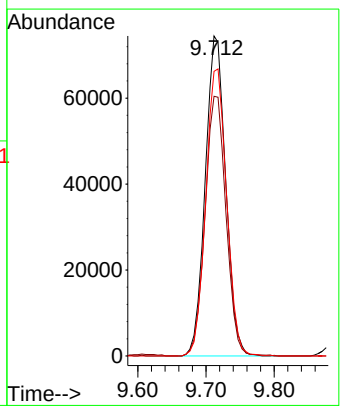


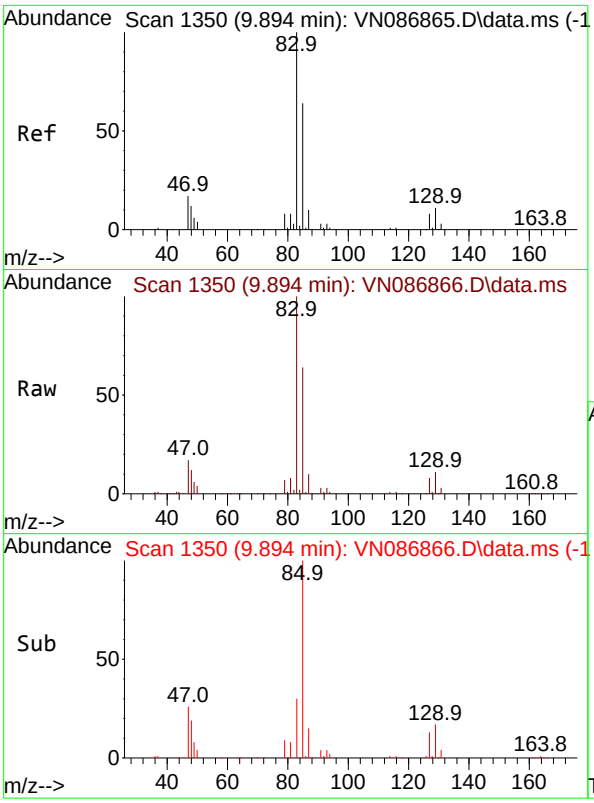


#46
Dibromomethane
Concen: 101.685 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 93 Resp: 155530

Ion	Ratio	Lower	Upper
93	100		
95	82.9	67.1	100.7
174	91.6	74.2	111.4



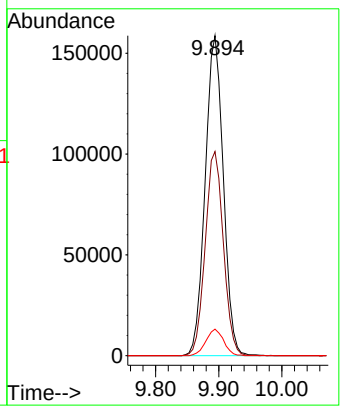


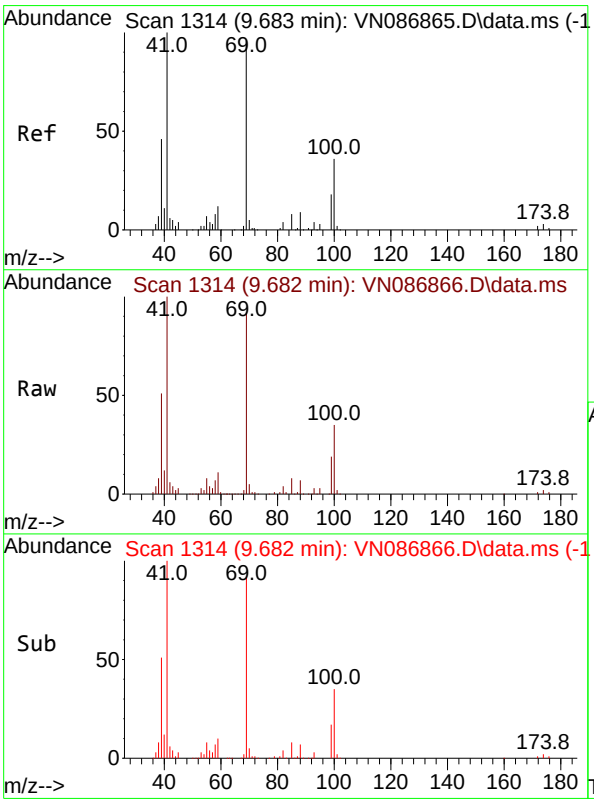
#47
Bromodichloromethane
Concen: 100.533 ug/l
RT: 9.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 316375

Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.9	76.3
127	8.3	6.6	10.0

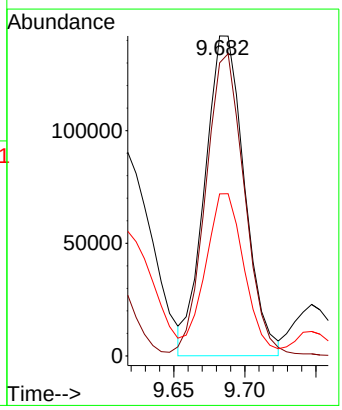


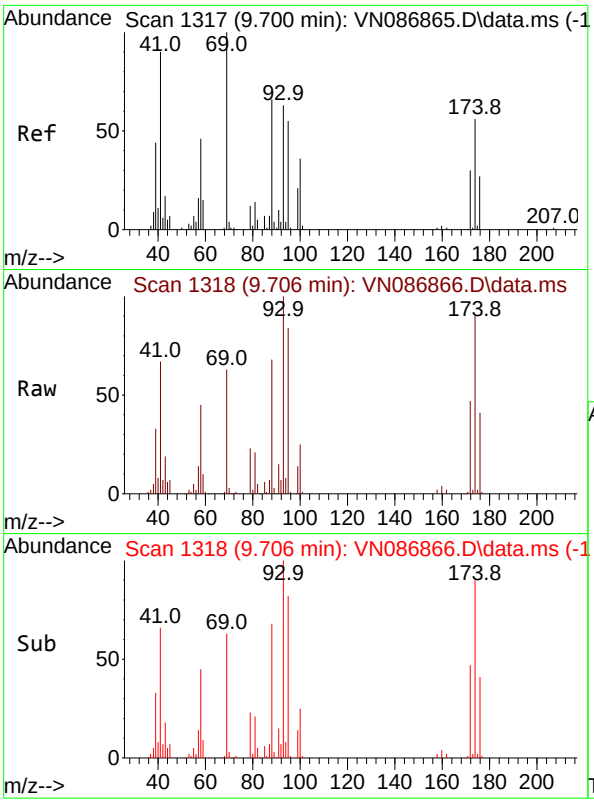


#48
Methyl methacrylate
Concen: 101.288 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 41 Resp: 275710

Ion	Ratio	Lower	Upper
41	100		
69	92.4	74.6	112.0
39	50.1	40.2	60.4



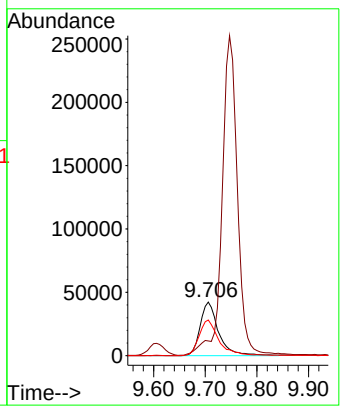


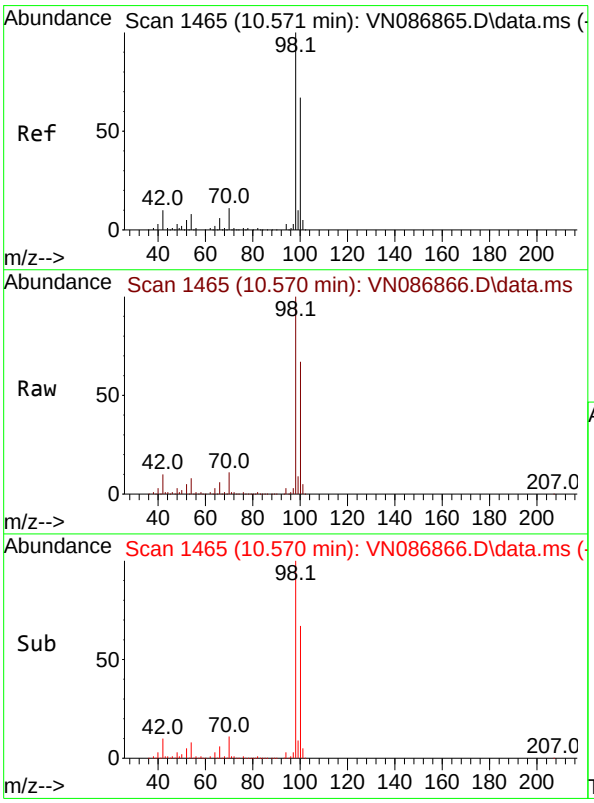
#49
1,4-Dioxane
Concen: 2115.744 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 88 Resp: 104771

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	71.5	57.7	86.5

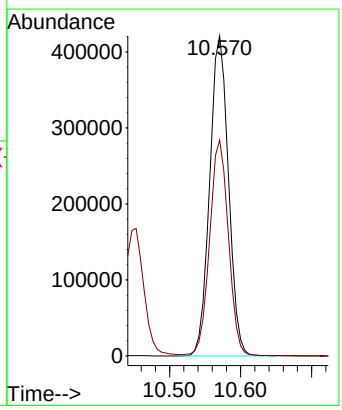


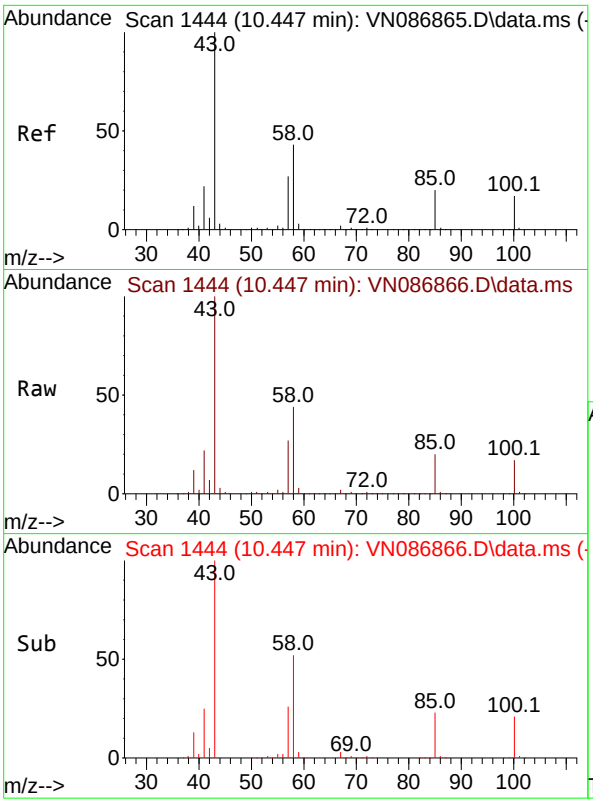


#50
Toluene-d8
Concen: 100.419 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 98 Resp: 772210

Ion	Ratio	Lower	Upper
98	100		
100	67.6	53.4	80.0



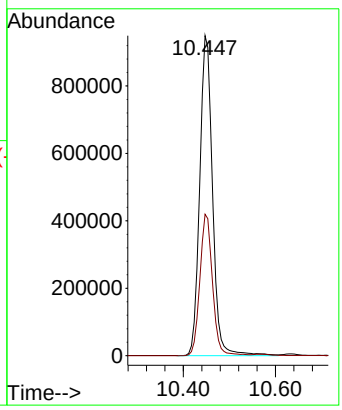


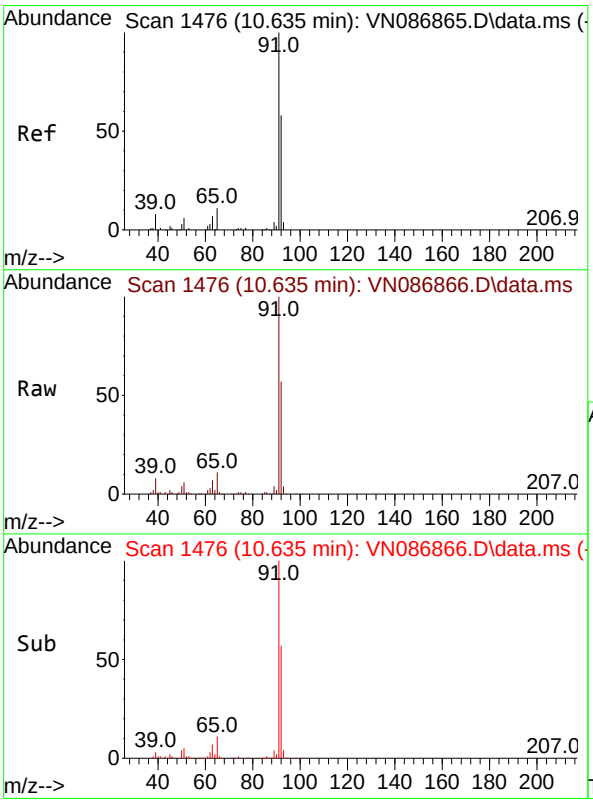
#51
4-Methyl-2-Pentanone
Concen: 517.729 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1843274

Ion	Ratio	Lower	Upper
43	100		
58	43.6	34.2	51.4

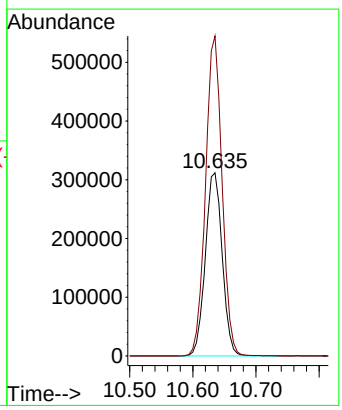


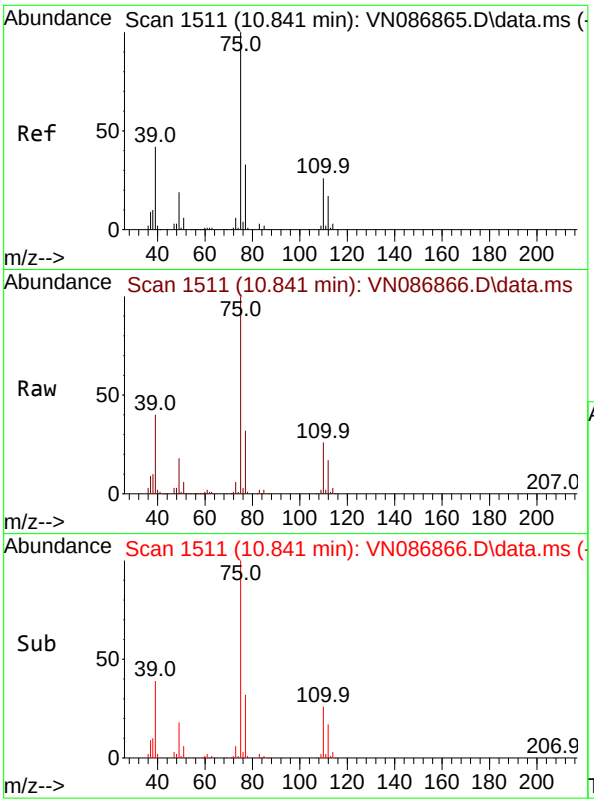


#52
Toluene
Concen: 100.092 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 92 Resp: 578978

Ion	Ratio	Lower	Upper
92	100		
91	170.6	136.5	204.7



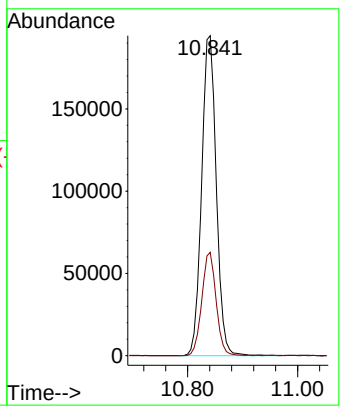


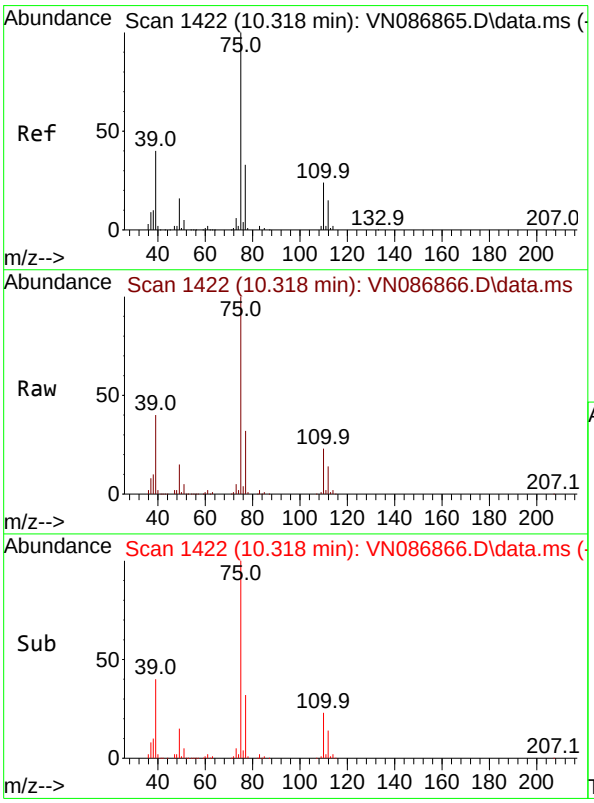
#53
t-1,3-Dichloropropene
Concen: 102.077 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 359200

Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.4	39.6

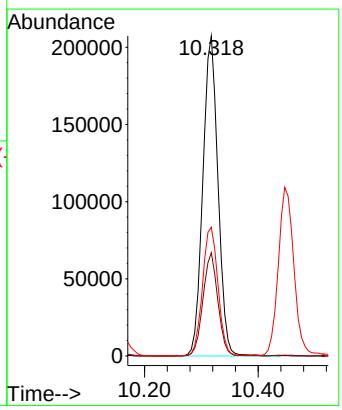


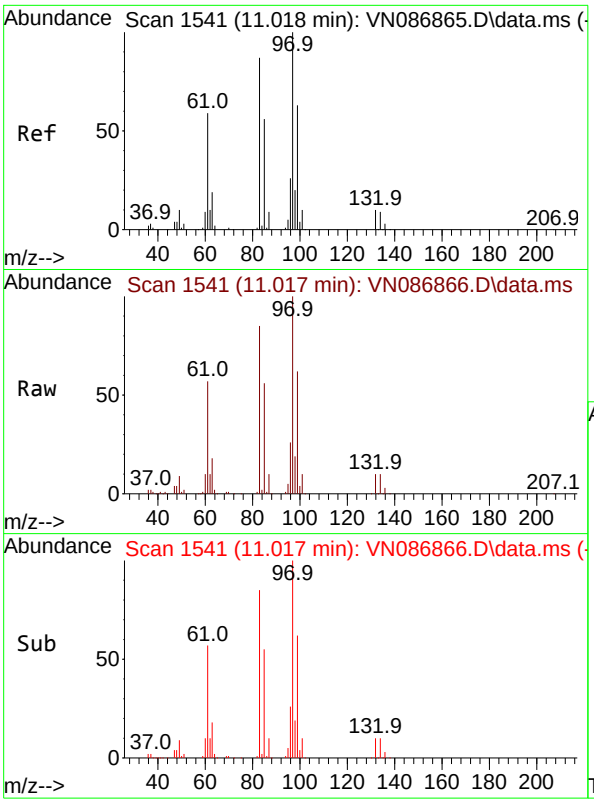


#54
cis-1,3-Dichloropropene
Concen: 101.730 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 75 Resp: 383030

Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.2	39.4
39	40.1	32.3	48.5



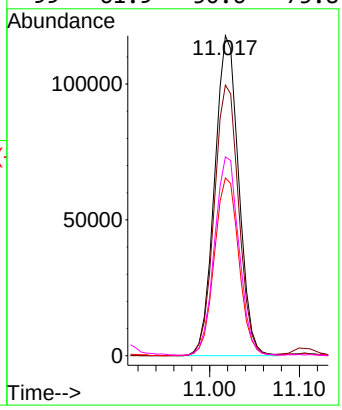


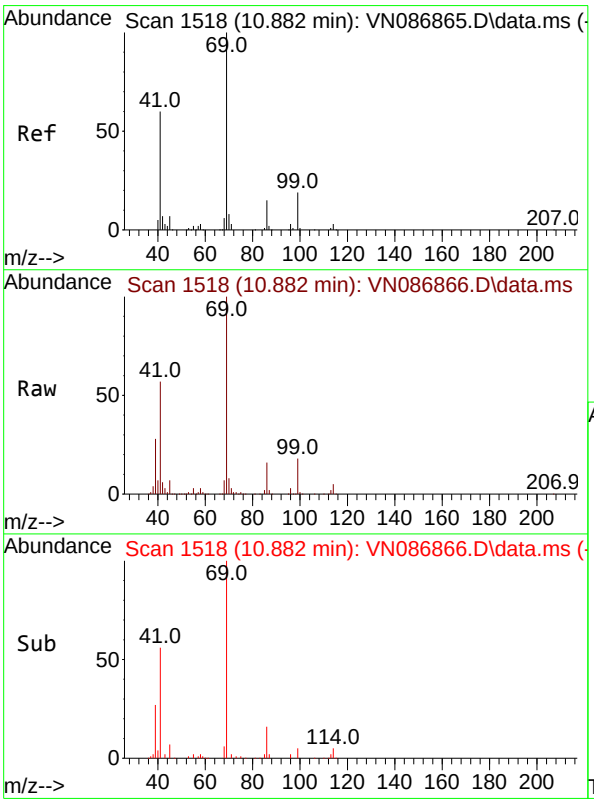
#55
1,1,2-Trichloroethane
Concen: 98.808 ug/l
RT: 11.017 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 97 Resp: 219922

Ion	Ratio	Lower	Upper
97	100		
83	84.5	69.7	104.5
85	55.6	45.1	67.7
99	61.9	50.6	75.8

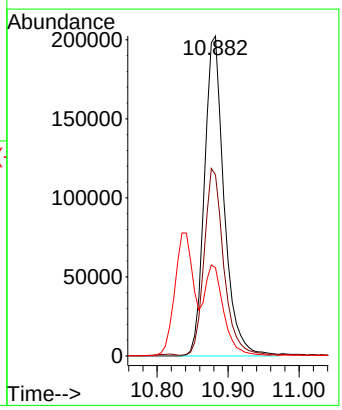


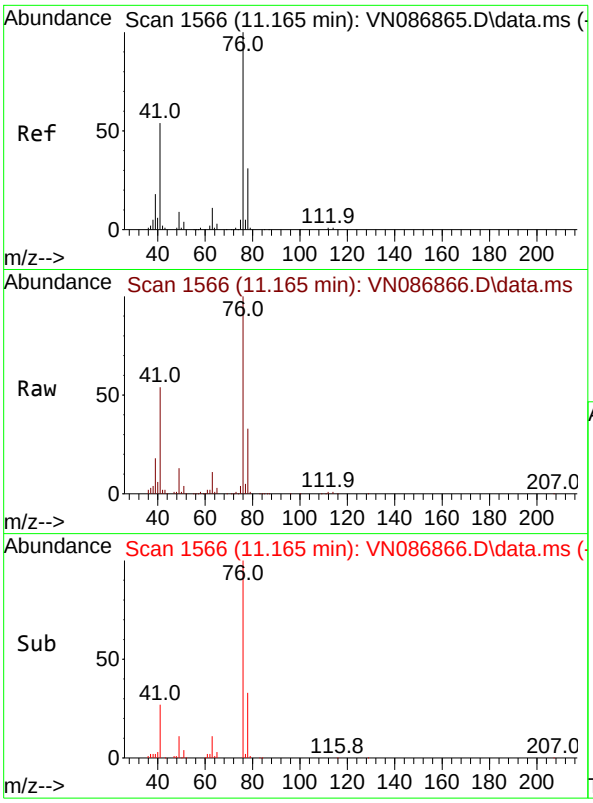


#56
Ethyl methacrylate
Concen: 109.955 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 69 Resp: 389802

Ion	Ratio	Lower	Upper
69	100		
41	58.3	47.2	70.8
39	27.5	23.0	34.6



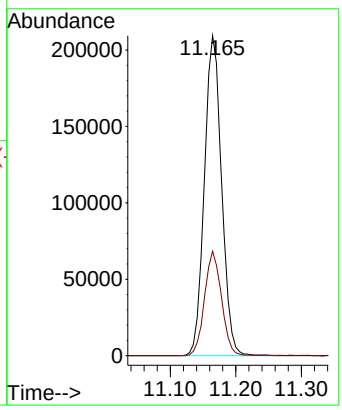


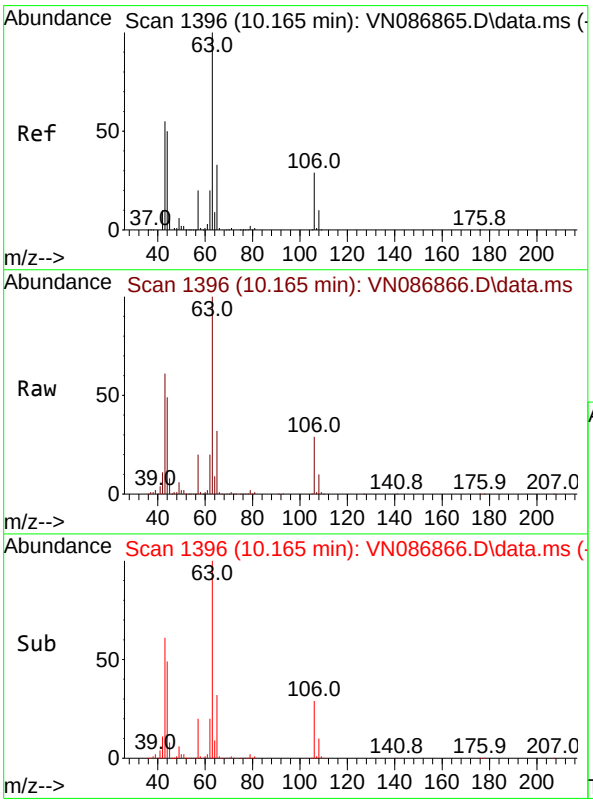
#57
1,3-Dichloropropane
Concen: 99.069 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 382510

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.3	37.9

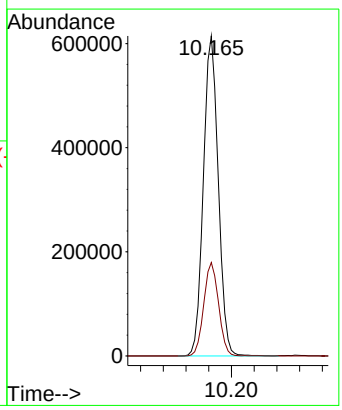


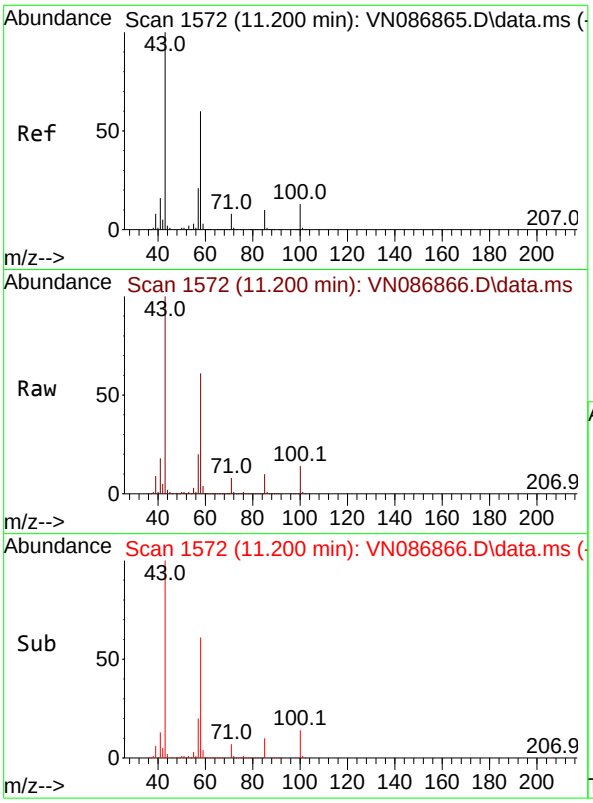


#58
2-Chloroethyl Vinyl ether
Concen: 526.621 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 63 Resp: 1113523

Ion	Ratio	Lower	Upper
63	100		
106	29.1	23.0	34.6



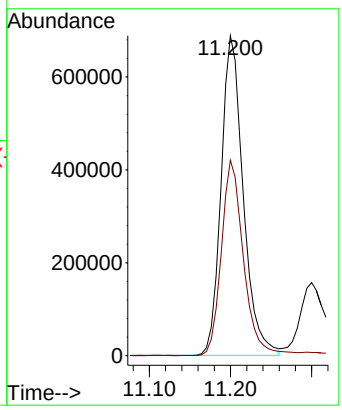


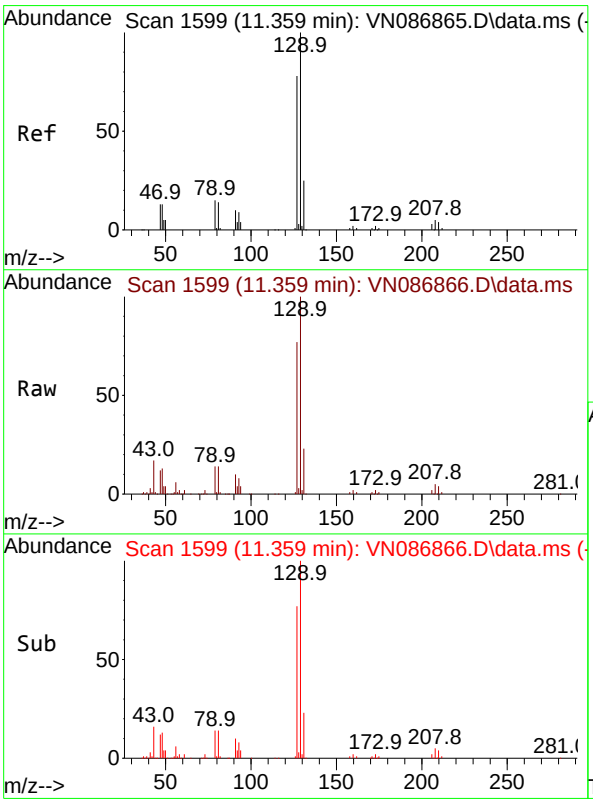
#59
2-Hexanone
Concen: 567.535 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1301539

Ion	Ratio	Lower	Upper
43	100		
58	61.4	30.4	91.3

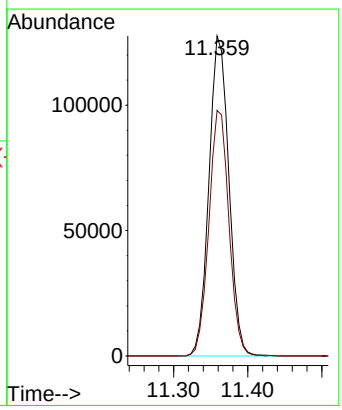


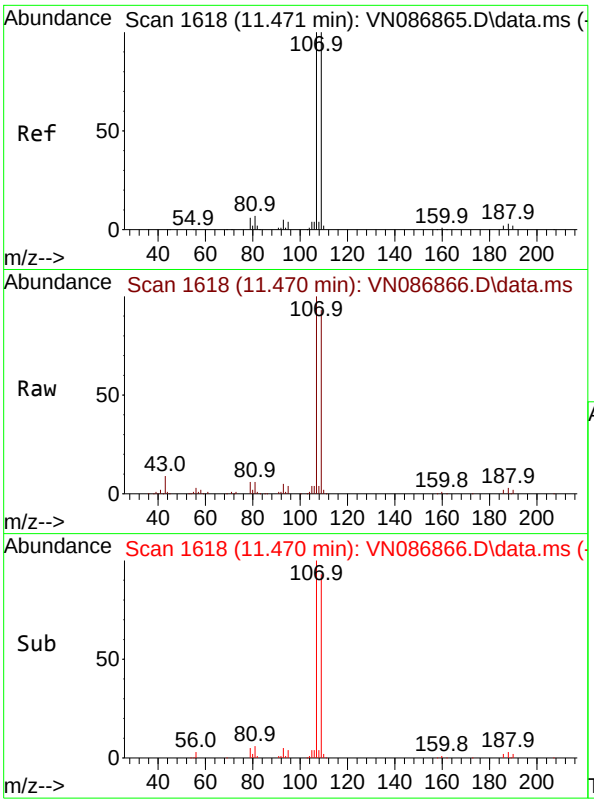


#60
Dibromochloromethane
Concen: 102.616 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:129 Resp: 237965

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.8



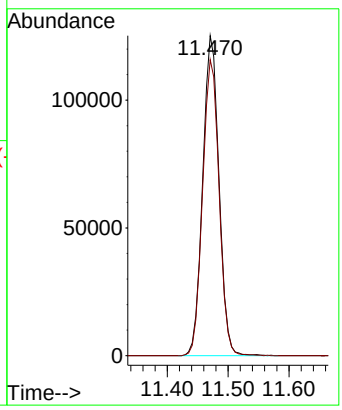


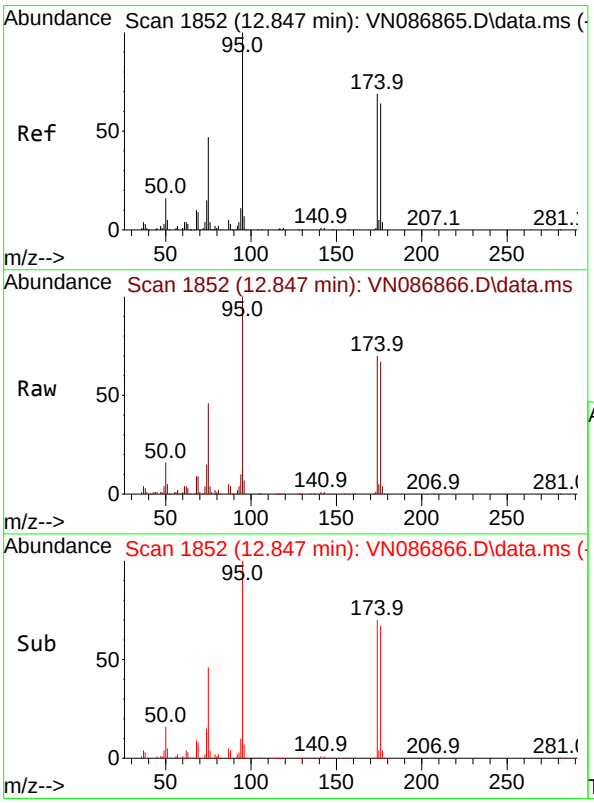
#61
1,2-Dibromoethane
Concen: 101.787 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 232214

Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.3	114.5

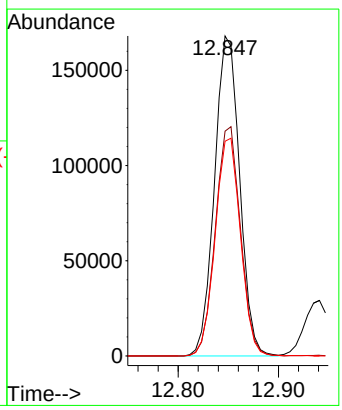


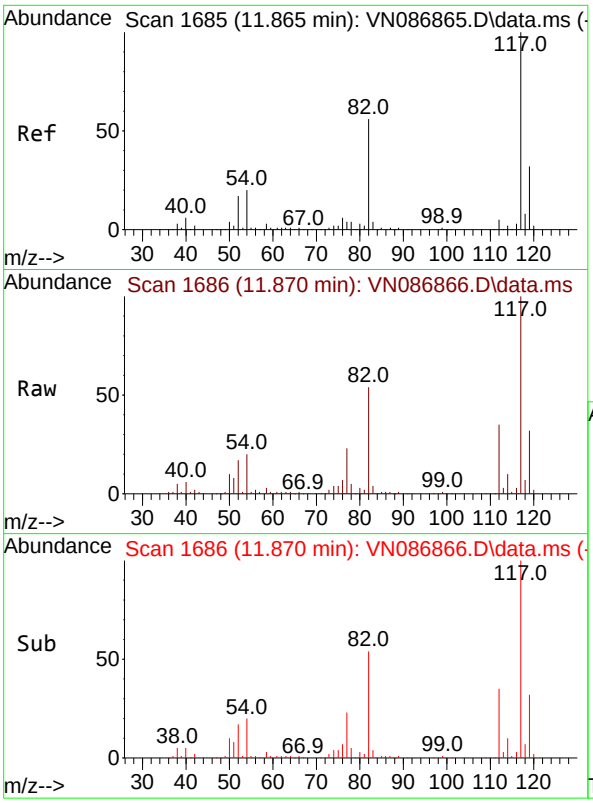


#62
4-Bromofluorobenzene
Concen: 102.339 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 95 Resp: 292385

Ion	Ratio	Lower	Upper
95	100		
174	71.6	0.0	141.8
176	68.6	0.0	132.6



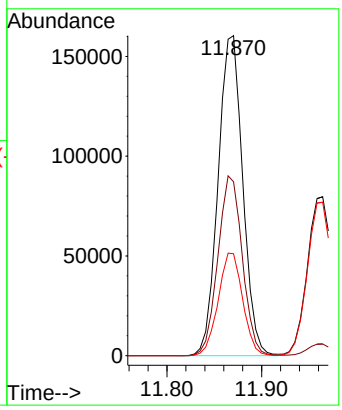


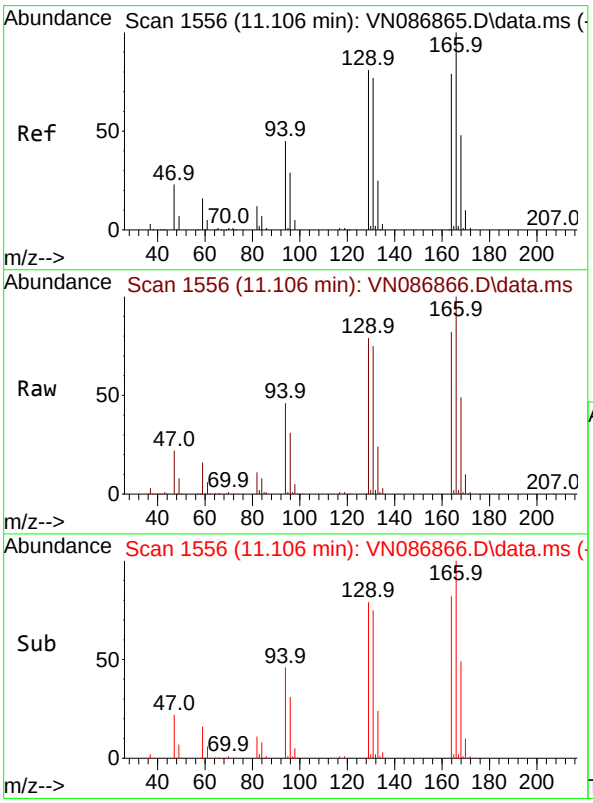
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 290313

Ion	Ratio	Lower	Upper
117	100		
82	54.3	44.6	67.0
119	31.9	25.5	38.3

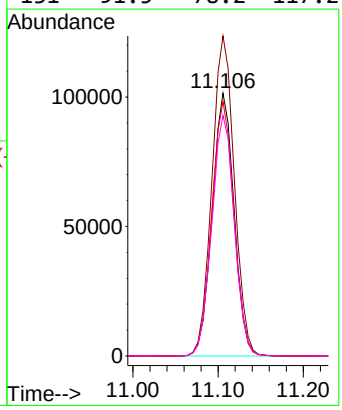


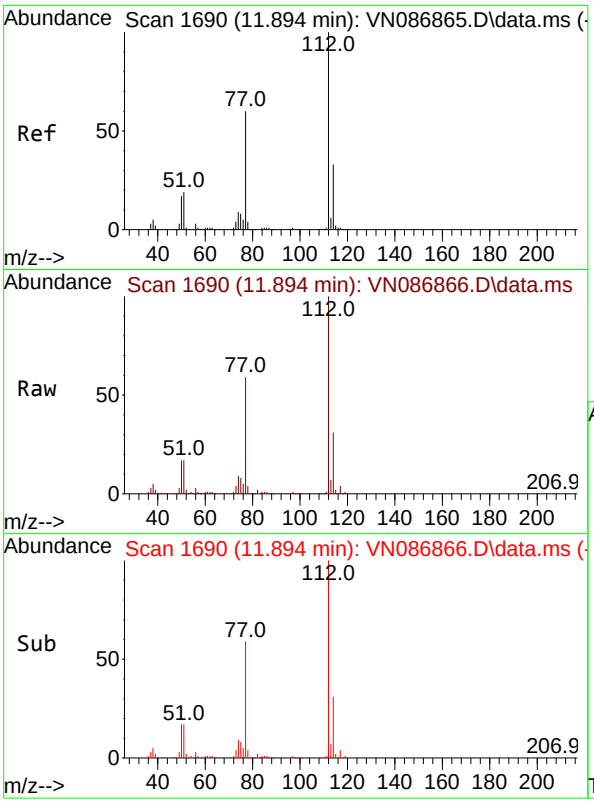


#64
Tetrachloroethene
Concen: 98.824 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:164 Resp: 181568

Ion	Ratio	Lower	Upper
164	100		
166	121.8	101.8	152.8
129	96.8	83.0	124.4
131	91.5	78.2	117.2



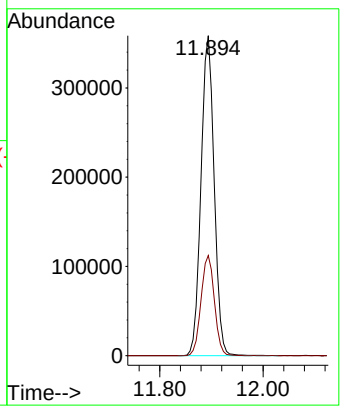


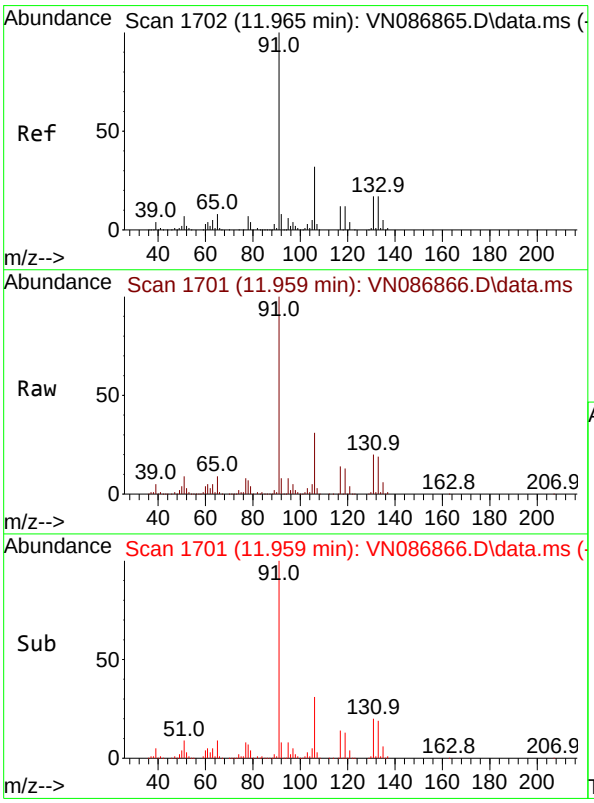
#65
Chlorobenzene
Concen: 98.793 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 632563

Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.2	39.2

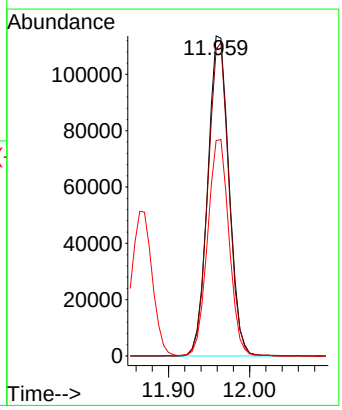


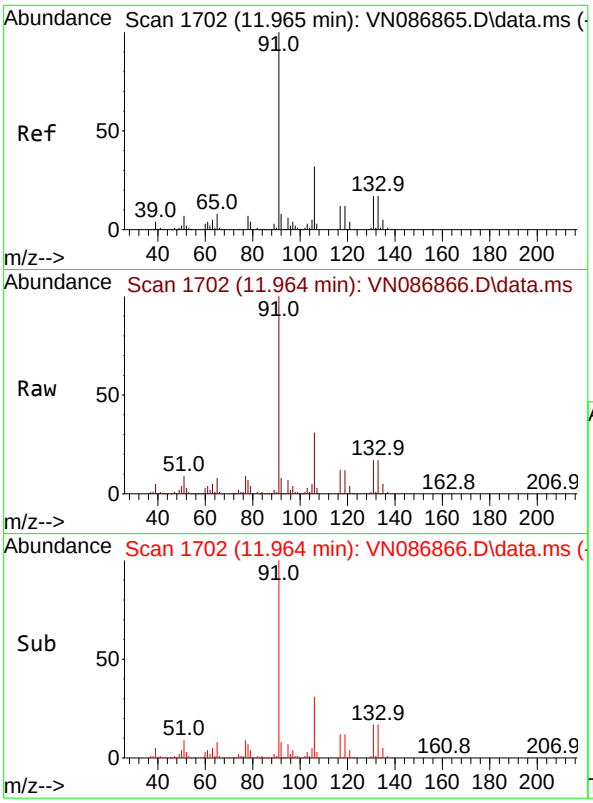


#66
1,1,1,2-Tetrachloroethane
Concen: 100.521 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:131 Resp: 206895

Ion	Ratio	Lower	Upper
131	100		
133	96.4	48.3	144.8
119	68.2	34.0	101.8



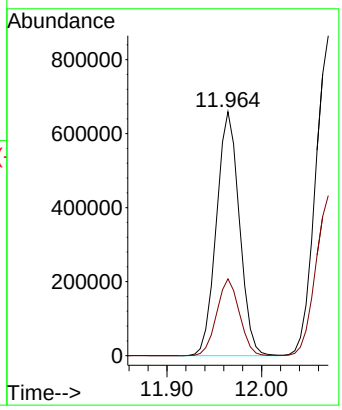


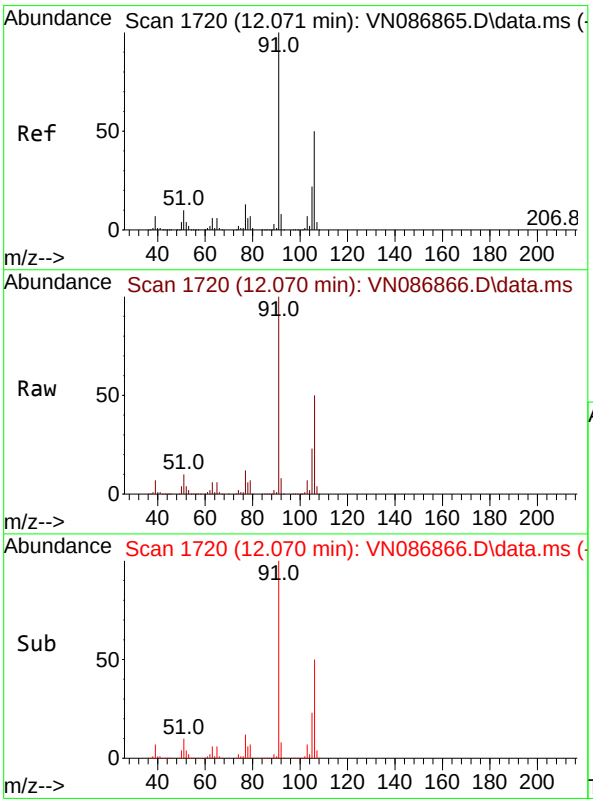
#67
Ethyl Benzene
Concen: 100.717 ug/l
RT: 11.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1110803

Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.4	38.2

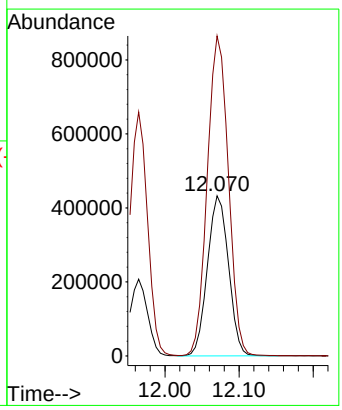


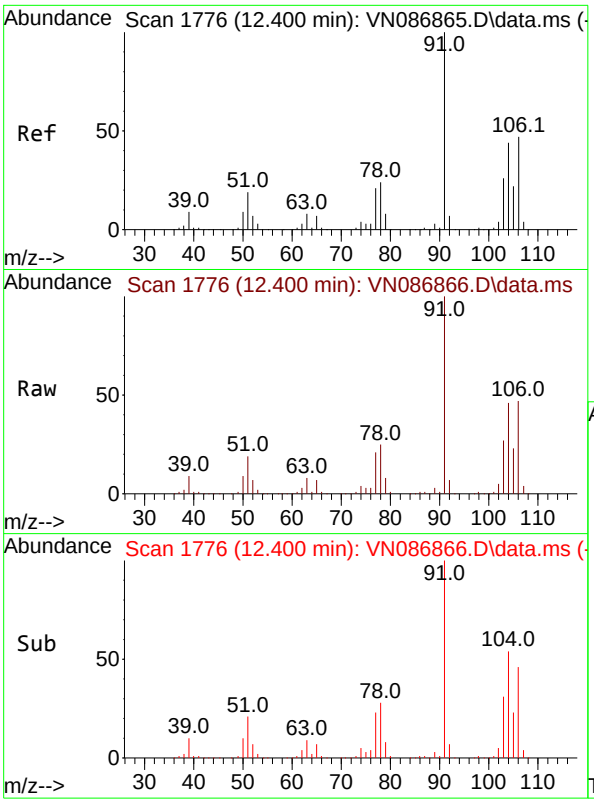


#68
m/p-Xylenes
Concen: 202.411 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:106 Resp: 854557

Ion	Ratio	Lower	Upper
106	100		
91	200.4	159.4	239.0



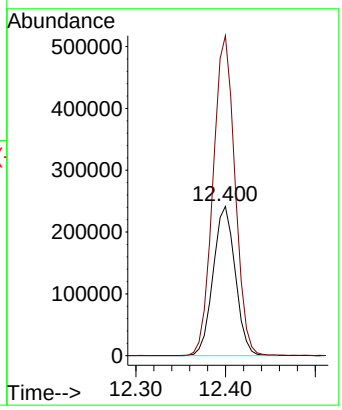


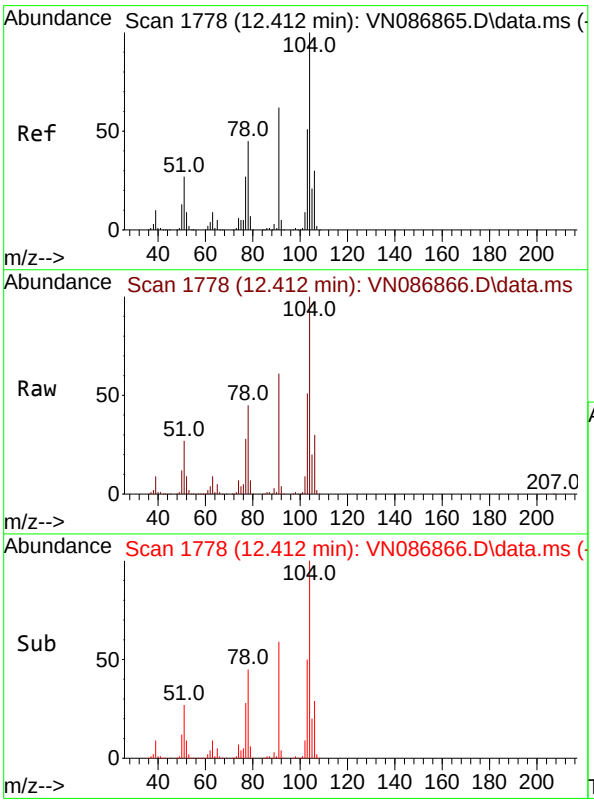
#69
o-Xylene
Concen: 102.070 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 412719

Ion	Ratio	Lower	Upper
106	100		
91	212.8	106.1	318.1

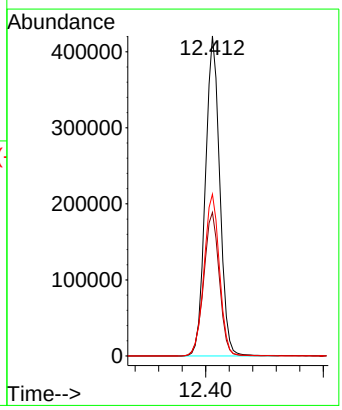


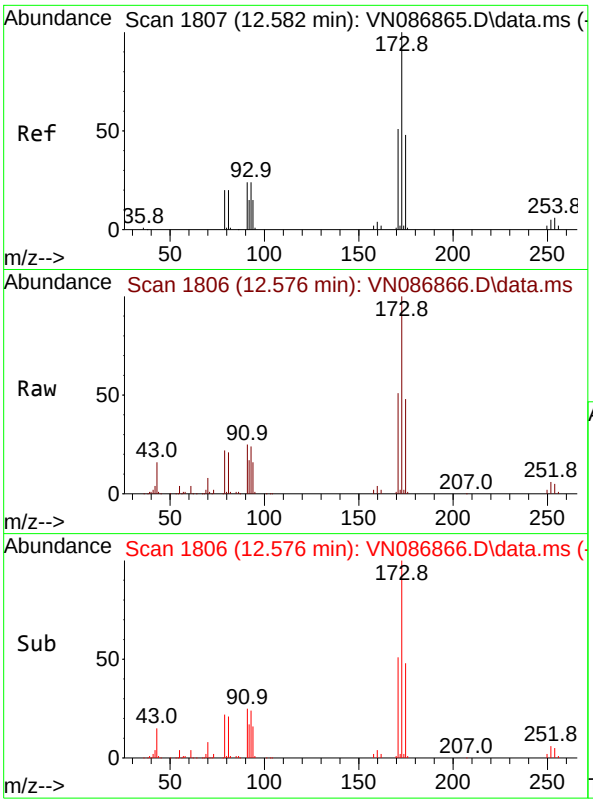


#70
Styrene
Concen: 103.127 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:104 Resp: 713548

Ion	Ratio	Lower	Upper
104	100		
78	48.4	38.5	57.7
103	54.0	43.1	64.7



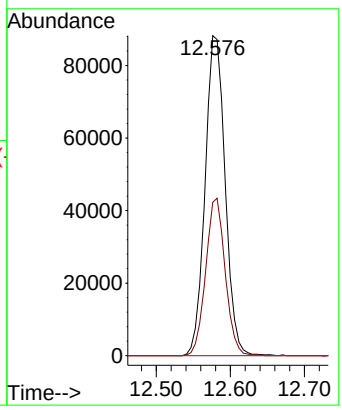


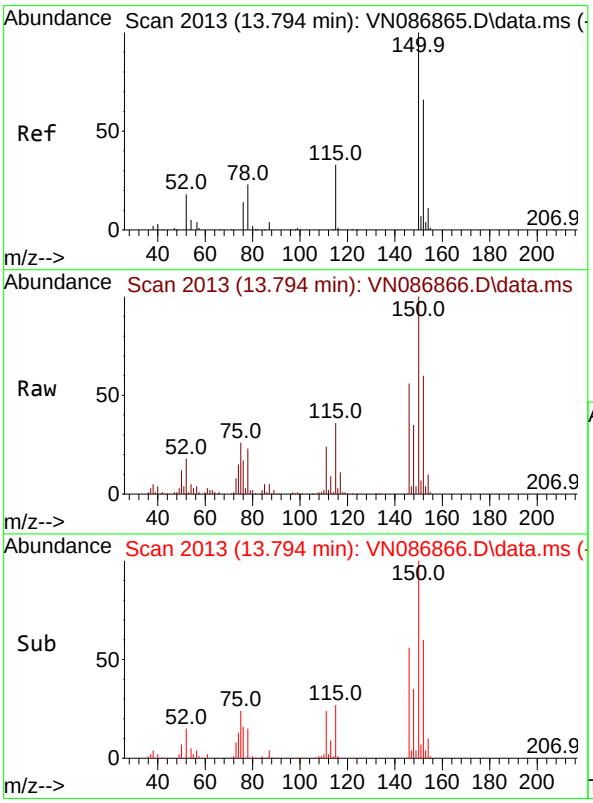
#71
Bromoform
Concen: 108.707 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 165781

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.1	72.4
254	0.0	0.0	0.0

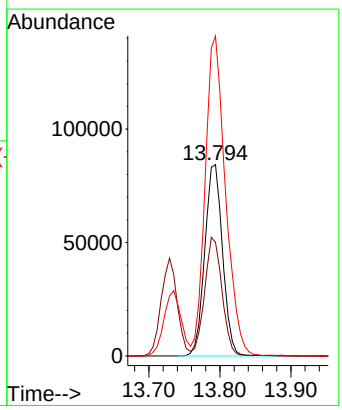


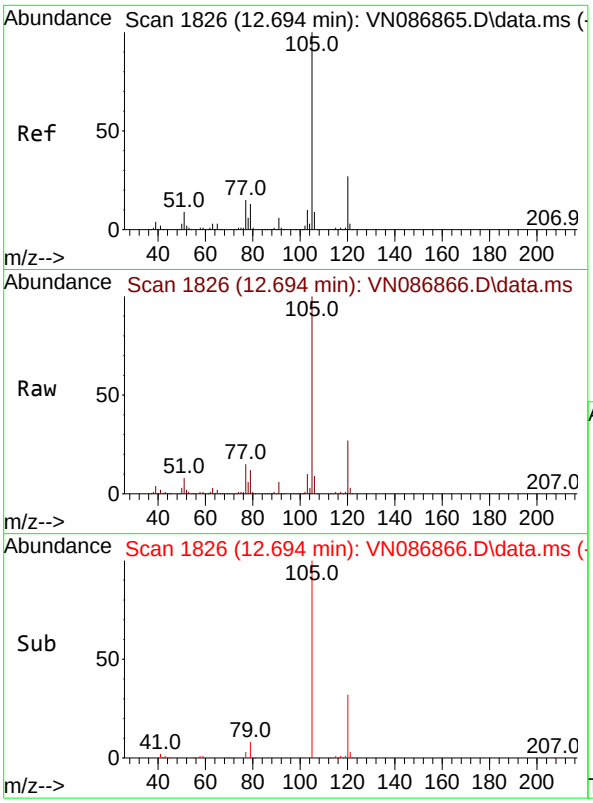


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:152 Resp: 147098

Ion	Ratio	Lower	Upper
152	100		
115	60.1	30.1	90.5
150	190.4	0.0	345.0



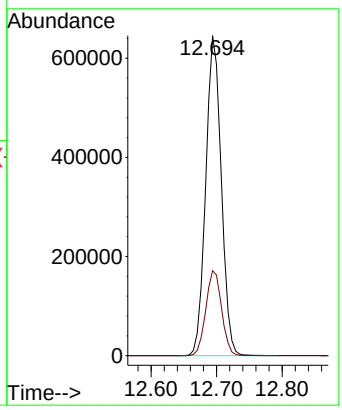


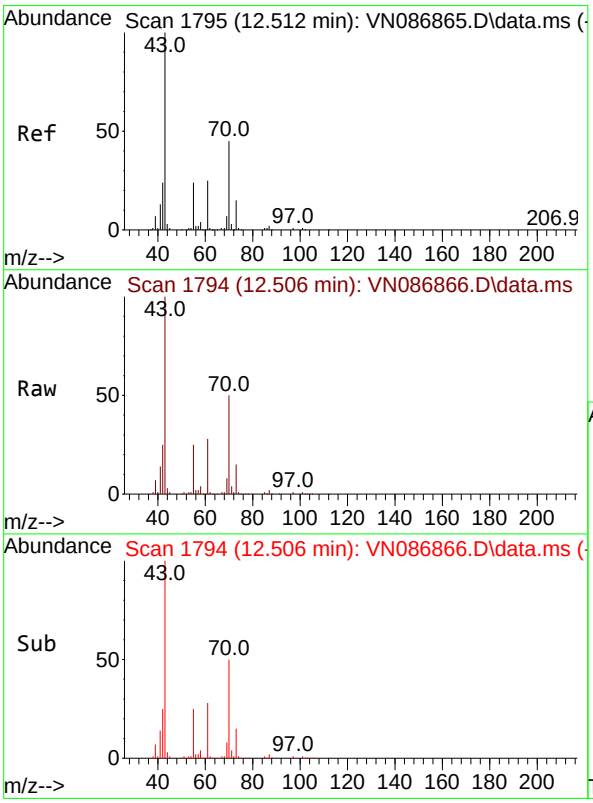
#73
Isopropylbenzene
Concen: 99.410 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1065297

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.5	40.4

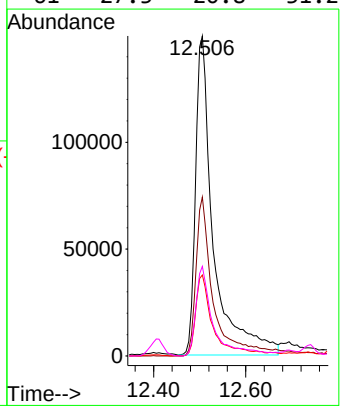


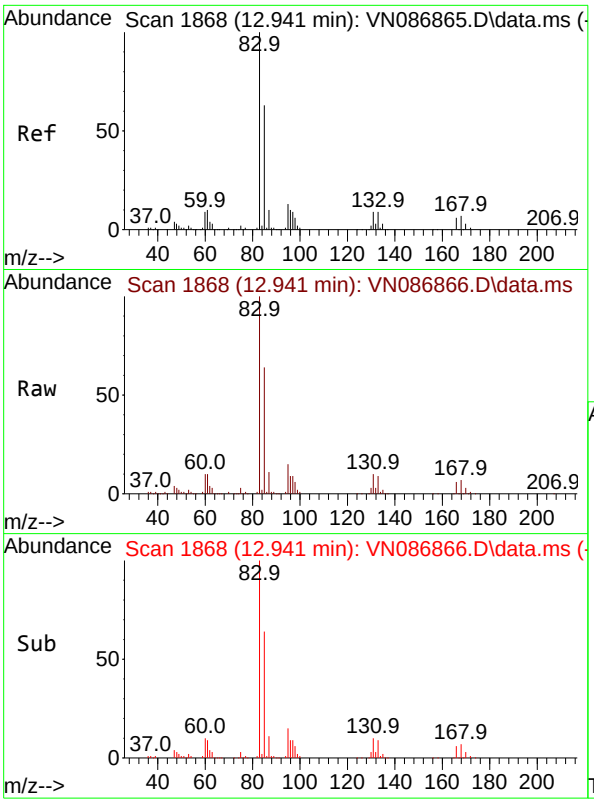


#74
N-amyl acetate
Concen: 113.475 ug/l
RT: 12.506 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 43 Resp: 403587

Ion	Ratio	Lower	Upper
43	100		
70	47.7	37.6	56.4
55	25.0	19.0	28.6
61	27.3	20.8	31.2



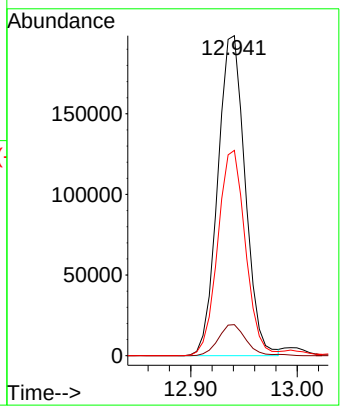


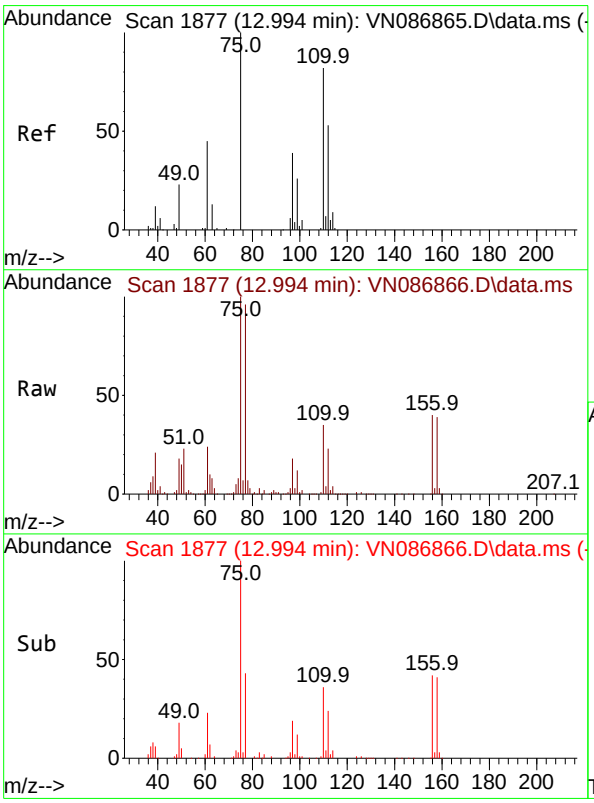
#75
1,1,2,2-Tetrachloroethane
Concen: 97.616 ug/l
RT: 12.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 354386

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.9	14.7
85	64.9	32.0	96.0

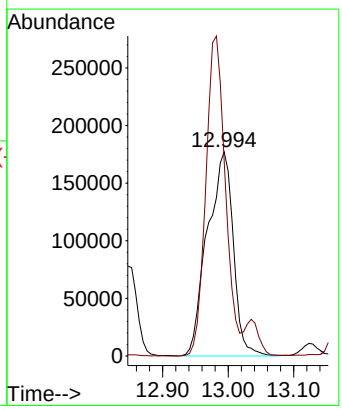


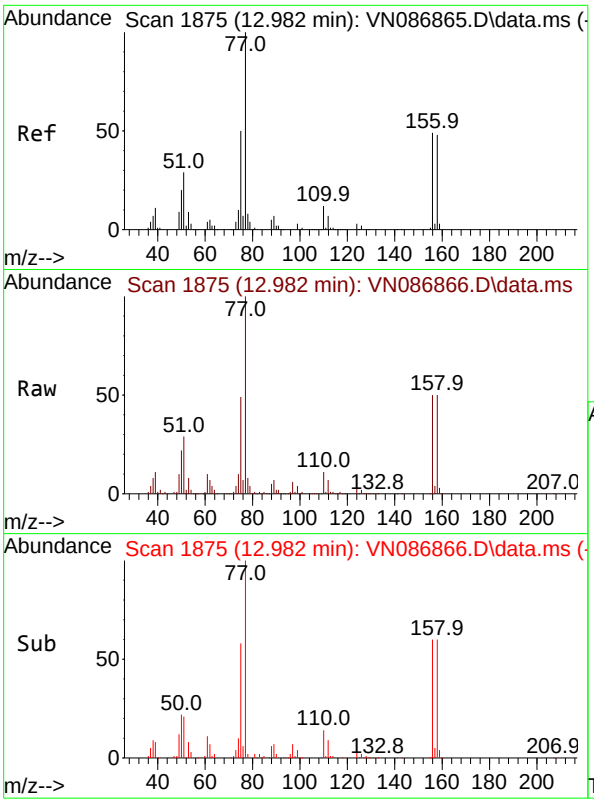


#76
1,2,3-Trichloropropane
Concen: 138.300 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 75 Resp: 485083

Ion	Ratio	Lower	Upper
75	100		
77	118.2	79.3	237.9



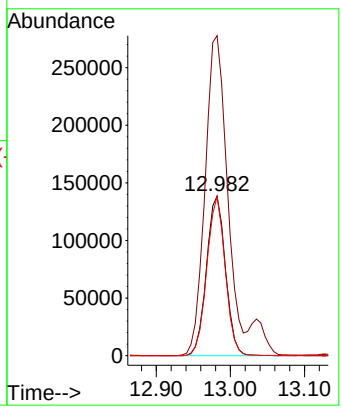


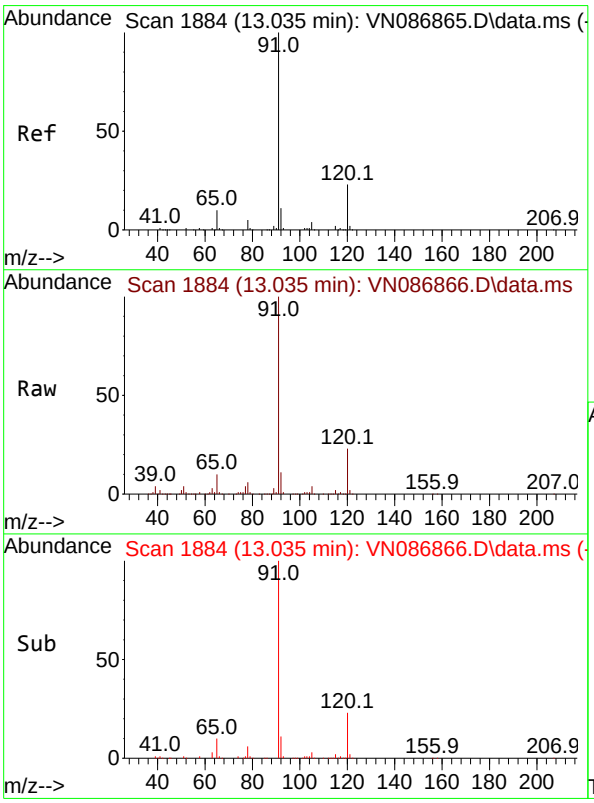
#77
Bromobenzene
Concen: 100.266 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 246413

Ion	Ratio	Lower	Upper
156	100		
77	232.6	117.7	353.1
158	96.4	48.1	144.4

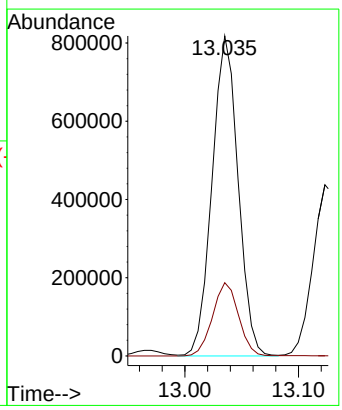


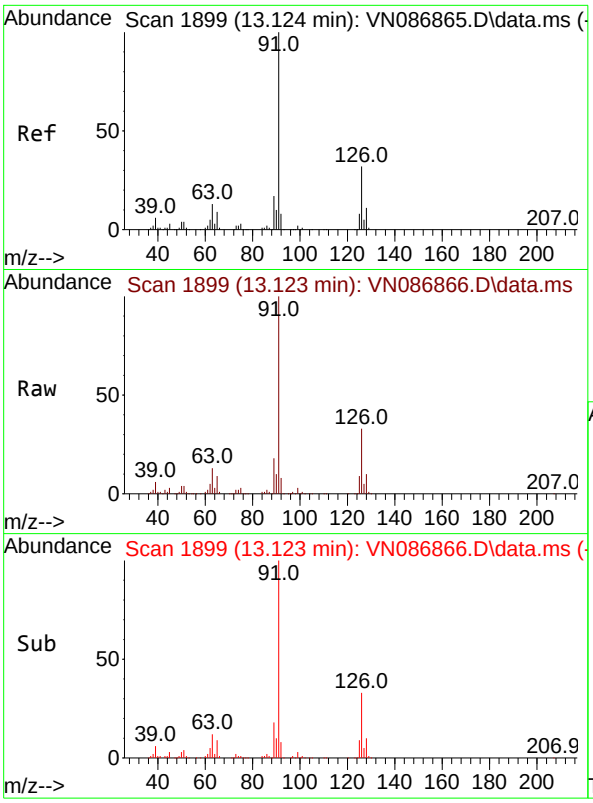


#78
n-propylbenzene
Concen: 99.948 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 91 Resp: 1301631

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.4	34.2



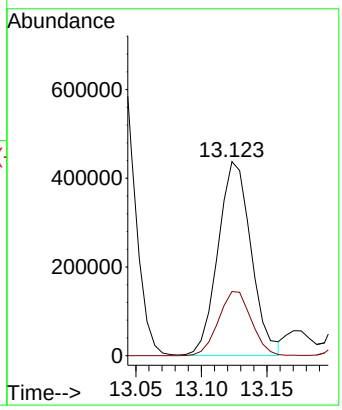


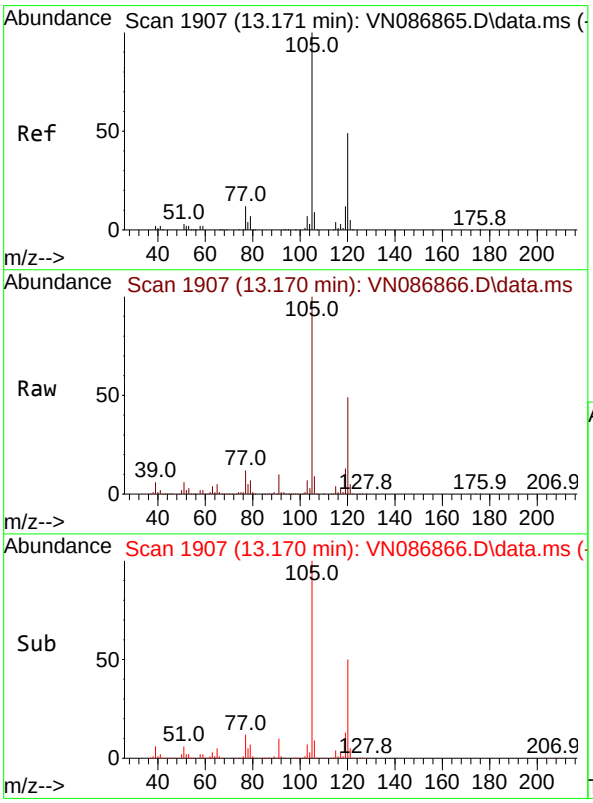
#79
2-Chlorotoluene
Concen: 98.630 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 770308

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.5

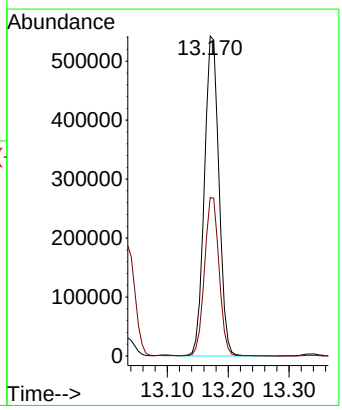


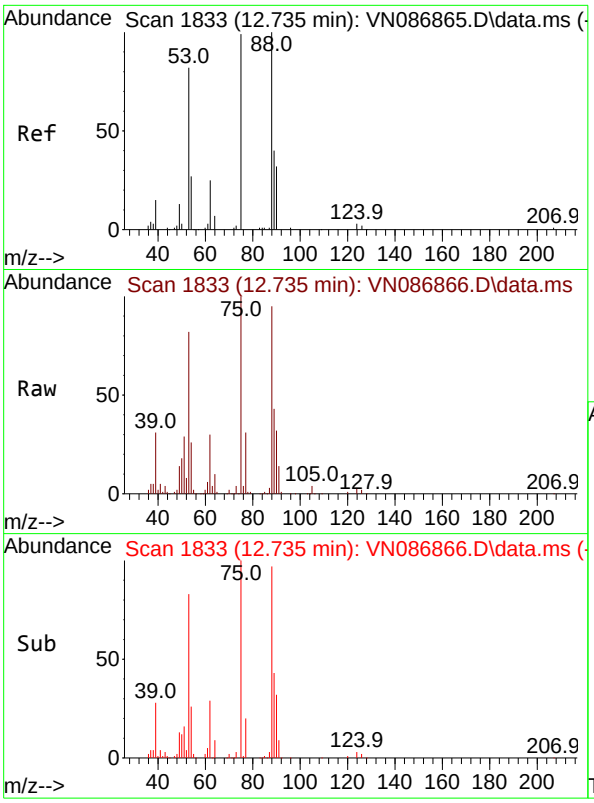


#80
1,3,5-Trimethylbenzene
Concen: 101.873 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:105 Resp: 901317

Ion	Ratio	Lower	Upper
105	100		
120	49.7	24.9	74.6



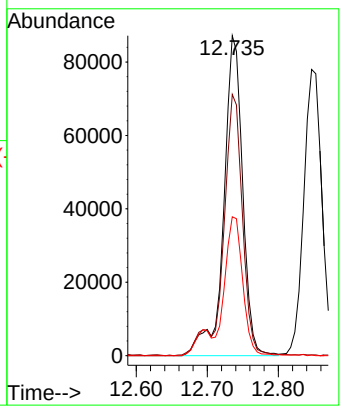


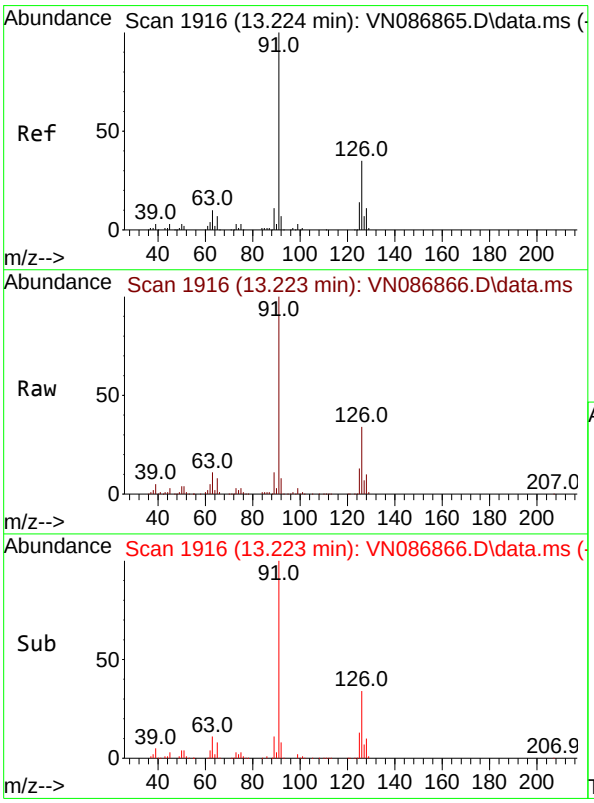
#81
trans-1,4-Dichloro-2-butene
Concen: 105.820 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 160736

Ion	Ratio	Lower	Upper
75	100		
53	76.0	66.6	99.8
89	41.1	36.7	55.1

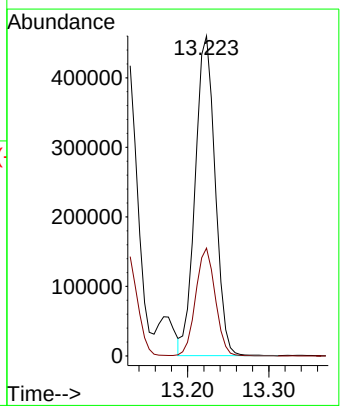


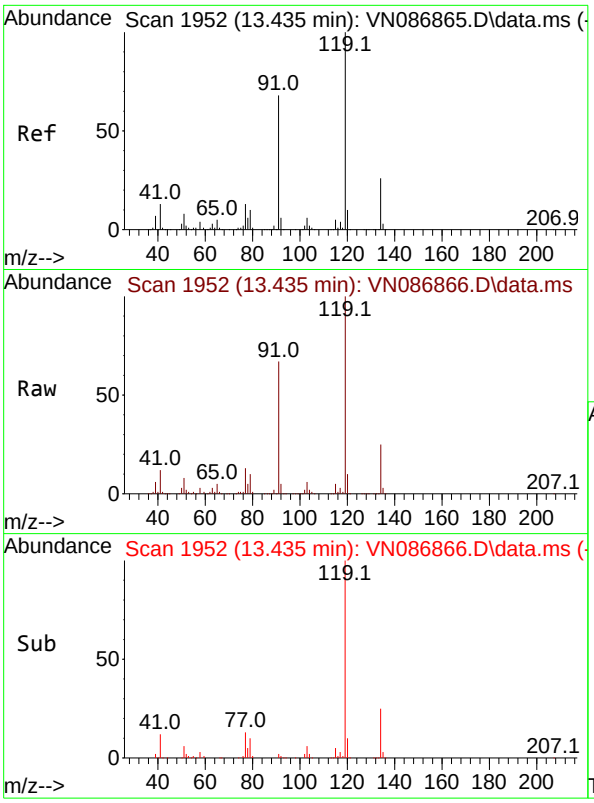


#82
4-Chlorotoluene
Concen: 99.166 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 91 Resp: 783657

Ion	Ratio	Lower	Upper
91	100		
126	33.2	16.7	50.1



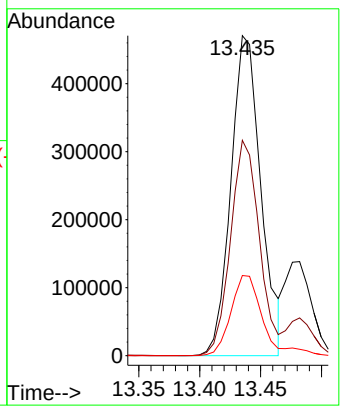


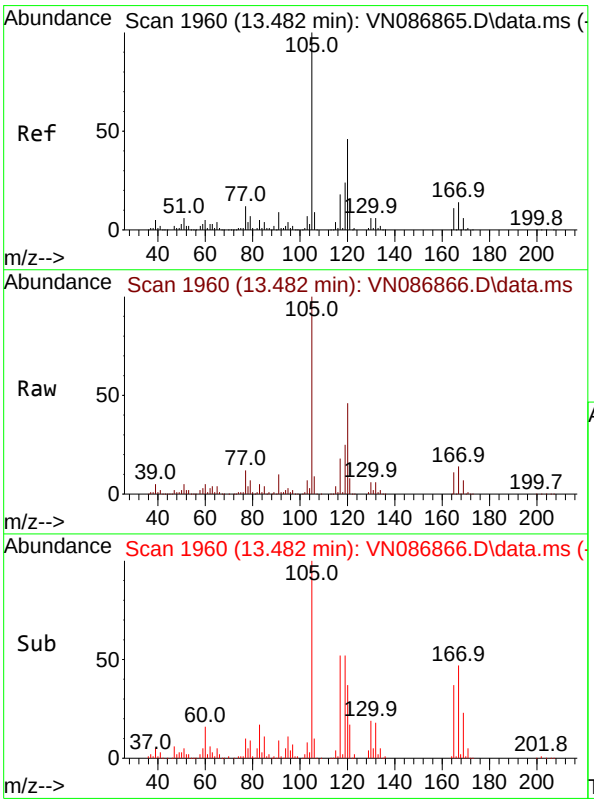
#83
tert-Butylbenzene
Concen: 99.710 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 807528

Ion	Ratio	Lower	Upper
119	100		
91	64.6	32.1	96.5
134	26.6	13.4	40.1

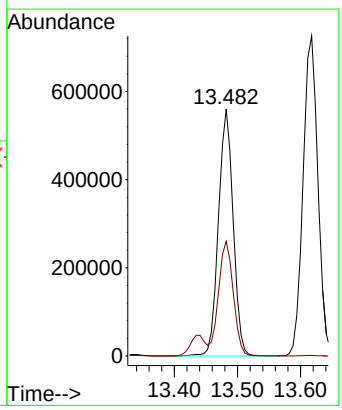


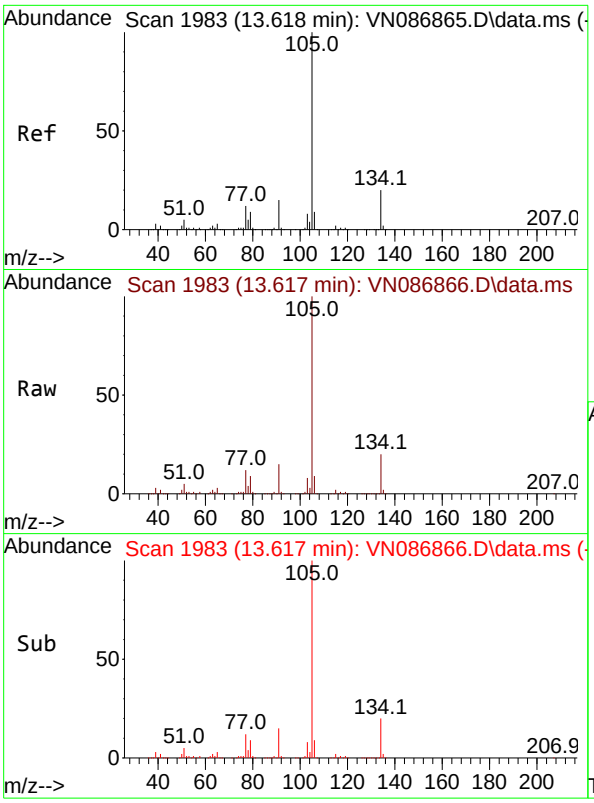


#84
1,2,4-Trimethylbenzene
Concen: 101.983 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:105 Resp: 904794

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.2	69.6



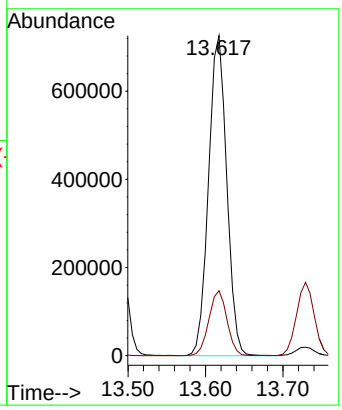


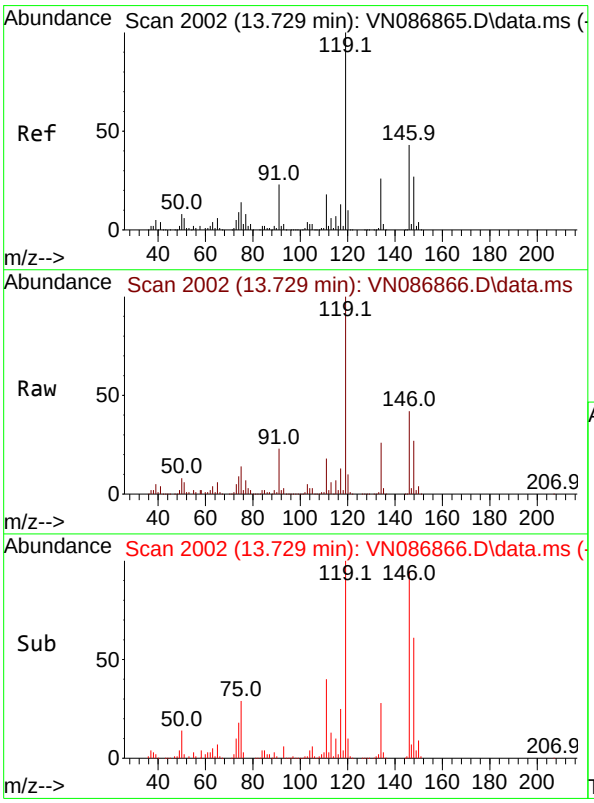
#85
sec-Butylbenzene
Concen: 100.513 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 1182155

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0

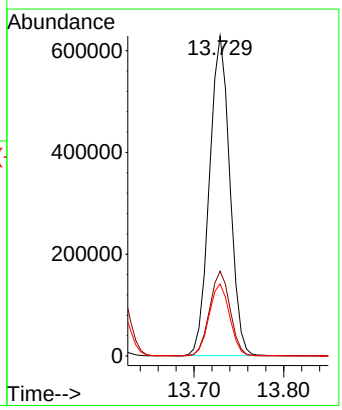


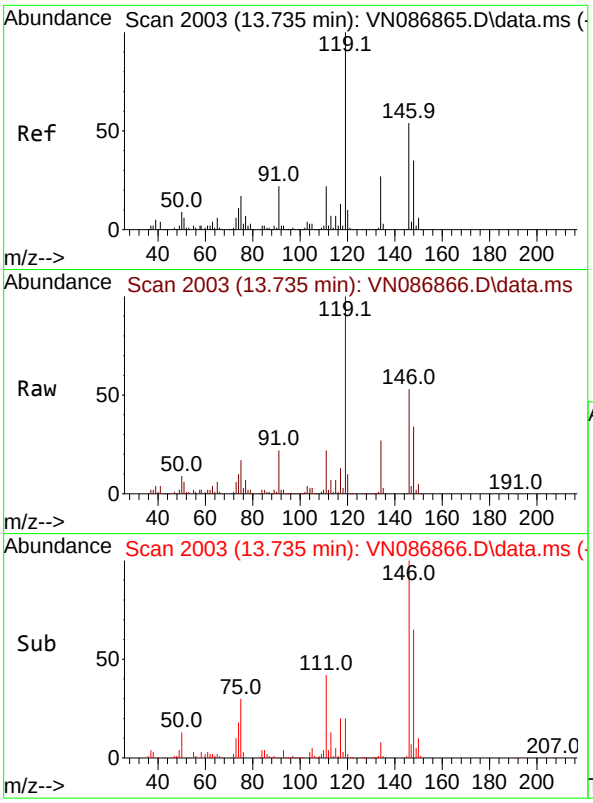


#86
p-Isopropyltoluene
Concen: 101.857 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:119 Resp: 990273

Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.5	40.4
91	22.6	11.5	34.4



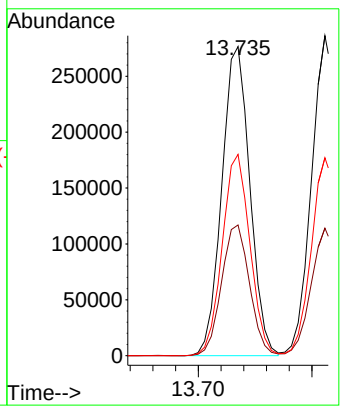


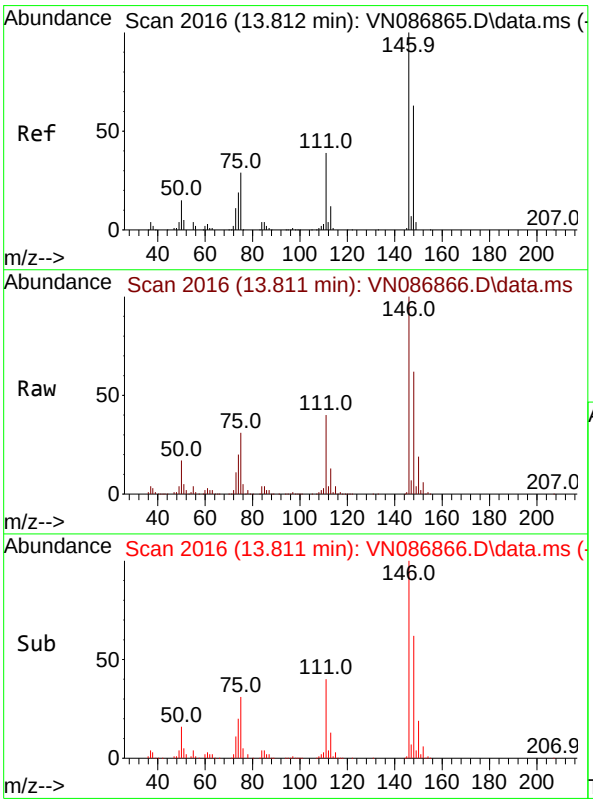
#87
1,3-Dichlorobenzene
Concen: 98.063 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 474162

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.9	62.8
148	64.4	32.0	96.2

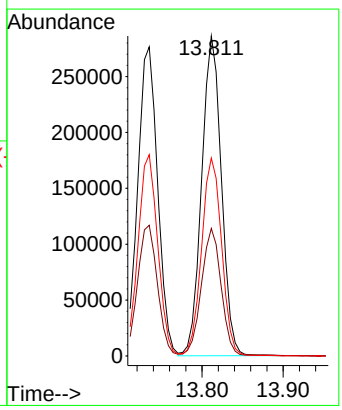


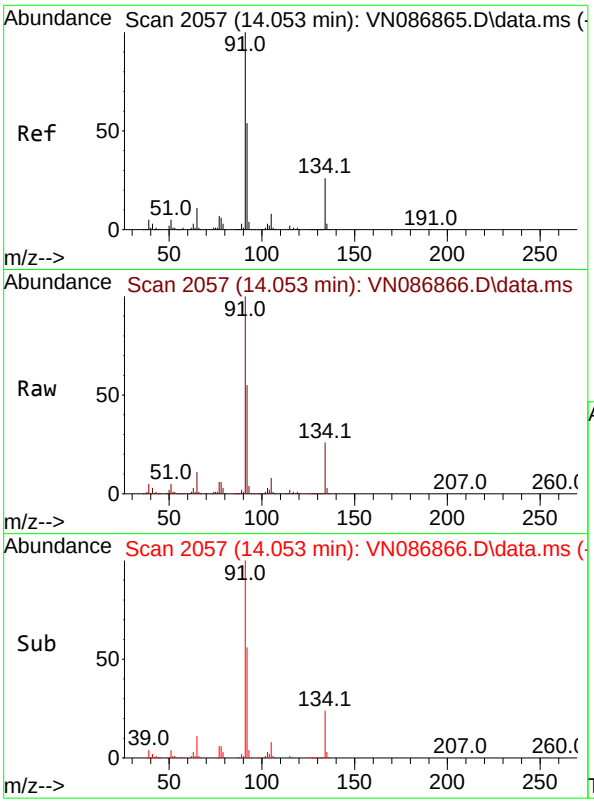


#88
1,4-Dichlorobenzene
Concen: 97.978 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:146 Resp: 483003

Ion	Ratio	Lower	Upper
146	100		
111	39.3	19.9	59.7
148	63.0	31.8	95.4



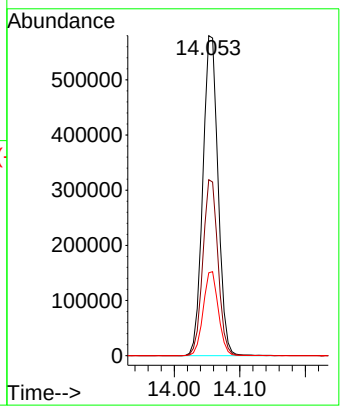


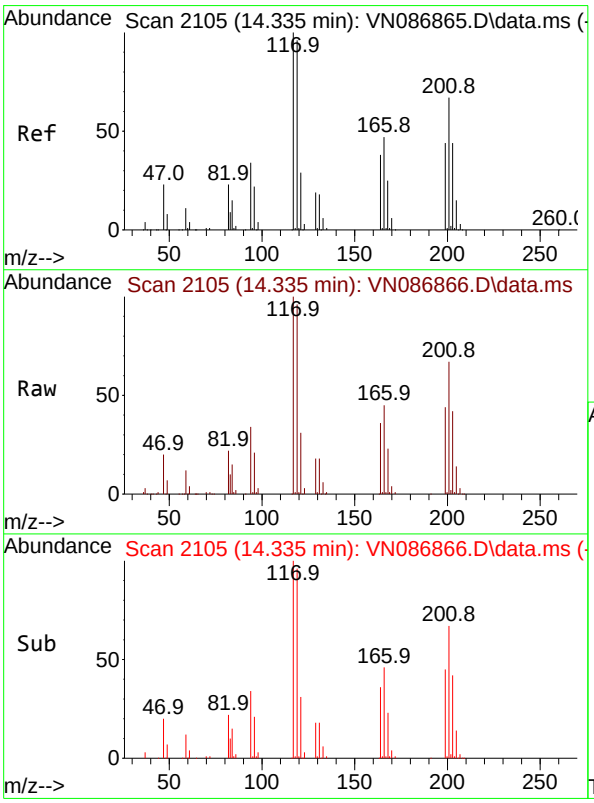
#89
n-Butylbenzene
Concen: 99.598 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 937913

Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.5	82.4
134	26.2	13.0	39.0

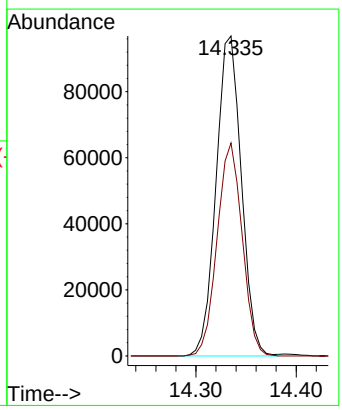


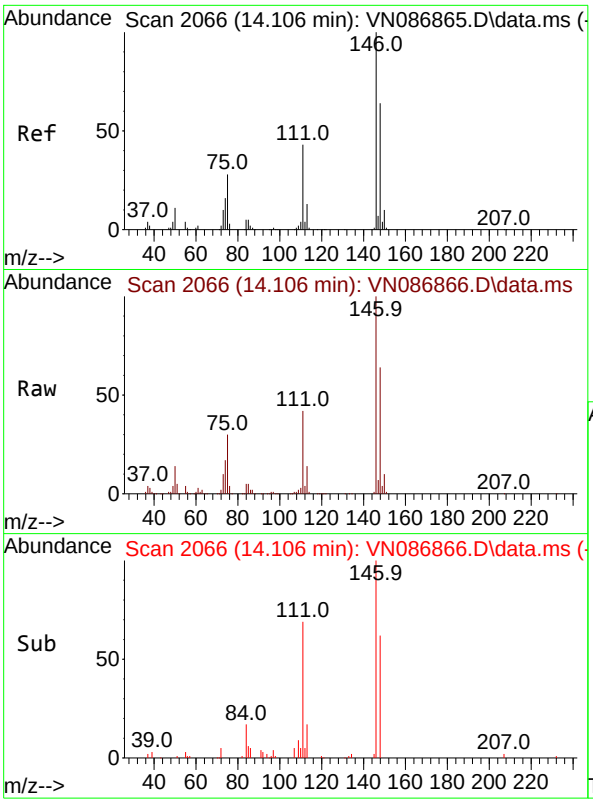


#90
Hexachloroethane
Concen: 103.019 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:117 Resp: 169772

Ion	Ratio	Lower	Upper
117	100		
201	65.8	33.2	99.6



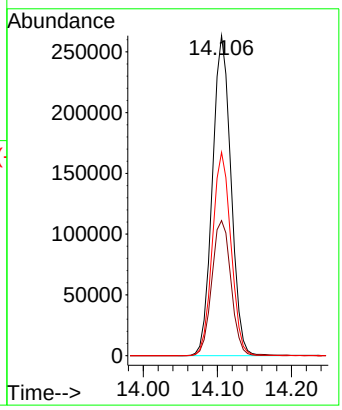


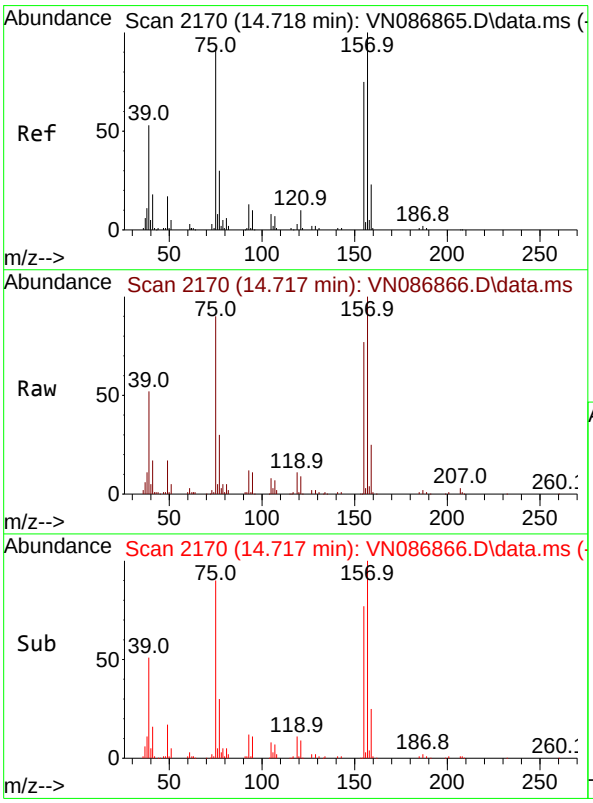
#91
1,2-Dichlorobenzene
Concen: 98.602 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 458049

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.6	64.6
148	63.5	31.7	95.1

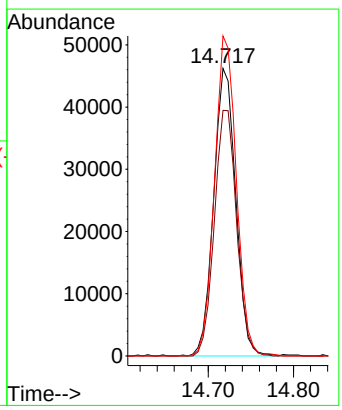


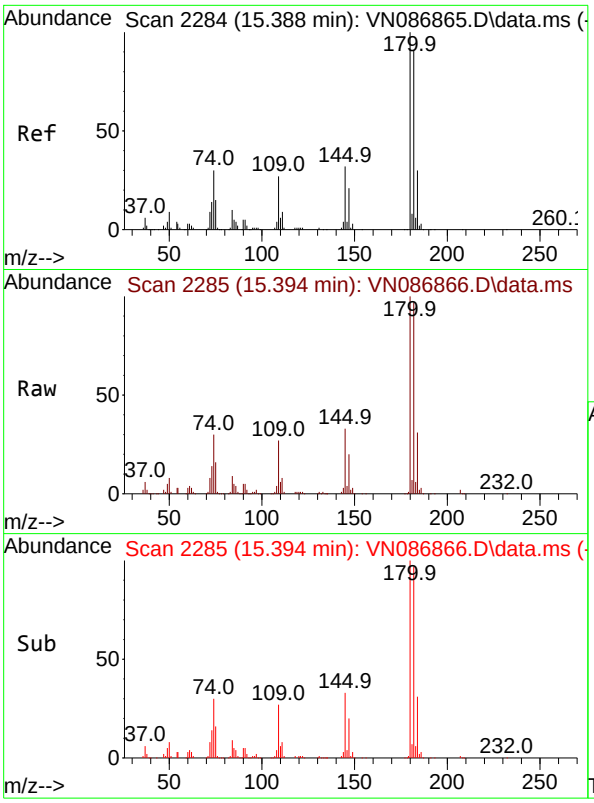


#92
1,2-Dibromo-3-Chloropropane
Concen: 95.877 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 75 Resp: 83243

Ion	Ratio	Lower	Upper
75	100		
155	86.1	41.1	123.4
157	109.8	52.7	158.1



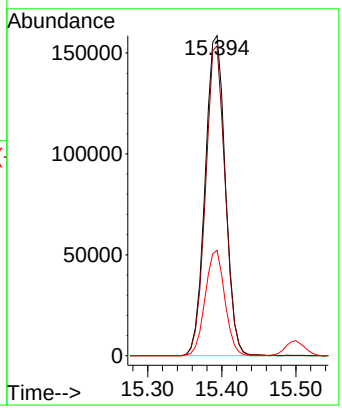


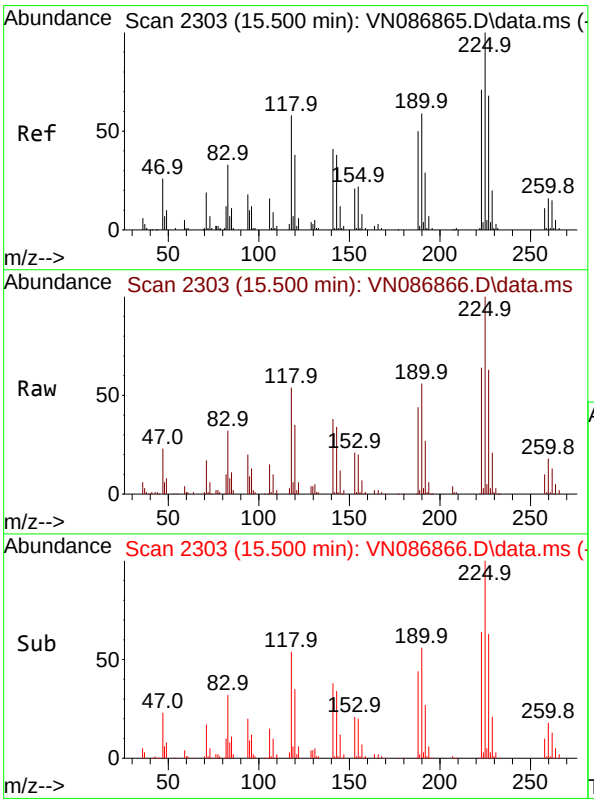
#93
1,2,4-Trichlorobenzene
Concen: 100.751 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:180 Resp: 298870

Ion	Ratio	Lower	Upper
180	100		
182	94.6	46.9	140.7
145	32.2	16.0	47.9

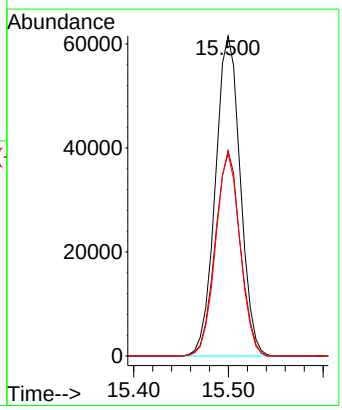


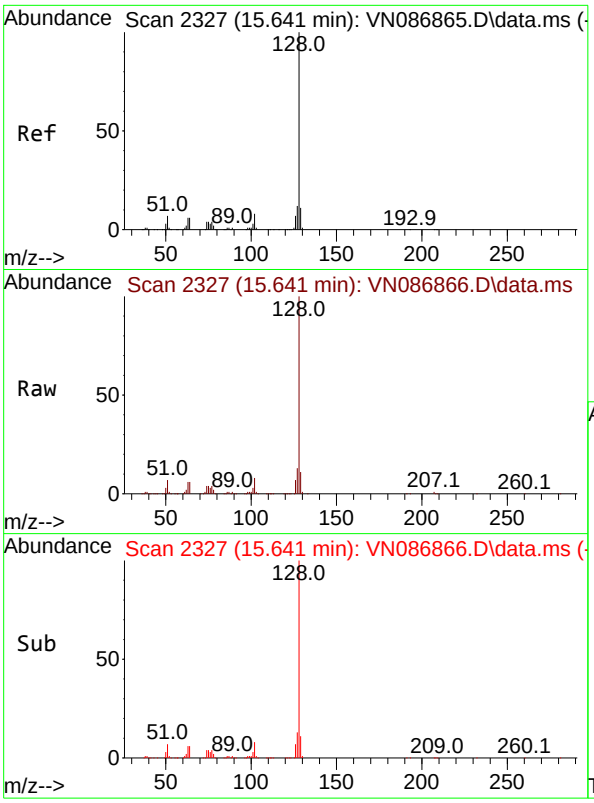


#94
Hexachlorobutadiene
Concen: 101.789 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:225 Resp: 112496

Ion	Ratio	Lower	Upper
225	100		
223	64.2	33.5	100.4
227	62.1	31.1	93.5



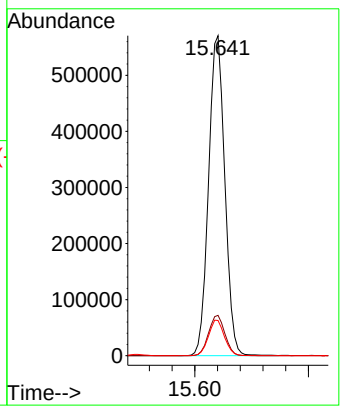


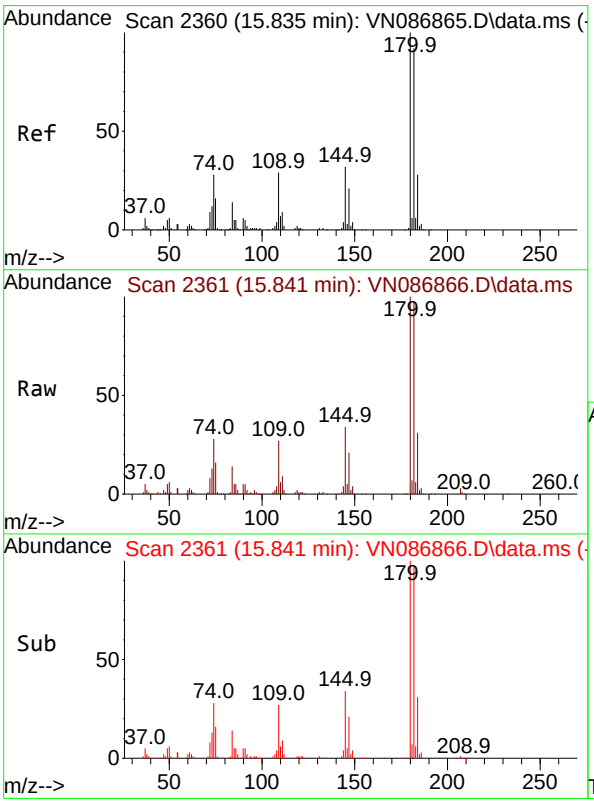
#95
Naphthalene
Concen: 102.290 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 1129434

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	11.0	8.8	13.2

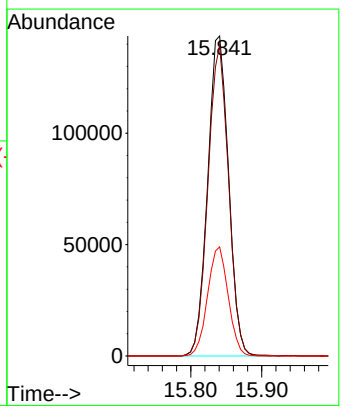




#96
1,2,3-Trichlorobenzene
Concen: 99.796 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:180 Resp: 294127

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.0	141.0
145	33.5	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086867.D
Acq On : 06 Jun 2025 14:49
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	172832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	307937	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	278552	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	136630	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	389297	168.233	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 336.460%#			
35) Dibromofluoromethane	8.176	113	324474	177.803	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 355.600%#			
50) Toluene-d8	10.570	98	1272348	176.120	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 352.240%#			
62) 4-Bromofluorobenzene	12.847	95	481421	179.364	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 358.720%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	262143	152.122	ug/l	100
3) Chloromethane	2.394	50	304558	136.865	ug/l	100
4) Vinyl Chloride	2.553	62	335834	146.303	ug/l	100
5) Bromomethane	2.965	94	190786	148.522	ug/l	98
6) Chloroethane	3.136	64	208568	140.664	ug/l	96
7) Trichlorofluoromethane	3.518	101	427871	142.666	ug/l	100
8) Diethyl Ether	3.983	74	191555	146.593	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.388	101	269810	143.192	ug/l	100
10) Methyl Iodide	4.606	142	352020	144.118	ug/l	99
11) Tert butyl alcohol	5.553	59	430866	686.213	ug/l	100
12) 1,1-Dichloroethene	4.353	96	273388	142.118	ug/l	98
13) Acrolein	4.194	56	171625	863.526	ug/l	99
14) Allyl chloride	5.035	41	490852	153.858	ug/l	92
15) Acrylonitrile	5.735	53	1048372	714.344	ug/l	99
16) Acetone	4.447	43	819041	667.435	ug/l	100
17) Carbon Disulfide	4.730	76	742788	139.594	ug/l	100
18) Methyl Acetate	5.041	43	523996	146.527	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	998781	143.396	ug/l	99
20) Methylene Chloride	5.300	84	311597	135.628	ug/l	99
21) trans-1,2-Dichloroethene	5.806	96	290960	135.947	ug/l	97
22) Diisopropyl ether	6.688	45	947638	140.915	ug/l	98
23) Vinyl Acetate	6.618	43	3932872	692.189	ug/l	99
24) 1,1-Dichloroethane	6.582	63	540881	139.761	ug/l	99
25) 2-Butanone	7.494	43	1381940	692.809	ug/l	99
26) 2,2-Dichloropropane	7.500	77	450112	149.519	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	363398	141.974	ug/l	99
28) Bromochloromethane	7.824	49	290594	152.718	ug/l	98
29) Tetrahydrofuran	7.847	42	898159	691.211	ug/l	98
30) Chloroform	7.976	83	534038	138.179	ug/l	97
31) Cyclohexane	8.265	56	505795	134.766	ug/l	96
32) 1,1,1-Trichloroethane	8.176	97	462854	140.807	ug/l	99
36) 1,1-Dichloropropene	8.376	75	393166	144.584	ug/l	100
37) Ethyl Acetate	7.571	43	494000	142.706	ug/l	99
38) Carbon Tetrachloride	8.371	117	388595	145.557	ug/l	98
39) Methylcyclohexane	9.606	83	544437	146.136	ug/l	97
40) Benzene	8.612	78	1266139	142.388	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086867.D
Acq On : 06 Jun 2025 14:49
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	276400	142.174	ug/l		98
42) 1,2-Dichloroethane	8.676	62	381516	141.455	ug/l		100
43) Isopropyl Acetate	8.694	43	780791	140.531	ug/l		99
44) Trichloroethene	9.359	130	302548	143.490	ug/l		96
45) 1,2-Dichloropropane	9.623	63	309047	142.856	ug/l		100
46) Dibromomethane	9.712	93	208461	145.074	ug/l		100
47) Bromodichloromethane	9.894	83	430011	145.449	ug/l		100
48) Methyl methacrylate	9.688	41	366967	143.502	ug/l		99
49) 1,4-Dioxane	9.712	88	138035	2967.116	ug/l	#	100
51) 4-Methyl-2-Pentanone	10.447	43	2438311	728.995	ug/l		98
52) Toluene	10.635	92	793270	145.976	ug/l		100
53) t-1,3-Dichloropropene	10.841	75	489809	148.163	ug/l		97
54) cis-1,3-Dichloropropene	10.318	75	518092	146.469	ug/l		99
55) 1,1,2-Trichloroethane	11.017	97	298151	142.588	ug/l		99
56) Ethyl methacrylate	10.876	69	533912	160.311	ug/l		98
57) 1,3-Dichloropropane	11.165	76	516391	142.363	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.165	63	1869543	941.147	ug/l		99
59) 2-Hexanone	11.200	43	1735777	805.662	ug/l		99
60) Dibromochloromethane	11.365	129	322064	147.832	ug/l		98
61) 1,2-Dibromoethane	11.470	107	314606	146.790	ug/l		99
64) Tetrachloroethene	11.106	164	245122	139.048	ug/l		97
65) Chlorobenzene	11.894	112	860345	140.041	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	282739	143.171	ug/l		99
67) Ethyl Benzene	11.964	91	1517883	143.438	ug/l		98
68) m/p-Xylenes	12.070	106	1175378	290.155	ug/l		99
69) o-Xylene	12.400	106	566301	145.966	ug/l		100
70) Styrene	12.411	104	972318	146.459	ug/l		100
71) Bromoform	12.582	173	223200	152.538	ug/l	#	99
73) Isopropylbenzene	12.694	105	1453651	146.042	ug/l		100
74) N-amyl acetate	12.500	43	543747	164.596	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.941	83	474426	140.693	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	644184	197.732	ug/l		71
77) Bromobenzene	12.982	156	335734	147.077	ug/l		98
78) n-propylbenzene	13.035	91	1769694	146.301	ug/l		99
79) 2-Chlorotoluene	13.123	91	1046916	144.317	ug/l		99
80) 1,3,5-Trimethylbenzene	13.170	105	1210325	147.279	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.735	75	216253	153.277	ug/l		95
82) 4-Chlorotoluene	13.223	91	1063581	144.900	ug/l		100
83) tert-Butylbenzene	13.435	119	1093406	145.352	ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	1216529	147.626	ug/l		100
85) sec-Butylbenzene	13.617	105	1582762	144.885	ug/l		99
86) p-Isopropyltoluene	13.729	119	1322780	146.482	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	641966	142.939	ug/l		100
88) 1,4-Dichlorobenzene	13.811	146	646188	141.124	ug/l		99
89) n-Butylbenzene	14.053	91	1251819	143.117	ug/l		100
90) Hexachloroethane	14.335	117	230195	150.387	ug/l		98
91) 1,2-Dichlorobenzene	14.105	146	613177	142.108	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	110677	137.242	ug/l		96
93) 1,2,4-Trichlorobenzene	15.394	180	407621	147.940	ug/l		99
94) Hexachlorobutadiene	15.500	225	151172	147.264	ug/l		98
95) Naphthalene	15.641	128	1545981	150.743	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	404450	147.743	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086867.D
Acq On : 06 Jun 2025 14:49
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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

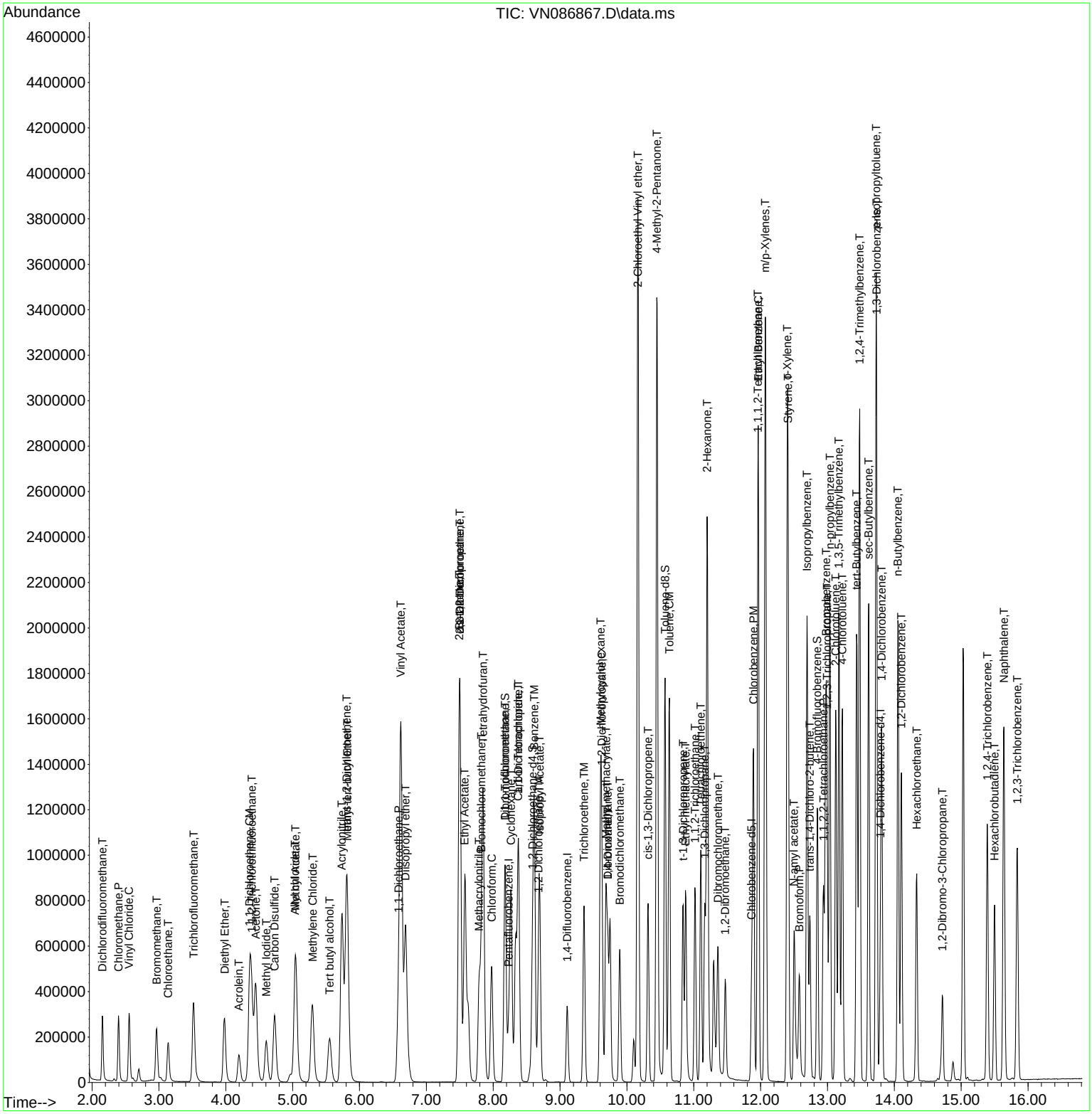
(#) = qualifier out of range (m) = manual integration (+) = signals summed

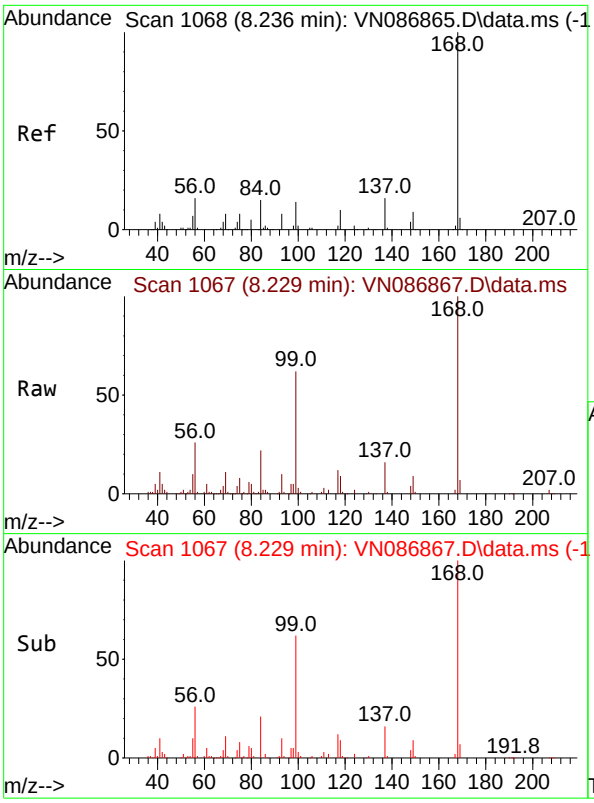
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086867.D
Acq On : 06 Jun 2025 14:49
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration



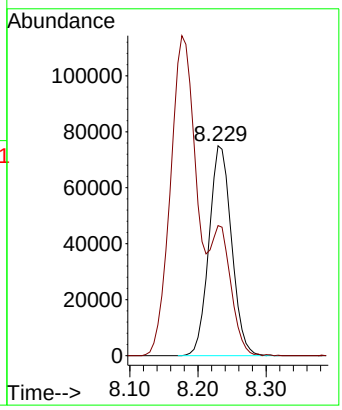


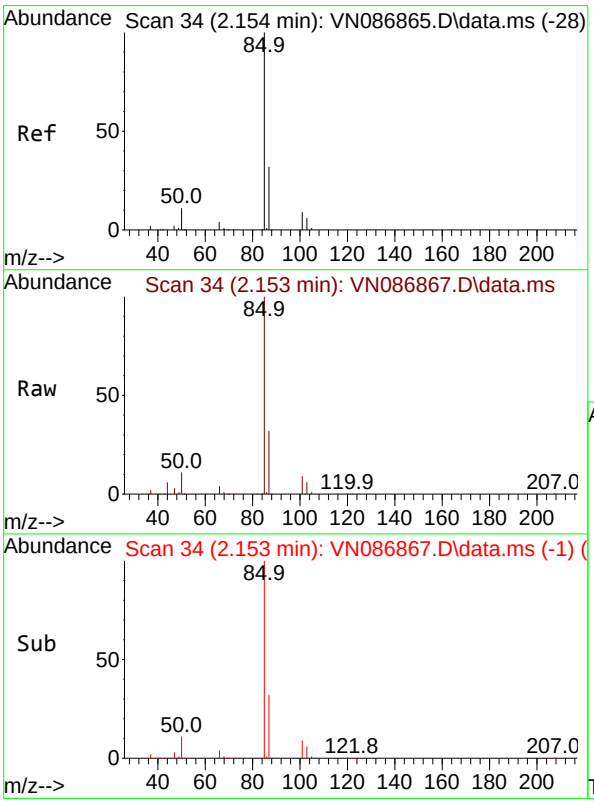
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 172832

Ion	Ratio	Lower	Upper
168	100		
99	61.8	49.1	73.7

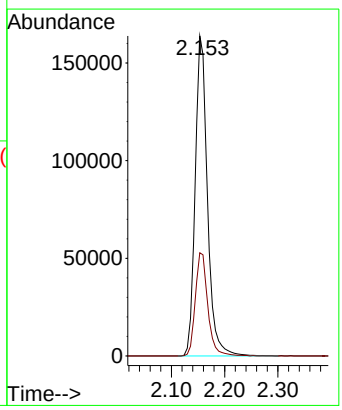


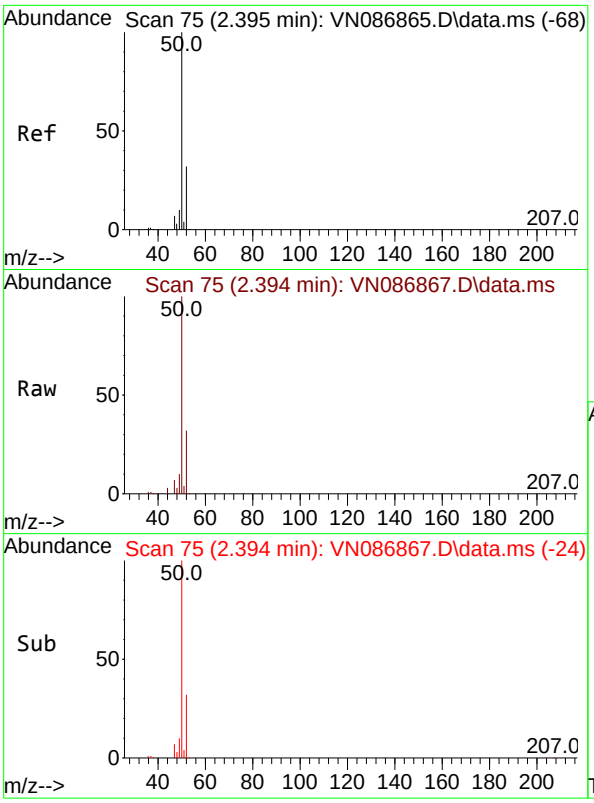


#2
Dichlorodifluoromethane
Concen: 152.122 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 85 Resp: 262143

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.2	48.6



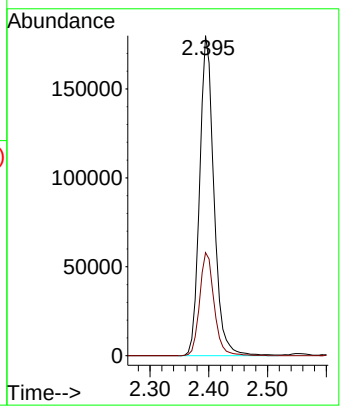


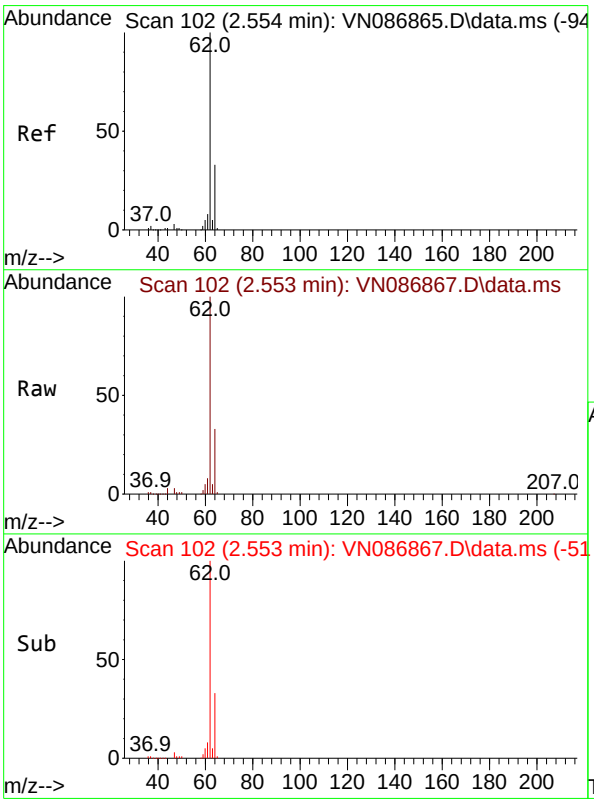
#3
Chloromethane
Concen: 136.865 ug/l
RT: 2.394 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 304558

Ion	Ratio	Lower	Upper
50	100		
52	32.2	25.7	38.5

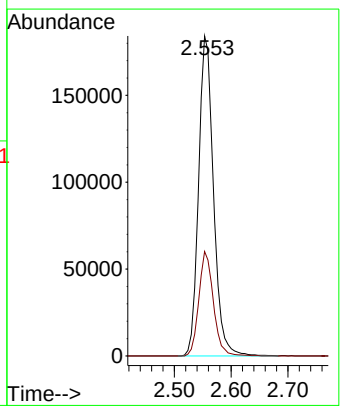


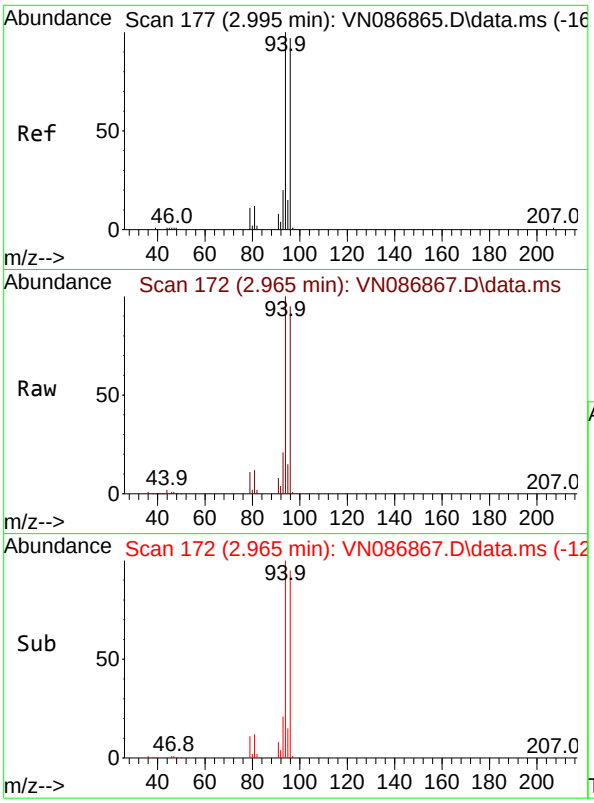


#4
Vinyl Chloride
Concen: 146.303 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 62 Resp: 335834

Ion	Ratio	Lower	Upper
62	100		
64	32.6	26.0	39.0



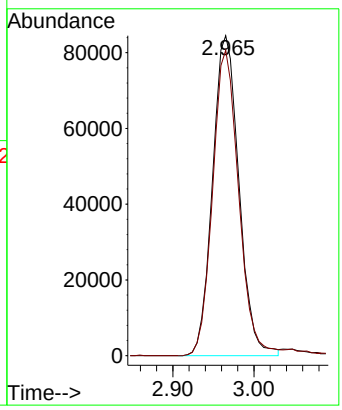


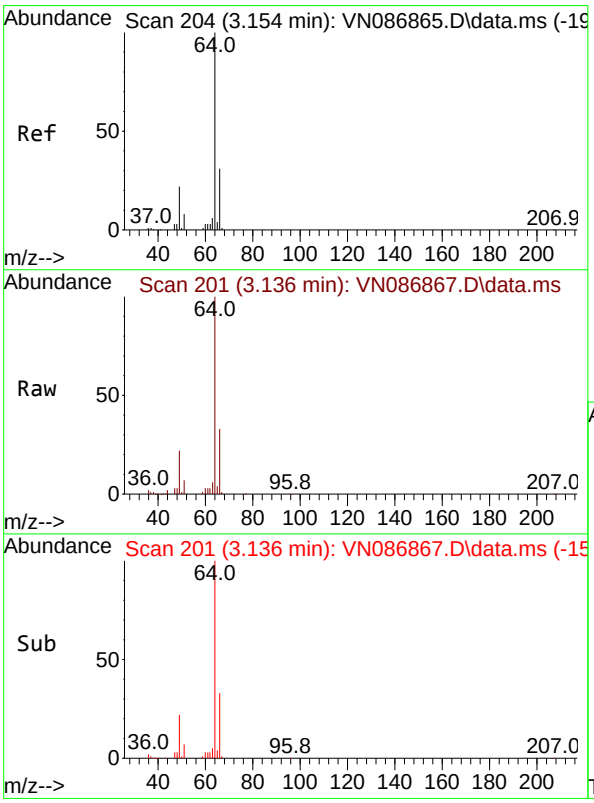
#5
Bromomethane
Concen: 148.522 ug/l
RT: 2.965 min Scan# 1
Delta R.T. -0.030 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 190786

Ion	Ratio	Lower	Upper
94	100		
96	95.5	77.9	116.9

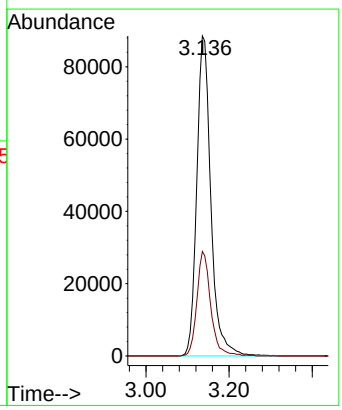


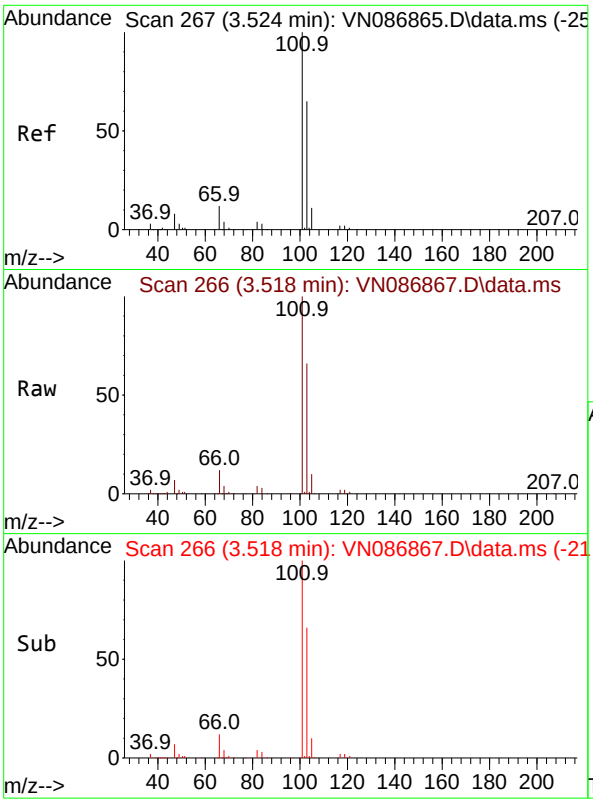


#6
Chloroethane
Concen: 140.664 ug/l
RT: 3.136 min Scan# 201
Delta R.T. -0.018 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 64 Resp: 208568

Ion	Ratio	Lower	Upper
64	100		
66	32.7	24.6	36.8



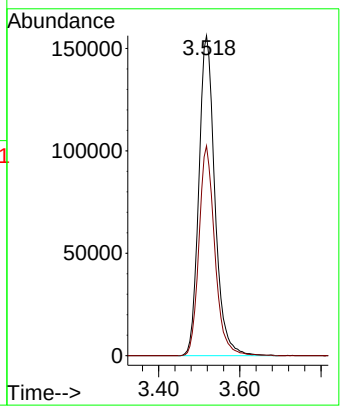


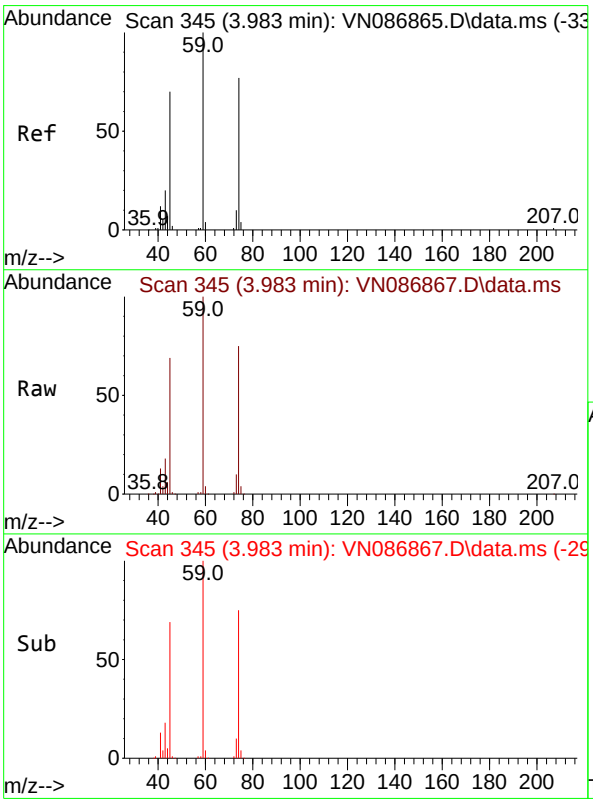
#7
Trichlorofluoromethane
Concen: 142.666 ug/l
RT: 3.518 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 427871

Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.2	78.2

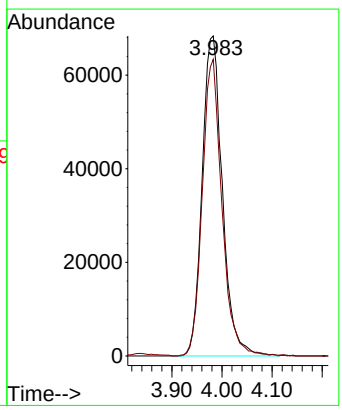


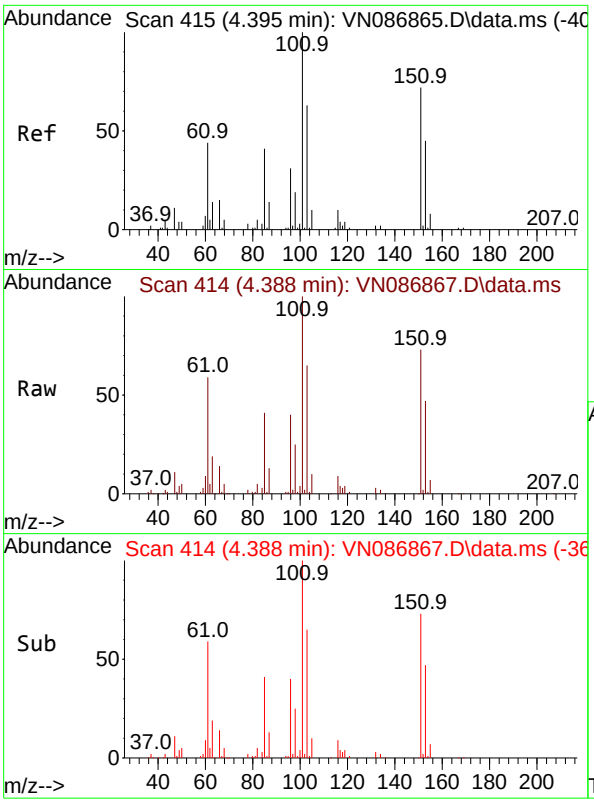


#8
Diethyl Ether
Concen: 146.593 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 74 Resp: 191555

Ion	Ratio	Lower	Upper
74	100		
45	90.3	45.5	136.5



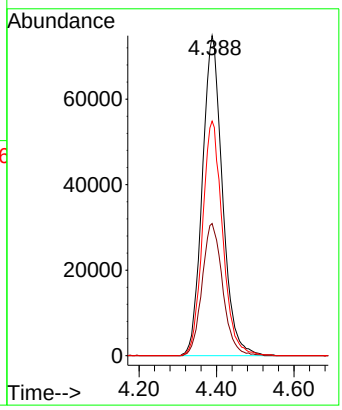


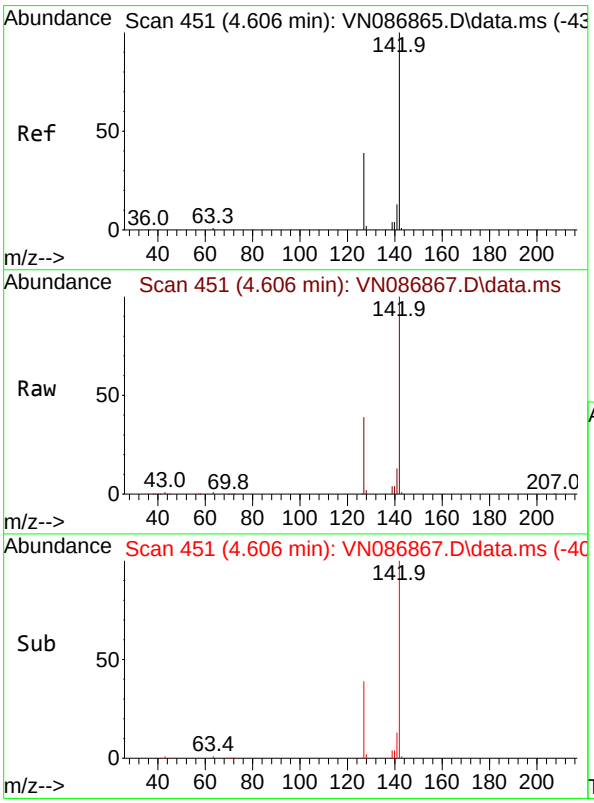
#9
1,1,2-Trichlorotrifluoroethane
Concen: 143.192 ug/l
RT: 4.388 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 269810

Ion	Ratio	Lower	Upper
101	100		
85	42.3	33.8	50.8
151	73.5	58.7	88.1

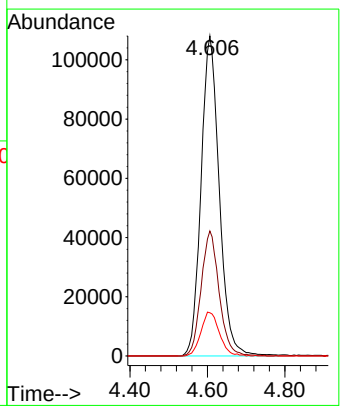


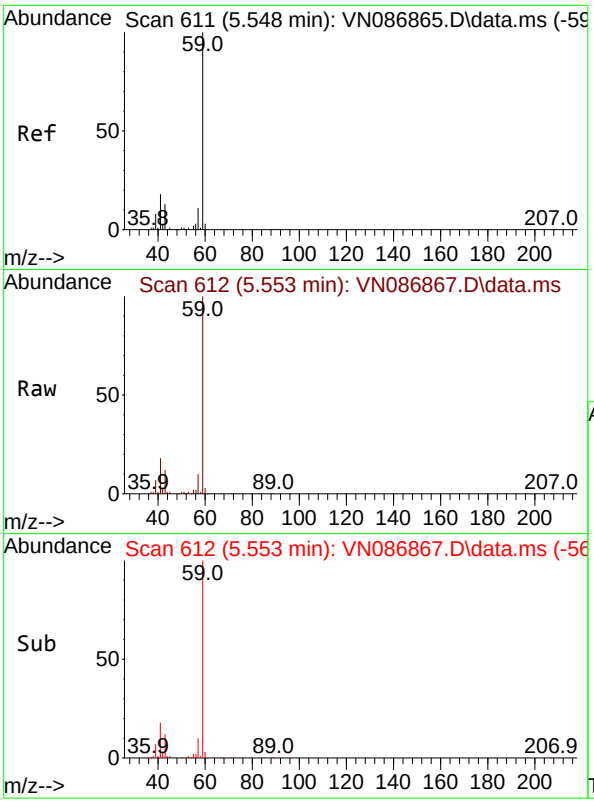


#10
Methyl Iodide
Concen: 144.118 ug/l
RT: 4.606 min Scan# 451
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:142 Resp: 352020

Ion	Ratio	Lower	Upper
142	100		
127	39.1	30.9	46.3
141	13.5	10.4	15.6



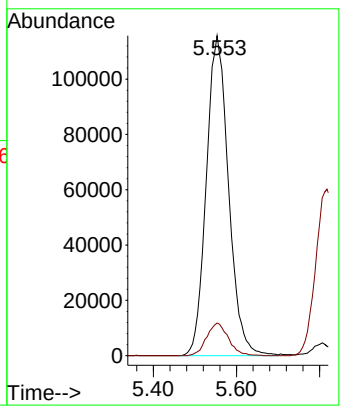


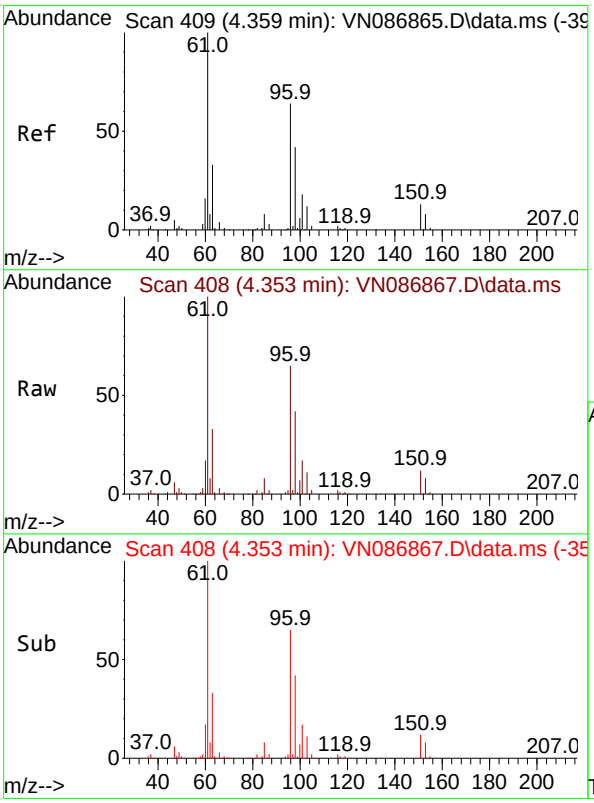
#11
Tert butyl alcohol
Concen: 686.213 ug/l
RT: 5.553 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 59 Resp: 430866

Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.1	12.1

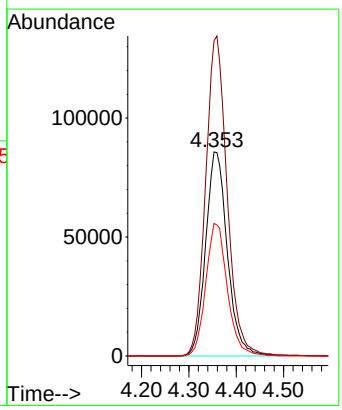


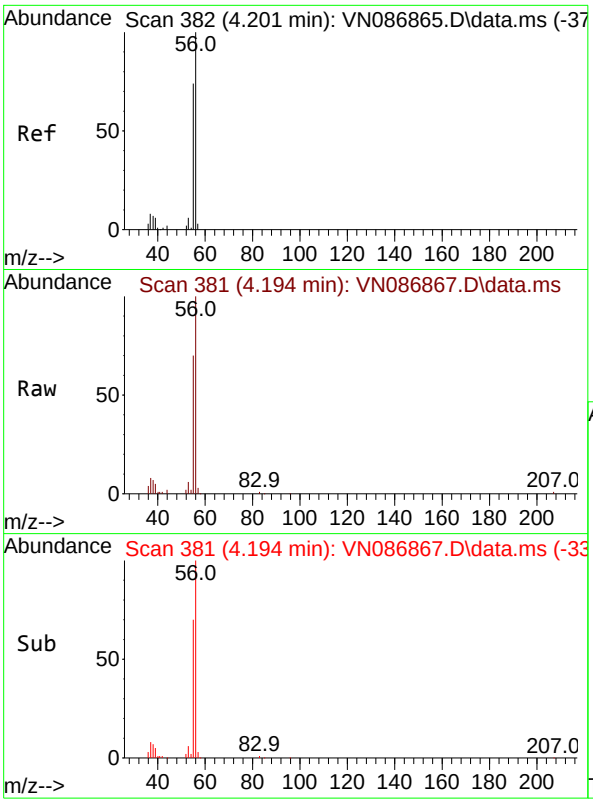


#12
1,1-Dichloroethene
Concen: 142.118 ug/l
RT: 4.353 min Scan# 408
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 96 Resp: 273388

Ion	Ratio	Lower	Upper
96	100		
61	154.5	125.8	188.6
98	64.9	52.5	78.7



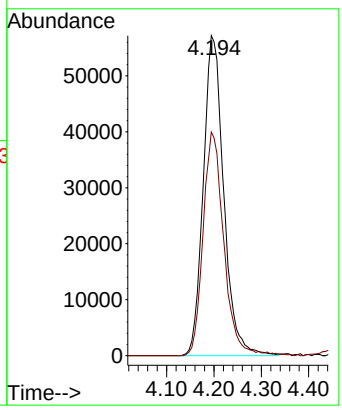


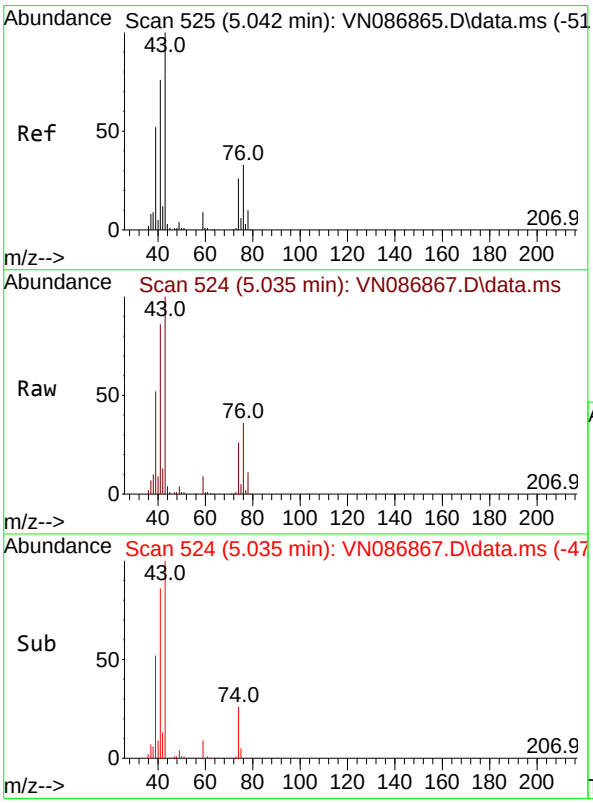
#13
Acrolein
Concen: 863.526 ug/l
RT: 4.194 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 171625

Ion	Ratio	Lower	Upper
56	100		
55	70.4	55.6	83.4

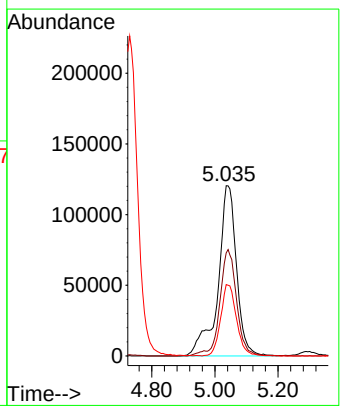


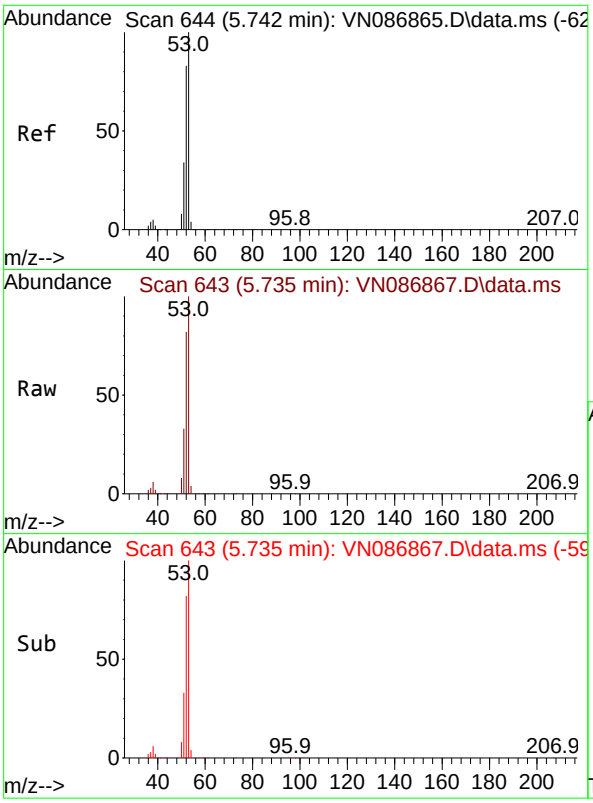


#14
Allyl chloride
Concen: 153.858 ug/l
RT: 5.035 min Scan# 524
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 41 Resp: 490852

Ion	Ratio	Lower	Upper
41	100		
39	56.4	51.3	76.9
76	35.7	31.4	47.0



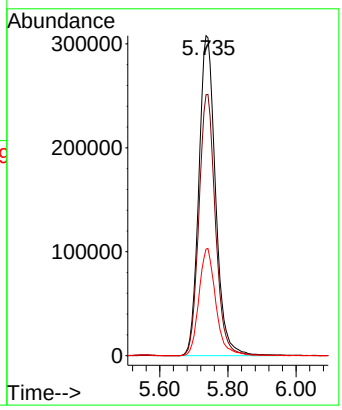


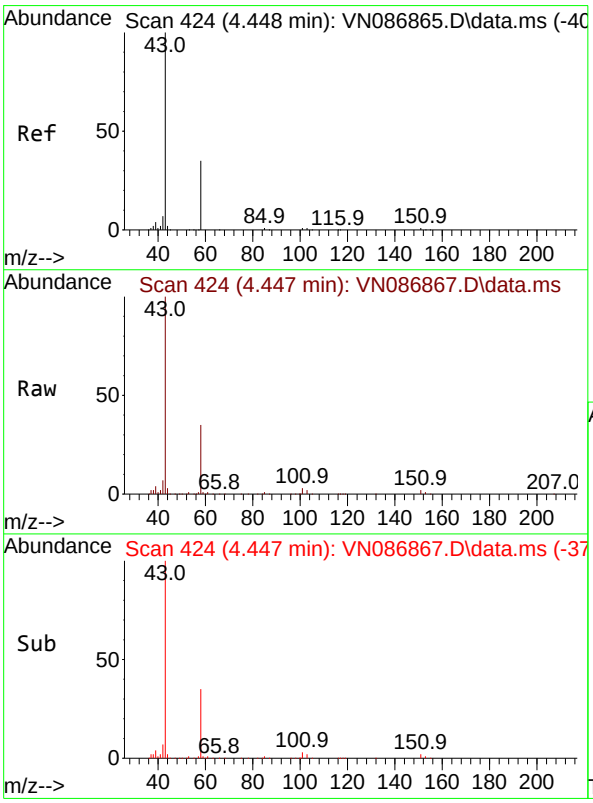
#15
Acrylonitrile
Concen: 714.344 ug/l
RT: 5.735 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 53 Resp: 1048372

Ion	Ratio	Lower	Upper
53	100		
52	80.7	65.0	97.6
51	33.8	27.2	40.8

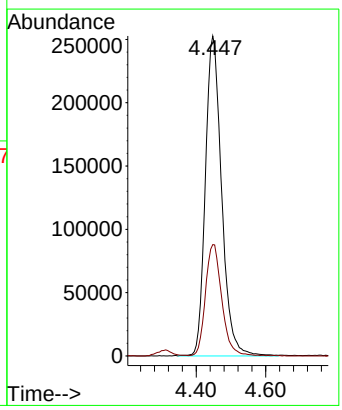


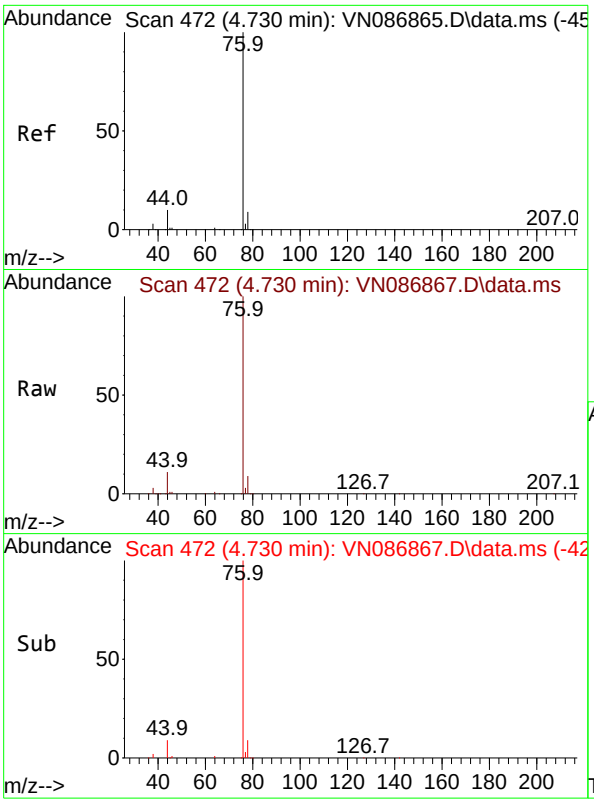


#16
Acetone
Concen: 667.435 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 43 Resp: 819041

Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.0	42.0



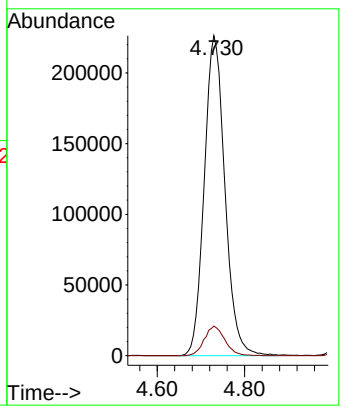


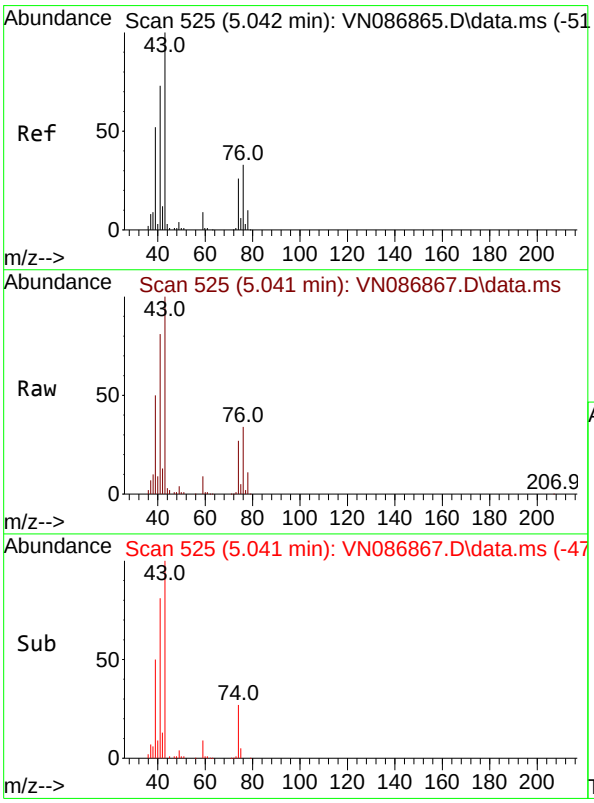
#17
Carbon Disulfide
Concen: 139.594 ug/l
RT: 4.730 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 742788

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9

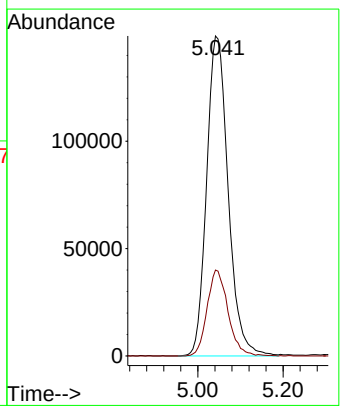


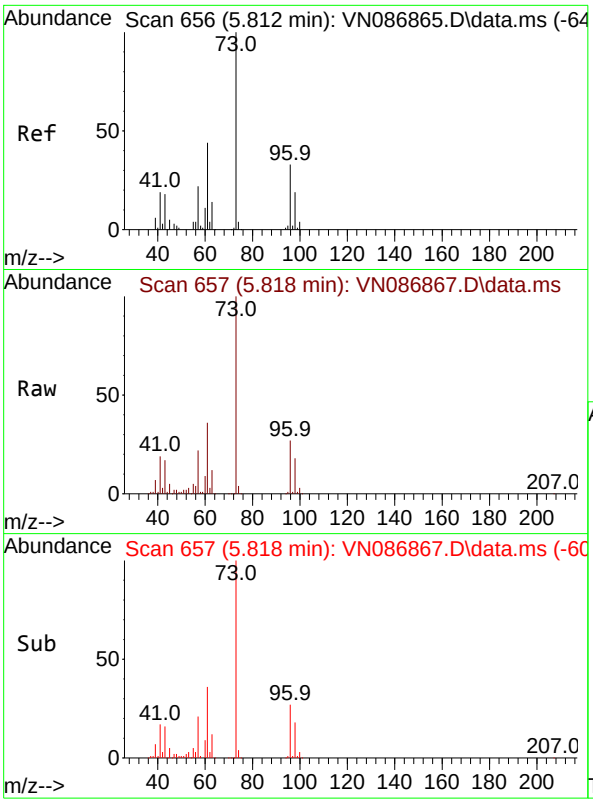


#18
Methyl Acetate
Concen: 146.527 ug/l
RT: 5.041 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 43 Resp: 523996

Ion	Ratio	Lower	Upper
43	100		
74	26.1	20.7	31.1



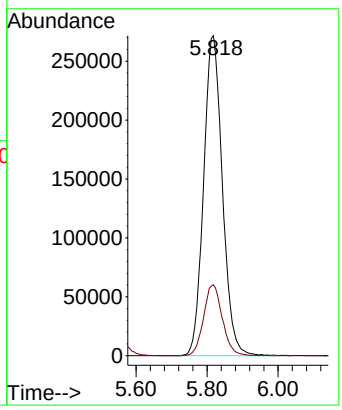


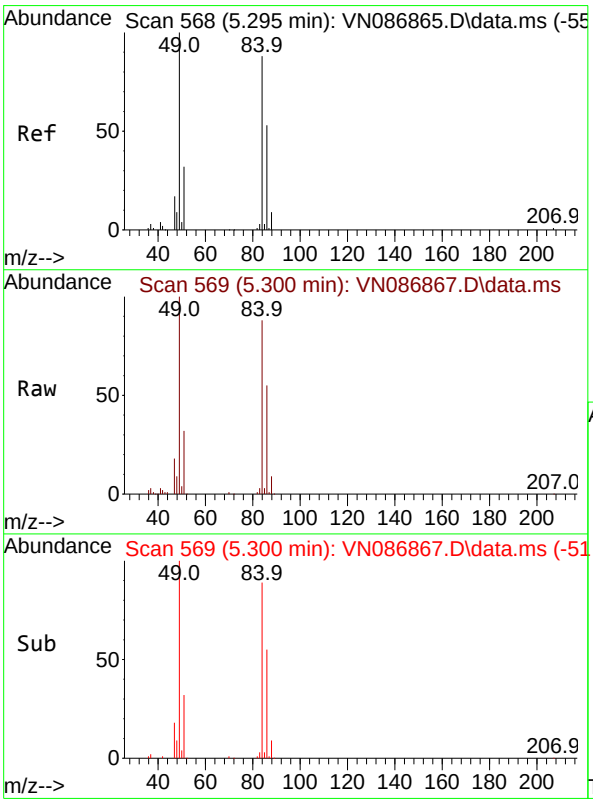
#19
Methyl tert-butyl Ether
Concen: 143.396 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 73 Resp: 998781

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.4	26.2

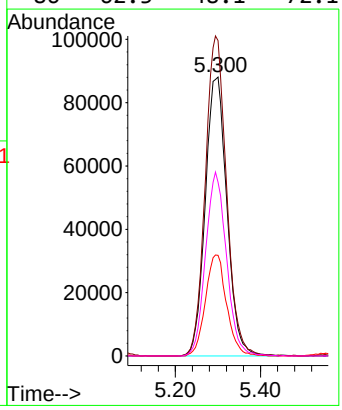


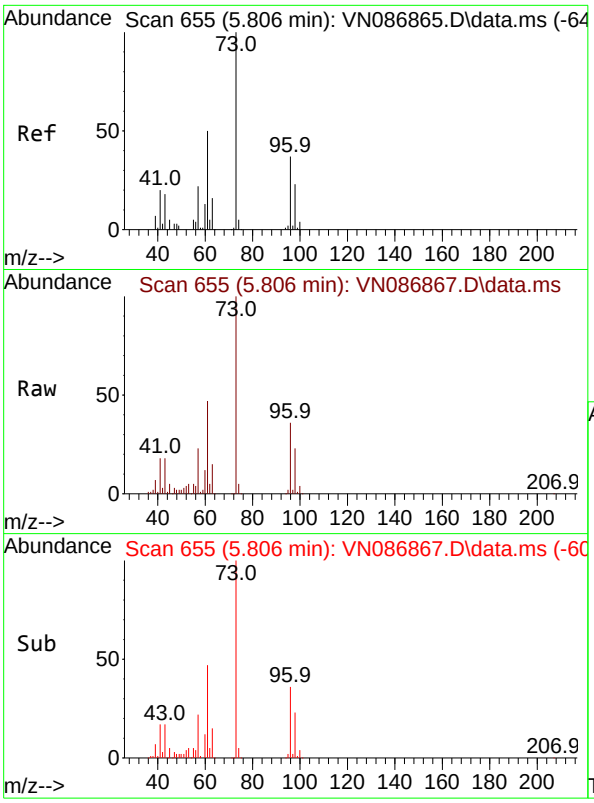


#20
Methylene Chloride
Concen: 135.628 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 84 Resp: 311597

Ion	Ratio	Lower	Upper
84	100		
49	113.0	90.5	135.7
51	36.1	28.5	42.7
86	62.3	48.1	72.1



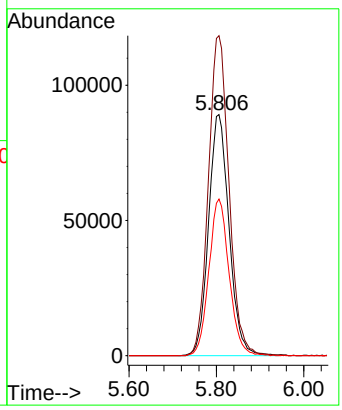


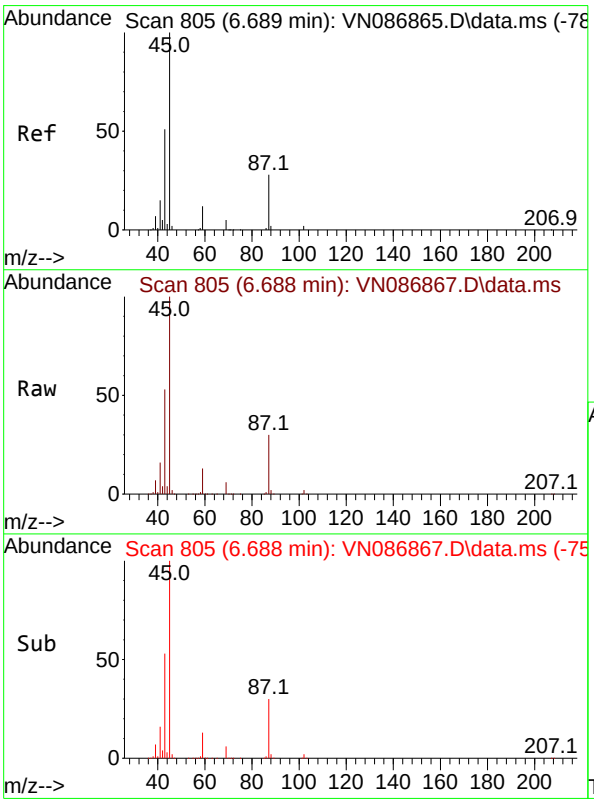
#21
trans-1,2-Dichloroethene
Concen: 135.947 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 290960

Ion	Ratio	Lower	Upper
96	100		
61	132.7	109.2	163.8
98	65.0	49.8	74.8

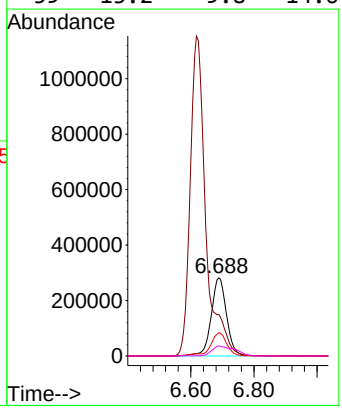


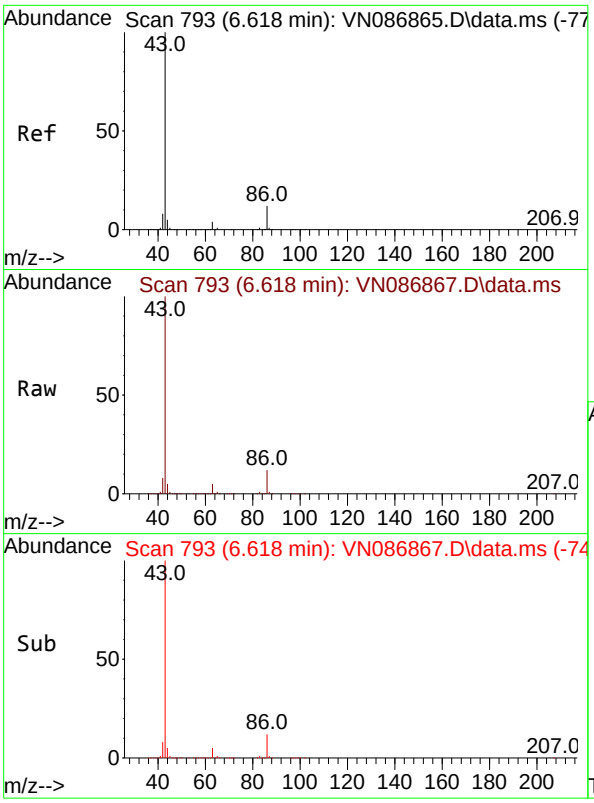


#22
Diisopropyl ether
Concen: 140.915 ug/l
RT: 6.688 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 45 Resp: 947638

Ion	Ratio	Lower	Upper
45	100		
43	53.1	41.9	62.9
87	29.9	22.4	33.6
59	13.2	9.8	14.6



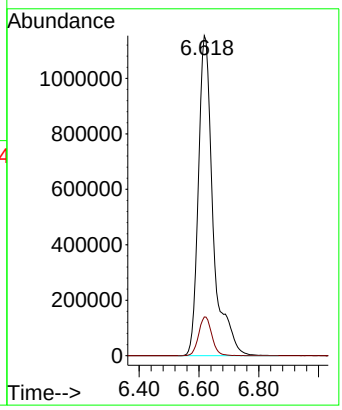


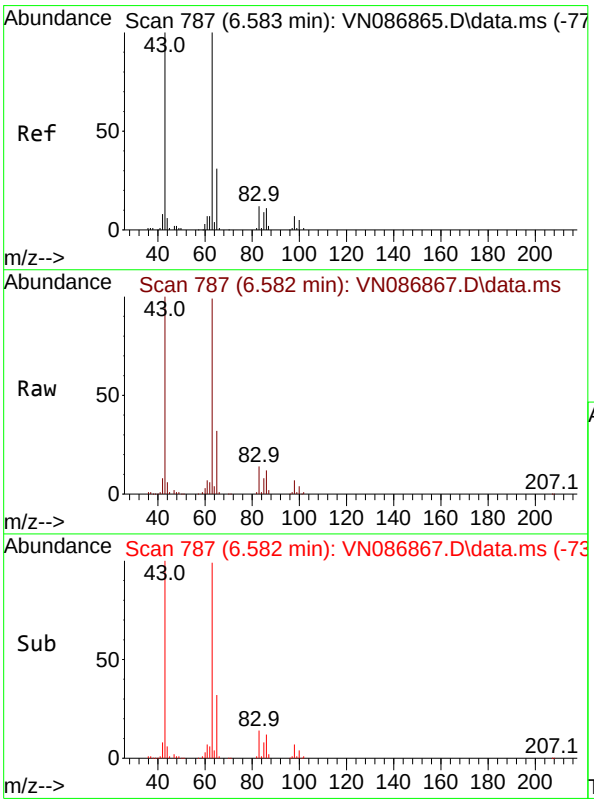
#23
Vinyl Acetate
Concen: 692.189 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 3932872

Ion	Ratio	Lower	Upper
43	100		
86	12.1	9.5	14.3

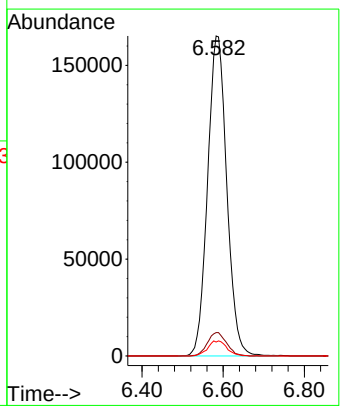


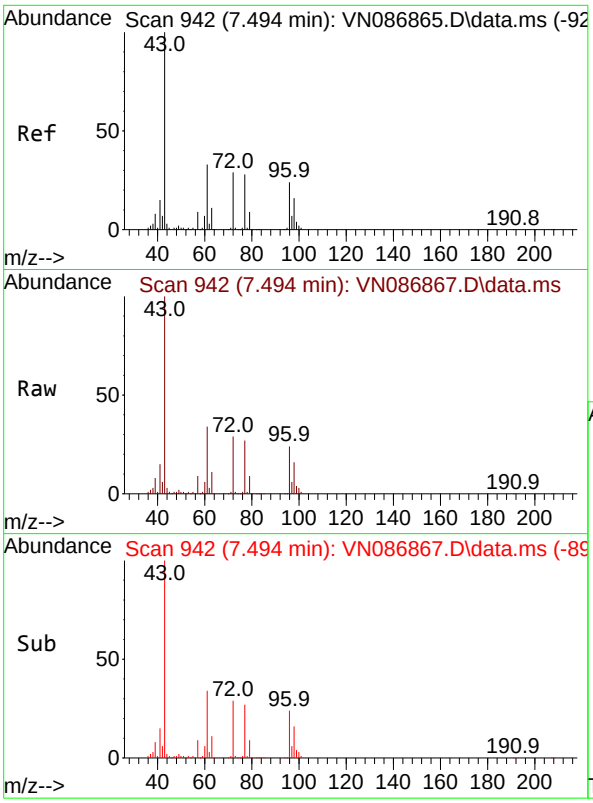


#24
1,1-Dichloroethane
Concen: 139.761 ug/l
RT: 6.582 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 63 Resp: 540881

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.6	10.8
100	4.4	2.6	7.8



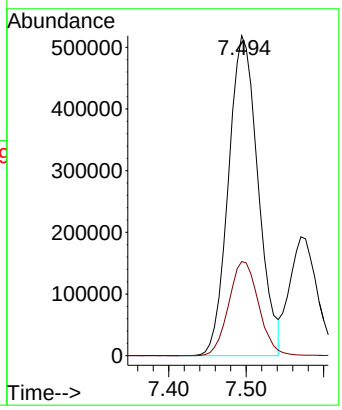


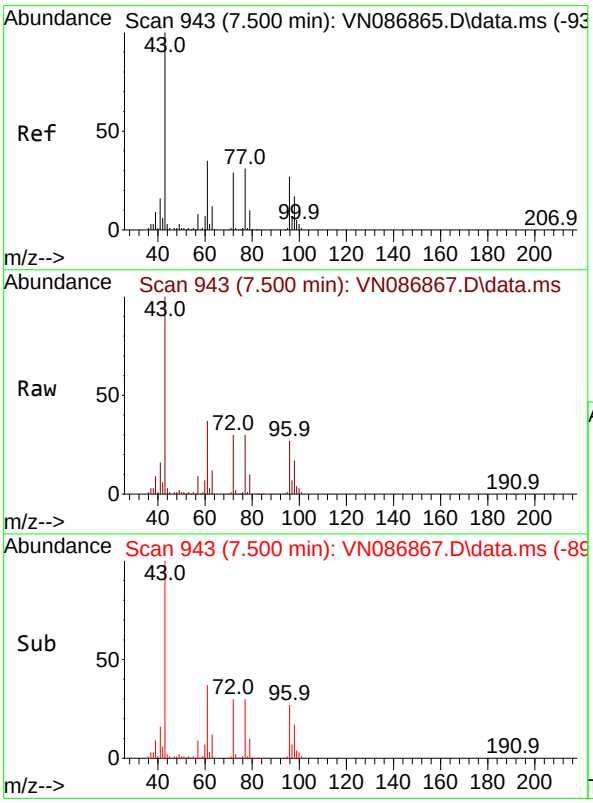
#25
2-Butanone
Concen: 692.809 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1381940

Ion	Ratio	Lower	Upper
43	100		
72	29.4	23.0	34.6

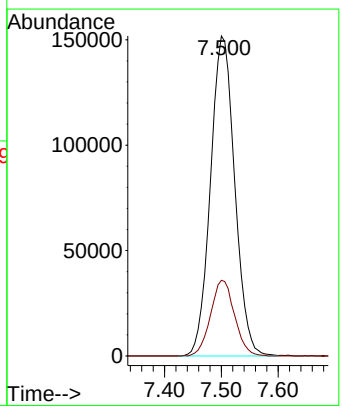


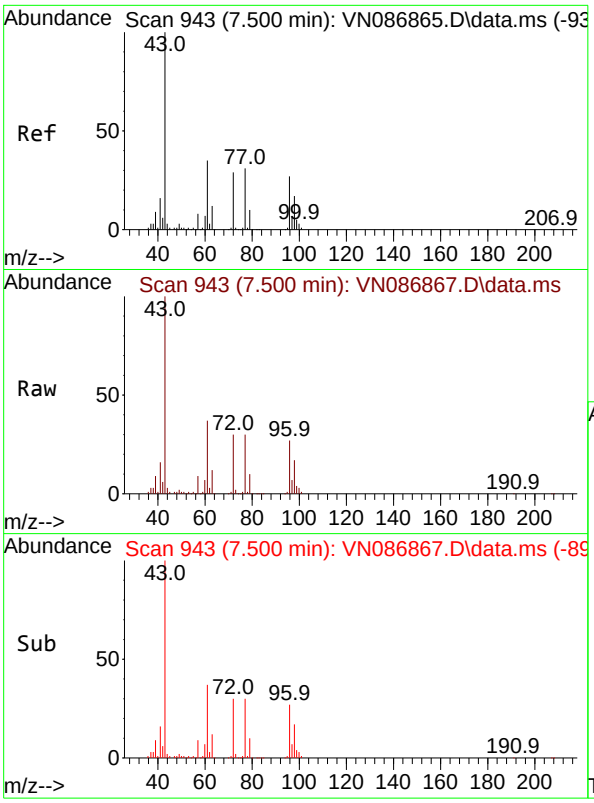


#26
2,2-Dichloropropane
Concen: 149.519 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 77 Resp: 450112

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.6	34.7



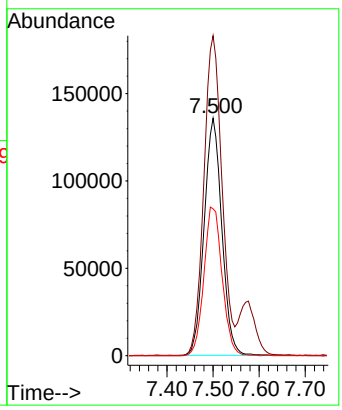


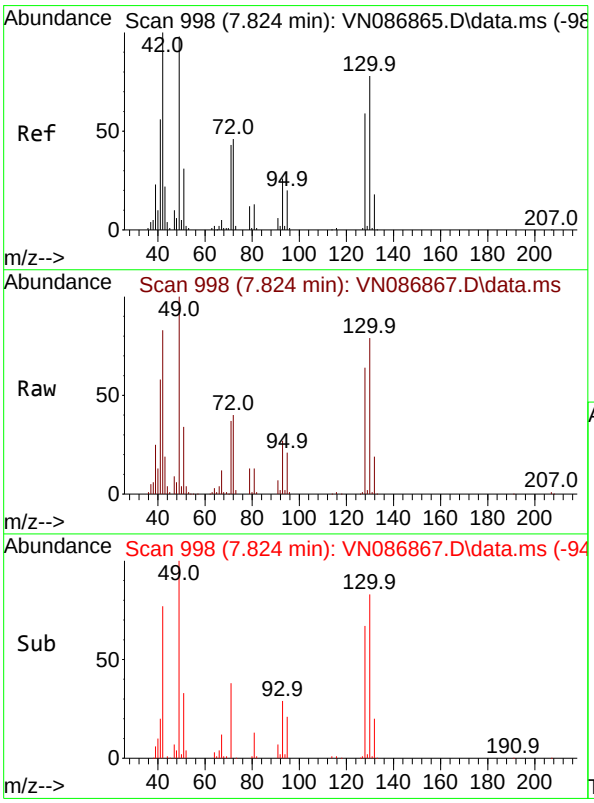
#27
cis-1,2-Dichloroethene
Concen: 141.974 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 363398

Ion	Ratio	Lower	Upper
96	100		
61	138.0	0.0	278.0
98	64.5	0.0	128.2

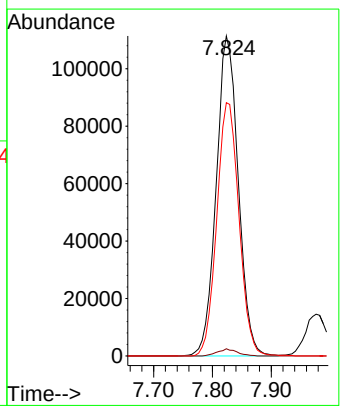


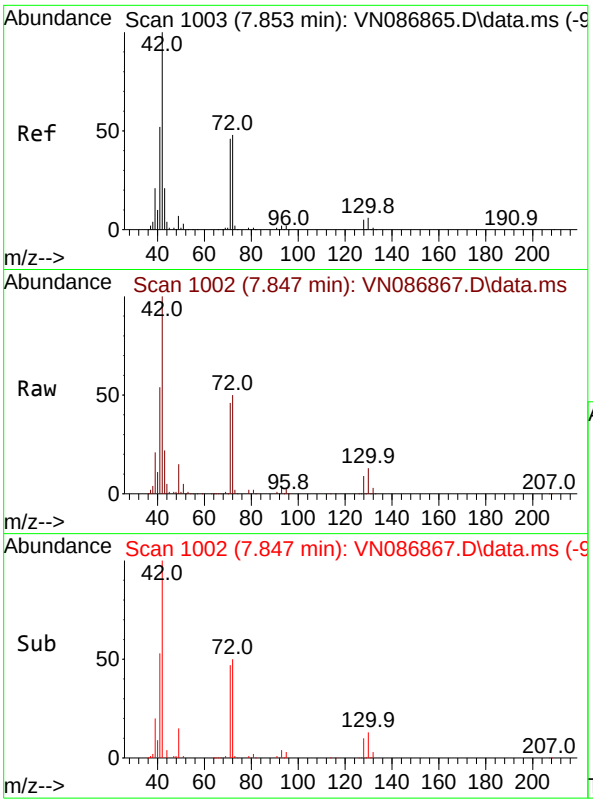


#28
Bromochloromethane
Concen: 152.718 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 49 Resp: 290594

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	79.8	62.2	93.2



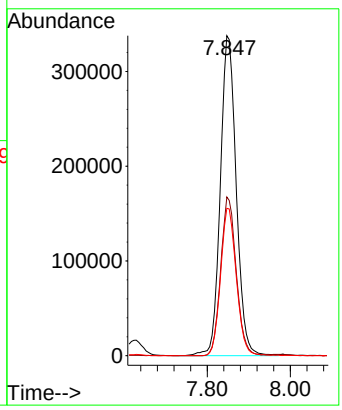


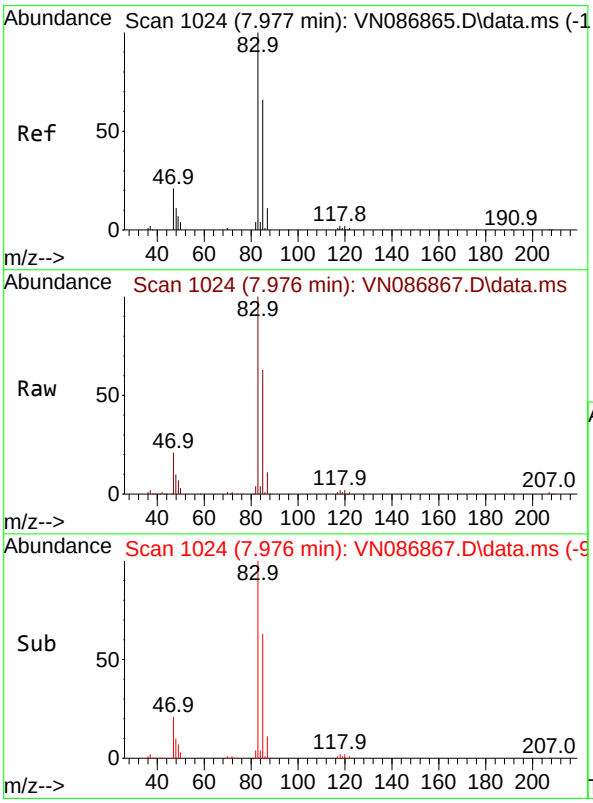
#29
Tetrahydrofuran
Concen: 691.211 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 42 Resp: 898159

Ion	Ratio	Lower	Upper
42	100		
72	48.5	37.8	56.6
71	45.4	35.6	53.4

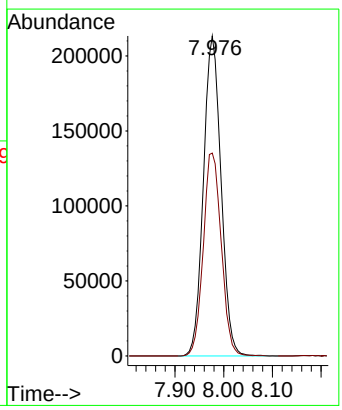


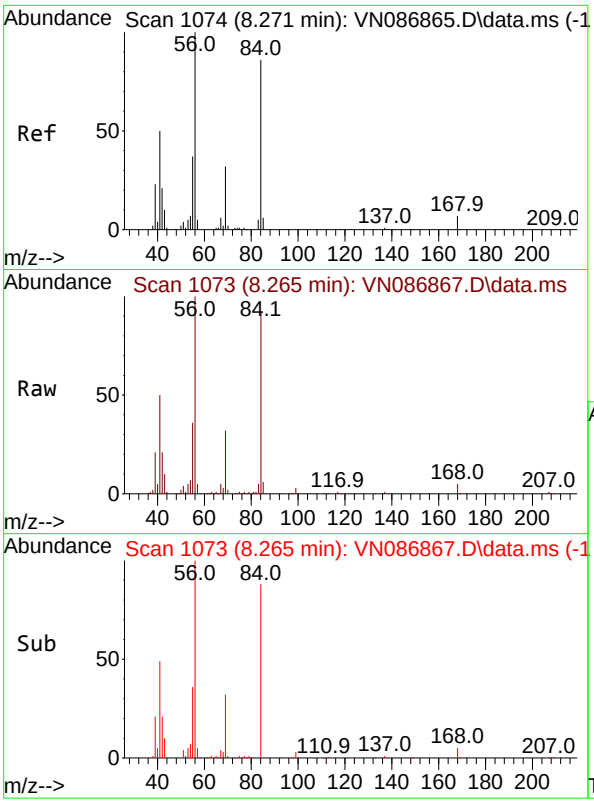


#30
Chloroform
Concen: 138.179 ug/l
RT: 7.976 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 83 Resp: 534038

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.9	79.3



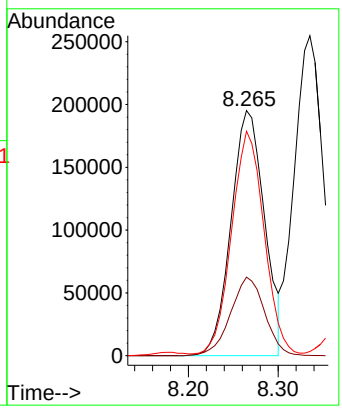


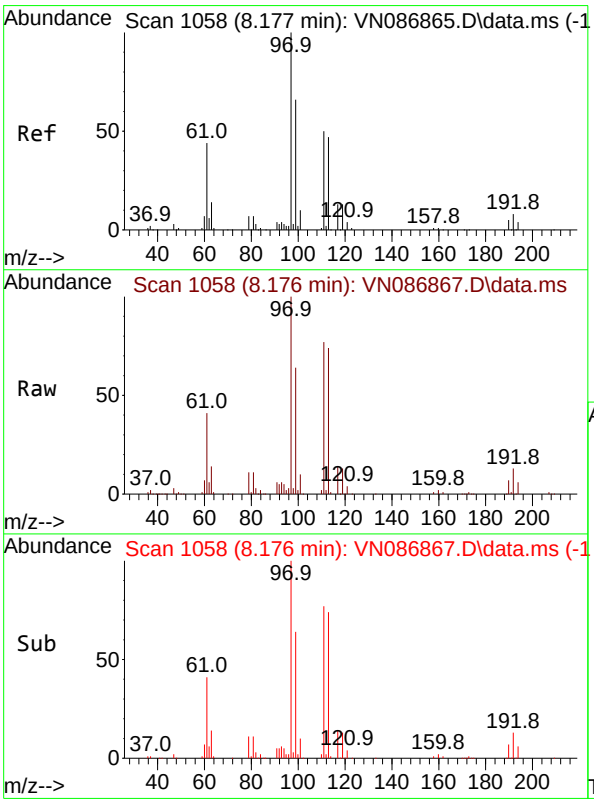
#31
Cyclohexane
Concen: 134.766 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 56 Resp: 505795

Ion	Ratio	Lower	Upper
56	100		
69	32.0	25.4	38.0
84	90.6	68.8	103.2

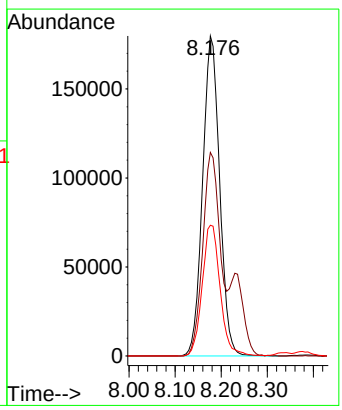


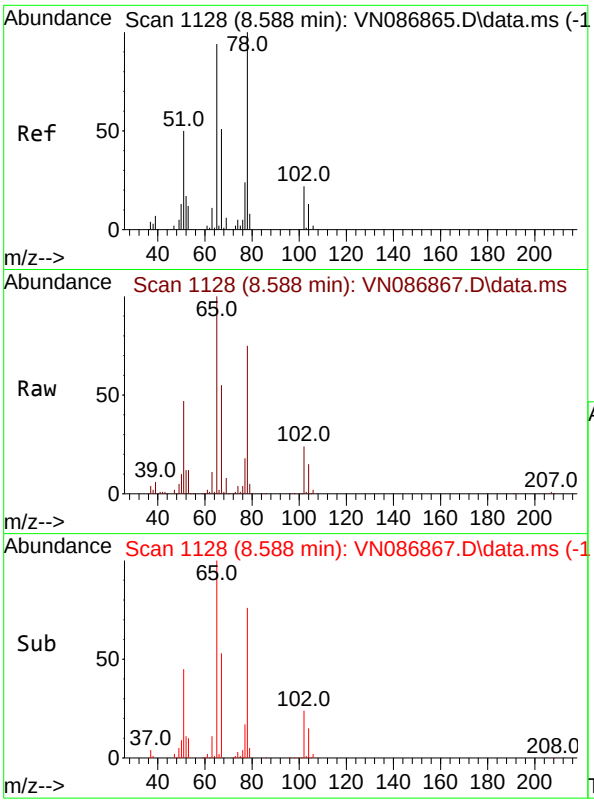


#32
1,1,1-Trichloroethane
Concen: 140.807 ug/l
RT: 8.176 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 97 Resp: 462854

Ion	Ratio	Lower	Upper
97	100		
99	64.9	52.0	78.0
61	43.2	35.9	53.9



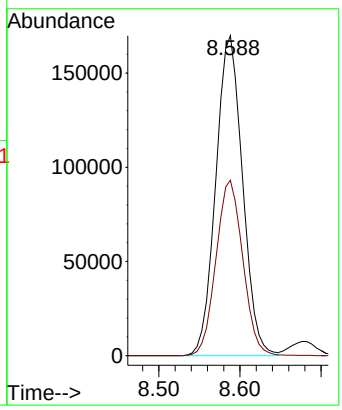


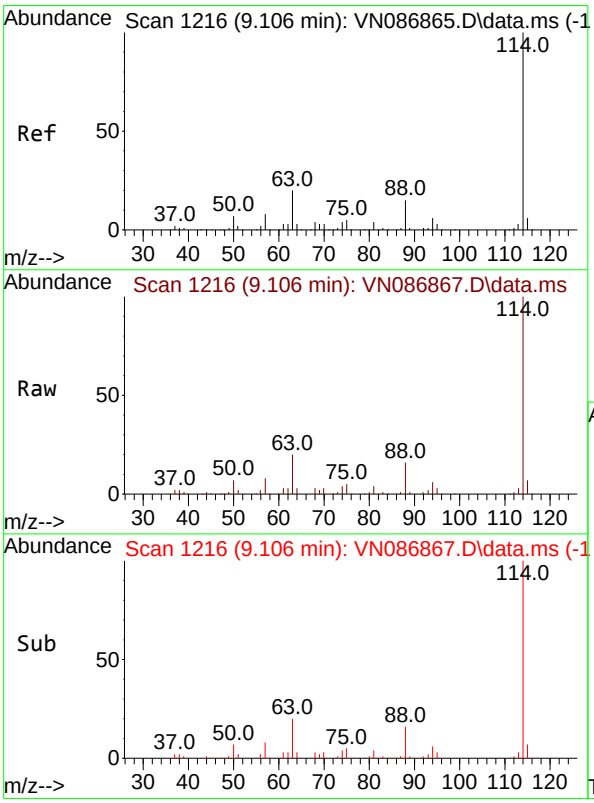
#33
1,2-Dichloroethane-d4
Concen: 168.233 ug/l
RT: 8.588 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 65 Resp: 389297

Ion	Ratio	Lower	Upper
65	100		
67	54.9	0.0	105.6

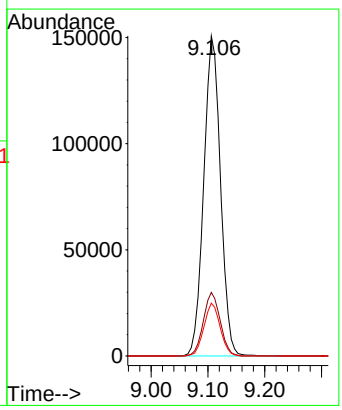


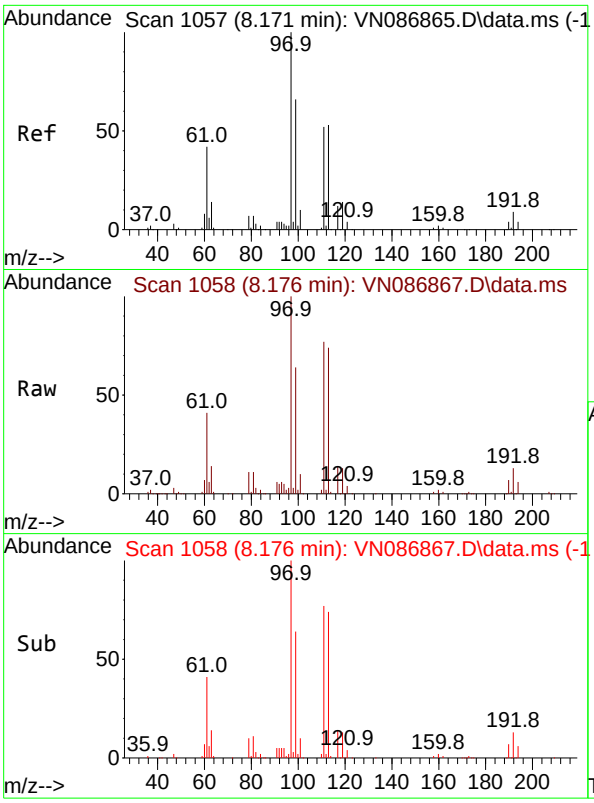


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:114 Resp: 307937

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.6
88	16.5	0.0	30.2



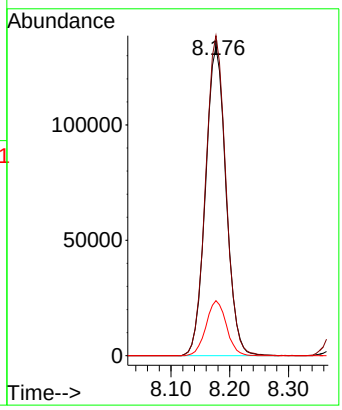


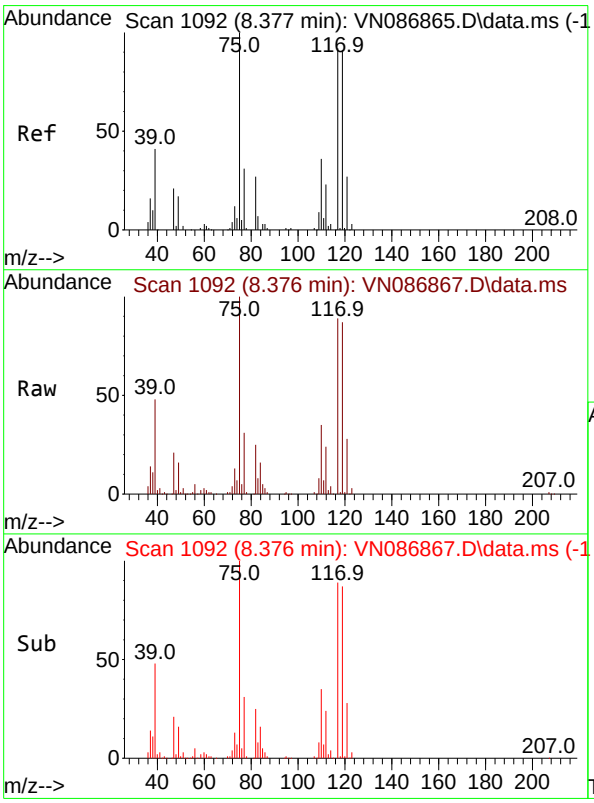
#35
Dibromofluoromethane
Concen: 177.803 ug/l
RT: 8.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:113 Resp: 324474

Ion	Ratio	Lower	Upper
113	100		
111	102.5	84.2	126.2
192	17.7	14.2	21.4

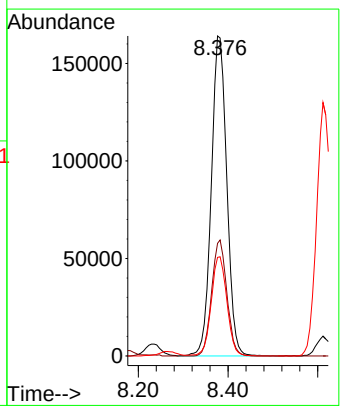


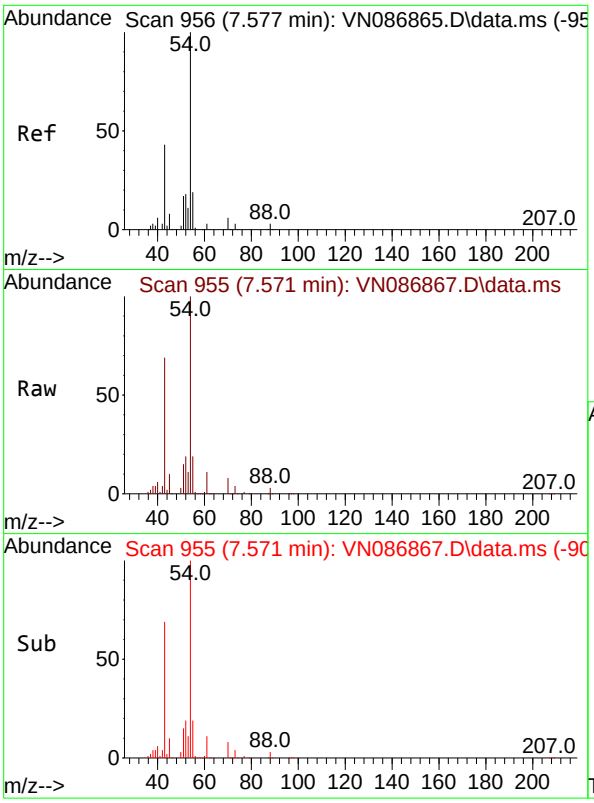


#36
1,1-Dichloropropene
Concen: 144.584 ug/l
RT: 8.376 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 75 Resp: 393166

Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.6	52.9
77	31.4	25.3	37.9



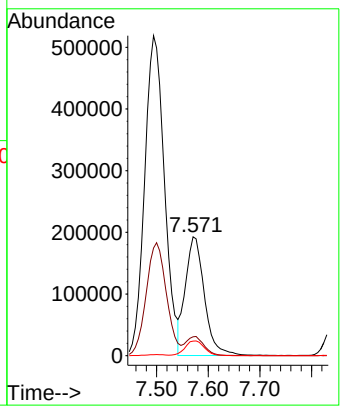


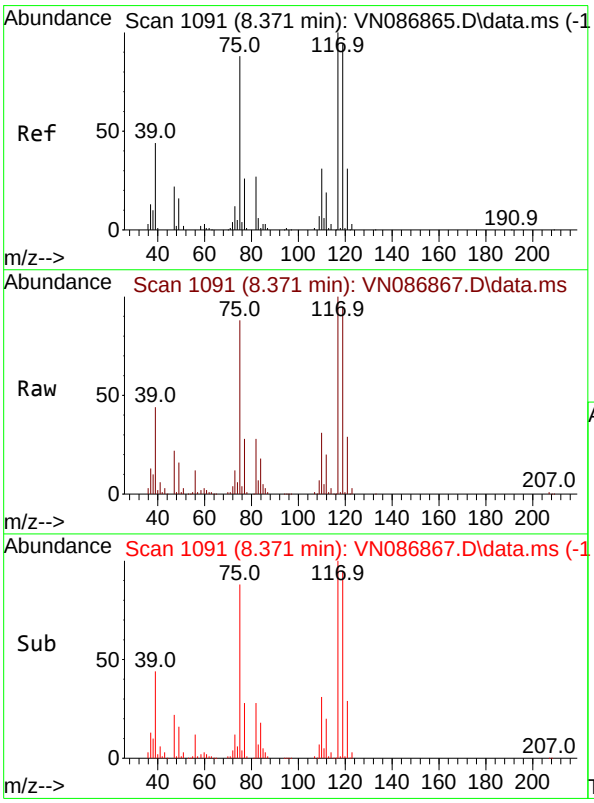
#37
Ethyl Acetate
Concen: 142.706 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 494000

Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.1	18.1
70	12.7	9.8	14.6

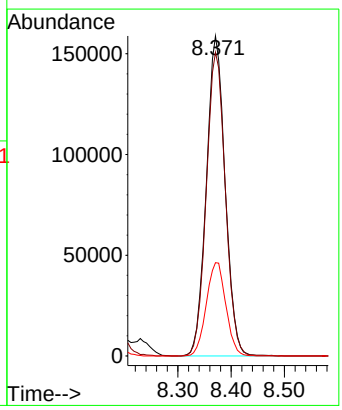


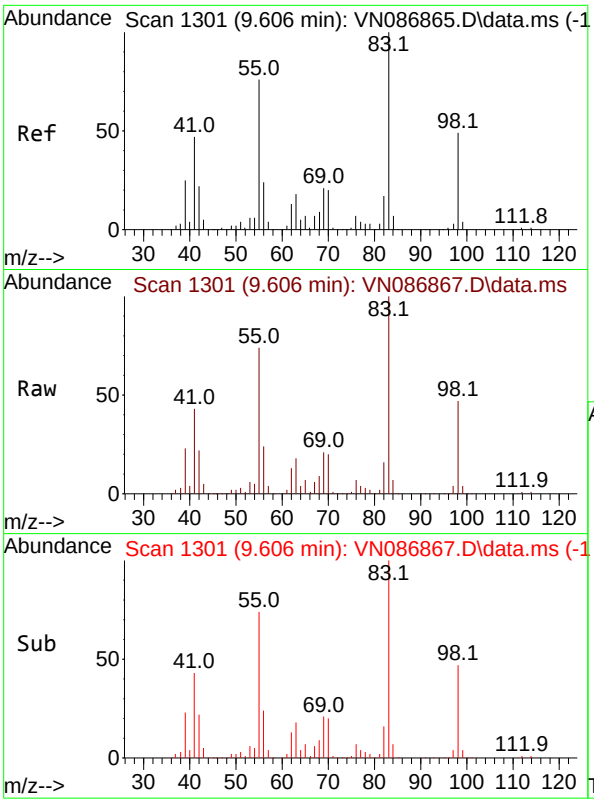


#38
Carbon Tetrachloride
Concen: 145.557 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:117 Resp: 388595

Ion	Ratio	Lower	Upper
117	100		
119	94.9	75.0	112.6
121	29.1	24.9	37.3



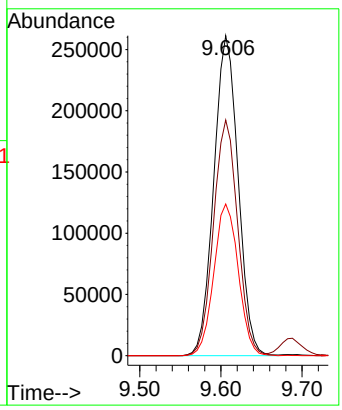


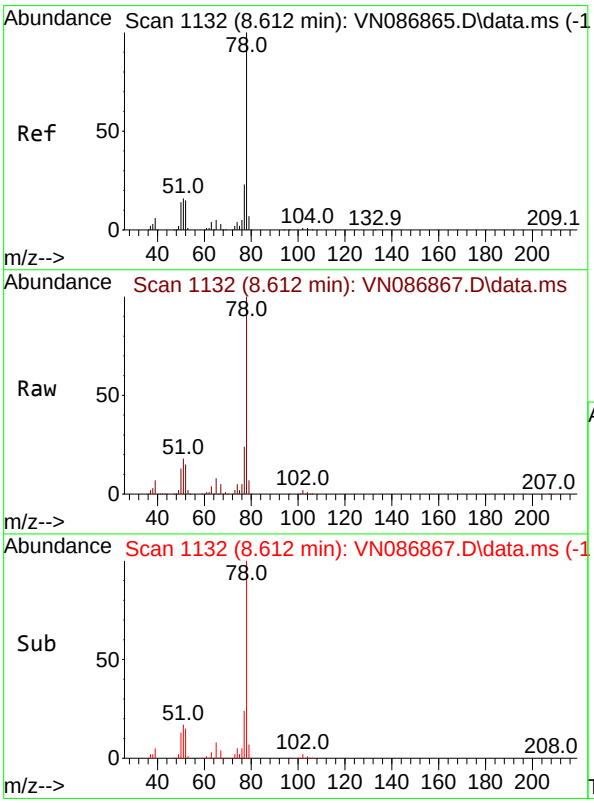
#39
Methylcyclohexane
Concen: 146.136 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 544437

Ion	Ratio	Lower	Upper
83	100		
55	73.6	61.0	91.6
98	47.4	38.9	58.3

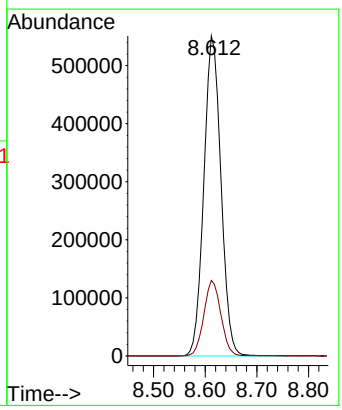


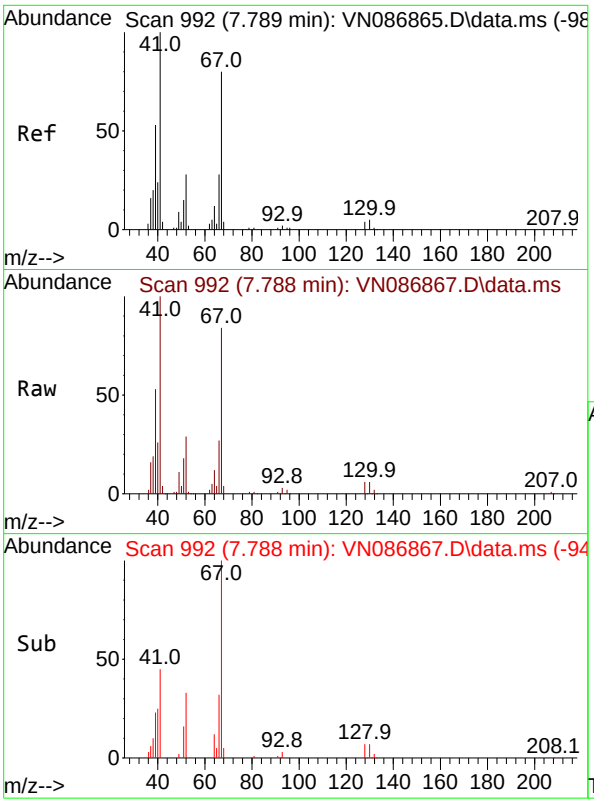


#40
Benzene
Concen: 142.388 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 78 Resp: 1266139

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.7	28.1



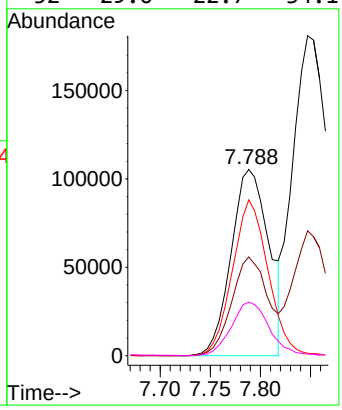


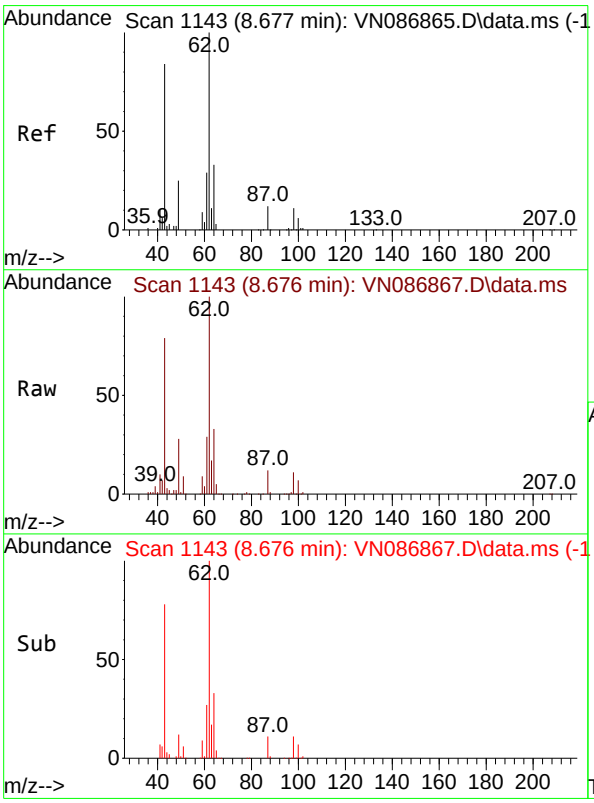
#41
Methacrylonitrile
Concen: 142.174 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 41 Resp: 276400

Ion	Ratio	Lower	Upper
41	100		
39	50.9	41.2	61.8
67	79.4	61.4	92.2
52	29.0	22.7	34.1

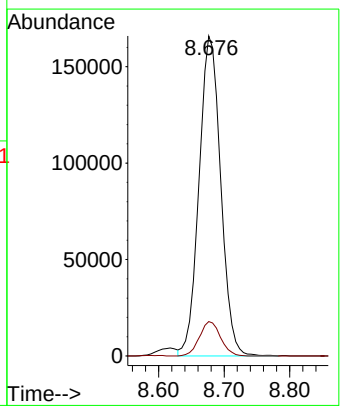


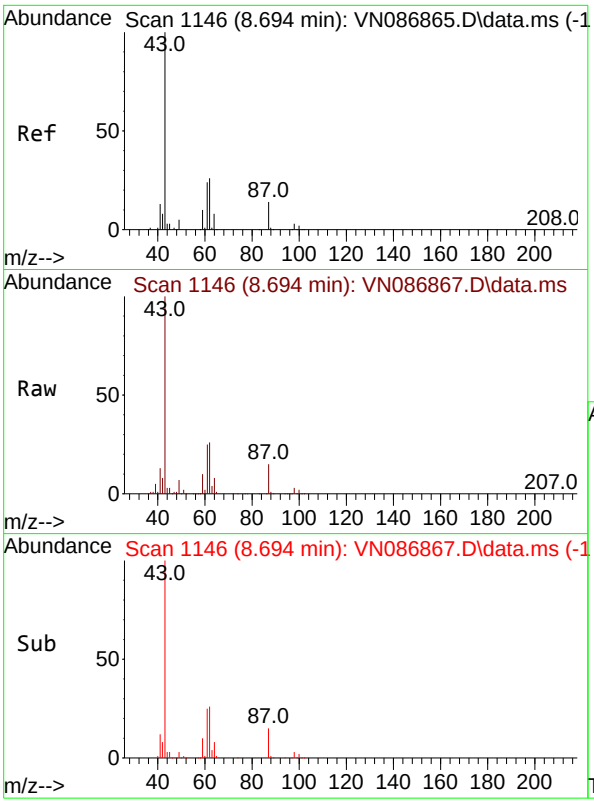


#42
1,2-Dichloroethane
Concen: 141.455 ug/l
RT: 8.676 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 62 Resp: 381516

Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	21.2



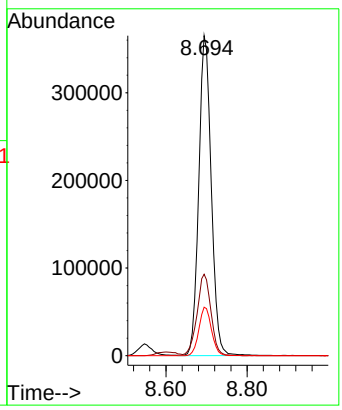


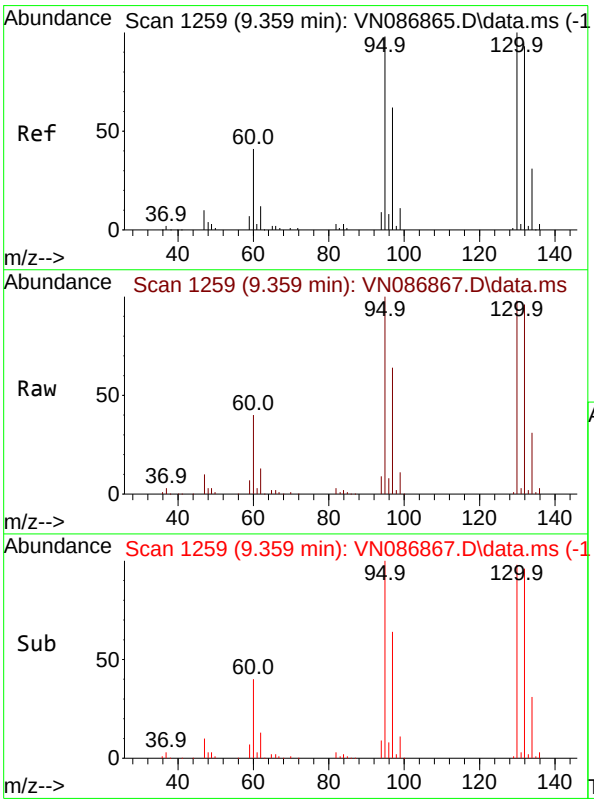
#43
Isopropyl Acetate
Concen: 140.531 ug/l
RT: 8.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 780791

Ion	Ratio	Lower	Upper
43	100		
61	28.3	22.1	33.1
87	15.3	11.8	17.6

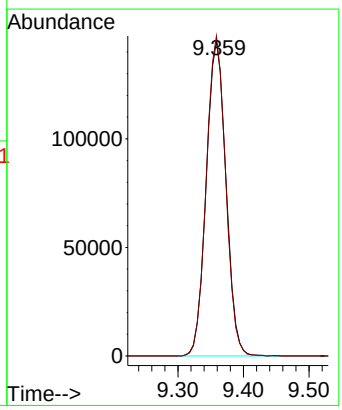


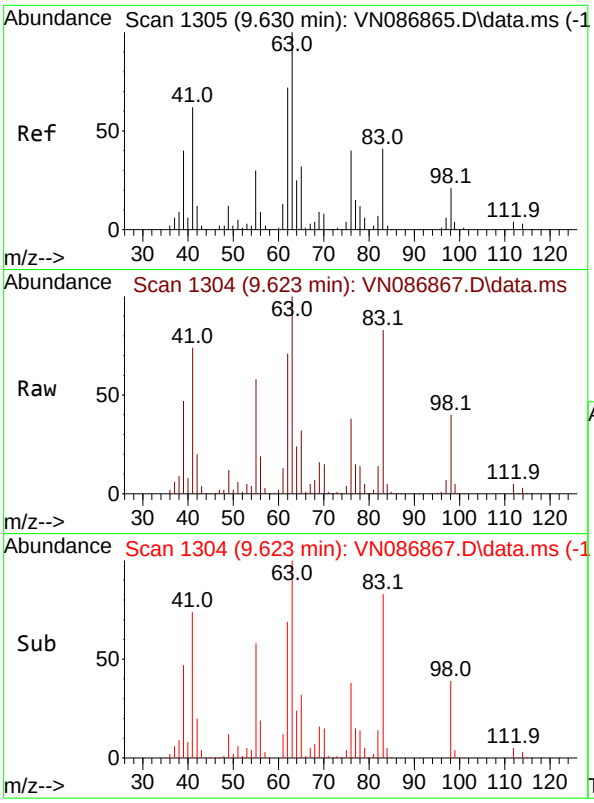


#44
Trichloroethene
Concen: 143.490 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:130 Resp: 302548

Ion	Ratio	Lower	Upper
130	100		
95	101.6	0.0	196.2



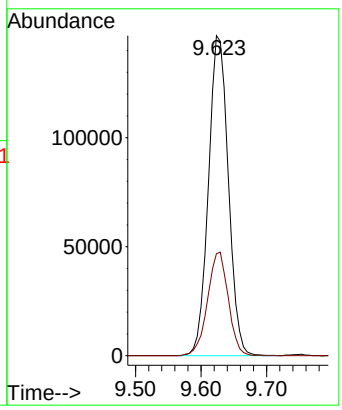


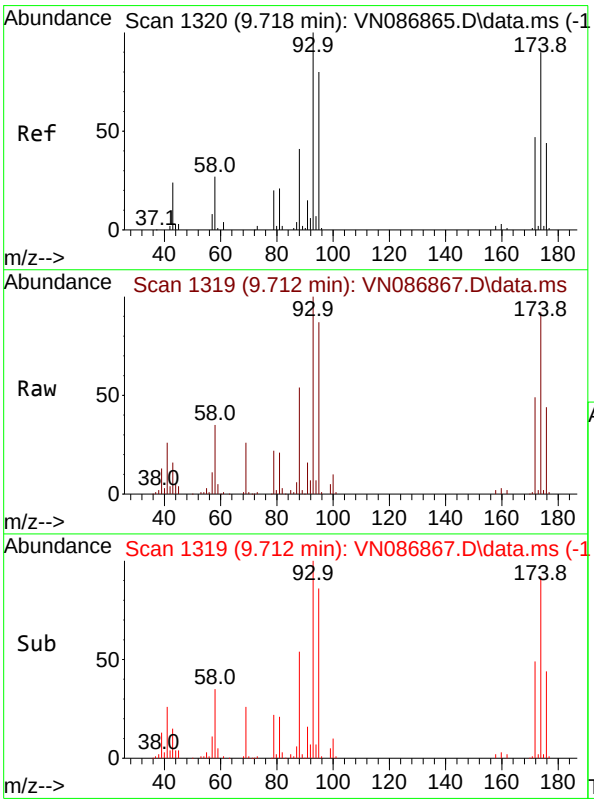
#45
1,2-Dichloropropane
Concen: 142.856 ug/l
RT: 9.623 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 63 Resp: 309047

Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.5	38.3

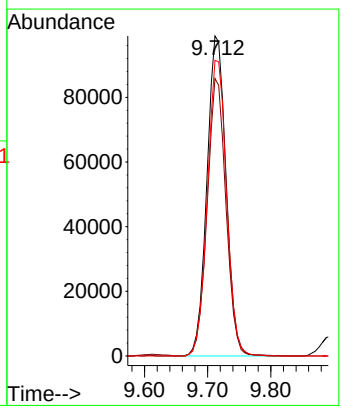


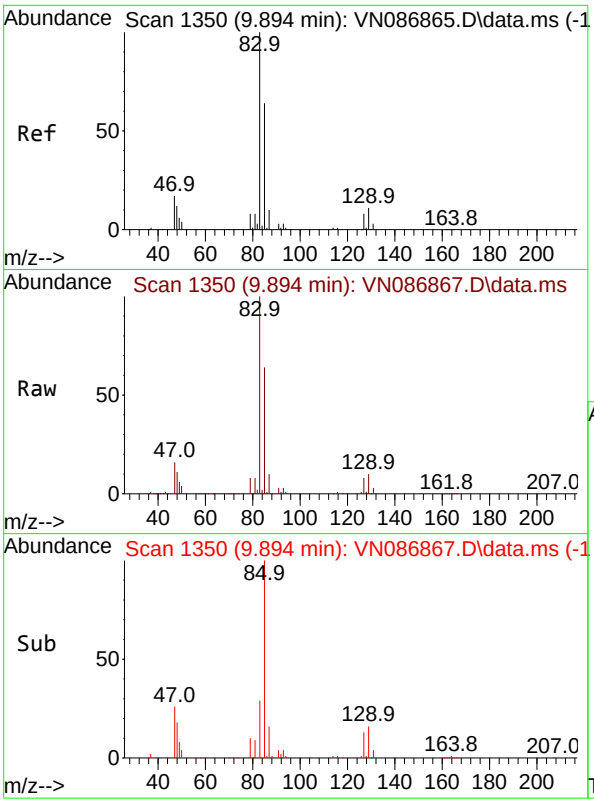


#46
Dibromomethane
Concen: 145.074 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 93 Resp: 208461

Ion	Ratio	Lower	Upper
93	100		
95	84.8	67.1	100.7
174	92.8	74.2	111.4



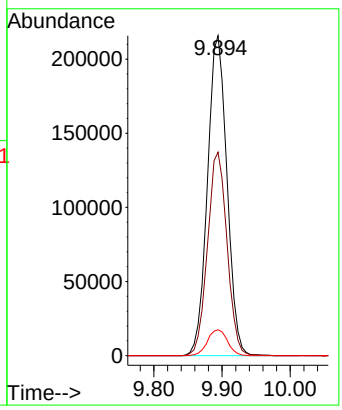


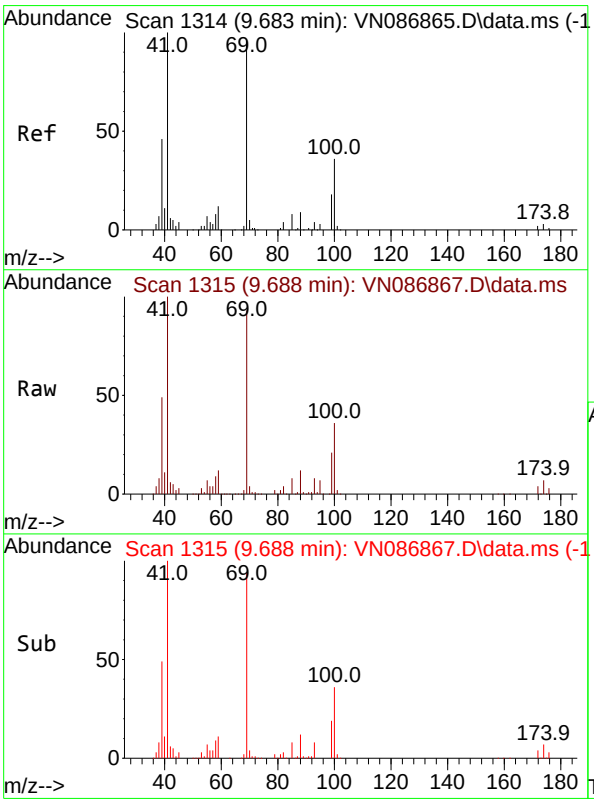
#47
Bromodichloromethane
Concen: 145.449 ug/l
RT: 9.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 430011

Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3
127	8.1	6.6	10.0

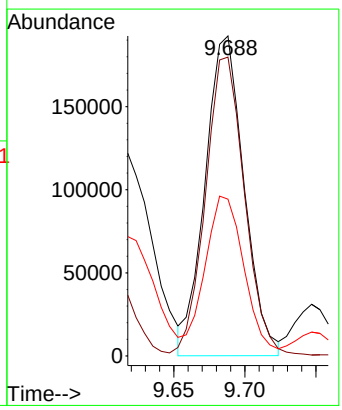


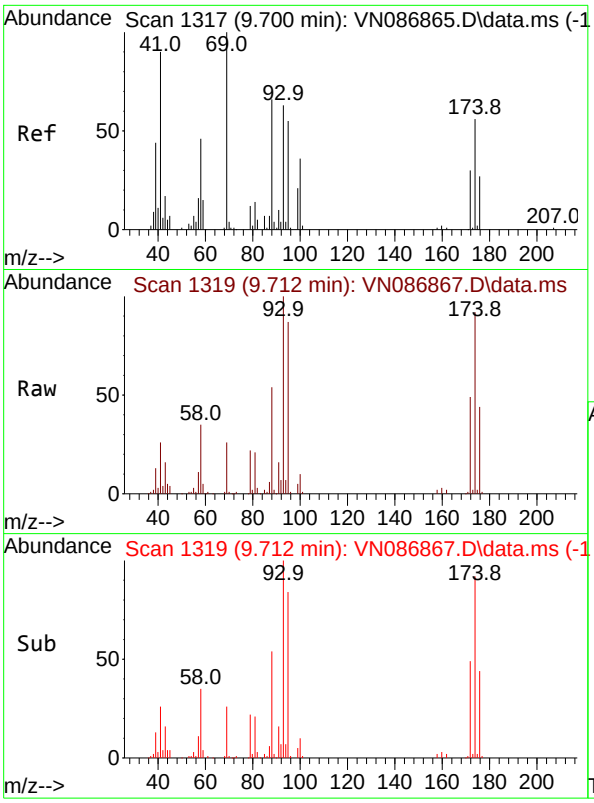


#48
Methyl methacrylate
Concen: 143.502 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 41 Resp: 366967

Ion	Ratio	Lower	Upper
41	100		
69	94.2	74.6	112.0
39	50.8	40.2	60.4



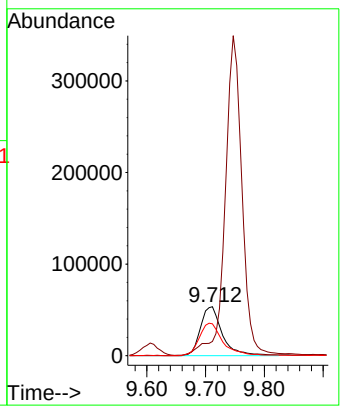


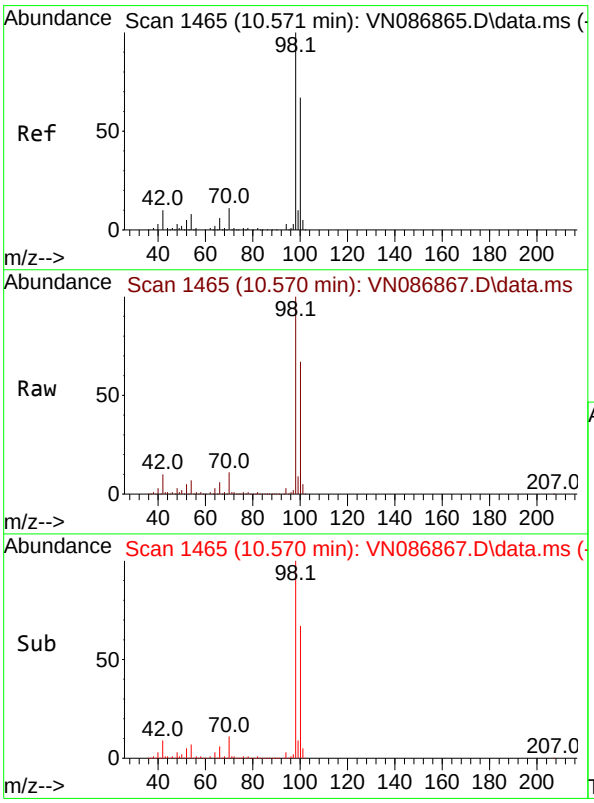
#49
1,4-Dioxane
Concen: 2967.116 ug/l
RT: 9.712 min Scan# 1
Delta R.T. 0.011 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 88 Resp: 138035

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	72.2	57.7	86.5

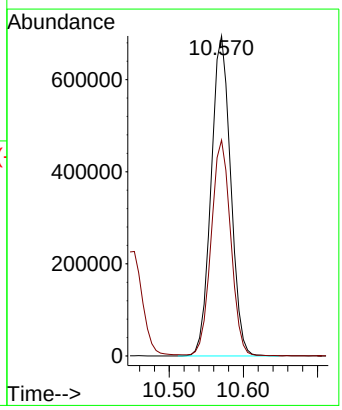


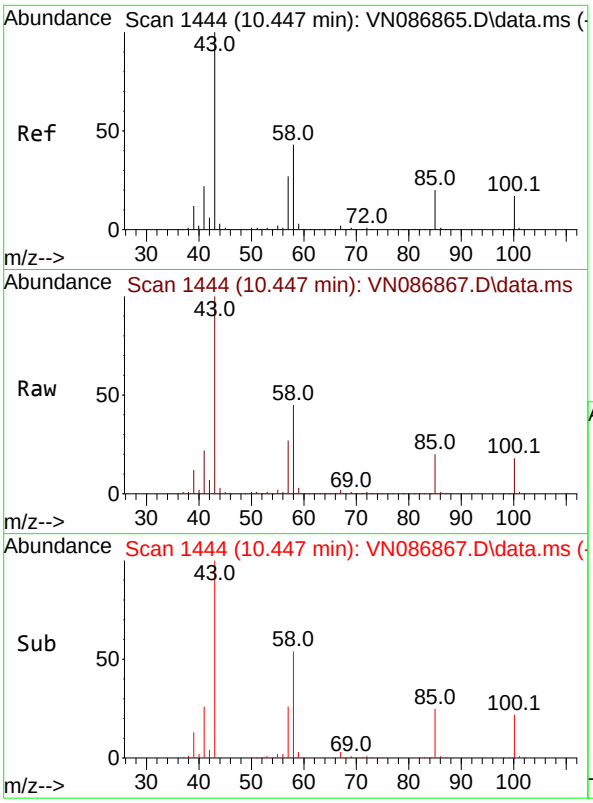


#50
Toluene-d8
Concen: 176.120 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 98 Resp: 1272348

Ion	Ratio	Lower	Upper
98	100		
100	67.5	53.4	80.0



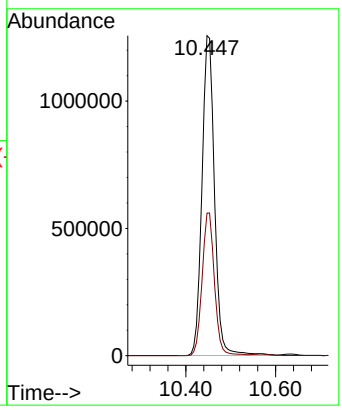


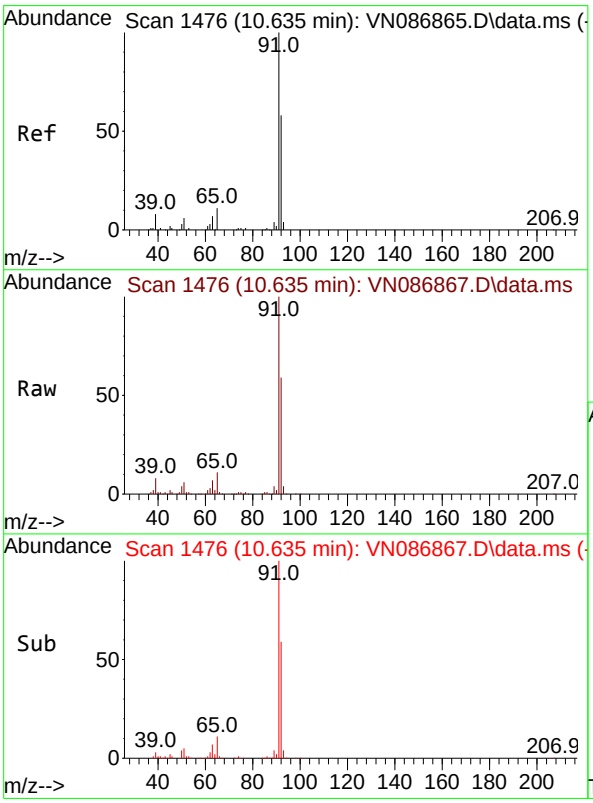
#51
4-Methyl-2-Pentanone
Concen: 728.995 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 2438311

Ion	Ratio	Lower	Upper
43	100		
58	44.0	34.2	51.4

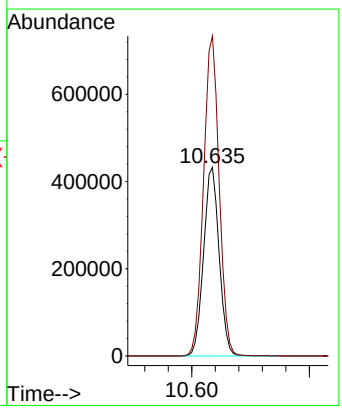


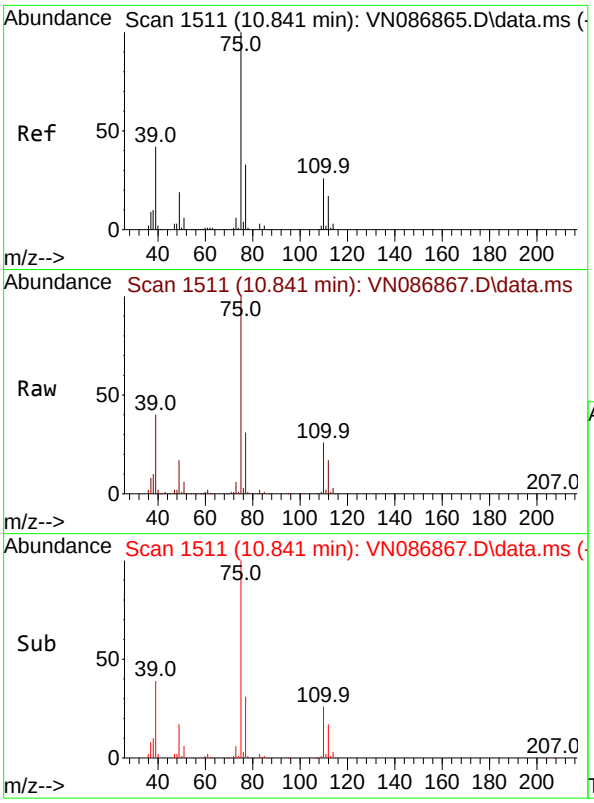


#52
Toluene
Concen: 145.976 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 92 Resp: 793270

Ion	Ratio	Lower	Upper
92	100		
91	170.2	136.5	204.7



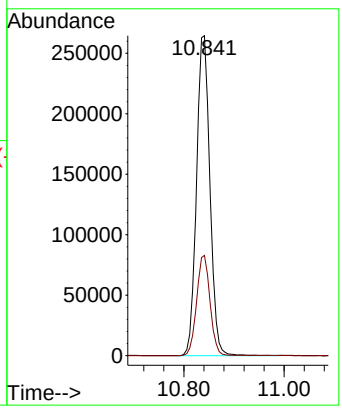


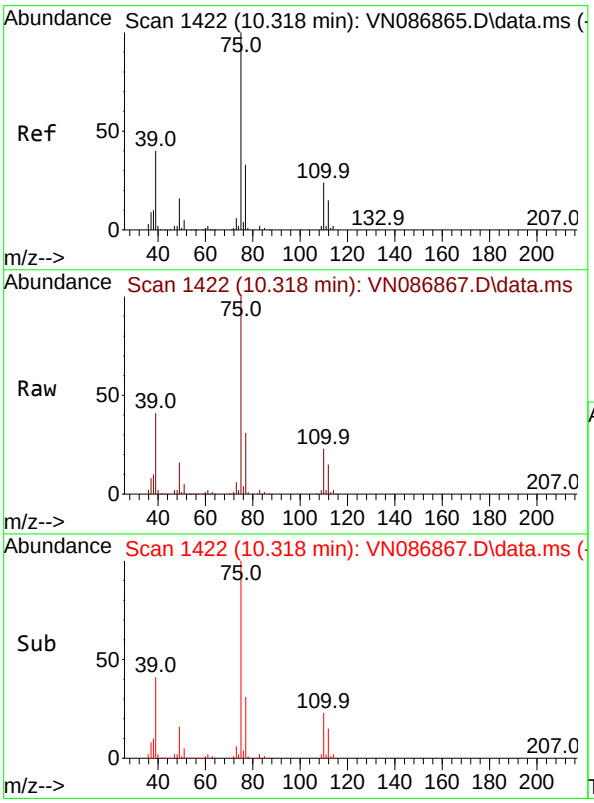
#53
t-1,3-Dichloropropene
Concen: 148.163 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 489809

Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.4	39.6

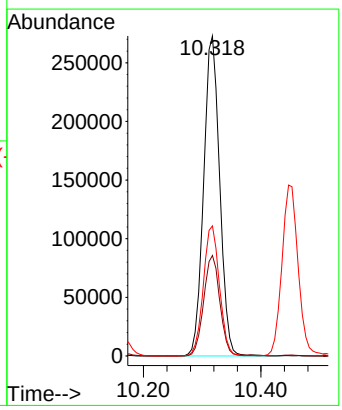


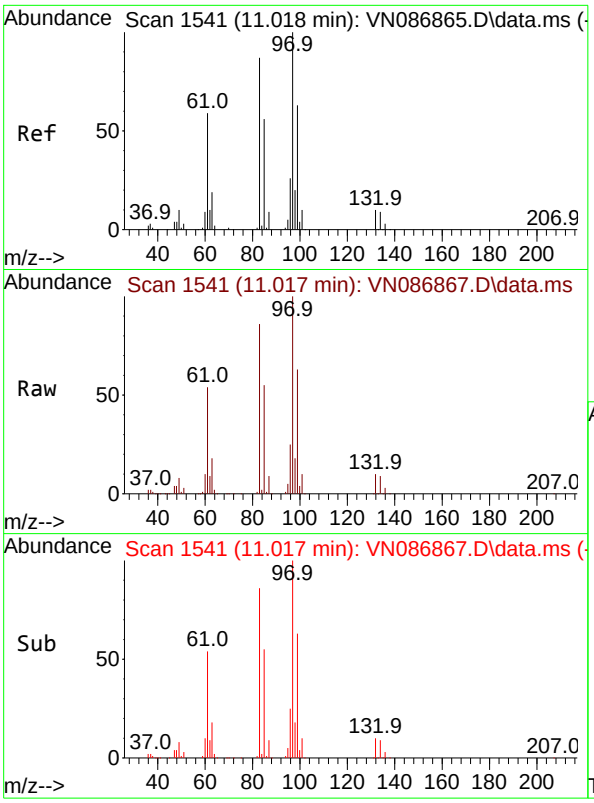


#54
cis-1,3-Dichloropropene
Concen: 146.469 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 75 Resp: 518092

Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.2	39.4
39	40.6	32.3	48.5



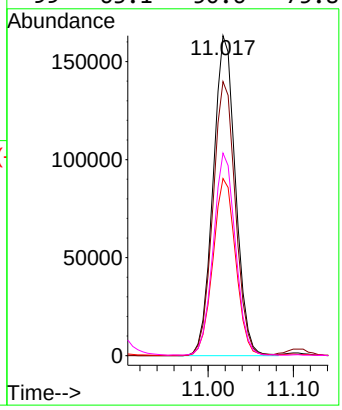


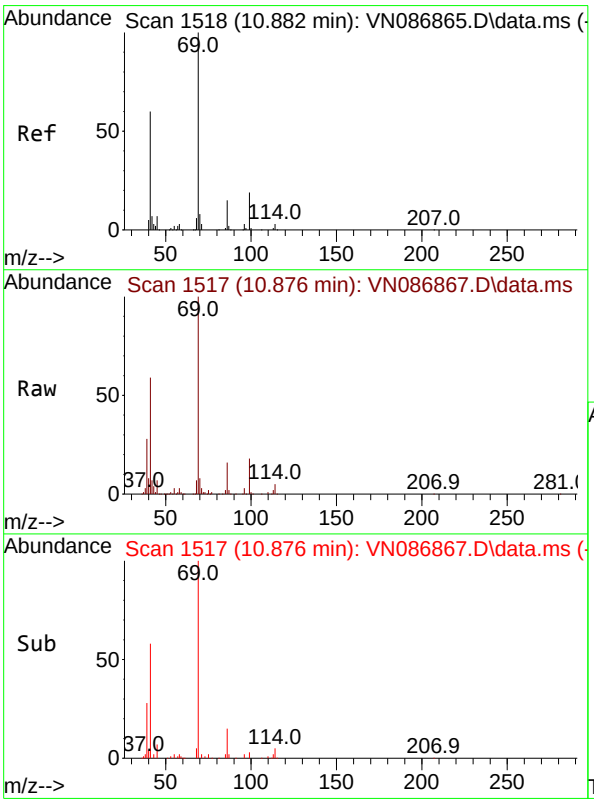
#55
1,1,2-Trichloroethane
Concen: 142.588 ug/l
RT: 11.017 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 97 Resp: 298151

Ion	Ratio	Lower	Upper
97	100		
83	85.6	69.7	104.5
85	55.2	45.1	67.7
99	63.1	50.6	75.8

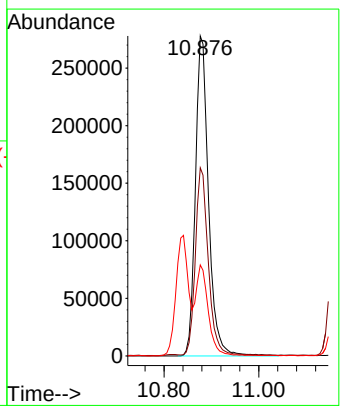


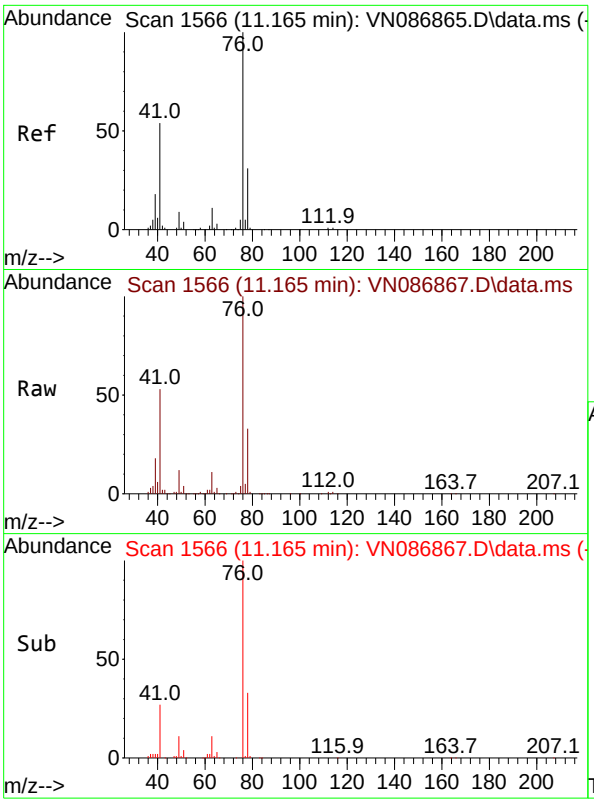


#56
Ethyl methacrylate
Concen: 160.311 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 69 Resp: 533912

Ion	Ratio	Lower	Upper
69	100		
41	57.5	47.2	70.8
39	27.0	23.0	34.6



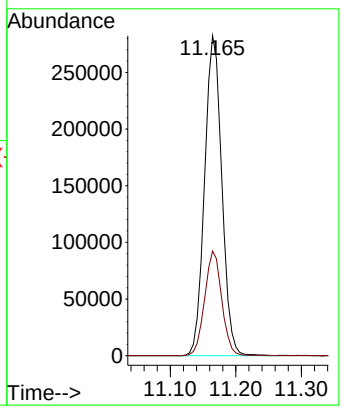


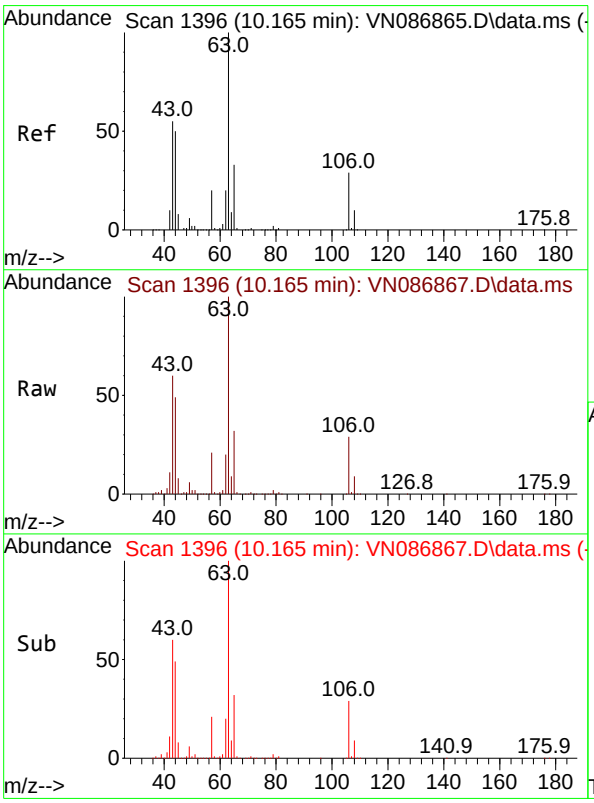
#57
1,3-Dichloropropane
Concen: 142.363 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 516391

Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.3	37.9

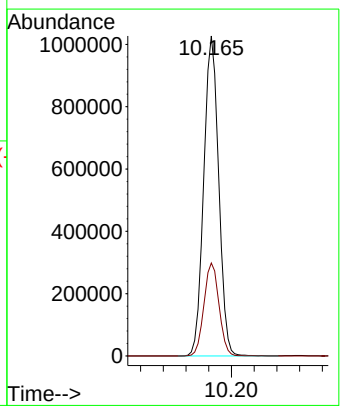


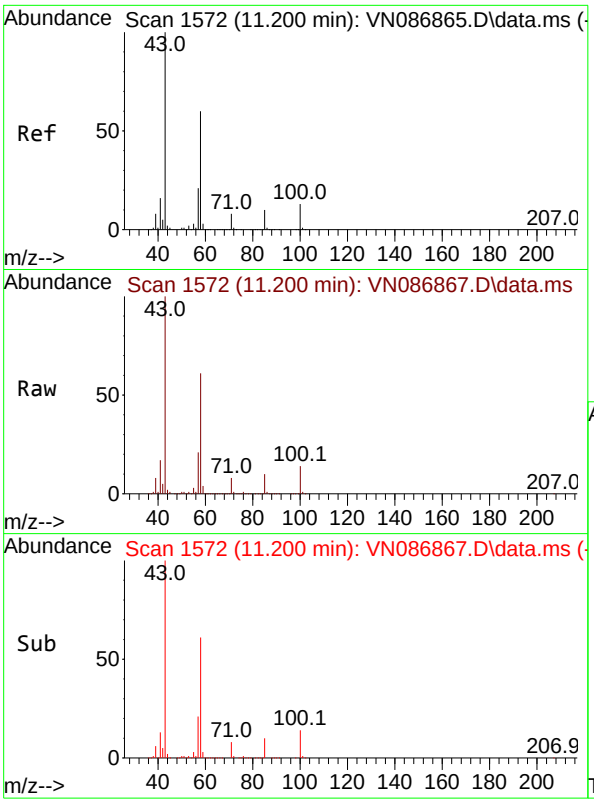


#58
2-Chloroethyl Vinyl ether
Concen: 941.147 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 63 Resp: 1869543

Ion	Ratio	Lower	Upper
63	100		
106	29.2	23.0	34.6



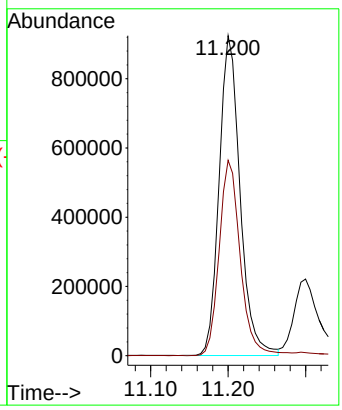


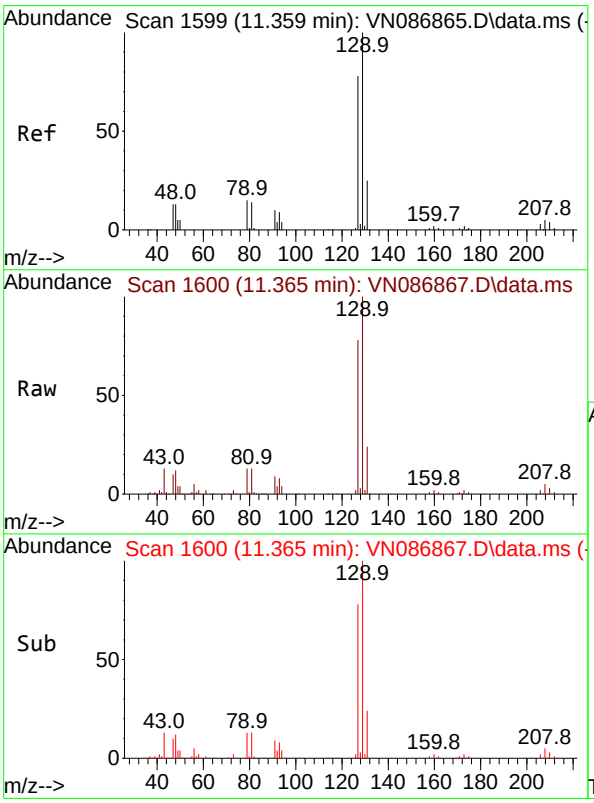
#59
2-Hexanone
Concen: 805.662 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 1735777

Ion	Ratio	Lower	Upper
43	100		
58	61.6	30.4	91.3

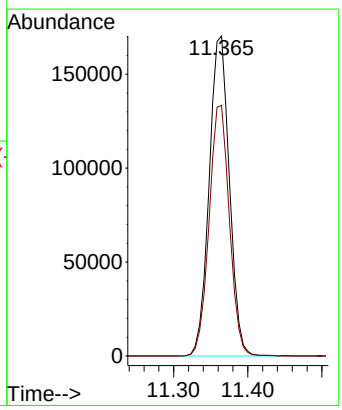


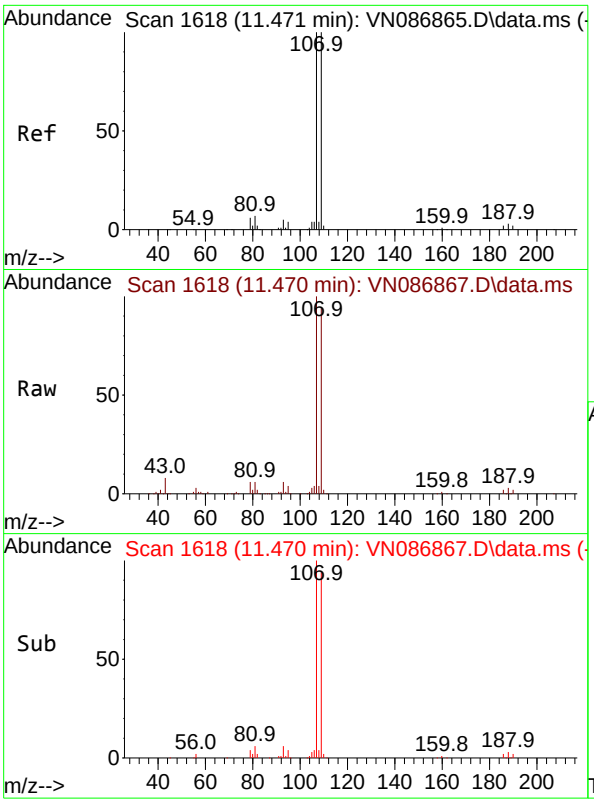


#60
Dibromochloromethane
Concen: 147.832 ug/l
RT: 11.365 min Scan# 1600
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:129 Resp: 322064

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.6	115.8



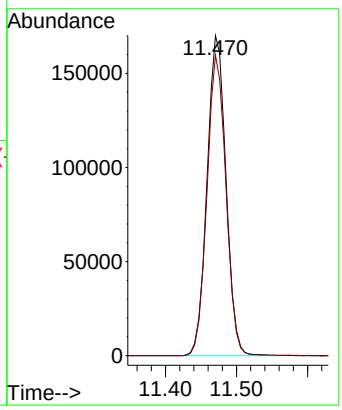


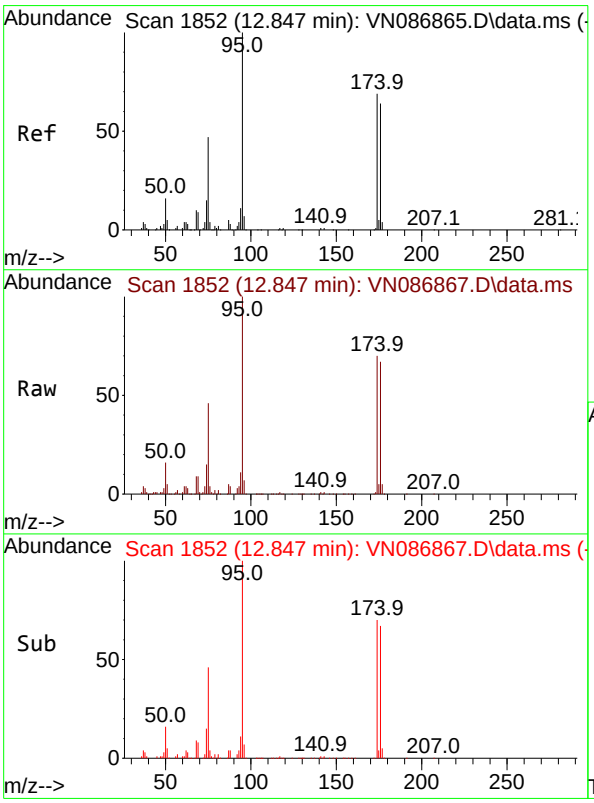
#61
1,2-Dibromoethane
Concen: 146.790 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 314606

Ion	Ratio	Lower	Upper
107	100		
109	94.0	76.3	114.5

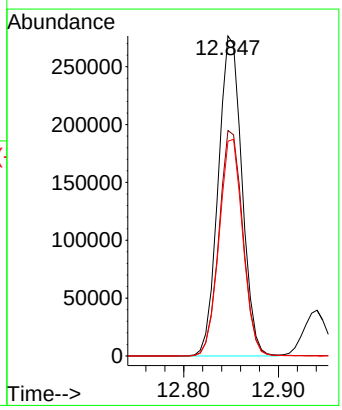


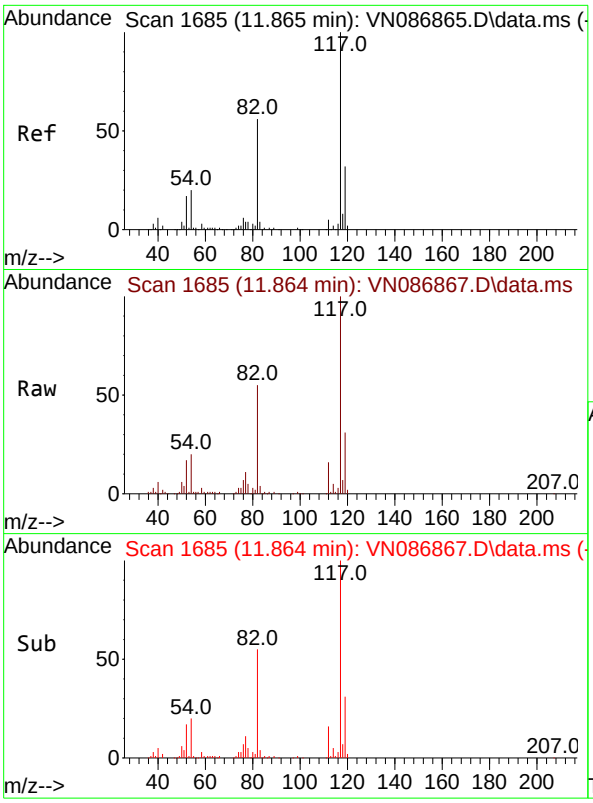


#62
4-Bromofluorobenzene
Concen: 179.364 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 95 Resp: 481421

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	141.8
176	67.8	0.0	132.6



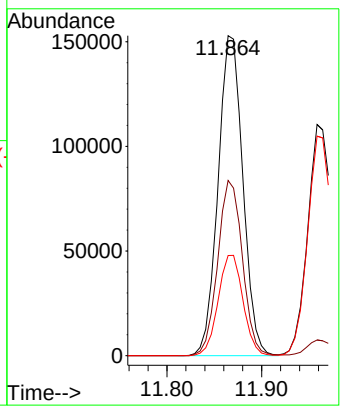


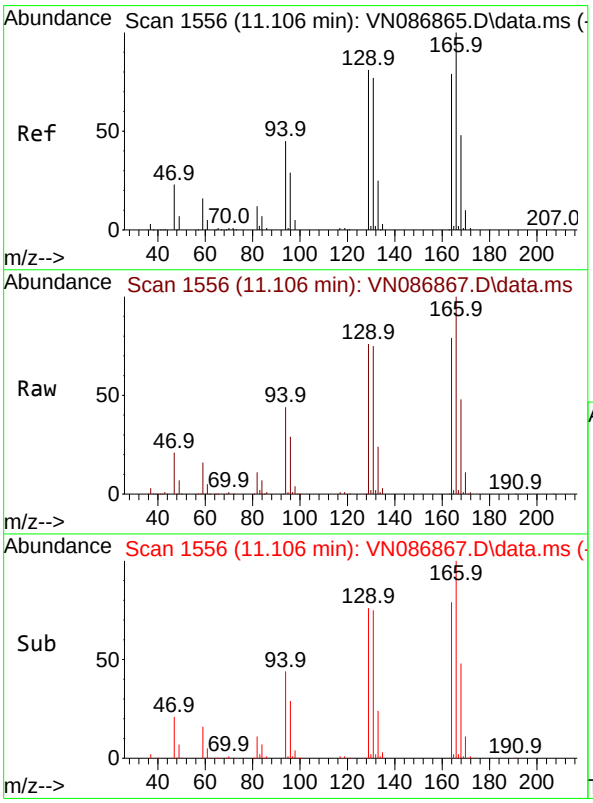
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.864 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 278552

Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.6	67.0
119	31.3	25.5	38.3

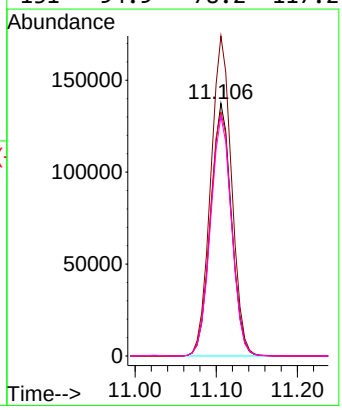


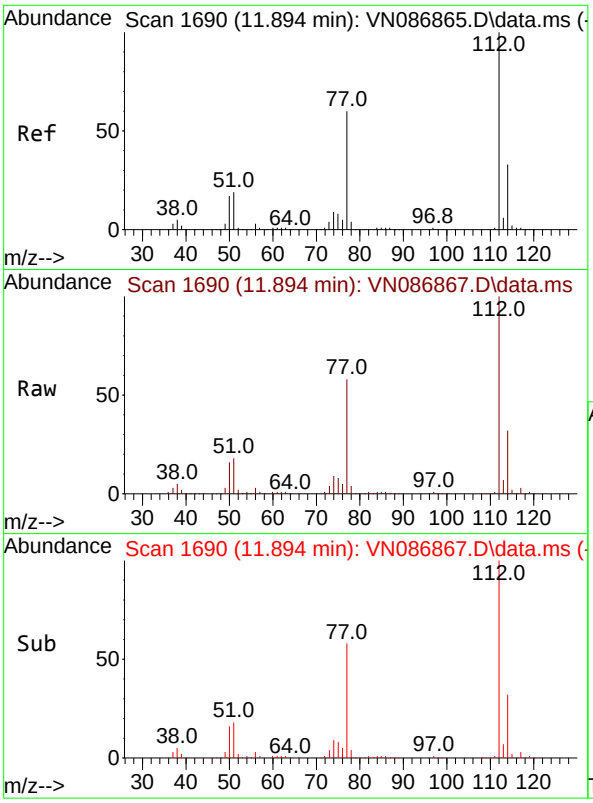


#64
Tetrachloroethene
Concen: 139.048 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:164 Resp: 245122

Ion	Ratio	Lower	Upper
164	100		
166	126.7	101.8	152.8
129	96.6	83.0	124.4
131	94.9	78.2	117.2



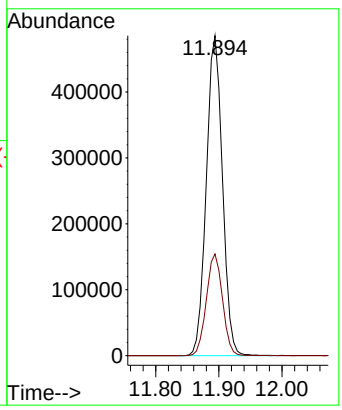


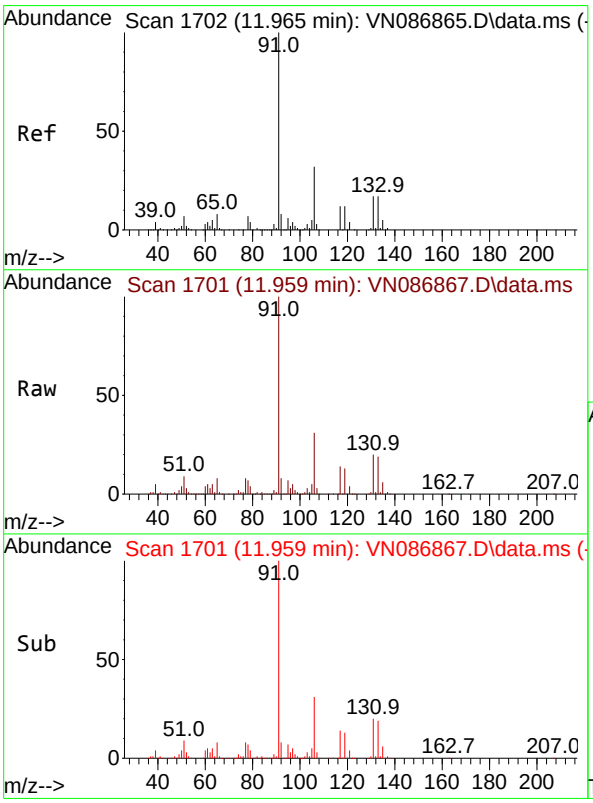
#65
Chlorobenzene
Concen: 140.041 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 860345

Ion	Ratio	Lower	Upper
112	100		
114	31.8	26.2	39.2

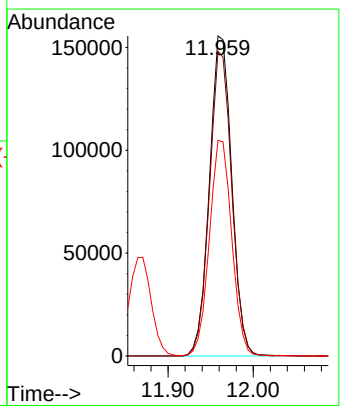


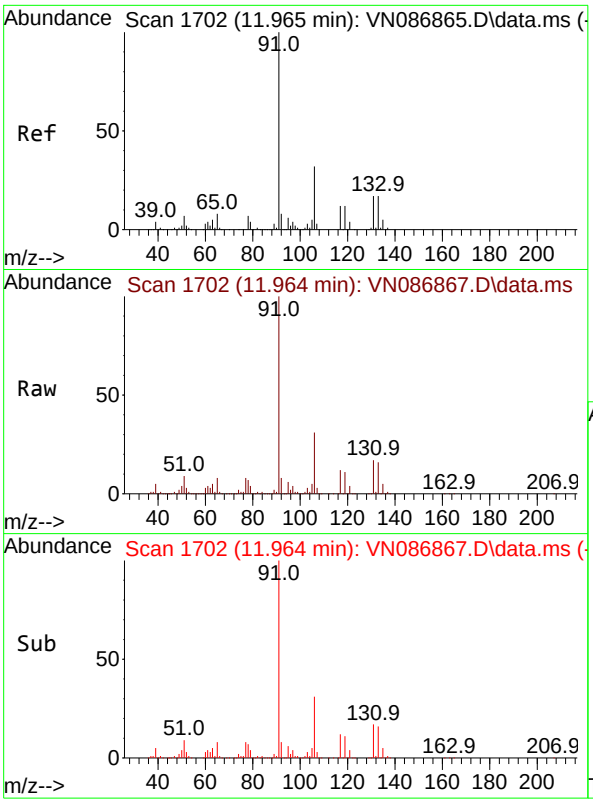


#66
1,1,1,2-Tetrachloroethane
Concen: 143.171 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:131 Resp: 282739

Ion	Ratio	Lower	Upper
131	100		
133	95.2	48.3	144.8
119	67.8	34.0	101.8



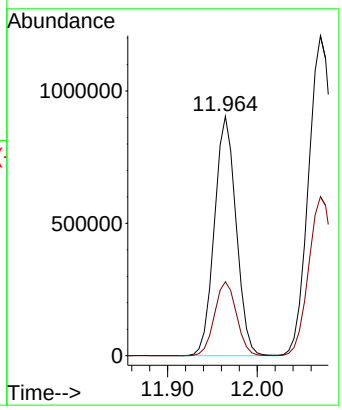


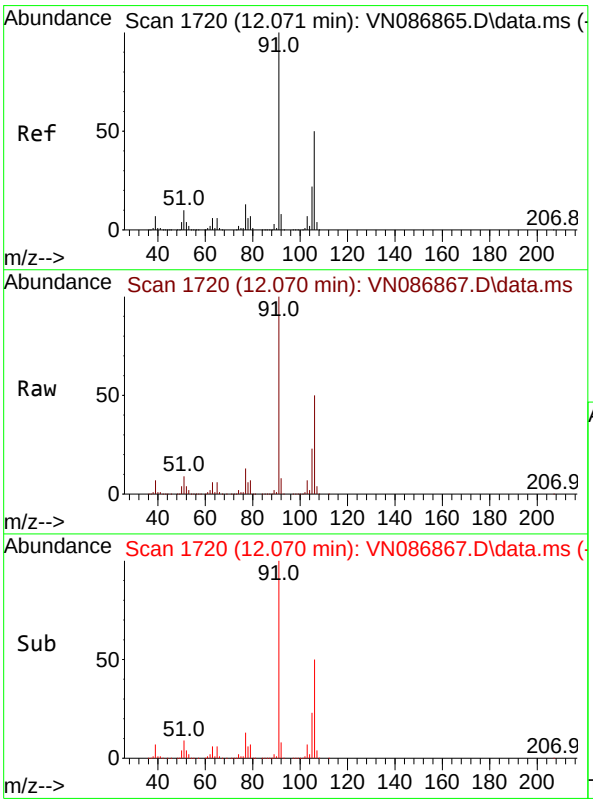
#67
Ethyl Benzene
Concen: 143.438 ug/l
RT: 11.964 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1517883

Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.4	38.2

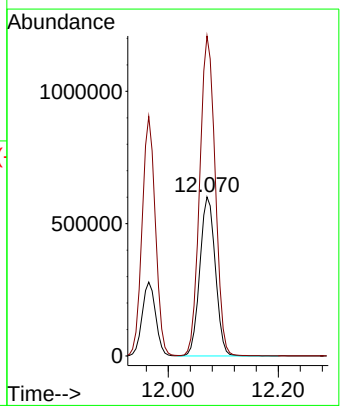


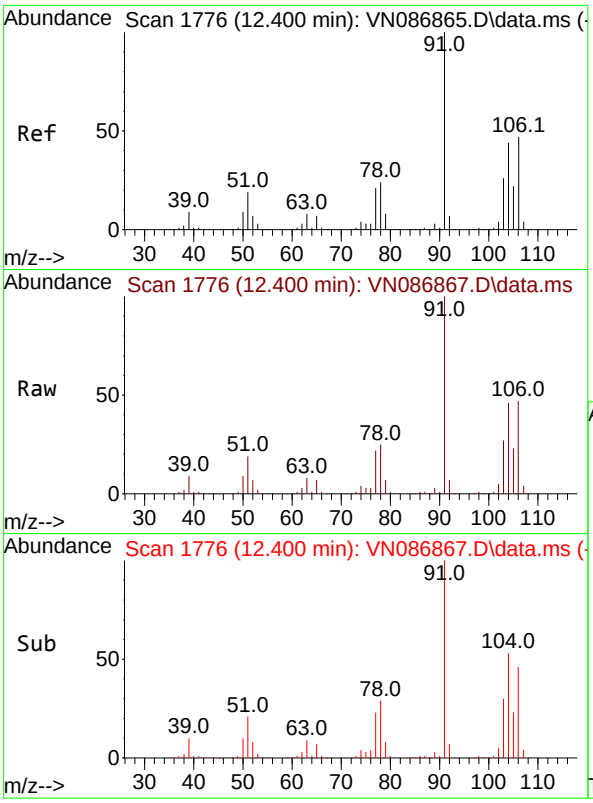


#68
m/p-Xylenes
Concen: 290.155 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:106 Resp: 1175378

Ion	Ratio	Lower	Upper
106	100		
91	200.8	159.4	239.0



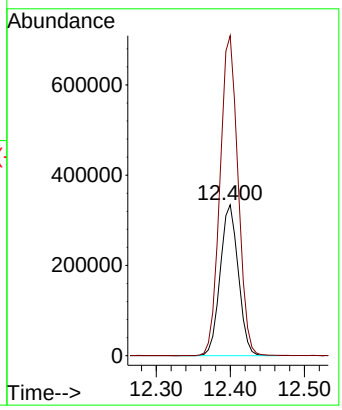


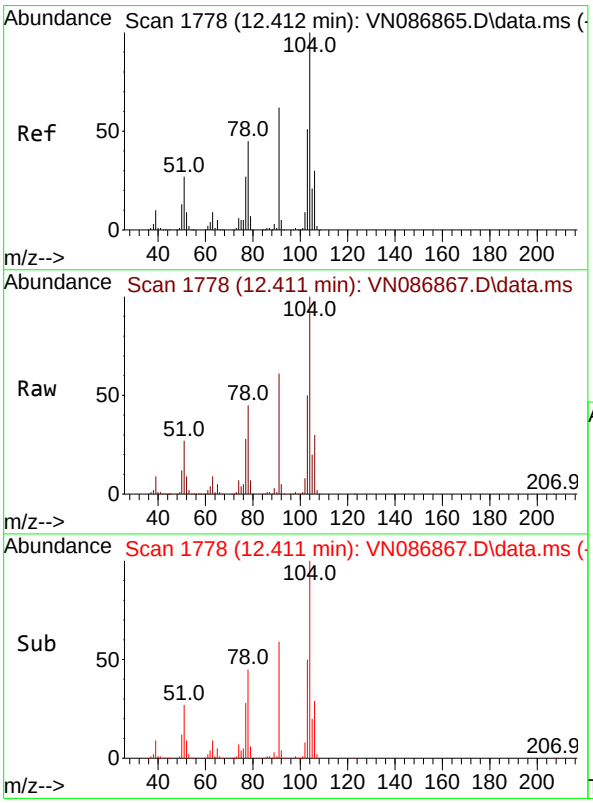
#69
o-Xylene
Concen: 145.966 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 566301

Ion	Ratio	Lower	Upper
106	100		
91	211.9	106.1	318.1

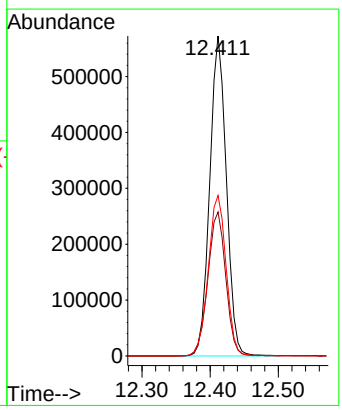


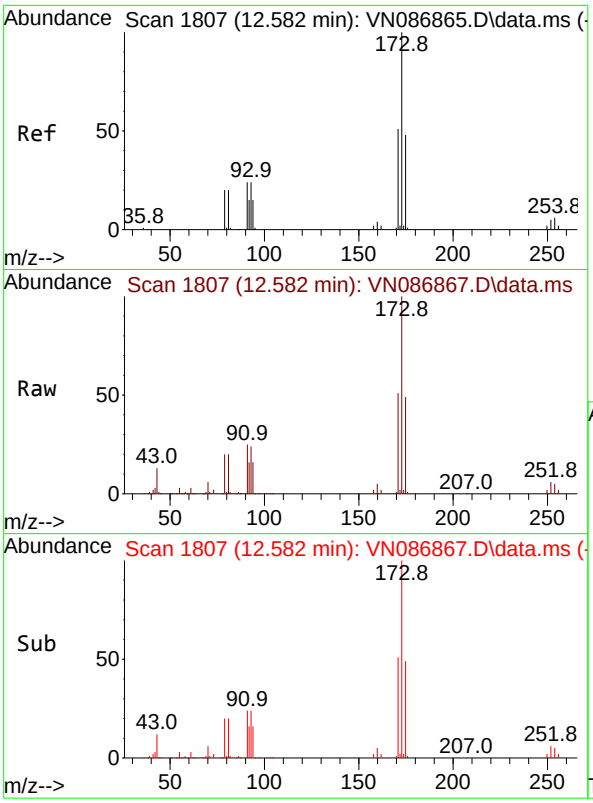


#70
Styrene
Concen: 146.459 ug/l
RT: 12.411 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:104 Resp: 972318

Ion	Ratio	Lower	Upper
104	100		
78	48.4	38.5	57.7
103	54.0	43.1	64.7



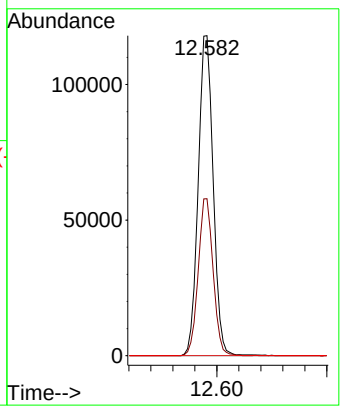


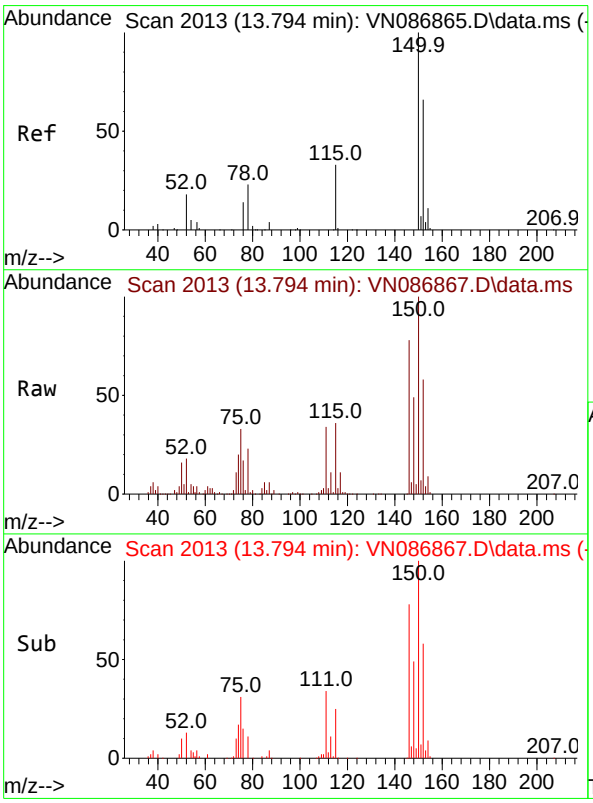
#71
Bromoform
Concen: 152.538 ug/l
RT: 12.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:173 Resp: 223200

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.1	72.4
254	0.0	0.0	0.0

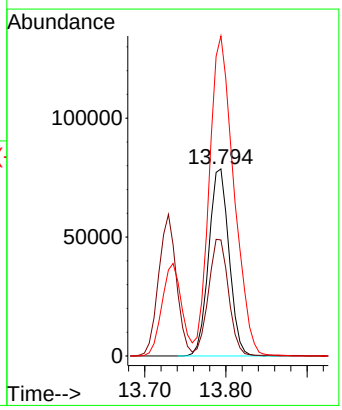


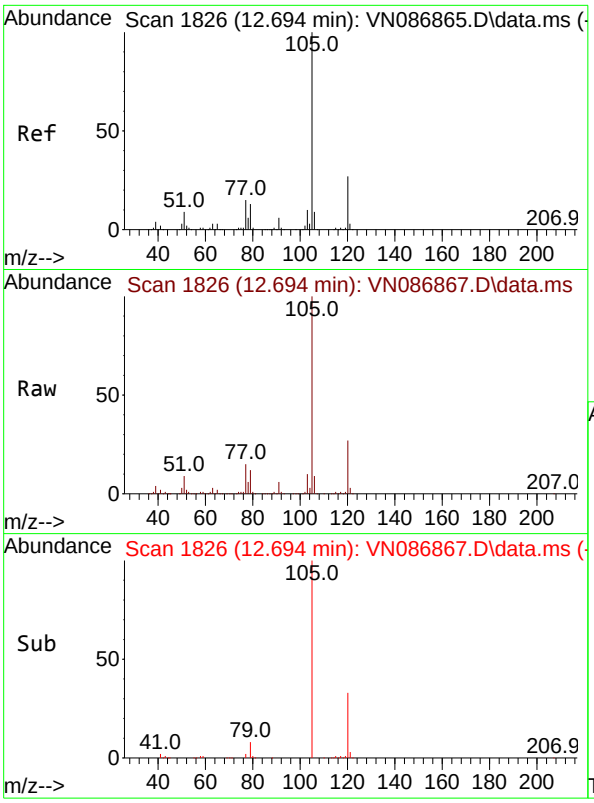


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:152 Resp: 136630

Ion	Ratio	Lower	Upper
152	100		
115	61.1	30.1	90.5
150	206.7	0.0	345.0



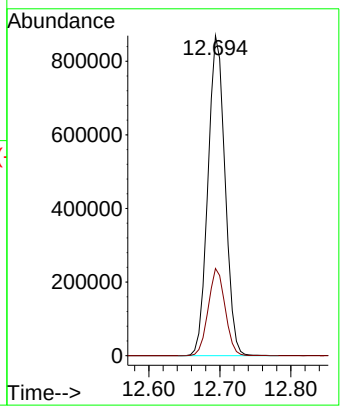


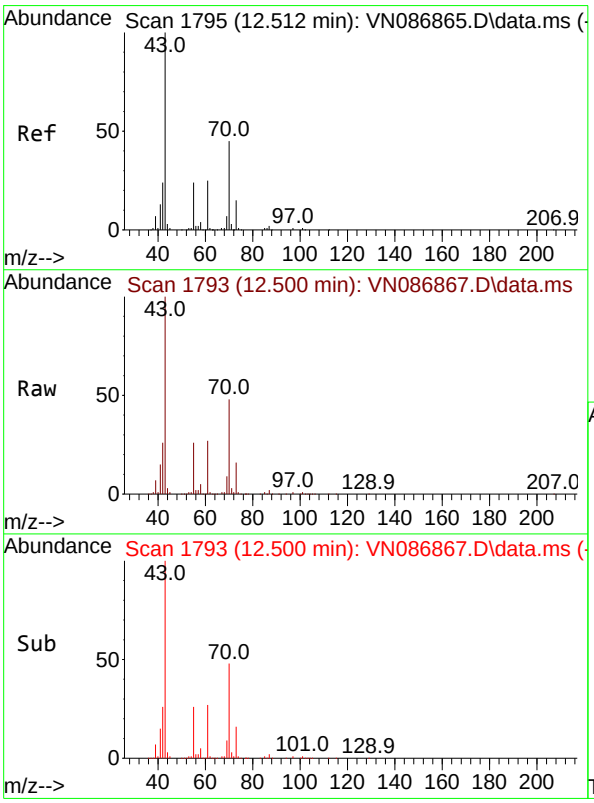
#73
Isopropylbenzene
Concen: 146.042 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1453651

Ion	Ratio	Lower	Upper
105	100		
120	26.9	13.5	40.4

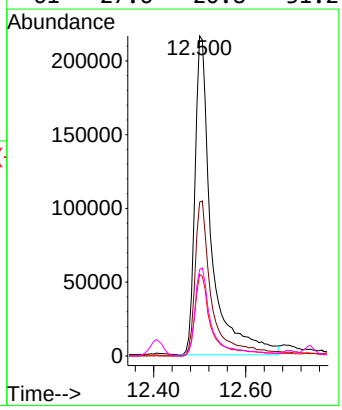


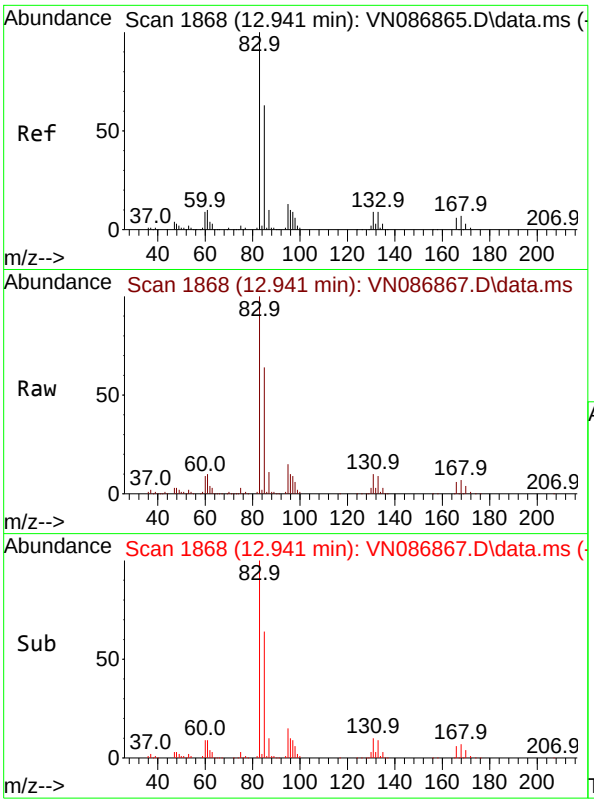


#74
N-amyl acetate
Concen: 164.596 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. -0.012 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 43 Resp: 543747

Ion	Ratio	Lower	Upper
43	100		
70	50.0	37.6	56.4
55	26.1	19.0	28.6
61	27.6	20.8	31.2



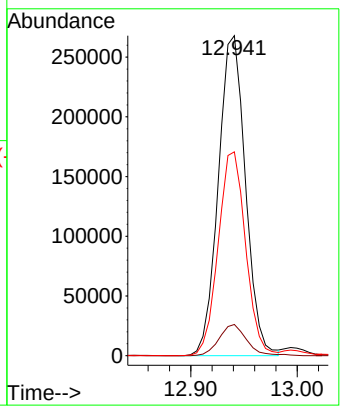


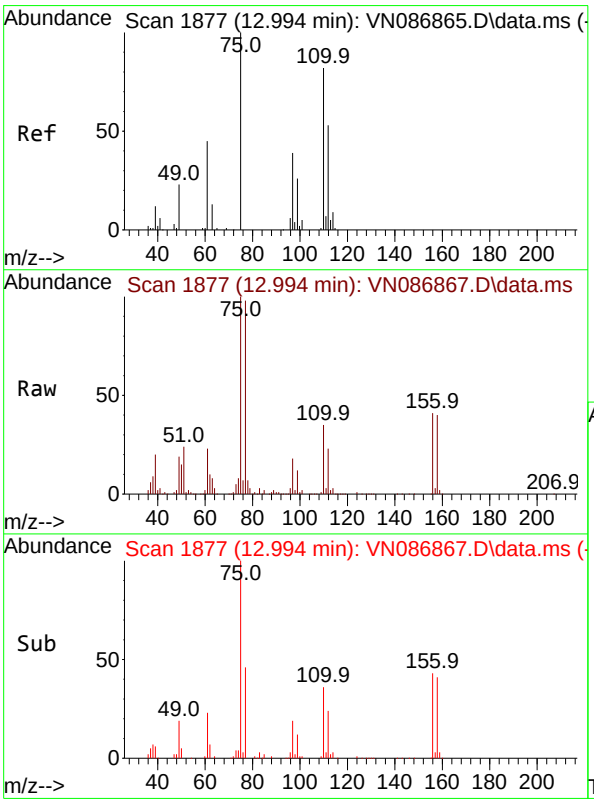
#75
1,1,2,2-Tetrachloroethane
Concen: 140.693 ug/l
RT: 12.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 474426

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.9	14.7
85	64.3	32.0	96.0

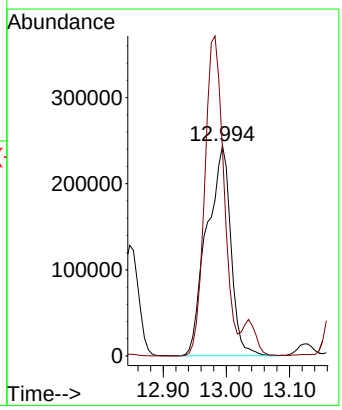


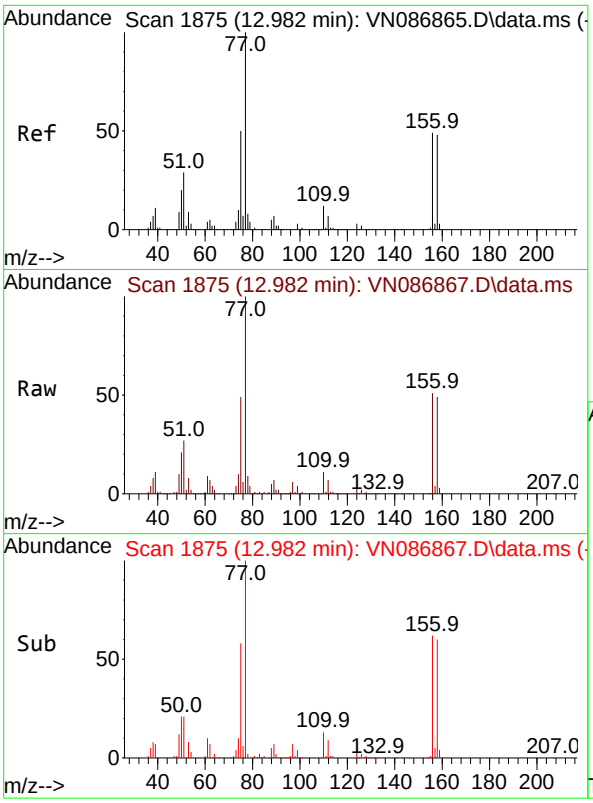


#76
1,2,3-Trichloropropane
Concen: 197.732 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 75 Resp: 644184

Ion	Ratio	Lower	Upper
75	100		
77	120.6	79.3	237.9



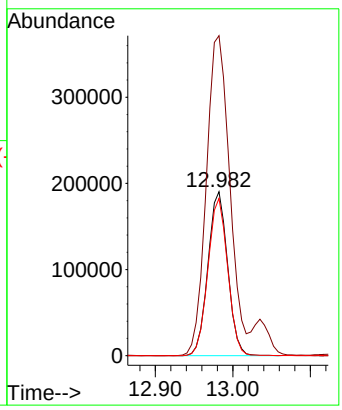


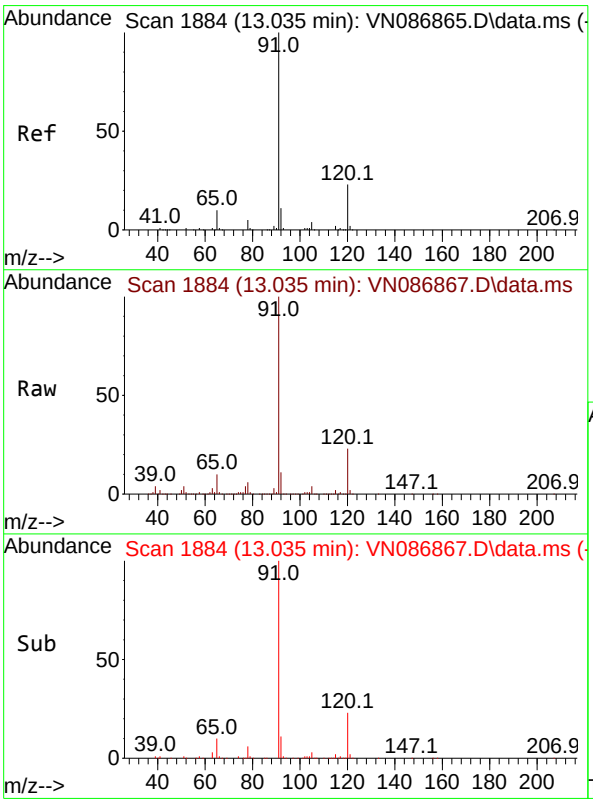
#77
Bromobenzene
Concen: 147.077 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 335734

Ion	Ratio	Lower	Upper
156	100		
77	231.5	117.7	353.1
158	96.3	48.1	144.4

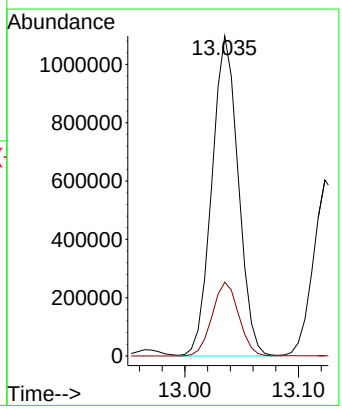


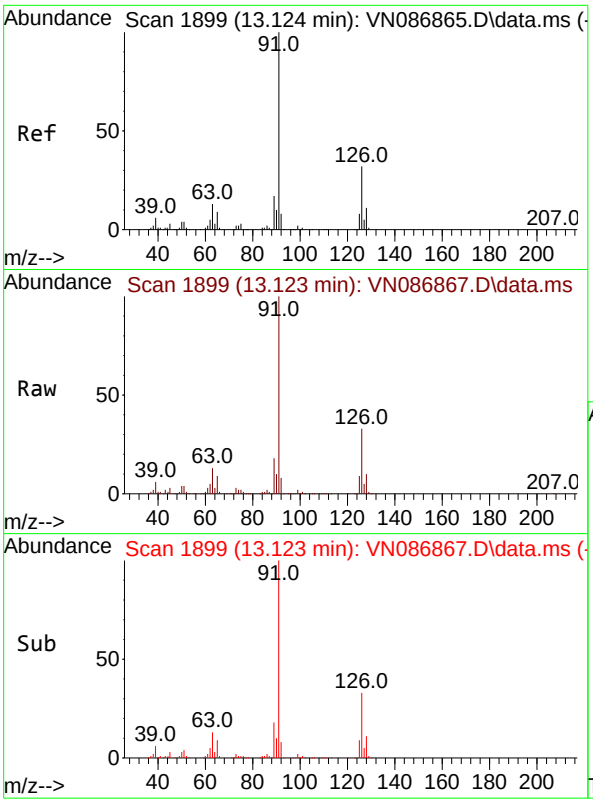


#78
n-propylbenzene
Concen: 146.301 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 91 Resp: 1769694

Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.4	34.2



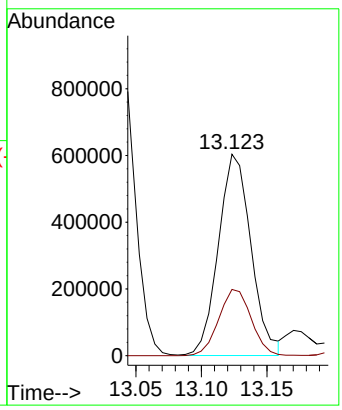


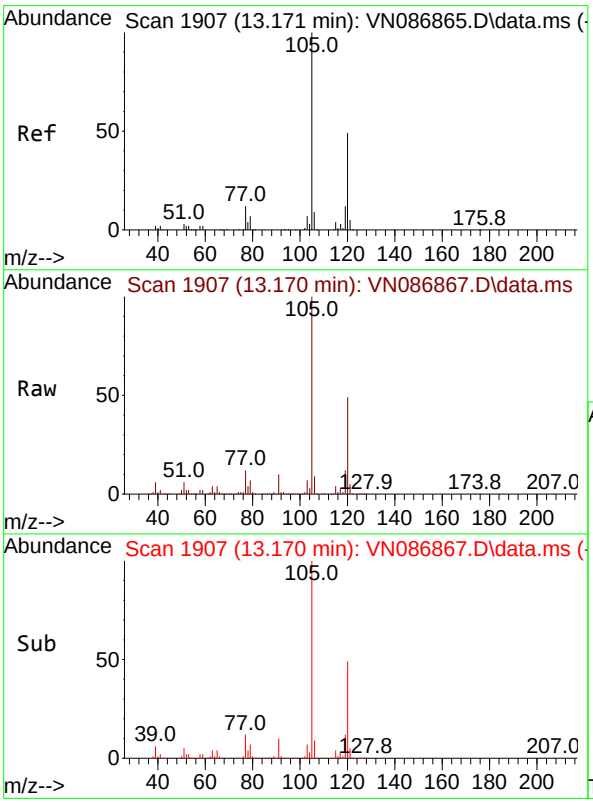
#79
2-Chlorotoluene
Concen: 144.317 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1046916

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.5

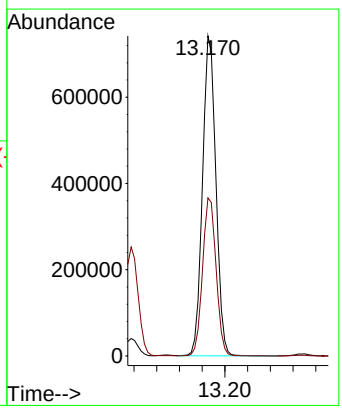


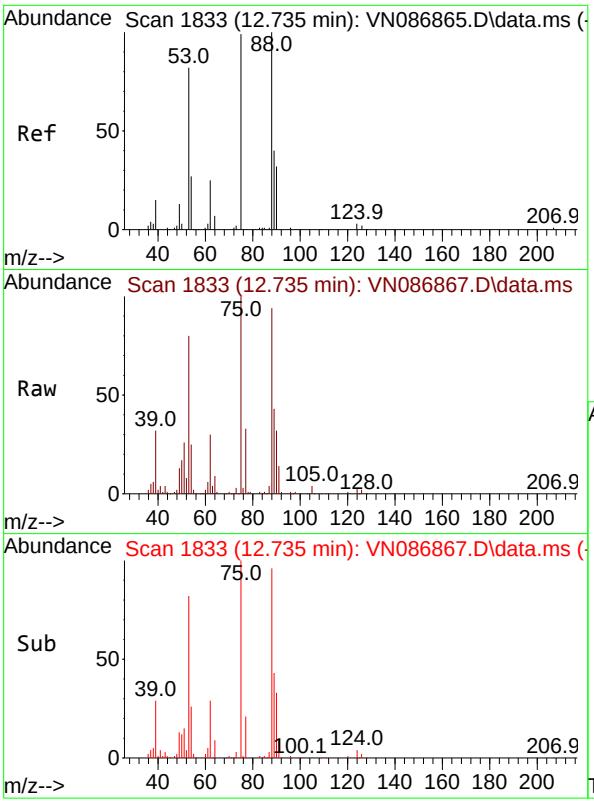


#80
1,3,5-Trimethylbenzene
Concen: 147.279 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:105 Resp: 1210325

Ion	Ratio	Lower	Upper
105	100		
120	50.0	24.9	74.6



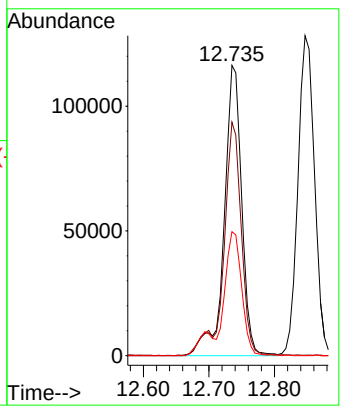


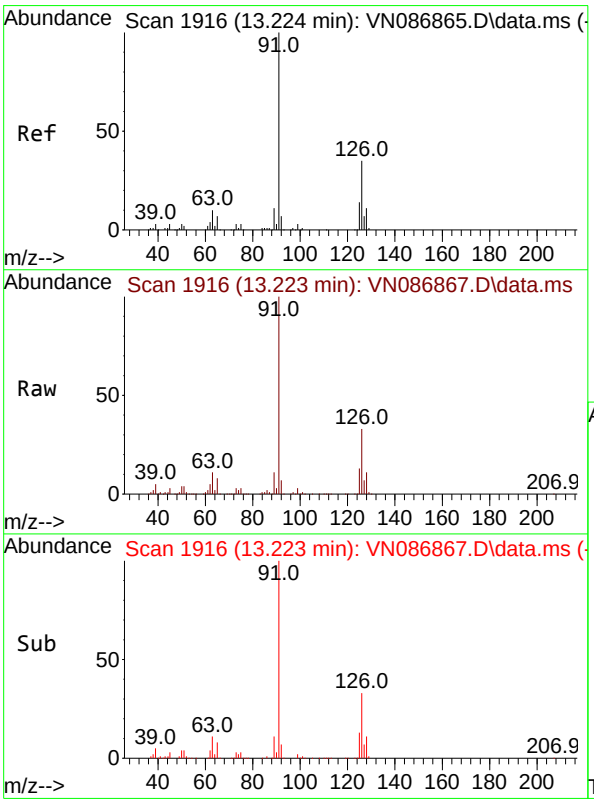
#81
trans-1,4-Dichloro-2-butene
Concen: 153.277 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 216253

Ion	Ratio	Lower	Upper
75	100		
53	81.3	66.6	99.8
89	40.0	36.7	55.1

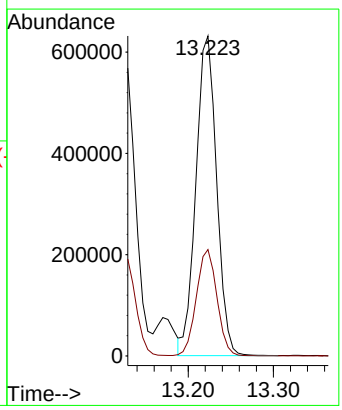


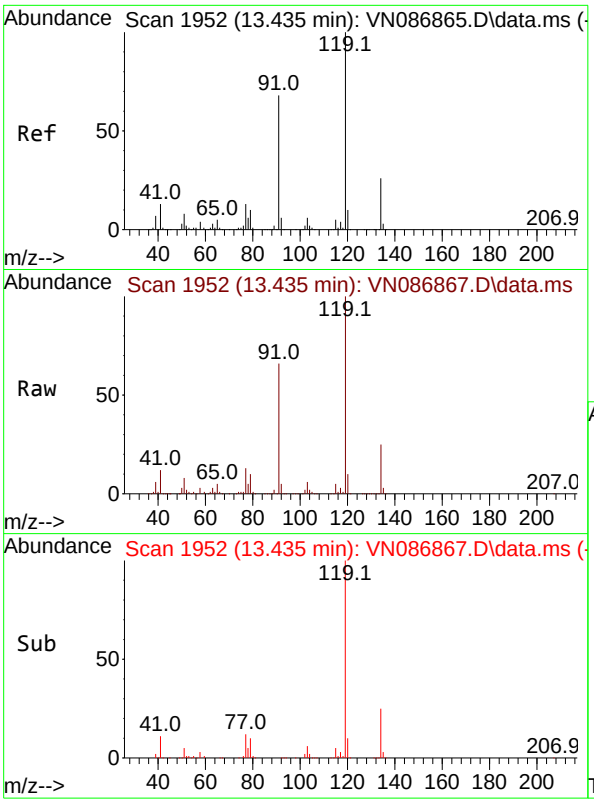


#82
4-Chlorotoluene
Concen: 144.900 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 91 Resp: 1063581

Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.7	50.1



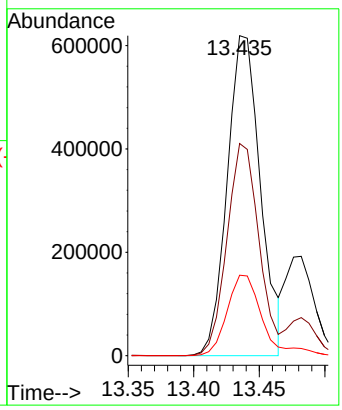


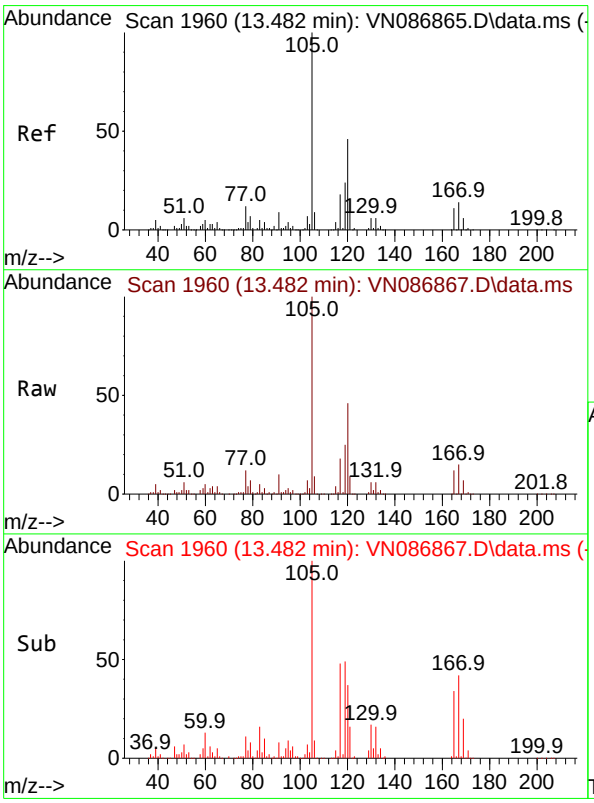
#83
tert-Butylbenzene
Concen: 145.352 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 1093406

Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.1	96.5
134	26.7	13.4	40.1

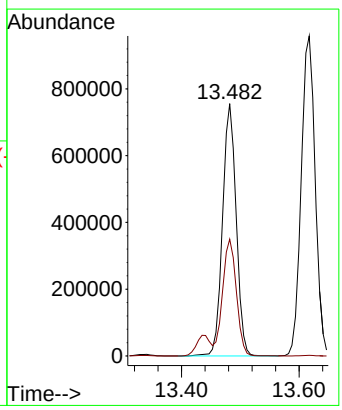


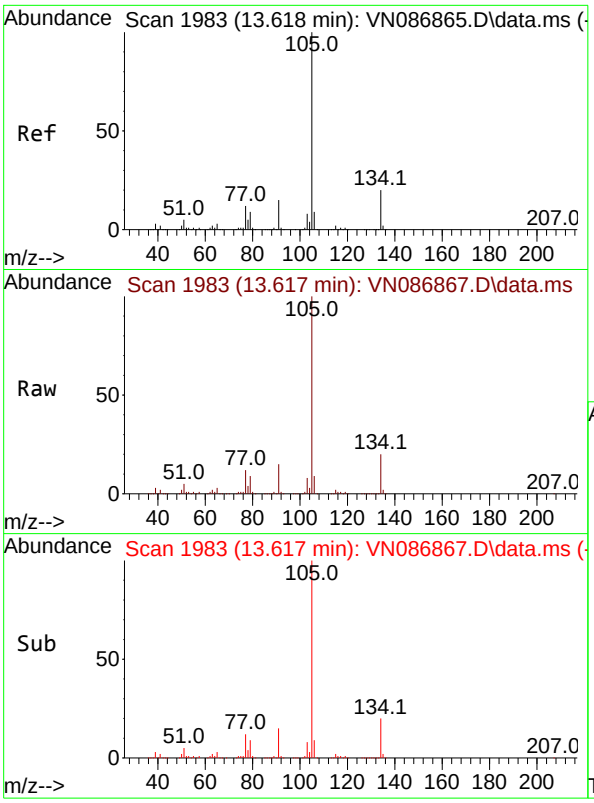


#84
1,2,4-Trimethylbenzene
Concen: 147.626 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:105 Resp: 1216529

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.2	69.6



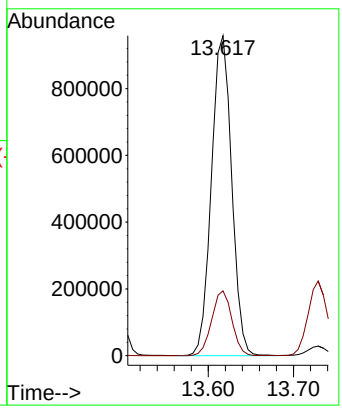


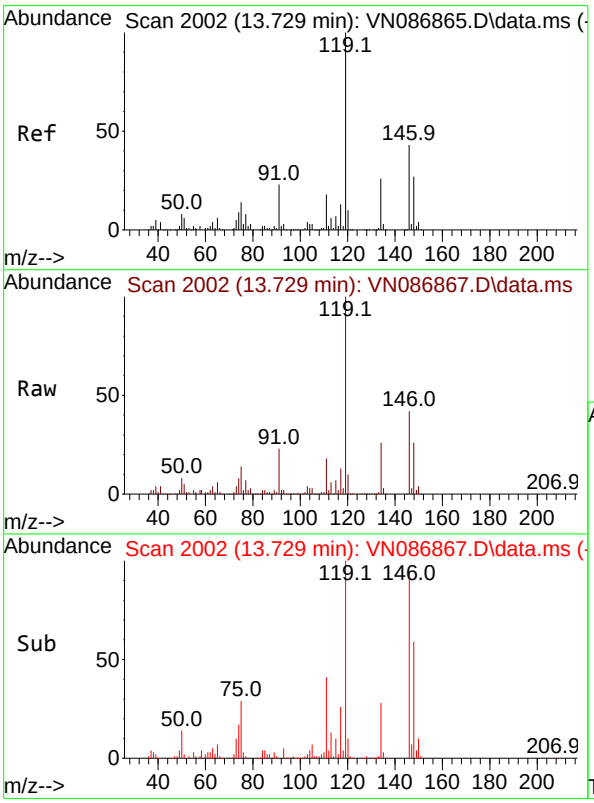
#85
sec-Butylbenzene
Concen: 144.885 ug/l
RT: 13.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 1582762

Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.0	30.0

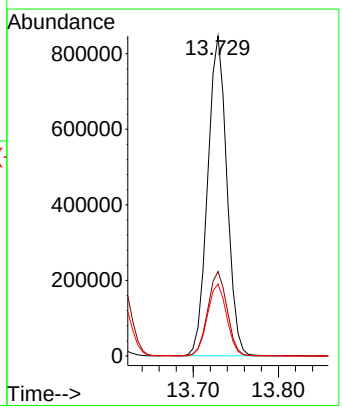


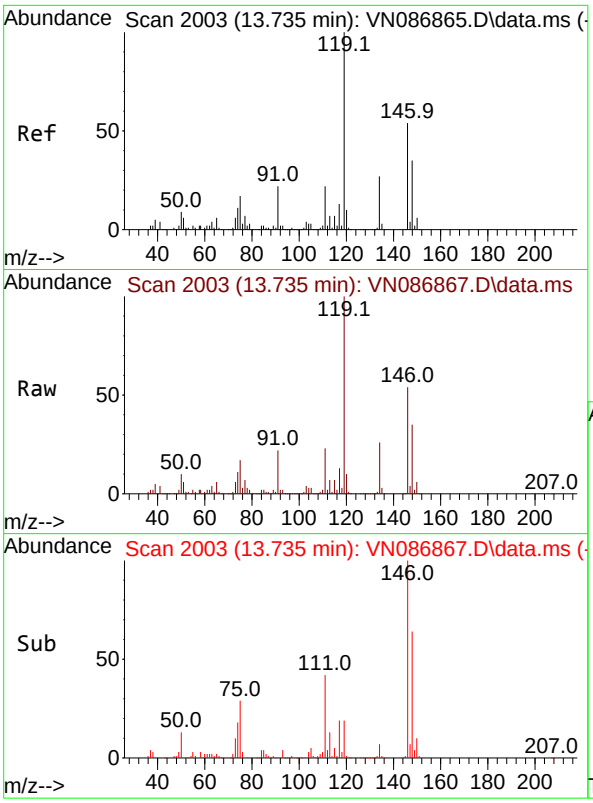


#86
p-Isopropyltoluene
Concen: 146.482 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:119 Resp: 1322780

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.5	40.4
91	22.7	11.5	34.4



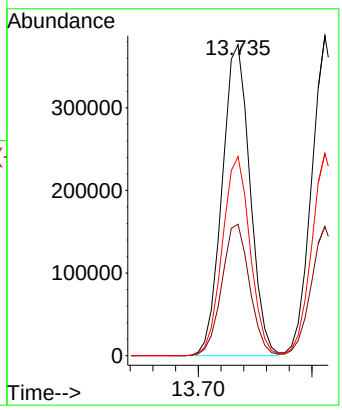


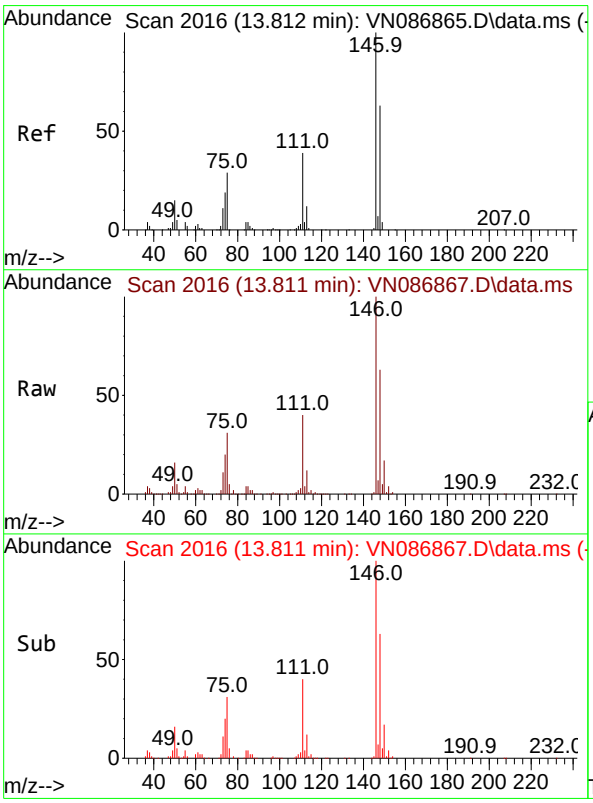
#87
1,3-Dichlorobenzene
Concen: 142.939 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 641966

Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.9	62.8
148	63.8	32.0	96.2

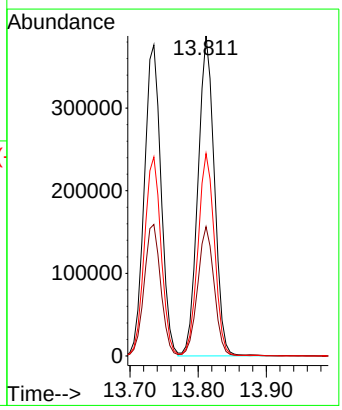


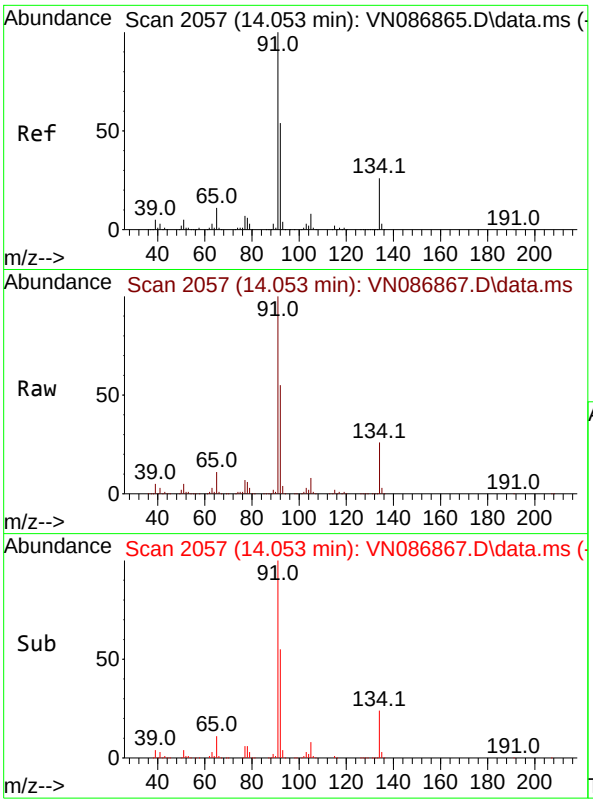


#88
1,4-Dichlorobenzene
Concen: 141.124 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:146 Resp: 646188

Ion	Ratio	Lower	Upper
146	100		
111	40.2	19.9	59.7
148	63.2	31.8	95.4



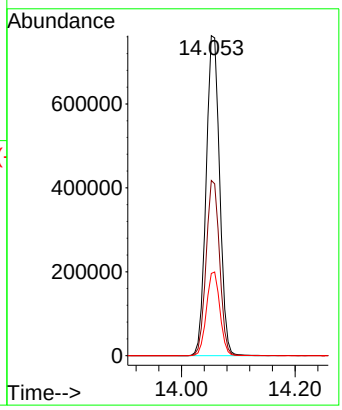


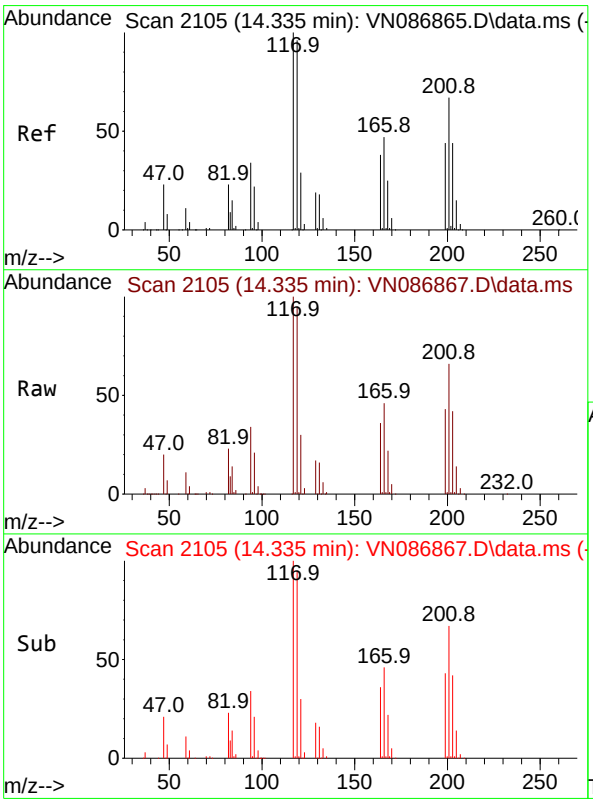
#89
n-Butylbenzene
Concen: 143.117 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 1251819

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.5	82.4
134	26.1	13.0	39.0

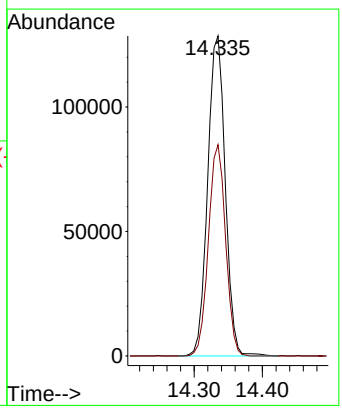


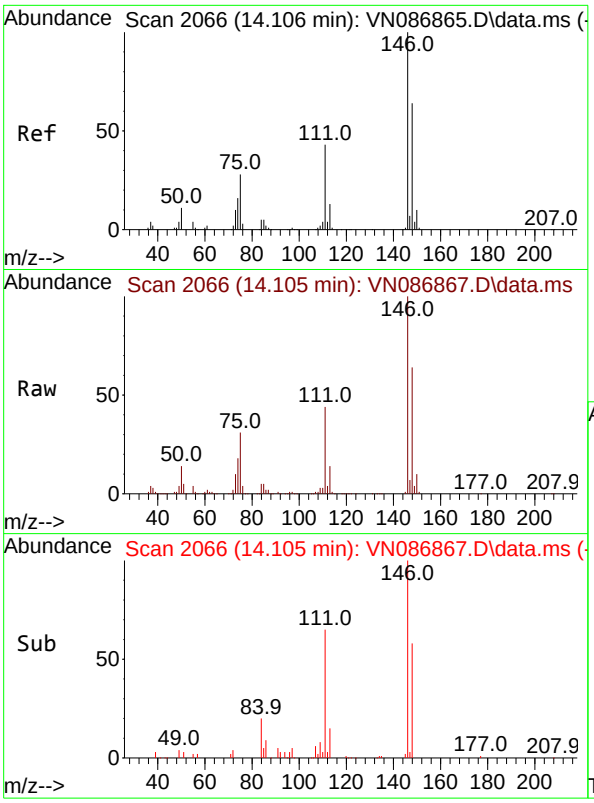


#90
Hexachloroethane
Concen: 150.387 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:117 Resp: 230195

Ion	Ratio	Lower	Upper
117	100		
201	64.5	33.2	99.6



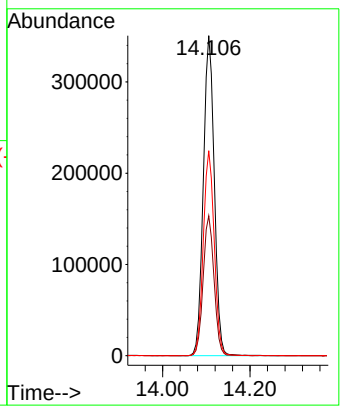


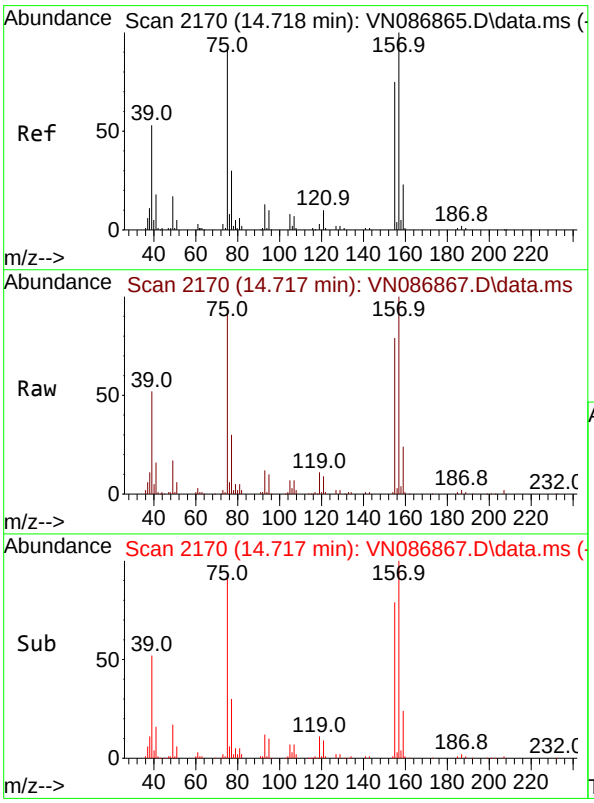
#91
1,2-Dichlorobenzene
Concen: 142.108 ug/l
RT: 14.105 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 613177

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.6	64.6
148	63.8	31.7	95.1

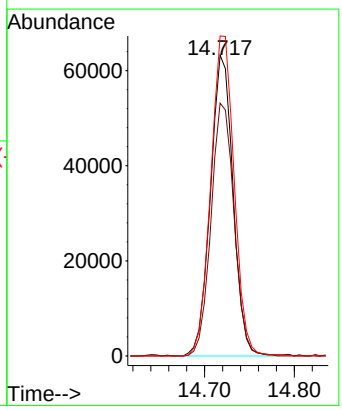


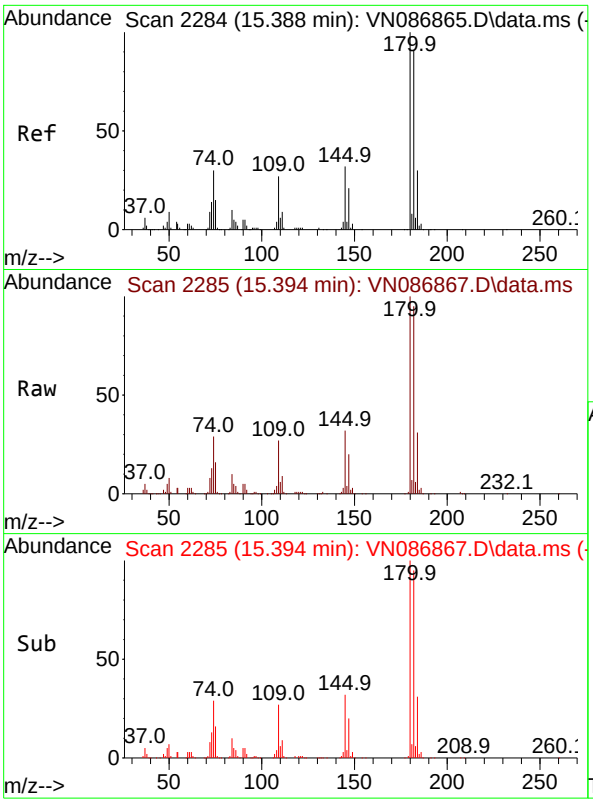


#92
1,2-Dibromo-3-Chloropropane
Concen: 137.242 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 75 Resp: 110677

Ion	Ratio	Lower	Upper
75	100		
155	85.5	41.1	123.4
157	110.2	52.7	158.1



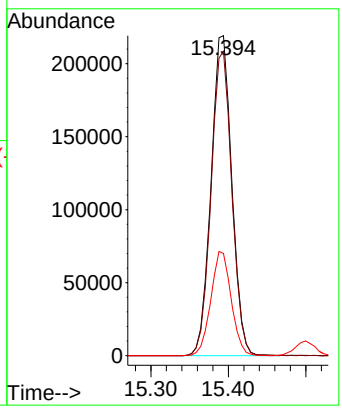


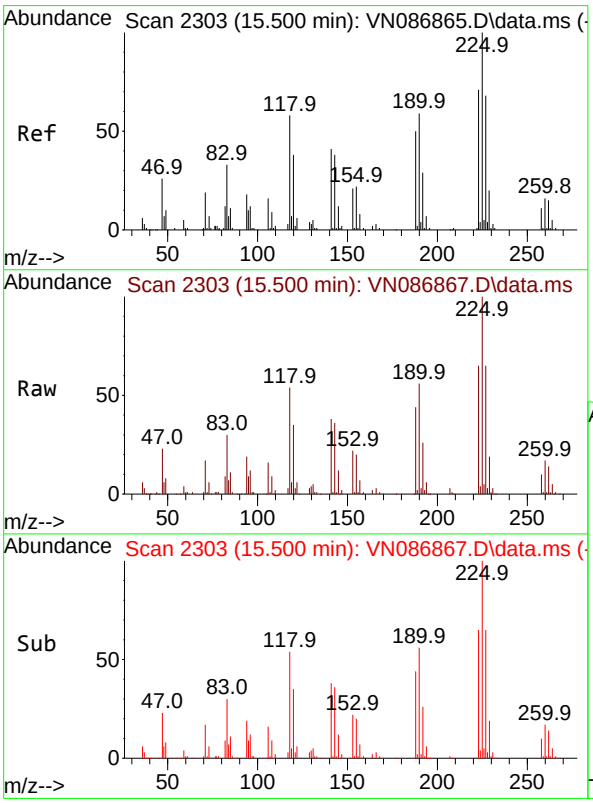
#93
1,2,4-Trichlorobenzene
Concen: 147.940 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:180 Resp: 407621

Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.9	140.7
145	32.0	16.0	47.9

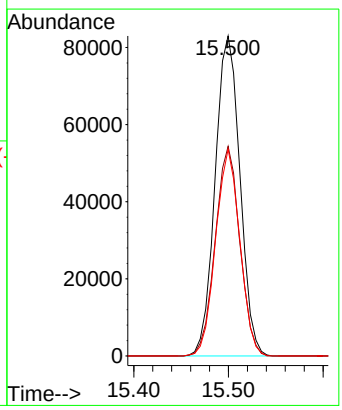


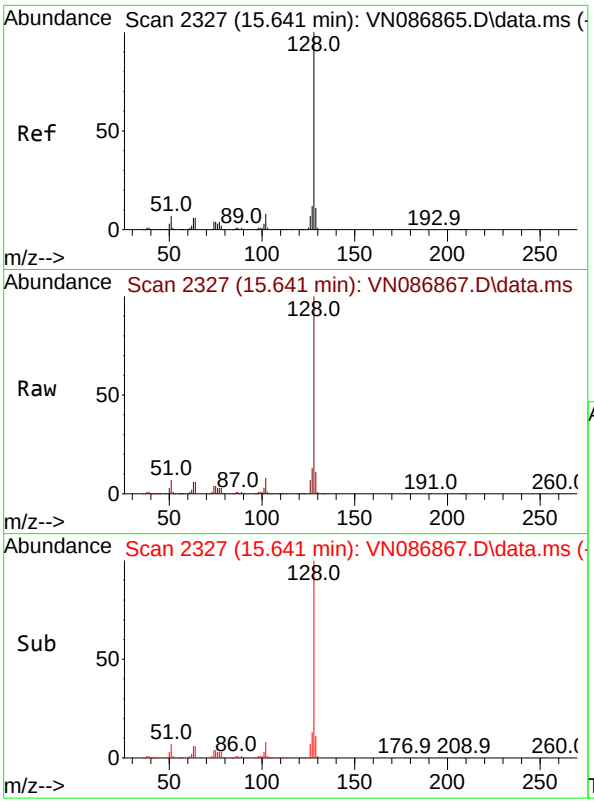


#94
Hexachlorobutadiene
Concen: 147.264 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:225 Resp: 151172

Ion	Ratio	Lower	Upper
225	100		
223	64.8	33.5	100.4
227	63.0	31.1	93.5



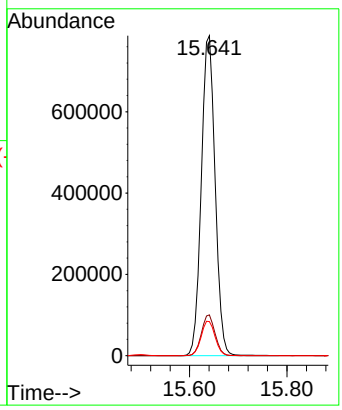


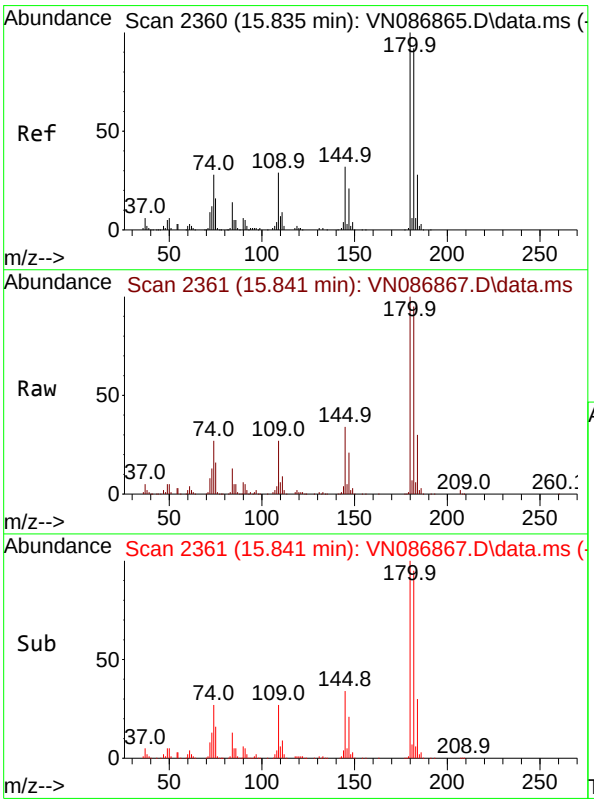
#95
Naphthalene
Concen: 150.743 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 1545981

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.9	8.8	13.2

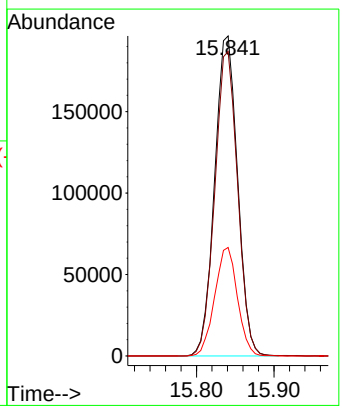




#96
1,2,3-Trichlorobenzene
Concen: 147.743 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:180 Resp: 404450

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.0	141.0
145	33.6	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	218122	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	394140	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	348935	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	172710	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	152255	52.135	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.260%			
35) Dibromofluoromethane	8.177	113	127102	54.416	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.840%			
50) Toluene-d8	10.571	98	491265	53.129	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.260%			
62) 4-Bromofluorobenzene	12.847	95	185792	54.081	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.160%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	120237	55.286	ug/l	99
3) Chloromethane	2.401	50	139027	49.505	ug/l	99
4) Vinyl Chloride	2.554	62	151951	52.451	ug/l	99
5) Bromomethane	2.989	94	89638	55.292	ug/l	95
6) Chloroethane	3.154	64	95654	51.117	ug/l	96
7) Trichlorofluoromethane	3.524	101	196138	51.819	ug/l	97
8) Diethyl Ether	3.983	74	87405	53.001	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.395	101	127498	53.615	ug/l	99
10) Methyl Iodide	4.612	142	164080	53.227	ug/l	97
11) Tert butyl alcohol	5.542	59	207768	262.193	ug/l	99
12) 1,1-Dichloroethene	4.359	96	125461	51.678	ug/l	99
13) Acrolein	4.195	56	60336	240.545	ug/l	98
14) Allyl chloride	5.042	41	203344	50.504	ug/l	98
15) Acrylonitrile	5.736	53	479502	258.885	ug/l	100
16) Acetone	4.448	43	382146	246.750	ug/l	98
17) Carbon Disulfide	4.736	76	339466	50.550	ug/l	100
18) Methyl Acetate	5.042	43	234290	51.912	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	454641	51.720	ug/l	100
20) Methylene Chloride	5.295	84	143862	49.617	ug/l	97
21) trans-1,2-Dichloroethene	5.806	96	133535	49.437	ug/l	99
22) Diisopropyl ether	6.689	45	440080	51.853	ug/l	99
23) Vinyl Acetate	6.618	43	1828919	255.055	ug/l	99
24) 1,1-Dichloroethane	6.589	63	251473	51.487	ug/l	98
25) 2-Butanone	7.494	43	644194	255.897	ug/l	99
26) 2,2-Dichloropropane	7.500	77	216678	57.031	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	164985	51.073	ug/l	99
28) Bromochloromethane	7.824	49	108810	45.310	ug/l	99
29) Tetrahydrofuran	7.847	42	420891	256.656	ug/l	100
30) Chloroform	7.977	83	248429	50.933	ug/l	97
31) Cyclohexane	8.265	56	237836	50.212	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	209927	50.603	ug/l	97
36) 1,1-Dichloropropene	8.377	75	181414	52.123	ug/l	99
37) Ethyl Acetate	7.571	43	222090	50.125	ug/l	99
38) Carbon Tetrachloride	8.371	117	179281	52.466	ug/l	98
39) Methylcyclohexane	9.606	83	251231	52.686	ug/l	98
40) Benzene	8.612	78	579667	50.931	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.789	41	130903	52.607	ug/l		100
42) 1,2-Dichloroethane	8.677	62	177746	51.489	ug/l		100
43) Isopropyl Acetate	8.694	43	359378	50.536	ug/l		100
44) Trichloroethene	9.359	130	139763	51.788	ug/l		100
45) 1,2-Dichloropropane	9.624	63	142463	51.450	ug/l		99
46) Dibromomethane	9.712	93	97199	52.849	ug/l		98
47) Bromodichloromethane	9.894	83	196104	51.824	ug/l		100
48) Methyl methacrylate	9.688	41	168001	51.328	ug/l		98
49) 1,4-Dioxane	9.706	88	66102	1110.123	ug/l	#	99
51) 4-Methyl-2-Pentanone	10.447	43	1146622	267.835	ug/l		99
52) Toluene	10.635	92	361963	52.040	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	224839	53.137	ug/l		99
54) cis-1,3-Dichloropropene	10.318	75	237774	52.519	ug/l		99
55) 1,1,2-Trichloroethane	11.018	97	137998	51.562	ug/l		99
56) Ethyl methacrylate	10.882	69	241649	56.688	ug/l		98
57) 1,3-Dichloropropane	11.165	76	238572	51.386	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.165	63	625479	246.006	ug/l		100
59) 2-Hexanone	11.200	43	781717	283.478	ug/l		100
60) Dibromochloromethane	11.359	129	146749	52.627	ug/l		99
61) 1,2-Dibromoethane	11.471	107	142338	51.887	ug/l		99
64) Tetrachloroethene	11.106	164	111409	50.450	ug/l		98
65) Chlorobenzene	11.894	112	391661	50.892	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	129045	52.164	ug/l		99
67) Ethyl Benzene	11.965	91	683879	51.590	ug/l		98
68) m/p-Xylenes	12.071	106	527293	103.912	ug/l		98
69) o-Xylene	12.400	106	254600	52.387	ug/l		100
70) Styrene	12.412	104	438751	52.758	ug/l		99
71) Bromoform	12.582	173	100357	54.751	ug/l	#	99
73) Isopropylbenzene	12.694	105	652045	51.823	ug/l		100
74) N-amyl acetate	12.506	43	238355	54.212	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.941	83	220643	51.763	ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	302004	73.563	ug/l		69
77) Bromobenzene	12.982	156	150950	52.313	ug/l		100
78) n-propylbenzene	13.035	91	801180	52.397	ug/l		100
79) 2-Chlorotoluene	13.123	91	473629	51.650	ug/l		99
80) 1,3,5-Trimethylbenzene	13.171	105	548347	52.787	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	99341	55.702	ug/l		97
82) 4-Chlorotoluene	13.223	91	481403	51.884	ug/l		99
83) tert-Butylbenzene	13.441	119	499519	52.532	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	552333	53.024	ug/l		100
85) sec-Butylbenzene	13.618	105	723986	52.428	ug/l		100
86) p-Isopropyltoluene	13.729	119	606979	53.174	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	290810	51.224	ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	298412	51.557	ug/l		100
89) n-Butylbenzene	14.059	91	579636	52.424	ug/l		100
90) Hexachloroethane	14.335	117	102254	52.847	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	280025	51.340	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.723	75	50115	49.161	ug/l		98
93) 1,2,4-Trichlorobenzene	15.394	180	181064	51.986	ug/l		99
94) Hexachlorobutadiene	15.500	225	68570	52.843	ug/l		99
95) Naphthalene	15.641	128	674187	52.005	ug/l		100
96) 1,2,3-Trichlorobenzene	15.841	180	174888	50.539	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

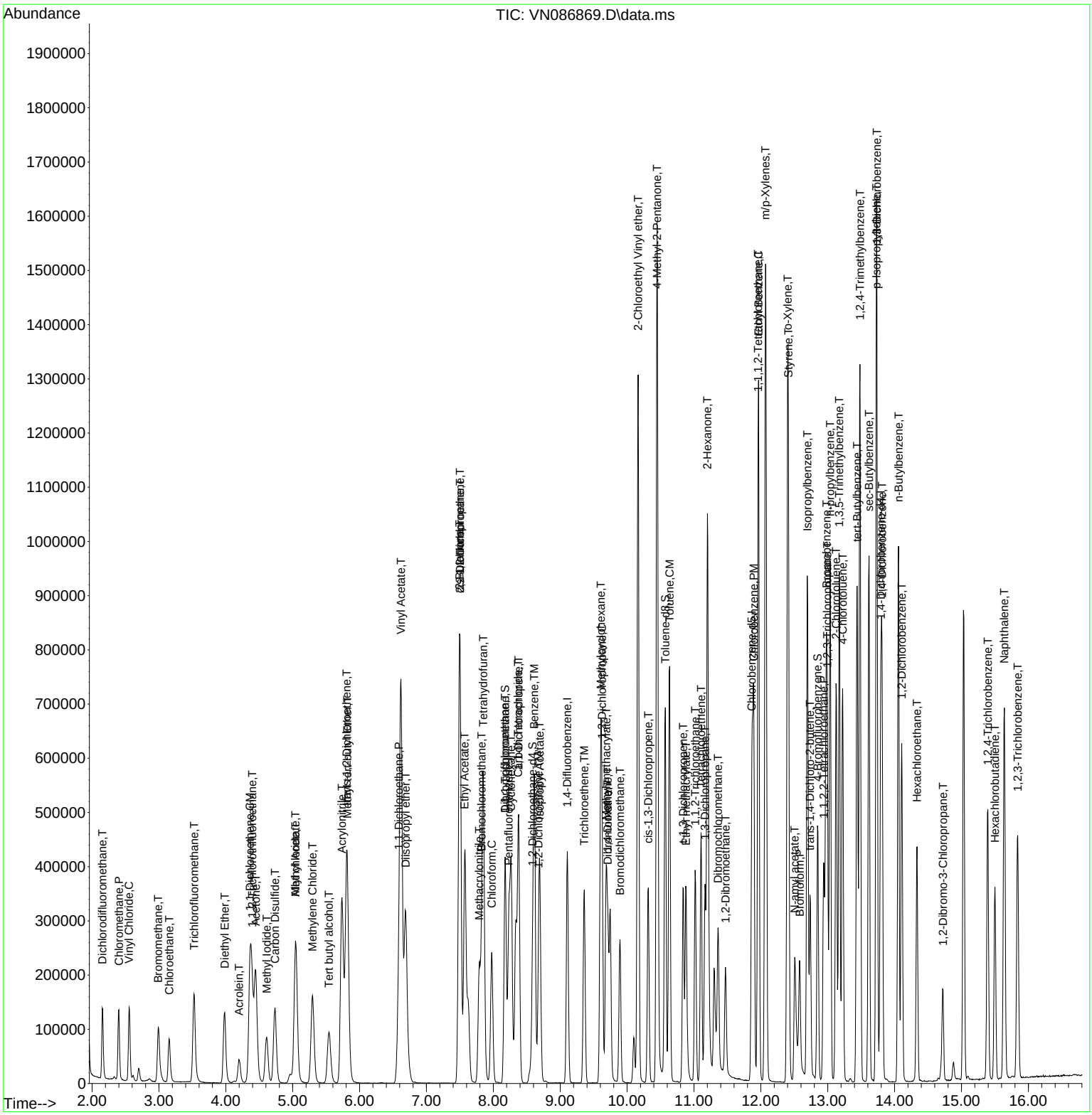
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

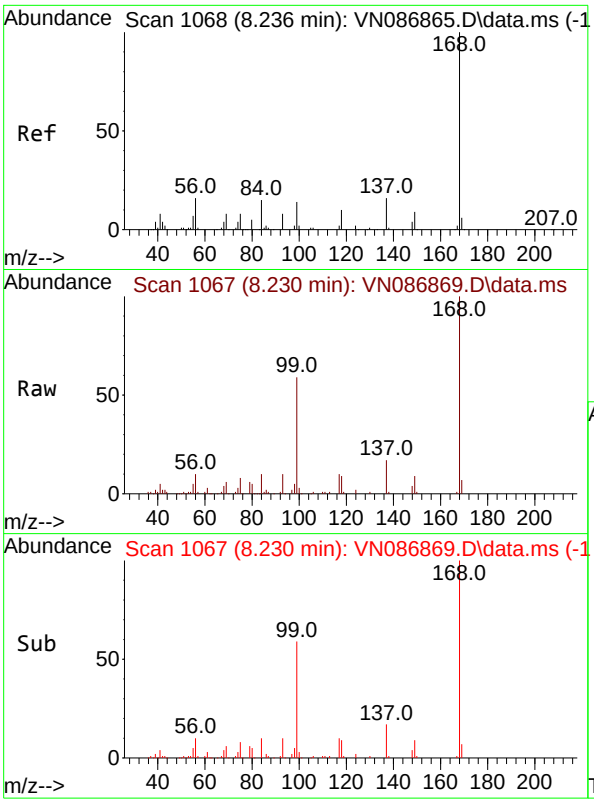
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



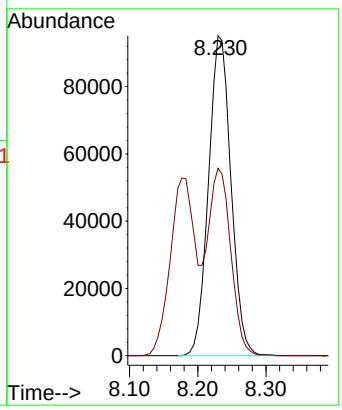


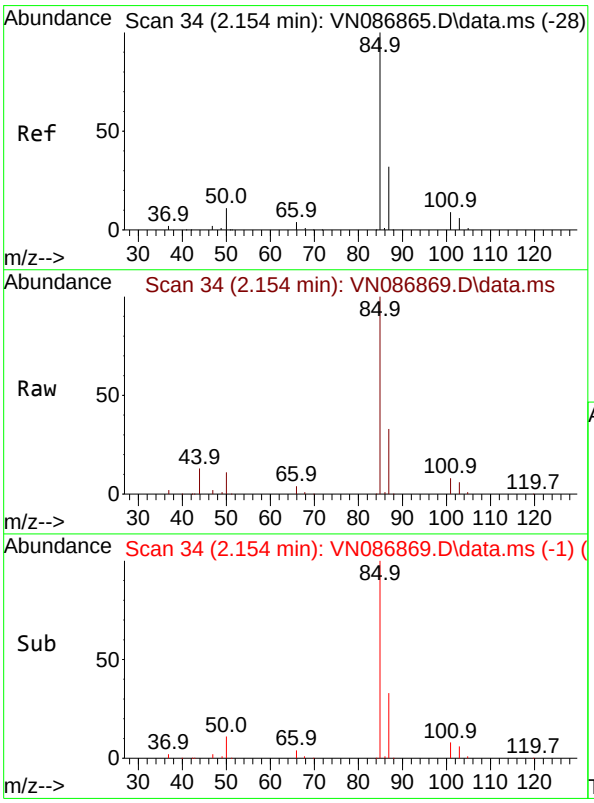
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:168 Resp: 218122

Ion	Ratio	Lower	Upper
168	100		
99	58.6	49.1	73.7

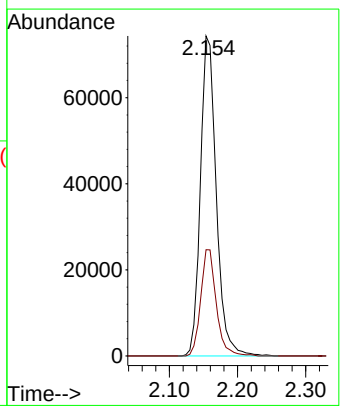


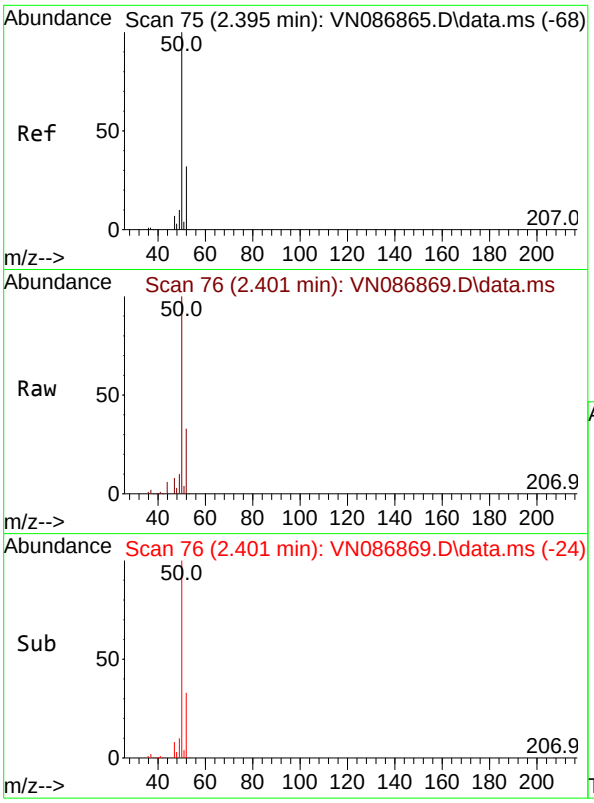


#2
Dichlorodifluoromethane
Concen: 55.286 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 85 Resp: 120237

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.2	48.6



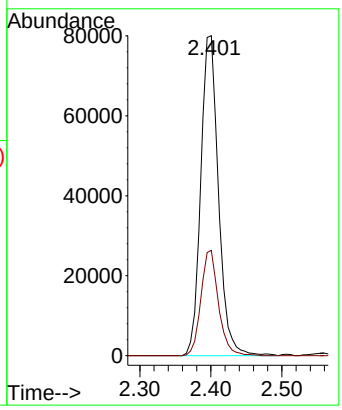


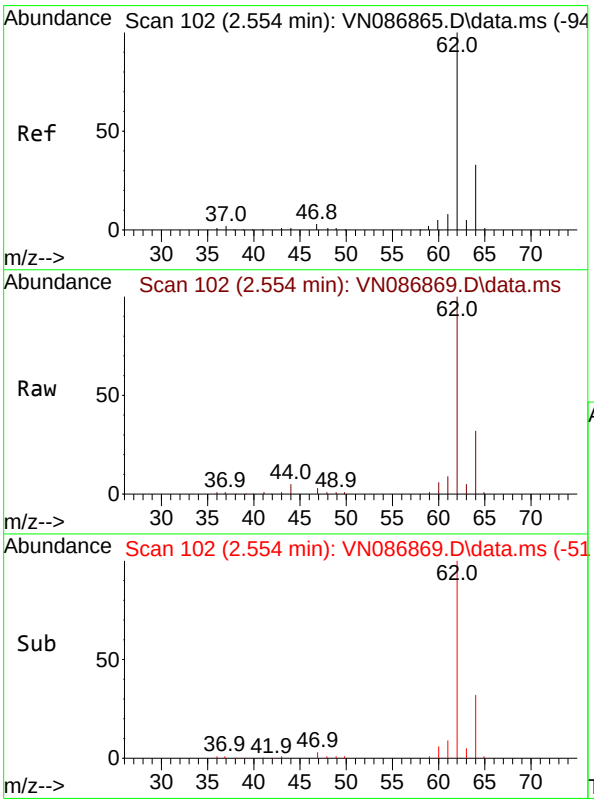
#3
Chloromethane
Concen: 49.505 ug/l
RT: 2.401 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 50 Resp: 139027

Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.7	38.5

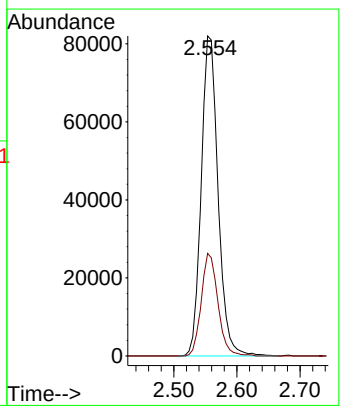


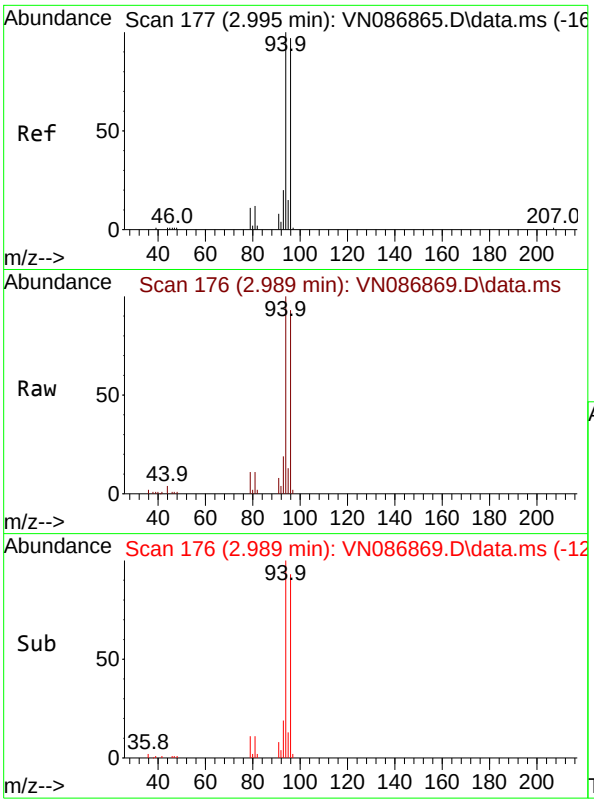


#4
Vinyl Chloride
Concen: 52.451 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 62 Resp: 151951

Ion	Ratio	Lower	Upper
62	100		
64	32.0	26.0	39.0



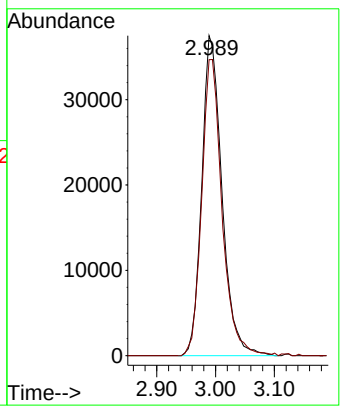


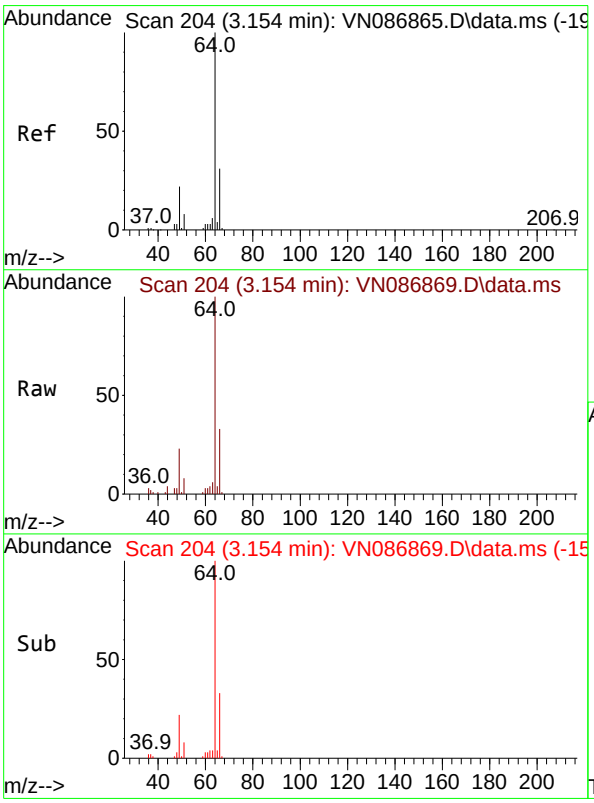
#5
Bromomethane
Concen: 55.292 ug/l
RT: 2.989 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 94 Resp: 89638

Ion	Ratio	Lower	Upper
94	100		
96	92.5	77.9	116.9

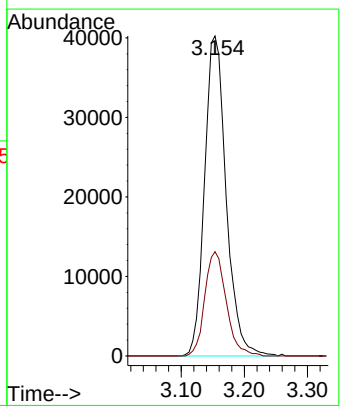


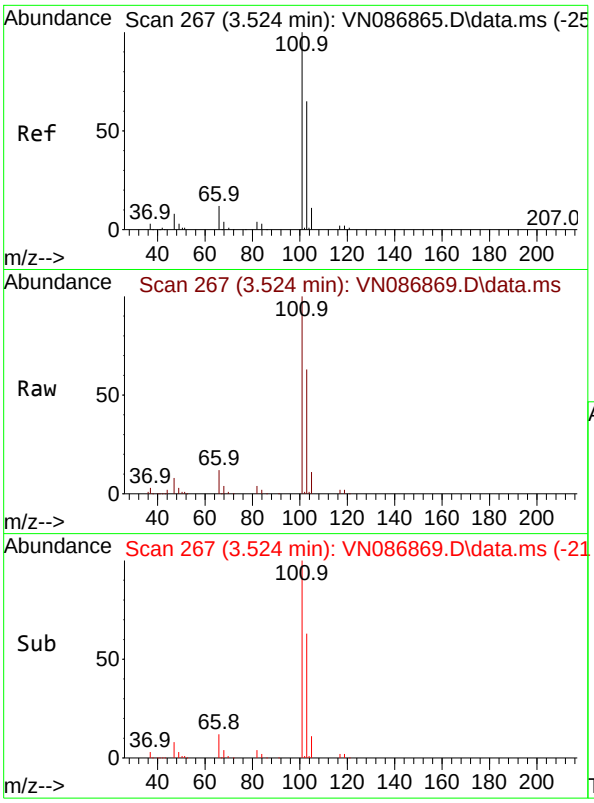


#6
Chloroethane
Concen: 51.117 ug/l
RT: 3.154 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 64 Resp: 95654

Ion	Ratio	Lower	Upper
64	100		
66	32.6	24.6	36.8



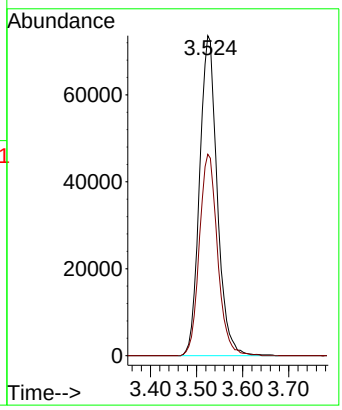


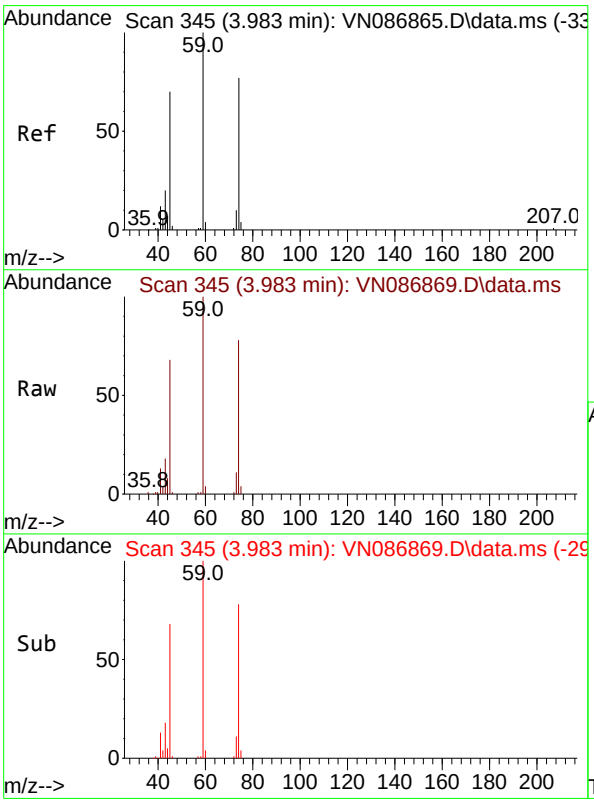
#7
Trichlorofluoromethane
Concen: 51.819 ug/l
RT: 3.524 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:101 Resp: 196138

Ion	Ratio	Lower	Upper
101	100		
103	62.9	52.2	78.2

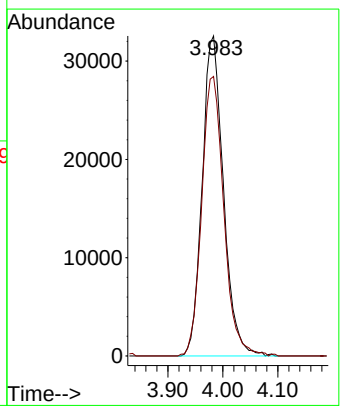


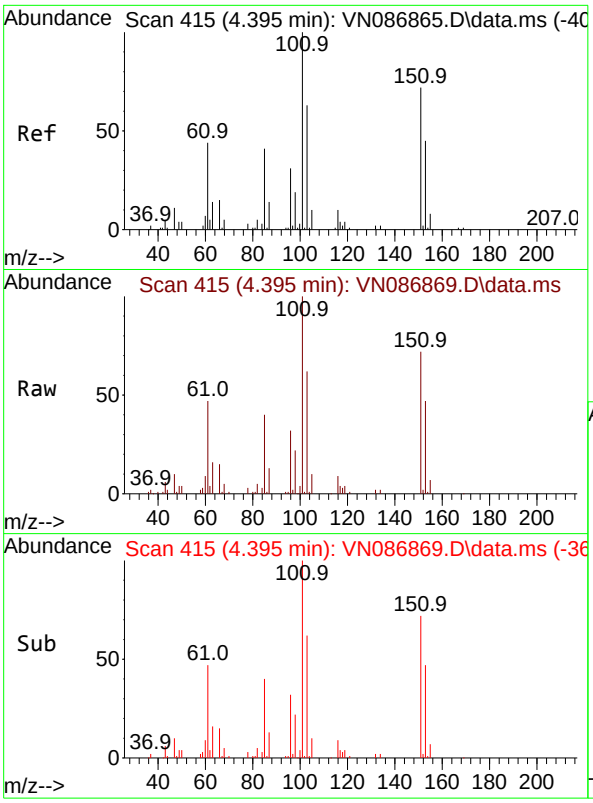


#8
Diethyl Ether
Concen: 53.001 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 74 Resp: 87405

Ion	Ratio	Lower	Upper
74	100		
45	90.9	45.5	136.5



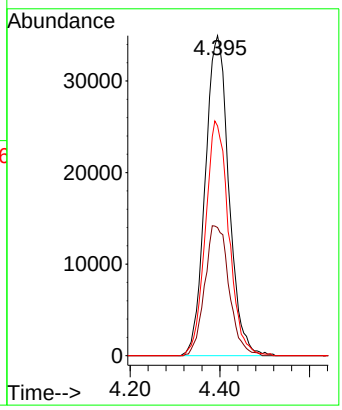


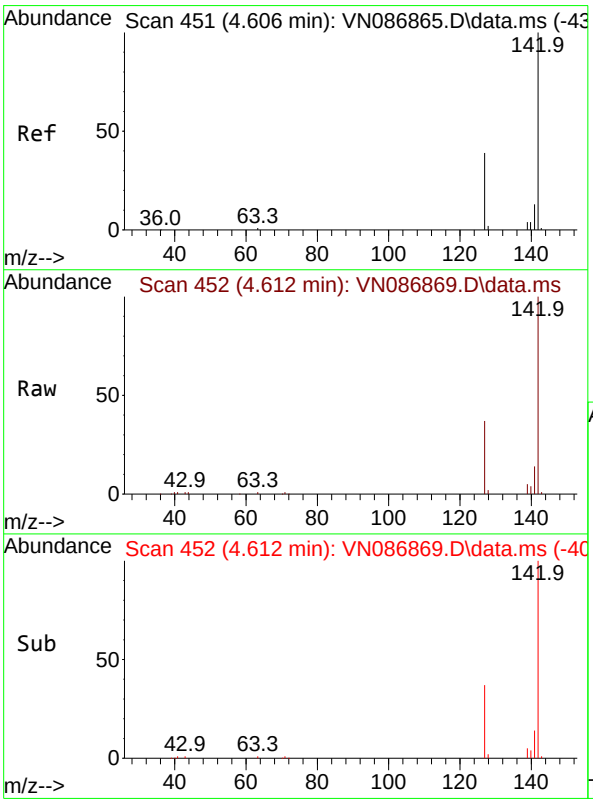
#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.615 ug/l
RT: 4.395 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:101 Resp: 127498

Ion	Ratio	Lower	Upper
101	100		
85	41.9	33.8	50.8
151	72.8	58.7	88.1

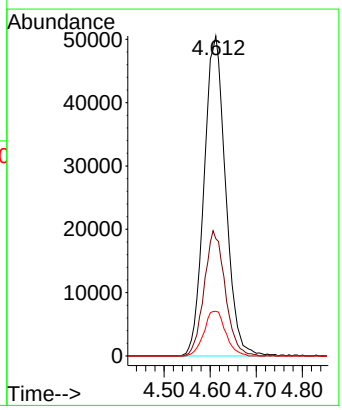


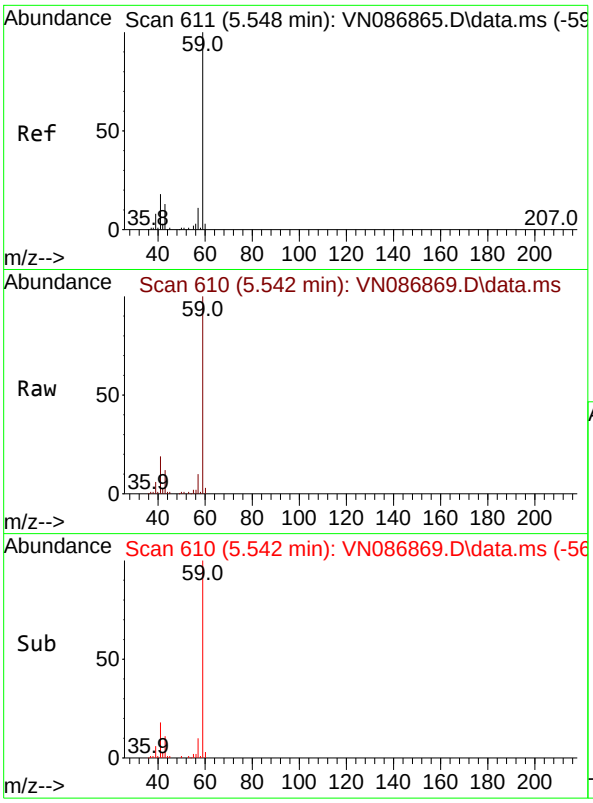


#10
Methyl Iodide
Concen: 53.227 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:142 Resp: 164080

Ion	Ratio	Lower	Upper
142	100		
127	36.6	30.9	46.3
141	14.0	10.4	15.6



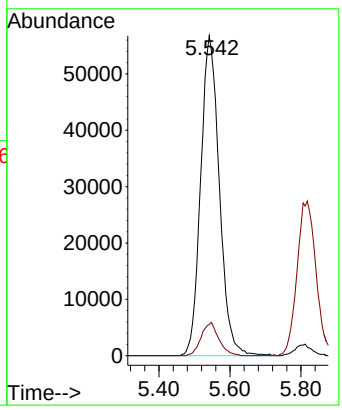


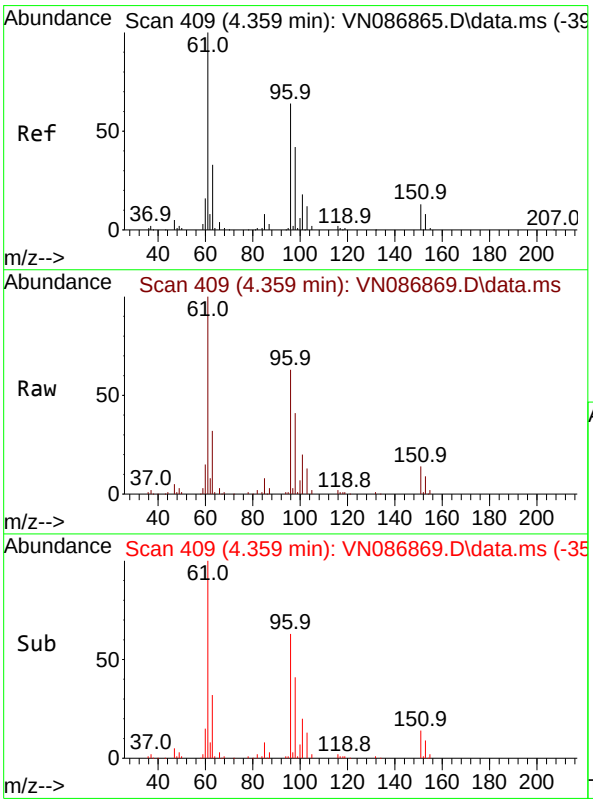
#11
Tert butyl alcohol
Concen: 262.193 ug/l
RT: 5.542 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 59 Resp: 207768

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1

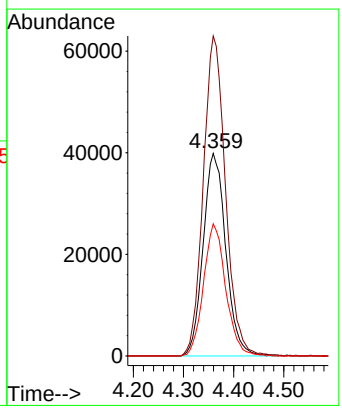


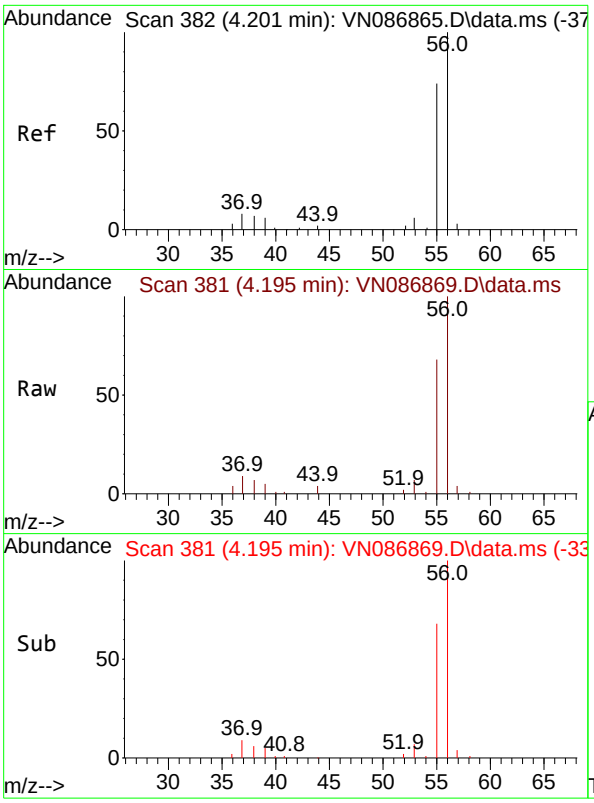


#12
1,1-Dichloroethene
Concen: 51.678 ug/l
RT: 4.359 min Scan# 409
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 96 Resp: 125461

Ion	Ratio	Lower	Upper
96	100		
61	158.0	125.8	188.6
98	65.2	52.5	78.7



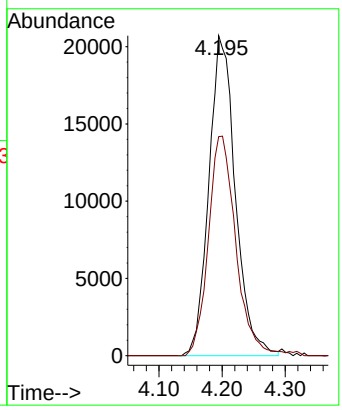


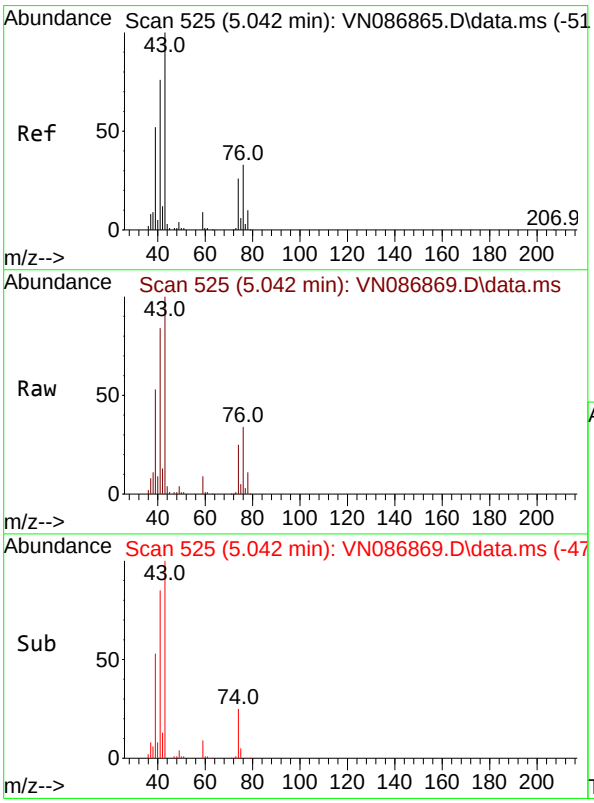
#13
Acrolein
Concen: 240.545 ug/l
RT: 4.195 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 56 Resp: 60336

Ion	Ratio	Lower	Upper
56	100		
55	71.1	55.6	83.4

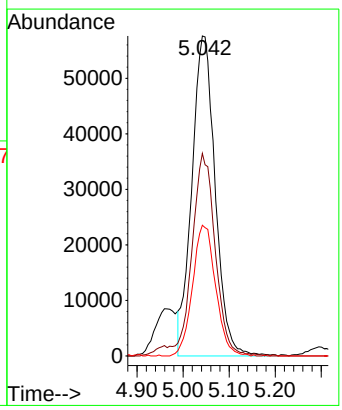


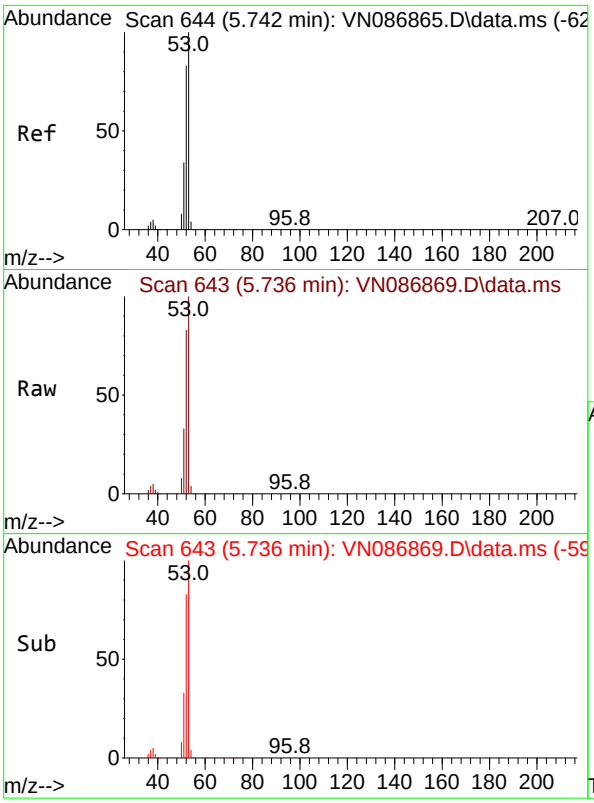


#14
Allyl chloride
Concen: 50.504 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 41 Resp: 203344

Ion	Ratio	Lower	Upper
41	100		
39	62.3	51.3	76.9
76	40.4	31.4	47.0



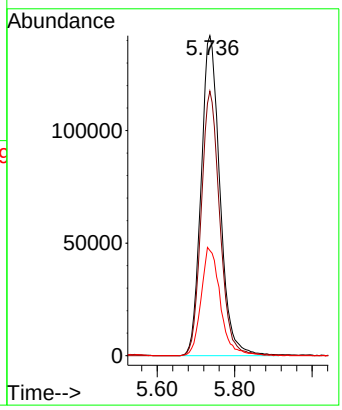


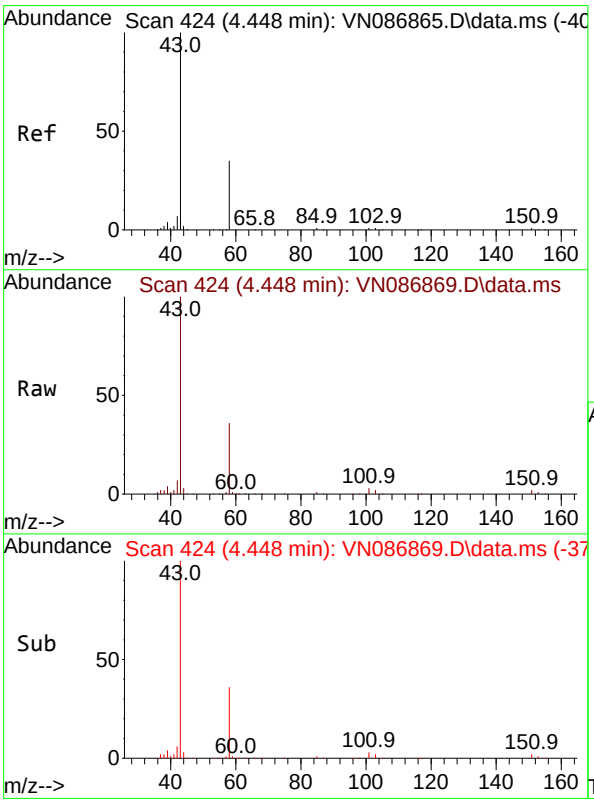
#15
Acrylonitrile
Concen: 258.885 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 53 Resp: 479502

Ion	Ratio	Lower	Upper
53	100		
52	81.3	65.0	97.6
51	34.5	27.2	40.8

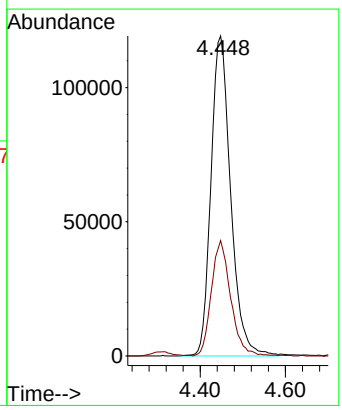


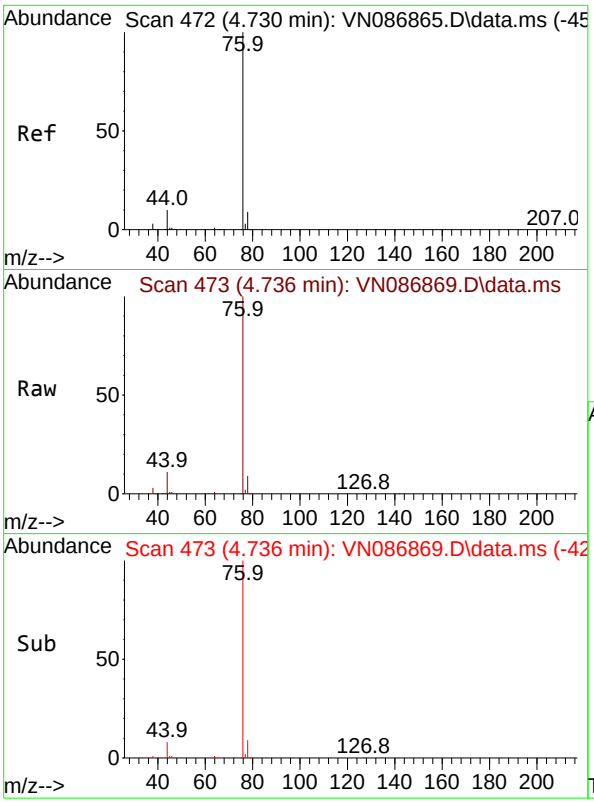


#16
Acetone
Concen: 246.750 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 43 Resp: 382146

Ion	Ratio	Lower	Upper
43	100		
58	35.9	28.0	42.0



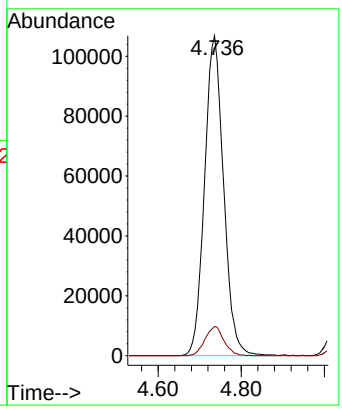


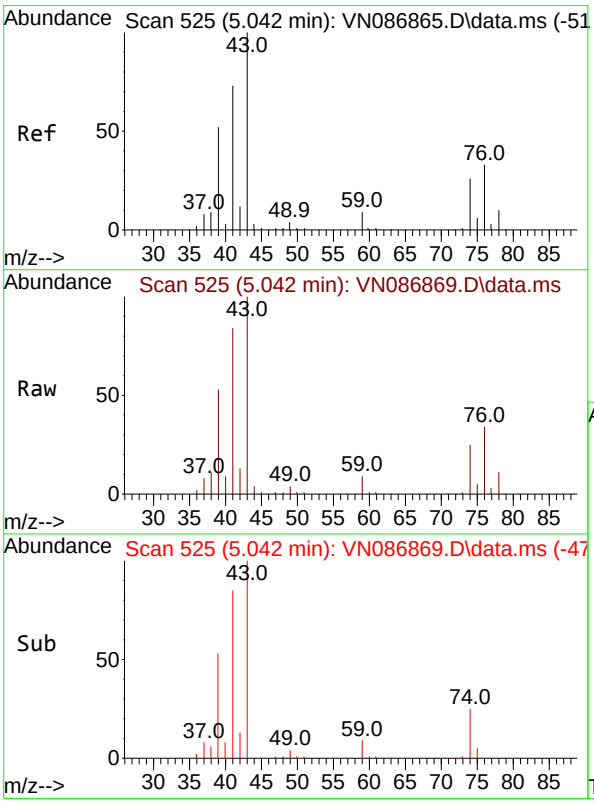
#17
Carbon Disulfide
Concen: 50.550 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 76 Resp: 339466

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9

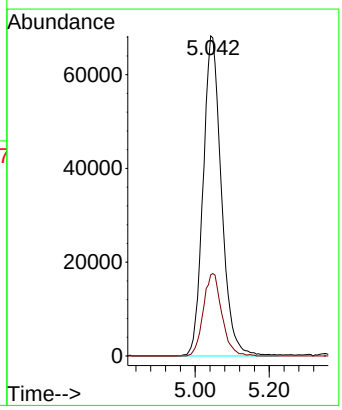


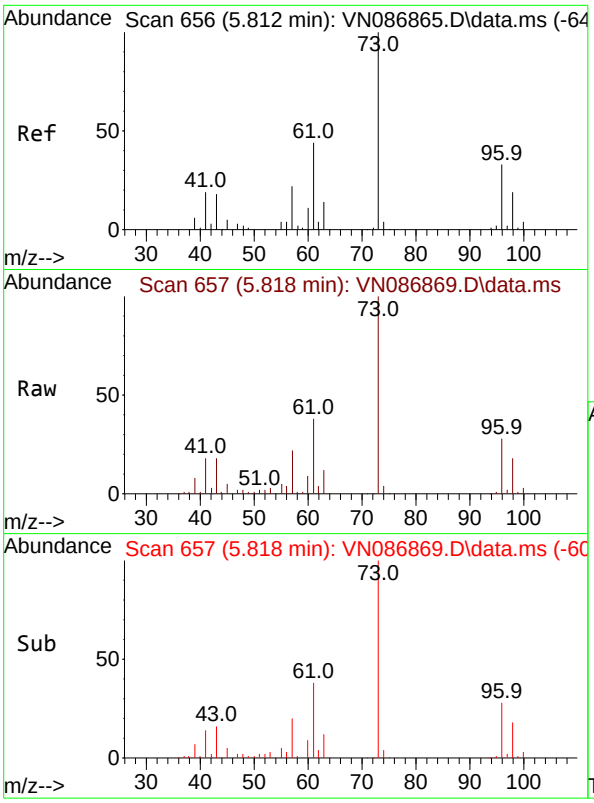


#18
Methyl Acetate
Concen: 51.912 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 43 Resp: 234290

Ion	Ratio	Lower	Upper
43	100		
74	25.9	20.7	31.1



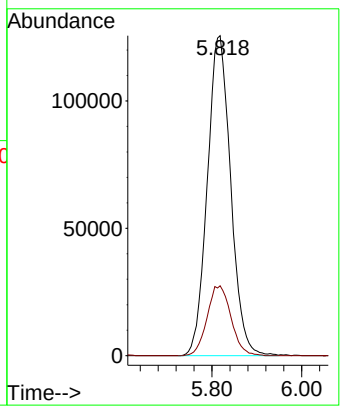


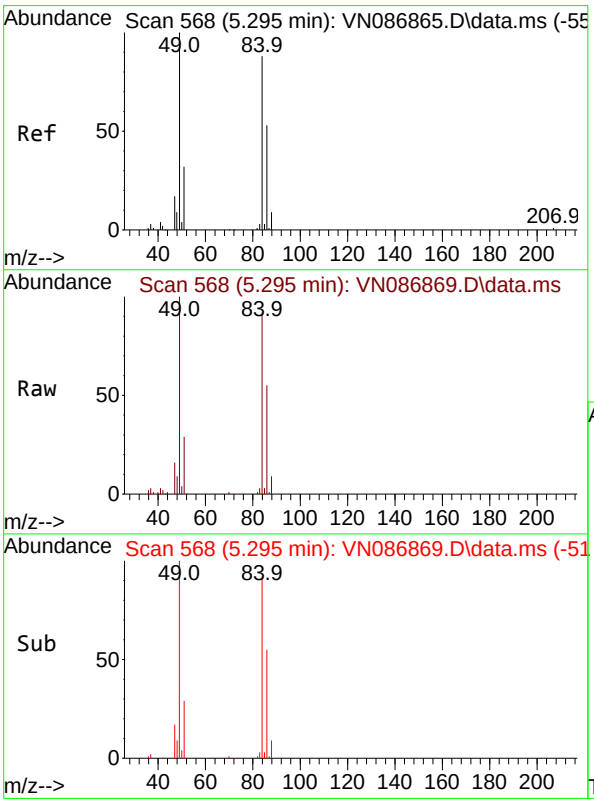
#19
Methyl tert-butyl Ether
Concen: 51.720 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 73 Resp: 454641

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2

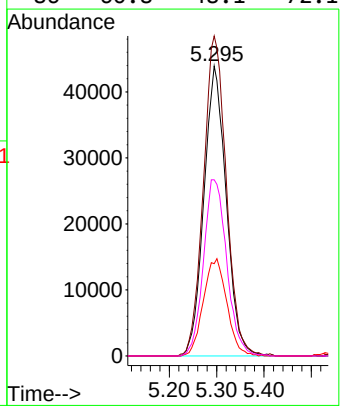


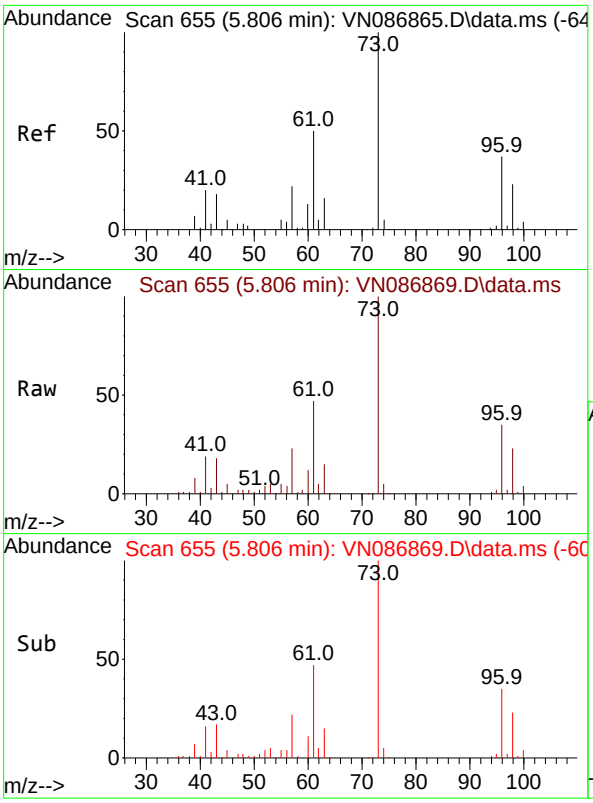


#20
Methylene Chloride
Concen: 49.617 ug/l
RT: 5.295 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 84 Resp: 143862

Ion	Ratio	Lower	Upper
84	100		
49	110.3	90.5	135.7
51	31.8	28.5	42.7
86	60.8	48.1	72.1



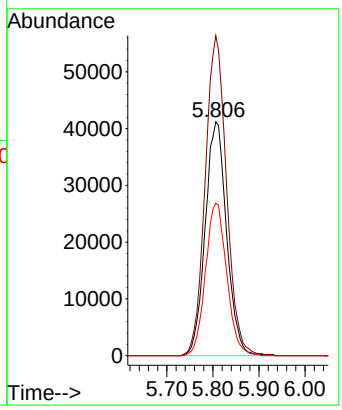


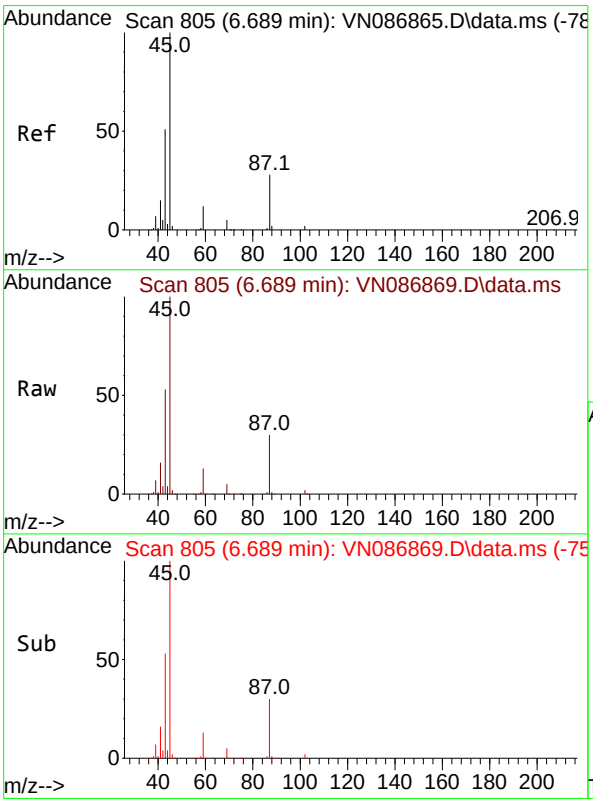
#21
trans-1,2-Dichloroethene
Concen: 49.437 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 96 Resp: 133535

Ion	Ratio	Lower	Upper
96	100		
61	136.8	109.2	163.8
98	65.2	49.8	74.8

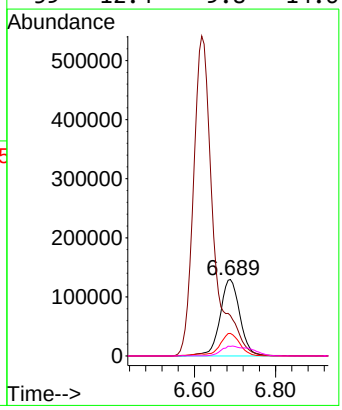


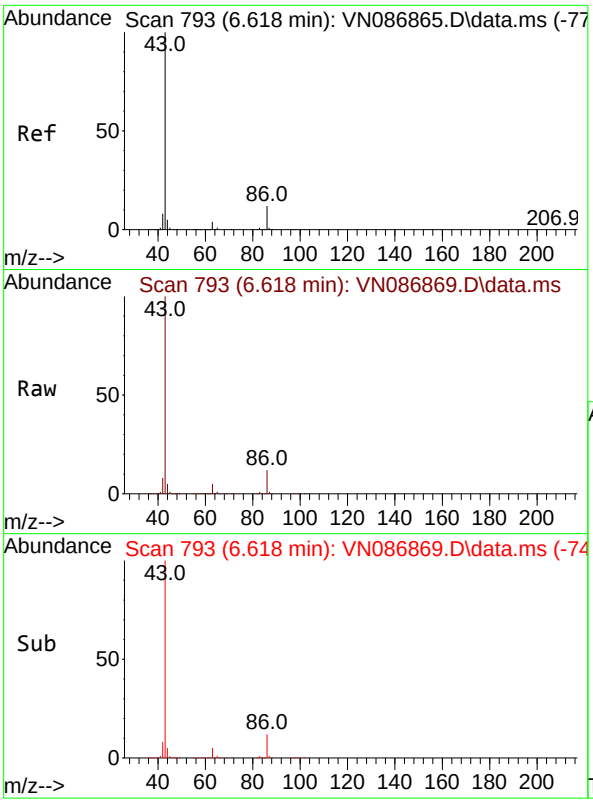


#22
Diisopropyl ether
Concen: 51.853 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 45 Resp: 440080

Ion	Ratio	Lower	Upper
45	100		
43	52.4	41.9	62.9
87	29.5	22.4	33.6
59	12.4	9.8	14.6



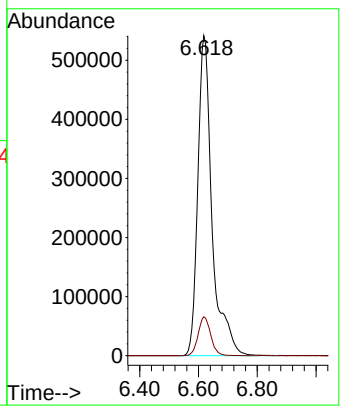


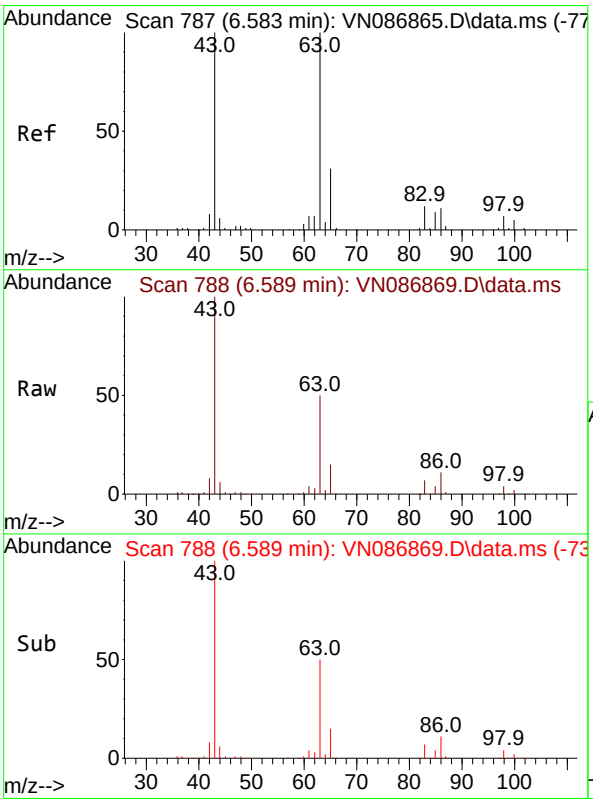
#23
Vinyl Acetate
Concen: 255.055 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 43 Resp: 1828919

Ion	Ratio	Lower	Upper
43	100		
86	12.1	9.5	14.3

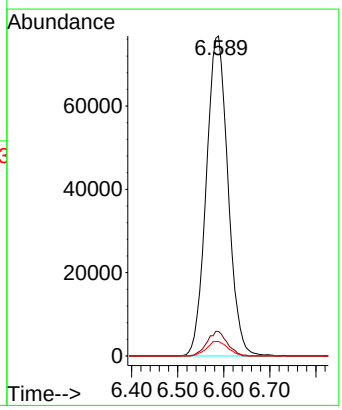


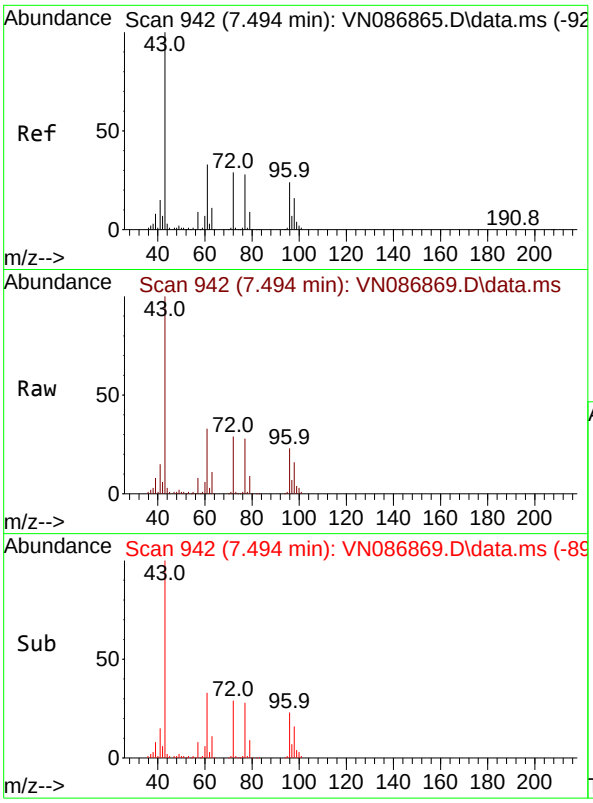


#24
1,1-Dichloroethane
Concen: 51.487 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 63 Resp: 251473

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.6	10.8
100	4.6	2.6	7.8



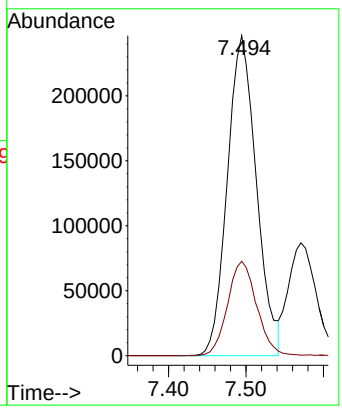


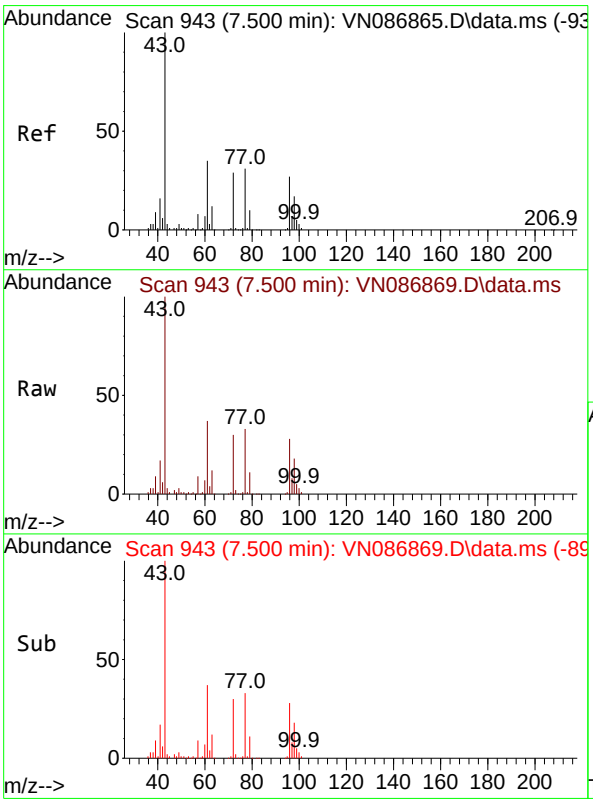
#25
2-Butanone
Concen: 255.897 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 43 Resp: 644194

Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.0	34.6

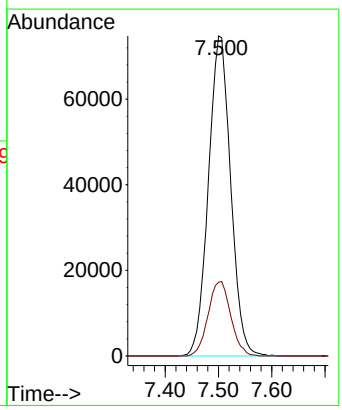


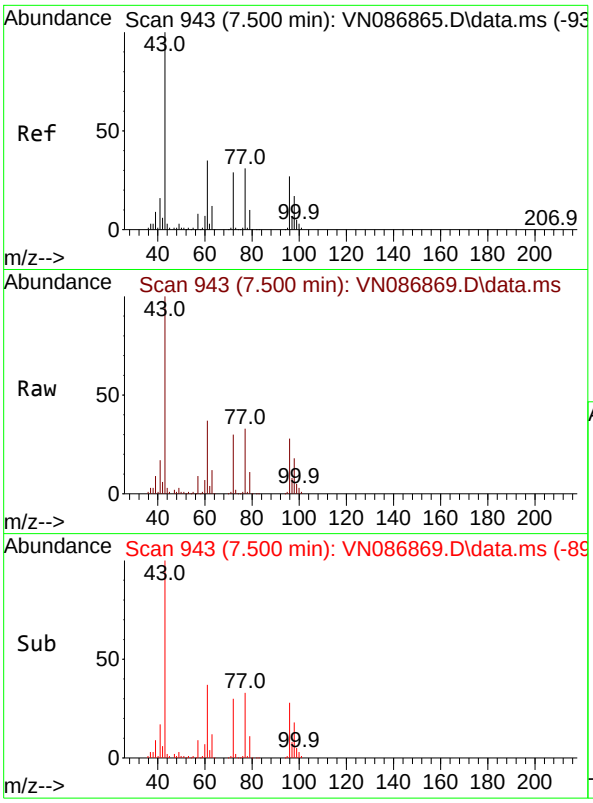


#26
2,2-Dichloropropane
Concen: 57.031 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 77 Resp: 216678

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.6	34.7



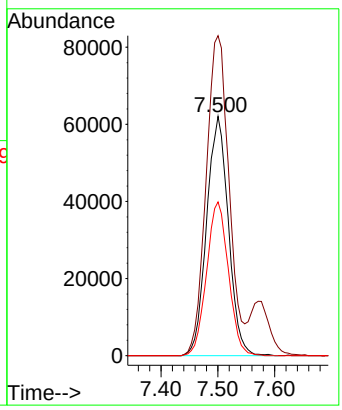


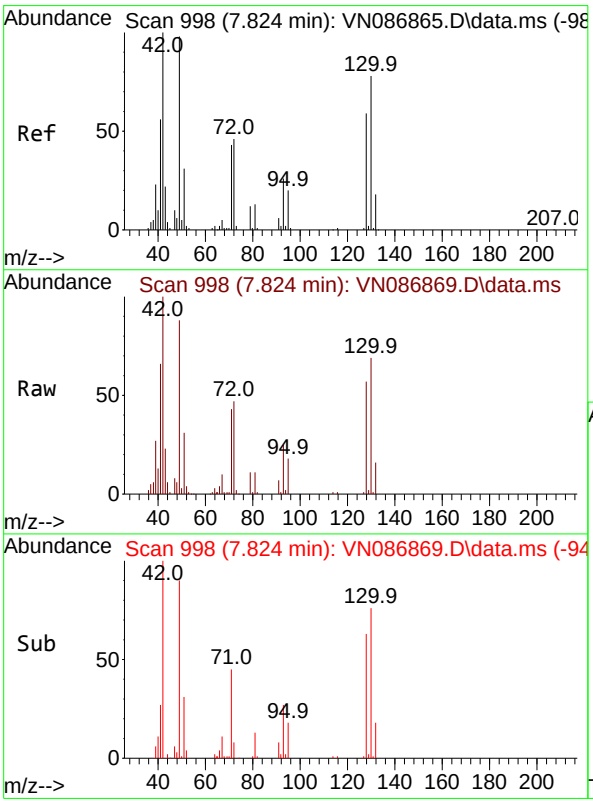
#27
cis-1,2-Dichloroethene
Concen: 51.073 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 96 Resp: 164985

Ion	Ratio	Lower	Upper
96	100		
61	140.3	0.0	278.0
98	64.5	0.0	128.2

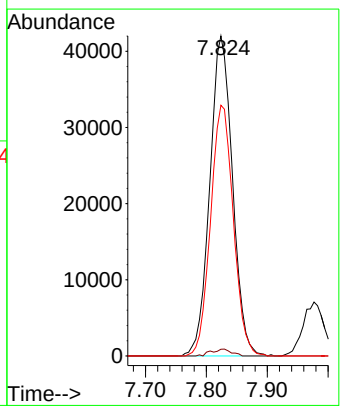


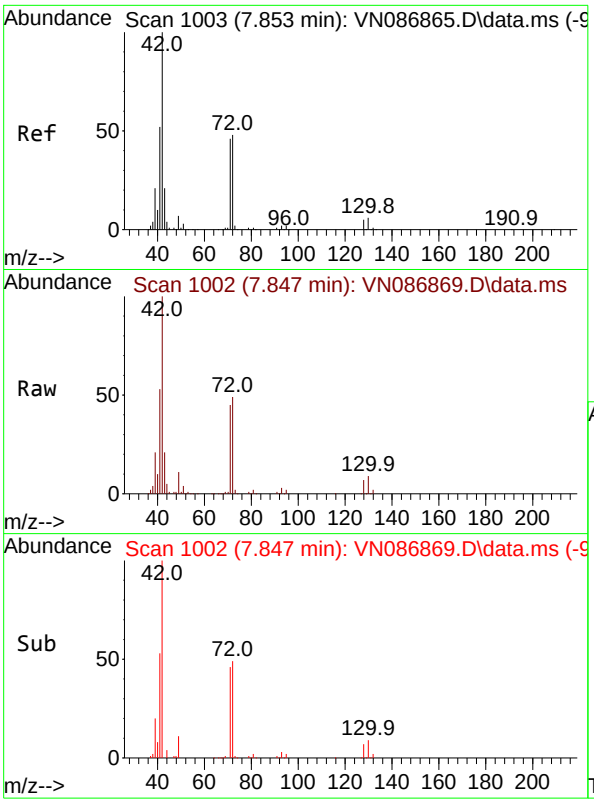


#28
Bromochloromethane
Concen: 45.310 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 49 Resp: 108810

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	78.5	62.2	93.2



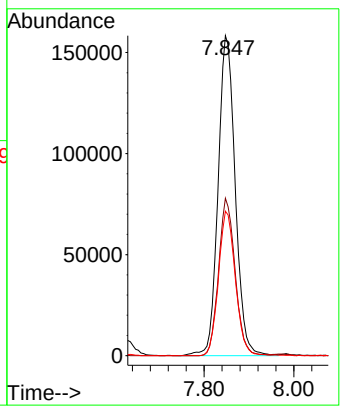


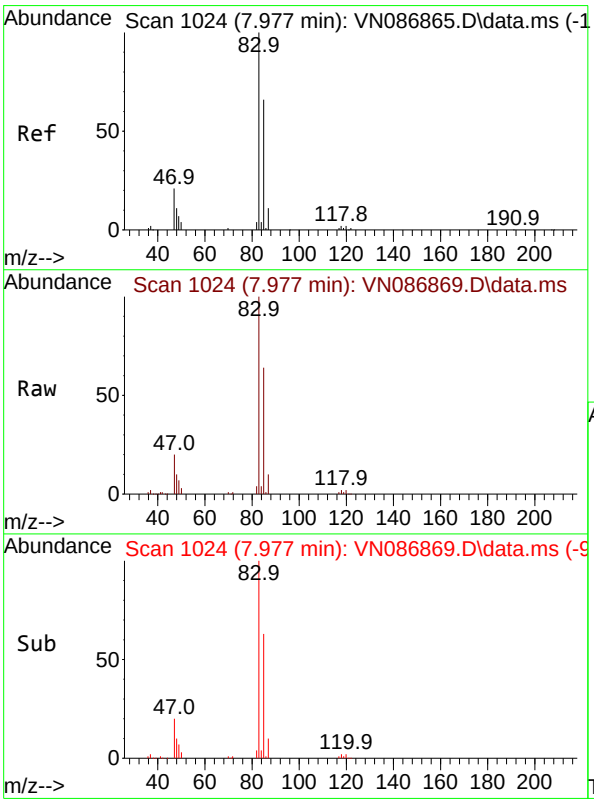
#29
Tetrahydrofuran
Concen: 256.656 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 42 Resp: 420891

Ion	Ratio	Lower	Upper
42	100		
72	47.5	37.8	56.6
71	44.5	35.6	53.4

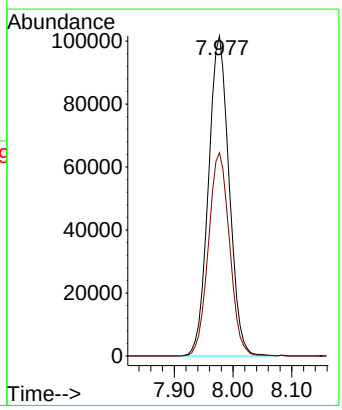


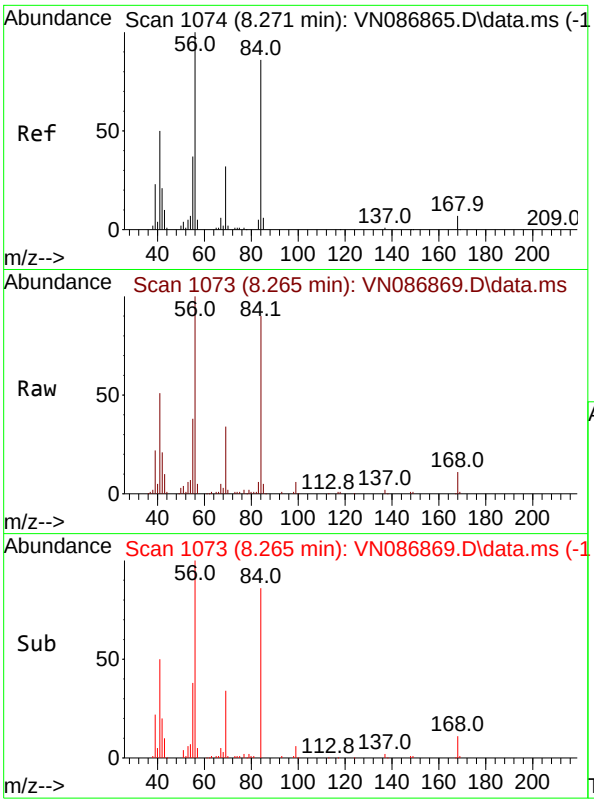


#30
Chloroform
Concen: 50.933 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 83 Resp: 248429

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.9	79.3



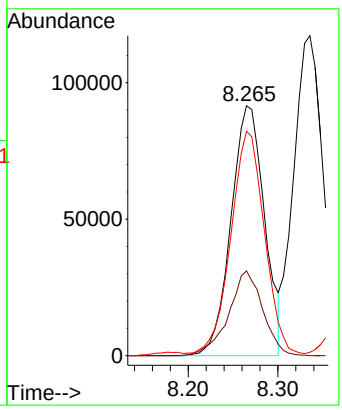


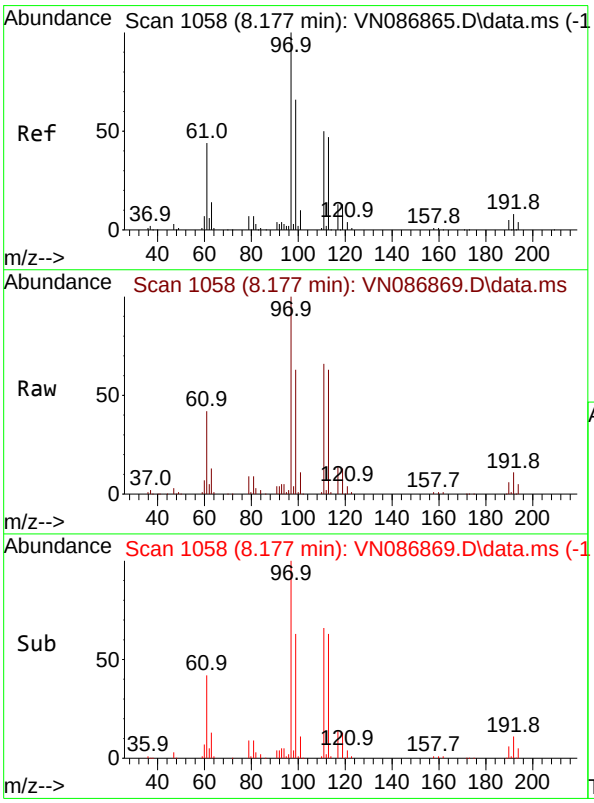
#31
Cyclohexane
Concen: 50.212 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 56 Resp: 237836

Ion	Ratio	Lower	Upper
56	100		
69	33.9	25.4	38.0
84	88.4	68.8	103.2

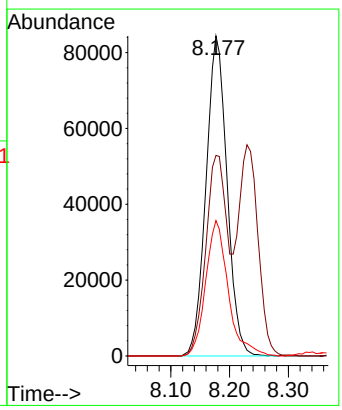


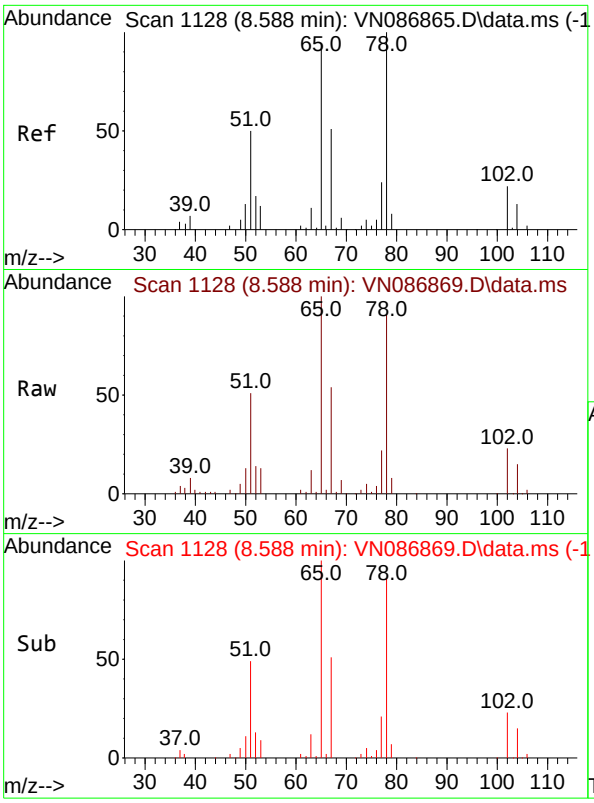


#32
1,1,1-Trichloroethane
Concen: 50.603 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 97 Resp: 209927

Ion	Ratio	Lower	Upper
97	100		
99	61.7	52.0	78.0
61	45.4	35.9	53.9



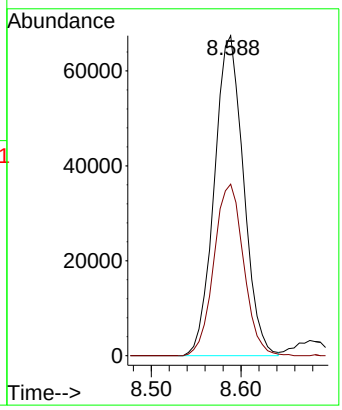


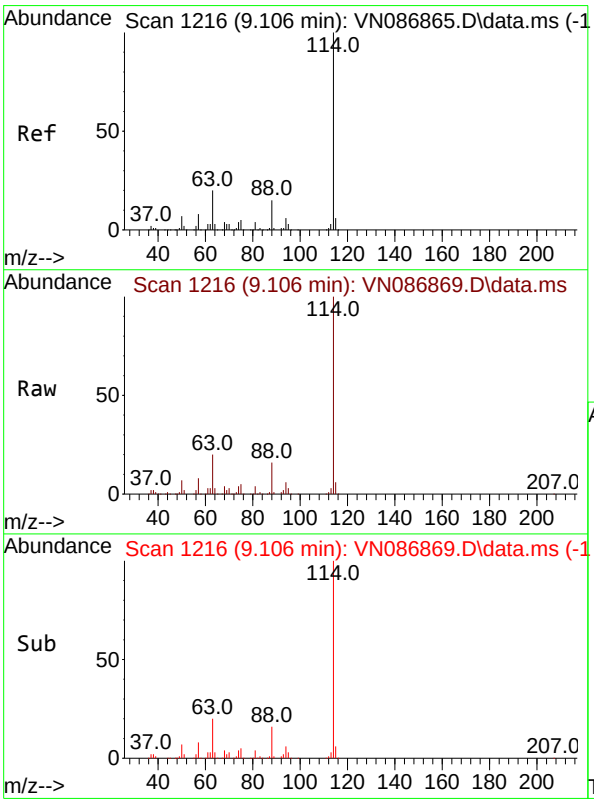
#33
1,2-Dichloroethane-d4
Concen: 52.135 ug/l
RT: 8.588 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 65 Resp: 152255

Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	105.6

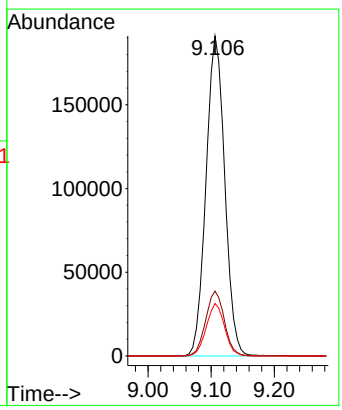


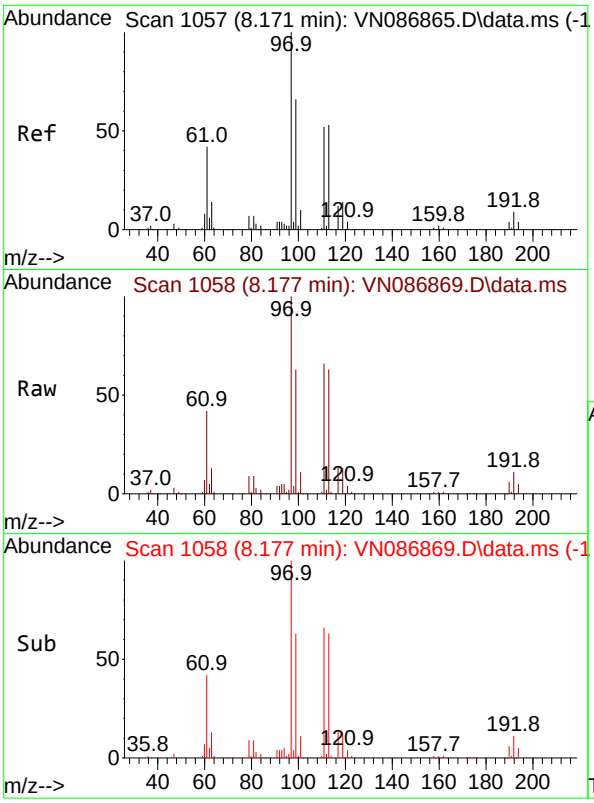


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:114 Resp: 394140

Ion	Ratio	Lower	Upper
114	100		
63	20.2	0.0	39.6
88	16.4	0.0	30.2



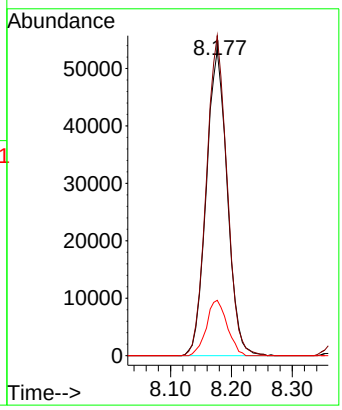


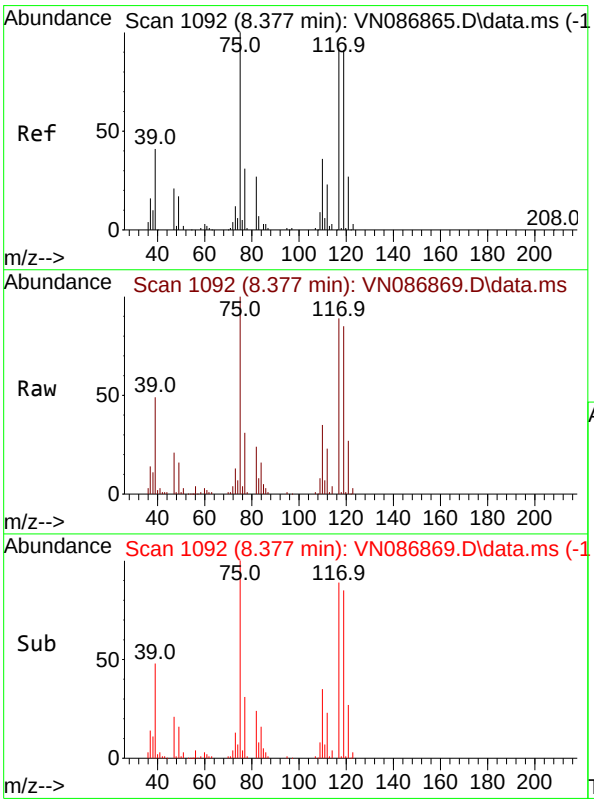
#35
Dibromofluoromethane
Concen: 54.416 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:113 Resp: 127102

Ion	Ratio	Lower	Upper
113	100		
111	103.4	84.2	126.2
192	18.0	14.2	21.4

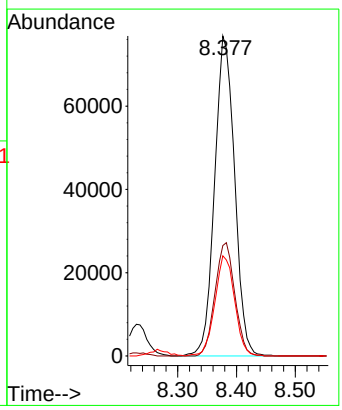


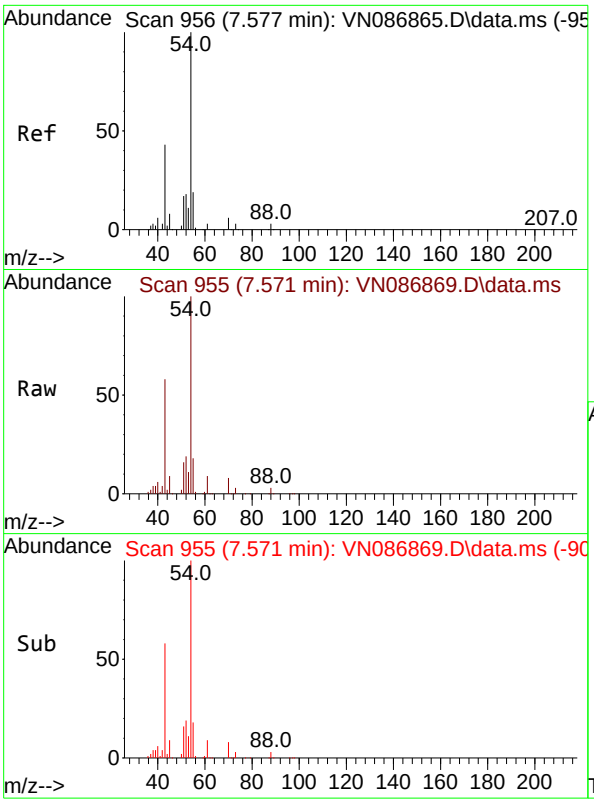


#36
1,1-Dichloropropene
Concen: 52.123 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 75 Resp: 181414

Ion	Ratio	Lower	Upper
75	100		
110	35.0	17.6	52.9
77	31.0	25.3	37.9



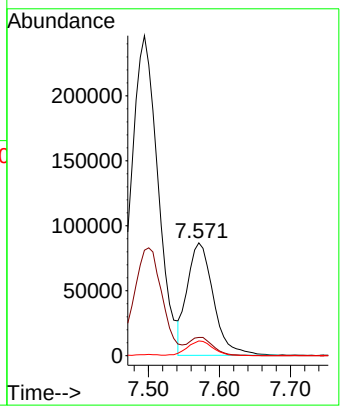


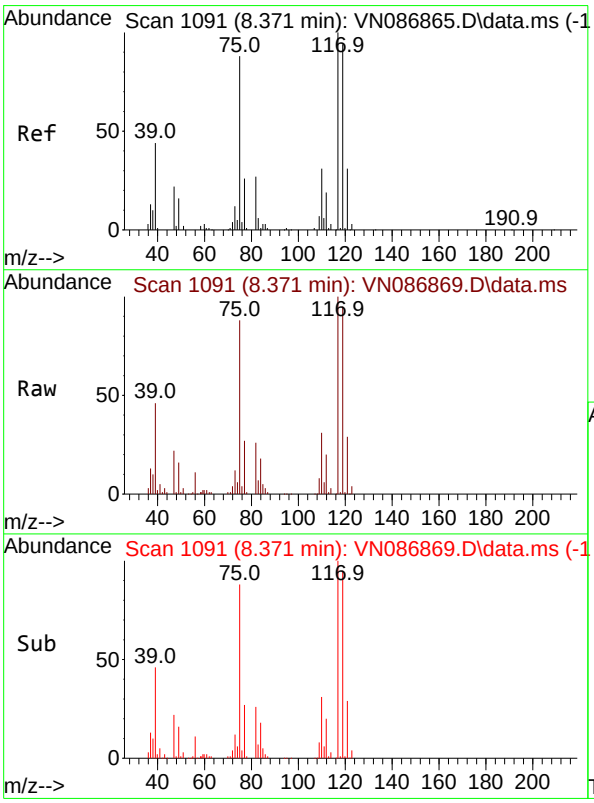
#37
Ethyl Acetate
Concen: 50.125 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 43 Resp: 222090

Ion	Ratio	Lower	Upper
43	100		
61	15.6	12.1	18.1
70	12.9	9.8	14.6

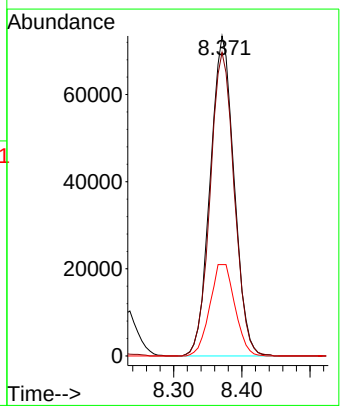


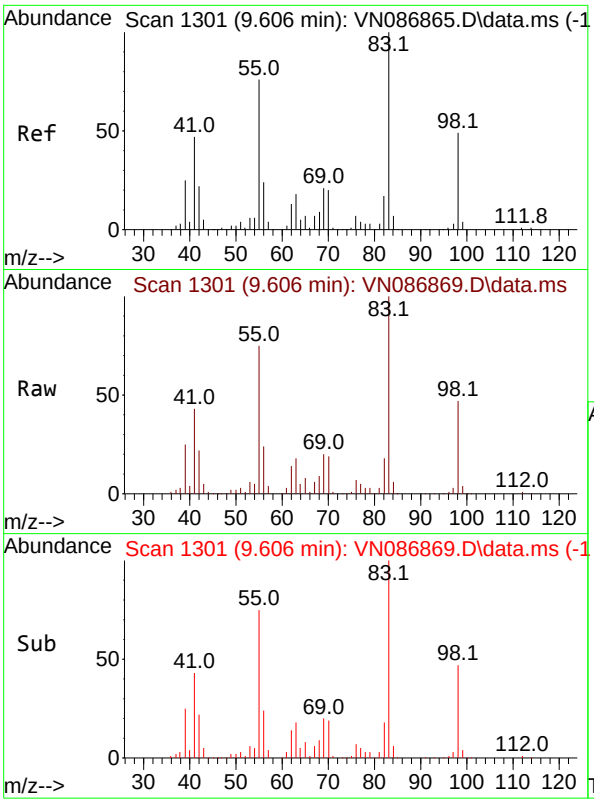


#38
Carbon Tetrachloride
Concen: 52.466 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:117 Resp: 179281

Ion	Ratio	Lower	Upper
117	100		
119	94.8	75.0	112.6
121	28.5	24.9	37.3



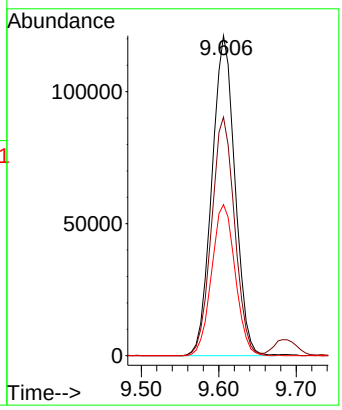


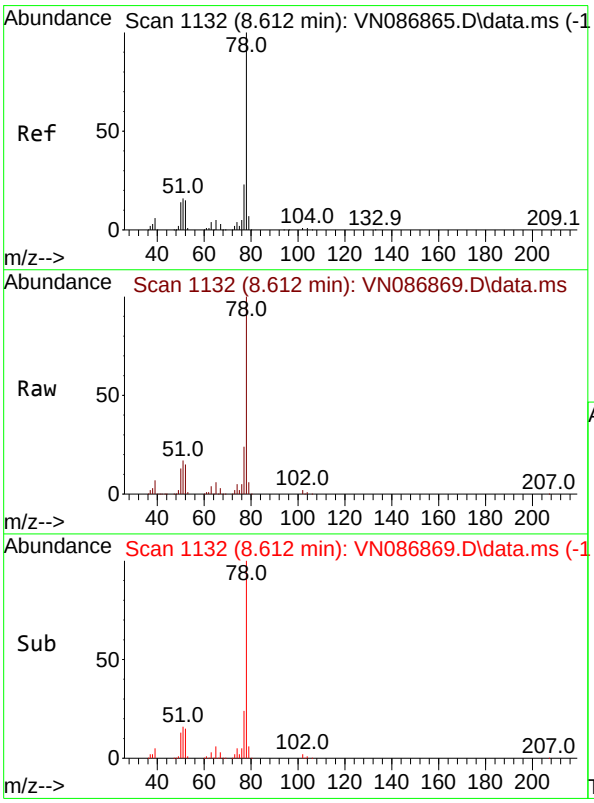
#39
Methylcyclohexane
Concen: 52.686 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 83 Resp: 251231

Ion	Ratio	Lower	Upper
83	100		
55	74.5	61.0	91.6
98	47.2	38.9	58.3

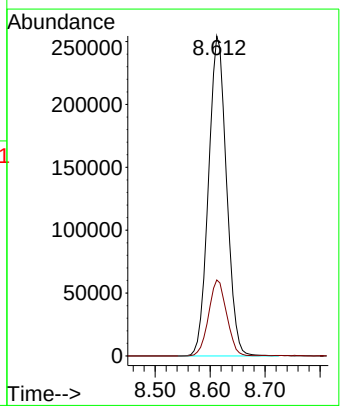


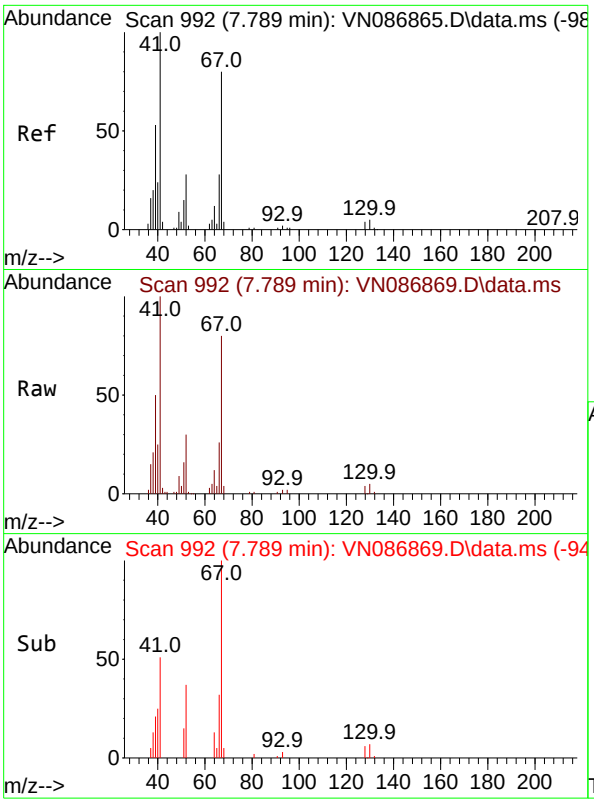


#40
Benzene
Concen: 50.931 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 78 Resp: 579667

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.7	28.1



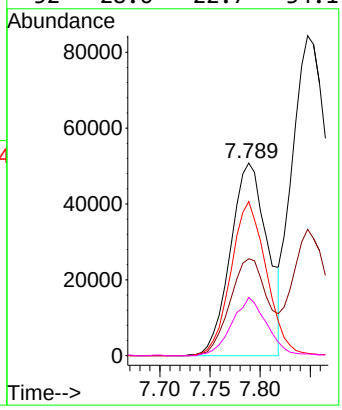


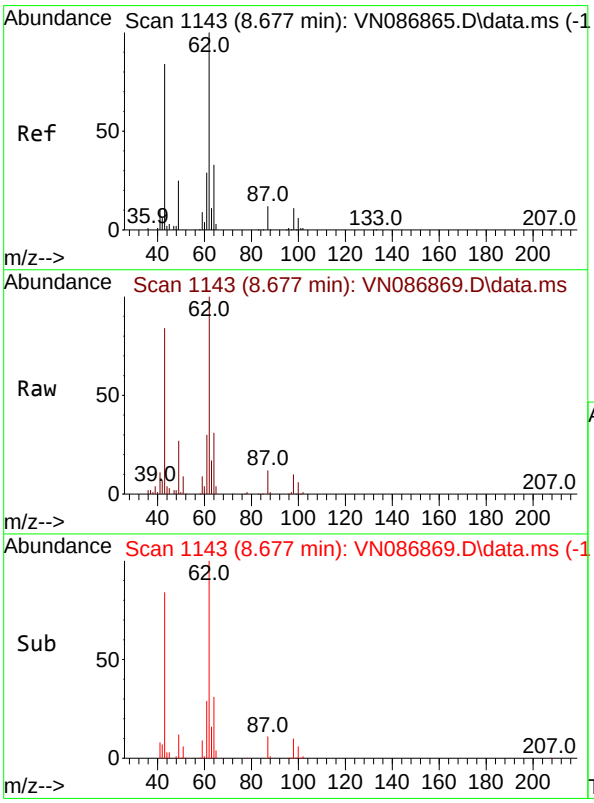
#41
Methacrylonitrile
Concen: 52.607 ug/l
RT: 7.789 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 41 Resp: 130903

Ion	Ratio	Lower	Upper
41	100		
39	51.3	41.2	61.8
67	76.9	61.4	92.2
52	28.6	22.7	34.1

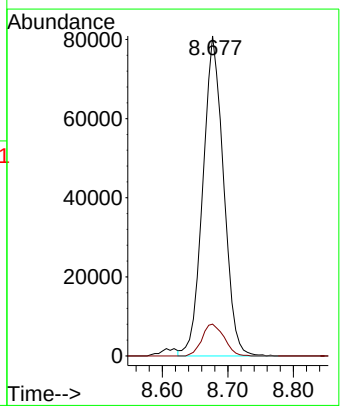


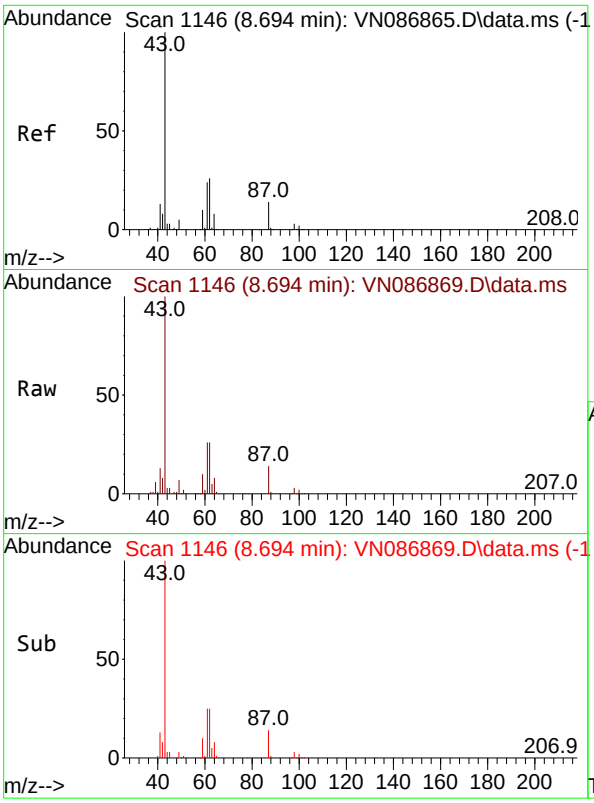


#42
1,2-Dichloroethane
Concen: 51.489 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 62 Resp: 177746

Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	21.2



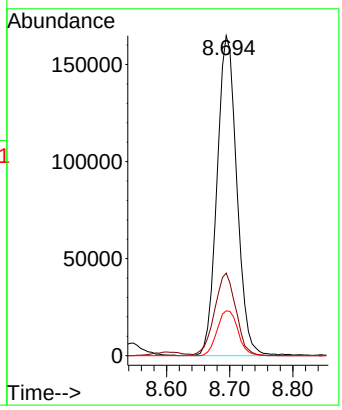


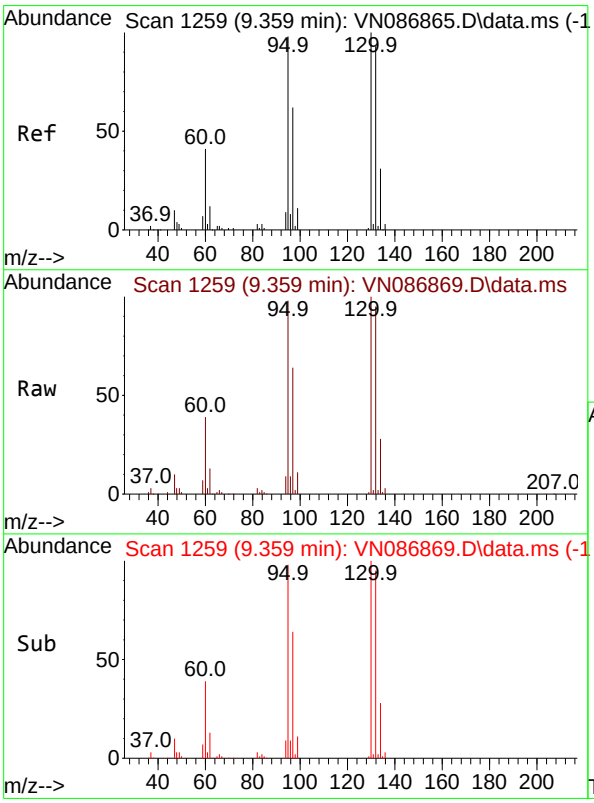
#43
Isopropyl Acetate
Concen: 50.536 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 43 Resp: 359378

Ion	Ratio	Lower	Upper
43	100		
61	27.9	22.1	33.1
87	14.8	11.8	17.6

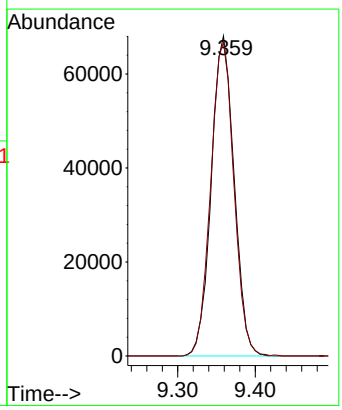


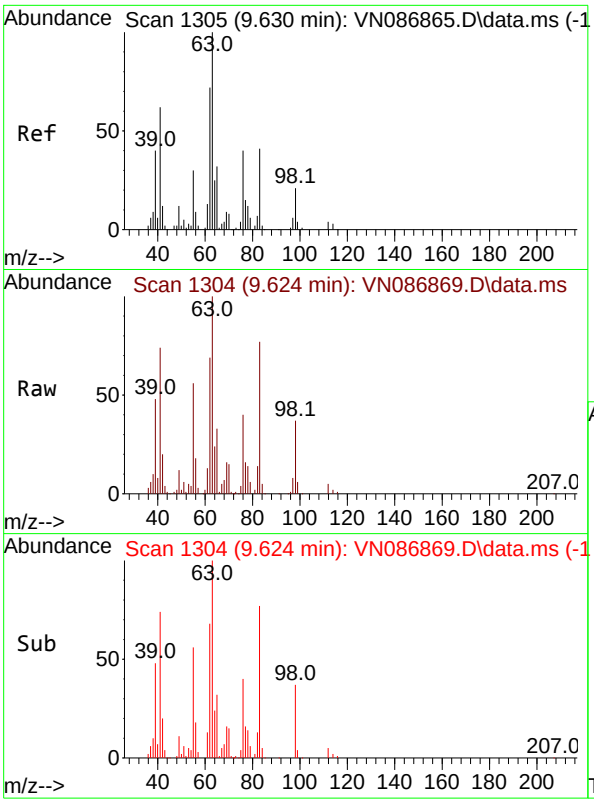


#44
Trichloroethene
Concen: 51.788 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:130 Resp: 139763

Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	196.2



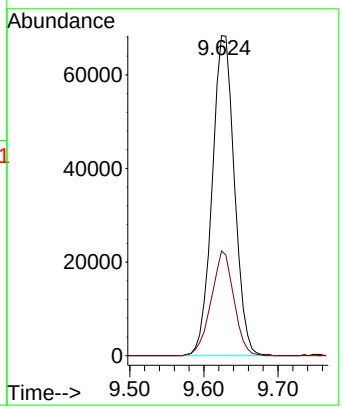


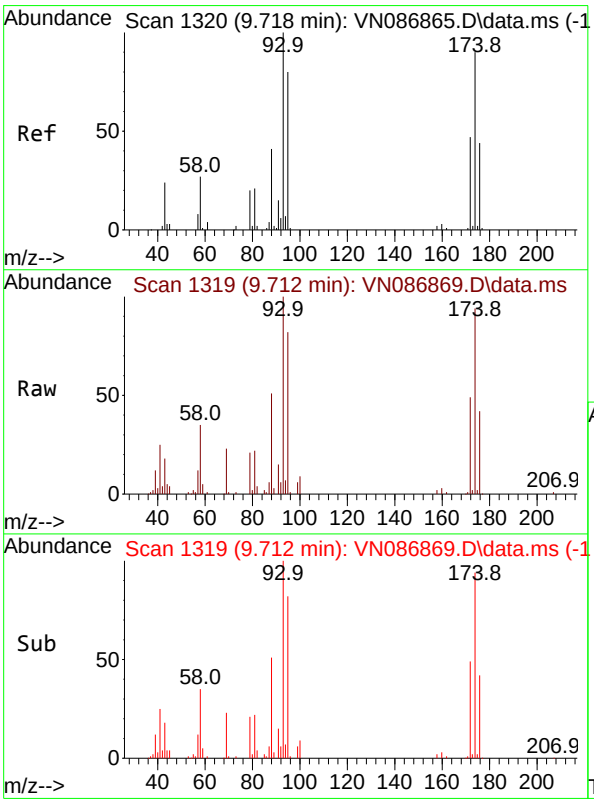
#45
1,2-Dichloropropane
Concen: 51.450 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 63 Resp: 142463

Ion	Ratio	Lower	Upper
63	100		
65	32.7	25.5	38.3

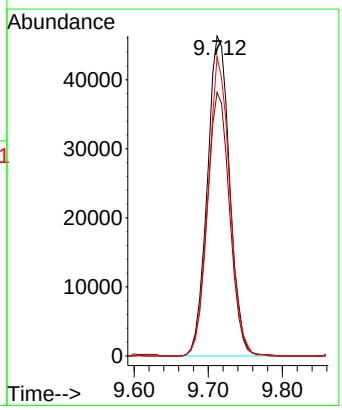


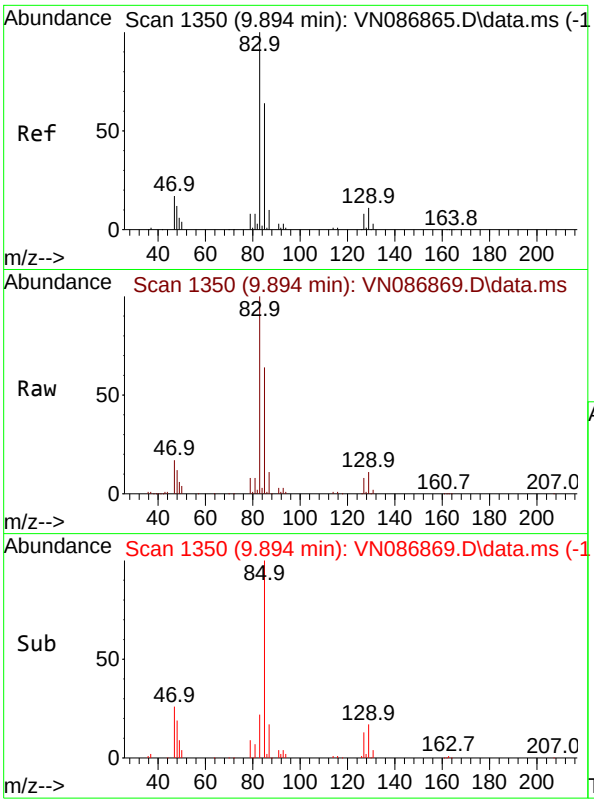


#46
Dibromomethane
Concen: 52.849 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 93 Resp: 97199

Ion	Ratio	Lower	Upper
93	100		
95	82.2	67.1	100.7
174	90.9	74.2	111.4



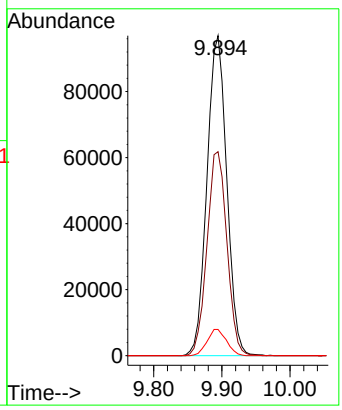


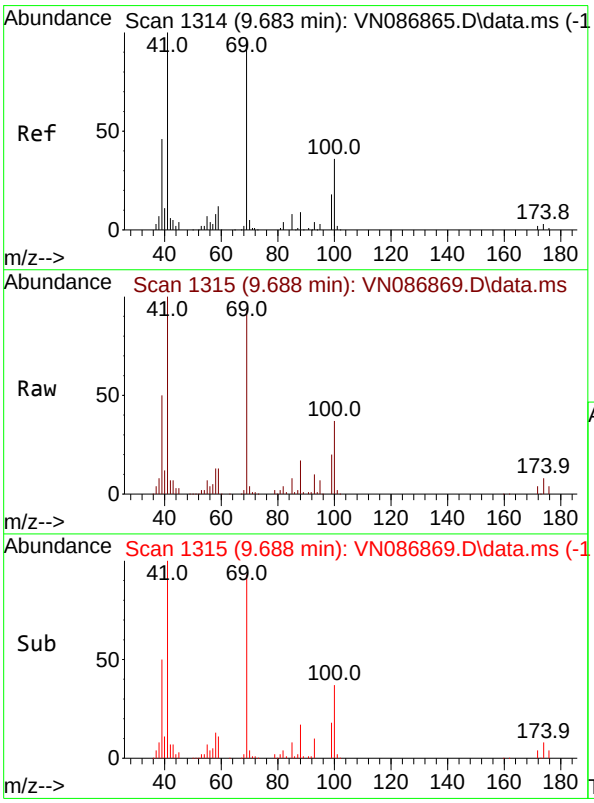
#47
Bromodichloromethane
Concen: 51.824 ug/l
RT: 9.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 83 Resp: 196104

Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.9	76.3
127	8.2	6.6	10.0

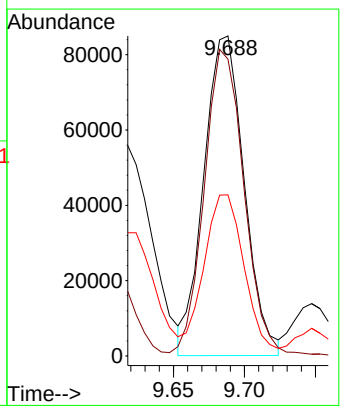


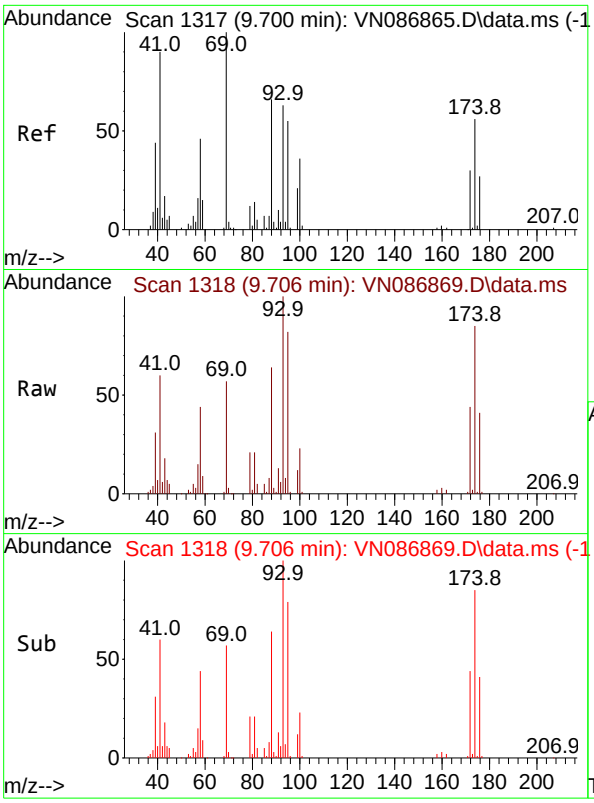


#48
Methyl methacrylate
Concen: 51.328 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 41 Resp: 168001

Ion	Ratio	Lower	Upper
41	100		
69	95.2	74.6	112.0
39	51.0	40.2	60.4



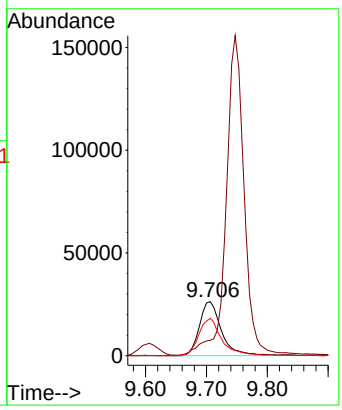


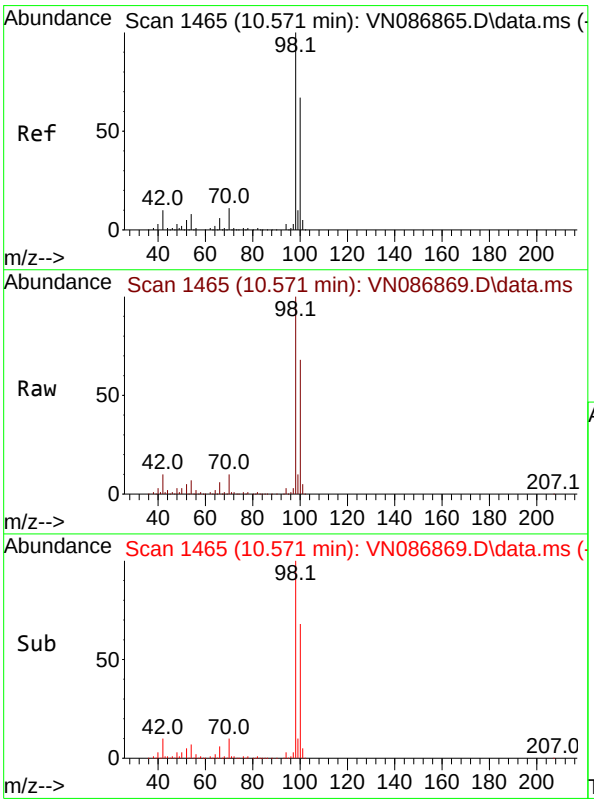
#49
1,4-Dioxane
Concen: 1110.123 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 88 Resp: 66102

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	72.7	57.7	86.5

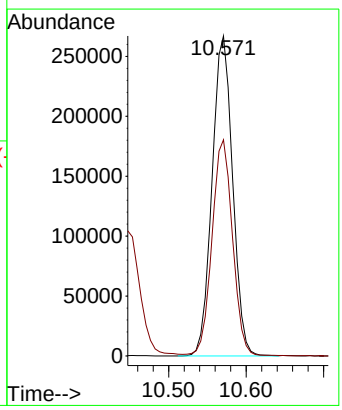


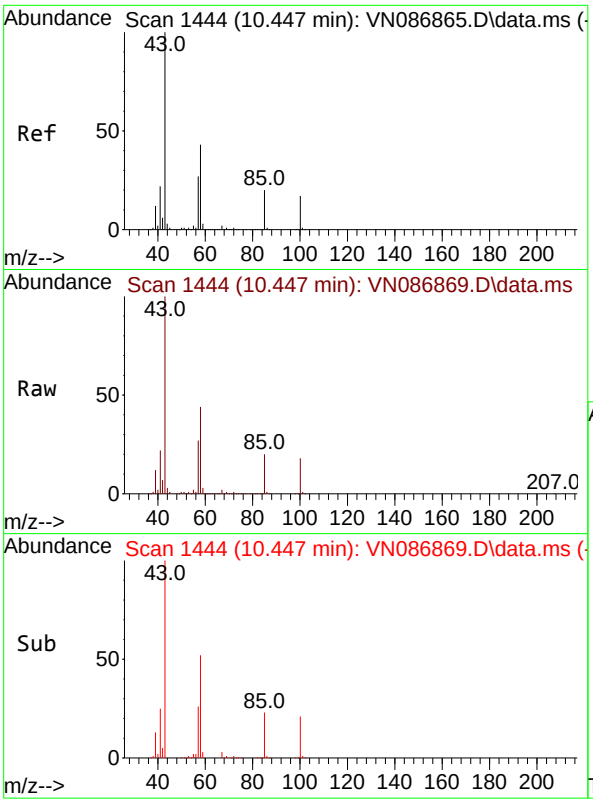


#50
Toluene-d8
Concen: 53.129 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 98 Resp: 491265

Ion	Ratio	Lower	Upper
98	100		
100	67.6	53.4	80.0



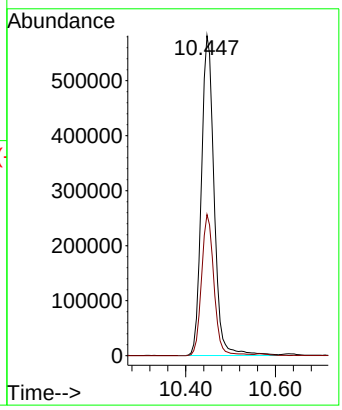


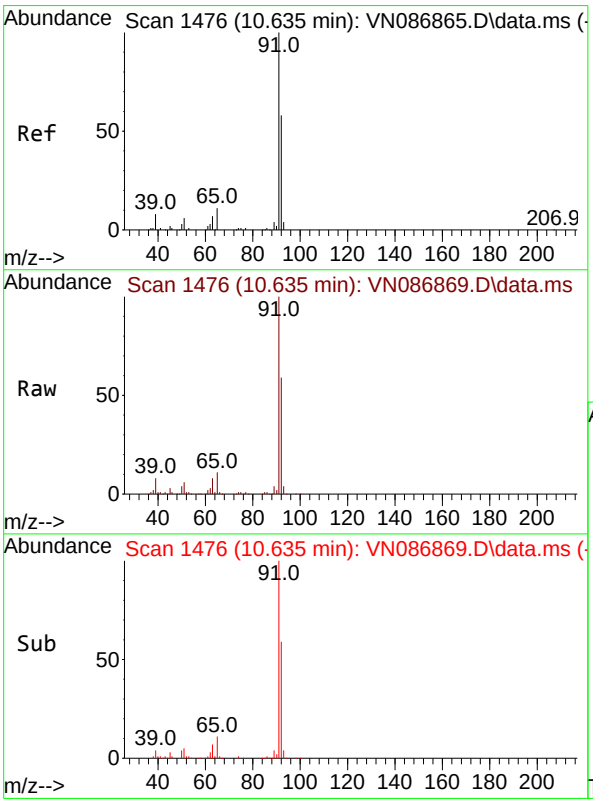
#51
4-Methyl-2-Pentanone
Concen: 267.835 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 43 Resp: 1146622

Ion	Ratio	Lower	Upper
43	100		
58	43.2	34.2	51.4

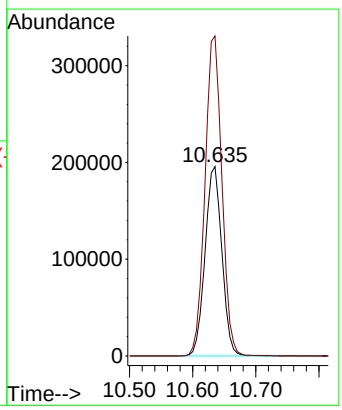


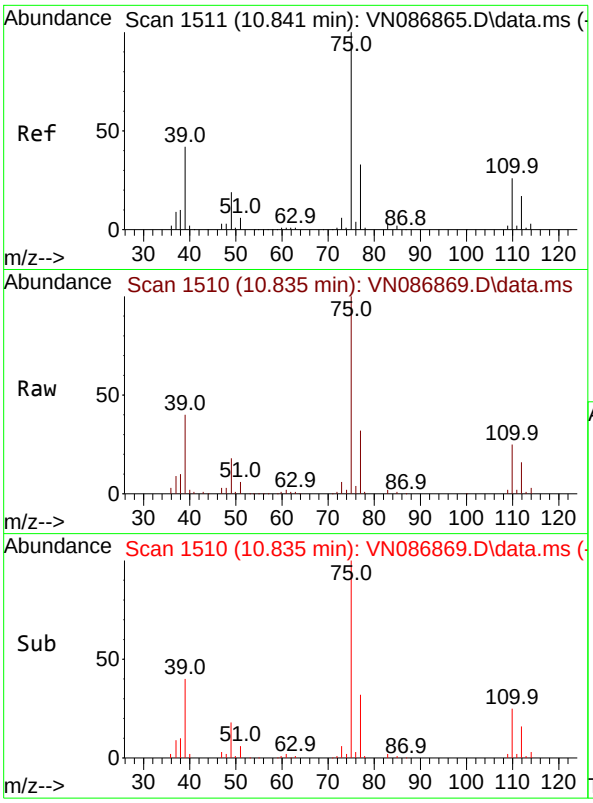


#52
Toluene
Concen: 52.040 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 92 Resp: 361963

Ion	Ratio	Lower	Upper
92	100		
91	169.8	136.5	204.7



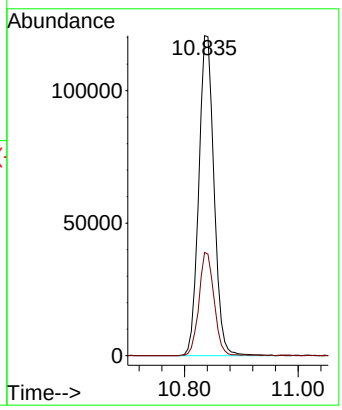


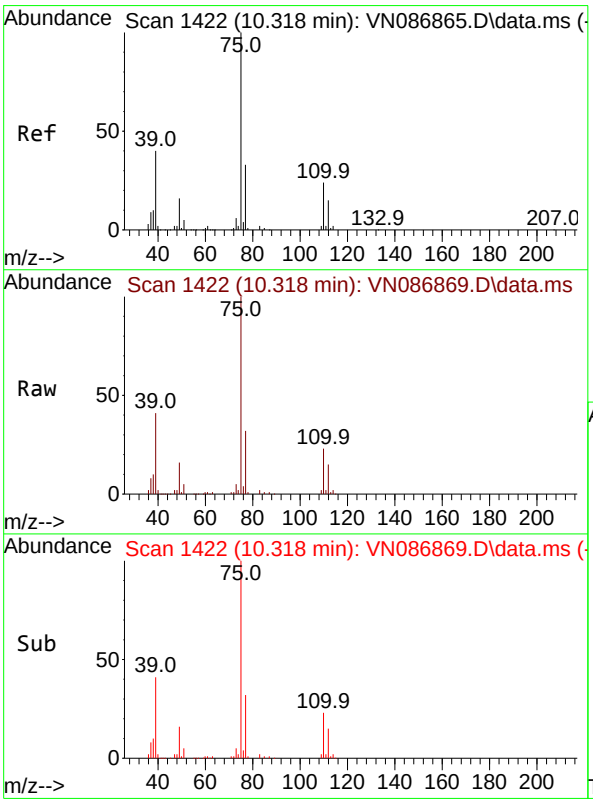
#53
t-1,3-Dichloropropene
Concen: 53.137 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 75 Resp: 224839

Ion	Ratio	Lower	Upper
75	100		
77	32.3	26.4	39.6

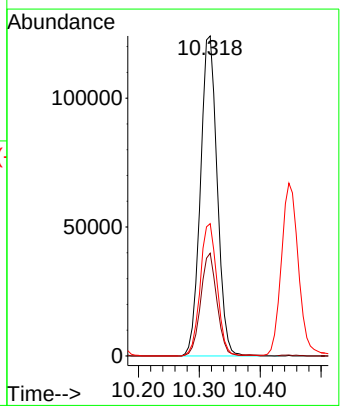


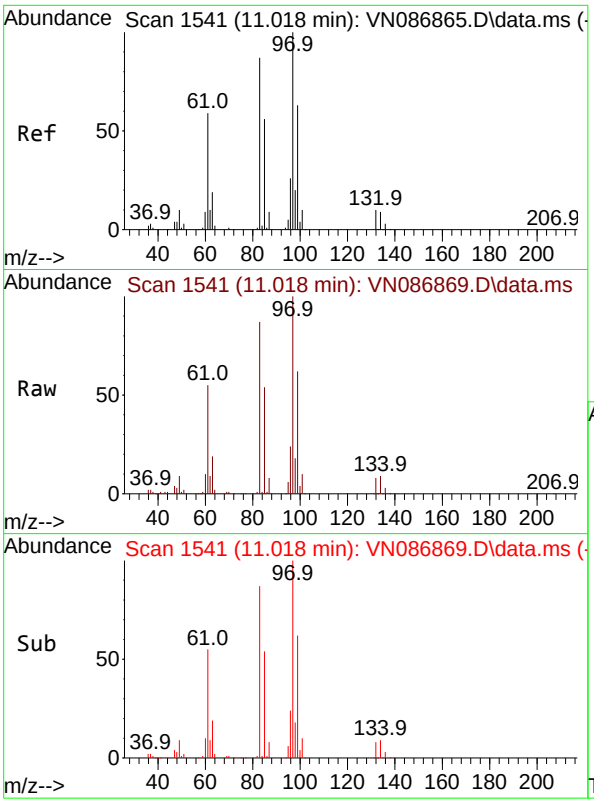


#54
cis-1,3-Dichloropropene
Concen: 52.519 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 75 Resp: 237774

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.2	39.4
39	41.3	32.3	48.5



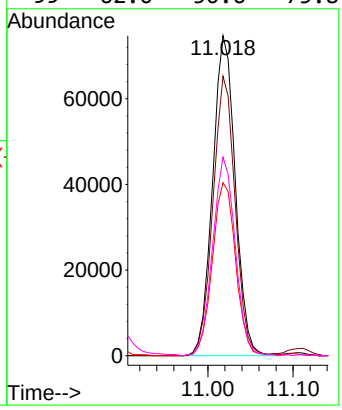


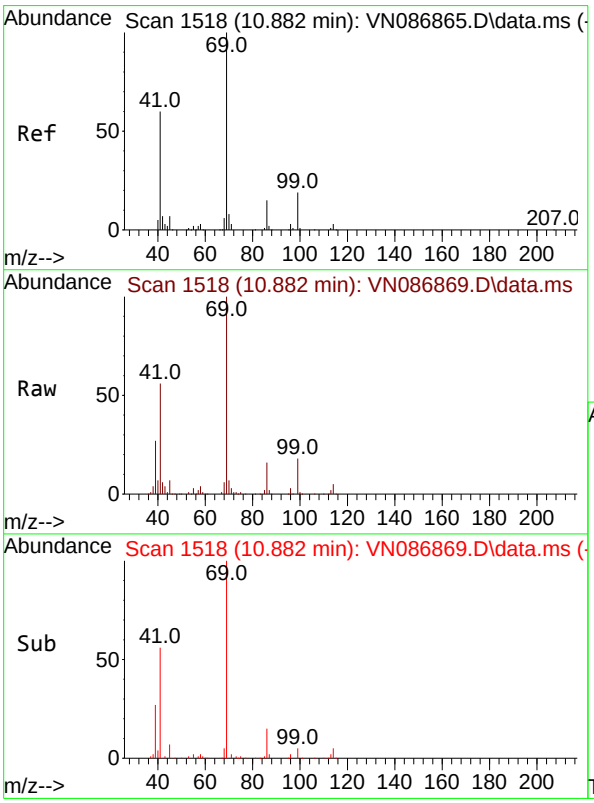
#55
1,1,2-Trichloroethane
Concen: 51.562 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 97 Resp: 137998

Ion	Ratio	Lower	Upper
97	100		
83	87.4	69.7	104.5
85	54.1	45.1	67.7
99	62.0	50.6	75.8

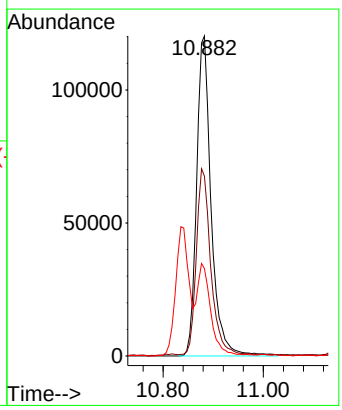


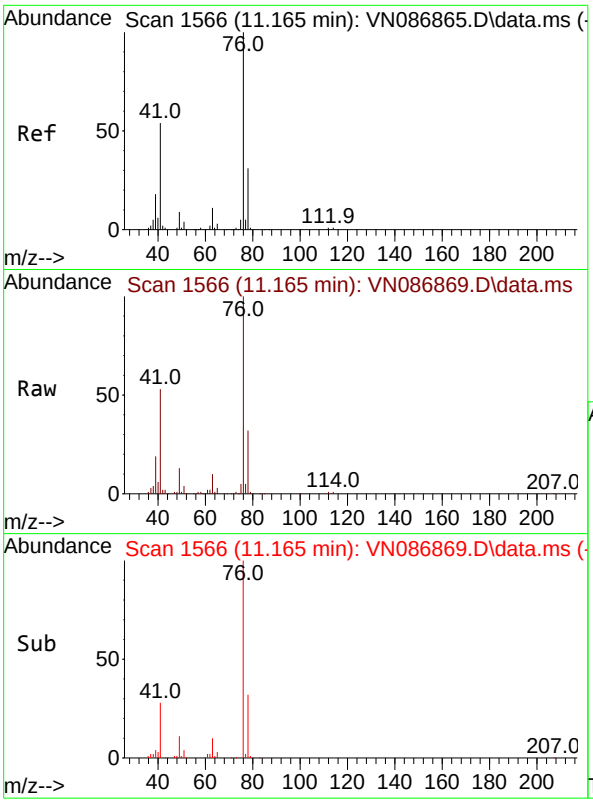


#56
Ethyl methacrylate
Concen: 56.688 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 69 Resp: 241649

Ion	Ratio	Lower	Upper
69	100		
41	57.7	47.2	70.8
39	27.4	23.0	34.6



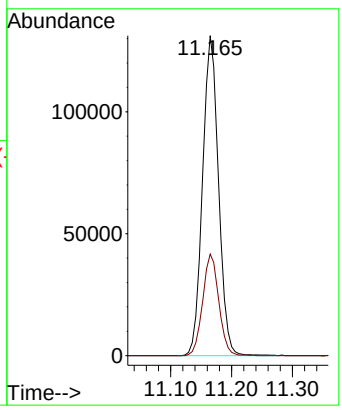


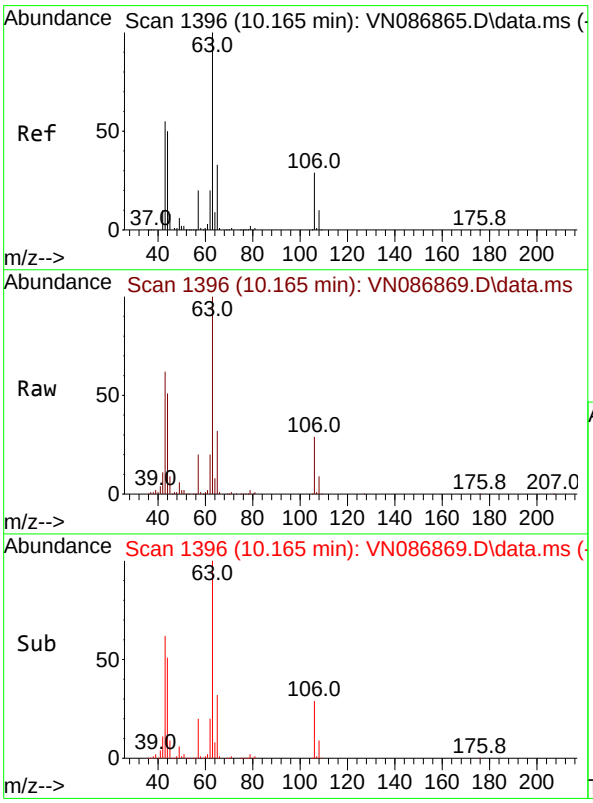
#57
1,3-Dichloropropane
Concen: 51.386 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 76 Resp: 238572

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.3	37.9

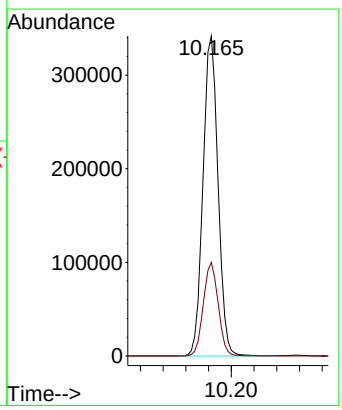


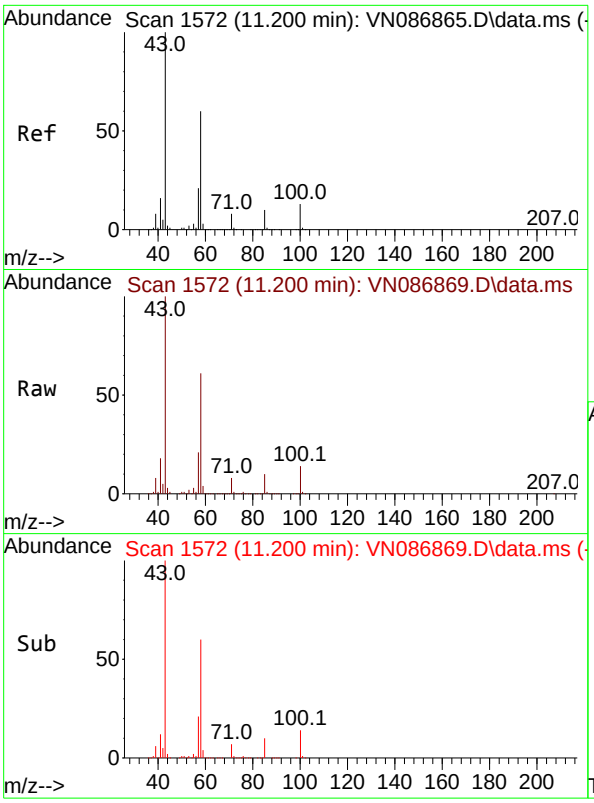


#58
2-Chloroethyl Vinyl ether
Concen: 246.006 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 63 Resp: 625479

Ion	Ratio	Lower	Upper
63	100		
106	28.9	23.0	34.6



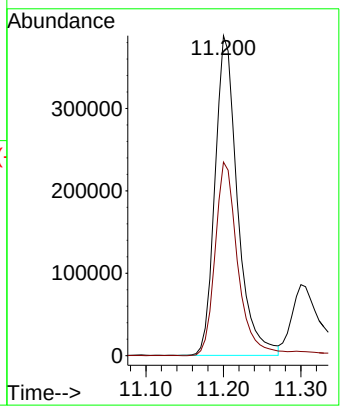


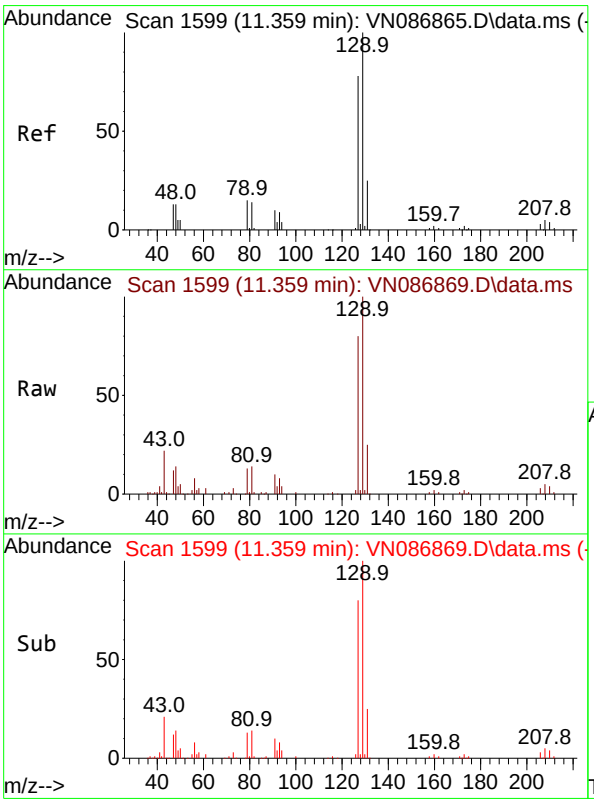
#59
2-Hexanone
Concen: 283.478 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 43 Resp: 781717

Ion	Ratio	Lower	Upper
43	100		
58	61.2	30.4	91.3

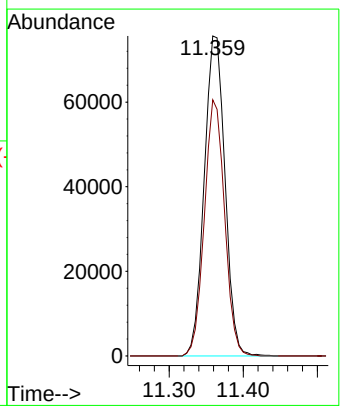


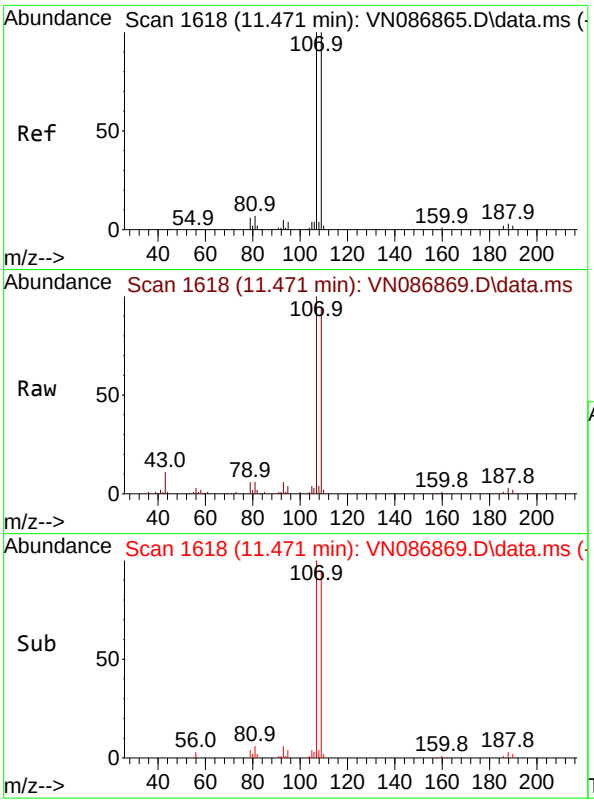


#60
Dibromochloromethane
Concen: 52.627 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:129 Resp: 146749

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.8



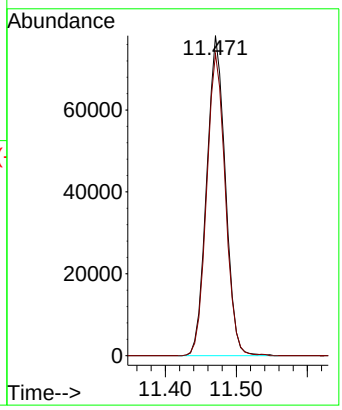


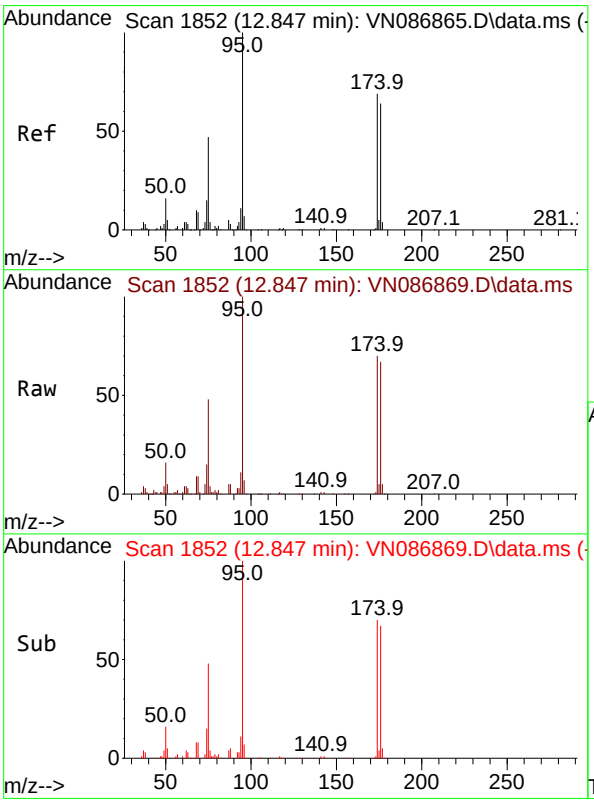
#61
1,2-Dibromoethane
Concen: 51.887 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:107 Resp: 142338

Ion	Ratio	Lower	Upper
107	100		
109	94.5	76.3	114.5

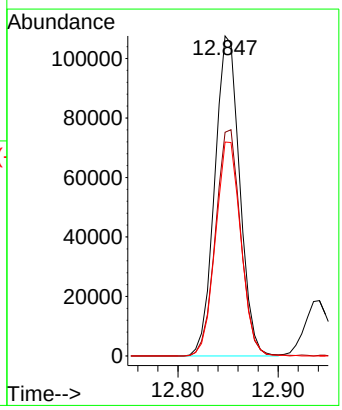


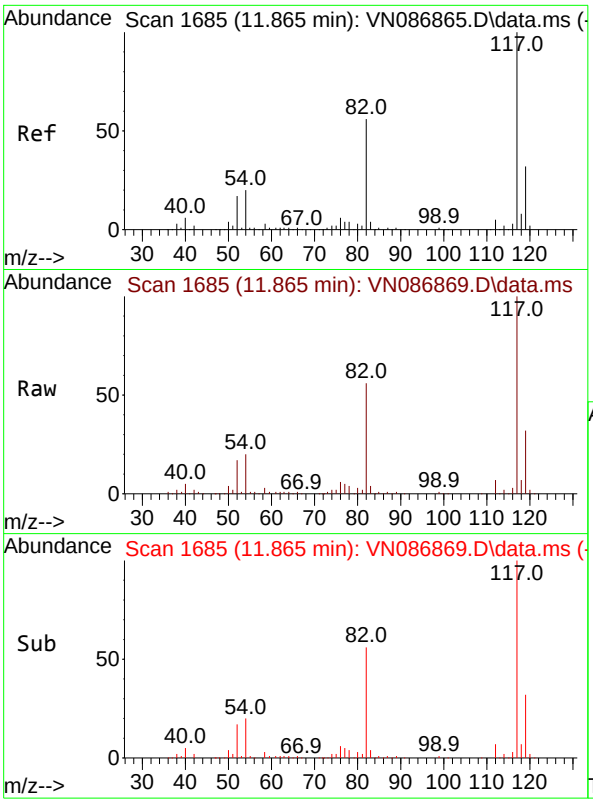


#62
4-Bromofluorobenzene
Concen: 54.081 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 95 Resp: 185792

Ion	Ratio	Lower	Upper
95	100		
174	71.4	0.0	141.8
176	68.1	0.0	132.6



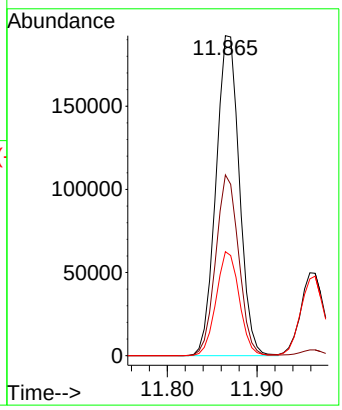


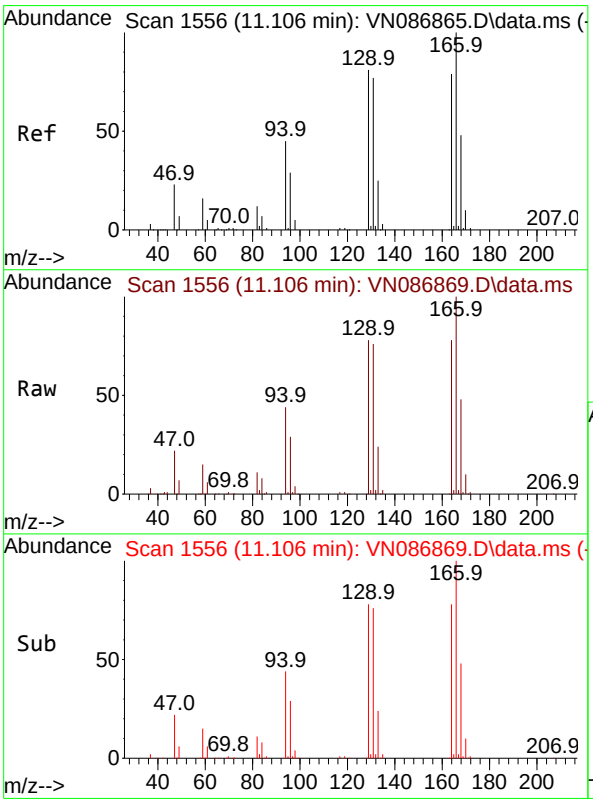
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:117 Resp: 348935

Ion	Ratio	Lower	Upper
117	100		
82	56.5	44.6	67.0
119	32.5	25.5	38.3

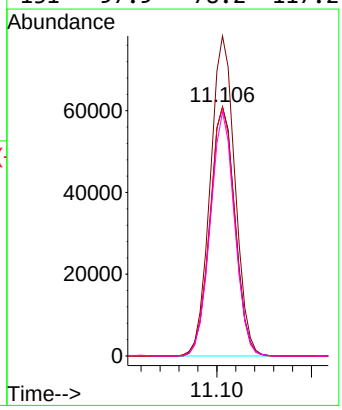


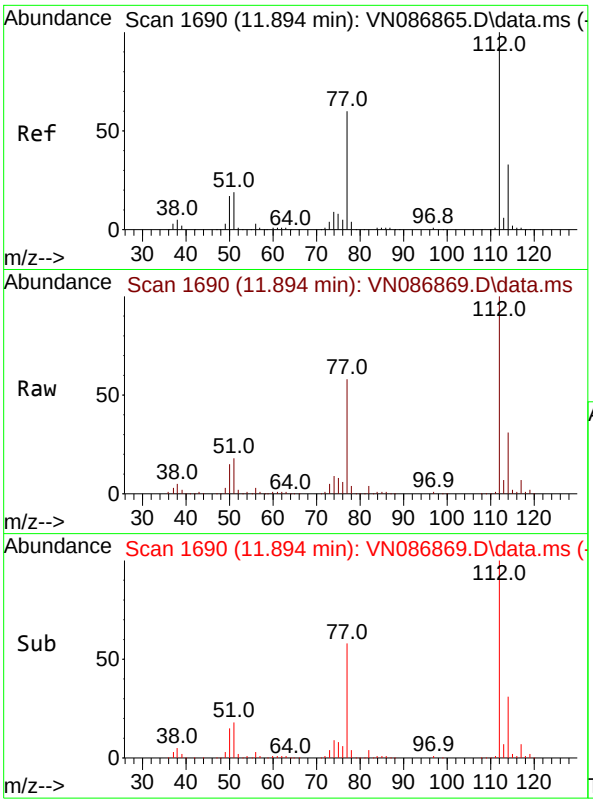


#64
Tetrachloroethene
Concen: 50.450 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:164 Resp: 111409

Ion	Ratio	Lower	Upper
164	100		
166	128.5	101.8	152.8
129	99.9	83.0	124.4
131	97.9	78.2	117.2



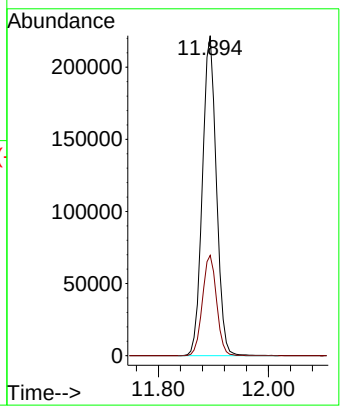


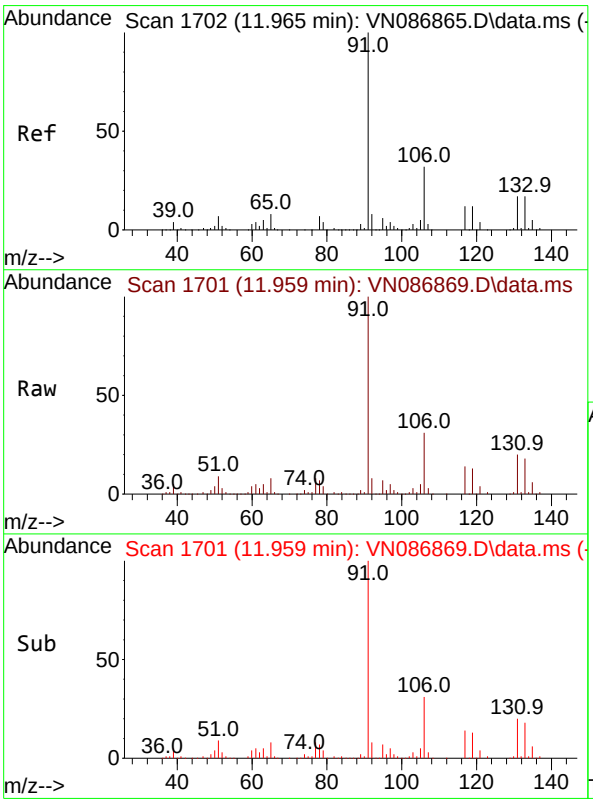
#65
Chlorobenzene
Concen: 50.892 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:112 Resp: 391661

Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.2	39.2

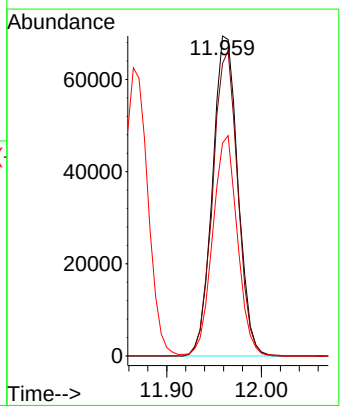


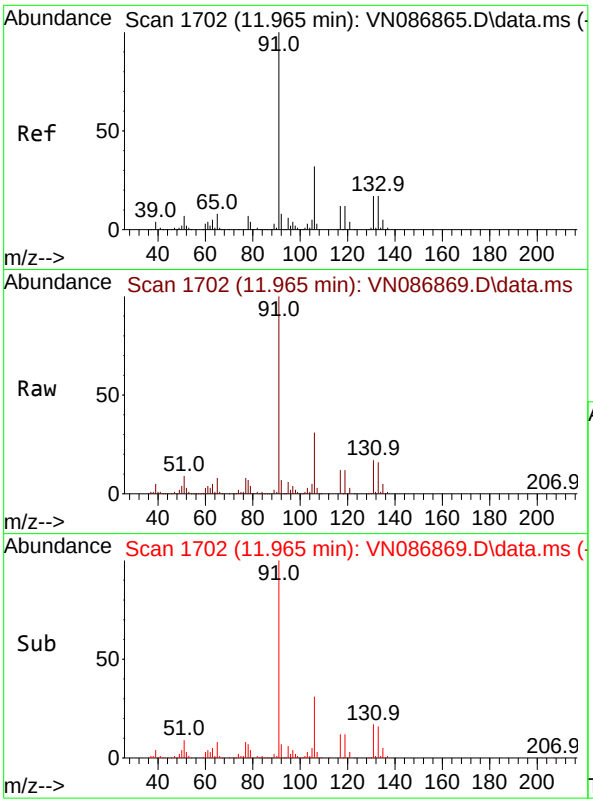


#66
1,1,1,2-Tetrachloroethane
Concen: 52.164 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:131 Resp: 129045

Ion	Ratio	Lower	Upper
131	100		
133	94.5	48.3	144.8
119	67.4	34.0	101.8



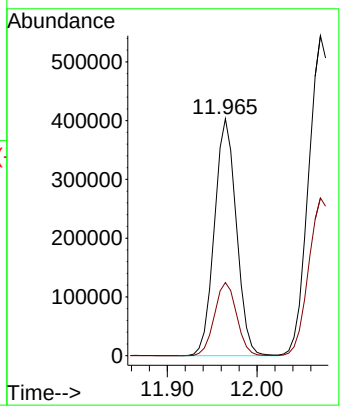


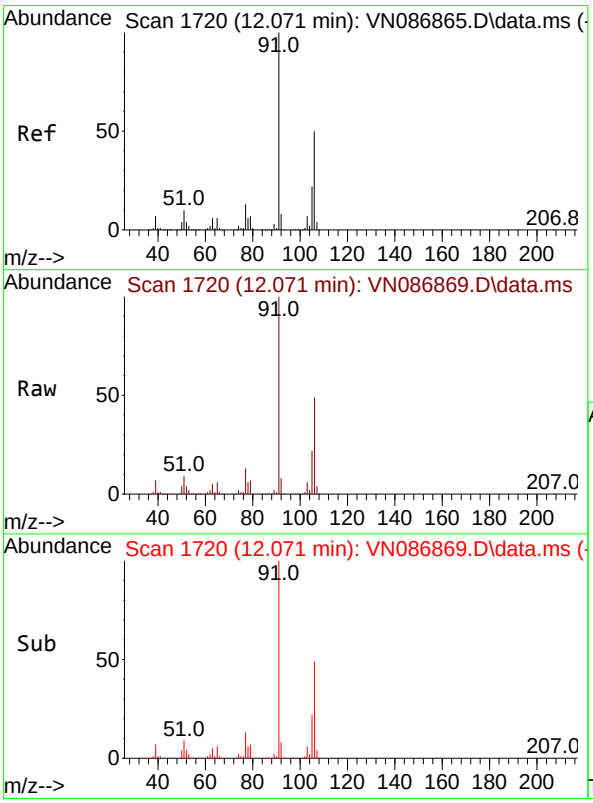
#67
Ethyl Benzene
Concen: 51.590 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 91 Resp: 683879

Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.4	38.2

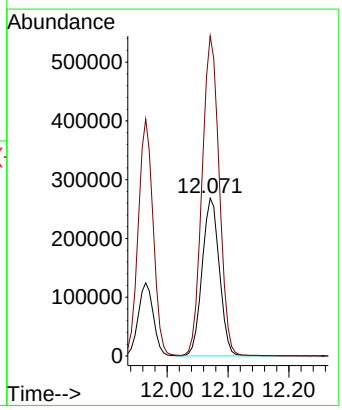


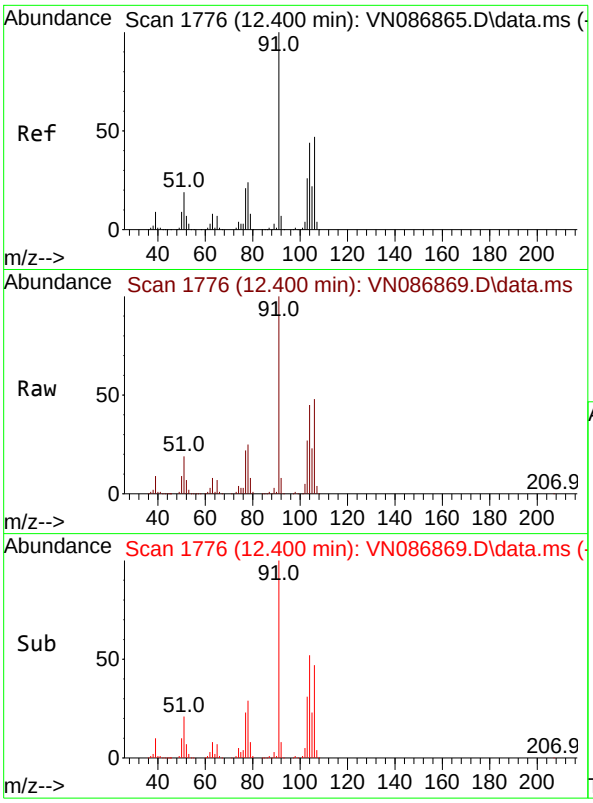


#68
m/p-Xylenes
Concen: 103.912 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:106 Resp: 527293

Ion	Ratio	Lower	Upper
106	100		
91	202.0	159.4	239.0



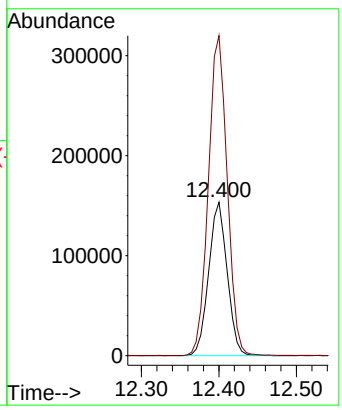


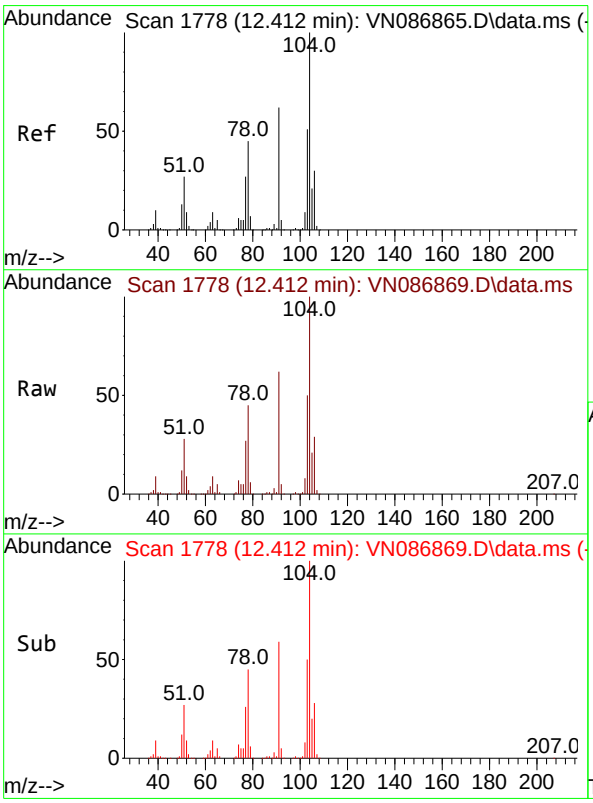
#69
o-Xylene
Concen: 52.387 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:106 Resp: 254600

Ion	Ratio	Lower	Upper
106	100		
91	212.8	106.1	318.1

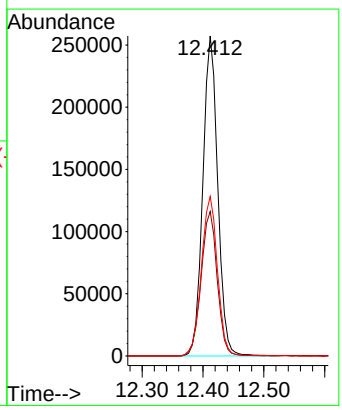


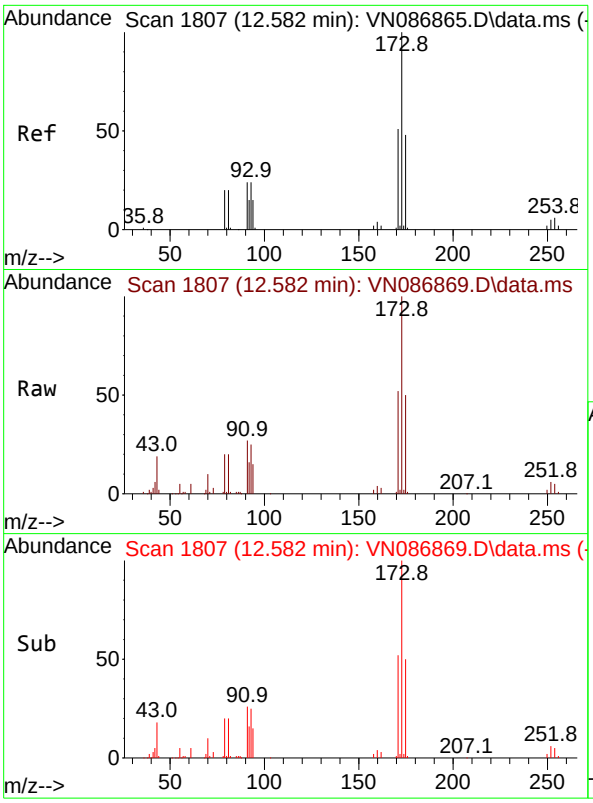


#70
Styrene
Concen: 52.758 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:104 Resp: 438751

Ion	Ratio	Lower	Upper
104	100		
78	48.7	38.5	57.7
103	53.7	43.1	64.7



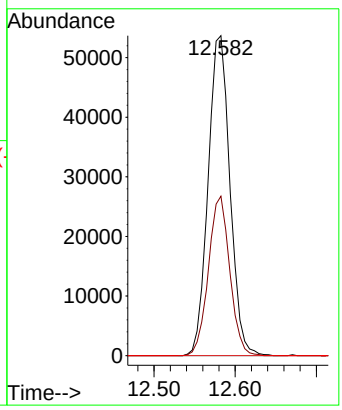


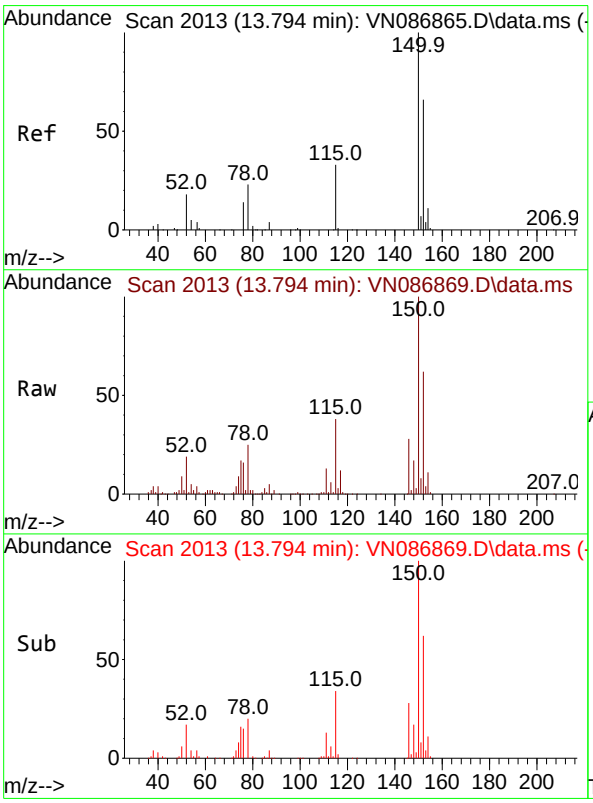
#71
Bromoform
Concen: 54.751 ug/l
RT: 12.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:173 Resp: 100357

Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.1	72.4
254	0.0	0.0	0.0

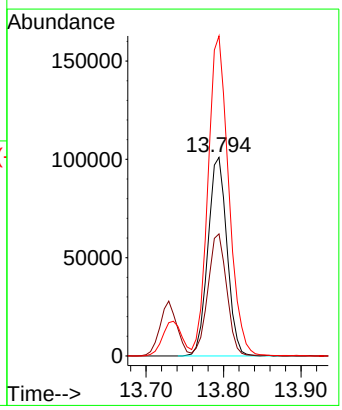


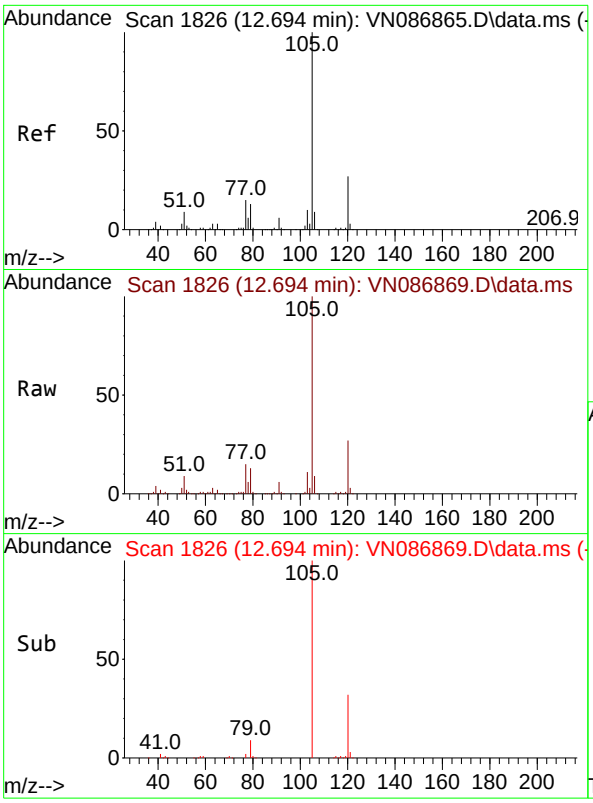


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:152 Resp: 172710

Ion	Ratio	Lower	Upper
152	100		
115	60.6	30.1	90.5
150	174.0	0.0	345.0



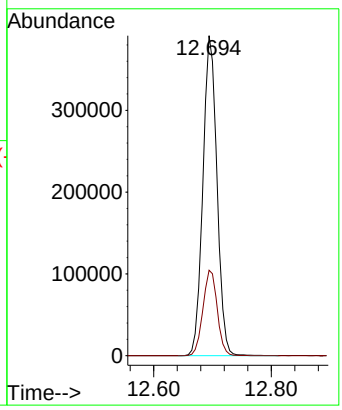


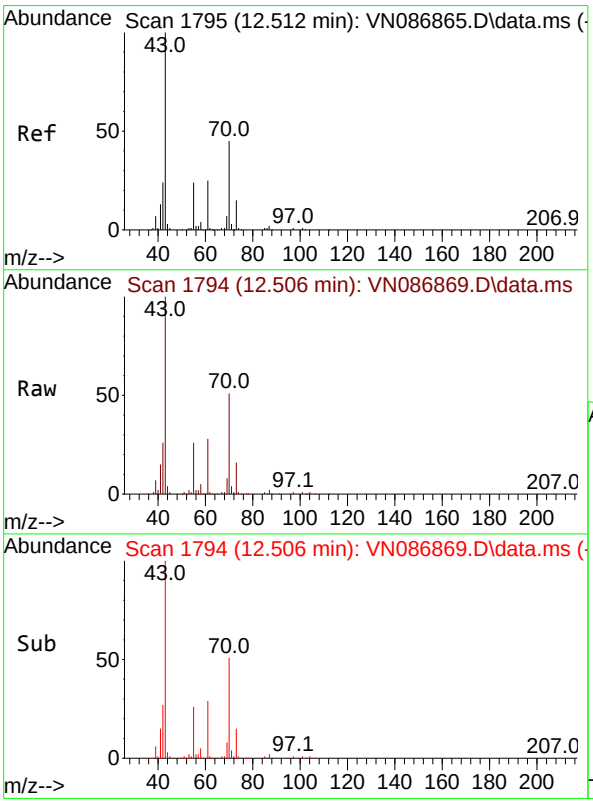
#73
Isopropylbenzene
Concen: 51.823 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:105 Resp: 652045

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.5	40.4

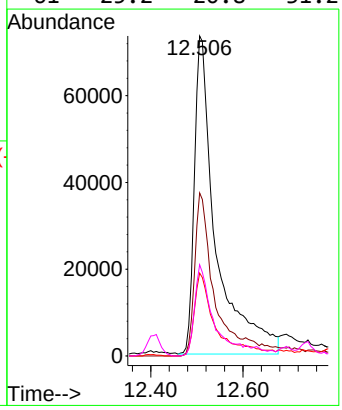


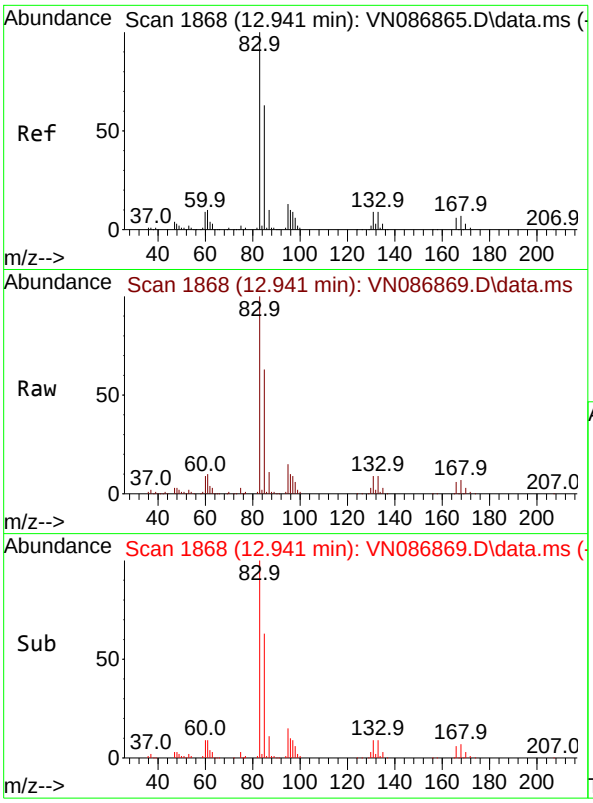


#74
N-amyl acetate
Concen: 54.212 ug/l
RT: 12.506 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 43 Resp: 238355

Ion	Ratio	Lower	Upper
43	100		
70	49.3	37.6	56.4
55	25.3	19.0	28.6
61	25.2	20.8	31.2



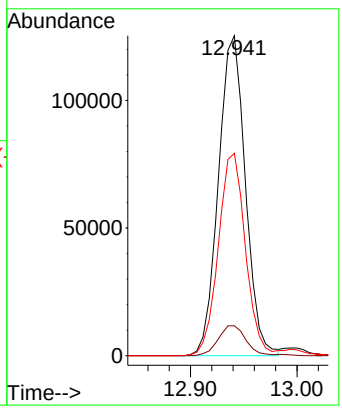


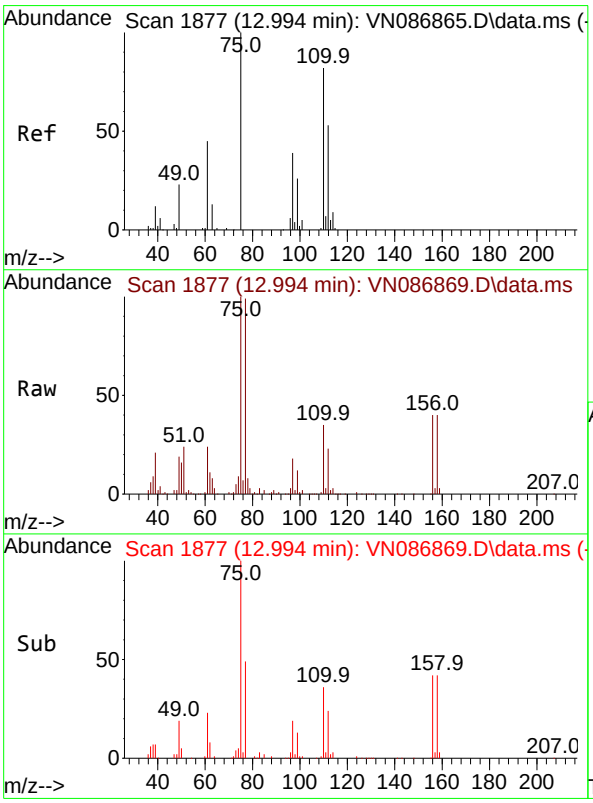
#75
1,1,2,2-Tetrachloroethane
Concen: 51.763 ug/l
RT: 12.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 83 Resp: 220643

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	63.9	32.0	96.0

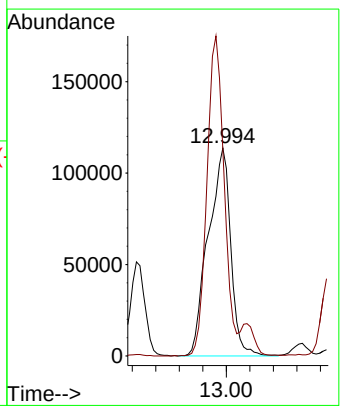


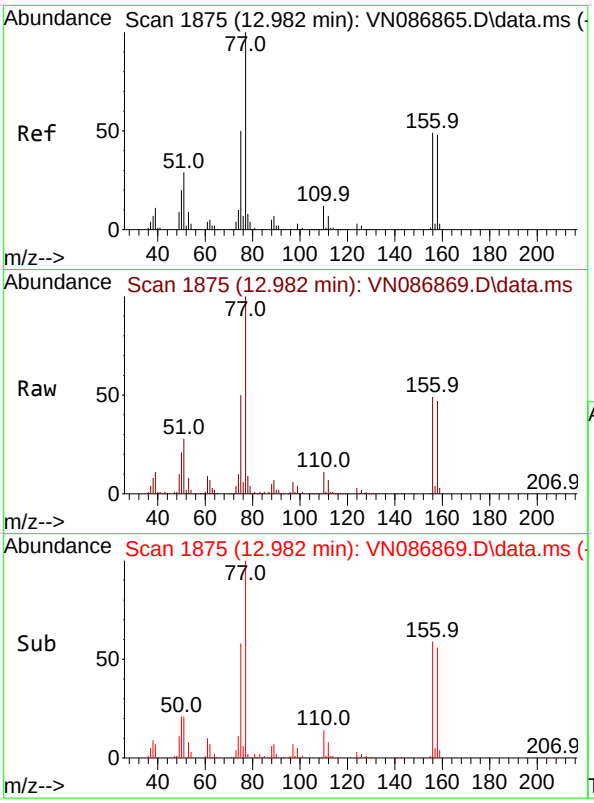


#76
1,2,3-Trichloropropane
Concen: 73.563 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 75 Resp: 302004

Ion	Ratio	Lower	Upper
75	100		
77	117.4	79.3	237.9



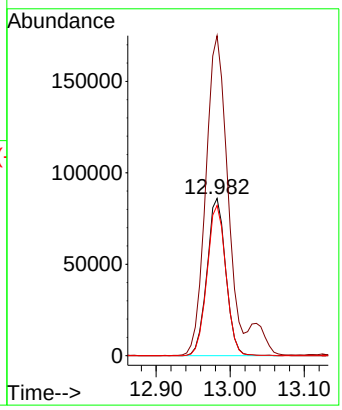


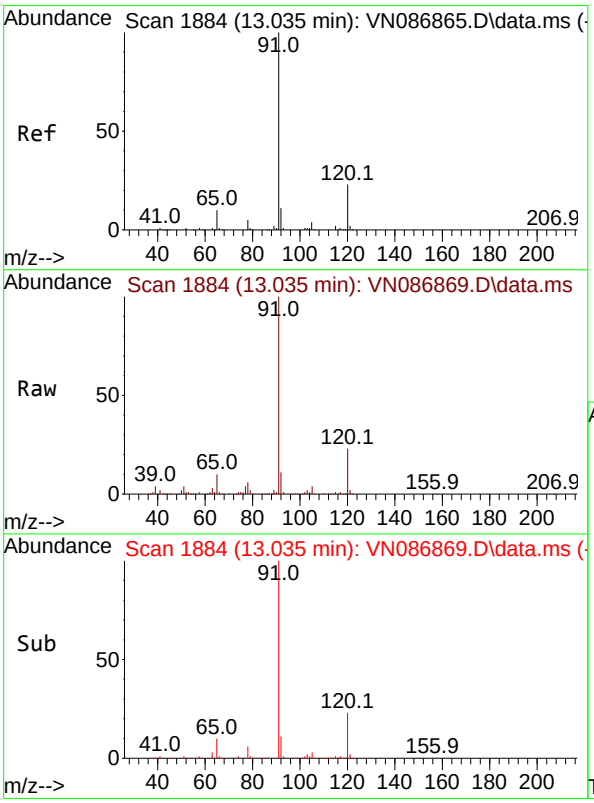
#77
Bromobenzene
Concen: 52.313 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:156 Resp: 150950

Ion	Ratio	Lower	Upper
156	100		
77	234.9	117.7	353.1
158	96.5	48.1	144.4

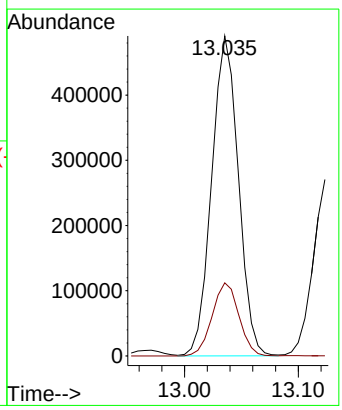


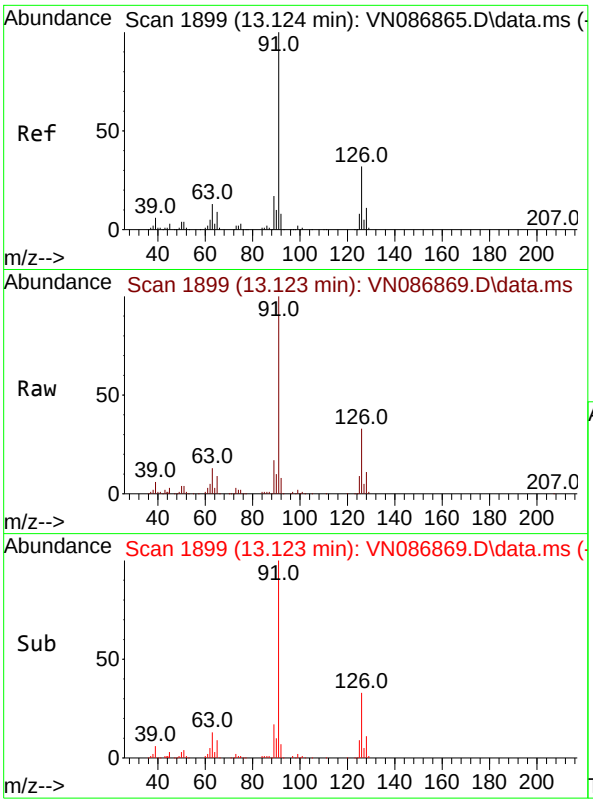


#78
n-propylbenzene
Concen: 52.397 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 91 Resp: 801180

Ion	Ratio	Lower	Upper
91	100		
120	22.9	11.4	34.2



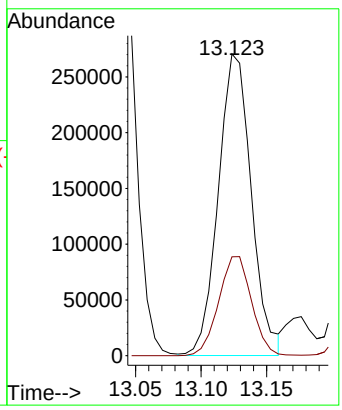


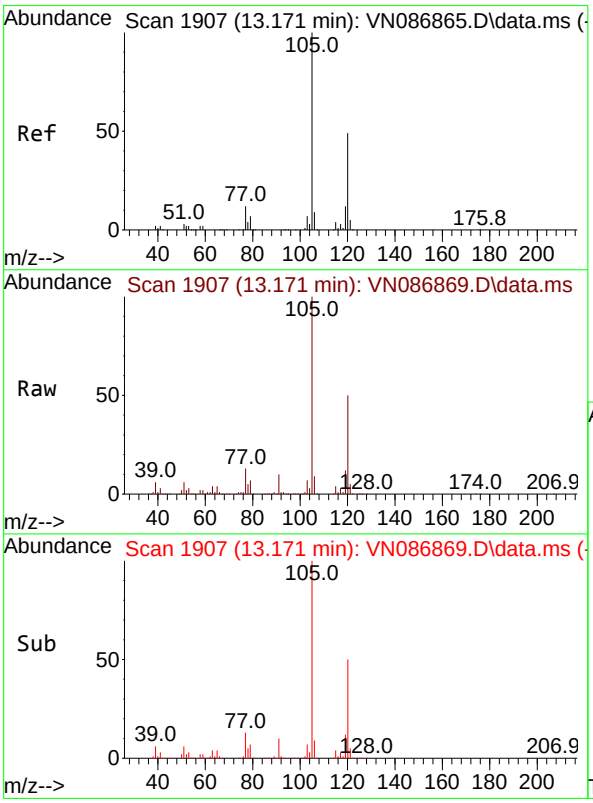
#79
2-Chlorotoluene
Concen: 51.650 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 91 Resp: 473629

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.2	48.5

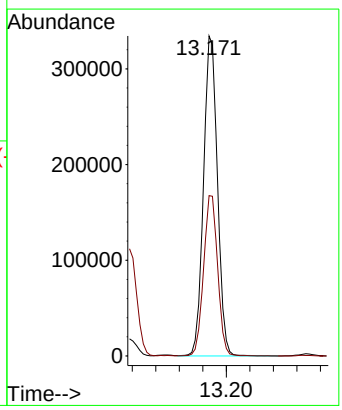


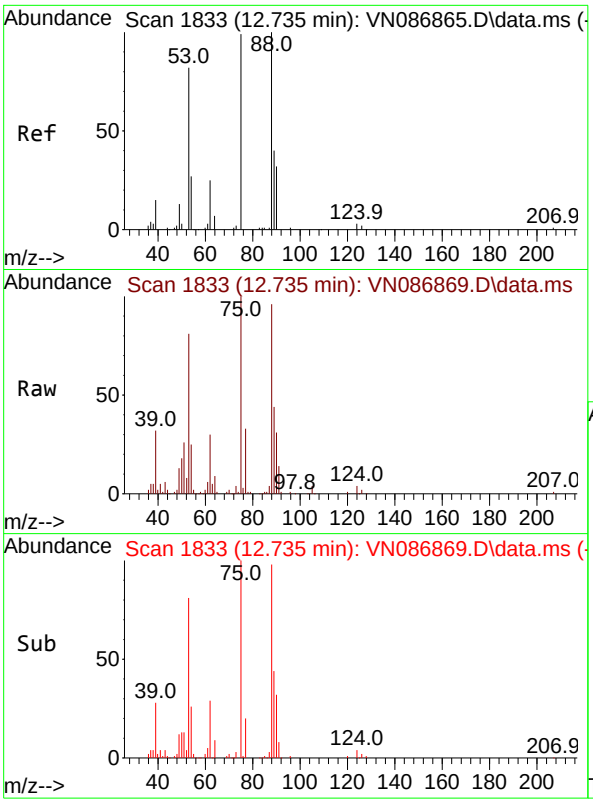


#80
1,3,5-Trimethylbenzene
Concen: 52.787 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:105 Resp: 548347

Ion	Ratio	Lower	Upper
105	100		
120	50.6	24.9	74.6



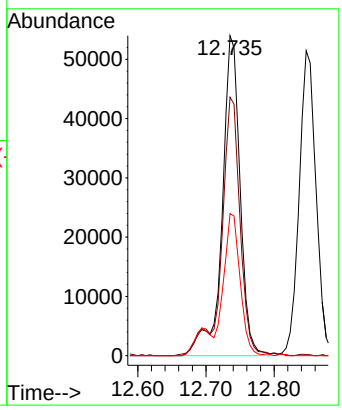


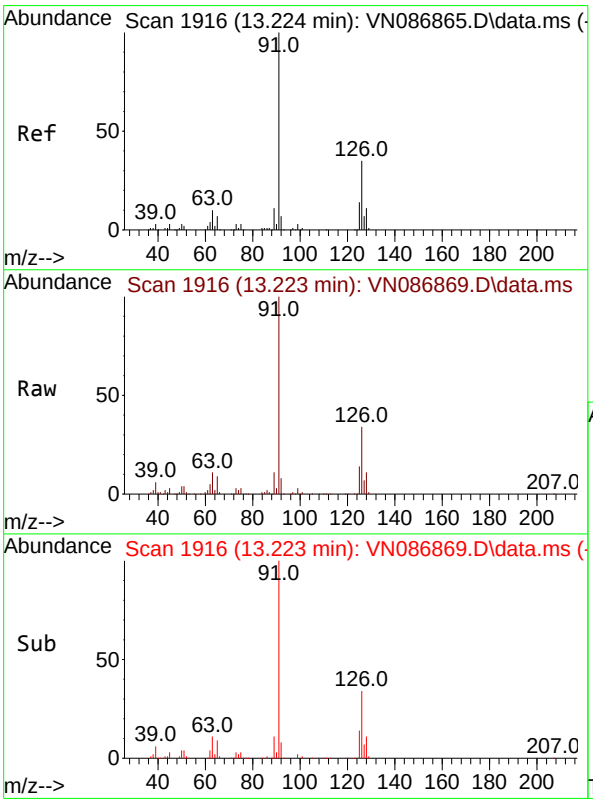
#81
trans-1,4-Dichloro-2-butene
Concen: 55.702 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 75 Resp: 99341

Ion	Ratio	Lower	Upper
75	100		
53	83.7	66.6	99.8
89	40.4	36.7	55.1

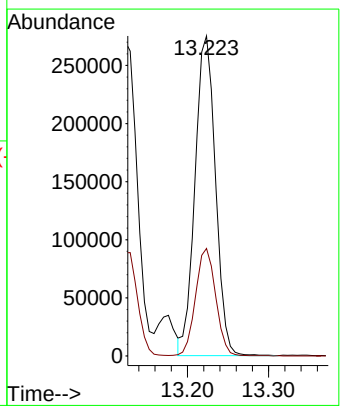


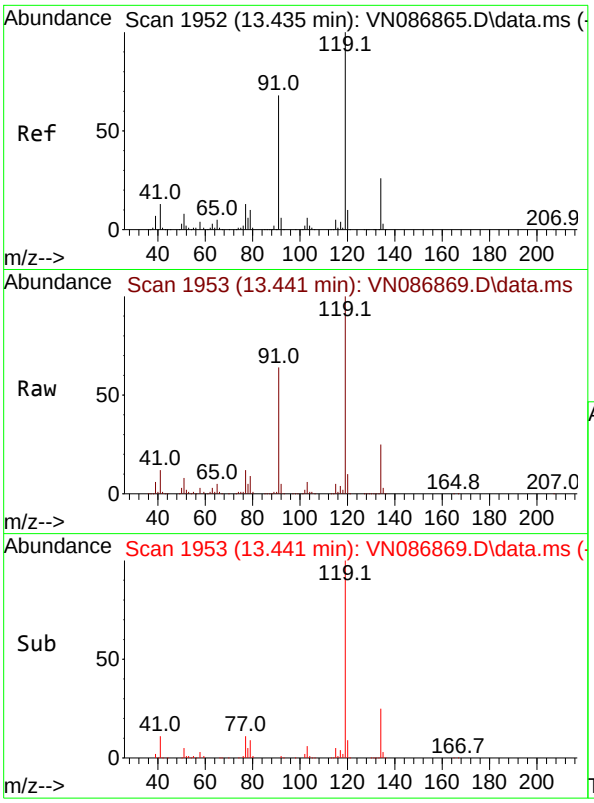


#82
4-Chlorotoluene
Concen: 51.884 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 91 Resp: 481403

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.7	50.1



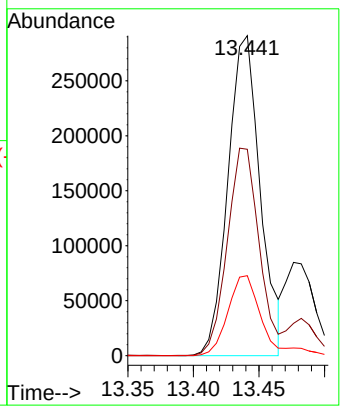


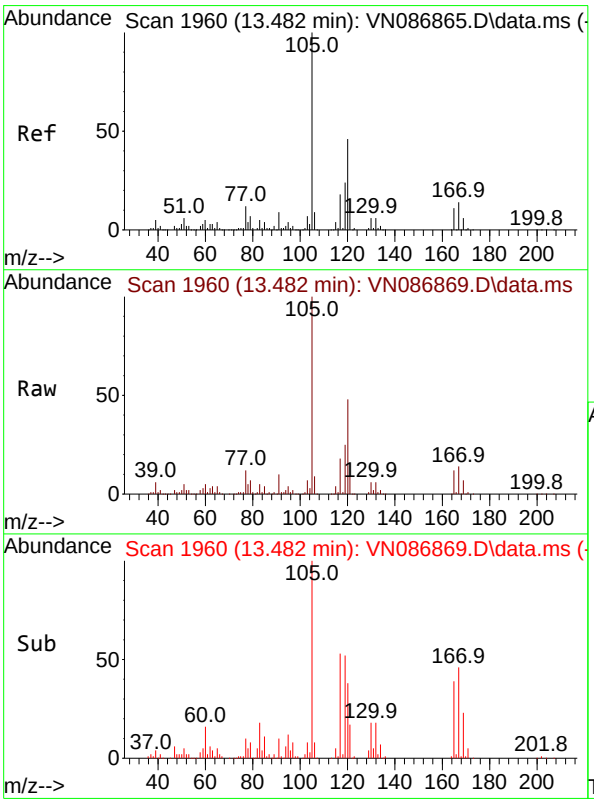
#83
tert-Butylbenzene
Concen: 52.532 ug/l
RT: 13.441 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:119 Resp: 499519

Ion	Ratio	Lower	Upper
119	100		
91	63.9	32.1	96.5
134	26.4	13.4	40.1

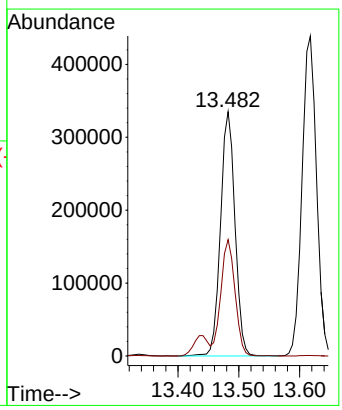


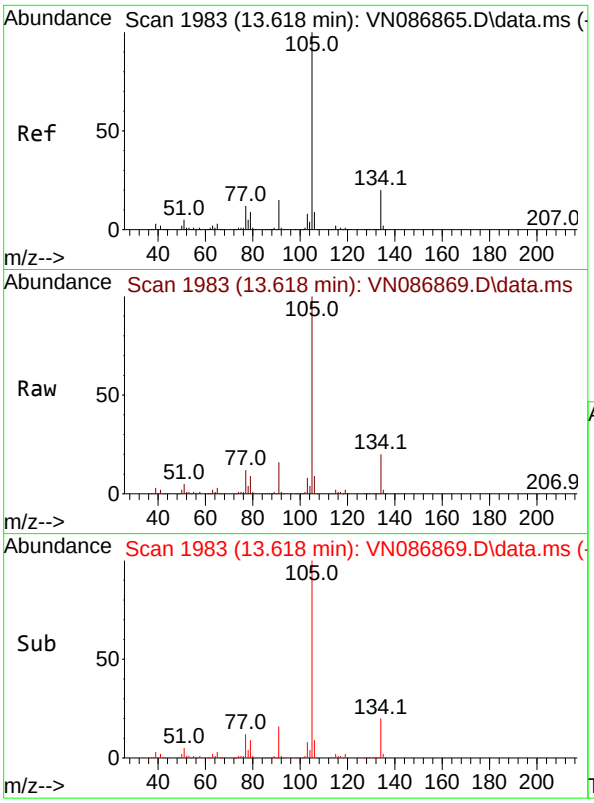


#84
1,2,4-Trimethylbenzene
Concen: 53.024 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:105 Resp: 552333

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.2	69.6



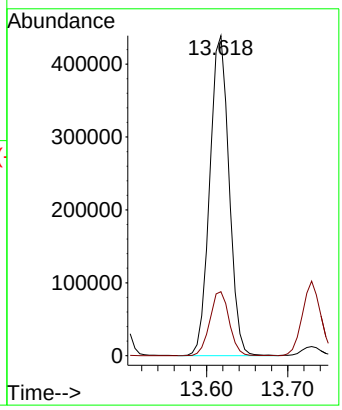


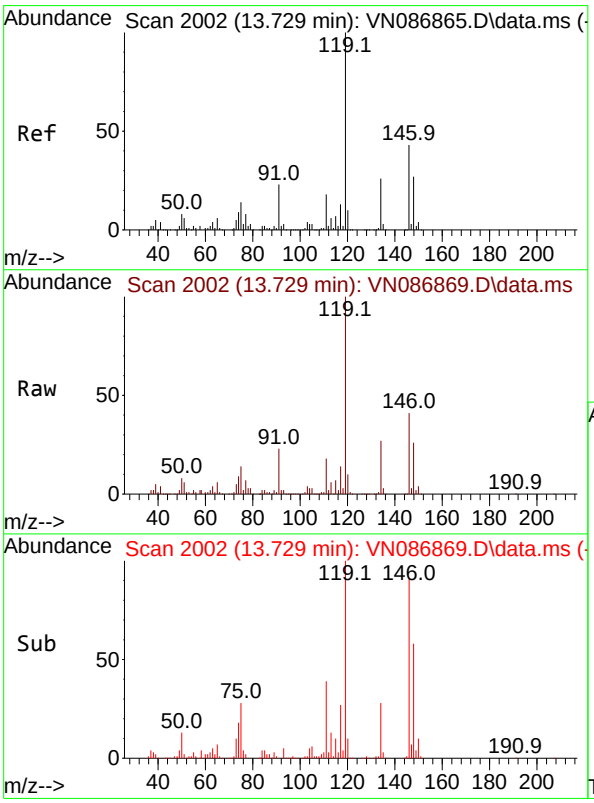
#85
sec-Butylbenzene
Concen: 52.428 ug/l
RT: 13.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:105 Resp: 723986

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0

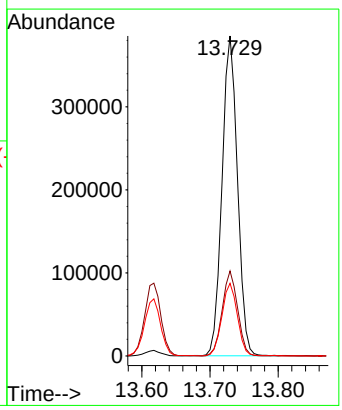


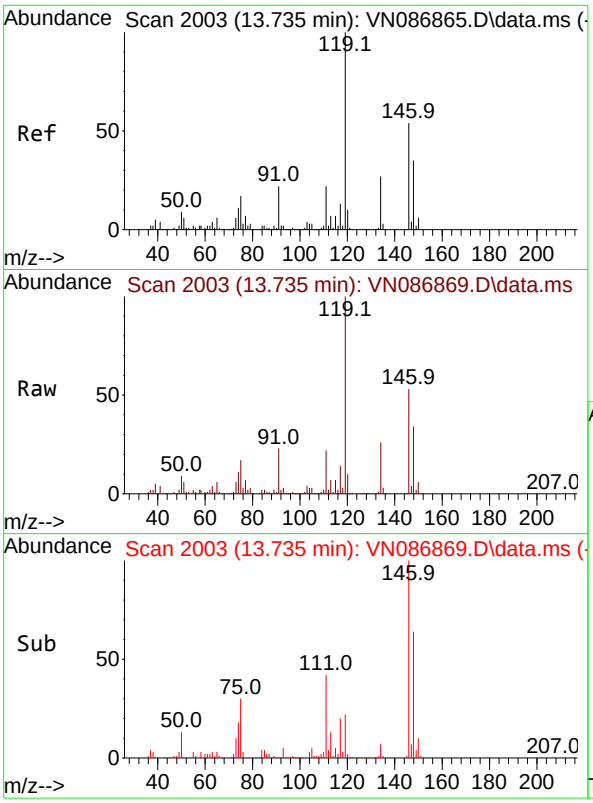


#86
p-Isopropyltoluene
Concen: 53.174 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:119 Resp: 606979

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.5	40.4
91	22.7	11.5	34.4



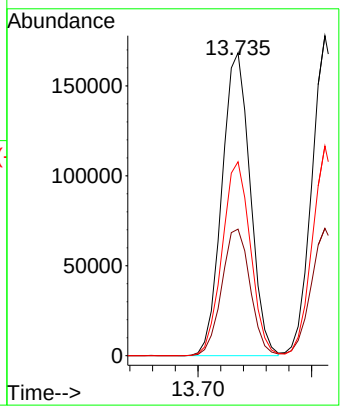


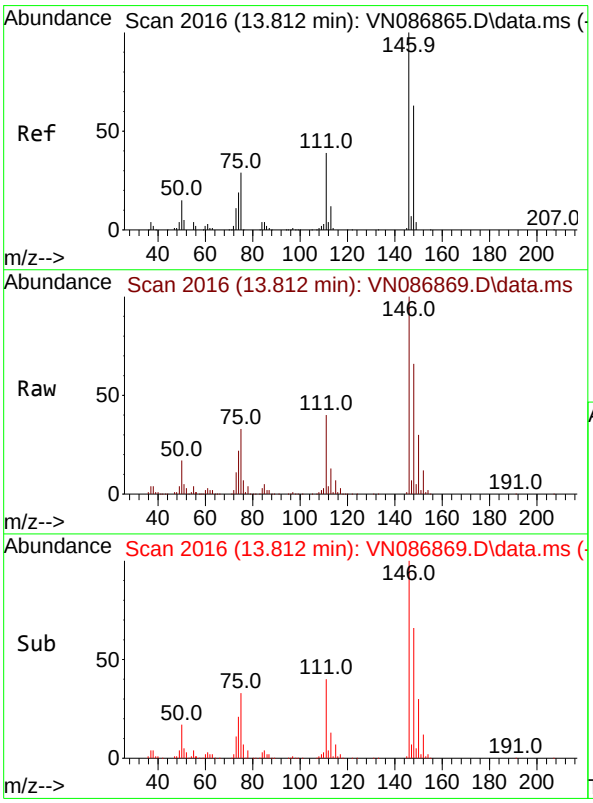
#87
1,3-Dichlorobenzene
Concen: 51.224 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:146 Resp: 290810

Ion	Ratio	Lower	Upper
146	100		
111	42.1	20.9	62.8
148	64.3	32.0	96.2

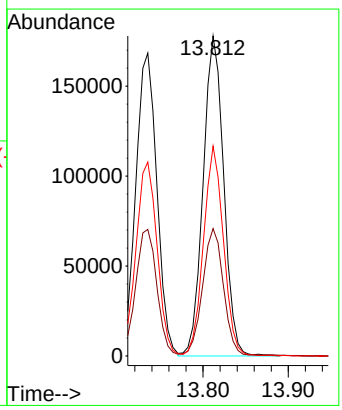


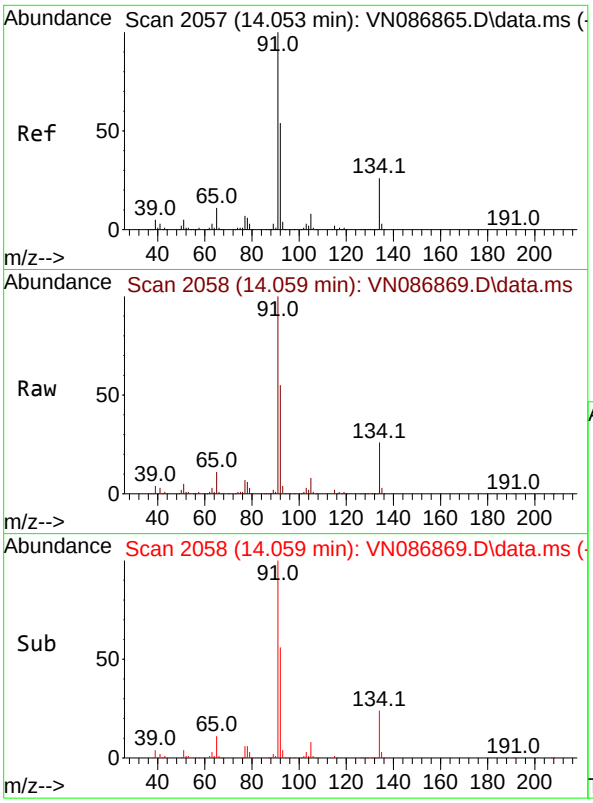


#88
1,4-Dichlorobenzene
Concen: 51.557 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:146 Resp: 298412

Ion	Ratio	Lower	Upper
146	100		
111	40.0	19.9	59.7
148	63.3	31.8	95.4



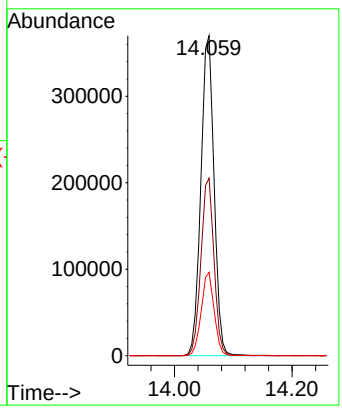


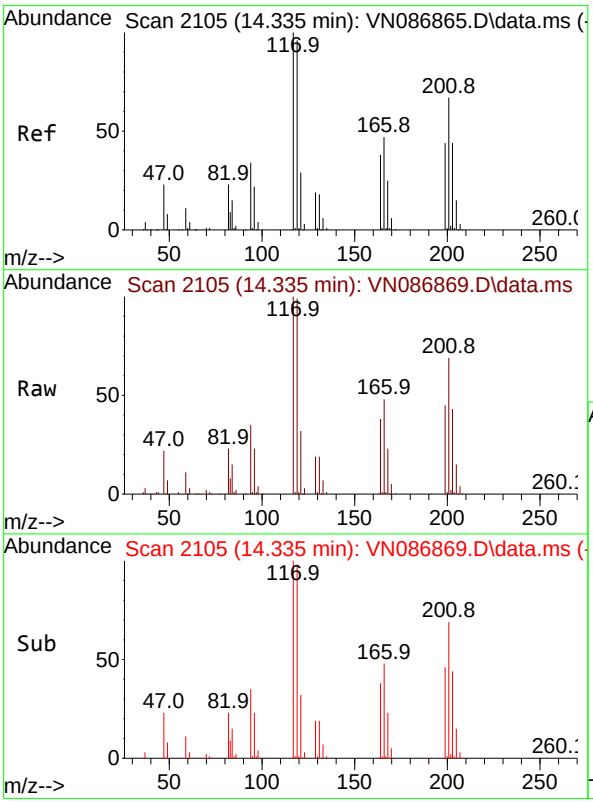
#89
n-Butylbenzene
Concen: 52.424 ug/l
RT: 14.059 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 91 Resp: 579636

Ion	Ratio	Lower	Upper
91	100		
92	55.0	27.5	82.4
134	25.5	13.0	39.0

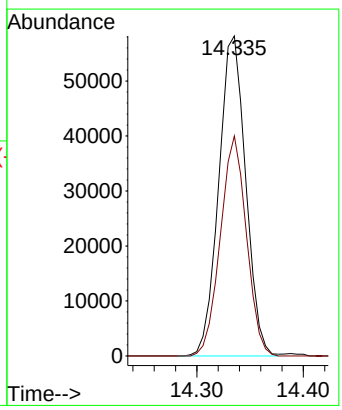


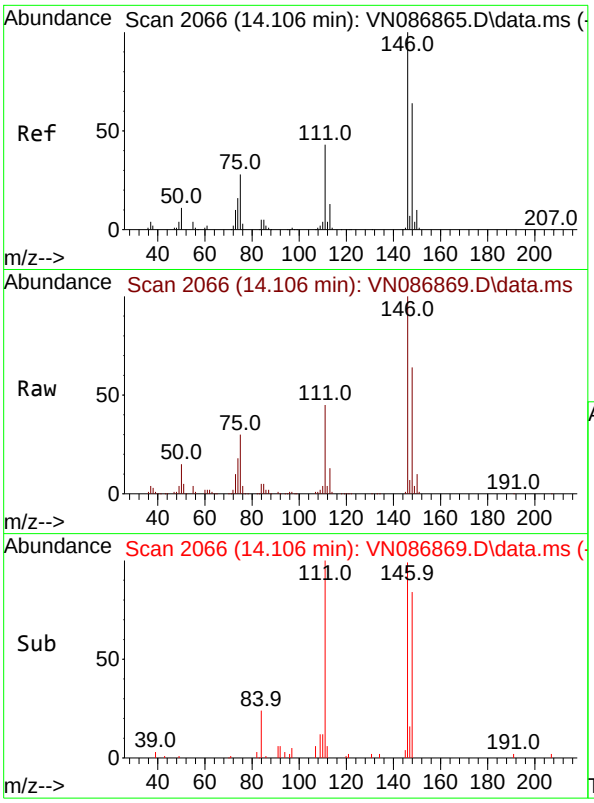


#90
Hexachloroethane
Concen: 52.847 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:117 Resp: 102254

Ion	Ratio	Lower	Upper
117	100		
201	66.4	33.2	99.6



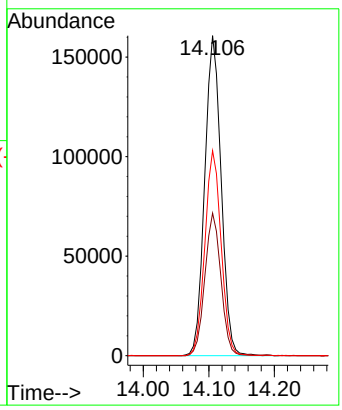


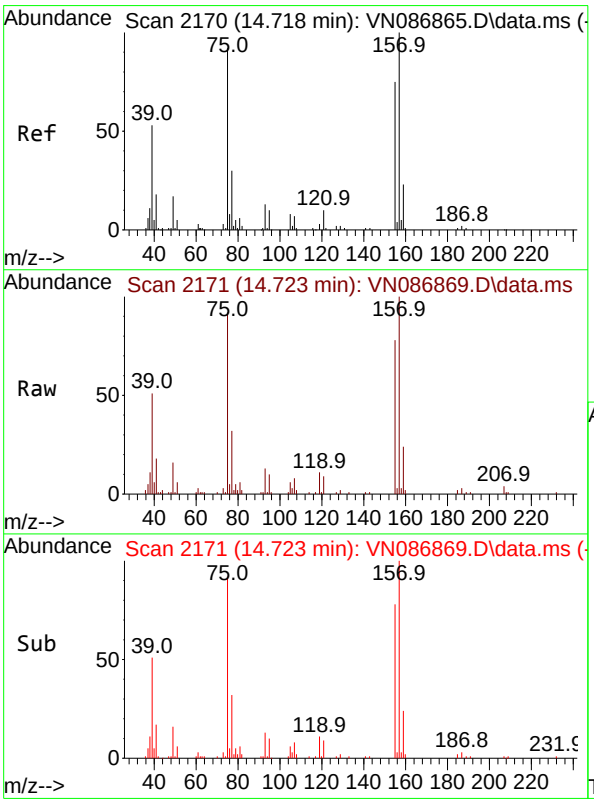
#91
1,2-Dichlorobenzene
Concen: 51.340 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:146 Resp: 280025

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.6	64.6
148	63.4	31.7	95.1

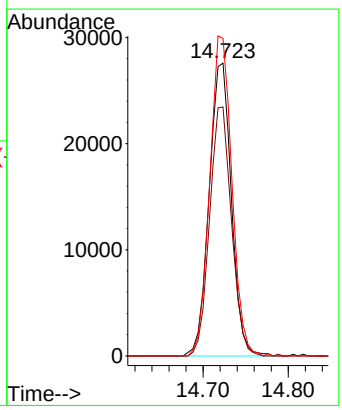


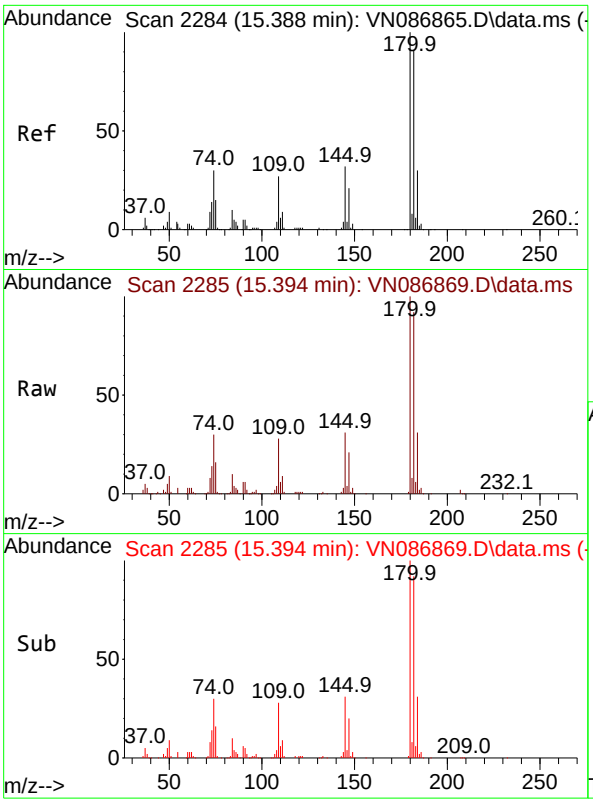


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.161 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 75 Resp: 50115

Ion	Ratio	Lower	Upper
75	100		
155	83.5	41.1	123.4
157	108.6	52.7	158.1



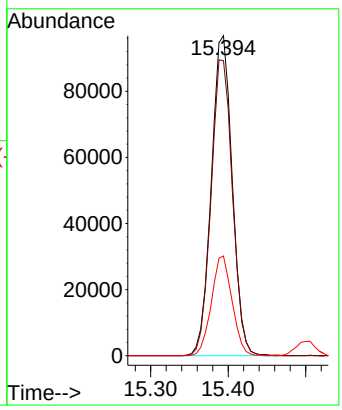


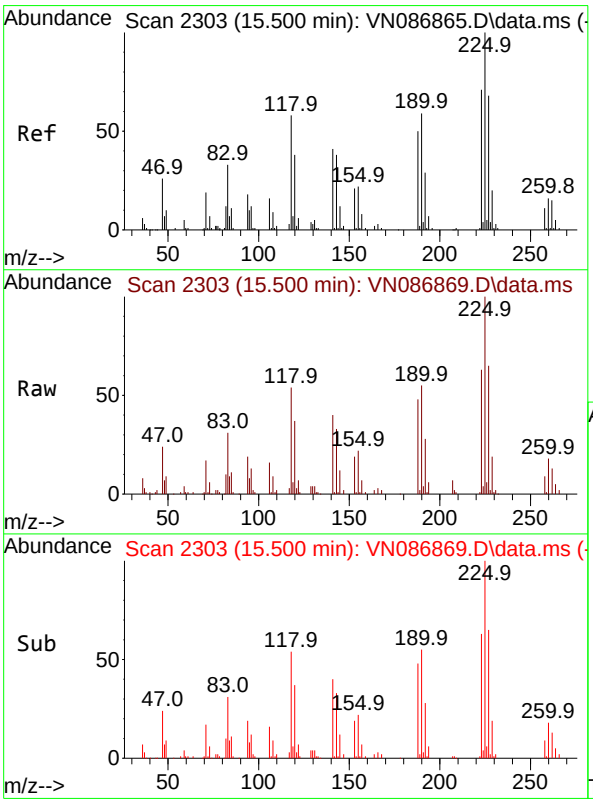
#93
1,2,4-Trichlorobenzene
Concen: 51.986 ug/l
RT: 15.394 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:180 Resp: 181064

Ion	Ratio	Lower	Upper
180	100		
182	94.6	46.9	140.7
145	30.8	16.0	47.9

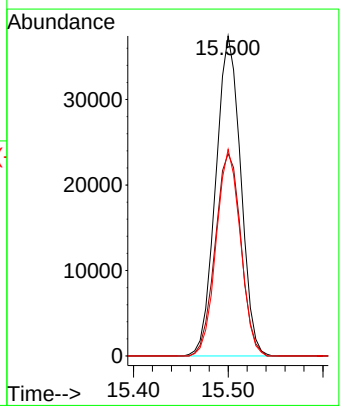


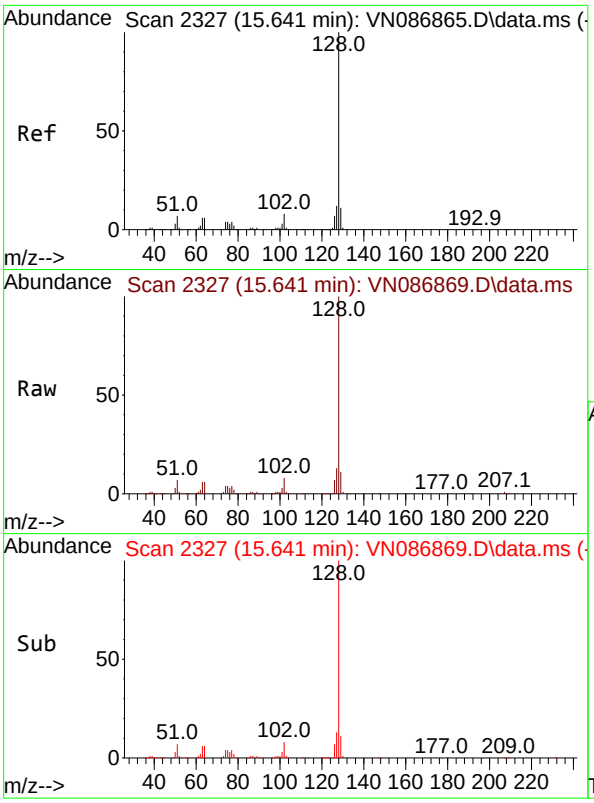


#94
Hexachlorobutadiene
Concen: 52.843 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:225 Resp: 68570

Ion	Ratio	Lower	Upper
225	100		
223	65.3	33.5	100.4
227	62.5	31.1	93.5



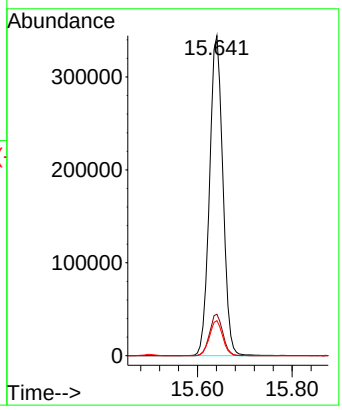


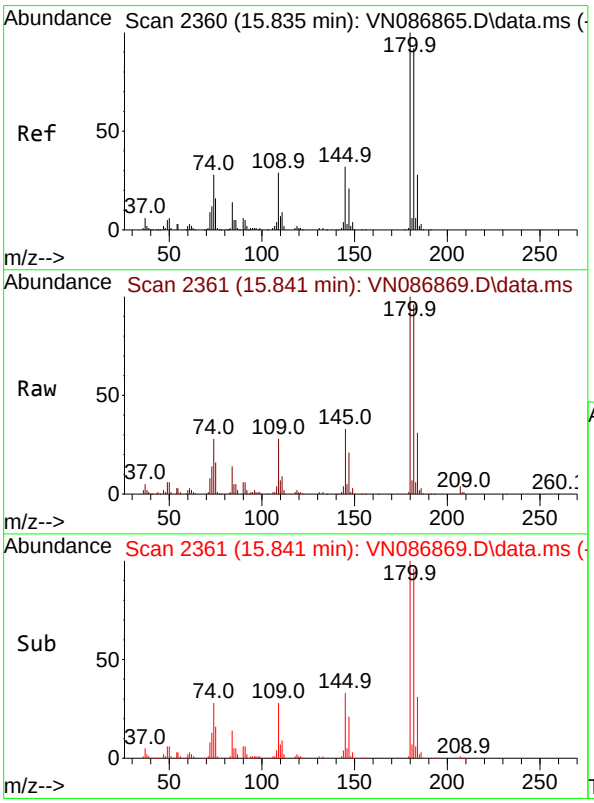
#95
Naphthalene
Concen: 52.005 ug/l
RT: 15.641 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:128 Resp: 674187

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.9	8.8	13.2

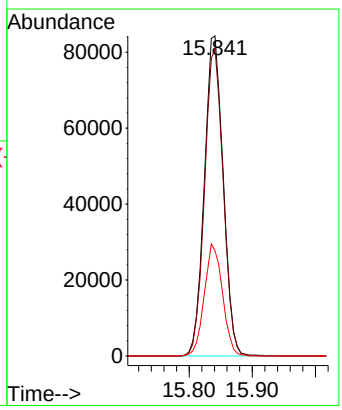




#96
1,2,3-Trichlorobenzene
Concen: 50.539 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:180 Resp: 174888

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.0	141.0
145	33.8	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	178887	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	312096	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	278021	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	137590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	111173	46.417	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.840%			
35) Dibromofluoromethane	8.177	113	95983	51.895	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.800%			
50) Toluene-d8	10.565	98	358050	48.901	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.800%			
62) 4-Bromofluorobenzene	12.847	95	133394	49.036	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.080%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	105437	59.114	ug/l	100
3) Chloromethane	2.395	50	108375	47.054	ug/l	99
4) Vinyl Chloride	2.553	62	140696	59.218	ug/l	99
5) Bromomethane	2.995	94	63664	47.883	ug/l	98
6) Chloroethane	3.159	64	88430	57.621	ug/l	92
7) Trichlorofluoromethane	3.530	101	180597	58.179	ug/l	98
8) Diethyl Ether	3.983	74	75753	56.010	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.400	101	112692	57.783	ug/l	98
10) Methyl Iodide	4.612	142	70472	27.875	ug/l	98
11) Tert butyl alcohol	5.536	59	145967	224.604	ug/l	100
12) 1,1-Dichloroethene	4.365	96	114343	57.428	ug/l	95
13) Acrolein	4.206	56	35237	171.293	ug/l	99
14) Allyl chloride	5.047	41	166948	50.559	ug/l	96
15) Acrylonitrile	5.736	53	385697	253.912	ug/l	99
16) Acetone	4.442	43	337624	265.816	ug/l	97
17) Carbon Disulfide	4.742	76	338278	61.422	ug/l	100
18) Methyl Acetate	5.047	43	159602	43.119	ug/l	98
19) Methyl tert-butyl Ether	5.812	73	383089	53.139	ug/l	100
20) Methylene Chloride	5.294	84	128619	54.089	ug/l	95
21) trans-1,2-Dichloroethene	5.806	96	122249	55.186	ug/l	94
22) Diisopropyl ether	6.688	45	357872	51.415	ug/l	97
23) Vinyl Acetate	6.618	43	1581728	268.963	ug/l	97
24) 1,1-Dichloroethane	6.588	63	219016	54.677	ug/l	99
25) 2-Butanone	7.494	43	476455	230.777	ug/l	97
26) 2,2-Dichloropropane	7.500	77	189738	60.894	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	147033	55.499	ug/l	99
28) Bromochloromethane	7.824	49	79836	40.537	ug/l	93
29) Tetrahydrofuran	7.847	42	318733	236.990	ug/l	96
30) Chloroform	7.977	83	216737	54.181	ug/l	98
31) Cyclohexane	8.265	56	196017	50.460	ug/l	96
32) 1,1,1-Trichloroethane	8.177	97	182413	53.614	ug/l	97
36) 1,1-Dichloropropene	8.382	75	161052	58.436	ug/l	100
37) Ethyl Acetate	7.571	43	184563	52.606	ug/l	99
38) Carbon Tetrachloride	8.371	117	155867	57.605	ug/l	98
39) Methylcyclohexane	9.606	83	193140	51.151	ug/l	95
40) Benzene	8.612	78	510124	56.603	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.783	41	97416	49.441 ug/l	94
42) 1,2-Dichloroethane	8.677	62	152007	55.609 ug/l	99
43) Isopropyl Acetate	8.694	43	283428	50.333 ug/l	97
44) Trichloroethene	9.359	130	122896	57.509 ug/l	98
45) 1,2-Dichloropropane	9.624	63	122677	55.952 ug/l	97
46) Dibromomethane	9.712	93	85210	58.510 ug/l	99
47) Bromodichloromethane	9.888	83	169444	56.550 ug/l	98
48) Methyl methacrylate	9.682	41	130292	50.271 ug/l	95
49) 1,4-Dioxane	9.700	88	49294	1045.473 ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	873718	257.739 ug/l	97
52) Toluene	10.629	92	315522	57.288 ug/l	99
53) t-1,3-Dichloropropene	10.835	75	190622	56.893 ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	205171	57.231 ug/l	100
55) 1,1,2-Trichloroethane	11.018	97	118127	55.740 ug/l	99
56) Ethyl methacrylate	10.876	69	195696	57.976 ug/l	94
57) 1,3-Dichloropropane	11.165	76	205677	55.947 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	490344	243.555 ug/l	99
59) 2-Hexanone	11.200	43	579829	265.542 ug/l	94
60) Dibromochloromethane	11.359	129	127864	57.909 ug/l	98
61) 1,2-Dibromoethane	11.471	107	122619	56.449 ug/l	99
64) Tetrachloroethene	11.106	164	97132	55.204 ug/l	96
65) Chlorobenzene	11.888	112	337054	54.968 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	110500	56.061 ug/l	99
67) Ethyl Benzene	11.965	91	573298	54.279 ug/l	98
68) m/p-Xylenes	12.070	106	459223	113.581 ug/l	97
69) o-Xylene	12.394	106	218362	56.391 ug/l	96
70) Styrene	12.412	104	374480	56.515 ug/l	99
71) Bromoform	12.576	173	85445	58.506 ug/l #	99
73) Isopropylbenzene	12.694	105	537032	53.577 ug/l	99
74) N-amyl acetate	12.512	43	160037	45.690 ug/l #	90
75) 1,1,2,2-Tetrachloroethane	12.935	83	184655	54.378 ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	245837	75.167 ug/l	71
77) Bromobenzene	12.982	156	131485	57.199 ug/l	96
78) n-propylbenzene	13.035	91	641851	52.692 ug/l	99
79) 2-Chlorotoluene	13.123	91	385196	52.729 ug/l	98
80) 1,3,5-Trimethylbenzene	13.170	105	443295	53.566 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	76922	54.141 ug/l	88
82) 4-Chlorotoluene	13.217	91	398180	53.869 ug/l	99
83) tert-Butylbenzene	13.435	119	378527	49.969 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	446609	53.818 ug/l	99
85) sec-Butylbenzene	13.612	105	539504	49.041 ug/l	99
86) p-Isopropyltoluene	13.729	119	458085	50.373 ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	248250	54.889 ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	254911	55.283 ug/l	99
89) n-Butylbenzene	14.053	91	406564	46.157 ug/l	99
90) Hexachloroethane	14.329	117	80443	52.187 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	237605	54.682 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	40448	49.806 ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	134529	48.485 ug/l	99
94) Hexachlorobutadiene	15.494	225	38343	37.091 ug/l	99
95) Naphthalene	15.635	128	529854	51.304 ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	128848	46.739 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

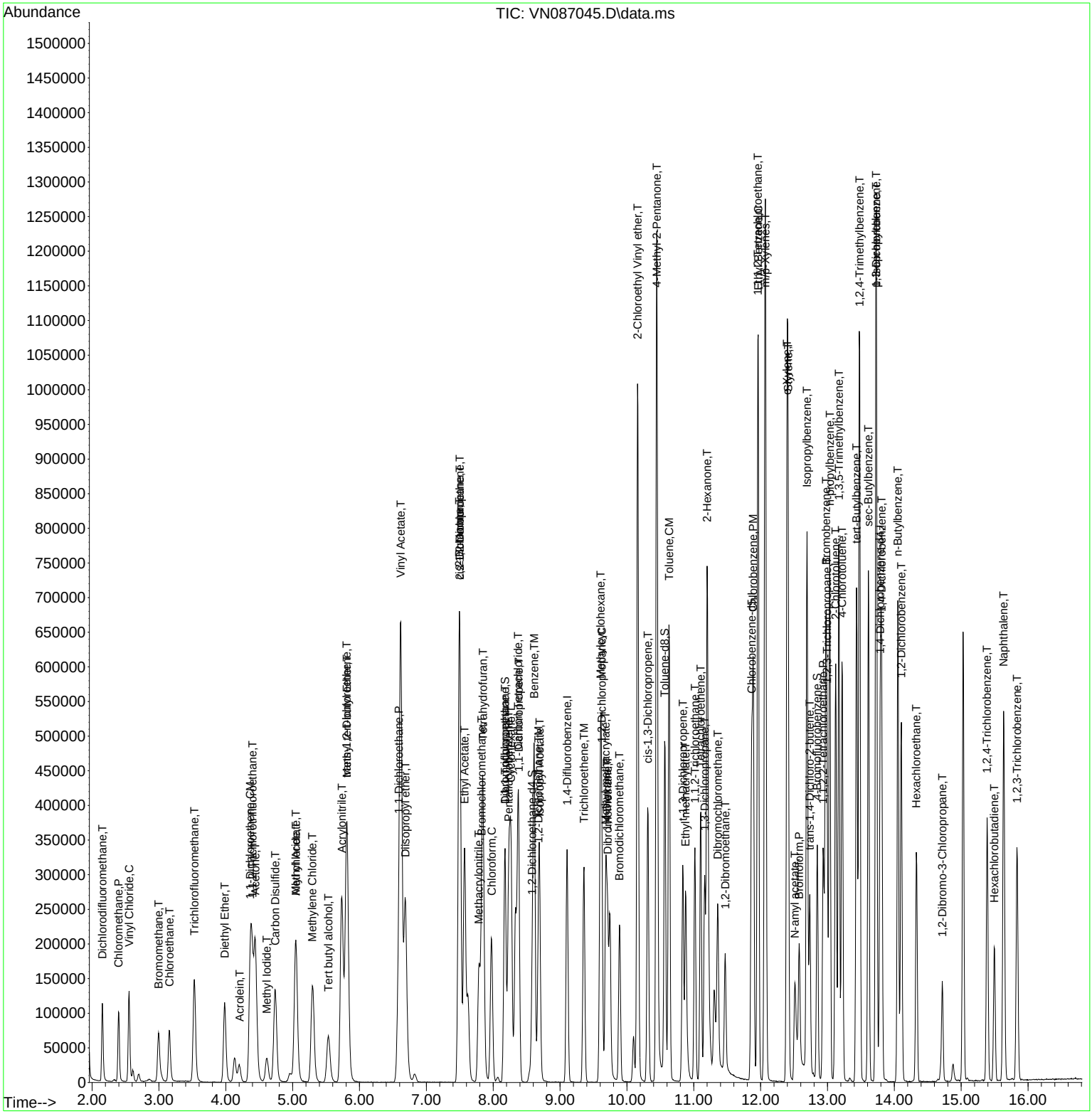
(#) = qualifier out of range (m) = manual integration (+) = signals summed

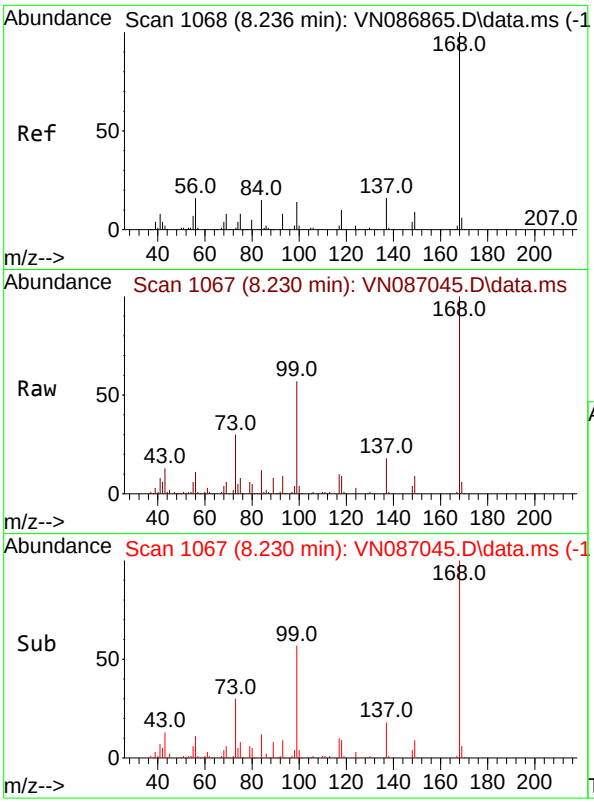
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087045.D
Acq On : 17 Jun 2025 09:25
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jun 18 01:41:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



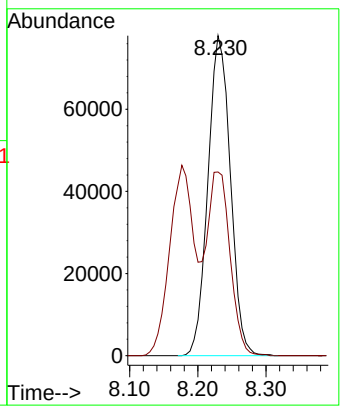


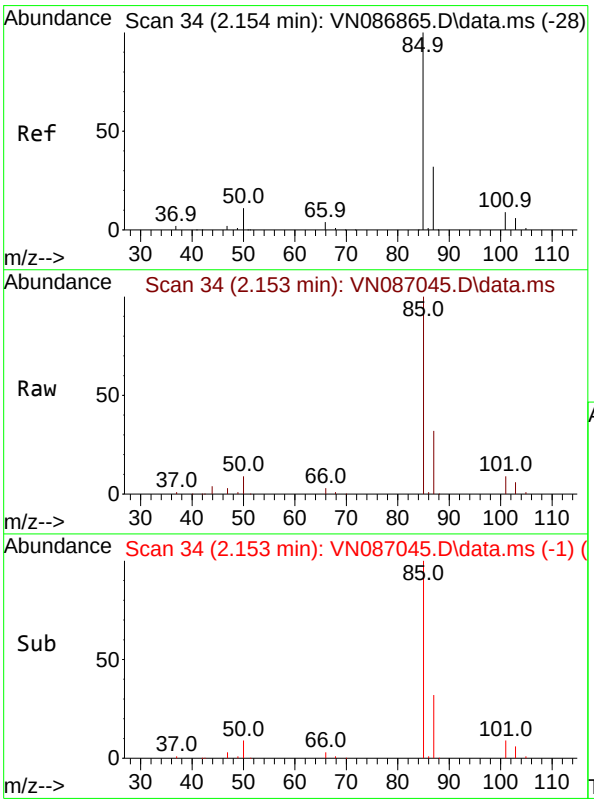
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 178887

Ion	Ratio	Lower	Upper
168	100		
99	57.4	49.1	73.7

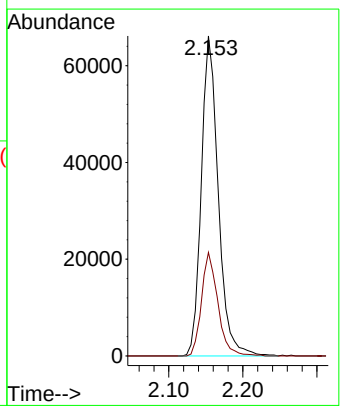


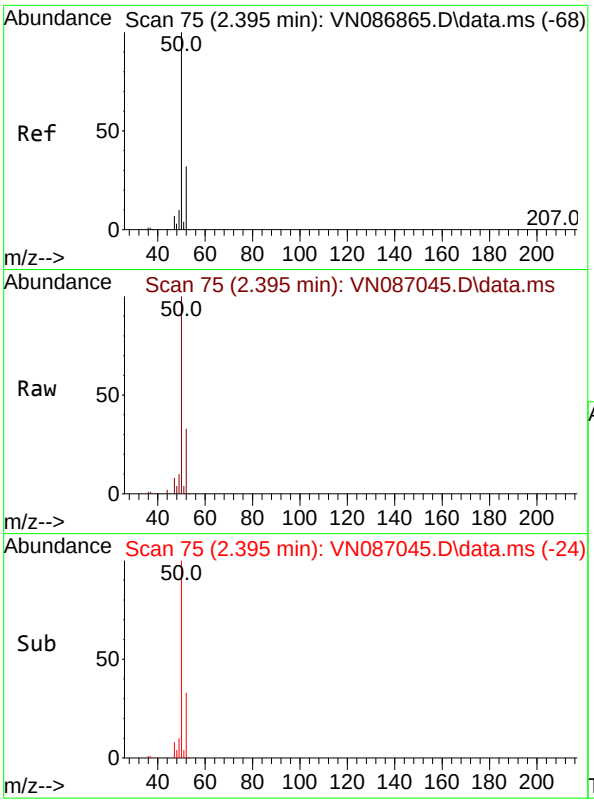


#2
Dichlorodifluoromethane
Concen: 59.114 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 85 Resp: 105437

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.2	48.6



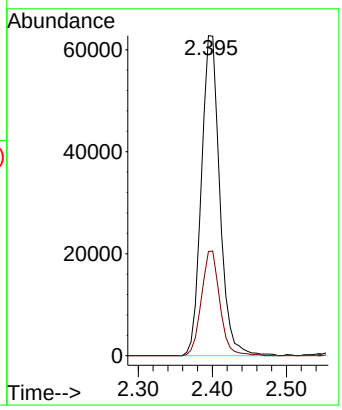


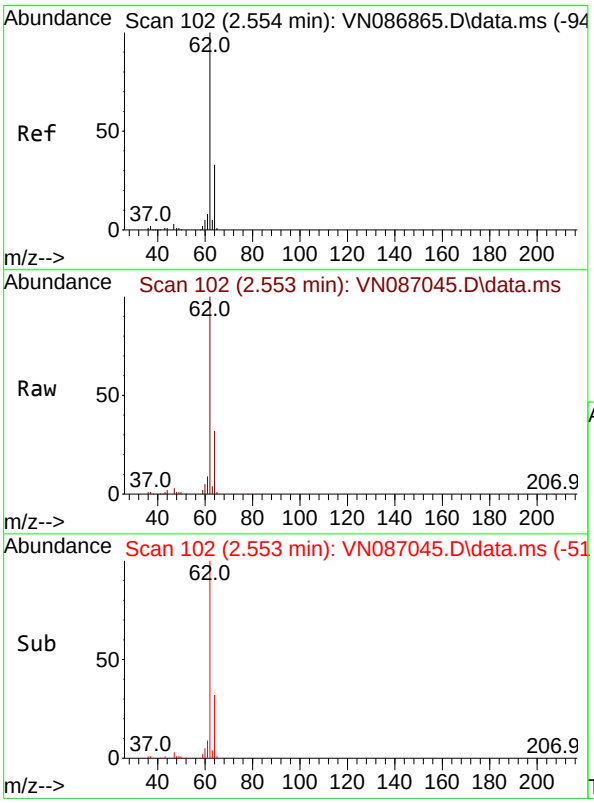
#3
Chloromethane
Concen: 47.054 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 108375

Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.7	38.5

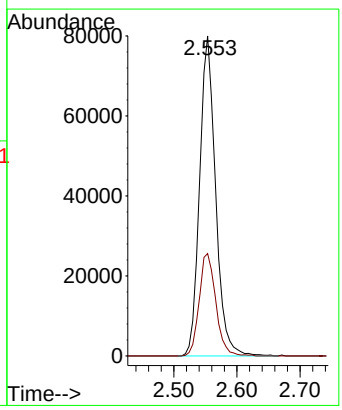


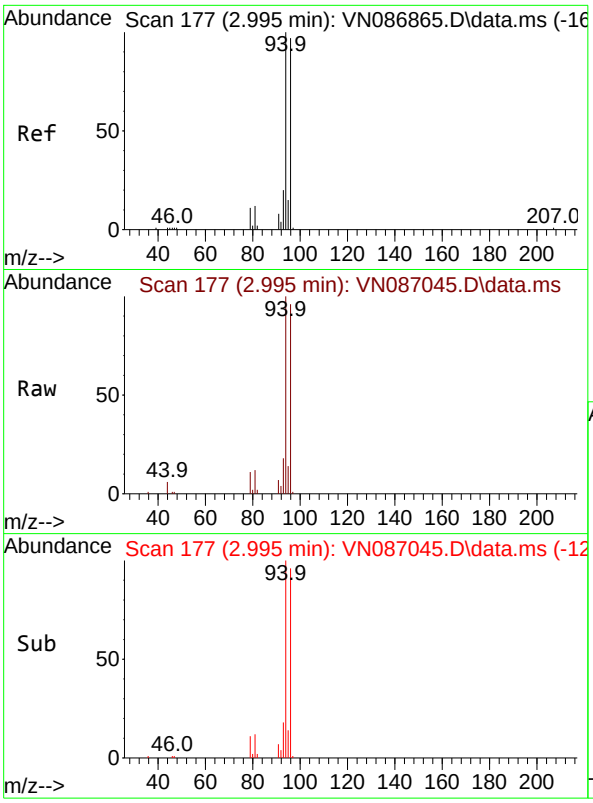


#4
Vinyl Chloride
Concen: 59.218 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 62 Resp: 140696

Ion	Ratio	Lower	Upper
62	100		
64	32.0	26.0	39.0



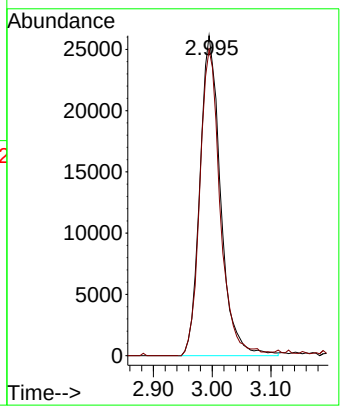


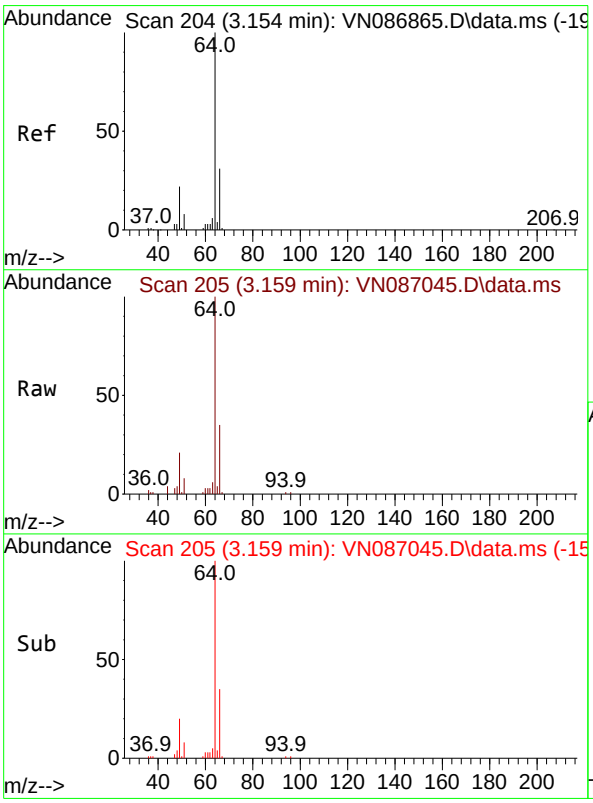
#5
Bromomethane
Concen: 47.883 ug/l
RT: 2.995 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 63664

Ion	Ratio	Lower	Upper
94	100		
96	95.7	77.9	116.9

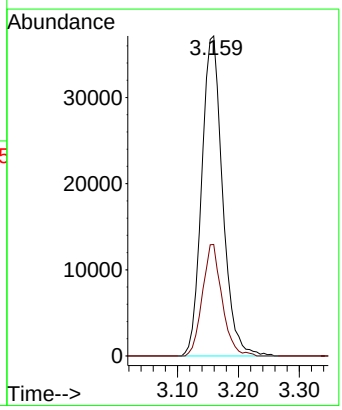


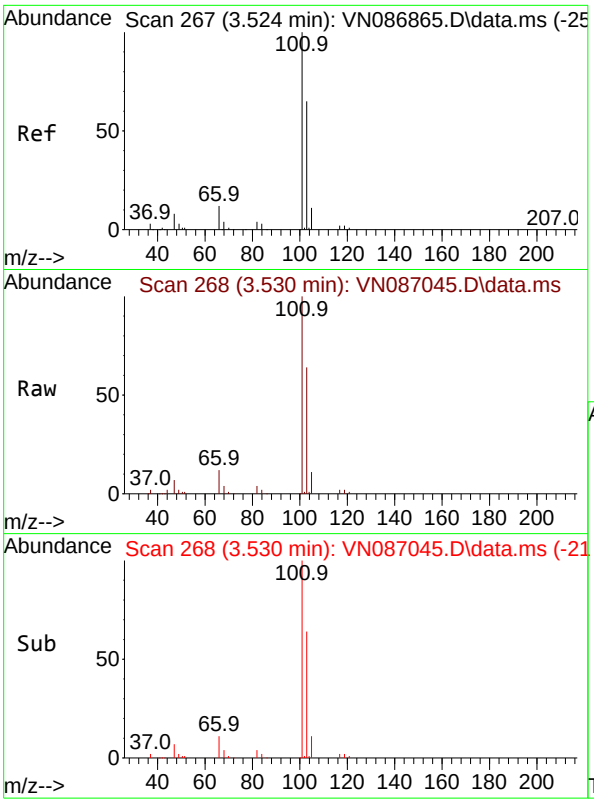


#6
Chloroethane
Concen: 57.621 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 64 Resp: 88430

Ion	Ratio	Lower	Upper
64	100		
66	34.8	24.6	36.8



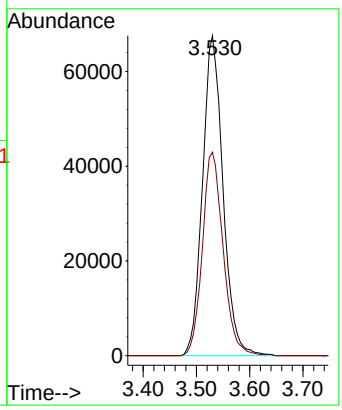


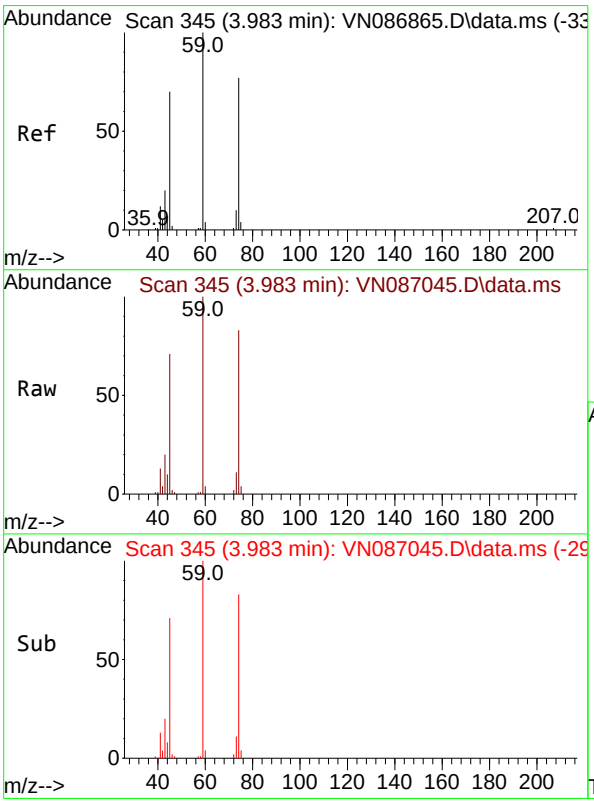
#7
Trichlorofluoromethane
Concen: 58.179 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 180597

Ion	Ratio	Lower	Upper
101	100		
103	63.6	52.2	78.2

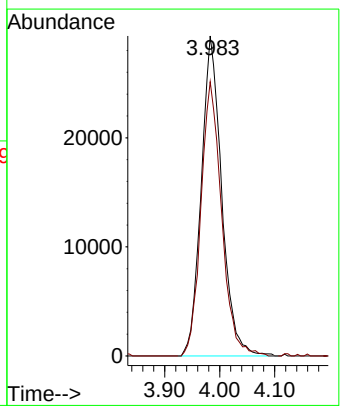


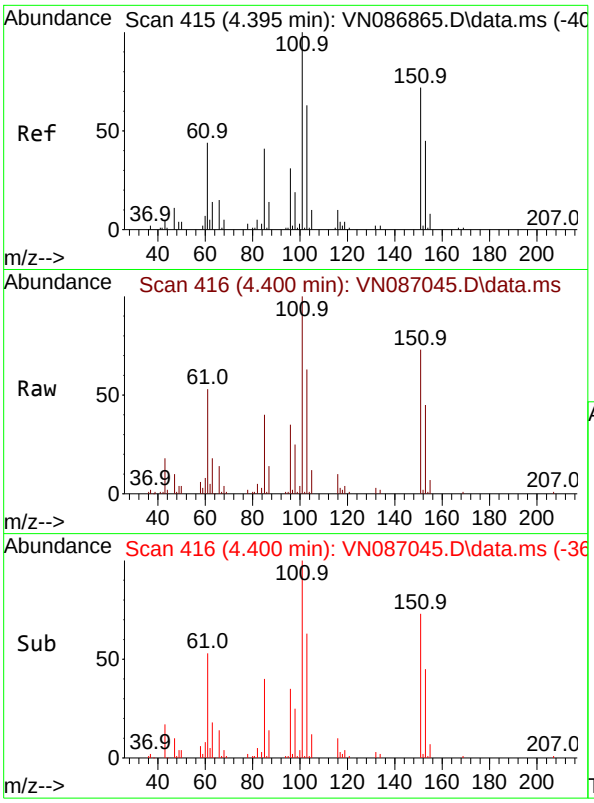


#8
Diethyl Ether
Concen: 56.010 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 74 Resp: 75753

Ion	Ratio	Lower	Upper
74	100		
45	86.7	45.5	136.5



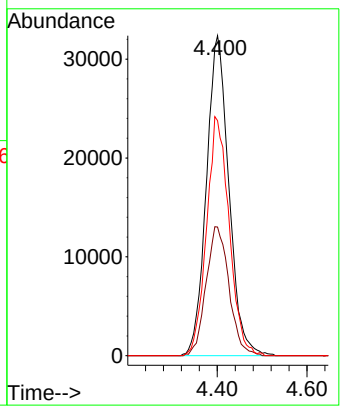


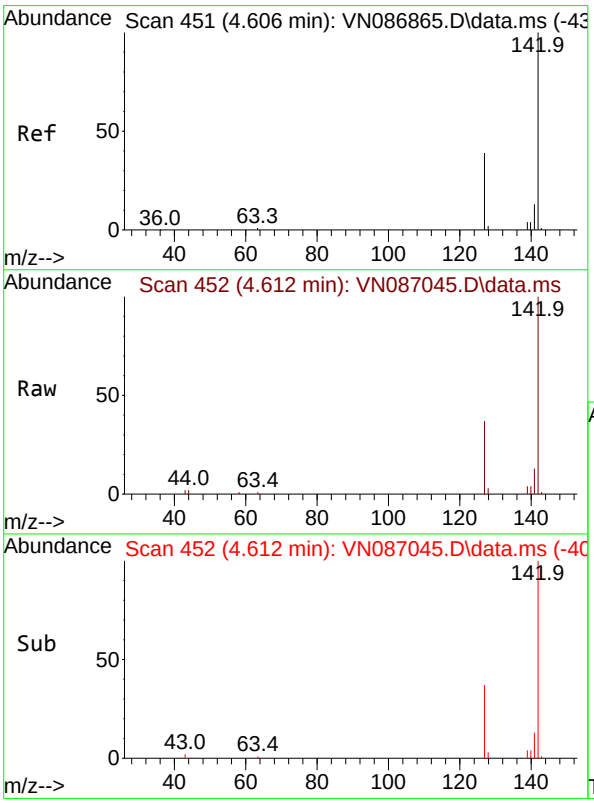
#9
1,1,2-Trichlorotrifluoroethane
Concen: 57.783 ug/l
RT: 4.400 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 112692

Ion	Ratio	Lower	Upper
101	100		
85	41.2	33.8	50.8
151	75.0	58.7	88.1

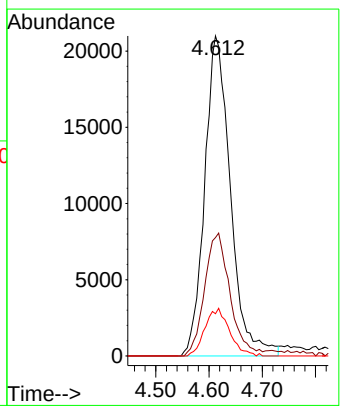


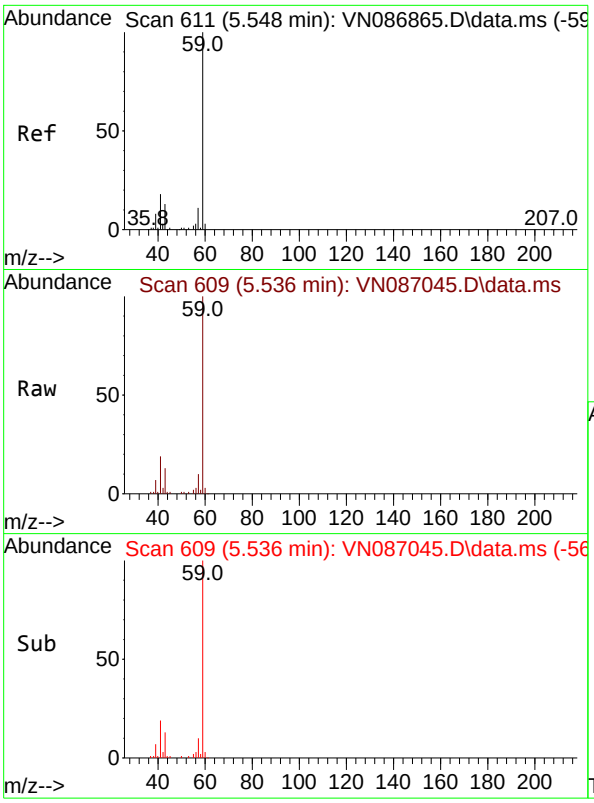


#10
Methyl Iodide
Concen: 27.875 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:142 Resp: 70472

Ion	Ratio	Lower	Upper
142	100		
127	37.0	30.9	46.3
141	13.2	10.4	15.6



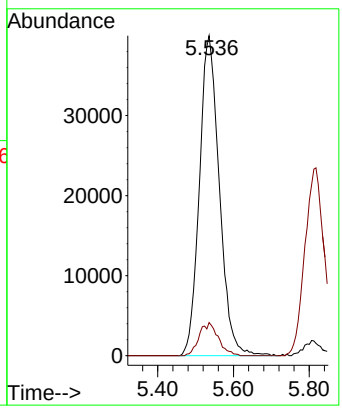


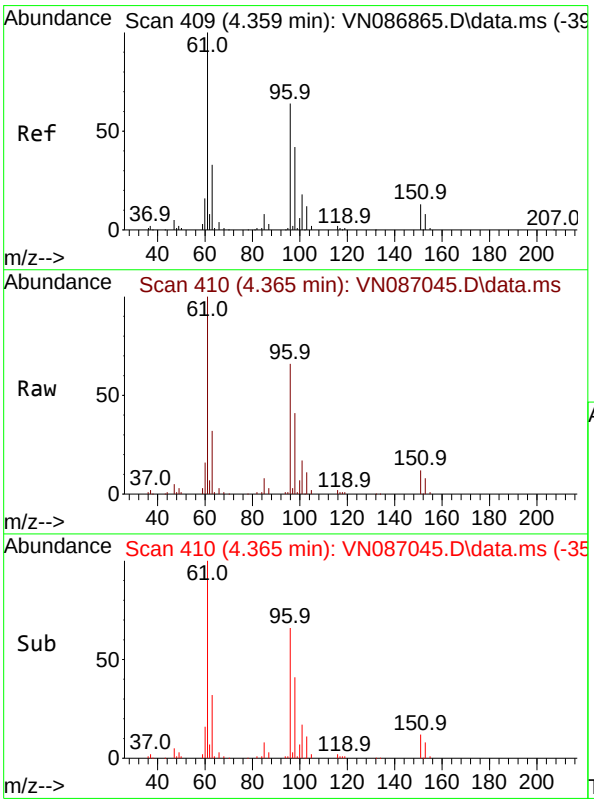
#11
Tert butyl alcohol
Concen: 224.604 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 145967

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1

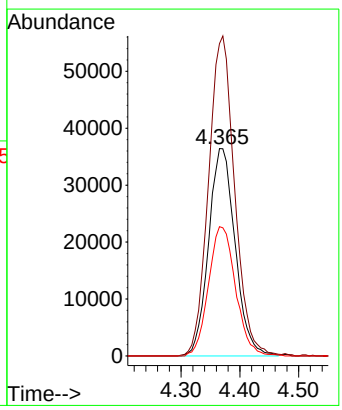


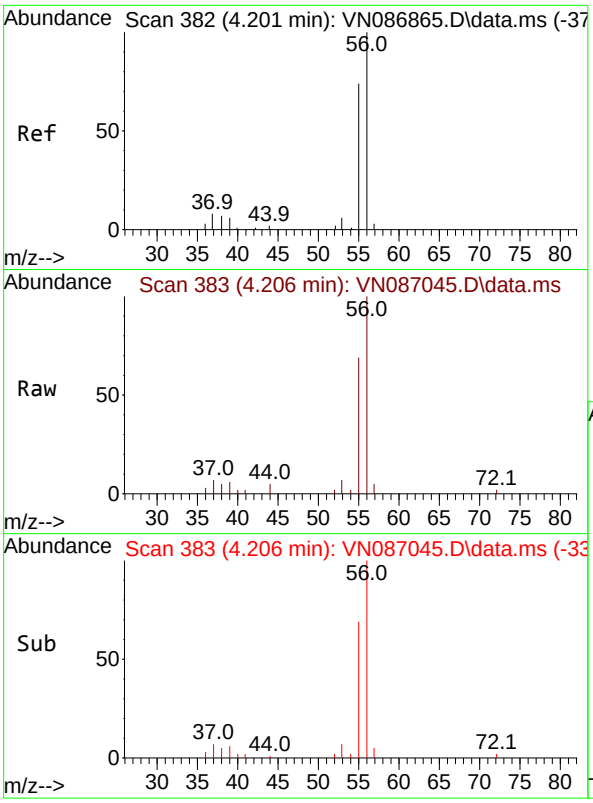


#12
1,1-Dichloroethene
Concen: 57.428 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 96 Resp: 114343

Ion	Ratio	Lower	Upper
96	100		
61	150.6	125.8	188.6
98	62.3	52.5	78.7



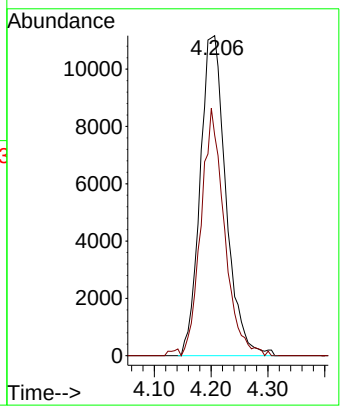


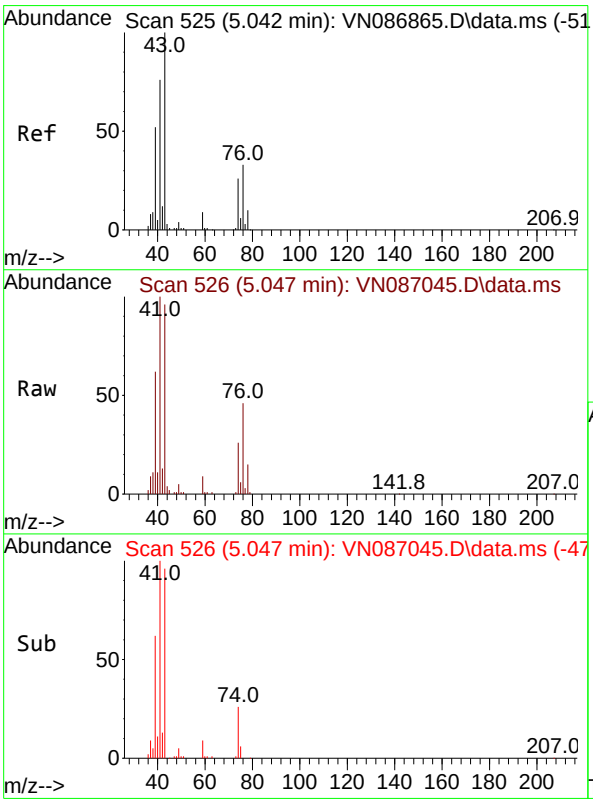
#13
Acrolein
Concen: 171.293 ug/l
RT: 4.206 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 35237

Ion	Ratio	Lower	Upper
56	100		
55	70.0	55.6	83.4

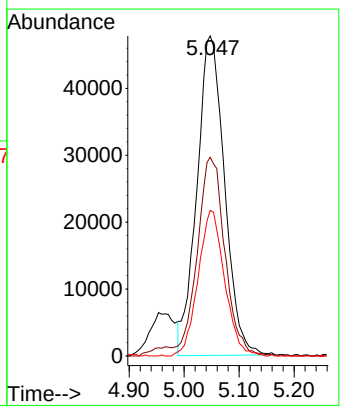


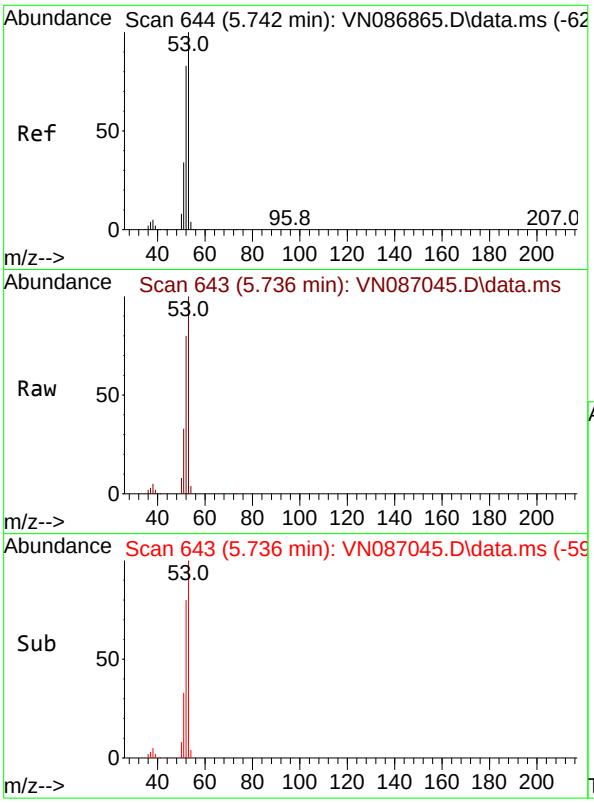


#14
Allyl chloride
Concen: 50.559 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 41 Resp: 166948

Ion	Ratio	Lower	Upper
41	100		
39	62.4	51.3	76.9
76	43.6	31.4	47.0



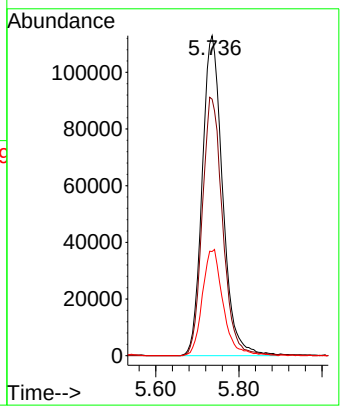


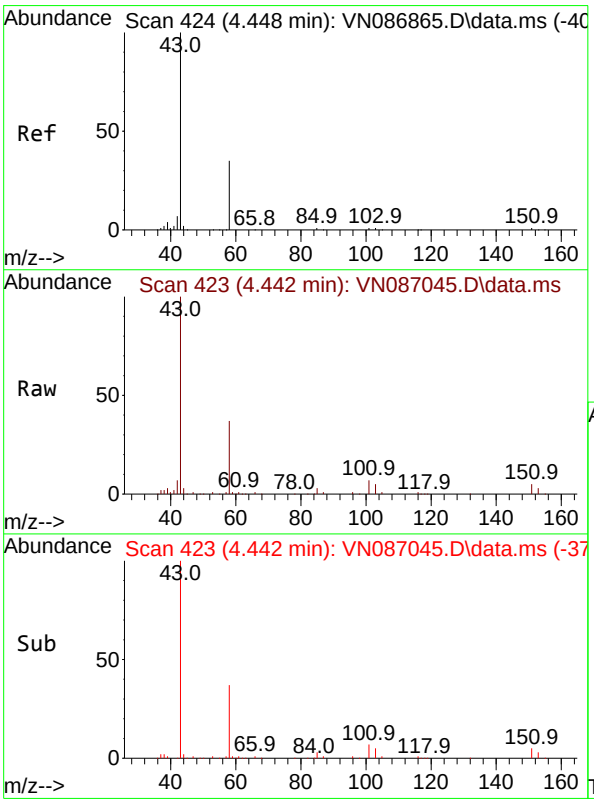
#15
Acrylonitrile
Concen: 253.912 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 385697

Ion	Ratio	Lower	Upper
53	100		
52	80.4	65.0	97.6
51	33.7	27.2	40.8

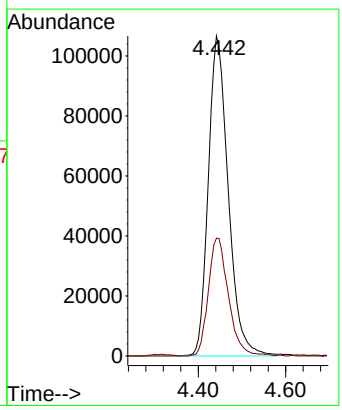


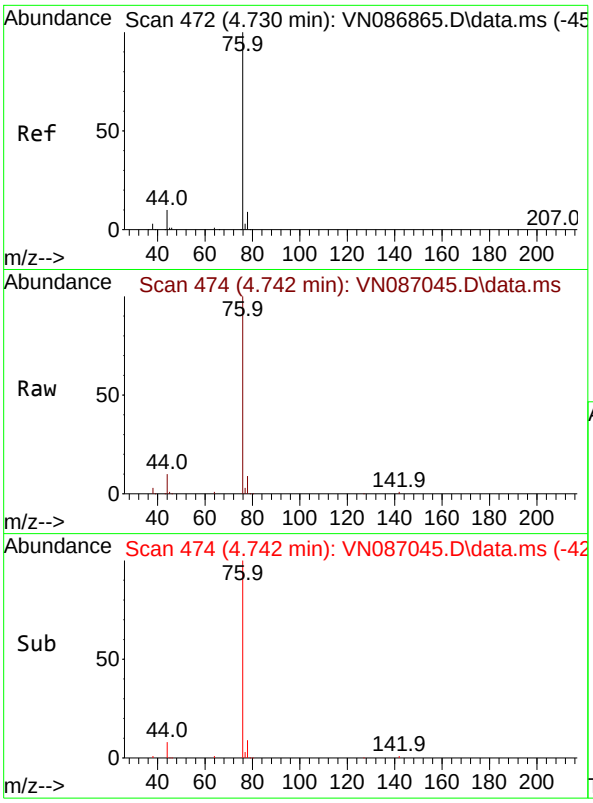


#16
Acetone
Concen: 265.816 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 43 Resp: 337624

Ion	Ratio	Lower	Upper
43	100		
58	36.8	28.0	42.0



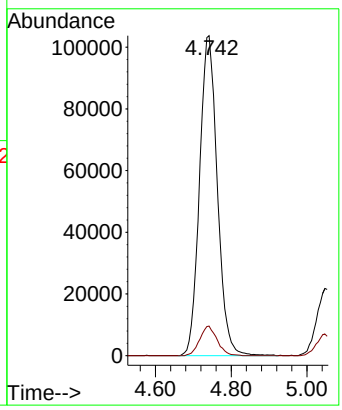


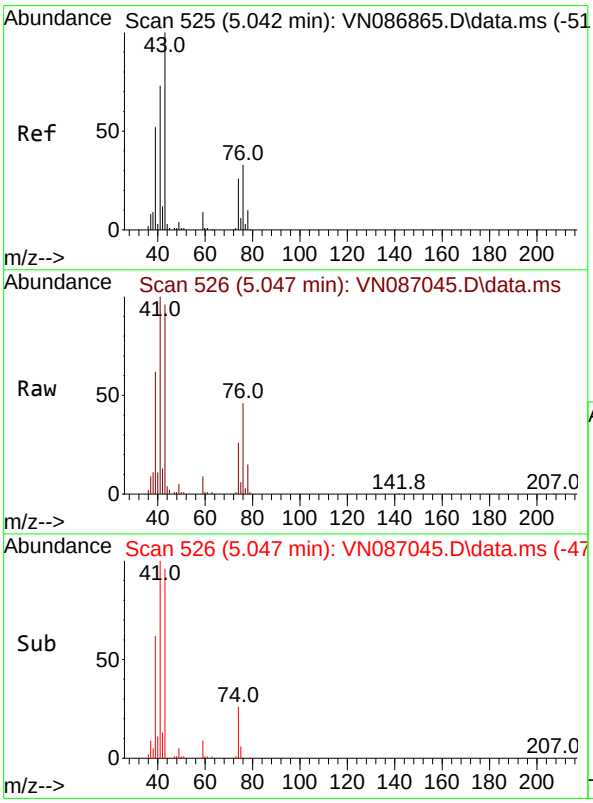
#17
Carbon Disulfide
Concen: 61.422 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 338278

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

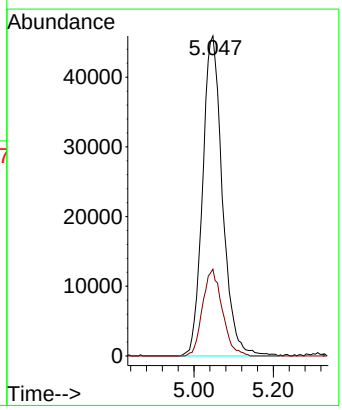


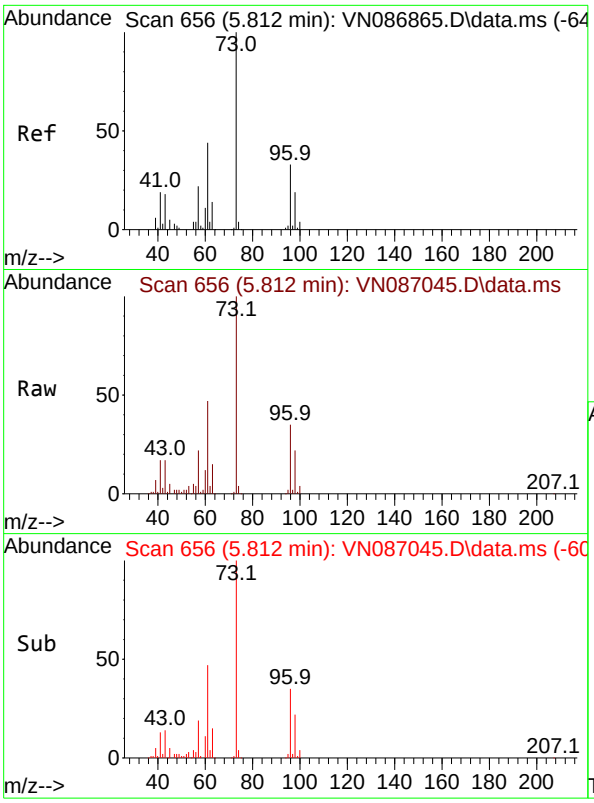


#18
Methyl Acetate
Concen: 43.119 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 43 Resp: 159602

Ion	Ratio	Lower	Upper
43	100		
74	26.9	20.7	31.1



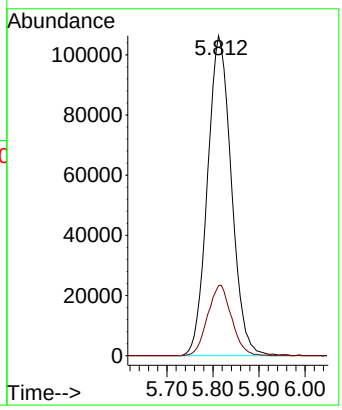


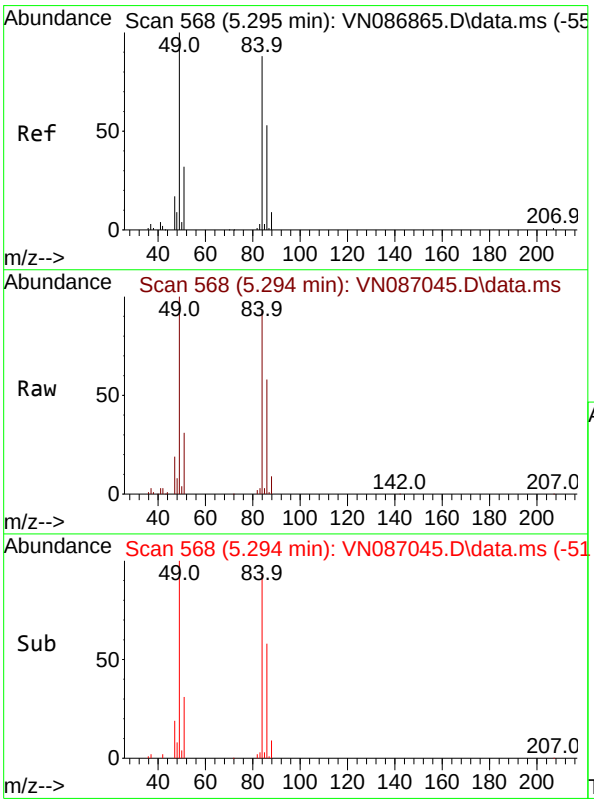
#19
Methyl tert-butyl Ether
Concen: 53.139 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 383089

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.4	26.2

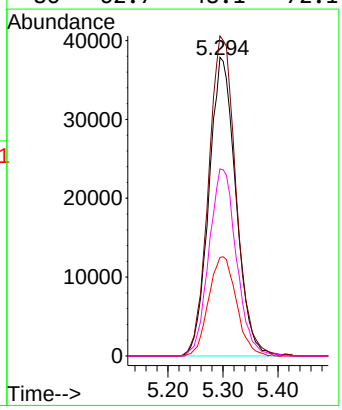


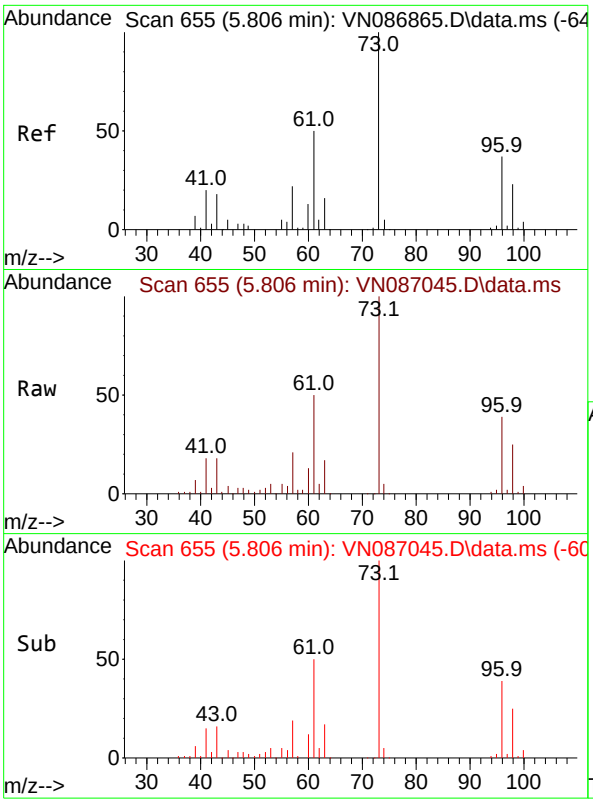


#20
Methylene Chloride
Concen: 54.089 ug/l
RT: 5.294 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 84 Resp: 128619

Ion	Ratio	Lower	Upper
84	100		
49	107.2	90.5	135.7
51	33.0	28.5	42.7
86	62.7	48.1	72.1



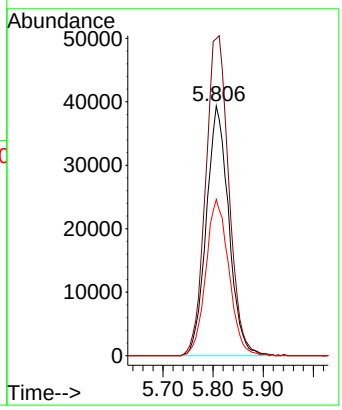


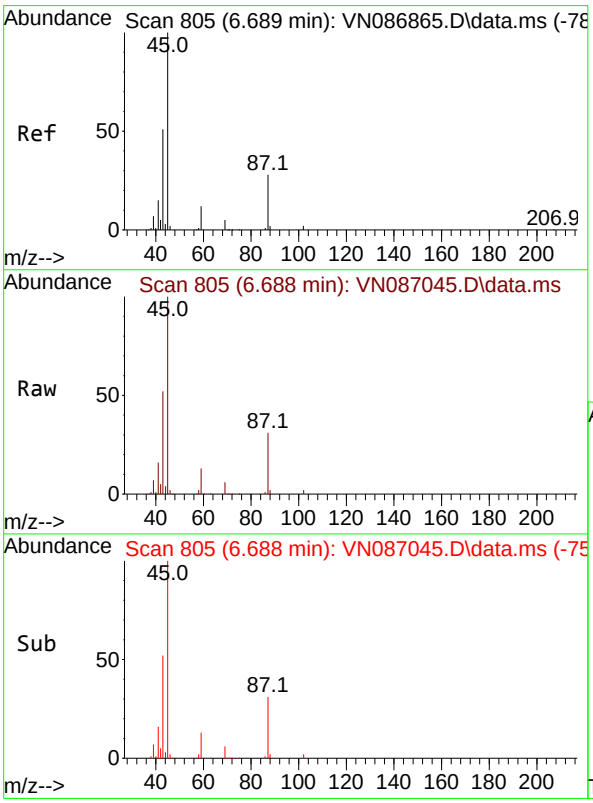
#21
trans-1,2-Dichloroethene
Concen: 55.186 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 122249

Ion	Ratio	Lower	Upper
96	100		
61	126.9	109.2	163.8
98	62.5	49.8	74.8

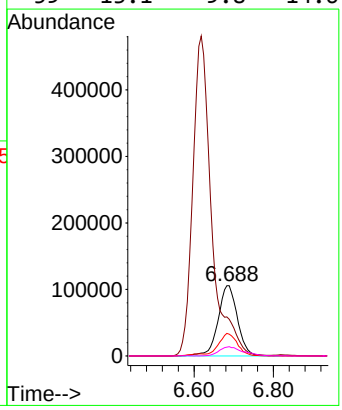


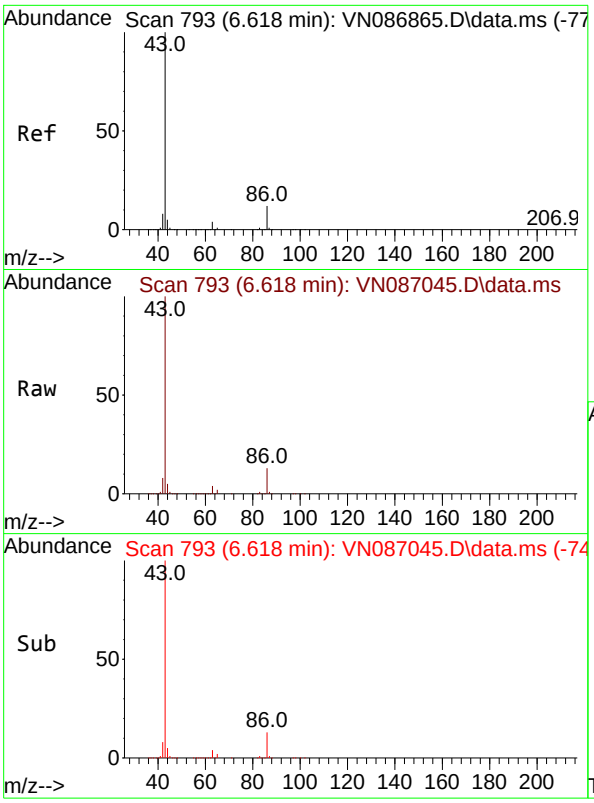


#22
Diisopropyl ether
Concen: 51.415 ug/l
RT: 6.688 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 45 Resp: 357872

Ion	Ratio	Lower	Upper
45	100		
43	50.7	41.9	62.9
87	30.9	22.4	33.6
59	13.1	9.8	14.6



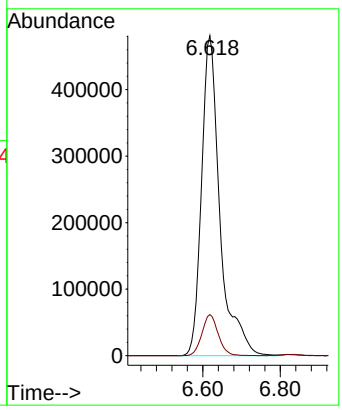


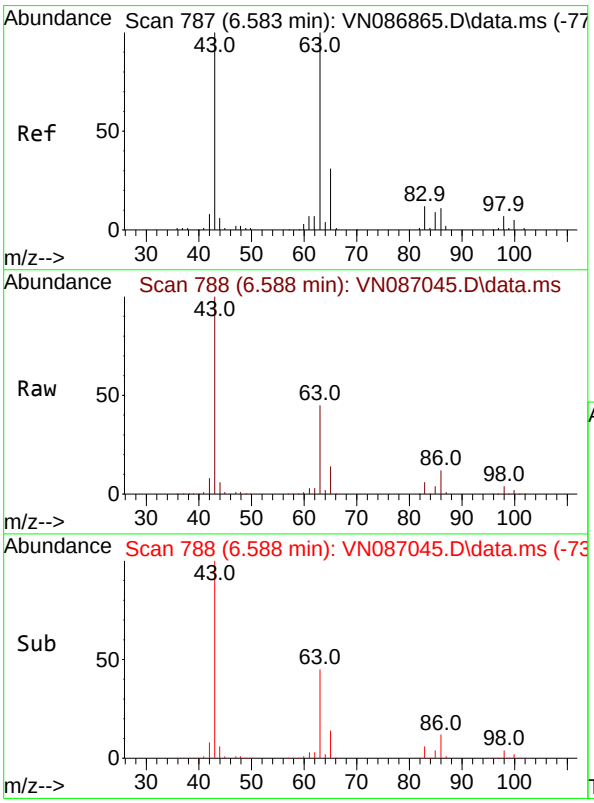
#23
Vinyl Acetate
Concen: 268.963 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1581728

Ion	Ratio	Lower	Upper
43	100		
86	12.9	9.5	14.3

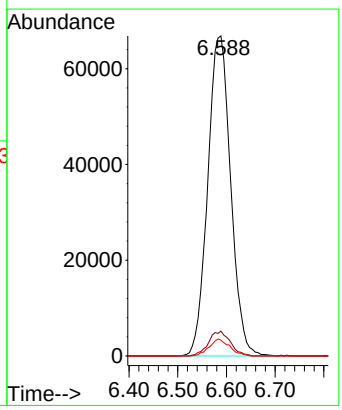


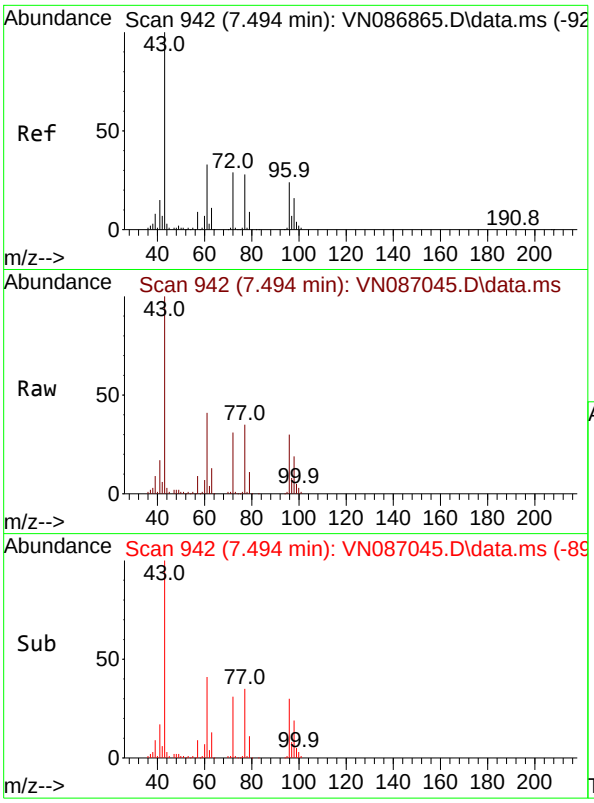


#24
1,1-Dichloroethane
Concen: 54.677 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 63 Resp: 219016

Ion	Ratio	Lower	Upper
63	100		
98	7.7	3.6	10.8
100	4.9	2.6	7.8



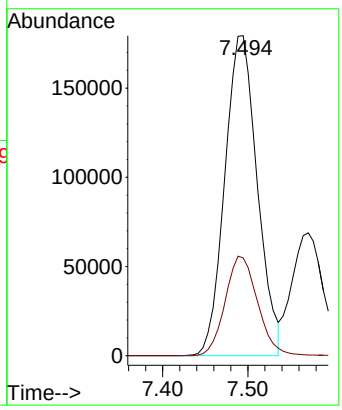


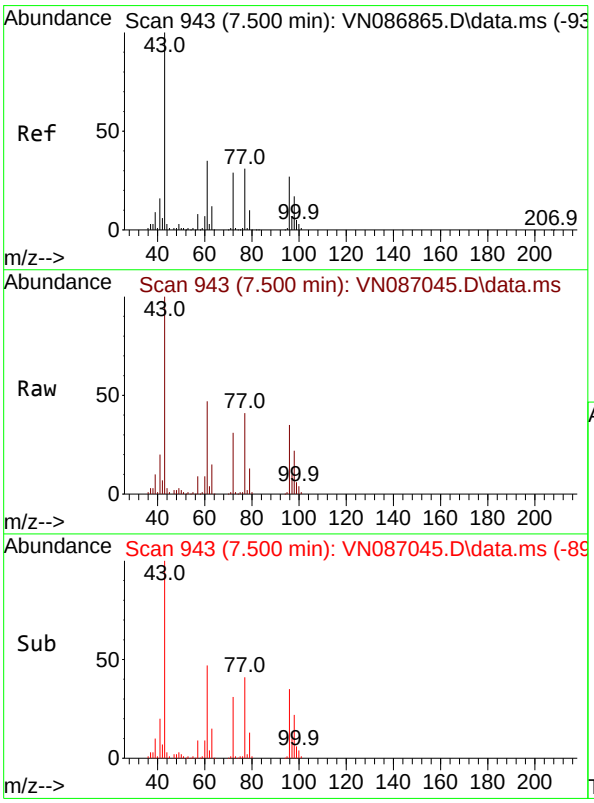
#25
2-Butanone
Concen: 230.777 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 476455

Ion	Ratio	Lower	Upper
43	100		
72	30.5	23.0	34.6

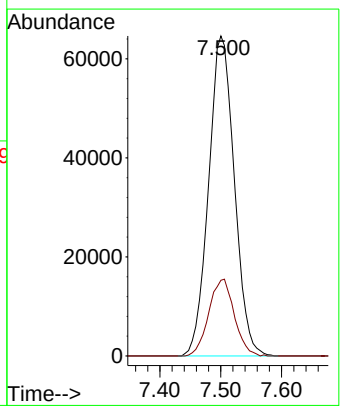


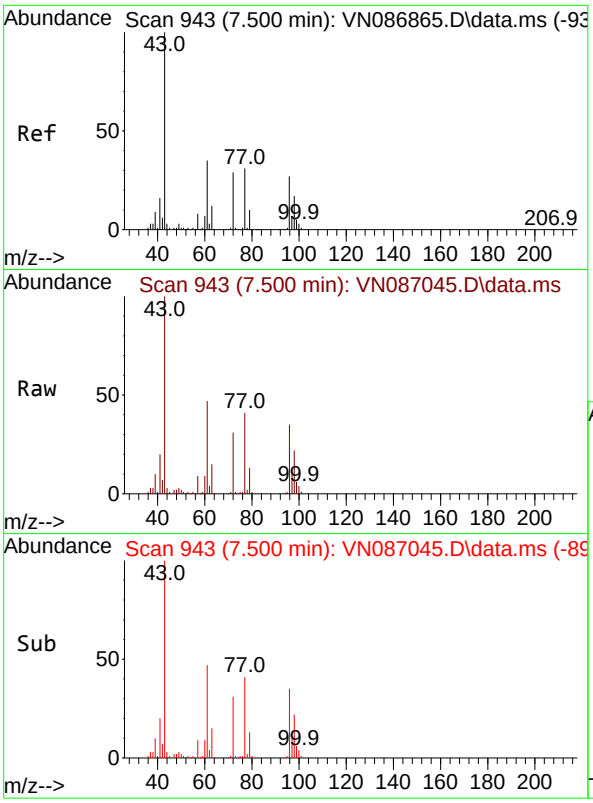


#26
2,2-Dichloropropane
Concen: 60.894 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 77 Resp: 189738

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.7



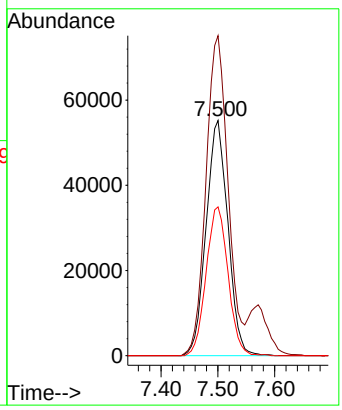


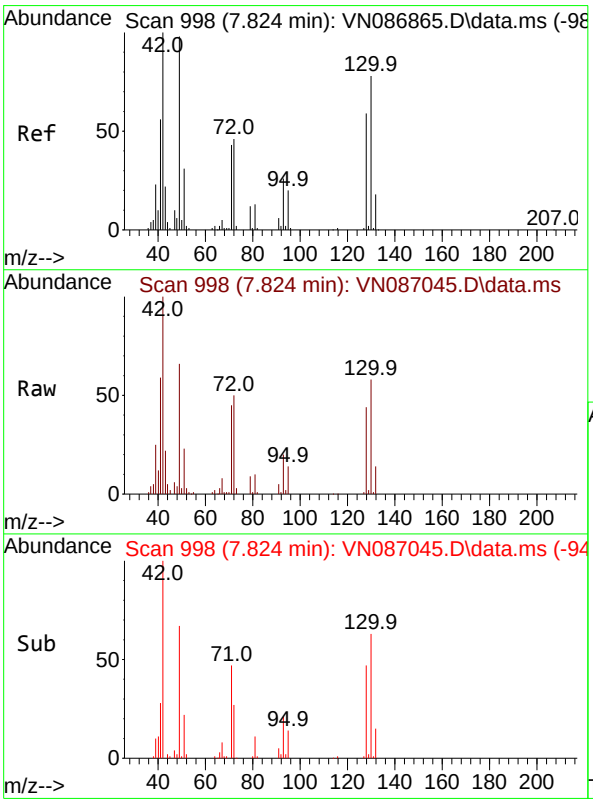
#27
cis-1,2-Dichloroethene
Concen: 55.499 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 147033

Ion	Ratio	Lower	Upper
96	100		
61	137.8	0.0	278.0
98	63.8	0.0	128.2

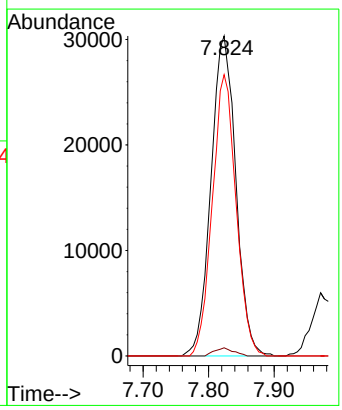


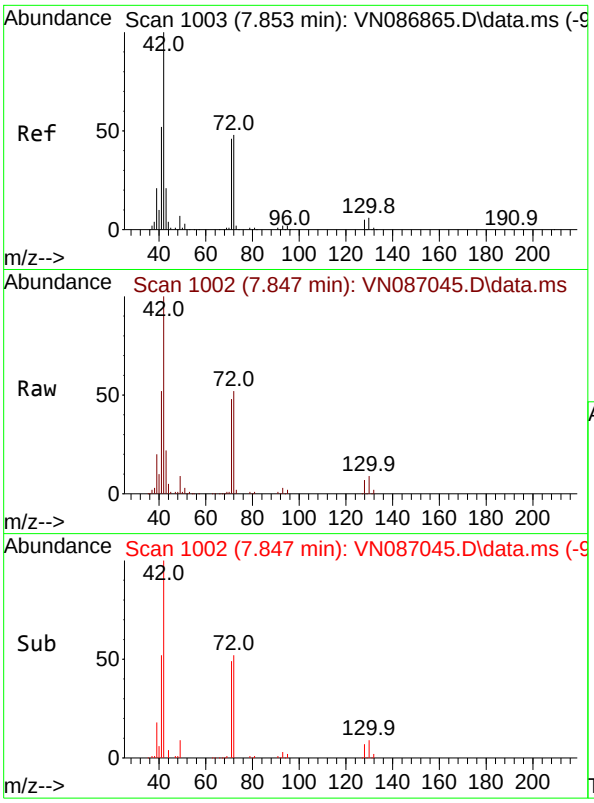


#28
Bromochloromethane
Concen: 40.537 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 49 Resp: 79836

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	83.9	62.2	93.2



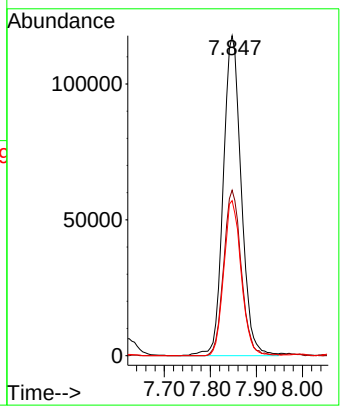


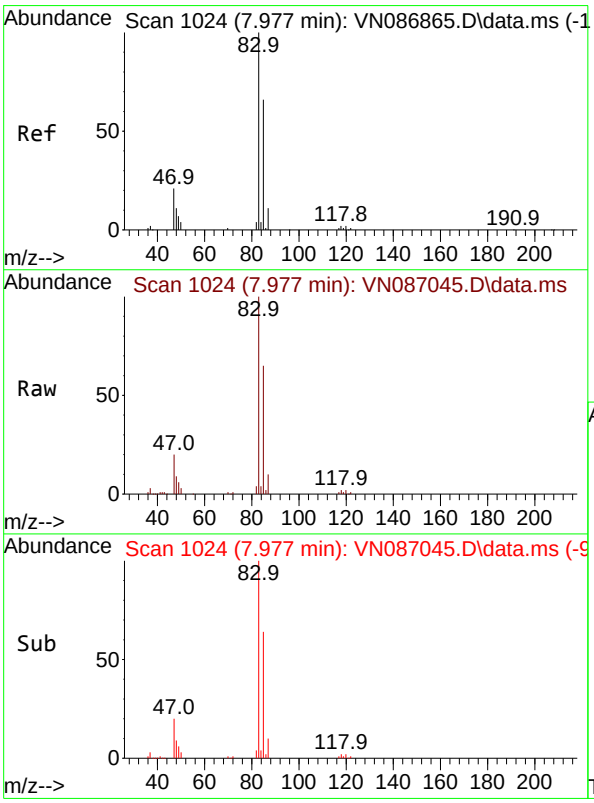
#29
Tetrahydrofuran
Concen: 236.990 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 318733

Ion	Ratio	Lower	Upper
42	100		
72	50.5	37.8	56.6
71	47.0	35.6	53.4

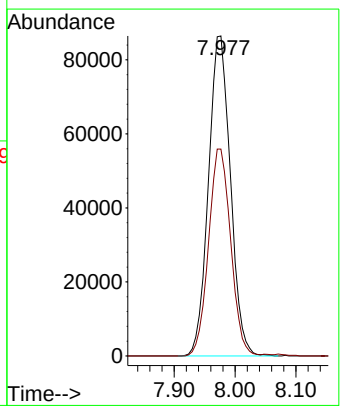


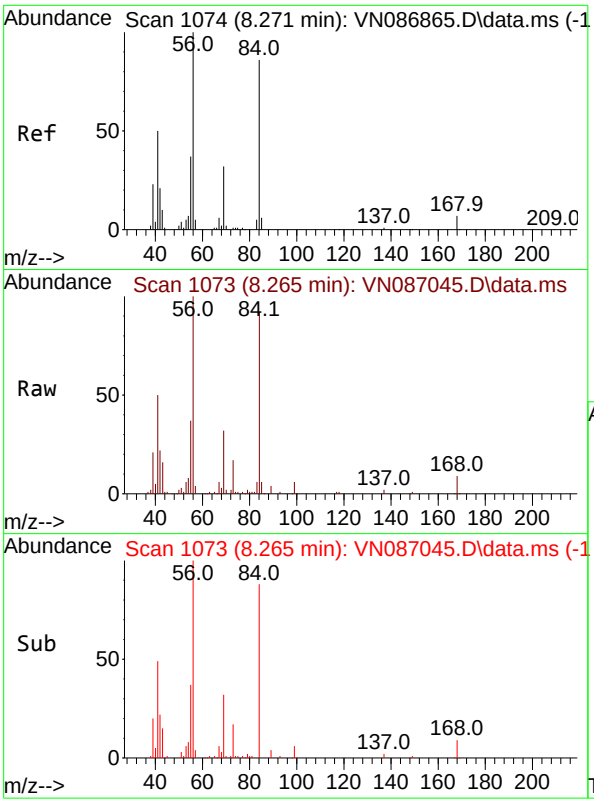


#30
Chloroform
Concen: 54.181 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 83 Resp: 216737

Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.9	79.3



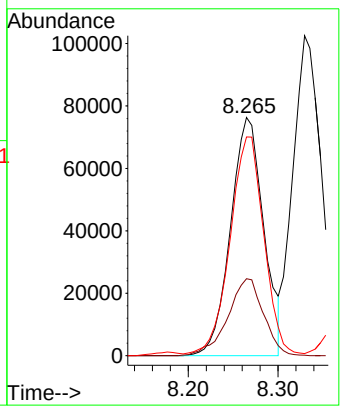


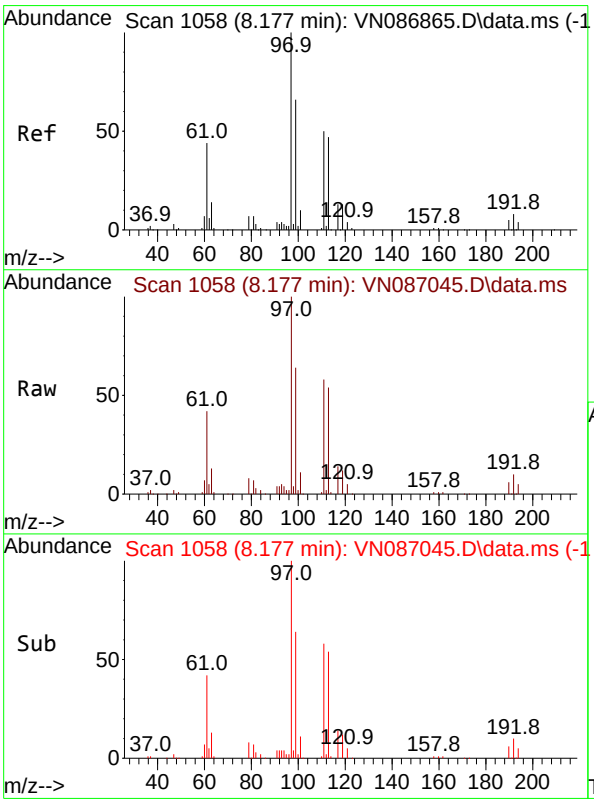
#31
Cyclohexane
Concen: 50.460 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 196017

Ion	Ratio	Lower	Upper
56	100		
69	32.3	25.4	38.0
84	90.8	68.8	103.2

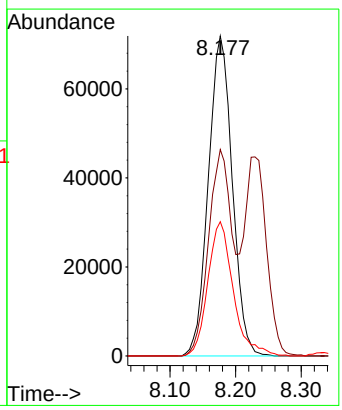


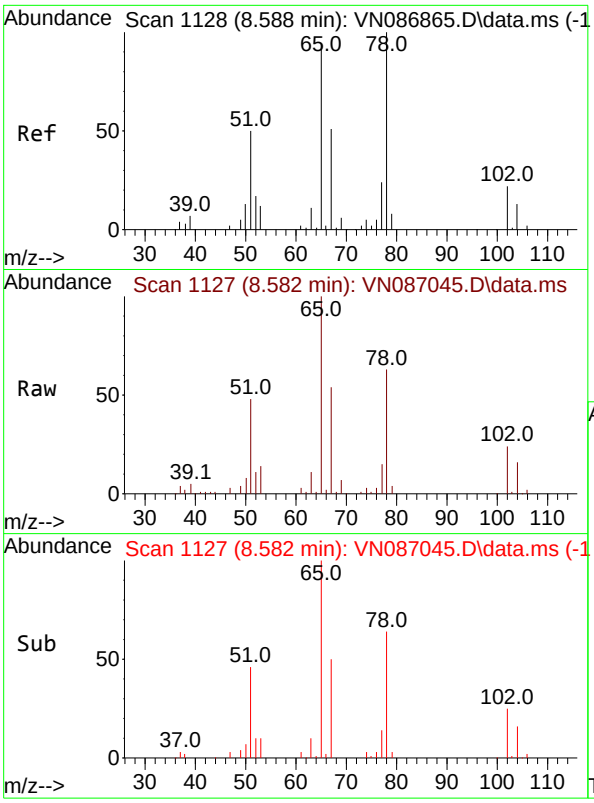


#32
1,1,1-Trichloroethane
Concen: 53.614 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 97 Resp: 182413

Ion	Ratio	Lower	Upper
97	100		
99	61.5	52.0	78.0
61	44.5	35.9	53.9



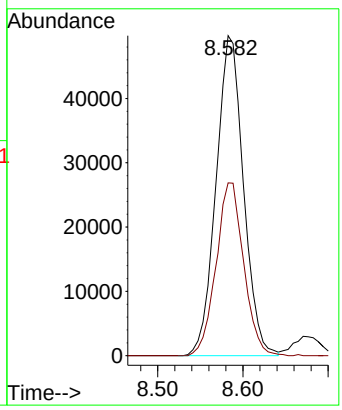


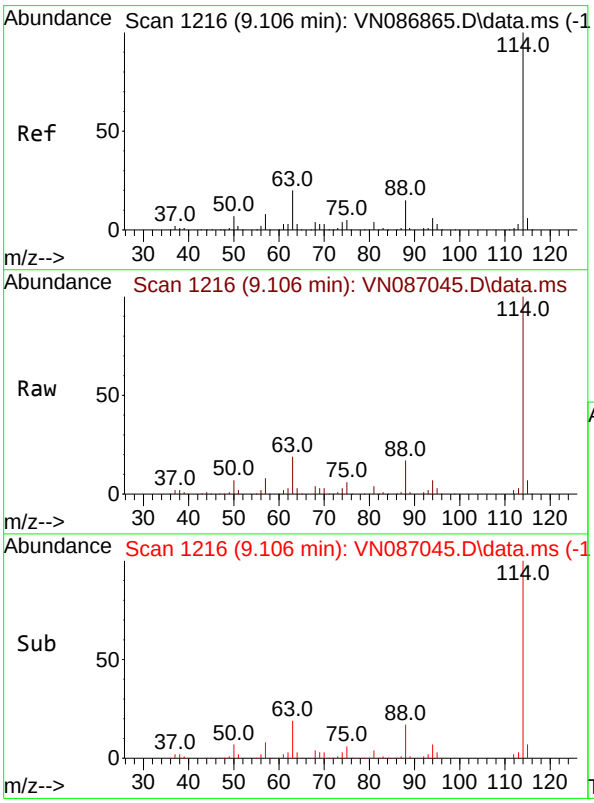
#33
1,2-Dichloroethane-d4
Concen: 46.417 ug/l
RT: 8.582 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 111173

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.6

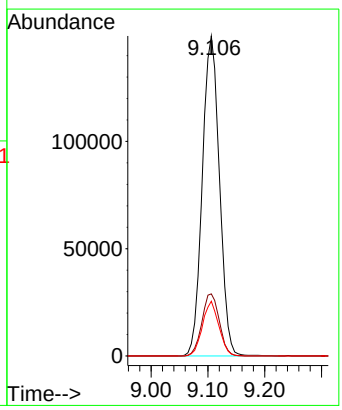


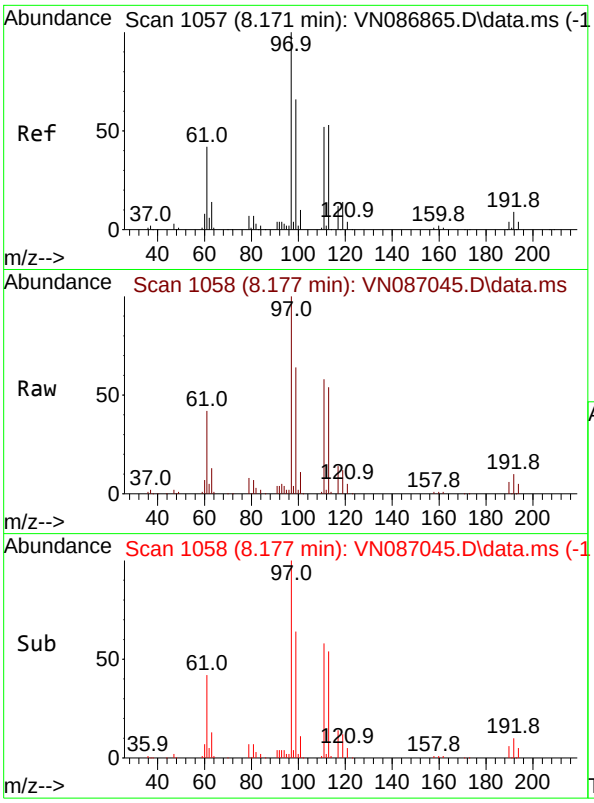


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:114 Resp: 312096

Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	39.6
88	17.1	0.0	30.2



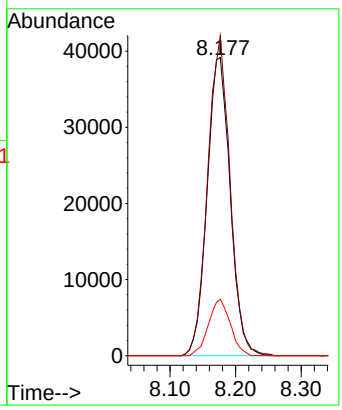


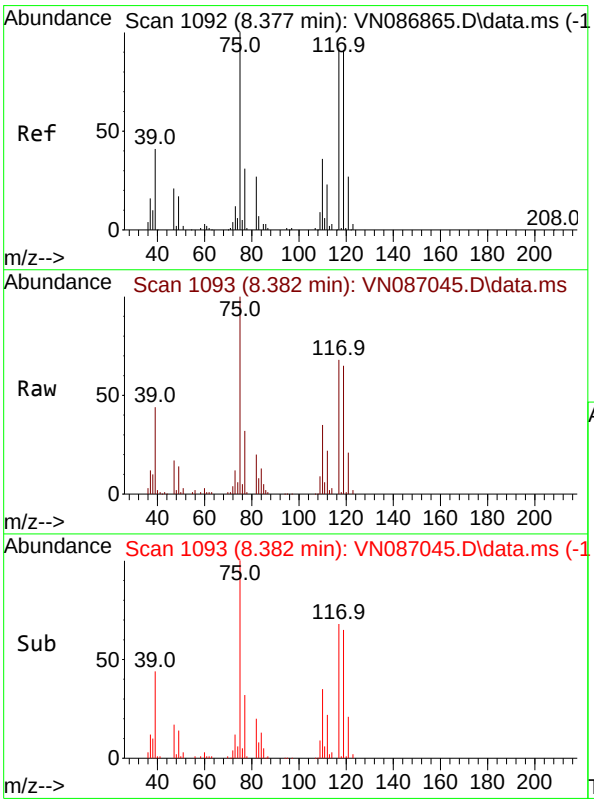
#35
Dibromofluoromethane
Concen: 51.895 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 95983

Ion	Ratio	Lower	Upper
113	100		
111	103.9	84.2	126.2
192	17.9	14.2	21.4

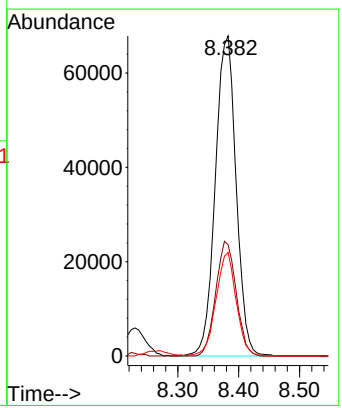


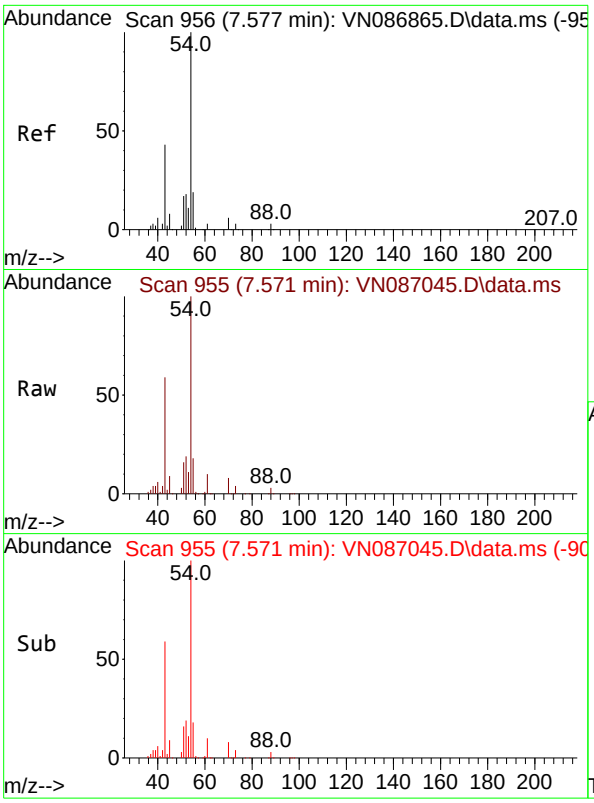


#36
1,1-Dichloropropene
Concen: 58.436 ug/l
RT: 8.382 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 75 Resp: 161052

Ion	Ratio	Lower	Upper
75	100		
110	35.2	17.6	52.9
77	31.5	25.3	37.9



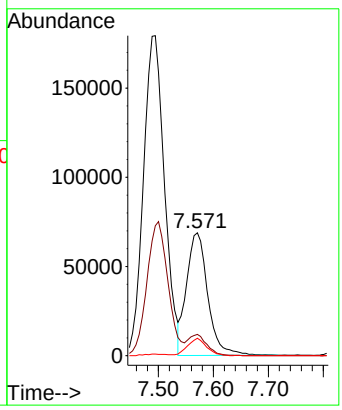


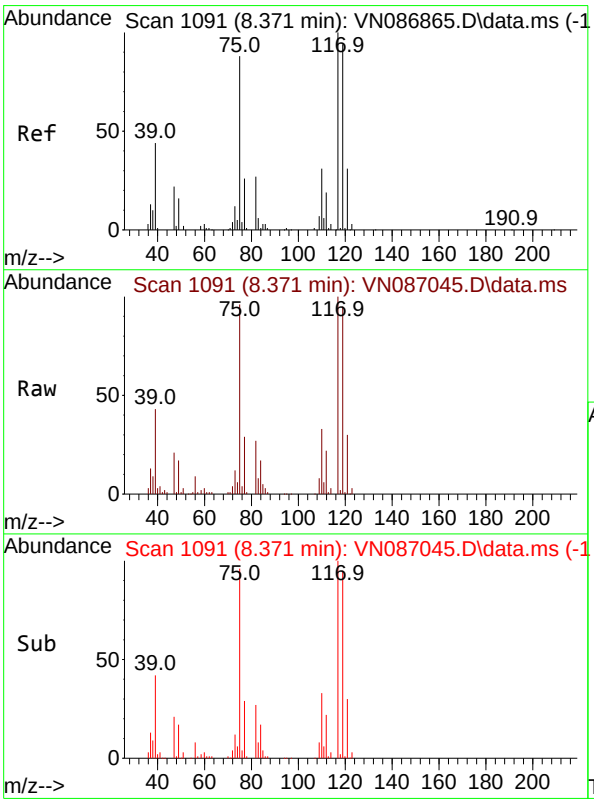
#37
Ethyl Acetate
Concen: 52.606 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 184563

Ion	Ratio	Lower	Upper
43	100		
61	15.1	12.1	18.1
70	12.7	9.8	14.6

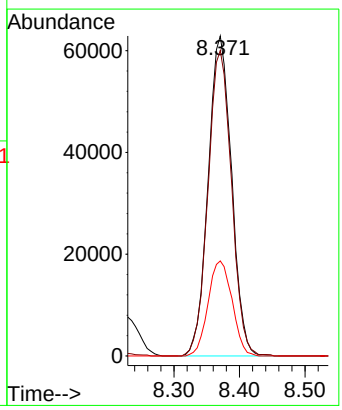


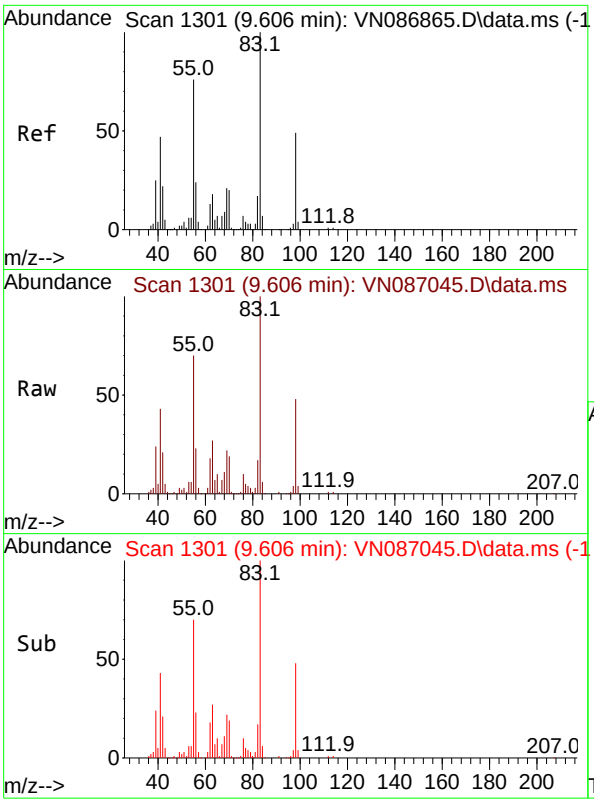


#38
Carbon Tetrachloride
Concen: 57.605 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:117 Resp: 155867

Ion	Ratio	Lower	Upper
117	100		
119	95.5	75.0	112.6
121	29.7	24.9	37.3



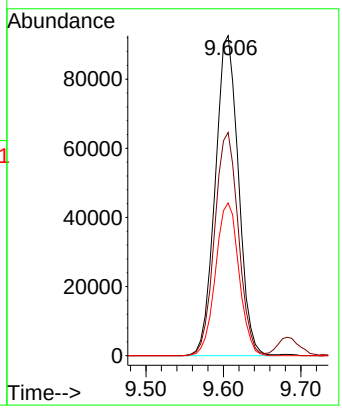


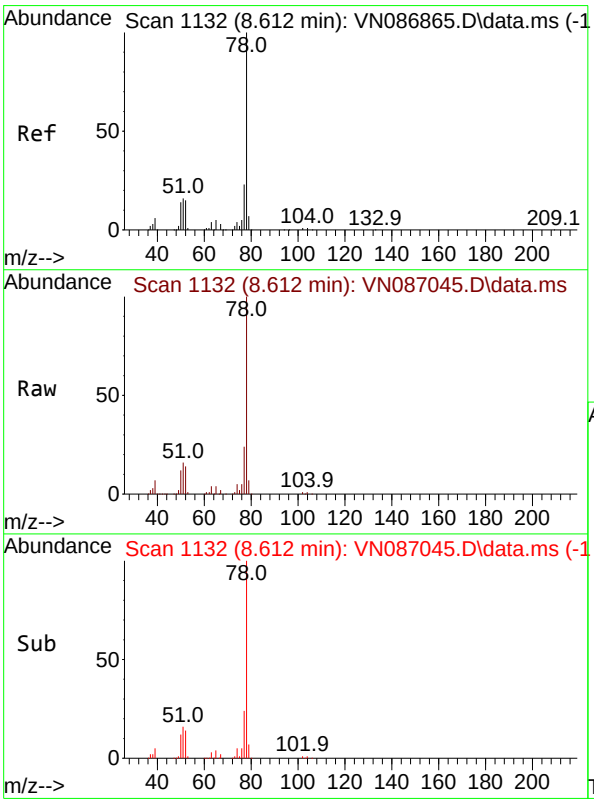
#39
Methylcyclohexane
Concen: 51.151 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 193140

Ion	Ratio	Lower	Upper
83	100		
55	69.8	61.0	91.6
98	47.7	38.9	58.3

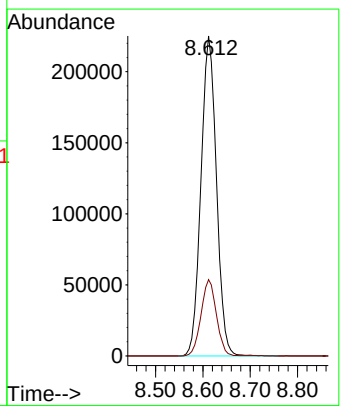


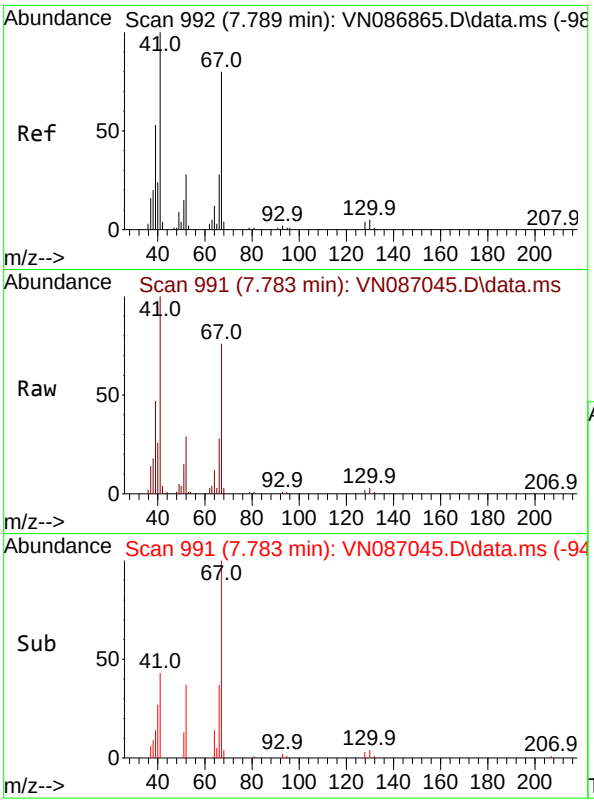


#40
Benzene
Concen: 56.603 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 78 Resp: 510124

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.7	28.1



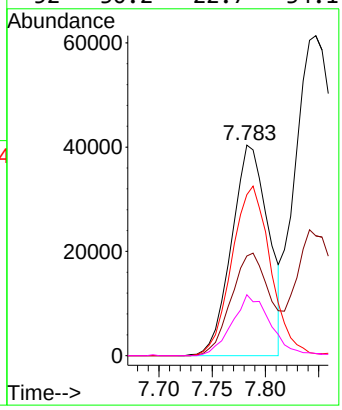


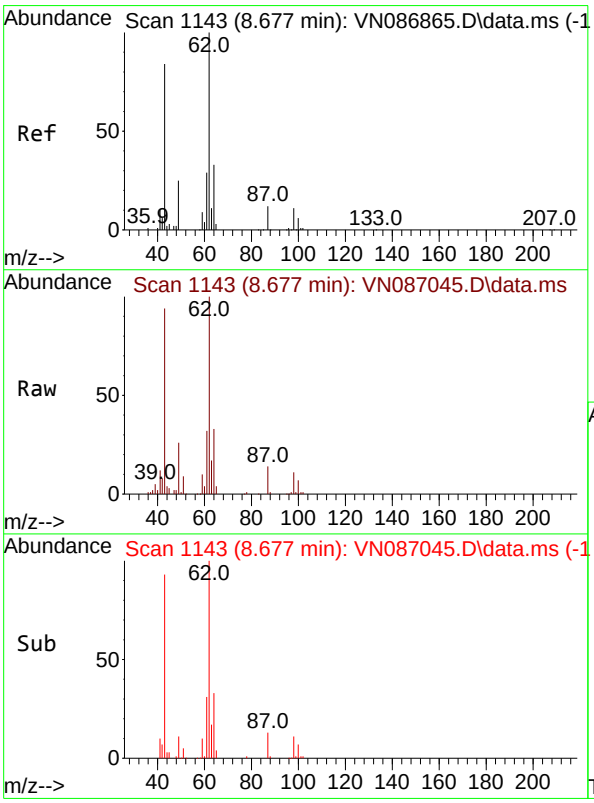
#41
Methacrylonitrile
Concen: 49.441 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 97416

Ion	Ratio	Lower	Upper
41	100		
39	53.1	41.2	61.8
67	85.2	61.4	92.2
52	30.2	22.7	34.1

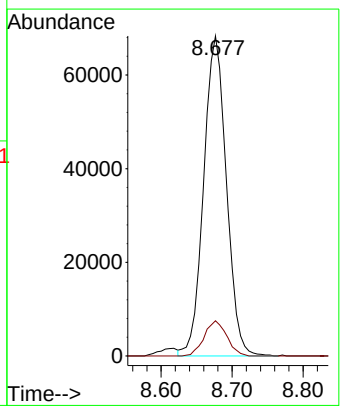


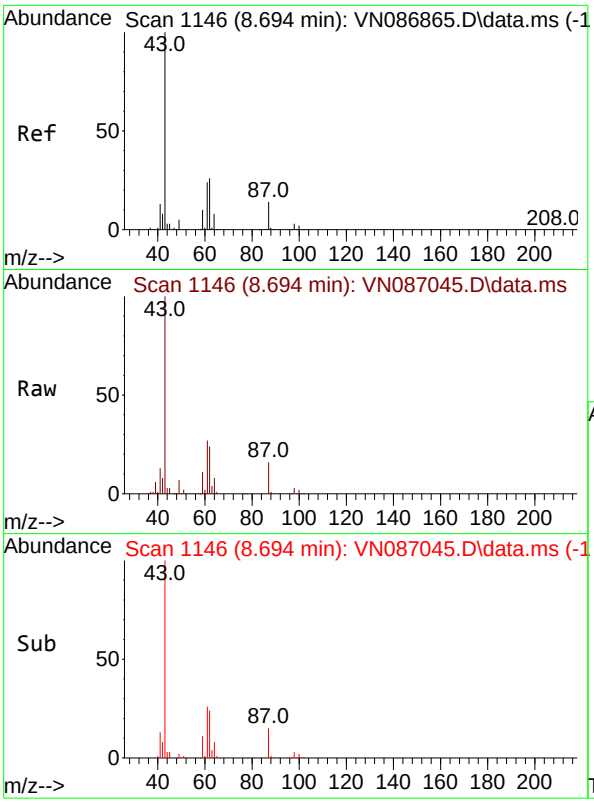


#42
1,2-Dichloroethane
Concen: 55.609 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 62 Resp: 152007

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	21.2



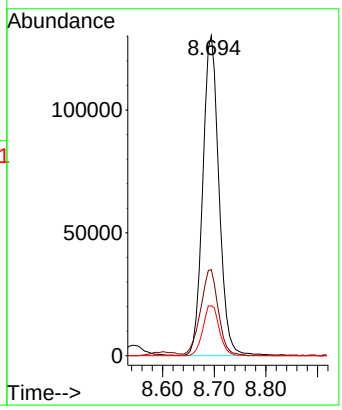


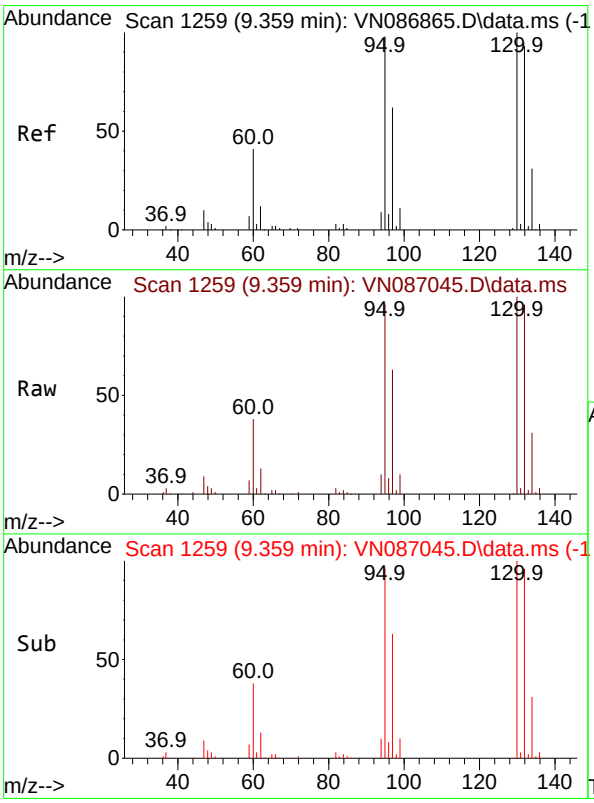
#43
Isopropyl Acetate
Concen: 50.333 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 283428

Ion	Ratio	Lower	Upper
43	100		
61	29.6	22.1	33.1
87	15.8	11.8	17.6

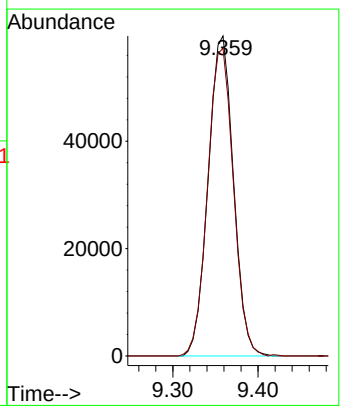


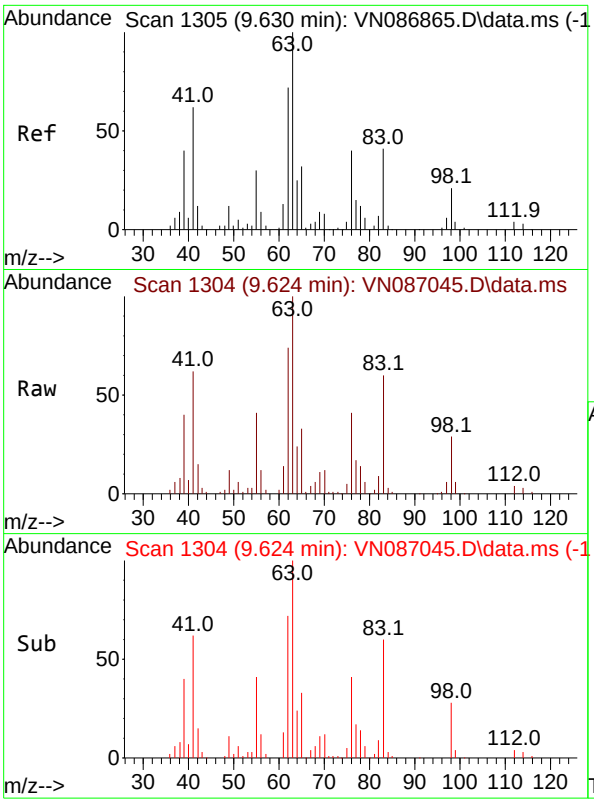


#44
Trichloroethene
Concen: 57.509 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:130 Resp: 122896

Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	196.2



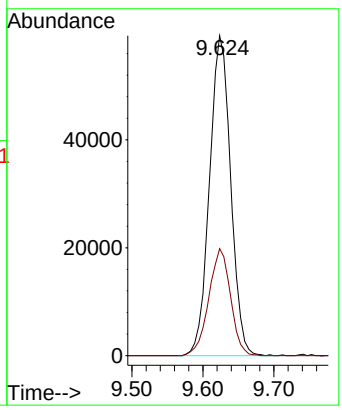


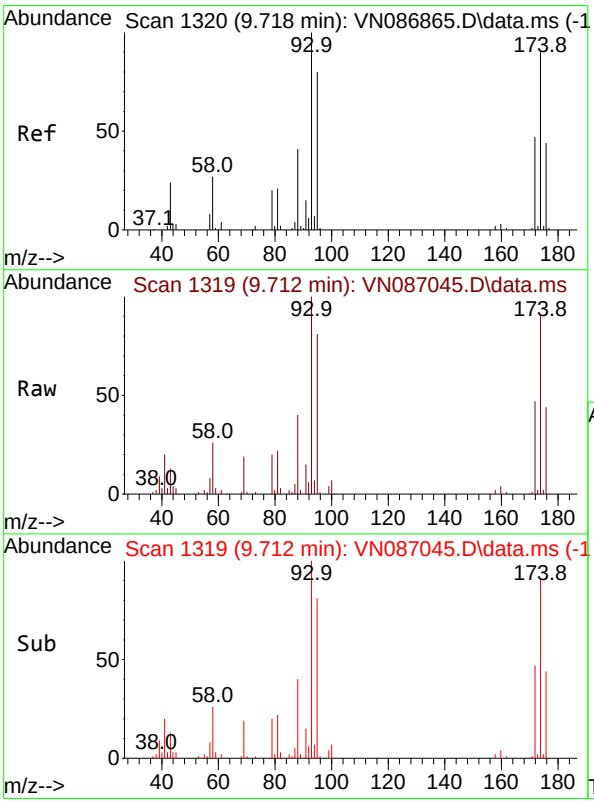
#45
1,2-Dichloropropane
Concen: 55.952 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 122677

Ion	Ratio	Lower	Upper
63	100		
65	33.5	25.5	38.3

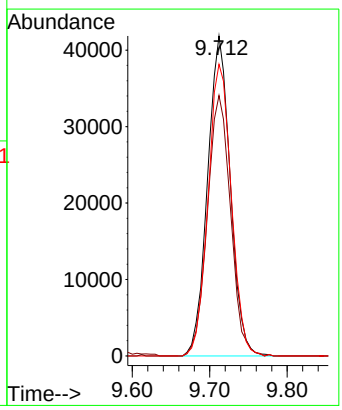


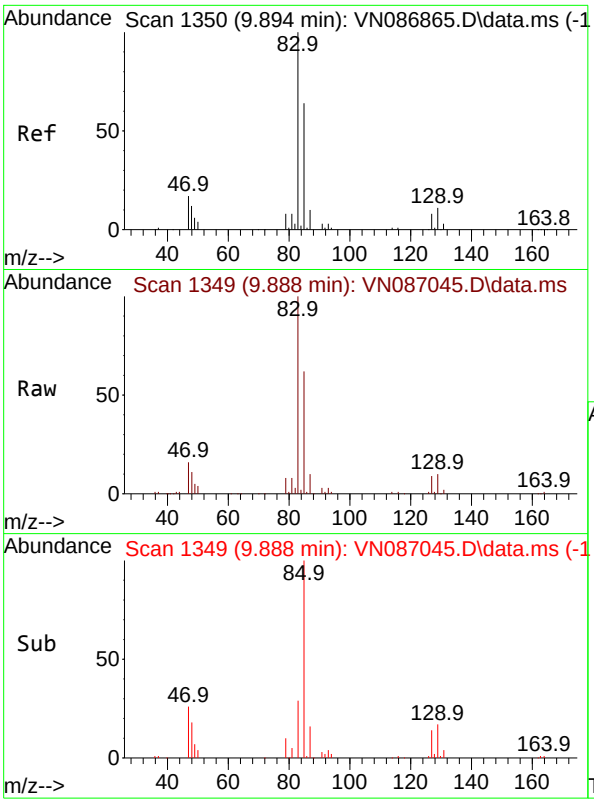


#46
Dibromomethane
Concen: 58.510 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 93 Resp: 85210

Ion	Ratio	Lower	Upper
93	100		
95	83.0	67.1	100.7
174	93.4	74.2	111.4



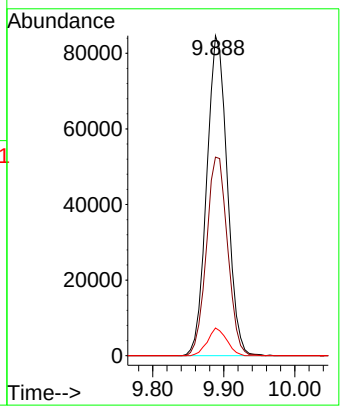


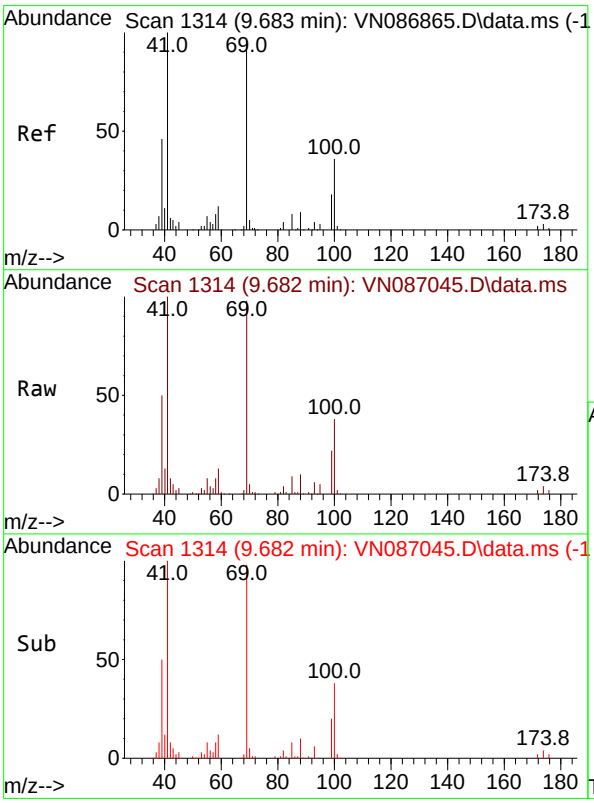
#47
Bromodichloromethane
Concen: 56.550 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 169444

Ion	Ratio	Lower	Upper
83	100		
85	62.0	50.9	76.3
127	8.7	6.6	10.0

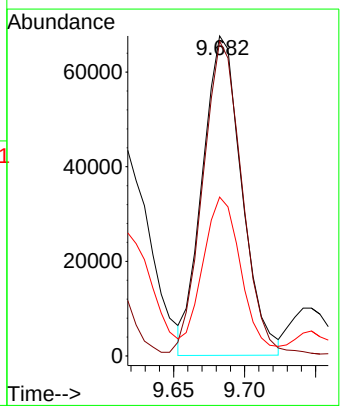


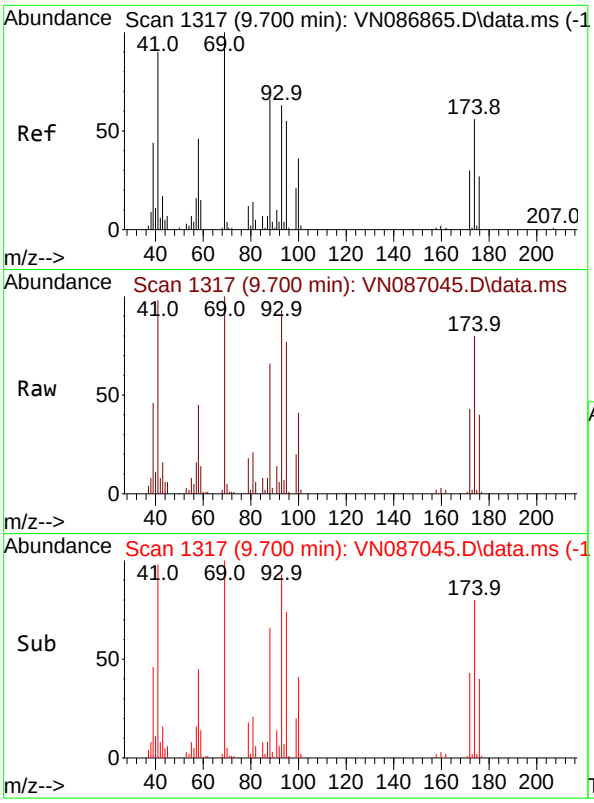


#48
Methyl methacrylate
Concen: 50.271 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 41 Resp: 130292

Ion	Ratio	Lower	Upper
41	100		
69	99.8	74.6	112.0
39	49.4	40.2	60.4



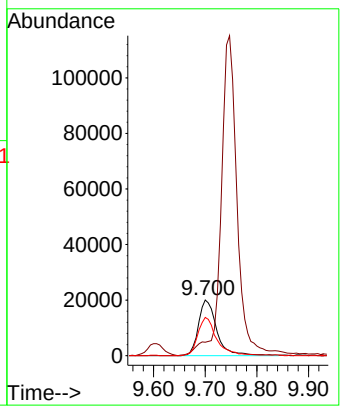


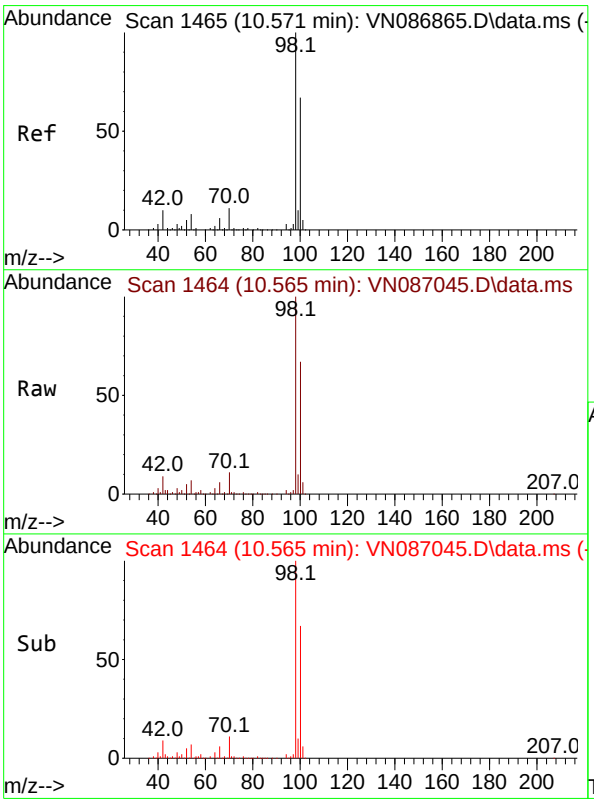
#49
1,4-Dioxane
Concen: 1045.473 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 49294

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	71.0	57.7	86.5

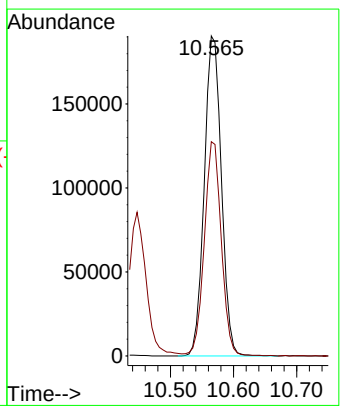


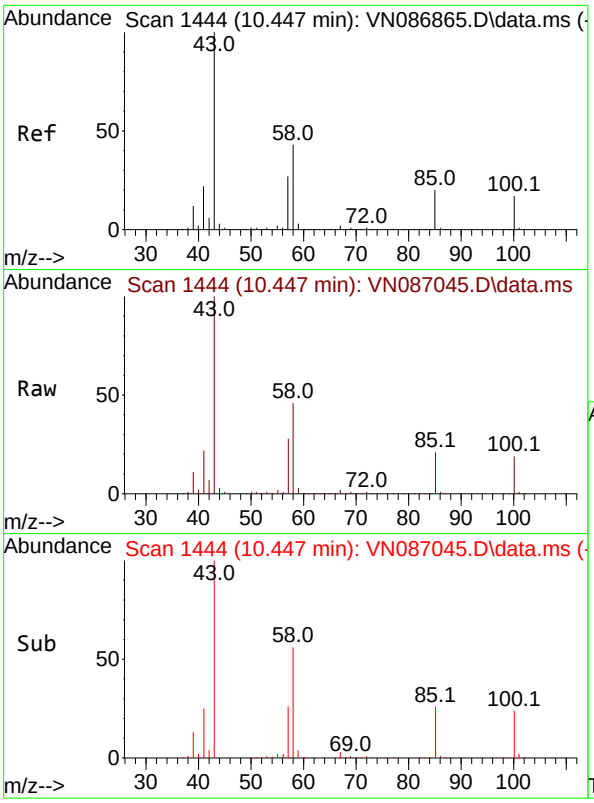


#50
Toluene-d8
Concen: 48.901 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 98 Resp: 358050

Ion	Ratio	Lower	Upper
98	100		
100	66.7	53.4	80.0



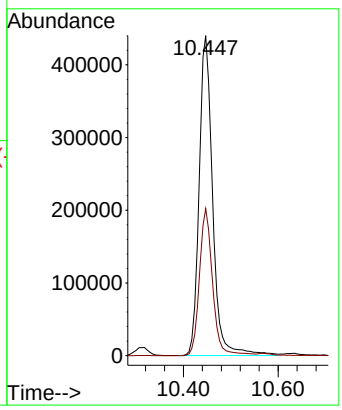


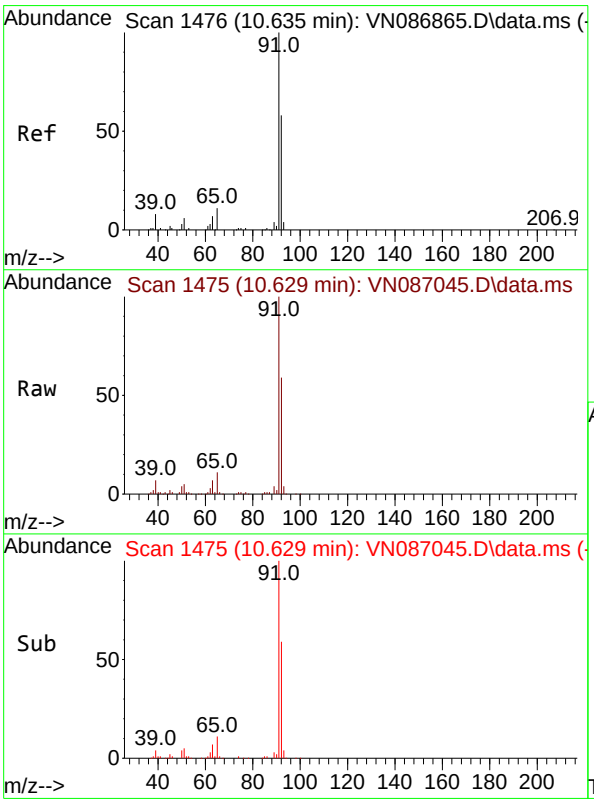
#51
4-Methyl-2-Pentanone
Concen: 257.739 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 873718

Ion	Ratio	Lower	Upper
43	100		
58	44.7	34.2	51.4

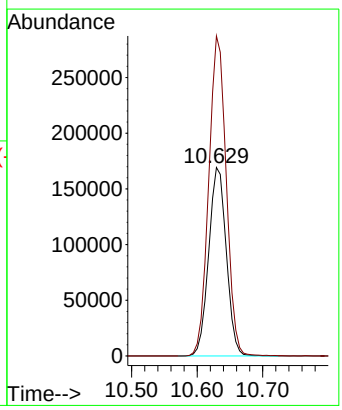


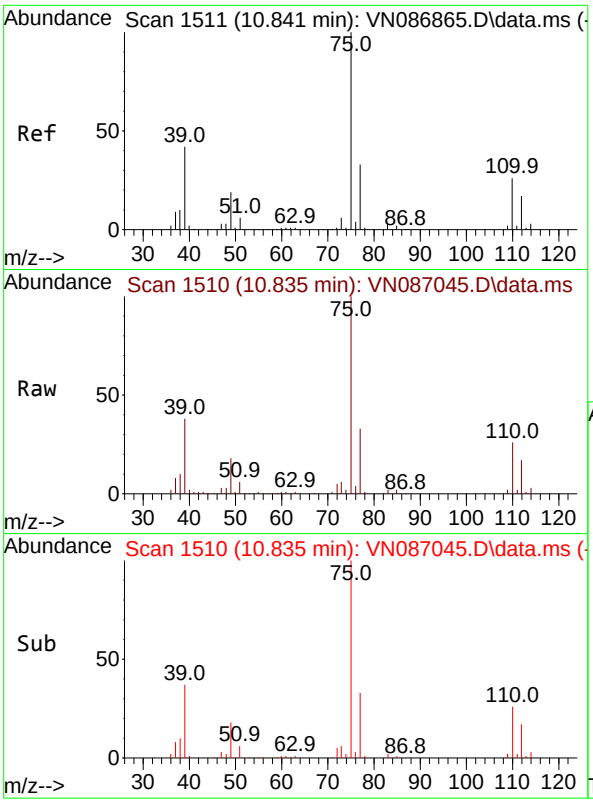


#52
Toluene
Concen: 57.288 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 92 Resp: 315522

Ion	Ratio	Lower	Upper
92	100		
91	168.9	136.5	204.7



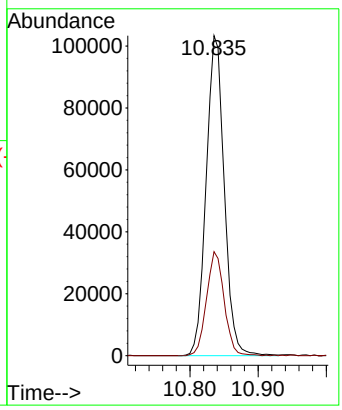


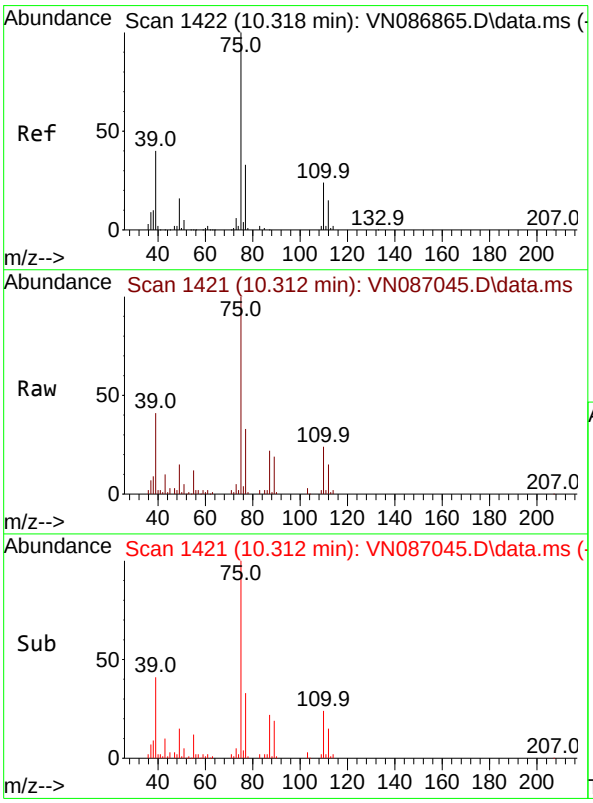
#53
t-1,3-Dichloropropene
Concen: 56.893 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 190622

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.4	39.6

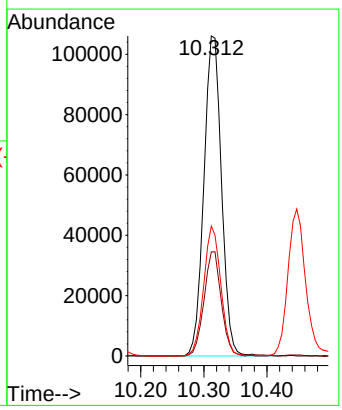


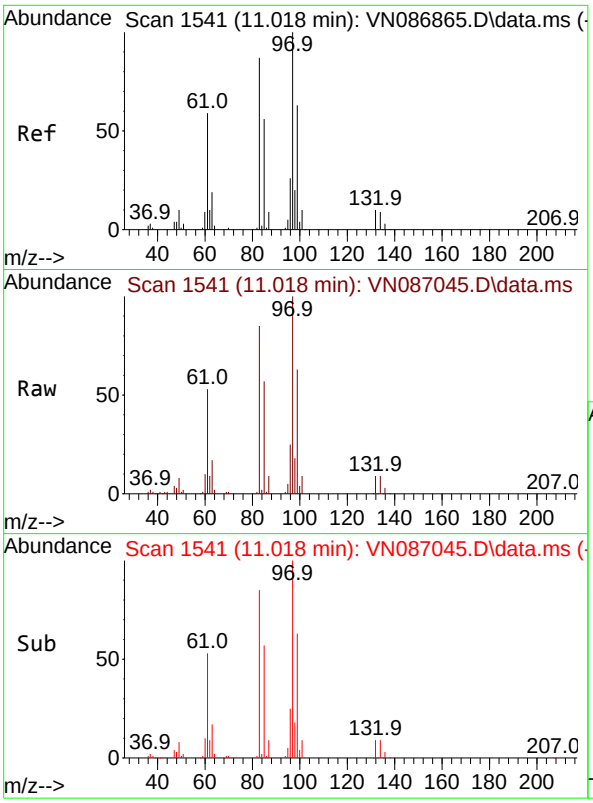


#54
cis-1,3-Dichloropropene
Concen: 57.231 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 75 Resp: 205171

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.2	39.4
39	40.6	32.3	48.5



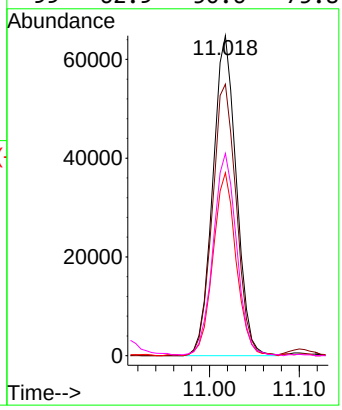


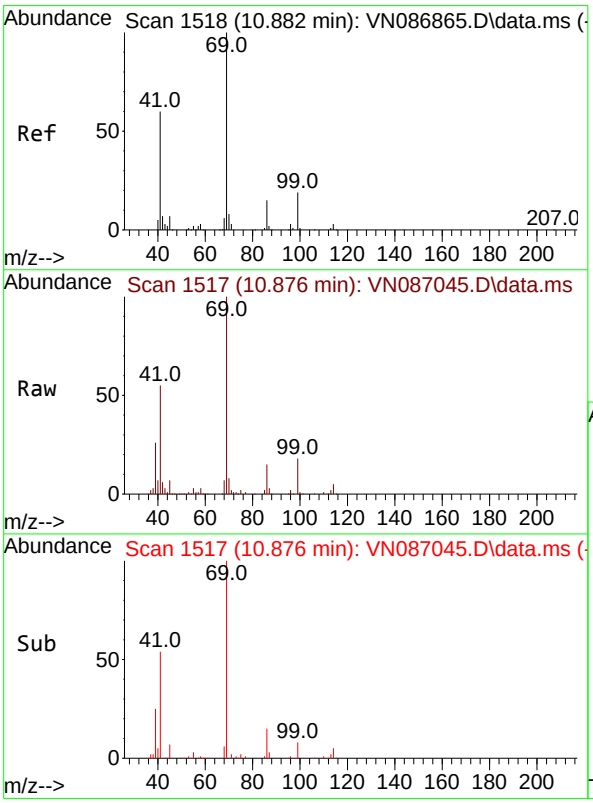
#55
1,1,2-Trichloroethane
Concen: 55.740 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 118127

Ion	Ratio	Lower	Upper
97	100		
83	84.9	69.7	104.5
85	57.2	45.1	67.7
99	62.9	50.6	75.8

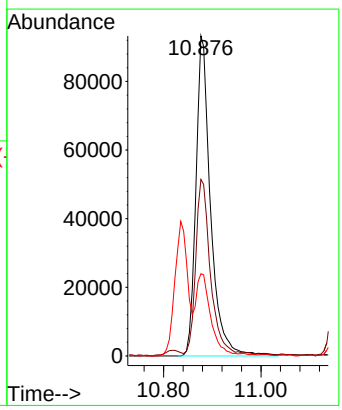


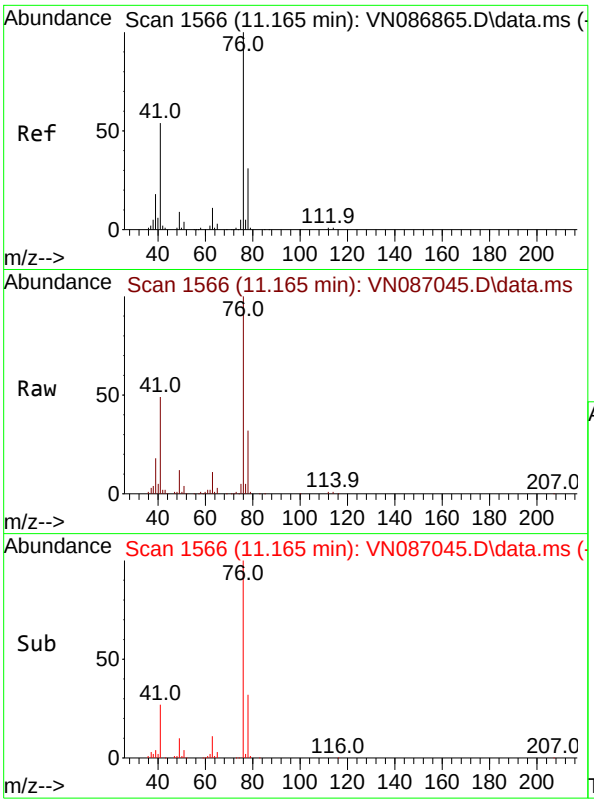


#56
Ethyl methacrylate
Concen: 57.976 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 69 Resp: 195696

Ion	Ratio	Lower	Upper
69	100		
41	55.1	47.2	70.8
39	24.8	23.0	34.6



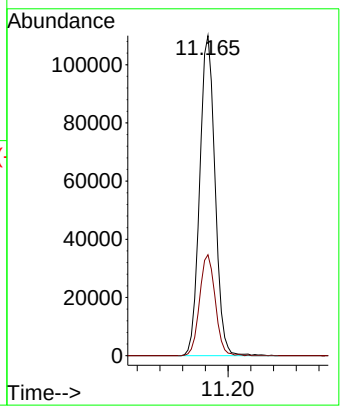


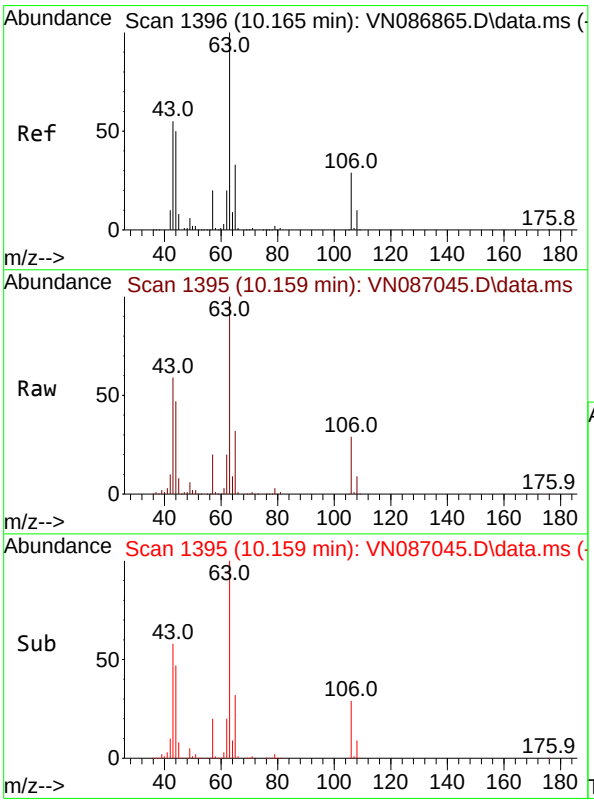
#57
1,3-Dichloropropane
Concen: 55.947 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 205677

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.3	37.9

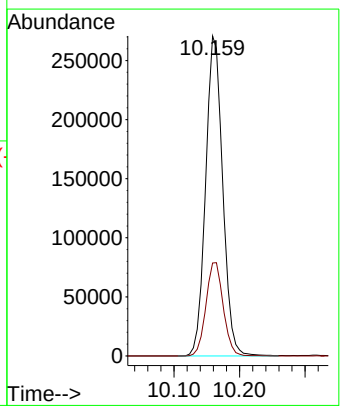


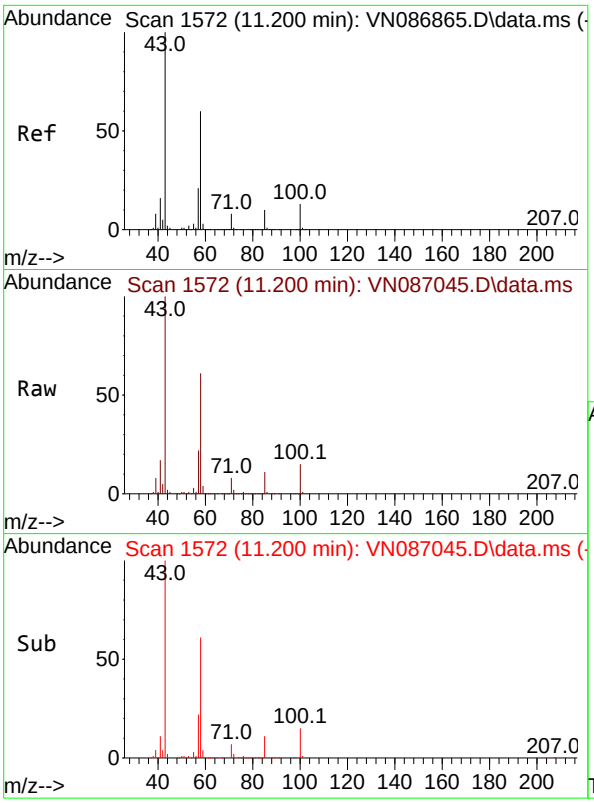


#58
2-Chloroethyl Vinyl ether
Concen: 243.555 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 63 Resp: 490344

Ion	Ratio	Lower	Upper
63	100		
106	29.6	23.0	34.6



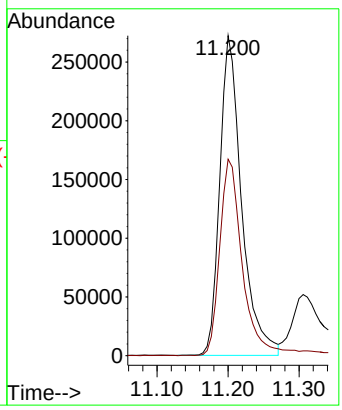


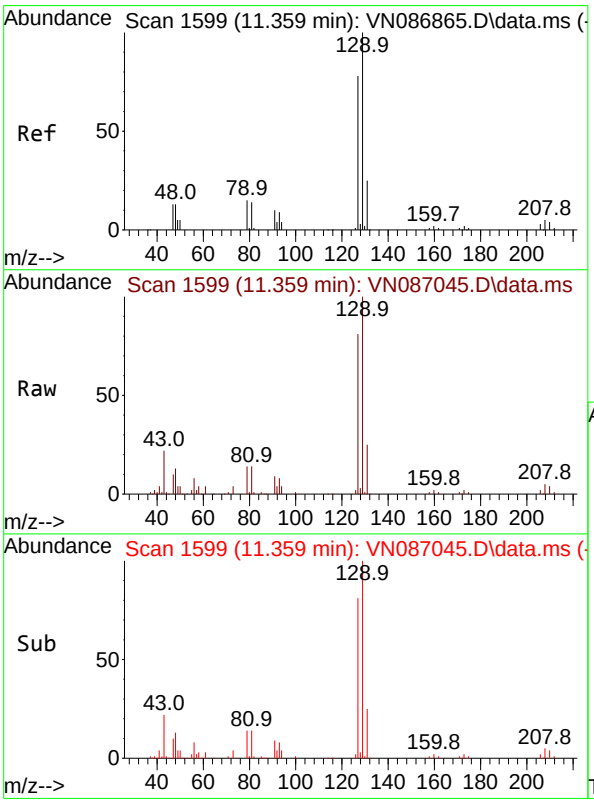
#59
2-Hexanone
Concen: 265.542 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 579829

Ion	Ratio	Lower	Upper
43	100		
58	65.5	30.4	91.3

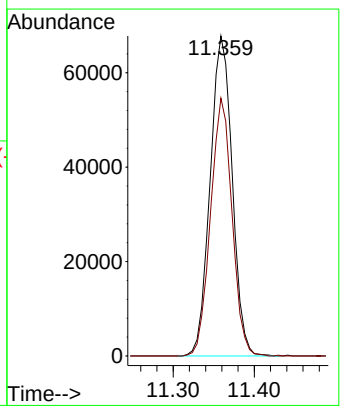


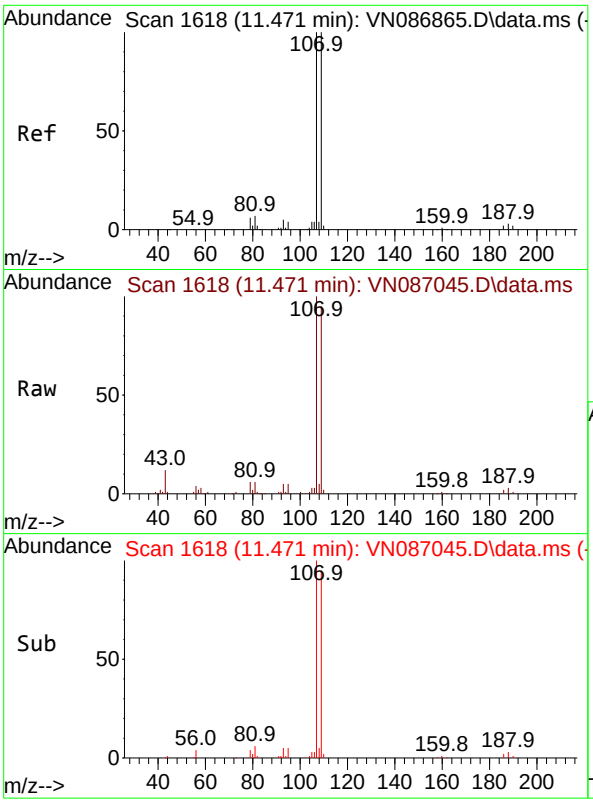


#60
Dibromochloromethane
Concen: 57.909 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:129 Resp: 127864

Ion	Ratio	Lower	Upper
129	100		
127	78.5	38.6	115.8



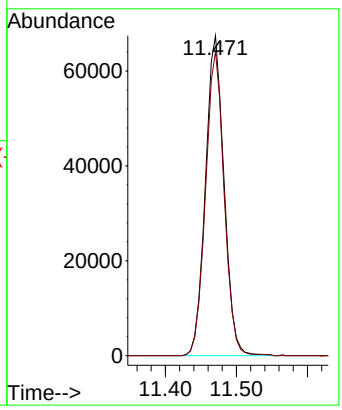


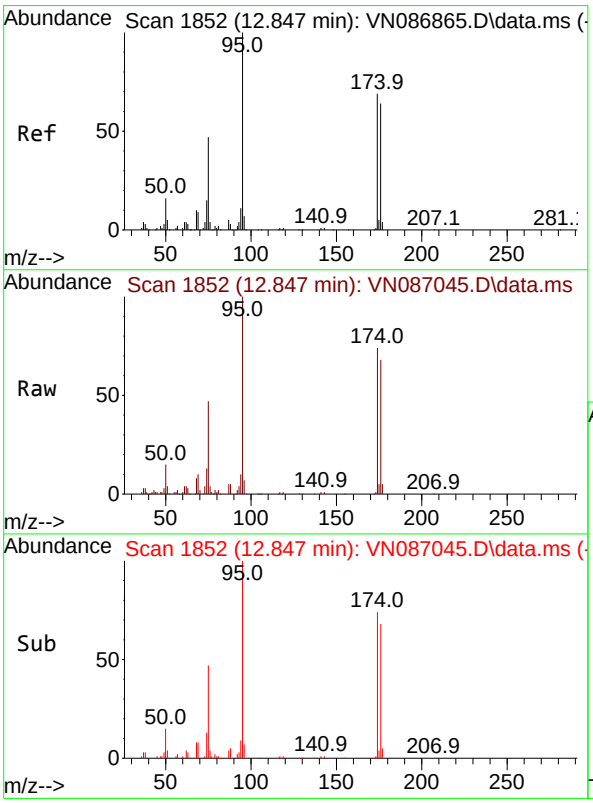
#61
1,2-Dibromoethane
Concen: 56.449 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 122619

Ion	Ratio	Lower	Upper
107	100		
109	94.8	76.3	114.5

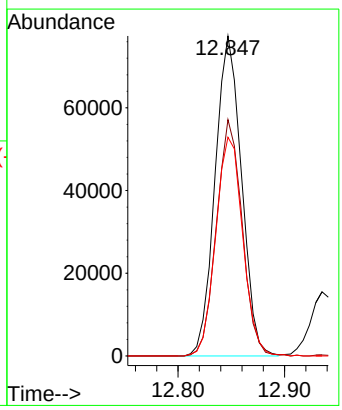


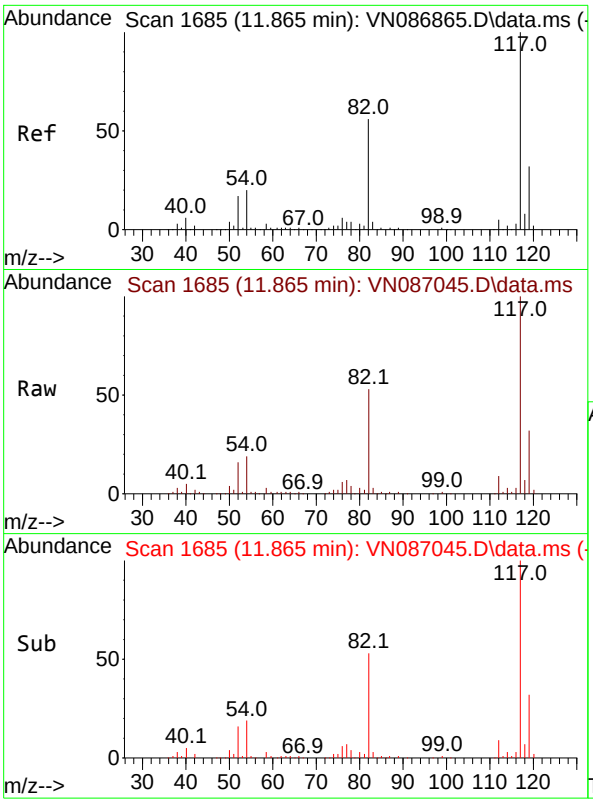


#62
4-Bromofluorobenzene
Concen: 49.036 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 95 Resp: 133394

Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	141.8
176	70.0	0.0	132.6



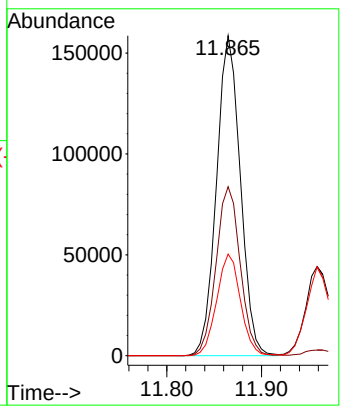


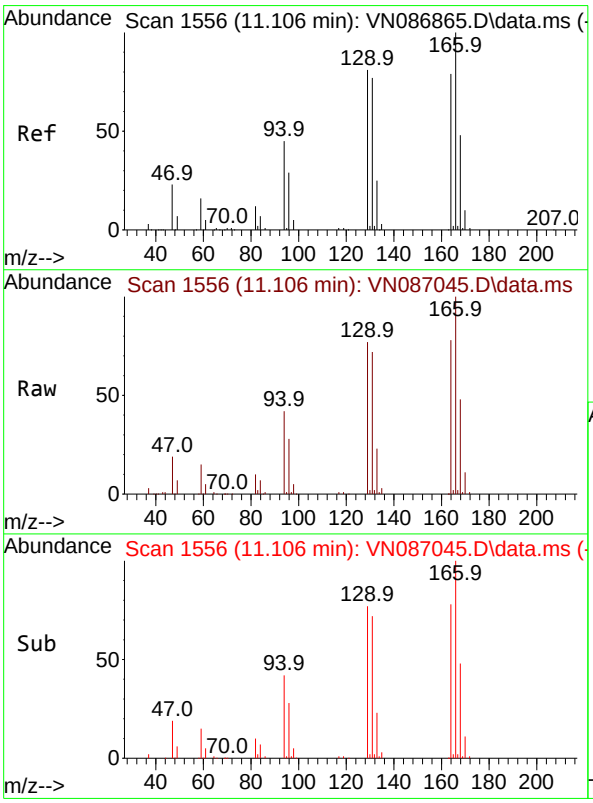
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 278021

Ion	Ratio	Lower	Upper
117	100		
82	52.8	44.6	67.0
119	31.8	25.5	38.3

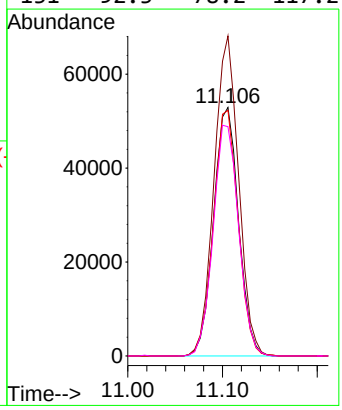


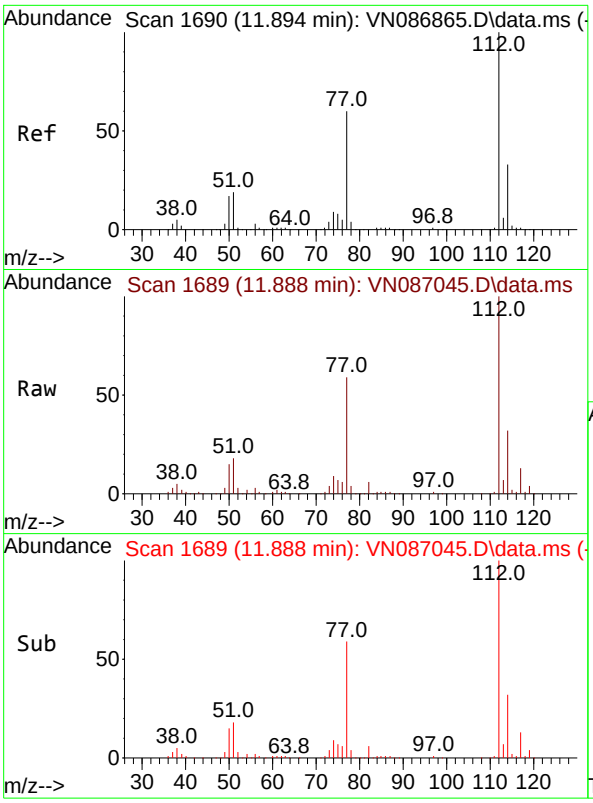


#64
Tetrachloroethene
Concen: 55.204 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:164 Resp: 97132

Ion	Ratio	Lower	Upper
164	100		
166	128.8	101.8	152.8
129	98.9	83.0	124.4
131	92.3	78.2	117.2



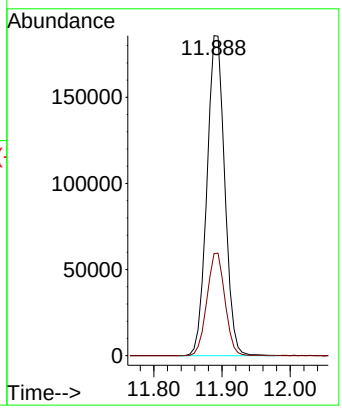


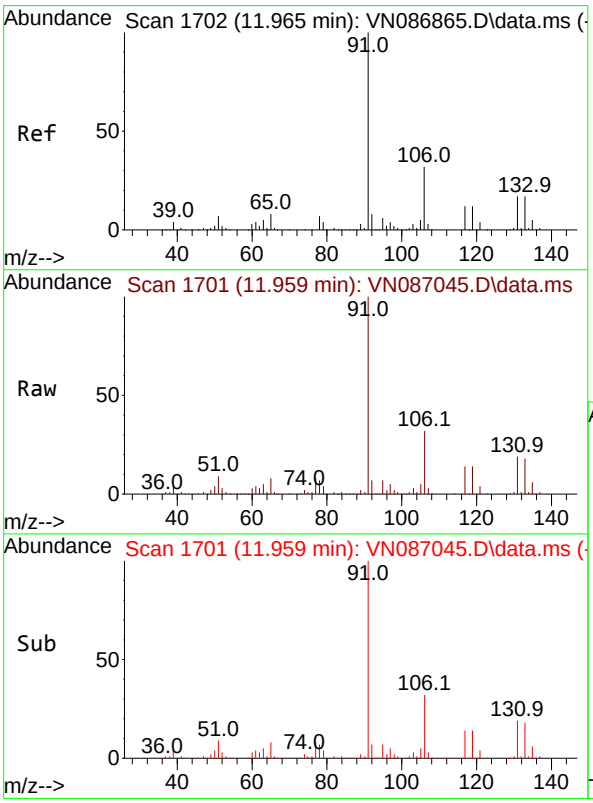
#65
Chlorobenzene
Concen: 54.968 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 337054

Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.2	39.2

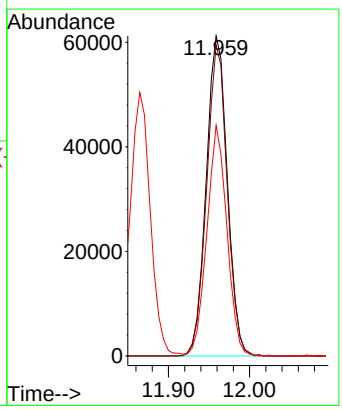


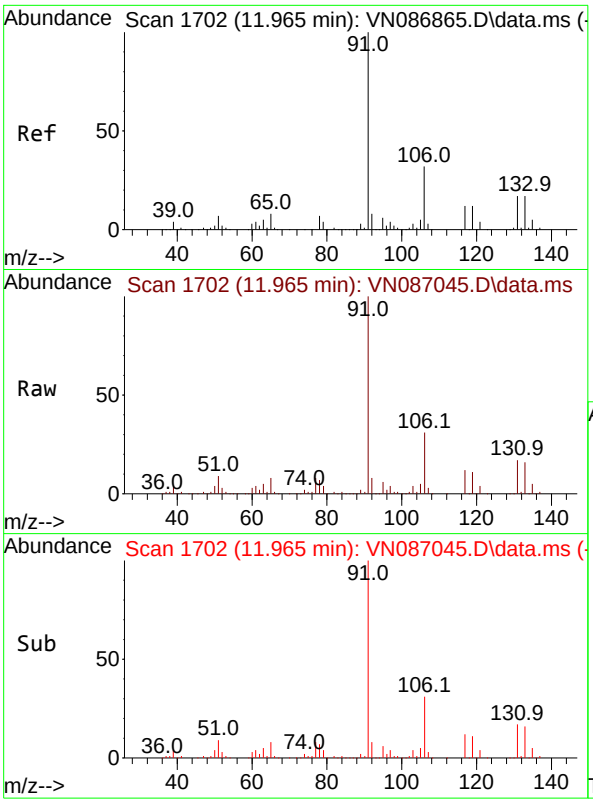


#66
1,1,1,2-Tetrachloroethane
Concen: 56.061 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:131 Resp: 110500

Ion	Ratio	Lower	Upper
131	100		
133	95.0	48.3	144.8
119	68.3	34.0	101.8



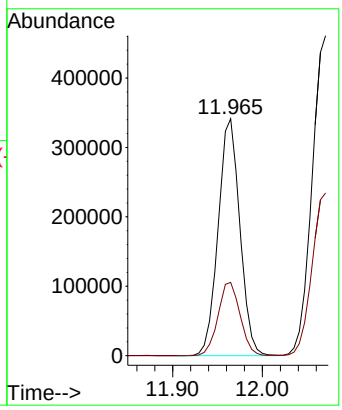


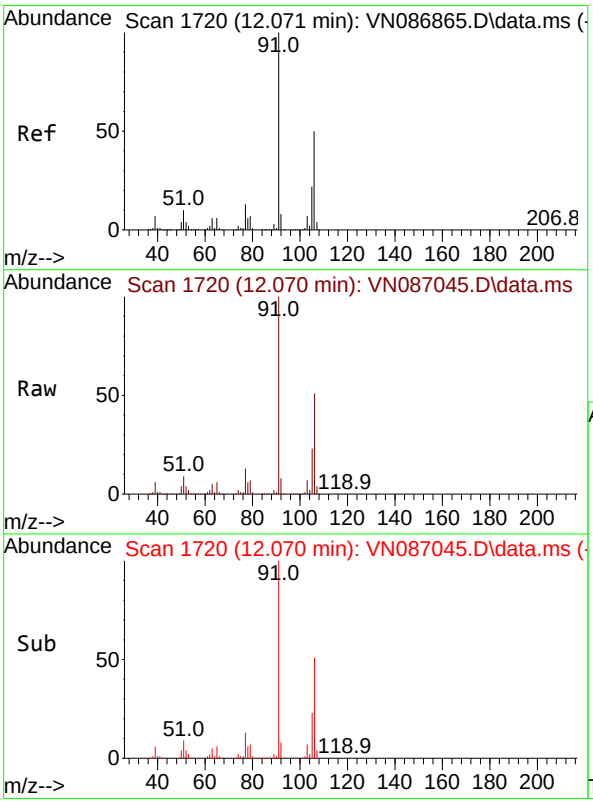
#67
Ethyl Benzene
Concen: 54.279 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 573298

Ion	Ratio	Lower	Upper
91	100		
106	31.0	25.4	38.2

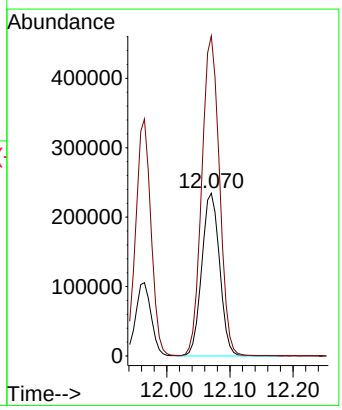


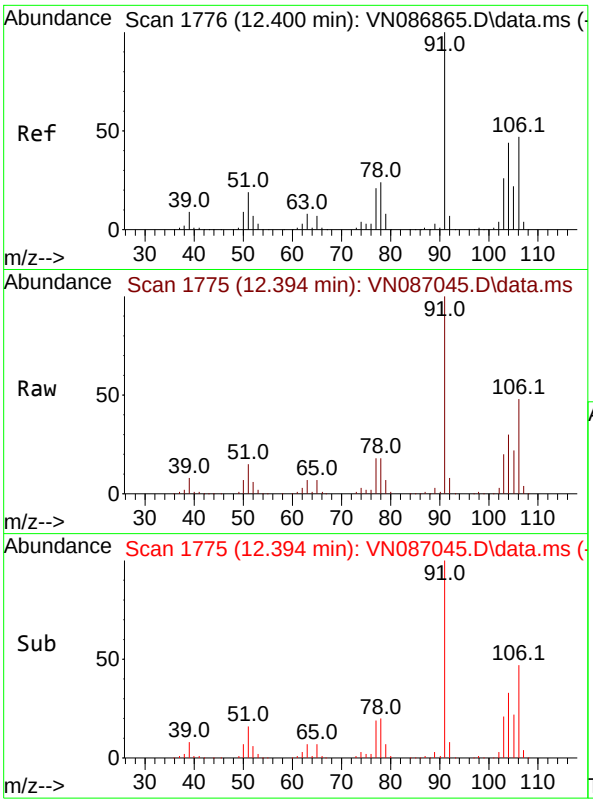


#68
m/p-Xylenes
Concen: 113.581 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:106 Resp: 459223

Ion	Ratio	Lower	Upper
106	100		
91	194.8	159.4	239.0



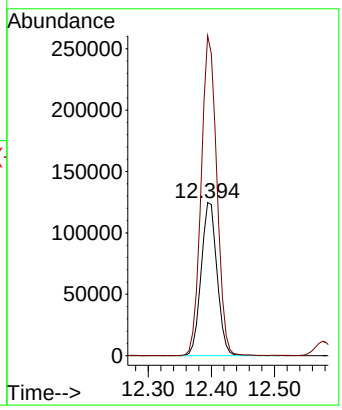


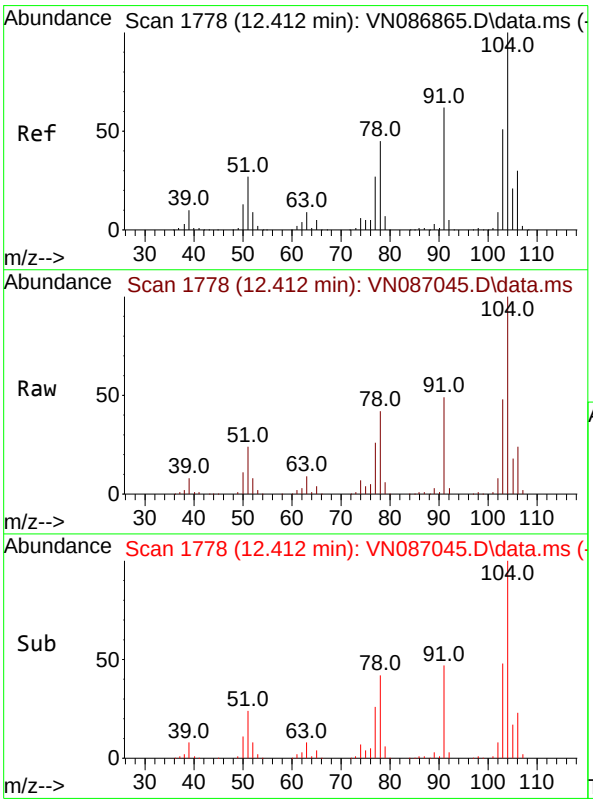
#69
o-Xylene
Concen: 56.391 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 218362

Ion	Ratio	Lower	Upper
106	100		
91	206.1	106.1	318.1

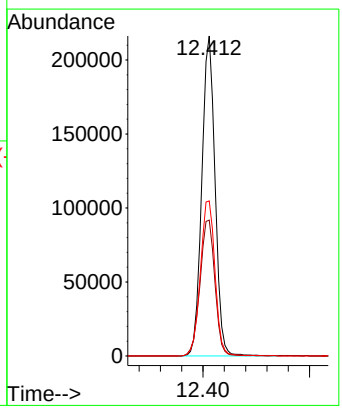


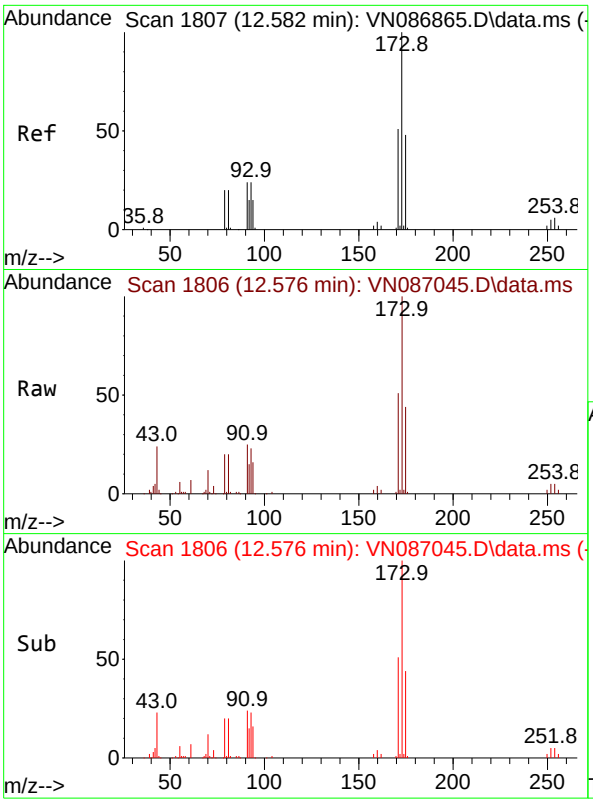


#70
Styrene
Concen: 56.515 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:104 Resp: 374480

Ion	Ratio	Lower	Upper
104	100		
78	47.3	38.5	57.7
103	53.3	43.1	64.7



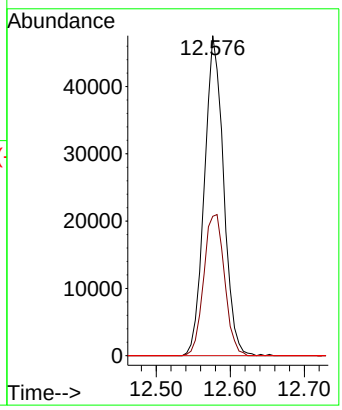


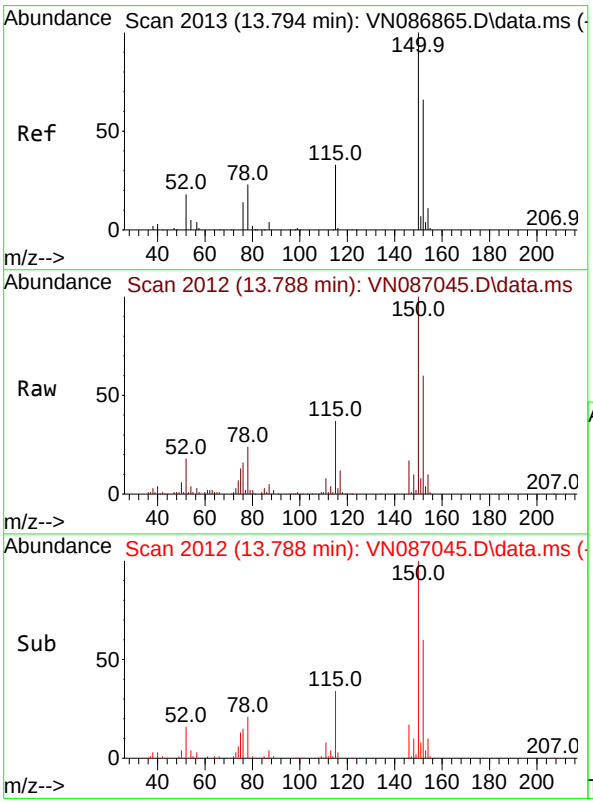
#71
Bromoform
Concen: 58.506 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 85445

Ion	Ratio	Lower	Upper
173	100		
175	47.9	24.1	72.4
254	0.0	0.0	0.0

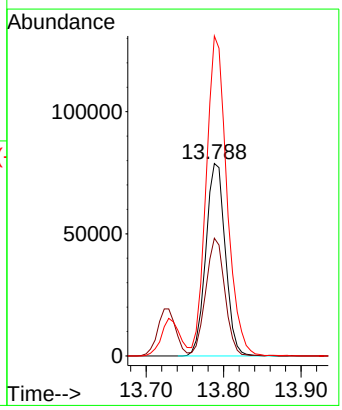


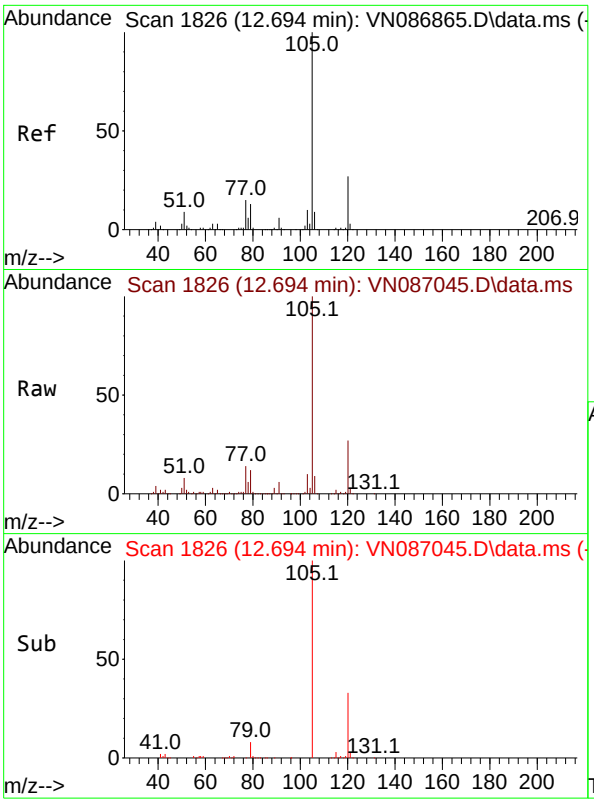


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:152 Resp: 137590

Ion	Ratio	Lower	Upper
152	100		
115	60.3	30.1	90.5
150	175.7	0.0	345.0



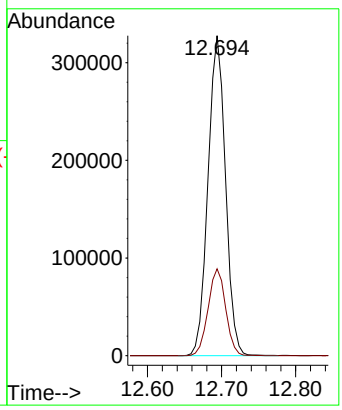


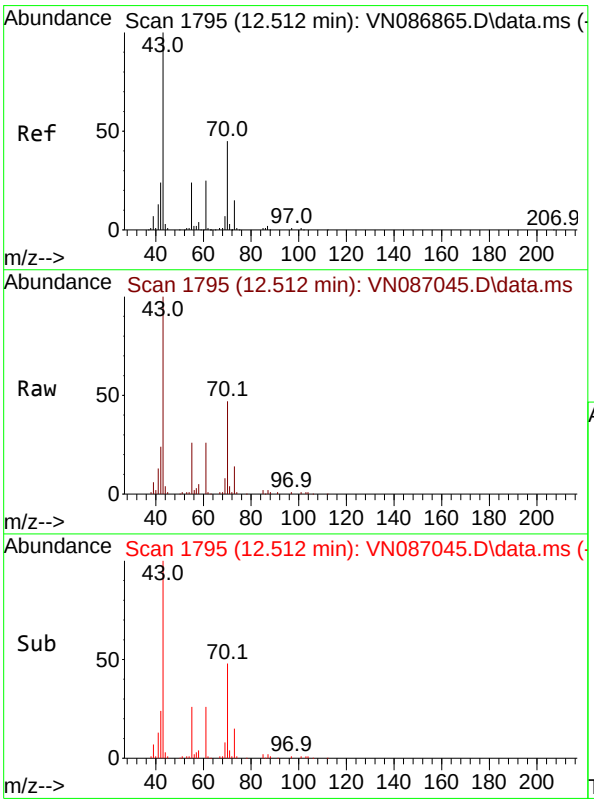
#73
Isopropylbenzene
Concen: 53.577 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 537032

Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.5	40.4

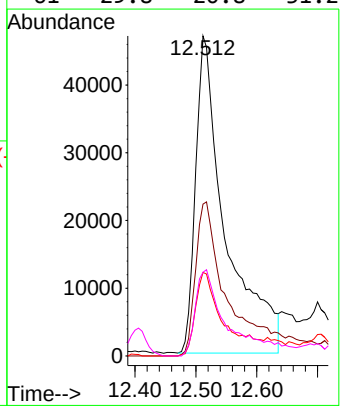


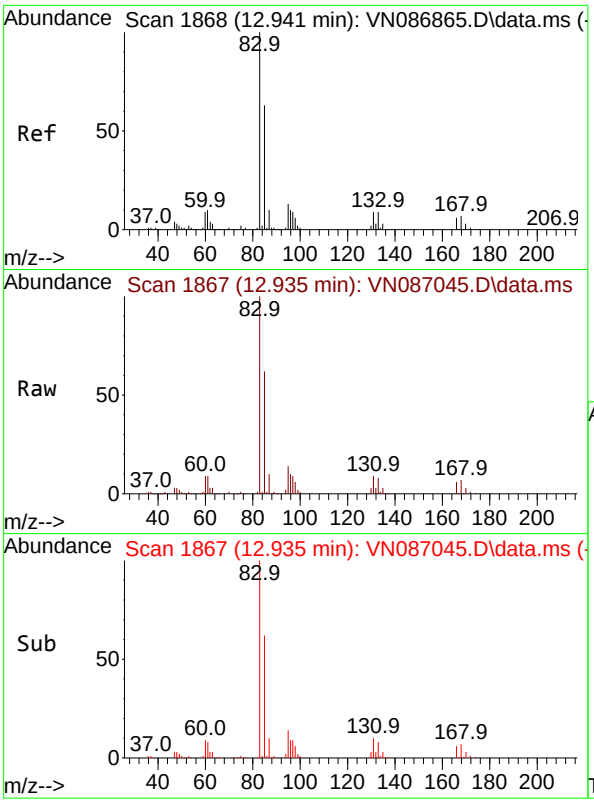


#74
N-amyl acetate
Concen: 45.690 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 43 Resp: 160037

Ion	Ratio	Lower	Upper
43	100		
70	56.8	37.6	56.4#
55	25.5	19.0	28.6
61	29.8	20.8	31.2



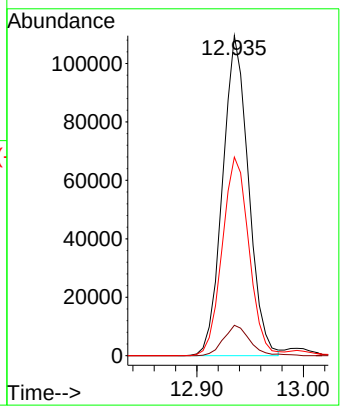


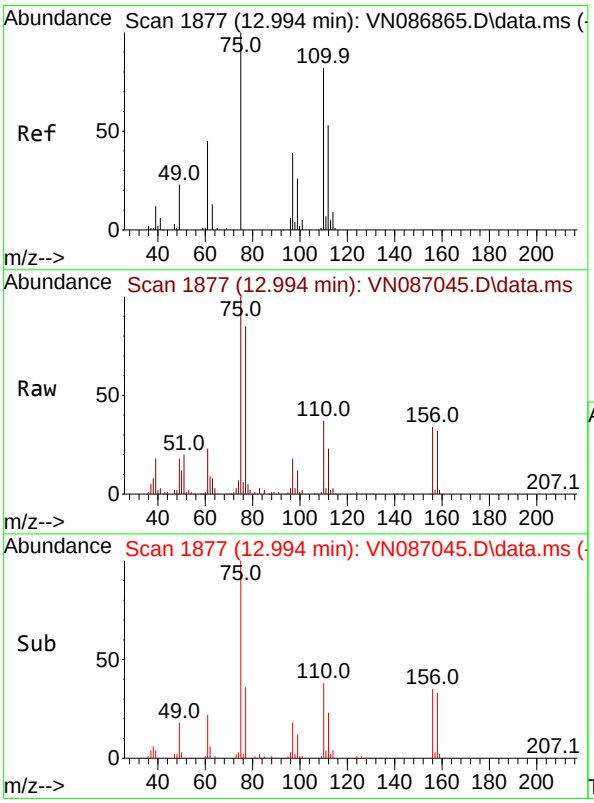
#75
1,1,2,2-Tetrachloroethane
Concen: 54.378 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 184655

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.9	14.7
85	64.3	32.0	96.0

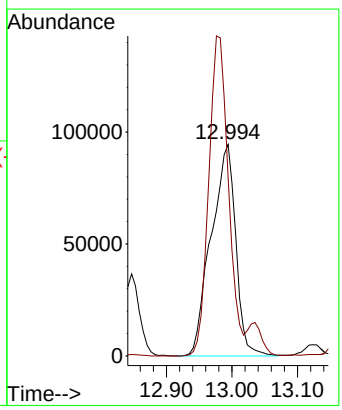


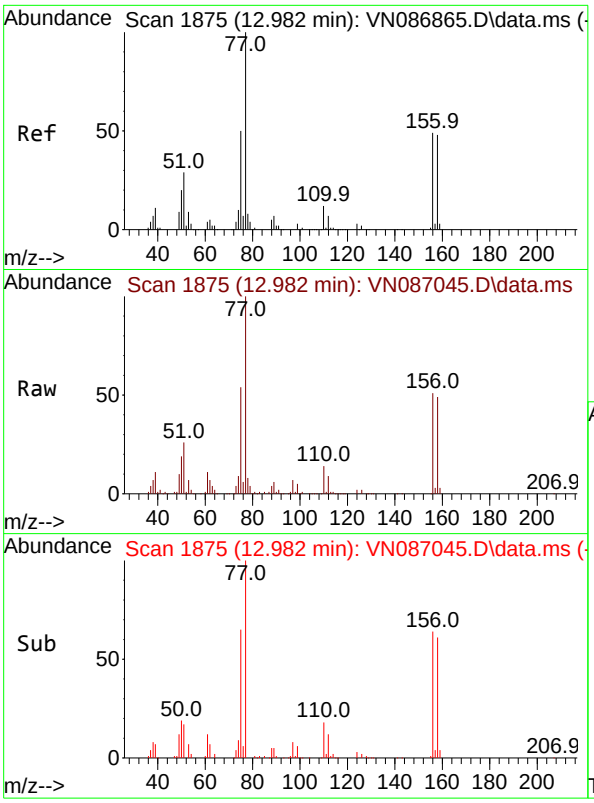


#76
1,2,3-Trichloropropane
Concen: 75.167 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 75 Resp: 245837

Ion	Ratio	Lower	Upper
75	100		
77	121.0	79.3	237.9



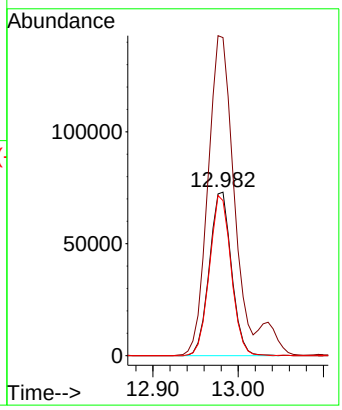


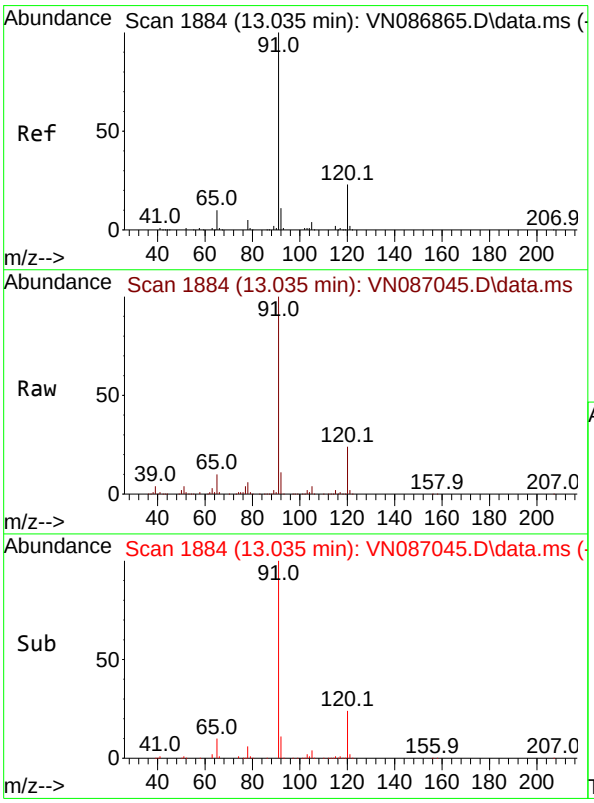
#77
Bromobenzene
Concen: 57.199 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 131485

Ion	Ratio	Lower	Upper
156	100		
77	226.3	117.7	353.1
158	96.0	48.1	144.4

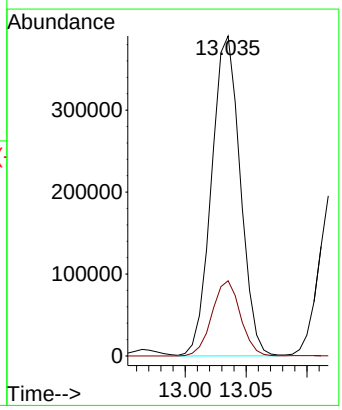


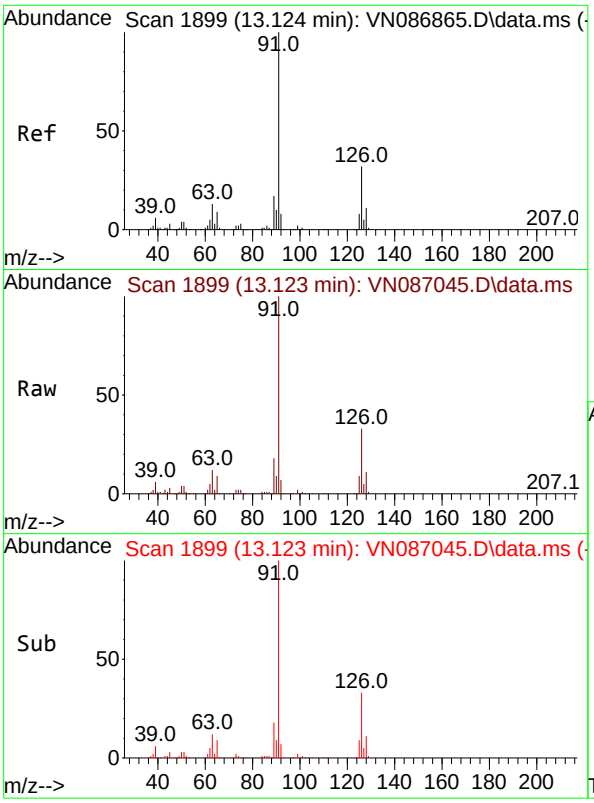


#78
n-propylbenzene
Concen: 52.692 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 91 Resp: 641851

Ion	Ratio	Lower	Upper
91	100		
120	23.2	11.4	34.2



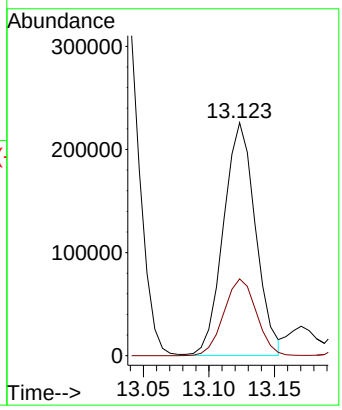


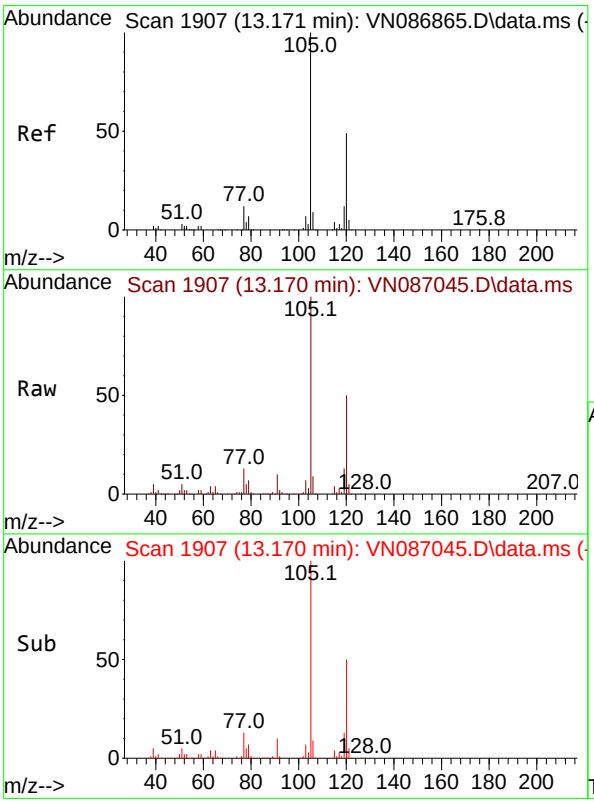
#79
2-Chlorotoluene
Concen: 52.729 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 385196

Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.2	48.5

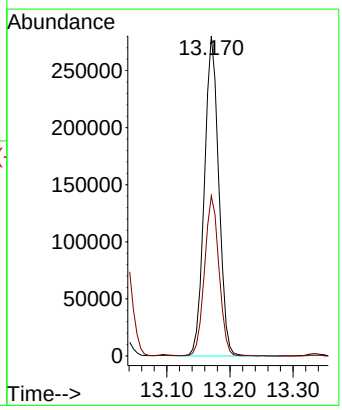


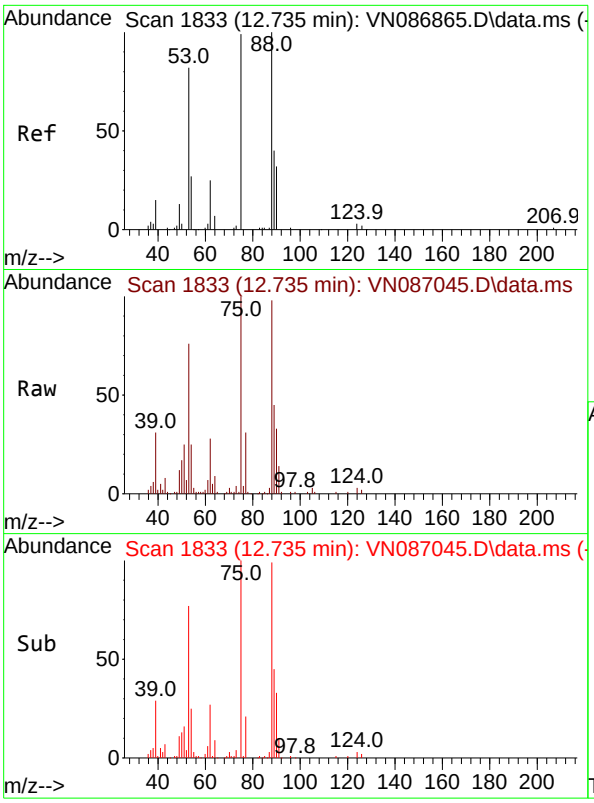


#80
1,3,5-Trimethylbenzene
Concen: 53.566 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:105 Resp: 443295

Ion	Ratio	Lower	Upper
105	100		
120	50.3	24.9	74.6



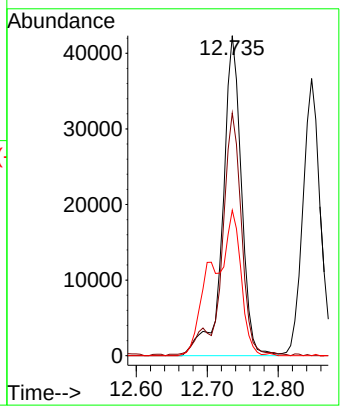


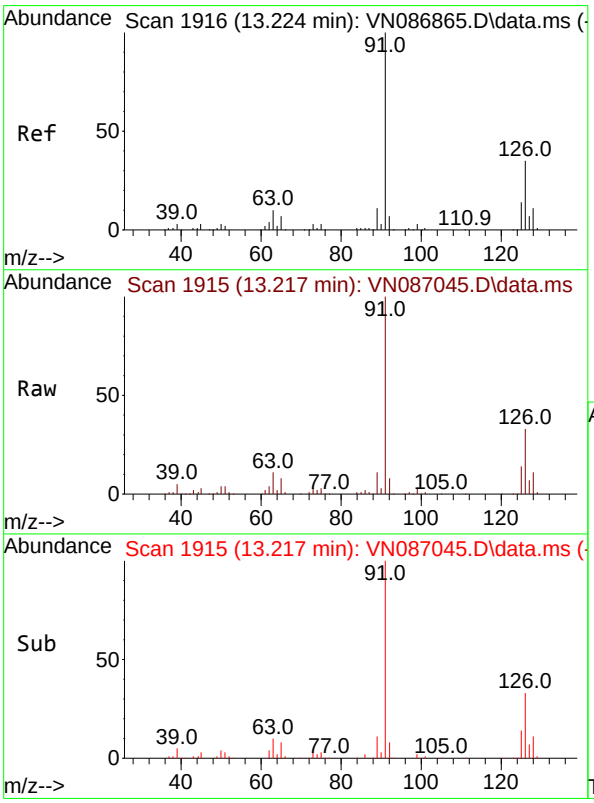
#81
trans-1,4-Dichloro-2-butene
Concen: 54.141 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 76922

Ion	Ratio	Lower	Upper
75	100		
53	72.5	66.6	99.8
89	38.7	36.7	55.1

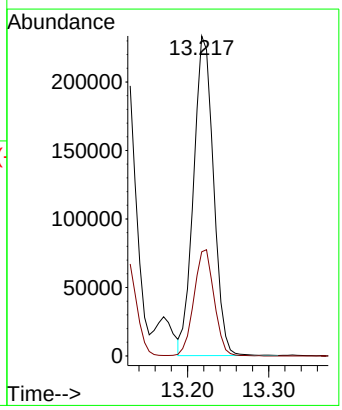


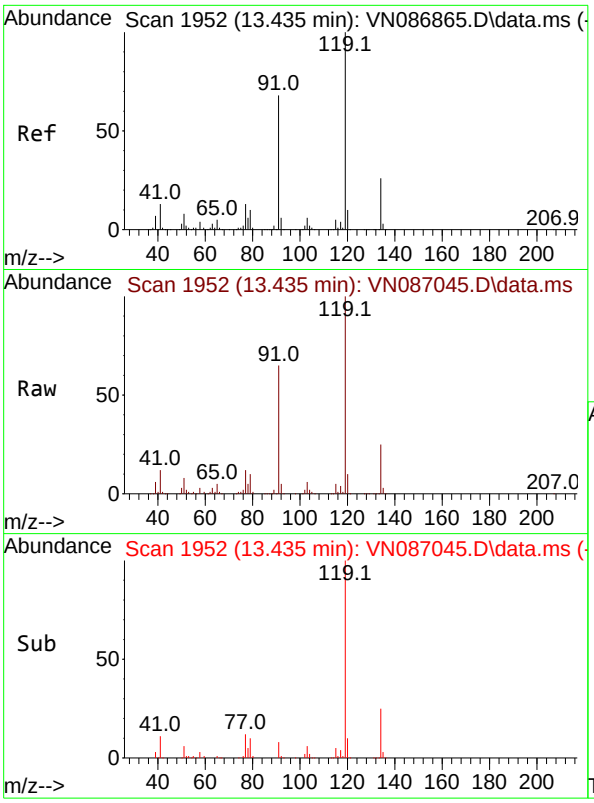


#82
4-Chlorotoluene
Concen: 53.869 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 91 Resp: 398180

Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.7	50.1



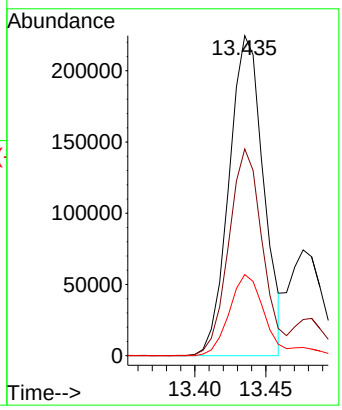


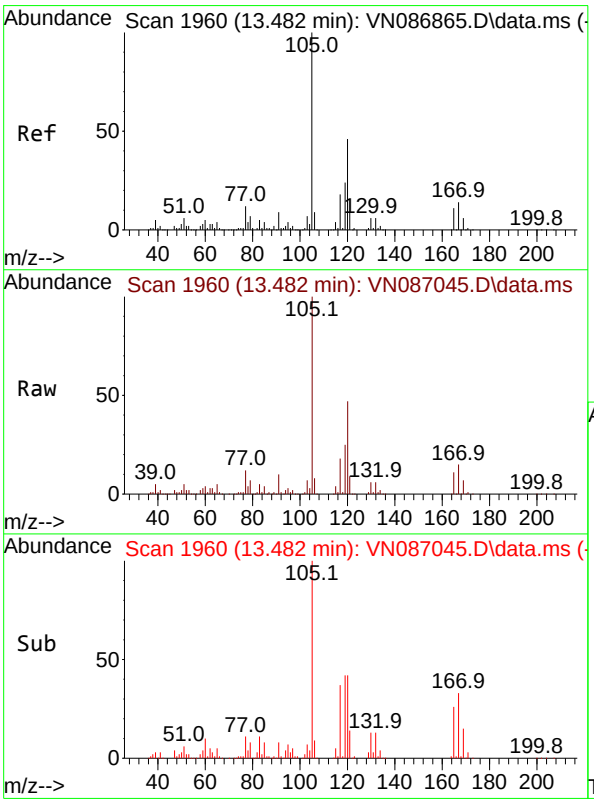
#83
tert-Butylbenzene
Concen: 49.969 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 378527

Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.1	96.5
134	27.2	13.4	40.1

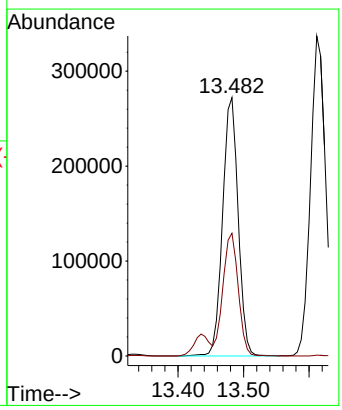


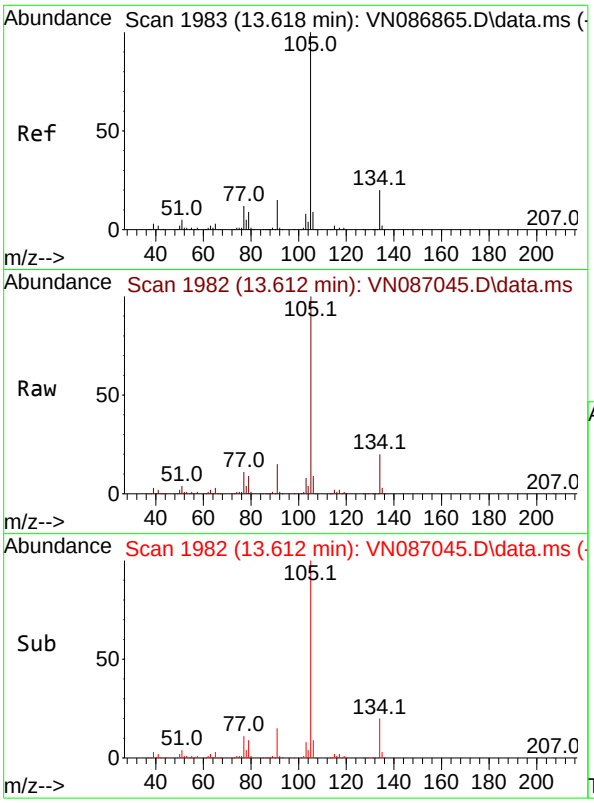


#84
1,2,4-Trimethylbenzene
Concen: 53.818 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:105 Resp: 446609

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.2	69.6



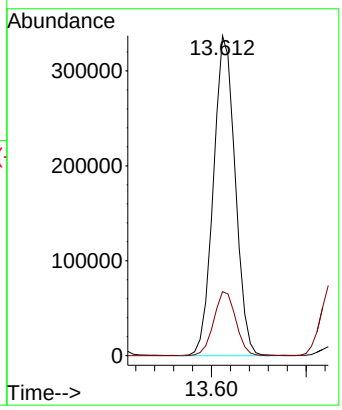


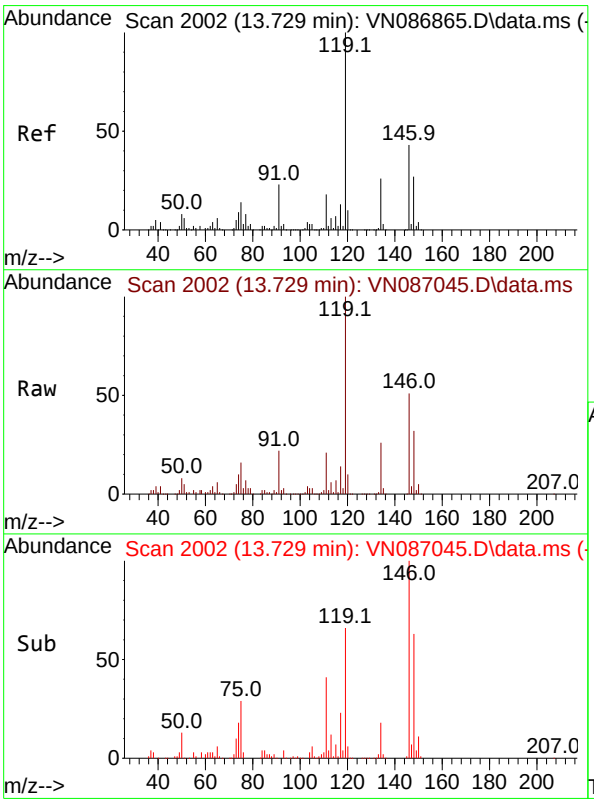
#85
sec-Butylbenzene
Concen: 49.041 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 539504

Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.0	30.0

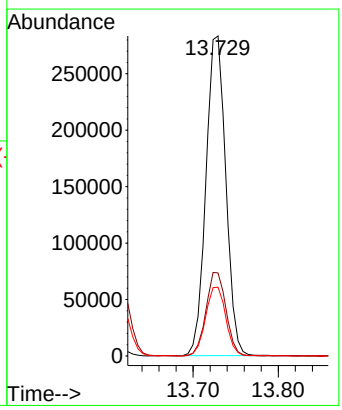


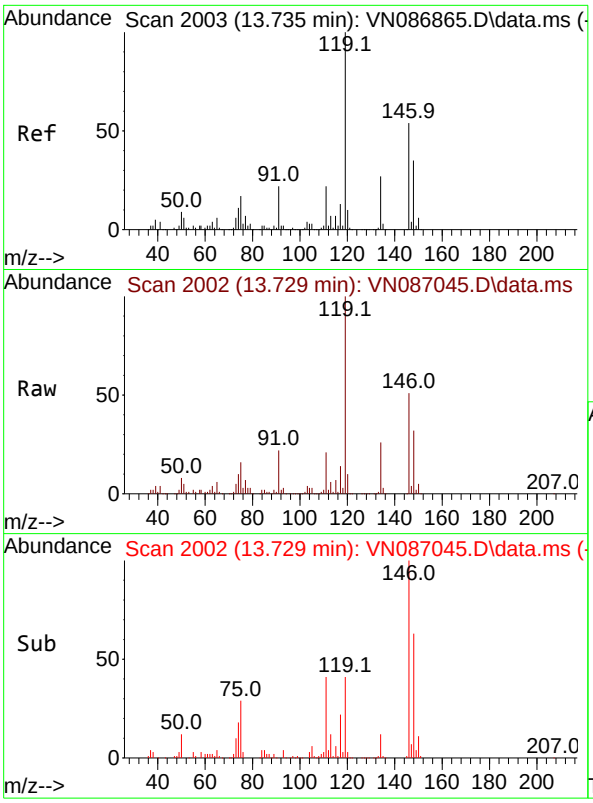


#86
p-Isopropyltoluene
Concen: 50.373 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:119 Resp: 458085

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.5	40.4
91	22.1	11.5	34.4



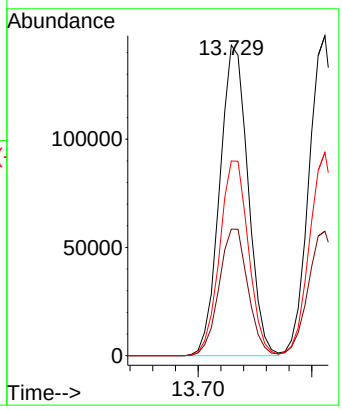


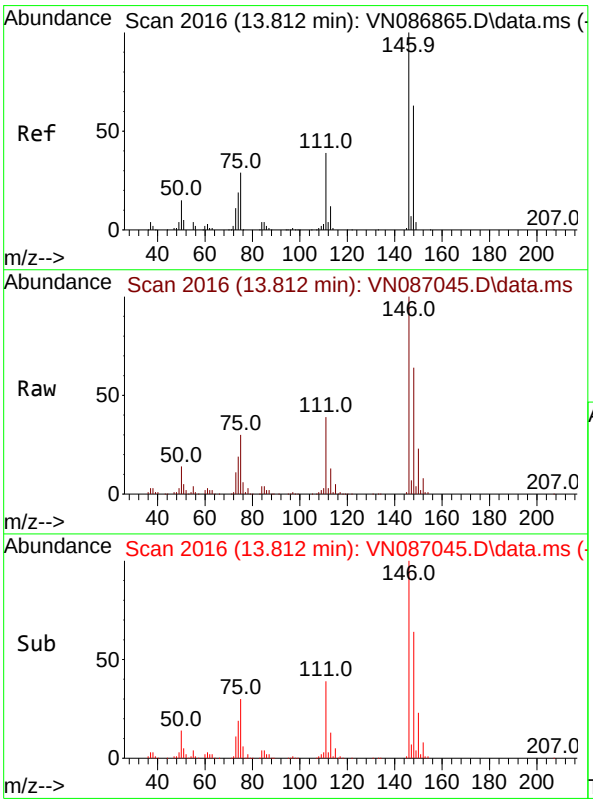
#87
1,3-Dichlorobenzene
Concen: 54.889 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 248250

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.9	62.8
148	63.8	32.0	96.2

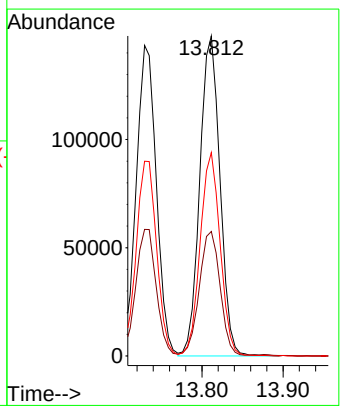


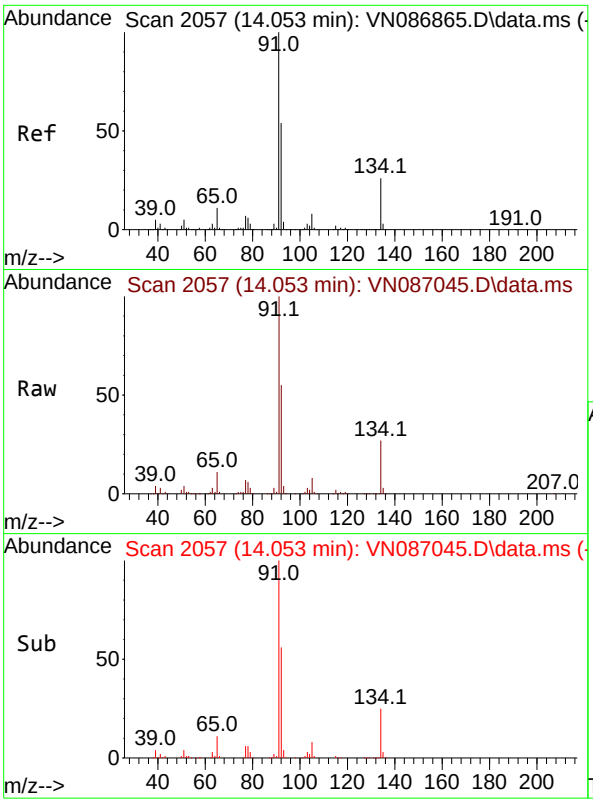


#88
1,4-Dichlorobenzene
Concen: 55.283 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:146 Resp: 254911

Ion	Ratio	Lower	Upper
146	100		
111	39.6	19.9	59.7
148	63.0	31.8	95.4



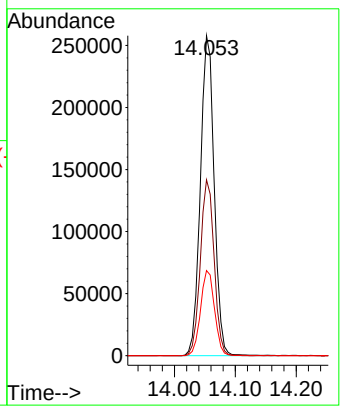


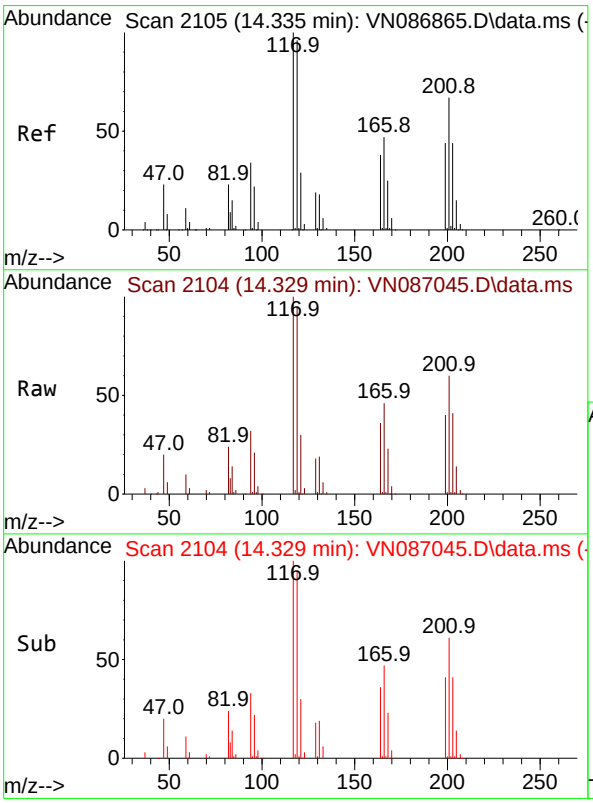
#89
n-Butylbenzene
Concen: 46.157 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 406564

Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.5	82.4
134	26.9	13.0	39.0

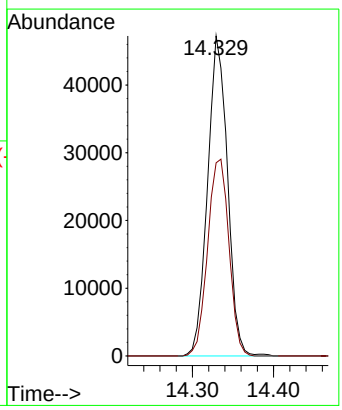


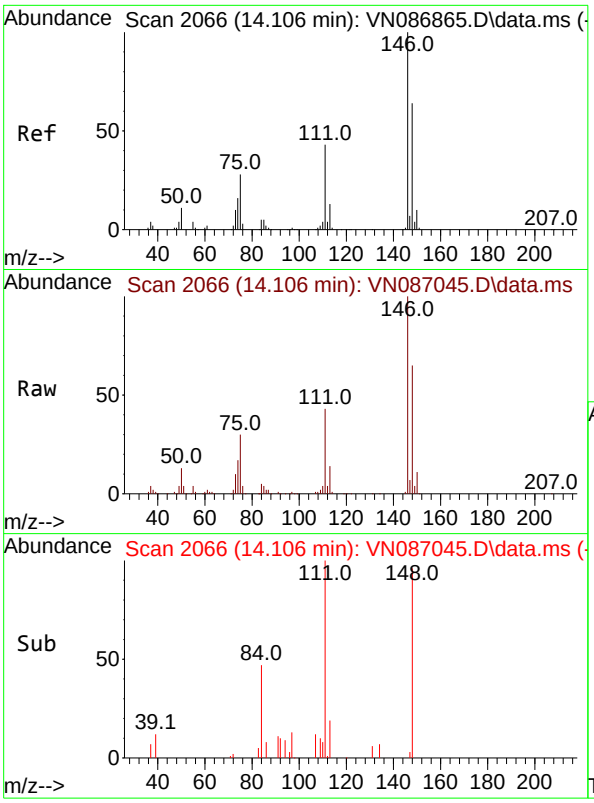


#90
Hexachloroethane
Concen: 52.187 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:117 Resp: 80443

Ion	Ratio	Lower	Upper
117	100		
201	65.9	33.2	99.6



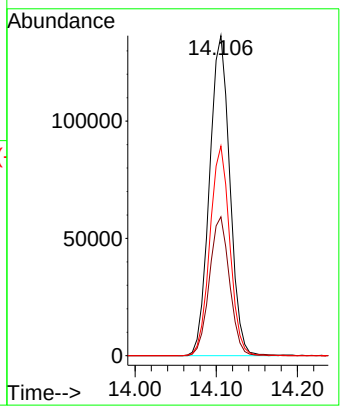


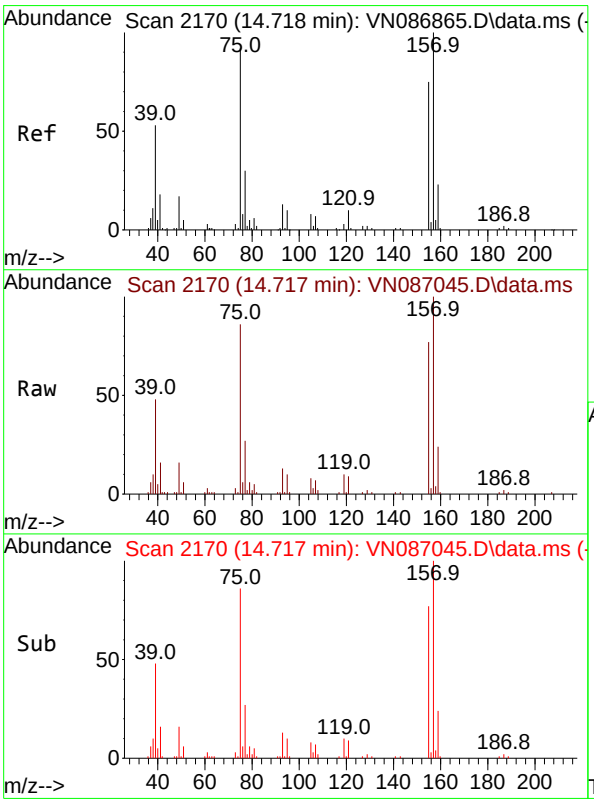
#91
1,2-Dichlorobenzene
Concen: 54.682 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 237605

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.6	64.6
148	64.1	31.7	95.1

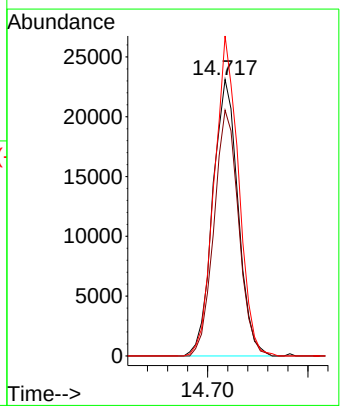


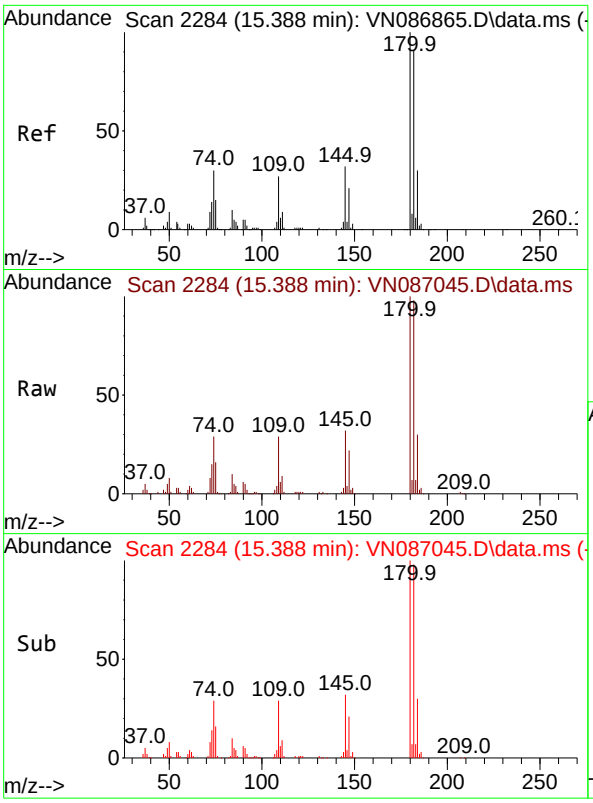


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.806 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion: 75 Resp: 40448

Ion	Ratio	Lower	Upper
75	100		
155	86.4	41.1	123.4
157	111.0	52.7	158.1



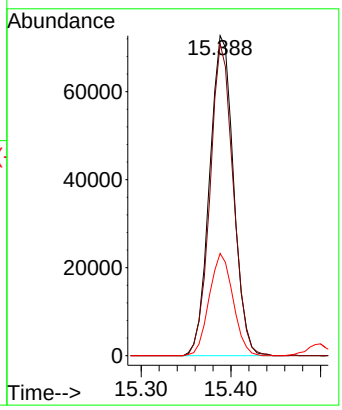


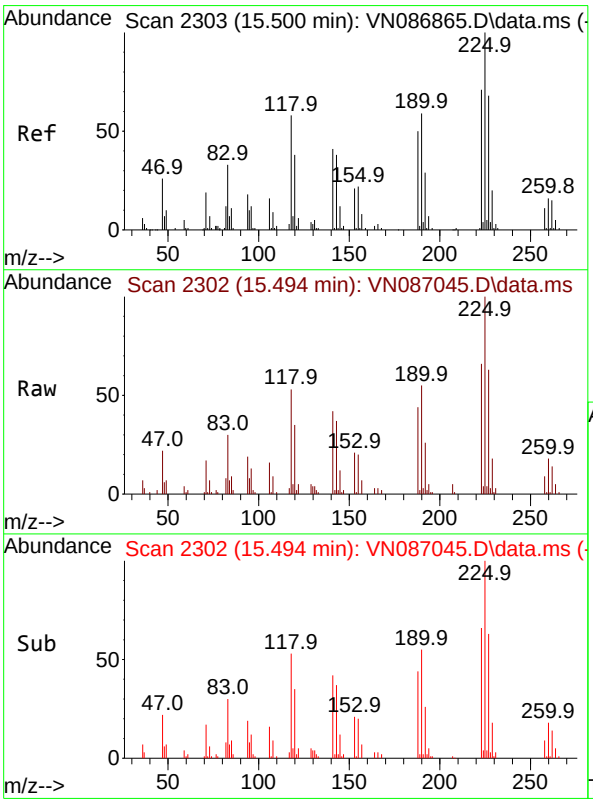
#93
1,2,4-Trichlorobenzene
Concen: 48.485 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 134529

Ion	Ratio	Lower	Upper
180	100		
182	94.6	46.9	140.7
145	31.7	16.0	47.9

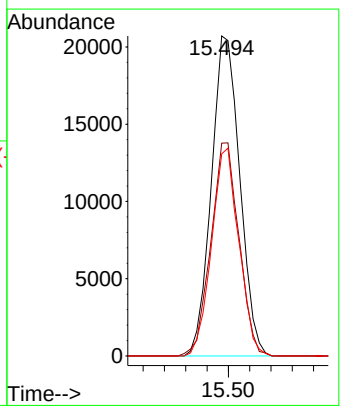


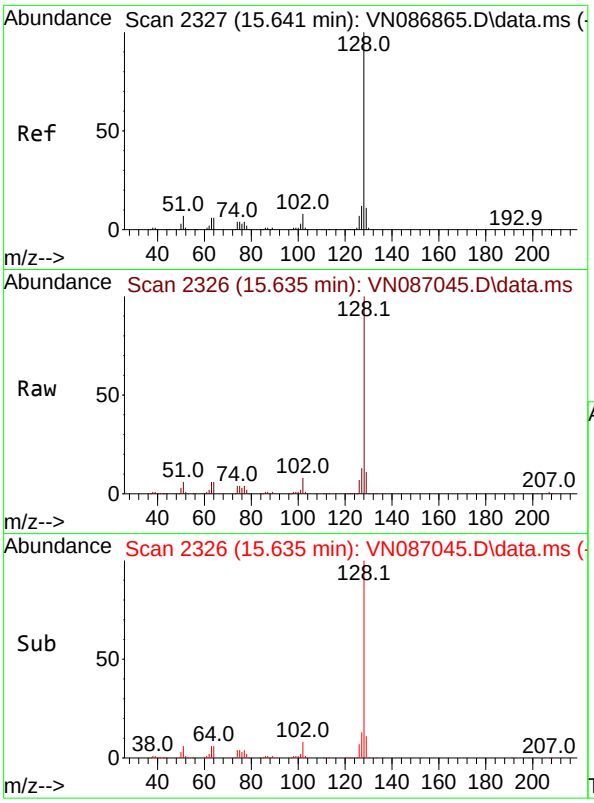


#94
Hexachlorobutadiene
Concen: 37.091 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:225 Resp: 38343

Ion	Ratio	Lower	Upper
225	100		
223	65.8	33.5	100.4
227	62.3	31.1	93.5



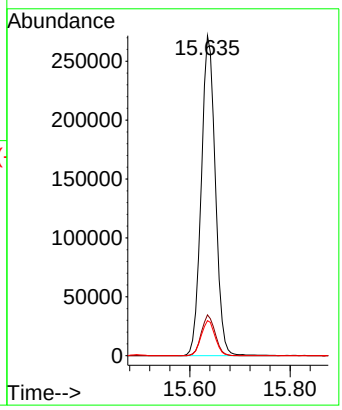


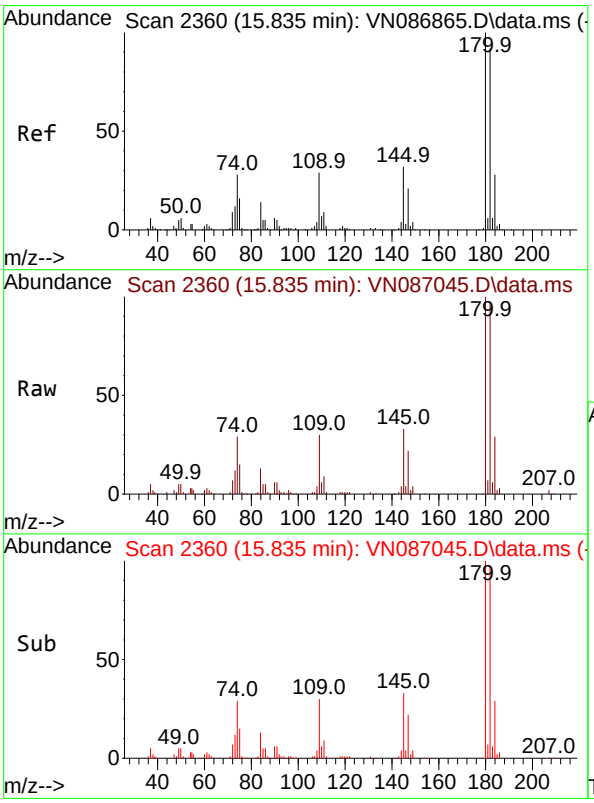
#95
Naphthalene
Concen: 51.304 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 529854

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	10.8	8.8	13.2

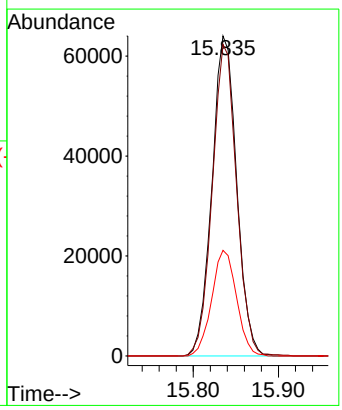




#96
1,2,3-Trichlorobenzene
Concen: 46.739 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087045.D
Acq: 17 Jun 2025 09:25

Tgt Ion:180 Resp: 128848

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.0	141.0
145	33.2	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087051.D
Acq On : 17 Jun 2025 11:59
Operator : JC\MD
Sample : VN0617WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Quant Time: Jun 18 01:44:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	157438	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	281588	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	248700	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	122529	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	102637	48.691	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.380%			
35) Dibromofluoromethane	8.177	113	87035	52.156	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.320%			
50) Toluene-d8	10.565	98	330063	49.963	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.920%			
62) 4-Bromofluorobenzene	12.847	95	127024	51.754	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	31857	20.294	ug/l	99
3) Chloromethane	2.401	50	35820	17.671	ug/l	96
4) Vinyl Chloride	2.554	62	44895	21.470	ug/l	99
5) Bromomethane	3.001	94	23461	20.050	ug/l	89
6) Chloroethane	3.159	64	29185	21.608	ug/l	99
7) Trichlorofluoromethane	3.530	101	57670	21.109	ug/l	96
8) Diethyl Ether	3.989	74	25284	21.241	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.400	101	35697	20.797	ug/l	98
10) Methyl Iodide	4.612	142	21949	9.865	ug/l	97
11) Tert butyl alcohol	5.536	59	51022	89.205	ug/l	98
12) 1,1-Dichloroethene	4.371	96	38036	21.706	ug/l	90
13) Acrolein	4.200	56	28602	157.981	ug/l	100
14) Allyl chloride	5.053	41	53962	18.568	ug/l	96
15) Acrylonitrile	5.736	53	127531	95.394	ug/l	99
16) Acetone	4.448	43	99313	88.843	ug/l	100
17) Carbon Disulfide	4.742	76	107330	22.143	ug/l	97
18) Methyl Acetate	5.047	43	52657	16.164	ug/l	95
19) Methyl tert-butyl Ether	5.812	73	125530	19.785	ug/l	97
20) Methylene Chloride	5.300	84	41757	19.953	ug/l	95
21) trans-1,2-Dichloroethene	5.812	96	40883	20.970	ug/l	93
22) Diisopropyl ether	6.683	45	117172	19.127	ug/l	98
23) Vinyl Acetate	6.618	43	515374	99.575	ug/l	98
24) 1,1-Dichloroethane	6.589	63	72122	20.458	ug/l	98
25) 2-Butanone	7.494	43	160313	88.228	ug/l	99
26) 2,2-Dichloropropane	7.500	77	61973	22.599	ug/l	98
27) cis-1,2-Dichloroethene	7.500	96	48236	20.688	ug/l	98
28) Bromochloromethane	7.824	49	30593	17.650	ug/l	89
29) Tetrahydrofuran	7.847	42	108501	91.665	ug/l	94
30) Chloroform	7.971	83	70607	20.055	ug/l	99
31) Cyclohexane	8.265	56	63824	18.668	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	60917	20.344	ug/l	93
36) 1,1-Dichloropropene	8.383	75	52690	21.189	ug/l	98
37) Ethyl Acetate	7.571	43	64952	20.519	ug/l	99
38) Carbon Tetrachloride	8.371	117	50957	20.873	ug/l	95
39) Methylcyclohexane	9.600	83	58485	17.167	ug/l	97
40) Benzene	8.612	78	169691	20.869	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087051.D
Acq On : 17 Jun 2025 11:59
Operator : JC\MD
Sample : VN0617WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Quant Time: Jun 18 01:44:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	33778	19.000	ug/l		95
42) 1,2-Dichloroethane	8.677	62	51707	20.965	ug/l		100
43) Isopropyl Acetate	8.694	43	94051	18.512	ug/l		96
44) Trichloroethene	9.353	130	41200	21.368	ug/l		98
45) 1,2-Dichloropropane	9.624	63	41010	20.731	ug/l		99
46) Dibromomethane	9.712	93	28519	21.704	ug/l		95
47) Bromodichloromethane	9.888	83	56790	21.006	ug/l		98
48) Methyl methacrylate	9.682	41	44182	18.894	ug/l		97
49) 1,4-Dioxane	9.706	88	16851	396.113	ug/l	#	96
51) 4-Methyl-2-Pentanone	10.447	43	284888	93.145	ug/l		97
52) Toluene	10.629	92	106583	21.448	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	63945	21.153	ug/l		95
54) cis-1,3-Dichloropropene	10.312	75	67853	20.978	ug/l		99
55) 1,1,2-Trichloroethane	11.018	97	40974	21.429	ug/l		97
56) Ethyl methacrylate	10.882	69	61756	20.278	ug/l		93
57) 1,3-Dichloropropane	11.165	76	70252	21.180	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	167427	92.171	ug/l		98
59) 2-Hexanone	11.206	43	168311	85.432	ug/l		93
60) Dibromochloromethane	11.359	129	42009	21.087	ug/l		99
61) 1,2-Dibromoethane	11.471	107	41422	21.135	ug/l		97
64) Tetrachloroethene	11.106	164	32201	20.459	ug/l		95
65) Chlorobenzene	11.888	112	117016	21.333	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.959	131	38683	21.939	ug/l		98
67) Ethyl Benzene	11.965	91	191185	20.235	ug/l		99
68) m/p-Xylenes	12.071	106	153323	42.393	ug/l		98
69) o-Xylene	12.400	106	74694	21.564	ug/l		97
70) Styrene	12.412	104	129584	21.862	ug/l		98
71) Bromoform	12.576	173	28209	21.592	ug/l	#	95
73) Isopropylbenzene	12.694	105	183037	20.505	ug/l		99
74) N-amyl acetate	12.547	43	26127	8.376	ug/l	#	90
75) 1,1,2,2-Tetrachloroethane	12.935	83	64970	21.484	ug/l		99
76) 1,2,3-Trichloropropane	12.988	75	85752	29.442	ug/l		70
77) Bromobenzene	12.982	156	45556	22.254	ug/l		95
78) n-propylbenzene	13.035	91	211448	19.492	ug/l		96
79) 2-Chlorotoluene	13.123	91	130050	19.991	ug/l		96
80) 1,3,5-Trimethylbenzene	13.171	105	146312	19.853	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	22976	18.159	ug/l	#	91
82) 4-Chlorotoluene	13.218	91	130303	19.795	ug/l		96
83) tert-Butylbenzene	13.435	119	124546	18.462	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	150274	20.334	ug/l		100
85) sec-Butylbenzene	13.612	105	175237	17.887	ug/l		97
86) p-Isopropyltoluene	13.729	119	152581	18.841	ug/l		99
87) 1,3-Dichlorobenzene	13.735	146	85450	21.216	ug/l		100
88) 1,4-Dichlorobenzene	13.812	146	85795	20.893	ug/l		98
89) n-Butylbenzene	14.053	91	126981	16.188	ug/l		95
90) Hexachloroethane	14.335	117	24929	18.160	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	83067	21.467	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	14110	19.510	ug/l		93
93) 1,2,4-Trichlorobenzene	15.388	180	44436	17.983	ug/l		95
94) Hexachlorobutadiene	15.500	225	12332	13.396	ug/l		96
95) Naphthalene	15.635	128	237029	25.772	ug/l	#	95
96) 1,2,3-Trichlorobenzene	15.835	180	42260	17.214	ug/l		96

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087051.D
Acq On : 17 Jun 2025 11:59
Operator : JC\MD
Sample : VN0617WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Quant Time: Jun 18 01:44:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

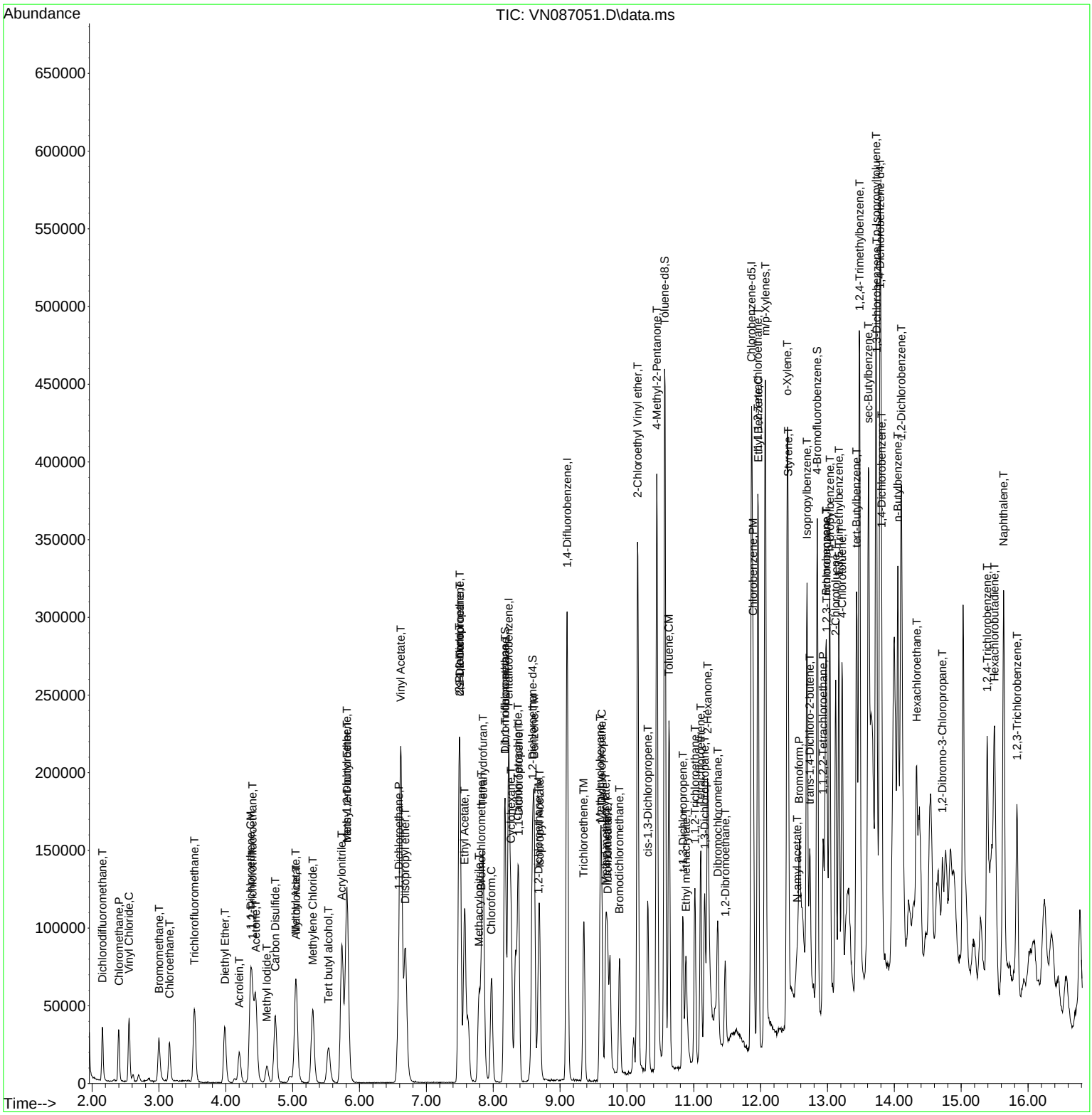
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

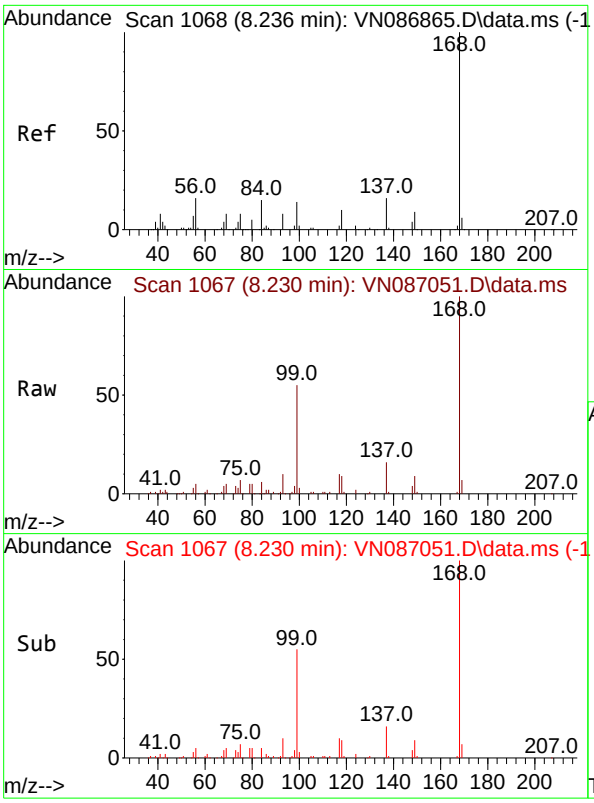
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087051.D
Acq On : 17 Jun 2025 11:59
Operator : JC\MD
Sample : VN0617WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Quant Time: Jun 18 01:44:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



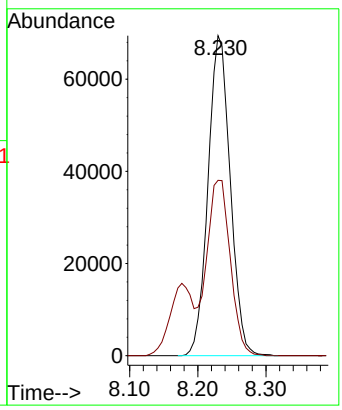


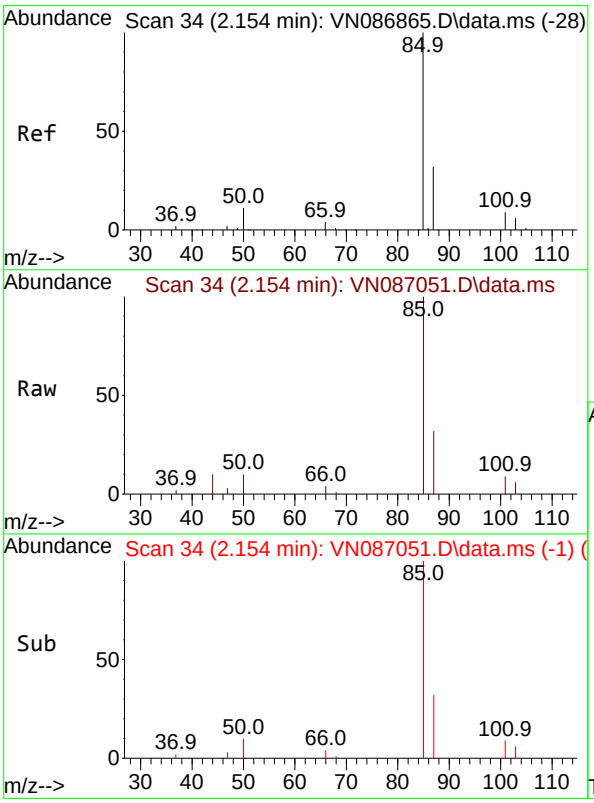
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:168 Resp: 157438

Ion	Ratio	Lower	Upper
168	100		
99	54.8	49.1	73.7

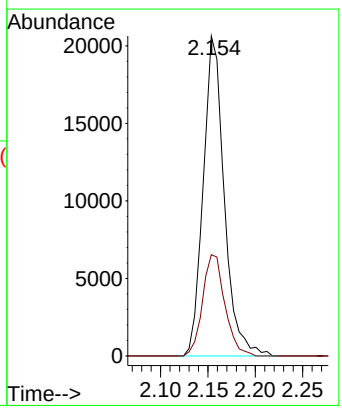


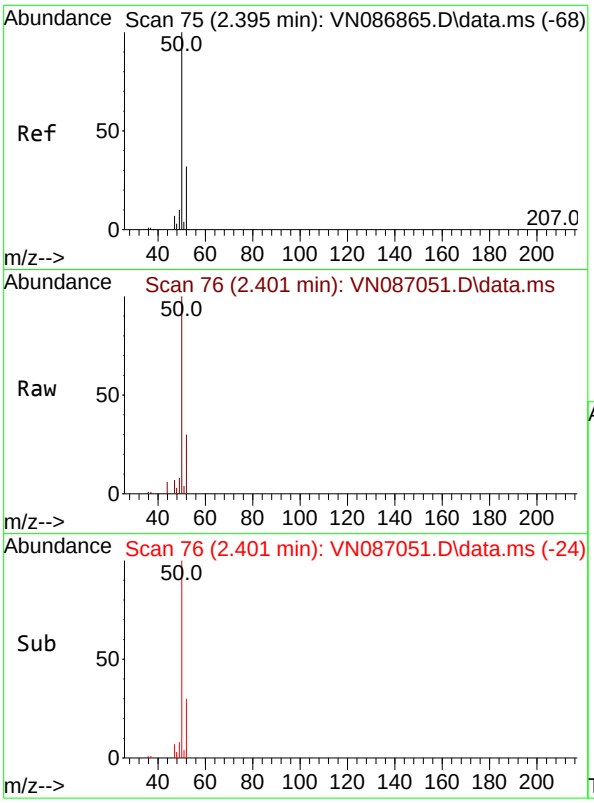


#2
Dichlorodifluoromethane
Concen: 20.294 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 85 Resp: 31857

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.2	48.6



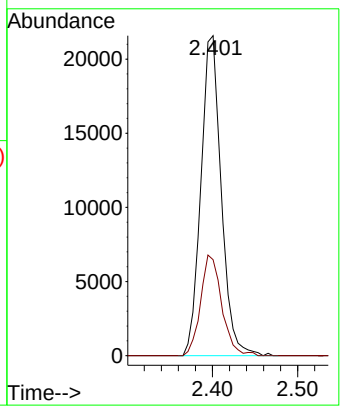


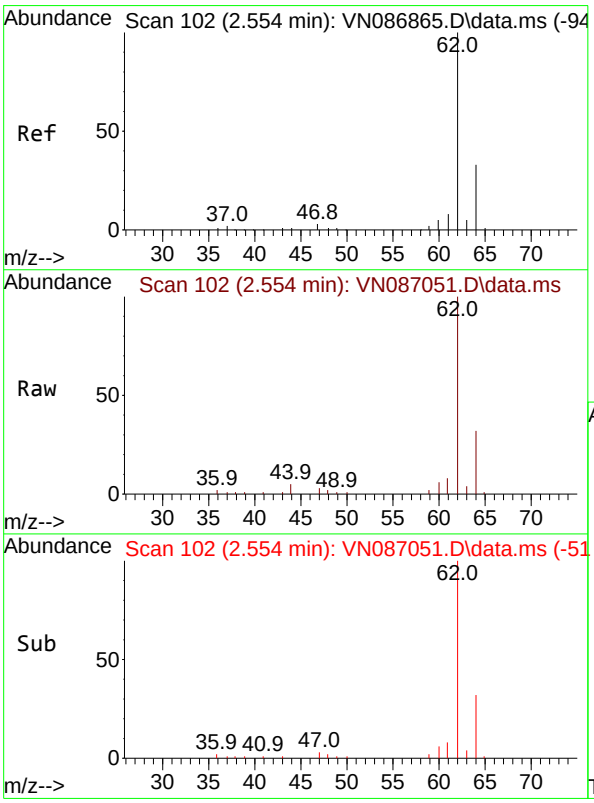
#3
Chloromethane
Concen: 17.671 ug/l
RT: 2.401 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 50 Resp: 35820

Ion	Ratio	Lower	Upper
50	100		
52	30.0	25.7	38.5

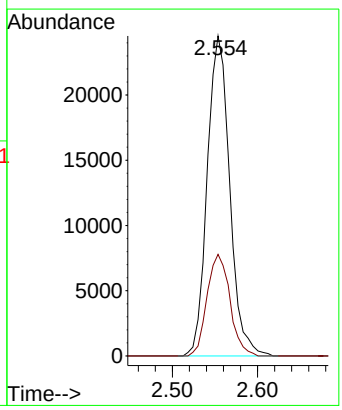


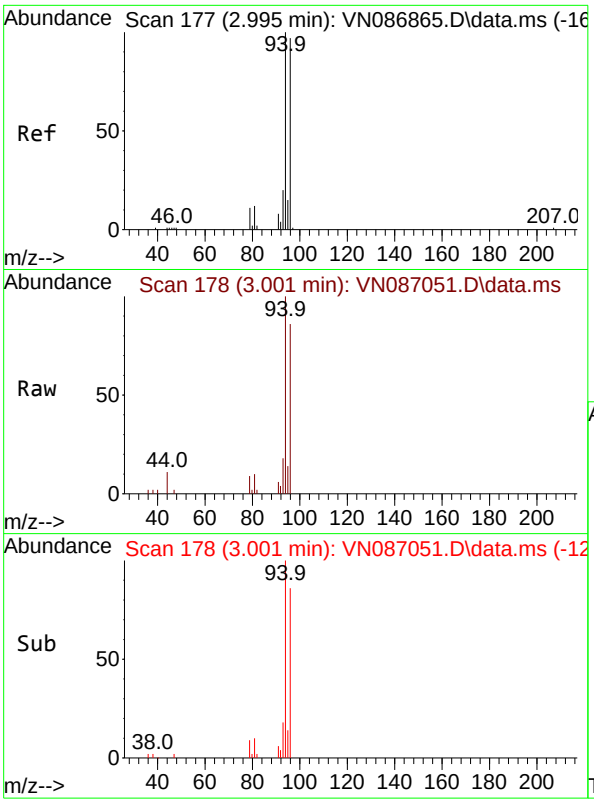


#4
Vinyl Chloride
Concen: 21.470 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 62 Resp: 44895

Ion	Ratio	Lower	Upper
62	100		
64	31.8	26.0	39.0



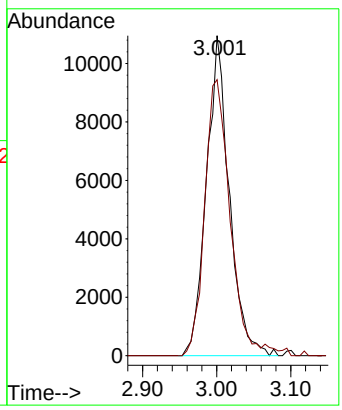


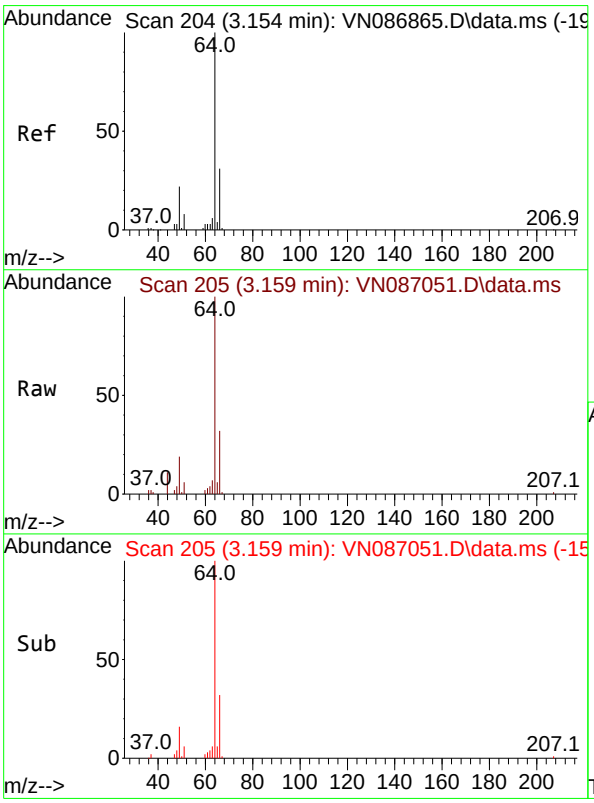
#5
Bromomethane
Concen: 20.050 ug/l
RT: 3.001 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 94 Resp: 23461

Ion	Ratio	Lower	Upper
94	100		
96	86.2	77.9	116.9

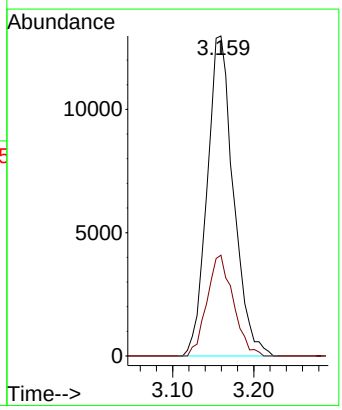


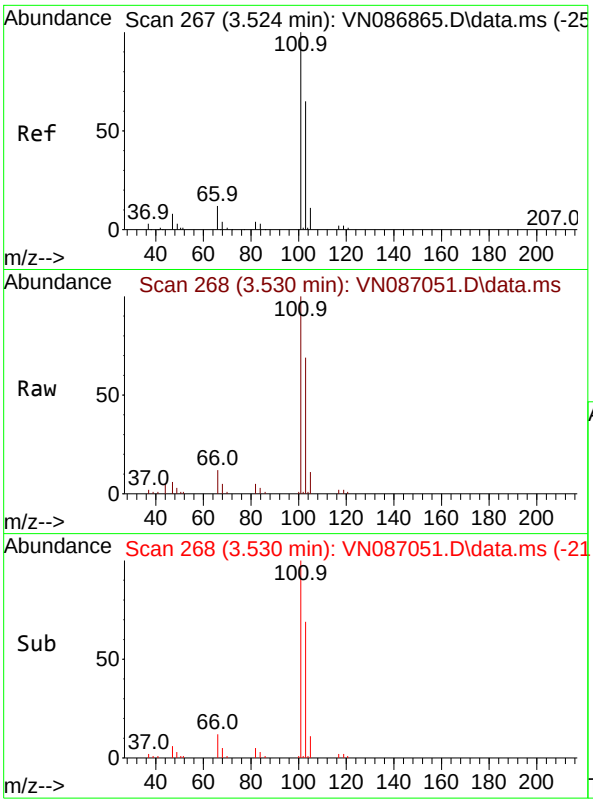


#6
Chloroethane
Concen: 21.608 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 64 Resp: 29185

Ion	Ratio	Lower	Upper
64	100		
66	31.5	24.6	36.8



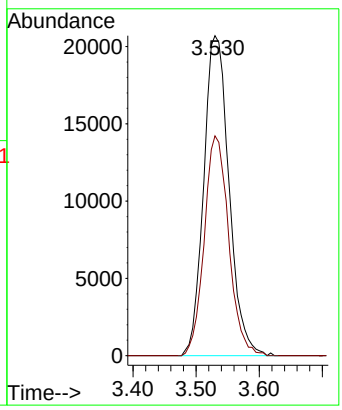


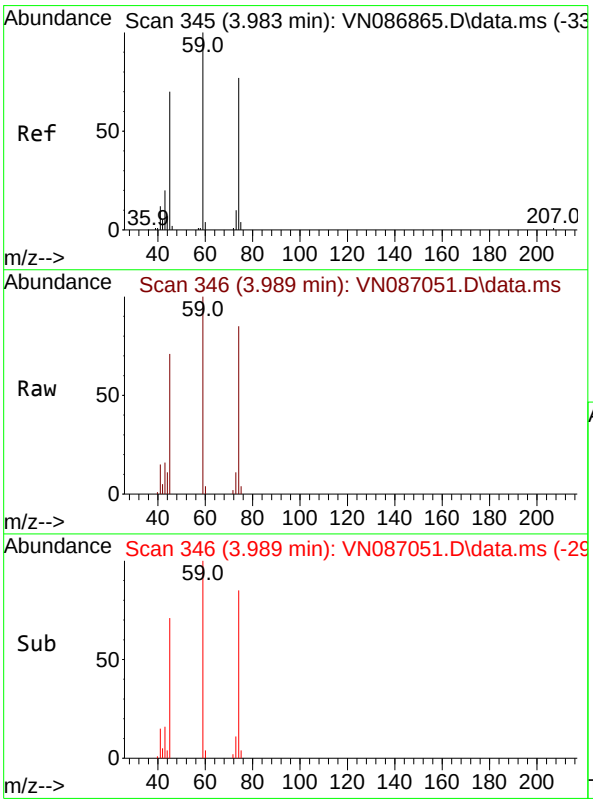
#7
Trichlorofluoromethane
Concen: 21.109 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:101 Resp: 57670

Ion	Ratio	Lower	Upper
101	100		
103	68.7	52.2	78.2

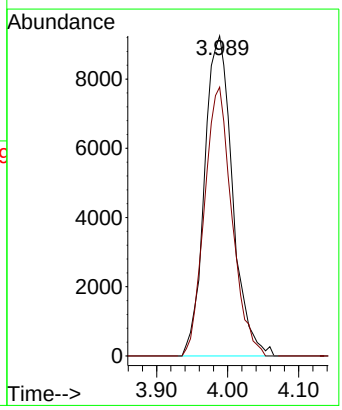


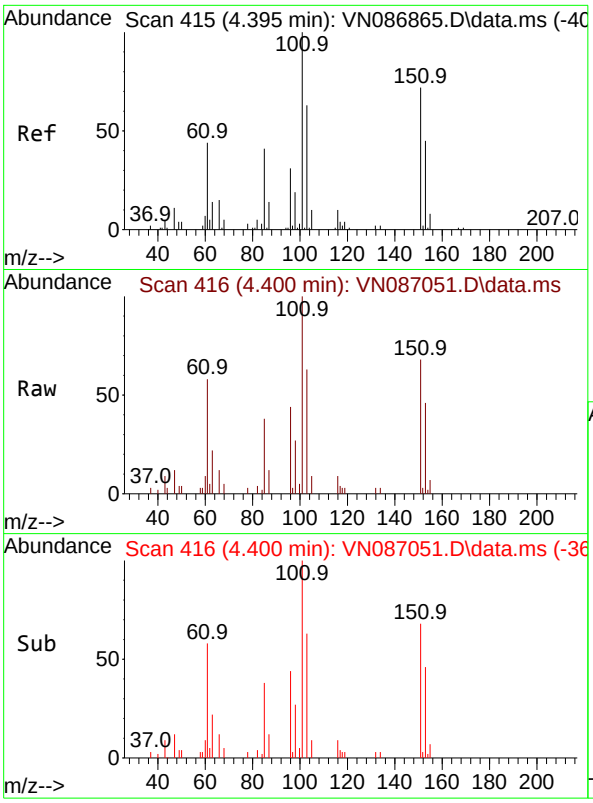


#8
Diethyl Ether
Concen: 21.241 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 74 Resp: 25284

Ion	Ratio	Lower	Upper
74	100		
45	82.6	45.5	136.5



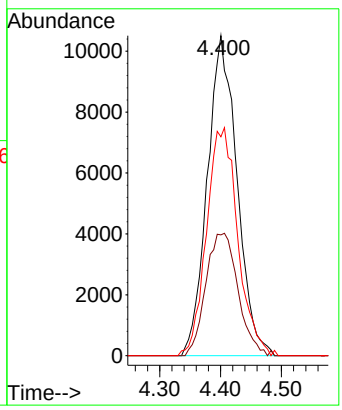


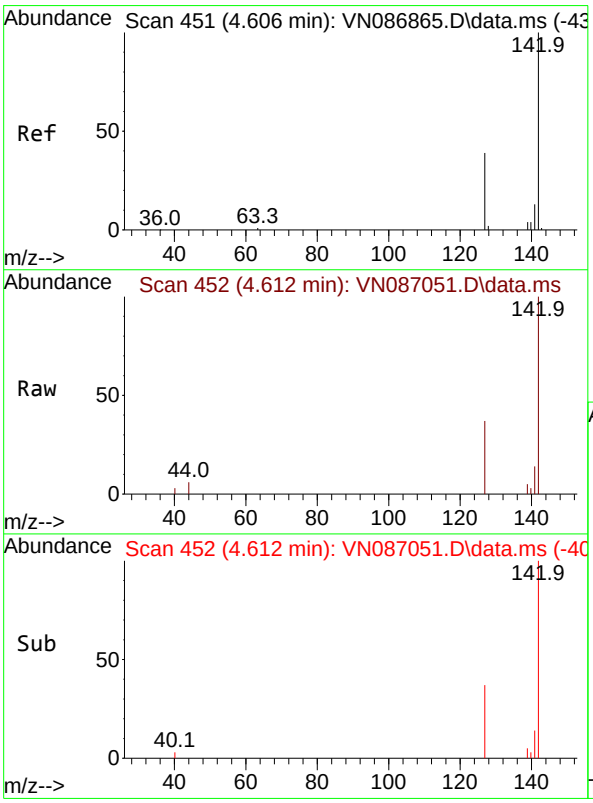
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.797 ug/l
RT: 4.400 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:101 Resp: 35697

Ion	Ratio	Lower	Upper
101	100		
85	41.4	33.8	50.8
151	74.8	58.7	88.1

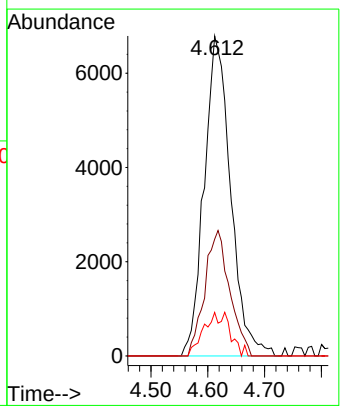


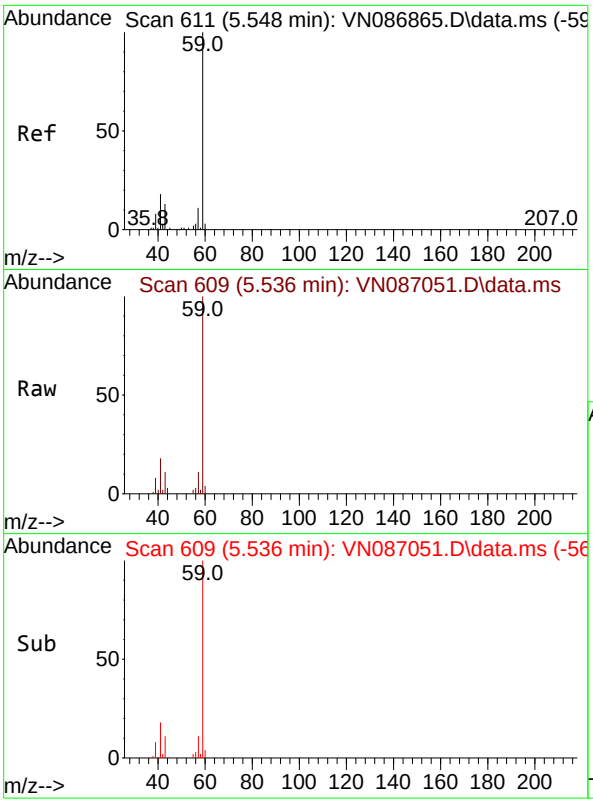


#10
Methyl Iodide
Concen: 9.865 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:142 Resp: 21949

Ion	Ratio	Lower	Upper
142	100		
127	36.5	30.9	46.3
141	13.6	10.4	15.6



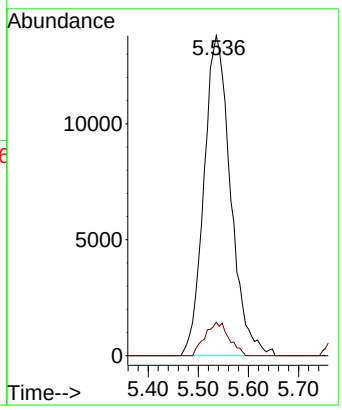


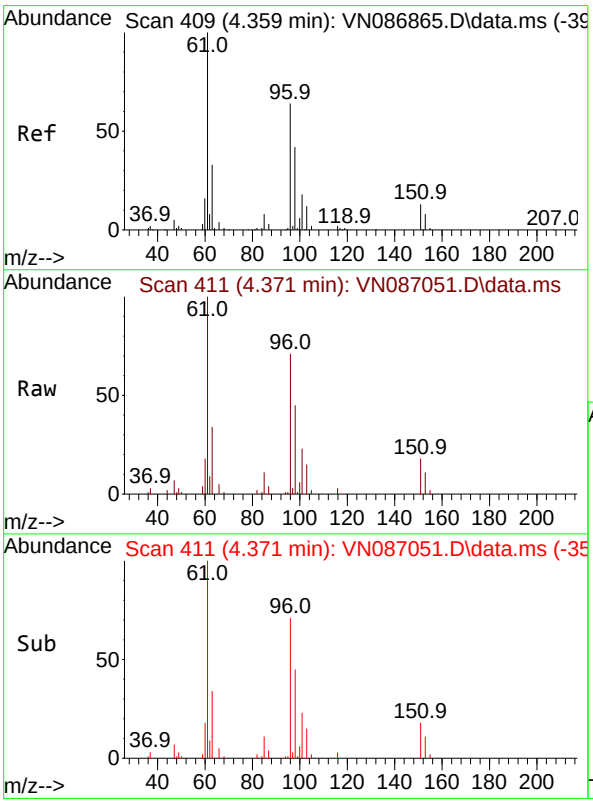
#11
Tert butyl alcohol
Concen: 89.205 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 59 Resp: 51022

Ion	Ratio	Lower	Upper
59	100		
57	9.4	8.1	12.1

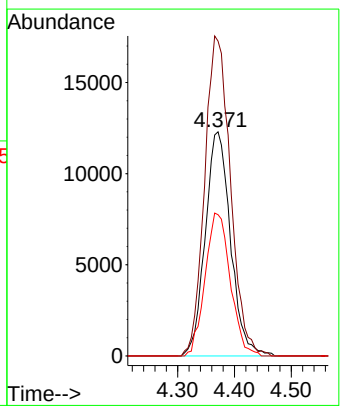


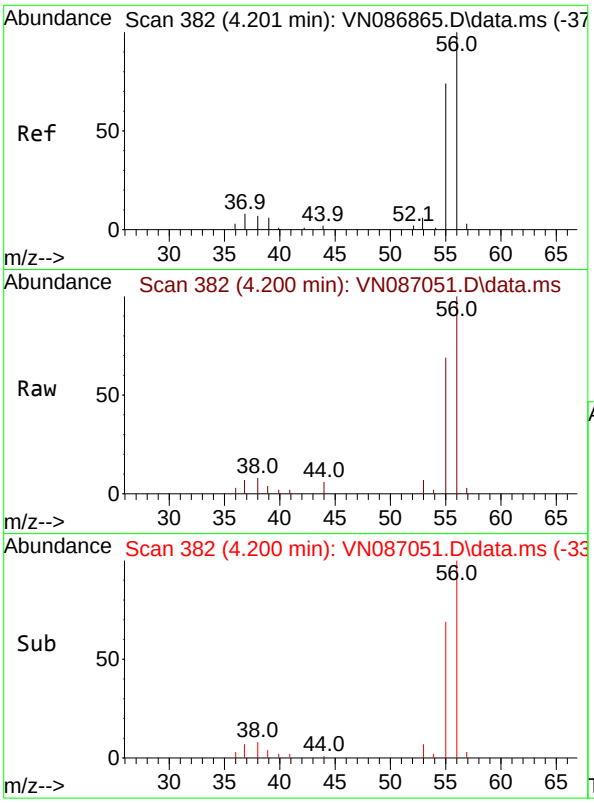


#12
1,1-Dichloroethene
Concen: 21.706 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 96 Resp: 38036

Ion	Ratio	Lower	Upper
96	100		
61	140.5	125.8	188.6
98	63.0	52.5	78.7



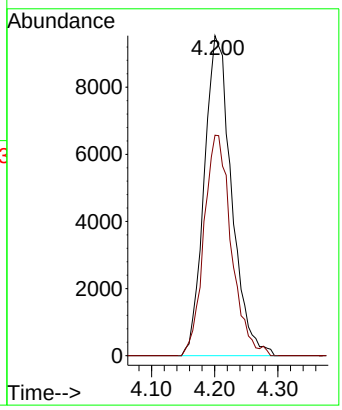


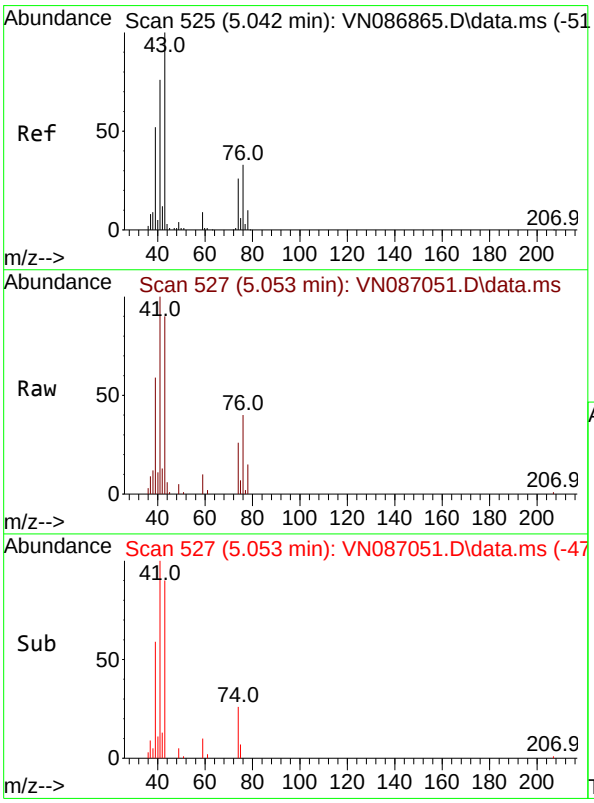
#13
Acrolein
Concen: 157.981 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 56 Resp: 28602

Ion	Ratio	Lower	Upper
56	100		
55	69.3	55.6	83.4

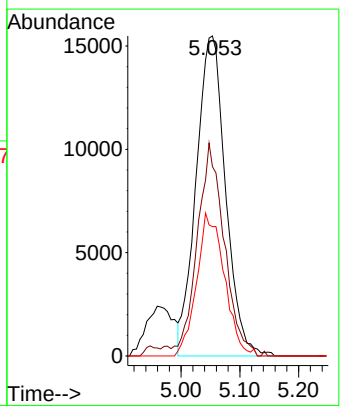


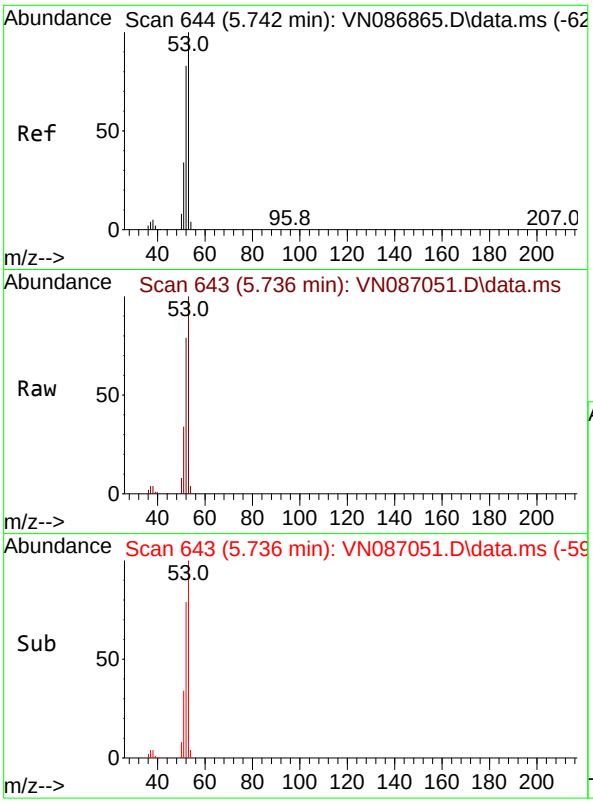


#14
Allyl chloride
Concen: 18.568 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.012 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 41 Resp: 53962

Ion	Ratio	Lower	Upper
41	100		
39	61.1	51.3	76.9
76	41.9	31.4	47.0



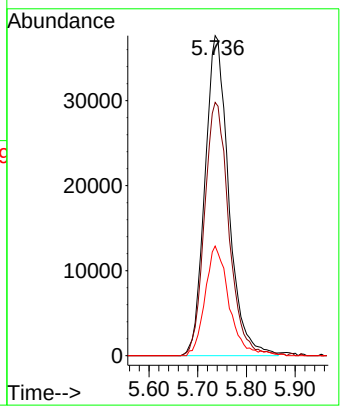


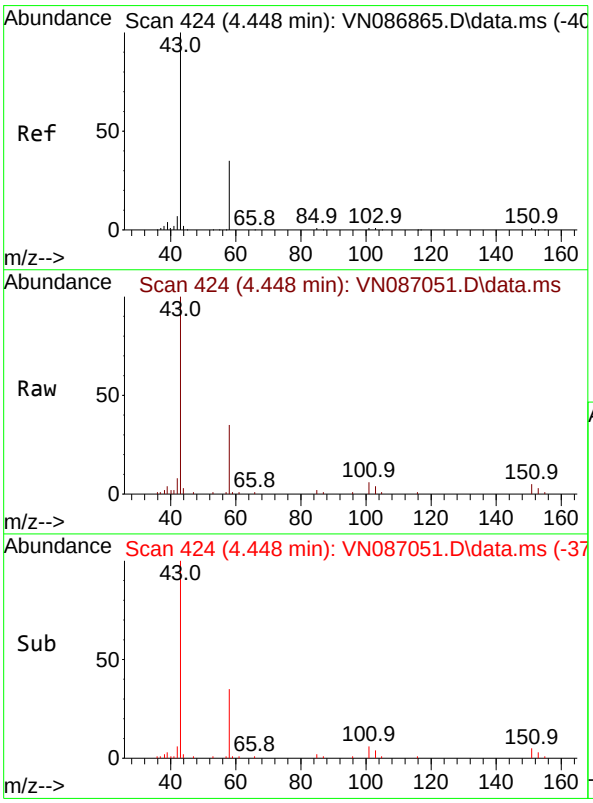
#15
Acrylonitrile
Concen: 95.394 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 53 Resp: 127531

Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.0	97.6
51	34.7	27.2	40.8

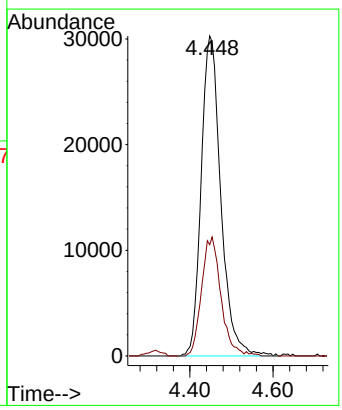


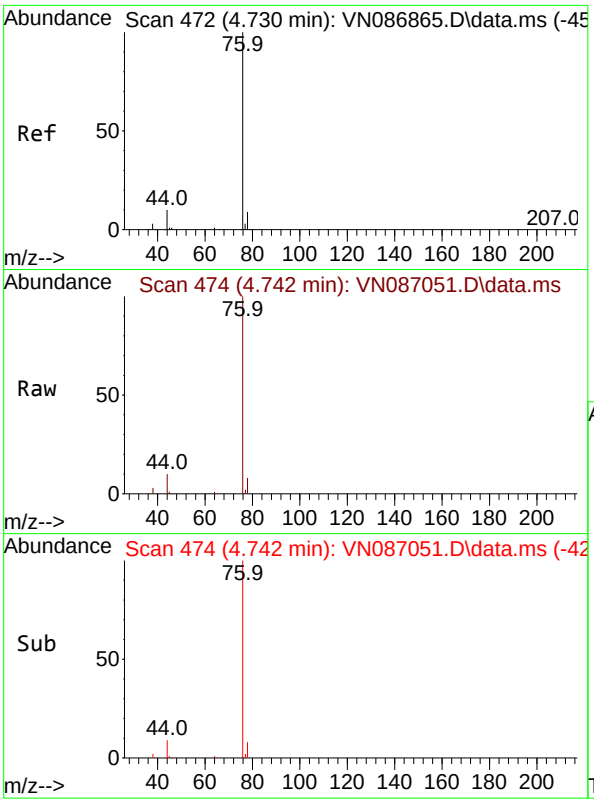


#16
Acetone
Concen: 88.843 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 43 Resp: 99313

Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.0	42.0



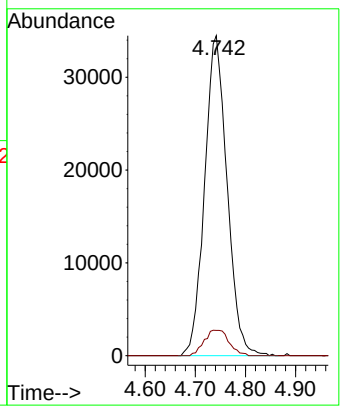


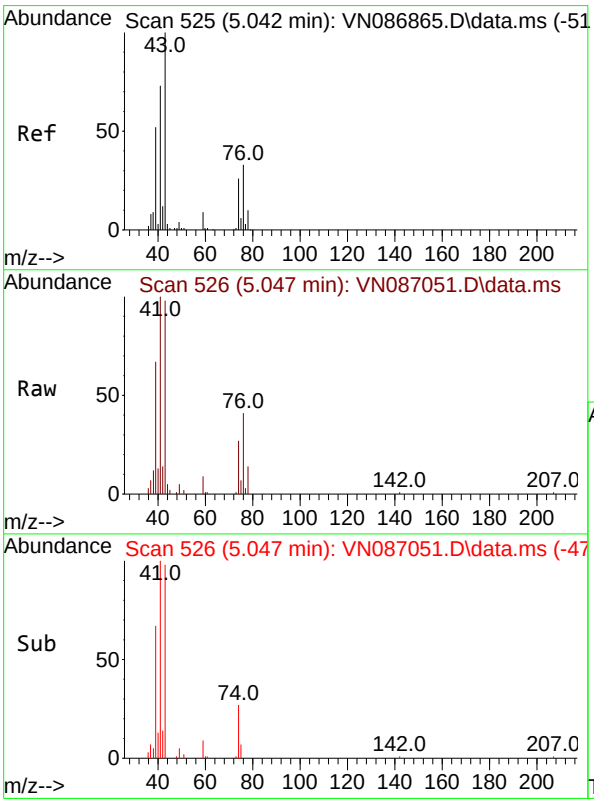
#17
Carbon Disulfide
Concen: 22.143 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 76 Resp: 107330

Ion	Ratio	Lower	Upper
76	100		
78	7.9	7.3	10.9

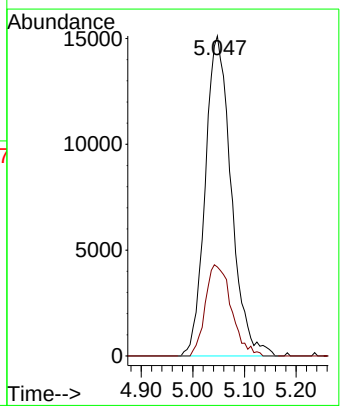


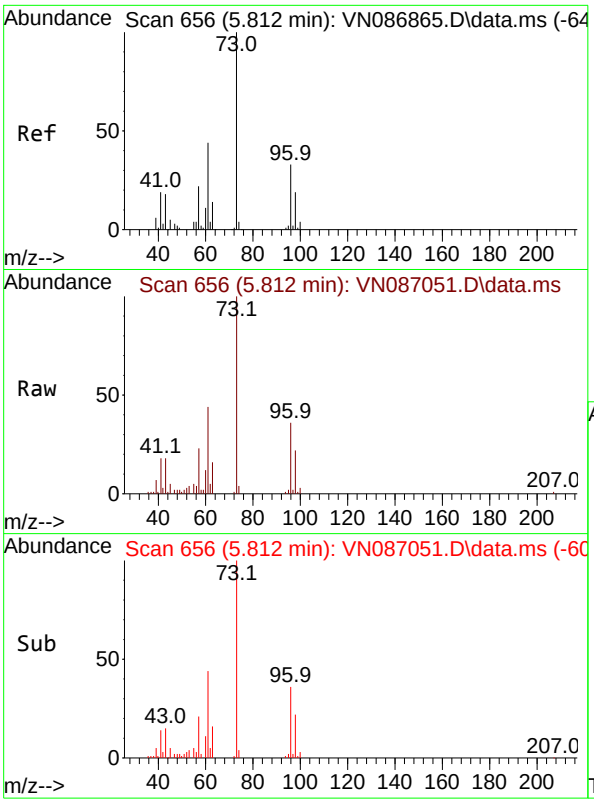


#18
Methyl Acetate
Concen: 16.164 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 43 Resp: 52657

Ion	Ratio	Lower	Upper
43	100		
74	28.5	20.7	31.1



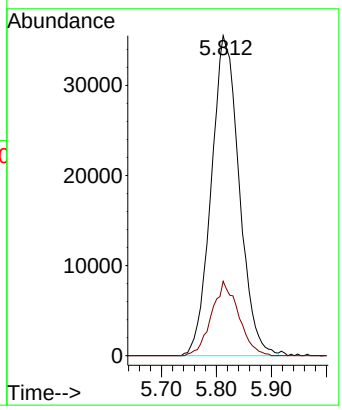


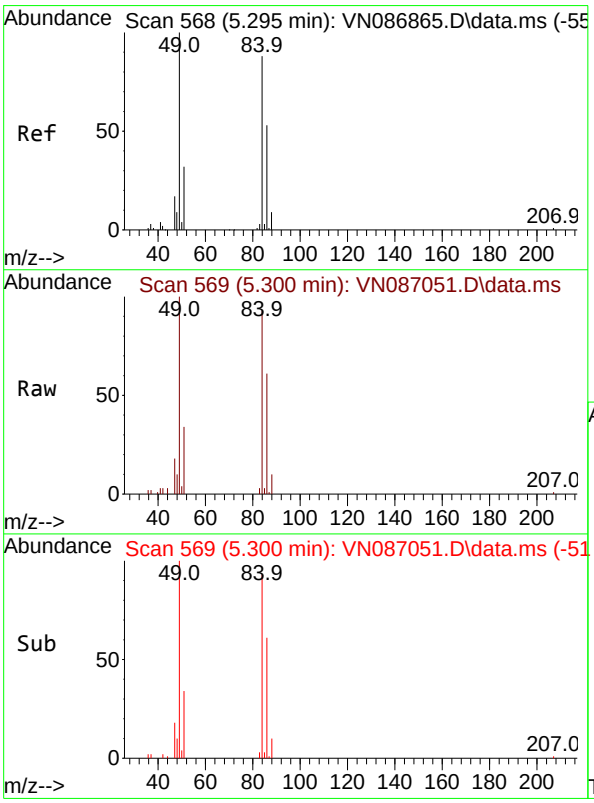
#19
Methyl tert-butyl Ether
Concen: 19.785 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 73 Resp: 125530

Ion	Ratio	Lower	Upper
73	100		
57	23.2	17.4	26.2

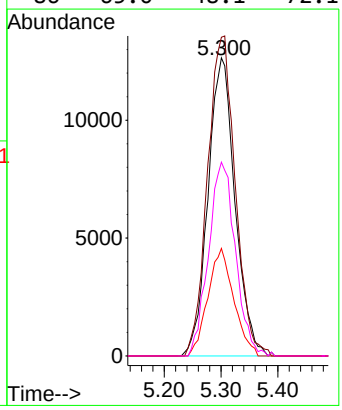


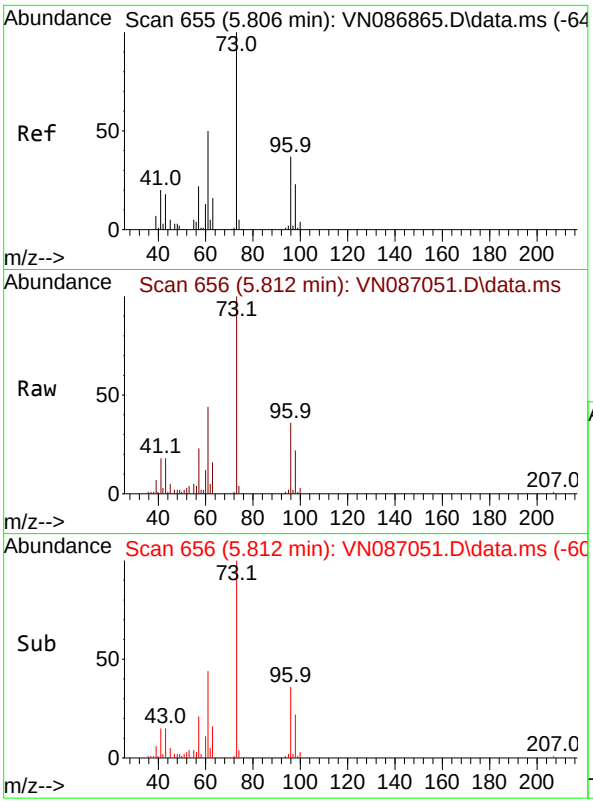


#20
Methylene Chloride
Concen: 19.953 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 84 Resp: 41757

Ion	Ratio	Lower	Upper
84	100		
49	107.0	90.5	135.7
51	36.1	28.5	42.7
86	65.0	48.1	72.1



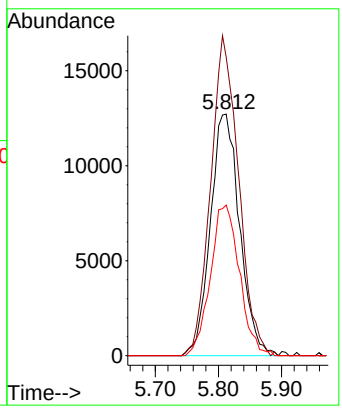


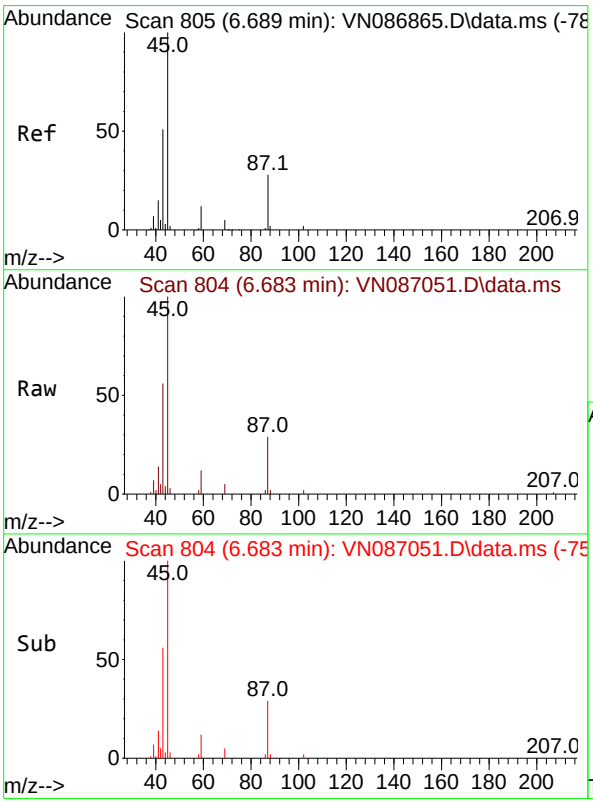
#21
trans-1,2-Dichloroethene
Concen: 20.970 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 96 Resp: 40883

Ion	Ratio	Lower	Upper
96	100		
61	123.6	109.2	163.8
98	62.3	49.8	74.8

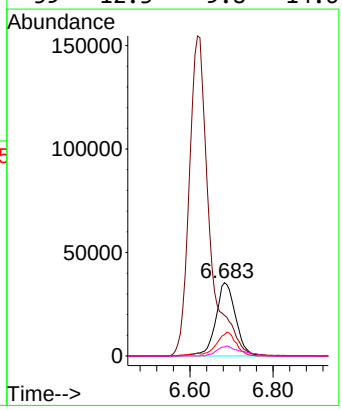


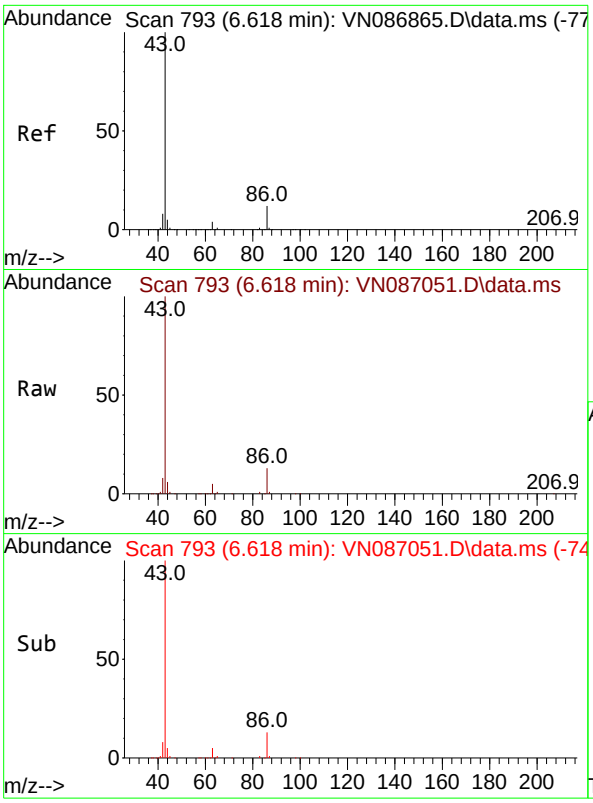


#22
Diisopropyl ether
Concen: 19.127 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 45 Resp: 117172

Ion	Ratio	Lower	Upper
45	100		
43	54.5	41.9	62.9
87	29.3	22.4	33.6
59	12.3	9.8	14.6



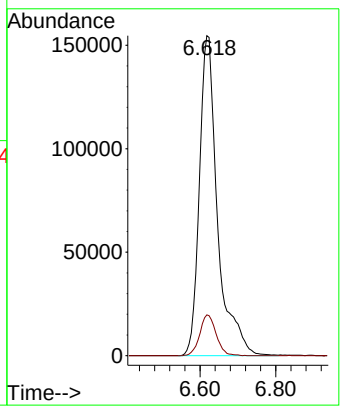


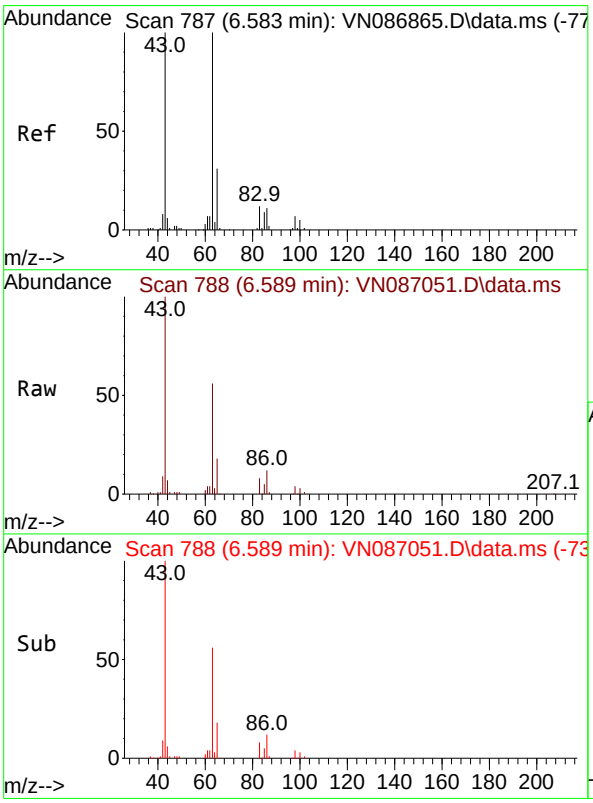
#23
Vinyl Acetate
Concen: 99.575 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 43 Resp: 515374

Ion	Ratio	Lower	Upper
43	100		
86	12.8	9.5	14.3

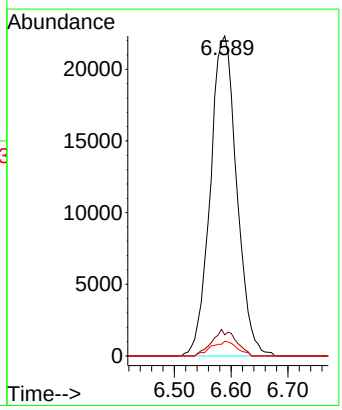


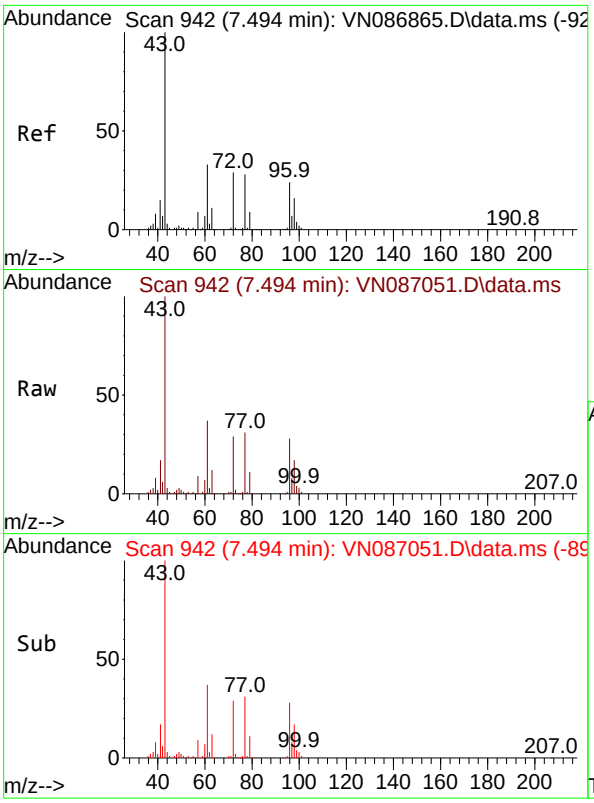


#24
1,1-Dichloroethane
Concen: 20.458 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 63 Resp: 72122

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.6	10.8
100	4.6	2.6	7.8



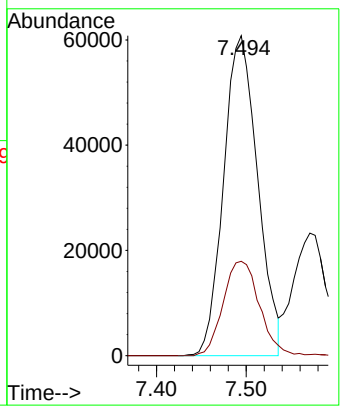


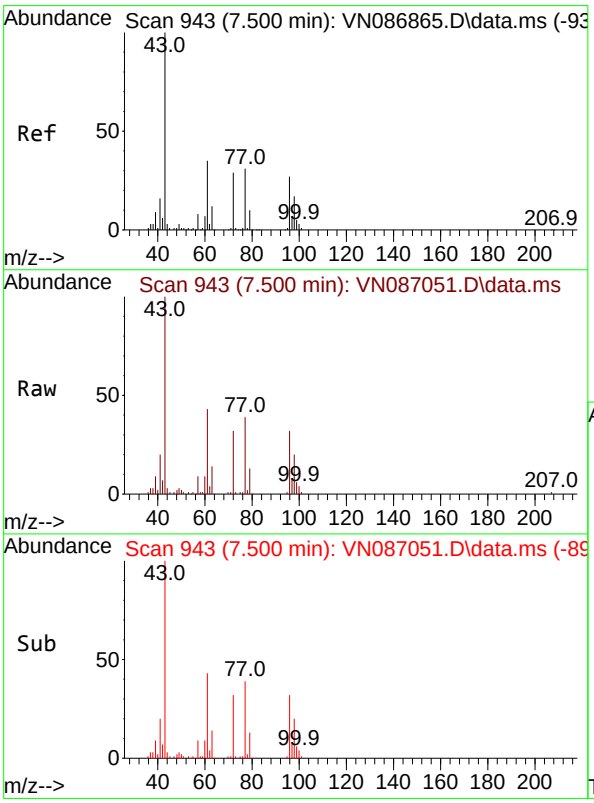
#25
2-Butanone
Concen: 88.228 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 43 Resp: 160313

Ion	Ratio	Lower	Upper
43	100		
72	29.5	23.0	34.6

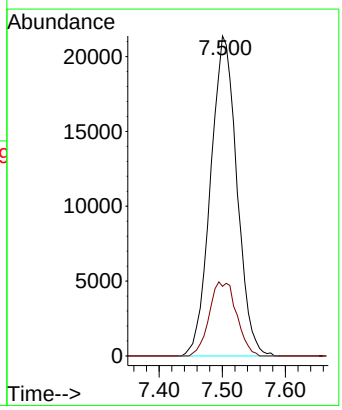


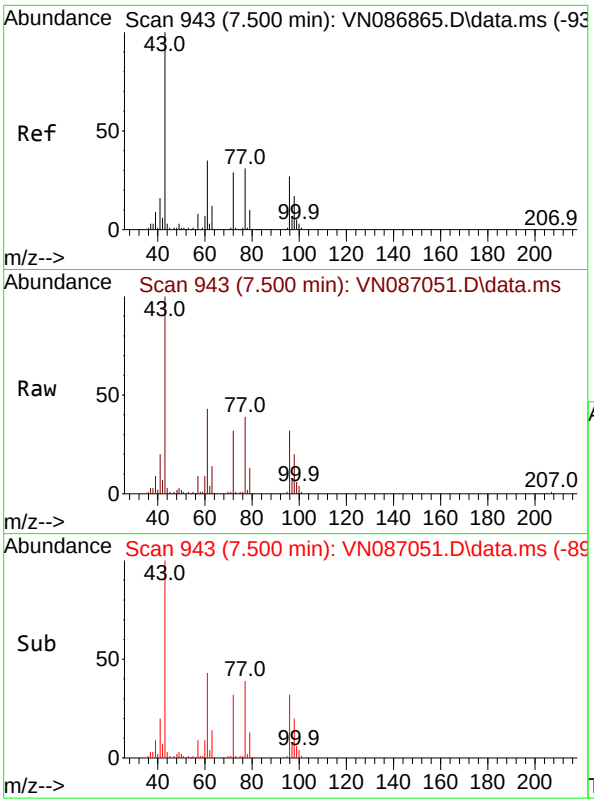


#26
2,2-Dichloropropane
Concen: 22.599 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 77 Resp: 61973

Ion	Ratio	Lower	Upper
77	100		
97	24.0	11.6	34.7



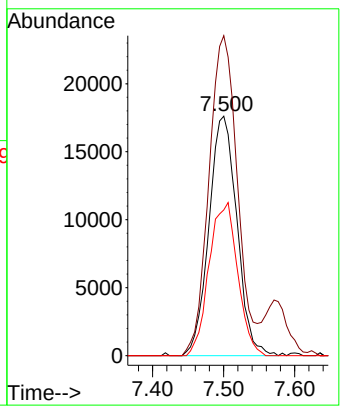


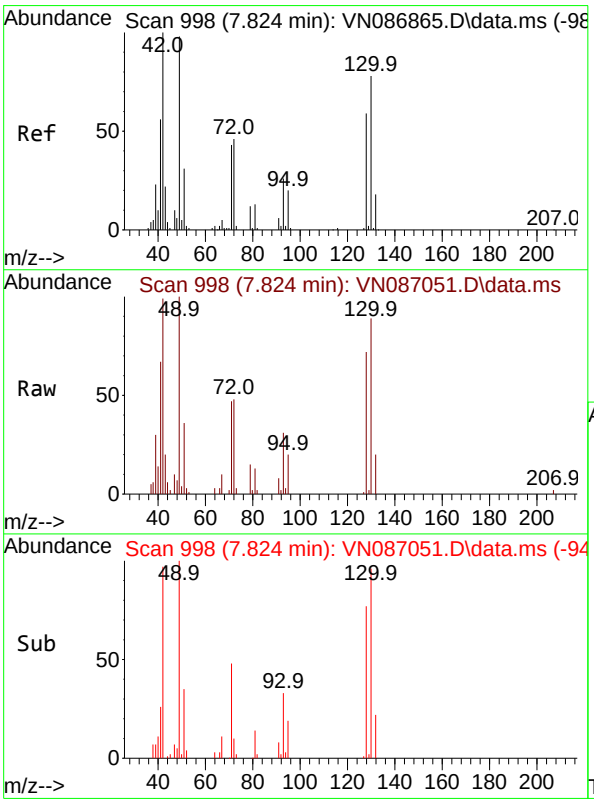
#27
cis-1,2-Dichloroethene
Concen: 20.688 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 96 Resp: 48236

Ion	Ratio	Lower	Upper
96	100		
61	135.6	0.0	278.0
98	65.2	0.0	128.2

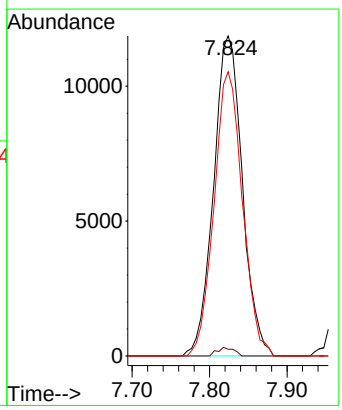


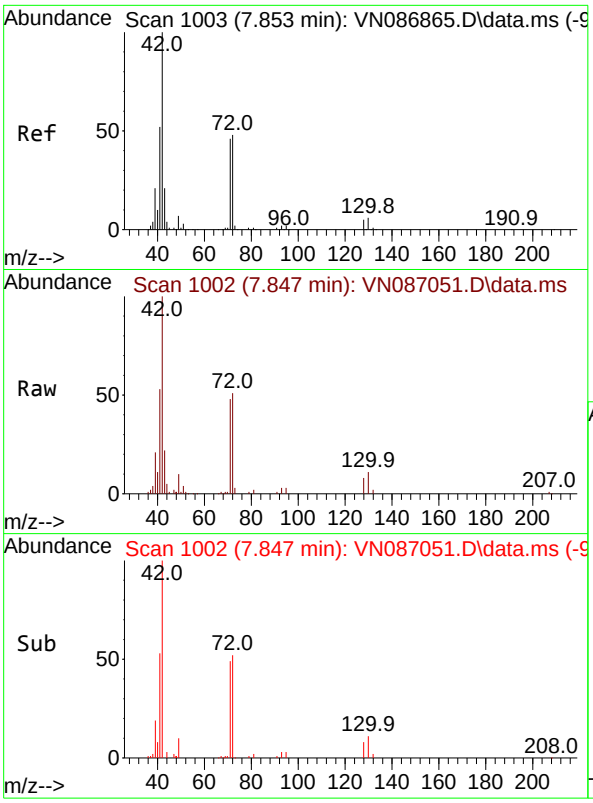


#28
Bromochloromethane
Concen: 17.650 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 49 Resp: 30593

Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	3.8
130	87.8	62.2	93.2



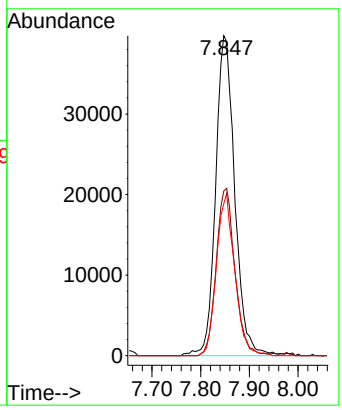


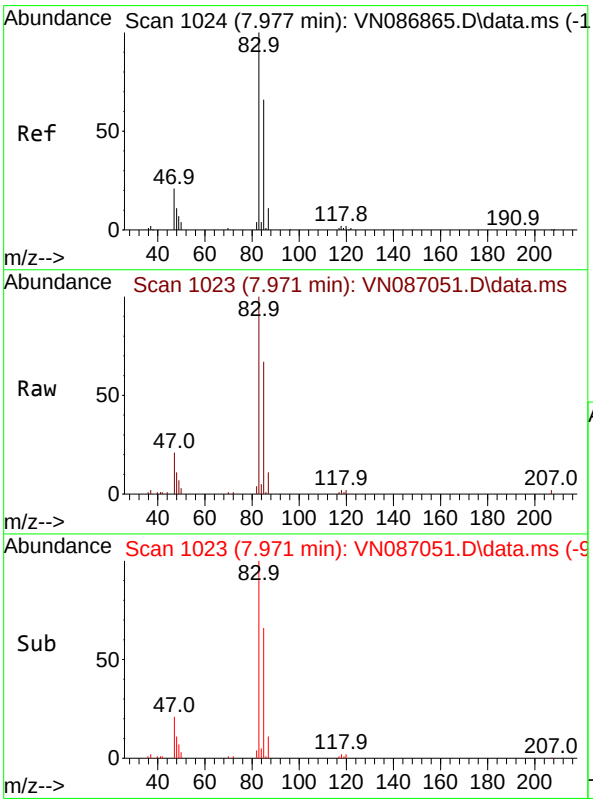
#29
Tetrahydrofuran
Concen: 91.665 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 42 Resp: 108501

Ion	Ratio	Lower	Upper
42	100		
72	51.1	37.8	56.6
71	48.3	35.6	53.4

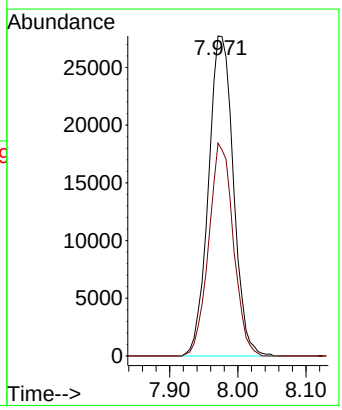


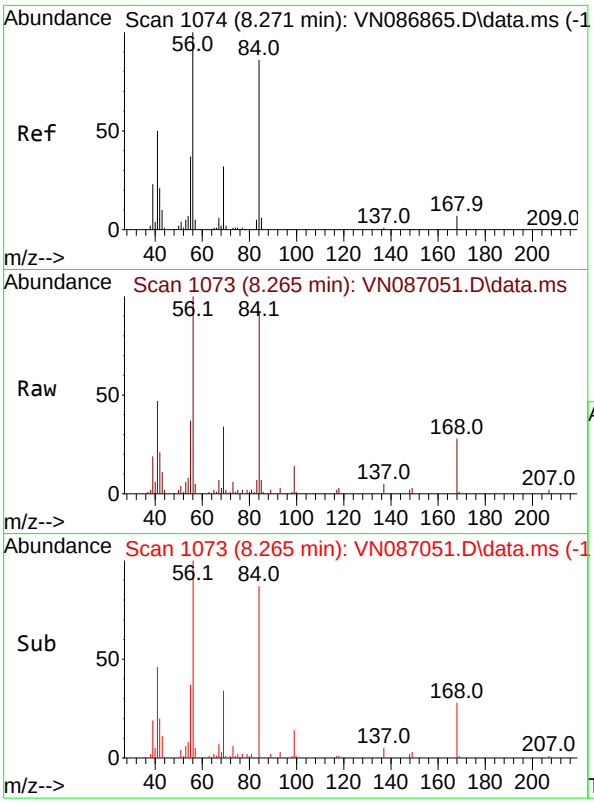


#30
Chloroform
Concen: 20.055 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 83 Resp: 70607

Ion	Ratio	Lower	Upper
83	100		
85	66.5	52.9	79.3



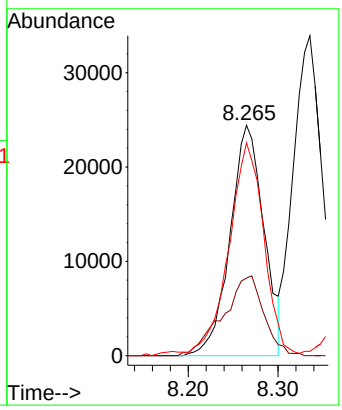


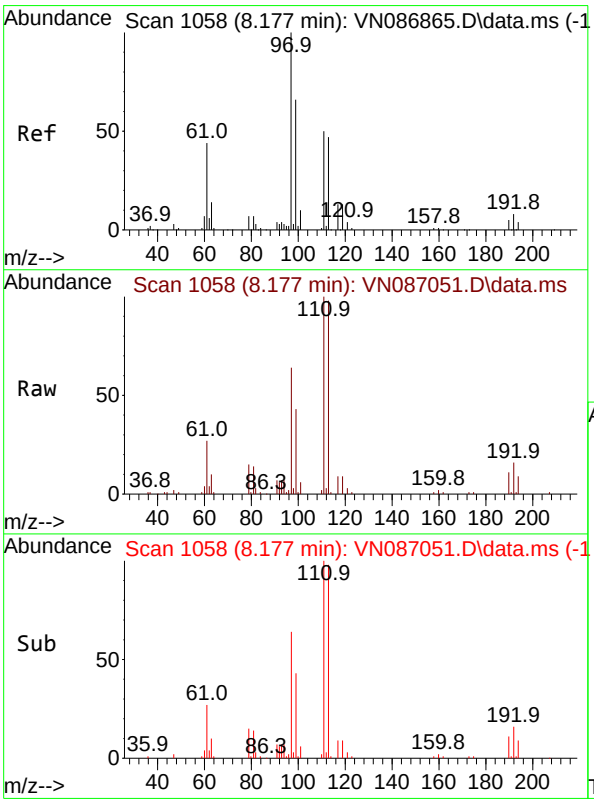
#31
Cyclohexane
Concen: 18.668 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 56 Resp: 63824

Ion	Ratio	Lower	Upper
56	100		
69	33.7	25.4	38.0
84	90.8	68.8	103.2

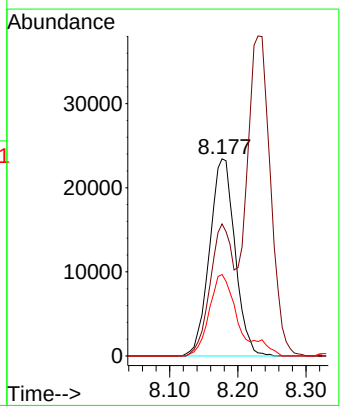


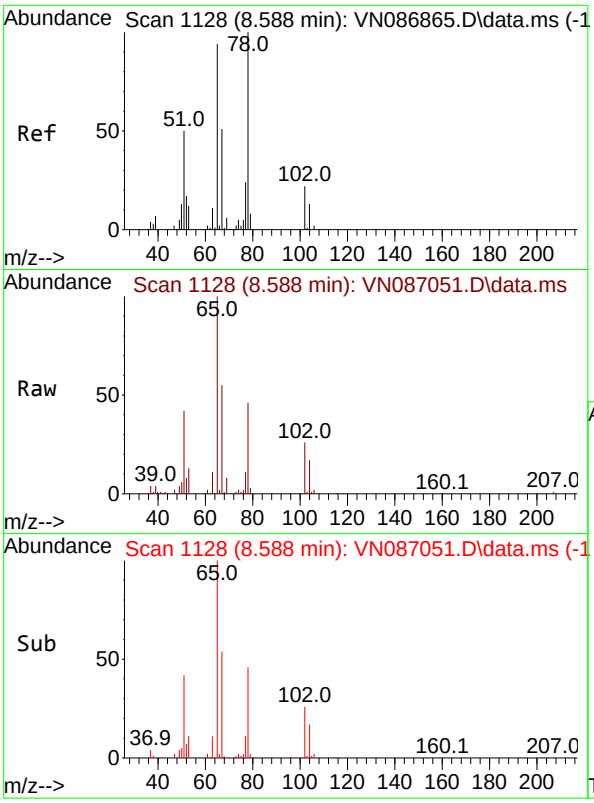


#32
1,1,1-Trichloroethane
Concen: 20.344 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 97 Resp: 60917

Ion	Ratio	Lower	Upper
97	100		
99	58.0	52.0	78.0
61	42.2	35.9	53.9



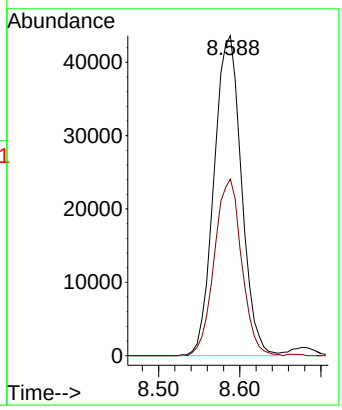


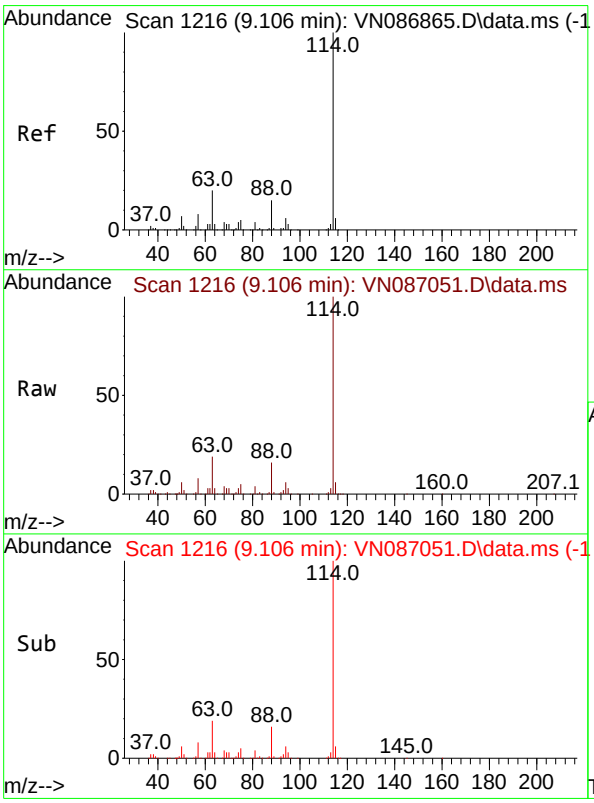
#33
1,2-Dichloroethane-d4
Concen: 48.691 ug/l
RT: 8.588 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 65 Resp: 102637

Ion	Ratio	Lower	Upper
65	100		
67	54.8	0.0	105.6

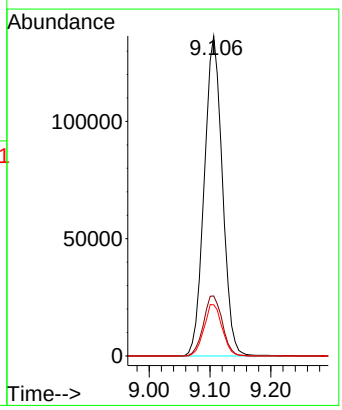


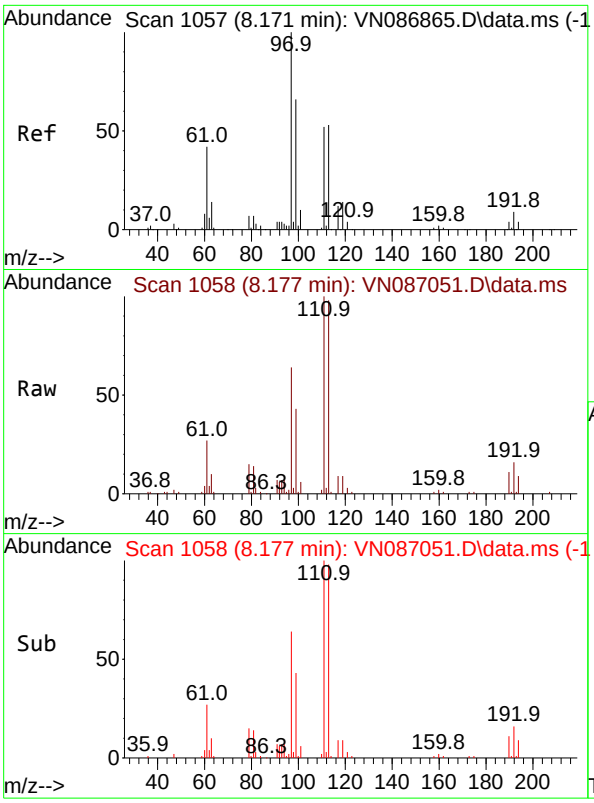


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:114 Resp: 281588

Ion	Ratio	Lower	Upper
114	100		
63	18.8	0.0	39.6
88	16.0	0.0	30.2



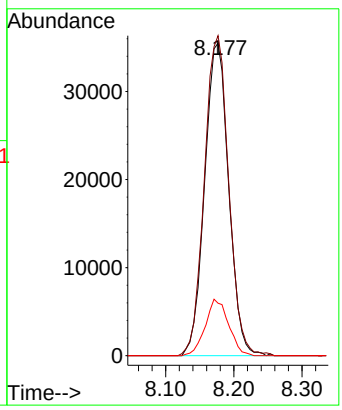


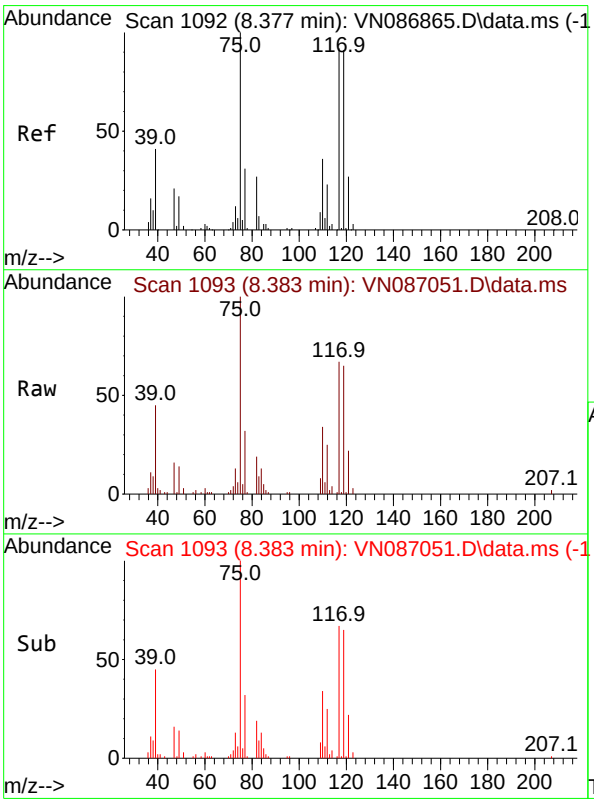
#35
Dibromofluoromethane
Concen: 52.156 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:113 Resp: 87035

Ion	Ratio	Lower	Upper
113	100		
111	103.7	84.2	126.2
192	17.5	14.2	21.4

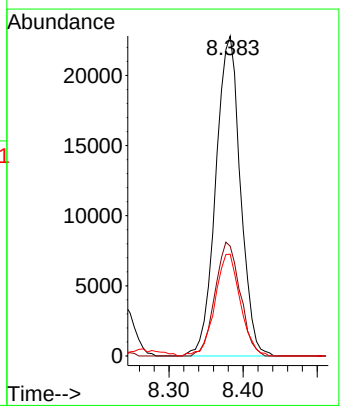


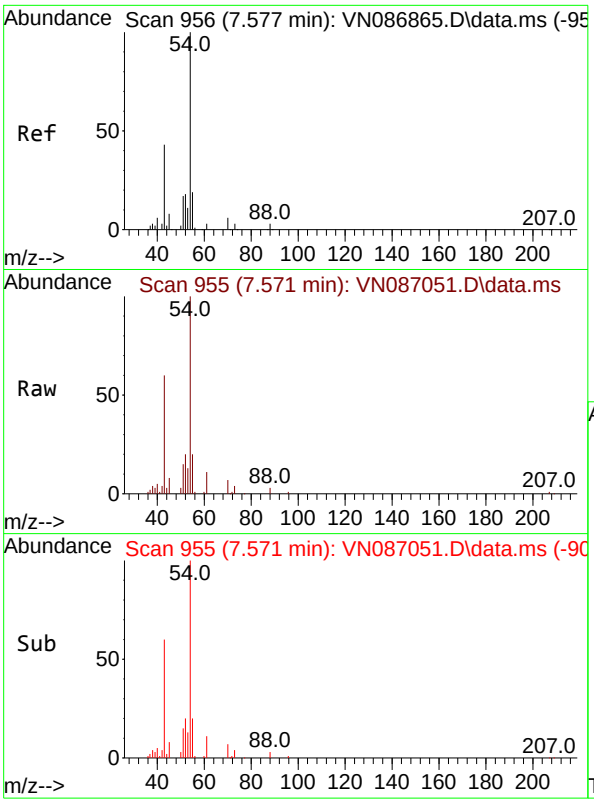


#36
1,1-Dichloropropene
Concen: 21.189 ug/l
RT: 8.383 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 75 Resp: 52690

Ion	Ratio	Lower	Upper
75	100		
110	36.2	17.6	52.9
77	32.8	25.3	37.9



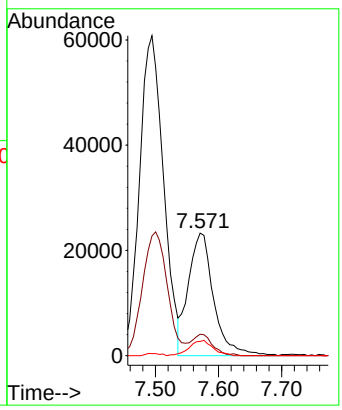


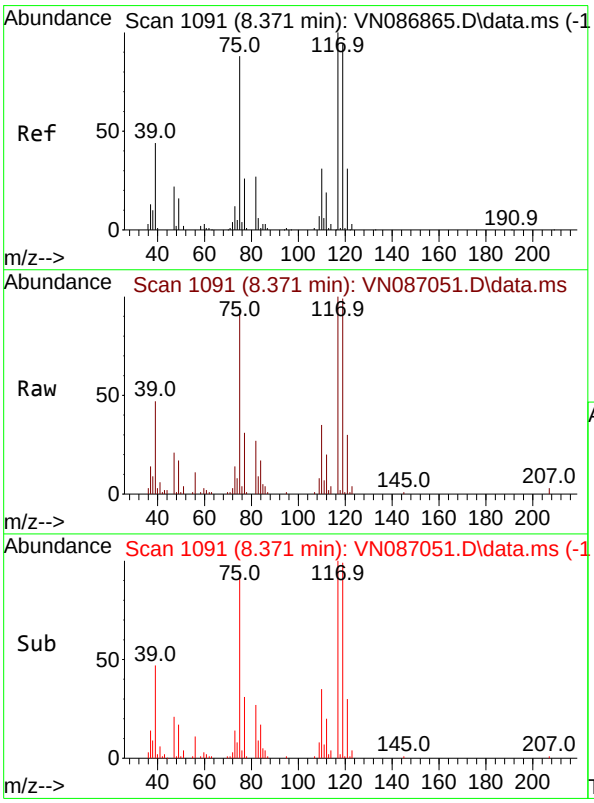
#37
Ethyl Acetate
Concen: 20.519 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 43 Resp: 64952

Ion	Ratio	Lower	Upper
43	100		
61	14.7	12.1	18.1
70	11.6	9.8	14.6

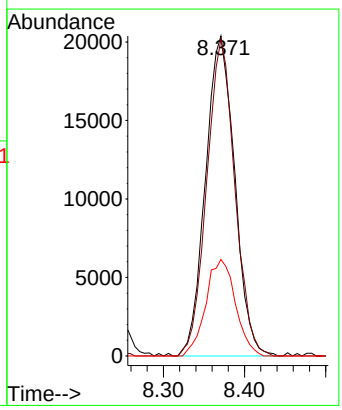


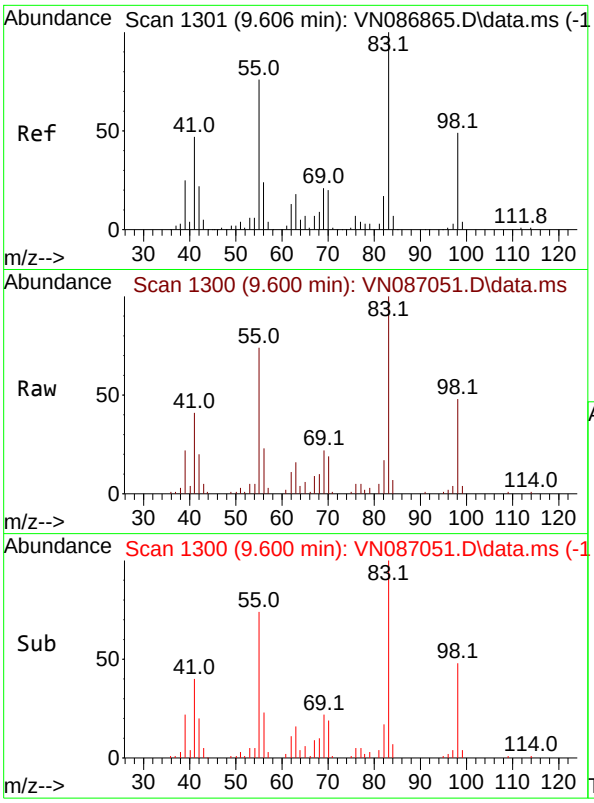


#38
Carbon Tetrachloride
Concen: 20.873 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:117 Resp: 50957

Ion	Ratio	Lower	Upper
117	100		
119	99.0	75.0	112.6
121	30.1	24.9	37.3



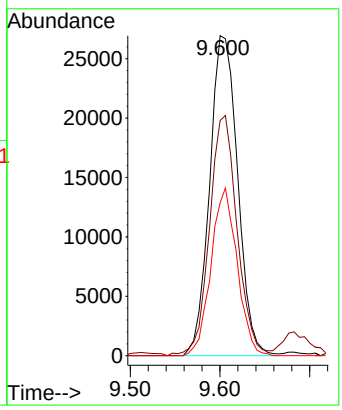


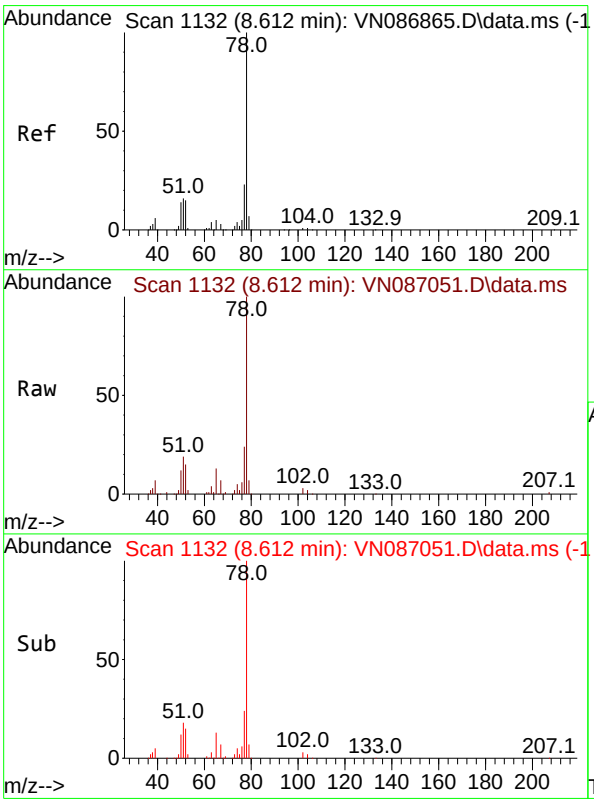
#39
Methylcyclohexane
Concen: 17.167 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 83 Resp: 58485

Ion	Ratio	Lower	Upper
83	100		
55	72.9	61.0	91.6
98	47.8	38.9	58.3

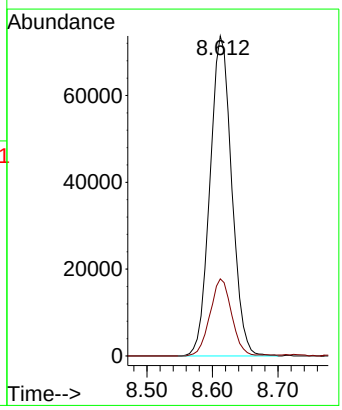


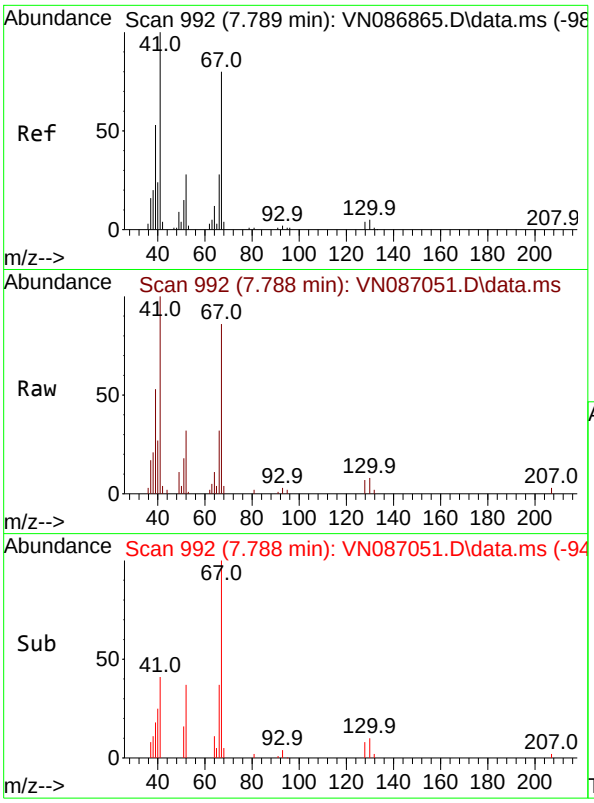


#40
Benzene
Concen: 20.869 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 78 Resp: 169691

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.7	28.1



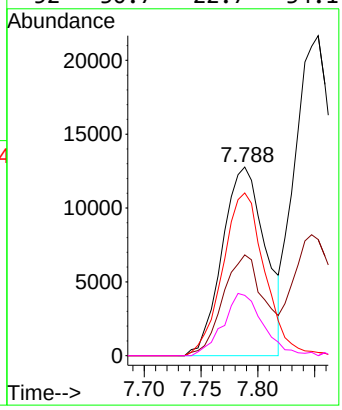


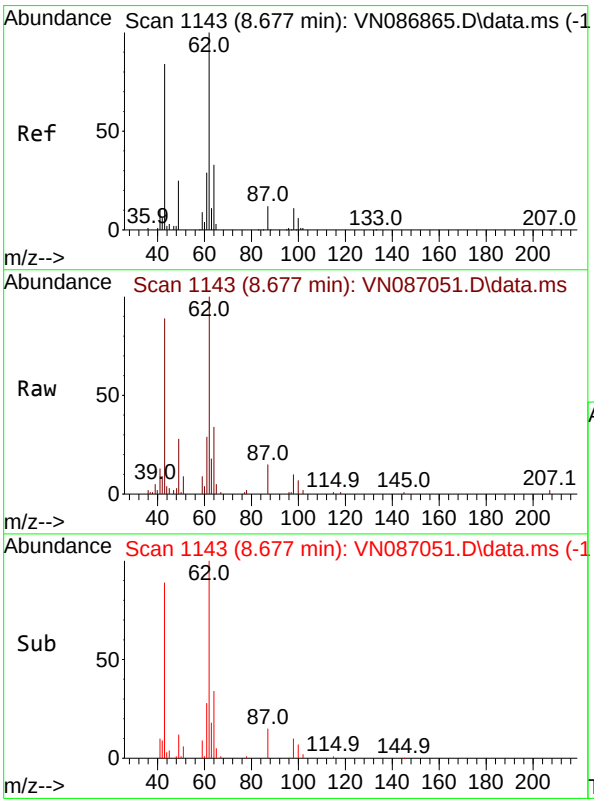
#41
Methacrylonitrile
Concen: 19.000 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 41 Resp: 33778

Ion	Ratio	Lower	Upper
41	100		
39	51.5	41.2	61.8
67	83.8	61.4	92.2
52	30.7	22.7	34.1

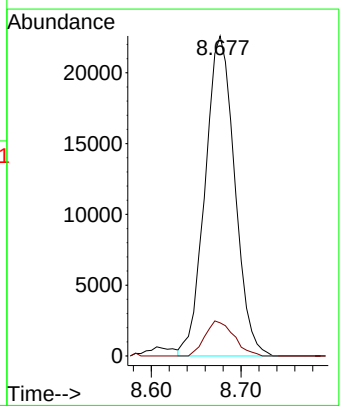


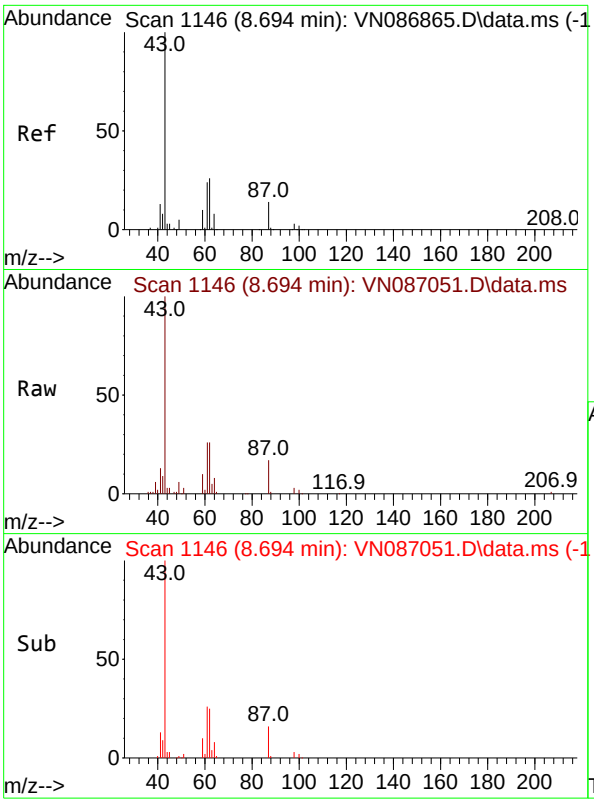


#42
1,2-Dichloroethane
Concen: 20.965 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 62 Resp: 51707

Ion	Ratio	Lower	Upper
62	100		
98	10.7	0.0	21.2



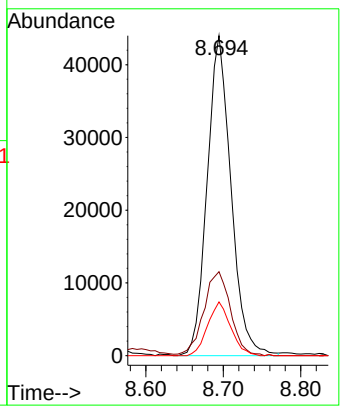


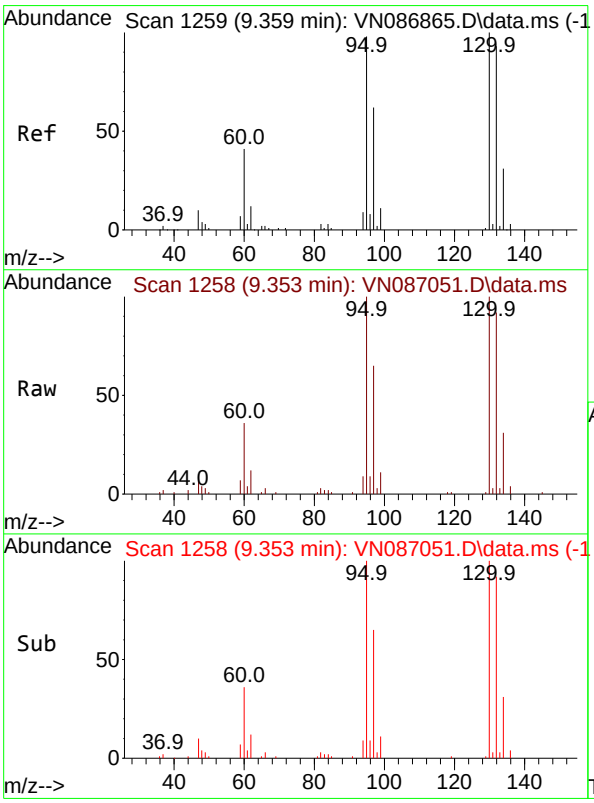
#43
Isopropyl Acetate
Concen: 18.512 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 43 Resp: 94051

Ion	Ratio	Lower	Upper
43	100		
61	29.6	22.1	33.1
87	16.3	11.8	17.6

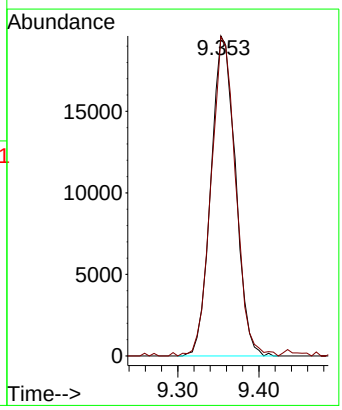


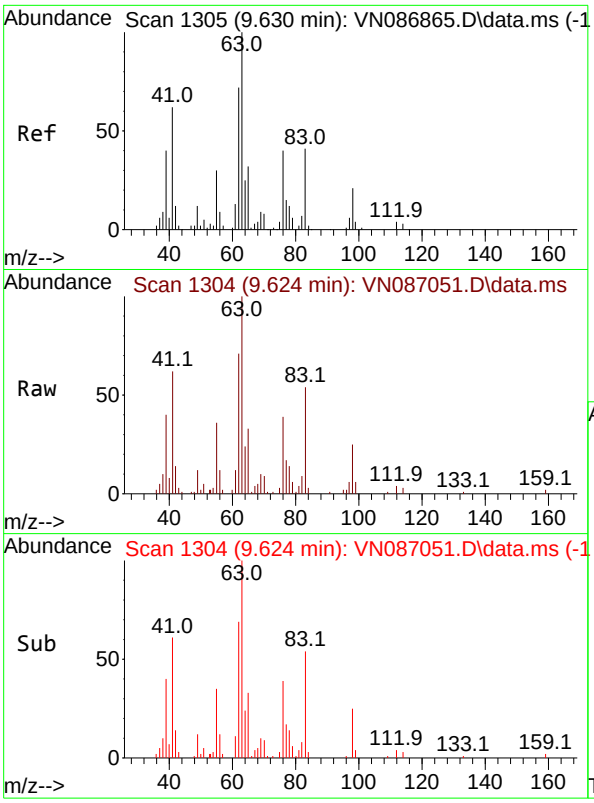


#44
Trichloroethene
Concen: 21.368 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:130 Resp: 41200

Ion	Ratio	Lower	Upper
130	100		
95	99.8	0.0	196.2



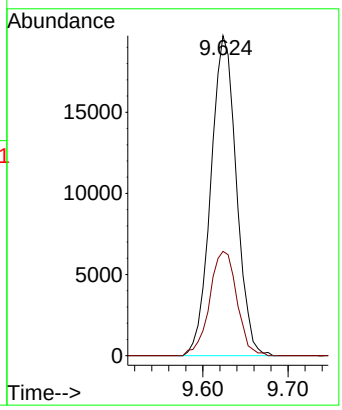


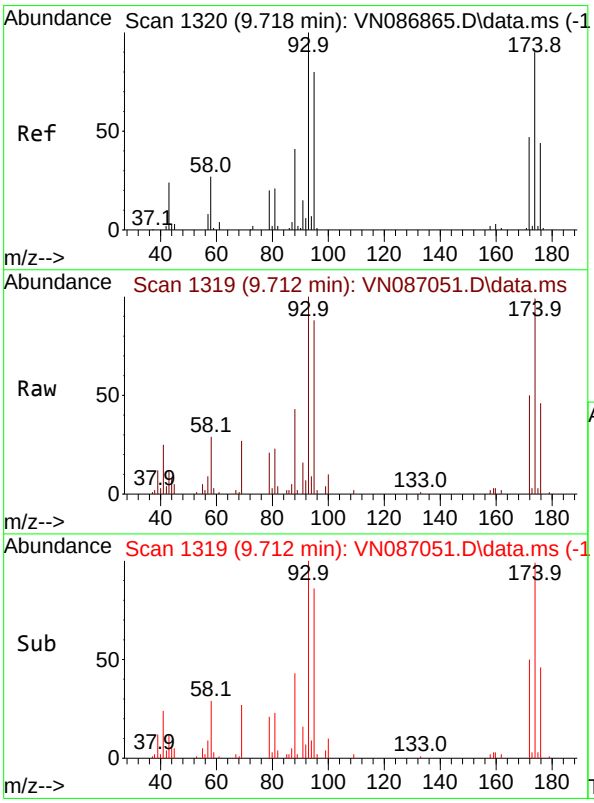
#45
1,2-Dichloropropane
Concen: 20.731 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 63 Resp: 41010

Ion	Ratio	Lower	Upper
63	100		
65	32.6	25.5	38.3

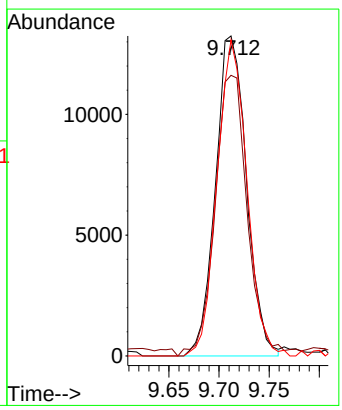


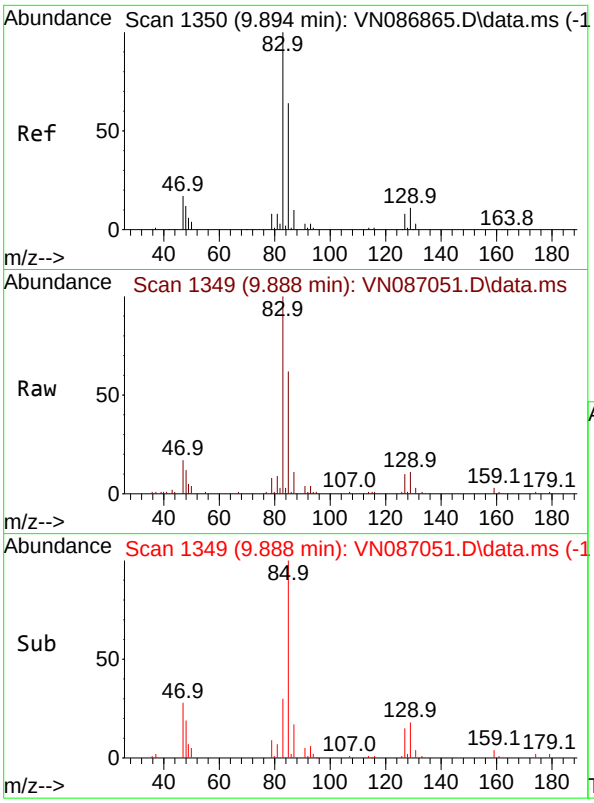


#46
Dibromomethane
Concen: 21.704 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 93 Resp: 28519

Ion	Ratio	Lower	Upper
93	100		
95	90.8	67.1	100.7
174	95.0	74.2	111.4



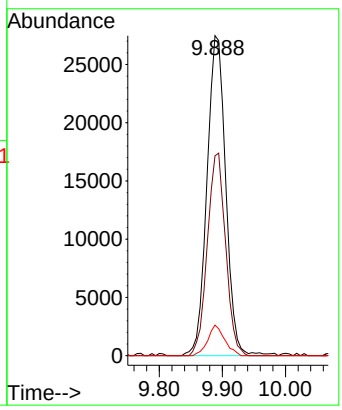


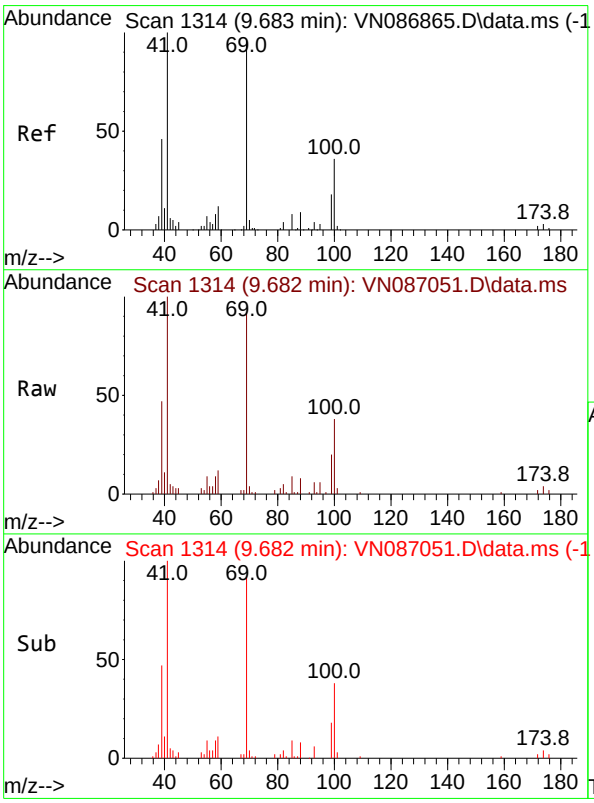
#47
Bromodichloromethane
Concen: 21.006 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 83 Resp: 56790

Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.9	76.3
127	9.6	6.6	10.0

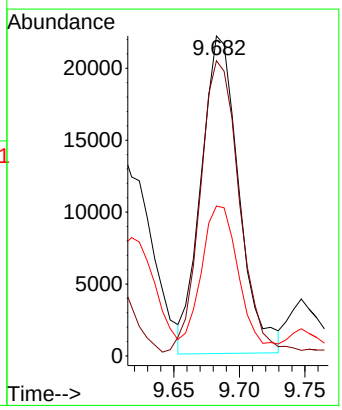


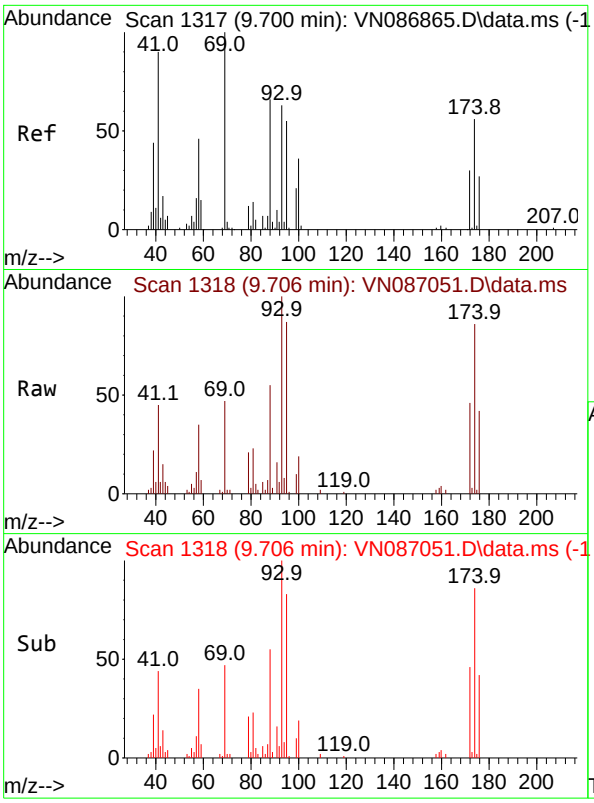


#48
Methyl methacrylate
Concen: 18.894 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 41 Resp: 44182

Ion	Ratio	Lower	Upper
41	100		
69	96.2	74.6	112.0
39	47.7	40.2	60.4



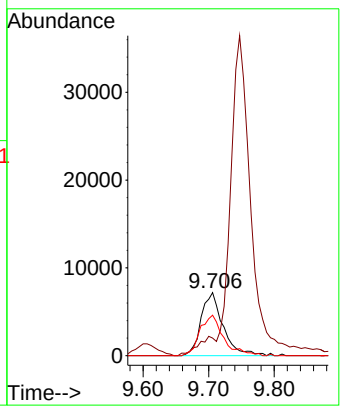


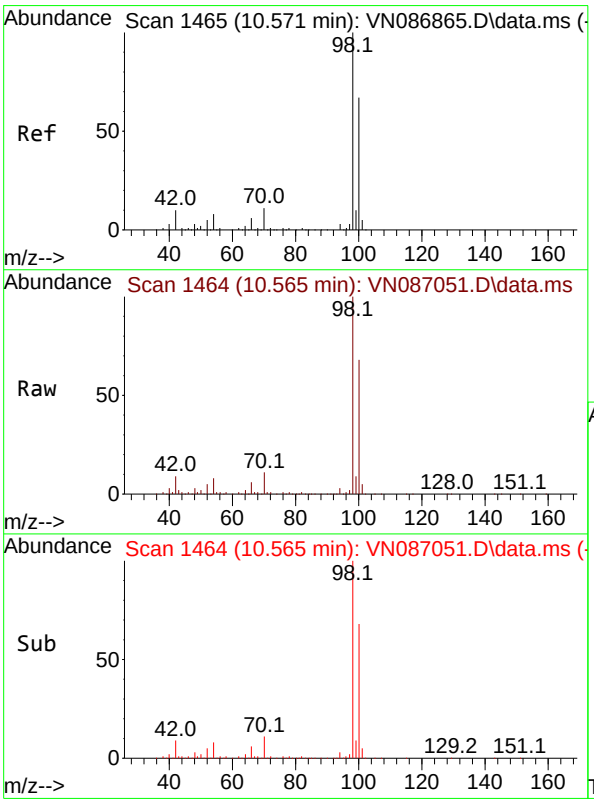
#49
1,4-Dioxane
Concen: 396.113 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 88 Resp: 16851

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	68.9	57.7	86.5

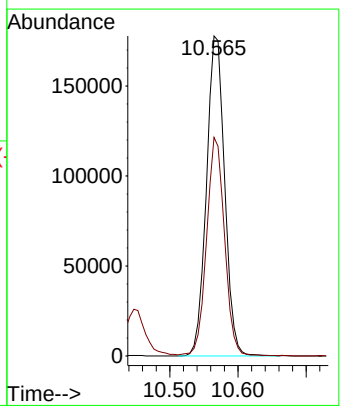


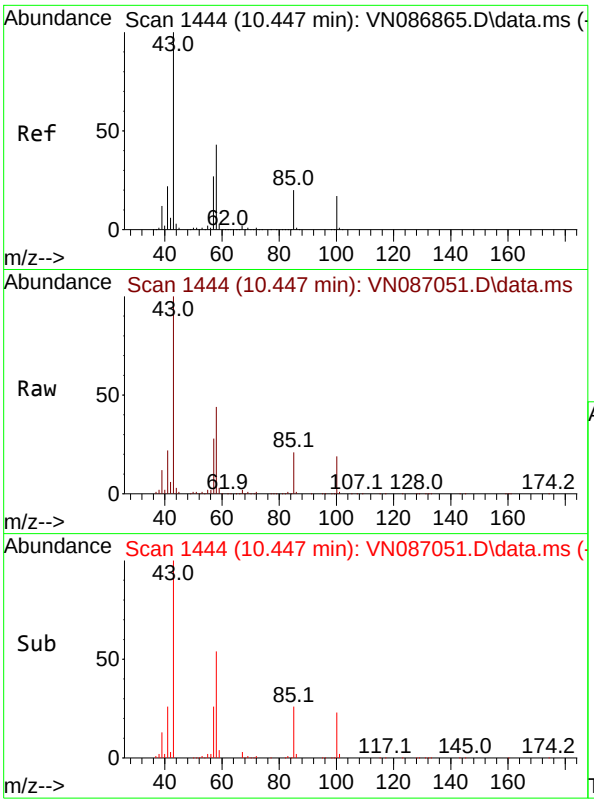


#50
Toluene-d8
Concen: 49.963 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 98 Resp: 330063

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.4	80.0



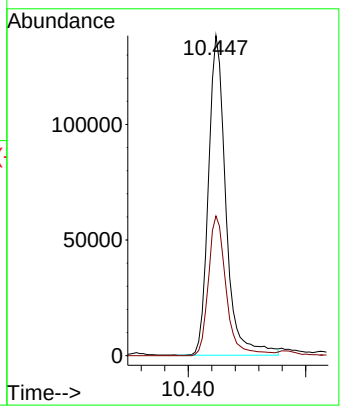


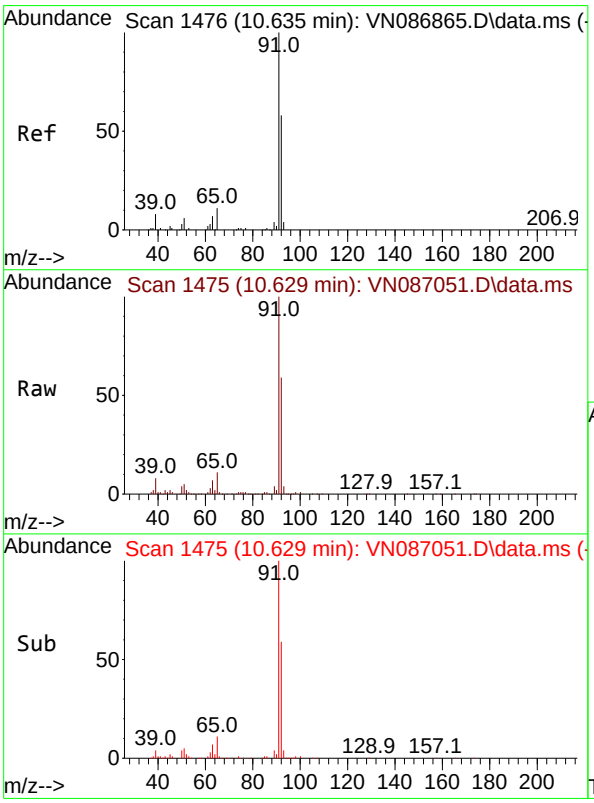
#51
4-Methyl-2-Pentanone
Concen: 93.145 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 43 Resp: 284888

Ion	Ratio	Lower	Upper
43	100		
58	44.6	34.2	51.4

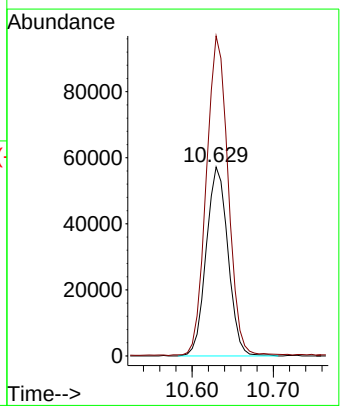


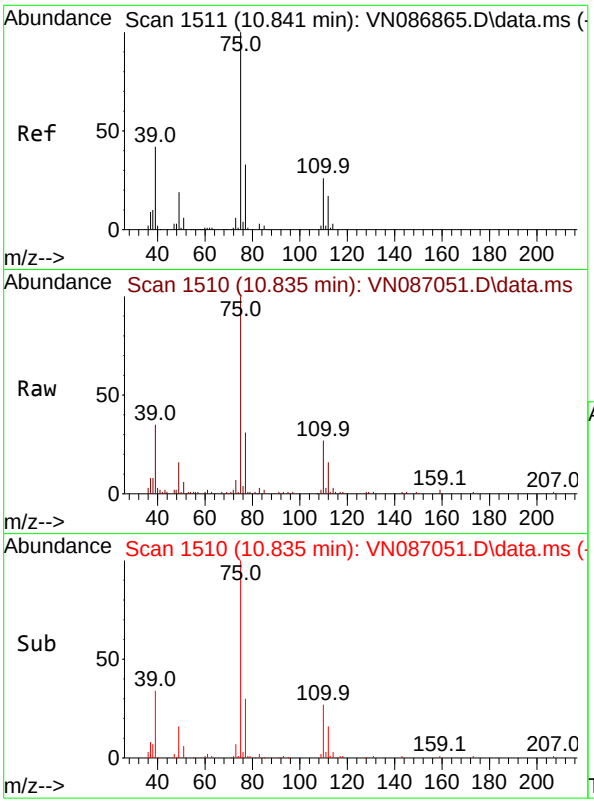


#52
Toluene
Concen: 21.448 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 92 Resp: 106583

Ion	Ratio	Lower	Upper
92	100		
91	169.4	136.5	204.7



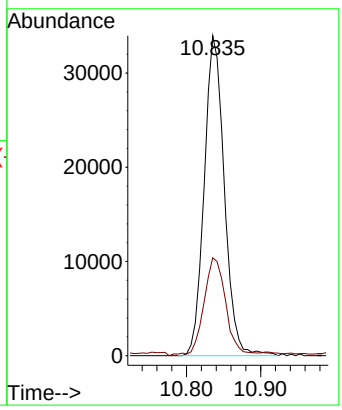


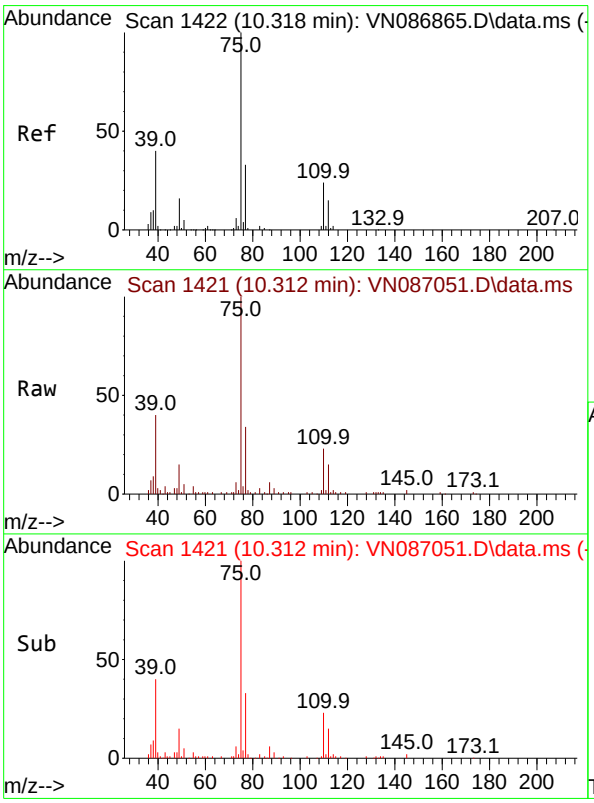
#53
t-1,3-Dichloropropene
Concen: 21.153 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 75 Resp: 63945

Ion	Ratio	Lower	Upper
75	100		
77	30.1	26.4	39.6

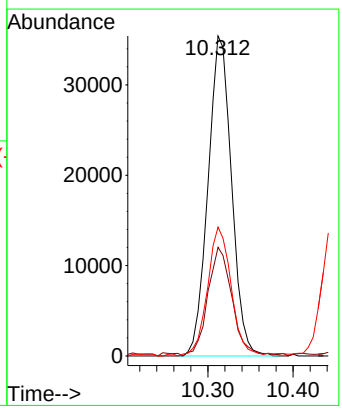


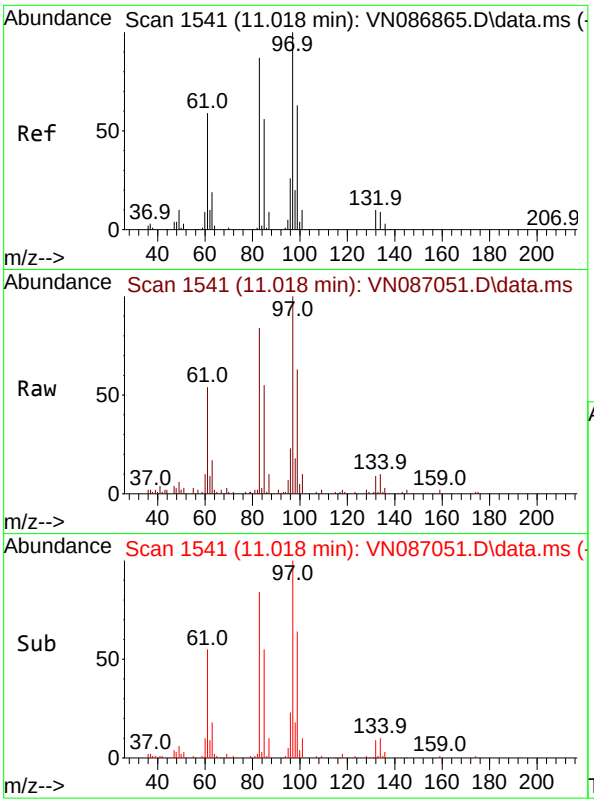


#54
cis-1,3-Dichloropropene
Concen: 20.978 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 75 Resp: 67853

Ion	Ratio	Lower	Upper
75	100		
77	33.5	26.2	39.4
39	40.3	32.3	48.5



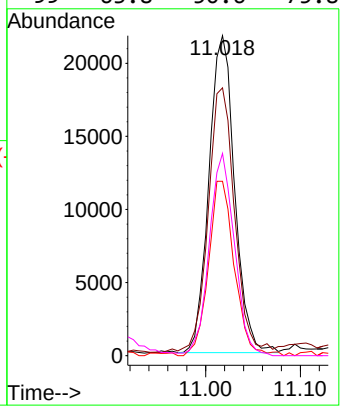


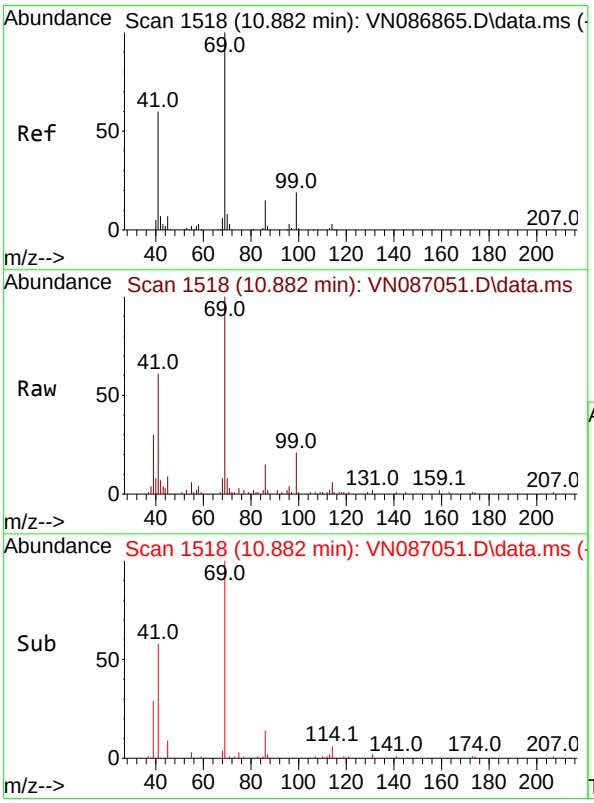
#55
1,1,2-Trichloroethane
Concen: 21.429 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 97 Resp: 40974

Ion	Ratio	Lower	Upper
97	100		
83	83.0	69.7	104.5
85	55.0	45.1	67.7
99	63.8	50.6	75.8

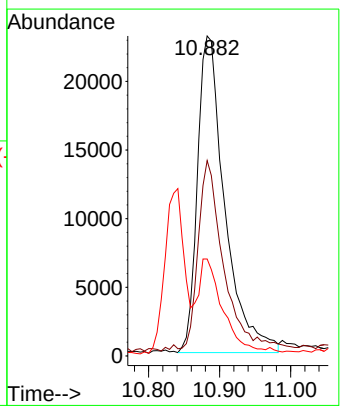


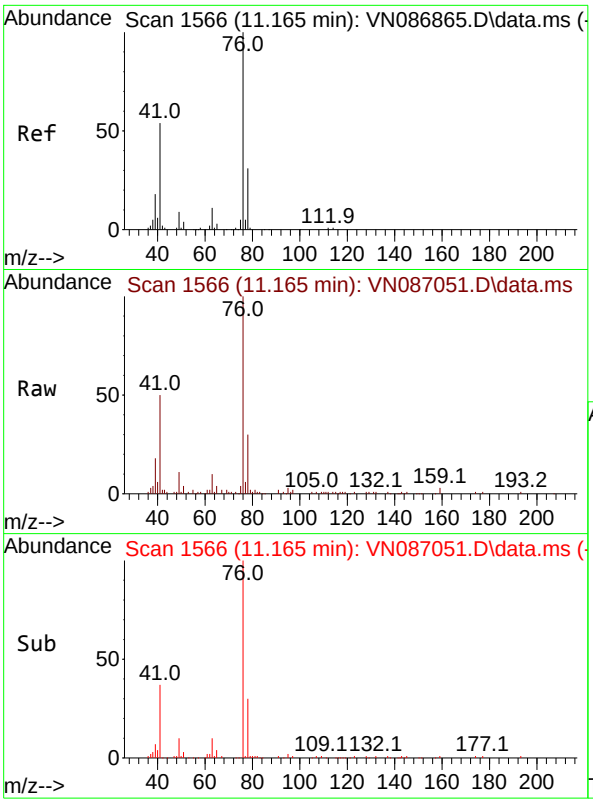


#56
Ethyl methacrylate
Concen: 20.278 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 69 Resp: 61756

Ion	Ratio	Lower	Upper
69	100		
41	54.4	47.2	70.8
39	23.8	23.0	34.6



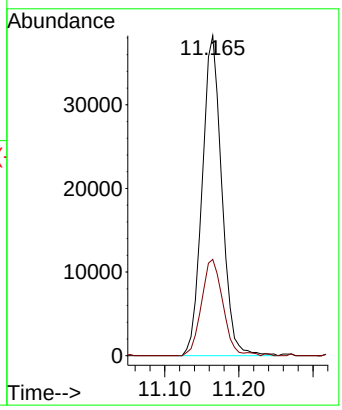


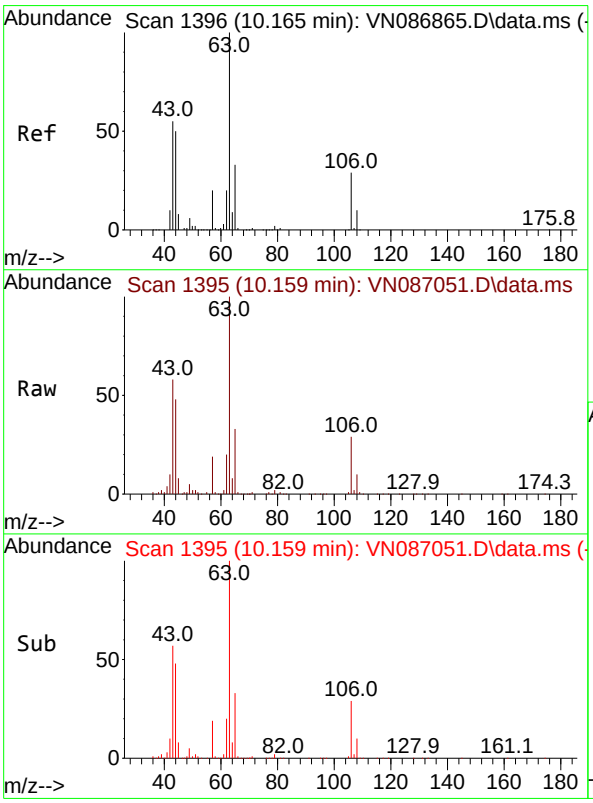
#57
1,3-Dichloropropane
Concen: 21.180 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 76 Resp: 70252

Ion	Ratio	Lower	Upper
76	100		
78	32.9	25.3	37.9

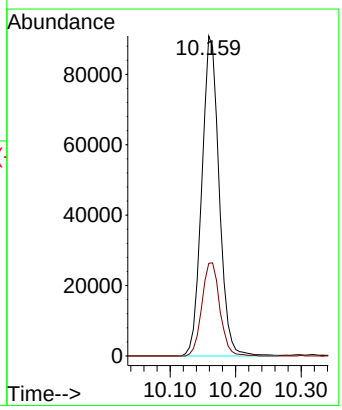


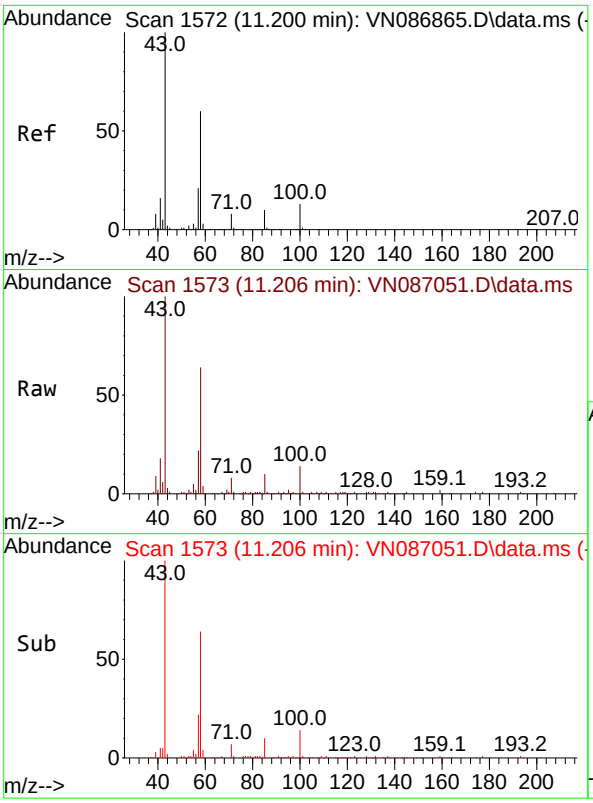


#58
2-Chloroethyl Vinyl ether
Concen: 92.171 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 63 Resp: 167427

Ion	Ratio	Lower	Upper
63	100		
106	30.0	23.0	34.6



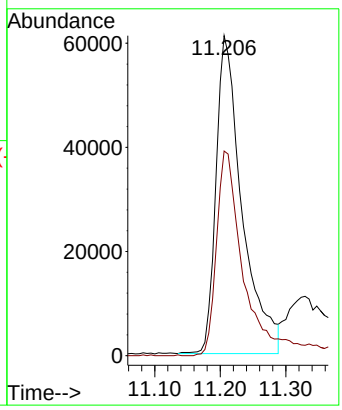


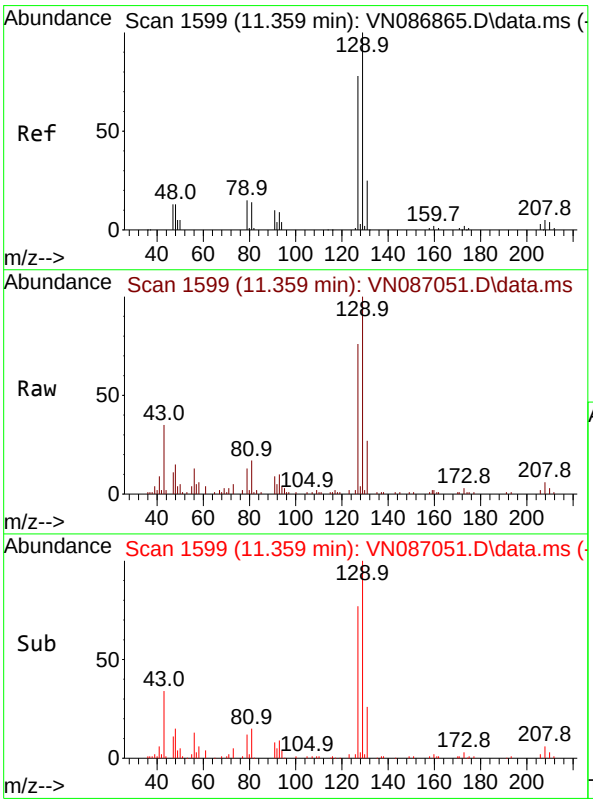
#59
2-Hexanone
Concen: 85.432 ug/l
RT: 11.206 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 43 Resp: 168311

Ion	Ratio	Lower	Upper
43	100		
58	66.2	30.4	91.3

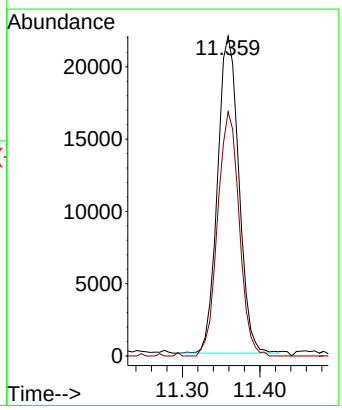


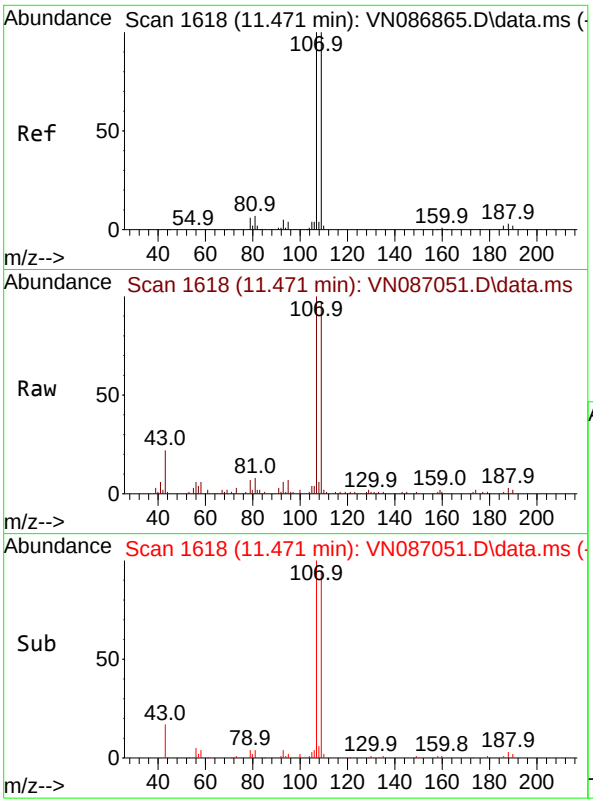


#60
Dibromochloromethane
Concen: 21.087 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:129 Resp: 42009

Ion	Ratio	Lower	Upper
129	100		
127	77.7	38.6	115.8



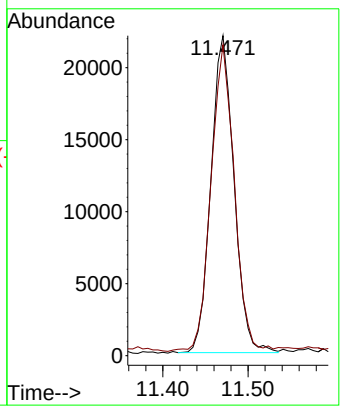


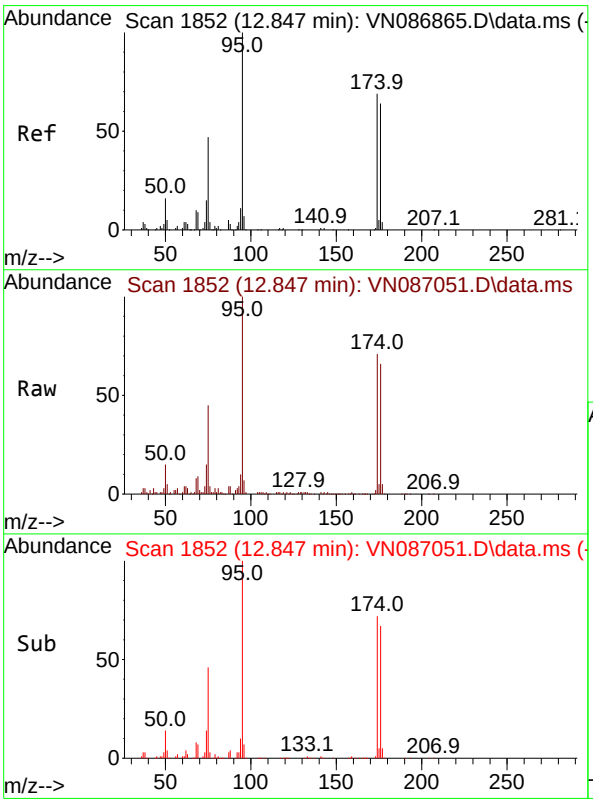
#61
1,2-Dibromoethane
Concen: 21.135 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:107 Resp: 41422

Ion	Ratio	Lower	Upper
107	100		
109	98.0	76.3	114.5

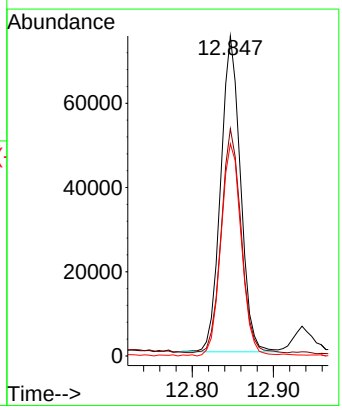


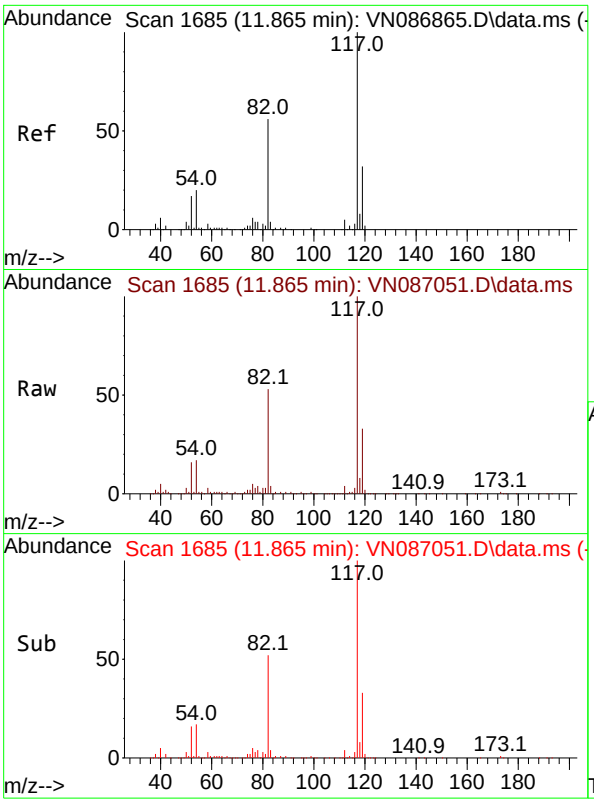


#62
4-Bromofluorobenzene
Concen: 51.754 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 95 Resp: 127024

Ion	Ratio	Lower	Upper
95	100		
174	71.2	0.0	141.8
176	69.4	0.0	132.6



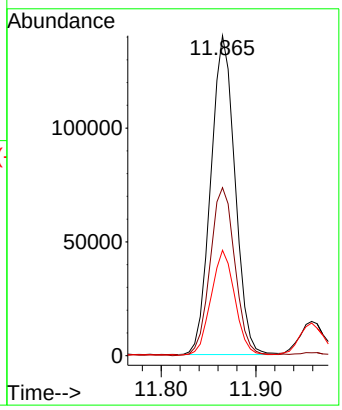


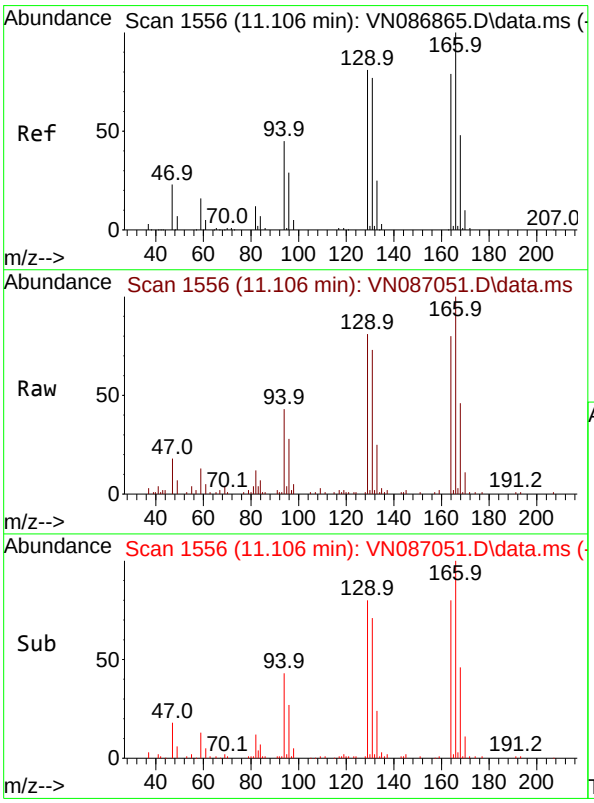
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:117 Resp: 248700

Ion	Ratio	Lower	Upper
117	100		
82	52.6	44.6	67.0
119	32.9	25.5	38.3

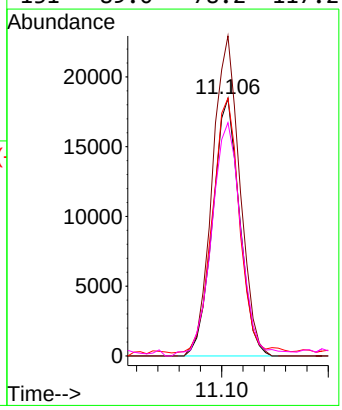


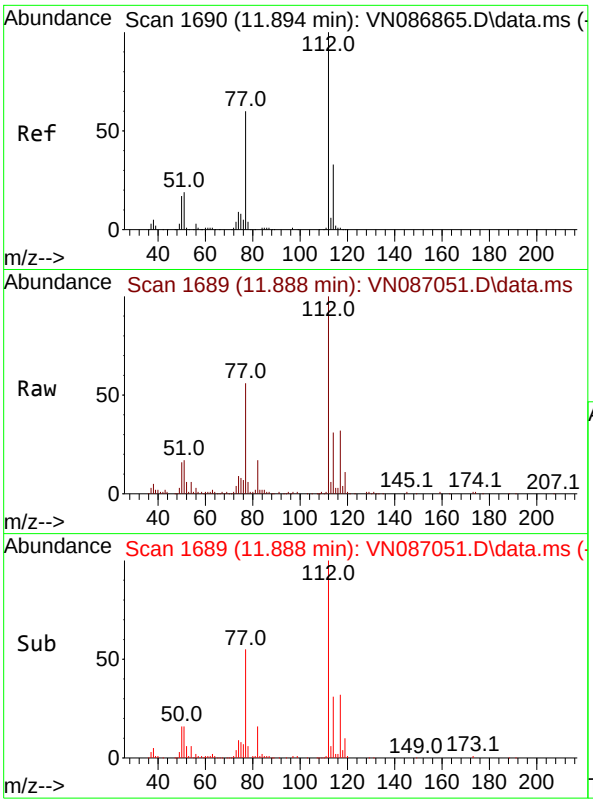


#64
Tetrachloroethene
Concen: 20.459 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:164 Resp: 32201

Ion	Ratio	Lower	Upper
164	100		
166	124.3	101.8	152.8
129	98.7	83.0	124.4
131	89.0	78.2	117.2



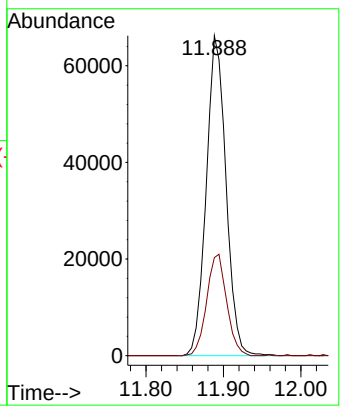


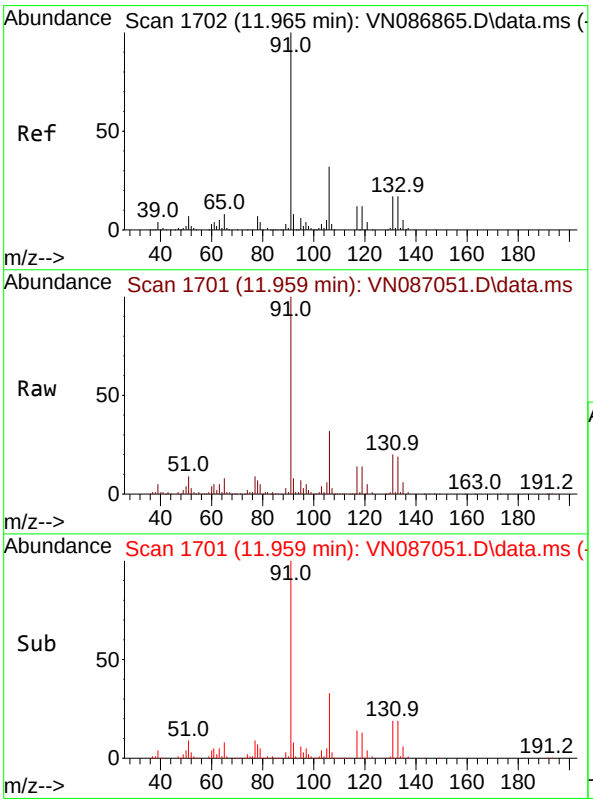
#65
Chlorobenzene
Concen: 21.333 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:112 Resp: 117016

Ion	Ratio	Lower	Upper
112	100		
114	30.6	26.2	39.2

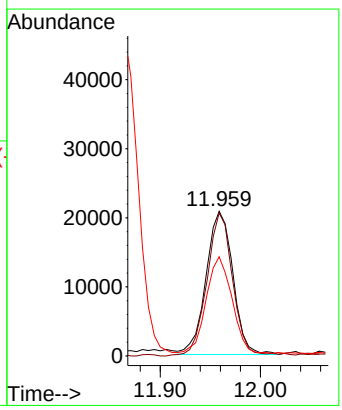


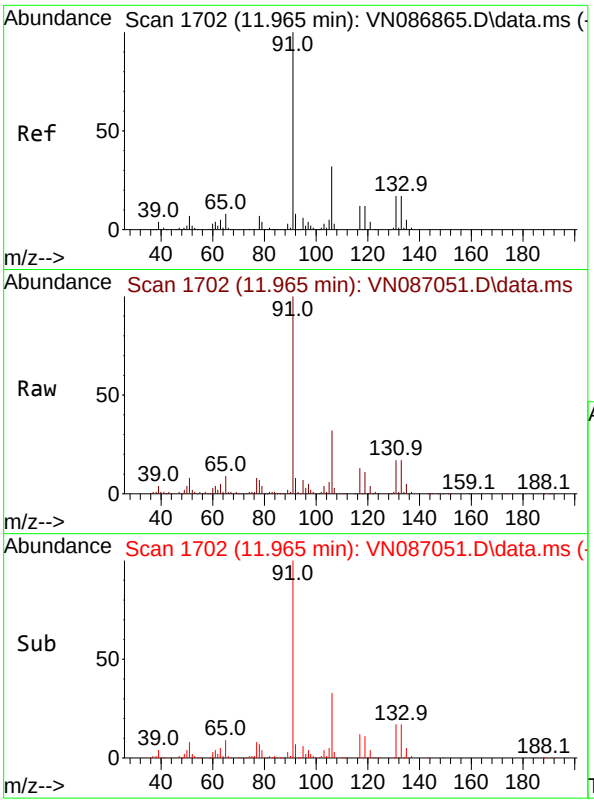


#66
1,1,1,2-Tetrachloroethane
Concen: 21.939 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:131 Resp: 38683

Ion	Ratio	Lower	Upper
131	100		
133	96.3	48.3	144.8
119	64.7	34.0	101.8



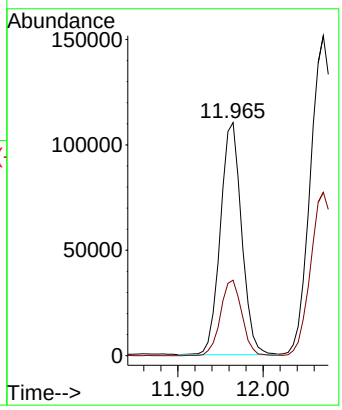


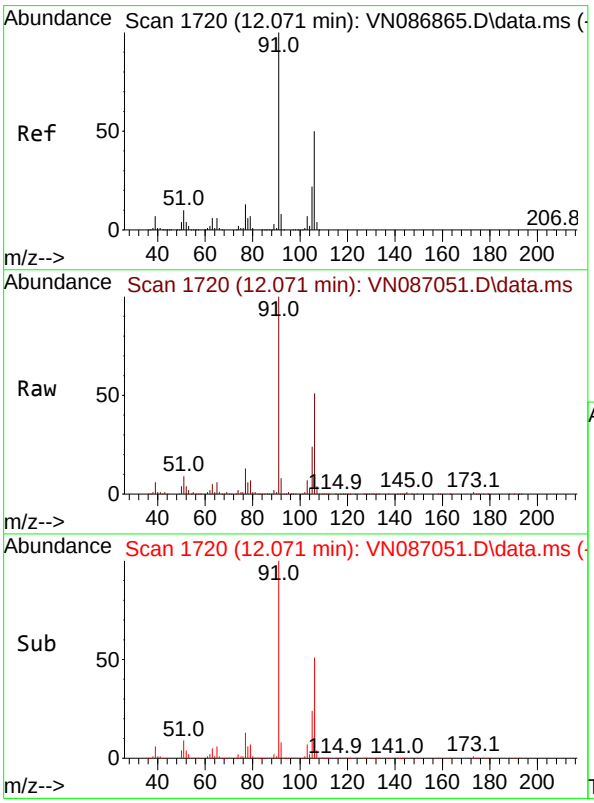
#67
Ethyl Benzene
Concen: 20.235 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 91 Resp: 191185

Ion	Ratio	Lower	Upper
91	100		
106	32.6	25.4	38.2

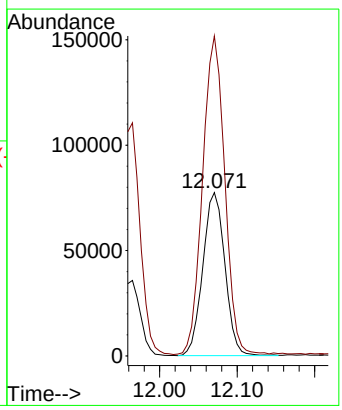


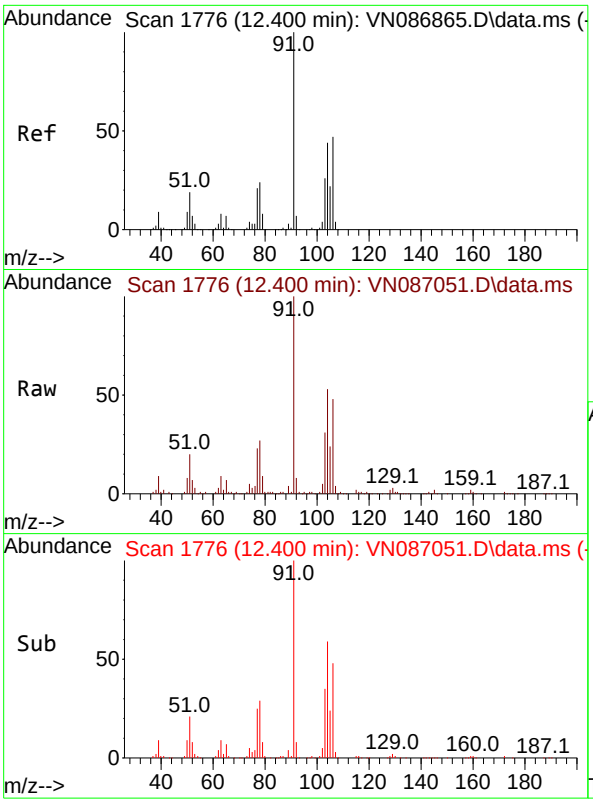


#68
m/p-Xylenes
Concen: 42.393 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:106 Resp: 153323

Ion	Ratio	Lower	Upper
106	100		
91	195.8	159.4	239.0



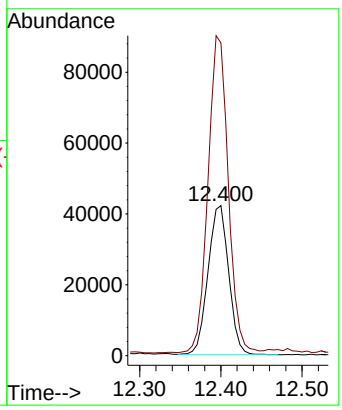


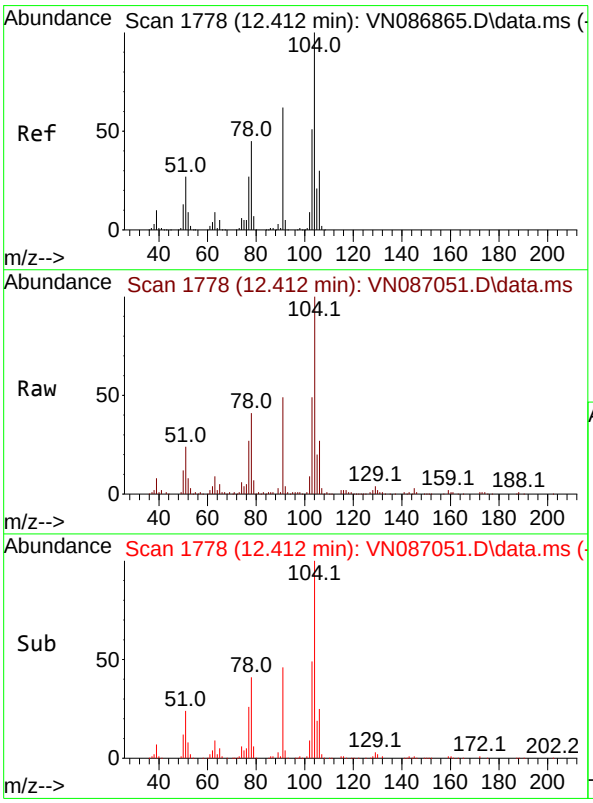
#69
o-Xylene
Concen: 21.564 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:106 Resp: 74694

Ion	Ratio	Lower	Upper
106	100		
91	207.7	106.1	318.1

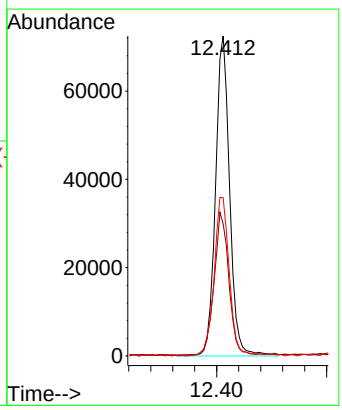


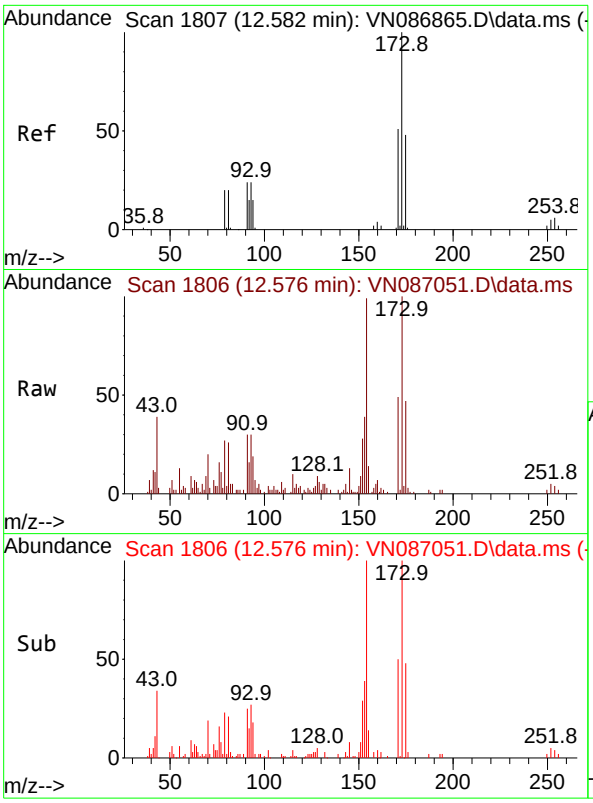


#70
Styrene
Concen: 21.862 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:104 Resp: 129584

Ion	Ratio	Lower	Upper
104	100		
78	46.1	38.5	57.7
103	53.0	43.1	64.7



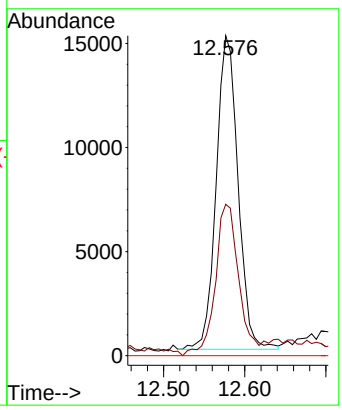


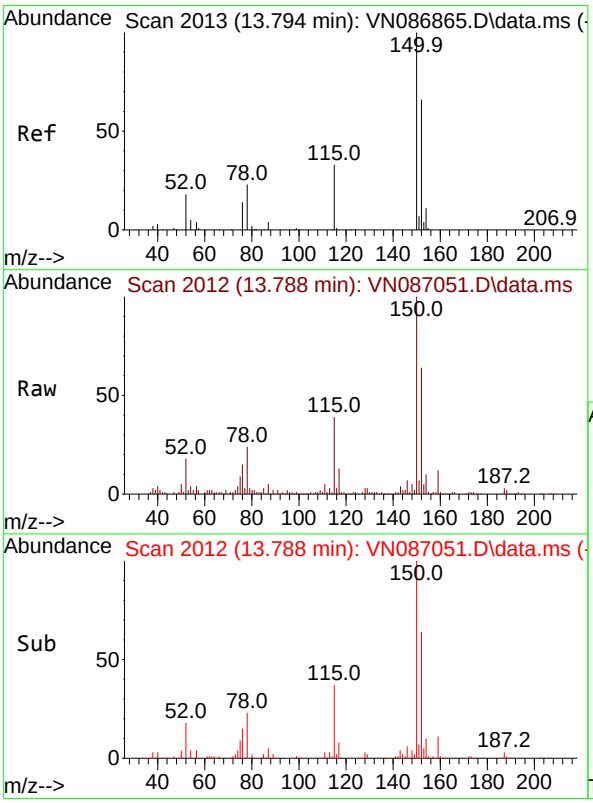
#71
Bromoform
Concen: 21.592 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:173 Resp: 28209

Ion	Ratio	Lower	Upper
173	100		
175	51.6	24.1	72.4
254	0.0	0.0	0.0

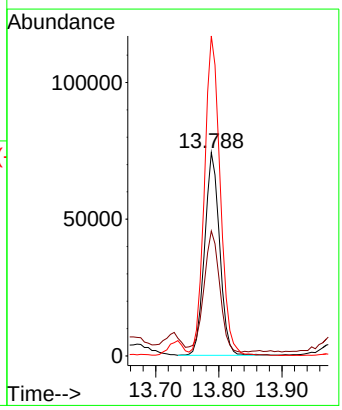


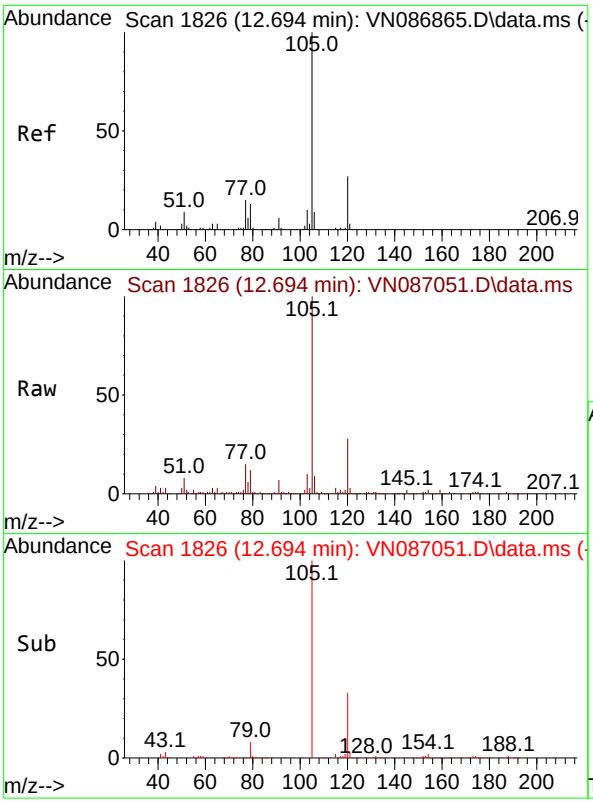


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:152 Resp: 122529

Ion	Ratio	Lower	Upper
152	100		
115	62.2	30.1	90.5
150	165.2	0.0	345.0



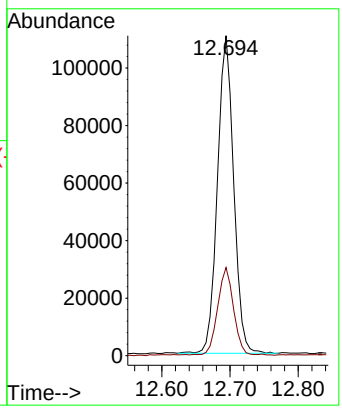


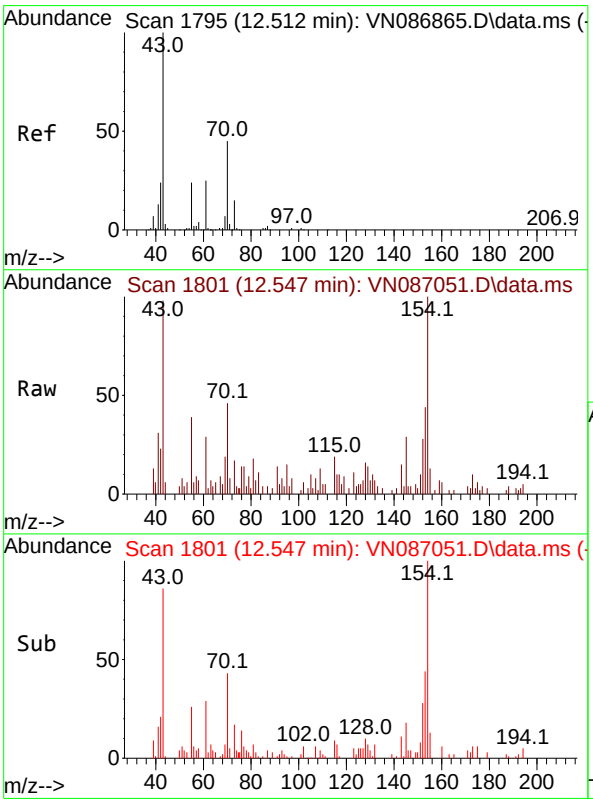
#73
Isopropylbenzene
Concen: 20.505 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:105 Resp: 183037

Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.5	40.4

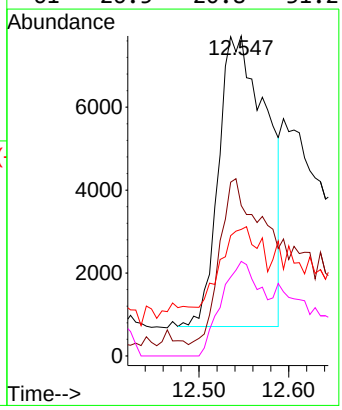


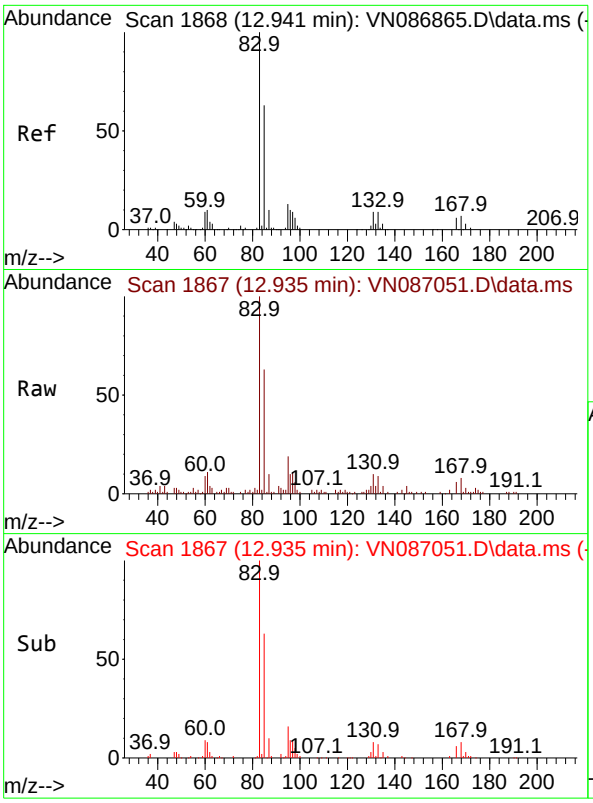


#74
N-amyl acetate
Concen: 8.376 ug/l
RT: 12.547 min Scan# 1801
Delta R.T. 0.035 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 43 Resp: 26127

Ion	Ratio	Lower	Upper
43	100		
70	59.9	37.6	56.4#
55	22.4	19.0	28.6
61	26.5	20.8	31.2



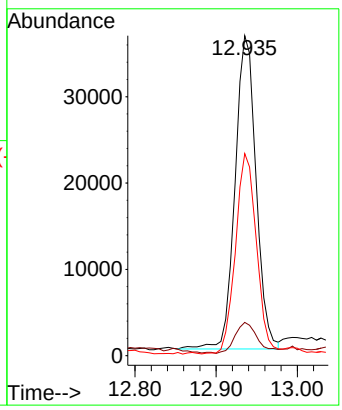


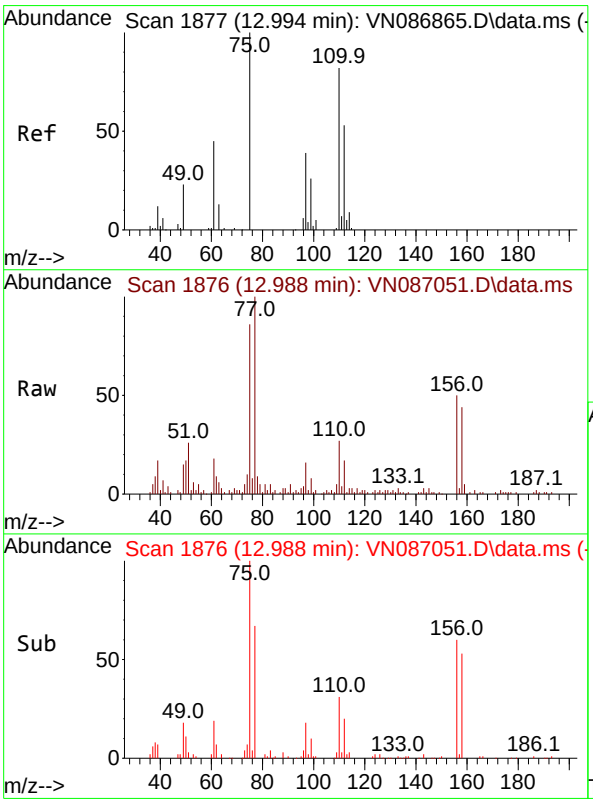
#75
1,1,2,2-Tetrachloroethane
Concen: 21.484 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 83 Resp: 64970

Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.9	14.7
85	64.2	32.0	96.0

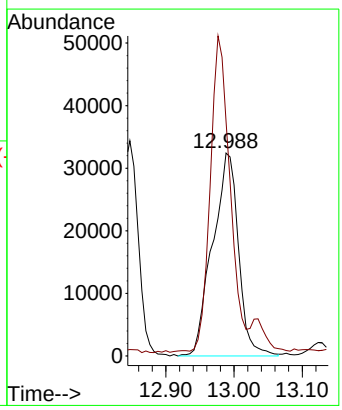


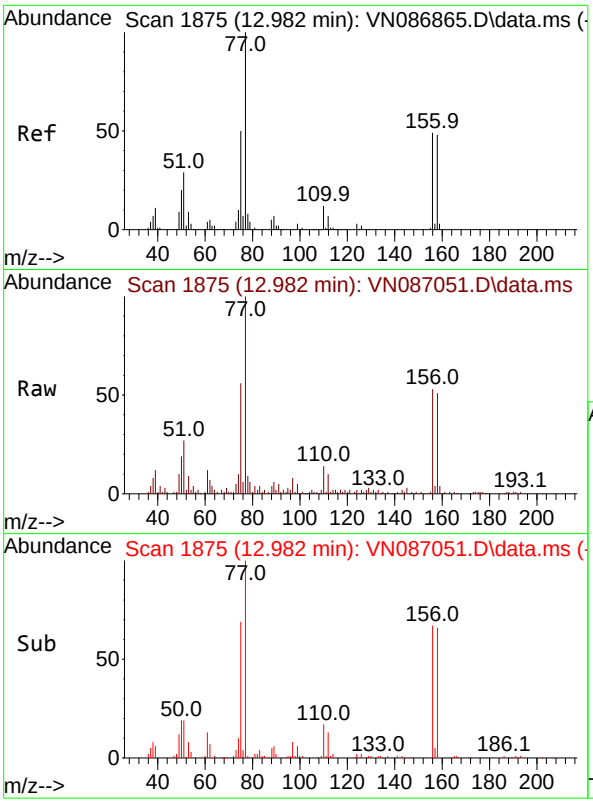


#76
1,2,3-Trichloropropane
Concen: 29.442 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 75 Resp: 85752

Ion	Ratio	Lower	Upper
75	100		
77	118.6	79.3	237.9



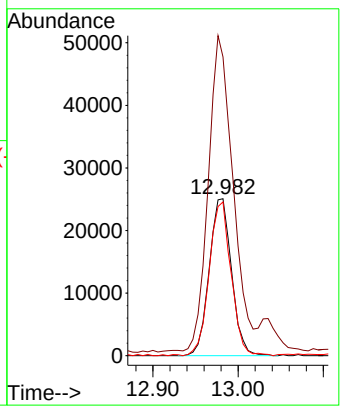


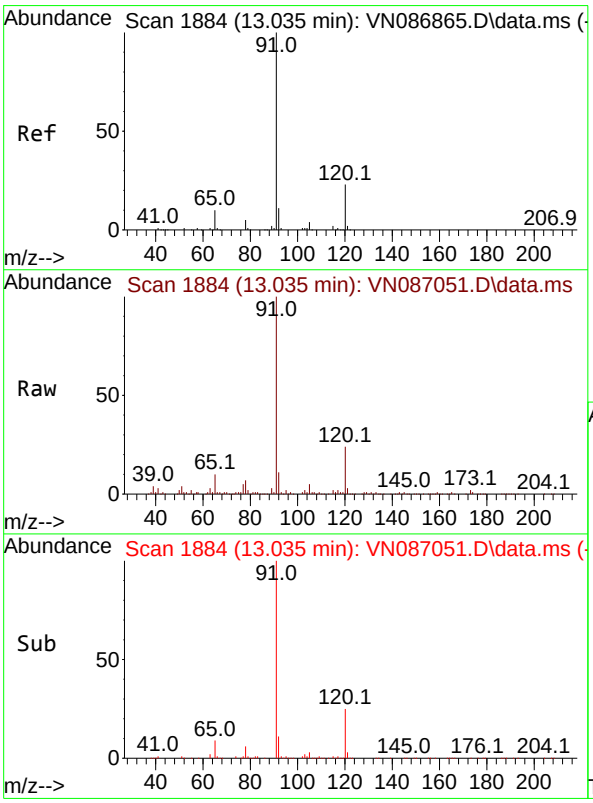
#77
Bromobenzene
Concen: 22.254 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:156 Resp: 45556

Ion	Ratio	Lower	Upper
156	100		
77	223.2	117.7	353.1
158	96.6	48.1	144.4

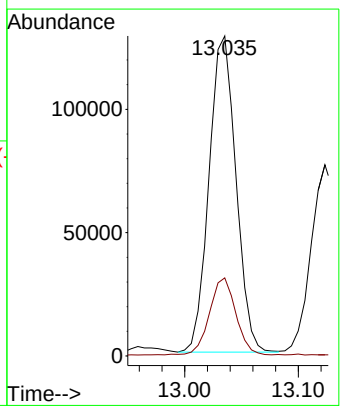


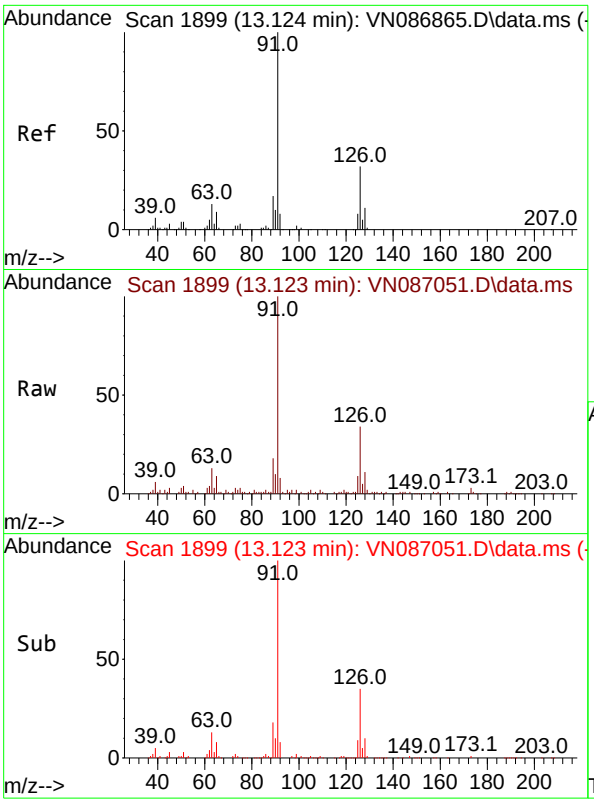


#78
n-propylbenzene
Concen: 19.492 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 91 Resp: 211448

Ion	Ratio	Lower	Upper
91	100		
120	24.7	11.4	34.2



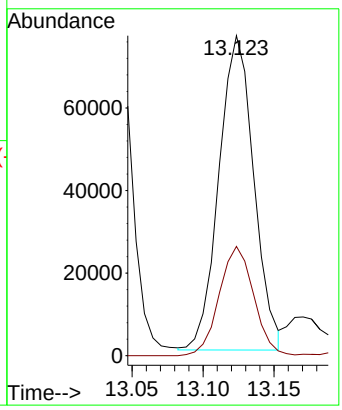


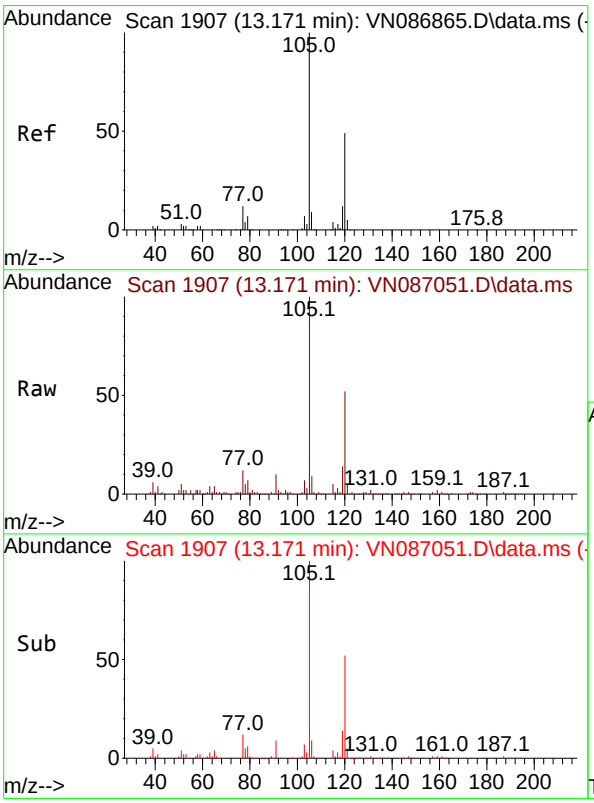
#79
2-Chlorotoluene
Concen: 19.991 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 91 Resp: 130050

Ion	Ratio	Lower	Upper
91	100		
126	34.5	16.2	48.5

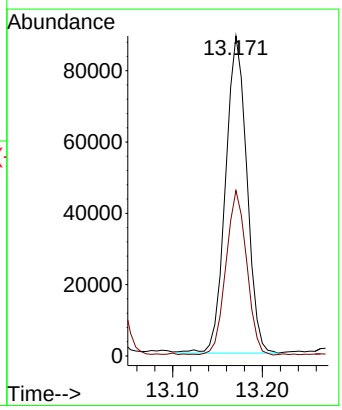


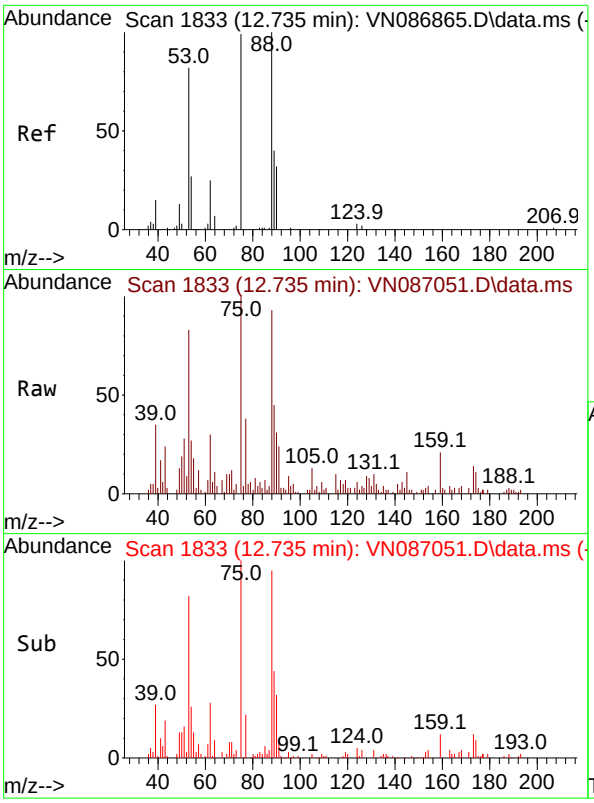


#80
1,3,5-Trimethylbenzene
Concen: 19.853 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:105 Resp: 146312

Ion	Ratio	Lower	Upper
105	100		
120	50.1	24.9	74.6



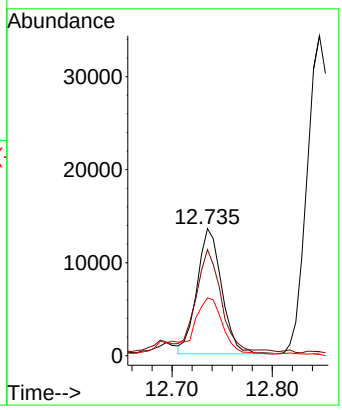


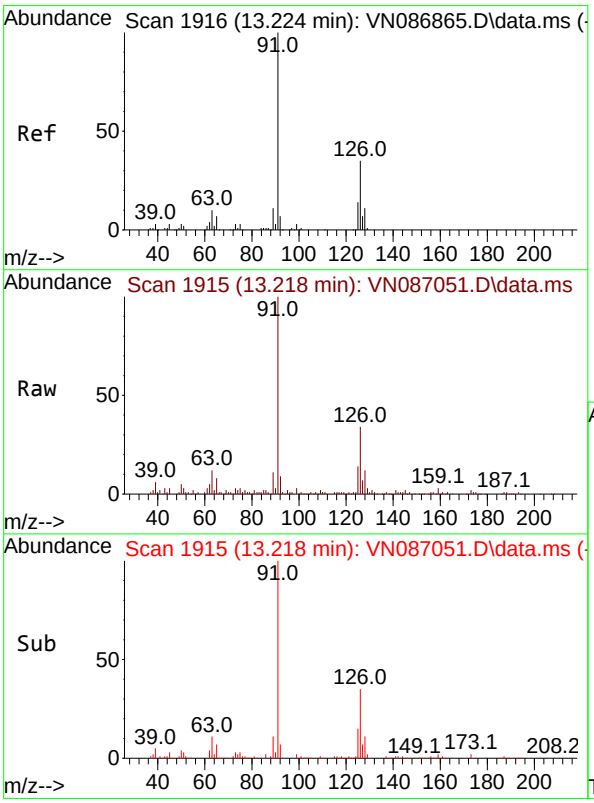
#81
trans-1,4-Dichloro-2-butene
Concen: 18.159 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 75 Resp: 22976

Ion	Ratio	Lower	Upper
75	100		
53	84.5	66.6	99.8
89	61.8	36.7	55.1#

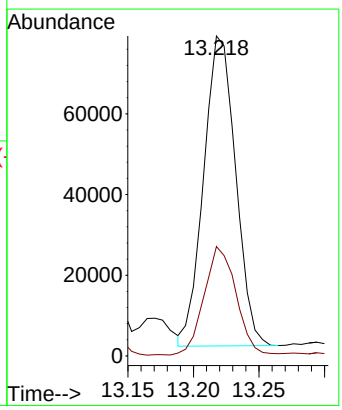


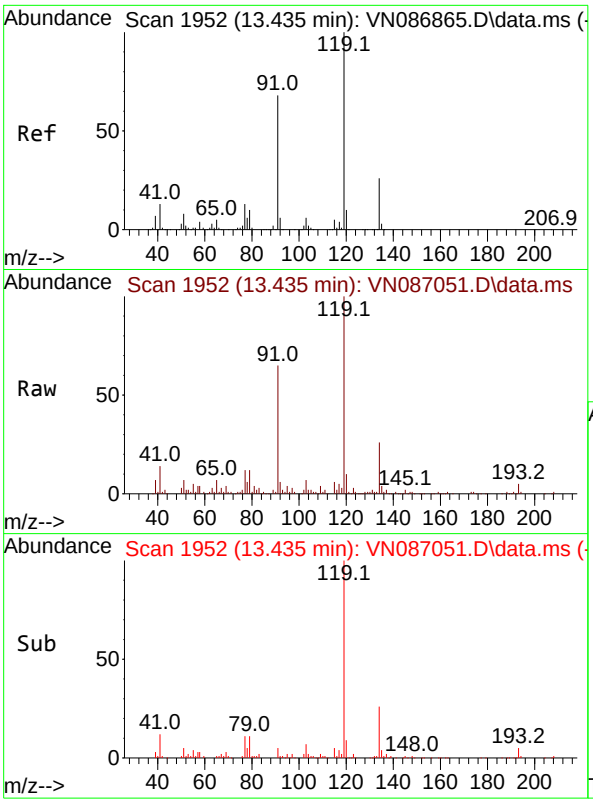


#82
4-Chlorotoluene
Concen: 19.795 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 91 Resp: 130303

Ion	Ratio	Lower	Upper
91	100		
126	35.6	16.7	50.1



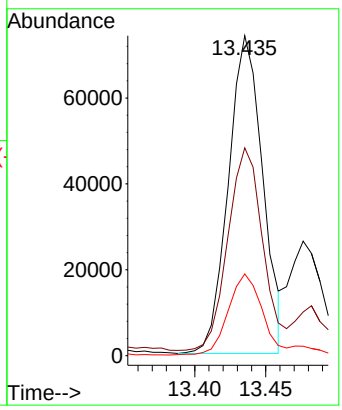


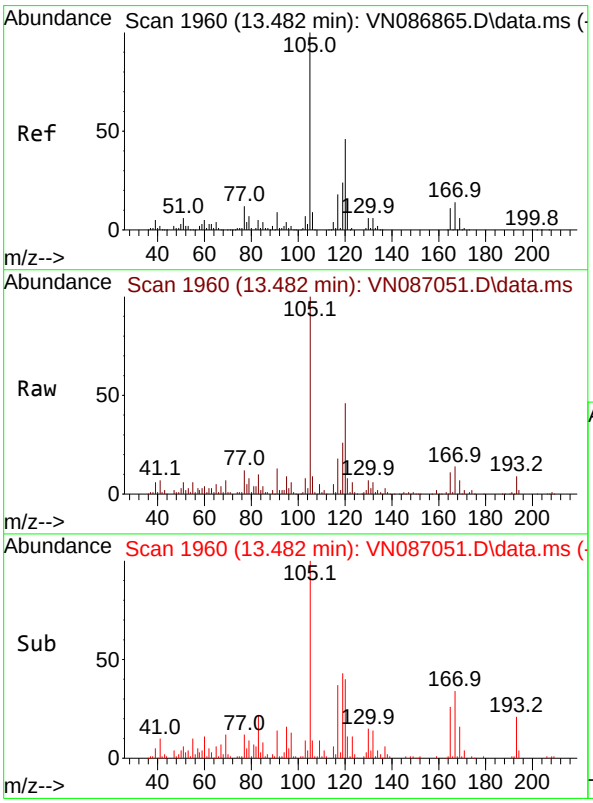
#83
tert-Butylbenzene
Concen: 18.462 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:119 Resp: 124546

Ion	Ratio	Lower	Upper
119	100		
91	64.8	32.1	96.5
134	25.0	13.4	40.1

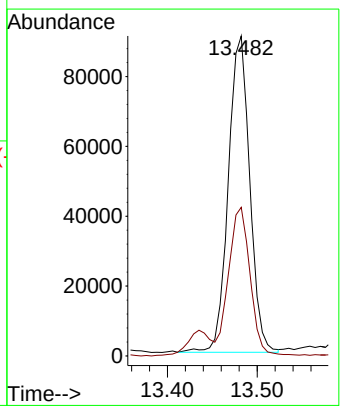


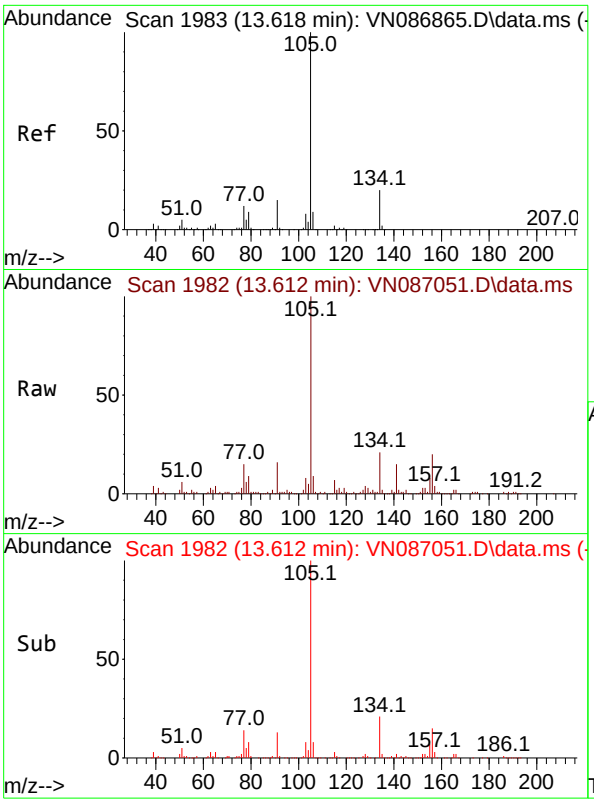


#84
1,2,4-Trimethylbenzene
Concen: 20.334 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:105 Resp: 150274

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.2	69.6



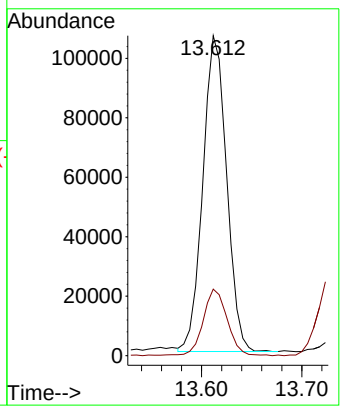


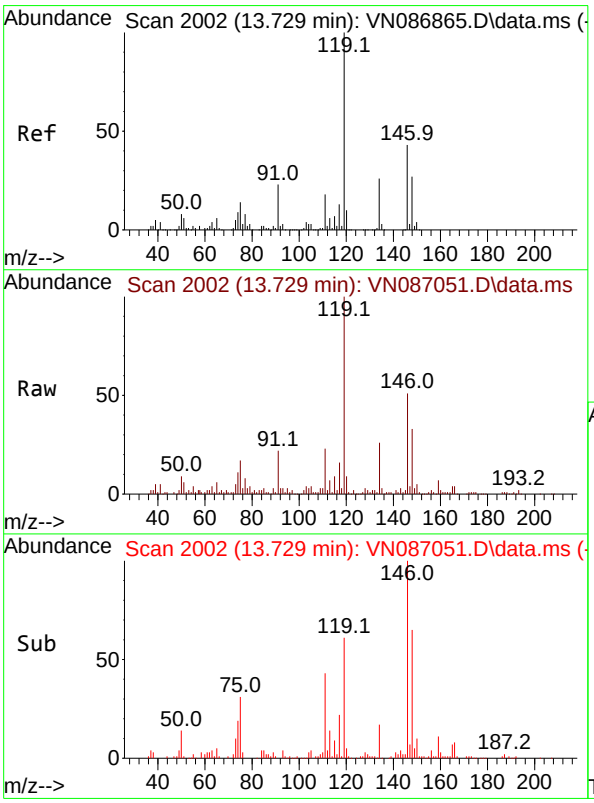
#85
sec-Butylbenzene
Concen: 17.887 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:105 Resp: 175237

Ion	Ratio	Lower	Upper
105	100		
134	21.5	10.0	30.0

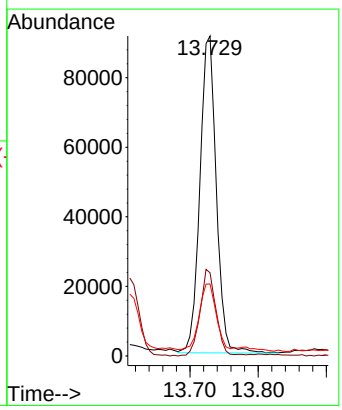


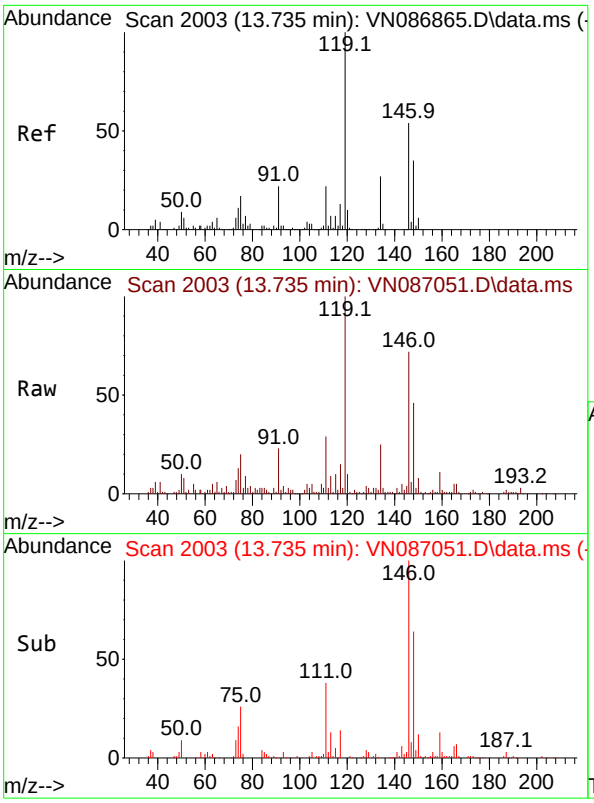


#86
p-Isopropyltoluene
Concen: 18.841 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:119 Resp: 152581

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.5	40.4
91	22.2	11.5	34.4



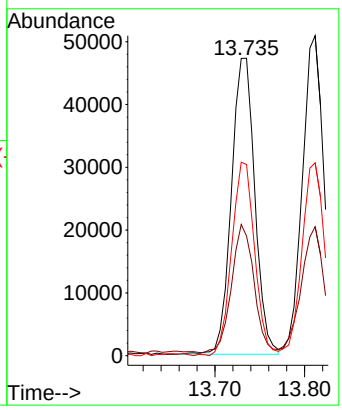


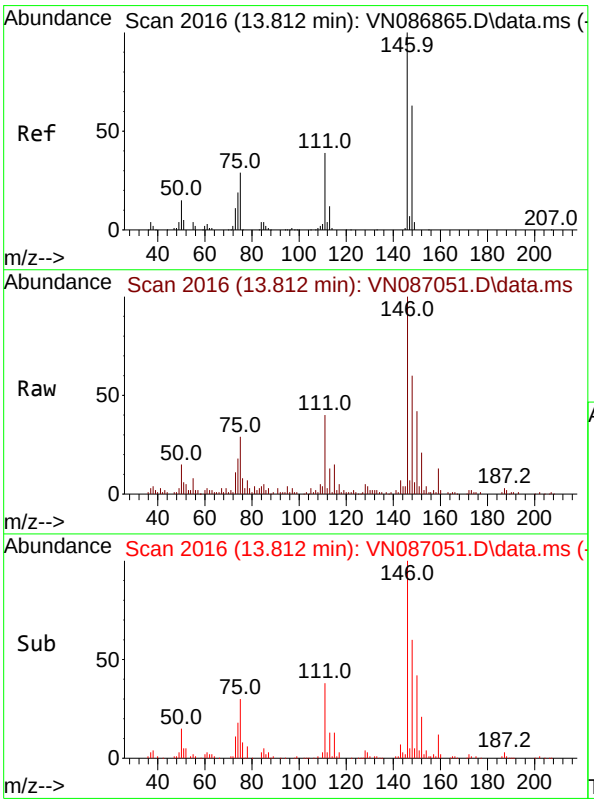
#87
1,3-Dichlorobenzene
Concen: 21.216 ug/l
RT: 13.735 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:146 Resp: 85450

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.9	62.8
148	64.2	32.0	96.2

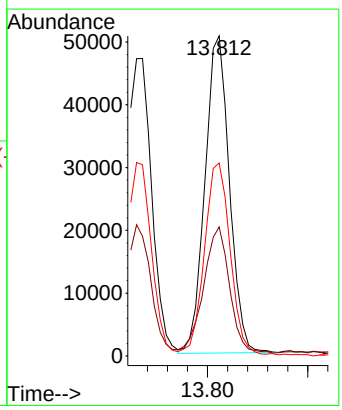


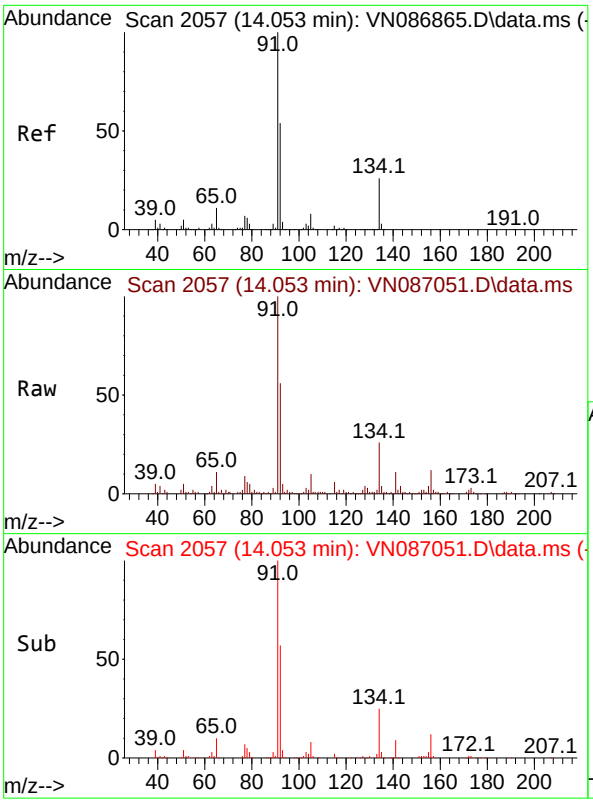


#88
1,4-Dichlorobenzene
Concen: 20.893 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:146 Resp: 85795

Ion	Ratio	Lower	Upper
146	100		
111	41.8	19.9	59.7
148	65.2	31.8	95.4



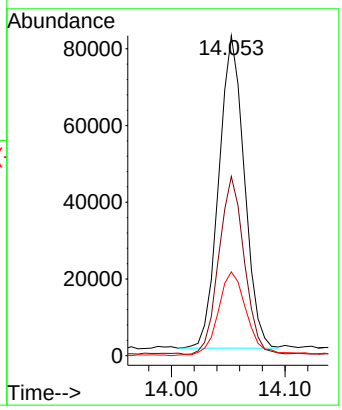


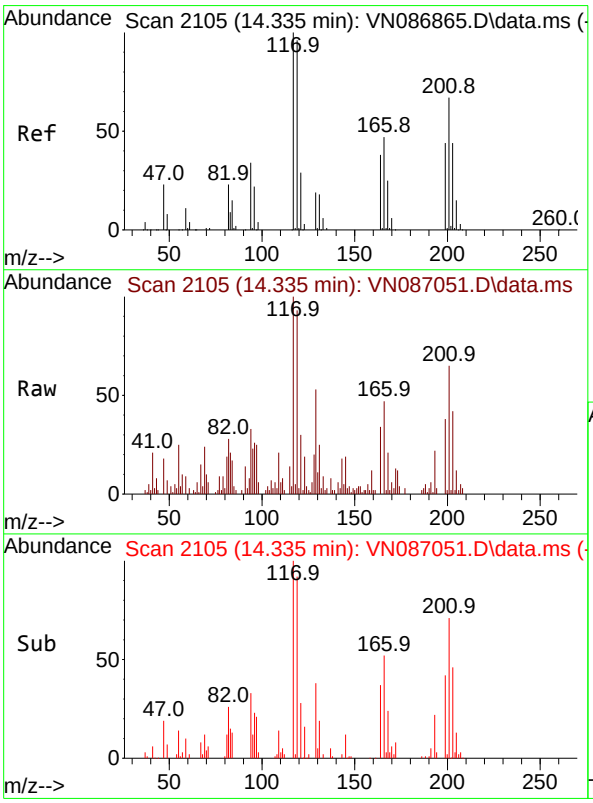
#89
n-Butylbenzene
Concen: 16.188 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion: 91 Resp: 126981

Ion	Ratio	Lower	Upper
91	100		
92	56.6	27.5	82.4
134	30.8	13.0	39.0

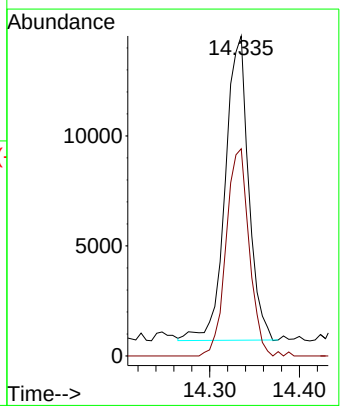


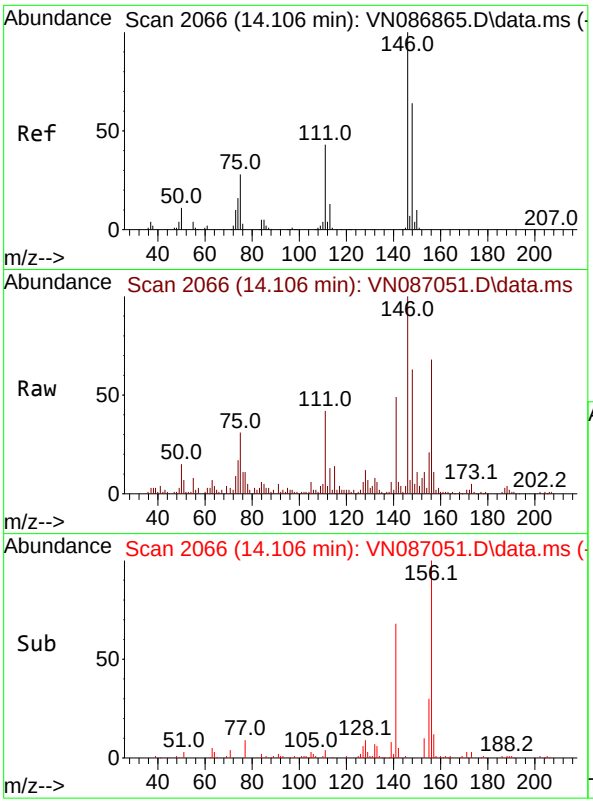


#90
Hexachloroethane
Concen: 18.160 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:117 Resp: 24929

Ion	Ratio	Lower	Upper
117	100		
201	67.0	33.2	99.6



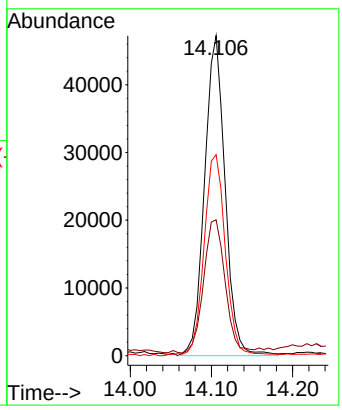


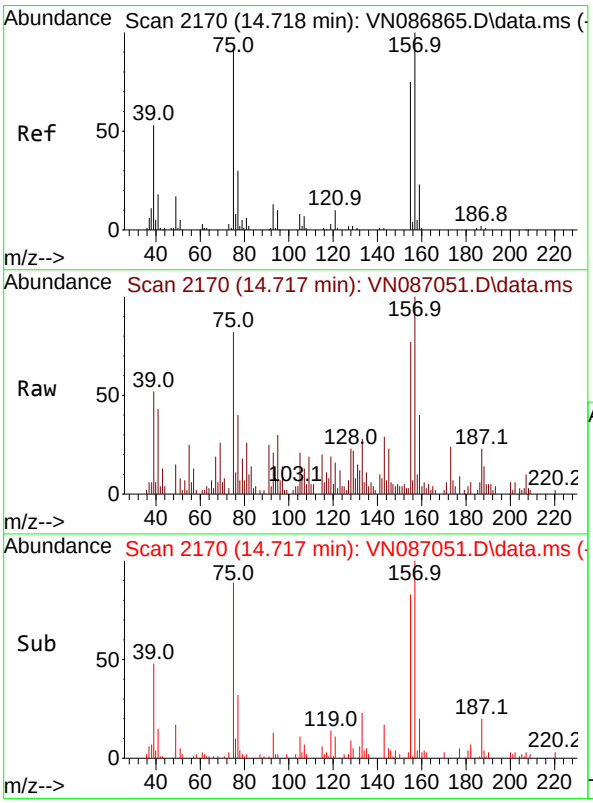
#91
1,2-Dichlorobenzene
Concen: 21.467 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:146 Resp: 83067

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.6	64.6
148	65.7	31.7	95.1

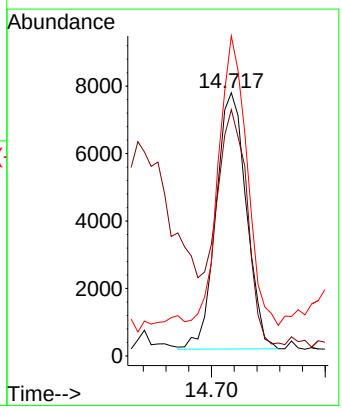


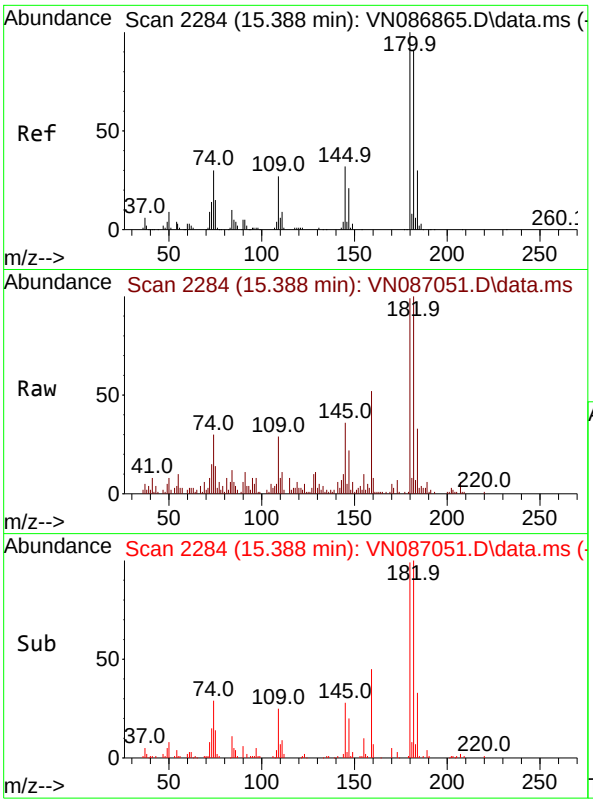


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.510 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion: 75 Resp: 14110

Ion	Ratio	Lower	Upper
75	100		
155	95.6	41.1	123.4
157	105.5	52.7	158.1



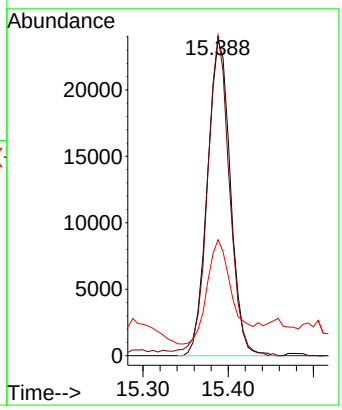


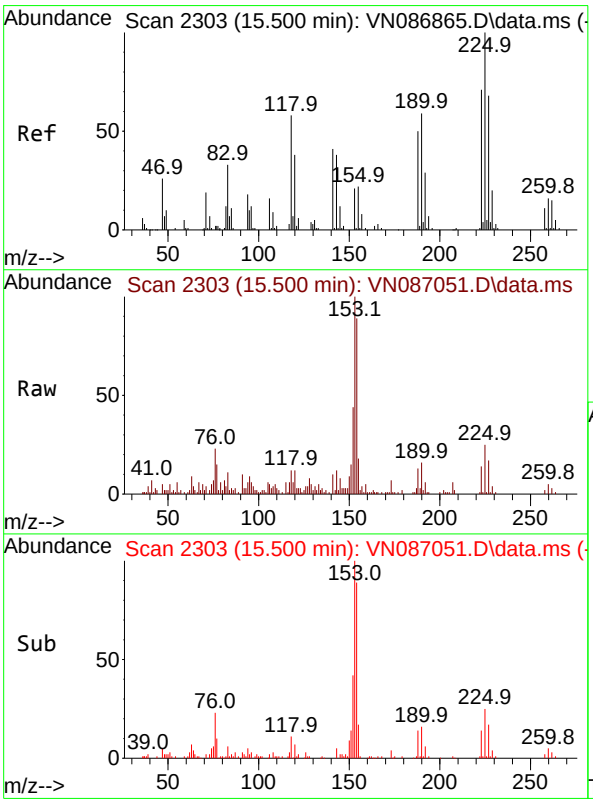
#93
1,2,4-Trichlorobenzene
Concen: 17.983 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:180 Resp: 44436

Ion	Ratio	Lower	Upper
180	100		
182	98.0	46.9	140.7
145	36.0	16.0	47.9

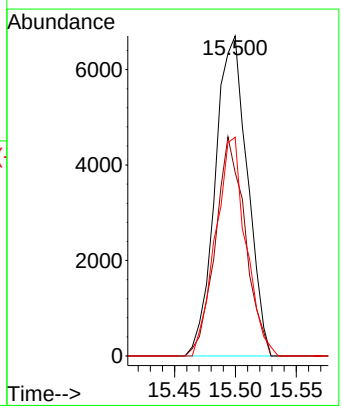


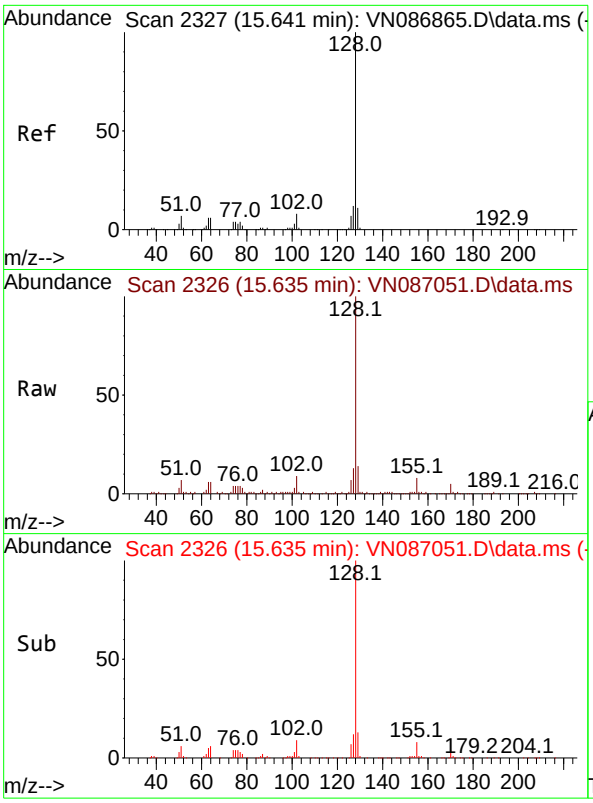


#94
Hexachlorobutadiene
Concen: 13.396 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:225 Resp: 12332

Ion	Ratio	Lower	Upper
225	100		
223	63.5	33.5	100.4
227	64.5	31.1	93.5



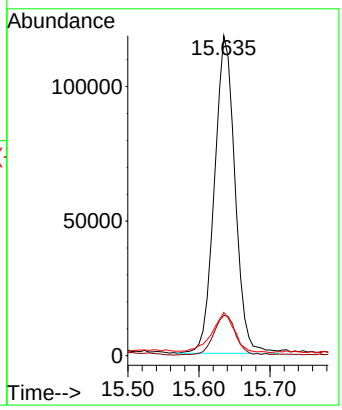


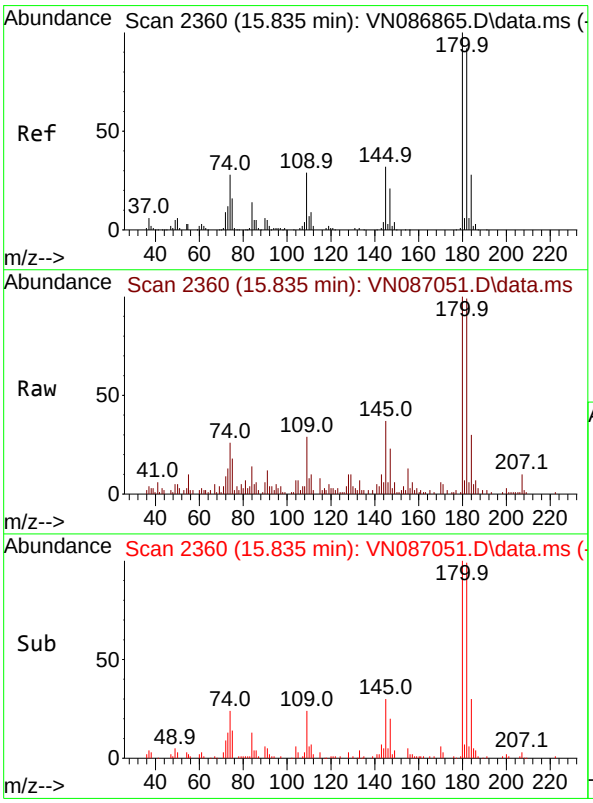
#95
Naphthalene
Concen: 25.772 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Instrument :
MSVOA_N
ClientSampleId :
VN0617WBS01

Tgt Ion:128 Resp: 237029

Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.2	15.2
129	14.3	8.8	13.2#

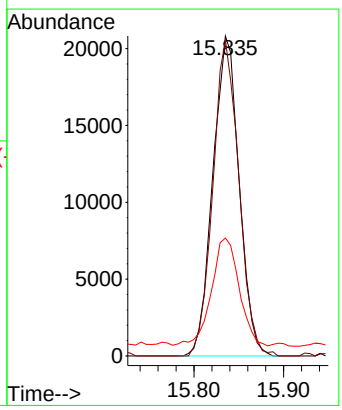




#96
1,2,3-Trichlorobenzene
Concen: 17.214 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087051.D
Acq: 17 Jun 2025 11:59

Tgt Ion:180 Resp: 42260

Ion	Ratio	Lower	Upper
180	100		
182	97.7	47.0	141.0
145	35.6	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087063.D
Acq On : 17 Jun 2025 16:30
Operator : JC\MD
Sample : Q2329-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Quant Time: Jun 18 01:50:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

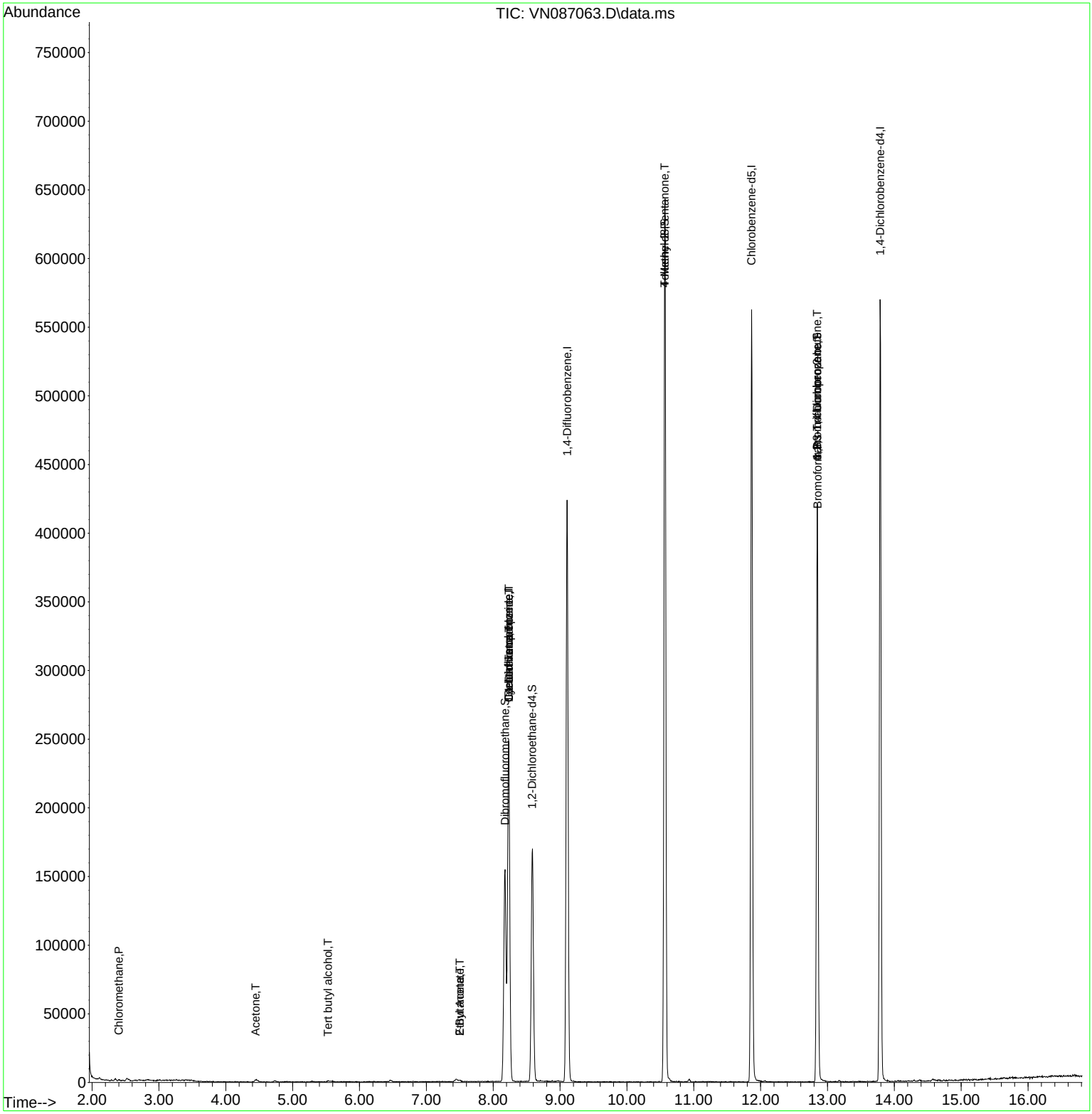
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	200437	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	399463	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	355638	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	167802	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	140788	52.462	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.920%			
35) Dibromofluoromethane	8.177	113	120142	50.750	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.500%			
50) Toluene-d8	10.565	98	486877	51.953	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.900%			
62) 4-Bromofluorobenzene	12.847	95	173023	49.693	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.380%			
Target Compounds						Qvalue
3) Chloromethane	2.401	50	735	0.285	ug/l #	64
11) Tert butyl alcohol	5.530	59	893	1.226	ug/l #	73
16) Acetone	4.448	43	1611	1.132	ug/l	100
25) 2-Butanone	7.500	43	1210	0.523	ug/l	99
31) Cyclohexane	8.236	56	3342	0.768	ug/l #	1
36) 1,1-Dichloropropene	8.236	75	15201	4.309	ug/l #	48
37) Ethyl Acetate	7.500	43	1210	0.269	ug/l #	66
38) Carbon Tetrachloride	8.236	117	19529	5.639	ug/l #	17
51) 4-Methyl-2-Pentanone	10.565	43	1655	0.381	ug/l #	1
71) Bromoform	12.853	173	799	0.428	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	80088	20.079	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	80088	46.220	ug/l #	16

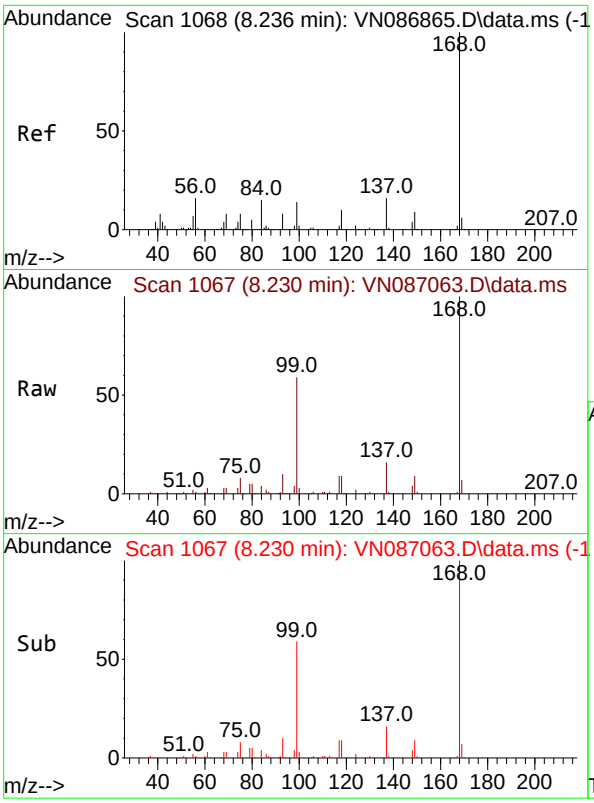
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087063.D
Acq On : 17 Jun 2025 16:30
Operator : JC\MD
Sample : Q2329-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Quant Time: Jun 18 01:50:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



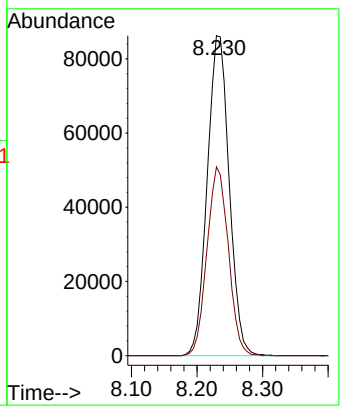


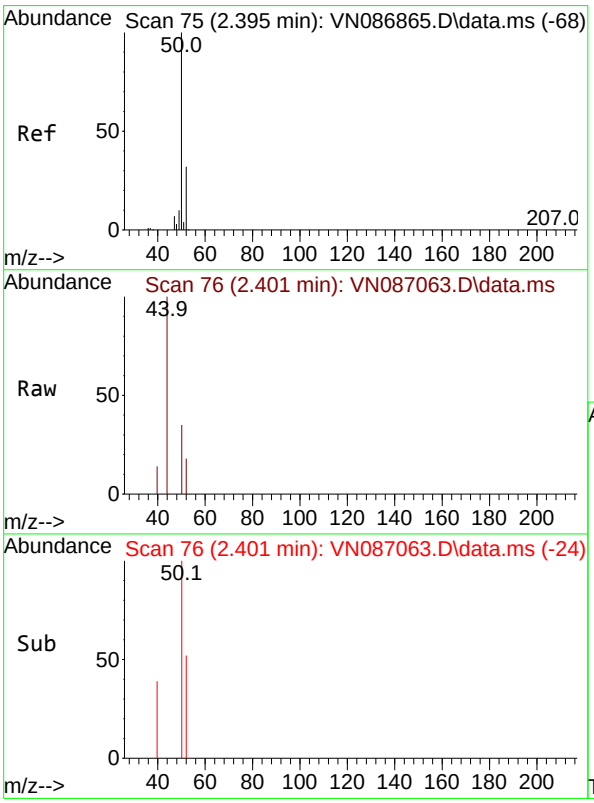
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Tgt Ion:168 Resp: 200437

Ion	Ratio	Lower	Upper
168	100		
99	59.0	49.1	73.7

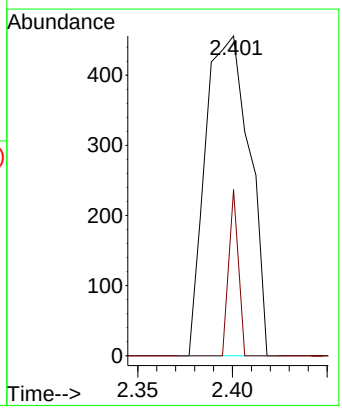


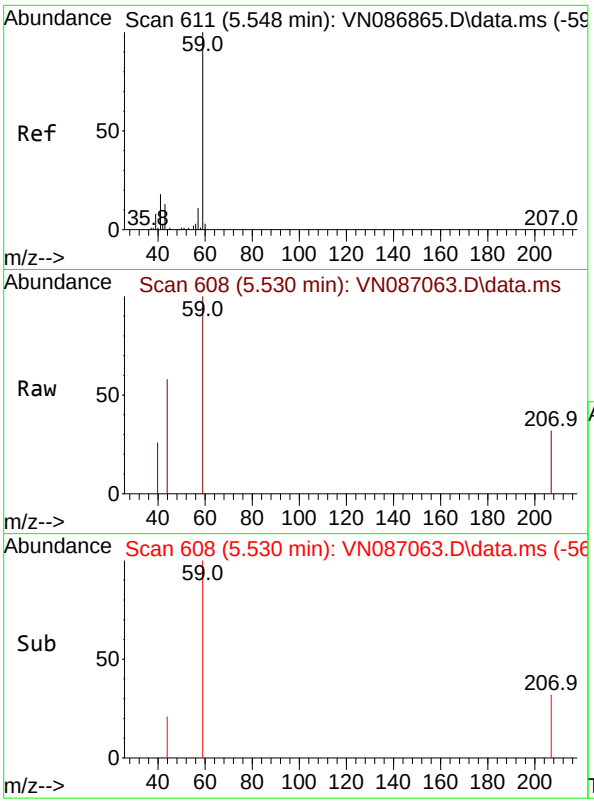


#3
Chloromethane
Concen: 0.285 ug/l
RT: 2.401 min Scan# 76
Delta R.T. 0.006 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion: 50 Resp: 735

Ion	Ratio	Lower	Upper
50	100		
52	52.0	25.7	38.5#



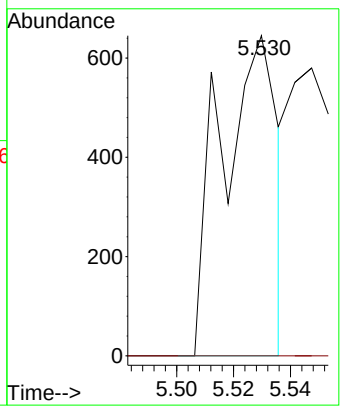


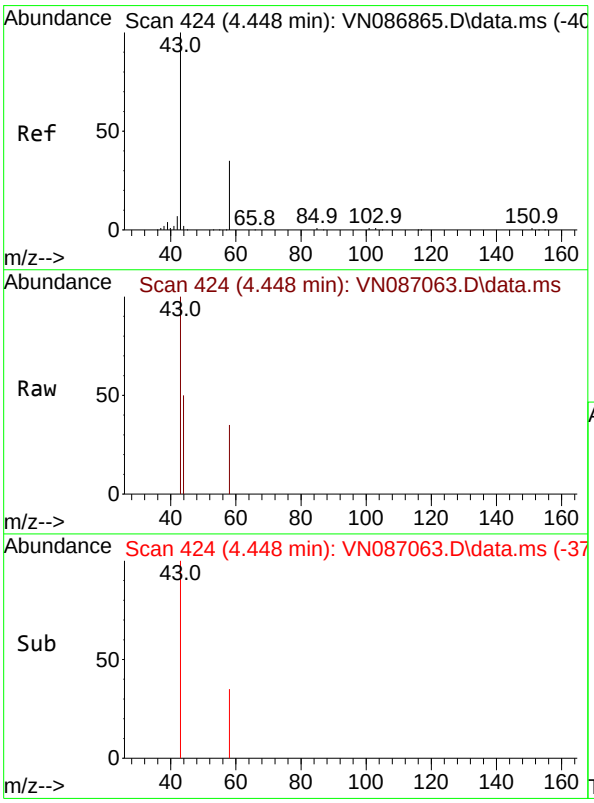
#11
Tert butyl alcohol
Concen: 1.226 ug/l
RT: 5.530 min Scan# 6
Delta R.T. -0.018 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Tgt Ion: 59 Resp: 893

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.1	12.1#

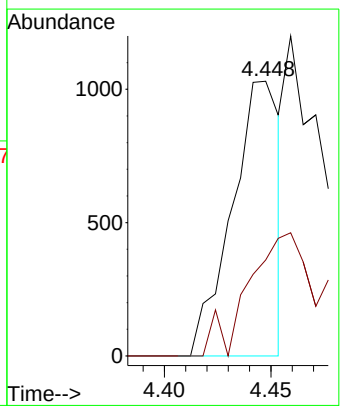


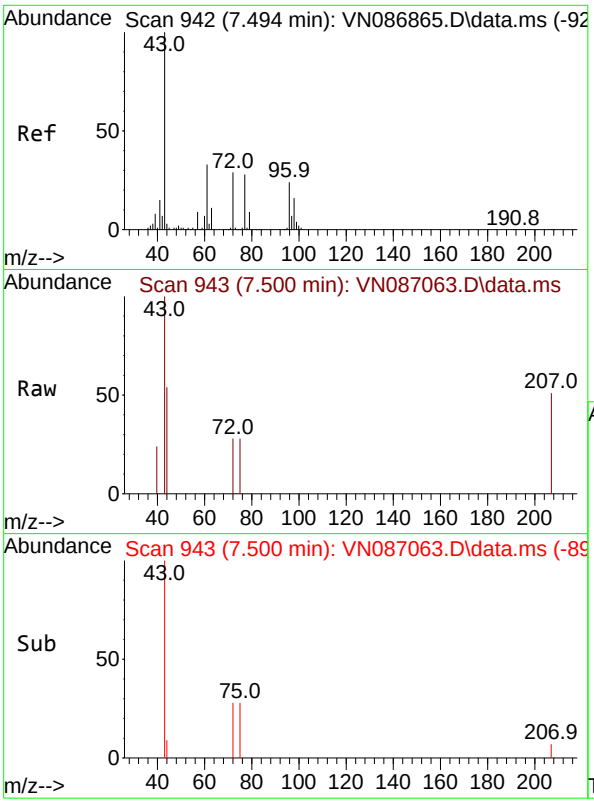


#16
Acetone
Concen: 1.132 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion: 43 Resp: 1611

Ion	Ratio	Lower	Upper
43	100		
58	35.0	28.0	42.0



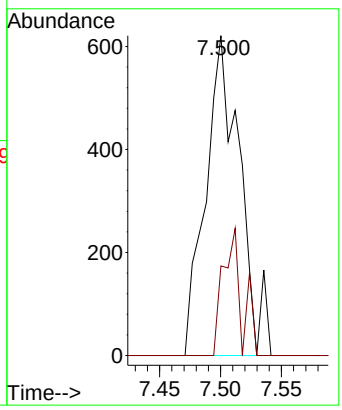


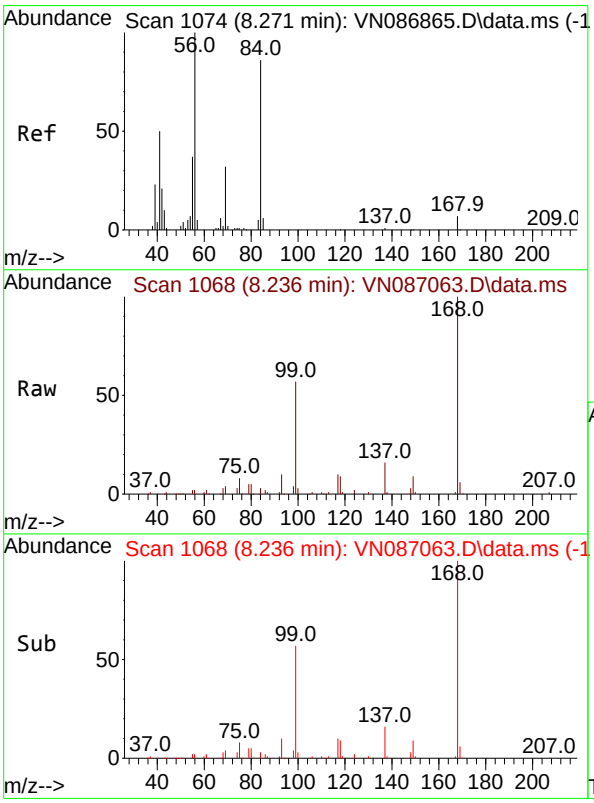
#25
2-Butanone
Concen: 0.523 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Tgt Ion: 43 Resp: 1210

Ion	Ratio	Lower	Upper
43	100		
72	28.0	23.0	34.6

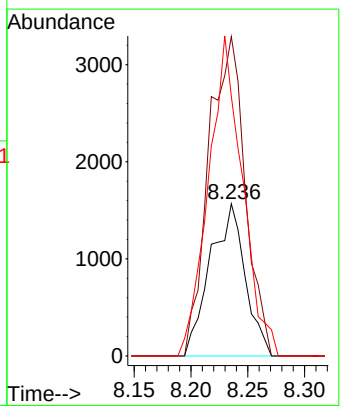


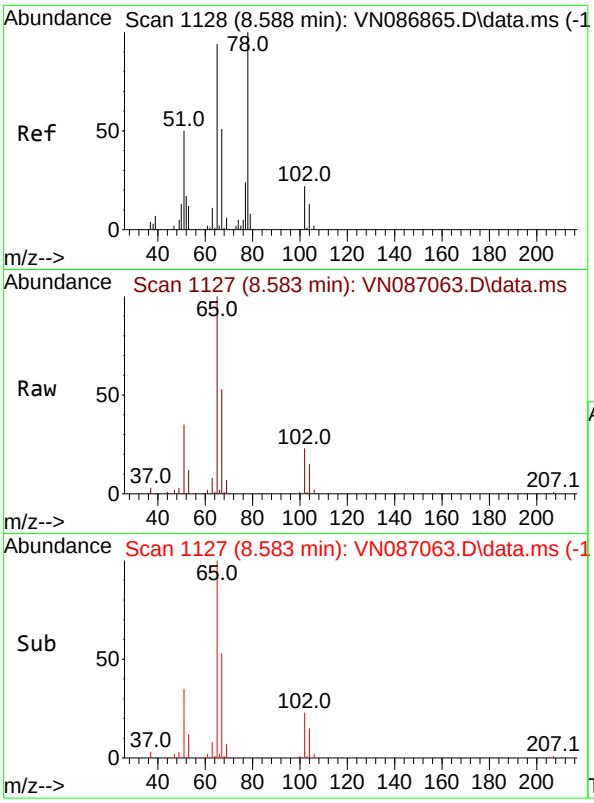


#31
Cyclohexane
Concen: 0.768 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.035 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion: 56 Resp: 3342

Ion	Ratio	Lower	Upper
56	100		
69	210.0	25.4	38.0#
84	170.7	68.8	103.2#



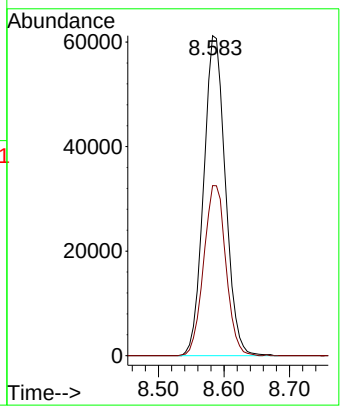


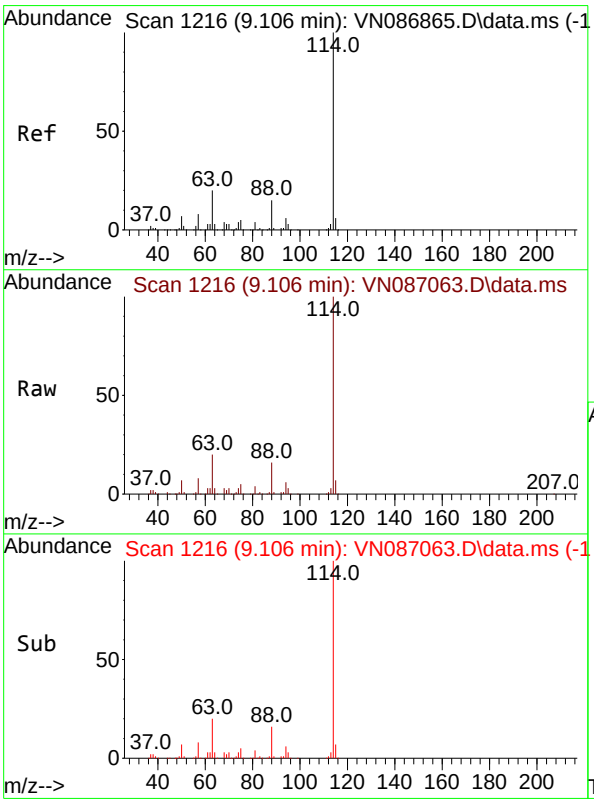
#33
1,2-Dichloroethane-d4
Concen: 52.462 ug/l
RT: 8.583 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Tgt Ion: 65 Resp: 140788

Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	105.6

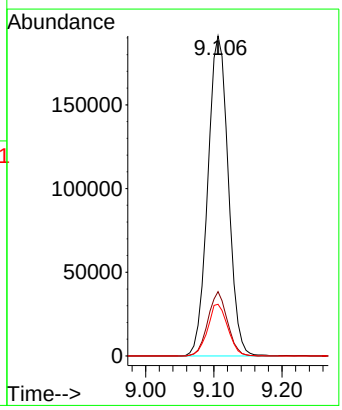


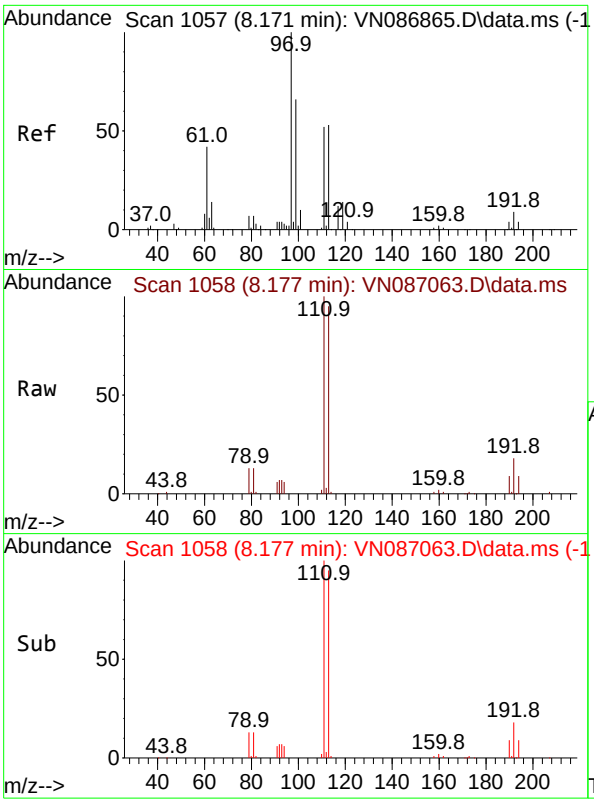


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion:114 Resp: 399463

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	39.6
88	16.1	0.0	30.2



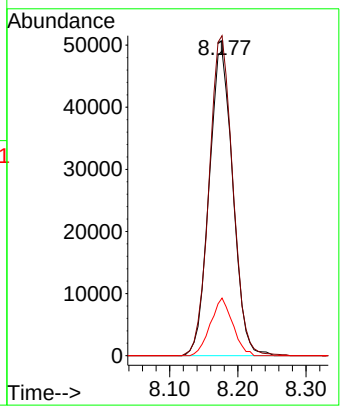


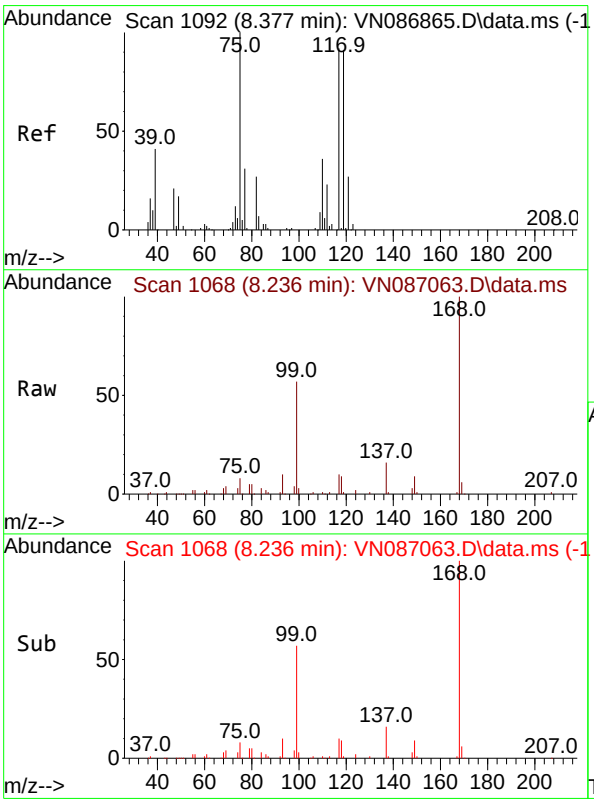
#35
Dibromofluoromethane
Concen: 50.750 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Tgt Ion:113 Resp: 120142

Ion	Ratio	Lower	Upper
113	100		
111	103.9	84.2	126.2
192	17.5	14.2	21.4

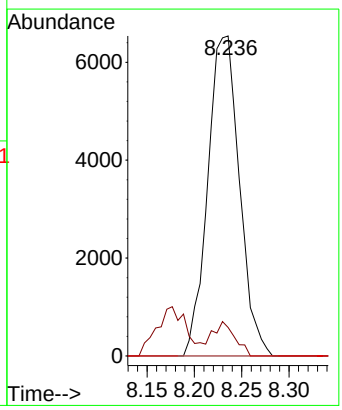


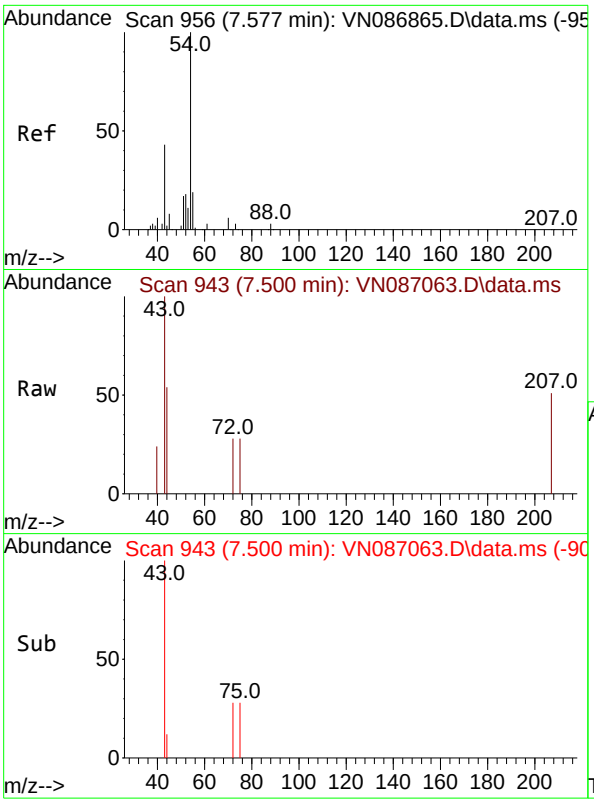


#36
1,1-Dichloropropene
Concen: 4.309 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion: 75 Resp: 15201

Ion	Ratio	Lower	Upper
75	100		
110	7.3	17.6	52.9#
77	0.0	25.3	37.9#



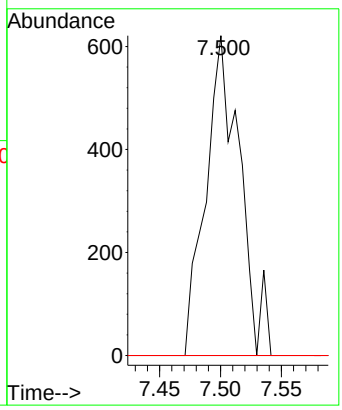


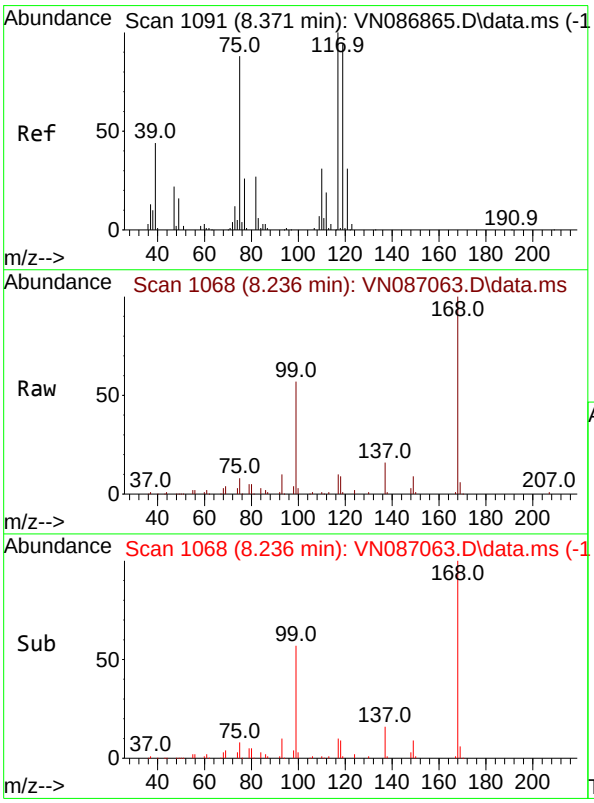
#37
Ethyl Acetate
Concen: 0.269 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.077 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Tgt Ion: 43 Resp: 1210

Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.1	18.1#
70	0.0	9.8	14.6#

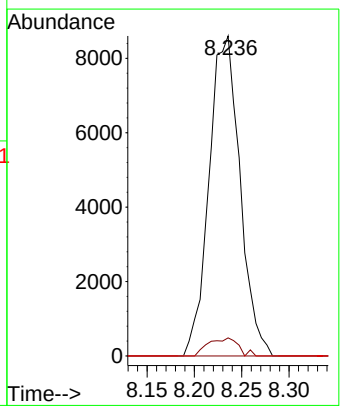


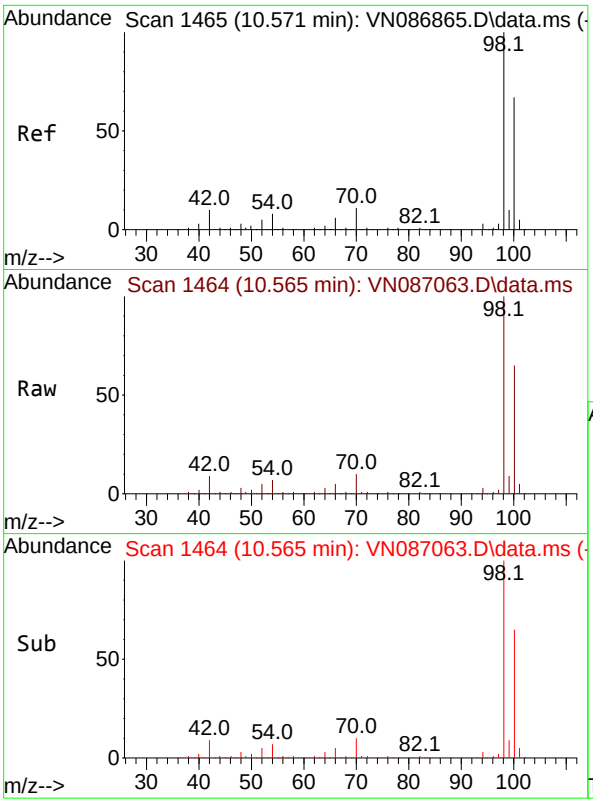


#38
Carbon Tetrachloride
Concen: 5.639 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion:117 Resp: 19529

Ion	Ratio	Lower	Upper
117	100		
119	5.6	75.0	112.6#
121	0.0	24.9	37.3#



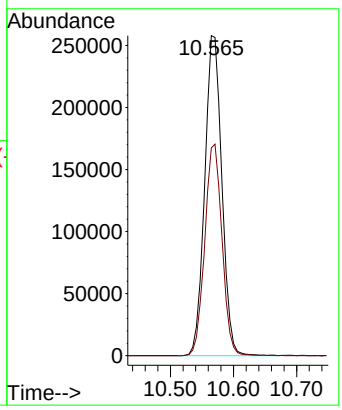


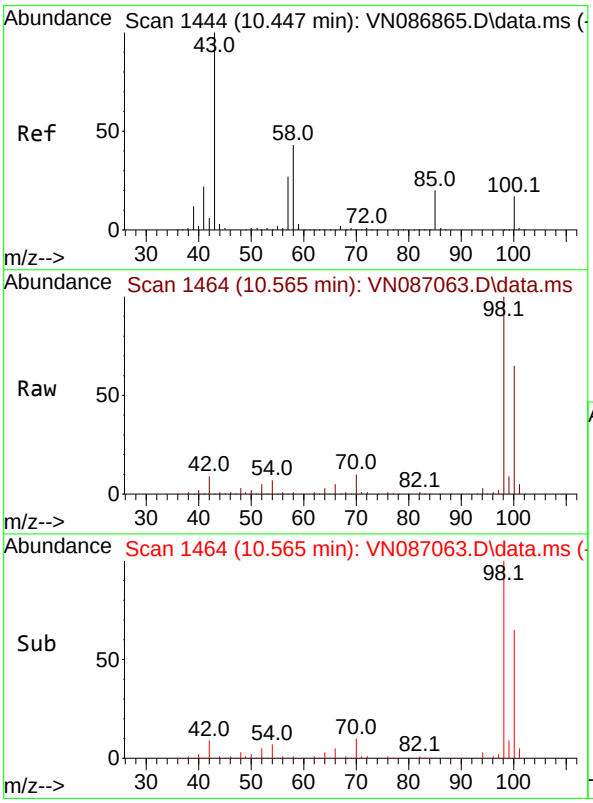
#50
Toluene-d8
Concen: 51.953 ug/l
RT: 10.565 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Tgt Ion: 98 Resp: 486877

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.4	80.0

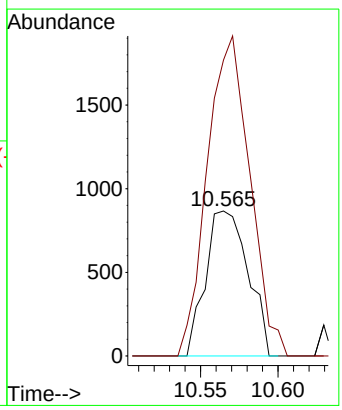


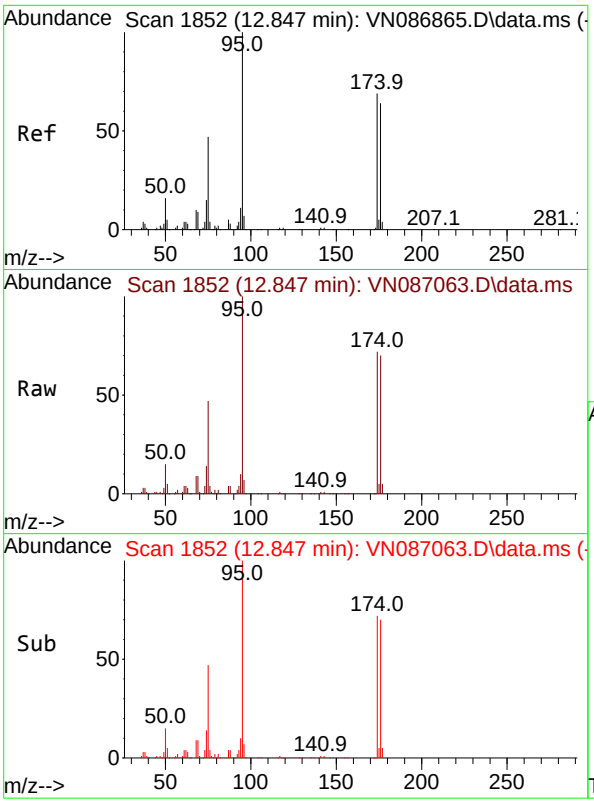


#51
4-Methyl-2-Pentanone
Concen: 0.381 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.118 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion: 43 Resp: 1655

Ion	Ratio	Lower	Upper
43	100		
58	221.0	34.2	51.4#



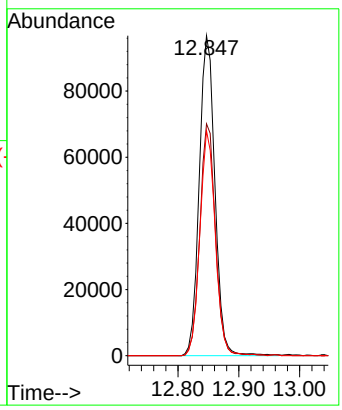


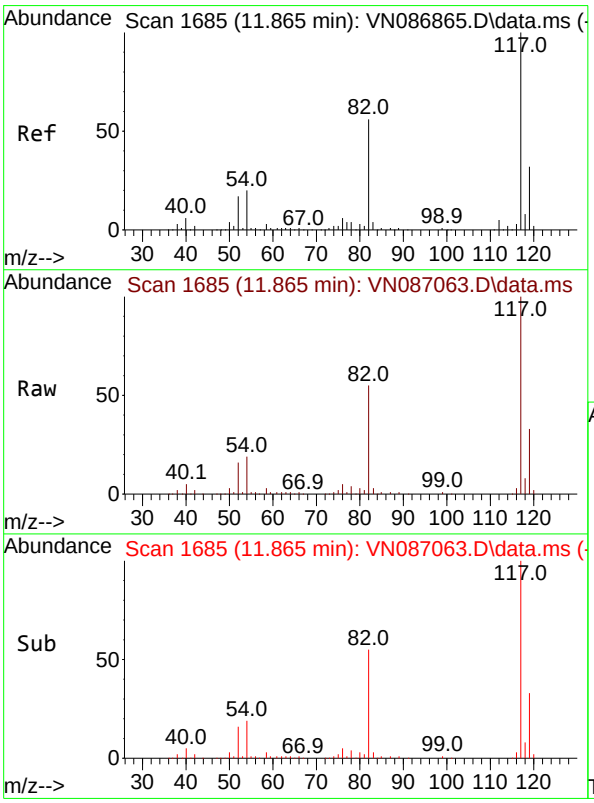
#62
4-Bromofluorobenzene
Concen: 49.693 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Tgt Ion: 95 Resp: 173023

Ion	Ratio	Lower	Upper
95	100		
174	71.7	0.0	141.8
176	69.3	0.0	132.6

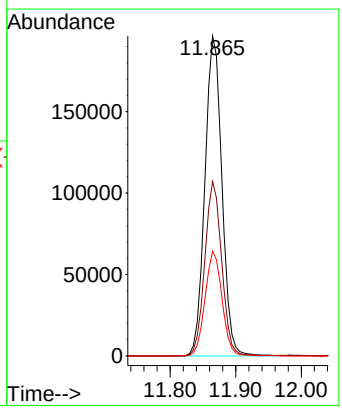


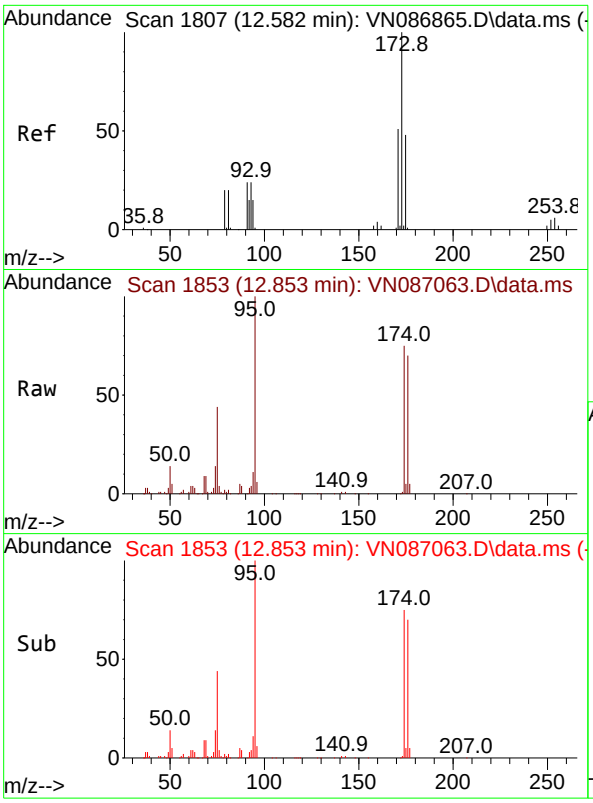


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion:117 Resp: 355638

Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.6	67.0
119	32.7	25.5	38.3



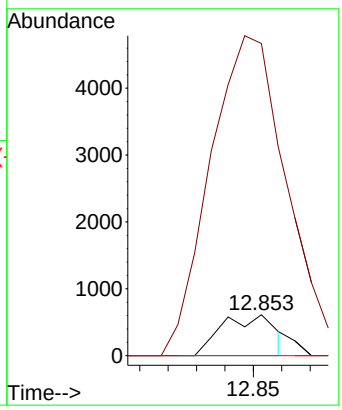


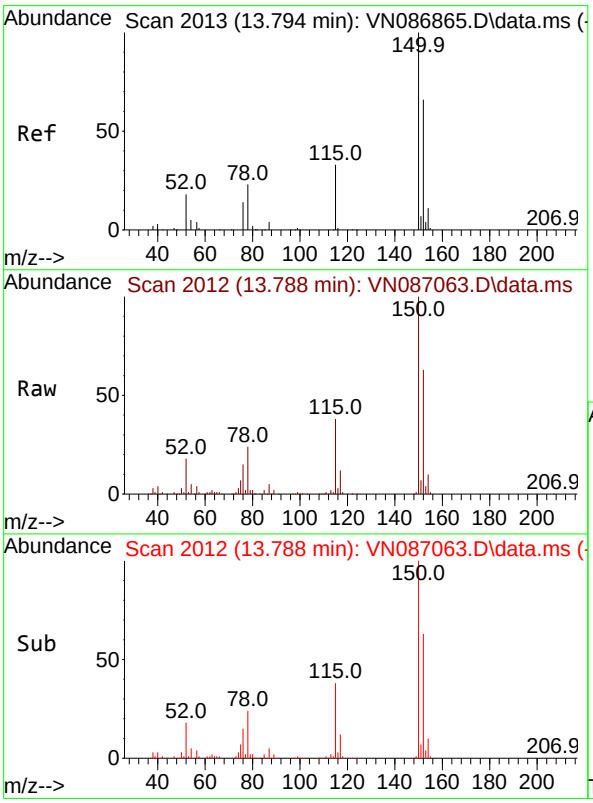
#71
Bromoform
Concen: 0.428 ug/l
RT: 12.853 min Scan# 1
Delta R.T. 0.270 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Tgt Ion:173 Resp: 799

Ion	Ratio	Lower	Upper
173	100		
175	958.8	24.1	72.4#
254	0.0	0.0	0.0

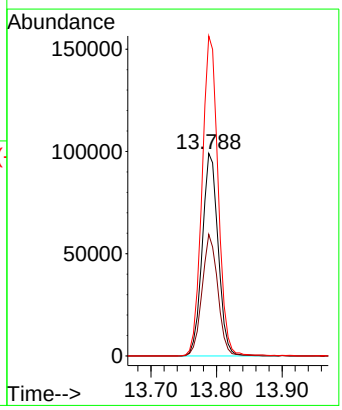


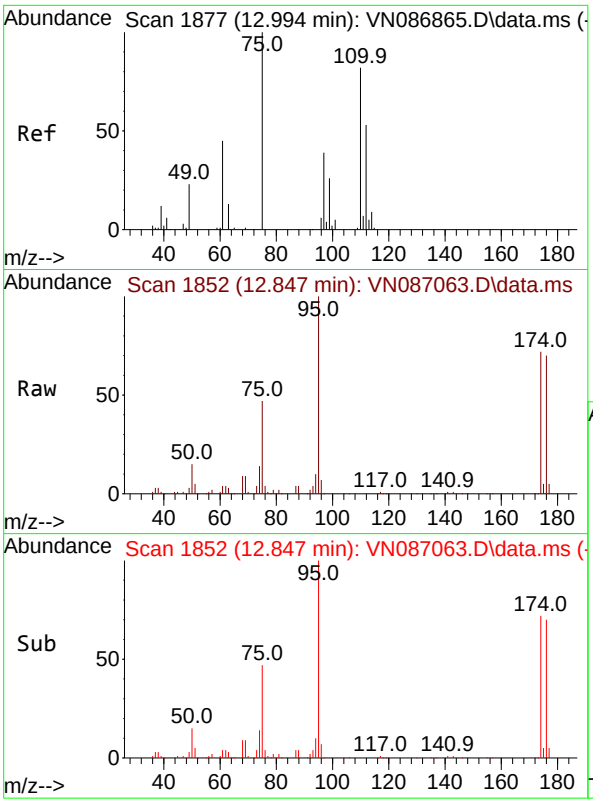


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion:152 Resp: 167802

Ion	Ratio	Lower	Upper
152	100		
115	59.3	30.1	90.5
150	158.6	0.0	345.0



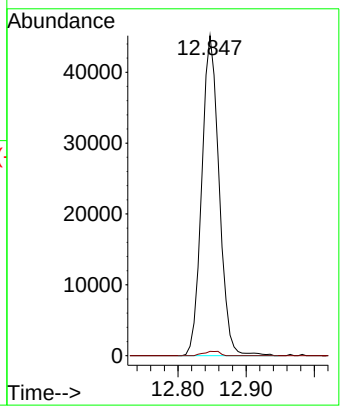


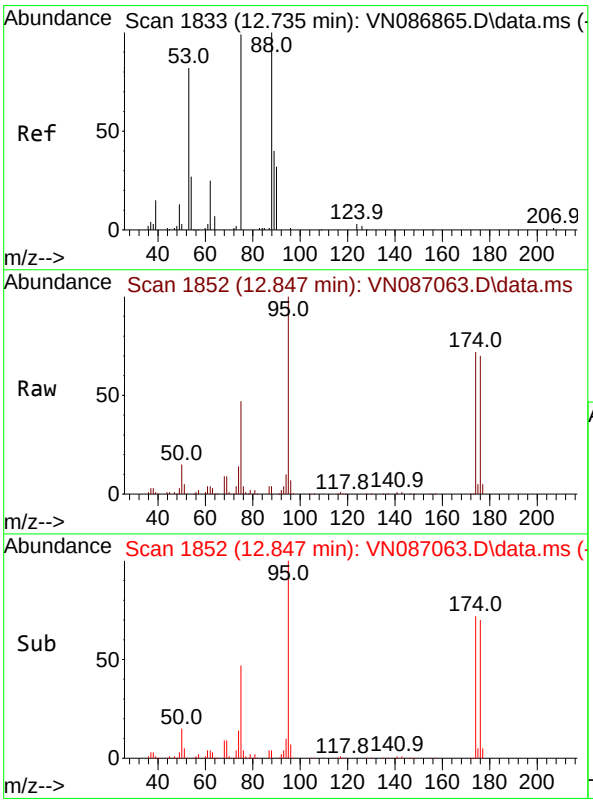
#76
1,2,3-Trichloropropane
Concen: 20.079 ug/l
RT: 12.847 min Scan# 1
Delta R.T. -0.147 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Instrument :
MSVOA_N
ClientSampleId :
TT192D1-20250611

Tgt Ion: 75 Resp: 80088

Ion	Ratio	Lower	Upper
75	100		
77	1.3	79.3	237.9#

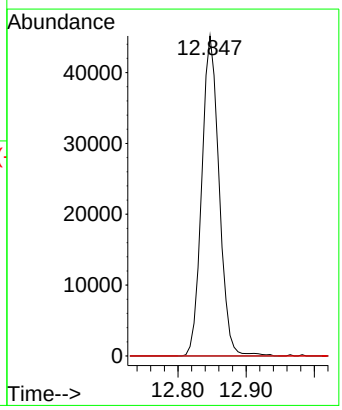




#81
trans-1,4-Dichloro-2-butene
Concen: 46.220 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087063.D
Acq: 17 Jun 2025 16:30

Tgt Ion: 75 Resp: 80088

Ion	Ratio	Lower	Upper
75	100		
53	0.0	66.6	99.8#
89	0.0	36.7	55.1#



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	167531	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	306106	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	265997	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	131413	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	96562	43.049	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 86.100%			
35) Dibromofluoromethane	8.171	113	85268	47.004	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.000%			
50) Toluene-d8	10.565	98	315347	43.912	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 87.820%			
62) 4-Bromofluorobenzene	12.847	95	118929	44.575	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	87392	52.318	ug/l	98
3) Chloromethane	2.395	50	95478	44.264	ug/l	99
4) Vinyl Chloride	2.554	62	121364	54.544	ug/l	97
5) Bromomethane	2.995	94	62314	50.045	ug/l	98
6) Chloroethane	3.154	64	77262	53.756	ug/l	94
7) Trichlorofluoromethane	3.530	101	155166	53.374	ug/l	100
8) Diethyl Ether	3.983	74	66870	52.794	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.395	101	94617	51.804	ug/l	99
10) Methyl Iodide	4.612	142	77912	32.907	ug/l	95
11) Tert butyl alcohol	5.536	59	137228	225.470	ug/l	100
12) 1,1-Dichloroethene	4.371	96	100395	53.841	ug/l	96
13) Acrolein	4.206	56	75941	394.185	ug/l	99
14) Allyl chloride	5.048	41	144068	46.587	ug/l	96
15) Acrylonitrile	5.736	53	345548	242.901	ug/l	99
16) Acetone	4.448	43	259437	218.104	ug/l	93
17) Carbon Disulfide	4.742	76	289711	56.169	ug/l	100
18) Methyl Acetate	5.048	43	143655	41.442	ug/l	96
19) Methyl tert-butyl Ether	5.812	73	343279	50.844	ug/l	99
20) Methylene Chloride	5.300	84	111875	50.236	ug/l	96
21) trans-1,2-Dichloroethene	5.812	96	106782	51.471	ug/l	96
22) Diisopropyl ether	6.689	45	310324	47.606	ug/l	97
23) Vinyl Acetate	6.618	43	1377448	250.103	ug/l	98
24) 1,1-Dichloroethane	6.583	63	192690	51.366	ug/l	99
25) 2-Butanone	7.489	43	432033	223.445	ug/l	96
26) 2,2-Dichloropropane	7.500	77	144032	49.359	ug/l	98
27) cis-1,2-Dichloroethene	7.494	96	129711	52.279	ug/l	97
28) Bromochloromethane	7.818	49	79087	42.878	ug/l	93
29) Tetrahydrofuran	7.847	42	285560	226.717	ug/l	94
30) Chloroform	7.977	83	191328	51.071	ug/l	99
31) Cyclohexane	8.265	56	166881	45.871	ug/l	93
32) 1,1,1-Trichloroethane	8.177	97	160982	50.523	ug/l	96
36) 1,1-Dichloropropene	8.383	75	141500	52.347	ug/l	99
37) Ethyl Acetate	7.571	43	165471	48.087	ug/l	99
38) Carbon Tetrachloride	8.371	117	137539	51.827	ug/l	98
39) Methylcyclohexane	9.606	83	160557	43.354	ug/l	95
40) Benzene	8.612	78	454862	51.459	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.783	41	86338	44.676 ug/l	93
42) 1,2-Dichloroethane	8.677	62	133634	49.844 ug/l	99
43) Isopropyl Acetate	8.694	43	252941	45.798 ug/l	96
44) Trichloroethene	9.359	130	110988	52.953 ug/l	97
45) 1,2-Dichloropropane	9.624	63	110409	51.342 ug/l	99
46) Dibromomethane	9.712	93	76868	53.815 ug/l	99
47) Bromodichloromethane	9.888	83	148705	50.600 ug/l	99
48) Methyl methacrylate	9.683	41	115606	45.478 ug/l	94
49) 1,4-Dioxane	9.700	88	47314	1023.116 ug/l #	97
51) 4-Methyl-2-Pentanone	10.447	43	785897	236.369 ug/l	97
52) Toluene	10.630	92	280299	51.889 ug/l	98
53) t-1,3-Dichloropropene	10.835	75	167848	51.076 ug/l	99
54) cis-1,3-Dichloropropene	10.312	75	182228	51.826 ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	106560	51.266 ug/l	99
56) Ethyl methacrylate	10.882	69	173955	52.544 ug/l	93
57) 1,3-Dichloropropane	11.165	76	182424	50.593 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	473770	239.927 ug/l	98
59) 2-Hexanone	11.200	43	521841	243.662 ug/l	93
60) Dibromochloromethane	11.359	129	116451	53.772 ug/l	99
61) 1,2-Dibromoethane	11.471	107	112872	52.979 ug/l	97
64) Tetrachloroethene	11.106	164	85369	50.712 ug/l	96
65) Chlorobenzene	11.888	112	308637	52.609 ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	100286	53.179 ug/l	99
67) Ethyl Benzene	11.965	91	513967	50.862 ug/l	99
68) m/p-Xylenes	12.071	106	404997	104.697 ug/l	99
69) o-Xylene	12.394	106	195732	52.832 ug/l	97
70) Styrene	12.412	104	336415	53.066 ug/l	99
71) Bromoform	12.576	173	77185	55.239 ug/l #	100
73) Isopropylbenzene	12.694	105	475717	49.691 ug/l	99
74) N-amyl acetate	12.518	43	144591	43.221 ug/l #	93
75) 1,1,2,2-Tetrachloroethane	12.935	83	166164	51.233 ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	219191	70.170 ug/l	72
77) Bromobenzene	12.982	156	117013	53.296 ug/l	96
78) n-propylbenzene	13.035	91	557066	47.881 ug/l	98
79) 2-Chlorotoluene	13.124	91	340654	48.823 ug/l	97
80) 1,3,5-Trimethylbenzene	13.171	105	383774	48.554 ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	61410	45.254 ug/l	97
82) 4-Chlorotoluene	13.218	91	351028	49.722 ug/l	98
83) tert-Butylbenzene	13.435	119	327812	45.308 ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	391683	49.418 ug/l	100
85) sec-Butylbenzene	13.612	105	464024	44.163 ug/l	100
86) p-Isopropyltoluene	13.729	119	390433	44.952 ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	221199	51.207 ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	224947	51.077 ug/l	100
89) n-Butylbenzene	14.053	91	338323	40.215 ug/l	99
90) Hexachloroethane	14.329	117	68814	46.741 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	215082	51.826 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	37100	47.831 ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	116242	43.863 ug/l	99
94) Hexachlorobutadiene	15.494	225	36461	36.928 ug/l	98
95) Naphthalene	15.635	128	474700	48.124 ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	113176	42.984 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

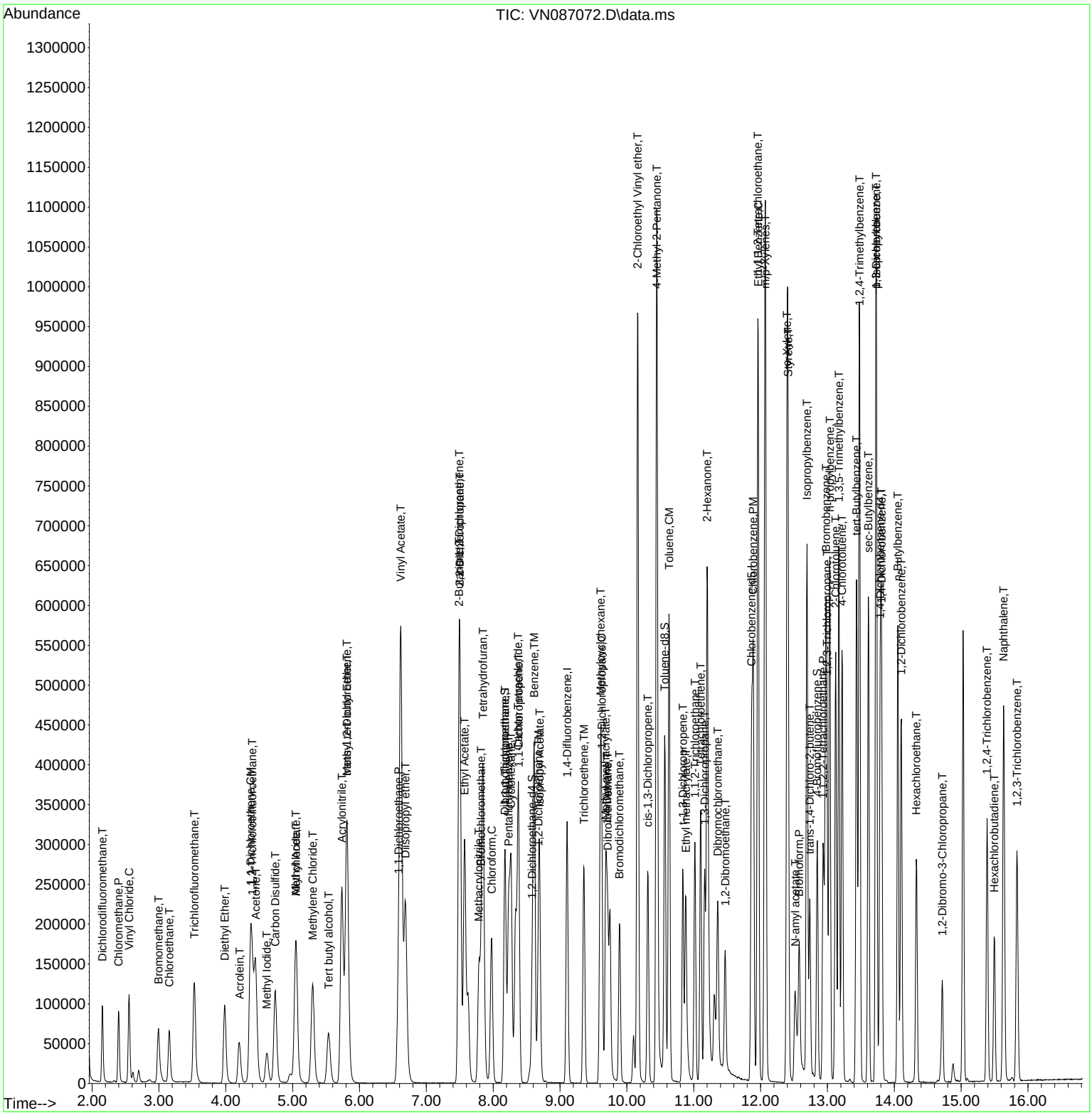
(#) = qualifier out of range (m) = manual integration (+) = signals summed

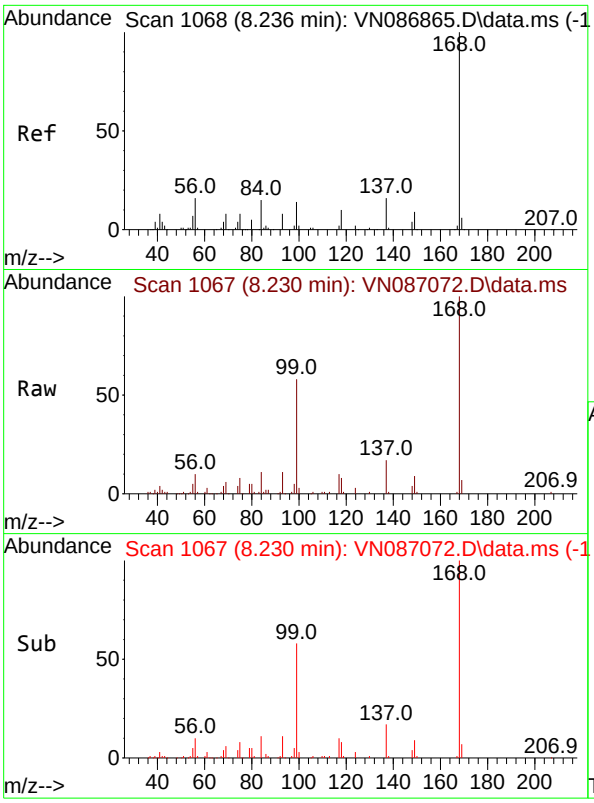
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061725\
Data File : VN087072.D
Acq On : 17 Jun 2025 19:43
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 29 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jun 18 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



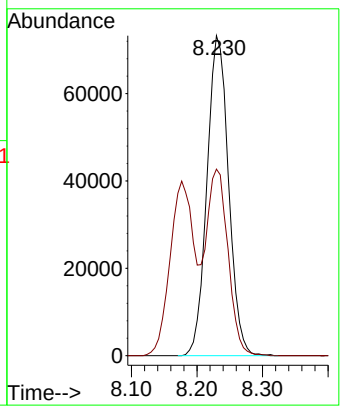


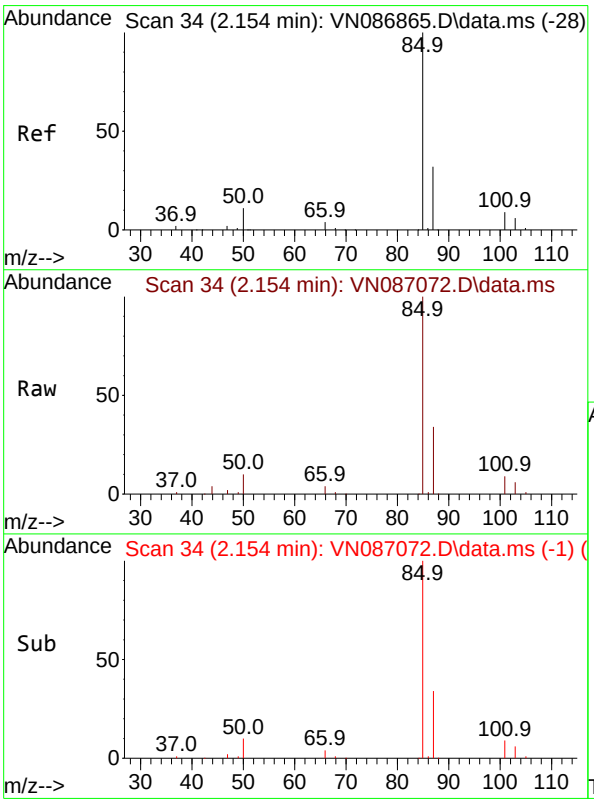
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 167531

Ion	Ratio	Lower	Upper
168	100		
99	58.3	49.1	73.7

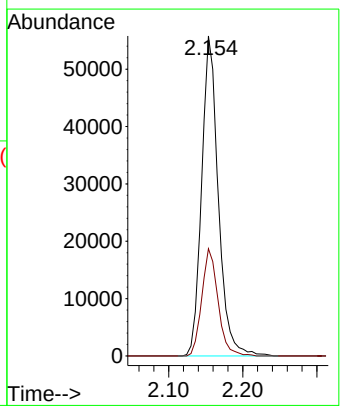


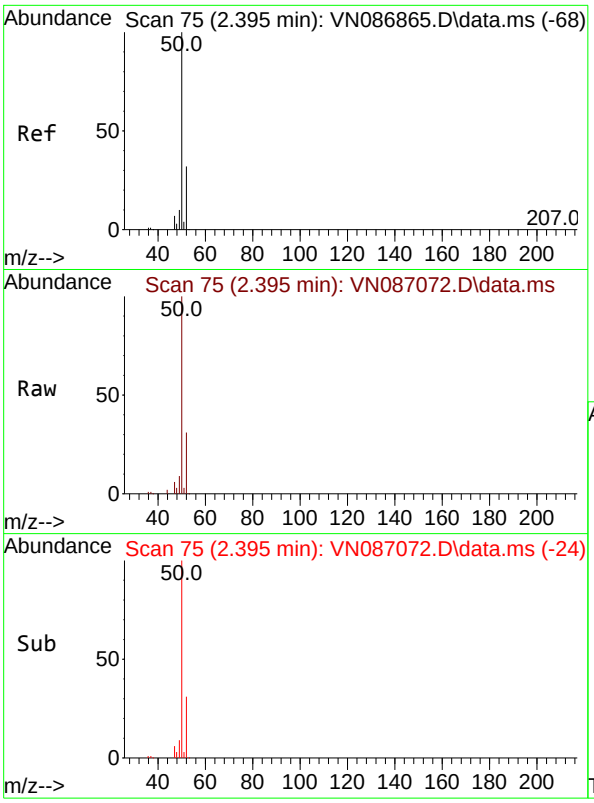


#2
Dichlorodifluoromethane
Concen: 52.318 ug/l
RT: 2.154 min Scan# 34
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 85 Resp: 87392

Ion	Ratio	Lower	Upper
85	100		
87	33.5	16.2	48.6



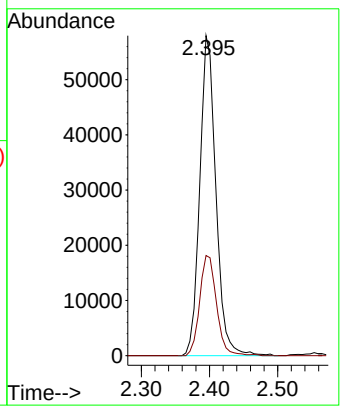


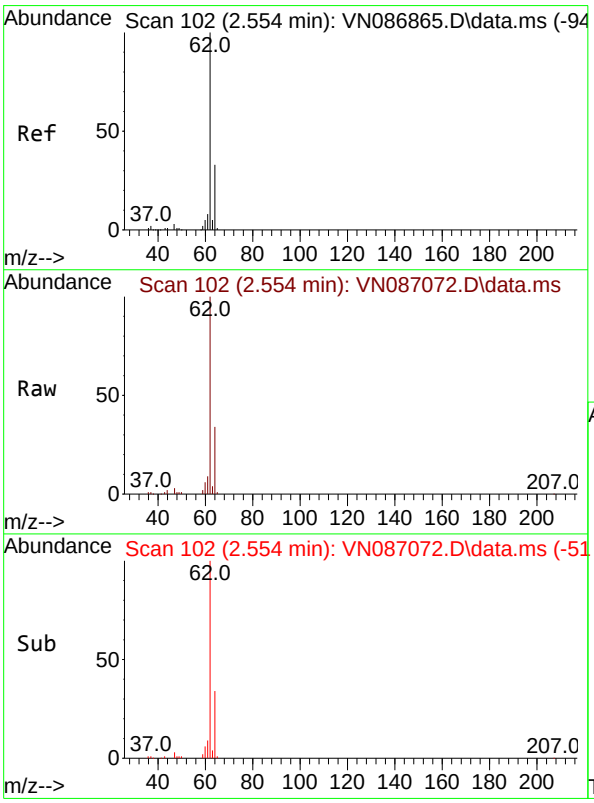
#3
Chloromethane
Concen: 44.264 ug/l
RT: 2.395 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 95478

Ion	Ratio	Lower	Upper
50	100		
52	31.3	25.7	38.5

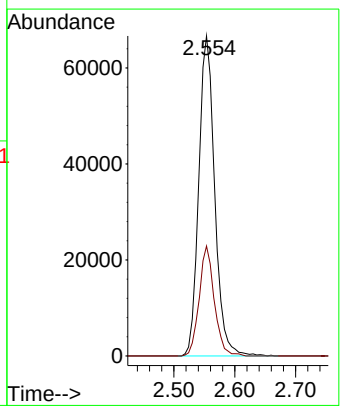


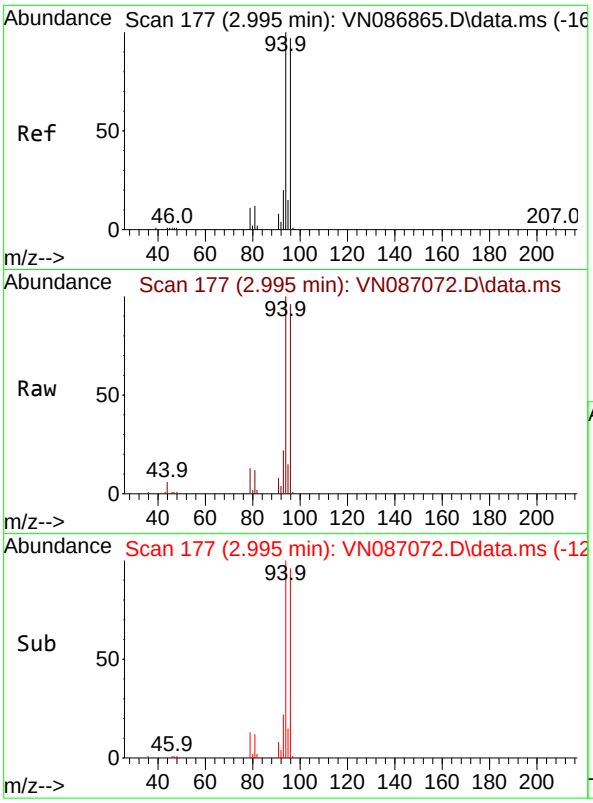


#4
Vinyl Chloride
Concen: 54.544 ug/l
RT: 2.554 min Scan# 102
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 62 Resp: 121364

Ion	Ratio	Lower	Upper
62	100		
64	34.3	26.0	39.0



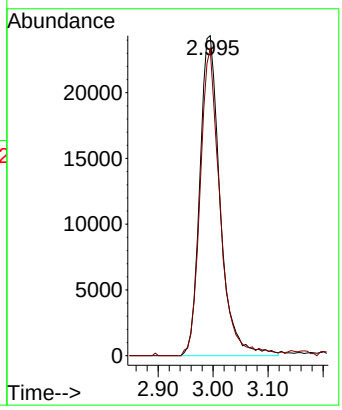


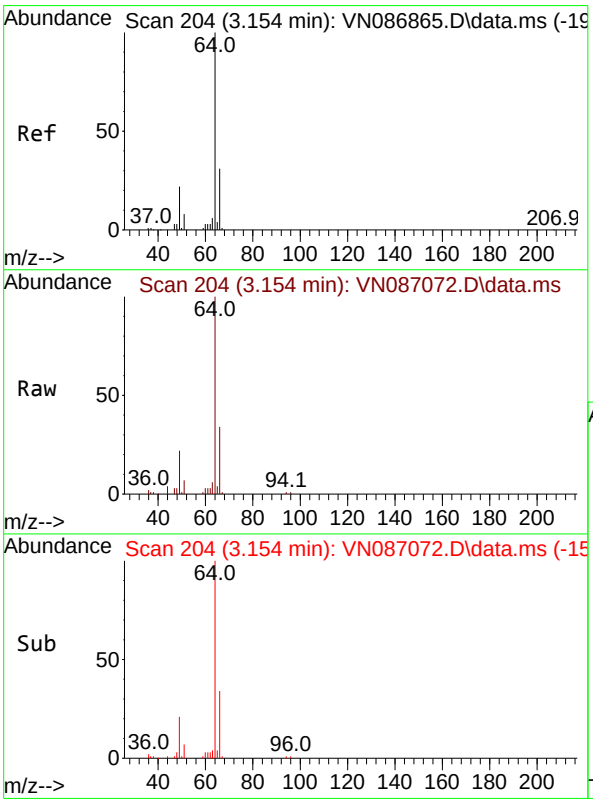
#5
Bromomethane
Concen: 50.045 ug/l
RT: 2.995 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 62314

Ion	Ratio	Lower	Upper
94	100		
96	95.9	77.9	116.9

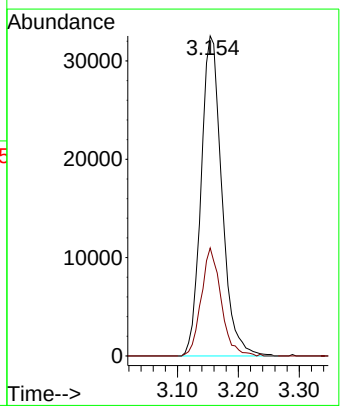


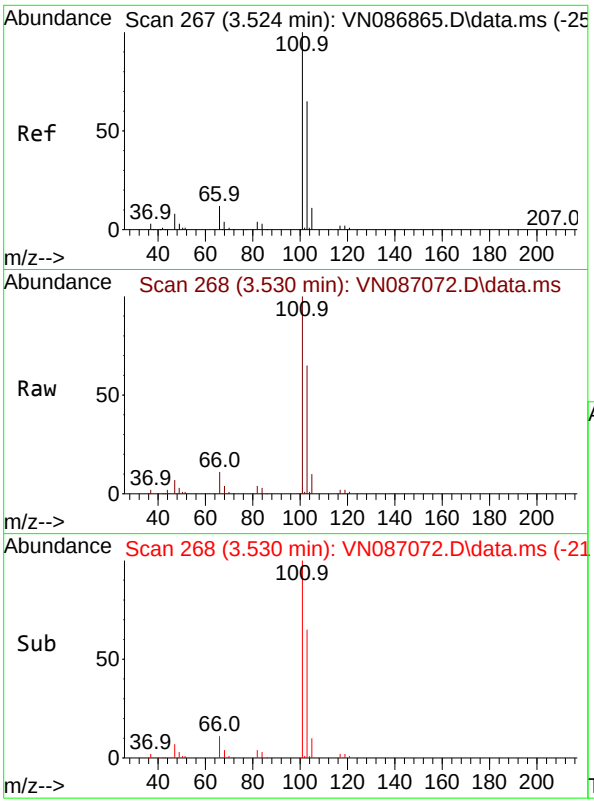


#6
Chloroethane
Concen: 53.756 ug/l
RT: 3.154 min Scan# 204
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 64 Resp: 77262

Ion	Ratio	Lower	Upper
64	100		
66	33.7	24.6	36.8



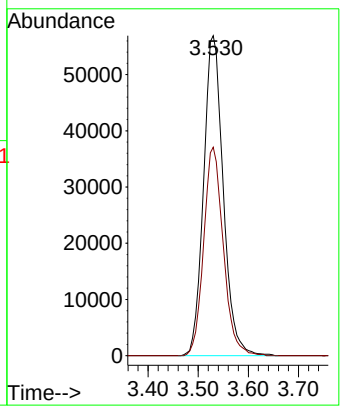


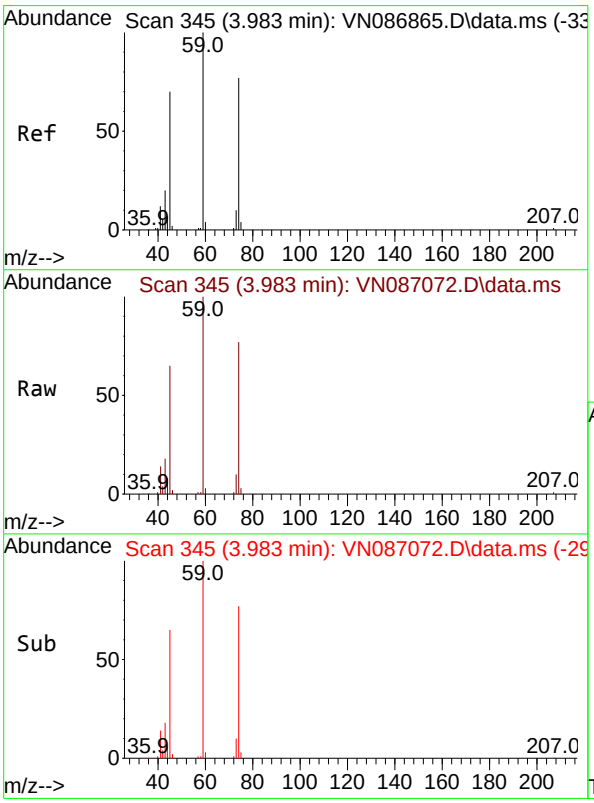
#7
Trichlorofluoromethane
Concen: 53.374 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 155166

Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.2	78.2

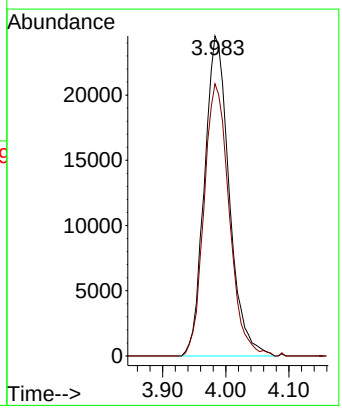


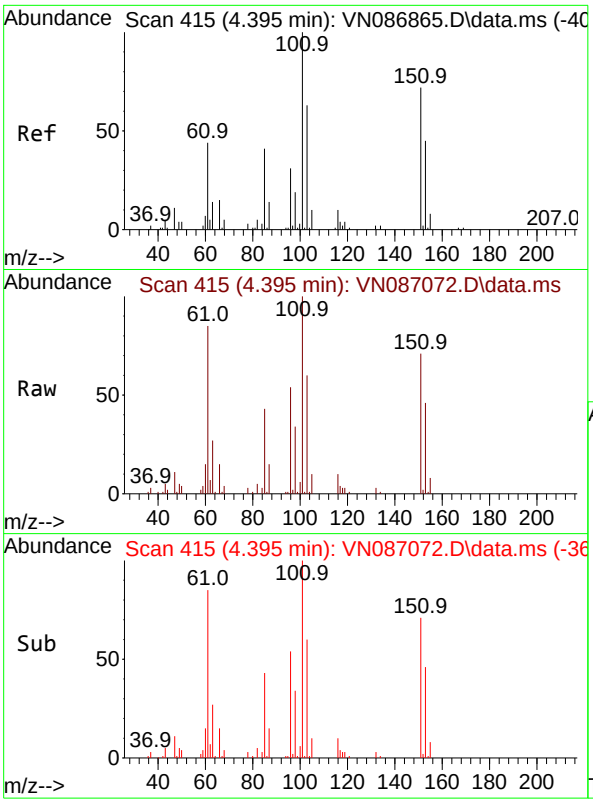


#8
Diethyl Ether
Concen: 52.794 ug/l
RT: 3.983 min Scan# 345
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 74 Resp: 66870

Ion	Ratio	Lower	Upper
74	100		
45	86.4	45.5	136.5



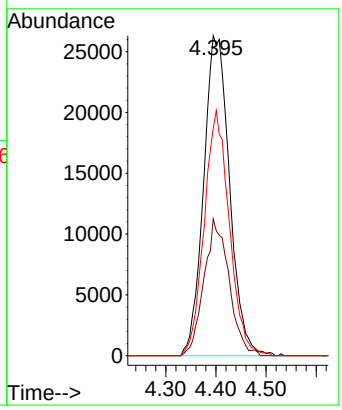


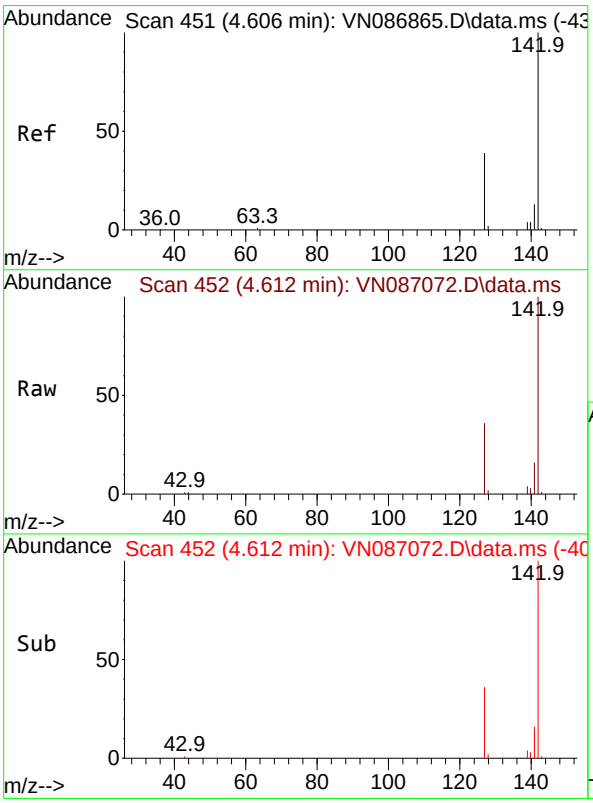
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.804 ug/l
RT: 4.395 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 94617

Ion	Ratio	Lower	Upper
101	100		
85	41.1	33.8	50.8
151	74.2	58.7	88.1

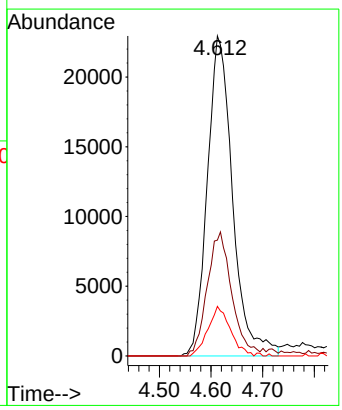


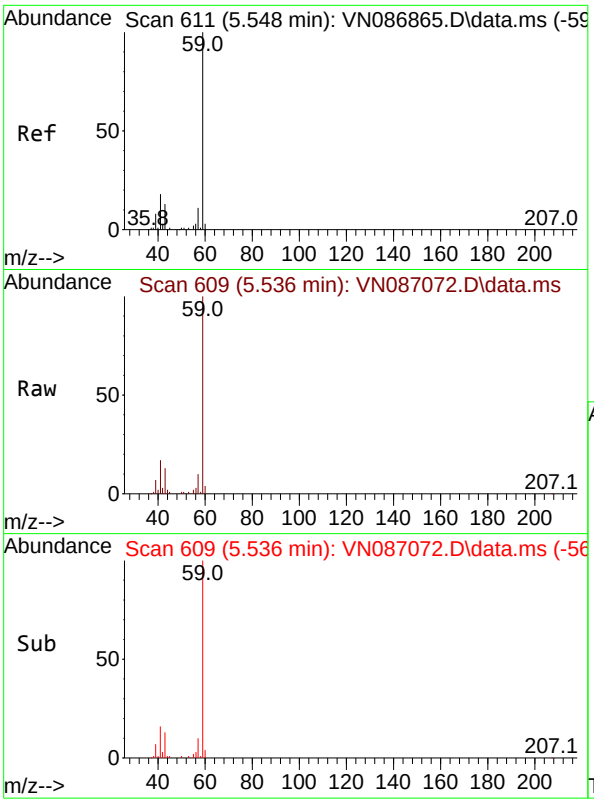


#10
Methyl Iodide
Concen: 32.907 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:142 Resp: 77912

Ion	Ratio	Lower	Upper
142	100		
127	36.2	30.9	46.3
141	15.5	10.4	15.6



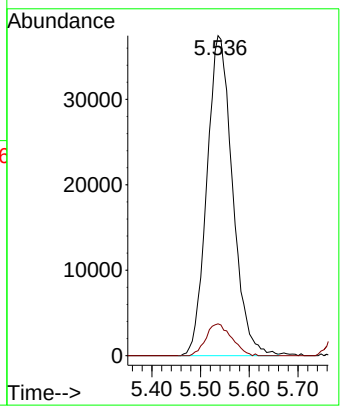


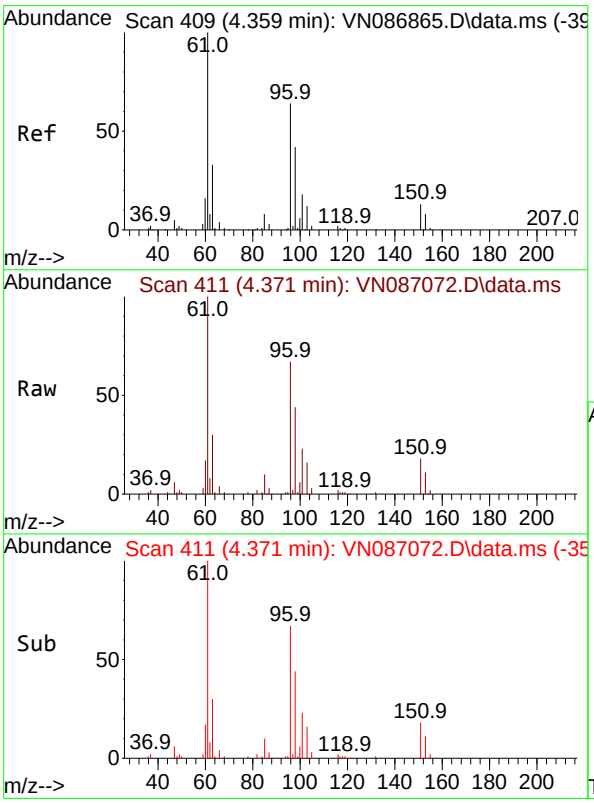
#11
Tert butyl alcohol
Concen: 225.470 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 137228

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1

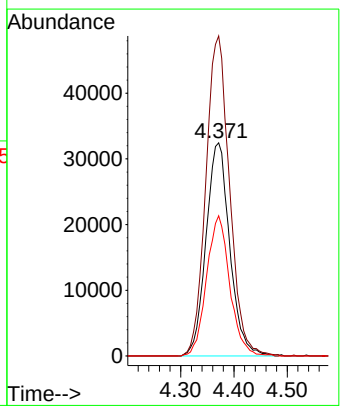


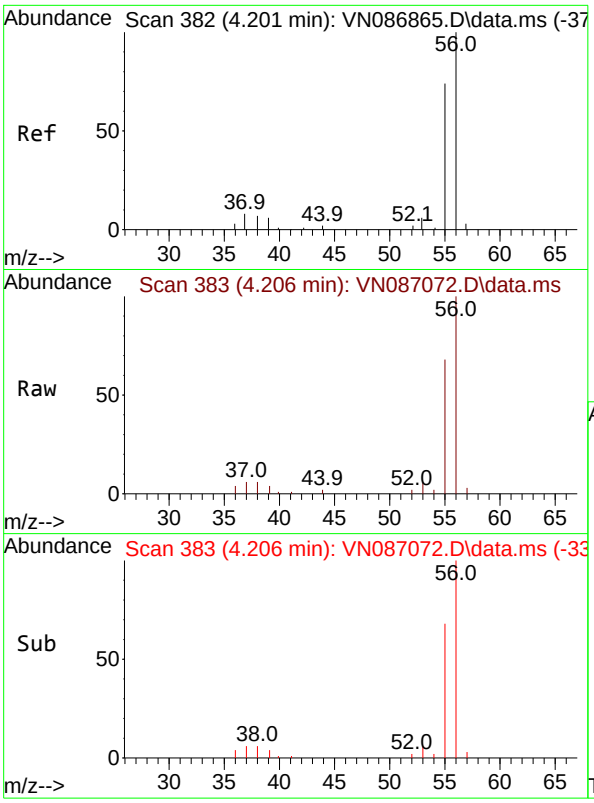


#12
1,1-Dichloroethene
Concen: 53.841 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 96 Resp: 100395

Ion	Ratio	Lower	Upper
96	100		
61	150.2	125.8	188.6
98	65.8	52.5	78.7



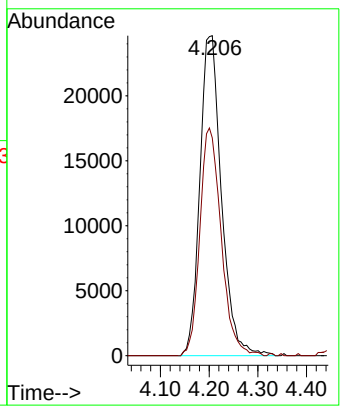


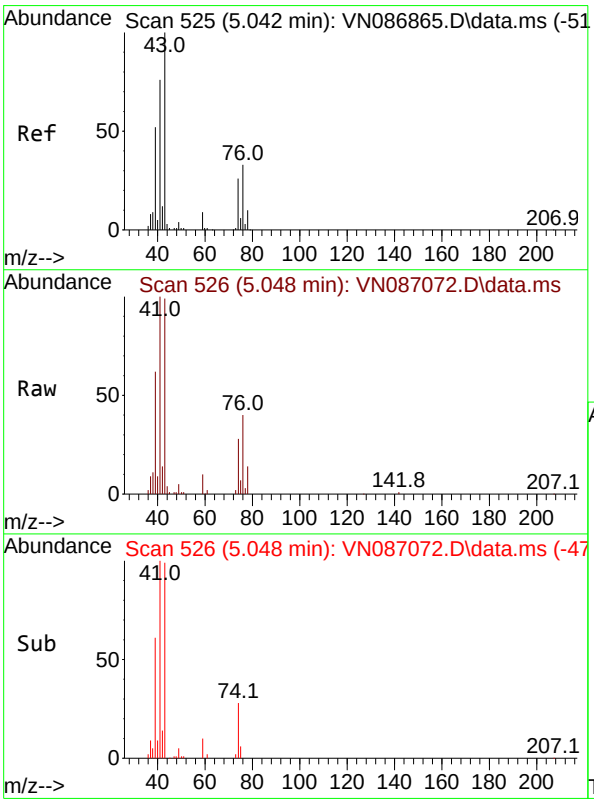
#13
Acrolein
Concen: 394.185 ug/l
RT: 4.206 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 75941

Ion	Ratio	Lower	Upper
56	100		
55	70.2	55.6	83.4

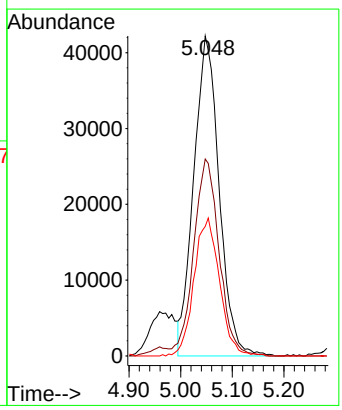


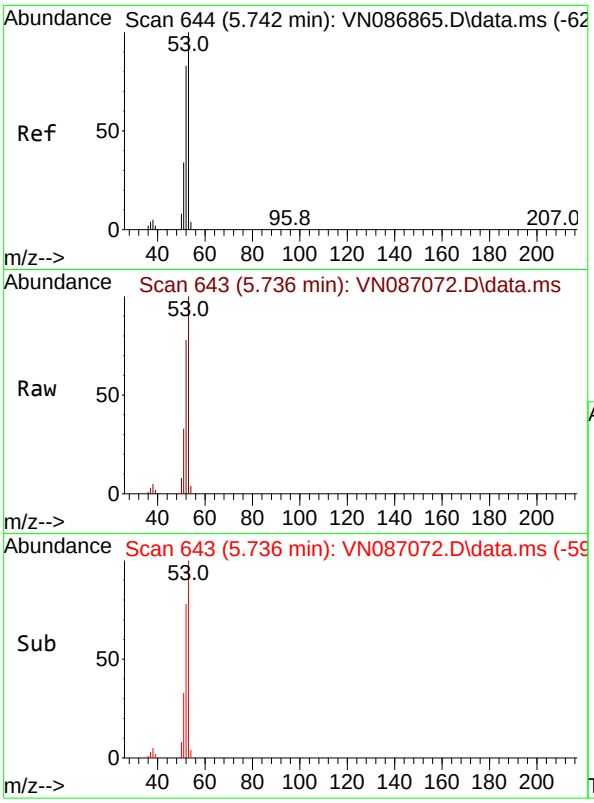


#14
Allyl chloride
Concen: 46.587 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 41 Resp: 144068

Ion	Ratio	Lower	Upper
41	100		
39	62.0	51.3	76.9
76	43.4	31.4	47.0



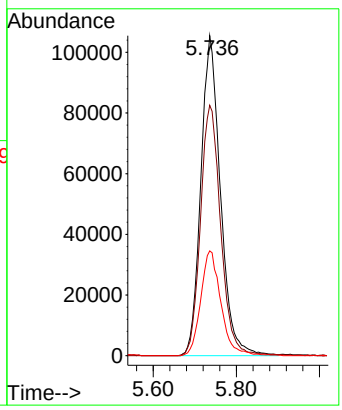


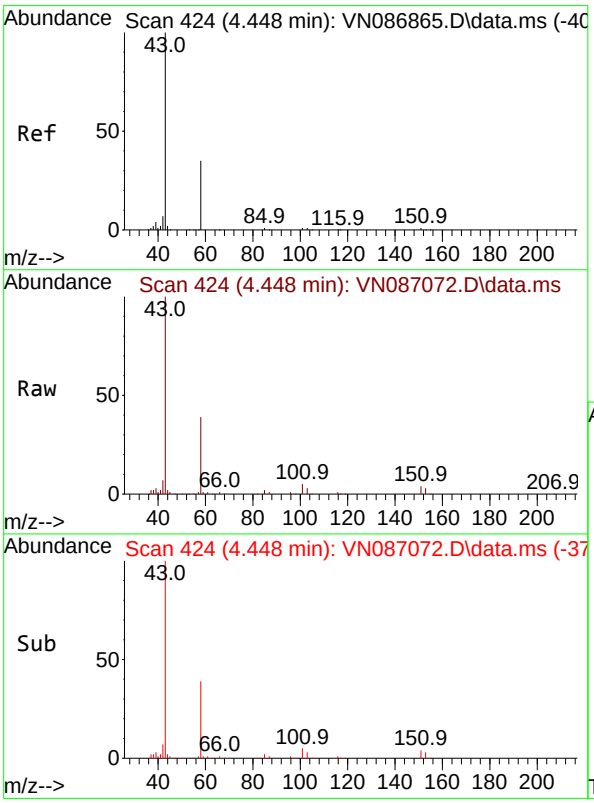
#15
Acrylonitrile
Concen: 242.901 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 345548

Ion	Ratio	Lower	Upper
53	100		
52	80.5	65.0	97.6
51	33.8	27.2	40.8

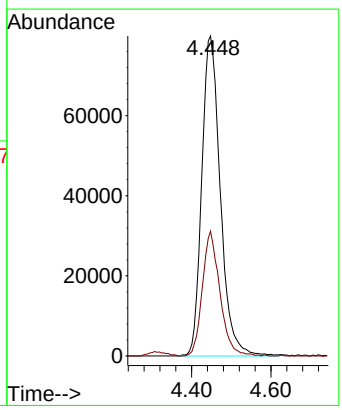


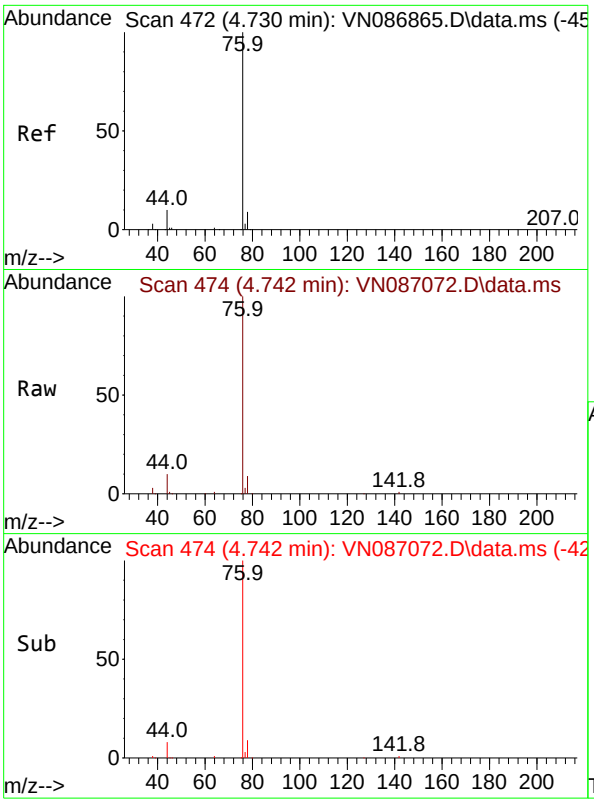


#16
Acetone
Concen: 218.104 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 43 Resp: 259437

Ion	Ratio	Lower	Upper
43	100		
58	39.0	28.0	42.0



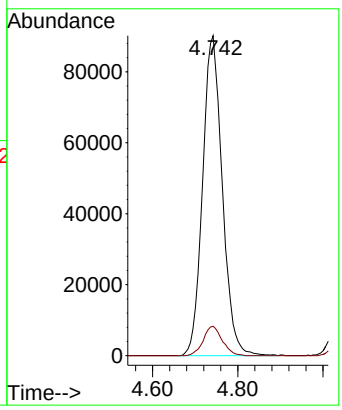


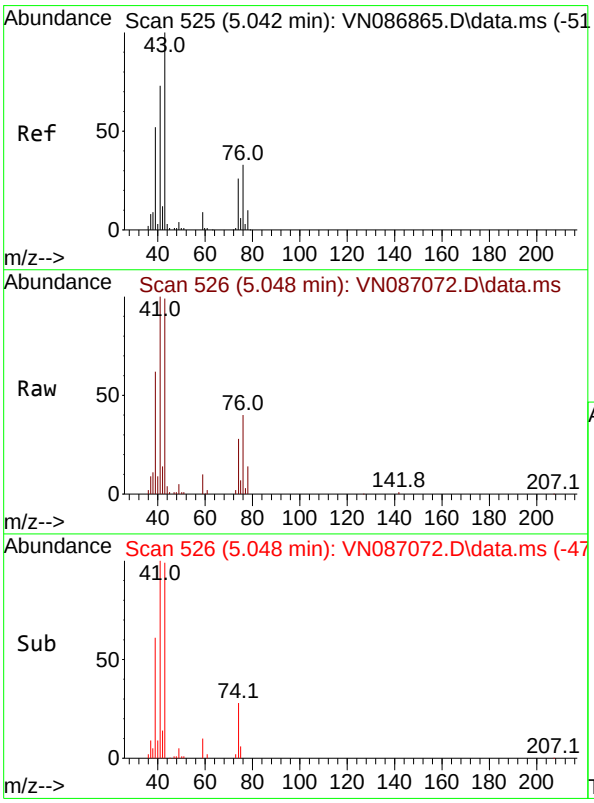
#17
Carbon Disulfide
Concen: 56.169 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 289711

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

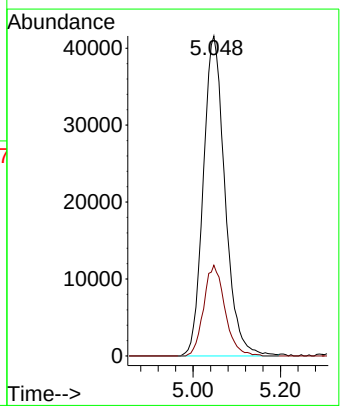


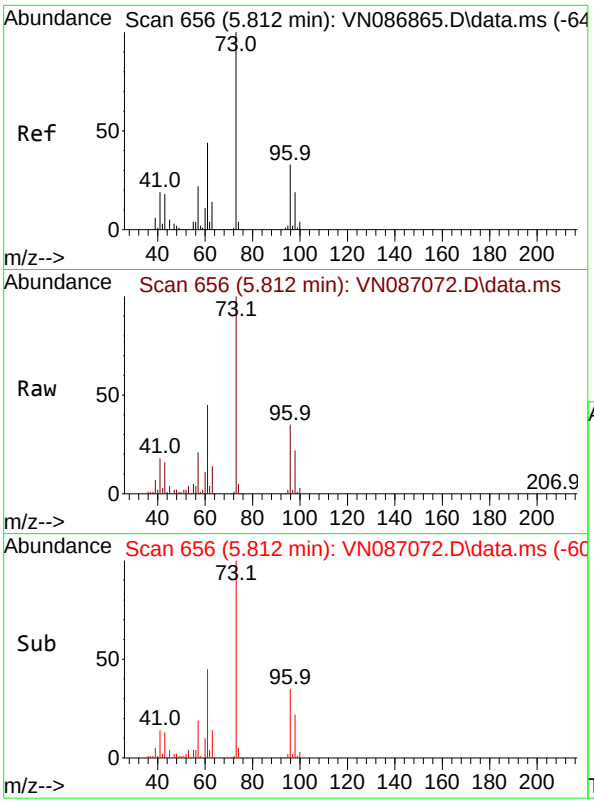


#18
Methyl Acetate
Concen: 41.442 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 43 Resp: 143655

Ion	Ratio	Lower	Upper
43	100		
74	27.7	20.7	31.1



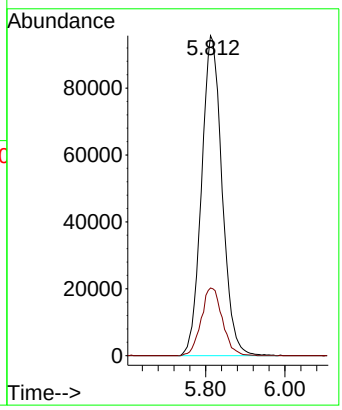


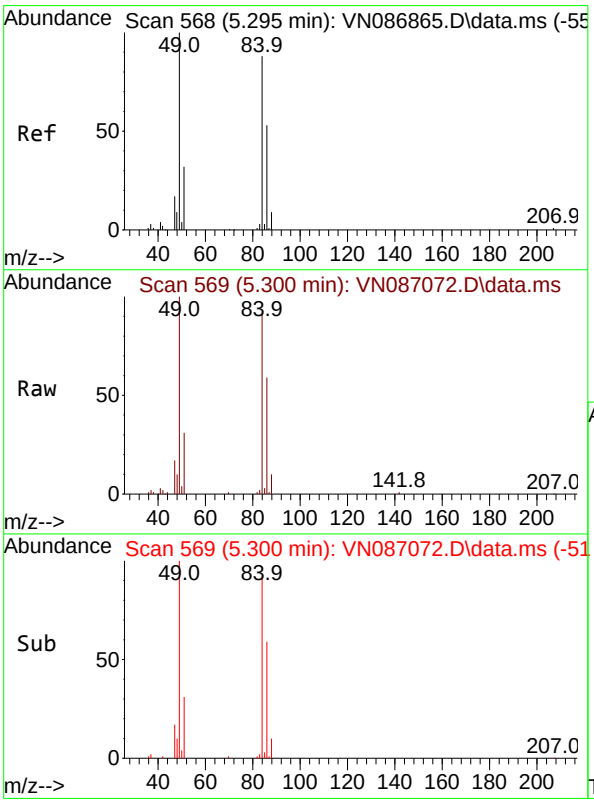
#19
Methyl tert-butyl Ether
Concen: 50.844 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 343279

Ion	Ratio	Lower	Upper
73	100		
57	21.1	17.4	26.2

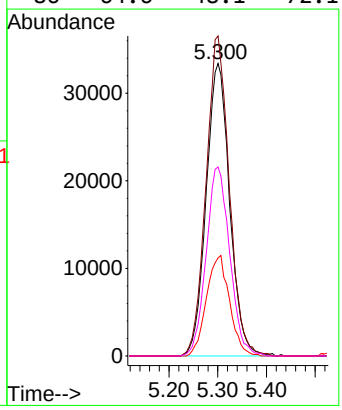


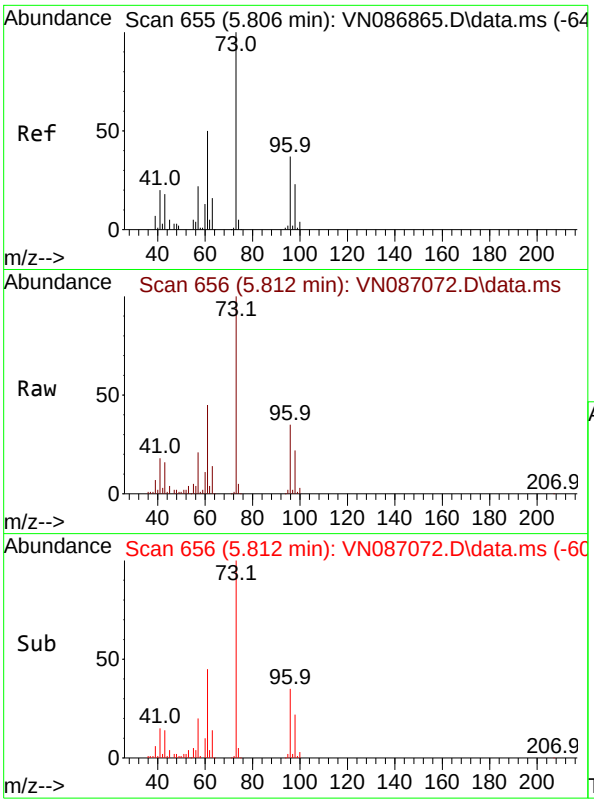


#20
Methylene Chloride
Concen: 50.236 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 84 Resp: 111875

Ion	Ratio	Lower	Upper
84	100		
49	109.4	90.5	135.7
51	33.5	28.5	42.7
86	64.6	48.1	72.1



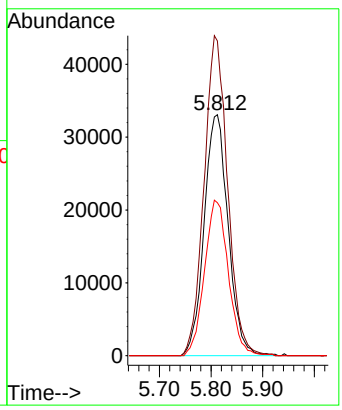


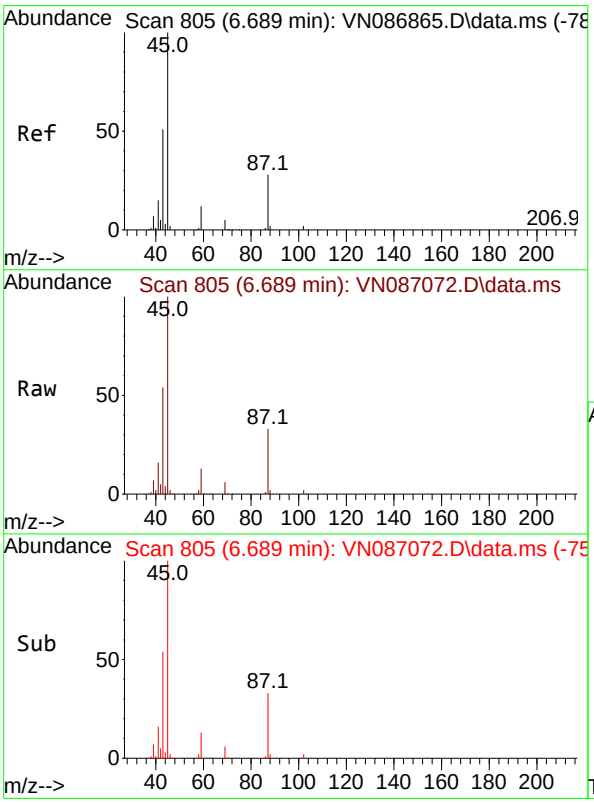
#21
trans-1,2-Dichloroethene
Concen: 51.471 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 106782

Ion	Ratio	Lower	Upper
96	100		
61	130.6	109.2	163.8
98	63.5	49.8	74.8

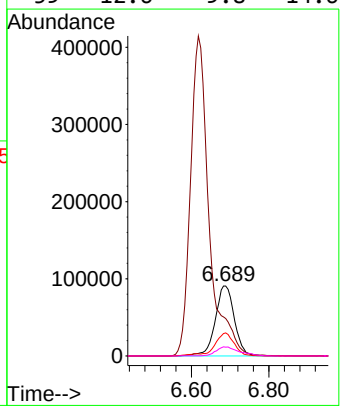


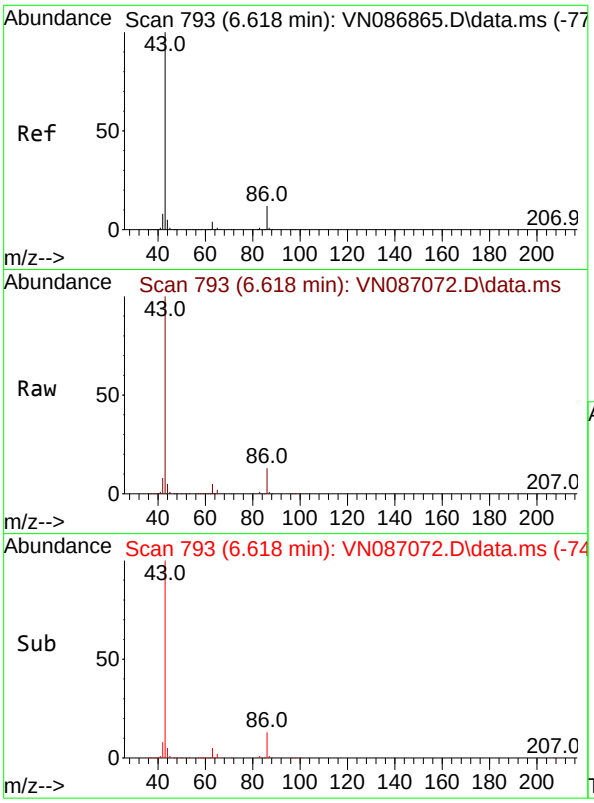


#22
Diisopropyl ether
Concen: 47.606 ug/l
RT: 6.689 min Scan# 805
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 45 Resp: 310324

Ion	Ratio	Lower	Upper
45	100		
43	52.9	41.9	62.9
87	32.9	22.4	33.6
59	12.6	9.8	14.6



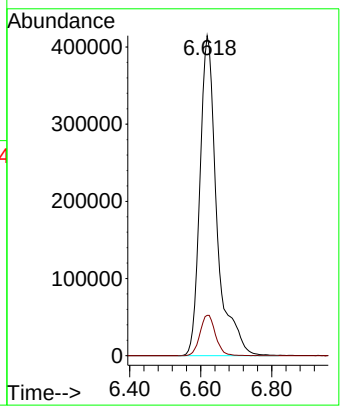


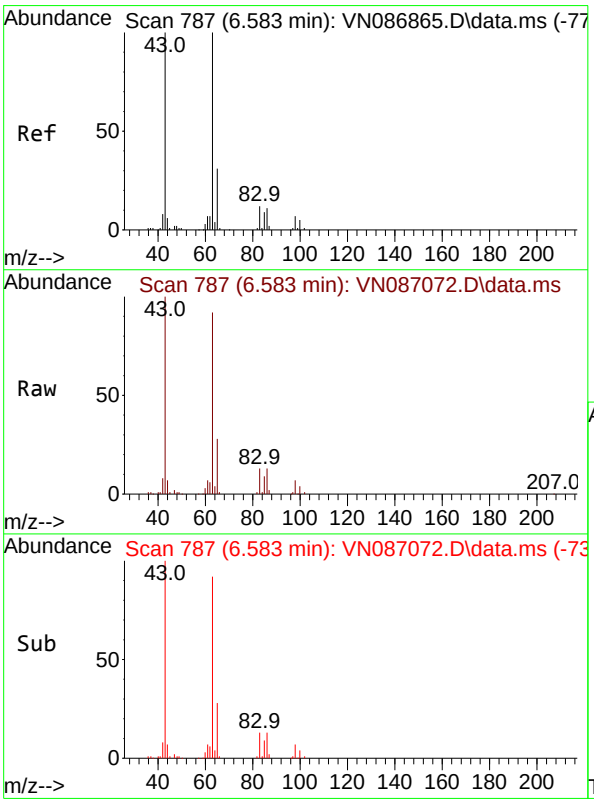
#23
Vinyl Acetate
Concen: 250.103 ug/l
RT: 6.618 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1377448

Ion	Ratio	Lower	Upper
43	100		
86	12.6	9.5	14.3

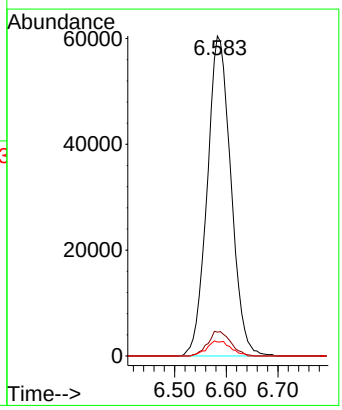


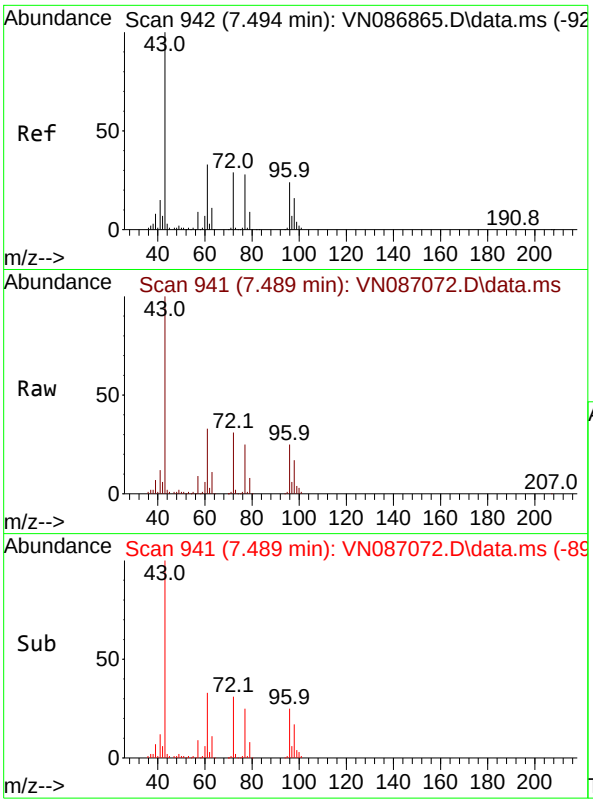


#24
1,1-Dichloroethane
Concen: 51.366 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 63 Resp: 192690

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	4.4	2.6	7.8



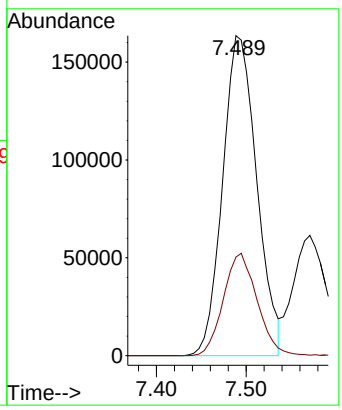


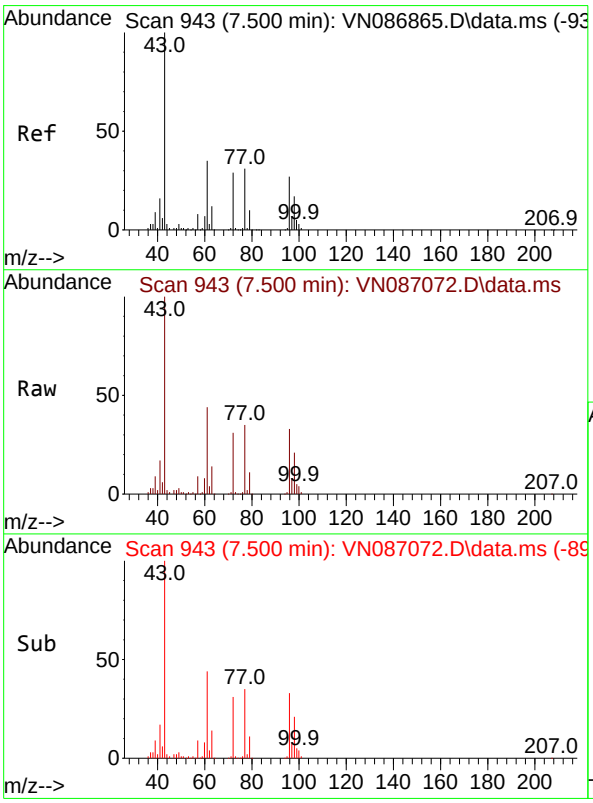
#25
2-Butanone
Concen: 223.445 ug/l
RT: 7.489 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 432033

Ion	Ratio	Lower	Upper
43	100		
72	30.8	23.0	34.6

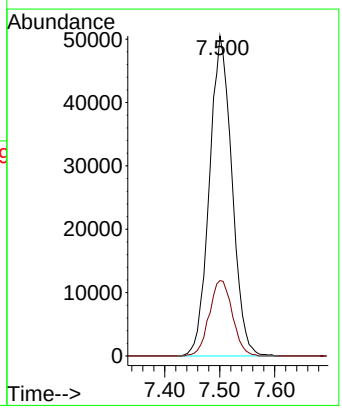


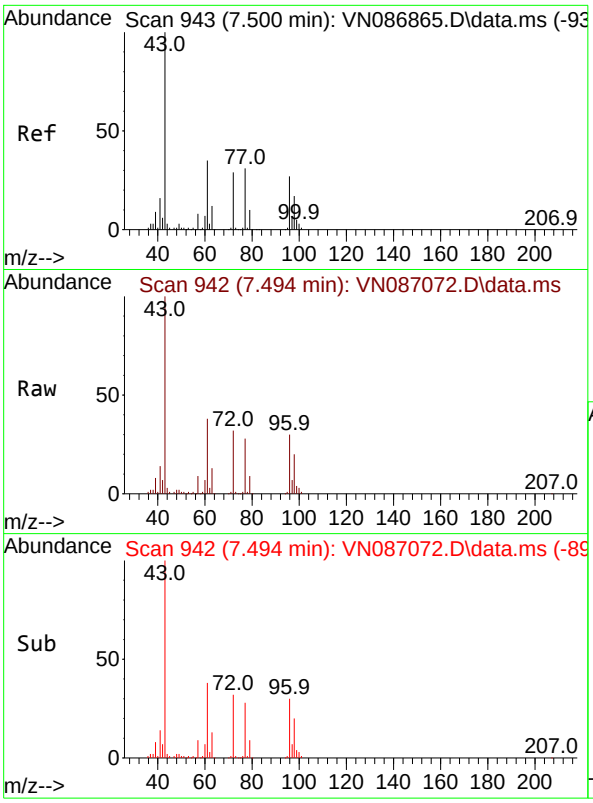


#26
2,2-Dichloropropane
Concen: 49.359 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 77 Resp: 144032

Ion	Ratio	Lower	Upper
77	100		
97	24.2	11.6	34.7



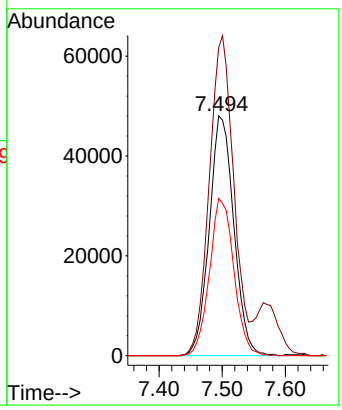


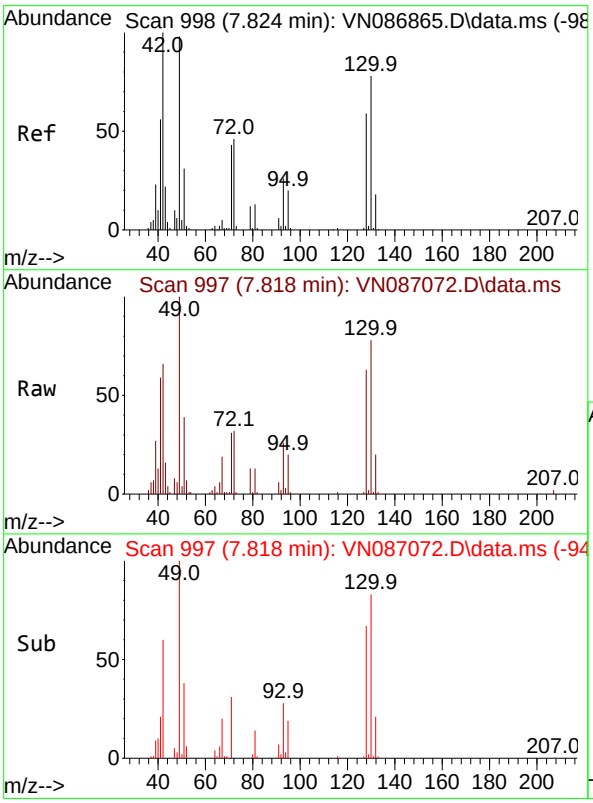
#27
cis-1,2-Dichloroethene
Concen: 52.279 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 129711

Ion	Ratio	Lower	Upper
96	100		
61	133.7	0.0	278.0
98	65.2	0.0	128.2

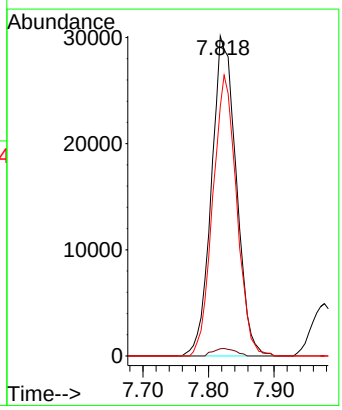


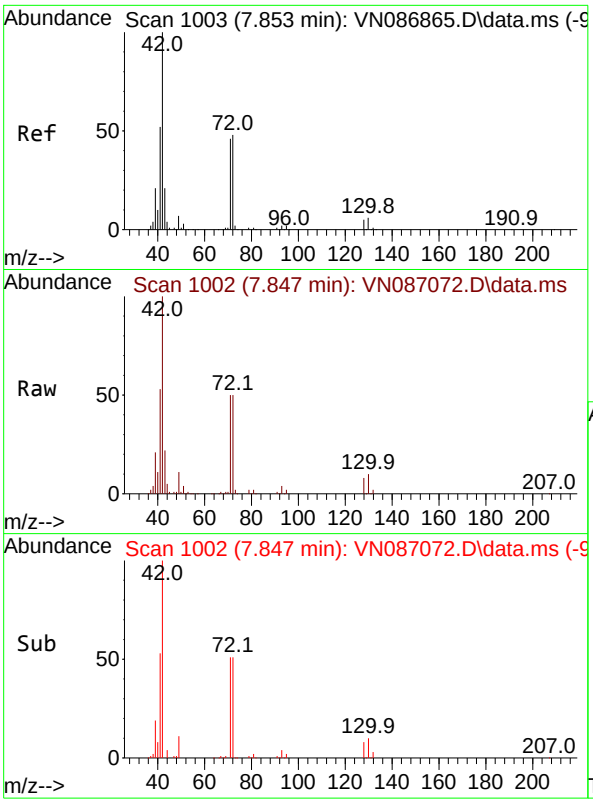


#28
Bromochloromethane
Concen: 42.878 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 49 Resp: 79087

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	3.8
130	84.3	62.2	93.2



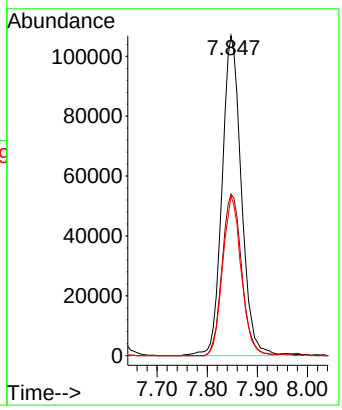


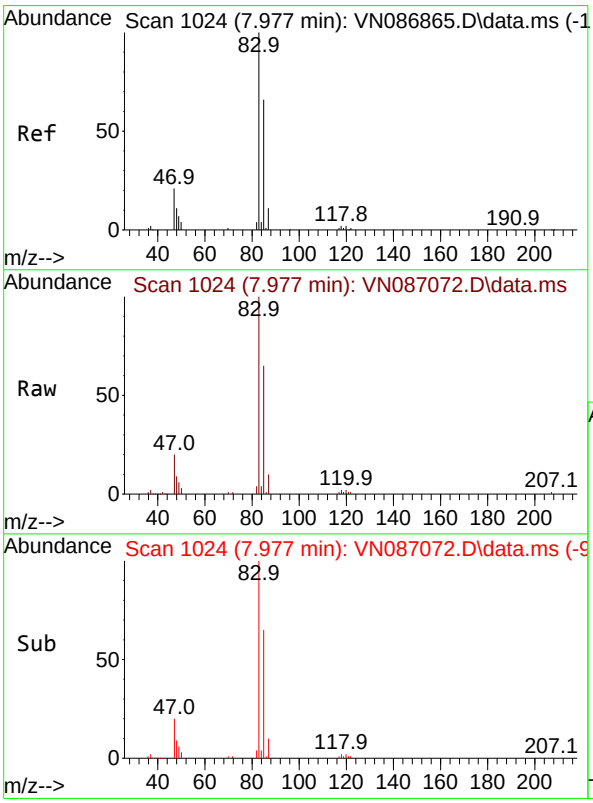
#29
Tetrahydrofuran
Concen: 226.717 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 285560

Ion	Ratio	Lower	Upper
42	100		
72	51.4	37.8	56.6
71	48.5	35.6	53.4

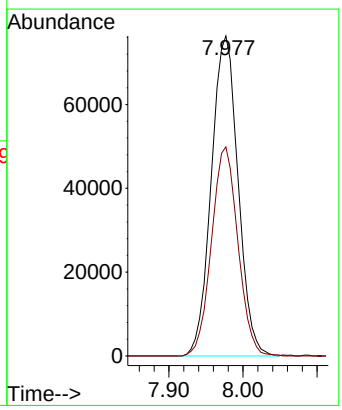


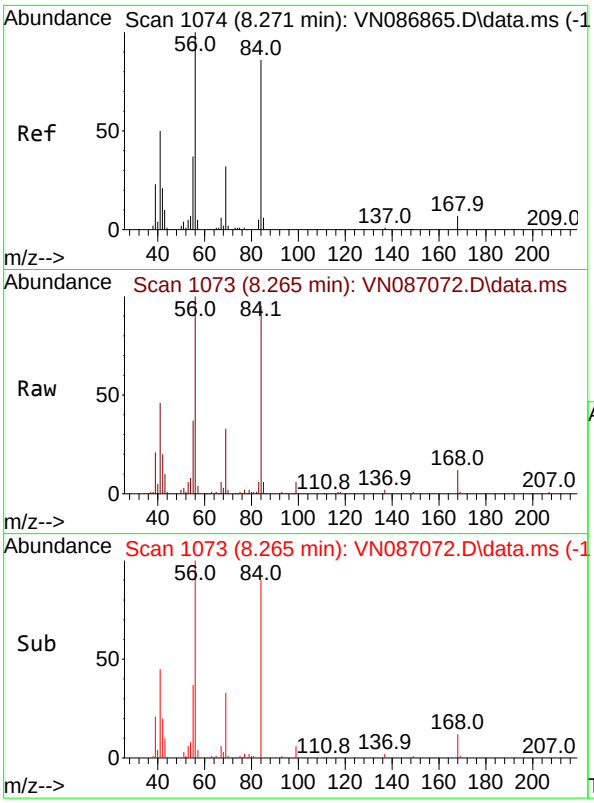


#30
Chloroform
Concen: 51.071 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 83 Resp: 191328

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.9	79.3



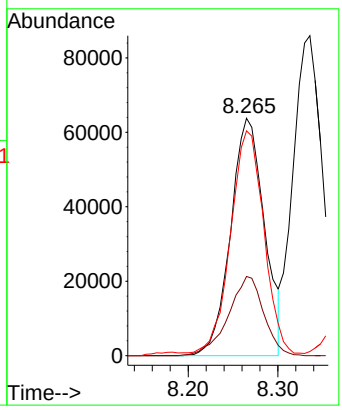


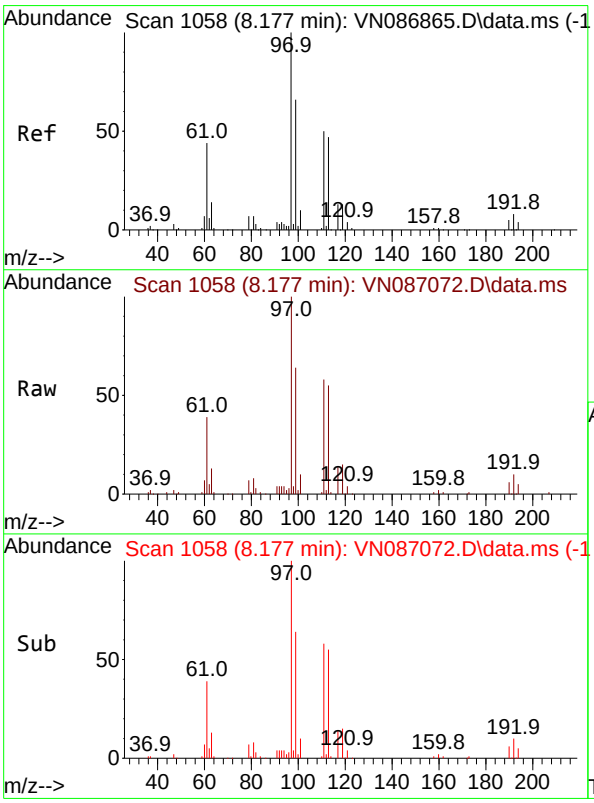
#31
Cyclohexane
Concen: 45.871 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 166881

Ion	Ratio	Lower	Upper
56	100		
69	33.1	25.4	38.0
84	93.6	68.8	103.2

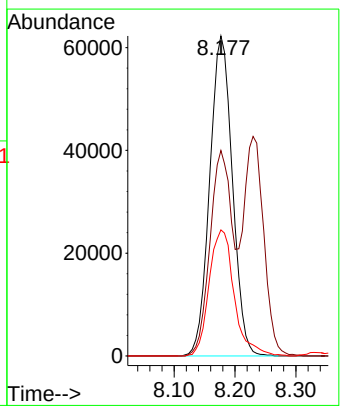


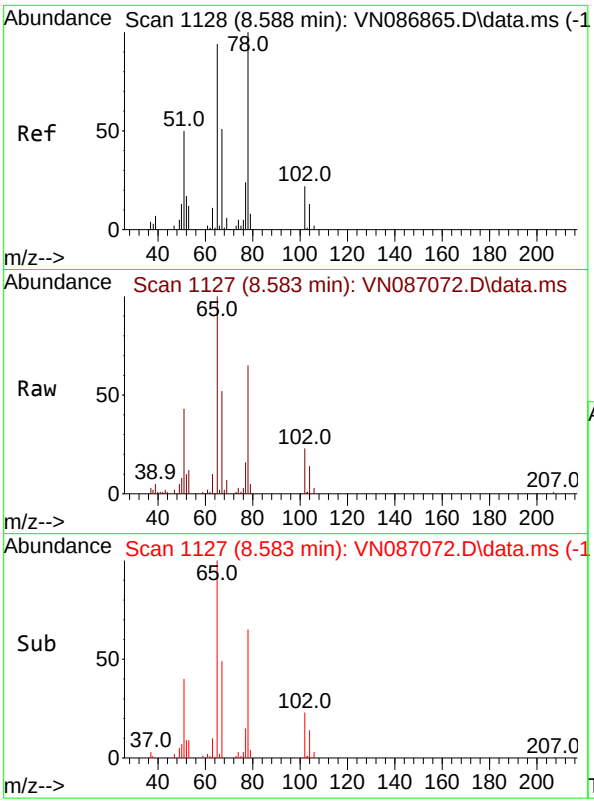


#32
1,1,1-Trichloroethane
Concen: 50.523 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 97 Resp: 160982

Ion	Ratio	Lower	Upper
97	100		
99	61.2	52.0	78.0
61	43.6	35.9	53.9



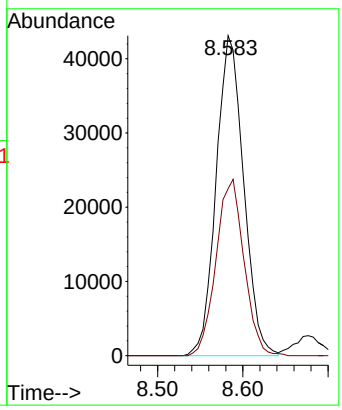


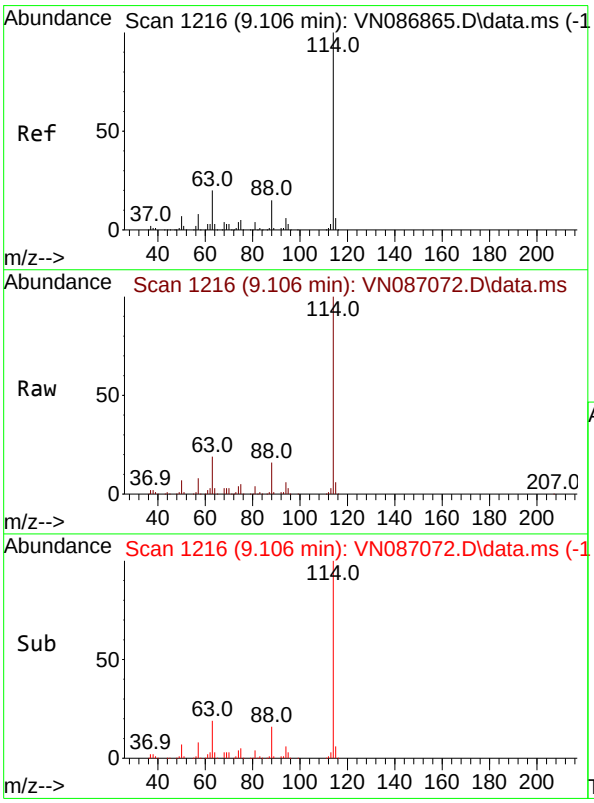
#33
1,2-Dichloroethane-d4
Concen: 43.049 ug/l
RT: 8.583 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 96562

Ion	Ratio	Lower	Upper
65	100		
67	56.1	0.0	105.6

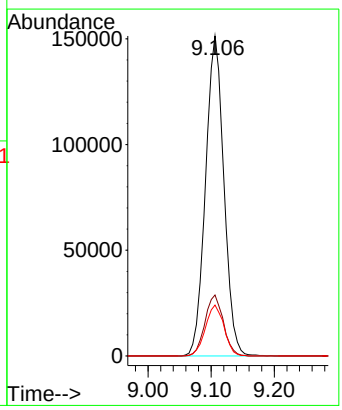


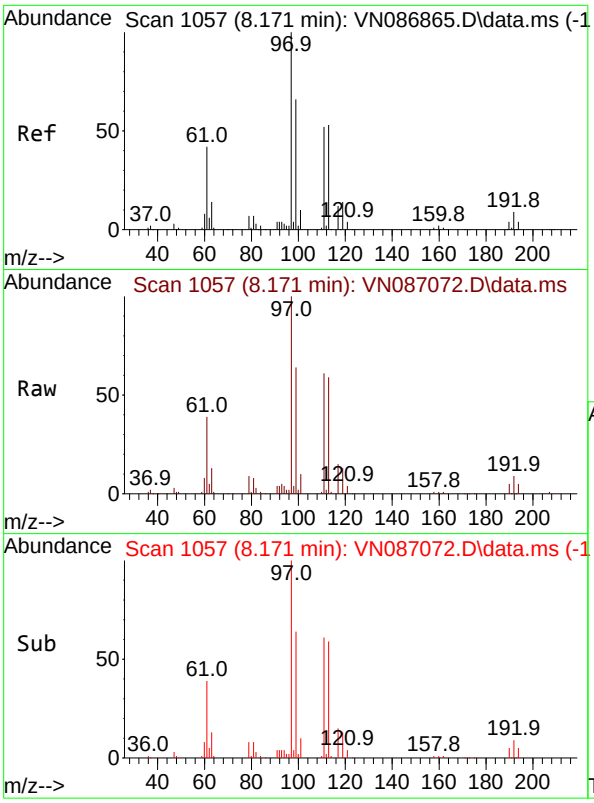


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:114 Resp: 306106

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	39.6
88	15.9	0.0	30.2



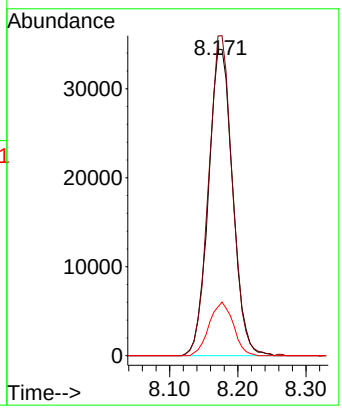


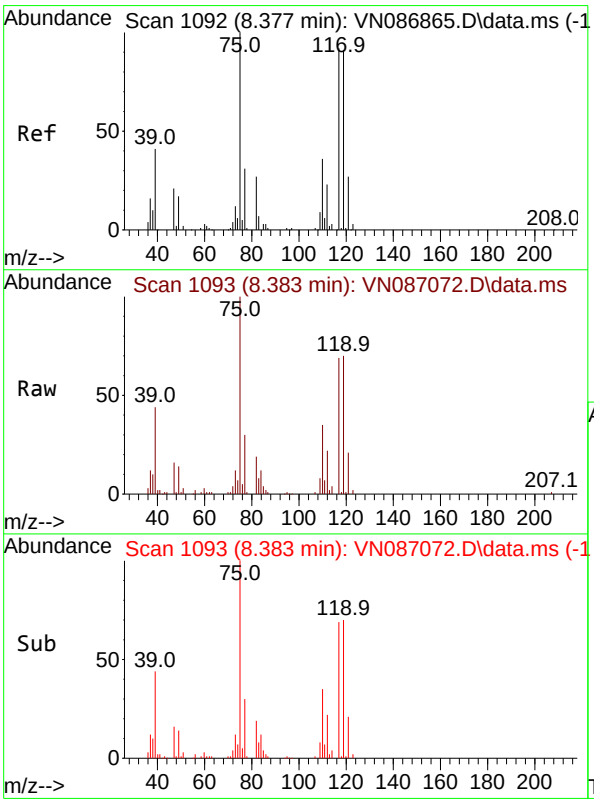
#35
Dibromofluoromethane
Concen: 47.004 ug/l
RT: 8.171 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 85268

Ion	Ratio	Lower	Upper
113	100		
111	102.1	84.2	126.2
192	17.4	14.2	21.4

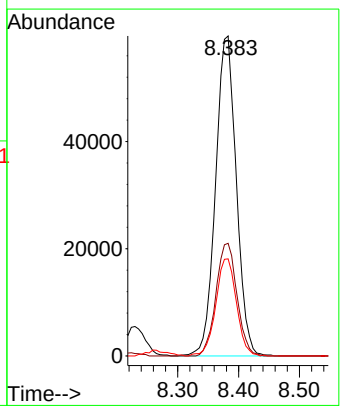


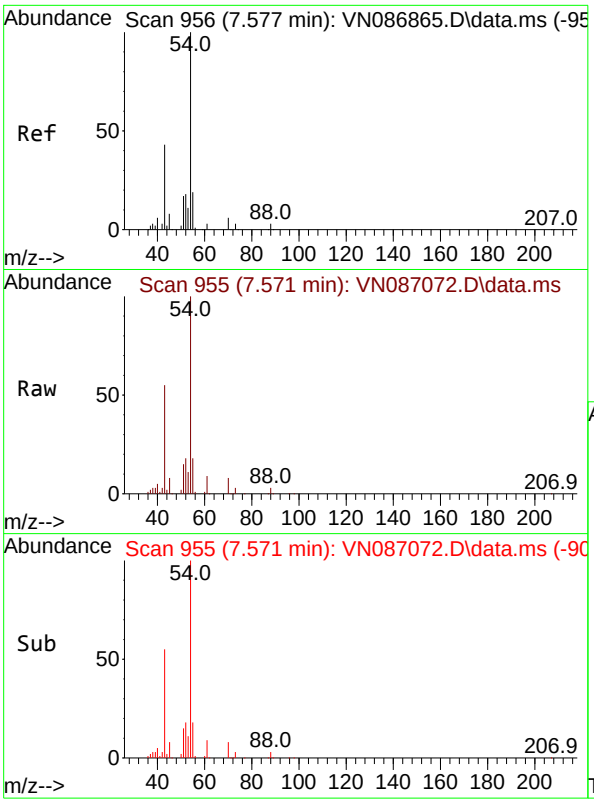


#36
1,1-Dichloropropene
Concen: 52.347 ug/l
RT: 8.383 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 75 Resp: 141500

Ion	Ratio	Lower	Upper
75	100		
110	35.5	17.6	52.9
77	30.2	25.3	37.9



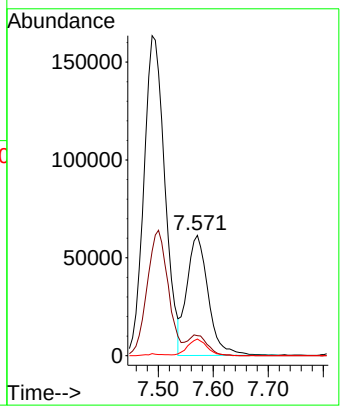


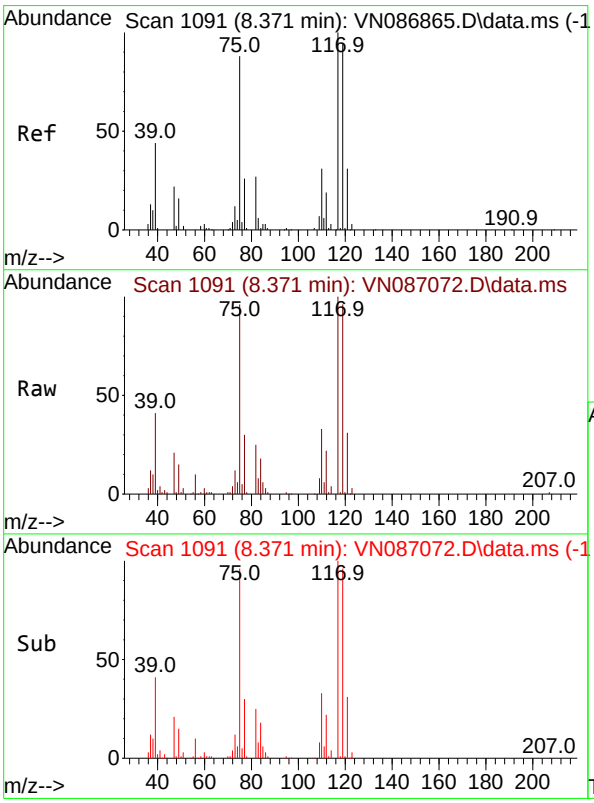
#37
Ethyl Acetate
Concen: 48.087 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 165471

Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.1	18.1
70	12.8	9.8	14.6

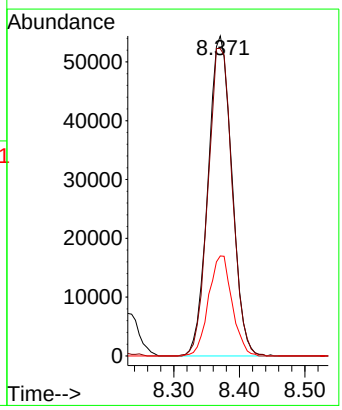


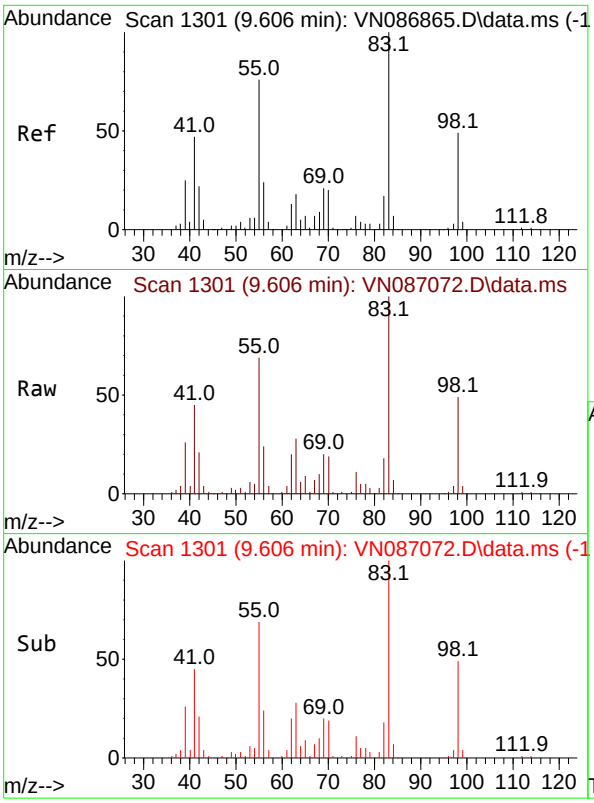


#38
Carbon Tetrachloride
Concen: 51.827 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:117 Resp: 137539

Ion	Ratio	Lower	Upper
117	100		
119	96.0	75.0	112.6
121	31.2	24.9	37.3



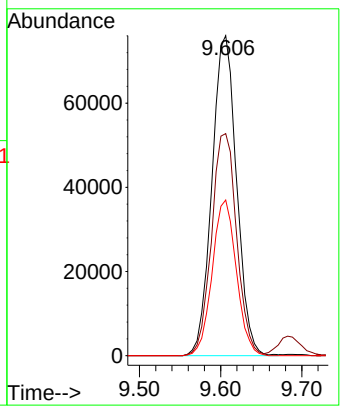


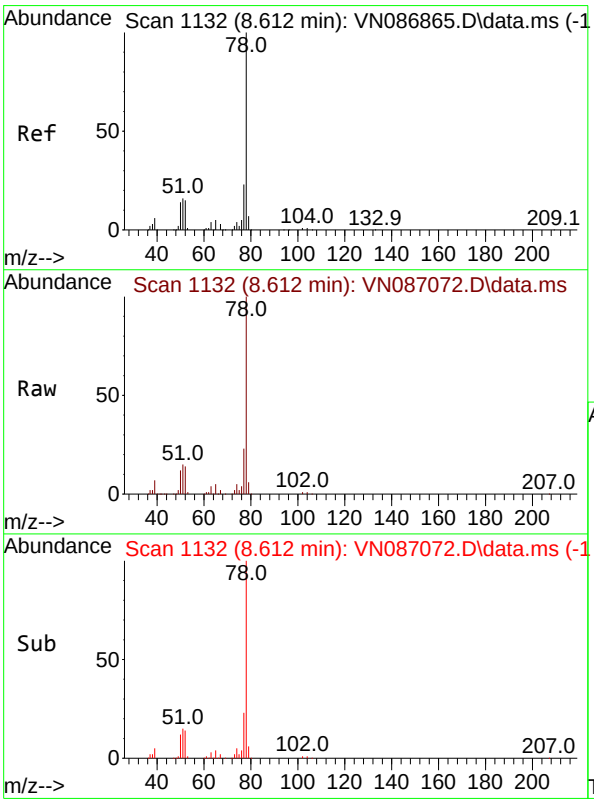
#39
Methylcyclohexane
Concen: 43.354 ug/l
RT: 9.606 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 160557

Ion	Ratio	Lower	Upper
83	100		
55	69.4	61.0	91.6
98	48.6	38.9	58.3

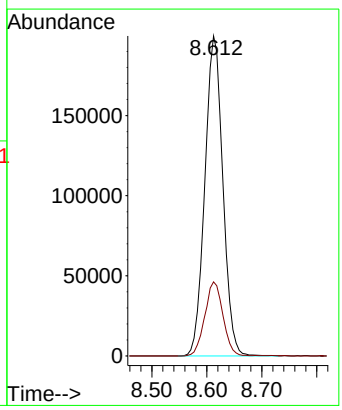


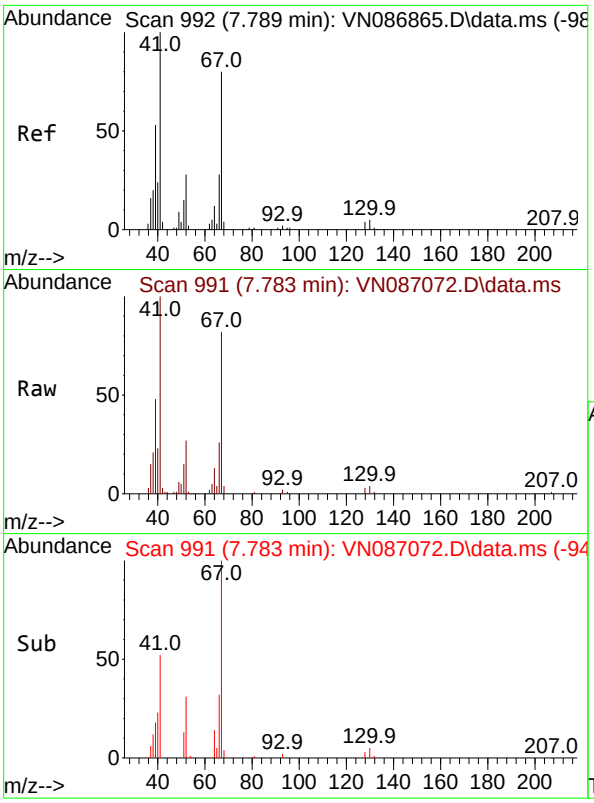


#40
Benzene
Concen: 51.459 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 78 Resp: 454862

Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.7	28.1



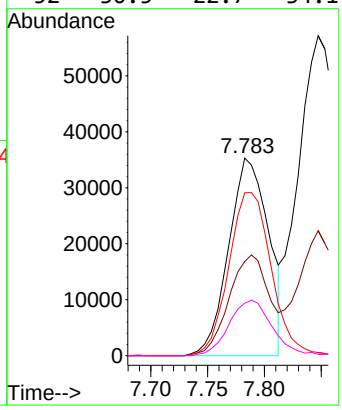


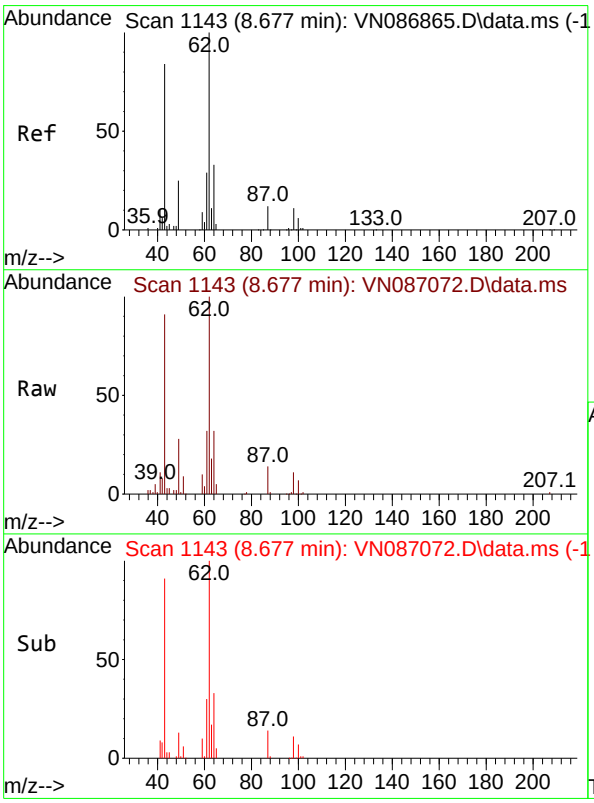
#41
Methacrylonitrile
Concen: 44.676 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 86338

Ion	Ratio	Lower	Upper
41	100		
39	51.1	41.2	61.8
67	88.1	61.4	92.2
52	30.5	22.7	34.1

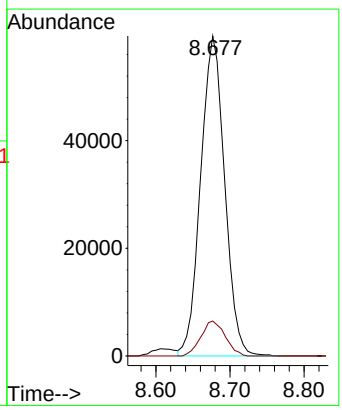


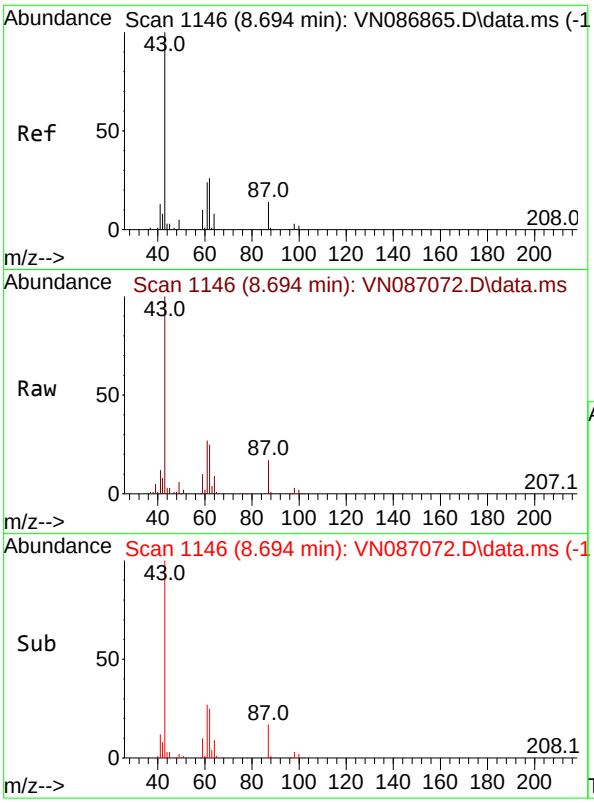


#42
1,2-Dichloroethane
Concen: 49.844 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 62 Resp: 133634

Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	21.2



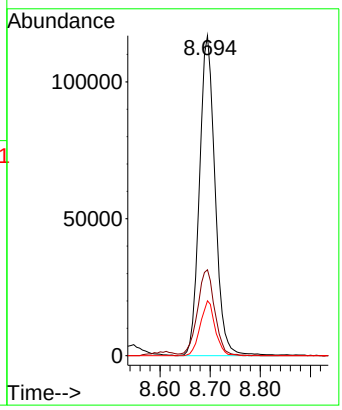


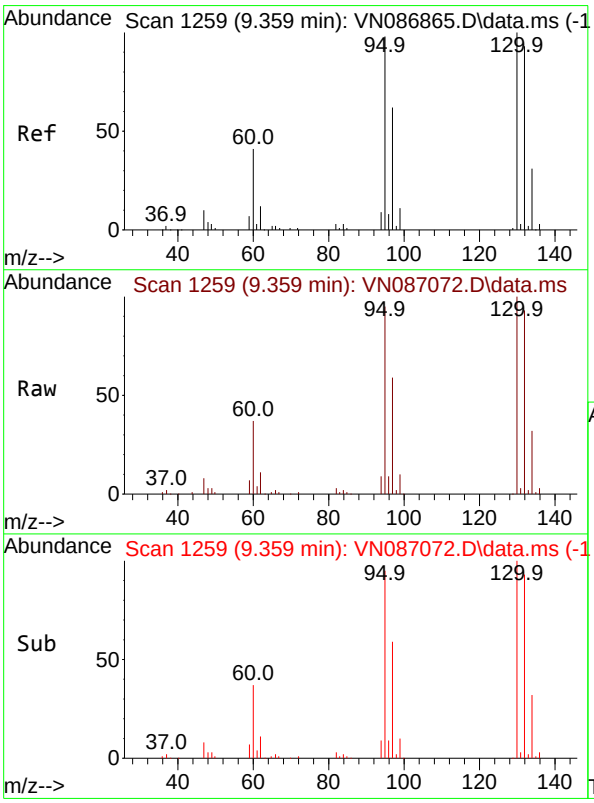
#43
Isopropyl Acetate
Concen: 45.798 ug/l
RT: 8.694 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 252941

Ion	Ratio	Lower	Upper
43	100		
61	29.8	22.1	33.1
87	16.4	11.8	17.6

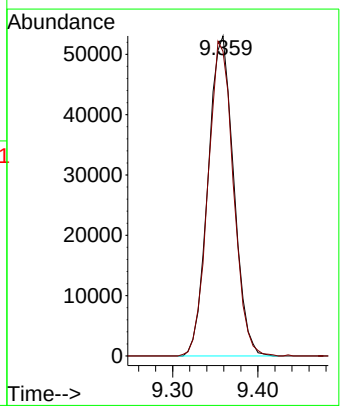


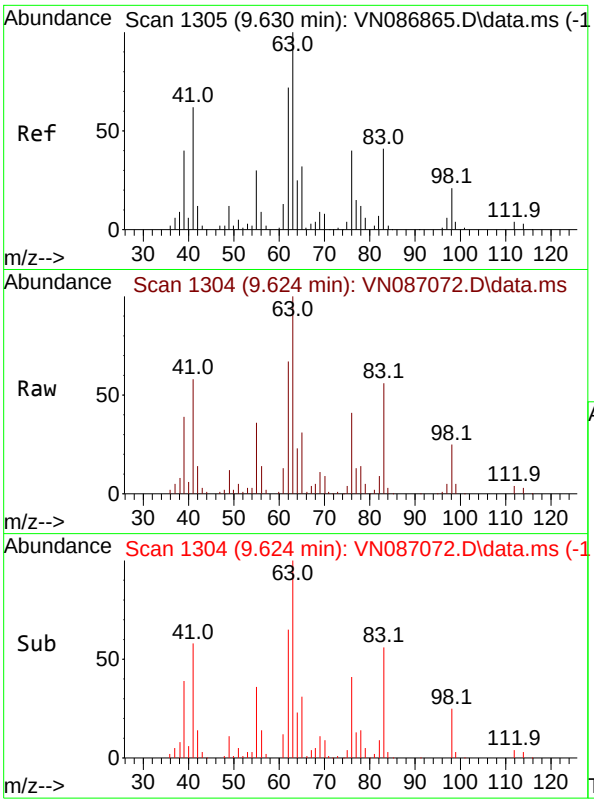


#44
Trichloroethene
Concen: 52.953 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:130 Resp: 110988

Ion	Ratio	Lower	Upper
130	100		
95	95.2	0.0	196.2



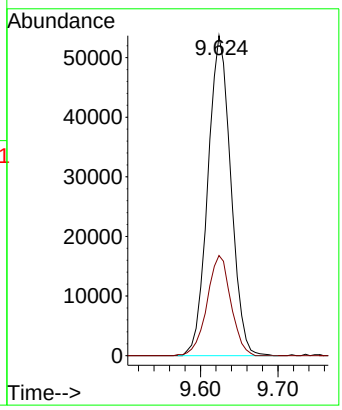


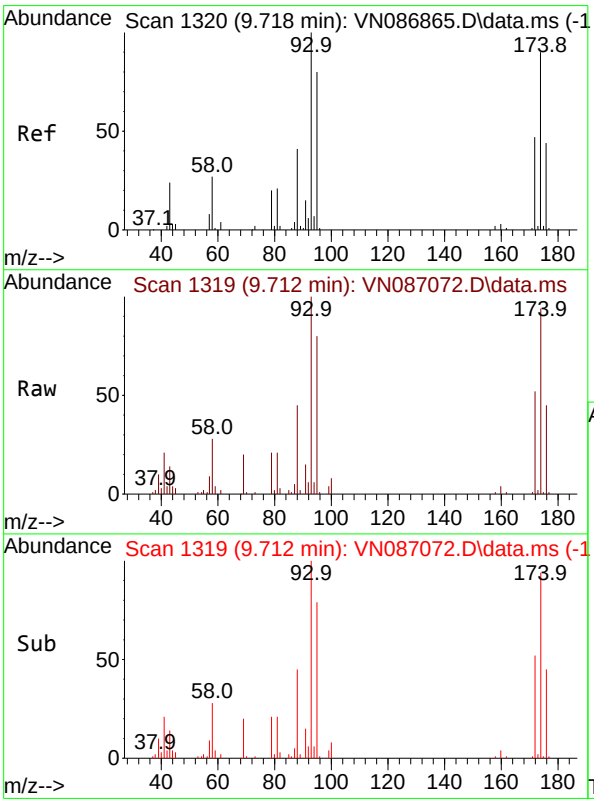
#45
1,2-Dichloropropane
Concen: 51.342 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 110409

Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.5	38.3

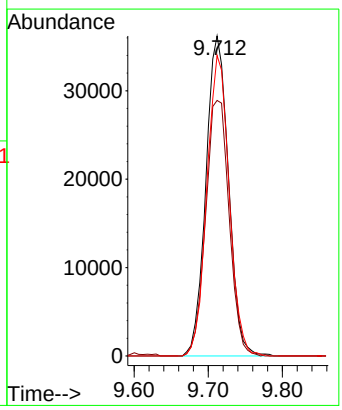


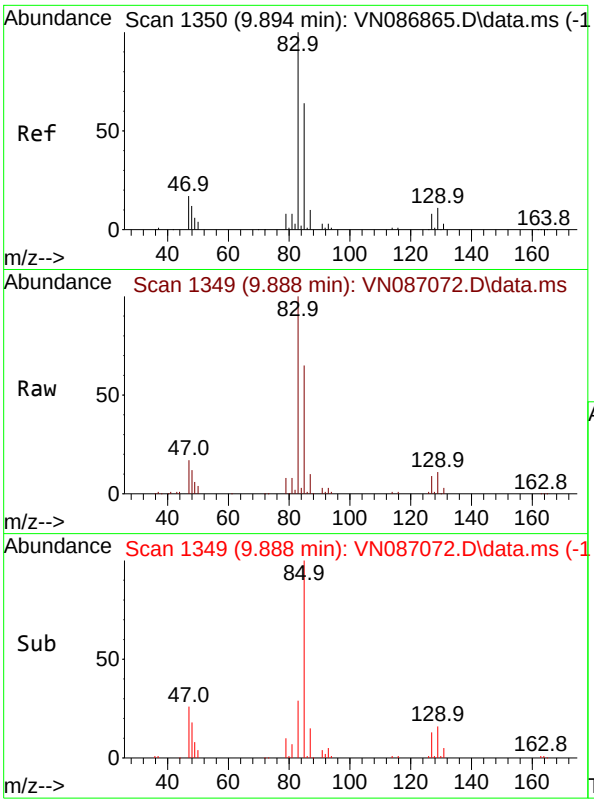


#46
Dibromomethane
Concen: 53.815 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 93 Resp: 76868

Ion	Ratio	Lower	Upper
93	100		
95	82.9	67.1	100.7
174	92.4	74.2	111.4



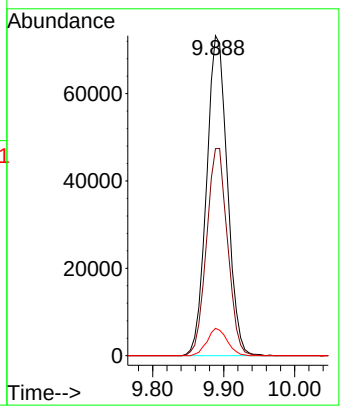


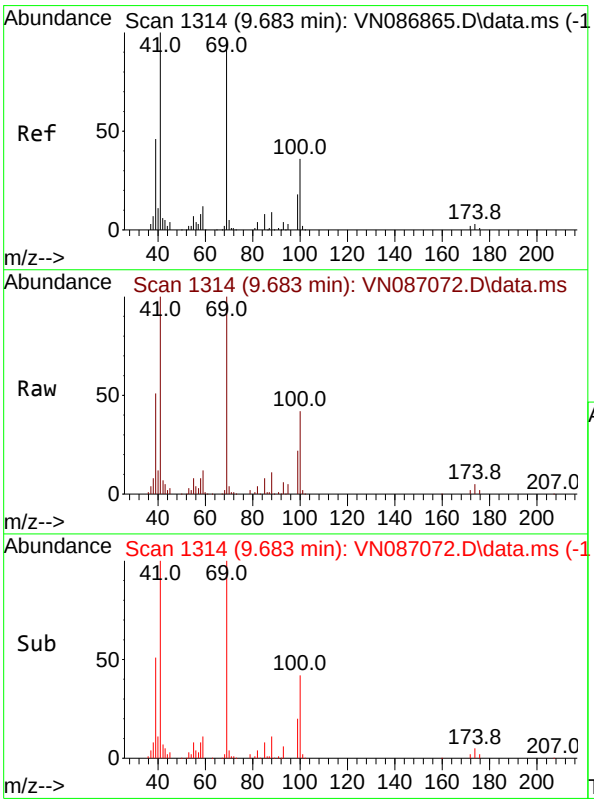
#47
Bromodichloromethane
Concen: 50.600 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 148705

Ion	Ratio	Lower	Upper
83	100		
85	64.7	50.9	76.3
127	8.5	6.6	10.0

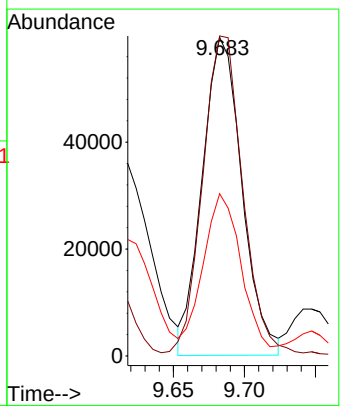


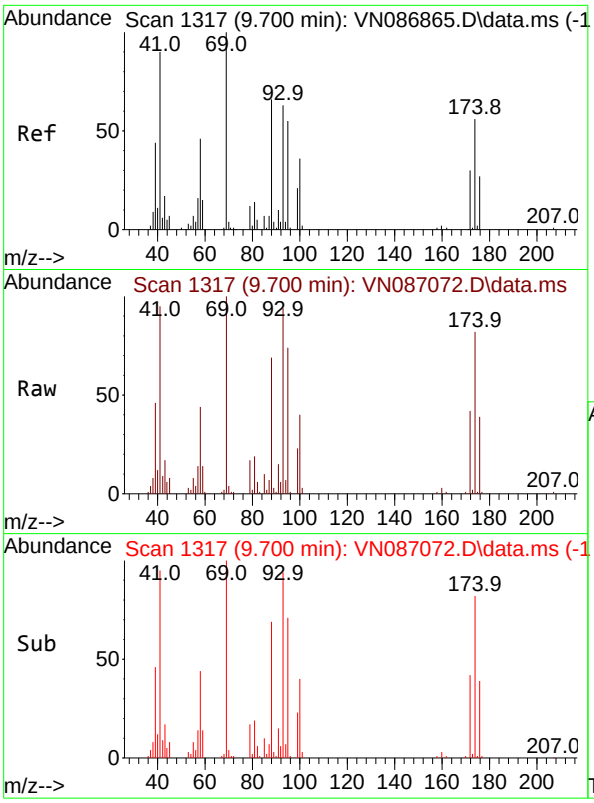


#48
Methyl methacrylate
Concen: 45.478 ug/l
RT: 9.683 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 41 Resp: 115606

Ion	Ratio	Lower	Upper
41	100		
69	102.3	74.6	112.0
39	50.4	40.2	60.4



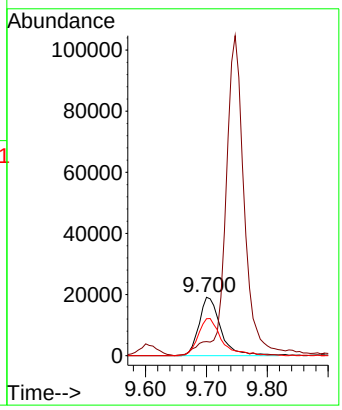


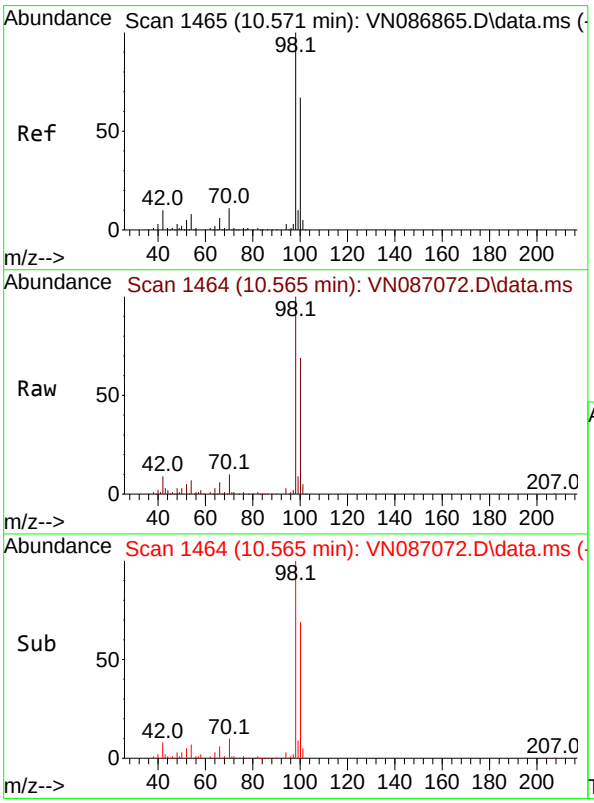
#49
1,4-Dioxane
Concen: 1023.116 ug/l
RT: 9.700 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 47314

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	69.3	57.7	86.5

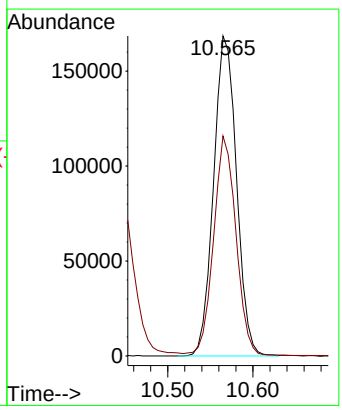


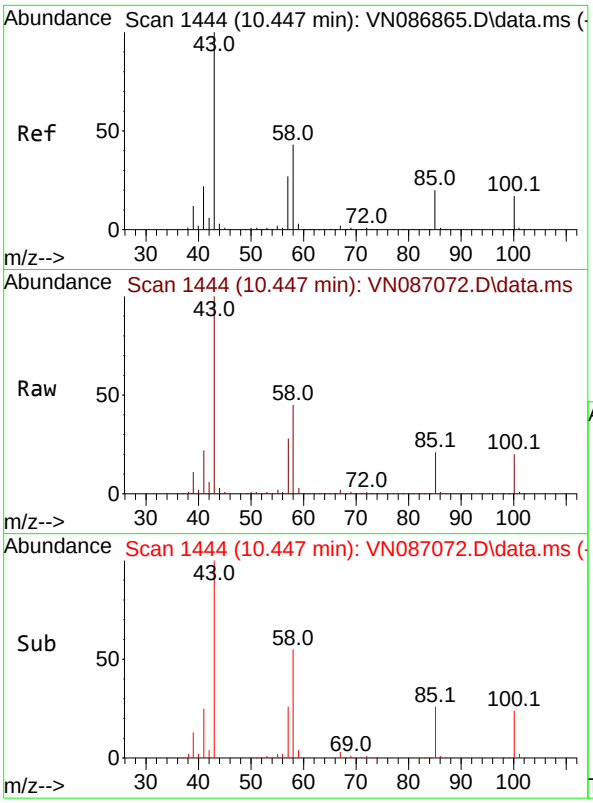


#50
Toluene-d8
Concen: 43.912 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 98 Resp: 315347

Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.4	80.0



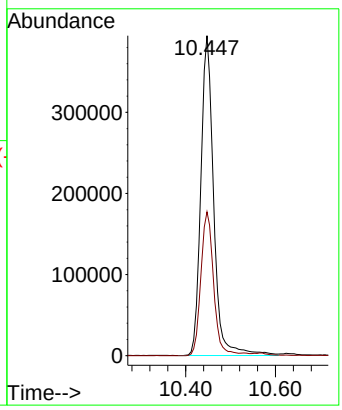


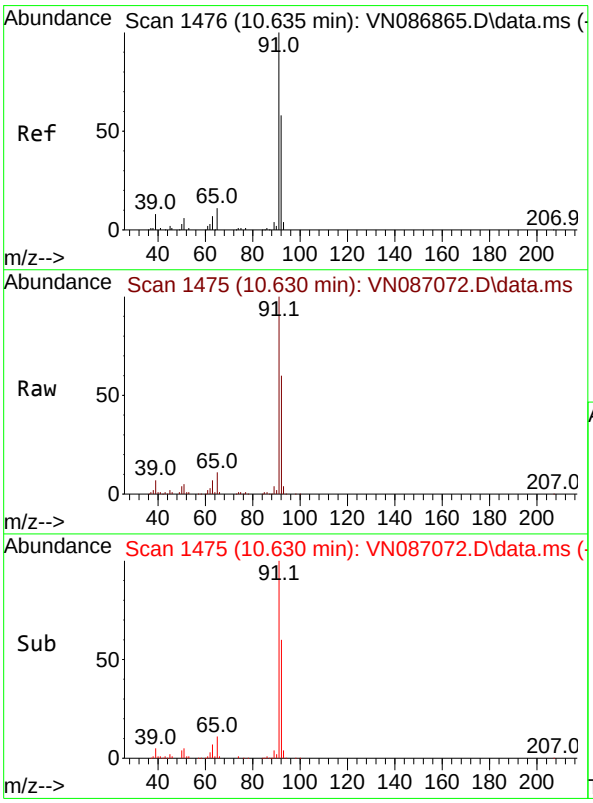
#51
4-Methyl-2-Pentanone
Concen: 236.369 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 785897

Ion	Ratio	Lower	Upper
43	100		
58	44.9	34.2	51.4

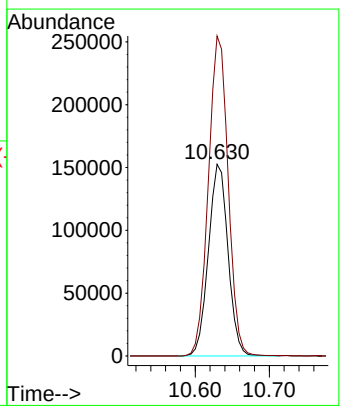


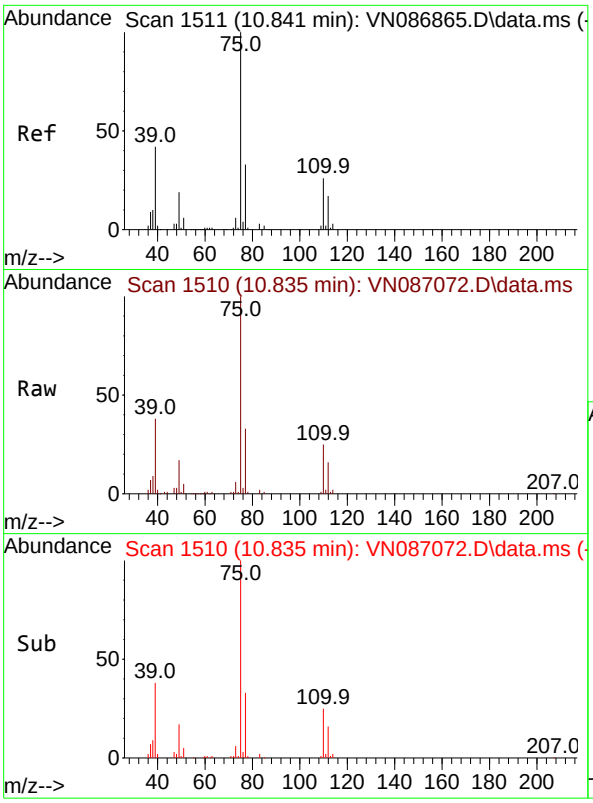


#52
Toluene
Concen: 51.889 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 92 Resp: 280299

Ion	Ratio	Lower	Upper
92	100		
91	168.5	136.5	204.7



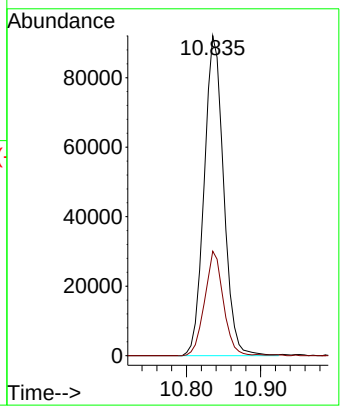


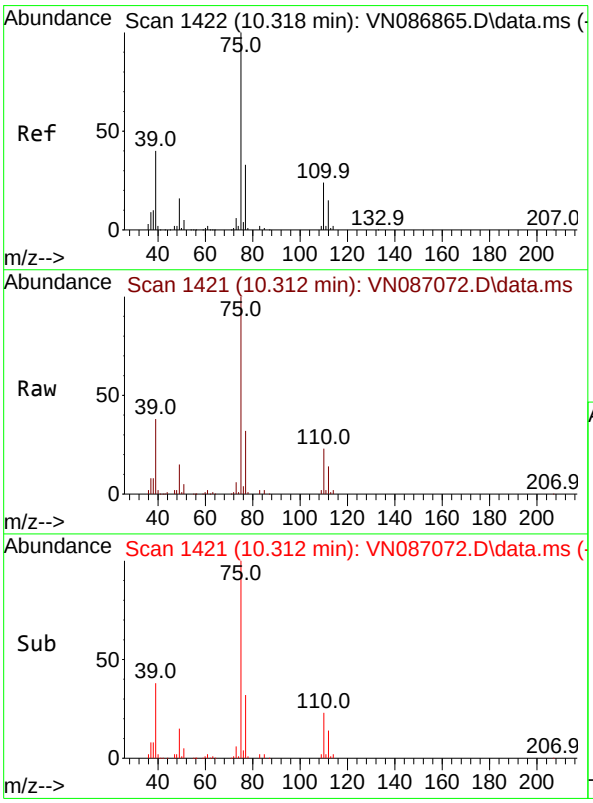
#53
t-1,3-Dichloropropene
Concen: 51.076 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 167848

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.4	39.6

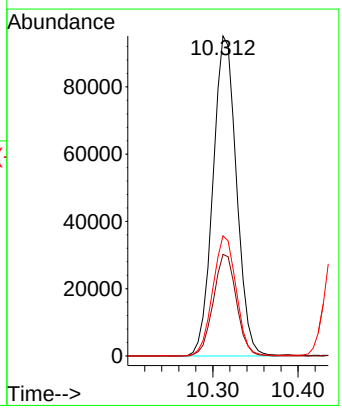


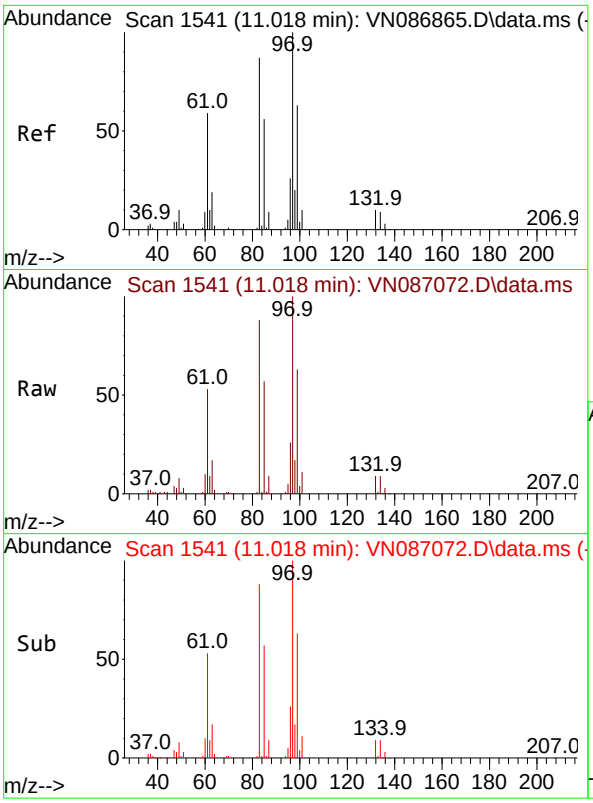


#54
cis-1,3-Dichloropropene
Concen: 51.826 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 75 Resp: 182228

Ion	Ratio	Lower	Upper
75	100		
77	31.7	26.2	39.4
39	37.6	32.3	48.5



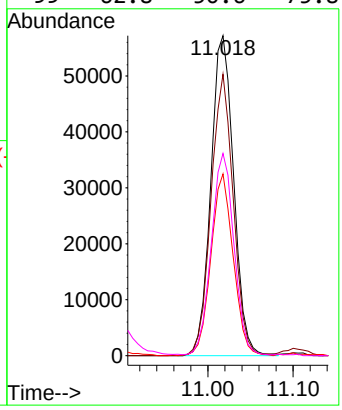


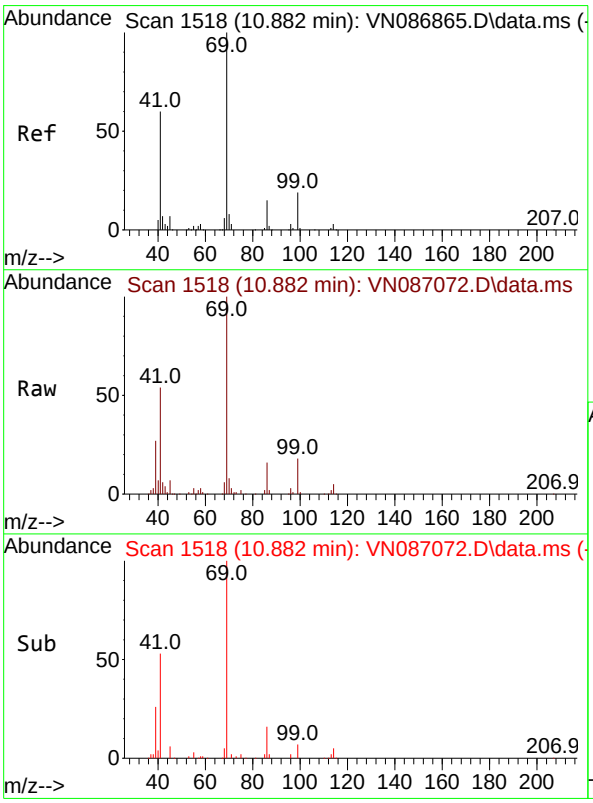
#55
1,1,2-Trichloroethane
Concen: 51.266 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 106560

Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.7	104.5
85	56.8	45.1	67.7
99	62.8	50.6	75.8

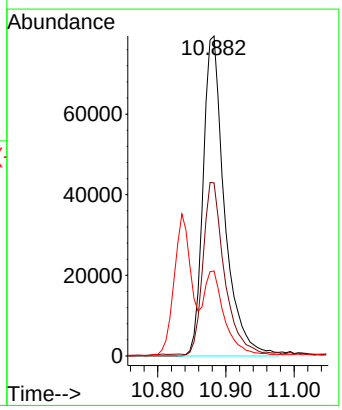


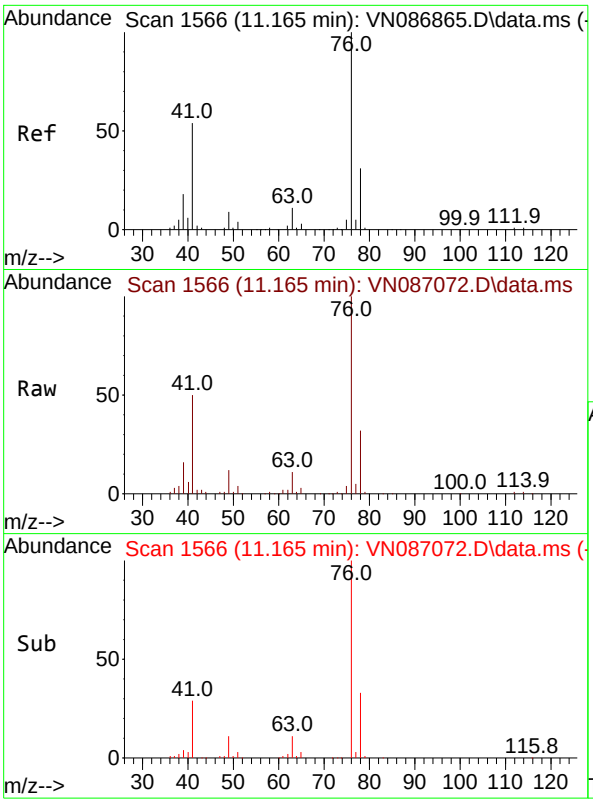


#56
Ethyl methacrylate
Concen: 52.544 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 69 Resp: 173955

Ion	Ratio	Lower	Upper
69	100		
41	53.8	47.2	70.8
39	25.6	23.0	34.6



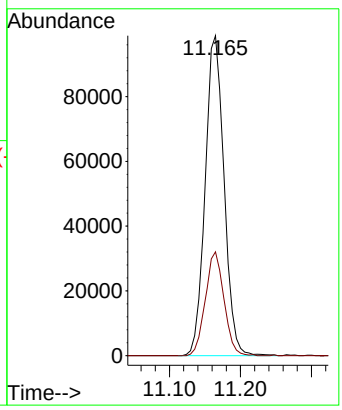


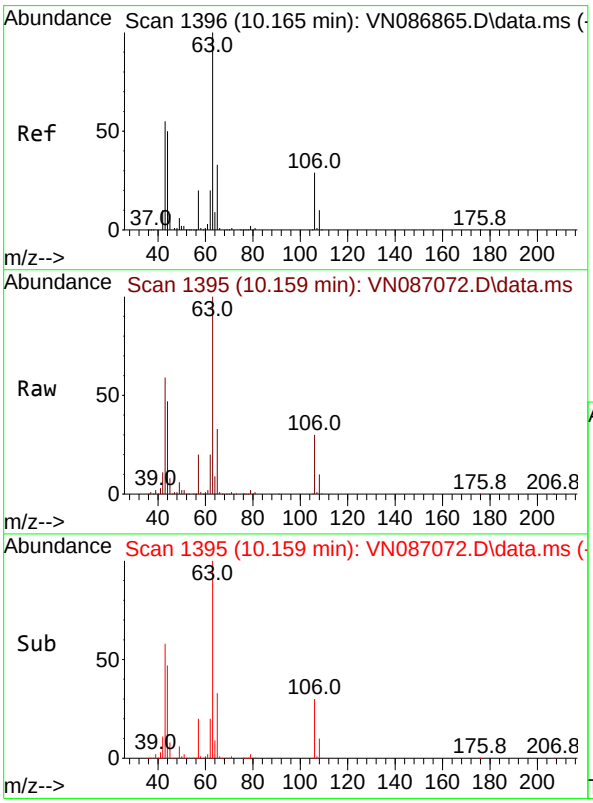
#57
1,3-Dichloropropane
Concen: 50.593 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 182424

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.3	37.9

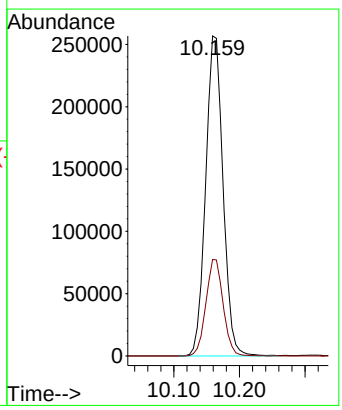


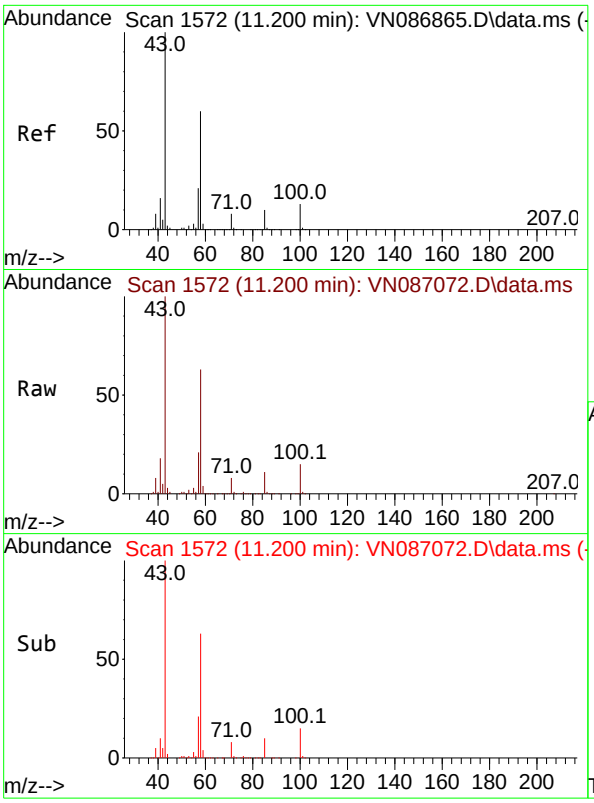


#58
2-Chloroethyl Vinyl ether
Concen: 239.927 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 63 Resp: 473770

Ion	Ratio	Lower	Upper
63	100		
106	29.8	23.0	34.6



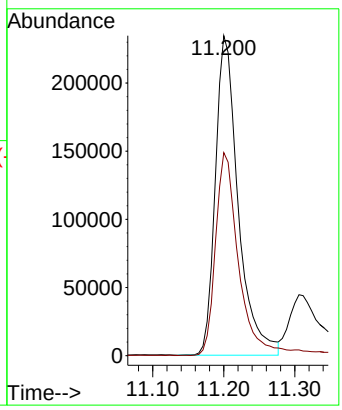


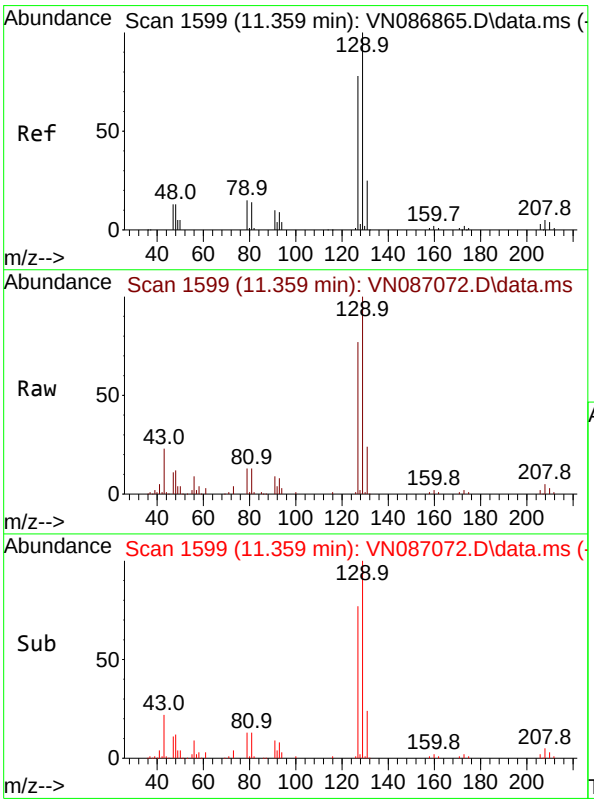
#59
2-Hexanone
Concen: 243.662 ug/l
RT: 11.200 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 521841

Ion	Ratio	Lower	Upper
43	100		
58	66.2	30.4	91.3

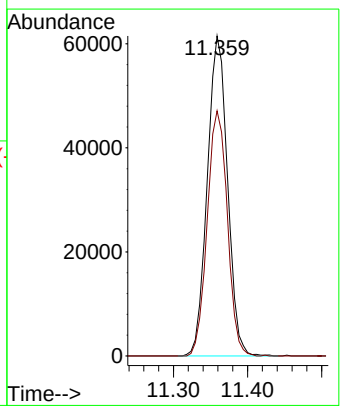


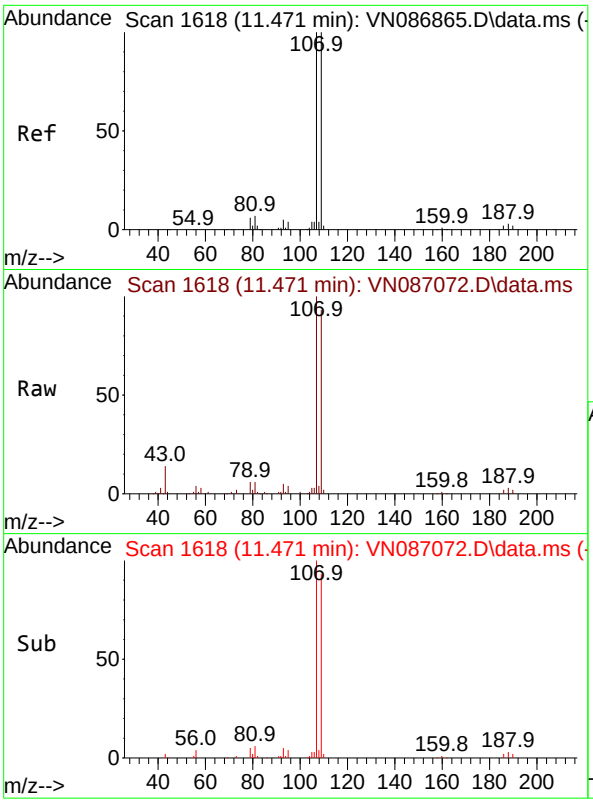


#60
Dibromochloromethane
Concen: 53.772 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:129 Resp: 116451

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.6	115.8



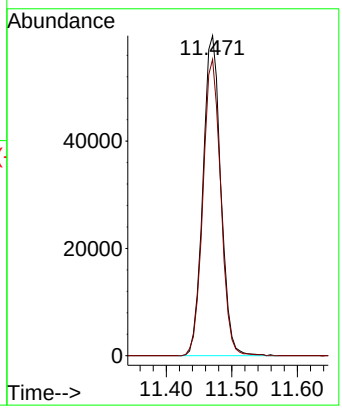


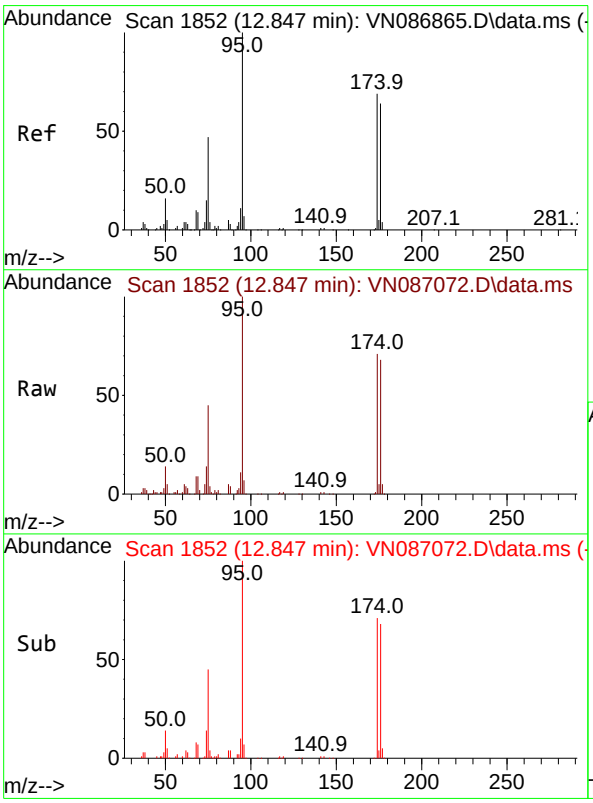
#61
1,2-Dibromoethane
Concen: 52.979 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 112872

Ion	Ratio	Lower	Upper
107	100		
109	92.3	76.3	114.5

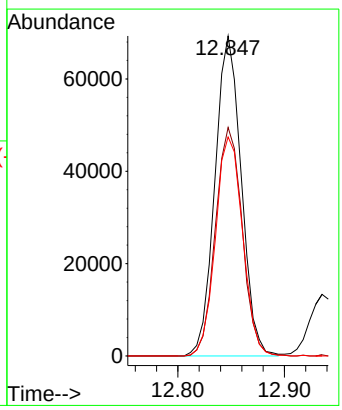


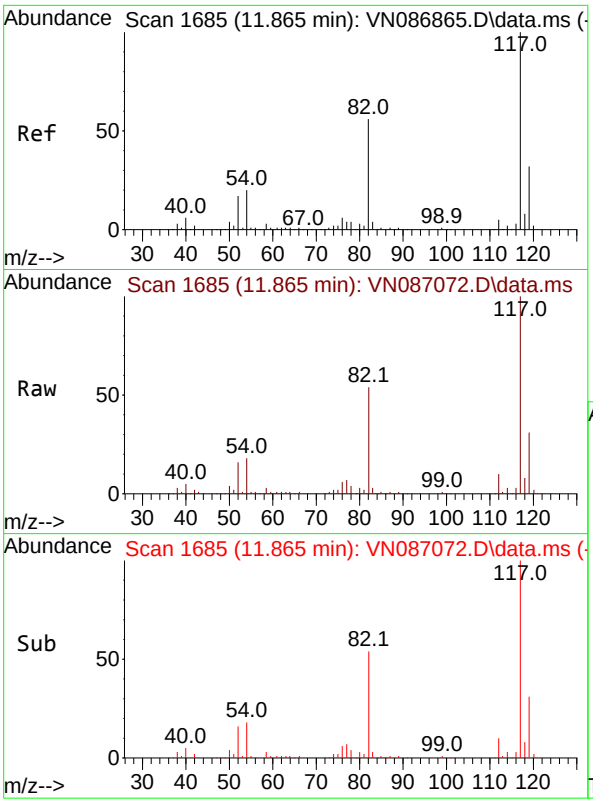


#62
4-Bromofluorobenzene
Concen: 44.575 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 95 Resp: 118929

Ion	Ratio	Lower	Upper
95	100		
174	72.4	0.0	141.8
176	70.6	0.0	132.6



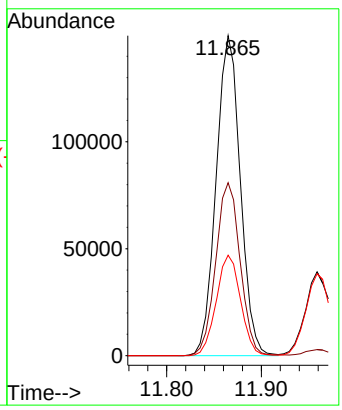


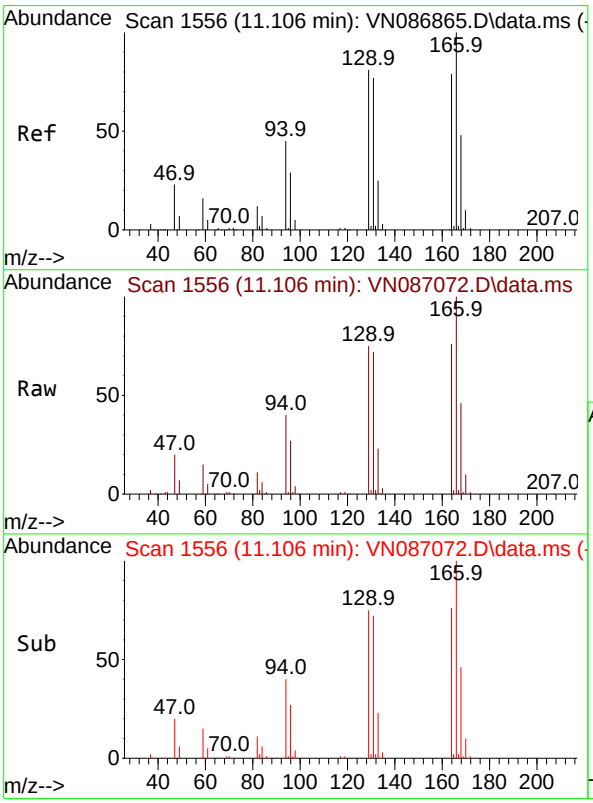
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 265997

Ion	Ratio	Lower	Upper
117	100		
82	54.0	44.6	67.0
119	31.4	25.5	38.3

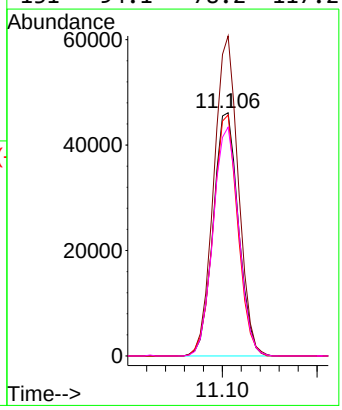


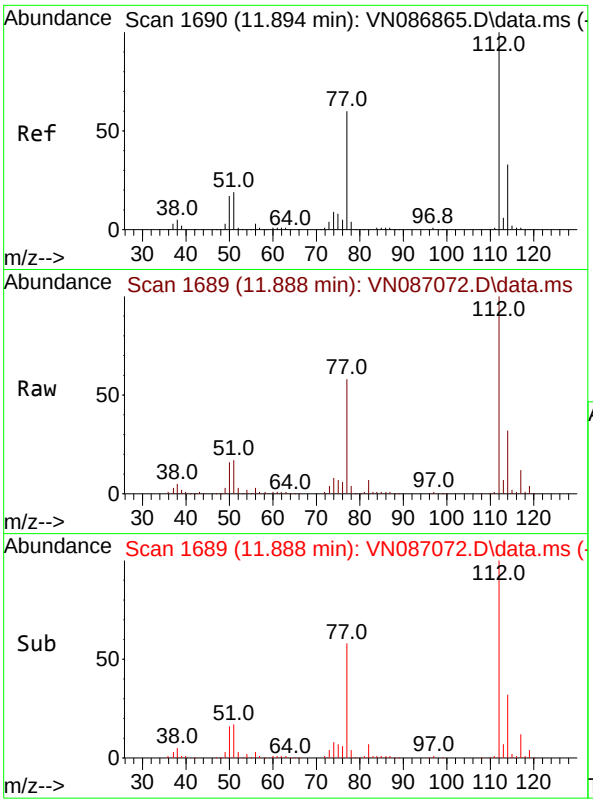


#64
Tetrachloroethene
Concen: 50.712 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:164 Resp: 85369

Ion	Ratio	Lower	Upper
164	100		
166	131.6	101.8	152.8
129	99.1	83.0	124.4
131	94.1	78.2	117.2



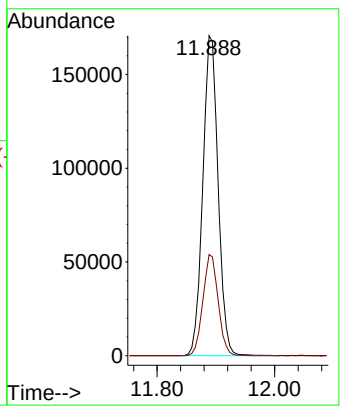


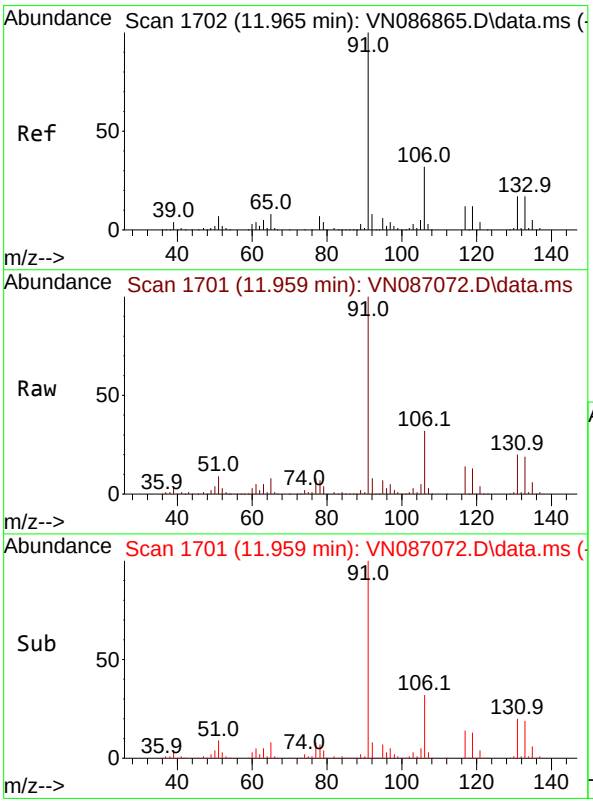
#65
Chlorobenzene
Concen: 52.609 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 308637

Ion	Ratio	Lower	Upper
112	100		
114	31.6	26.2	39.2

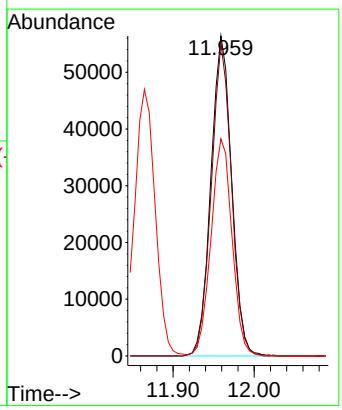


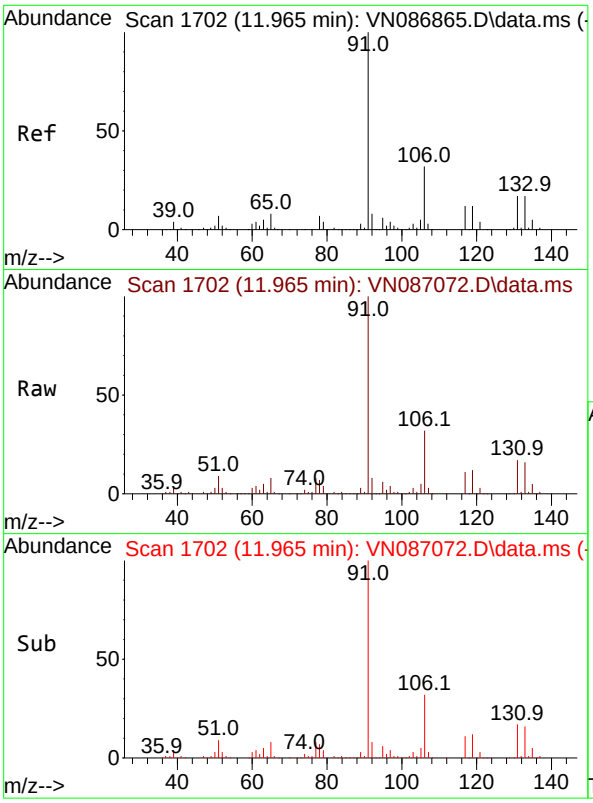


#66
1,1,1,2-Tetrachloroethane
Concen: 53.179 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:131 Resp: 100286

Ion	Ratio	Lower	Upper
131	100		
133	95.2	48.3	144.8
119	68.7	34.0	101.8



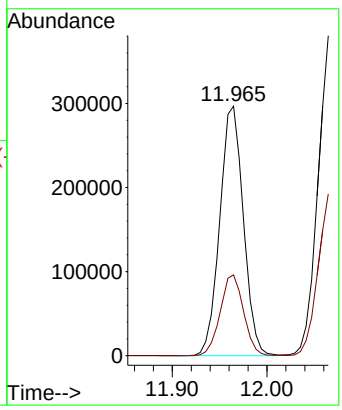


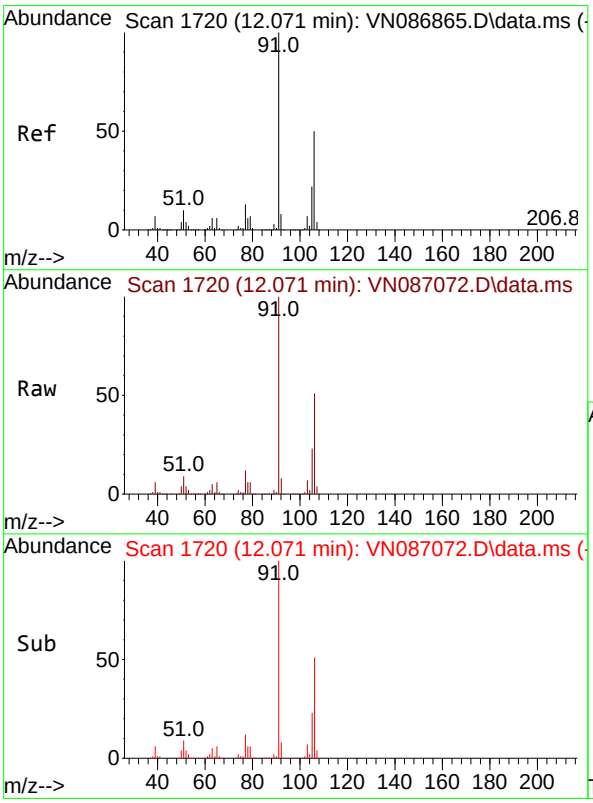
#67
Ethyl Benzene
Concen: 50.862 ug/l
RT: 11.965 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 513967

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.4	38.2

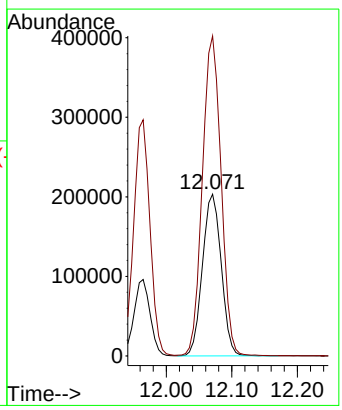


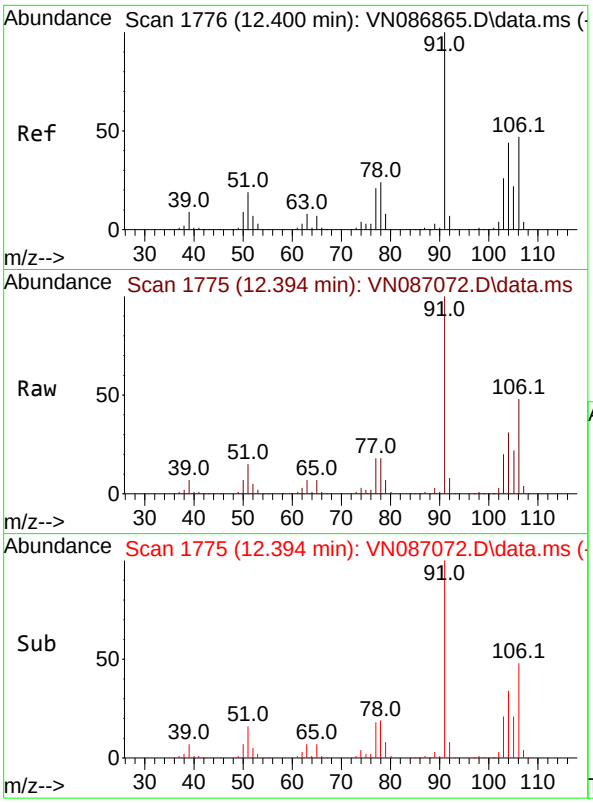


#68
m/p-Xylenes
Concen: 104.697 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:106 Resp: 404997

Ion	Ratio	Lower	Upper
106	100		
91	197.2	159.4	239.0



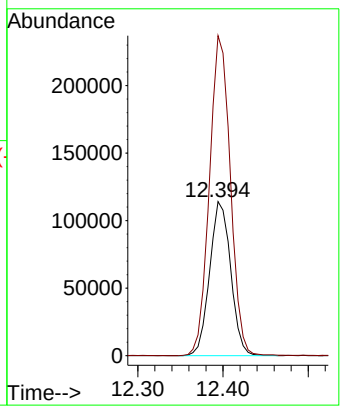


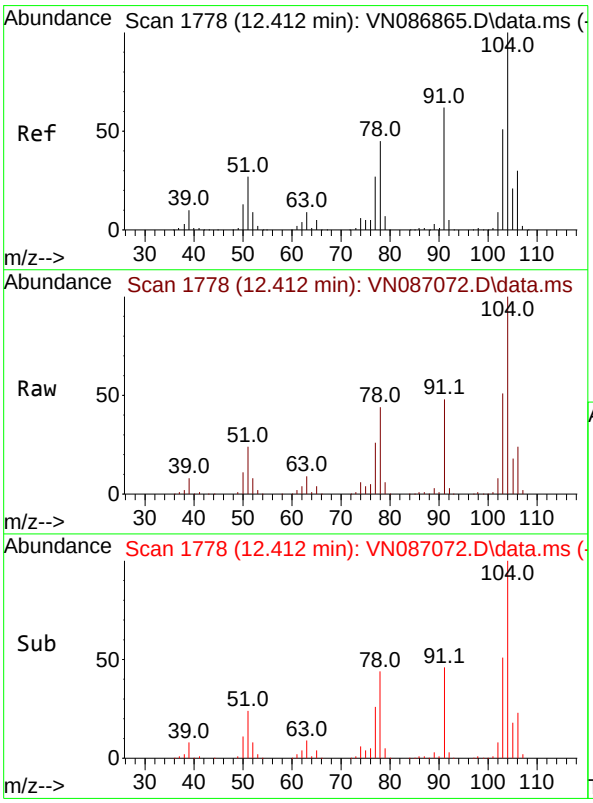
#69
o-Xylene
Concen: 52.832 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 195732

Ion	Ratio	Lower	Upper
106	100		
91	207.1	106.1	318.1

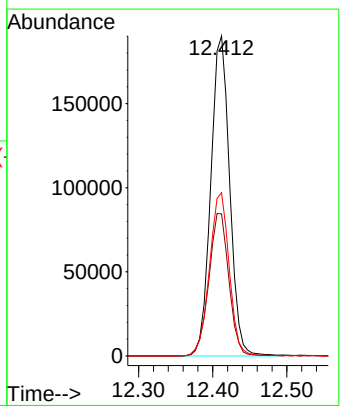


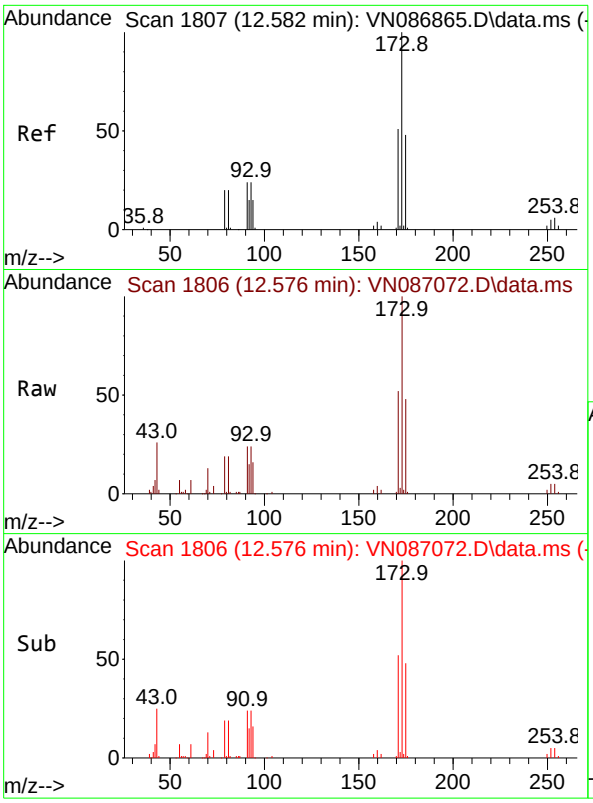


#70
Styrene
Concen: 53.066 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:104 Resp: 336415

Ion	Ratio	Lower	Upper
104	100		
78	47.3	38.5	57.7
103	53.3	43.1	64.7



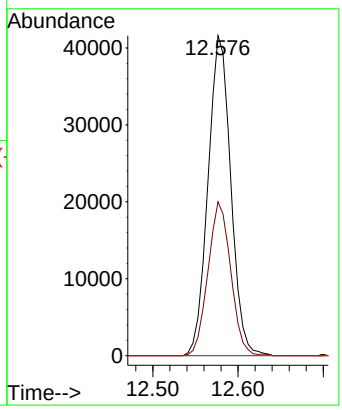


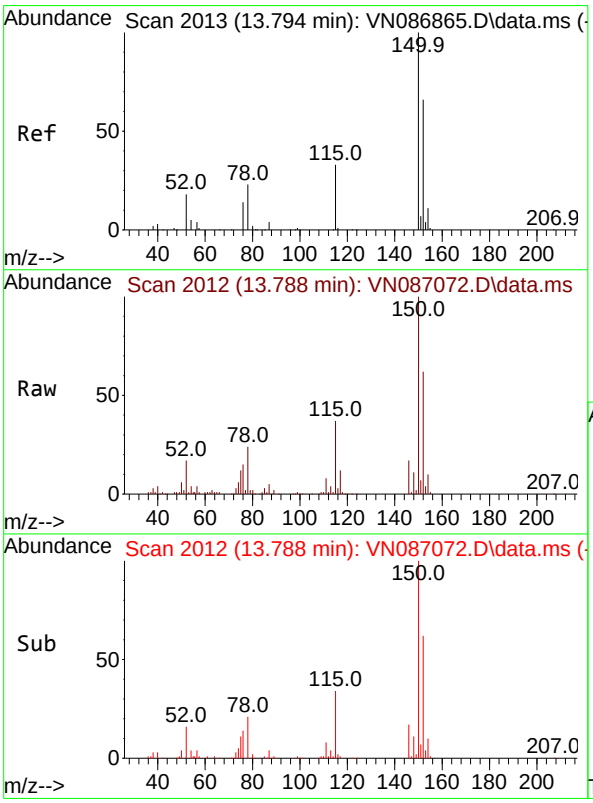
#71
Bromoform
Concen: 55.239 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 77185

Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.1	72.4
254	0.0	0.0	0.0

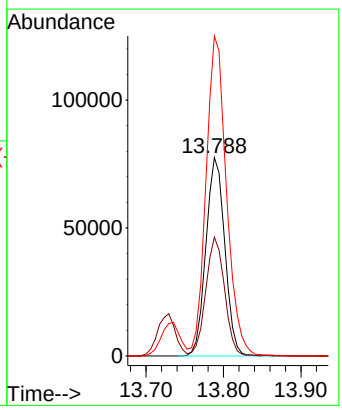


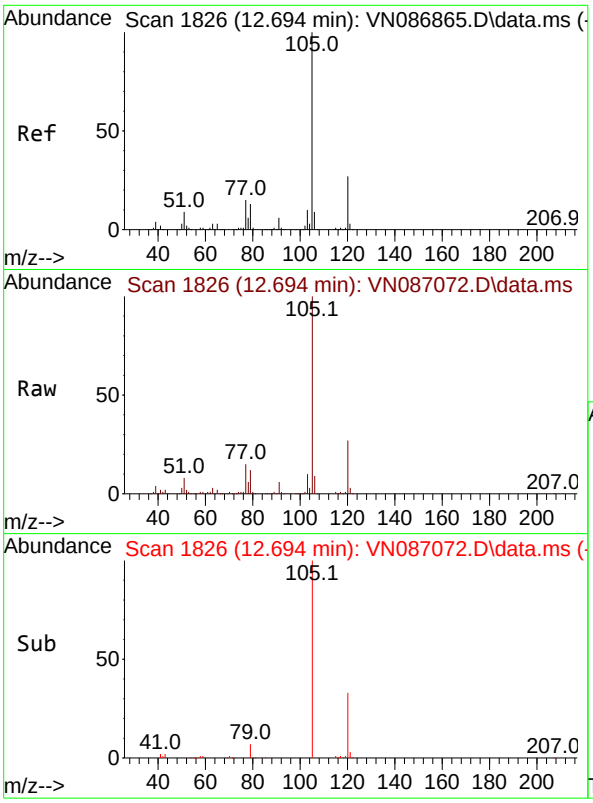


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:152 Resp: 131413

Ion	Ratio	Lower	Upper
152	100		
115	59.4	30.1	90.5
150	174.6	0.0	345.0



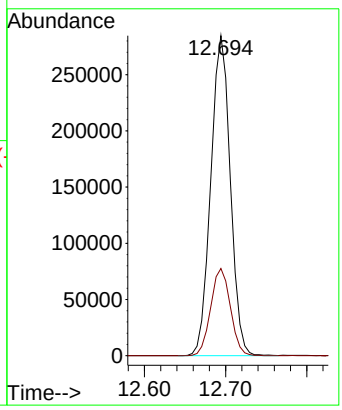


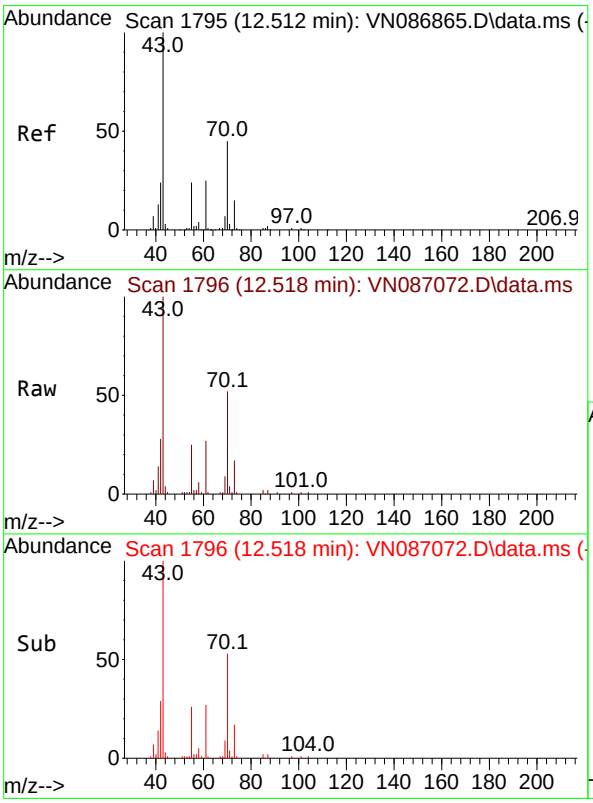
#73
Isopropylbenzene
Concen: 49.691 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 475717

Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.5	40.4

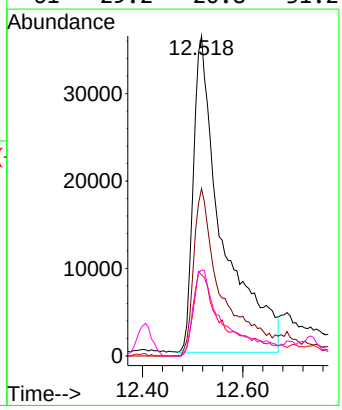


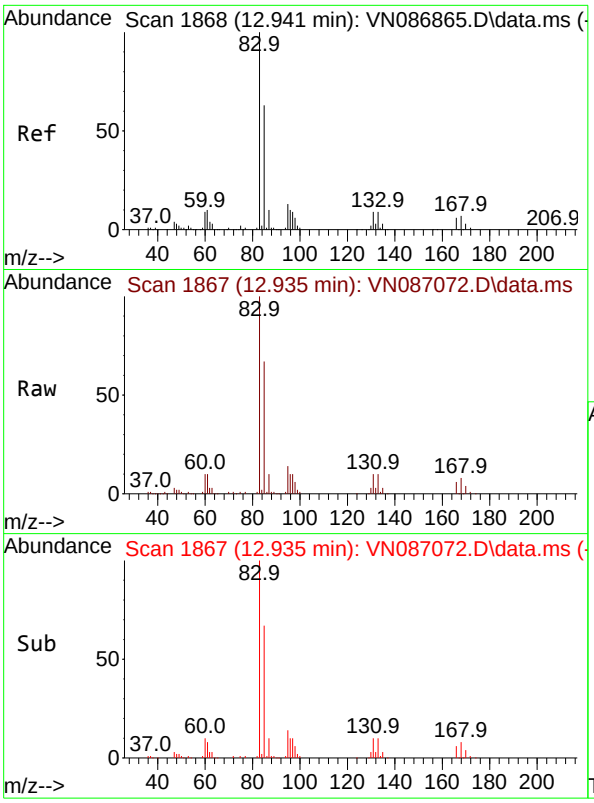


#74
N-amyl acetate
Concen: 43.221 ug/l
RT: 12.518 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 43 Resp: 144591

Ion	Ratio	Lower	Upper
43	100		
70	51.5	37.6	56.4
55	28.6	19.0	28.6#
61	29.2	20.8	31.2



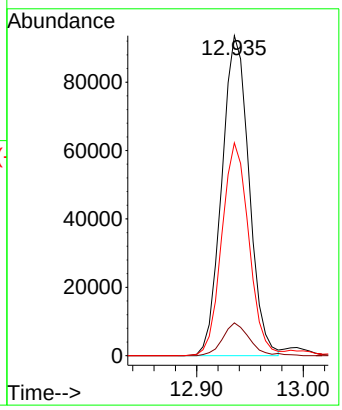


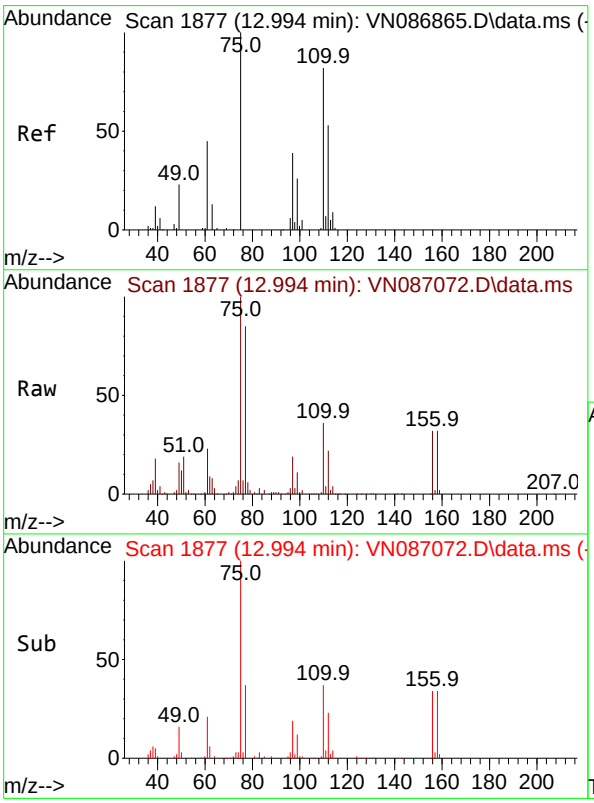
#75
1,1,2,2-Tetrachloroethane
Concen: 51.233 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 166164

Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.9	14.7
85	66.2	32.0	96.0

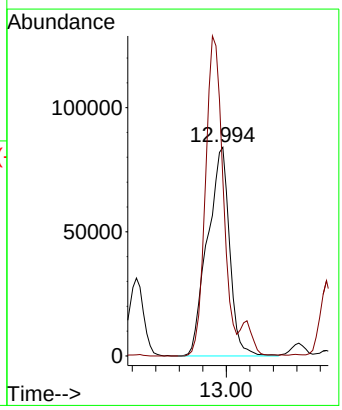


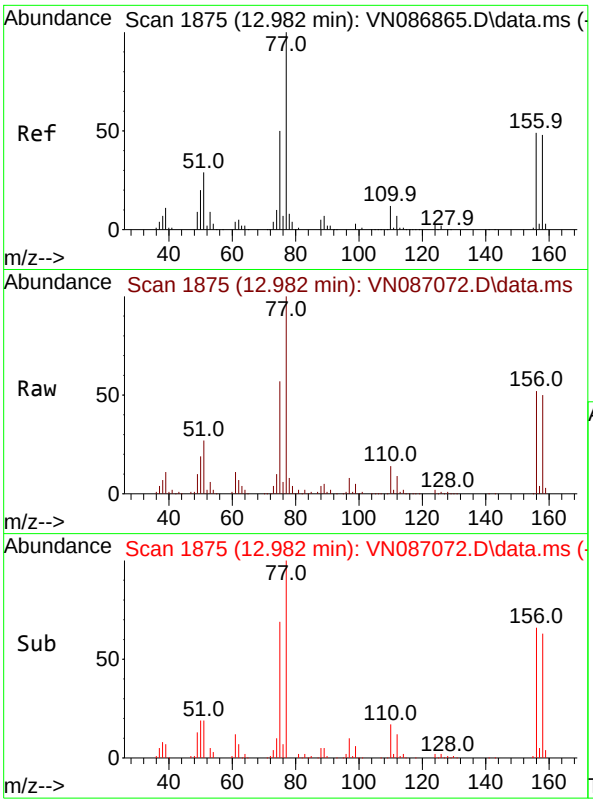


#76
1,2,3-Trichloropropane
Concen: 70.170 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 75 Resp: 219191

Ion	Ratio	Lower	Upper
75	100		
77	121.3	79.3	237.9



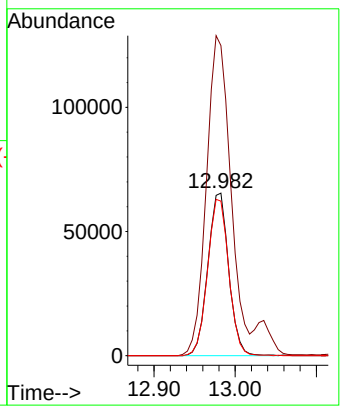


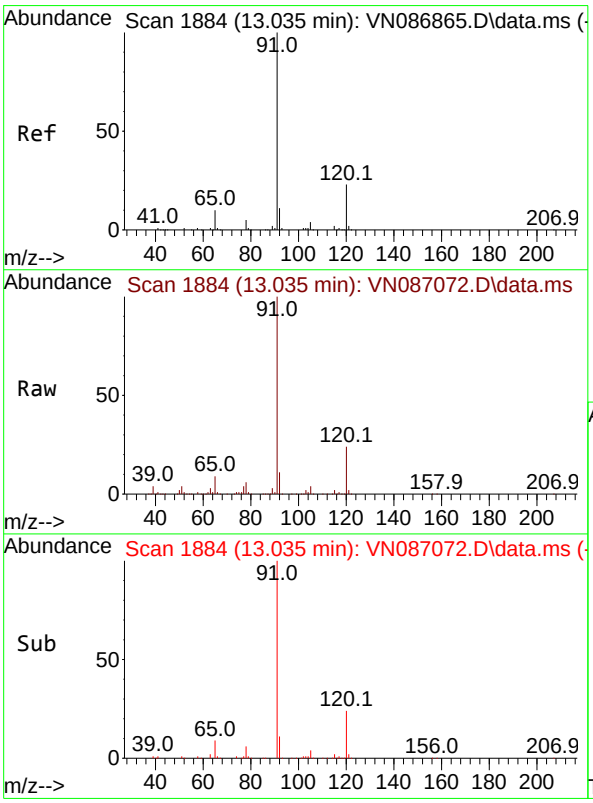
#77
Bromobenzene
Concen: 53.296 ug/l
RT: 12.982 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 117013

Ion	Ratio	Lower	Upper
156	100		
77	227.2	117.7	353.1
158	97.5	48.1	144.4

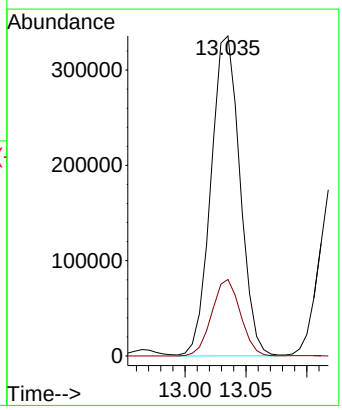


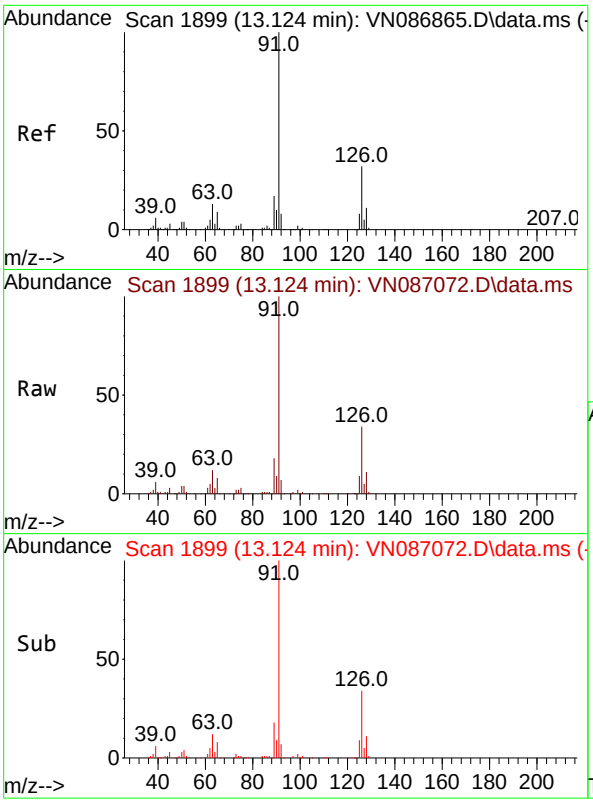


#78
n-propylbenzene
Concen: 47.881 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 91 Resp: 557066

Ion	Ratio	Lower	Upper
91	100		
120	23.6	11.4	34.2



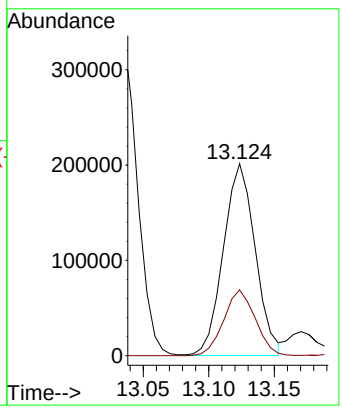


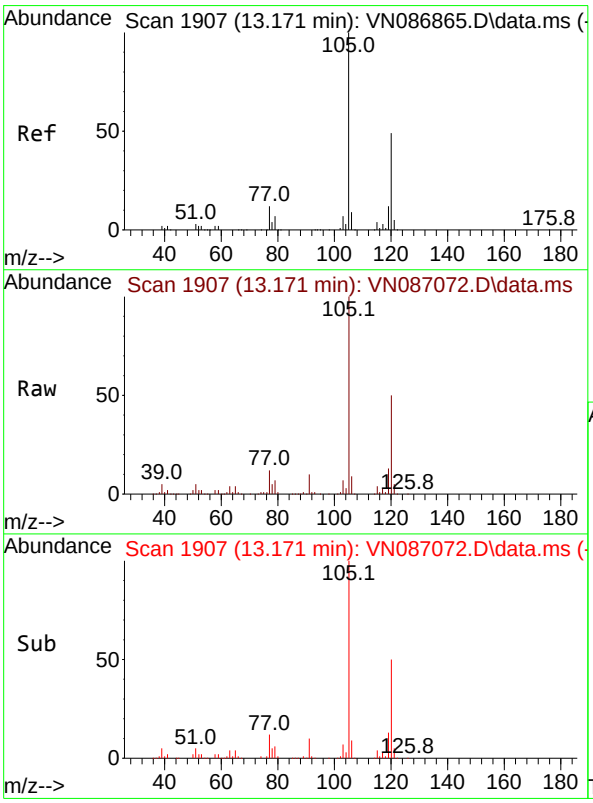
#79
2-Chlorotoluene
Concen: 48.823 ug/l
RT: 13.124 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 340654

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.2	48.5

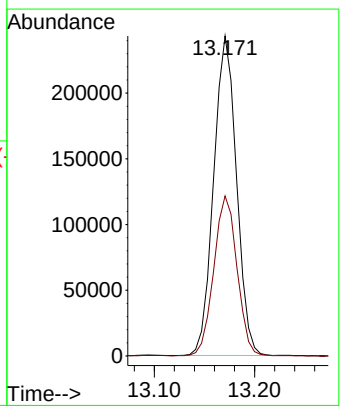


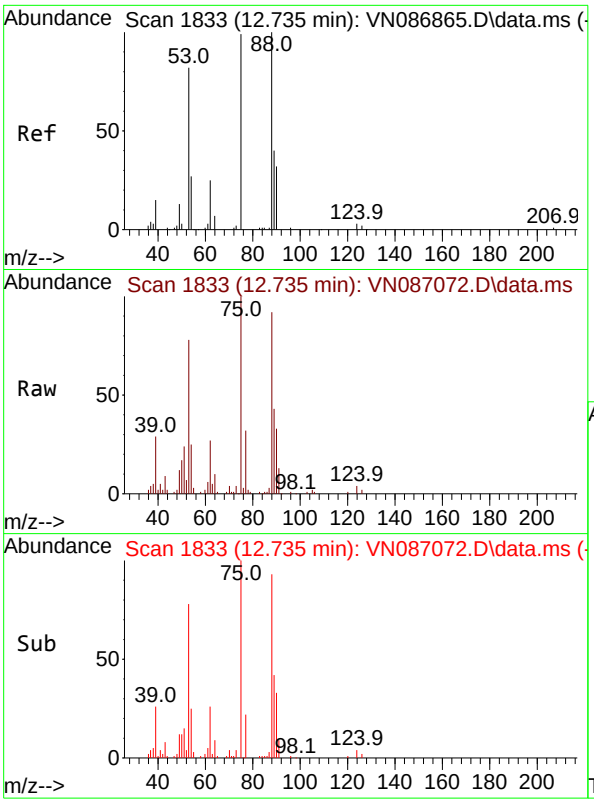


#80
1,3,5-Trimethylbenzene
Concen: 48.554 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:105 Resp: 383774

Ion	Ratio	Lower	Upper
105	100		
120	51.1	24.9	74.6



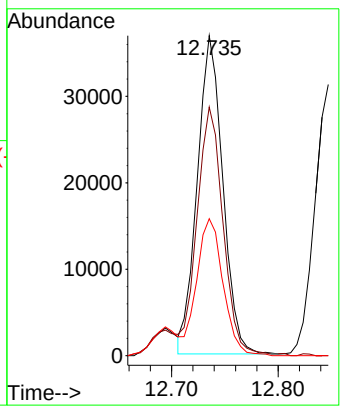


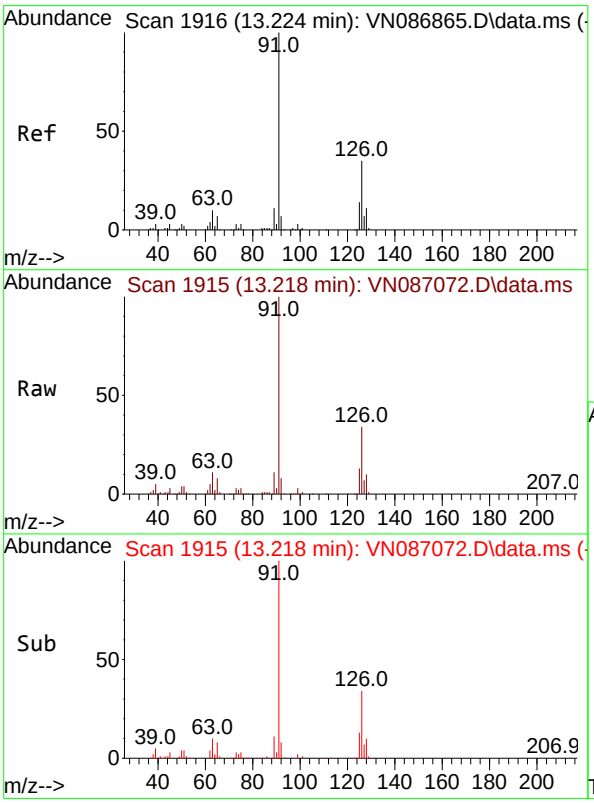
#81
trans-1,4-Dichloro-2-butene
Concen: 45.254 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 61410

Ion	Ratio	Lower	Upper
75	100		
53	80.2	66.6	99.8
89	45.2	36.7	55.1

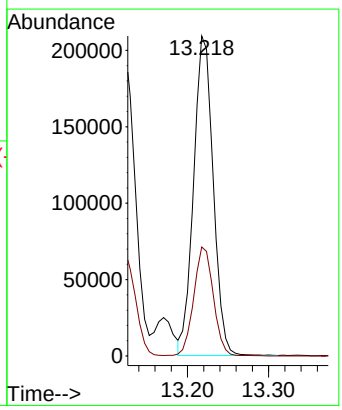


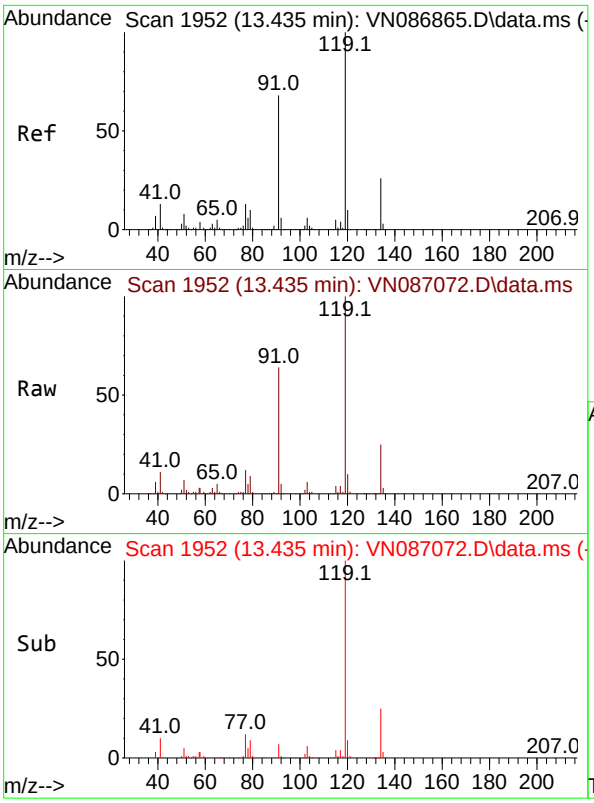


#82
4-Chlorotoluene
Concen: 49.722 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 91 Resp: 351028

Ion	Ratio	Lower	Upper
91	100		
126	34.3	16.7	50.1



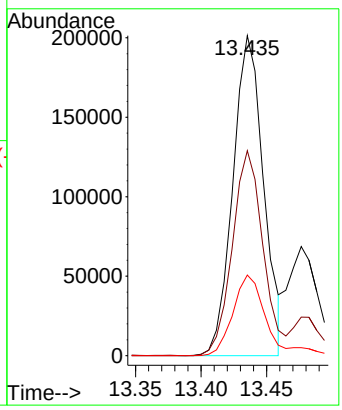


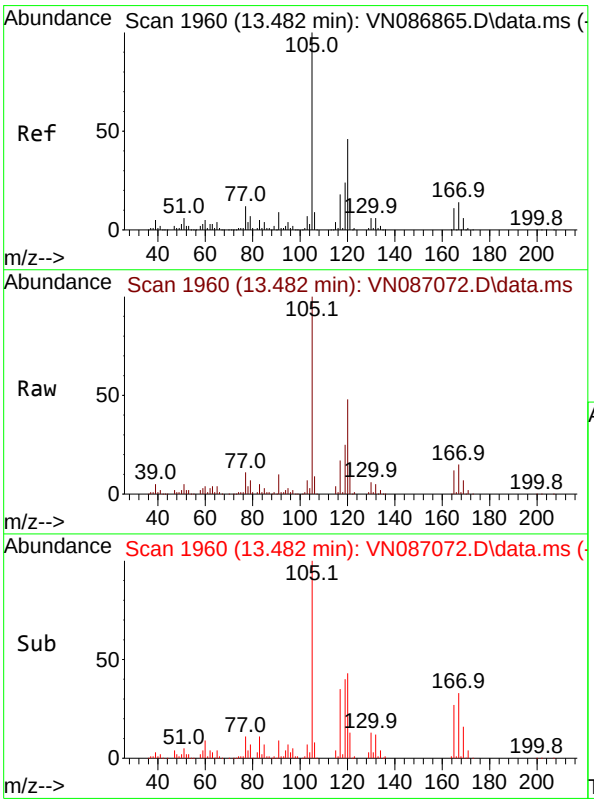
#83
tert-Butylbenzene
Concen: 45.308 ug/l
RT: 13.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 327812

Ion	Ratio	Lower	Upper
119	100		
91	64.3	32.1	96.5
134	27.5	13.4	40.1

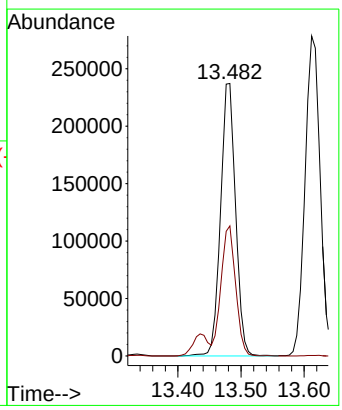


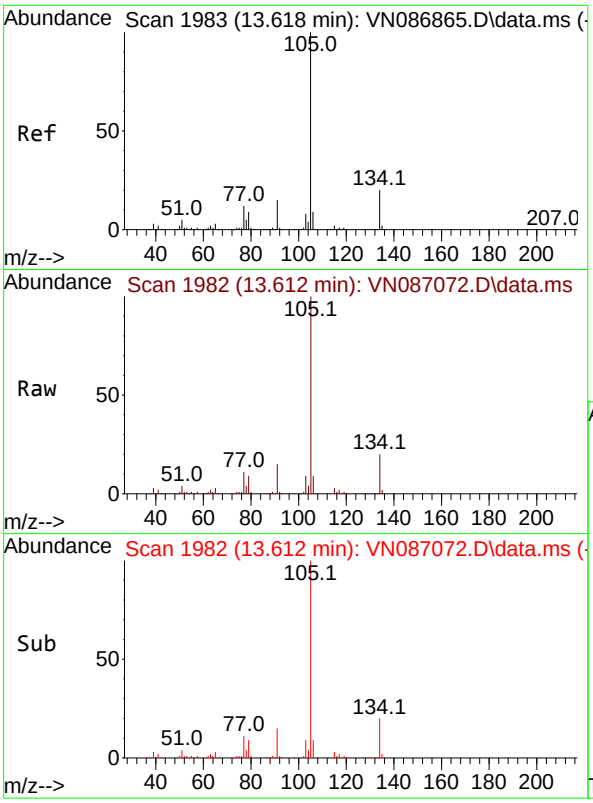


#84
1,2,4-Trimethylbenzene
Concen: 49.418 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:105 Resp: 391683

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.2	69.6



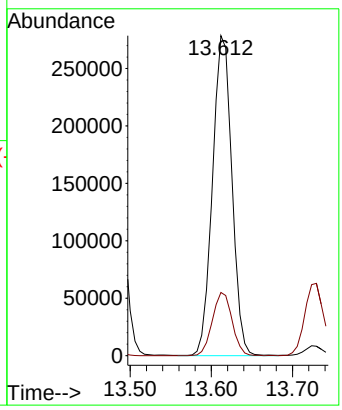


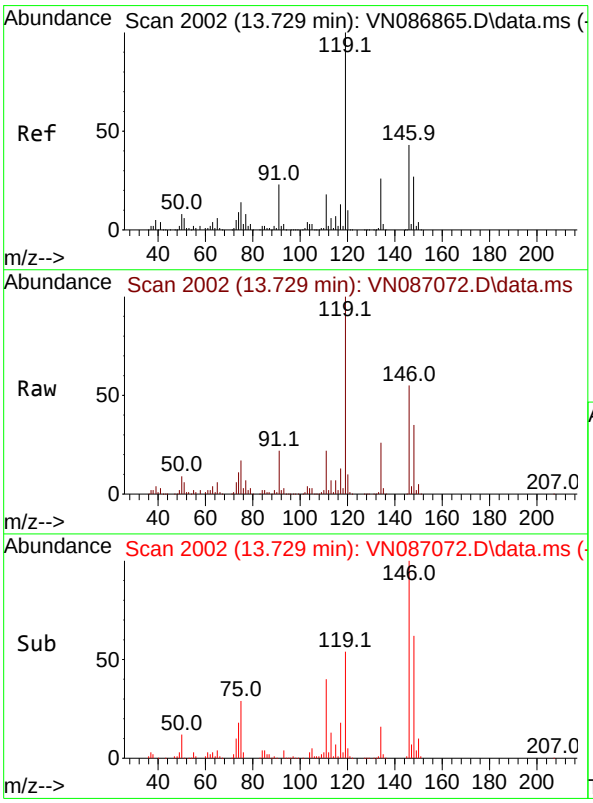
#85
sec-Butylbenzene
Concen: 44.163 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 464024

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	30.0

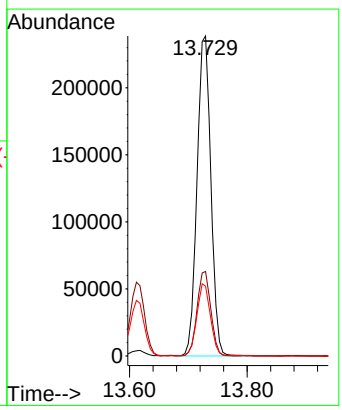


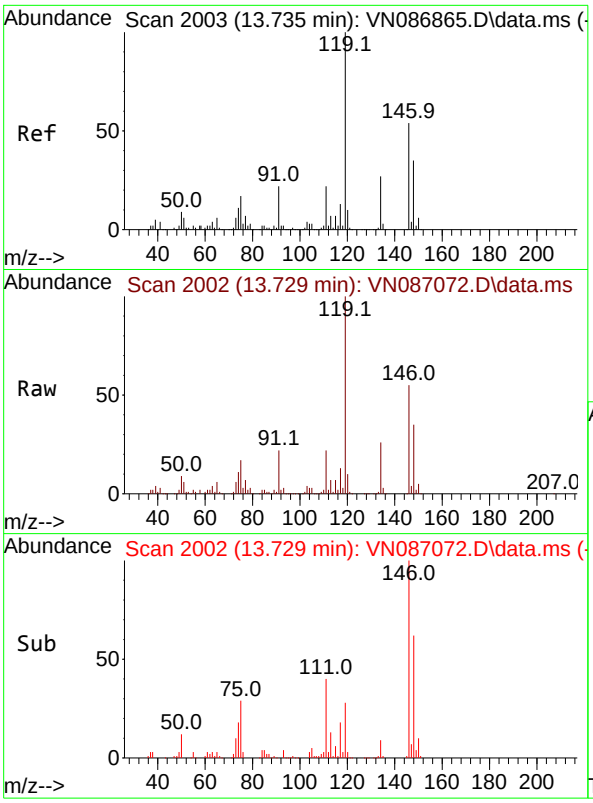


#86
p-Isopropyltoluene
Concen: 44.952 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:119 Resp: 390433

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.5	40.4
91	21.9	11.5	34.4



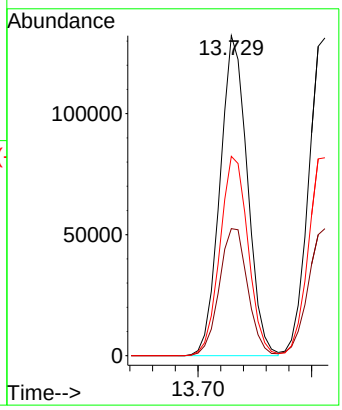


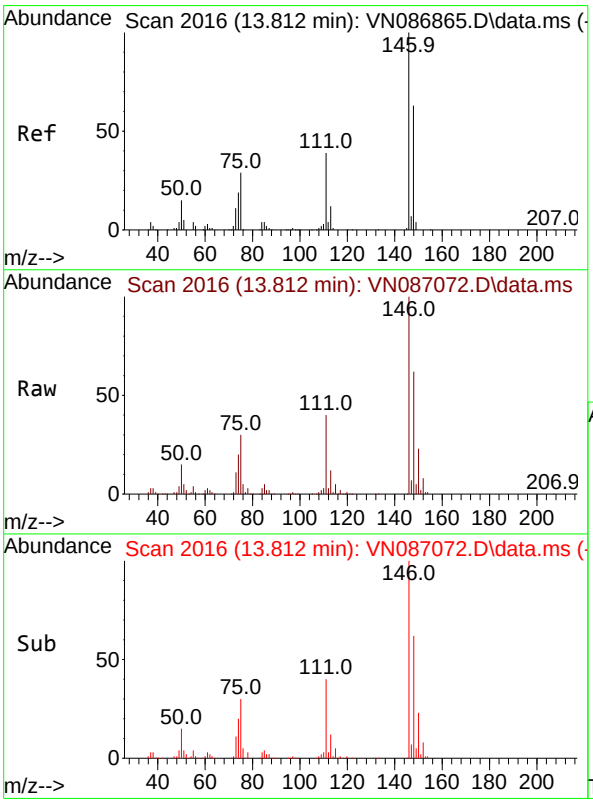
#87
1,3-Dichlorobenzene
Concen: 51.207 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 221199

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.9	62.8
148	64.1	32.0	96.2

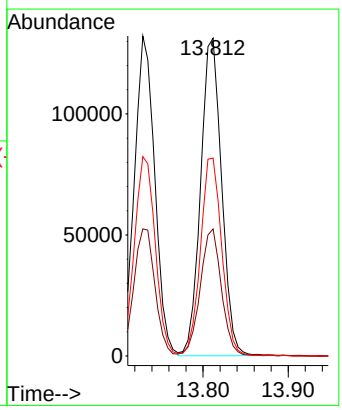


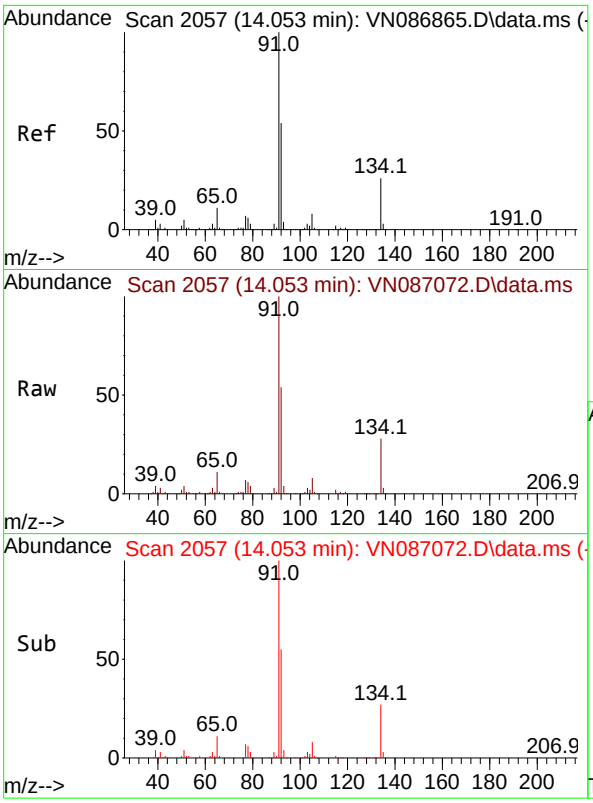


#88
1,4-Dichlorobenzene
Concen: 51.077 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:146 Resp: 224947

Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.9	59.7
148	63.3	31.8	95.4



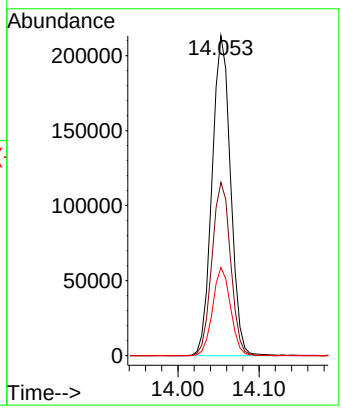


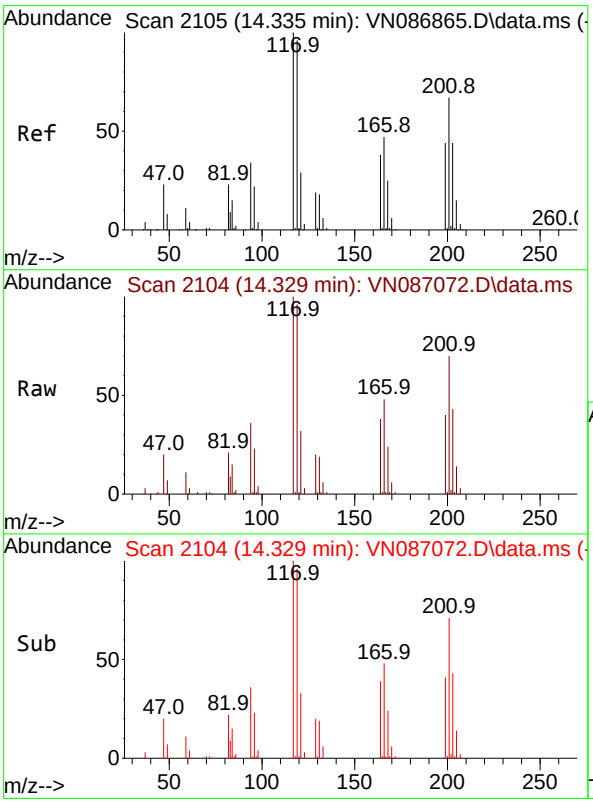
#89
n-Butylbenzene
Concen: 40.215 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 338323

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.5	82.4
134	26.6	13.0	39.0

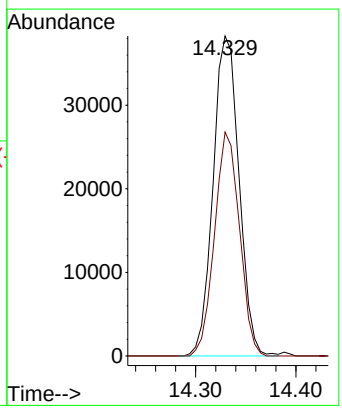


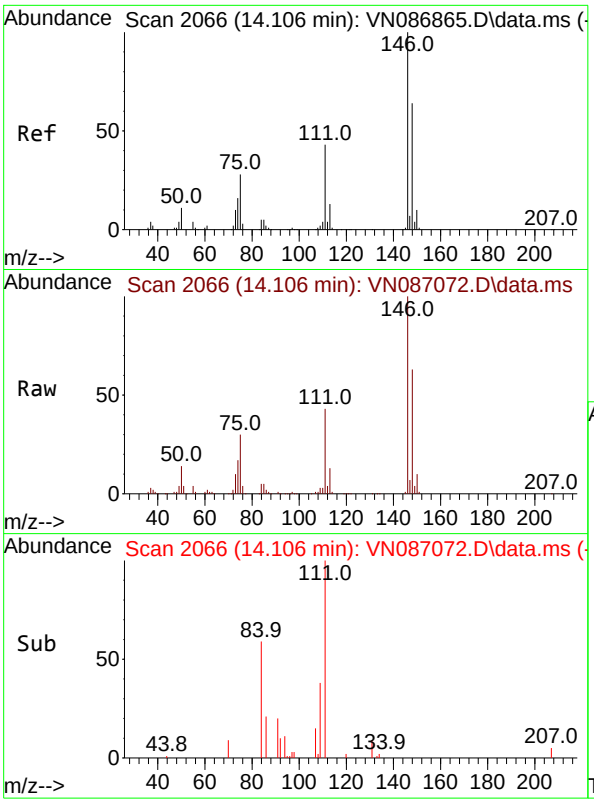


#90
Hexachloroethane
Concen: 46.741 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:117 Resp: 68814

Ion	Ratio	Lower	Upper
117	100		
201	67.2	33.2	99.6



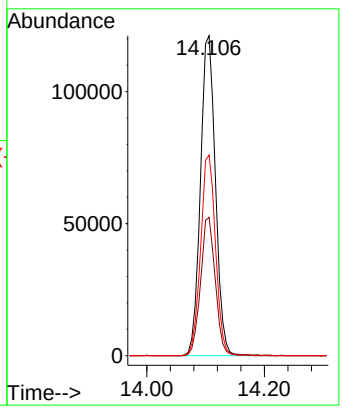


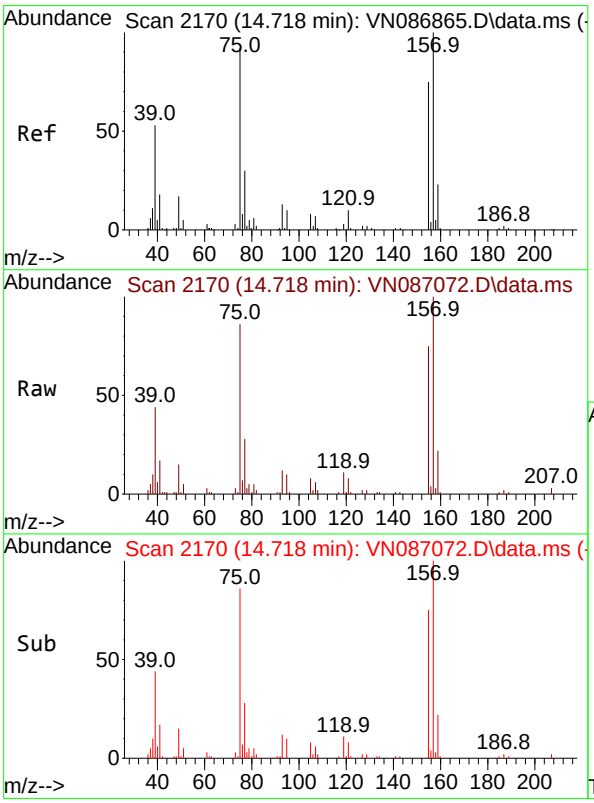
#91
1,2-Dichlorobenzene
Concen: 51.826 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 215082

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.6	64.6
148	62.5	31.7	95.1

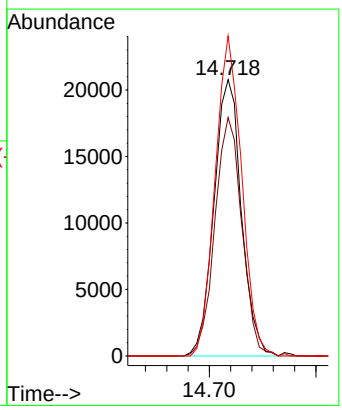


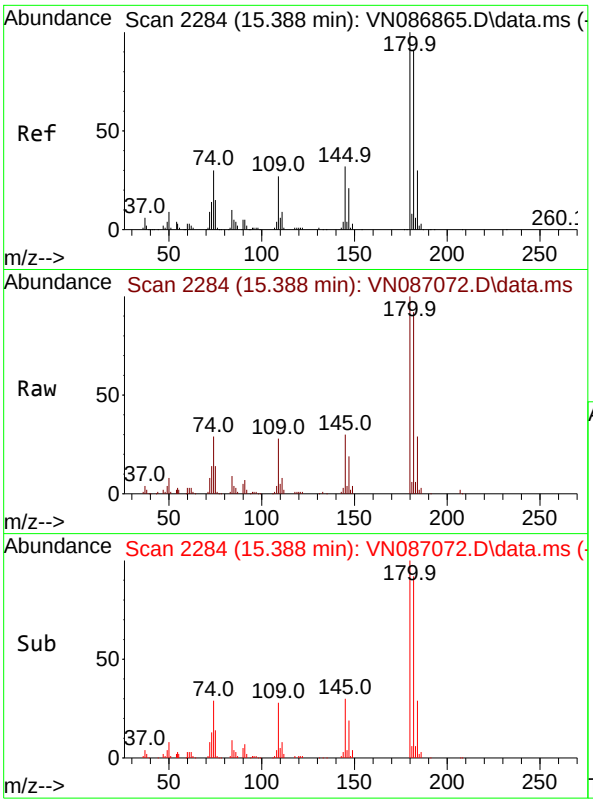


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.831 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion: 75 Resp: 37100

Ion	Ratio	Lower	Upper
75	100		
155	84.9	41.1	123.4
157	112.0	52.7	158.1



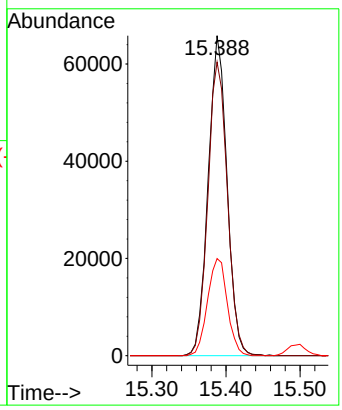


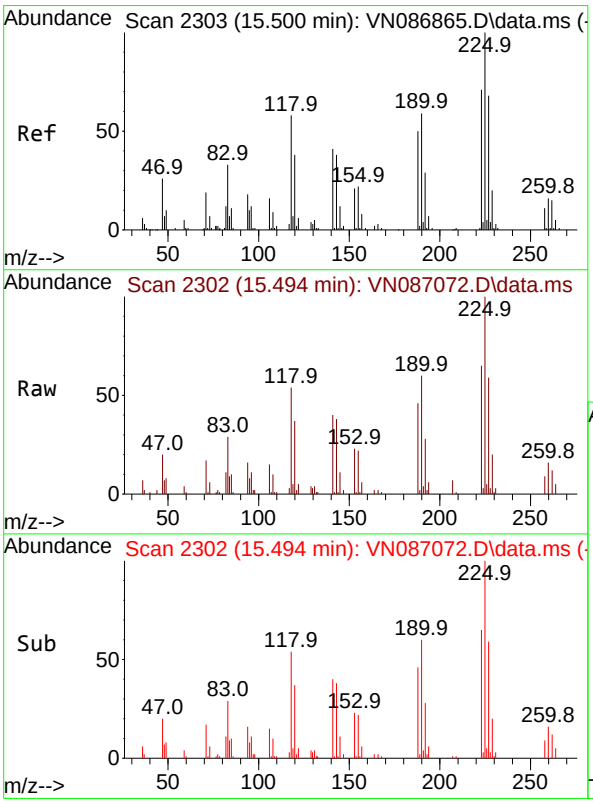
#93
1,2,4-Trichlorobenzene
Concen: 43.863 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 116242

Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.9	140.7
145	31.8	16.0	47.9

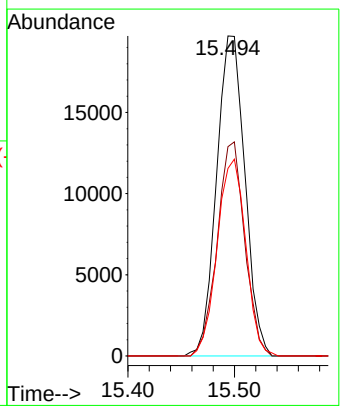


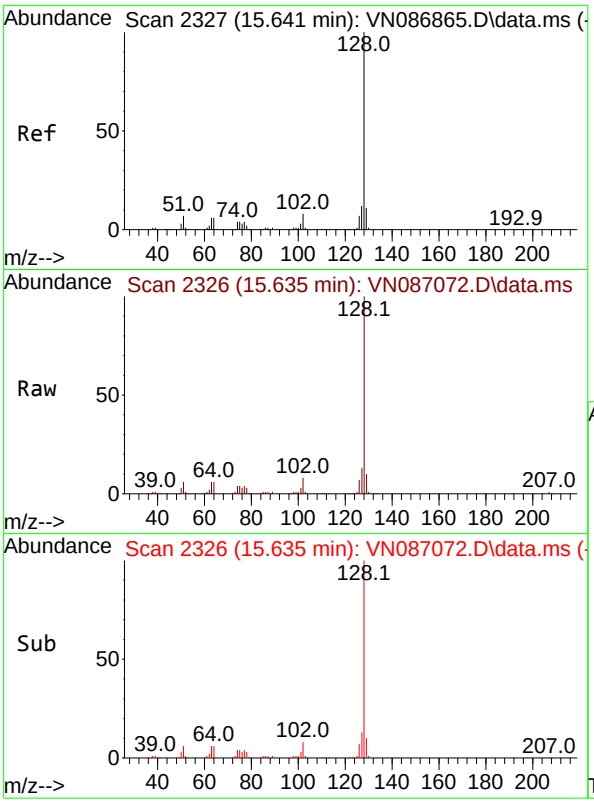


#94
Hexachlorobutadiene
Concen: 36.928 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:225 Resp: 36461

Ion	Ratio	Lower	Upper
225	100		
223	64.9	33.5	100.4
227	61.8	31.1	93.5



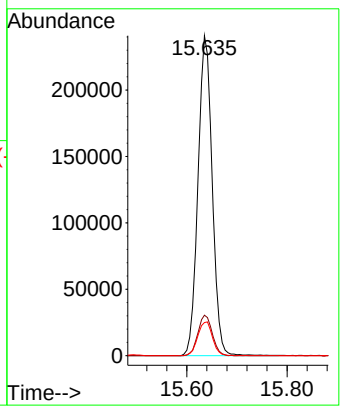


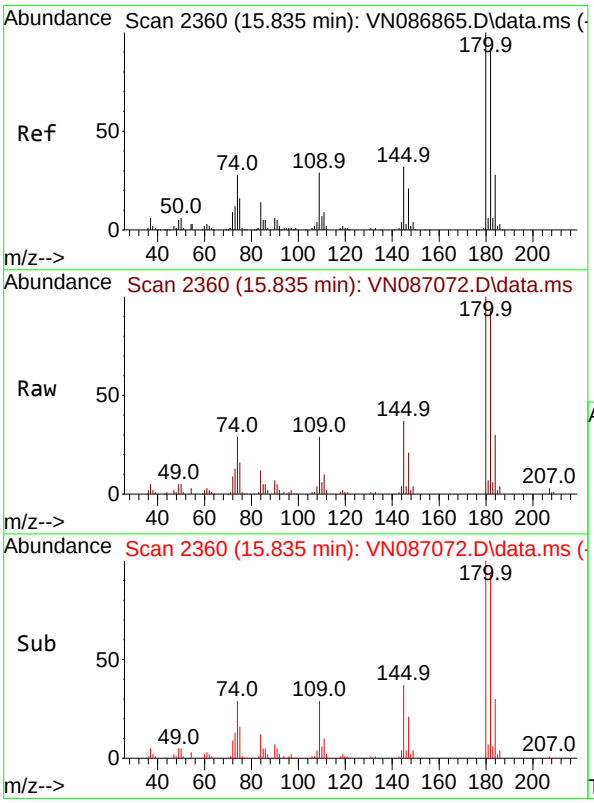
#95
Naphthalene
Concen: 48.124 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 474700

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.9	8.8	13.2

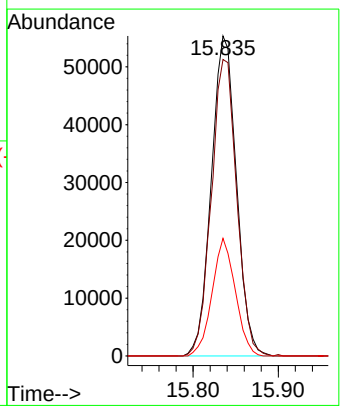




#96
1,2,3-Trichlorobenzene
Concen: 42.984 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN087072.D
Acq: 17 Jun 2025 19:43

Tgt Ion:180 Resp: 113176

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.0	141.0
145	34.1	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	217200	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	377846	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	330017	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	164001	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	134796	46.352	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.700%			
35) Dibromofluoromethane	8.177	113	119311	53.283	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.560%			
50) Toluene-d8	10.565	98	439174	49.543	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.080%			
62) 4-Bromofluorobenzene	12.847	95	168714	51.228	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	112043	51.737	ug/l	99
3) Chloromethane	2.395	50	119690	42.800	ug/l	98
4) Vinyl Chloride	2.553	62	153199	53.107	ug/l	100
5) Bromomethane	2.989	94	81040	50.200	ug/l	92
6) Chloroethane	3.153	64	97432	52.288	ug/l	96
7) Trichlorofluoromethane	3.530	101	196353	52.096	ug/l	99
8) Diethyl Ether	3.983	74	82789	50.415	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.394	101	123329	52.082	ug/l	99
10) Methyl Iodide	4.618	142	108696	35.410	ug/l	97
11) Tert butyl alcohol	5.536	59	166122	210.527	ug/l	100
12) 1,1-Dichloroethene	4.365	96	125476	51.903	ug/l	94
13) Acrolein	4.206	56	40962	163.999	ug/l	99
14) Allyl chloride	5.047	41	180796	45.094	ug/l	95
15) Acrylonitrile	5.736	53	422547	229.103	ug/l	99
16) Acetone	4.441	43	378344	245.332	ug/l	97
17) Carbon Disulfide	4.736	76	361644	54.081	ug/l	100
18) Methyl Acetate	5.047	43	175895	39.139	ug/l	97
19) Methyl tert-butyl Ether	5.818	73	427520	48.841	ug/l	100
20) Methylene Chloride	5.300	84	140573	48.688	ug/l	94
21) trans-1,2-Dichloroethene	5.806	96	135523	50.386	ug/l	92
22) Diisopropyl ether	6.688	45	385594	45.626	ug/l	95
23) Vinyl Acetate	6.618	43	1694540	237.318	ug/l	98
24) 1,1-Dichloroethane	6.583	63	239648	49.275	ug/l	97
25) 2-Butanone	7.488	43	531419	211.995	ug/l	94
26) 2,2-Dichloropropane	7.500	77	210034	55.517	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	159887	49.705	ug/l	98
28) Bromochloromethane	7.824	49	105918	44.293	ug/l	92
29) Tetrahydrofuran	7.847	42	345560	211.614	ug/l	95
30) Chloroform	7.977	83	234823	48.348	ug/l	99
31) Cyclohexane	8.265	56	213255	45.214	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	200791	48.606	ug/l	97
36) 1,1-Dichloropropene	8.377	75	176467	52.888	ug/l	99
37) Ethyl Acetate	7.571	43	200717	47.255	ug/l	99
38) Carbon Tetrachloride	8.371	117	170212	51.960	ug/l	98
39) Methylcyclohexane	9.606	83	206075	45.080	ug/l	95
40) Benzene	8.612	78	554750	50.844	ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	105242	44.118	ug/l		93
42) 1,2-Dichloroethane	8.677	62	164239	49.628	ug/l		99
43) Isopropyl Acetate	8.694	43	308186	45.206	ug/l		95
44) Trichloroethene	9.359	130	138049	53.359	ug/l		99
45) 1,2-Dichloropropane	9.623	63	136071	51.261	ug/l		97
46) Dibromomethane	9.712	93	93780	53.189	ug/l		100
47) Bromodichloromethane	9.888	83	185449	51.121	ug/l		98
48) Methyl methacrylate	9.682	41	143772	45.820	ug/l		94
49) 1,4-Dioxane	9.706	88	54618	956.815	ug/l	#	97
51) 4-Methyl-2-Pentanone	10.447	43	952300	232.037	ug/l		97
52) Toluene	10.629	92	344814	51.712	ug/l		100
53) t-1,3-Dichloropropene	10.835	75	212676	52.430	ug/l		100
54) cis-1,3-Dichloropropene	10.312	75	228528	52.653	ug/l		96
55) 1,1,2-Trichloroethane	11.018	97	130864	51.005	ug/l		97
56) Ethyl methacrylate	10.876	69	218942	53.576	ug/l		93
57) 1,3-Dichloropropane	11.165	76	224646	50.473	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	571062	234.289	ug/l		98
59) 2-Hexanone	11.200	43	642002	242.852	ug/l		92
60) Dibromochloromethane	11.359	129	141610	52.974	ug/l		99
61) 1,2-Dibromoethane	11.470	107	137281	52.202	ug/l		99
64) Tetrachloroethene	11.106	164	107143	51.300	ug/l		96
65) Chlorobenzene	11.888	112	375806	51.632	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.959	131	121849	52.079	ug/l		98
67) Ethyl Benzene	11.965	91	637921	50.882	ug/l		99
68) m/p-Xylenes	12.070	106	503996	105.015	ug/l		99
69) o-Xylene	12.394	106	241725	52.589	ug/l		98
70) Styrene	12.412	104	416344	52.934	ug/l		99
71) Bromoform	12.576	173	95724	55.217	ug/l	#	98
73) Isopropylbenzene	12.694	105	589954	49.378	ug/l		99
74) N-amyl acetate	12.512	43	185811	44.506	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.935	83	201817	49.861	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	274180	70.332	ug/l		71
77) Bromobenzene	12.976	156	145188	52.988	ug/l		96
78) n-propylbenzene	13.035	91	704268	48.505	ug/l		99
79) 2-Chlorotoluene	13.123	91	427130	49.053	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	489295	49.603	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	87912	51.911	ug/l	#	84
82) 4-Chlorotoluene	13.217	91	443322	50.317	ug/l		99
83) tert-Butylbenzene	13.435	119	411961	45.624	ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	495408	50.084	ug/l		99
85) sec-Butylbenzene	13.611	105	590317	45.019	ug/l		100
86) p-Isopropyltoluene	13.729	119	502465	46.356	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	279631	51.871	ug/l		99
88) 1,4-Dichlorobenzene	13.811	146	282492	51.398	ug/l		99
89) n-Butylbenzene	14.053	91	437343	41.655	ug/l		99
90) Hexachloroethane	14.329	117	87508	47.628	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	264771	51.121	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	45316	46.814	ug/l		96
93) 1,2,4-Trichlorobenzene	15.388	180	147553	44.615	ug/l		99
94) Hexachlorobutadiene	15.500	225	44448	36.072	ug/l		97
95) Naphthalene	15.635	128	584462	47.478	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	141602	43.093	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

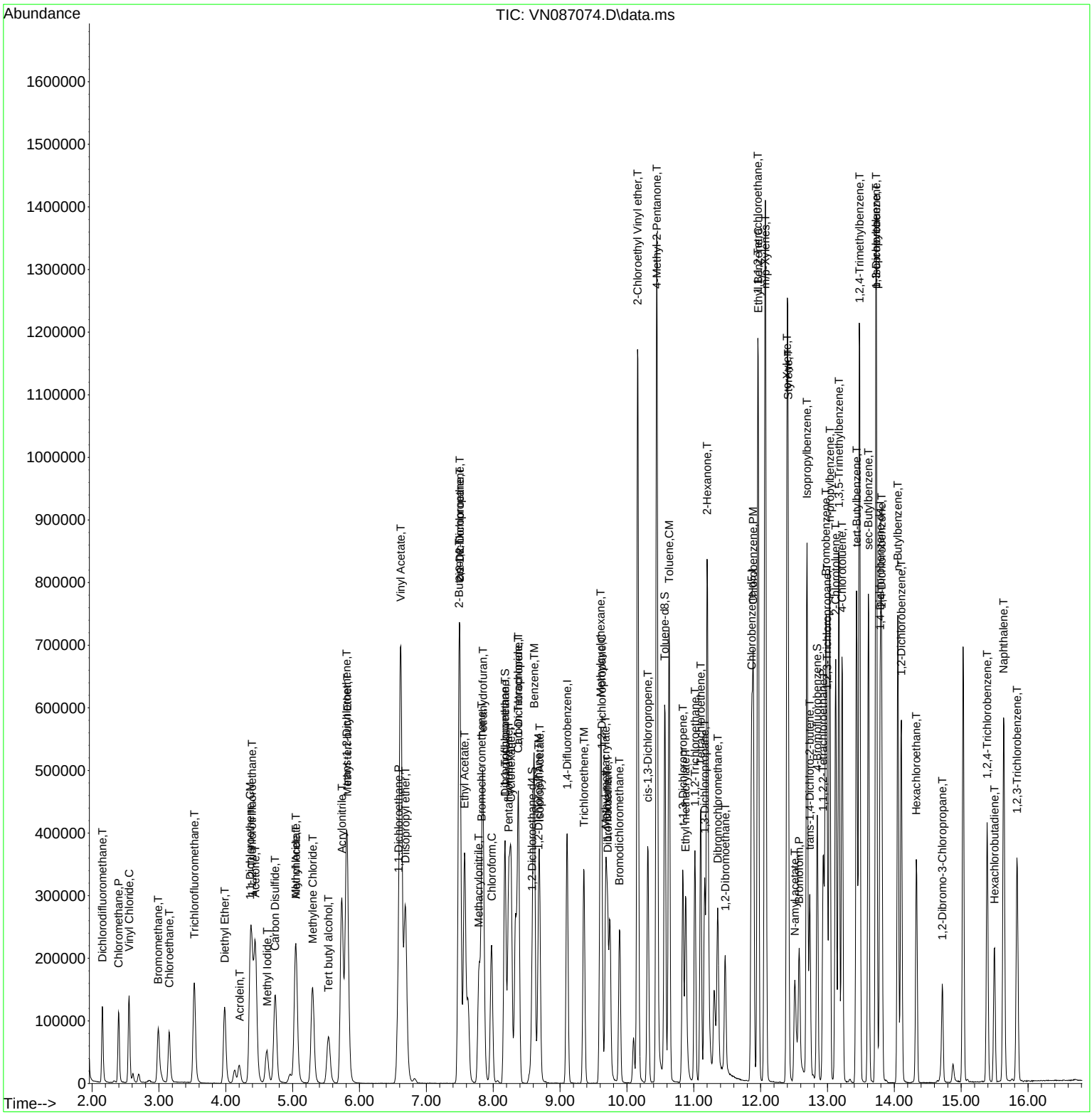
(#) = qualifier out of range (m) = manual integration (+) = signals summed

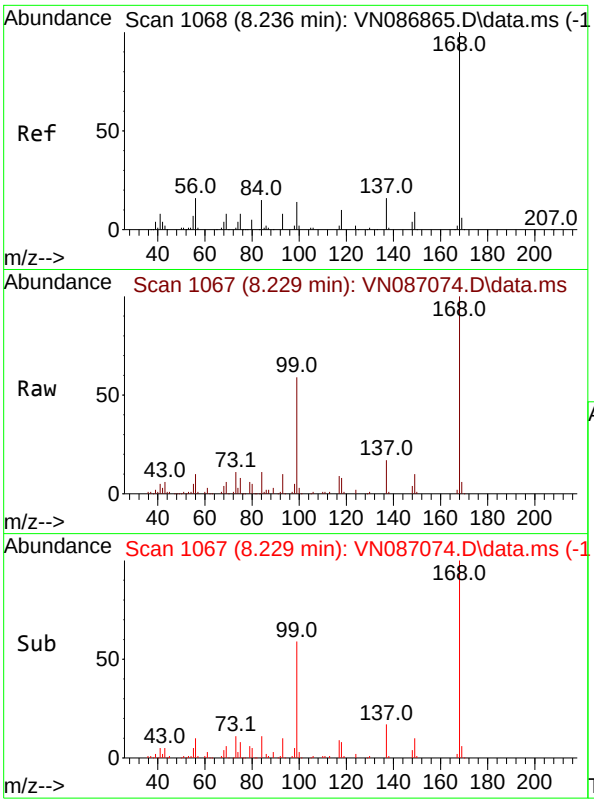
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087074.D
Acq On : 18 Jun 2025 10:21
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jun 19 01:22:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



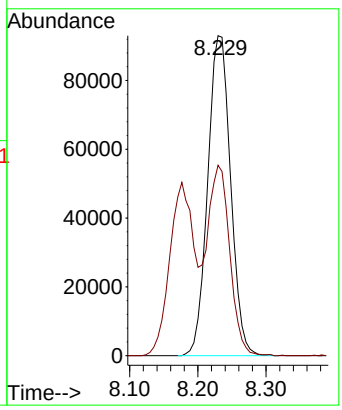


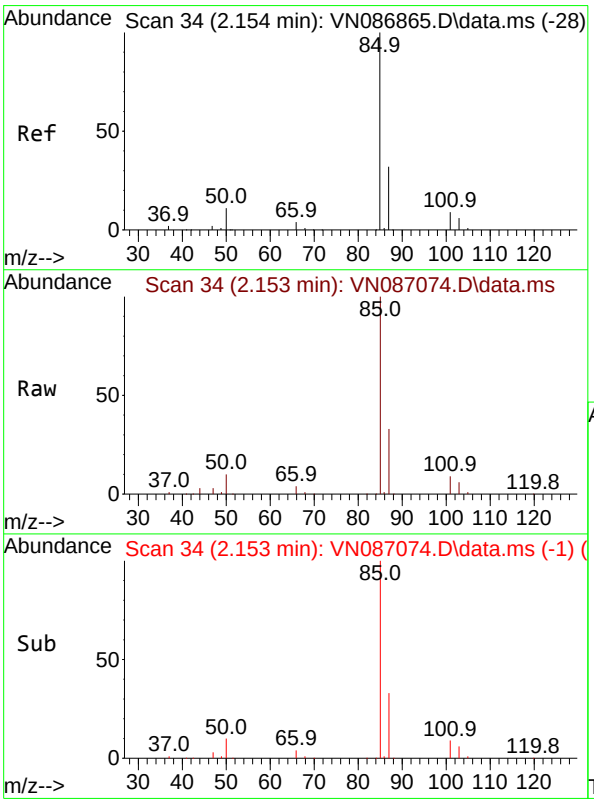
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 217200

Ion	Ratio	Lower	Upper
168	100		
99	59.5	49.1	73.7

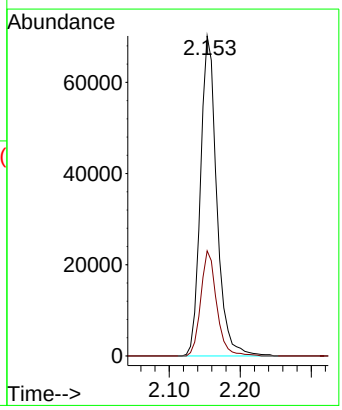


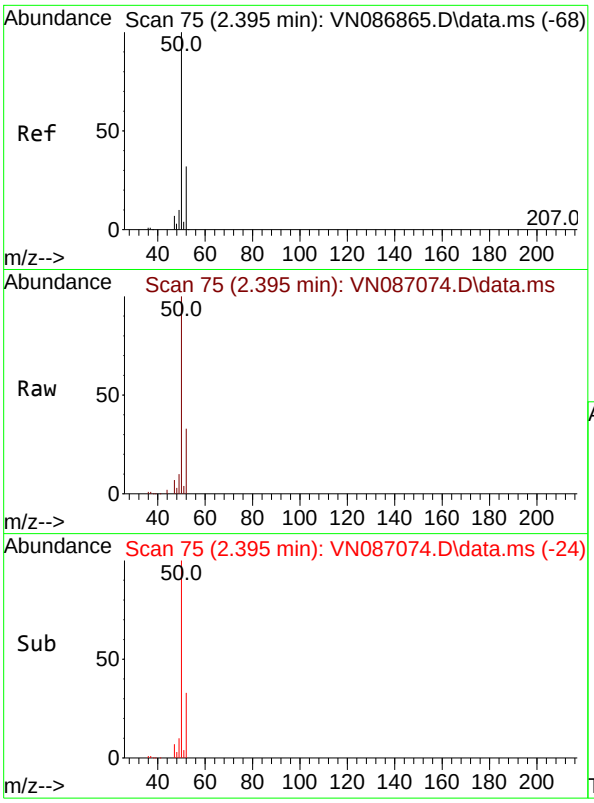


#2
Dichlorodifluoromethane
Concen: 51.737 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 85 Resp: 112043

Ion	Ratio	Lower	Upper
85	100		
87	32.8	16.2	48.6



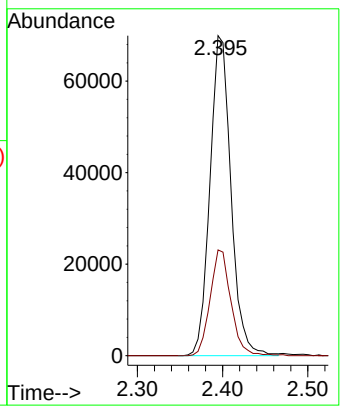


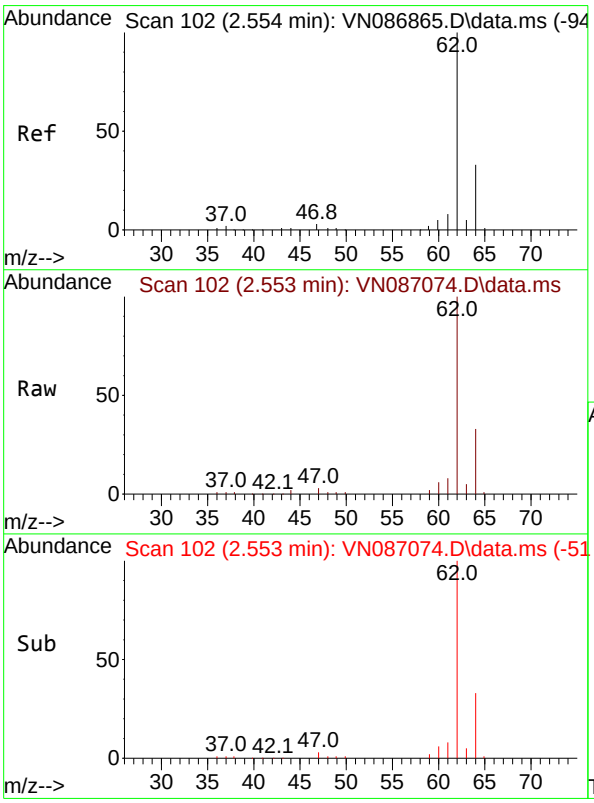
#3
Chloromethane
Concen: 42.800 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 119690

Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.7	38.5

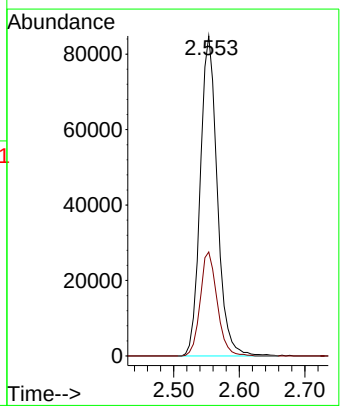


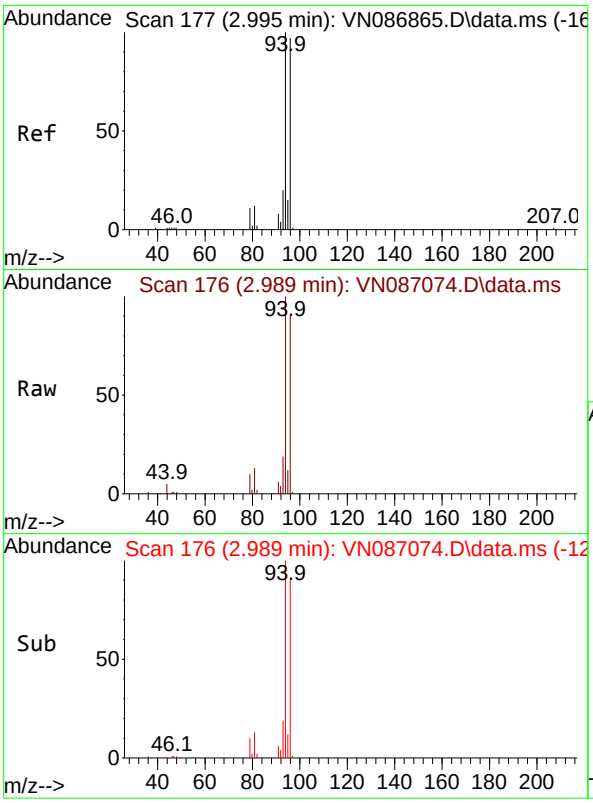


#4
Vinyl Chloride
Concen: 53.107 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 62 Resp: 153199

Ion	Ratio	Lower	Upper
62	100		
64	32.5	26.0	39.0



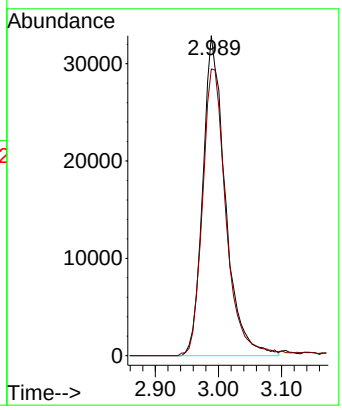


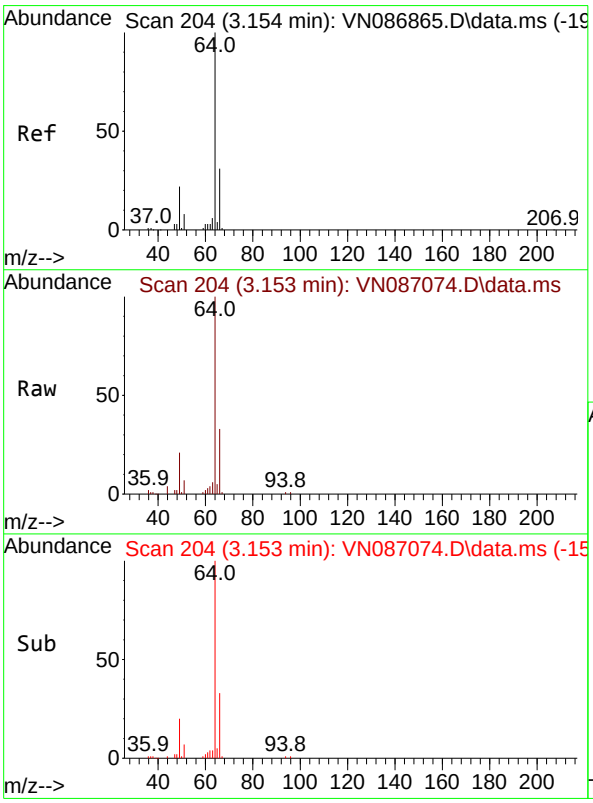
#5
Bromomethane
Concen: 50.200 ug/l
RT: 2.989 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 81040

Ion	Ratio	Lower	Upper
94	100		
96	89.6	77.9	116.9

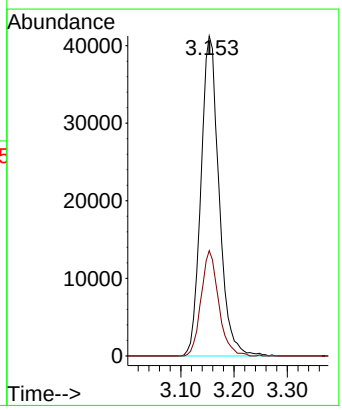


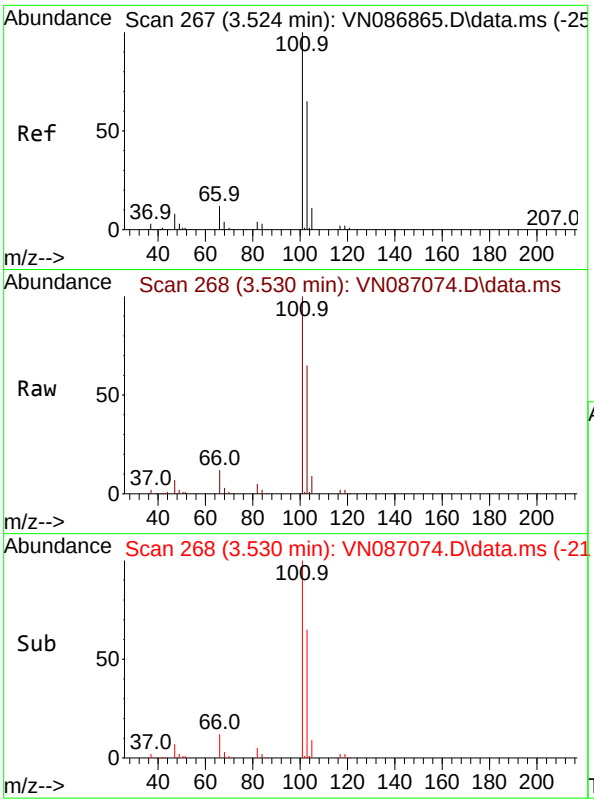


#6
Chloroethane
Concen: 52.288 ug/l
RT: 3.153 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 64 Resp: 97432

Ion	Ratio	Lower	Upper
64	100		
66	32.9	24.6	36.8



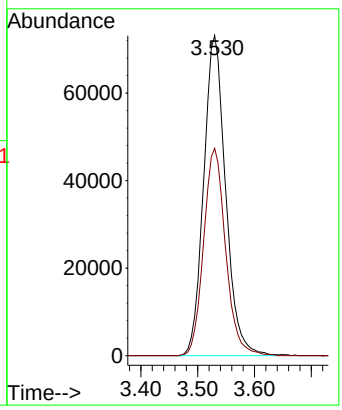


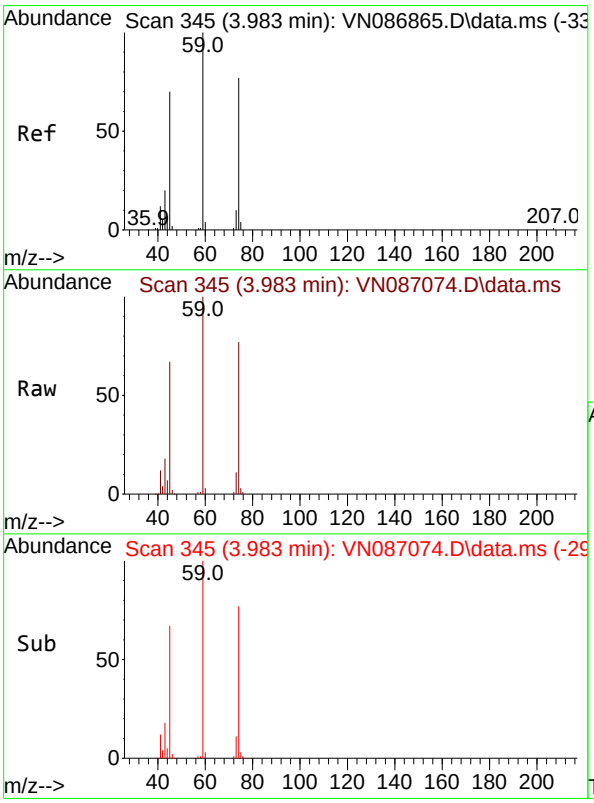
#7
Trichlorofluoromethane
Concen: 52.096 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 196353

Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.2	78.2

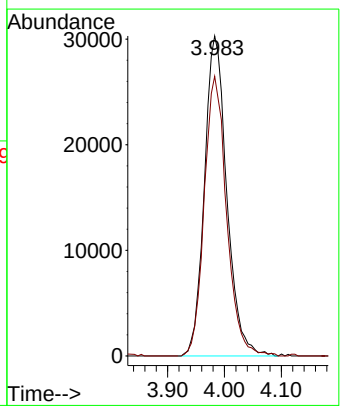


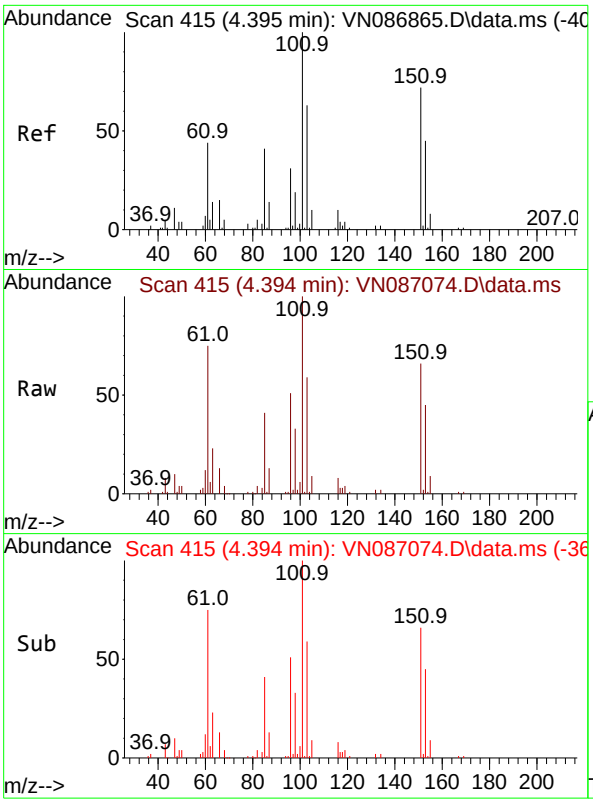


#8
Diethyl Ether
Concen: 50.415 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 74 Resp: 82789

Ion	Ratio	Lower	Upper
74	100		
45	87.4	45.5	136.5



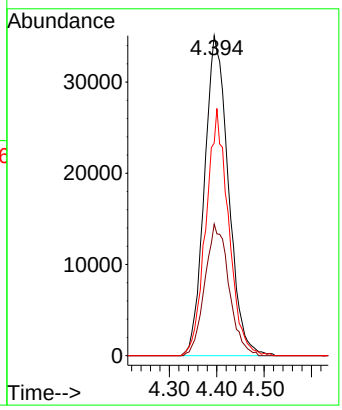


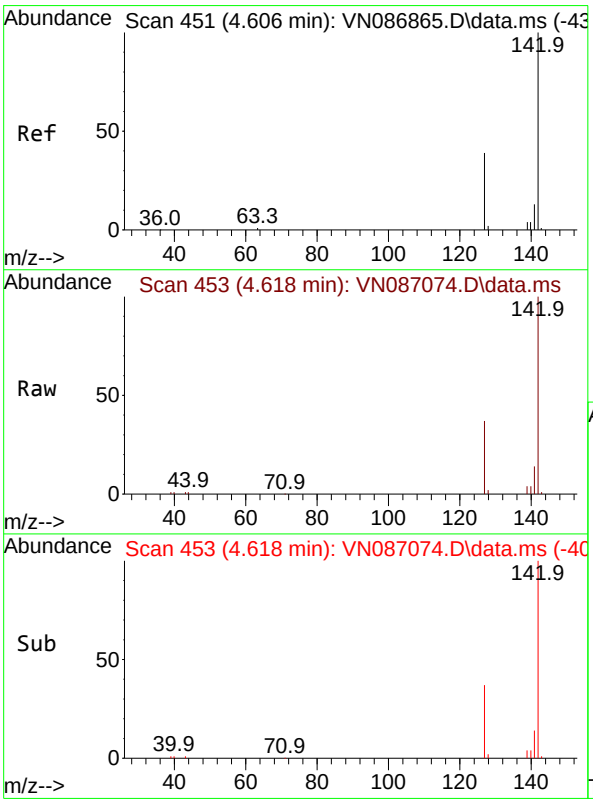
#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.082 ug/l
RT: 4.394 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 123329

Ion	Ratio	Lower	Upper
101	100		
85	41.2	33.8	50.8
151	73.1	58.7	88.1

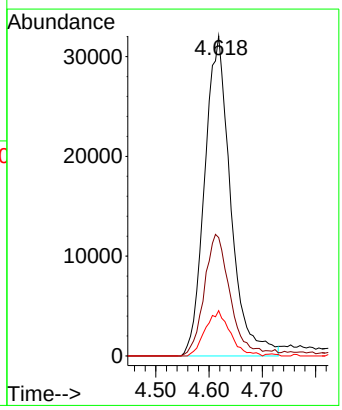


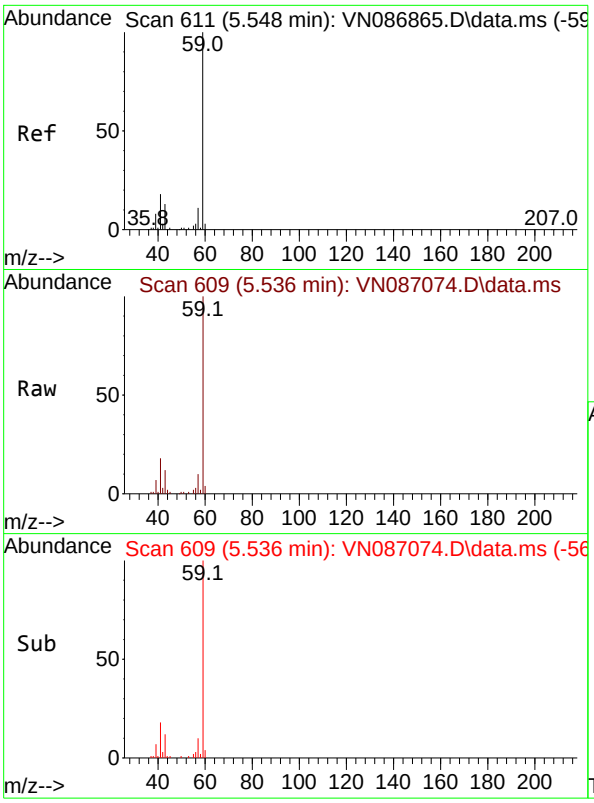


#10
Methyl Iodide
Concen: 35.410 ug/l
RT: 4.618 min Scan# 453
Delta R.T. 0.012 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:142 Resp: 108696

Ion	Ratio	Lower	Upper
142	100		
127	37.0	30.9	46.3
141	14.2	10.4	15.6



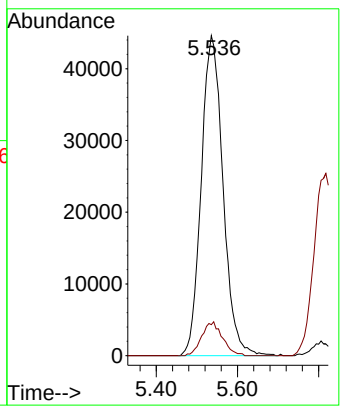


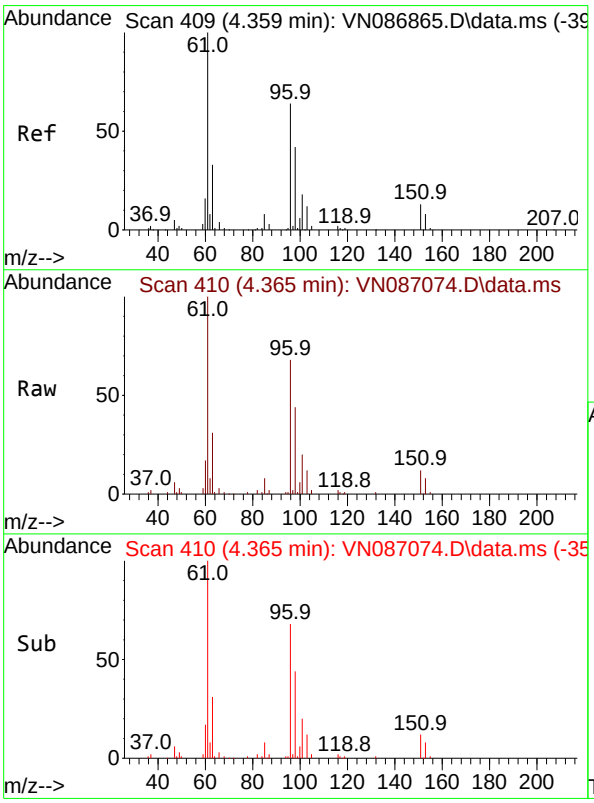
#11
Tert butyl alcohol
Concen: 210.527 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 166122

Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.1	12.1

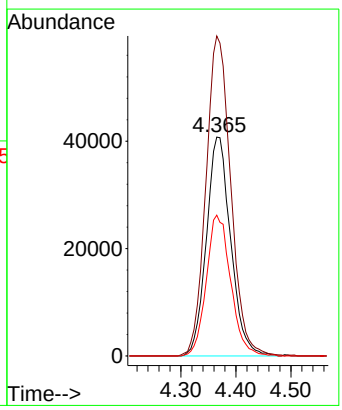


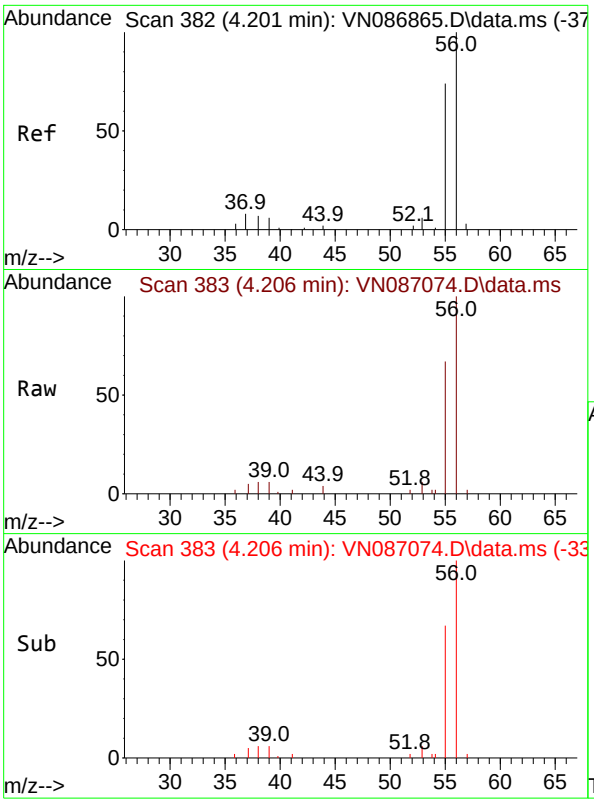


#12
1,1-Dichloroethene
Concen: 51.903 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 96 Resp: 125476

Ion	Ratio	Lower	Upper
96	100		
61	146.1	125.8	188.6
98	64.3	52.5	78.7



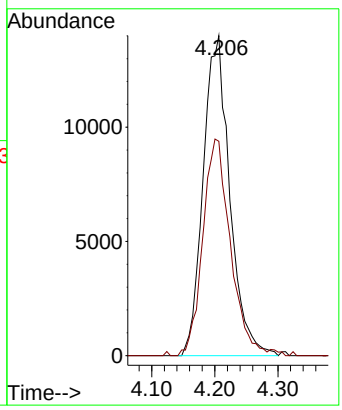


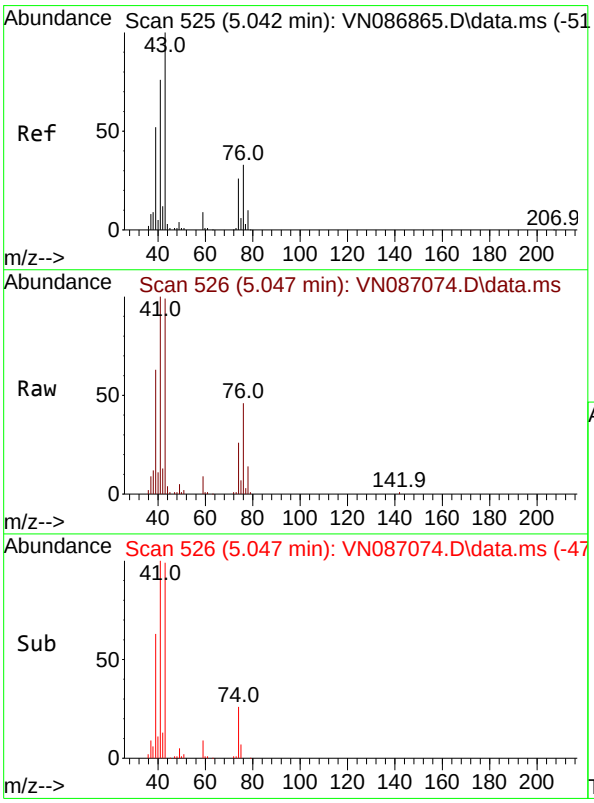
#13
Acrolein
Concen: 163.999 ug/l
RT: 4.206 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 40962

Ion	Ratio	Lower	Upper
56	100		
55	69.9	55.6	83.4

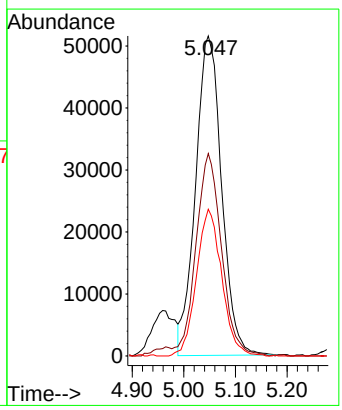


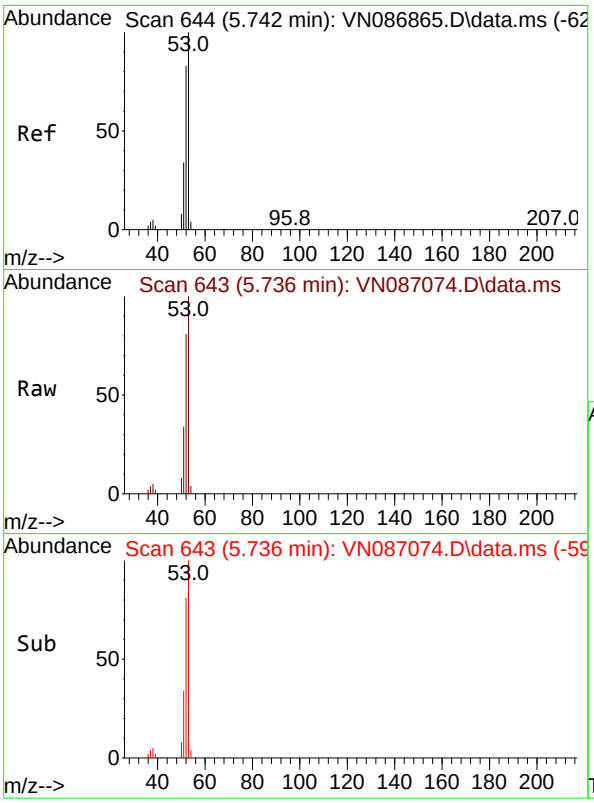


#14
Allyl chloride
Concen: 45.094 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 41 Resp: 180796

Ion	Ratio	Lower	Upper
41	100		
39	62.1	51.3	76.9
76	44.5	31.4	47.0



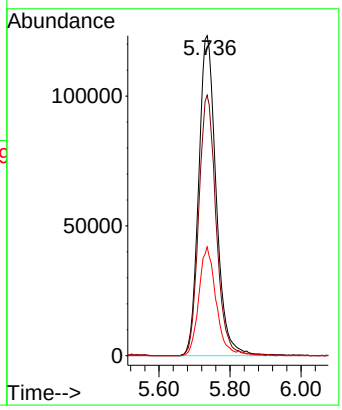


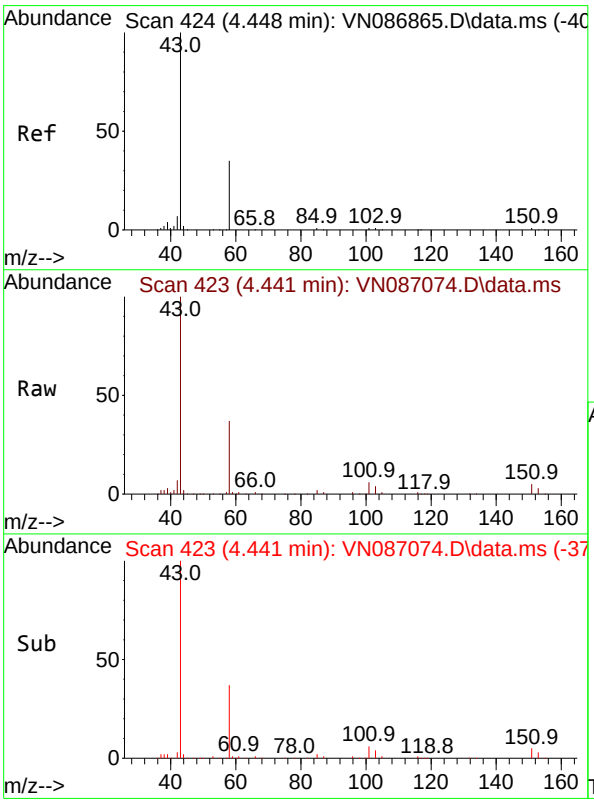
#15
Acrylonitrile
Concen: 229.103 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 422547

Ion	Ratio	Lower	Upper
53	100		
52	80.7	65.0	97.6
51	33.7	27.2	40.8

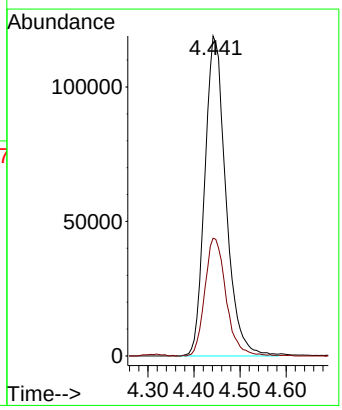


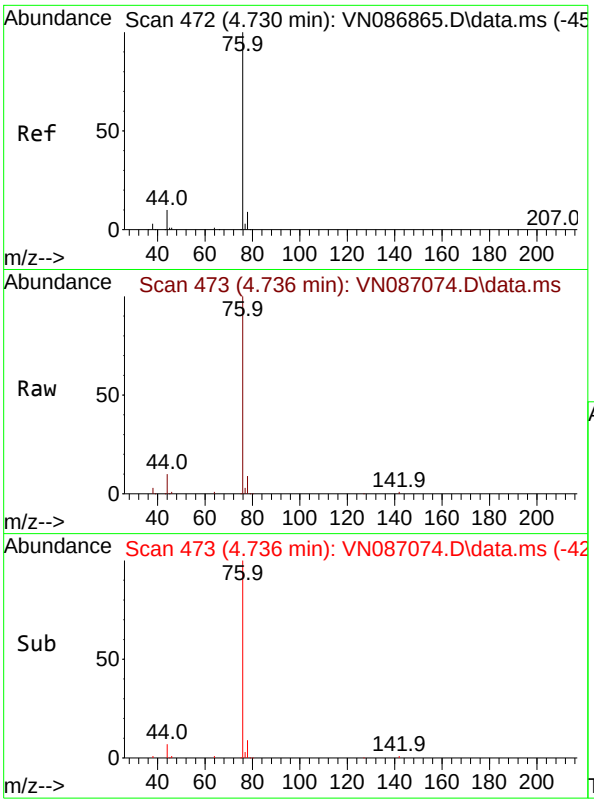


#16
Acetone
Concen: 245.332 ug/l
RT: 4.441 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 43 Resp: 378344

Ion	Ratio	Lower	Upper
43	100		
58	36.8	28.0	42.0



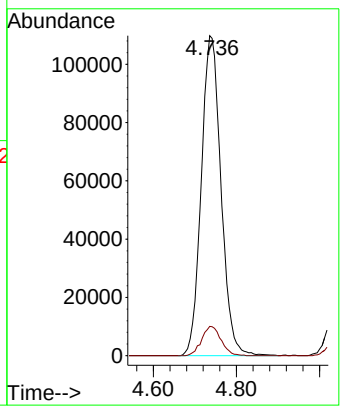


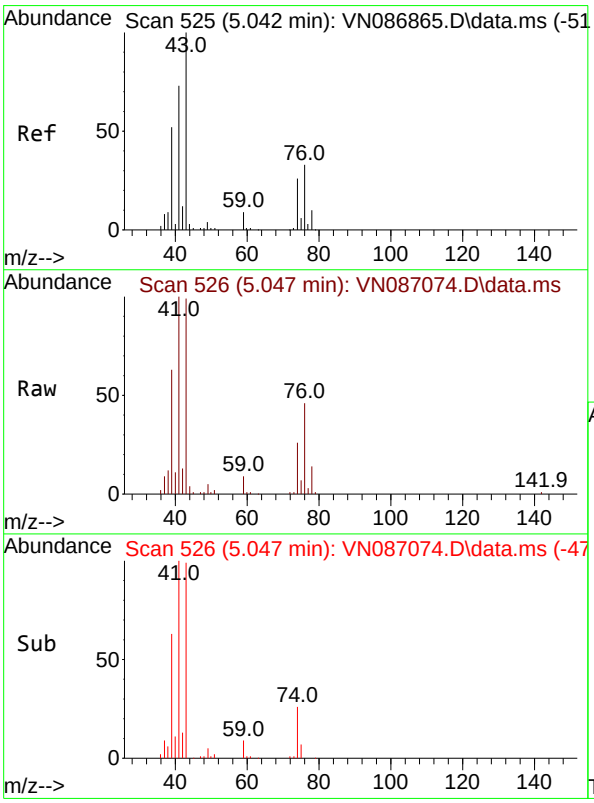
#17
Carbon Disulfide
Concen: 54.081 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 361644

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9

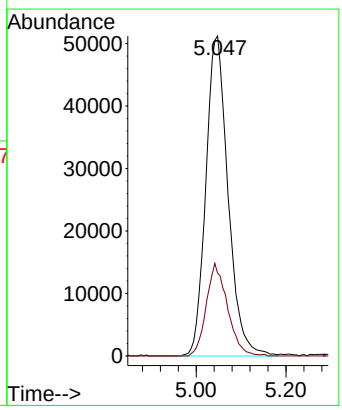


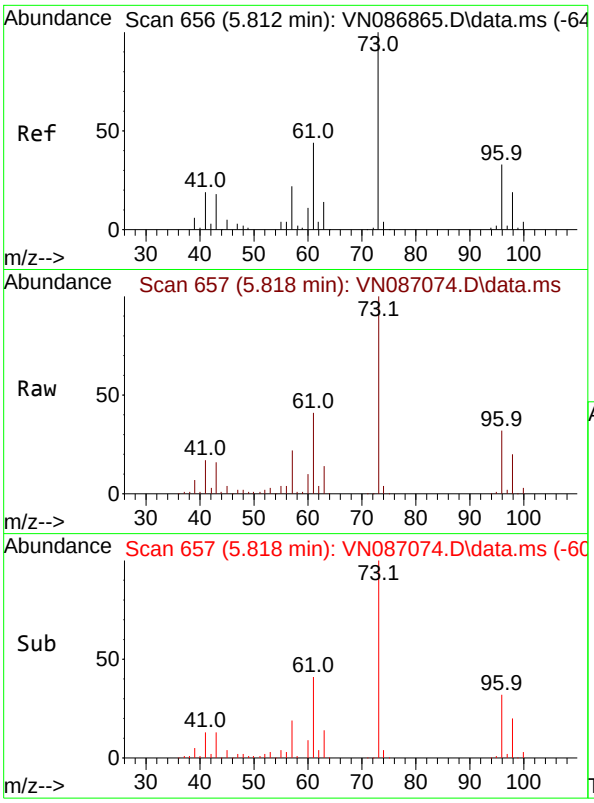


#18
Methyl Acetate
Concen: 39.139 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 43 Resp: 175895

Ion	Ratio	Lower	Upper
43	100		
74	27.6	20.7	31.1



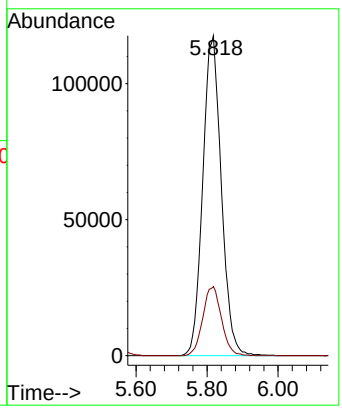


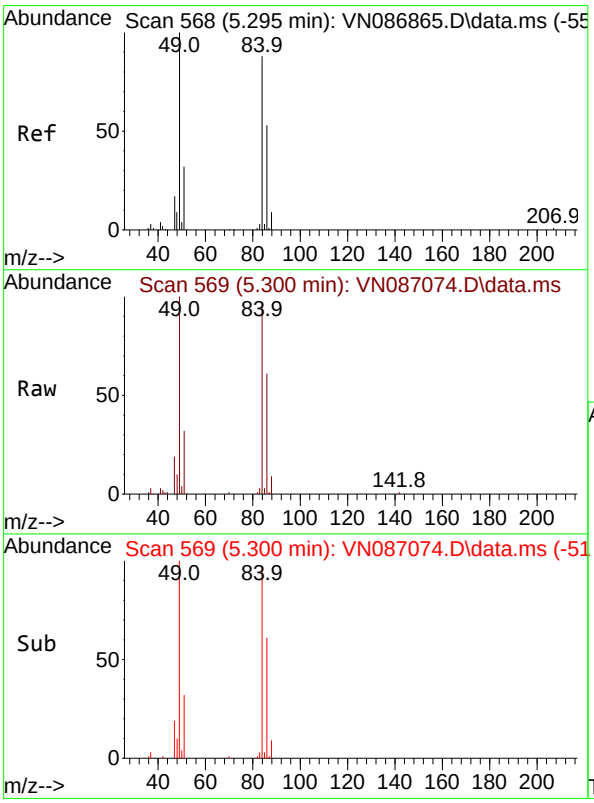
#19
Methyl tert-butyl Ether
Concen: 48.841 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 427520

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.4	26.2

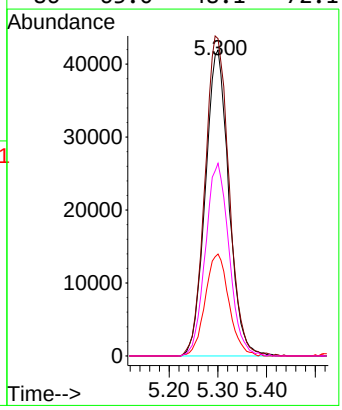


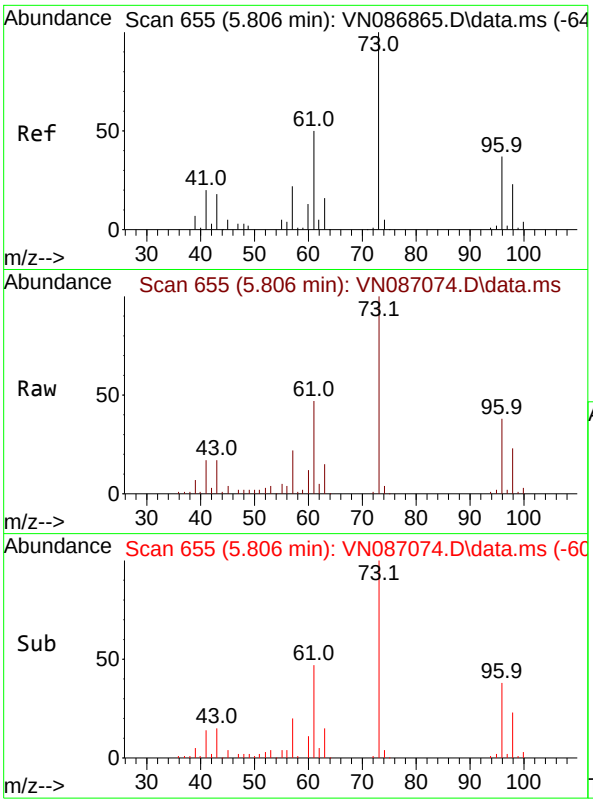


#20
Methylene Chloride
Concen: 48.688 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 84 Resp: 140573

Ion	Ratio	Lower	Upper
84	100		
49	103.7	90.5	135.7
51	33.3	28.5	42.7
86	63.0	48.1	72.1



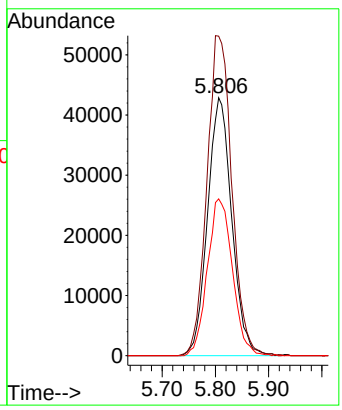


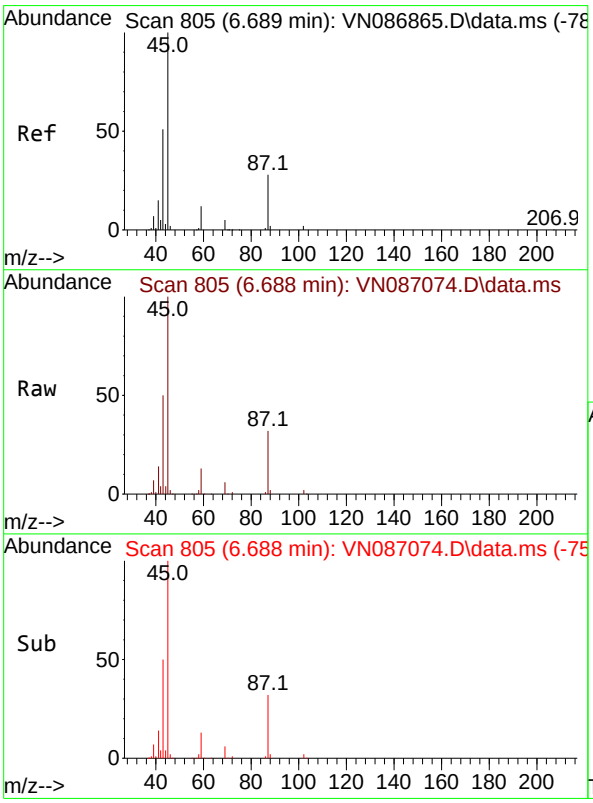
#21
trans-1,2-Dichloroethene
Concen: 50.386 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 135523

Ion	Ratio	Lower	Upper
96	100		
61	123.8	109.2	163.8
98	60.8	49.8	74.8

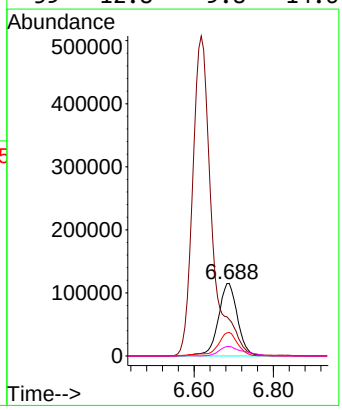


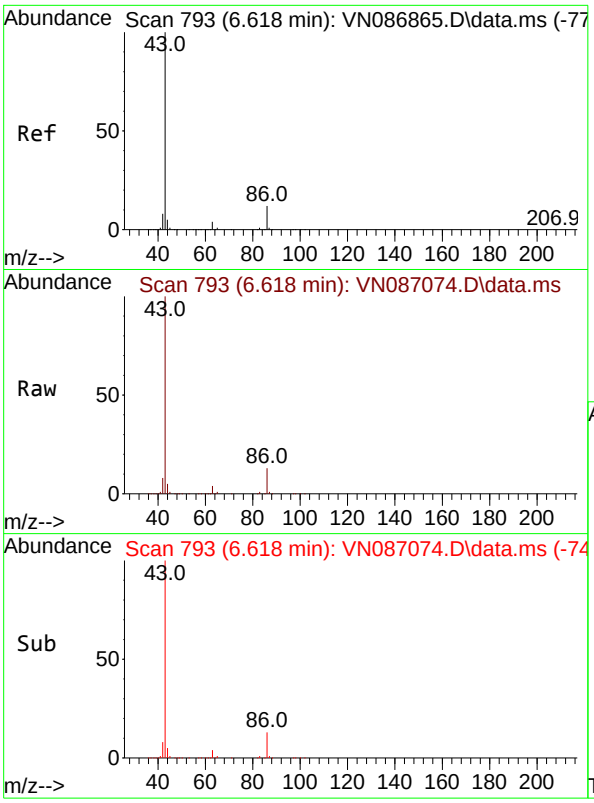


#22
Diisopropyl ether
Concen: 45.626 ug/l
RT: 6.688 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 45 Resp: 385594

Ion	Ratio	Lower	Upper
45	100		
43	49.2	41.9	62.9
87	32.3	22.4	33.6
59	12.8	9.8	14.6



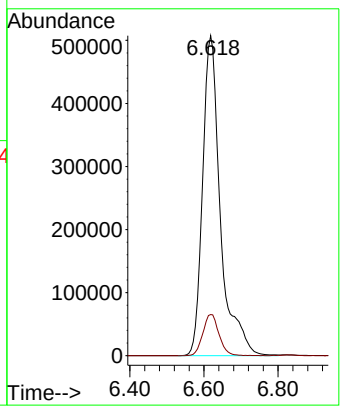


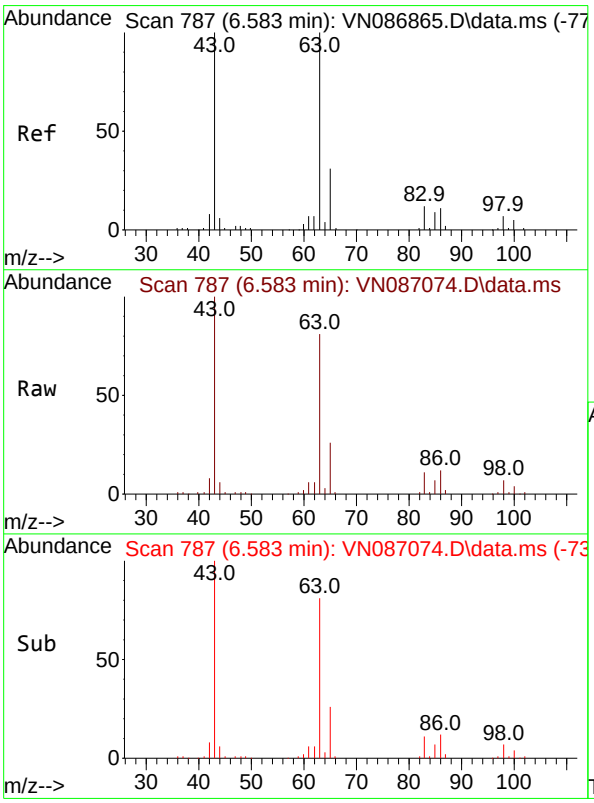
#23
Vinyl Acetate
Concen: 237.318 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1694540

Ion	Ratio	Lower	Upper
43	100		
86	12.8	9.5	14.3

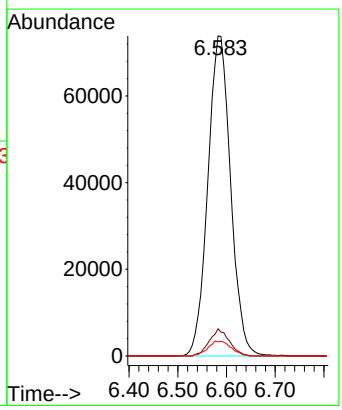


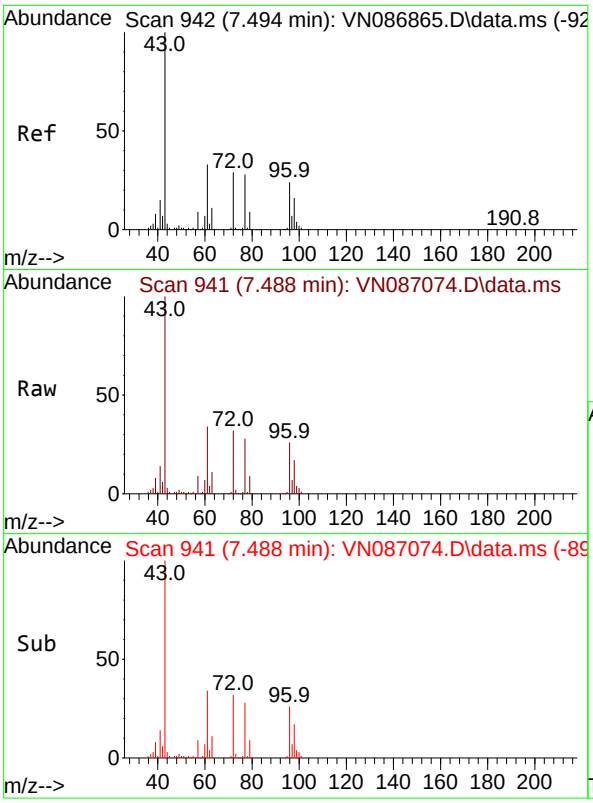


#24
1,1-Dichloroethane
Concen: 49.275 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 63 Resp: 239648

Ion	Ratio	Lower	Upper
63	100		
98	8.5	3.6	10.8
100	4.4	2.6	7.8



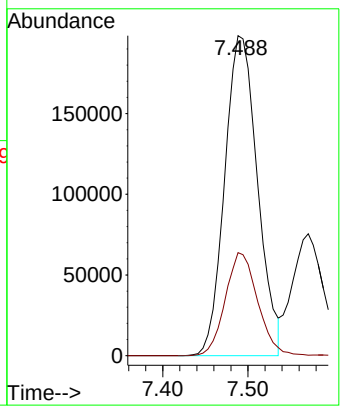


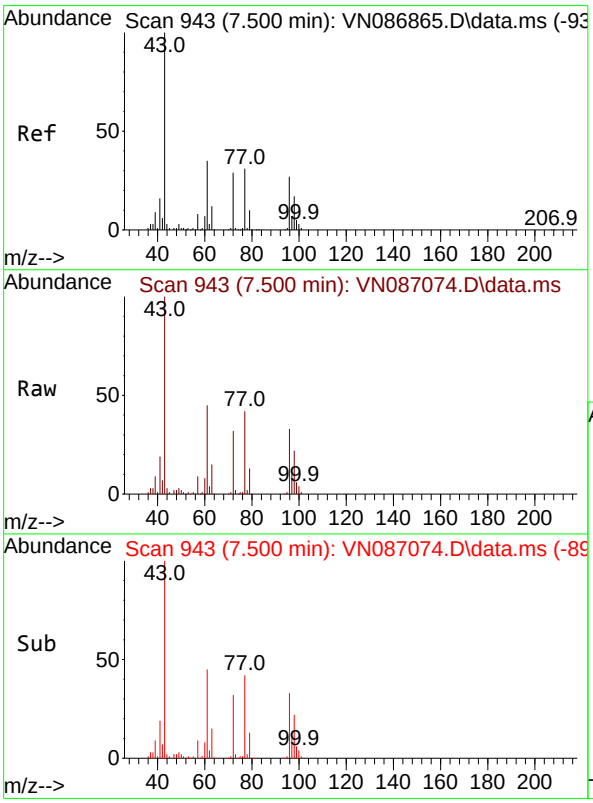
#25
2-Butanone
Concen: 211.995 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 531419

Ion	Ratio	Lower	Upper
43	100		
72	32.2	23.0	34.6

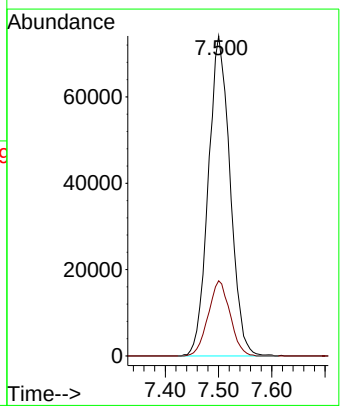


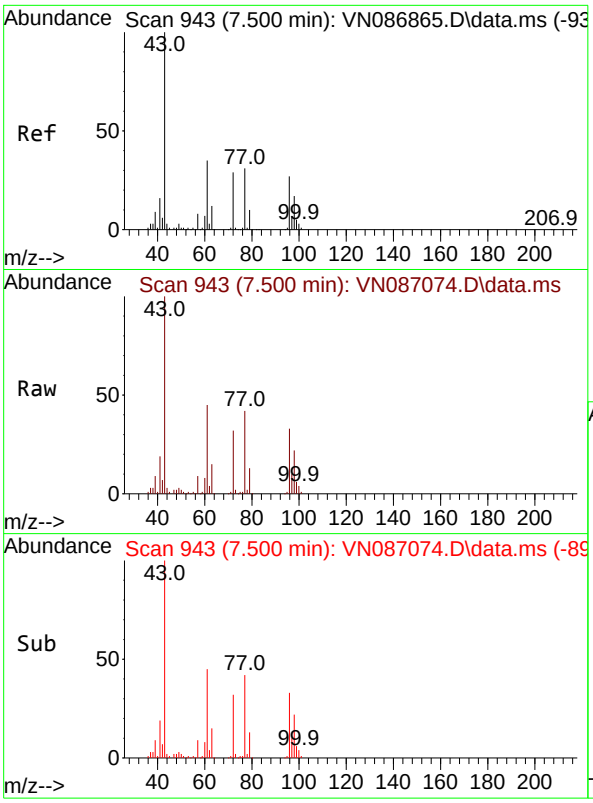


#26
2,2-Dichloropropane
Concen: 55.517 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 77 Resp: 210034

Ion	Ratio	Lower	Upper
77	100		
97	23.6	11.6	34.7



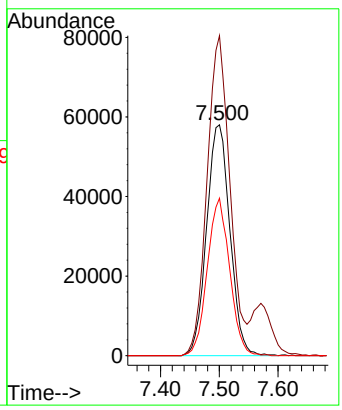


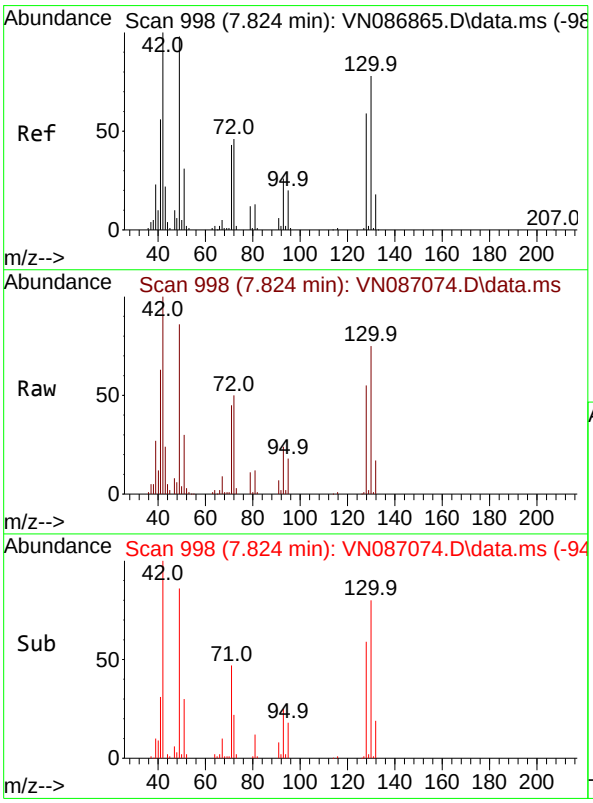
#27
cis-1,2-Dichloroethene
Concen: 49.705 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 159887

Ion	Ratio	Lower	Upper
96	100		
61	135.8	0.0	278.0
98	65.5	0.0	128.2

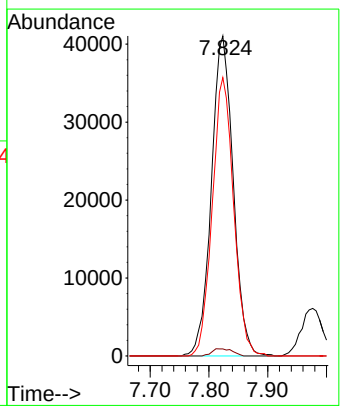


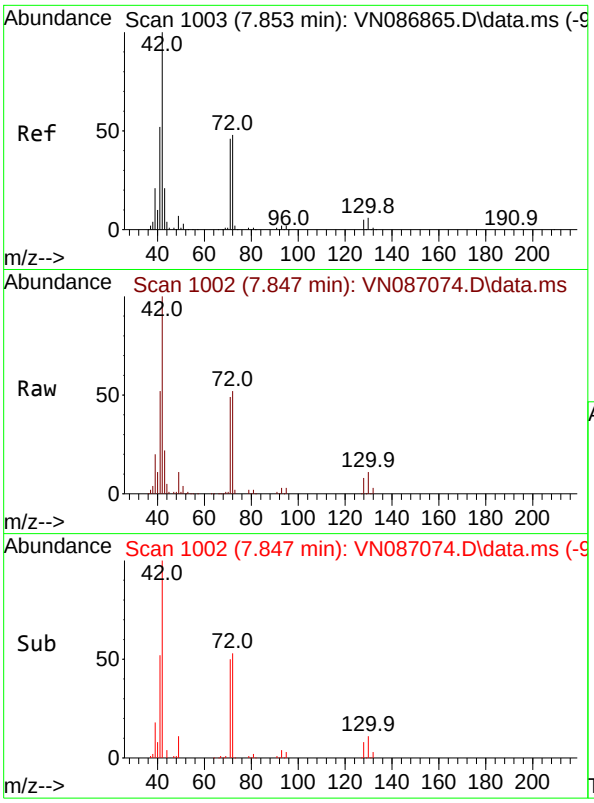


#28
Bromochloromethane
Concen: 44.293 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 49 Resp: 105918

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	3.8
130	85.0	62.2	93.2



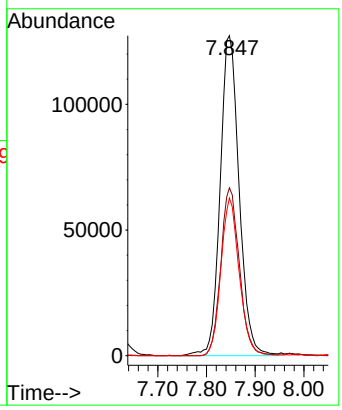


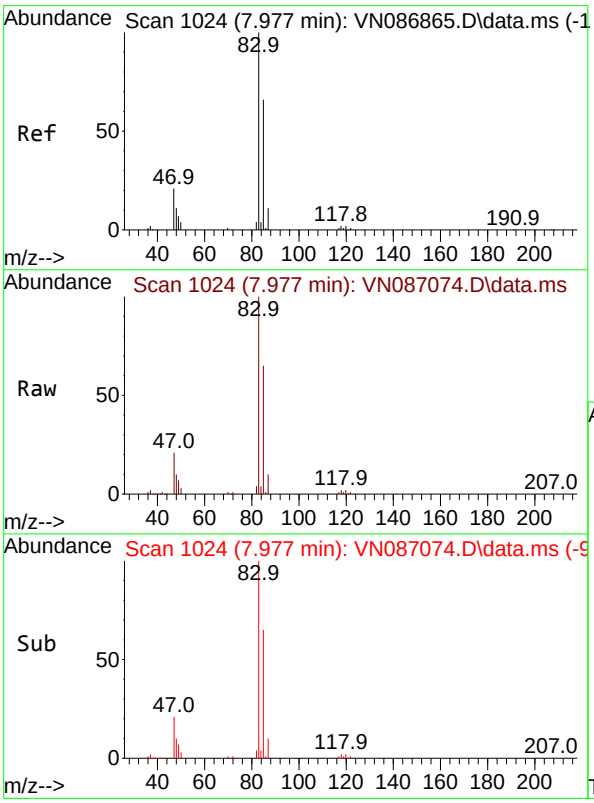
#29
Tetrahydrofuran
Concen: 211.614 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 345560

Ion	Ratio	Lower	Upper
42	100		
72	51.3	37.8	56.6
71	47.6	35.6	53.4

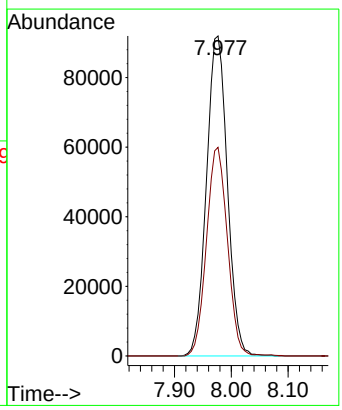


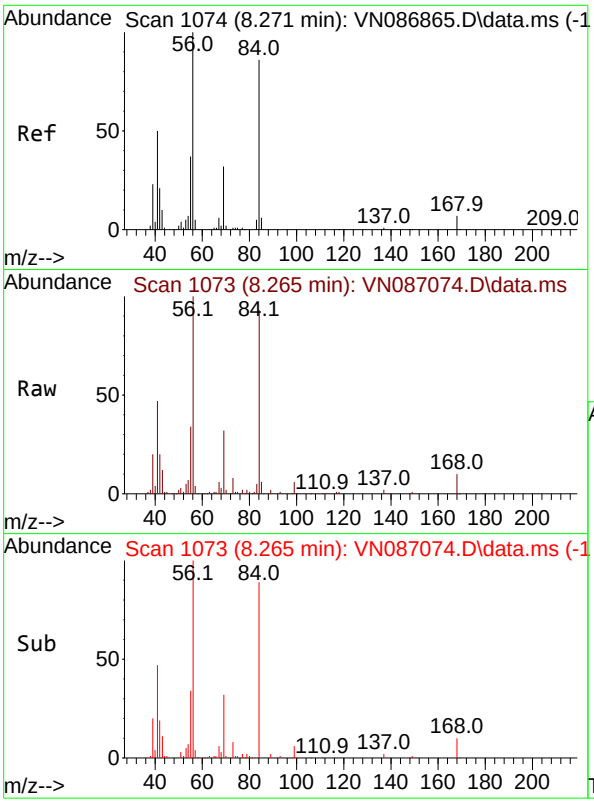


#30
Chloroform
Concen: 48.348 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 83 Resp: 234823

Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.9	79.3



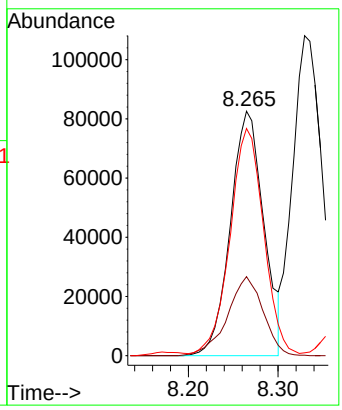


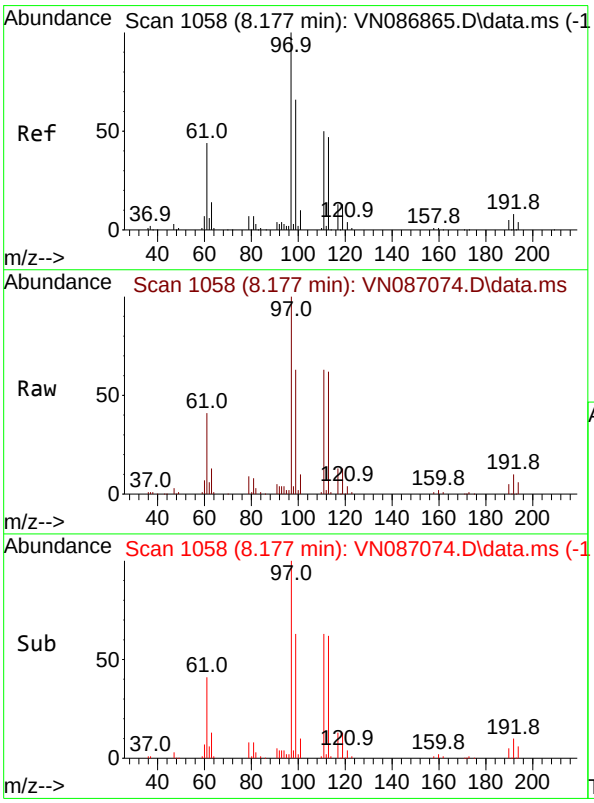
#31
Cyclohexane
Concen: 45.214 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 213255

Ion	Ratio	Lower	Upper
56	100		
69	32.3	25.4	38.0
84	91.6	68.8	103.2

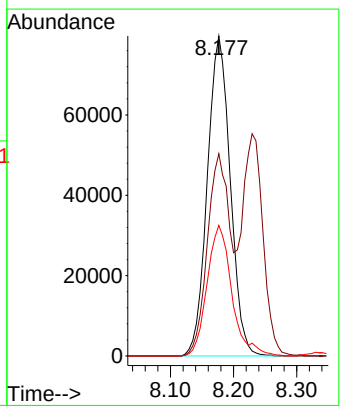


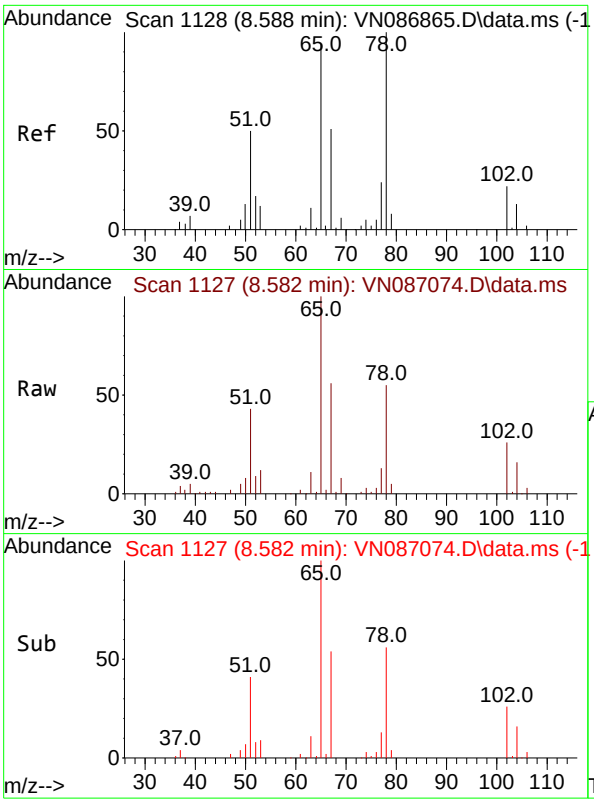


#32
1,1,1-Trichloroethane
Concen: 48.606 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 97 Resp: 200791

Ion	Ratio	Lower	Upper
97	100		
99	61.1	52.0	78.0
61	44.1	35.9	53.9



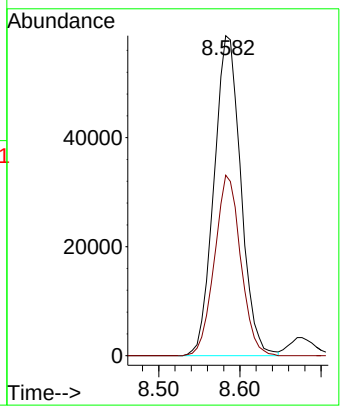


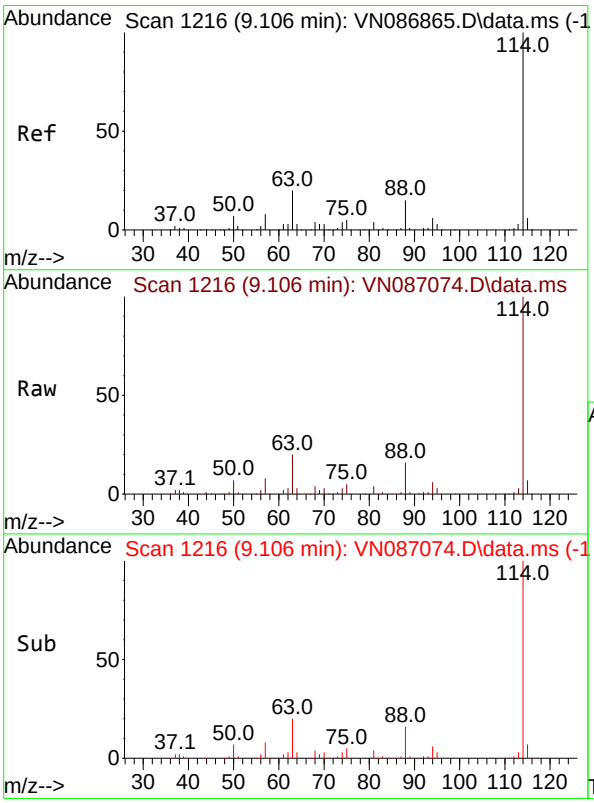
#33
1,2-Dichloroethane-d4
Concen: 46.352 ug/l
RT: 8.582 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 134796

Ion	Ratio	Lower	Upper
65	100		
67	55.0	0.0	105.6

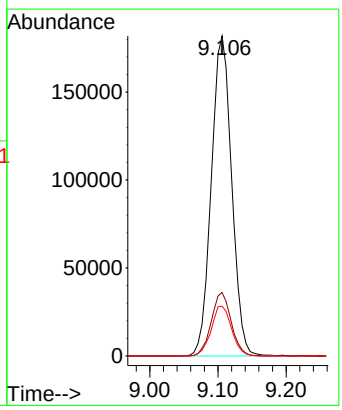


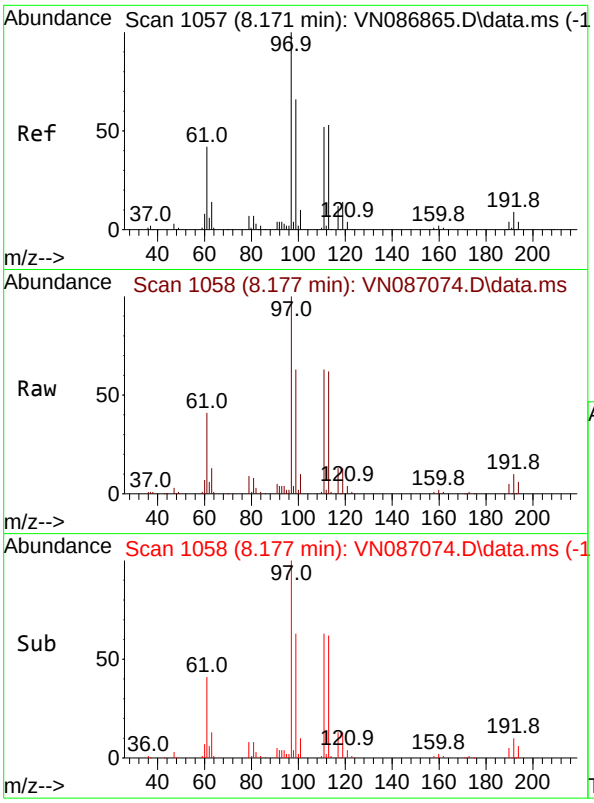


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:114 Resp: 377846

Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	39.6
88	15.6	0.0	30.2



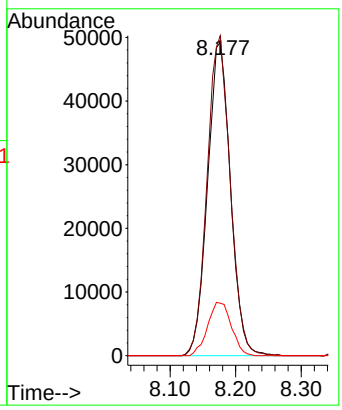


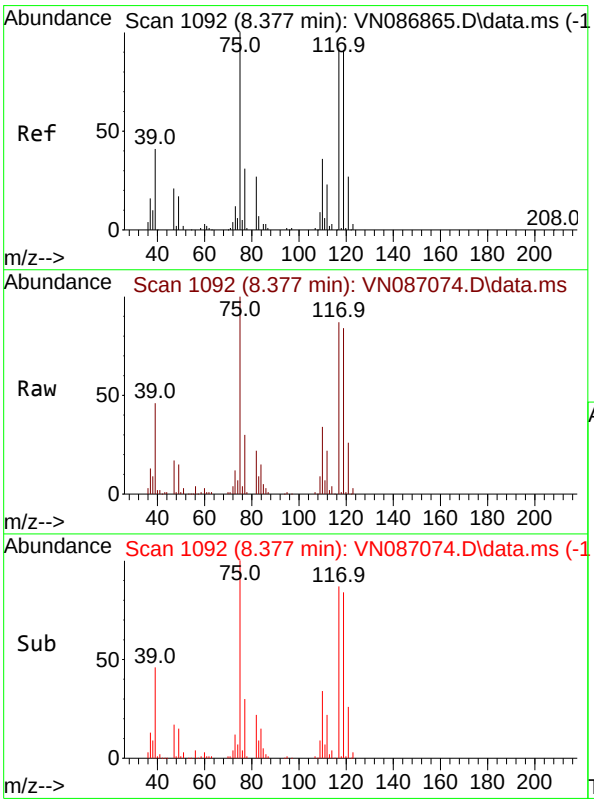
#35
Dibromofluoromethane
Concen: 53.283 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 119311

Ion	Ratio	Lower	Upper
113	100		
111	103.3	84.2	126.2
192	17.6	14.2	21.4

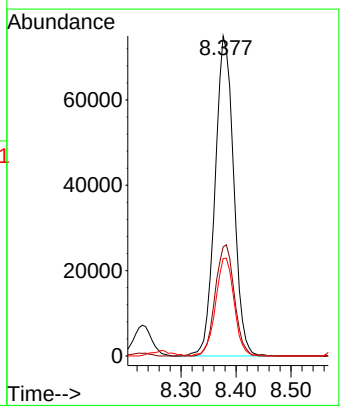


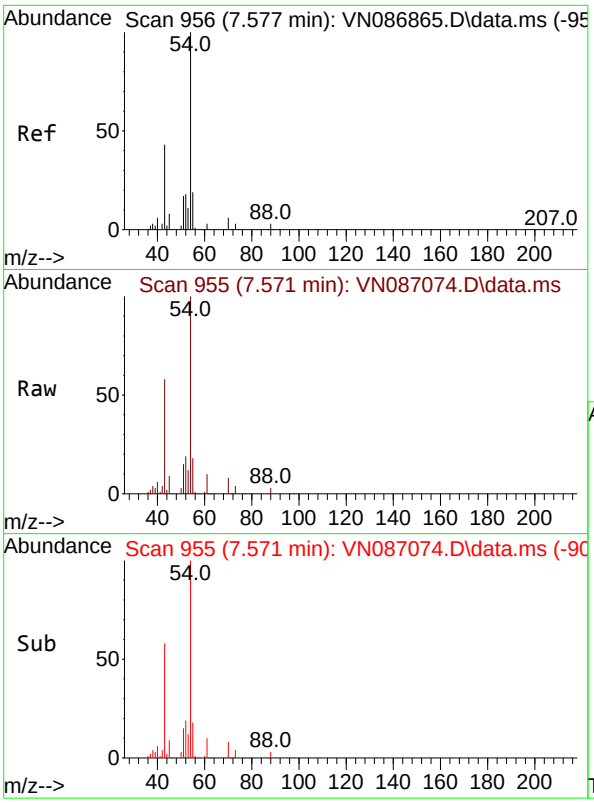


#36
1,1-Dichloropropene
Concen: 52.888 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 75 Resp: 176467

Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.6	52.9
77	30.6	25.3	37.9



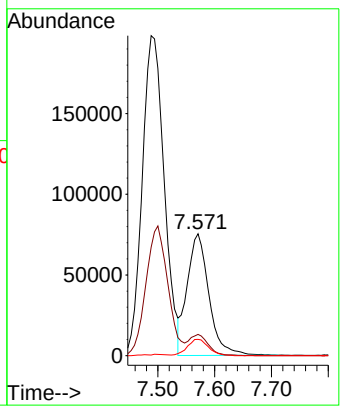


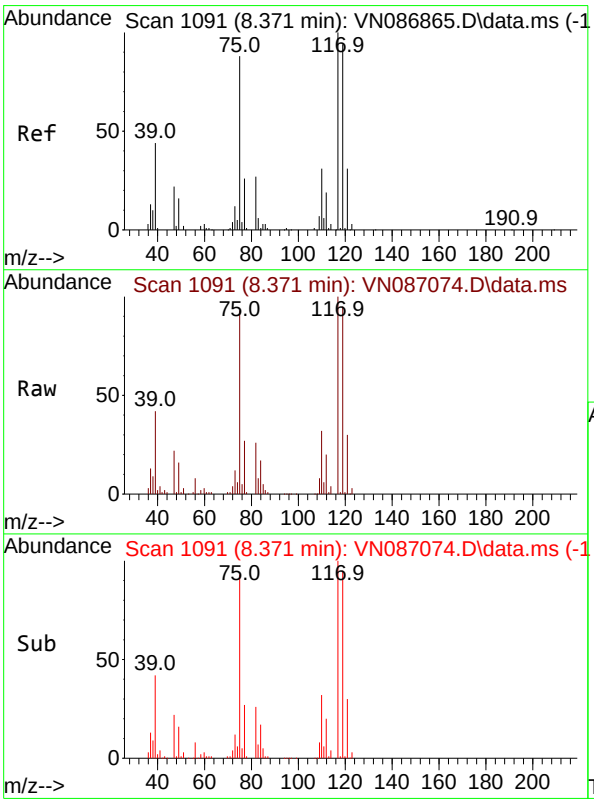
#37
Ethyl Acetate
Concen: 47.255 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 200717

Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.1	18.1
70	13.0	9.8	14.6

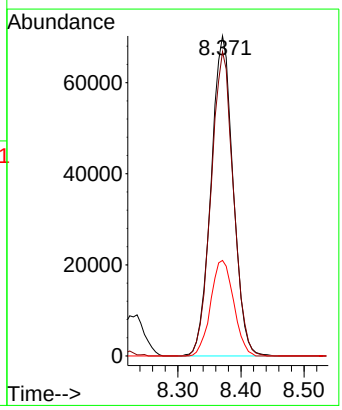


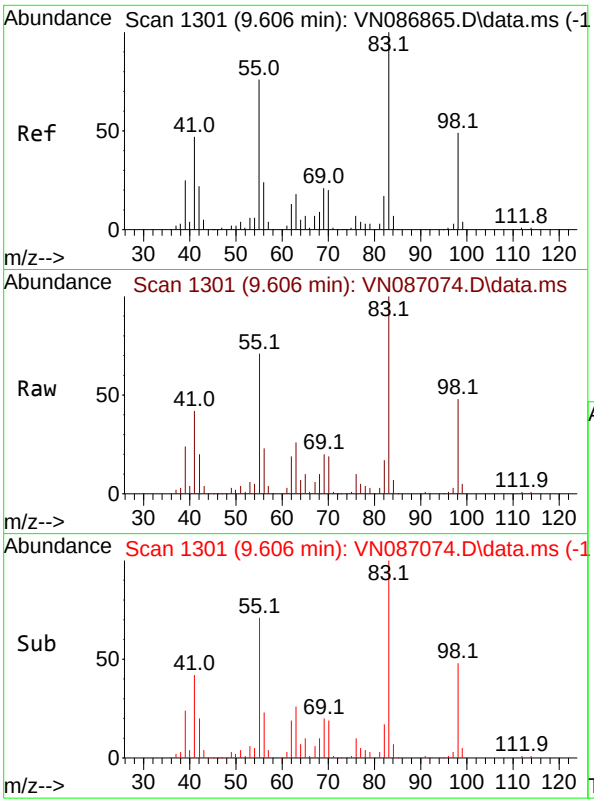


#38
Carbon Tetrachloride
Concen: 51.960 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:117 Resp: 170212

Ion	Ratio	Lower	Upper
117	100		
119	95.1	75.0	112.6
121	29.9	24.9	37.3



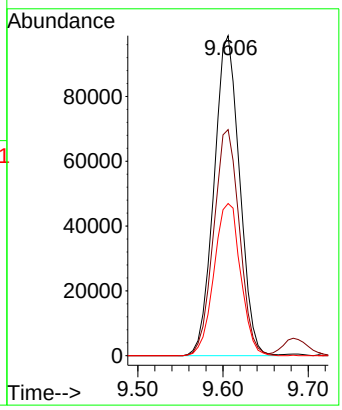


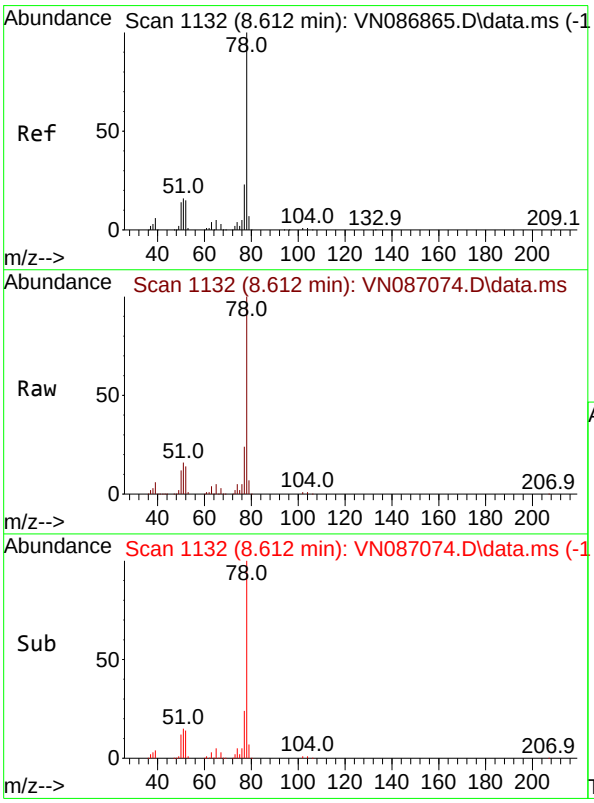
#39
Methylcyclohexane
Concen: 45.080 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 206075

Ion	Ratio	Lower	Upper
83	100		
55	70.6	61.0	91.6
98	47.5	38.9	58.3

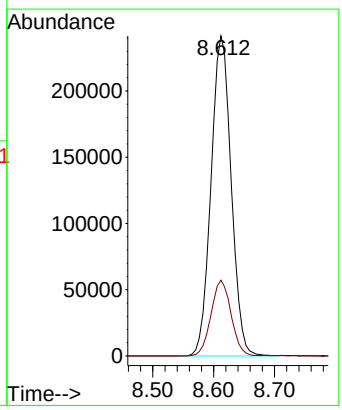


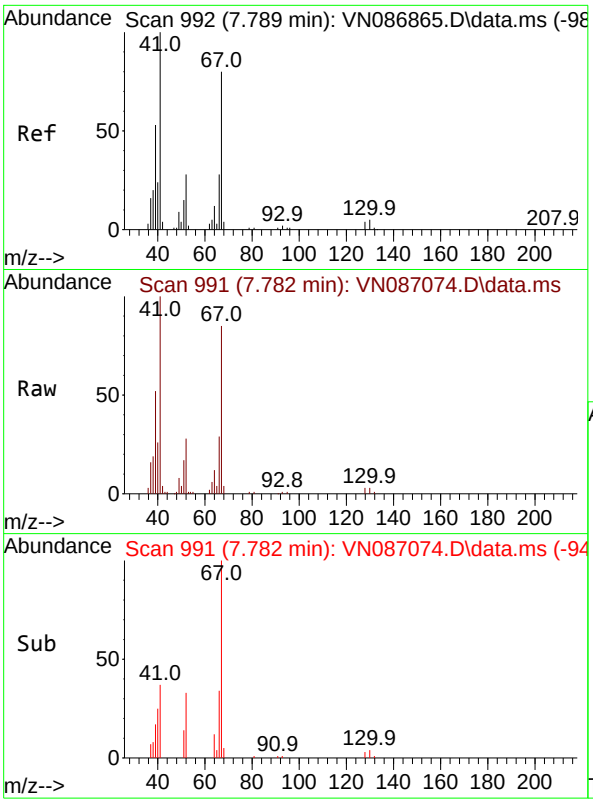


#40
Benzene
Concen: 50.844 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 78 Resp: 554750

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.7	28.1



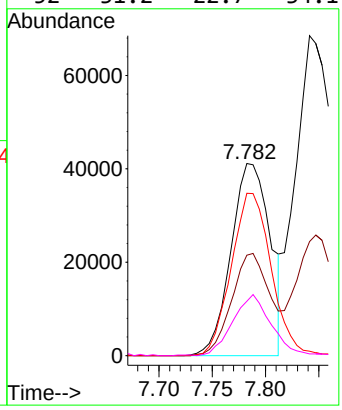


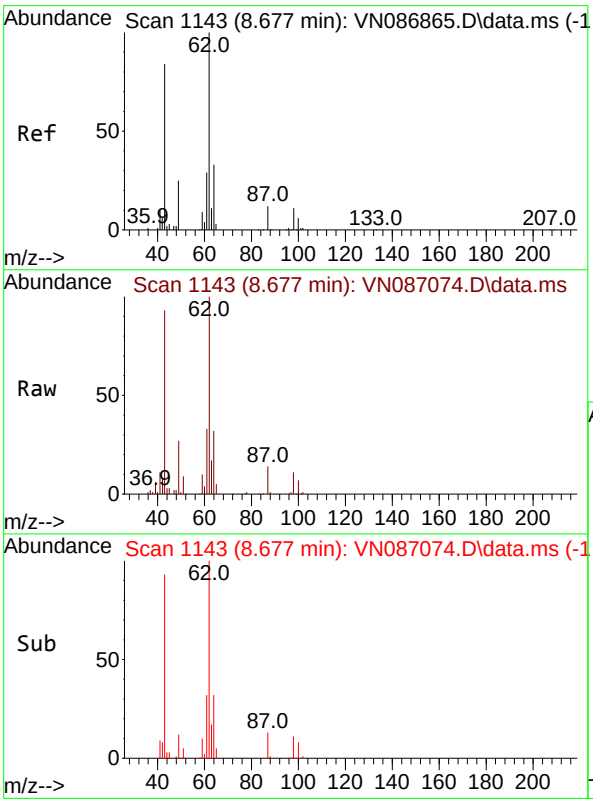
#41
Methacrylonitrile
Concen: 44.118 ug/l
RT: 7.782 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 105242

Ion	Ratio	Lower	Upper
41	100		
39	50.9	41.2	61.8
67	86.7	61.4	92.2
52	31.2	22.7	34.1

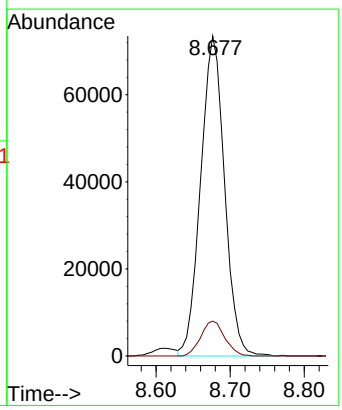


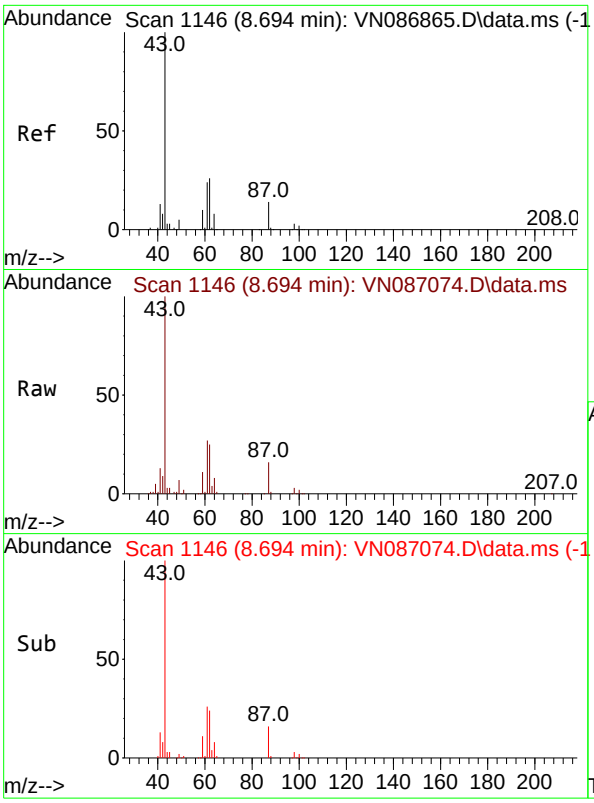


#42
1,2-Dichloroethane
Concen: 49.628 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 62 Resp: 164239

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	21.2



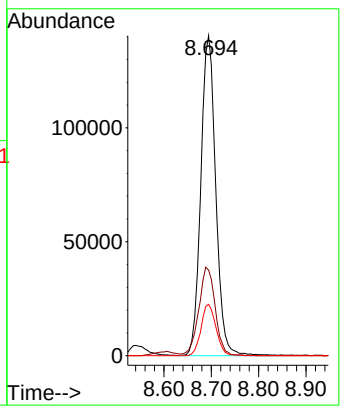


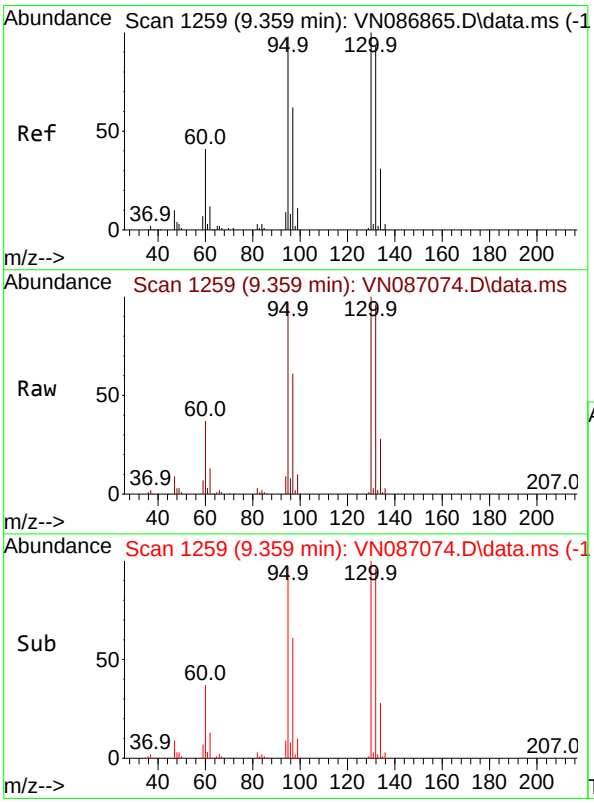
#43
Isopropyl Acetate
Concen: 45.206 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 308186

Ion	Ratio	Lower	Upper
43	100		
61	30.4	22.1	33.1
87	16.1	11.8	17.6

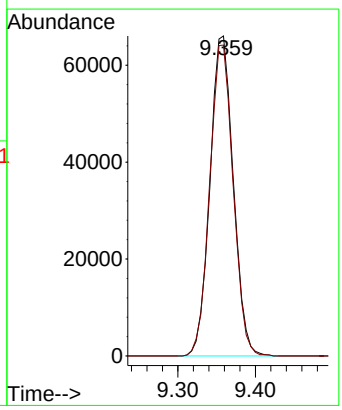


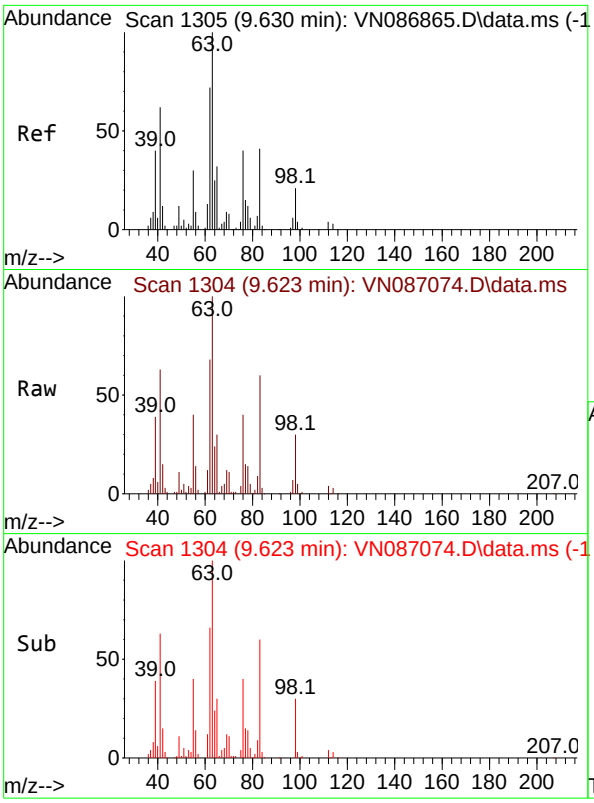


#44
Trichloroethene
Concen: 53.359 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:130 Resp: 138049

Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	196.2



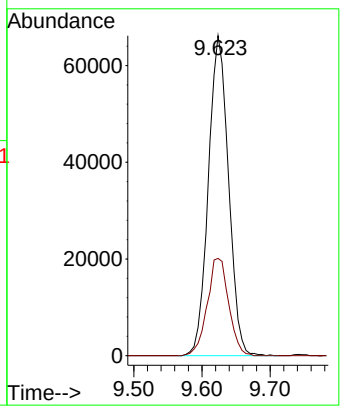


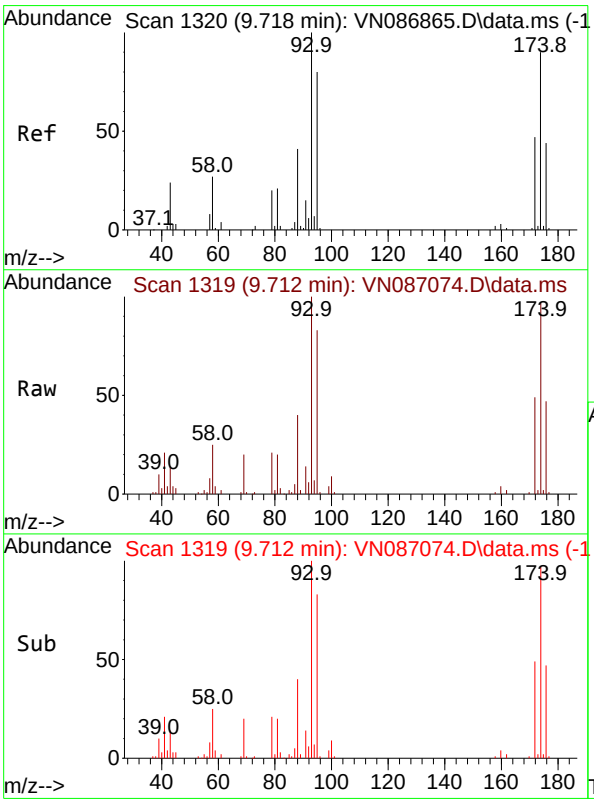
#45
1,2-Dichloropropane
Concen: 51.261 ug/l
RT: 9.623 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 136071

Ion	Ratio	Lower	Upper
63	100		
65	30.4	25.5	38.3

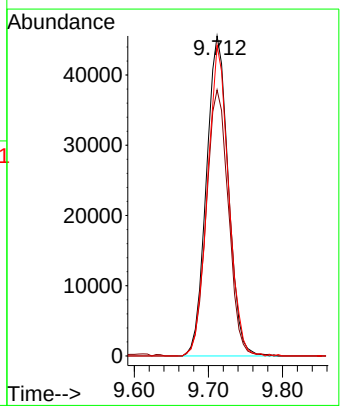


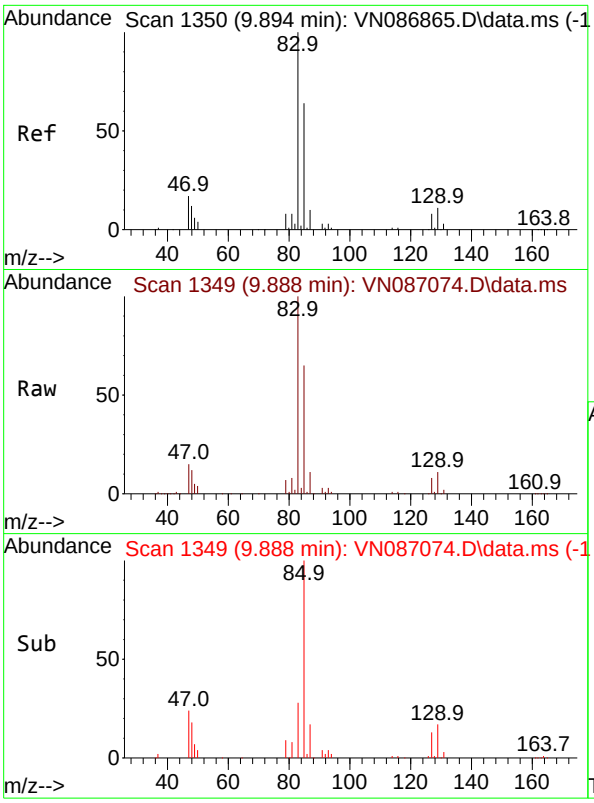


#46
Dibromomethane
Concen: 53.189 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 93 Resp: 93780

Ion	Ratio	Lower	Upper
93	100		
95	83.8	67.1	100.7
174	93.4	74.2	111.4



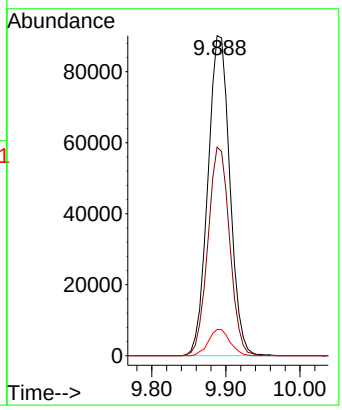


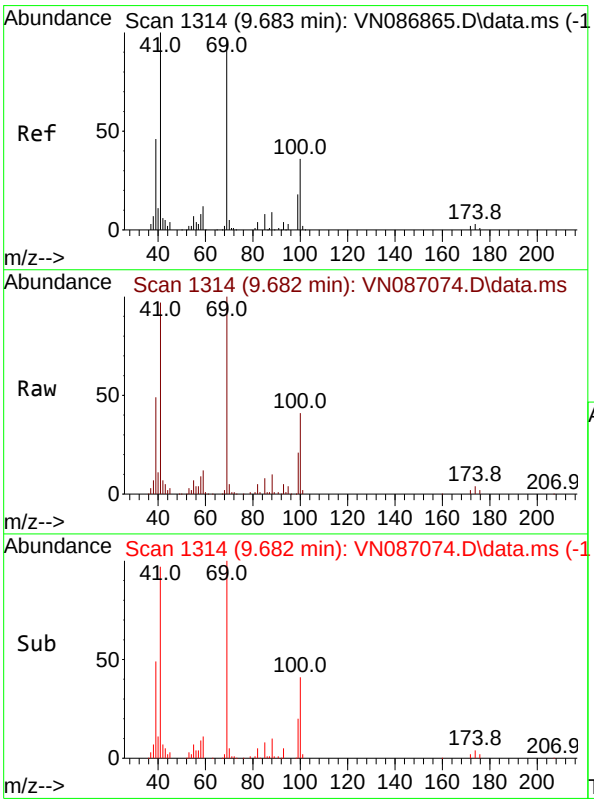
#47
Bromodichloromethane
Concen: 51.121 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 185449

Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.9	76.3
127	8.2	6.6	10.0

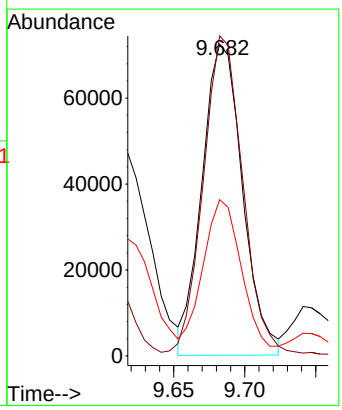


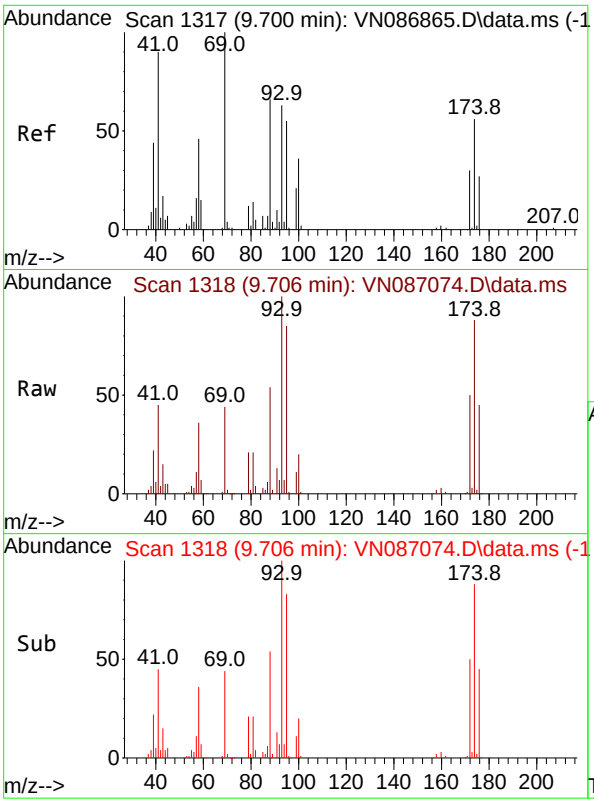


#48
Methyl methacrylate
Concen: 45.820 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 41 Resp: 143772

Ion	Ratio	Lower	Upper
41	100		
69	100.8	74.6	112.0
39	49.1	40.2	60.4



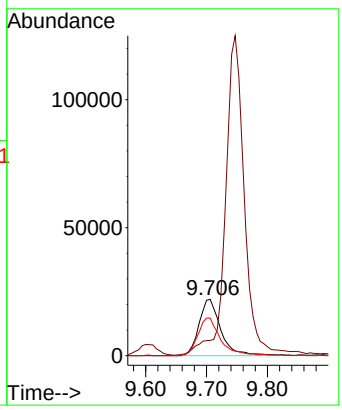


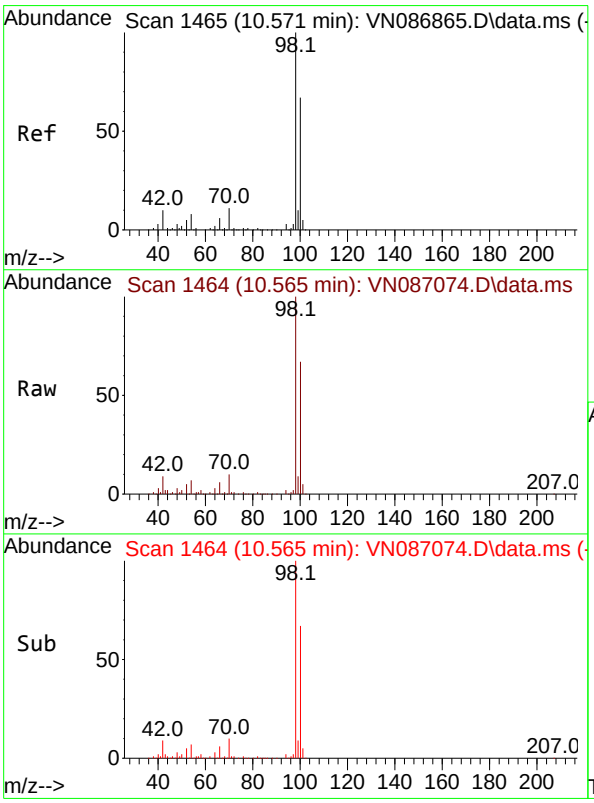
#49
1,4-Dioxane
Concen: 956.815 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 54618

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	69.3	57.7	86.5

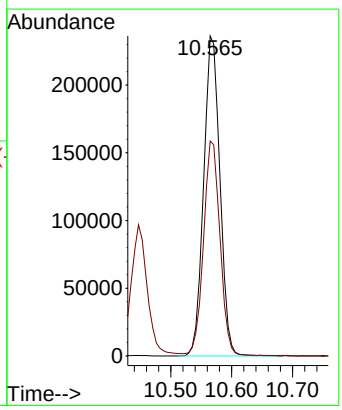


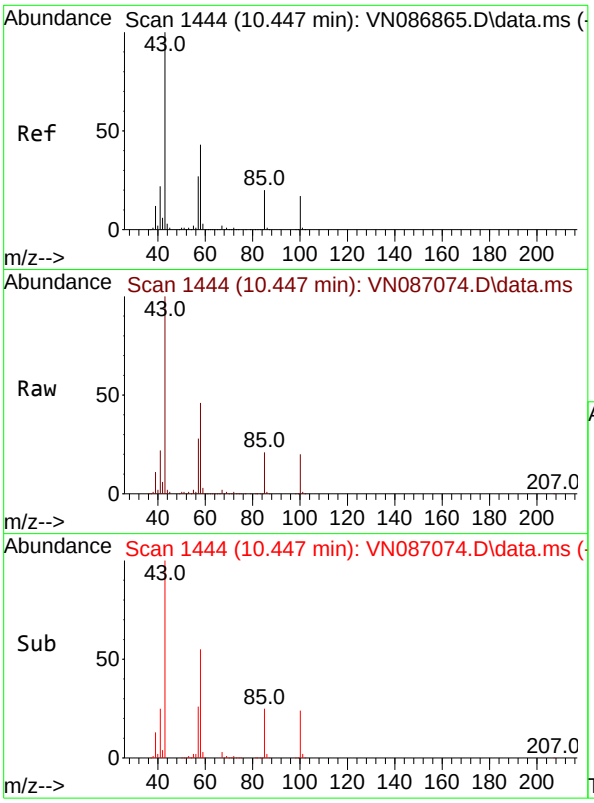


#50
Toluene-d8
Concen: 49.543 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 98 Resp: 439174

Ion	Ratio	Lower	Upper
98	100		
100	68.1	53.4	80.0



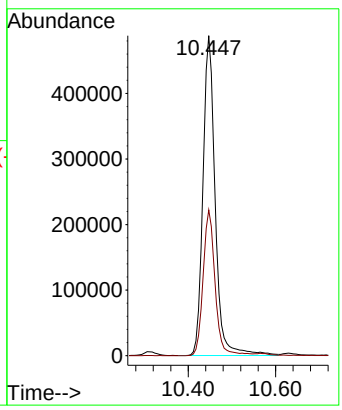


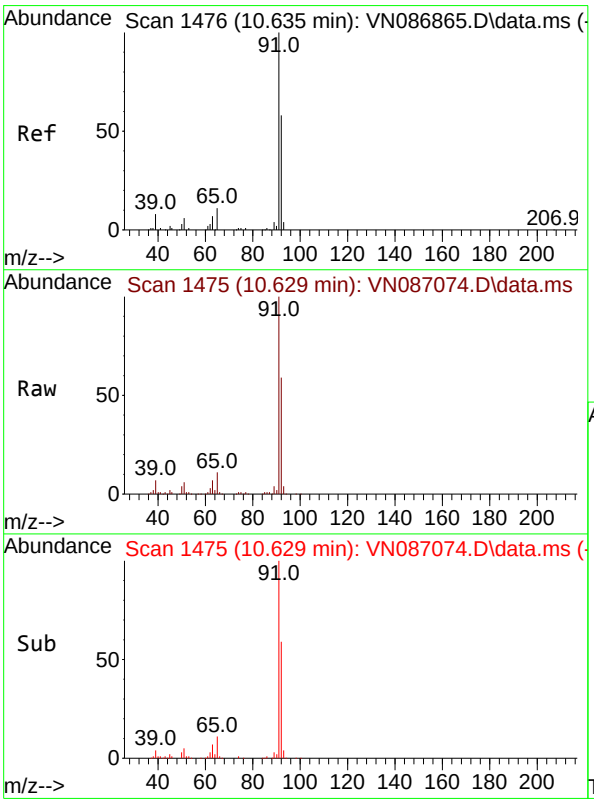
#51
4-Methyl-2-Pentanone
Concen: 232.037 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 952300

Ion	Ratio	Lower	Upper
43	100		
58	44.7	34.2	51.4

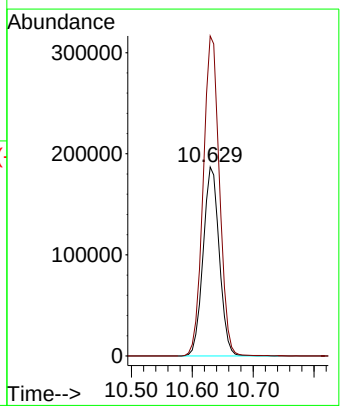


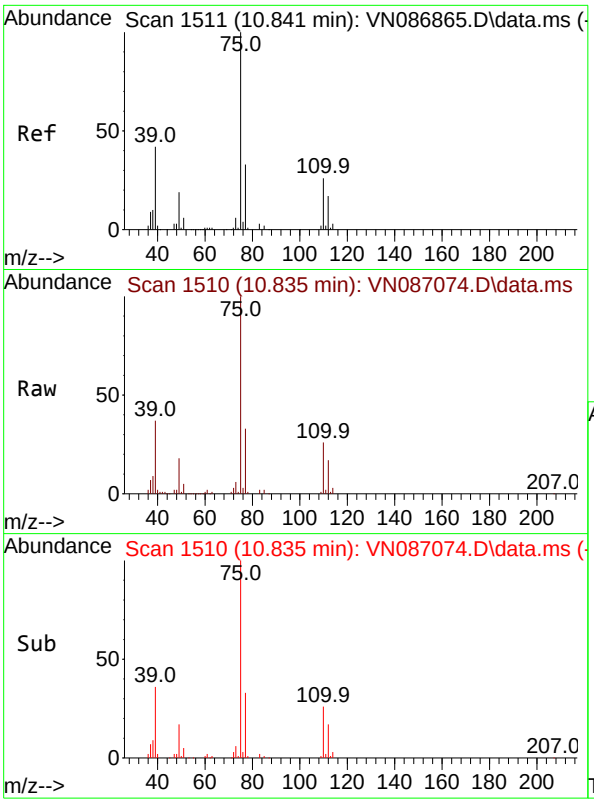


#52
Toluene
Concen: 51.712 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 92 Resp: 344814

Ion	Ratio	Lower	Upper
92	100		
91	170.3	136.5	204.7



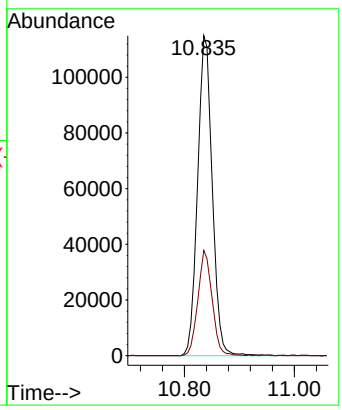


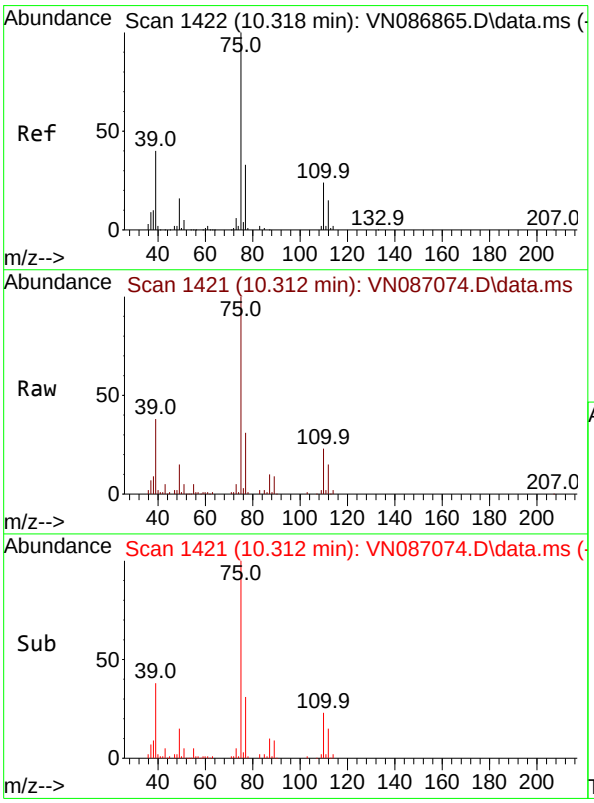
#53
t-1,3-Dichloropropene
Concen: 52.430 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 212676

Ion	Ratio	Lower	Upper
75	100		
77	32.9	26.4	39.6

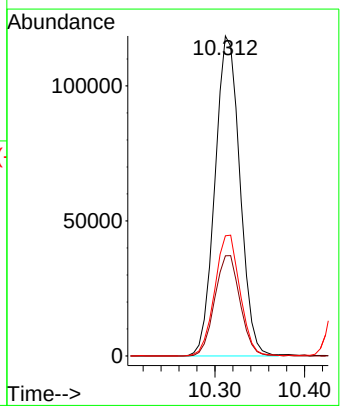


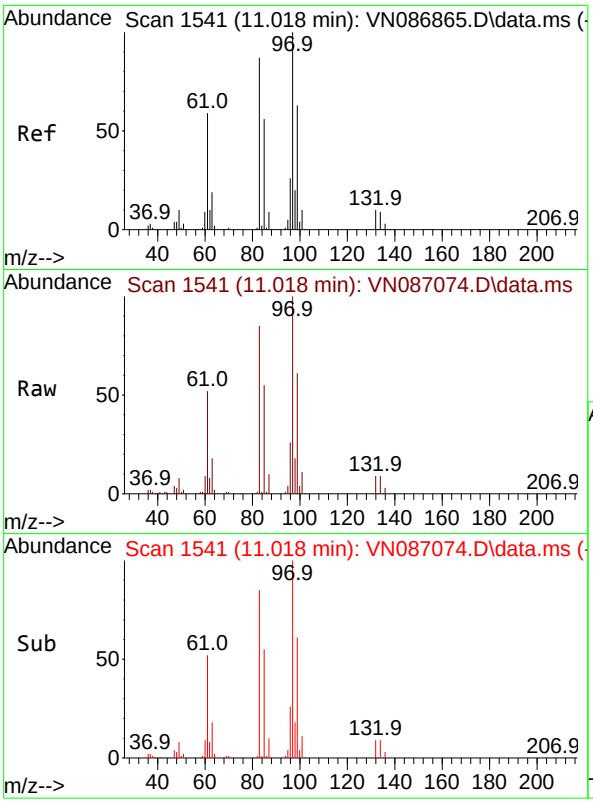


#54
cis-1,3-Dichloropropene
Concen: 52.653 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 75 Resp: 228528

Ion	Ratio	Lower	Upper
75	100		
77	31.3	26.2	39.4
39	37.5	32.3	48.5



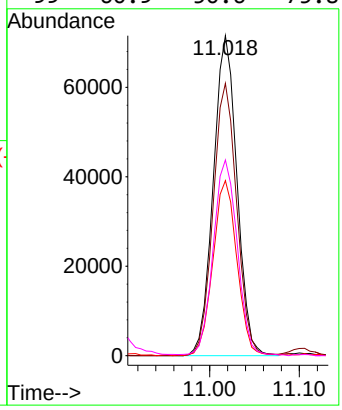


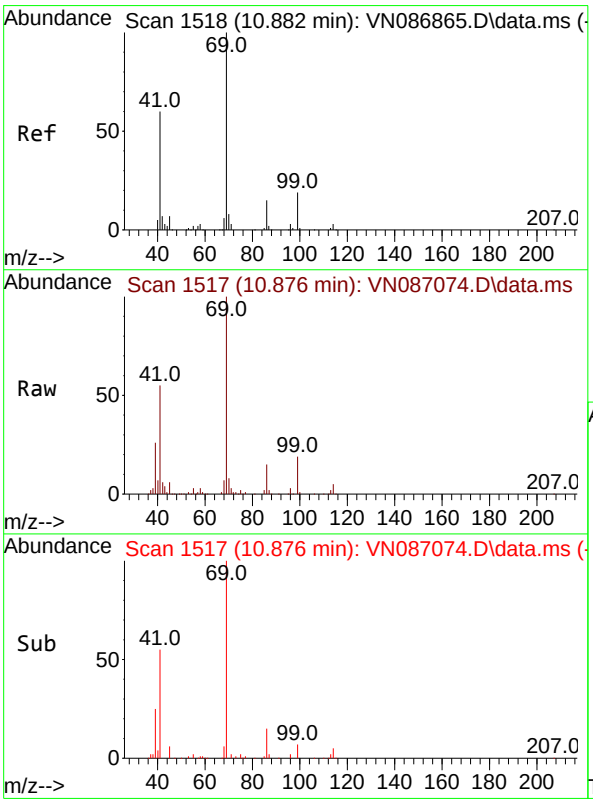
#55
1,1,2-Trichloroethane
Concen: 51.005 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 130864

Ion	Ratio	Lower	Upper
97	100		
83	85.1	69.7	104.5
85	54.5	45.1	67.7
99	60.9	50.6	75.8

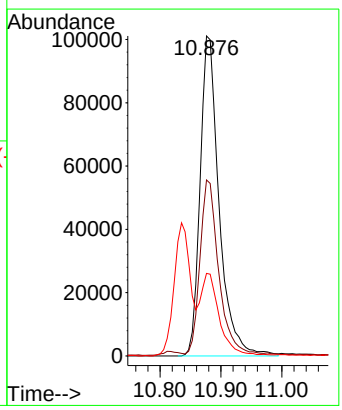


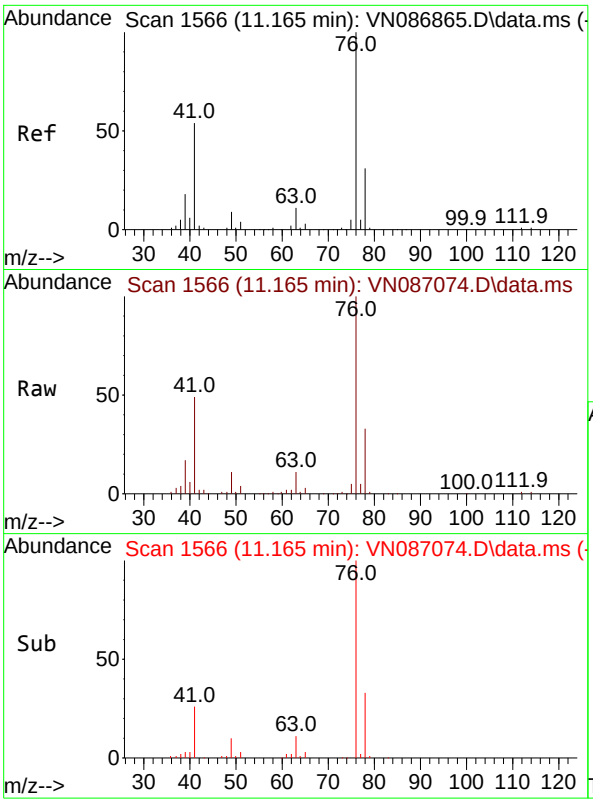


#56
Ethyl methacrylate
Concen: 53.576 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 69 Resp: 218942

Ion	Ratio	Lower	Upper
69	100		
41	54.3	47.2	70.8
39	25.1	23.0	34.6



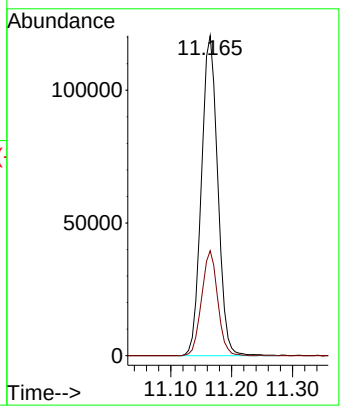


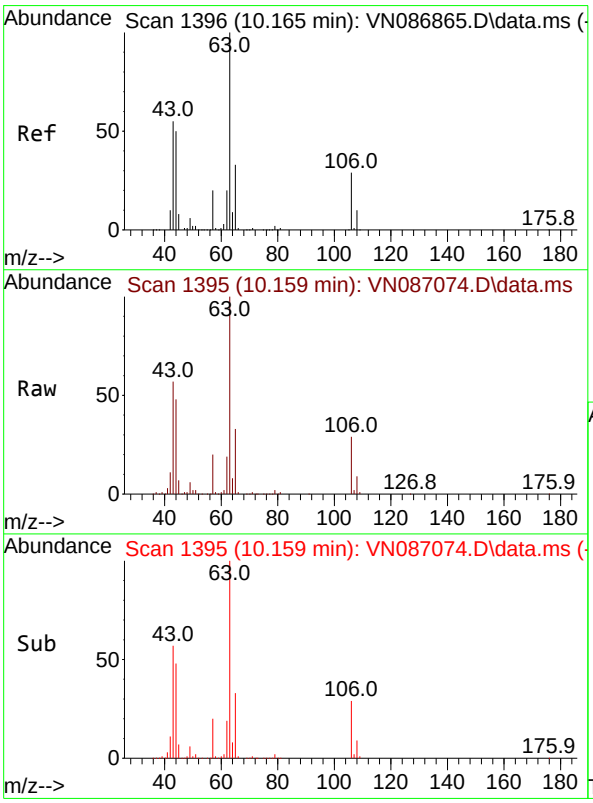
#57
1,3-Dichloropropane
Concen: 50.473 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 224646

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.3	37.9

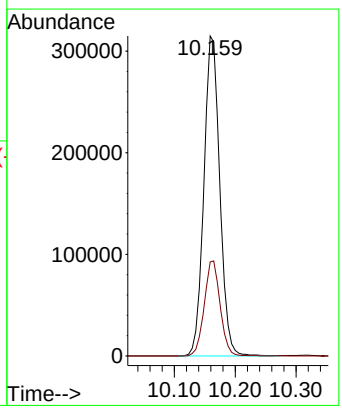


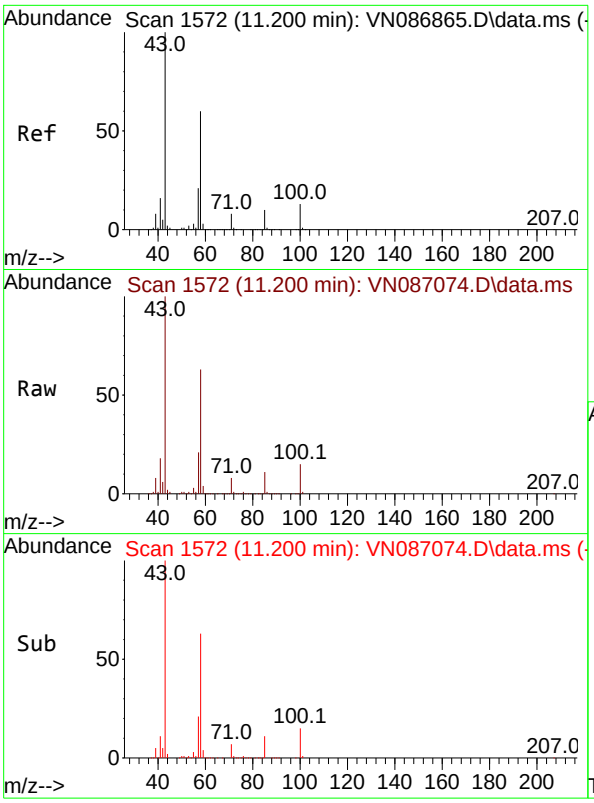


#58
2-Chloroethyl Vinyl ether
Concen: 234.289 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 63 Resp: 571062

Ion	Ratio	Lower	Upper
63	100		
106	29.7	23.0	34.6



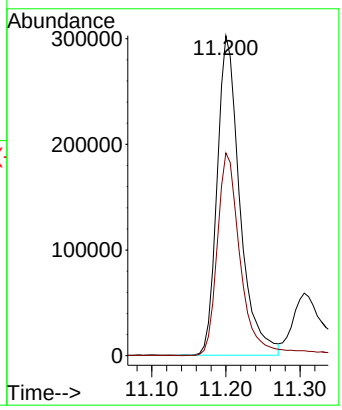


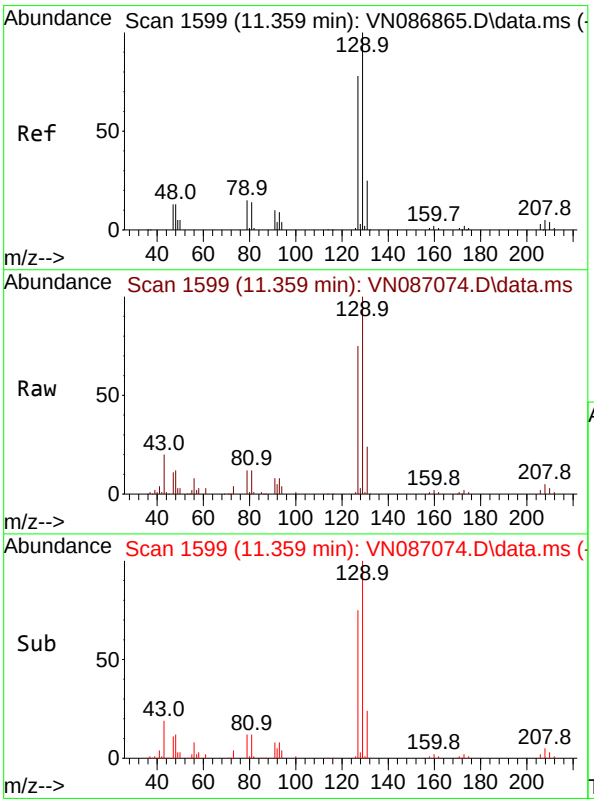
#59
2-Hexanone
Concen: 242.852 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 642002

Ion	Ratio	Lower	Upper
43	100		
58	66.8	30.4	91.3

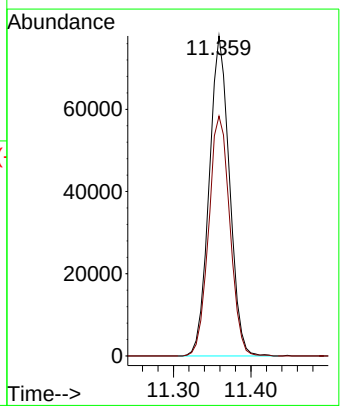


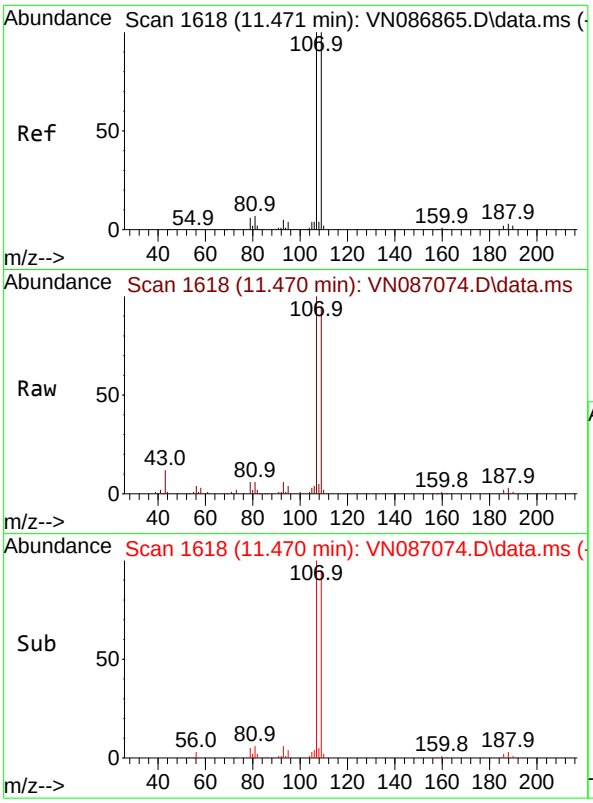


#60
Dibromochloromethane
Concen: 52.974 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:129 Resp: 141610

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	115.8



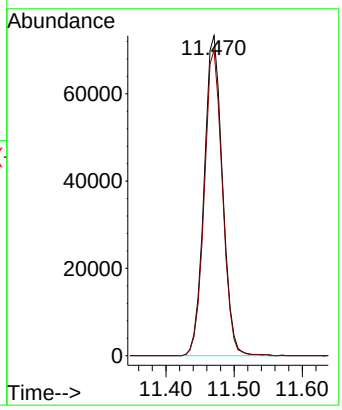


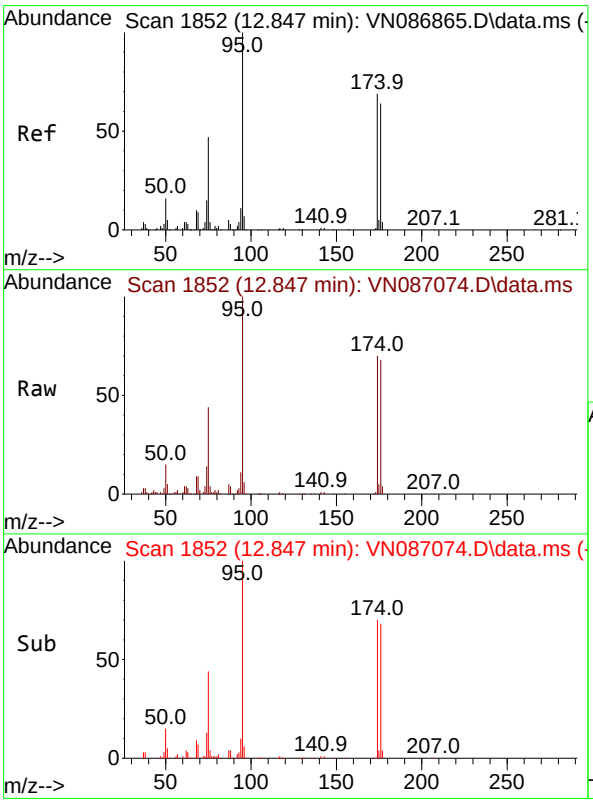
#61
1,2-Dibromoethane
Concen: 52.202 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 137281

Ion	Ratio	Lower	Upper
107	100		
109	94.3	76.3	114.5

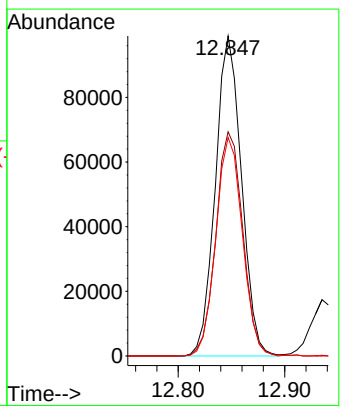


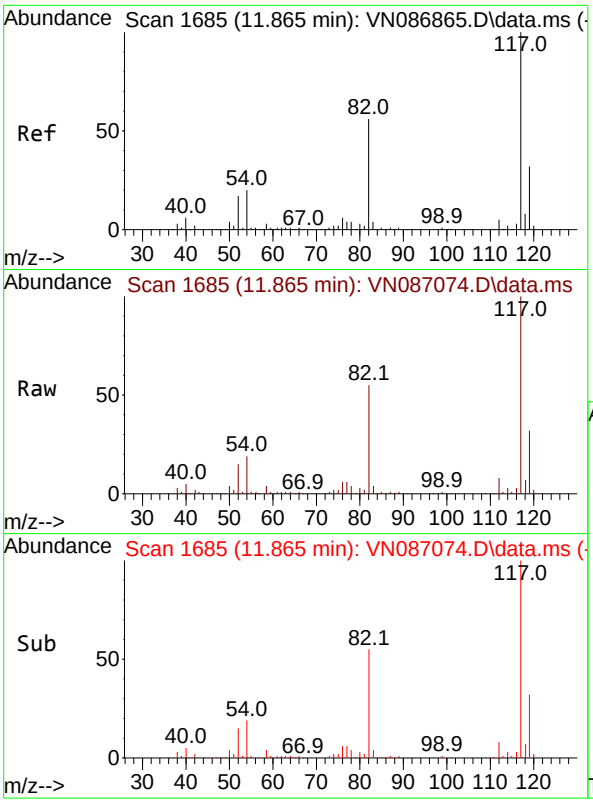


#62
4-Bromofluorobenzene
Concen: 51.228 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 95 Resp: 168714

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	141.8
176	69.4	0.0	132.6



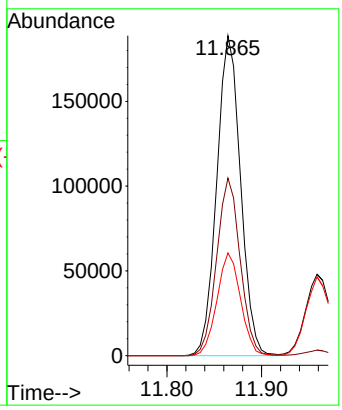


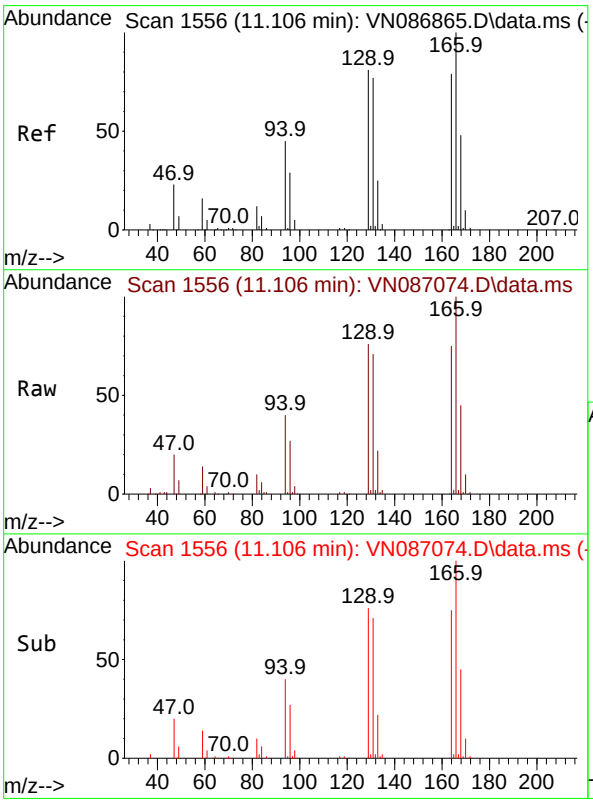
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 330017

Ion	Ratio	Lower	Upper
117	100		
82	55.5	44.6	67.0
119	32.1	25.5	38.3

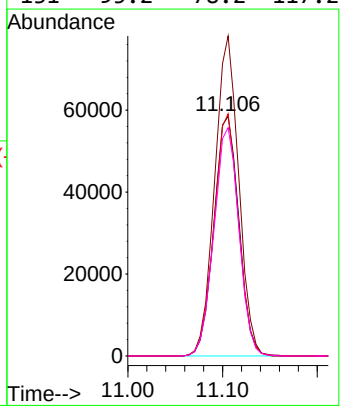


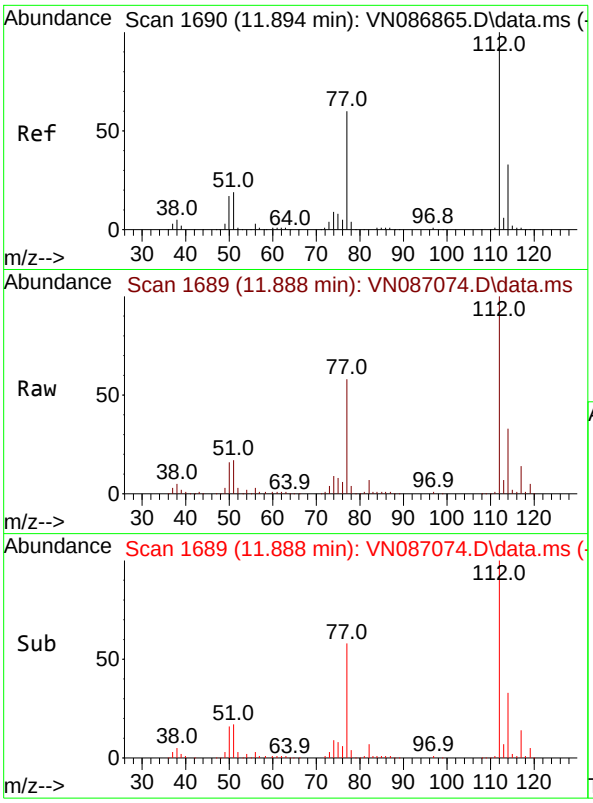


#64
Tetrachloroethene
Concen: 51.300 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:164 Resp: 107143

Ion	Ratio	Lower	Upper
164	100		
166	133.5	101.8	152.8
129	101.1	83.0	124.4
131	95.2	78.2	117.2



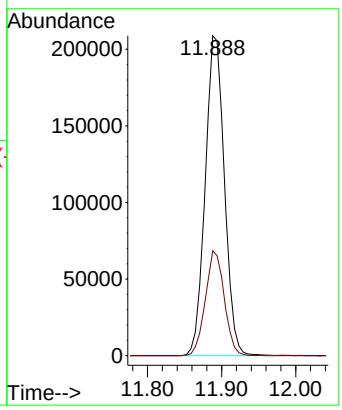


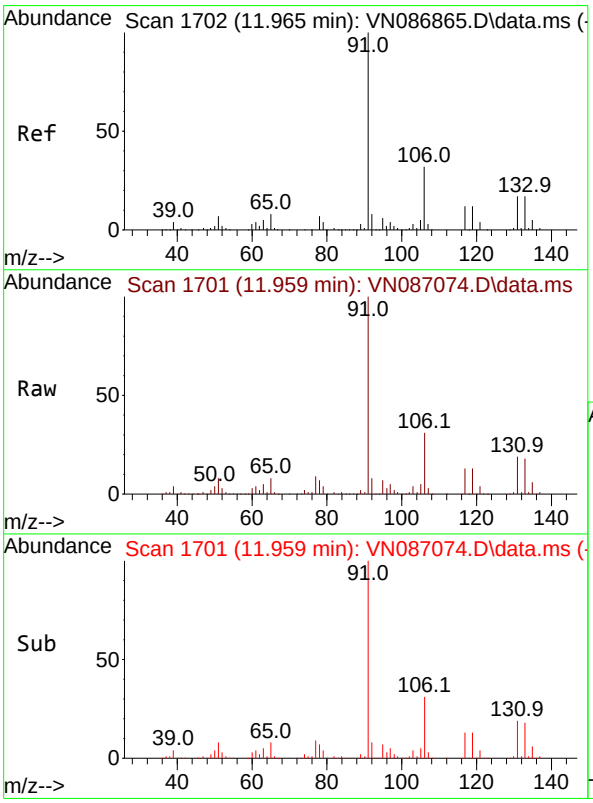
#65
Chlorobenzene
Concen: 51.632 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 375806

Ion	Ratio	Lower	Upper
112	100		
114	32.8	26.2	39.2

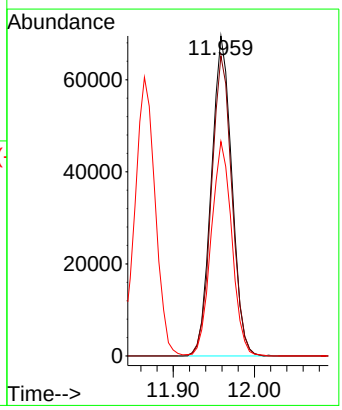


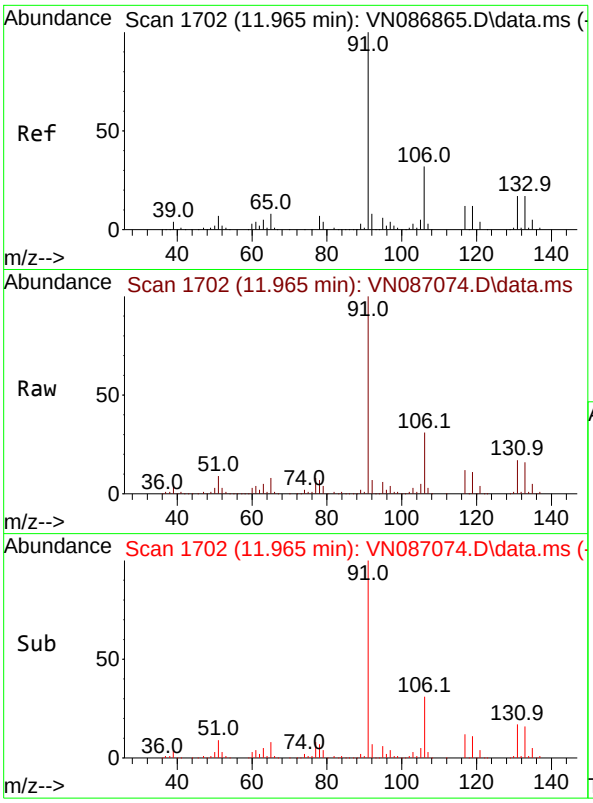


#66
1,1,1,2-Tetrachloroethane
Concen: 52.079 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:131 Resp: 121849

Ion	Ratio	Lower	Upper
131	100		
133	93.9	48.3	144.8
119	67.8	34.0	101.8



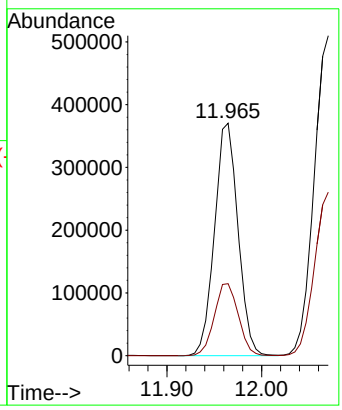


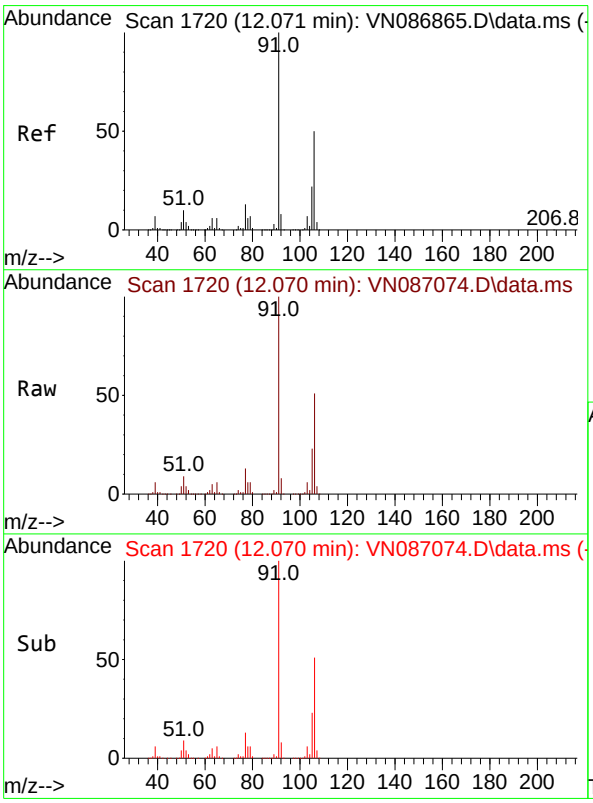
#67
Ethyl Benzene
Concen: 50.882 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 637921

Ion	Ratio	Lower	Upper
91	100		
106	31.0	25.4	38.2

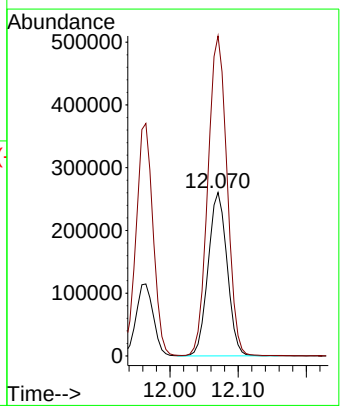


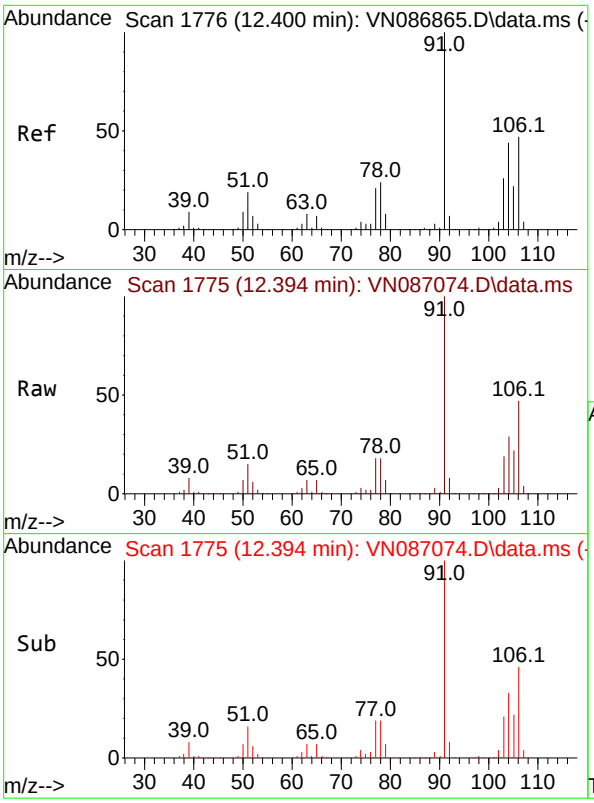


#68
m/p-Xylenes
Concen: 105.015 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:106 Resp: 503996

Ion	Ratio	Lower	Upper
106	100		
91	197.2	159.4	239.0



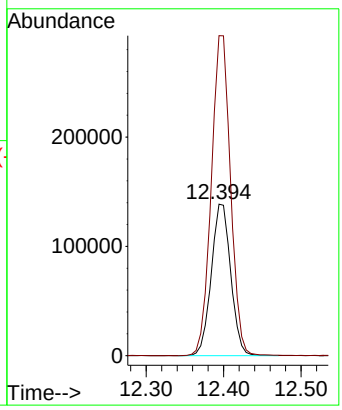


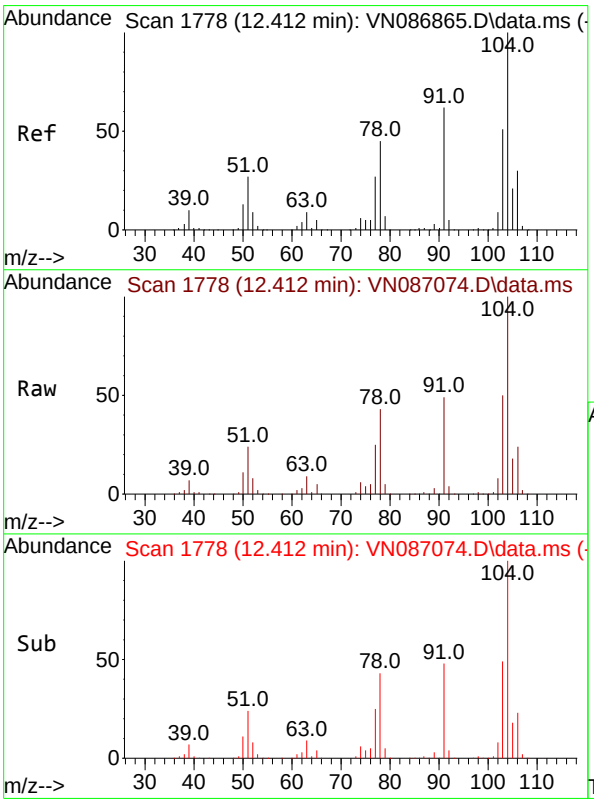
#69
o-Xylene
Concen: 52.589 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 241725

Ion	Ratio	Lower	Upper
106	100		
91	209.4	106.1	318.1

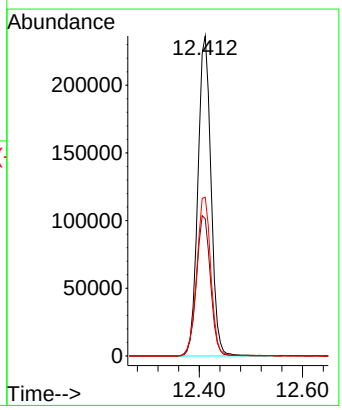


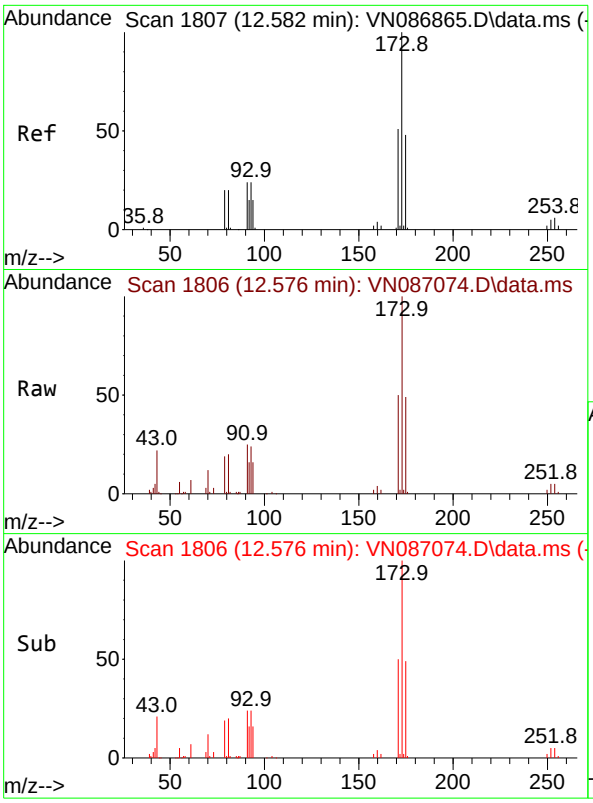


#70
Styrene
Concen: 52.934 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:104 Resp: 416344

Ion	Ratio	Lower	Upper
104	100		
78	47.1	38.5	57.7
103	53.2	43.1	64.7



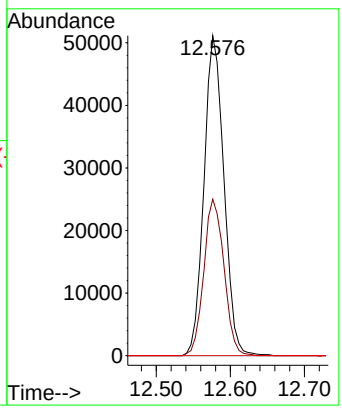


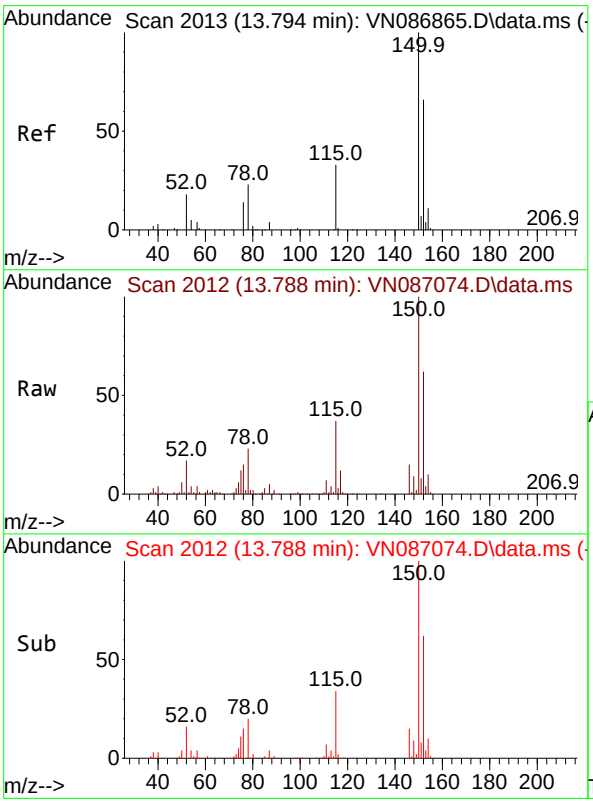
#71
Bromoform
Concen: 55.217 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 95724

Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.1	72.4
254	0.0	0.0	0.0

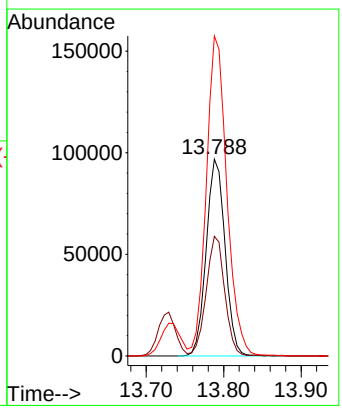


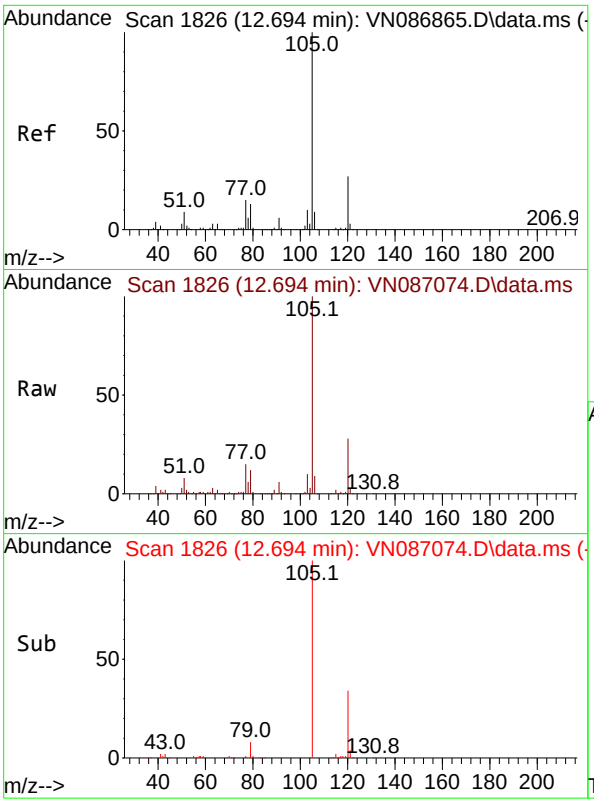


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:152 Resp: 164001

Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.1	90.5
150	177.1	0.0	345.0



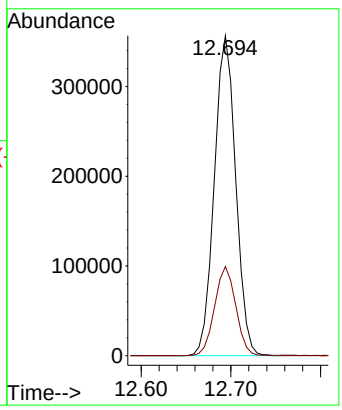


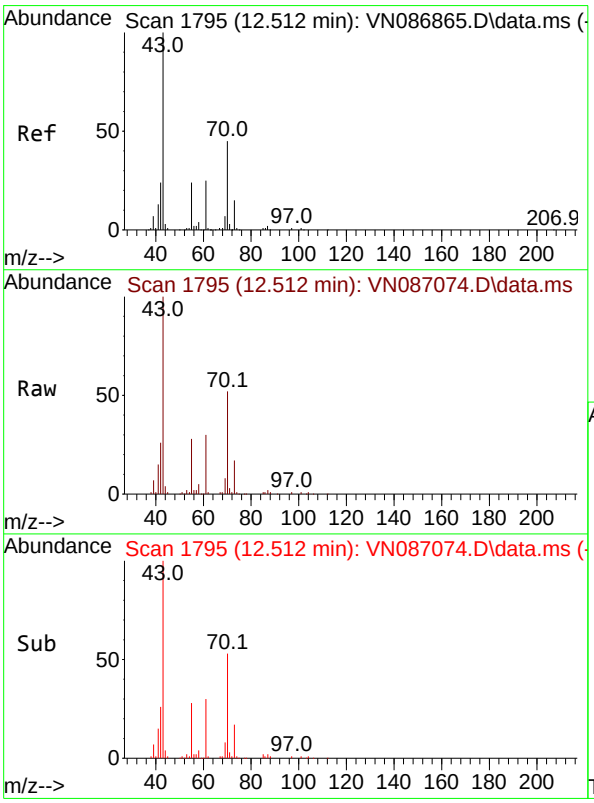
#73
Isopropylbenzene
Concen: 49.378 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 589954

Ion	Ratio	Lower	Upper
105	100		
120	27.5	13.5	40.4

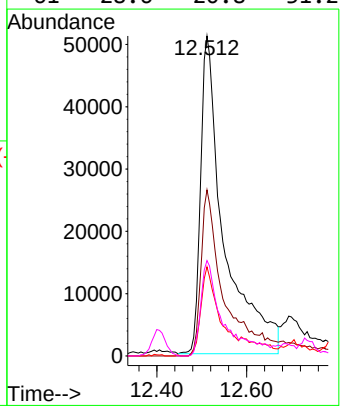


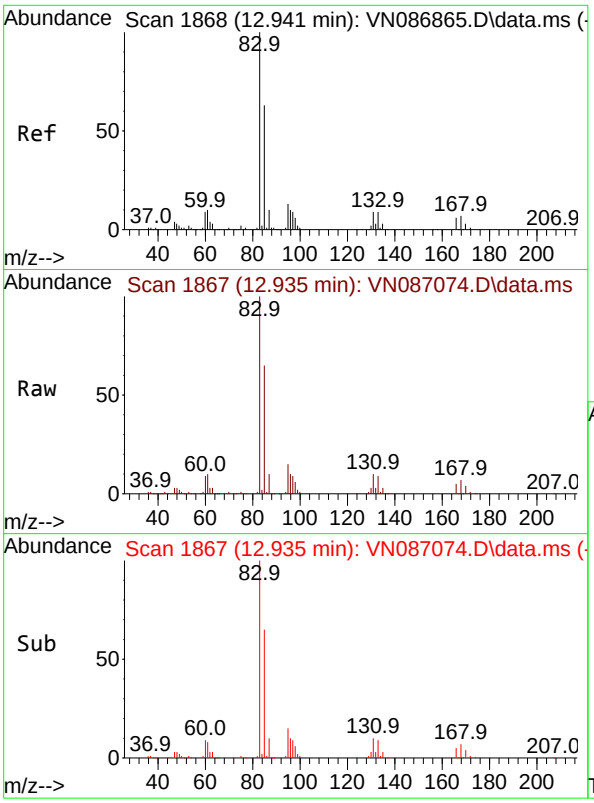


#74
N-amyl acetate
Concen: 44.506 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 43 Resp: 185811

Ion	Ratio	Lower	Upper
43	100		
70	51.4	37.6	56.4
55	21.8	19.0	28.6
61	28.6	20.8	31.2



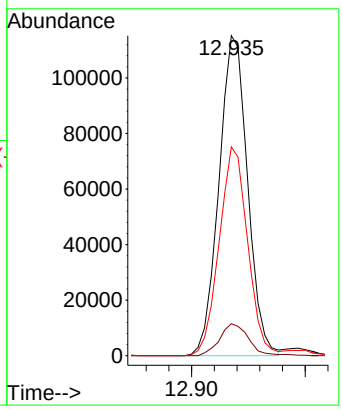


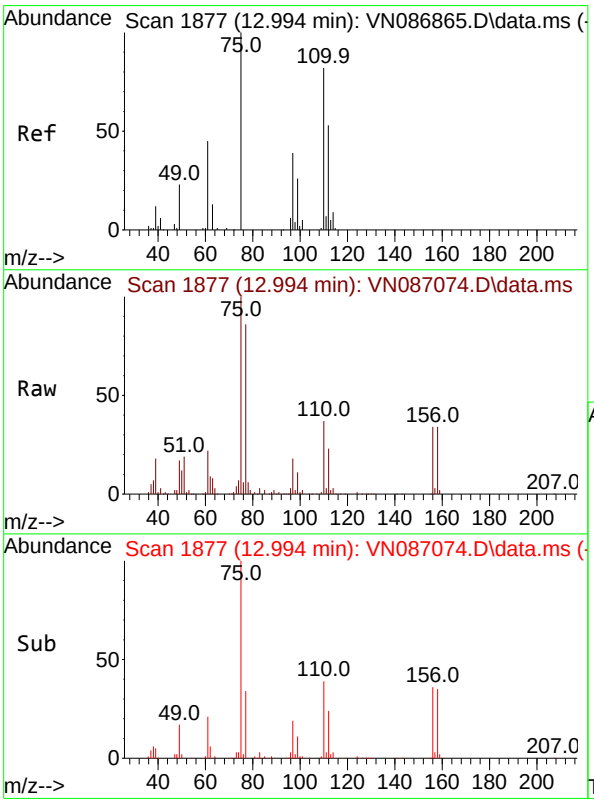
#75
1,1,2,2-Tetrachloroethane
Concen: 49.861 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 201817

Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.9	14.7
85	65.1	32.0	96.0

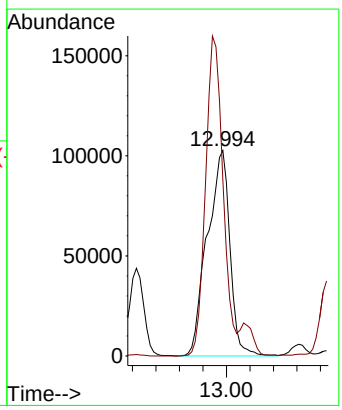


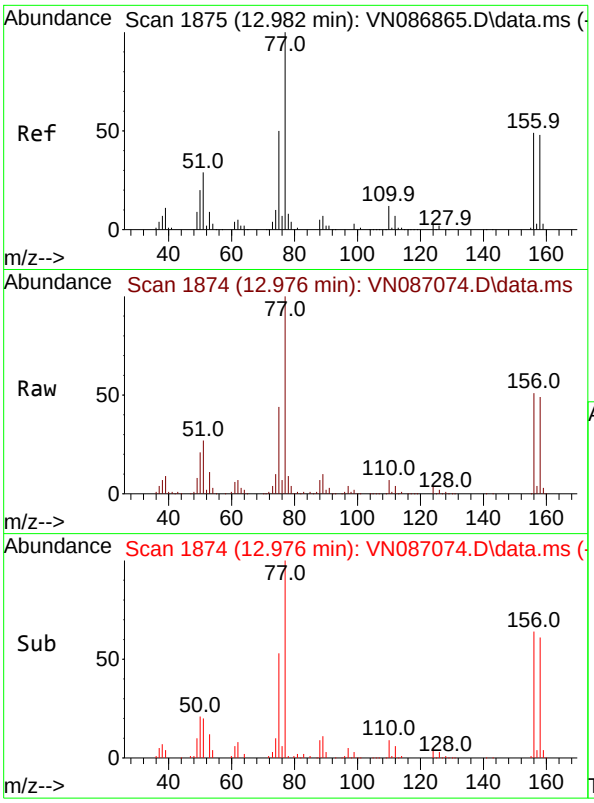


#76
1,2,3-Trichloropropane
Concen: 70.332 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 75 Resp: 274180

Ion	Ratio	Lower	Upper
75	100		
77	120.0	79.3	237.9



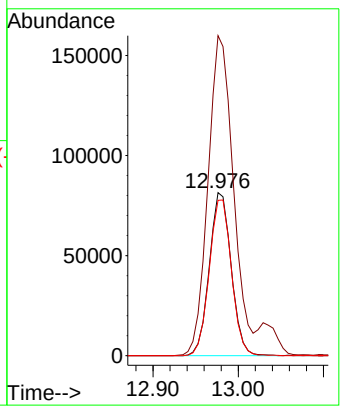


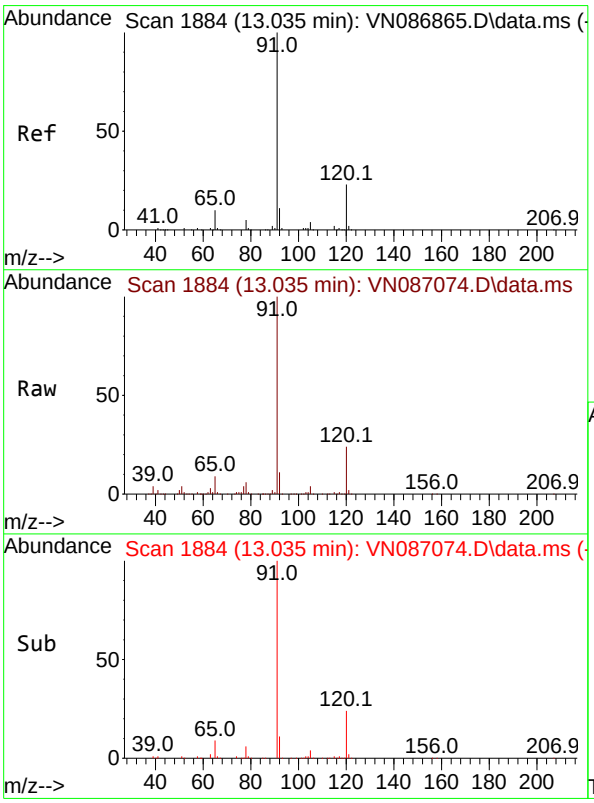
#77
Bromobenzene
Concen: 52.988 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 145188

Ion	Ratio	Lower	Upper
156	100		
77	226.6	117.7	353.1
158	97.1	48.1	144.4

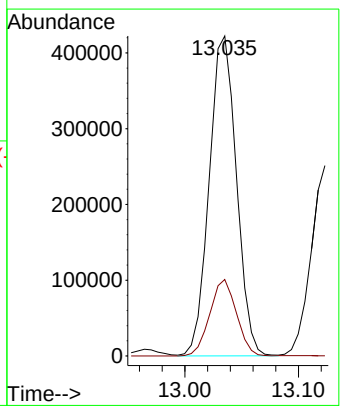


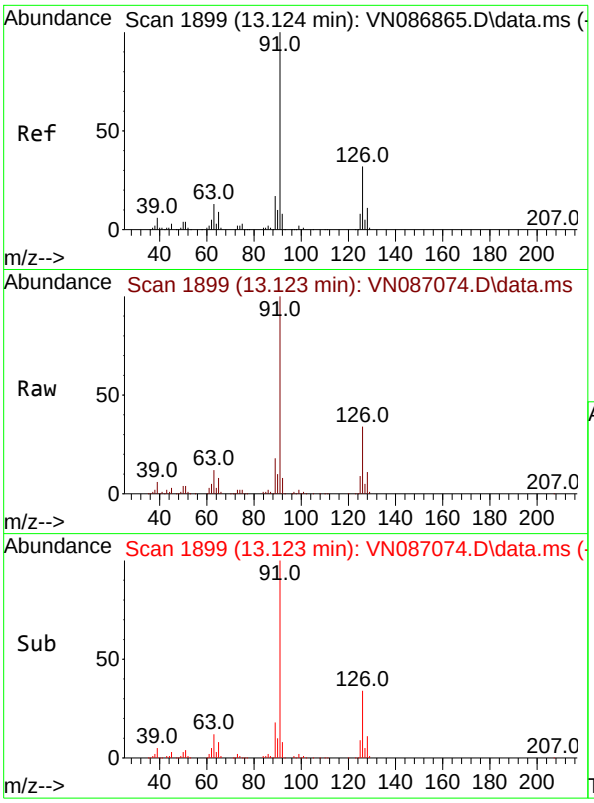


#78
n-propylbenzene
Concen: 48.505 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 91 Resp: 704268

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.4	34.2



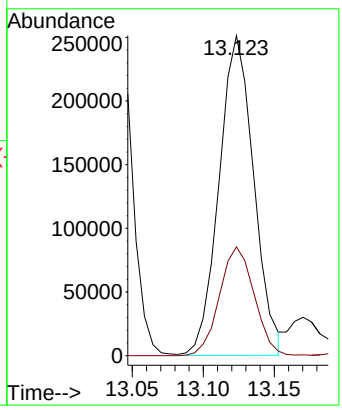


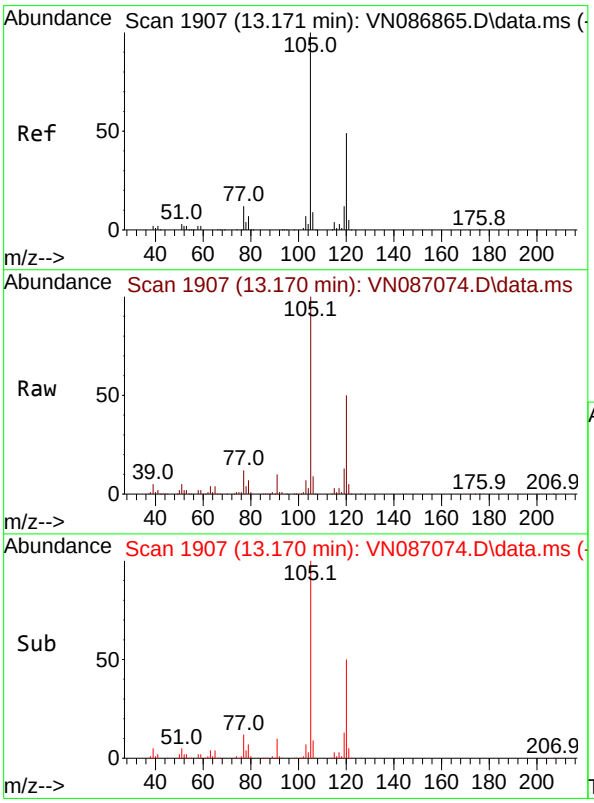
#79
2-Chlorotoluene
Concen: 49.053 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 427130

Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.2	48.5

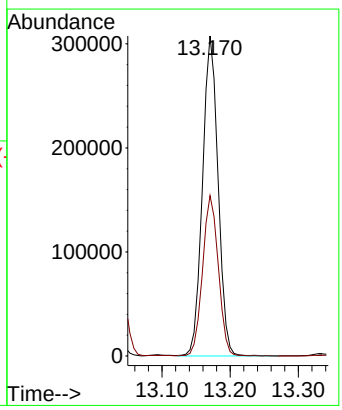


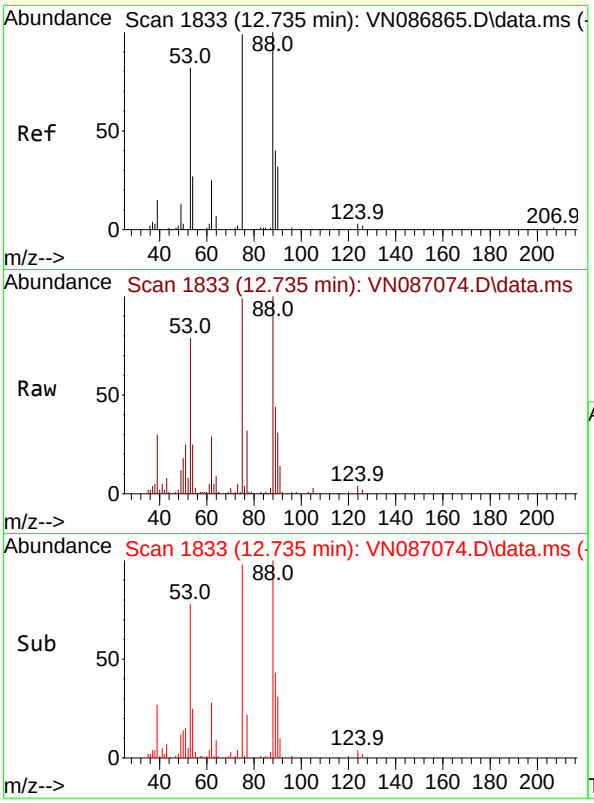


#80
1,3,5-Trimethylbenzene
Concen: 49.603 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:105 Resp: 489295

Ion	Ratio	Lower	Upper
105	100		
120	50.5	24.9	74.6



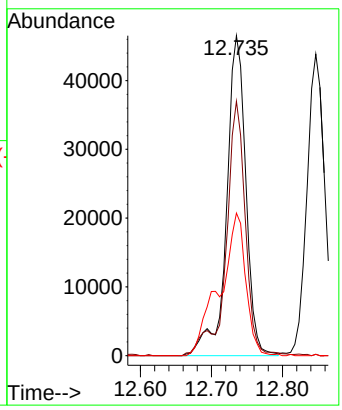


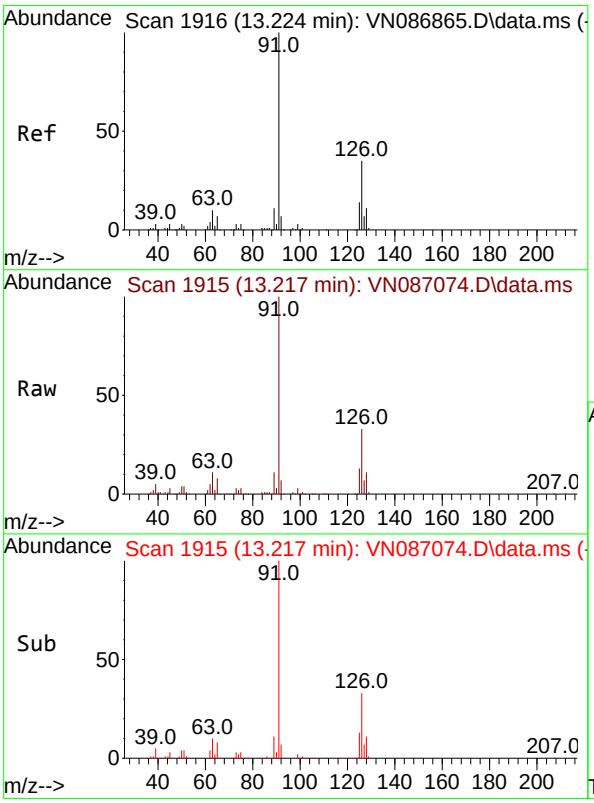
#81
trans-1,4-Dichloro-2-butene
Concen: 51.911 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 87912

Ion	Ratio	Lower	Upper
75	100		
53	72.3	66.6	99.8
89	60.2	36.7	55.1#

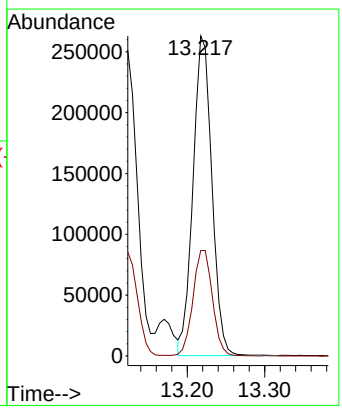


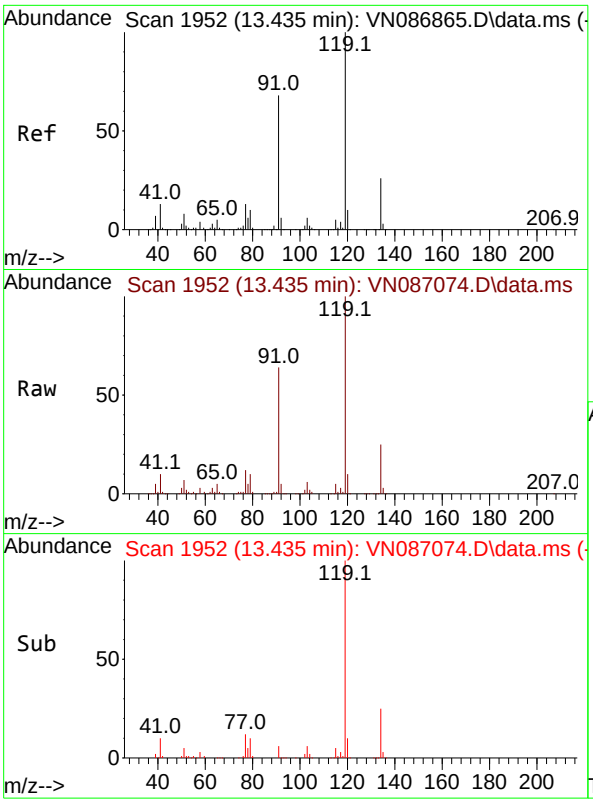


#82
4-Chlorotoluene
Concen: 50.317 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 91 Resp: 443322

Ion	Ratio	Lower	Upper
91	100		
126	34.3	16.7	50.1



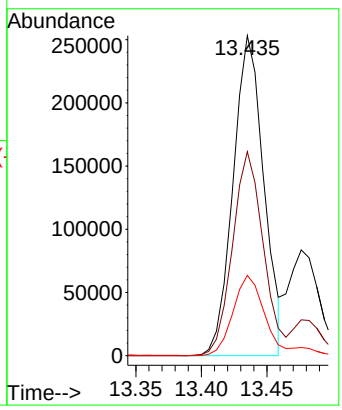


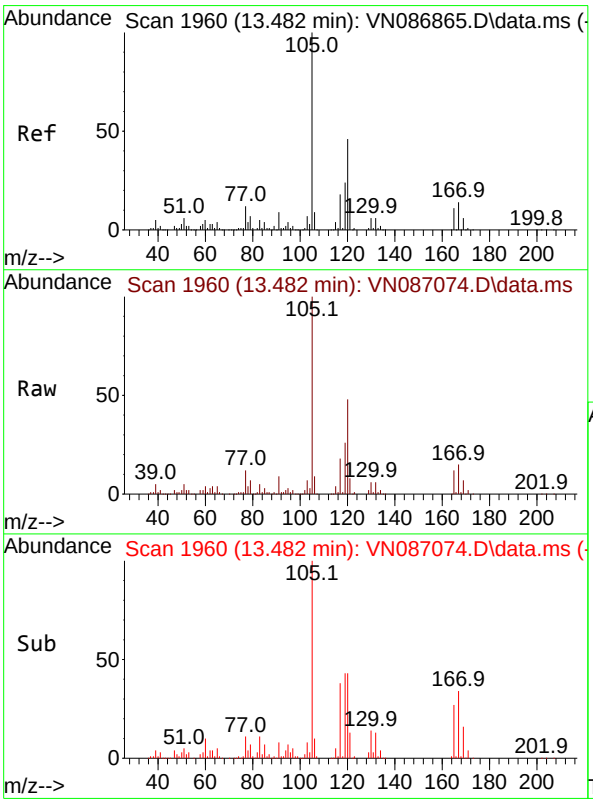
#83
tert-Butylbenzene
Concen: 45.624 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 411961

Ion	Ratio	Lower	Upper
119	100		
91	64.2	32.1	96.5
134	27.4	13.4	40.1

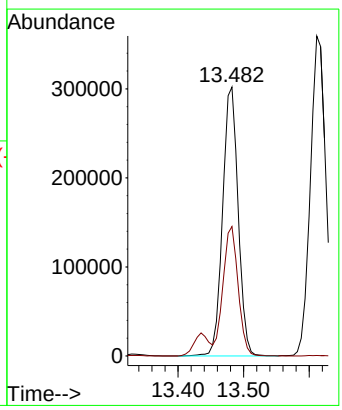


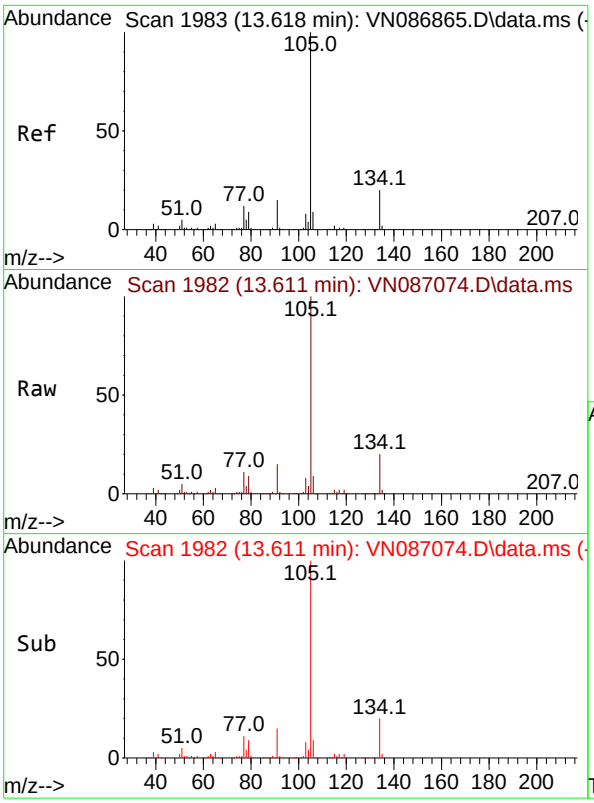


#84
1,2,4-Trimethylbenzene
Concen: 50.084 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:105 Resp: 495408

Ion	Ratio	Lower	Upper
105	100		
120	46.9	23.2	69.6



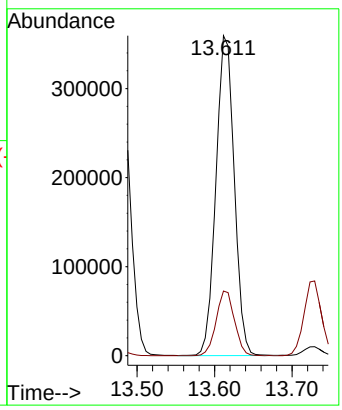


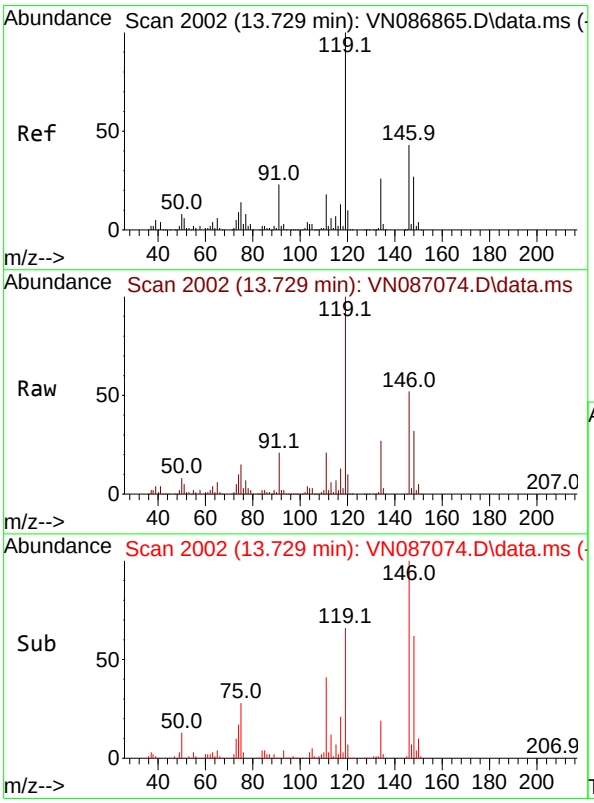
#85
sec-Butylbenzene
Concen: 45.019 ug/l
RT: 13.611 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 590317

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0

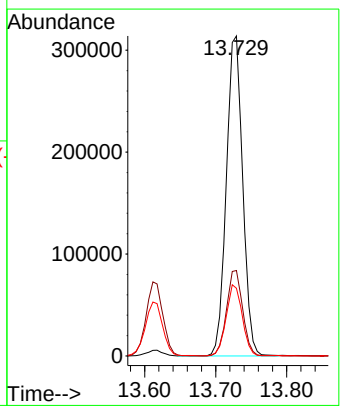


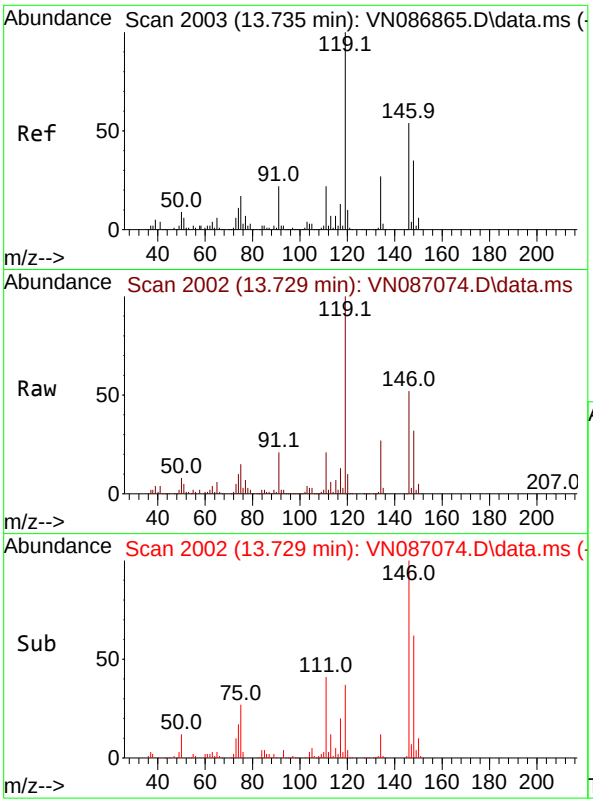


#86
p-Isopropyltoluene
Concen: 46.356 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:119 Resp: 502465

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.5	40.4
91	21.8	11.5	34.4



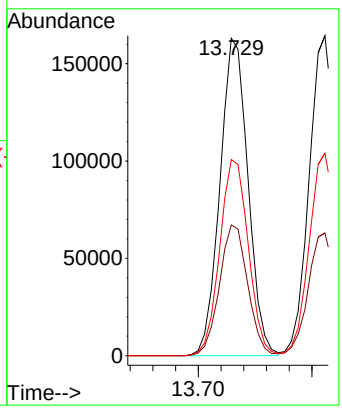


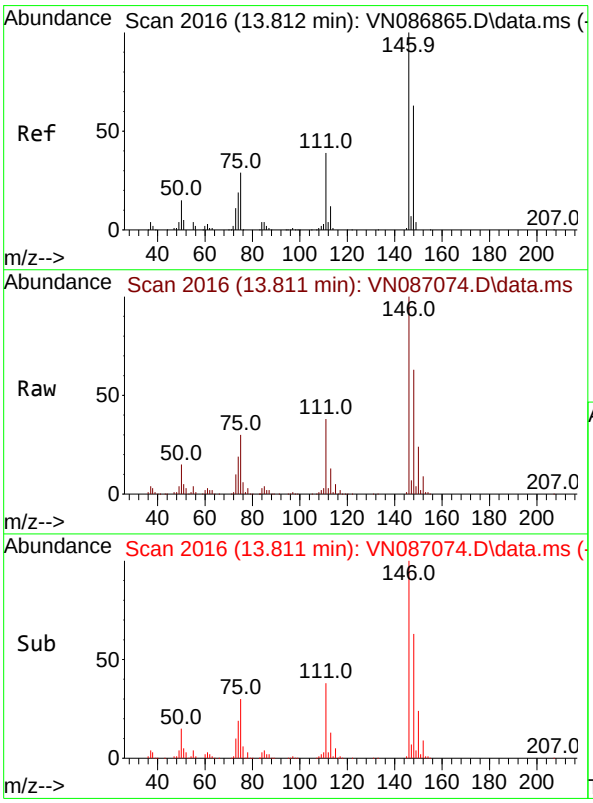
#87
1,3-Dichlorobenzene
Concen: 51.871 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 279631

Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.9	62.8
148	62.9	32.0	96.2

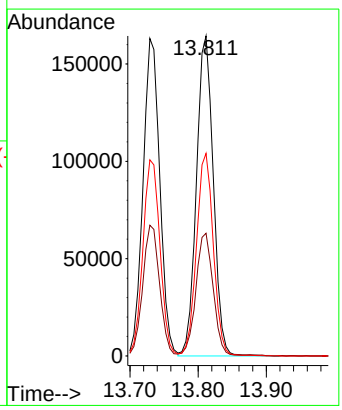


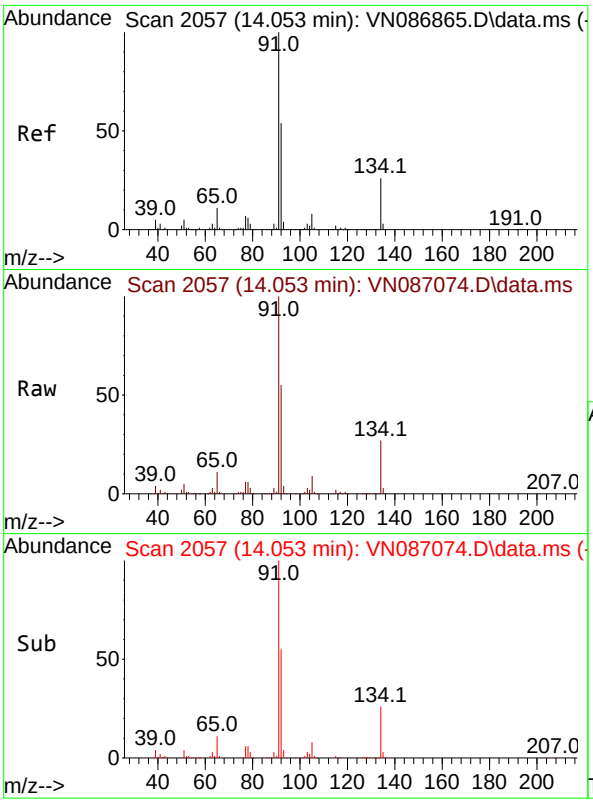


#88
1,4-Dichlorobenzene
Concen: 51.398 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:146 Resp: 282492

Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.9	59.7
148	63.4	31.8	95.4



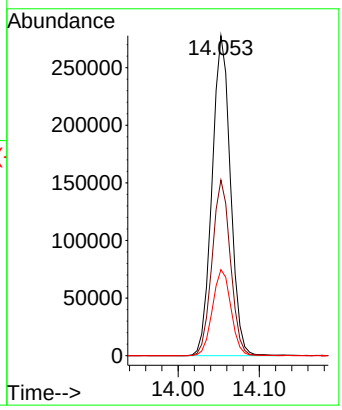


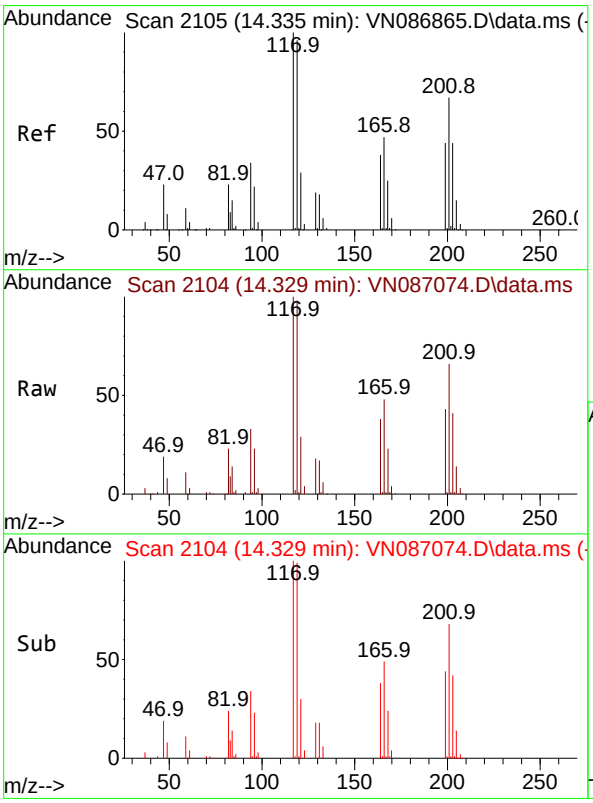
#89
n-Butylbenzene
Concen: 41.655 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 437343

Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.5	82.4
134	27.1	13.0	39.0

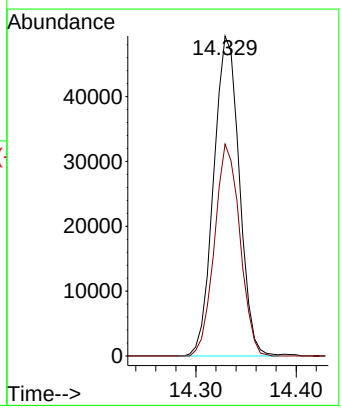


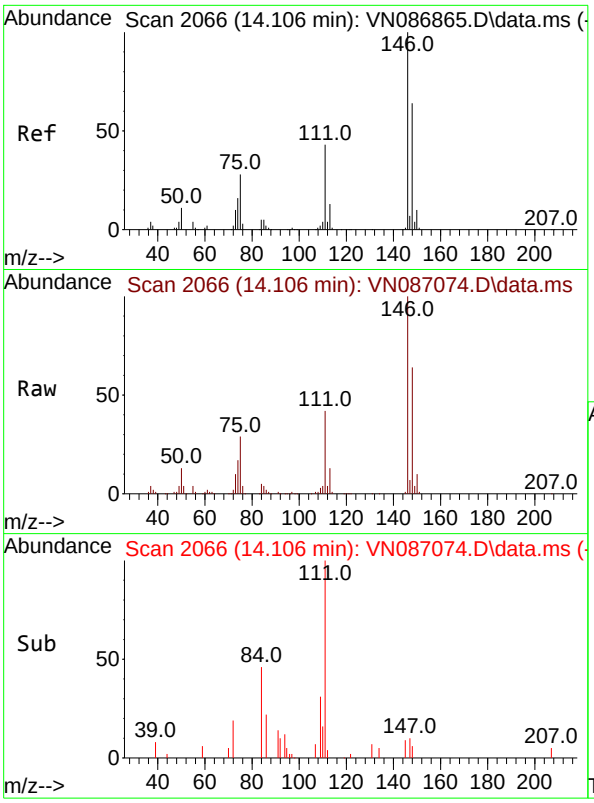


#90
Hexachloroethane
Concen: 47.628 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:117 Resp: 87508

Ion	Ratio	Lower	Upper
117	100		
201	65.5	33.2	99.6



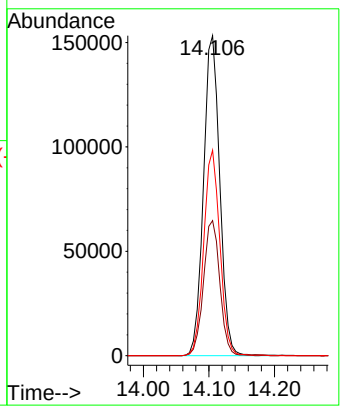


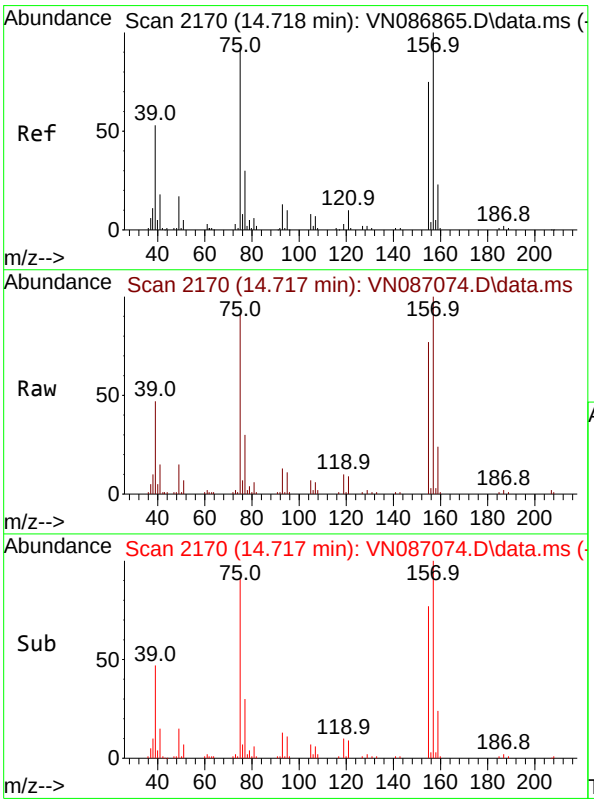
#91
1,2-Dichlorobenzene
Concen: 51.121 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 264771

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.6	64.6
148	63.5	31.7	95.1

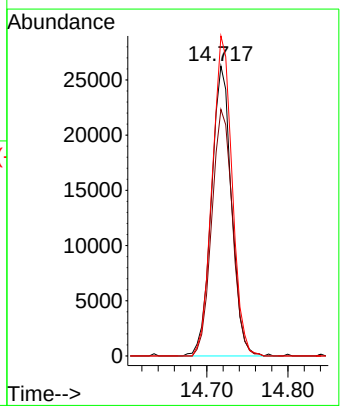


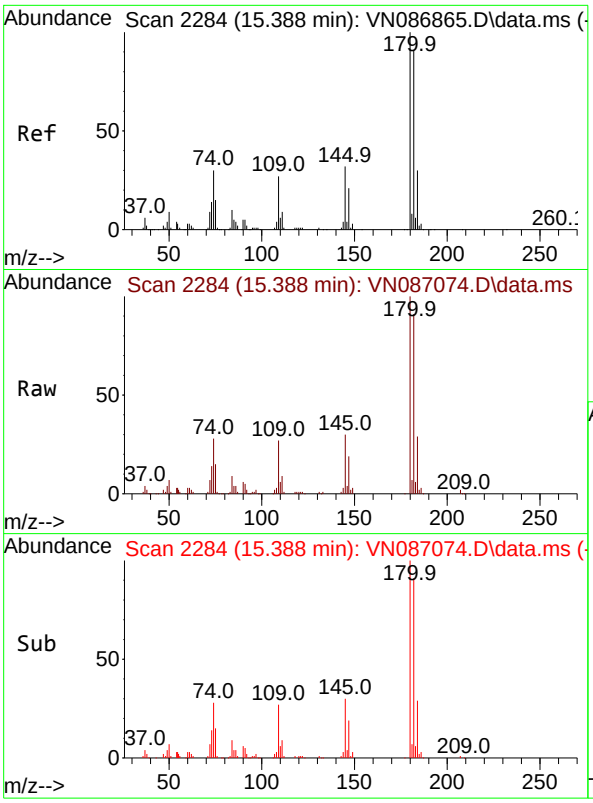


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.814 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion: 75 Resp: 45316

Ion	Ratio	Lower	Upper
75	100		
155	86.9	41.1	123.4
157	109.2	52.7	158.1



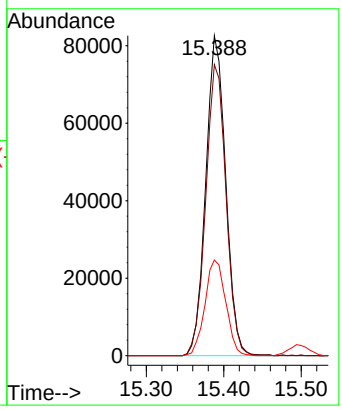


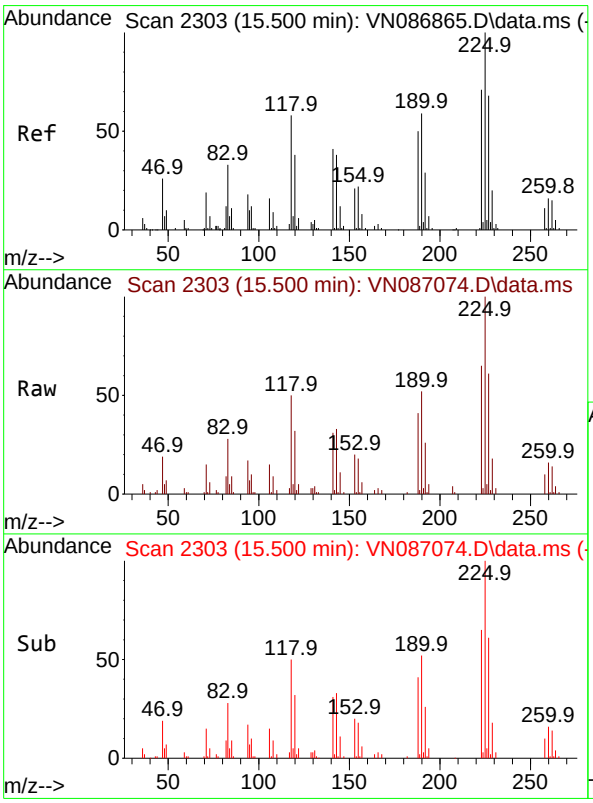
#93
1,2,4-Trichlorobenzene
Concen: 44.615 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 147553

Ion	Ratio	Lower	Upper
180	100		
182	92.6	46.9	140.7
145	31.2	16.0	47.9

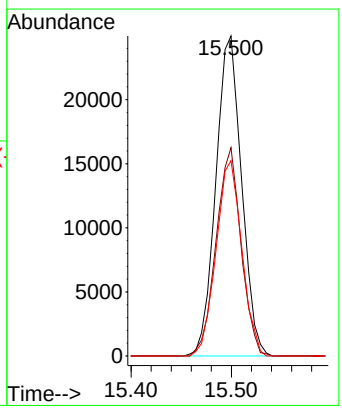


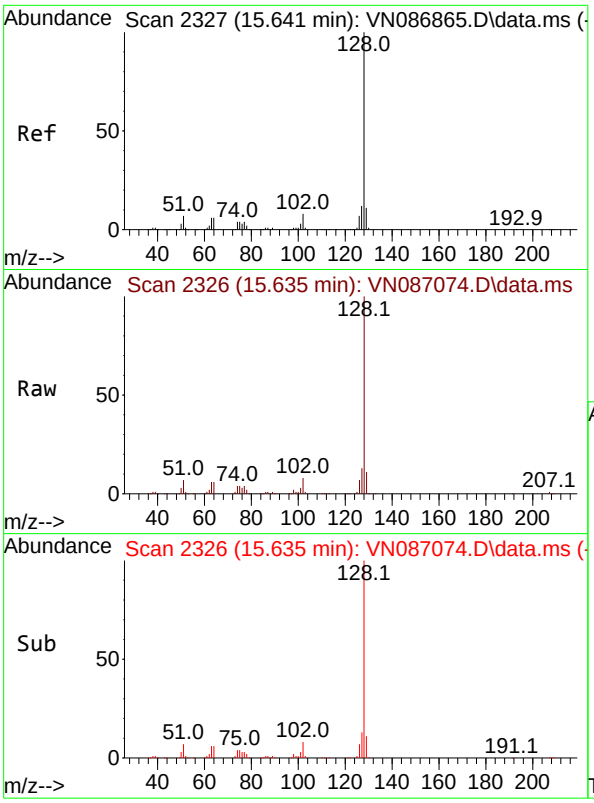


#94
Hexachlorobutadiene
Concen: 36.072 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:225 Resp: 44448

Ion	Ratio	Lower	Upper
225	100		
223	62.9	33.5	100.4
227	61.0	31.1	93.5



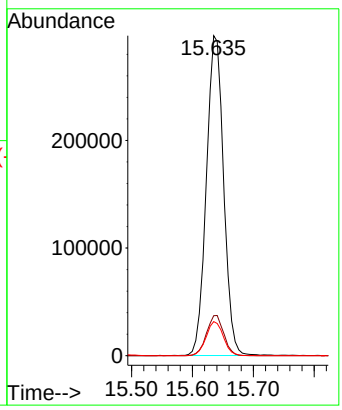


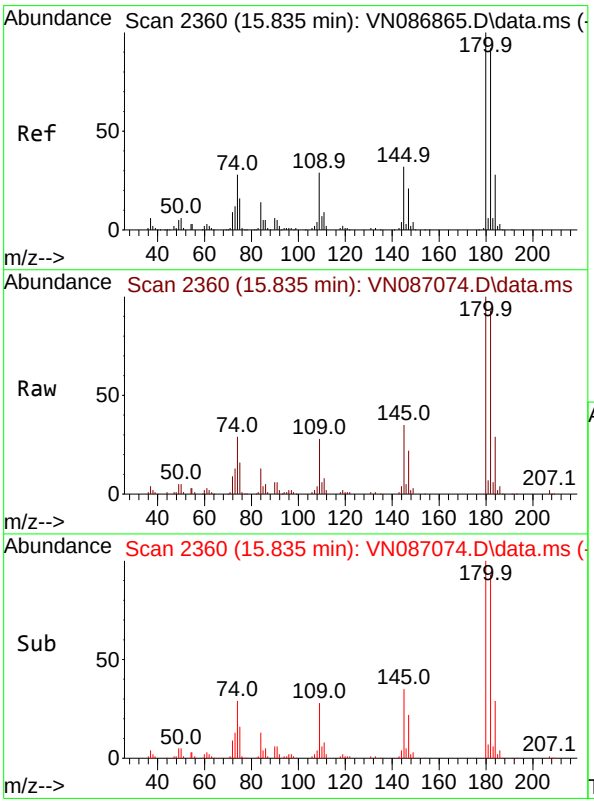
#95
Naphthalene
Concen: 47.478 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 584462

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	10.7	8.8	13.2

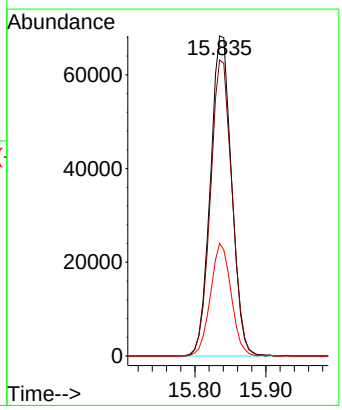




#96
1,2,3-Trichlorobenzene
Concen: 43.093 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087074.D
Acq: 18 Jun 2025 10:21

Tgt Ion:180 Resp: 141602

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.0	141.0
145	34.2	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087077.D
Acq On : 18 Jun 2025 12:07
Operator : JC\MD
Sample : VN0618WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Quant Time: Jun 19 01:24:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	213664	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	379722	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	333122	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	167760	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	138039	48.253	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.500%			
35) Dibromofluoromethane	8.177	113	119246	52.991	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.980%			
50) Toluene-d8	10.565	98	443603	49.796	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.600%			
62) 4-Bromofluorobenzene	12.847	95	166905	50.428	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.860%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	41847	19.643	ug/l	97
3) Chloromethane	2.395	50	46566	16.927	ug/l	100
4) Vinyl Chloride	2.553	62	57713	20.337	ug/l	93
5) Bromomethane	3.001	94	29472	18.559	ug/l	94
6) Chloroethane	3.159	64	37444	20.427	ug/l	98
7) Trichlorofluoromethane	3.530	101	75345	20.321	ug/l	98
8) Diethyl Ether	3.989	74	31110	19.258	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.406	101	45613	19.581	ug/l	99
10) Methyl Iodide	4.612	142	28628	9.481	ug/l	96
11) Tert butyl alcohol	5.536	59	67795	87.339	ug/l	99
12) 1,1-Dichloroethene	4.371	96	47748	20.078	ug/l	94
13) Acrolein	4.206	56	13456	54.765	ug/l	98
14) Allyl chloride	5.053	41	68843	17.455	ug/l	95
15) Acrylonitrile	5.736	53	165705	91.332	ug/l	99
16) Acetone	4.447	43	125781	82.911	ug/l	95
17) Carbon Disulfide	4.736	76	135478	20.595	ug/l	100
18) Methyl Acetate	5.053	43	68403	15.472	ug/l	97
19) Methyl tert-butyl Ether	5.812	73	160700	18.663	ug/l	99
20) Methylene Chloride	5.300	84	53901	18.978	ug/l	97
21) trans-1,2-Dichloroethene	5.812	96	50387	19.044	ug/l	96
22) Diisopropyl ether	6.689	45	150595	18.114	ug/l	98
23) Vinyl Acetate	6.618	43	654255	93.144	ug/l	98
24) 1,1-Dichloroethane	6.589	63	91217	19.066	ug/l	98
25) 2-Butanone	7.494	43	210395	85.320	ug/l	92
26) 2,2-Dichloropropane	7.500	77	78044	20.970	ug/l	98
27) cis-1,2-Dichloroethene	7.500	96	60950	19.262	ug/l	98
28) Bromochloromethane	7.818	49	40126	17.058	ug/l	91
29) Tetrahydrofuran	7.847	42	139346	86.745	ug/l	95
30) Chloroform	7.977	83	90256	18.890	ug/l	99
31) Cyclohexane	8.265	56	82406	17.761	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	77358	19.036	ug/l	97
36) 1,1-Dichloropropene	8.377	75	66753	19.907	ug/l	98
37) Ethyl Acetate	7.571	43	76370	17.891	ug/l	98
38) Carbon Tetrachloride	8.371	117	65790	19.984	ug/l	97
39) Methylcyclohexane	9.606	83	79083	17.214	ug/l	95
40) Benzene	8.612	78	218047	19.886	ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087077.D
Acq On : 18 Jun 2025 12:07
Operator : JC\MD
Sample : VN0618WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Quant Time: Jun 19 01:24:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.788	41	41526	17.322 ug/l	94
42) 1,2-Dichloroethane	8.677	62	63897	19.212 ug/l	99
43) Isopropyl Acetate	8.694	43	121654	17.757 ug/l	97
44) Trichloroethene	9.359	130	52194	20.074 ug/l	97
45) 1,2-Dichloropropane	9.624	63	52345	19.622 ug/l	98
46) Dibromomethane	9.712	93	36267	20.468 ug/l	99
47) Bromodichloromethane	9.888	83	70694	19.391 ug/l	98
48) Methyl methacrylate	9.682	41	54263	17.208 ug/l	95
49) 1,4-Dioxane	9.700	88	22022	383.882 ug/l #	98
51) 4-Methyl-2-Pentanone	10.447	43	375290	90.991 ug/l	98
52) Toluene	10.629	92	133714	19.954 ug/l	100
53) t-1,3-Dichloropropene	10.835	75	78148	19.170 ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	85848	19.682 ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	50818	19.709 ug/l	96
56) Ethyl methacrylate	10.882	69	78597	19.138 ug/l #	91
57) 1,3-Dichloropropane	11.165	76	86921	19.433 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	227303	92.795 ug/l	97
59) 2-Hexanone	11.206	43	222844	83.880 ug/l	91
60) Dibromochloromethane	11.359	129	54446	20.267 ug/l	99
61) 1,2-Dibromoethane	11.471	107	53326	20.177 ug/l	99
64) Tetrachloroethene	11.106	164	41643	19.753 ug/l	98
65) Chlorobenzene	11.894	112	147922	20.133 ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	47569	20.142 ug/l	99
67) Ethyl Benzene	11.965	91	242612	19.171 ug/l	99
68) m/p-Xylenes	12.071	106	192188	39.672 ug/l	99
69) o-Xylene	12.394	106	90763	19.562 ug/l	98
70) Styrene	12.412	104	156838	19.754 ug/l	100
71) Bromoform	12.576	173	36740	20.995 ug/l #	99
73) Isopropylbenzene	12.694	105	225091	18.418 ug/l	99
74) N-amyl acetate	12.535	43	41734	9.772 ug/l #	84
75) 1,1,2,2-Tetrachloroethane	12.935	83	81187	19.609 ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	107798	27.033 ug/l	70
77) Bromobenzene	12.976	156	55698	19.872 ug/l	98
78) n-propylbenzene	13.035	91	273130	18.390 ug/l	100
79) 2-Chlorotoluene	13.123	91	162268	18.218 ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	185876	18.421 ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	31478	18.171 ug/l	97
82) 4-Chlorotoluene	13.217	91	171133	18.988 ug/l	99
83) tert-Butylbenzene	13.435	119	157194	17.019 ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	188377	18.618 ug/l	100
85) sec-Butylbenzene	13.612	105	228942	17.068 ug/l	99
86) p-Isopropyltoluene	13.729	119	192435	17.356 ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	106339	19.284 ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	111040	19.750 ug/l	99
89) n-Butylbenzene	14.053	91	170611	15.886 ug/l	99
90) Hexachloroethane	14.329	117	33657	17.908 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	102566	19.360 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	17659	17.834 ug/l	97
93) 1,2,4-Trichlorobenzene	15.388	180	56770	16.781 ug/l	99
94) Hexachlorobutadiene	15.500	225	18108	14.367 ug/l	99
95) Naphthalene	15.635	128	217923	17.306 ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	54686	16.270 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087077.D
Acq On : 18 Jun 2025 12:07
Operator : JC\MD
Sample : VN0618WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Quant Time: Jun 19 01:24:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

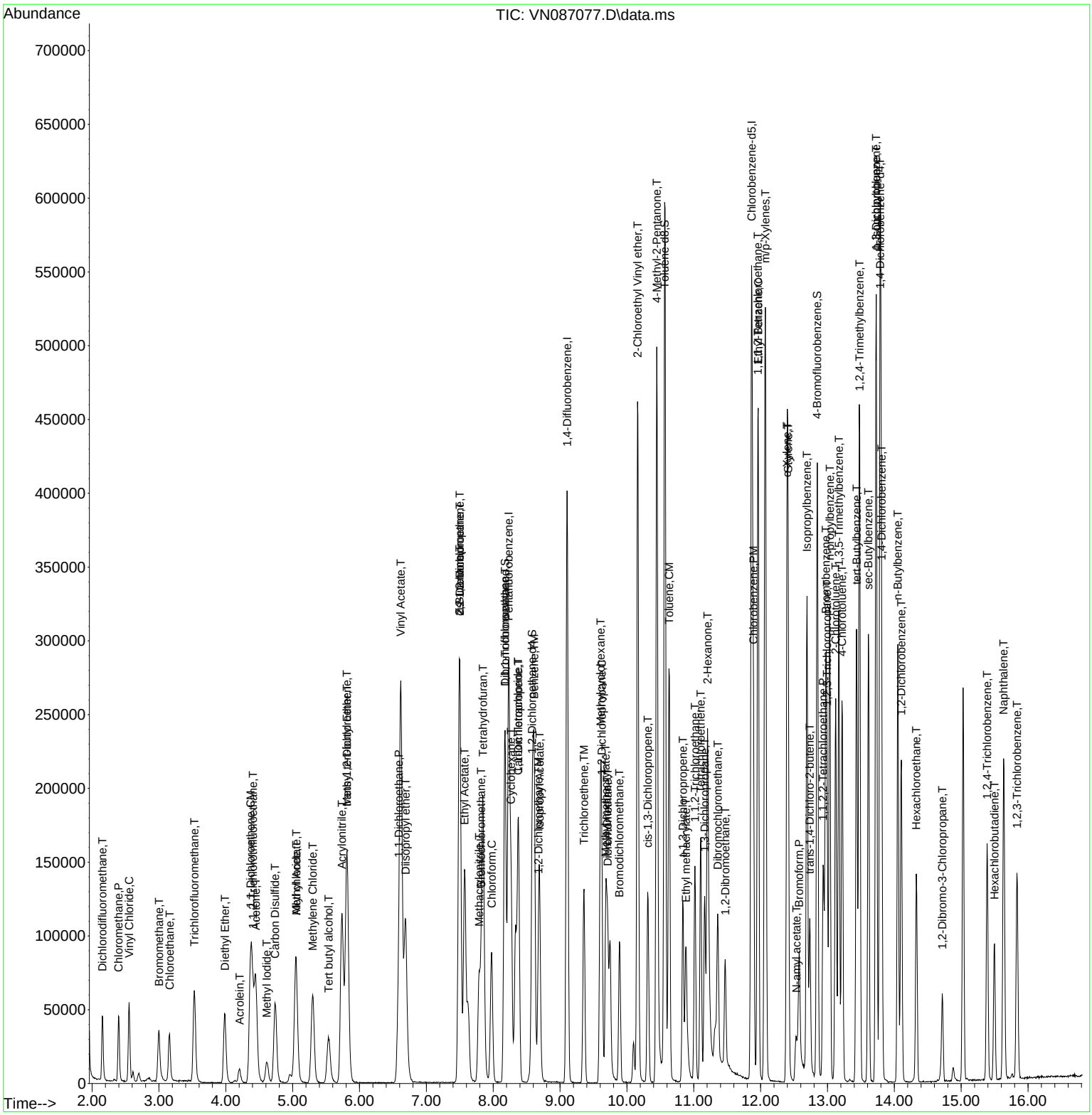
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

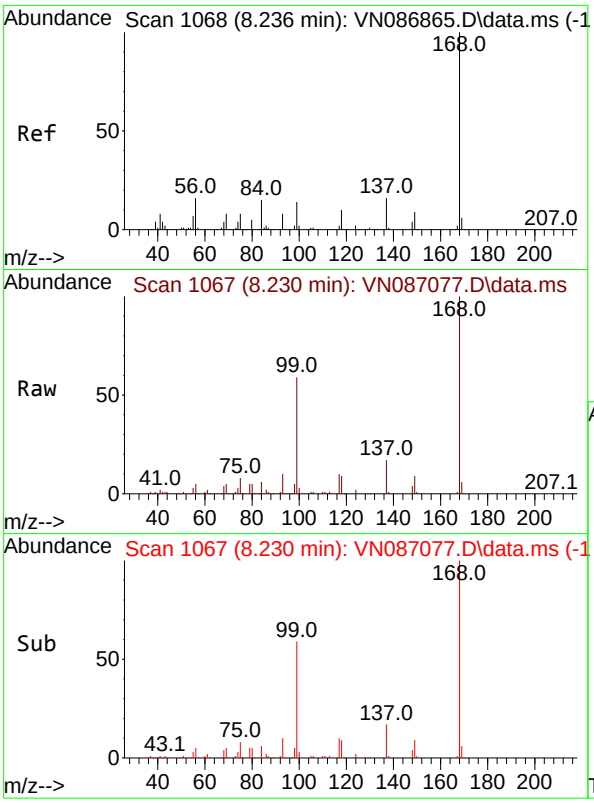
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087077.D
Acq On : 18 Jun 2025 12:07
Operator : JC\MD
Sample : VN0618WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Quant Time: Jun 19 01:24:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



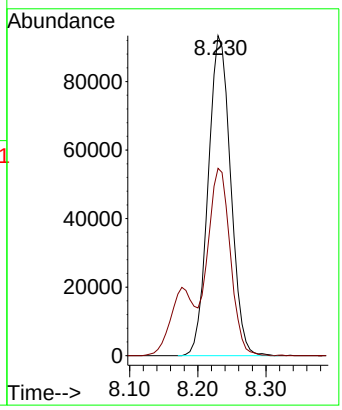


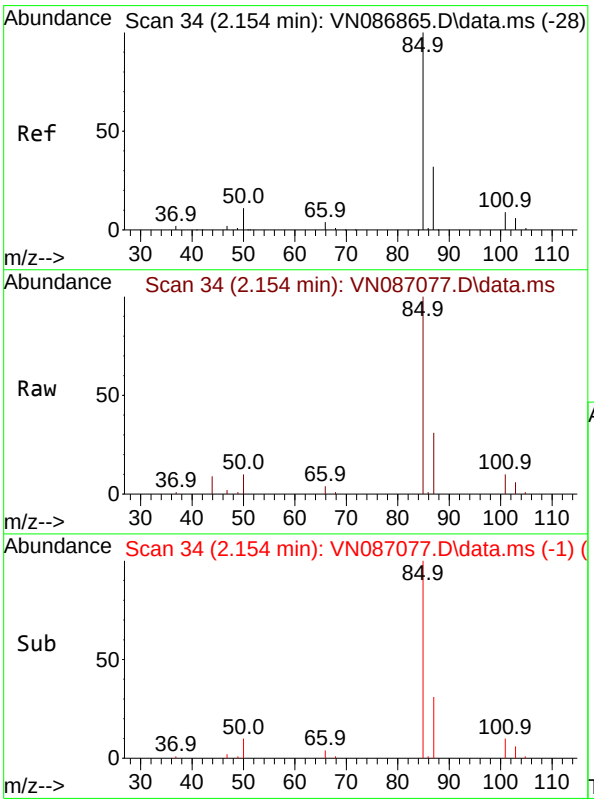
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:168 Resp: 213664

Ion	Ratio	Lower	Upper
168	100		
99	58.4	49.1	73.7

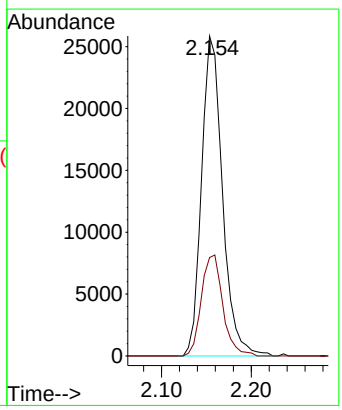


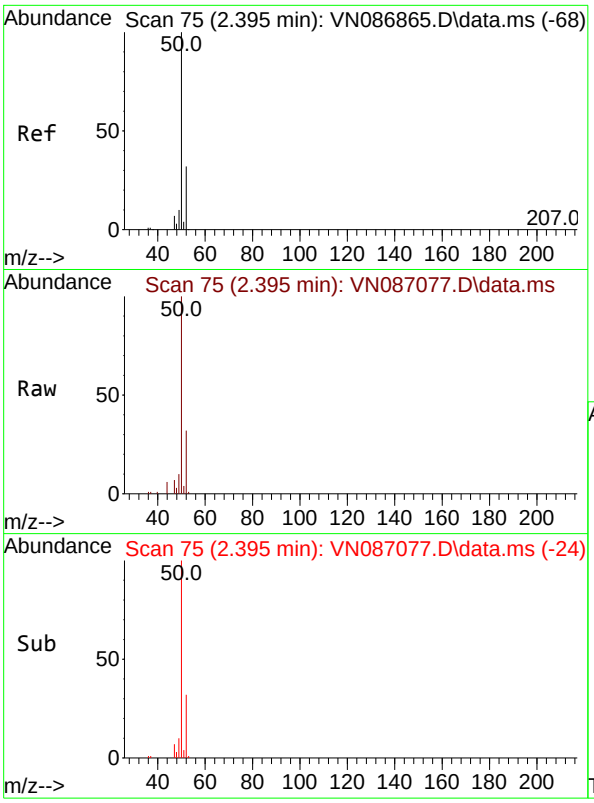


#2
Dichlorodifluoromethane
Concen: 19.643 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 85 Resp: 41847

Ion	Ratio	Lower	Upper
85	100		
87	30.7	16.2	48.6



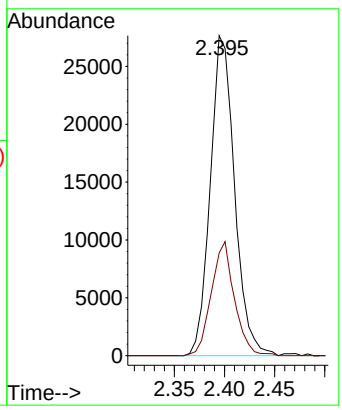


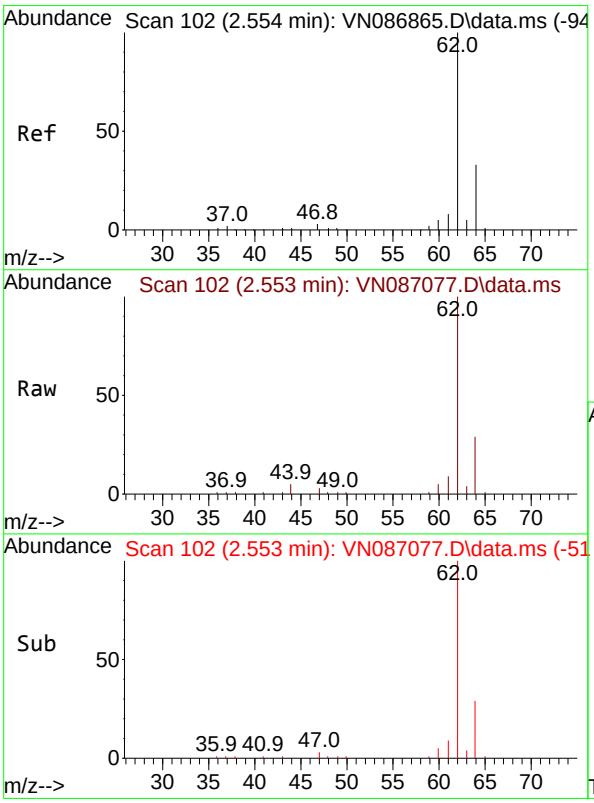
#3
Chloromethane
Concen: 16.927 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 50 Resp: 46566

Ion	Ratio	Lower	Upper
50	100		
52	32.1	25.7	38.5

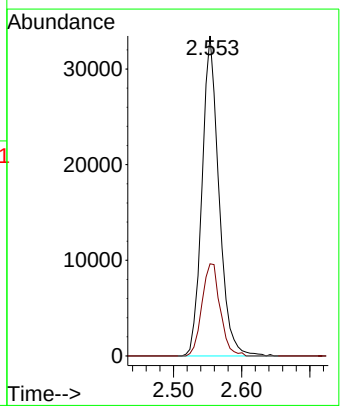


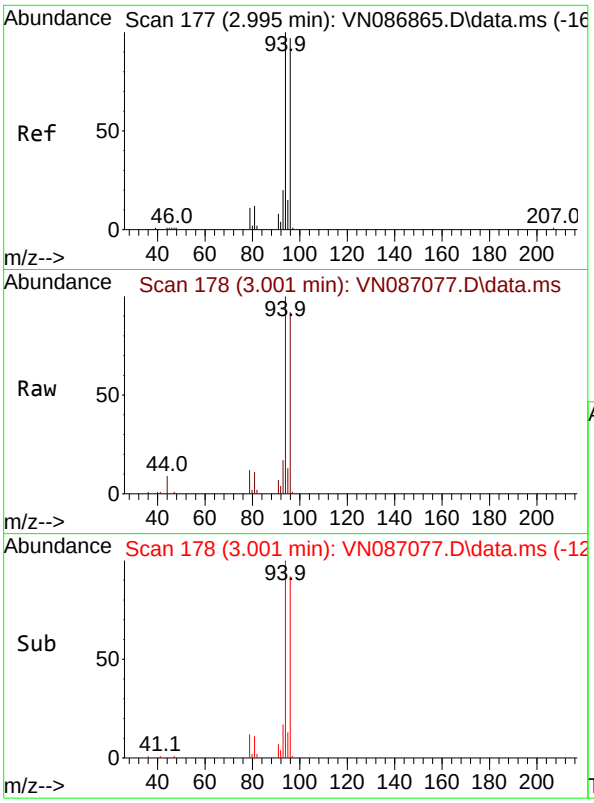


#4
Vinyl Chloride
Concen: 20.337 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 62 Resp: 57713

Ion	Ratio	Lower	Upper
62	100		
64	28.8	26.0	39.0



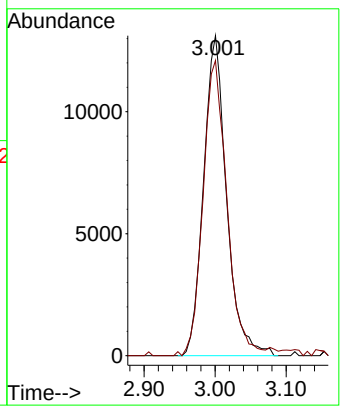


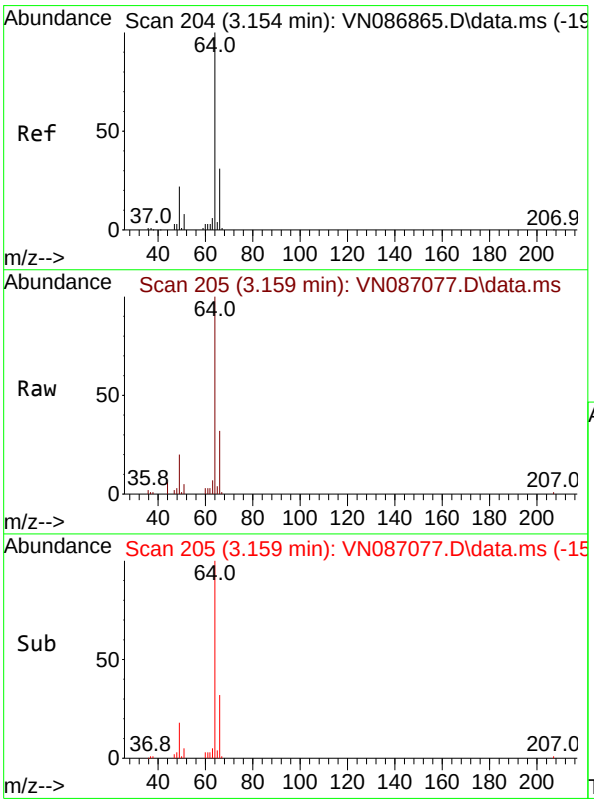
#5
Bromomethane
Concen: 18.559 ug/l
RT: 3.001 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 94 Resp: 29472

Ion	Ratio	Lower	Upper
94	100		
96	91.0	77.9	116.9

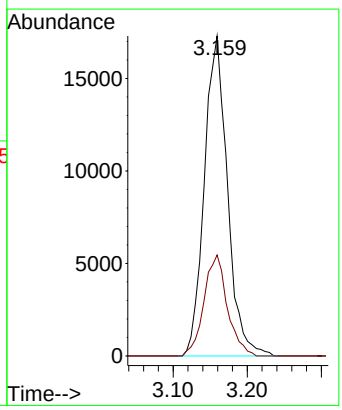


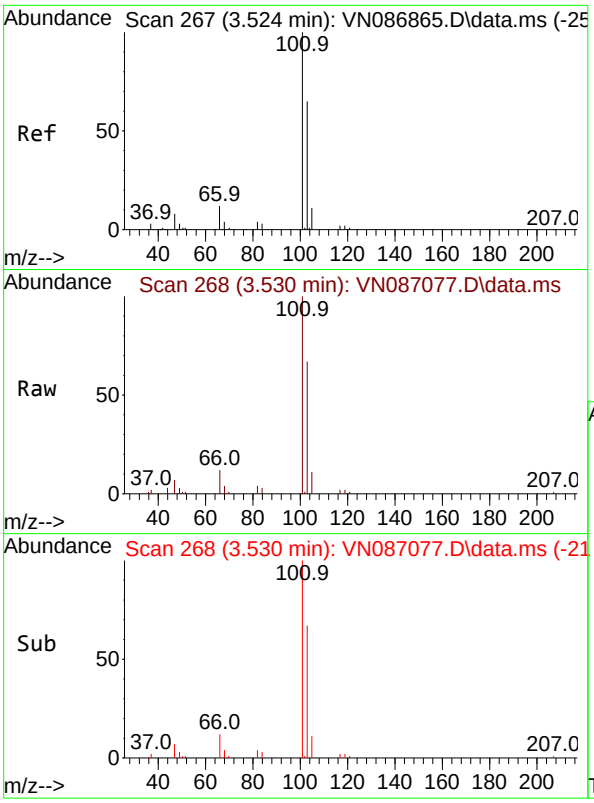


#6
Chloroethane
Concen: 20.427 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 64 Resp: 37444

Ion	Ratio	Lower	Upper
64	100		
66	31.5	24.6	36.8



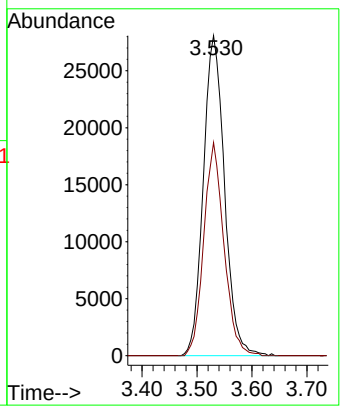


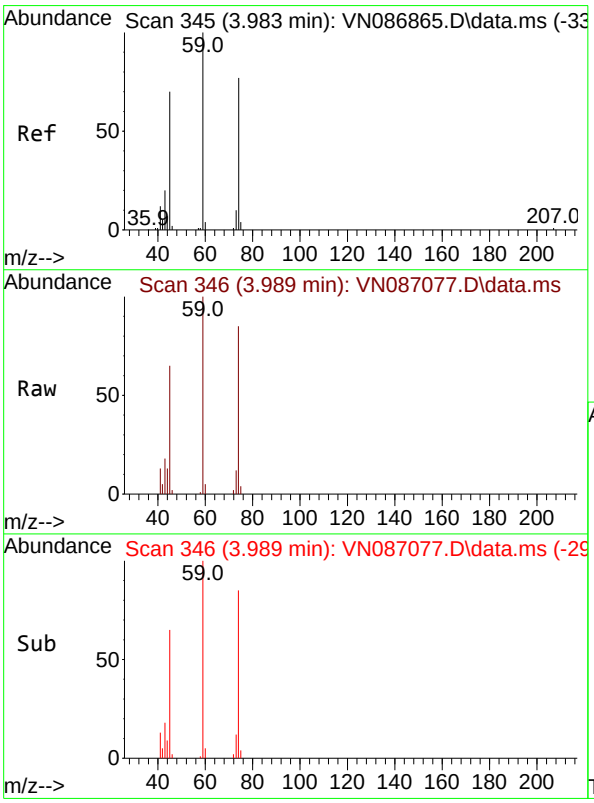
#7
Trichlorofluoromethane
Concen: 20.321 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:101 Resp: 75345

Ion	Ratio	Lower	Upper
101	100		
103	66.6	52.2	78.2

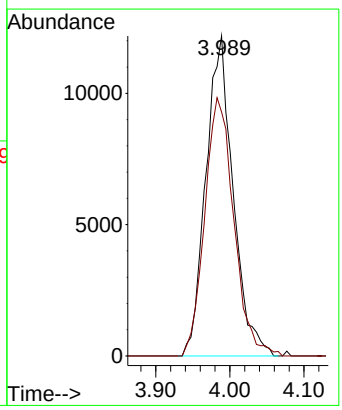


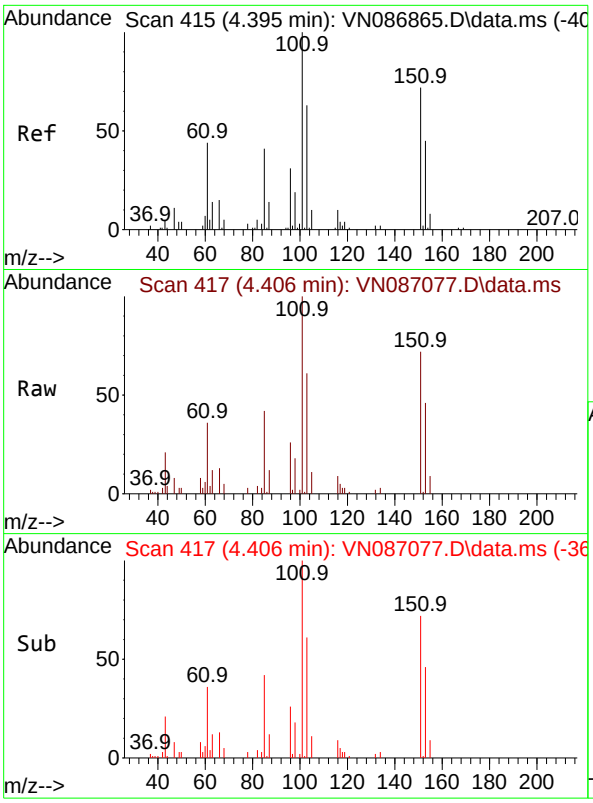


#8
Diethyl Ether
Concen: 19.258 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 74 Resp: 31110

Ion	Ratio	Lower	Upper
74	100		
45	86.3	45.5	136.5



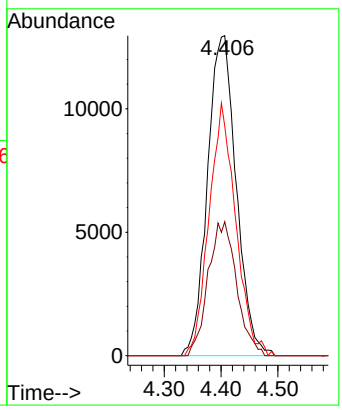


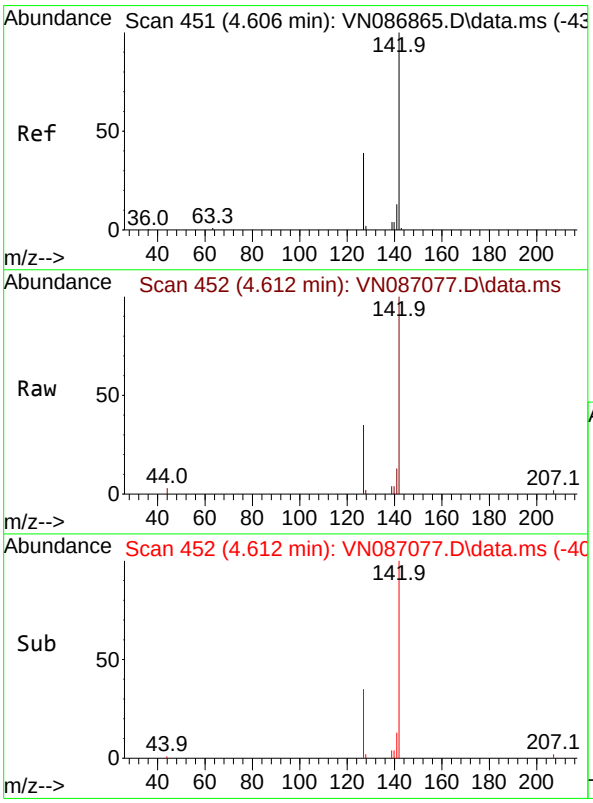
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.581 ug/l
RT: 4.406 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:101 Resp: 45613

Ion	Ratio	Lower	Upper
101	100		
85	41.4	33.8	50.8
151	73.2	58.7	88.1

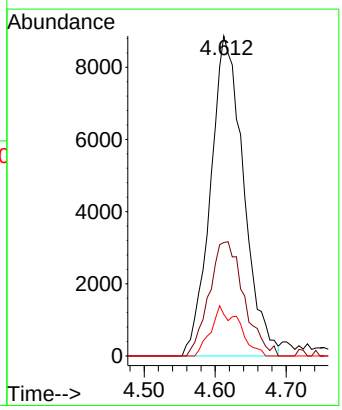


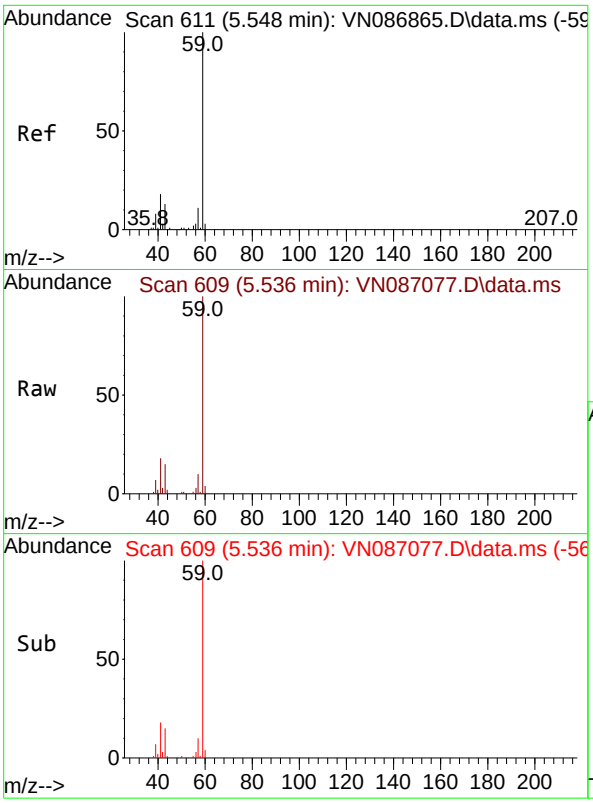


#10
Methyl Iodide
Concen: 9.481 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:142 Resp: 28628

Ion	Ratio	Lower	Upper
142	100		
127	35.5	30.9	46.3
141	13.0	10.4	15.6



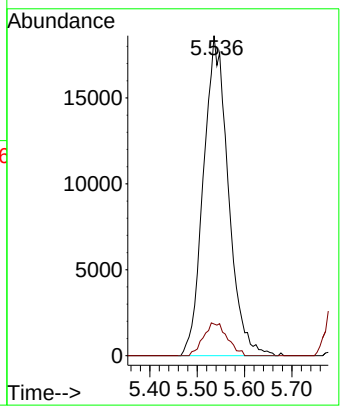


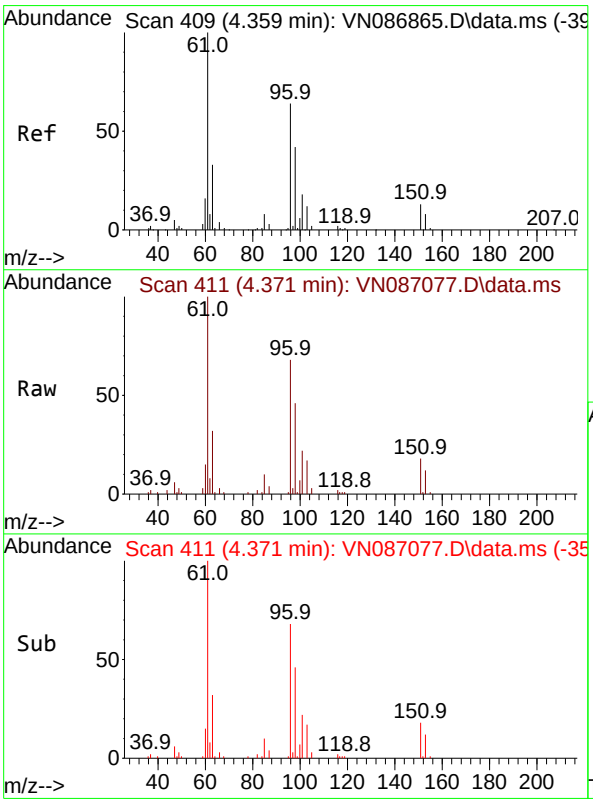
#11
Tert butyl alcohol
Concen: 87.339 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 59 Resp: 67795

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1

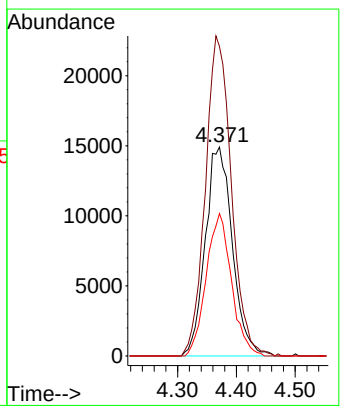


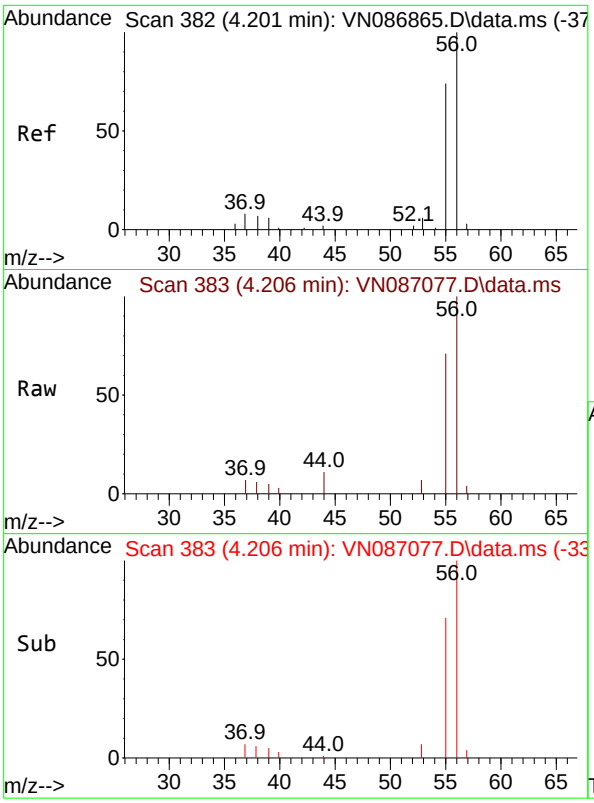


#12
1,1-Dichloroethene
Concen: 20.078 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 96 Resp: 47748

Ion	Ratio	Lower	Upper
96	100		
61	148.1	125.8	188.6
98	68.1	52.5	78.7



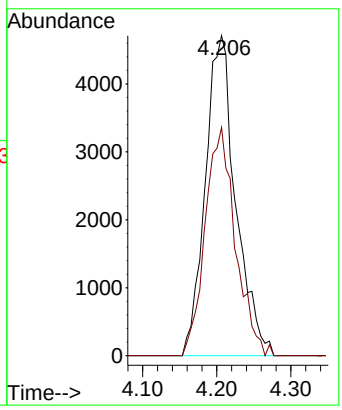


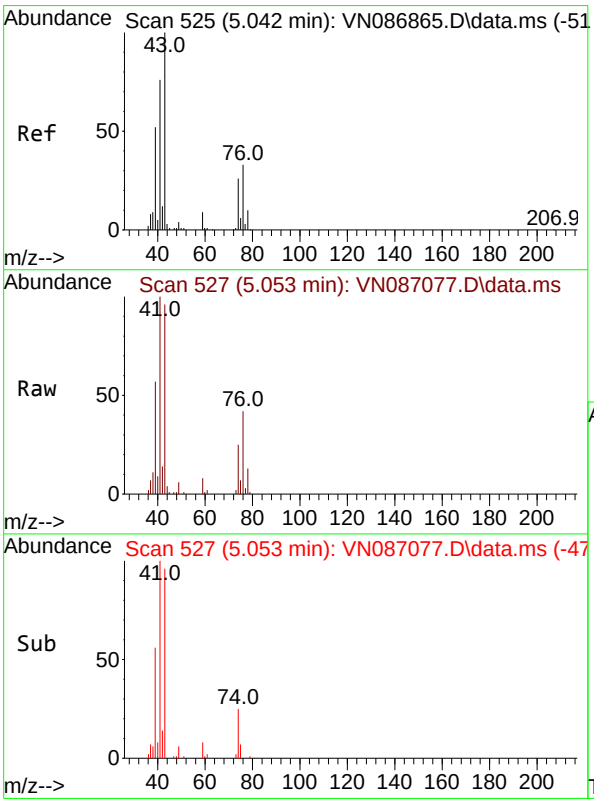
#13
Acrolein
Concen: 54.765 ug/l
RT: 4.206 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 56 Resp: 13456

Ion	Ratio	Lower	Upper
56	100		
55	70.8	55.6	83.4

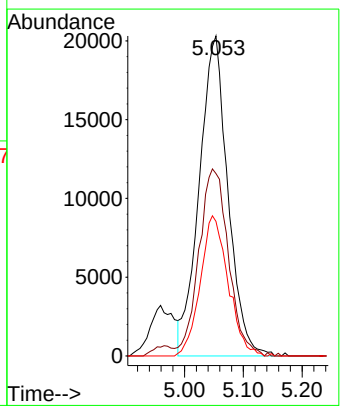


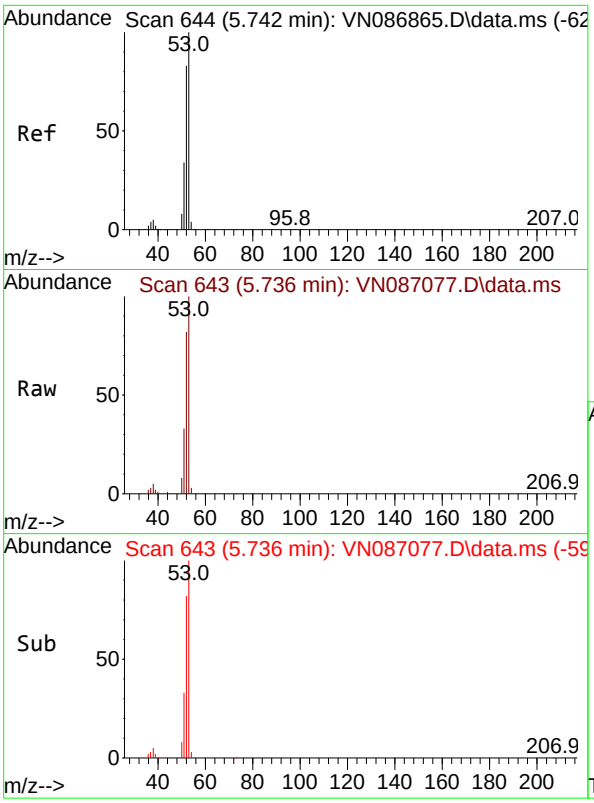


#14
Allyl chloride
Concen: 17.455 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.012 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 41 Resp: 68843

Ion	Ratio	Lower	Upper
41	100		
39	60.5	51.3	76.9
76	42.6	31.4	47.0



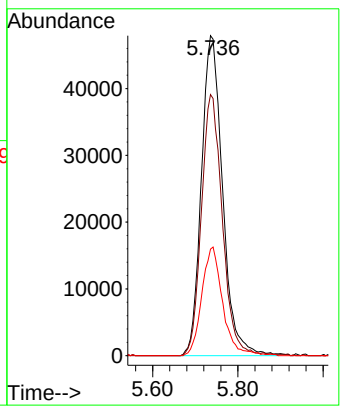


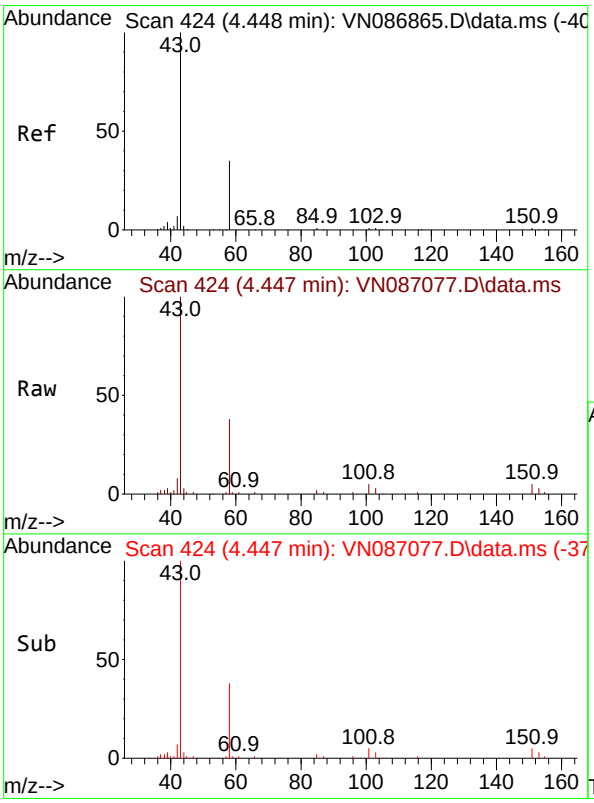
#15
Acrylonitrile
Concen: 91.332 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 53 Resp: 165705

Ion	Ratio	Lower	Upper
53	100		
52	80.3	65.0	97.6
51	33.6	27.2	40.8

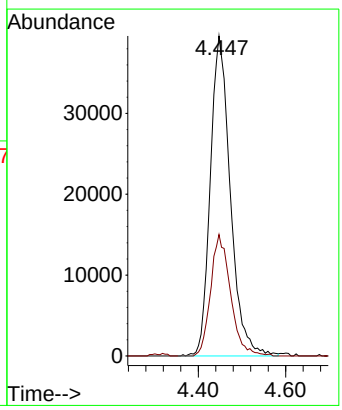


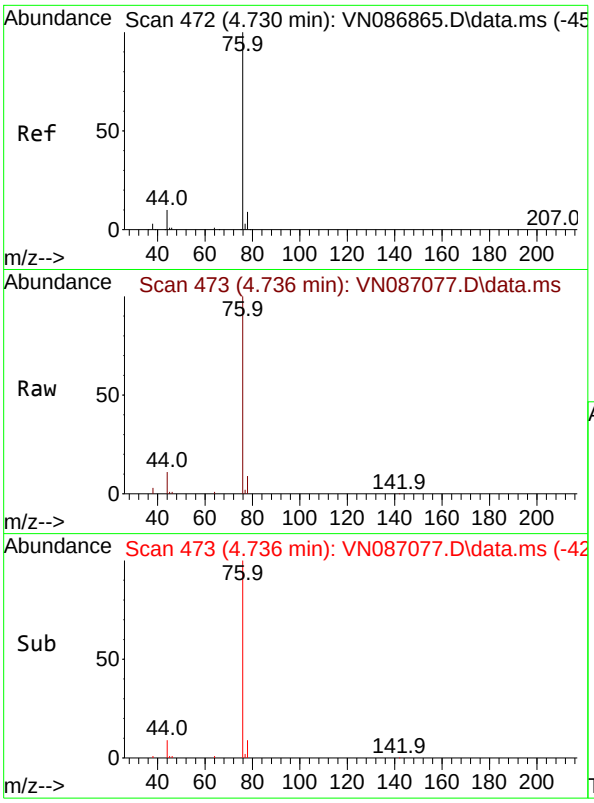


#16
Acetone
Concen: 82.911 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 43 Resp: 125781

Ion	Ratio	Lower	Upper
43	100		
58	37.9	28.0	42.0



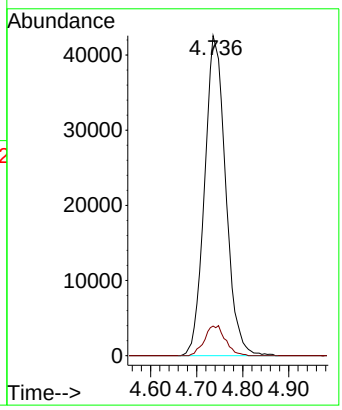


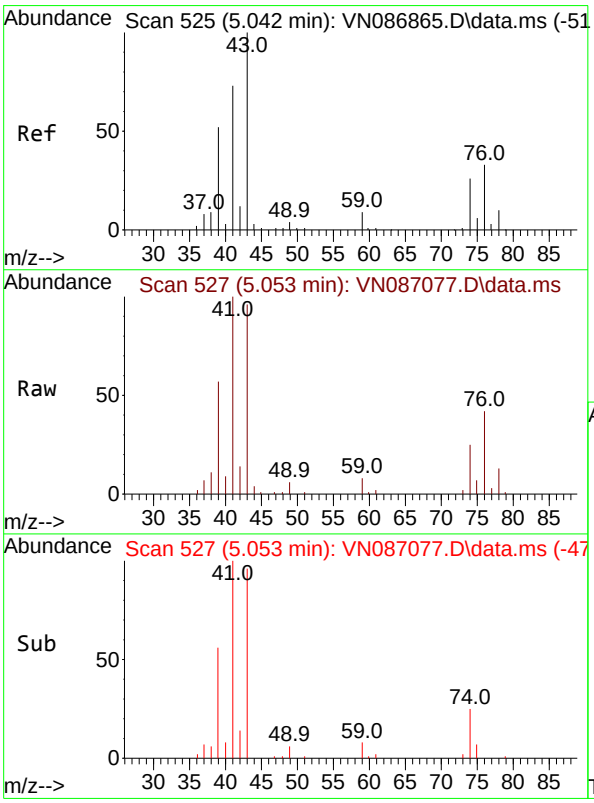
#17
Carbon Disulfide
Concen: 20.595 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 76 Resp: 135478

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9

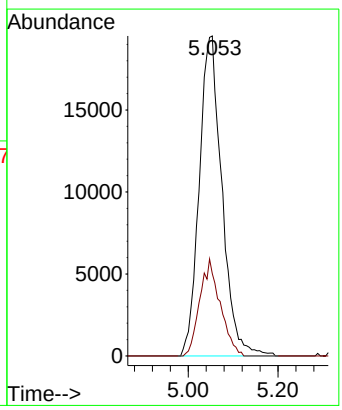


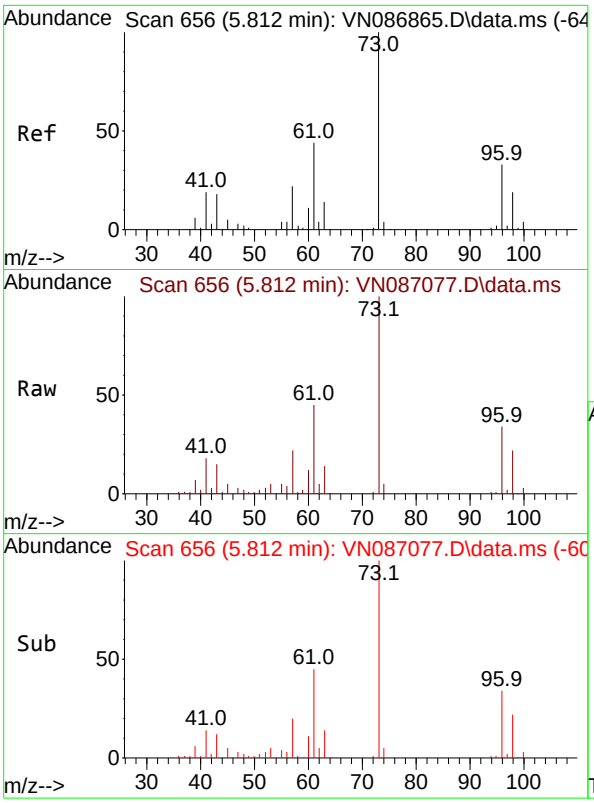


#18
Methyl Acetate
Concen: 15.472 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.012 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 43 Resp: 68403

Ion	Ratio	Lower	Upper
43	100		
74	27.3	20.7	31.1



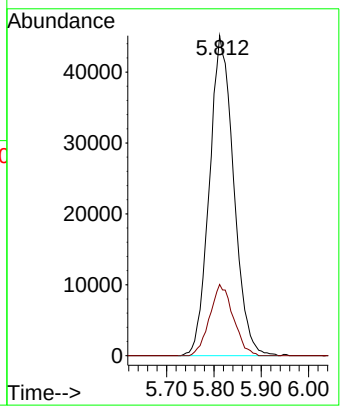


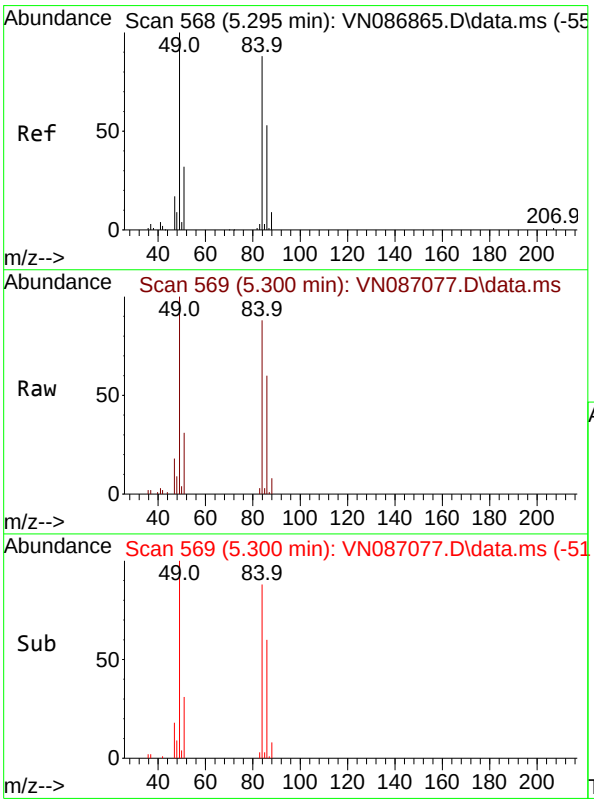
#19
Methyl tert-butyl Ether
Concen: 18.663 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 73 Resp: 160700

Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.4	26.2

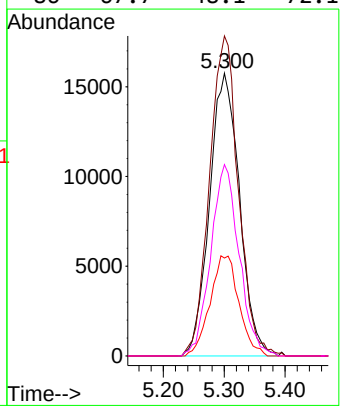


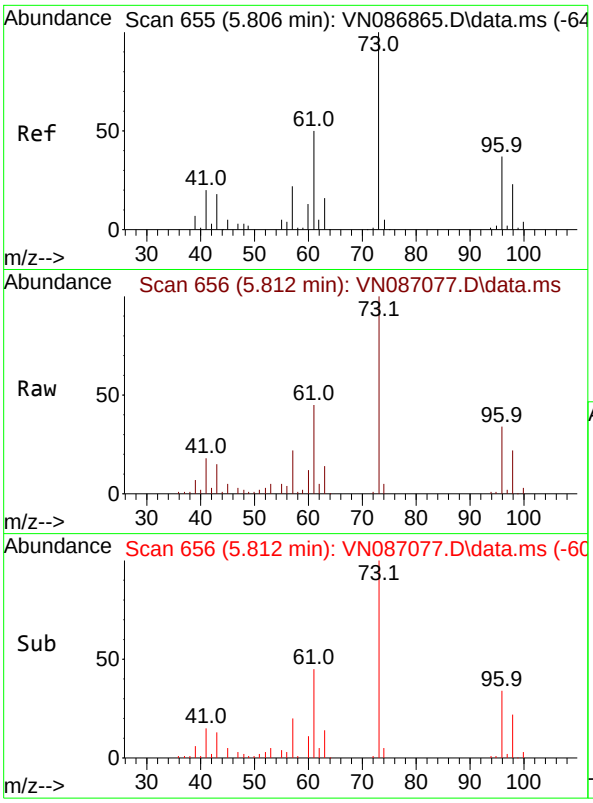


#20
Methylene Chloride
Concen: 18.978 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 84 Resp: 53901

Ion	Ratio	Lower	Upper
84	100		
49	113.2	90.5	135.7
51	34.6	28.5	42.7
86	67.7	48.1	72.1



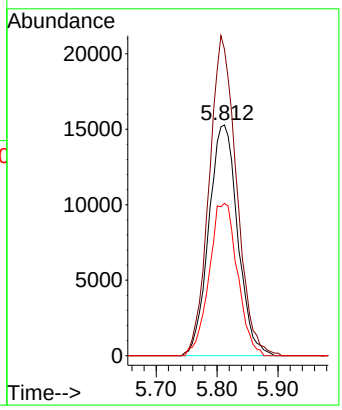


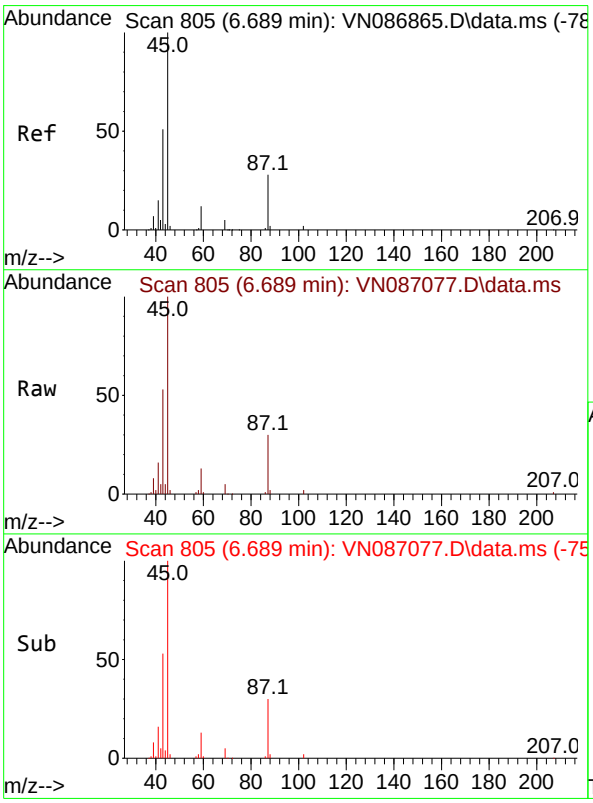
#21
trans-1,2-Dichloroethene
Concen: 19.044 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 96 Resp: 50387

Ion	Ratio	Lower	Upper
96	100		
61	132.7	109.2	163.8
98	66.0	49.8	74.8

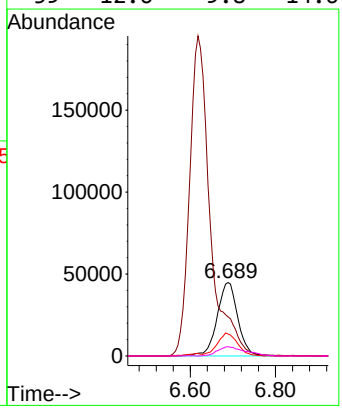


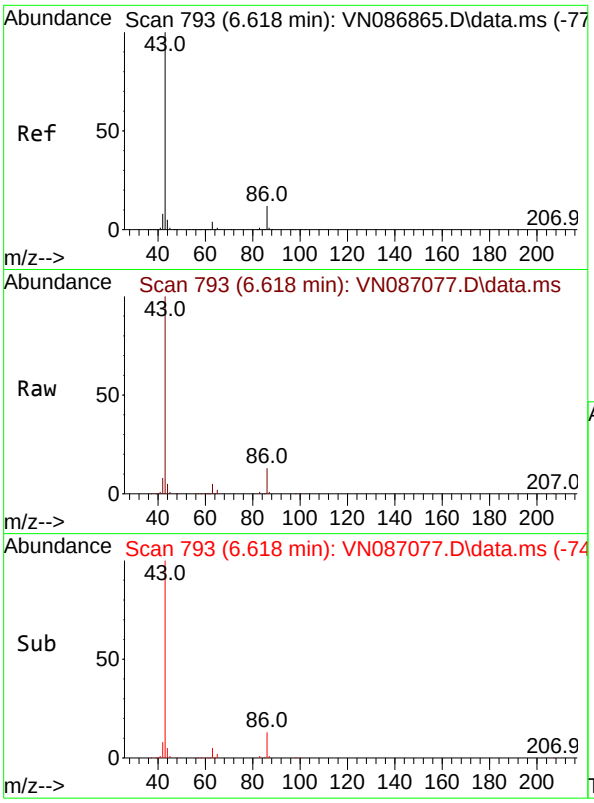


#22
Diisopropyl ether
Concen: 18.114 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 45 Resp: 150595

Ion	Ratio	Lower	Upper
45	100		
43	52.1	41.9	62.9
87	30.0	22.4	33.6
59	12.6	9.8	14.6



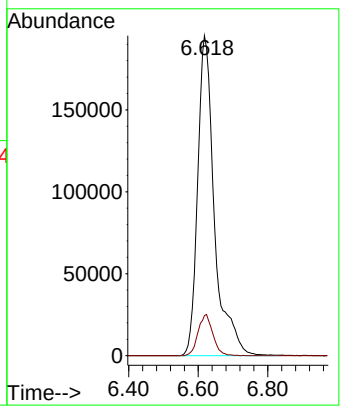


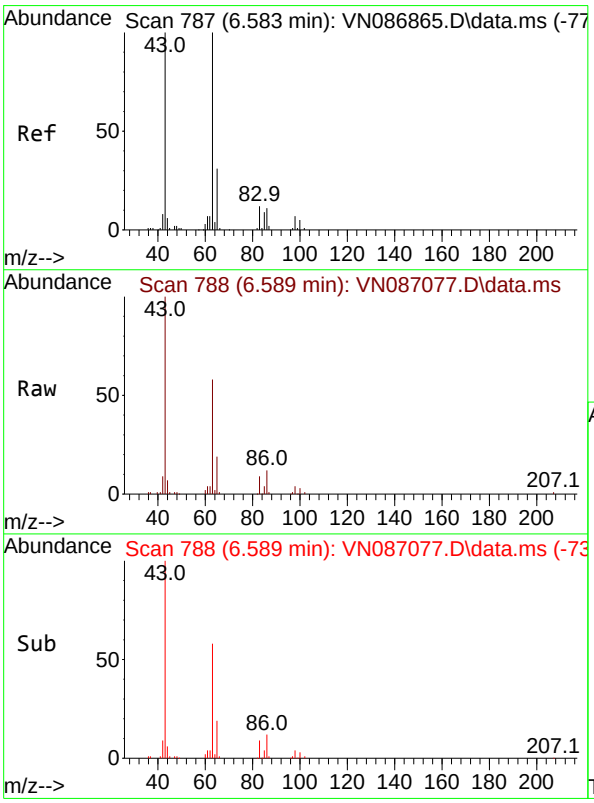
#23
Vinyl Acetate
Concen: 93.144 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 43 Resp: 654255

Ion	Ratio	Lower	Upper
43	100		
86	12.5	9.5	14.3

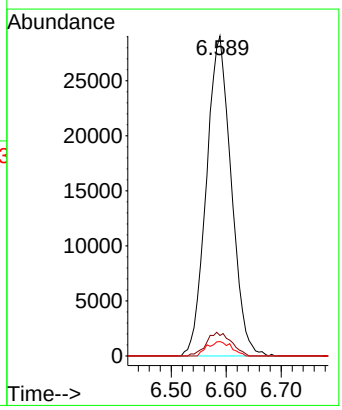


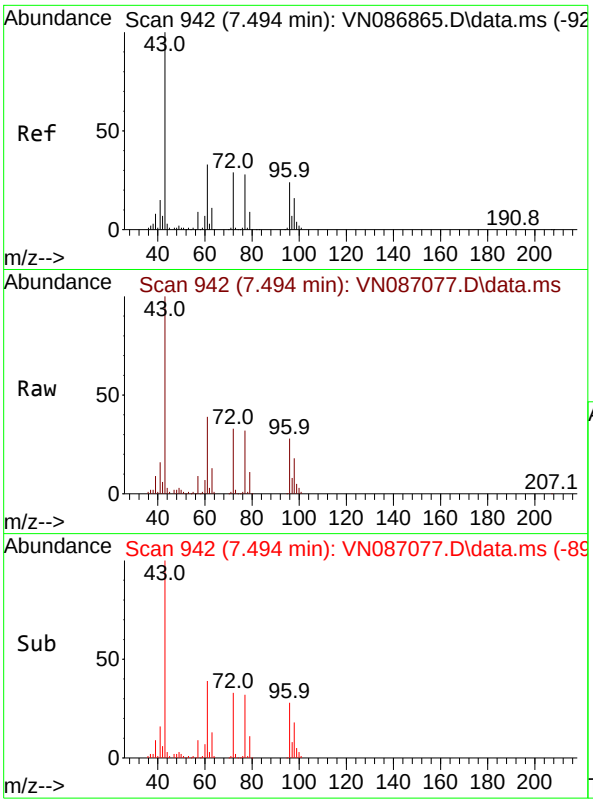


#24
1,1-Dichloroethane
Concen: 19.066 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 63 Resp: 91217

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.6	10.8
100	4.5	2.6	7.8



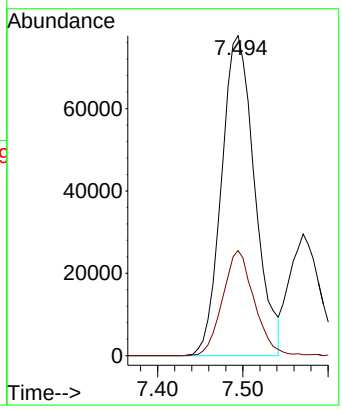


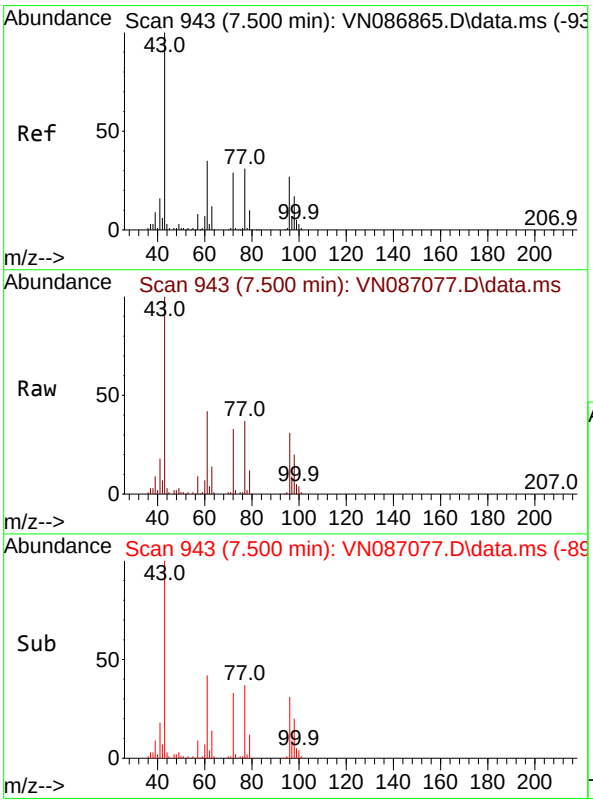
#25
2-Butanone
Concen: 85.320 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 43 Resp: 210395

Ion	Ratio	Lower	Upper
43	100		
72	32.8	23.0	34.6

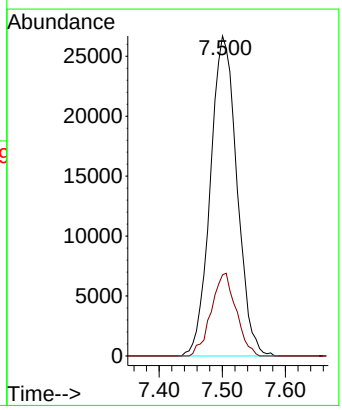


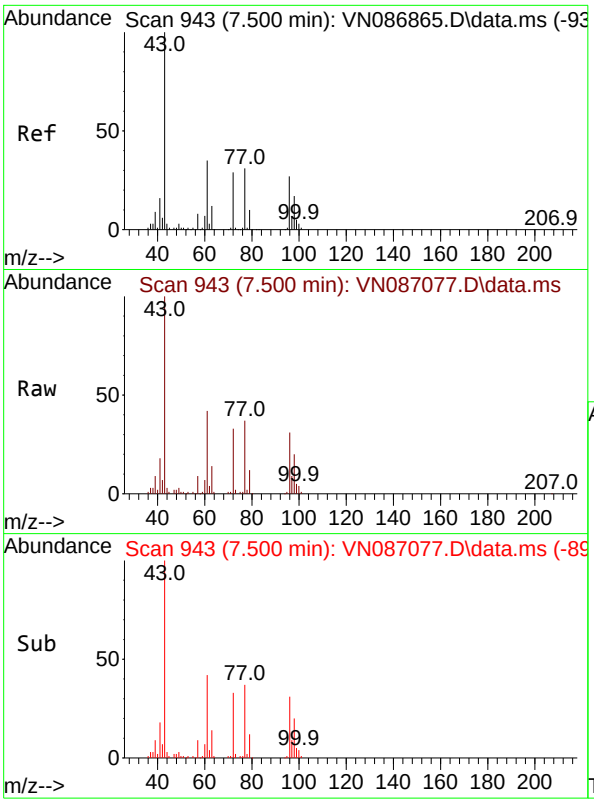


#26
2,2-Dichloropropane
Concen: 20.970 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 77 Resp: 78044

Ion	Ratio	Lower	Upper
77	100		
97	24.2	11.6	34.7



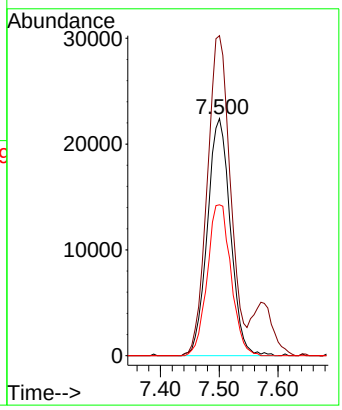


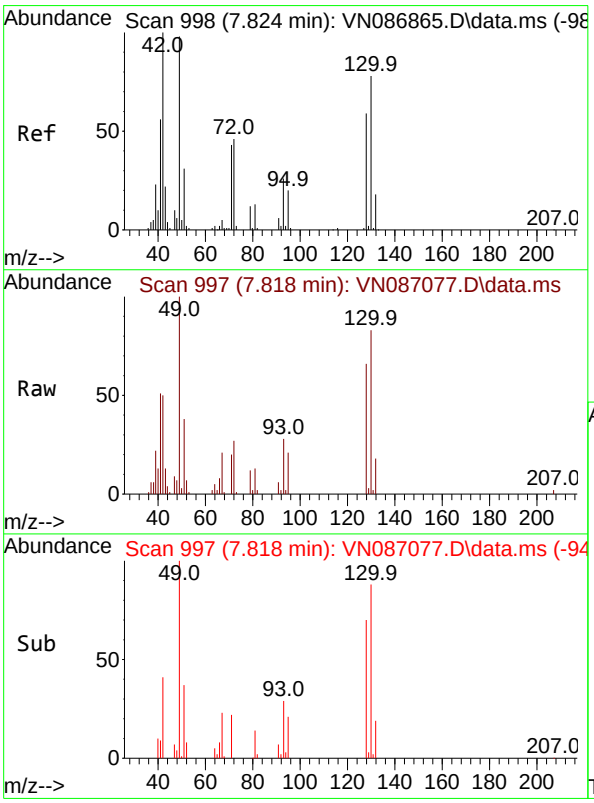
#27
cis-1,2-Dichloroethene
Concen: 19.262 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 96 Resp: 60950

Ion	Ratio	Lower	Upper
96	100		
61	135.7	0.0	278.0
98	65.6	0.0	128.2

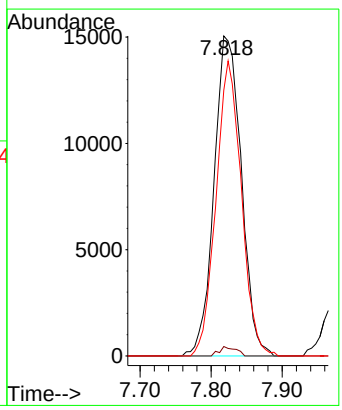


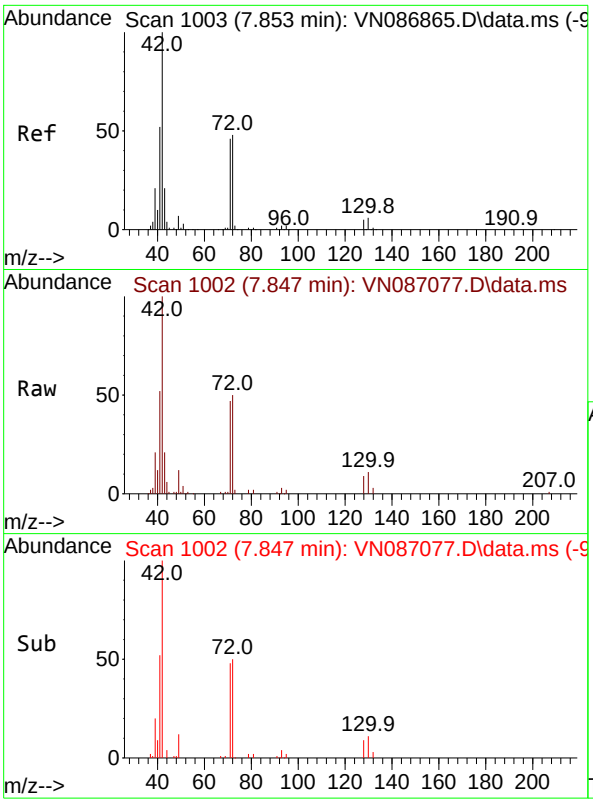


#28
Bromochloromethane
Concen: 17.058 ug/l
RT: 7.818 min Scan# 997
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 49 Resp: 40126

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	85.8	62.2	93.2



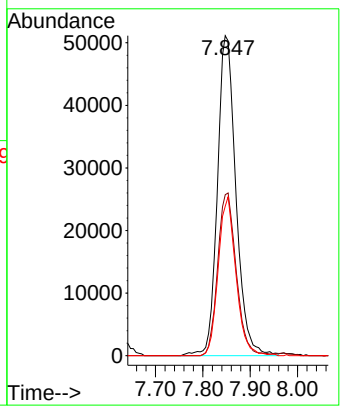


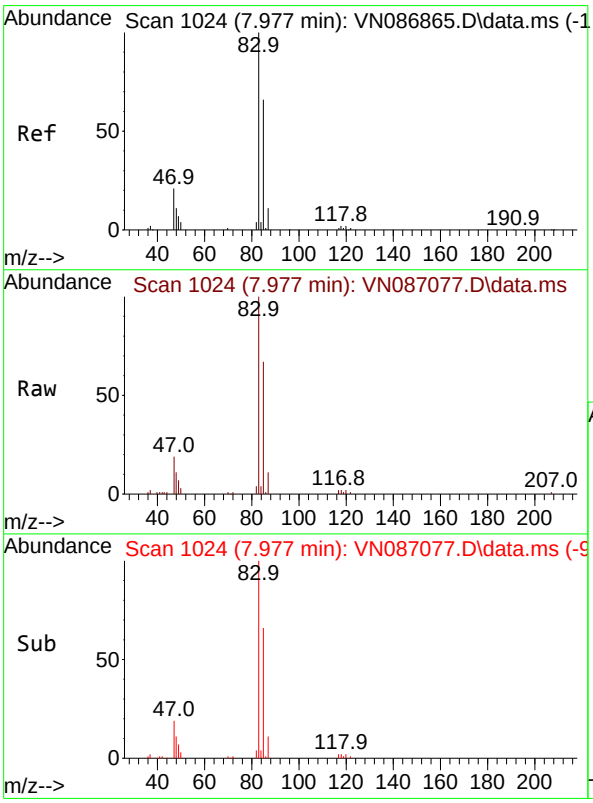
#29
Tetrahydrofuran
Concen: 86.745 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 42 Resp: 139346

Ion	Ratio	Lower	Upper
42	100		
72	50.7	37.8	56.6
71	47.2	35.6	53.4

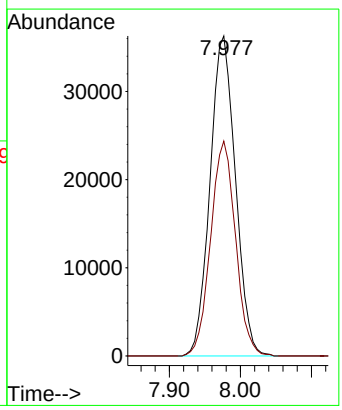


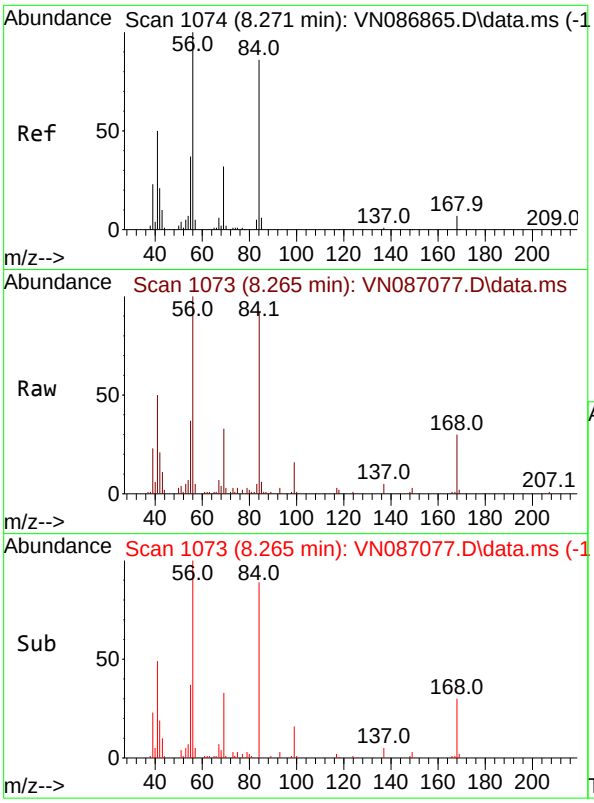


#30
Chloroform
Concen: 18.890 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 83 Resp: 90256

Ion	Ratio	Lower	Upper
83	100		
85	67.2	52.9	79.3



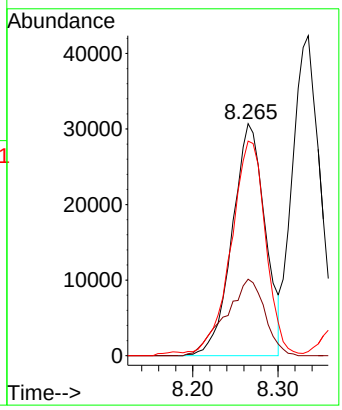


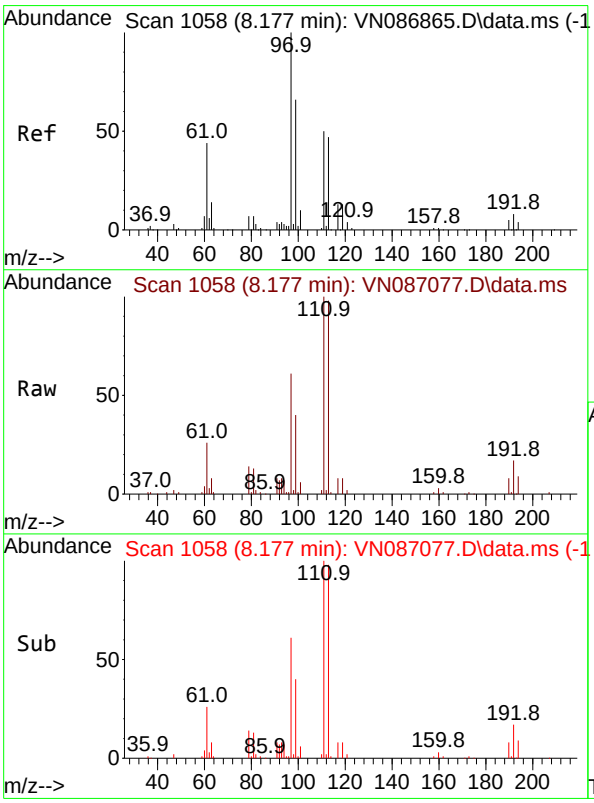
#31
Cyclohexane
Concen: 17.761 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 56 Resp: 82406

Ion	Ratio	Lower	Upper
56	100		
69	32.9	25.4	38.0
84	91.0	68.8	103.2

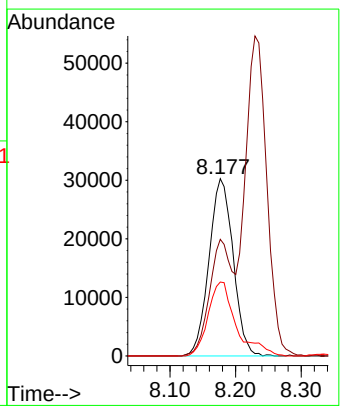


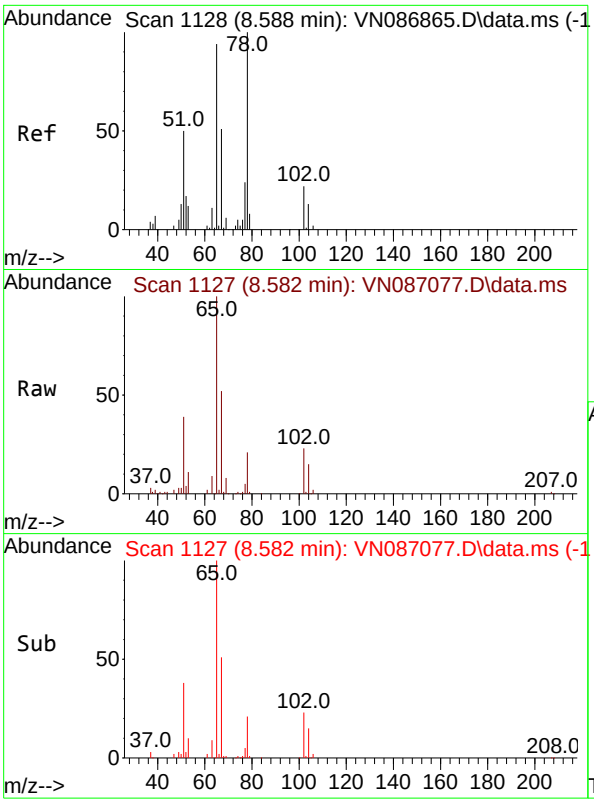


#32
1,1,1-Trichloroethane
Concen: 19.036 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 97 Resp: 77358

Ion	Ratio	Lower	Upper
97	100		
99	63.6	52.0	78.0
61	48.3	35.9	53.9



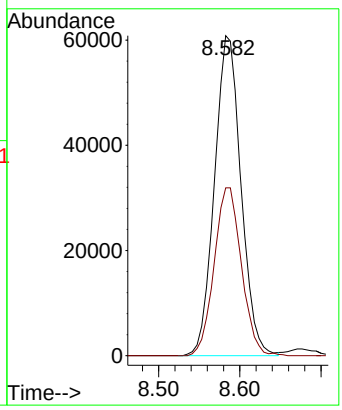


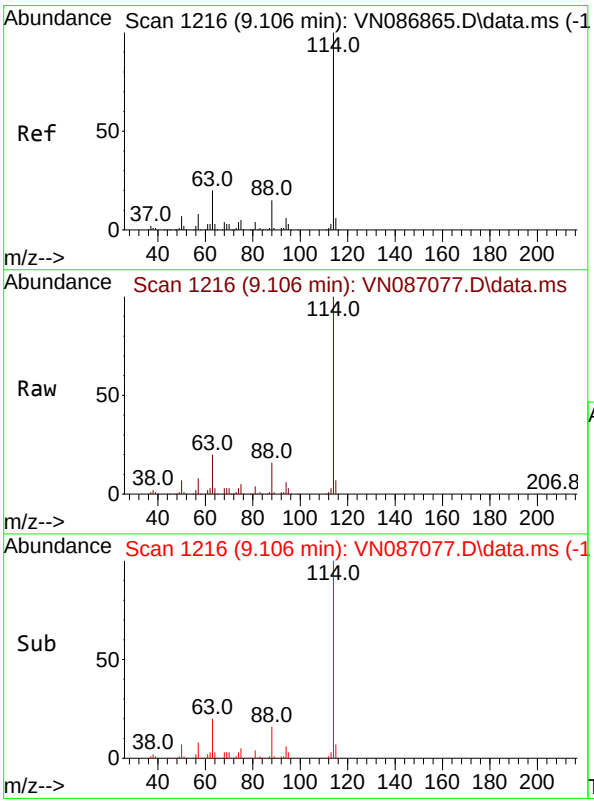
#33
1,2-Dichloroethane-d4
Concen: 48.253 ug/l
RT: 8.582 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 65 Resp: 138039

Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	105.6

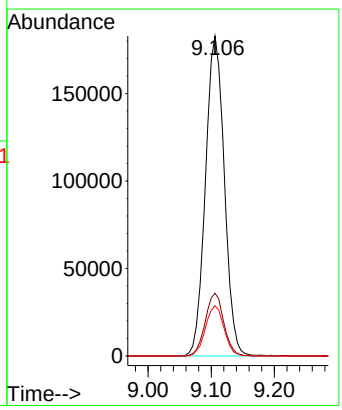


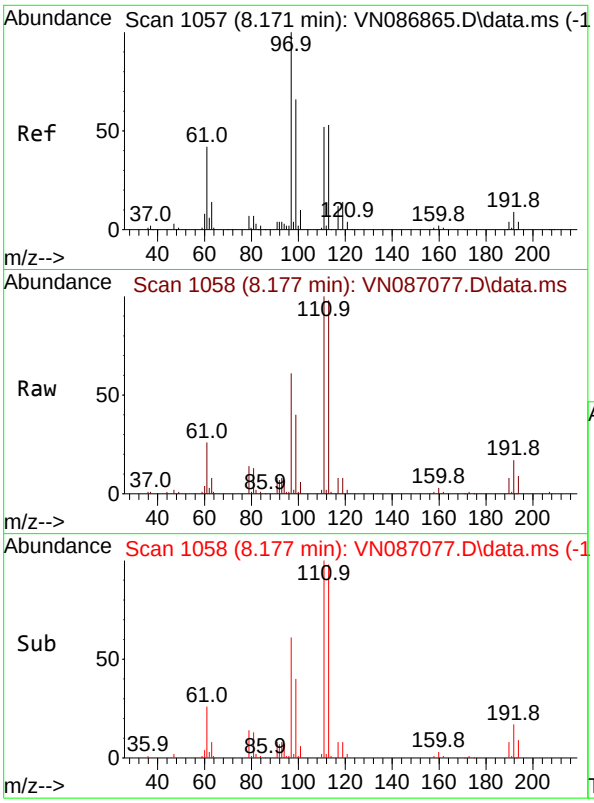


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:114 Resp: 379722

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.6
88	15.7	0.0	30.2



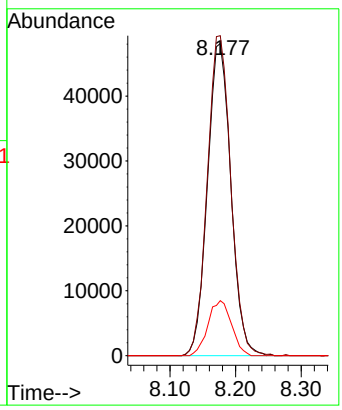


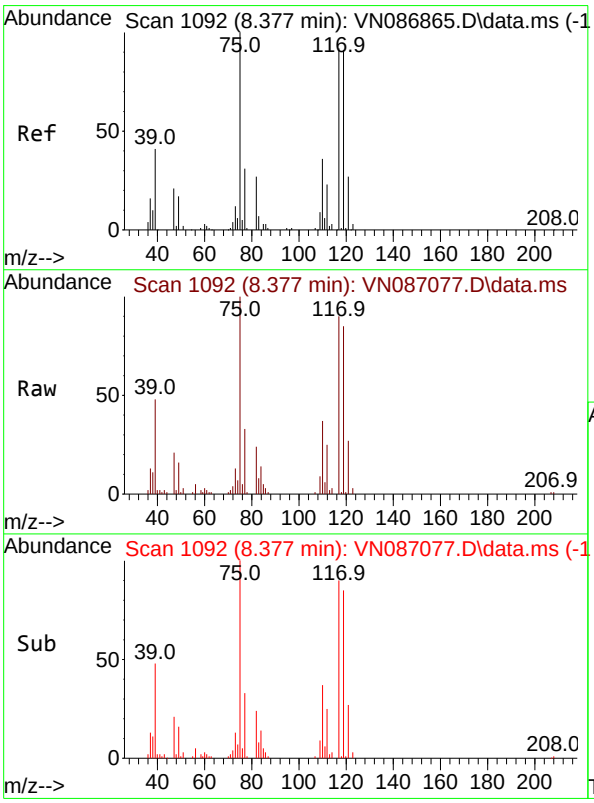
#35
Dibromofluoromethane
Concen: 52.991 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:113 Resp: 119246

Ion	Ratio	Lower	Upper
113	100		
111	102.9	84.2	126.2
192	17.7	14.2	21.4

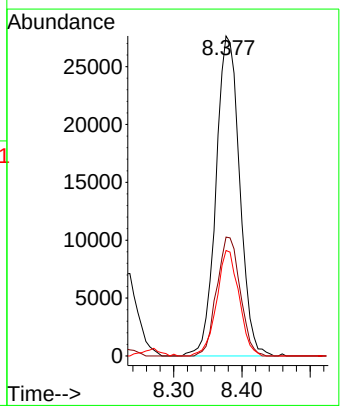


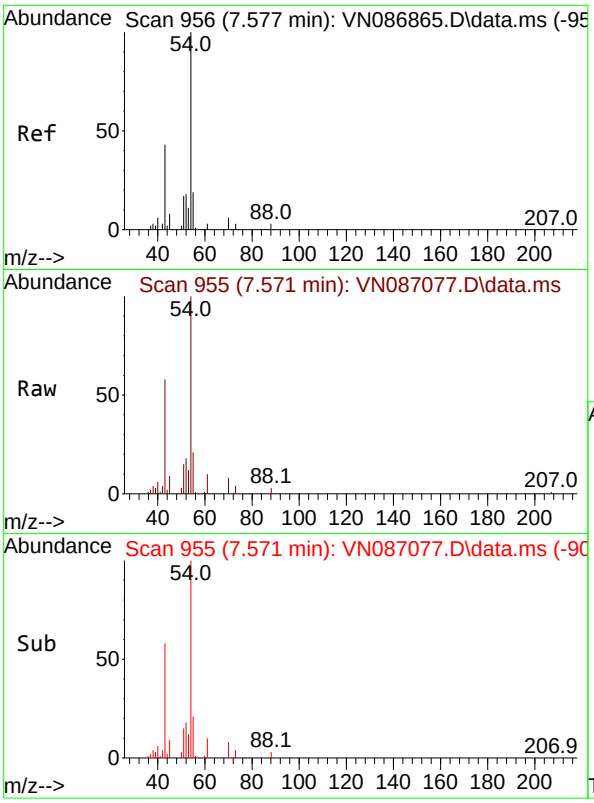


#36
1,1-Dichloropropene
Concen: 19.907 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 75 Resp: 66753

Ion	Ratio	Lower	Upper
75	100		
110	36.7	17.6	52.9
77	31.3	25.3	37.9



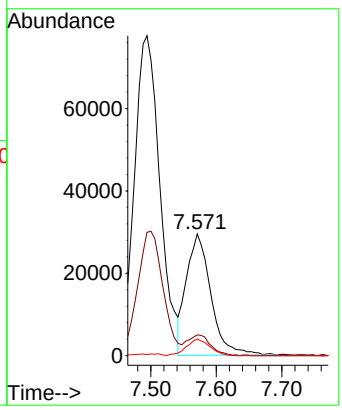


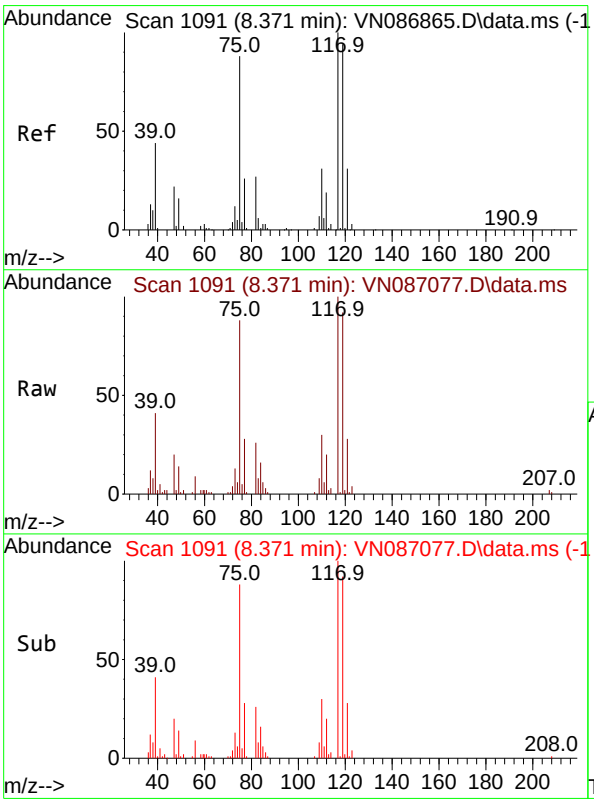
#37
Ethyl Acetate
Concen: 17.891 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 43 Resp: 76370

Ion	Ratio	Lower	Upper
43	100		
61	16.1	12.1	18.1
70	13.0	9.8	14.6

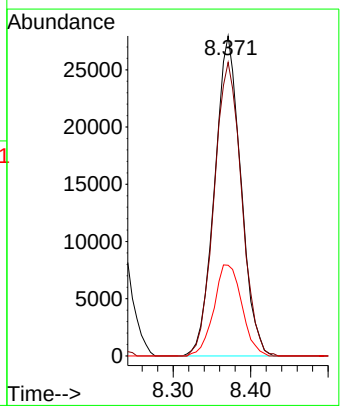


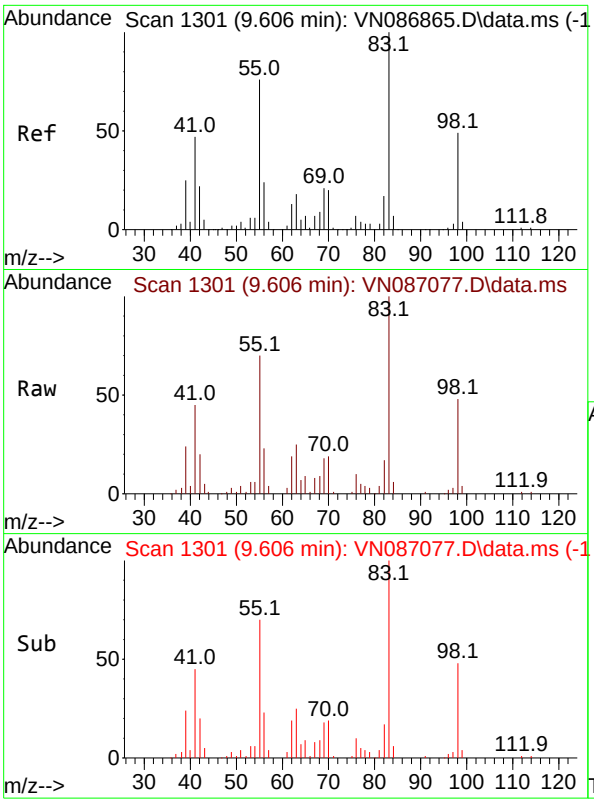


#38
Carbon Tetrachloride
Concen: 19.984 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:117 Resp: 65790

Ion	Ratio	Lower	Upper
117	100		
119	91.8	75.0	112.6
121	28.3	24.9	37.3



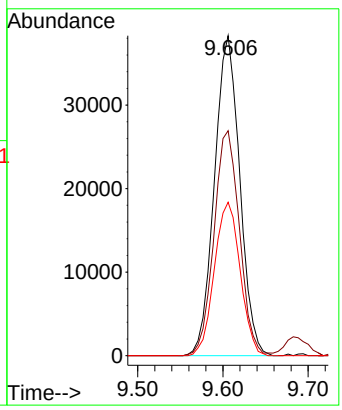


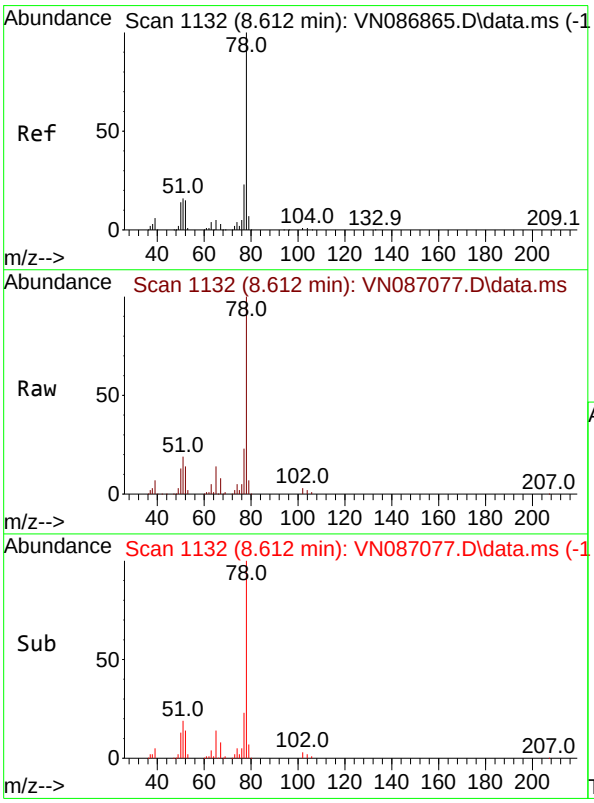
#39
Methylcyclohexane
Concen: 17.214 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 83 Resp: 79083

Ion	Ratio	Lower	Upper
83	100		
55	70.3	61.0	91.6
98	48.0	38.9	58.3

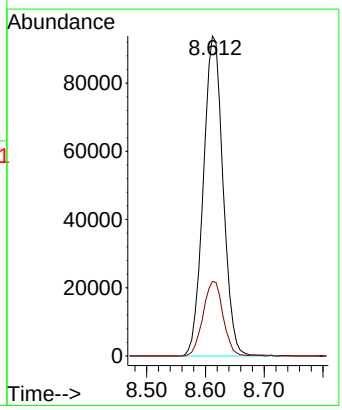


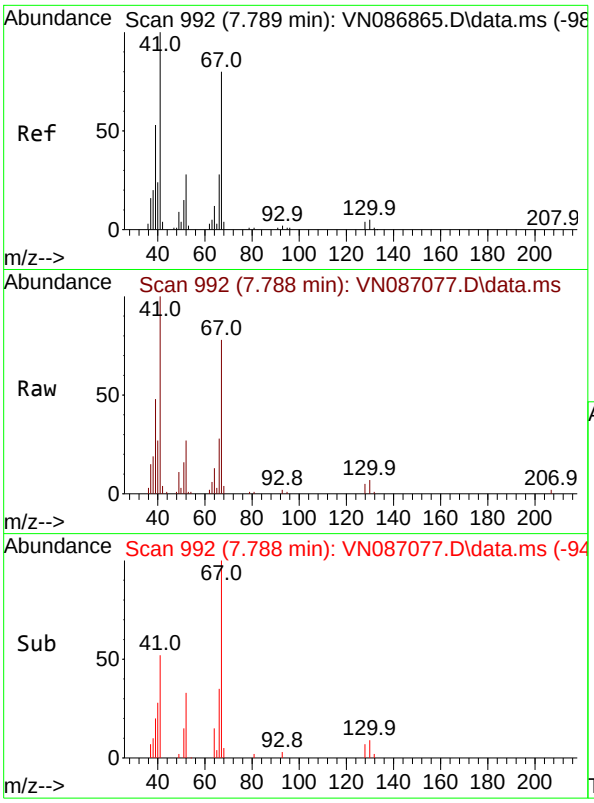


#40
Benzene
Concen: 19.886 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 78 Resp: 218047

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.7	28.1



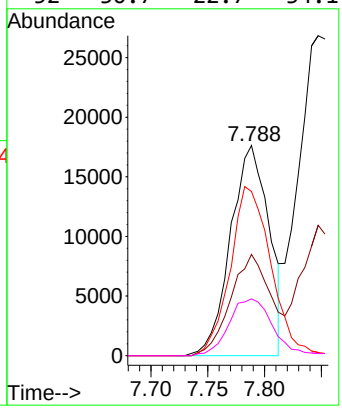


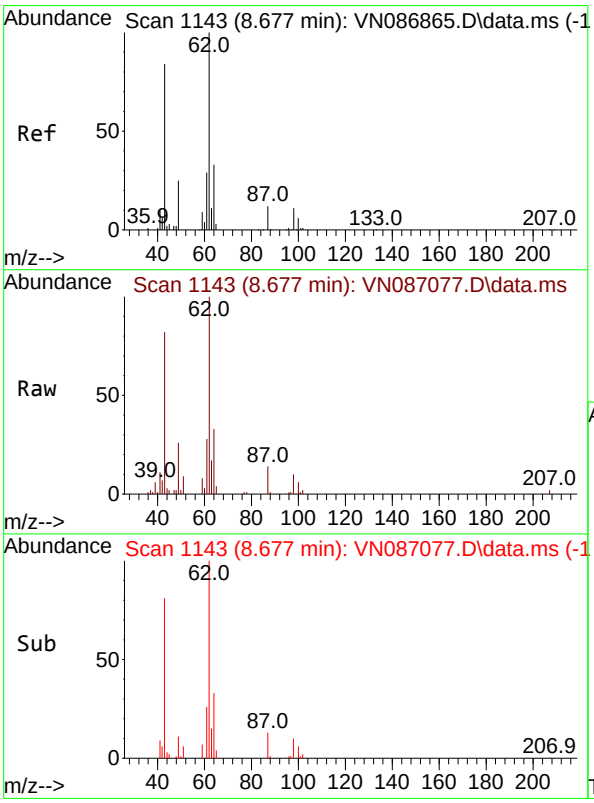
#41
Methacrylonitrile
Concen: 17.322 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 41 Resp: 41526

Ion	Ratio	Lower	Upper
41	100		
39	51.4	41.2	61.8
67	85.3	61.4	92.2
52	30.7	22.7	34.1

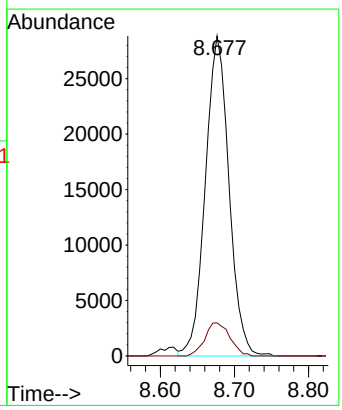


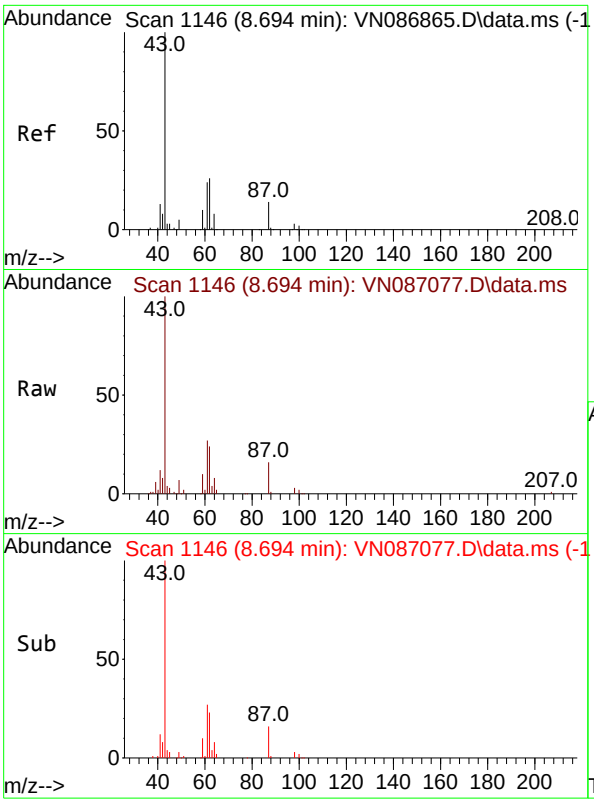


#42
1,2-Dichloroethane
Concen: 19.212 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 62 Resp: 63897

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	21.2



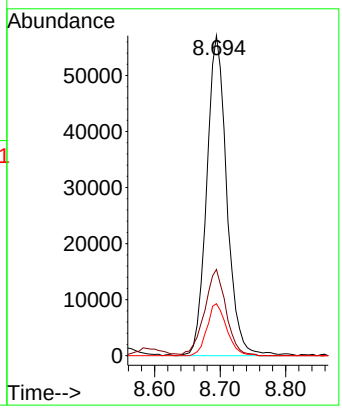


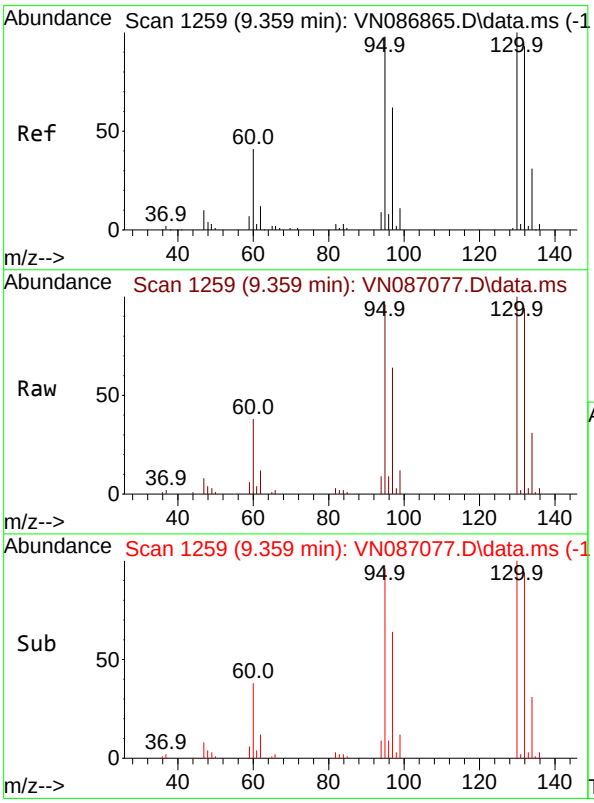
#43
Isopropyl Acetate
Concen: 17.757 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 43 Resp: 121654

Ion	Ratio	Lower	Upper
43	100		
61	29.0	22.1	33.1
87	15.9	11.8	17.6

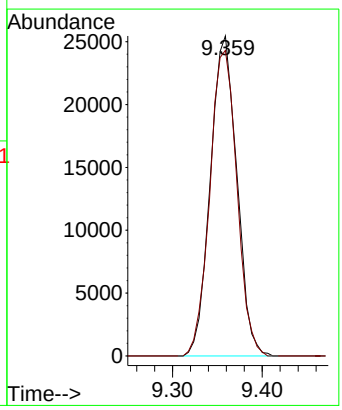


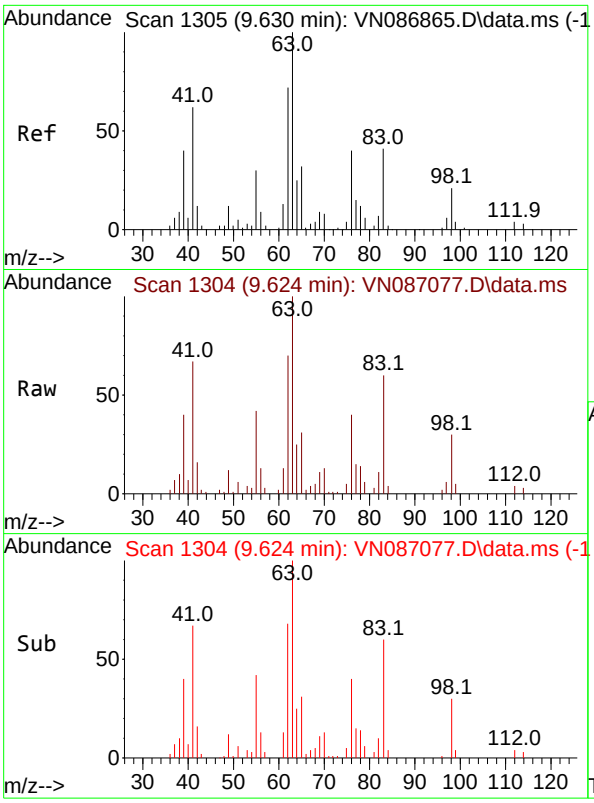


#44
Trichloroethene
Concen: 20.074 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:130 Resp: 52194

Ion	Ratio	Lower	Upper
130	100		
95	95.5	0.0	196.2



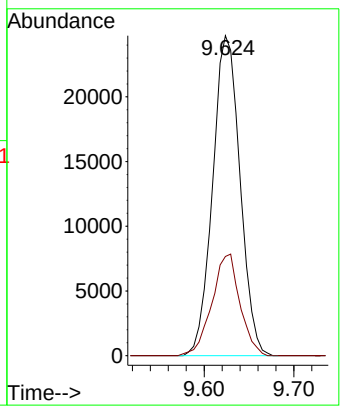


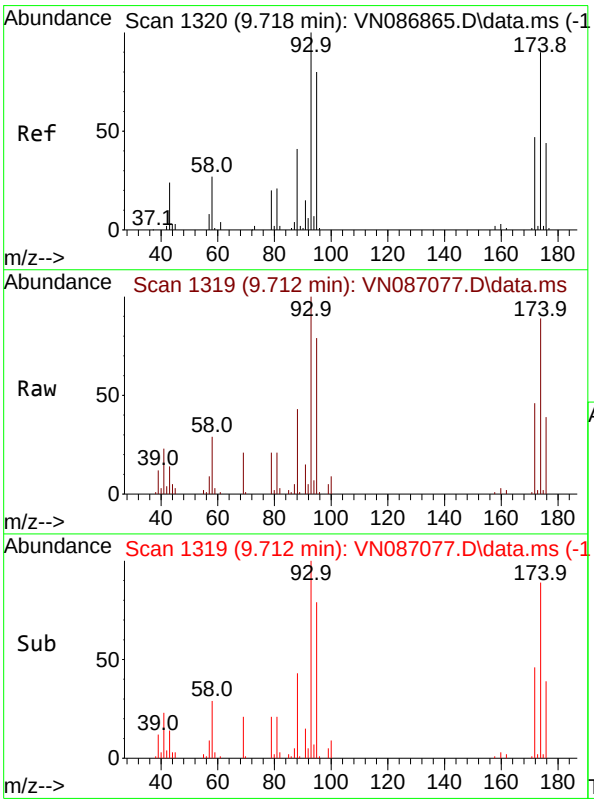
#45
1,2-Dichloropropane
Concen: 19.622 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 63 Resp: 52345

Ion	Ratio	Lower	Upper
63	100		
65	31.0	25.5	38.3

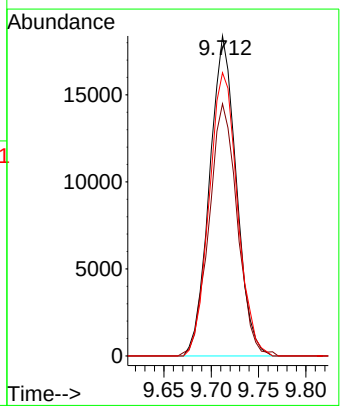


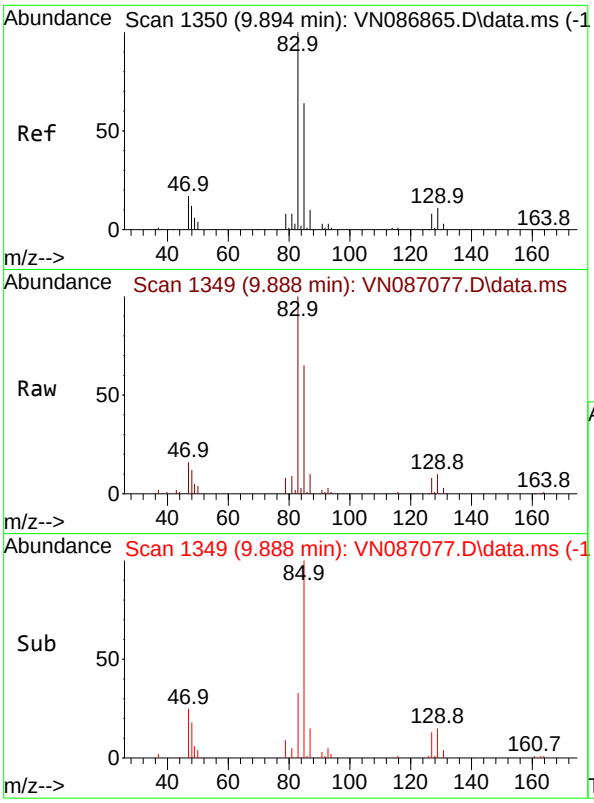


#46
Dibromomethane
Concen: 20.468 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 93 Resp: 36267

Ion	Ratio	Lower	Upper
93	100		
95	82.6	67.1	100.7
174	93.1	74.2	111.4



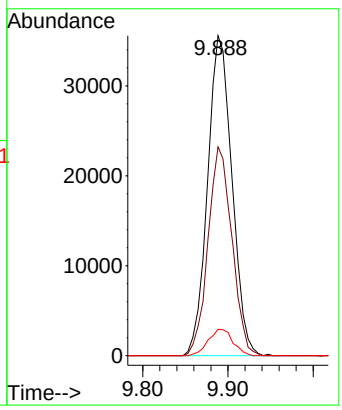


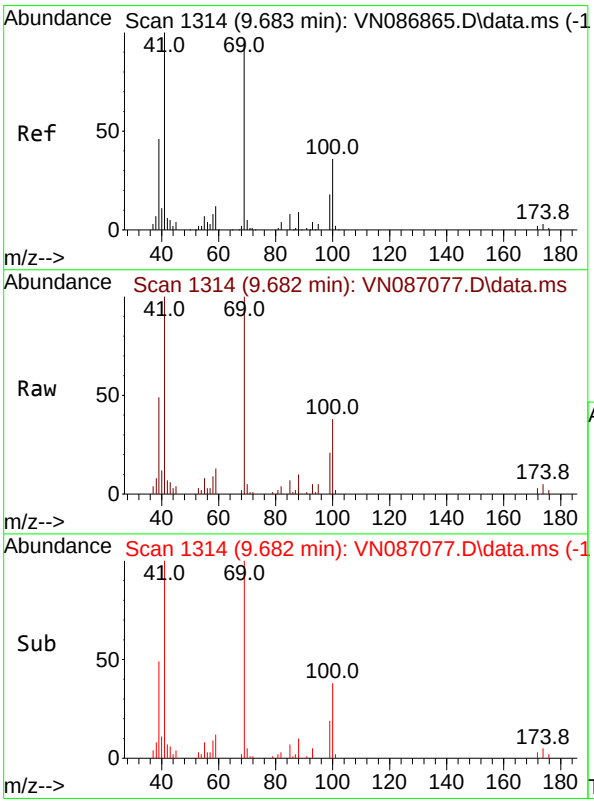
#47
Bromodichloromethane
Concen: 19.391 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 83 Resp: 70694

Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.9	76.3
127	8.3	6.6	10.0

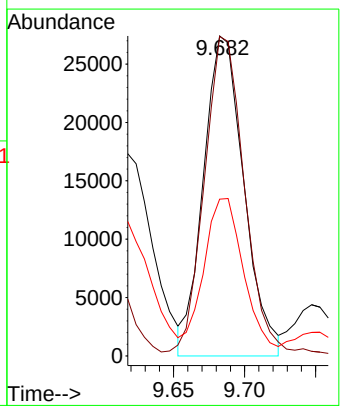


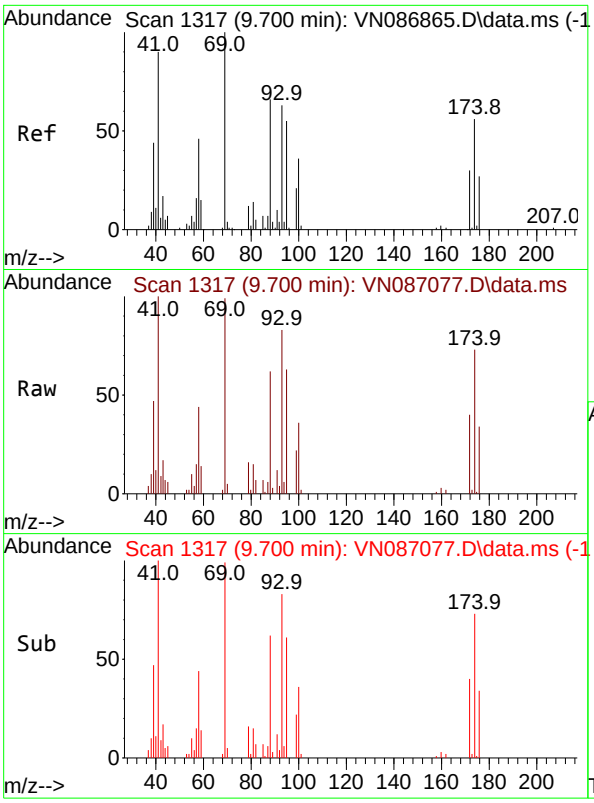


#48
Methyl methacrylate
Concen: 17.208 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 41 Resp: 54263

Ion	Ratio	Lower	Upper
41	100		
69	100.5	74.6	112.0
39	49.8	40.2	60.4



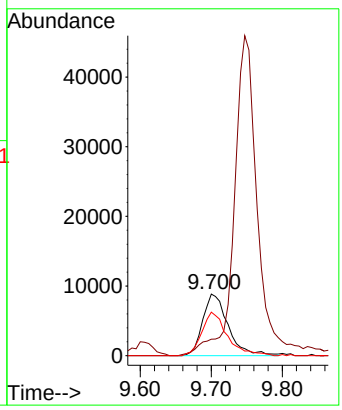


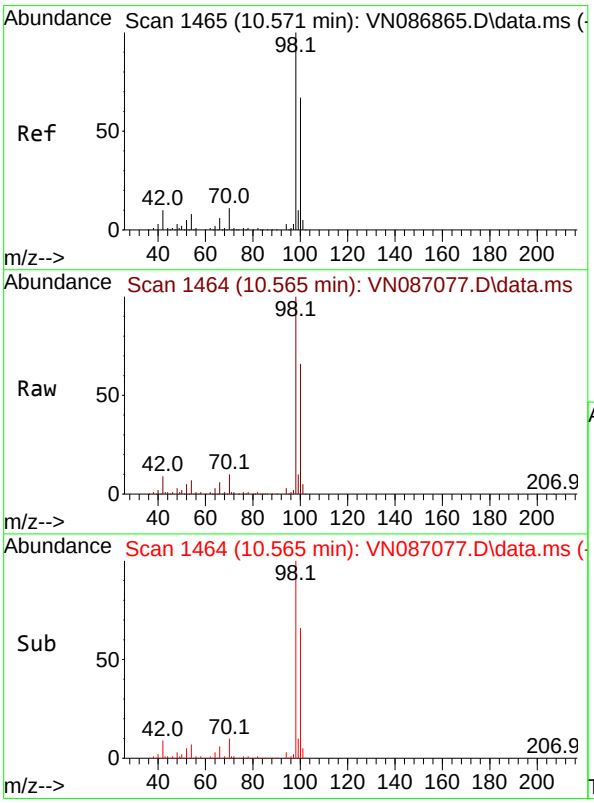
#49
1,4-Dioxane
Concen: 383.882 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 88 Resp: 22022

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	70.8	57.7	86.5

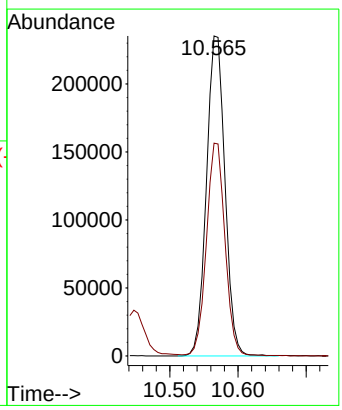


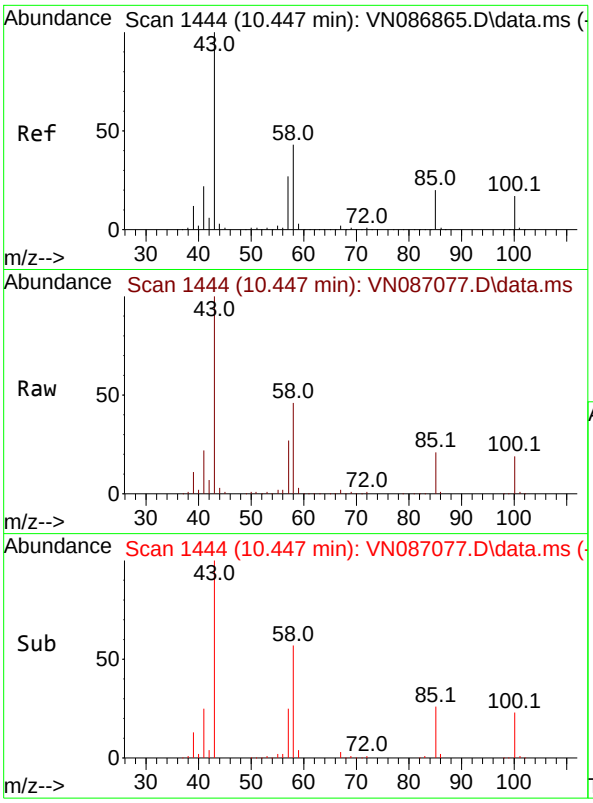


#50
Toluene-d8
Concen: 49.796 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 98 Resp: 443603

Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.4	80.0



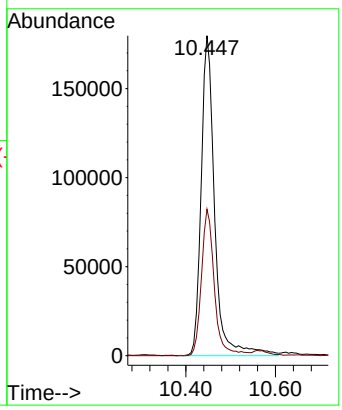


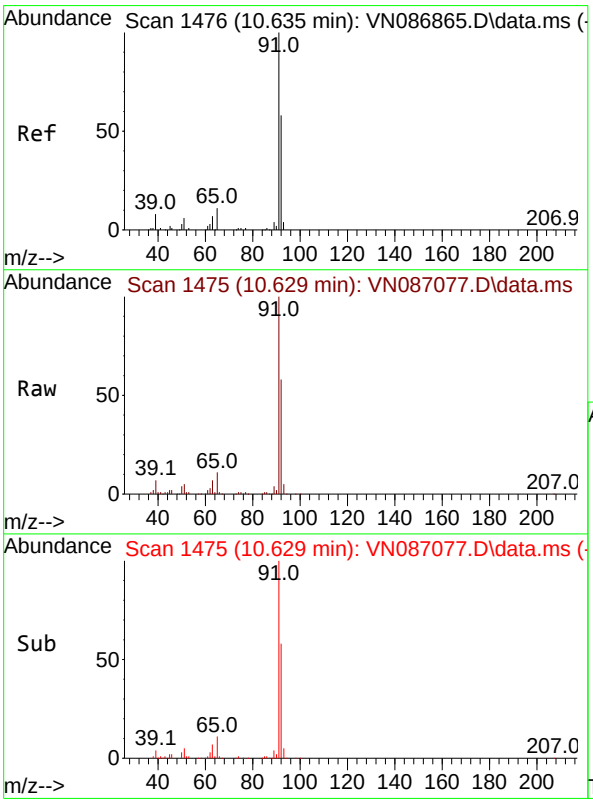
#51
4-Methyl-2-Pentanone
Concen: 90.991 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 43 Resp: 375290

Ion	Ratio	Lower	Upper
43	100		
58	43.8	34.2	51.4

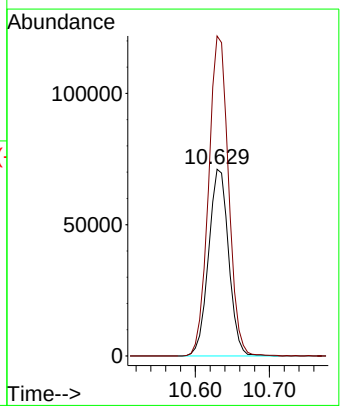


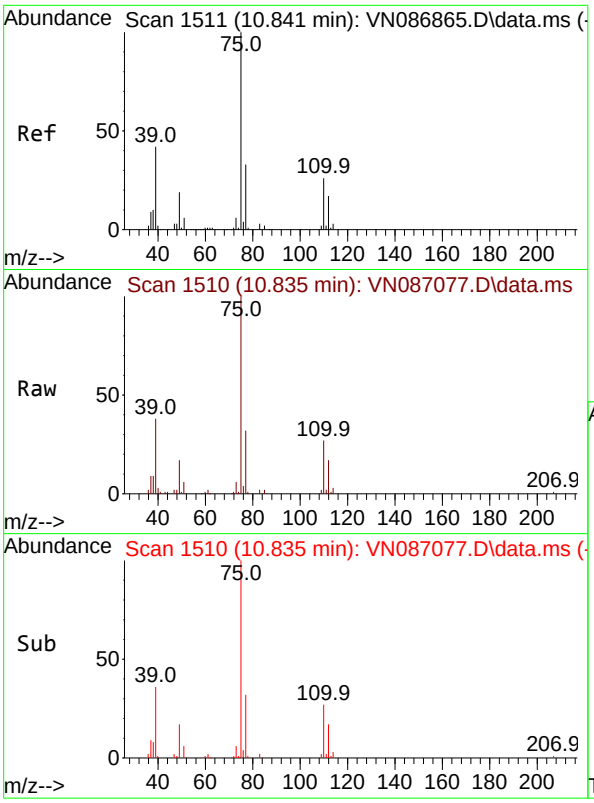


#52
Toluene
Concen: 19.954 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 92 Resp: 133714

Ion	Ratio	Lower	Upper
92	100		
91	170.2	136.5	204.7



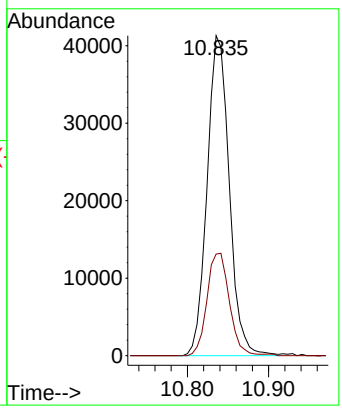


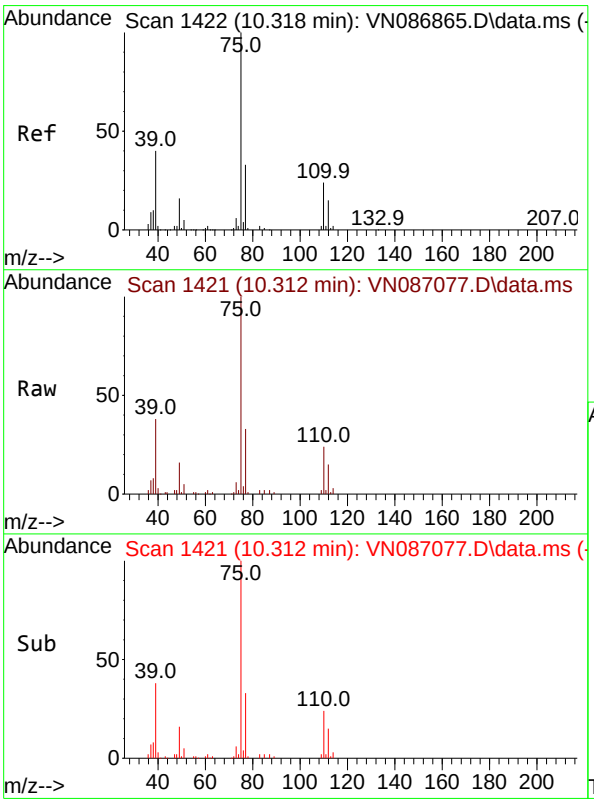
#53
t-1,3-Dichloropropene
Concen: 19.170 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 75 Resp: 78148

Ion	Ratio	Lower	Upper
75	100		
77	31.7	26.4	39.6

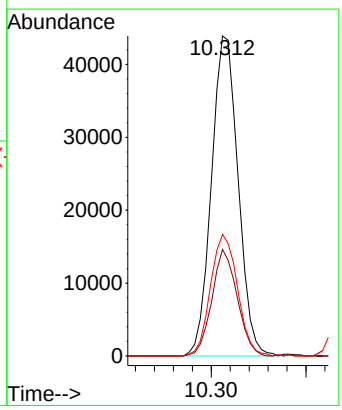


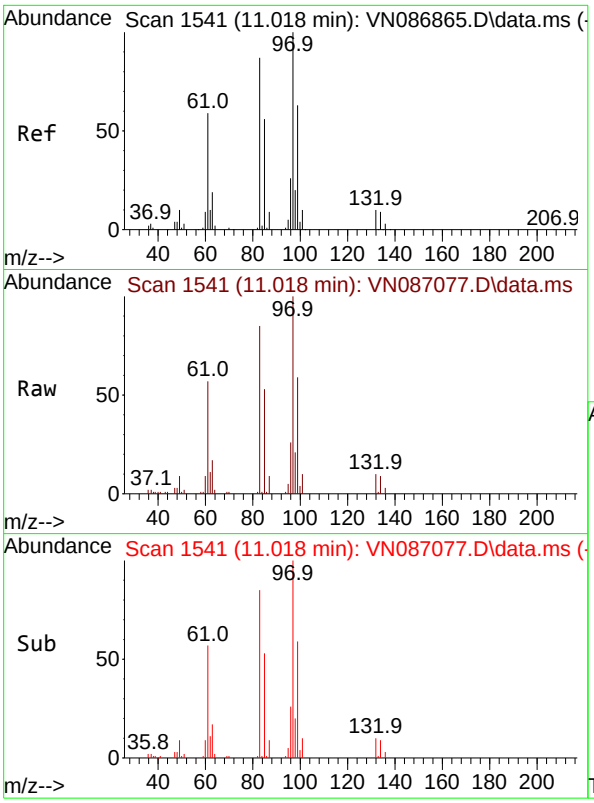


#54
cis-1,3-Dichloropropene
Concen: 19.682 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 75 Resp: 85848

Ion	Ratio	Lower	Upper
75	100		
77	33.3	26.2	39.4
39	38.0	32.3	48.5



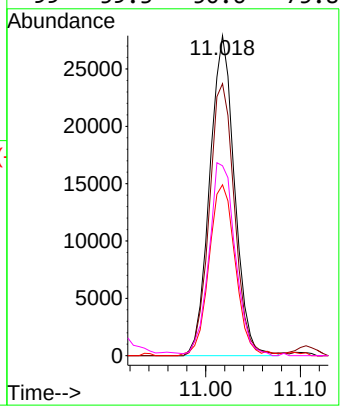


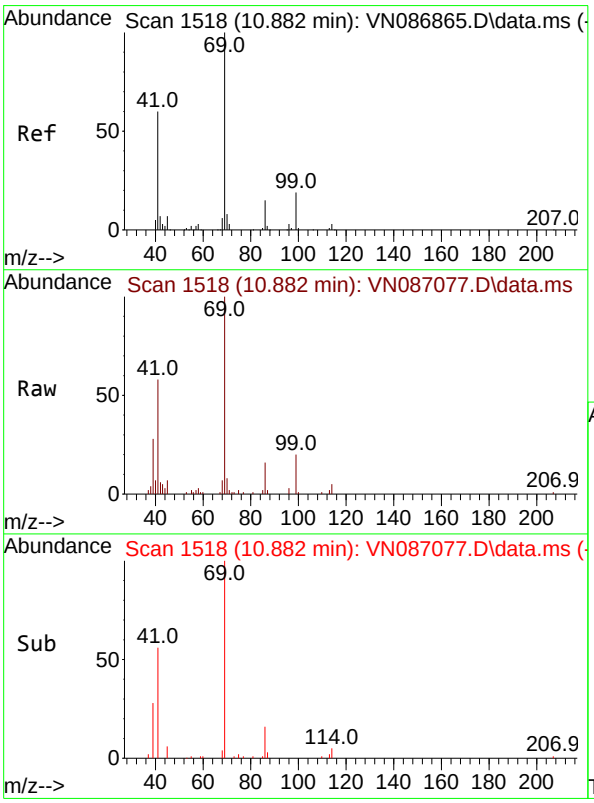
#55
1,1,2-Trichloroethane
Concen: 19.709 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 97 Resp: 50818

Ion	Ratio	Lower	Upper
97	100		
83	85.0	69.7	104.5
85	53.4	45.1	67.7
99	59.3	50.6	75.8

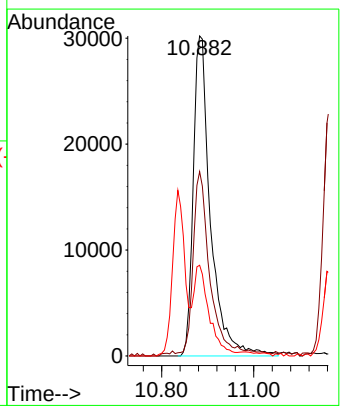


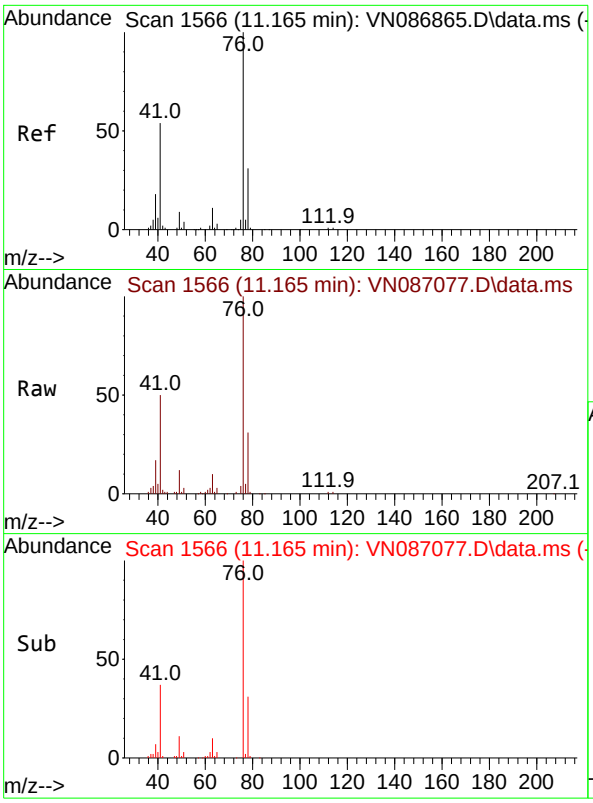


#56
Ethyl methacrylate
Concen: 19.138 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 69 Resp: 78597

Ion	Ratio	Lower	Upper
69	100		
41	53.5	47.2	70.8
39	22.9	23.0	34.6#



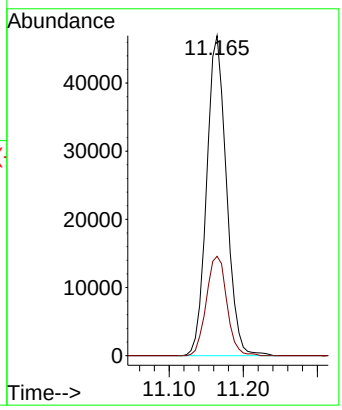


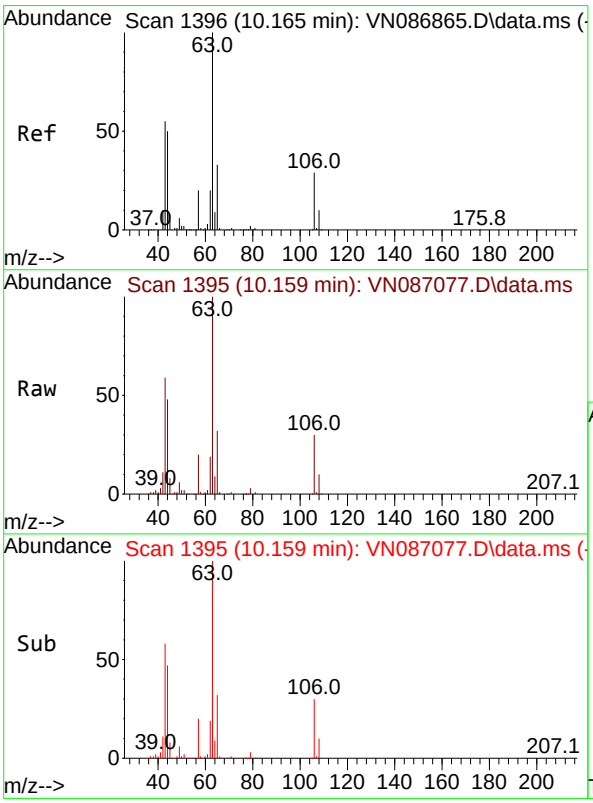
#57
1,3-Dichloropropane
Concen: 19.433 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 76 Resp: 86921

Ion	Ratio	Lower	Upper
76	100		
78	32.2	25.3	37.9

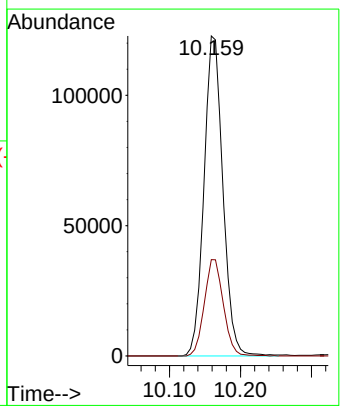


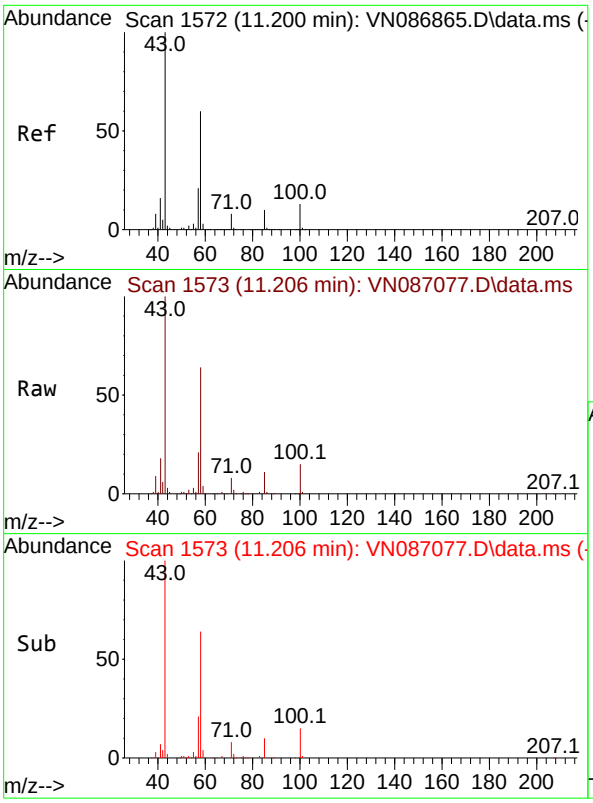


#58
2-Chloroethyl Vinyl ether
Concen: 92.795 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 63 Resp: 227303

Ion	Ratio	Lower	Upper
63	100		
106	30.3	23.0	34.6



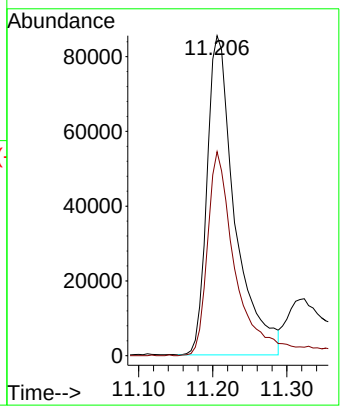


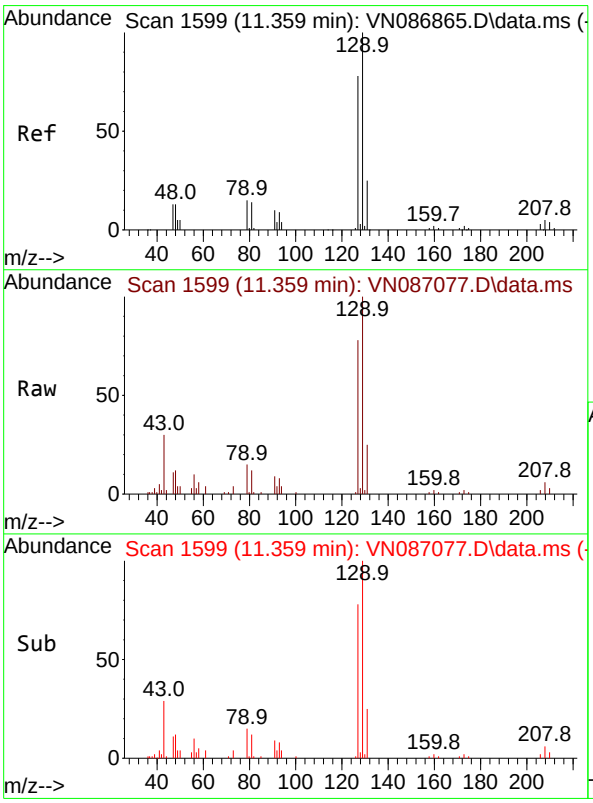
#59
2-Hexanone
Concen: 83.880 ug/l
RT: 11.206 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 43 Resp: 222844

Ion	Ratio	Lower	Upper
43	100		
58	67.7	30.4	91.3

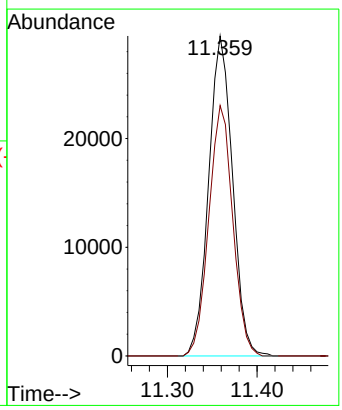


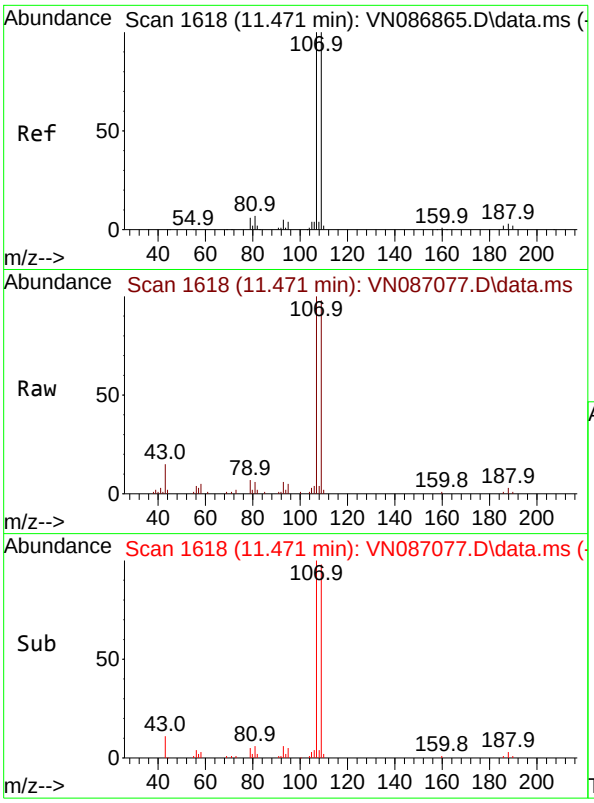


#60
Dibromochloromethane
Concen: 20.267 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:129 Resp: 54446

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.6	115.8



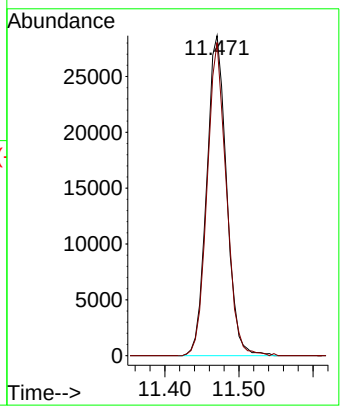


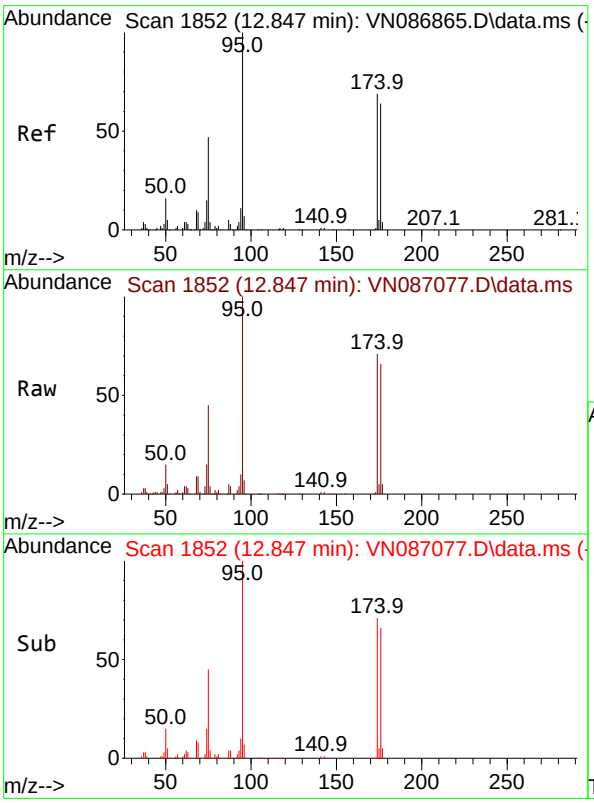
#61
1,2-Dibromoethane
Concen: 20.177 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:107 Resp: 53326

Ion	Ratio	Lower	Upper
107	100		
109	94.9	76.3	114.5

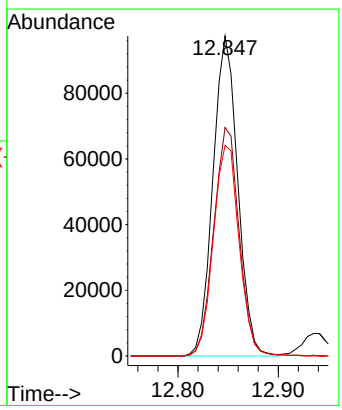


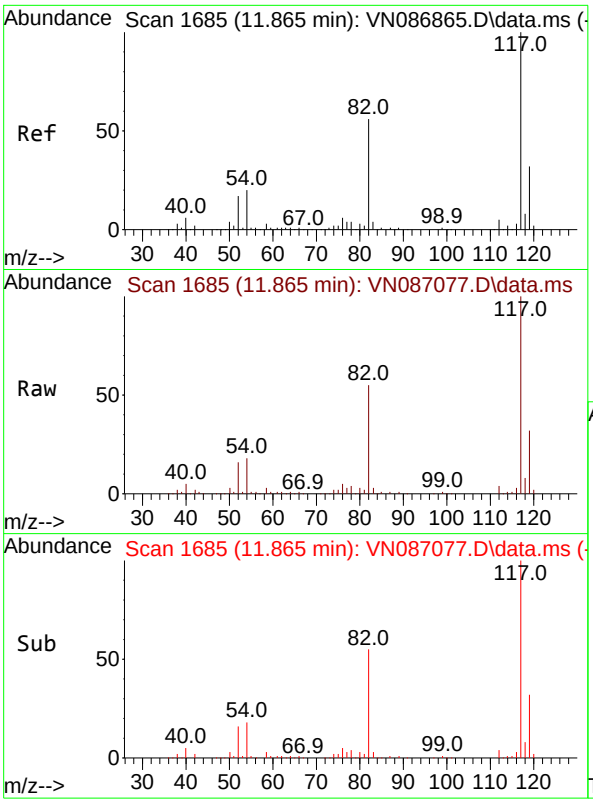


#62
4-Bromofluorobenzene
Concen: 50.428 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 95 Resp: 166905

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	141.8
176	68.8	0.0	132.6



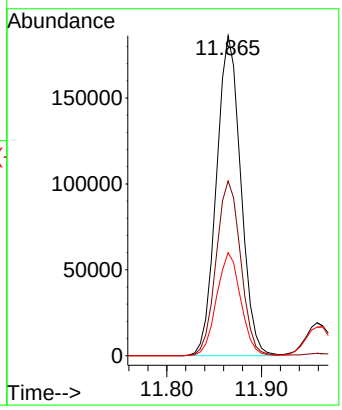


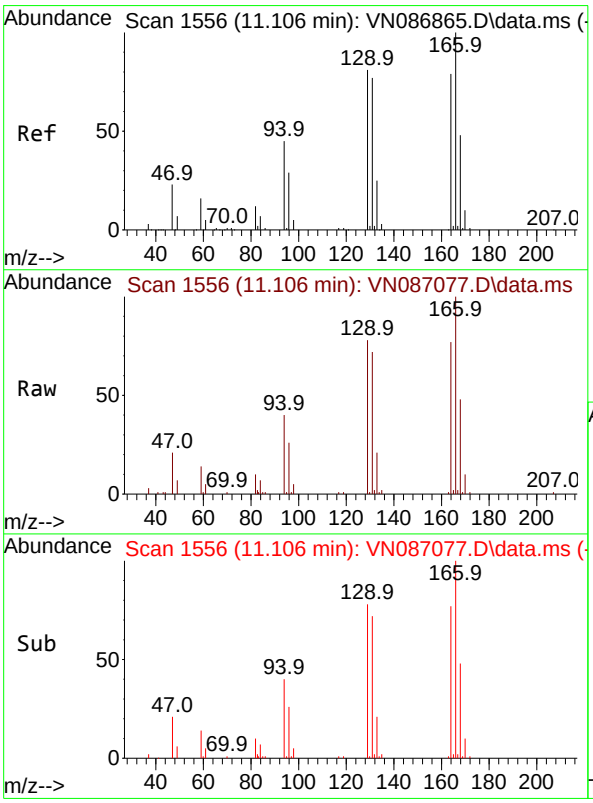
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:117 Resp: 333122

Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.6	67.0
119	32.2	25.5	38.3

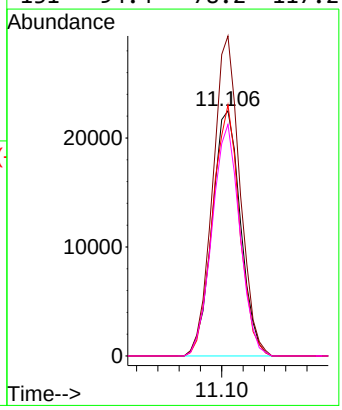


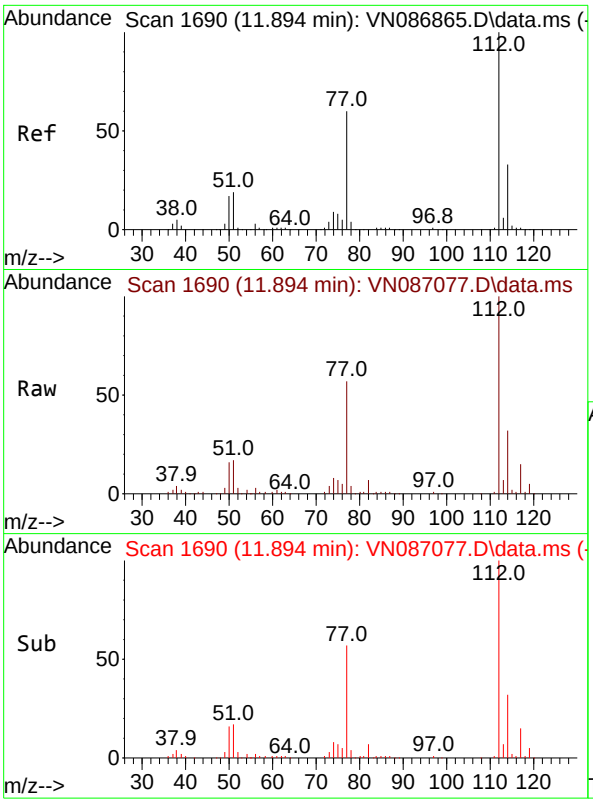


#64
Tetrachloroethene
Concen: 19.753 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:164 Resp: 41643

Ion	Ratio	Lower	Upper
164	100		
166	130.5	101.8	152.8
129	102.4	83.0	124.4
131	94.4	78.2	117.2



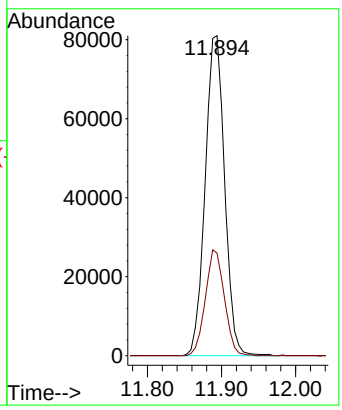


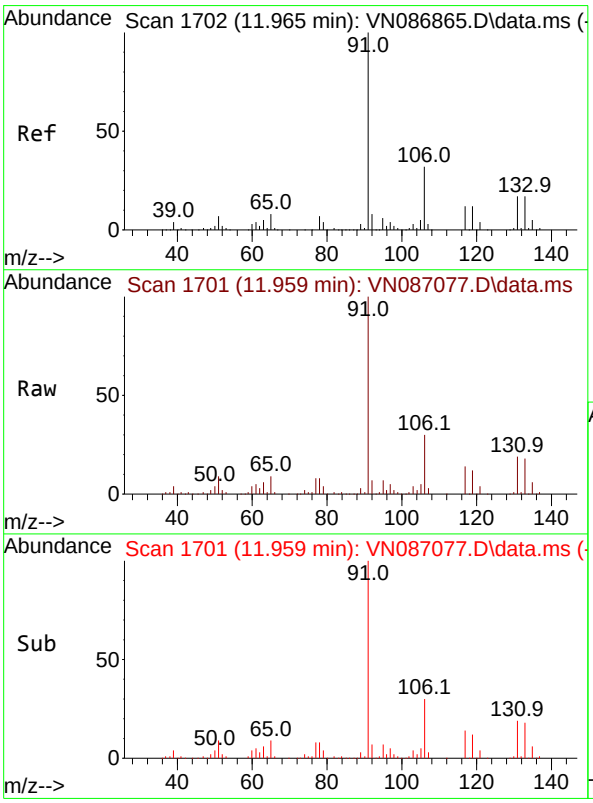
#65
Chlorobenzene
Concen: 20.133 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:112 Resp: 147922

Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.2	39.2

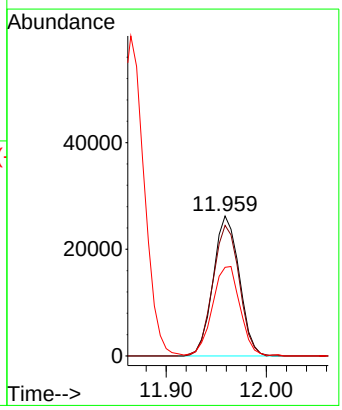


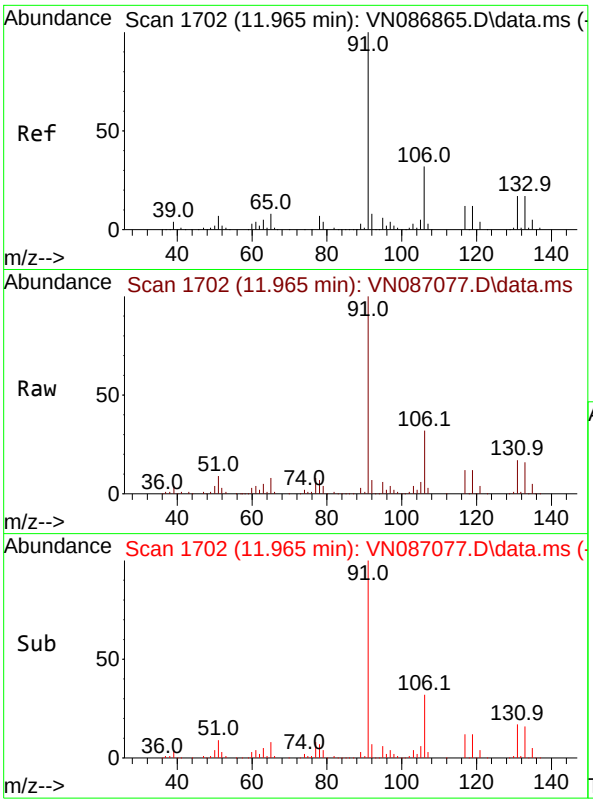


#66
1,1,1,2-Tetrachloroethane
Concen: 20.142 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:131 Resp: 47569

Ion	Ratio	Lower	Upper
131	100		
133	94.8	48.3	144.8
119	67.8	34.0	101.8



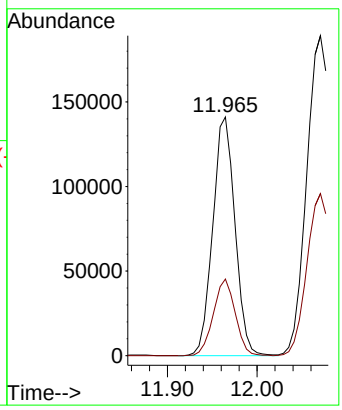


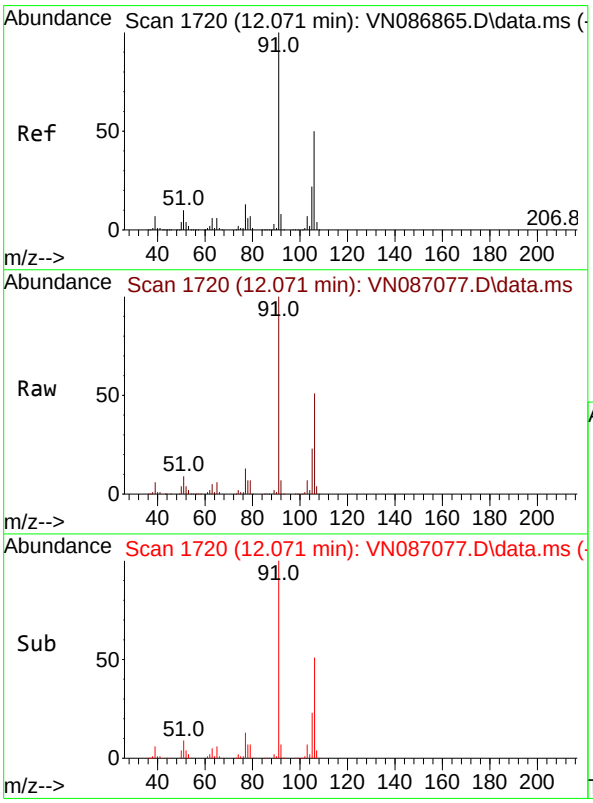
#67
Ethyl Benzene
Concen: 19.171 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 91 Resp: 242612

Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.4	38.2

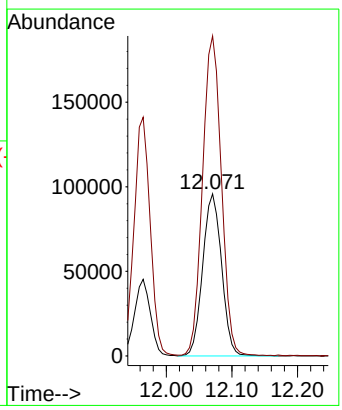


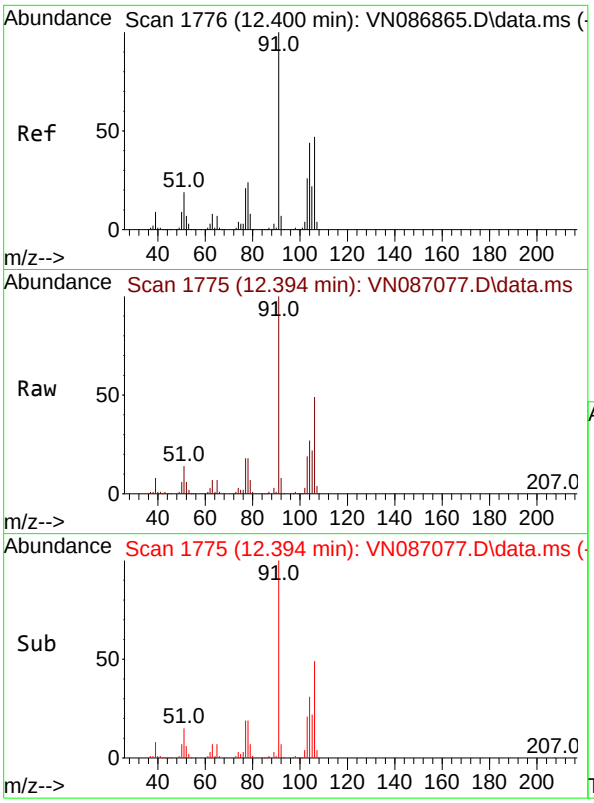


#68
m/p-Xylenes
Concen: 39.672 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:106 Resp: 192188

Ion	Ratio	Lower	Upper
106	100		
91	197.0	159.4	239.0



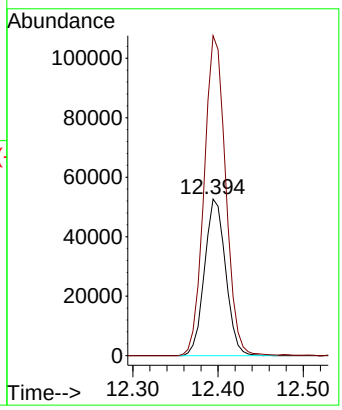


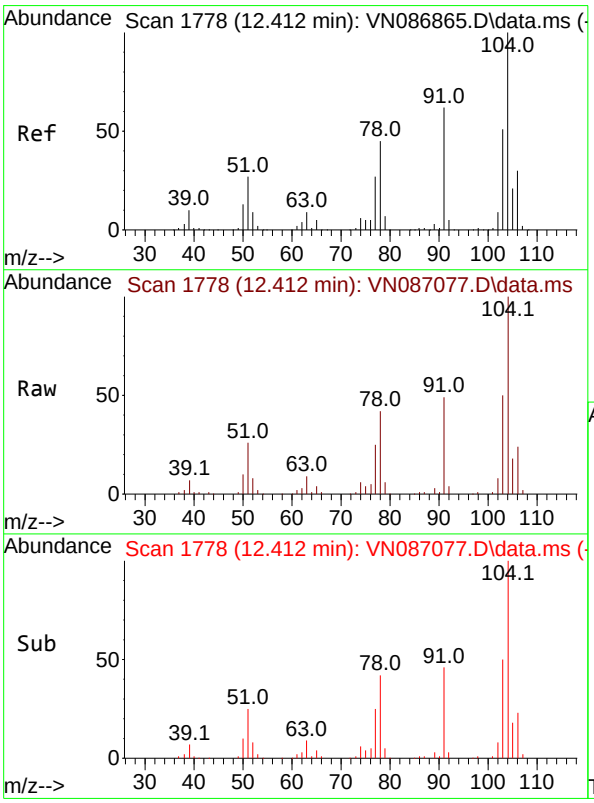
#69
o-Xylene
Concen: 19.562 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:106 Resp: 90763

Ion	Ratio	Lower	Upper
106	100		
91	208.4	106.1	318.1

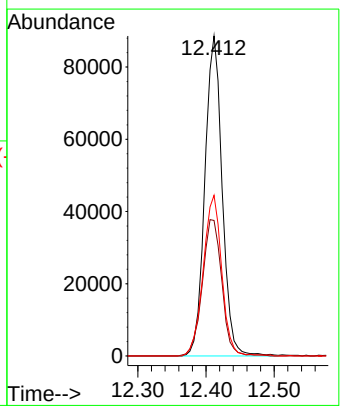


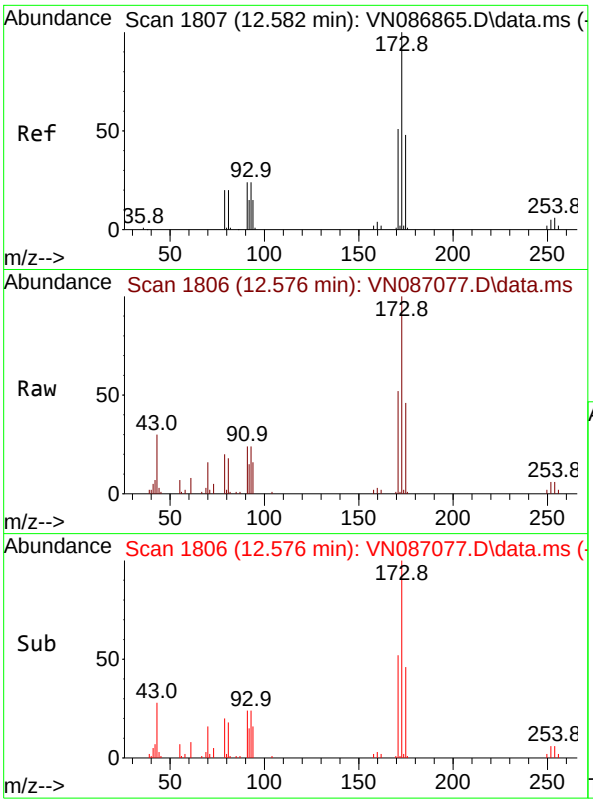


#70
Styrene
Concen: 19.754 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:104 Resp: 156838

Ion	Ratio	Lower	Upper
104	100		
78	47.7	38.5	57.7
103	53.7	43.1	64.7



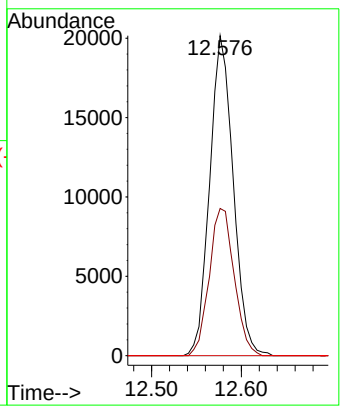


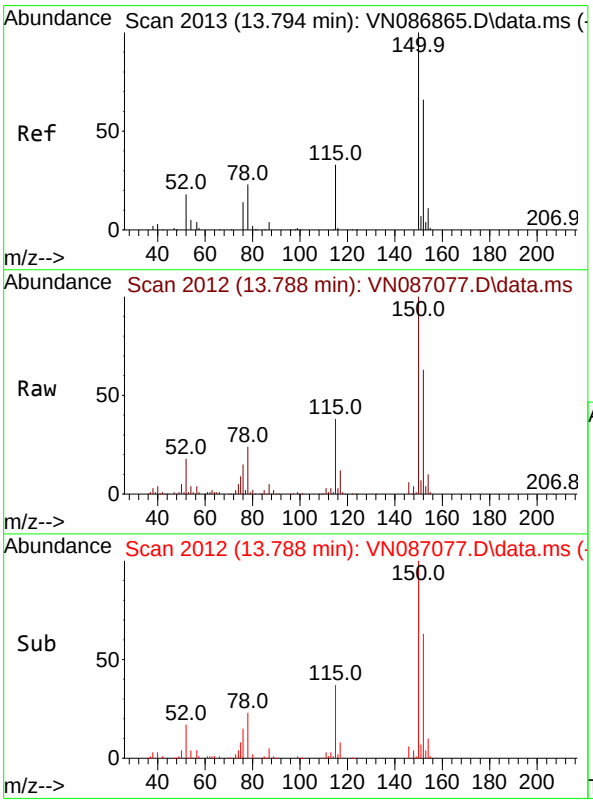
#71
Bromoform
Concen: 20.995 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:173 Resp: 36740

Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.1	72.4
254	0.0	0.0	0.0

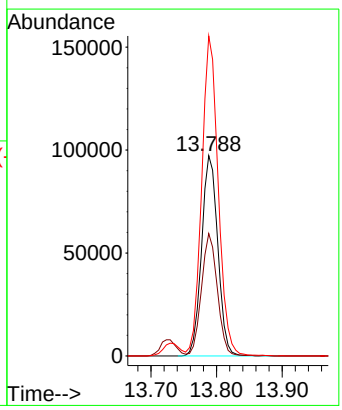


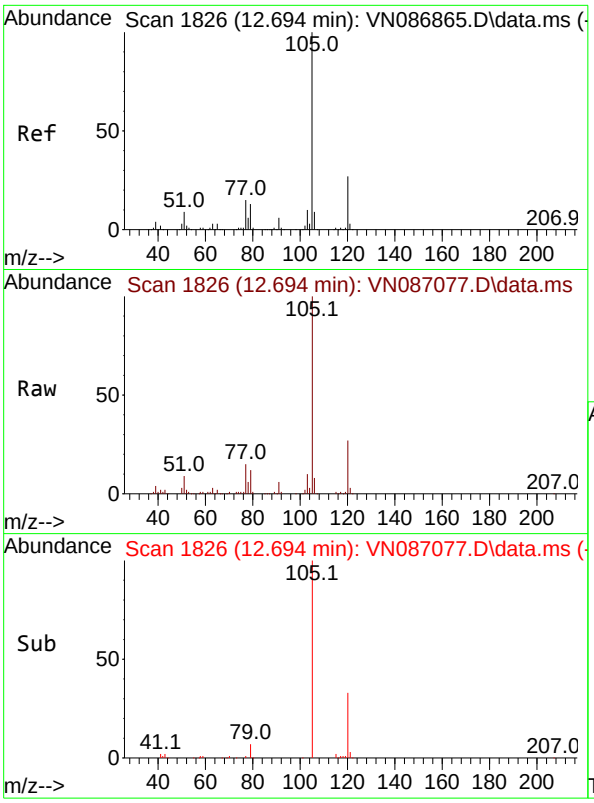


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:152 Resp: 167760

Ion	Ratio	Lower	Upper
152	100		
115	59.8	30.1	90.5
150	162.6	0.0	345.0



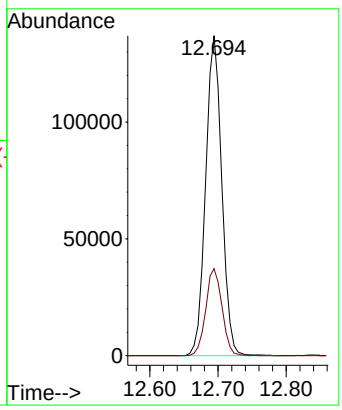


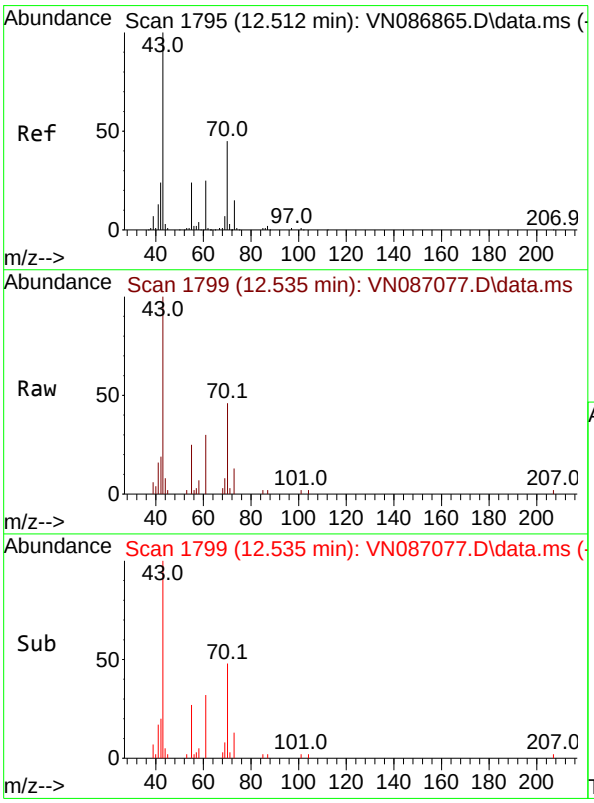
#73
Isopropylbenzene
Concen: 18.418 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:105 Resp: 225091

Ion	Ratio	Lower	Upper
105	100		
120	27.4	13.5	40.4

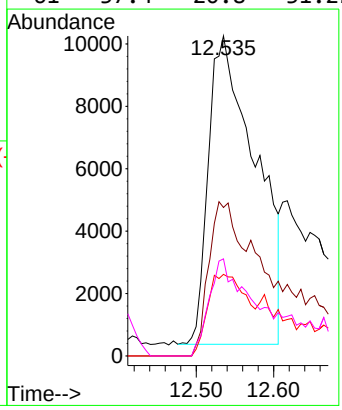


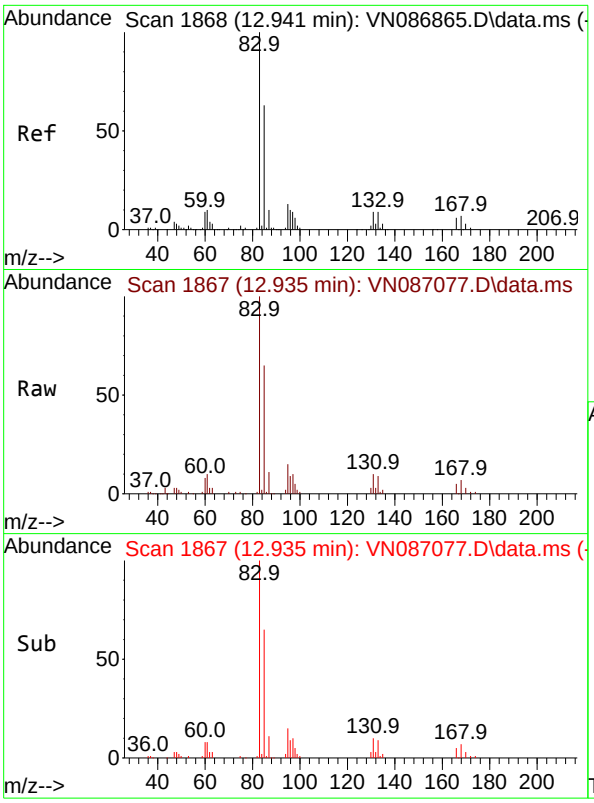


#74
N-amyl acetate
Concen: 9.772 ug/l
RT: 12.535 min Scan# 1799
Delta R.T. 0.023 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 43 Resp: 41734

Ion	Ratio	Lower	Upper
43	100		
70	33.9	37.6	56.4#
55	22.0	19.0	28.6
61	37.4	20.8	31.2#



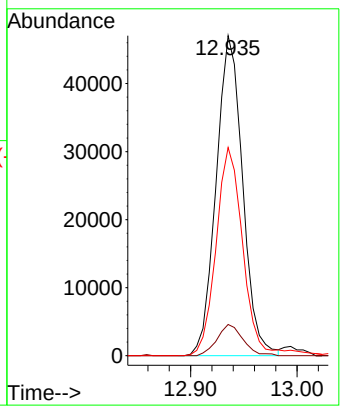


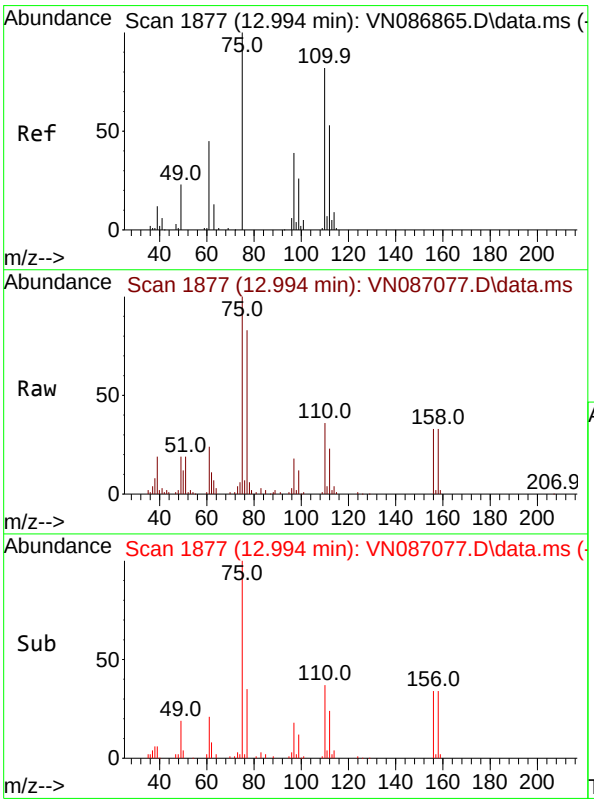
#75
1,1,2,2-Tetrachloroethane
Concen: 19.609 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 83 Resp: 81187

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.9	14.7
85	66.4	32.0	96.0

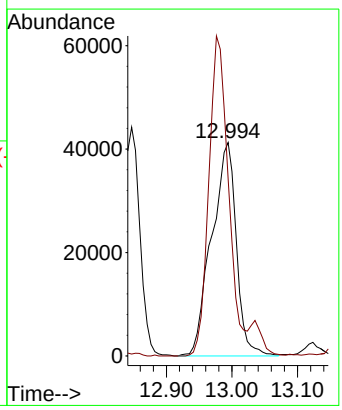


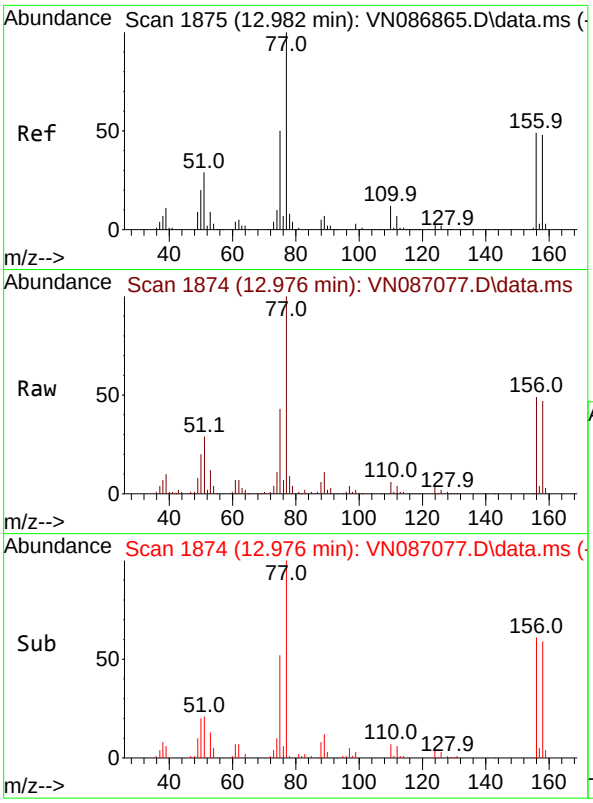


#76
1,2,3-Trichloropropane
Concen: 27.033 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 75 Resp: 107798

Ion	Ratio	Lower	Upper
75	100		
77	119.7	79.3	237.9



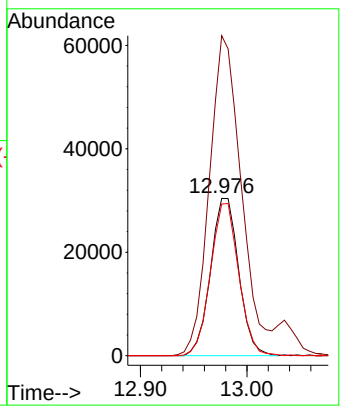


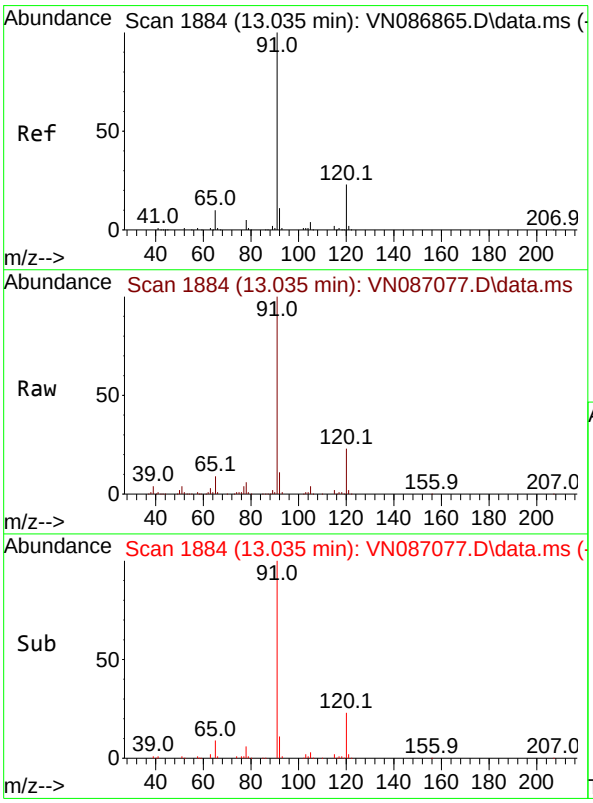
#77
Bromobenzene
Concen: 19.872 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:156 Resp: 55698

Ion	Ratio	Lower	Upper
156	100		
77	231.6	117.7	353.1
158	97.3	48.1	144.4

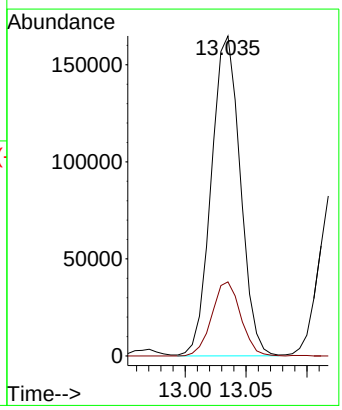


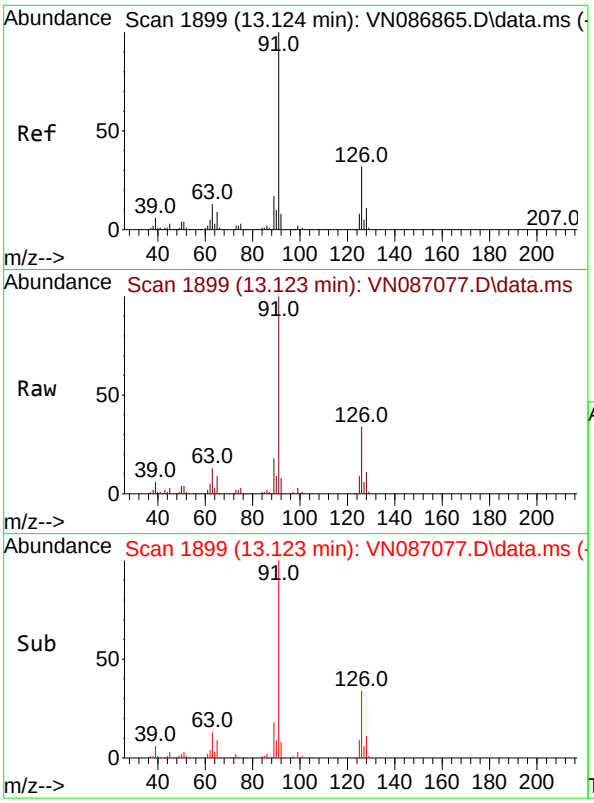


#78
n-propylbenzene
Concen: 18.390 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 91 Resp: 273130

Ion	Ratio	Lower	Upper
91	100		
120	23.0	11.4	34.2



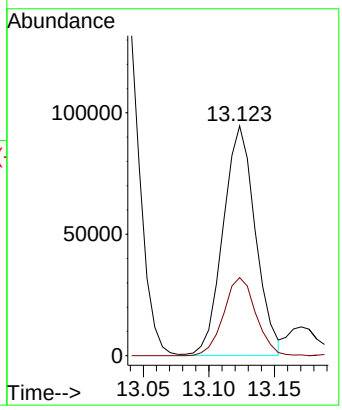


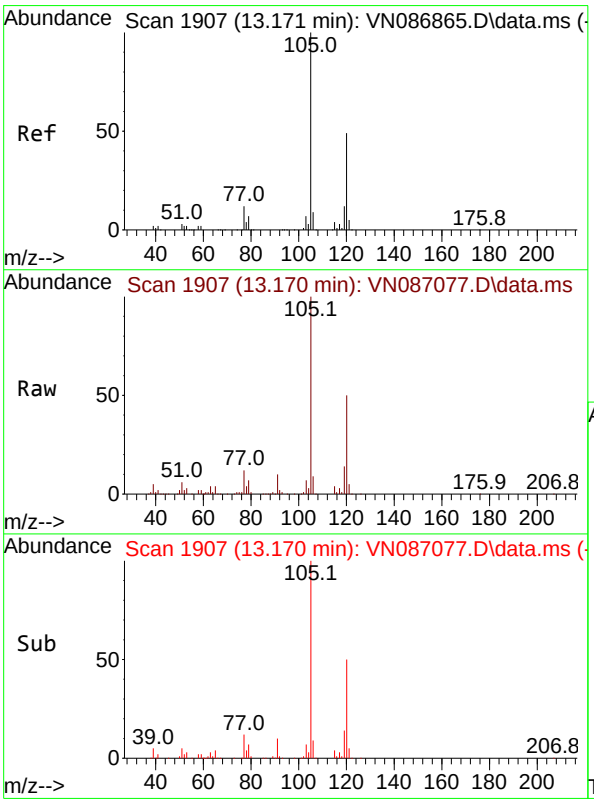
#79
2-Chlorotoluene
Concen: 18.218 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 91 Resp: 162268

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.2	48.5

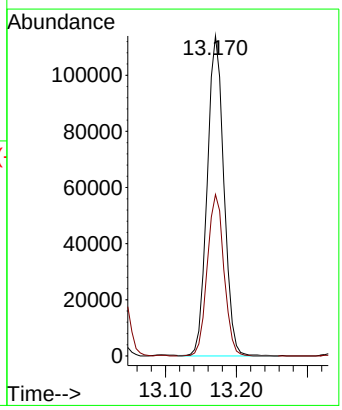


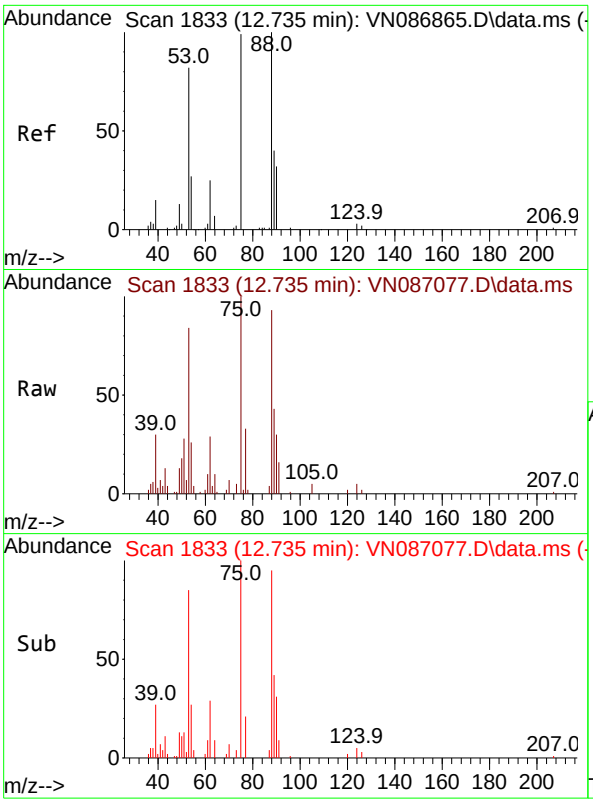


#80
1,3,5-Trimethylbenzene
Concen: 18.421 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:105 Resp: 185876

Ion	Ratio	Lower	Upper
105	100		
120	50.4	24.9	74.6



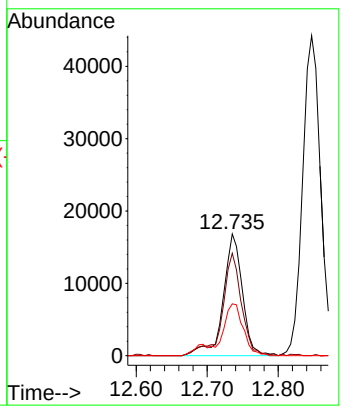


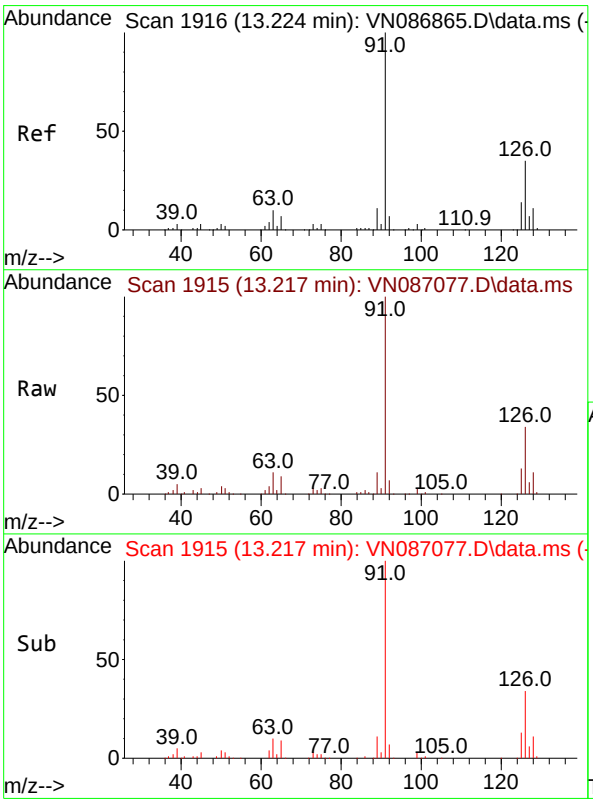
#81
trans-1,4-Dichloro-2-butene
Concen: 18.171 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 75 Resp: 31478

Ion	Ratio	Lower	Upper
75	100		
53	84.1	66.6	99.8
89	41.6	36.7	55.1

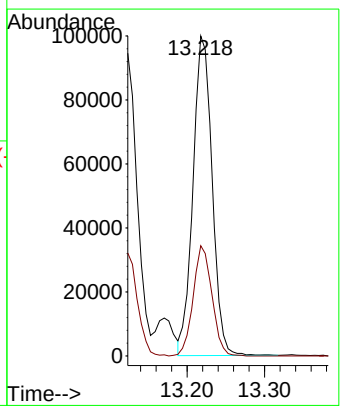


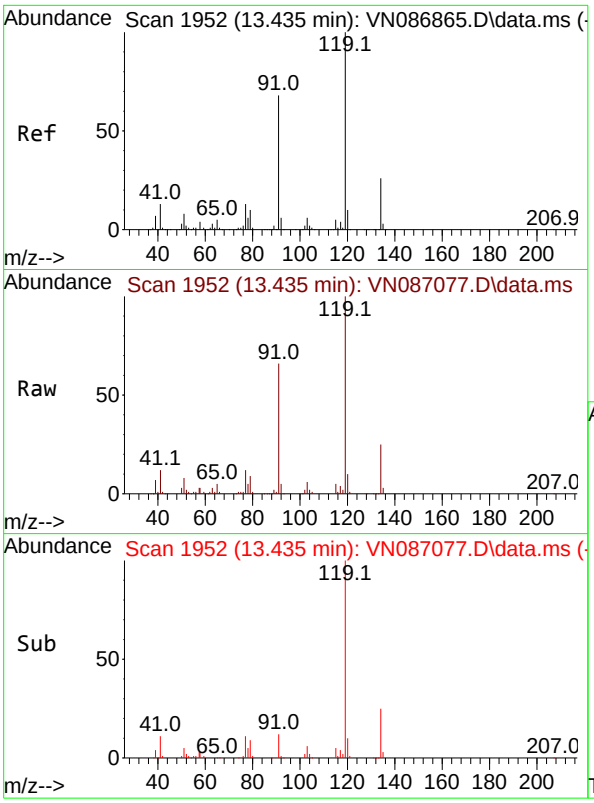


#82
4-Chlorotoluene
Concen: 18.988 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 91 Resp: 171133

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.7	50.1



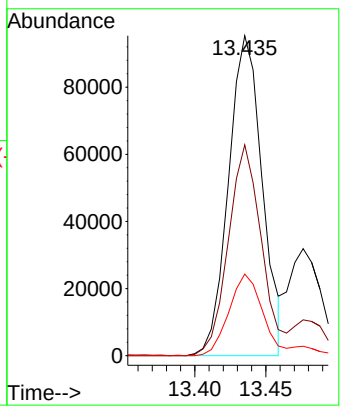


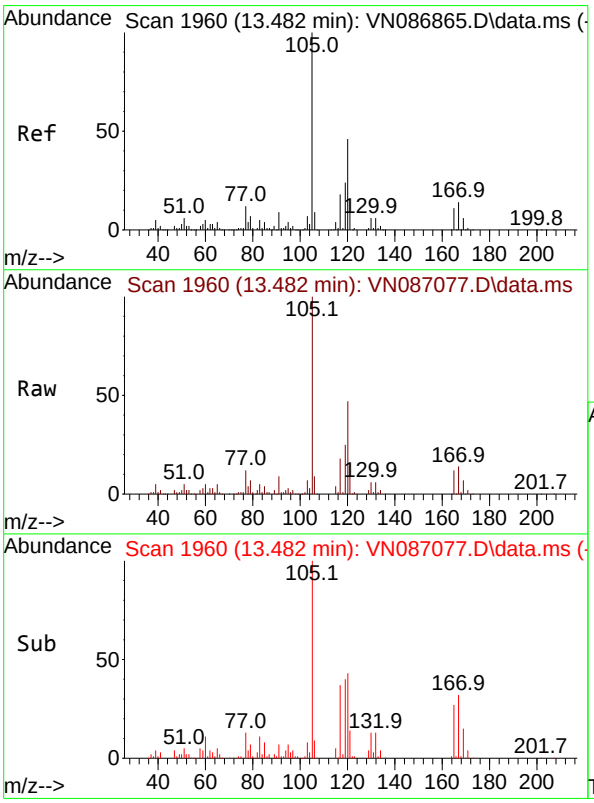
#83
tert-Butylbenzene
Concen: 17.019 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:119 Resp: 157194

Ion	Ratio	Lower	Upper
119	100		
91	65.1	32.1	96.5
134	25.3	13.4	40.1

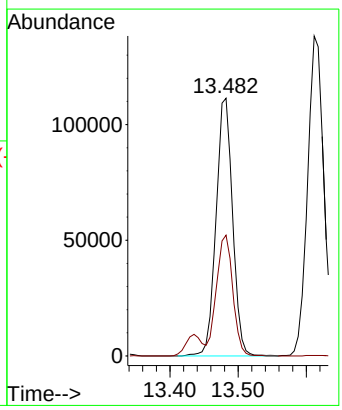


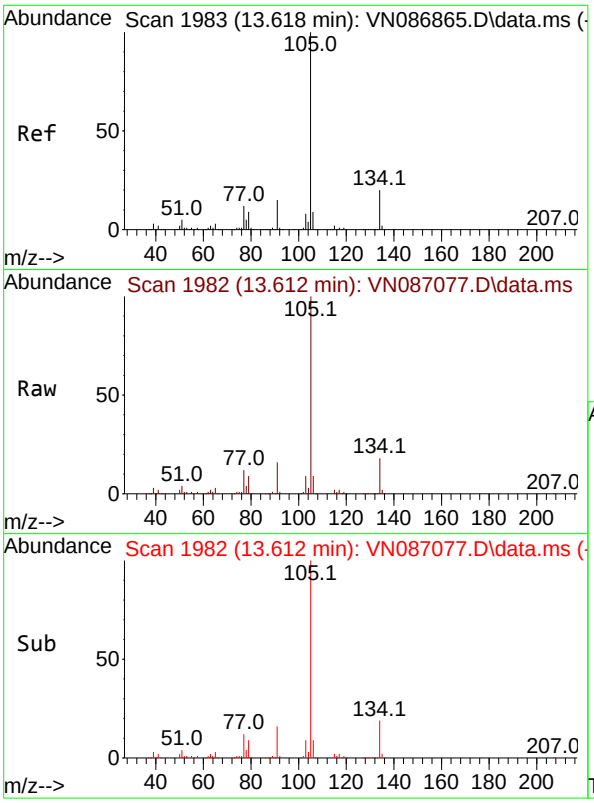


#84
1,2,4-Trimethylbenzene
Concen: 18.618 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:105 Resp: 188377

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.2	69.6



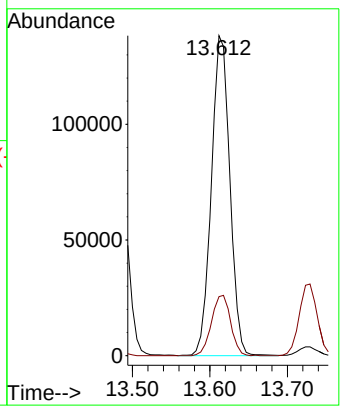


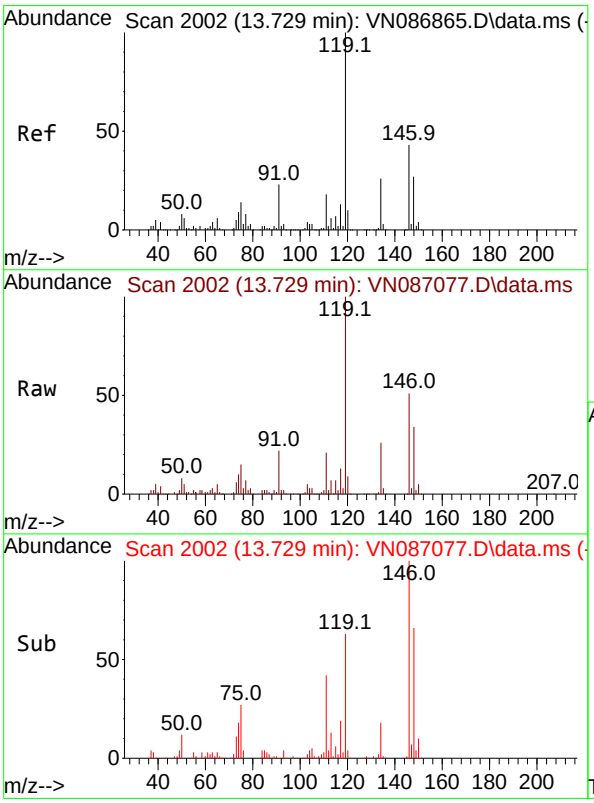
#85
sec-Butylbenzene
Concen: 17.068 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:105 Resp: 228942

Ion	Ratio	Lower	Upper
105	100		
134	19.5	10.0	30.0

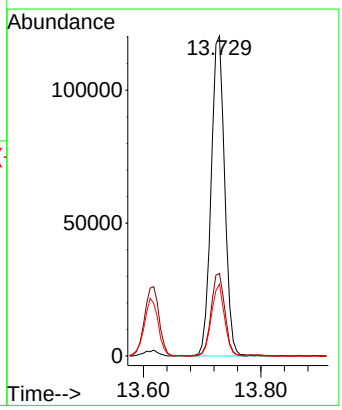


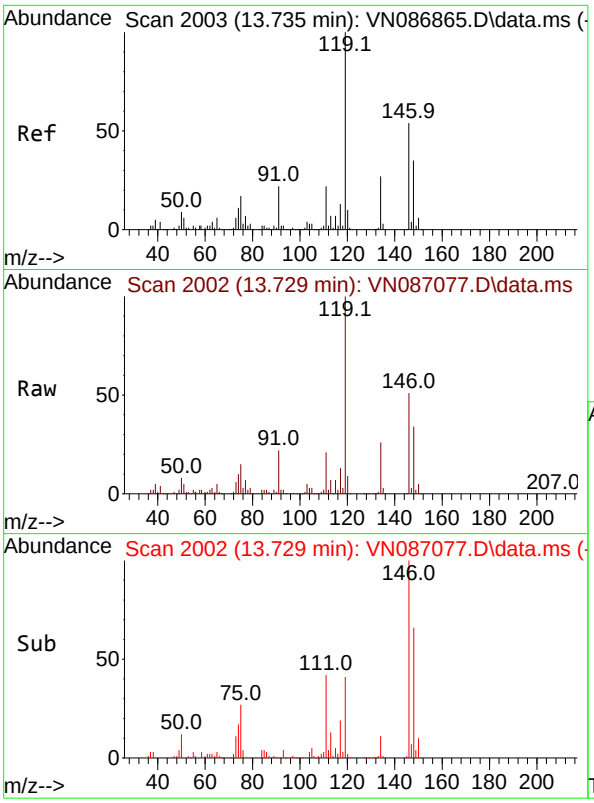


#86
p-Isopropyltoluene
Concen: 17.356 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:119 Resp: 192435

Ion	Ratio	Lower	Upper
119	100		
134	26.1	13.5	40.4
91	21.8	11.5	34.4



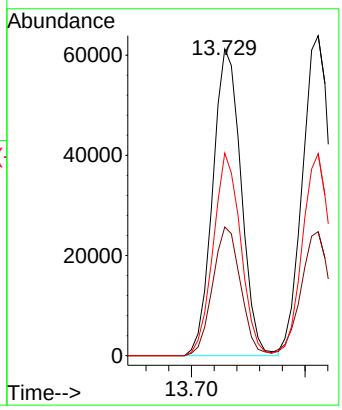


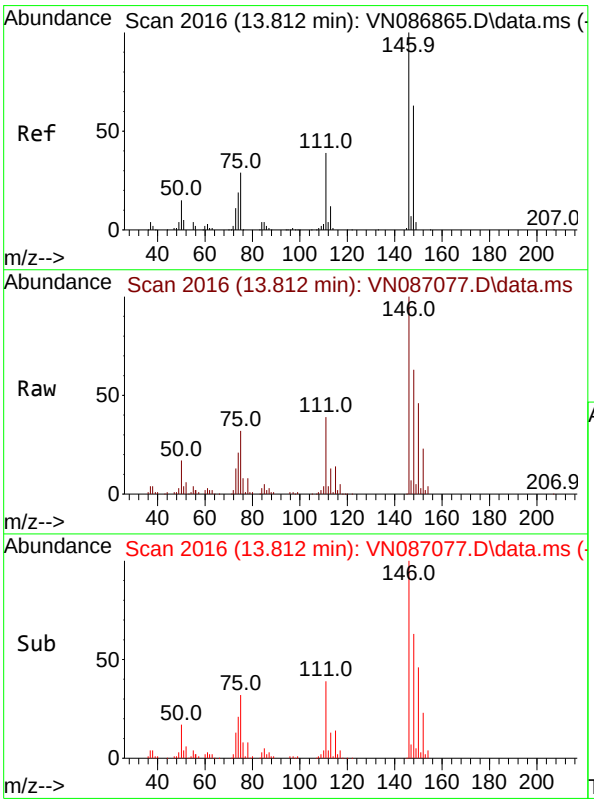
#87
1,3-Dichlorobenzene
Concen: 19.284 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:146 Resp: 106339

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.9	62.8
148	63.9	32.0	96.2

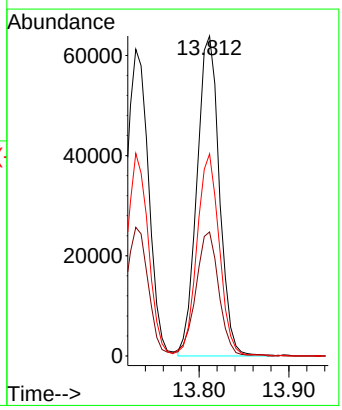


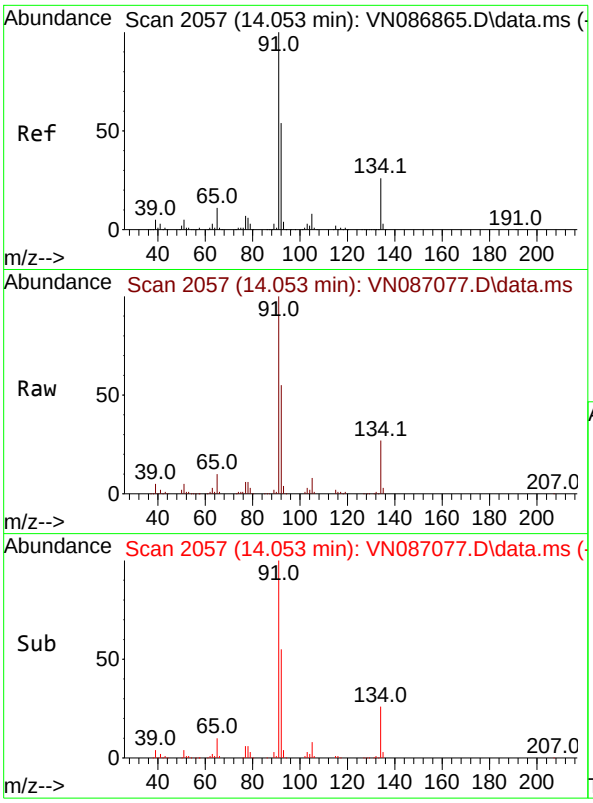


#88
1,4-Dichlorobenzene
Concen: 19.750 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:146 Resp: 111040

Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.9	59.7
148	62.8	31.8	95.4



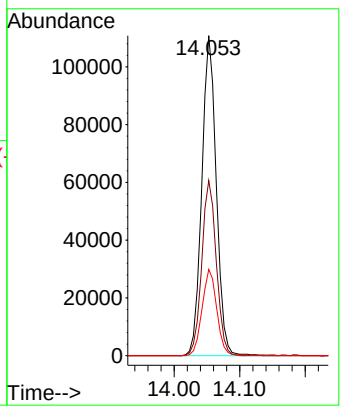


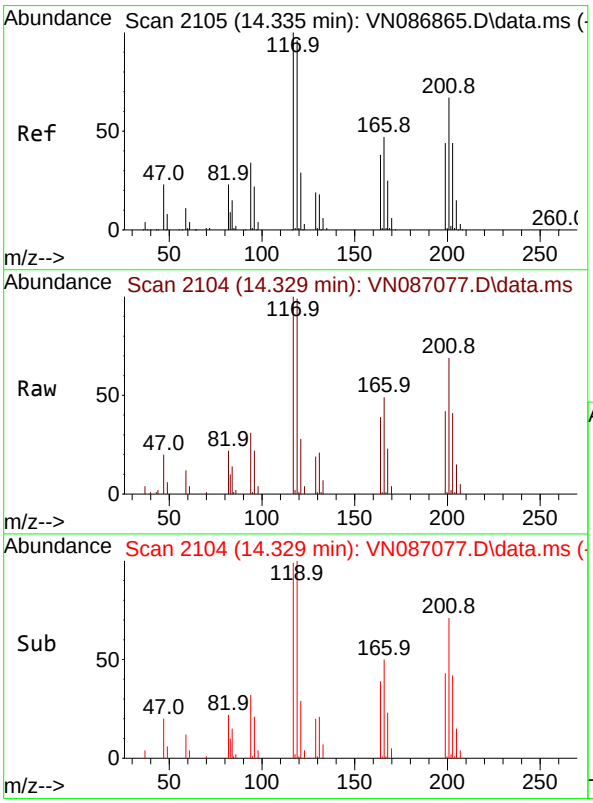
#89
n-Butylbenzene
Concen: 15.886 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion: 91 Resp: 170611

Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.5	82.4
134	27.1	13.0	39.0

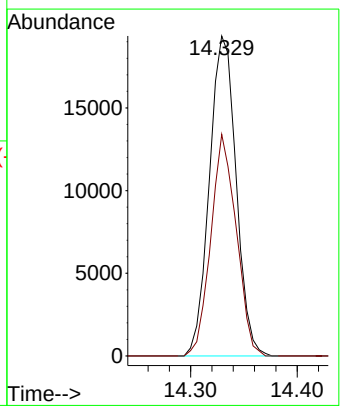


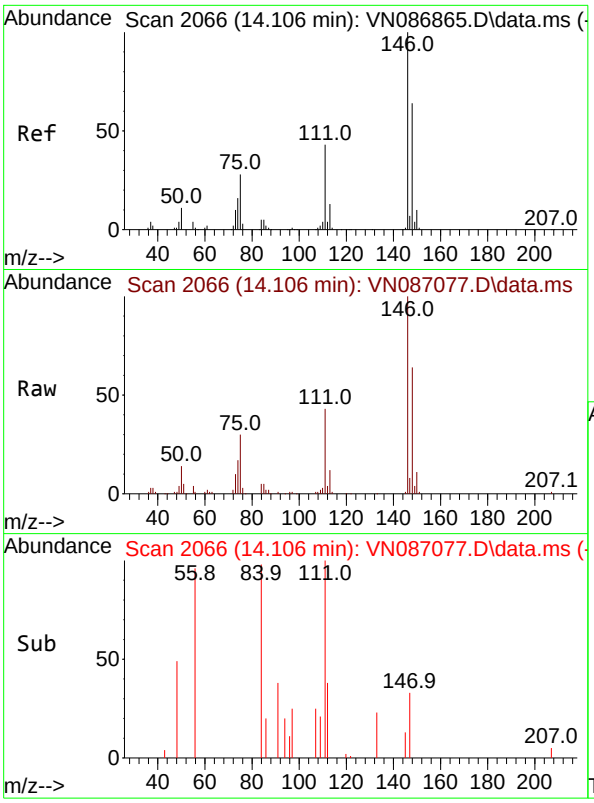


#90
Hexachloroethane
Concen: 17.908 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:117 Resp: 33657

Ion	Ratio	Lower	Upper
117	100		
201	66.0	33.2	99.6



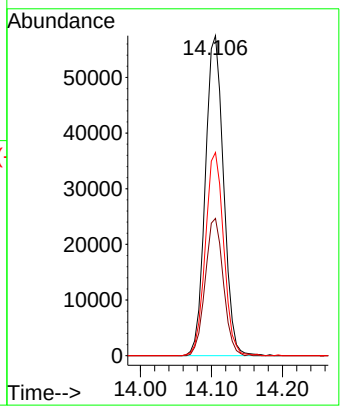


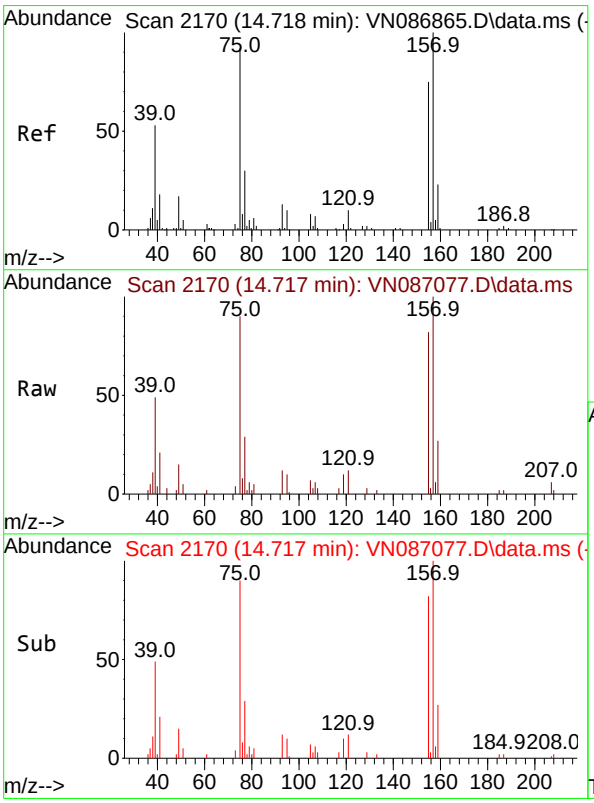
#91
1,2-Dichlorobenzene
Concen: 19.360 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:146 Resp: 102566

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.6	64.6
148	63.9	31.7	95.1

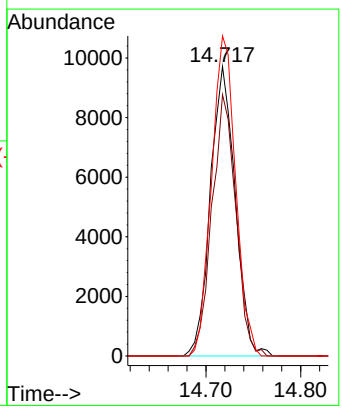


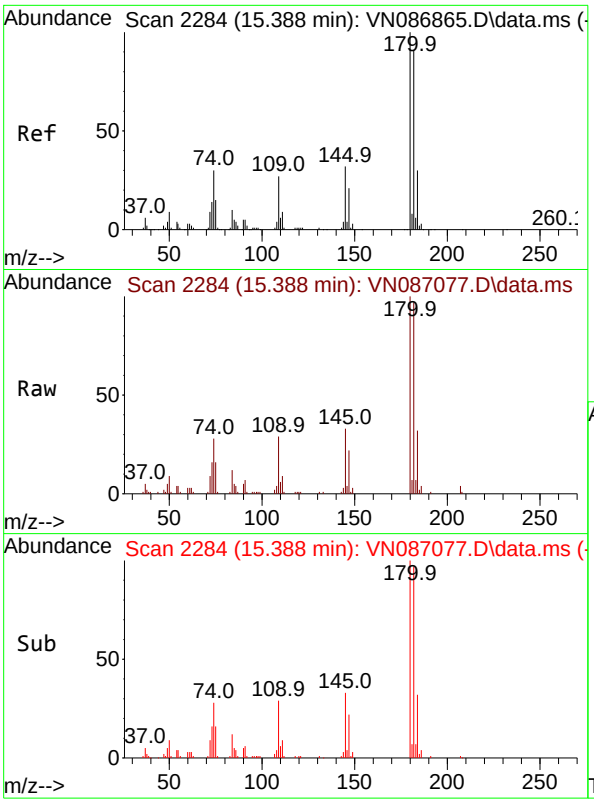


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.834 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion: 75 Resp: 17659

Ion	Ratio	Lower	Upper
75	100		
155	86.7	41.1	123.4
157	107.4	52.7	158.1



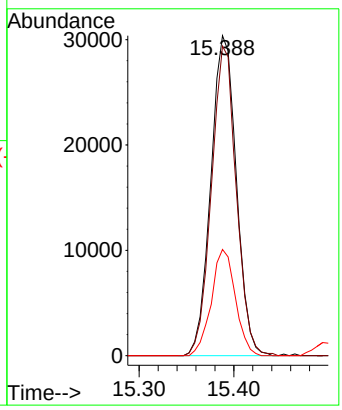


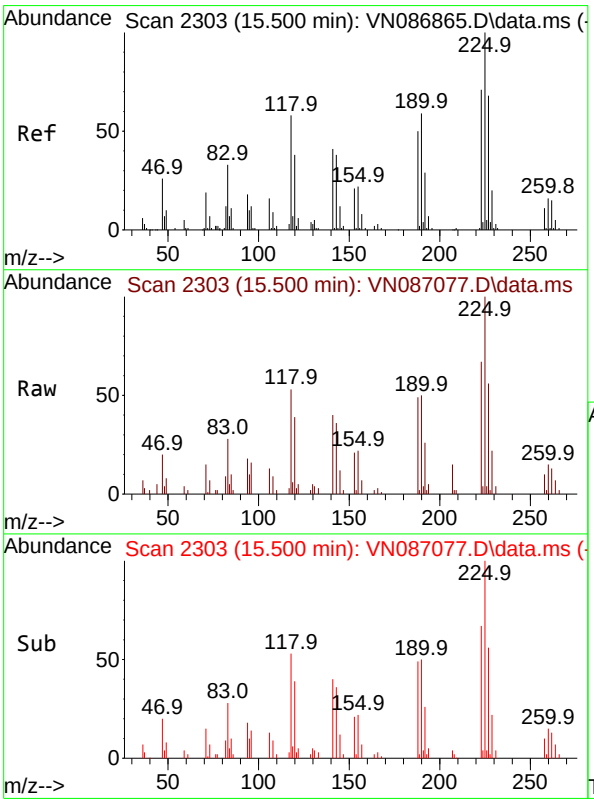
#93
1,2,4-Trichlorobenzene
Concen: 16.781 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:180 Resp: 56770

Ion	Ratio	Lower	Upper
180	100		
182	94.1	46.9	140.7
145	31.3	16.0	47.9

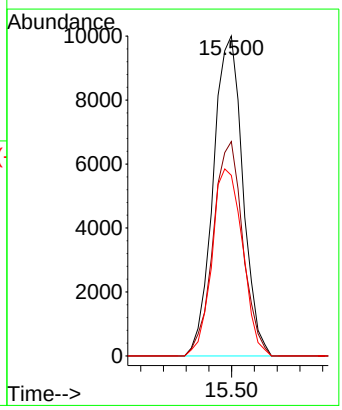


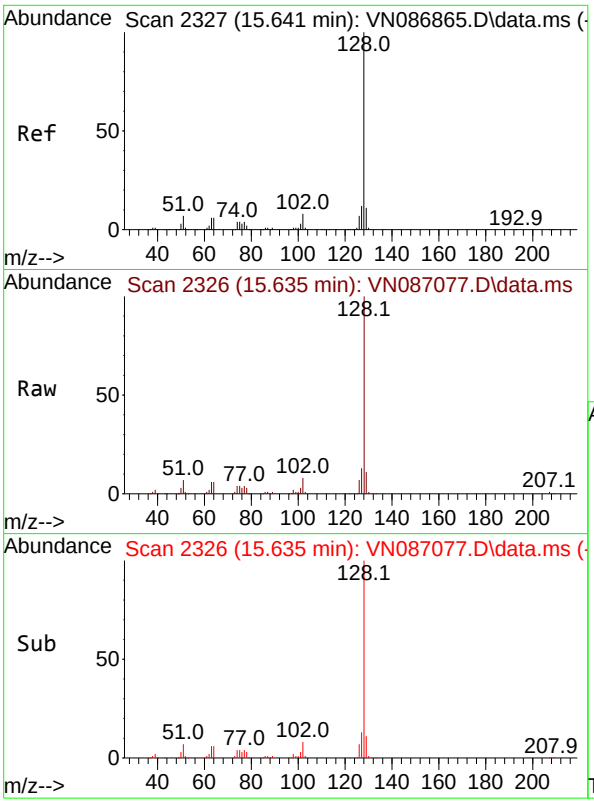


#94
Hexachlorobutadiene
Concen: 14.367 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:225 Resp: 18108

Ion	Ratio	Lower	Upper
225	100		
223	67.2	33.5	100.4
227	60.4	31.1	93.5



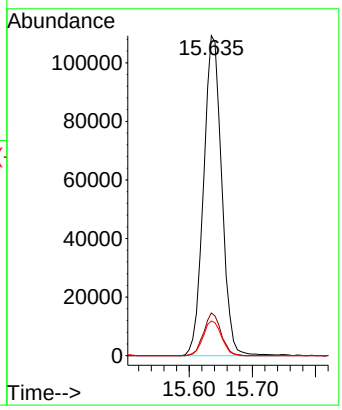


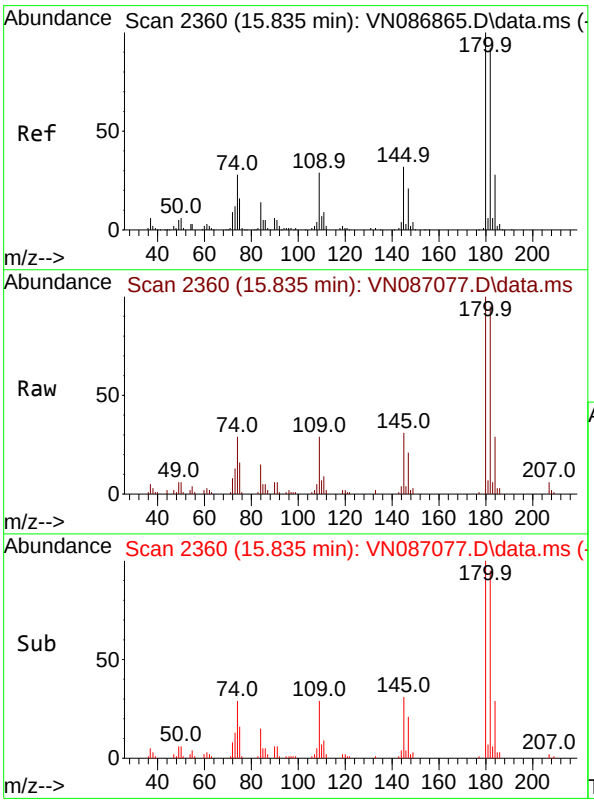
#95
Naphthalene
Concen: 17.306 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Instrument :
MSVOA_N
ClientSampleId :
VN0618WBS01

Tgt Ion:128 Resp: 217923

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	11.0	8.8	13.2

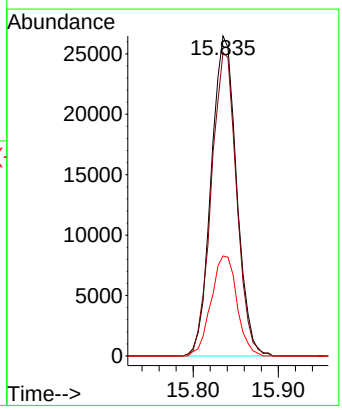




#96
1,2,3-Trichlorobenzene
Concen: 16.270 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087077.D
Acq: 18 Jun 2025 12:07

Tgt Ion:180 Resp: 54686

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.0	141.0
145	31.8	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	189111	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	343303	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	303826	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	154355	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	129912	51.308	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.620%			
35) Dibromofluoromethane	8.171	113	113753	55.912	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.820%			
50) Toluene-d8	10.565	98	416207	51.677	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.360%			
62) 4-Bromofluorobenzene	12.847	95	156337	52.246	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	100528	53.315	ug/l	100
3) Chloromethane	2.395	50	110773	45.495	ug/l	100
4) Vinyl Chloride	2.554	62	140290	55.855	ug/l	99
5) Bromomethane	2.989	94	72744	51.755	ug/l	98
6) Chloroethane	3.153	64	89505	55.168	ug/l	100
7) Trichlorofluoromethane	3.530	101	181514	55.313	ug/l	100
8) Diethyl Ether	3.983	74	76418	53.447	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.400	101	112924	54.772	ug/l	98
10) Methyl Iodide	4.612	142	90457	33.845	ug/l	96
11) Tert butyl alcohol	5.536	59	155361	226.134	ug/l	99
12) 1,1-Dichloroethene	4.371	96	114974	54.623	ug/l	90
13) Acrolein	4.200	56	76088	349.879	ug/l	98
14) Allyl chloride	5.047	41	163864	46.942	ug/l	95
15) Acrylonitrile	5.736	53	400826	249.606	ug/l	99
16) Acetone	4.447	43	306869	228.541	ug/l	99
17) Carbon Disulfide	4.742	76	328770	56.468	ug/l	100
18) Methyl Acetate	5.042	43	201717	51.551	ug/l	97
19) Methyl tert-butyl Ether	5.812	73	390655	51.259	ug/l	97
20) Methylene Chloride	5.295	84	129490	51.511	ug/l	93
21) trans-1,2-Dichloroethene	5.806	96	122590	52.348	ug/l	98
22) Diisopropyl ether	6.689	45	362665	49.286	ug/l	97
23) Vinyl Acetate	6.618	43	1521870	244.793	ug/l	97
24) 1,1-Dichloroethane	6.589	63	222185	52.469	ug/l	98
25) 2-Butanone	7.494	43	504996	231.377	ug/l	96
26) 2,2-Dichloropropane	7.500	77	157062	47.682	ug/l	97
27) cis-1,2-Dichloroethene	7.500	96	147877	52.800	ug/l	96
28) Bromochloromethane	7.824	49	96515	46.356	ug/l	93
29) Tetrahydrofuran	7.847	42	334447	235.230	ug/l	96
30) Chloroform	7.977	83	219880	51.995	ug/l	98
31) Cyclohexane	8.265	56	195195	47.532	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	185396	51.545	ug/l	98
36) 1,1-Dichloropropene	8.383	75	162876	53.726	ug/l	99
37) Ethyl Acetate	7.571	43	187232	48.515	ug/l	99
38) Carbon Tetrachloride	8.371	117	159437	53.568	ug/l	97
39) Methylcyclohexane	9.606	83	186032	44.790	ug/l	96
40) Benzene	8.612	78	517732	52.225	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.788	41	99657	45.981 ug/l	92
42) 1,2-Dichloroethane	8.677	62	154951	51.533 ug/l	99
43) Isopropyl Acetate	8.694	43	287907	46.481 ug/l	96
44) Trichloroethene	9.353	130	124543	52.982 ug/l	96
45) 1,2-Dichloropropane	9.624	63	125302	51.954 ug/l	100
46) Dibromomethane	9.712	93	86447	53.963 ug/l	99
47) Bromodichloromethane	9.888	83	171216	51.947 ug/l	98
48) Methyl methacrylate	9.682	41	133232	46.733 ug/l	93
49) 1,4-Dioxane	9.706	88	51690	996.635 ug/l #	97
51) 4-Methyl-2-Pentanone	10.447	43	917017	245.922 ug/l	98
52) Toluene	10.629	92	322535	53.238 ug/l	99
53) t-1,3-Dichloropropene	10.835	75	189556	51.432 ug/l	95
54) cis-1,3-Dichloropropene	10.312	75	206140	52.274 ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	122692	52.632 ug/l	99
56) Ethyl methacrylate	10.877	69	200286	53.942 ug/l	94
57) 1,3-Dichloropropane	11.165	76	211513	52.304 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	521933	235.679 ug/l	99
59) 2-Hexanone	11.200	43	614814	255.969 ug/l	93
60) Dibromochloromethane	11.359	129	133807	55.092 ug/l	100
61) 1,2-Dibromoethane	11.471	107	125069	52.343 ug/l	99
64) Tetrachloroethene	11.106	164	98311	51.129 ug/l	97
65) Chlorobenzene	11.888	112	350202	52.261 ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	113531	52.707 ug/l	99
67) Ethyl Benzene	11.965	91	589188	51.046 ug/l	99
68) m/p-Xylenes	12.071	106	468010	105.923 ug/l	97
69) o-Xylene	12.400	106	225888	53.380 ug/l	95
70) Styrene	12.412	104	386227	53.338 ug/l	99
71) Bromoform	12.576	173	89180	55.877 ug/l #	100
73) Isopropylbenzene	12.694	105	552495	49.133 ug/l	100
74) N-amyl acetate	12.512	43	164161	41.777 ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.935	83	192951	50.650 ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	251119	68.442 ug/l	72
77) Bromobenzene	12.976	156	135755	52.642 ug/l	96
78) n-propylbenzene	13.035	91	650467	47.599 ug/l	99
79) 2-Chlorotoluene	13.123	91	393256	47.985 ug/l	96
80) 1,3,5-Trimethylbenzene	13.170	105	452283	48.716 ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	71058	44.581 ug/l	94
82) 4-Chlorotoluene	13.218	91	412348	49.727 ug/l	99
83) tert-Butylbenzene	13.435	119	387224	45.565 ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	463050	49.739 ug/l	100
85) sec-Butylbenzene	13.612	105	551168	44.660 ug/l	99
86) p-Isopropyltoluene	13.723	119	468408	45.914 ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	257823	50.814 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	265204	51.268 ug/l	99
89) n-Butylbenzene	14.053	91	406621	41.149 ug/l	100
90) Hexachloroethane	14.329	117	84025	48.590 ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	250075	51.301 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	41858	45.944 ug/l	95
93) 1,2,4-Trichlorobenzene	15.388	180	135052	43.387 ug/l	99
94) Hexachlorobutadiene	15.494	225	41719	35.974 ug/l	99
95) Naphthalene	15.635	128	550393	47.504 ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	132061	42.701 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

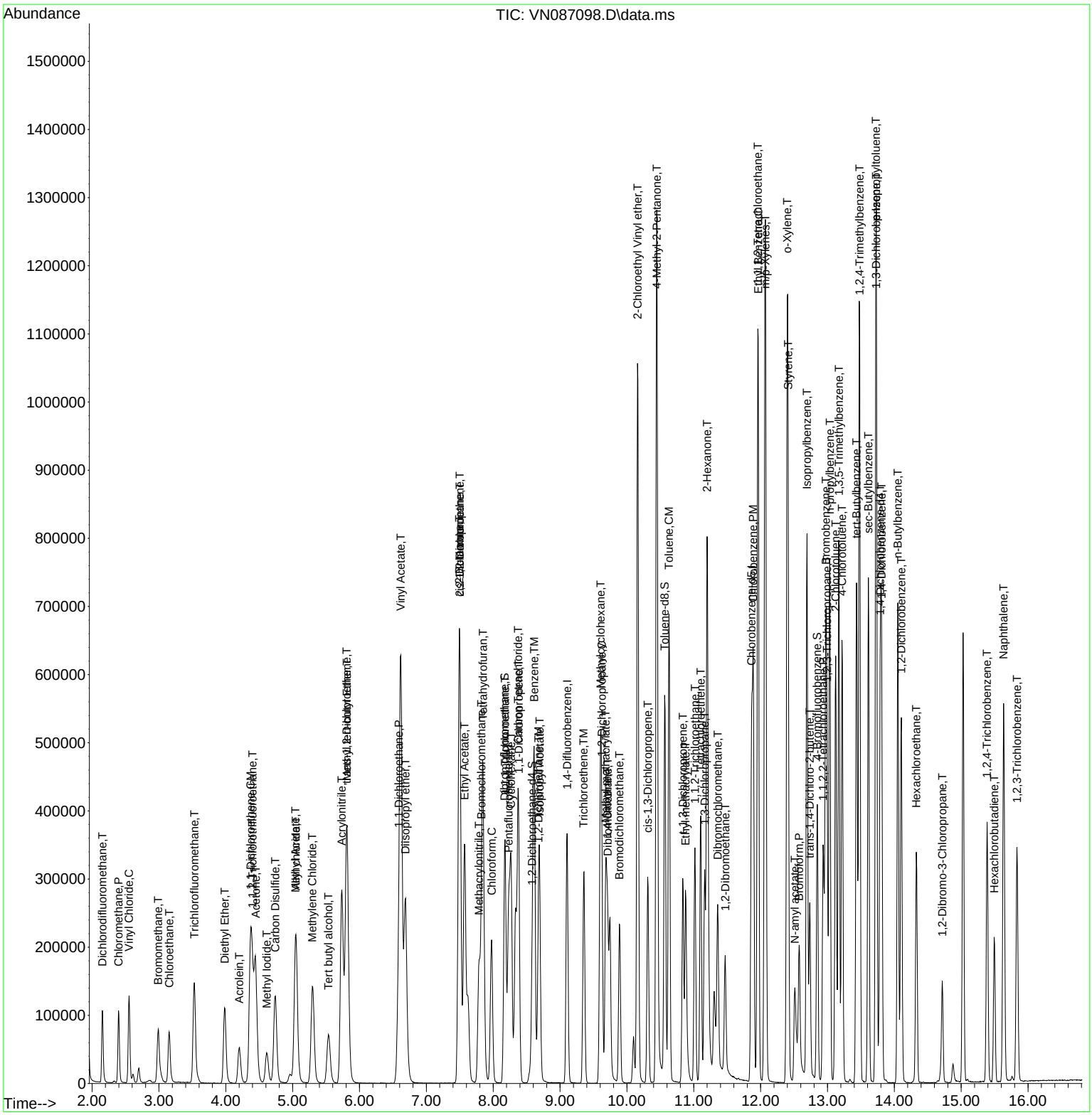
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

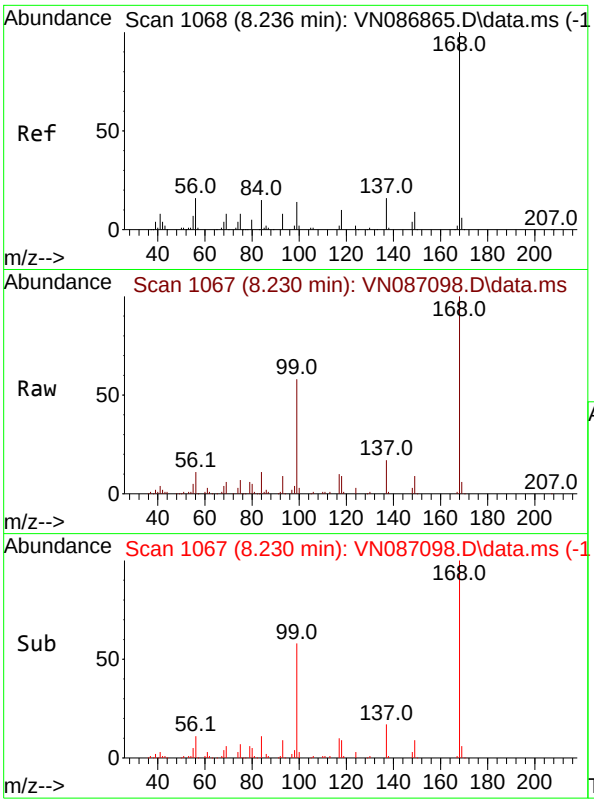
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061825\
Data File : VN087098.D
Acq On : 18 Jun 2025 19:42
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jun 19 01:34:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



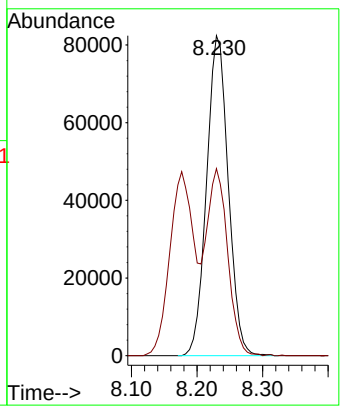


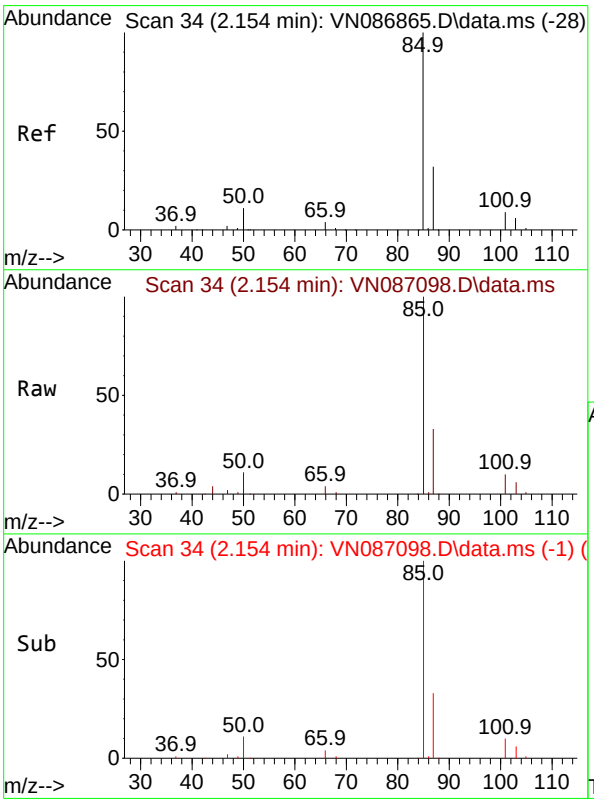
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 189111

Ion	Ratio	Lower	Upper
168	100		
99	58.5	49.1	73.7

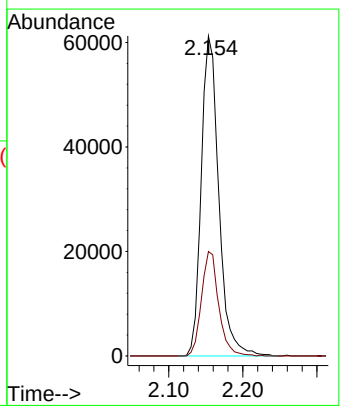


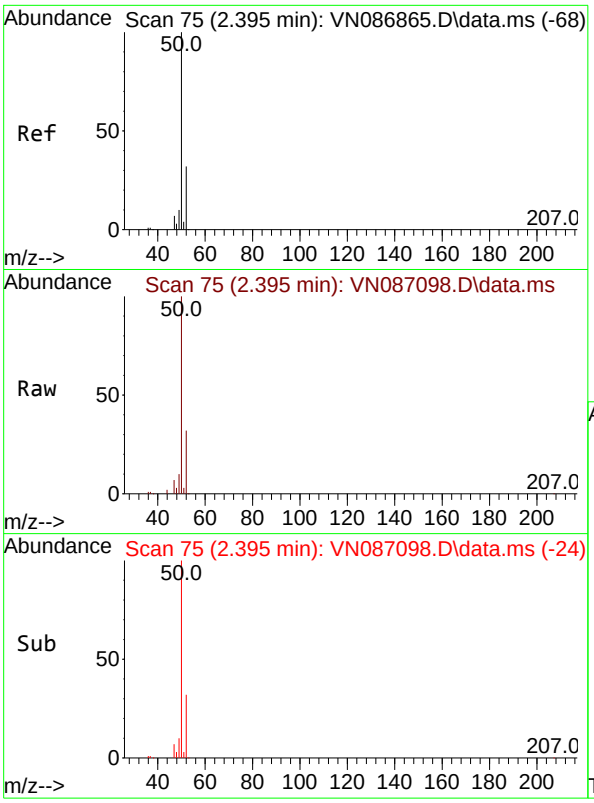


#2
Dichlorodifluoromethane
Concen: 53.315 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 85 Resp: 100528

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.2	48.6



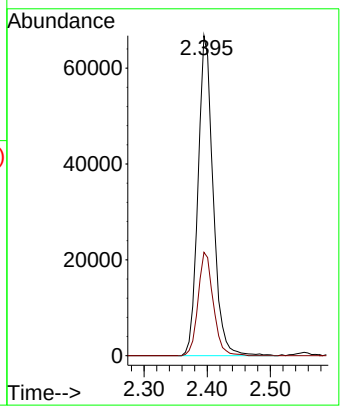


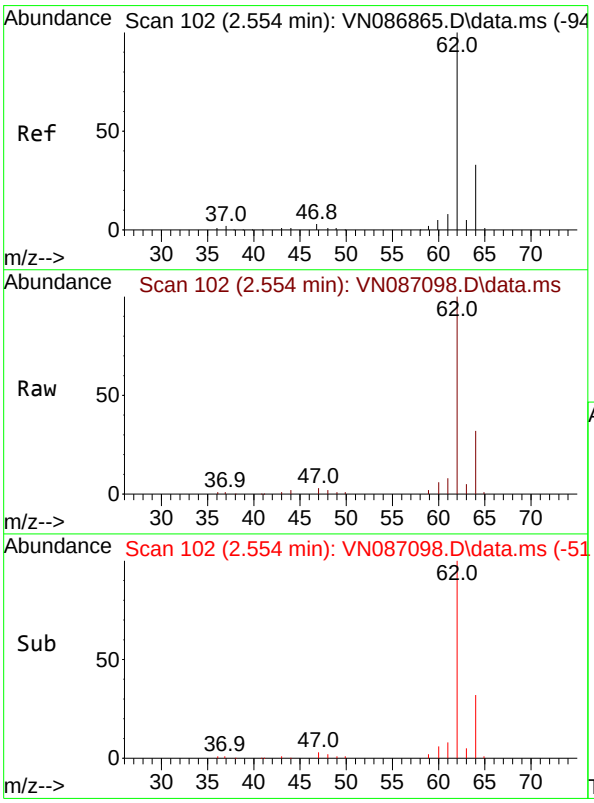
#3
Chloromethane
Concen: 45.495 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 110773

Ion	Ratio	Lower	Upper
50	100		
52	32.3	25.7	38.5

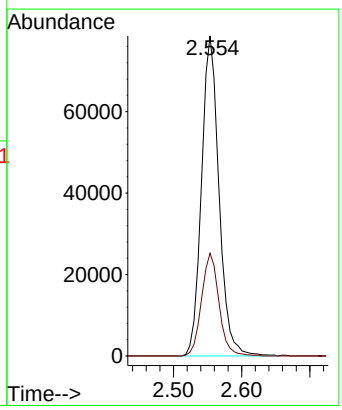


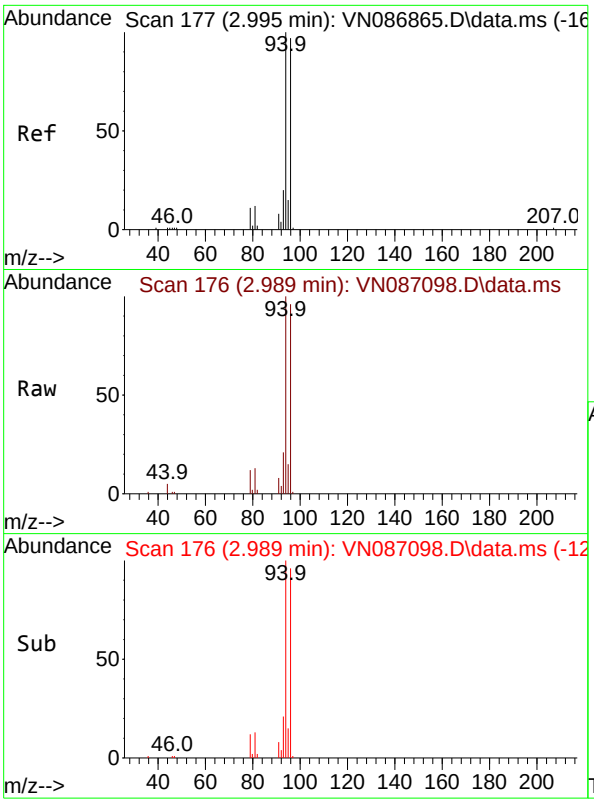


#4
Vinyl Chloride
Concen: 55.855 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 62 Resp: 140290

Ion	Ratio	Lower	Upper
62	100		
64	32.1	26.0	39.0



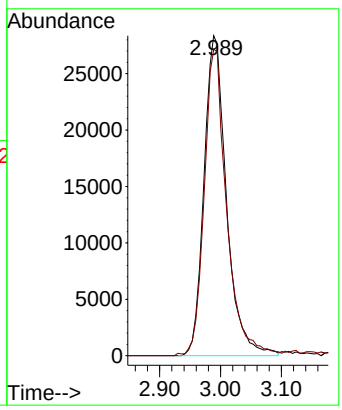


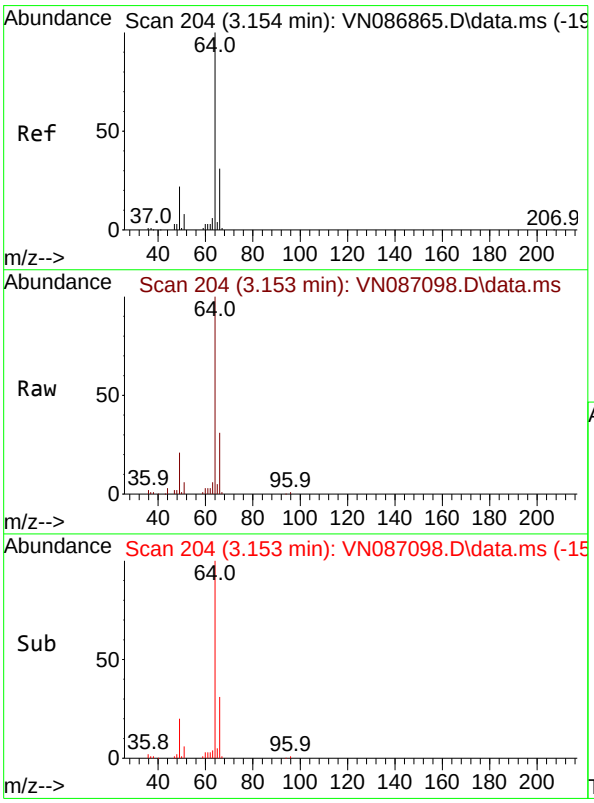
#5
Bromomethane
Concen: 51.755 ug/l
RT: 2.989 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 72744

Ion	Ratio	Lower	Upper
94	100		
96	95.0	77.9	116.9

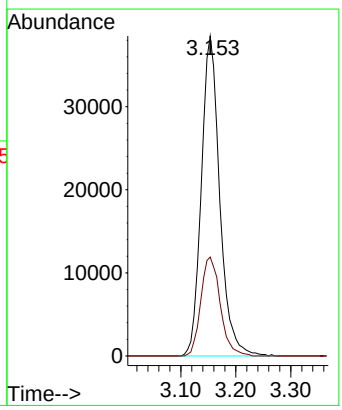


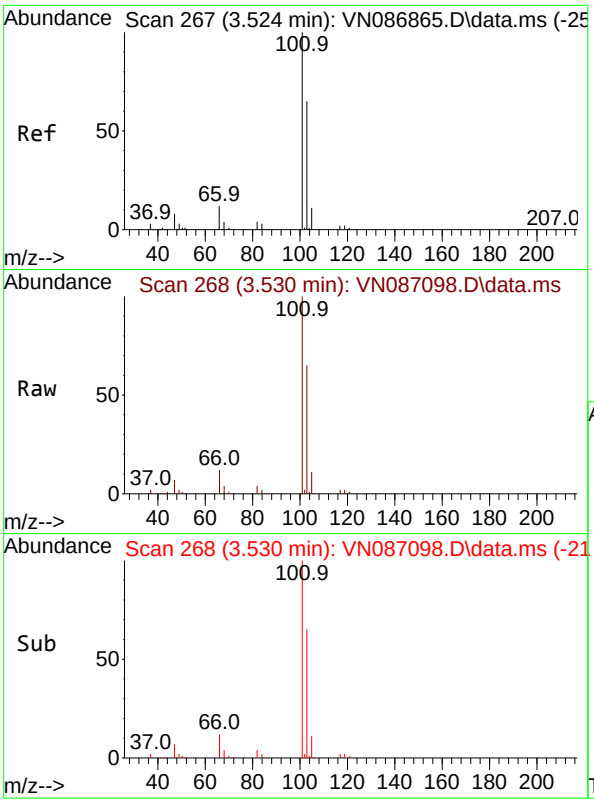


#6
Chloroethane
Concen: 55.168 ug/l
RT: 3.153 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 64 Resp: 89505

Ion	Ratio	Lower	Upper
64	100		
66	30.9	24.6	36.8



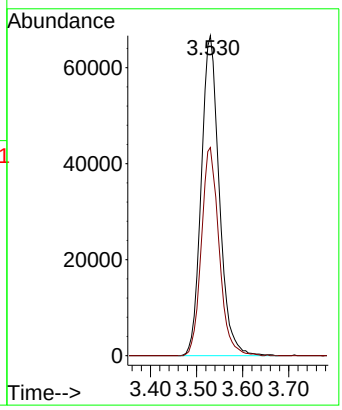


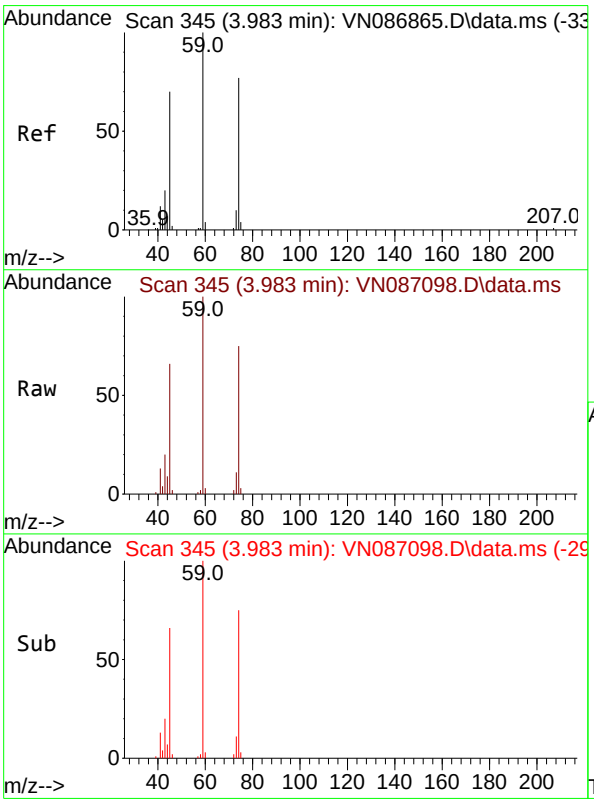
#7
Trichlorofluoromethane
Concen: 55.313 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 181514

Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.2	78.2

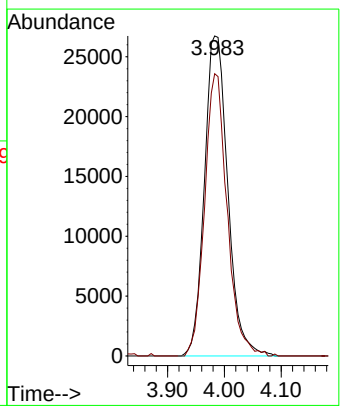


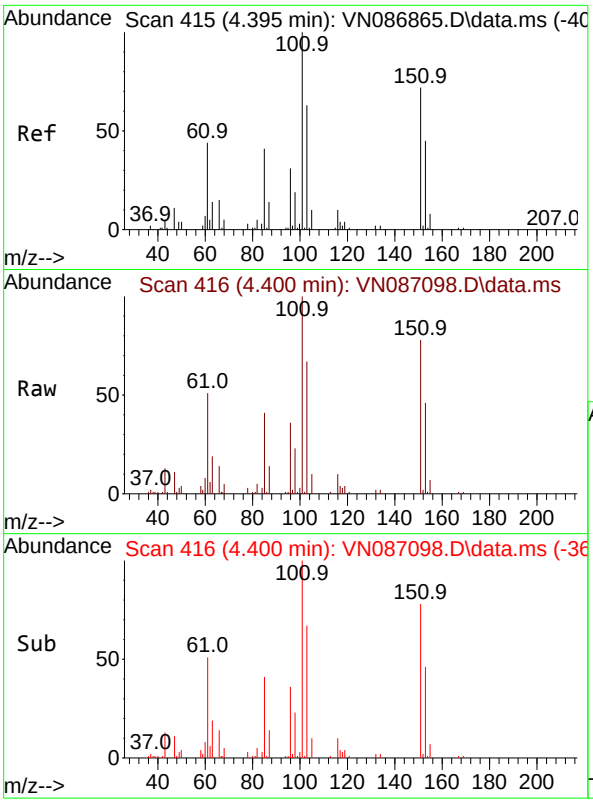


#8
Diethyl Ether
Concen: 53.447 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 74 Resp: 76418

Ion	Ratio	Lower	Upper
74	100		
45	84.8	45.5	136.5



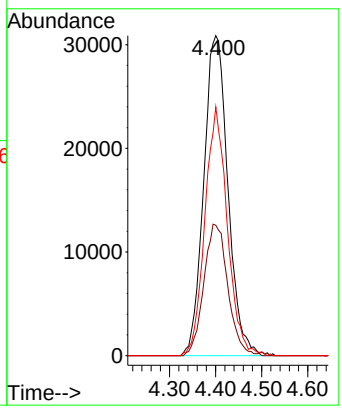


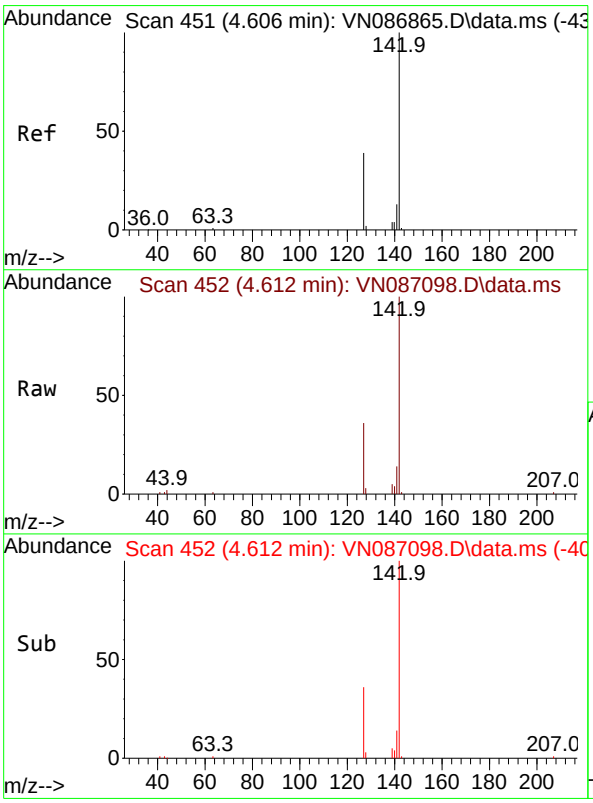
#9
1,1,2-Trichlorotrifluoroethane
Concen: 54.772 ug/l
RT: 4.400 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 112924

Ion	Ratio	Lower	Upper
101	100		
85	40.7	33.8	50.8
151	72.1	58.7	88.1

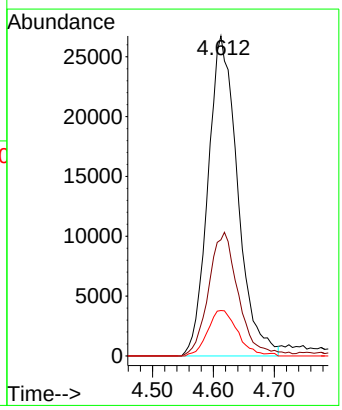


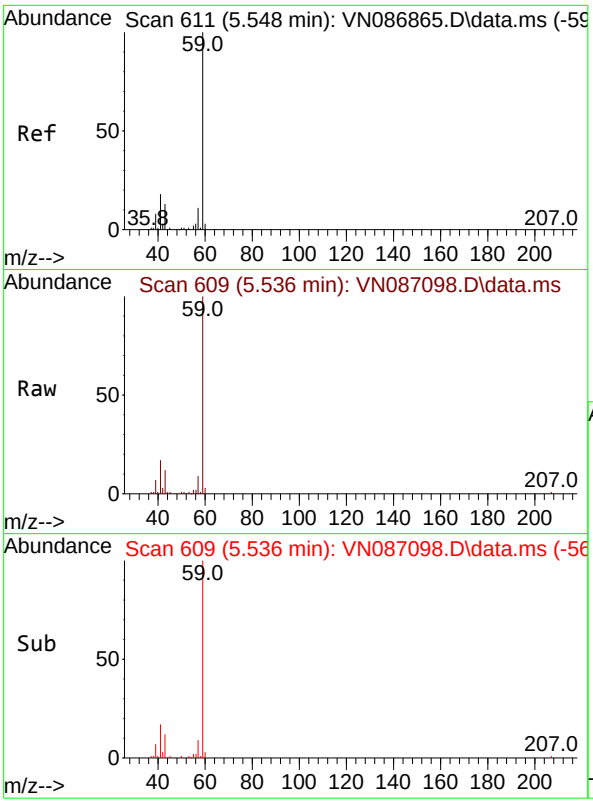


#10
Methyl Iodide
Concen: 33.845 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:142 Resp: 90457

Ion	Ratio	Lower	Upper
142	100		
127	36.3	30.9	46.3
141	14.2	10.4	15.6



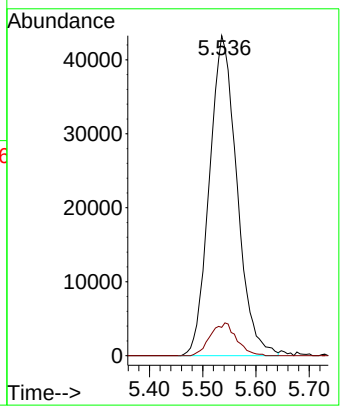


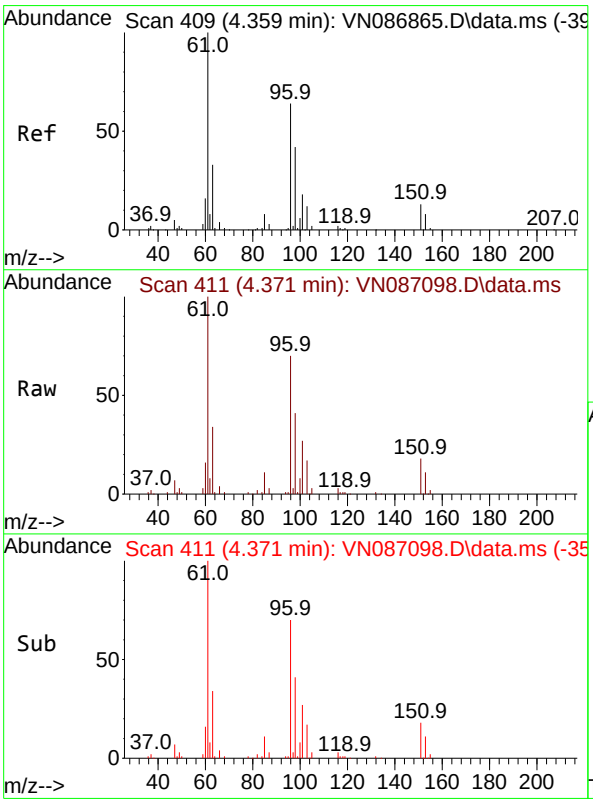
#11
Tert butyl alcohol
Concen: 226.134 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 155361

Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.1	12.1

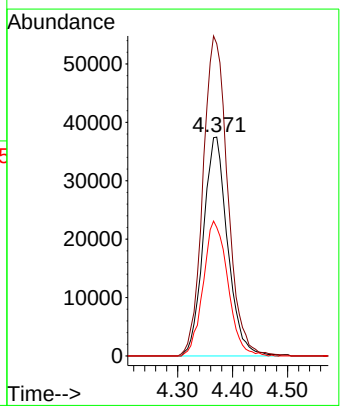


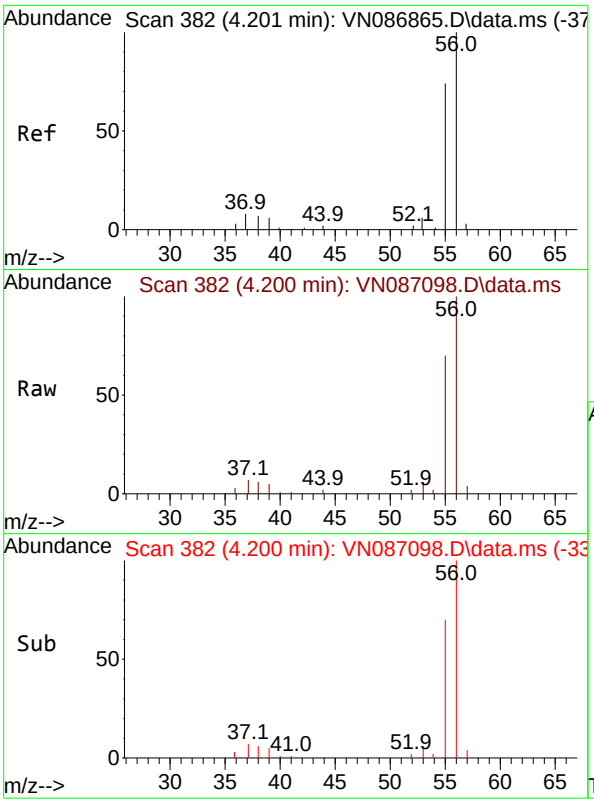


#12
1,1-Dichloroethene
Concen: 54.623 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 96 Resp: 114974

Ion	Ratio	Lower	Upper
96	100		
61	142.7	125.8	188.6
98	58.7	52.5	78.7



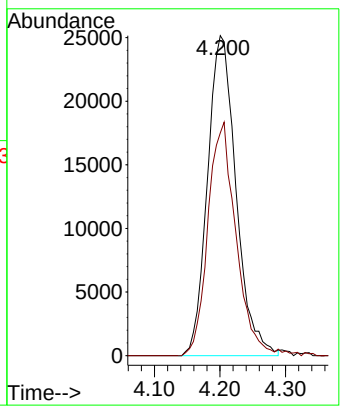


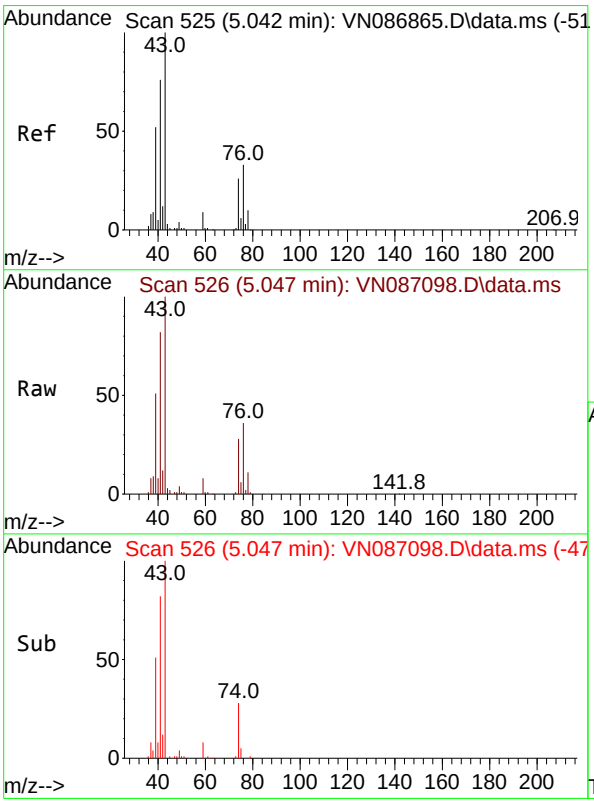
#13
Acrolein
Concen: 349.879 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 76088

Ion	Ratio	Lower	Upper
56	100		
55	71.2	55.6	83.4

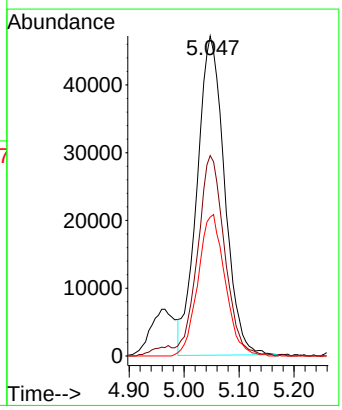


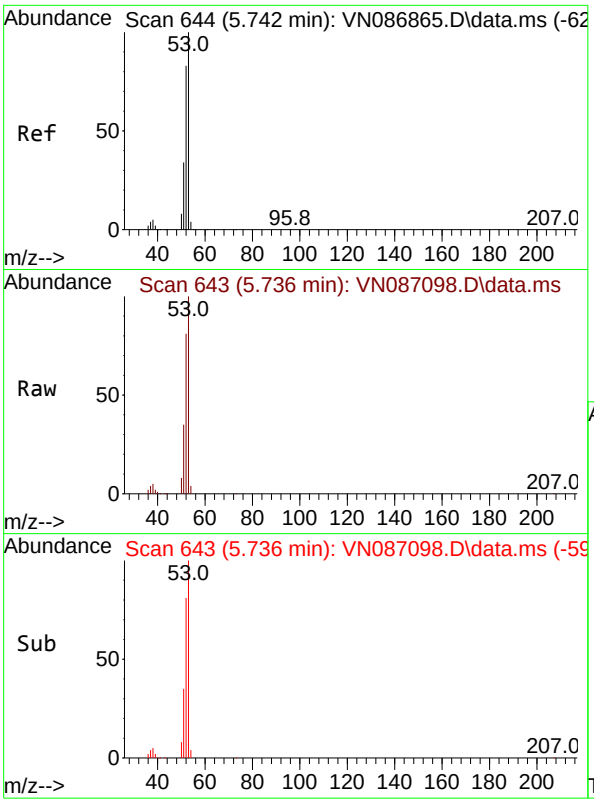


#14
Allyl chloride
Concen: 46.942 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 41 Resp: 163864

Ion	Ratio	Lower	Upper
41	100		
39	61.7	51.3	76.9
76	43.7	31.4	47.0



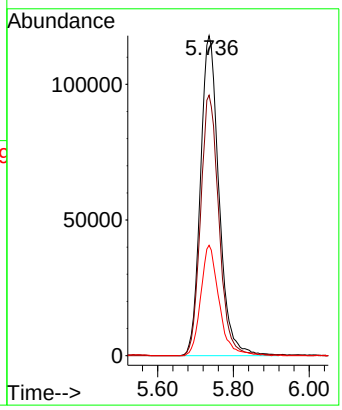


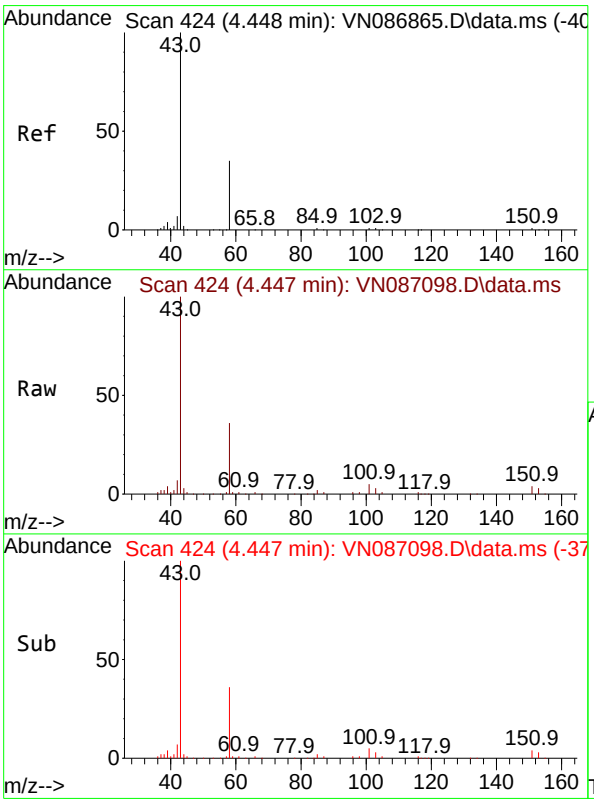
#15
Acrylonitrile
Concen: 249.606 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 400826

Ion	Ratio	Lower	Upper
53	100		
52	80.4	65.0	97.6
51	34.1	27.2	40.8

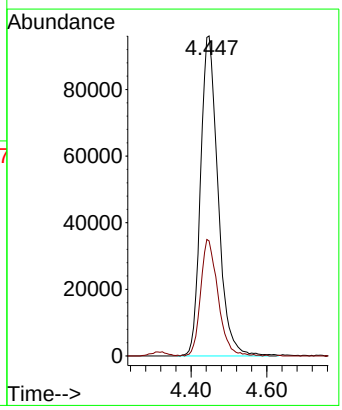


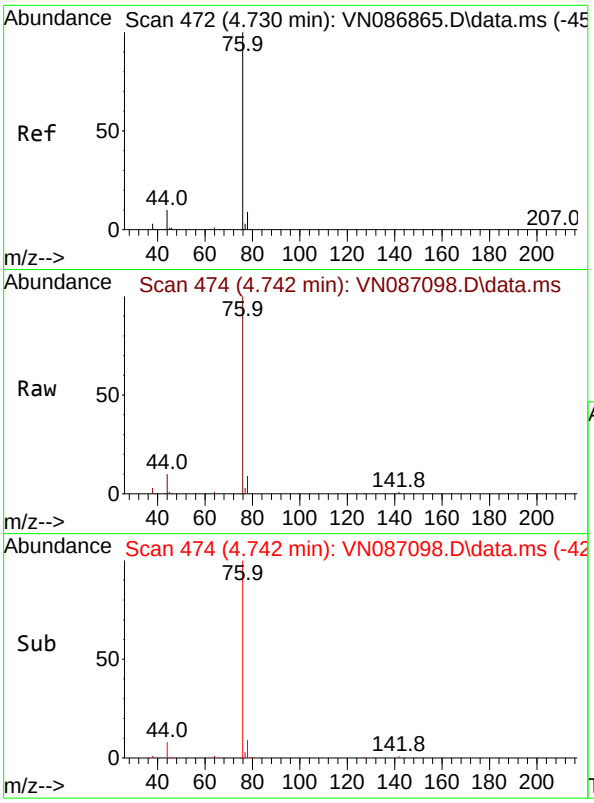


#16
Acetone
Concen: 228.541 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 43 Resp: 306869

Ion	Ratio	Lower	Upper
43	100		
58	35.8	28.0	42.0



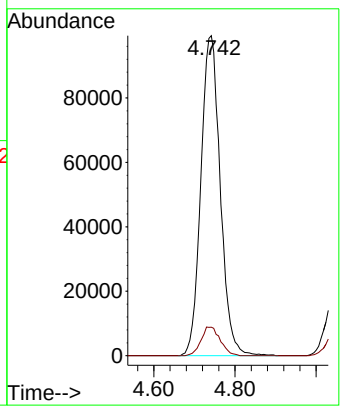


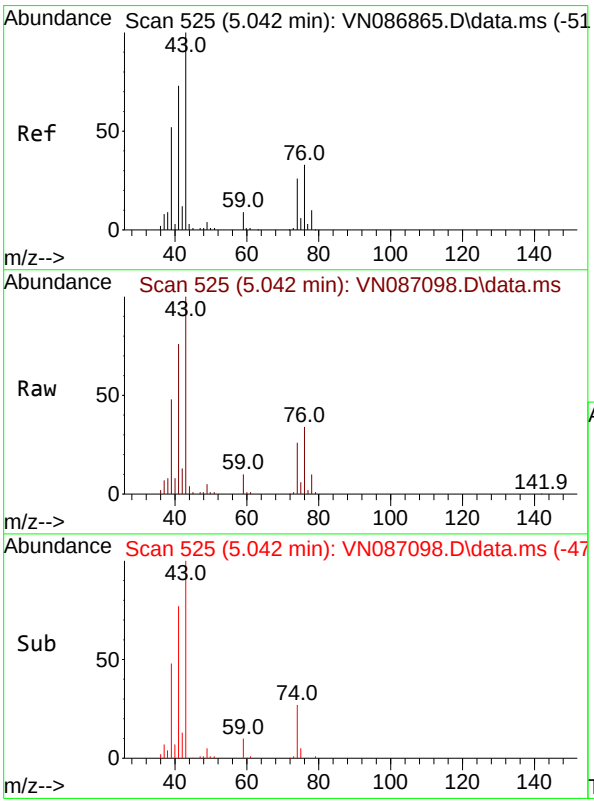
#17
Carbon Disulfide
Concen: 56.468 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 328770

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.3	10.9

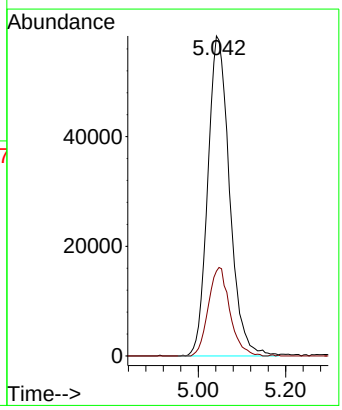


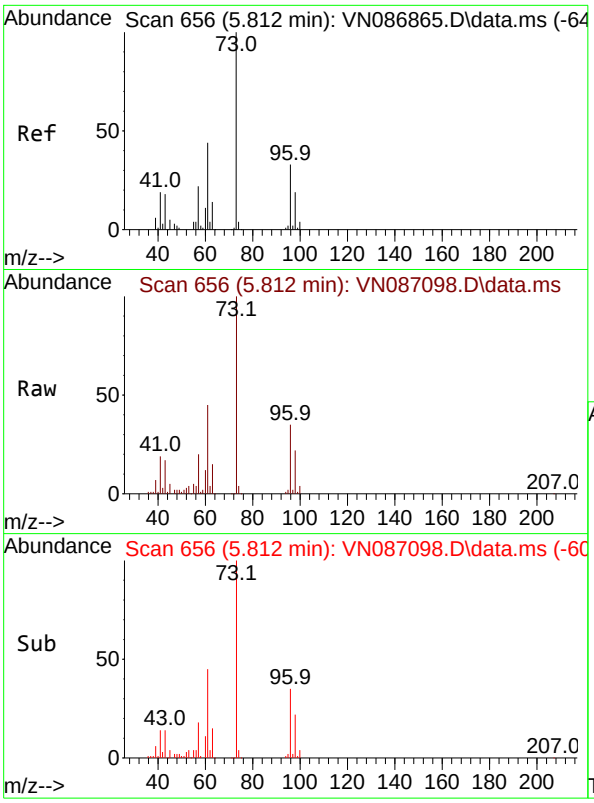


#18
Methyl Acetate
Concen: 51.551 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 43 Resp: 201717

Ion	Ratio	Lower	Upper
43	100		
74	27.3	20.7	31.1



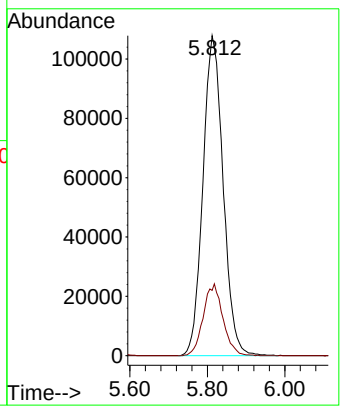


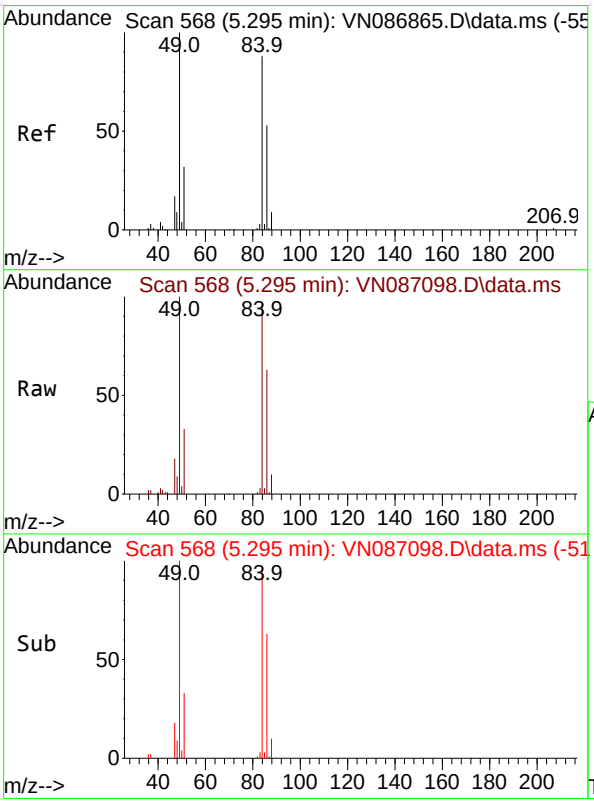
#19
Methyl tert-butyl Ether
Concen: 51.259 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 390655

Ion	Ratio	Lower	Upper
73	100		
57	20.4	17.4	26.2

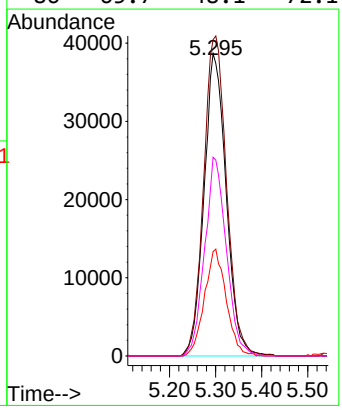


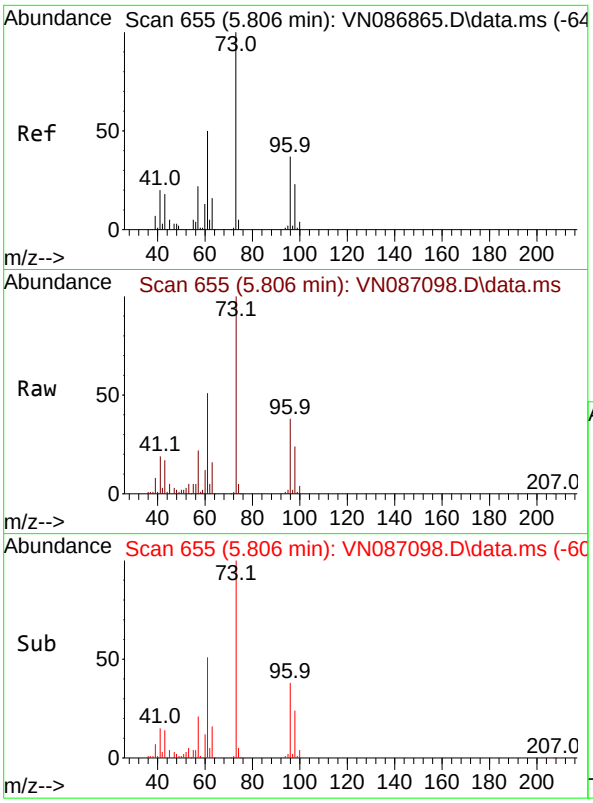


#20
Methylene Chloride
Concen: 51.511 ug/l
RT: 5.295 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 84 Resp: 129490

Ion	Ratio	Lower	Upper
84	100		
49	104.6	90.5	135.7
51	34.5	28.5	42.7
86	65.7	48.1	72.1



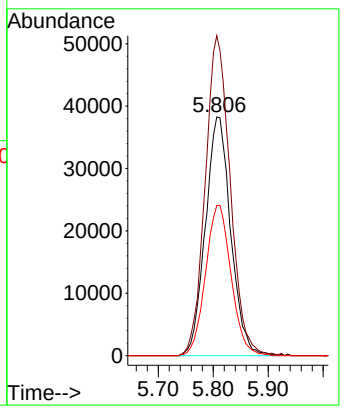


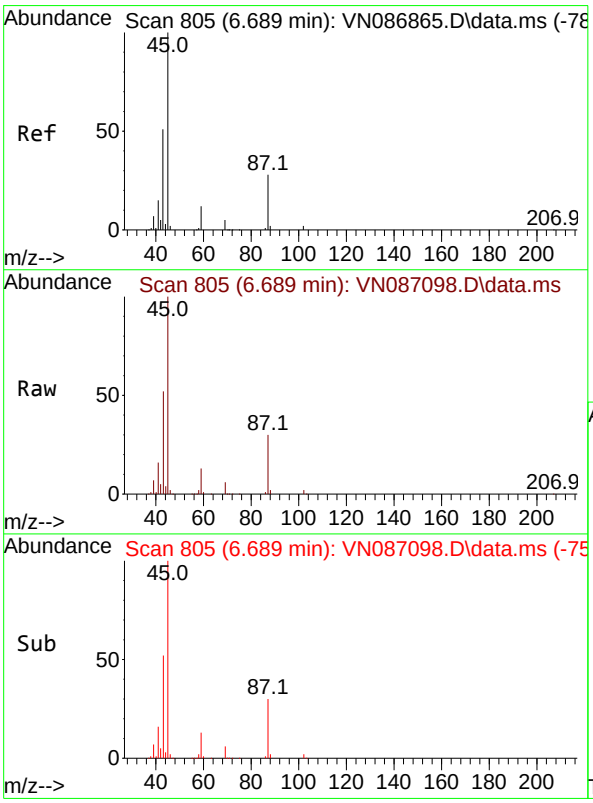
#21
trans-1,2-Dichloroethene
Concen: 52.348 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 122590

Ion	Ratio	Lower	Upper
96	100		
61	134.0	109.2	163.8
98	62.9	49.8	74.8

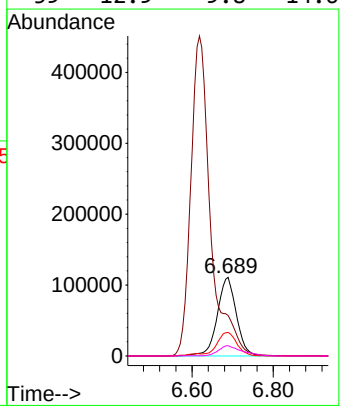


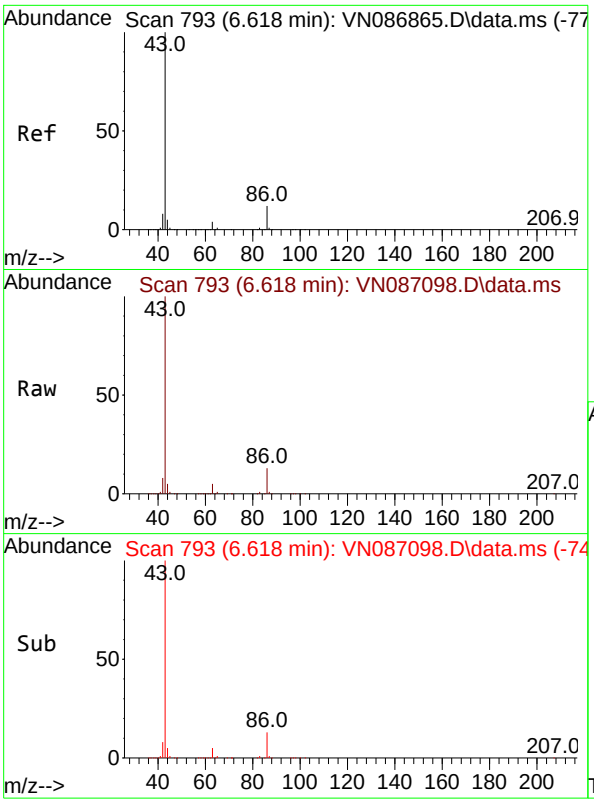


#22
Diisopropyl ether
Concen: 49.286 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 45 Resp: 362665

Ion	Ratio	Lower	Upper
45	100		
43	50.9	41.9	62.9
87	30.0	22.4	33.6
59	12.9	9.8	14.6



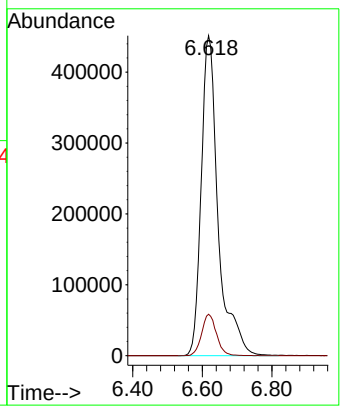


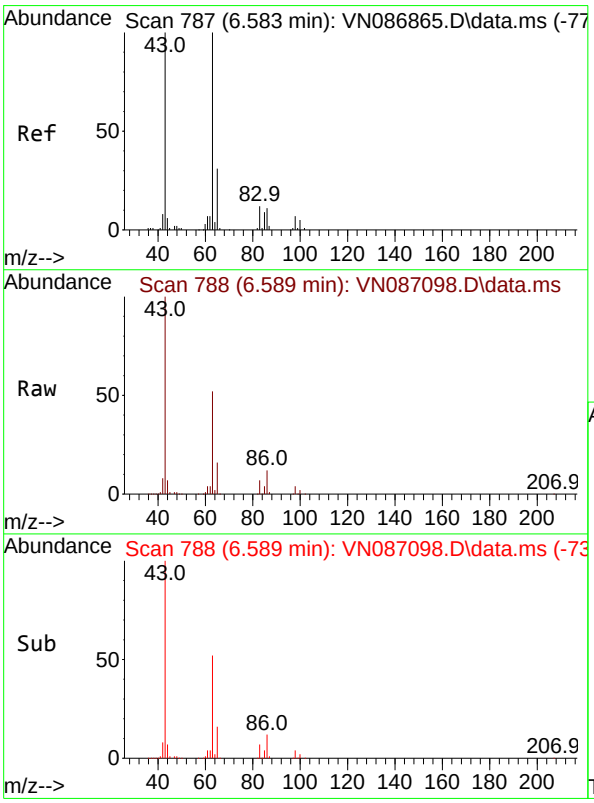
#23
Vinyl Acetate
Concen: 244.793 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1521870

Ion	Ratio	Lower	Upper
43	100		
86	13.0	9.5	14.3

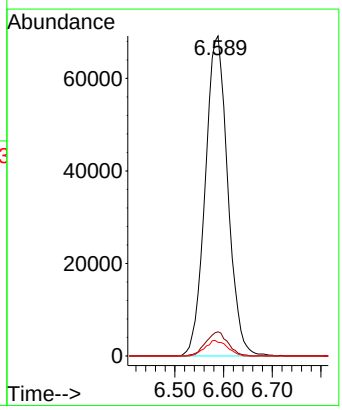


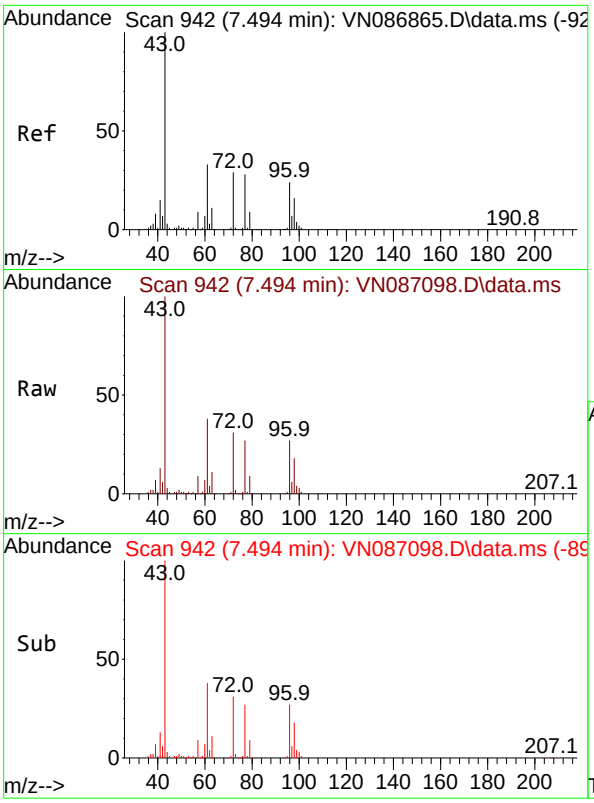


#24
1,1-Dichloroethane
Concen: 52.469 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 63 Resp: 222185

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.6	10.8
100	4.3	2.6	7.8



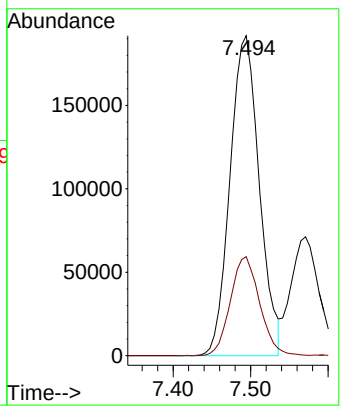


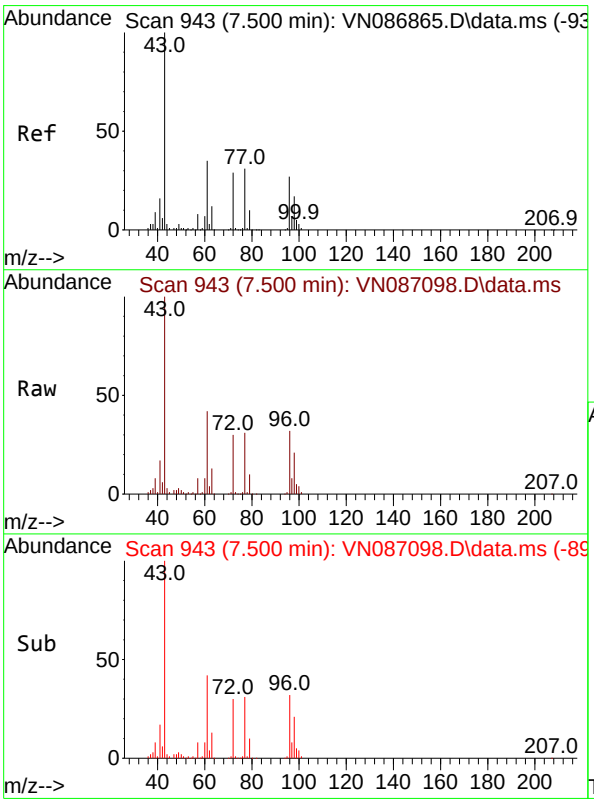
#25
2-Butanone
Concen: 231.377 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 504996

Ion	Ratio	Lower	Upper
43	100		
72	31.0	23.0	34.6

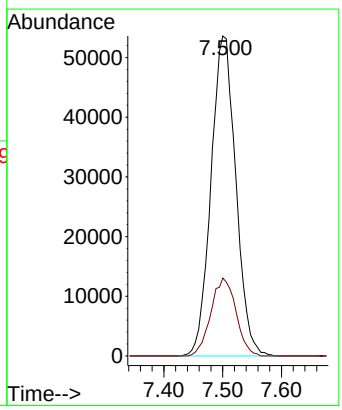


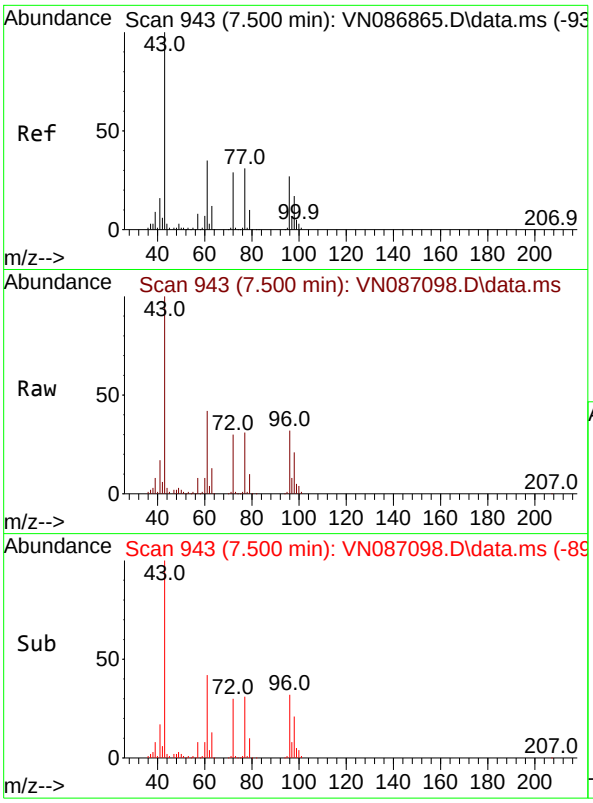


#26
2,2-Dichloropropane
Concen: 47.682 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 77 Resp: 157062

Ion	Ratio	Lower	Upper
77	100		
97	24.6	11.6	34.7



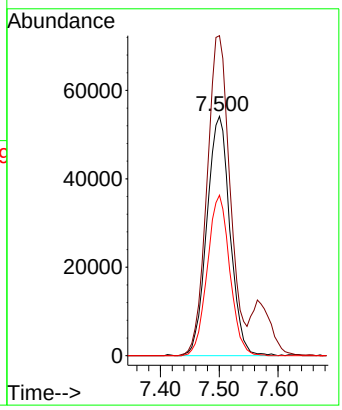


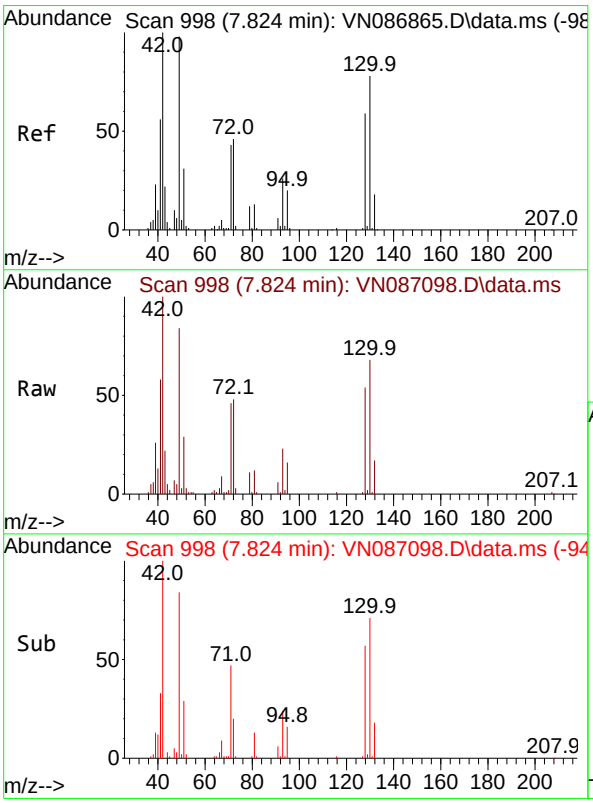
#27
cis-1,2-Dichloroethene
Concen: 52.800 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 147877

Ion	Ratio	Lower	Upper
96	100		
61	133.3	0.0	278.0
98	65.0	0.0	128.2

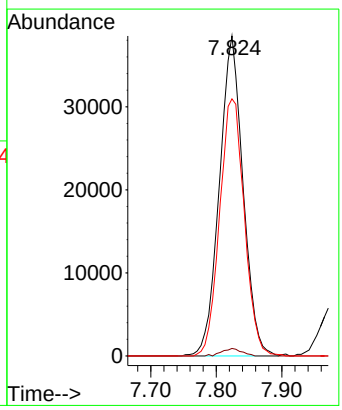


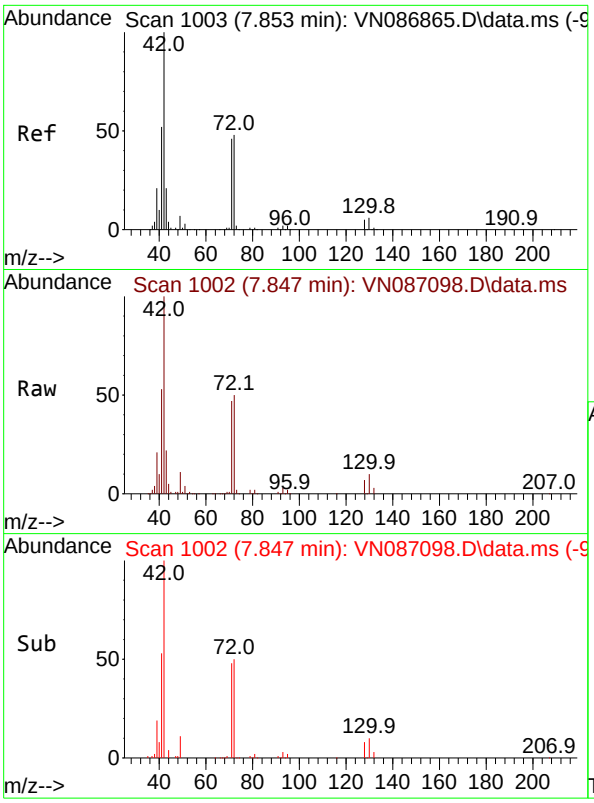


#28
Bromochloromethane
Concen: 46.356 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 49 Resp: 96515

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	83.7	62.2	93.2



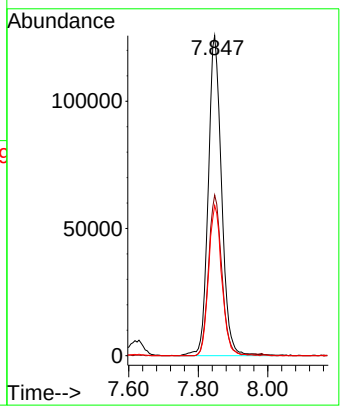


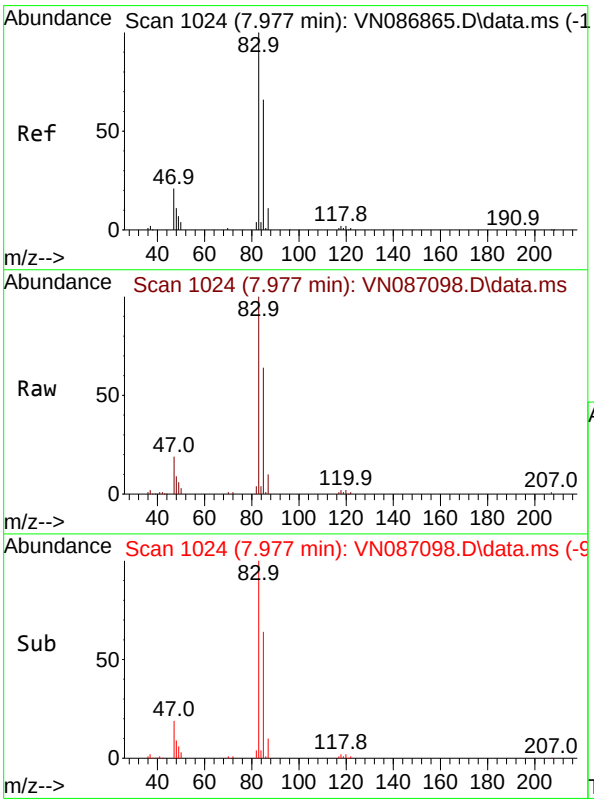
#29
Tetrahydrofuran
Concen: 235.230 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 334447

Ion	Ratio	Lower	Upper
42	100		
72	50.0	37.8	56.6
71	46.4	35.6	53.4

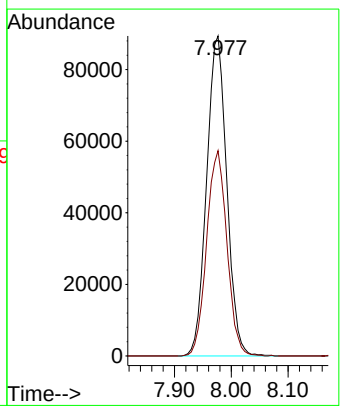


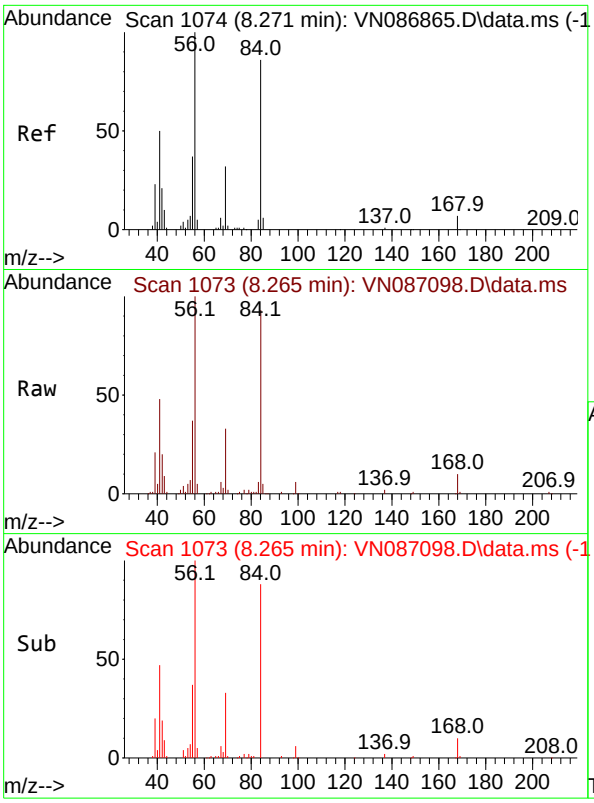


#30
Chloroform
Concen: 51.995 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 83 Resp: 219880

Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.9	79.3



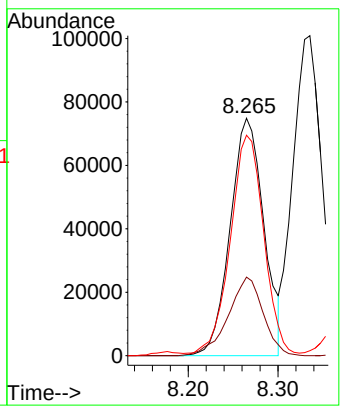


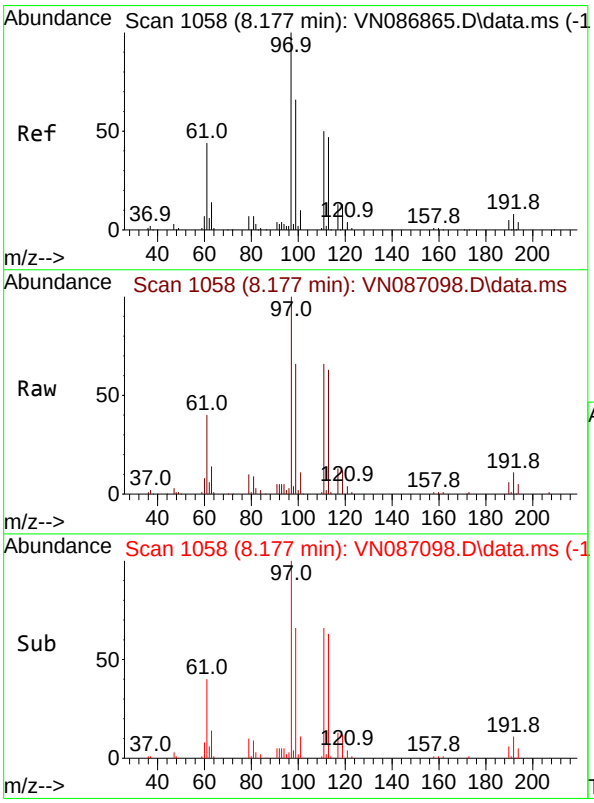
#31
Cyclohexane
Concen: 47.532 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 195195

Ion	Ratio	Lower	Upper
56	100		
69	33.1	25.4	38.0
84	91.7	68.8	103.2

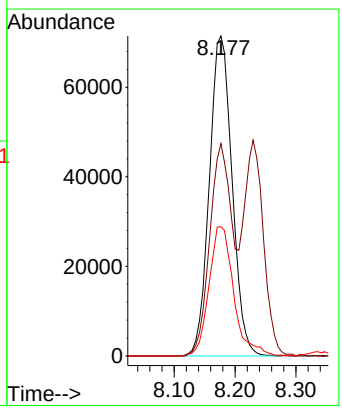


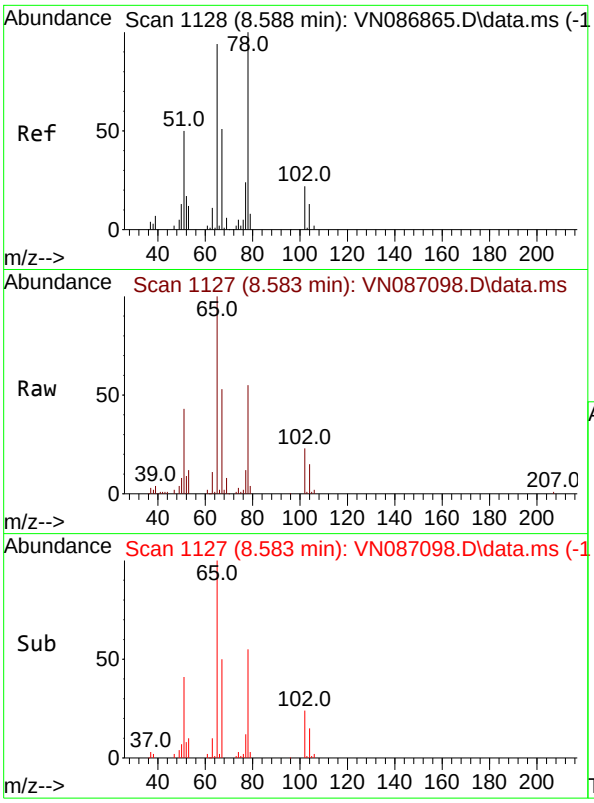


#32
1,1,1-Trichloroethane
Concen: 51.545 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 97 Resp: 185396

Ion	Ratio	Lower	Upper
97	100		
99	67.3	52.0	78.0
61	43.9	35.9	53.9



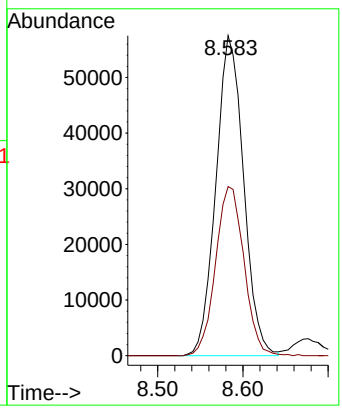


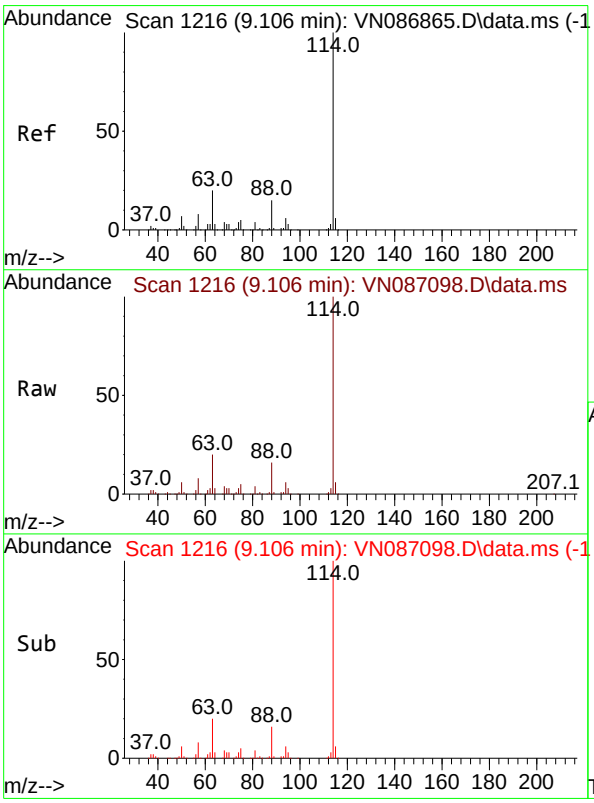
#33
1,2-Dichloroethane-d4
Concen: 51.308 ug/l
RT: 8.583 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 129912

Ion	Ratio	Lower	Upper
65	100		
67	54.2	0.0	105.6

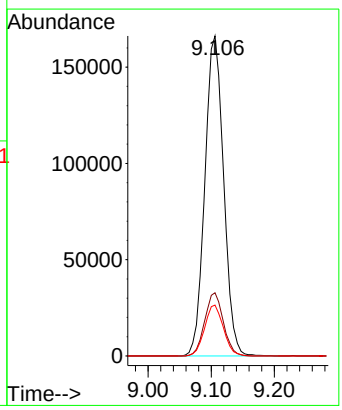


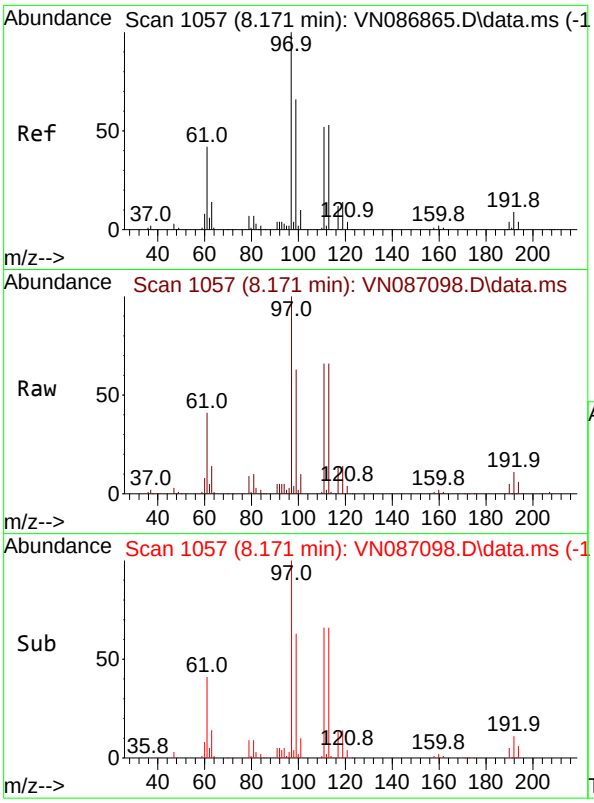


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:114 Resp: 343303

Ion	Ratio	Lower	Upper
114	100		
63	19.8	0.0	39.6
88	15.9	0.0	30.2



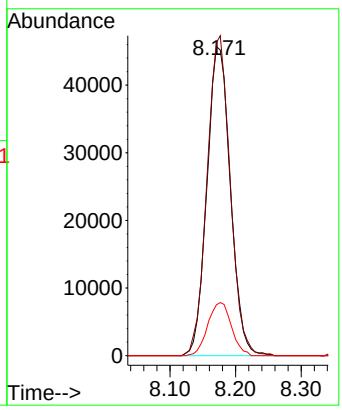


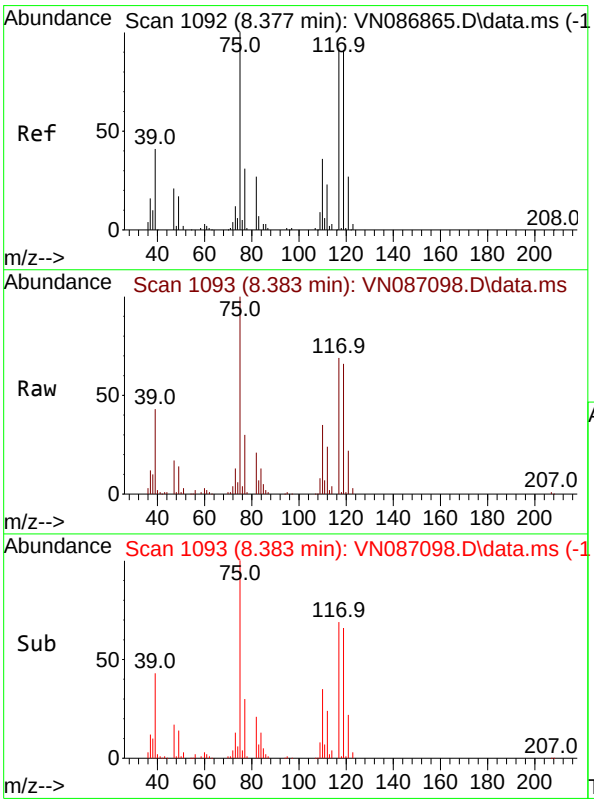
#35
Dibromofluoromethane
Concen: 55.912 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 113753

Ion	Ratio	Lower	Upper
113	100		
111	102.1	84.2	126.2
192	17.3	14.2	21.4

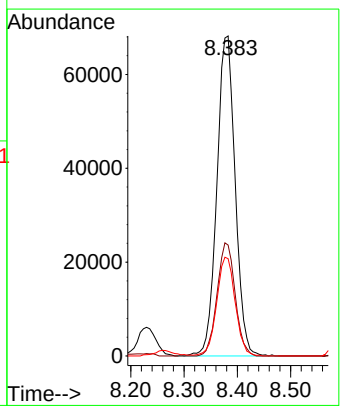


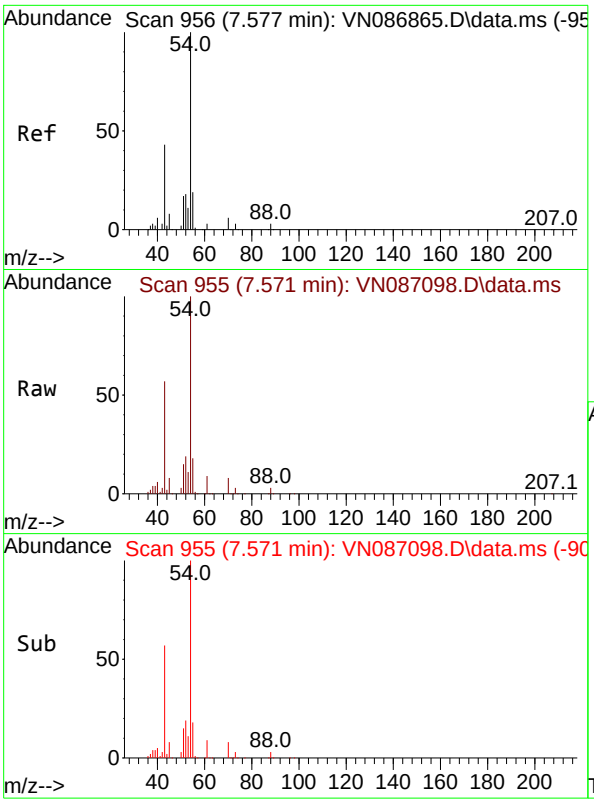


#36
1,1-Dichloropropene
Concen: 53.726 ug/l
RT: 8.383 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 75 Resp: 162876

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.6	52.9
77	31.2	25.3	37.9



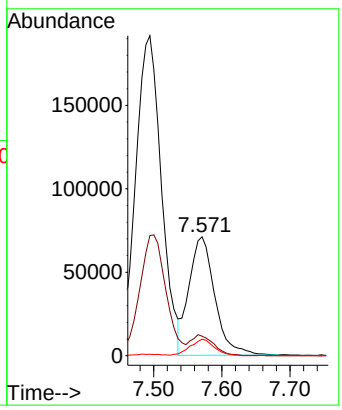


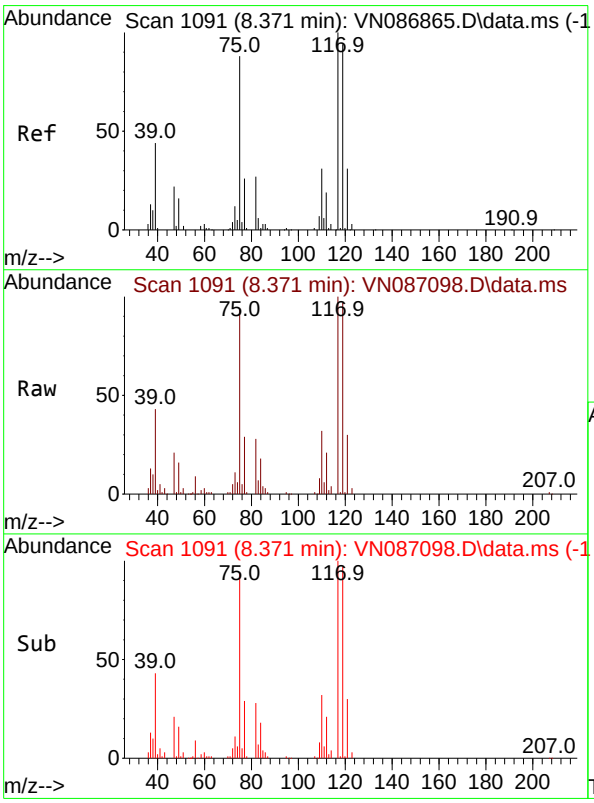
#37
Ethyl Acetate
Concen: 48.515 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 187232

Ion	Ratio	Lower	Upper
43	100		
61	15.5	12.1	18.1
70	13.0	9.8	14.6

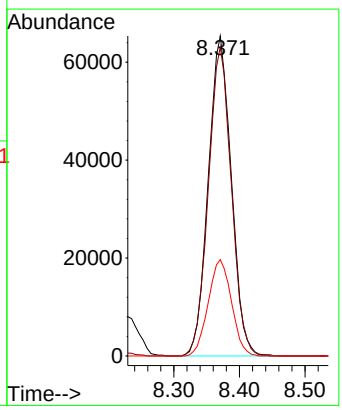


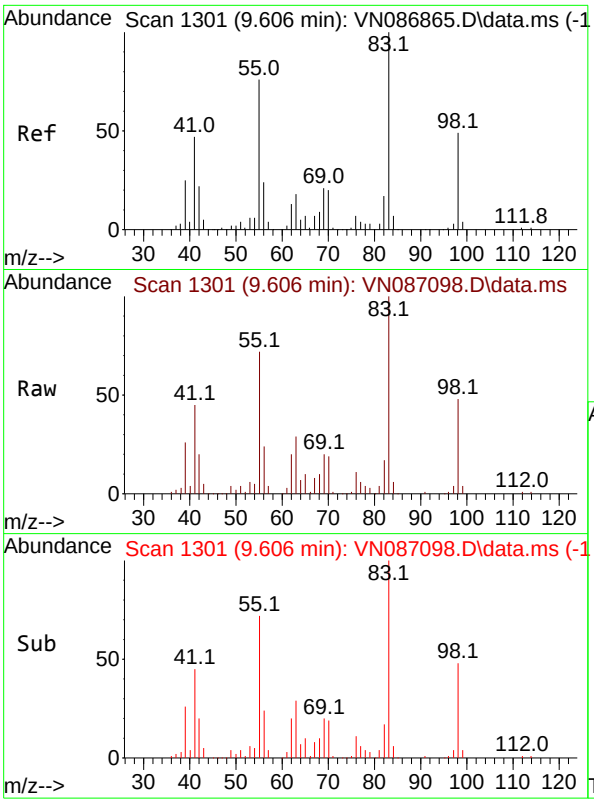


#38
Carbon Tetrachloride
Concen: 53.568 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:117 Resp: 159437

Ion	Ratio	Lower	Upper
117	100		
119	96.6	75.0	112.6
121	30.1	24.9	37.3



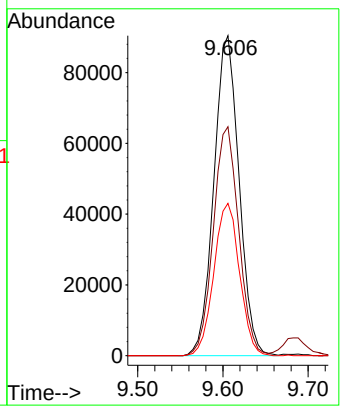


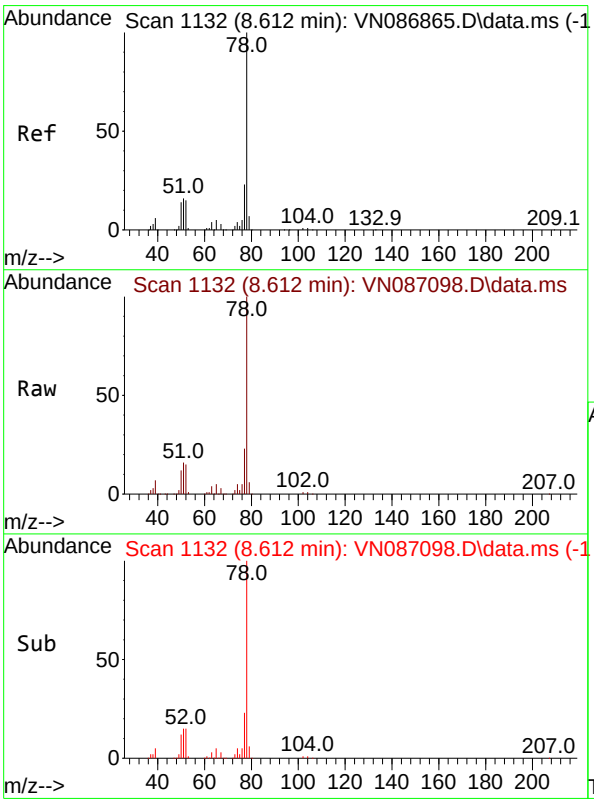
#39
Methylcyclohexane
Concen: 44.790 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 186032

Ion	Ratio	Lower	Upper
83	100		
55	71.5	61.0	91.6
98	47.6	38.9	58.3

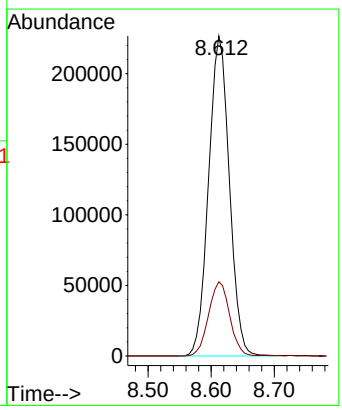


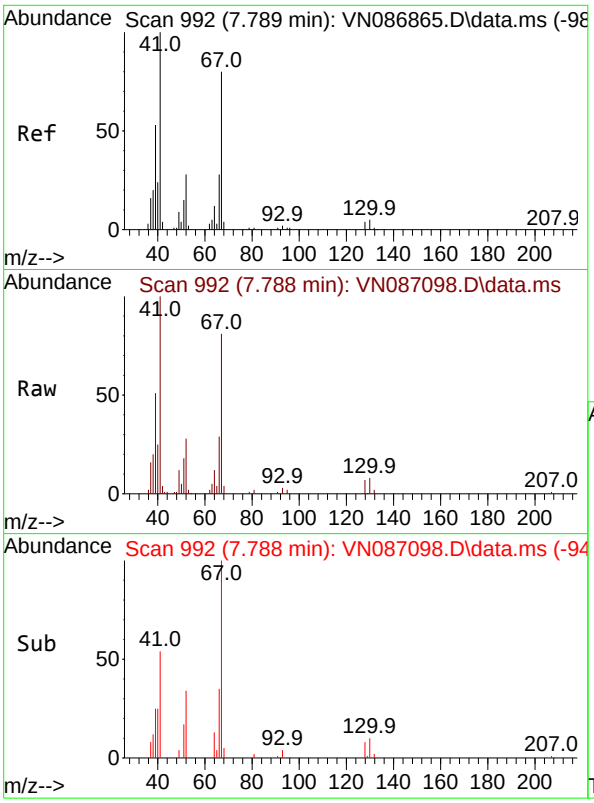


#40
Benzene
Concen: 52.225 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 78 Resp: 517732

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.7	28.1



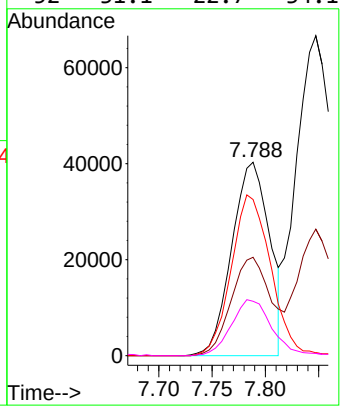


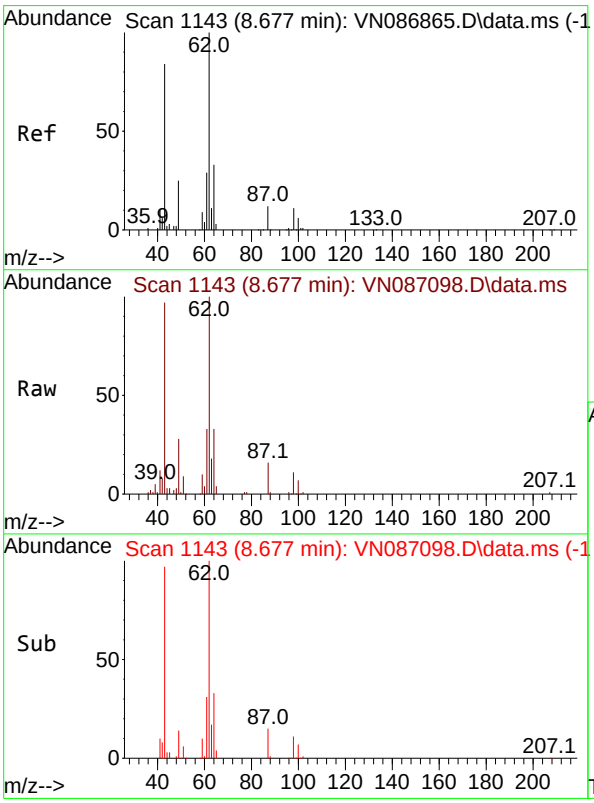
#41
Methacrylonitrile
Concen: 45.981 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 99657

Ion	Ratio	Lower	Upper
41	100		
39	54.7	41.2	61.8
67	87.0	61.4	92.2
52	31.1	22.7	34.1

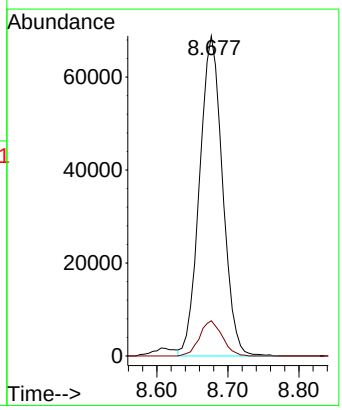


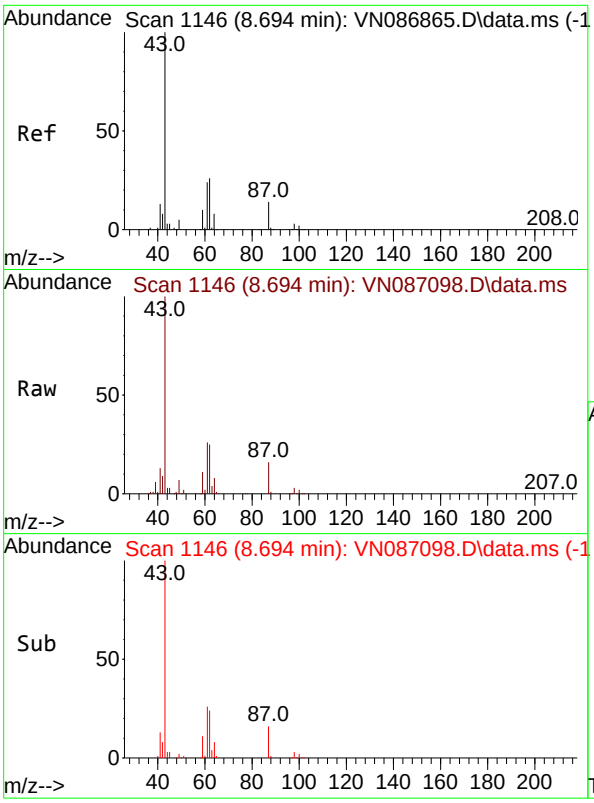


#42
1,2-Dichloroethane
Concen: 51.533 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 62 Resp: 154951

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	21.2



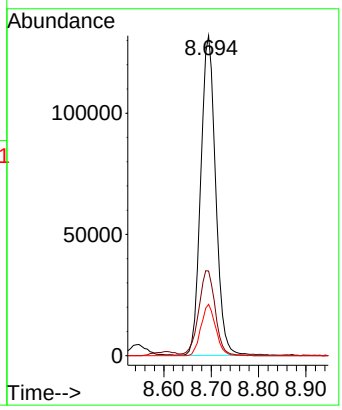


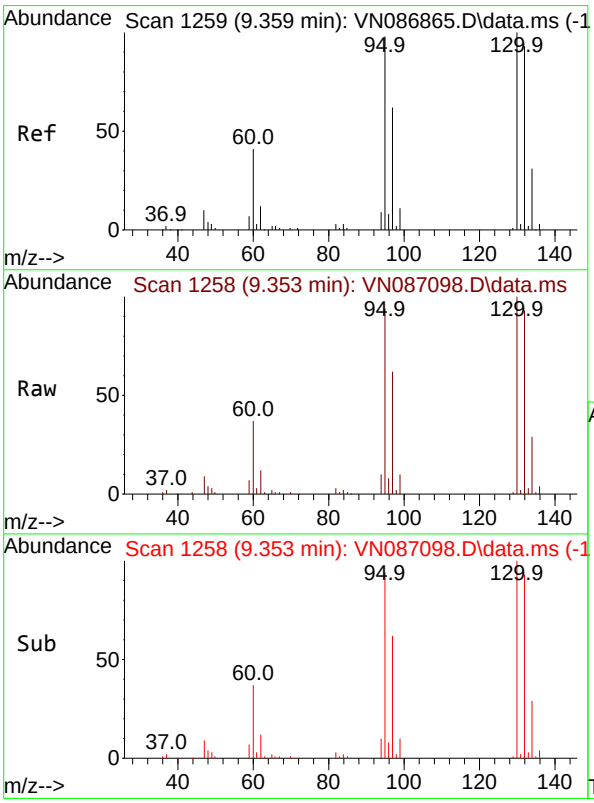
#43
Isopropyl Acetate
Concen: 46.481 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 287907

Ion	Ratio	Lower	Upper
43	100		
61	29.6	22.1	33.1
87	16.0	11.8	17.6

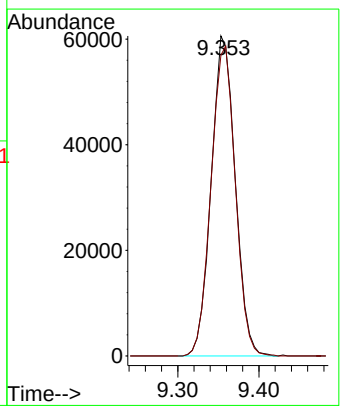


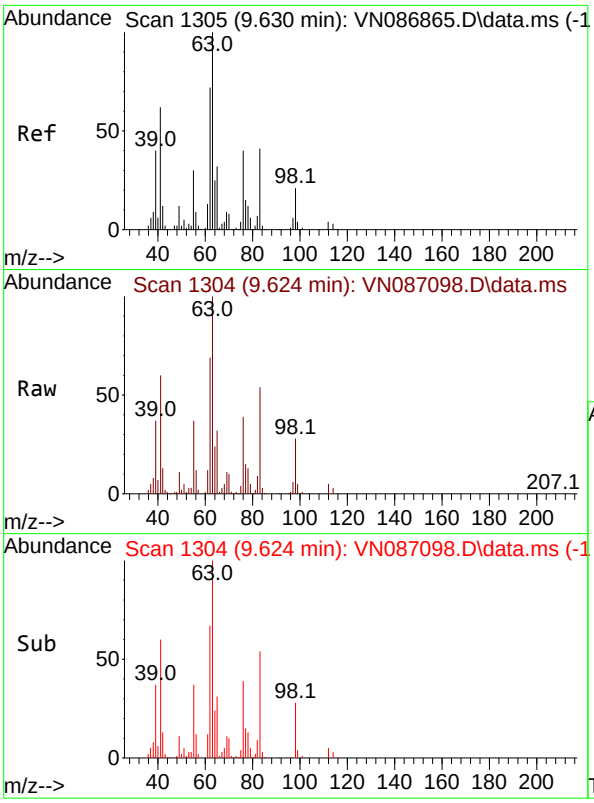


#44
Trichloroethene
Concen: 52.982 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:130 Resp: 124543

Ion	Ratio	Lower	Upper
130	100		
95	94.0	0.0	196.2



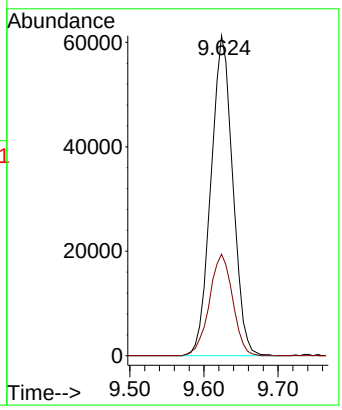


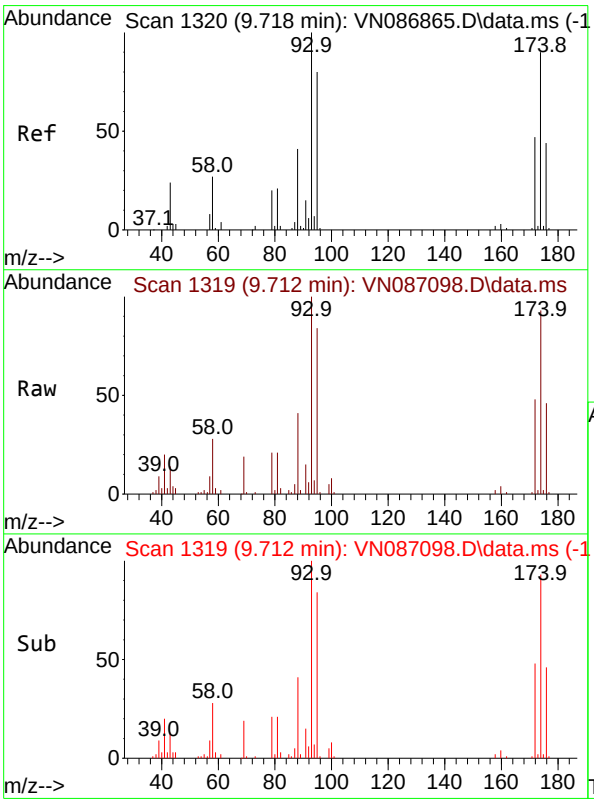
#45
1,2-Dichloropropane
Concen: 51.954 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 125302

Ion	Ratio	Lower	Upper
63	100		
65	31.7	25.5	38.3

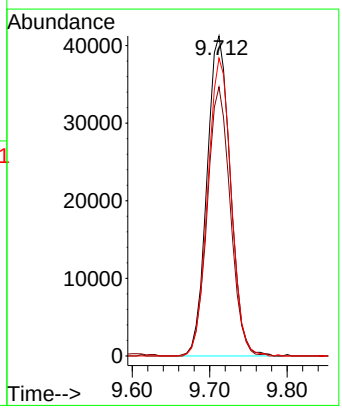


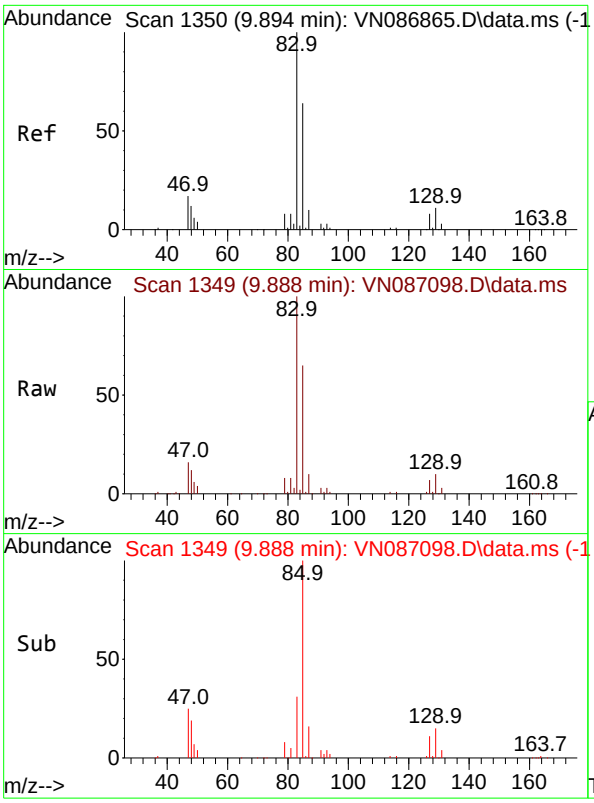


#46
Dibromomethane
Concen: 53.963 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 93 Resp: 86447

Ion	Ratio	Lower	Upper
93	100		
95	83.1	67.1	100.7
174	93.2	74.2	111.4



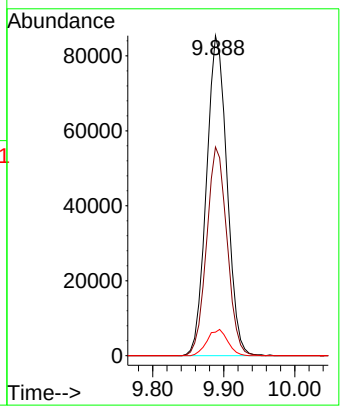


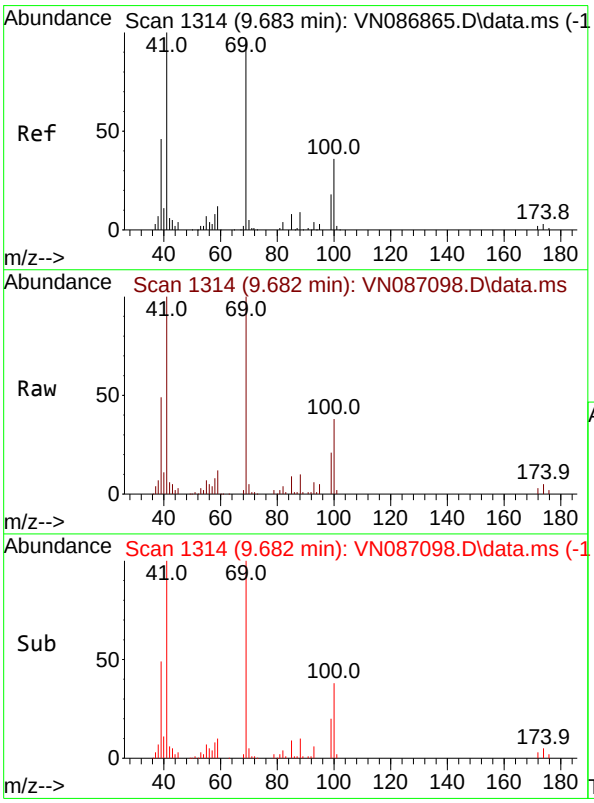
#47
Bromodichloromethane
Concen: 51.947 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 171216

Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.9	76.3
127	7.4	6.6	10.0

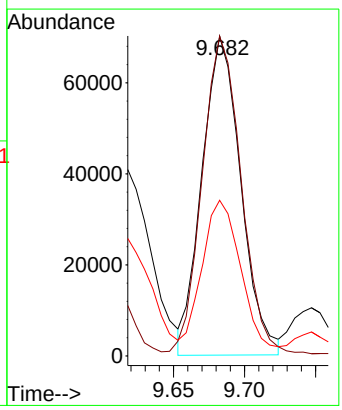


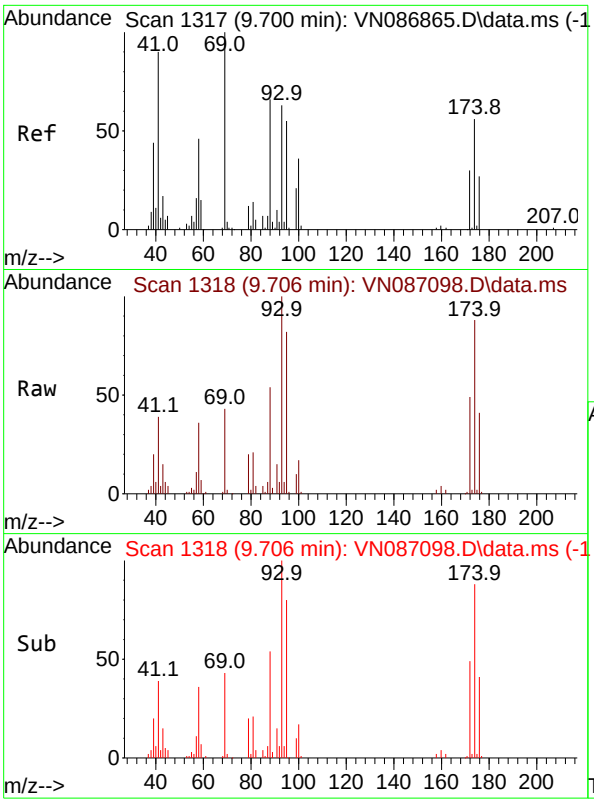


#48
Methyl methacrylate
Concen: 46.733 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 41 Resp: 133232

Ion	Ratio	Lower	Upper
41	100		
69	102.8	74.6	112.0
39	49.9	40.2	60.4



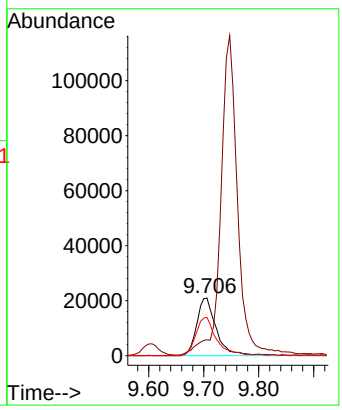


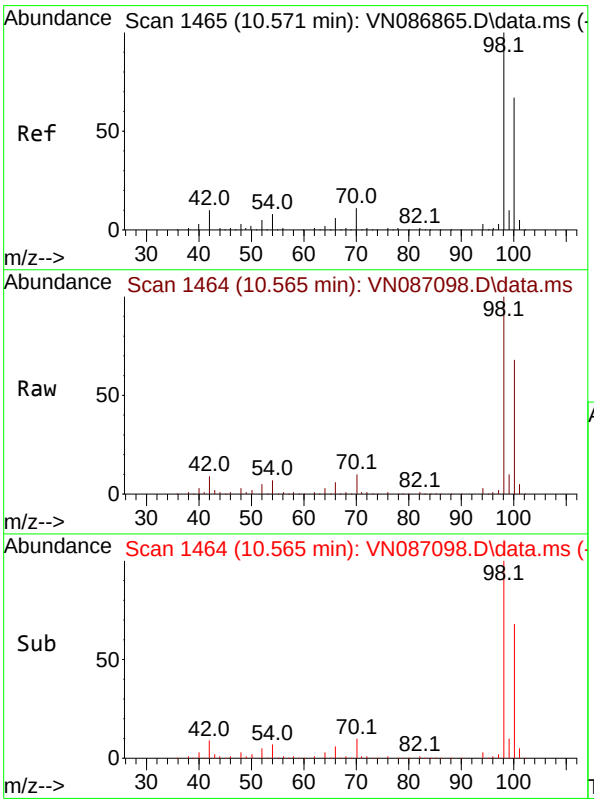
#49
1,4-Dioxane
Concen: 996.635 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 51690

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	69.9	57.7	86.5

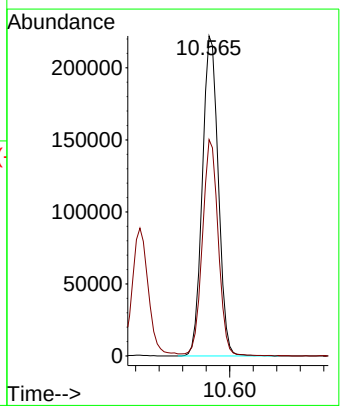


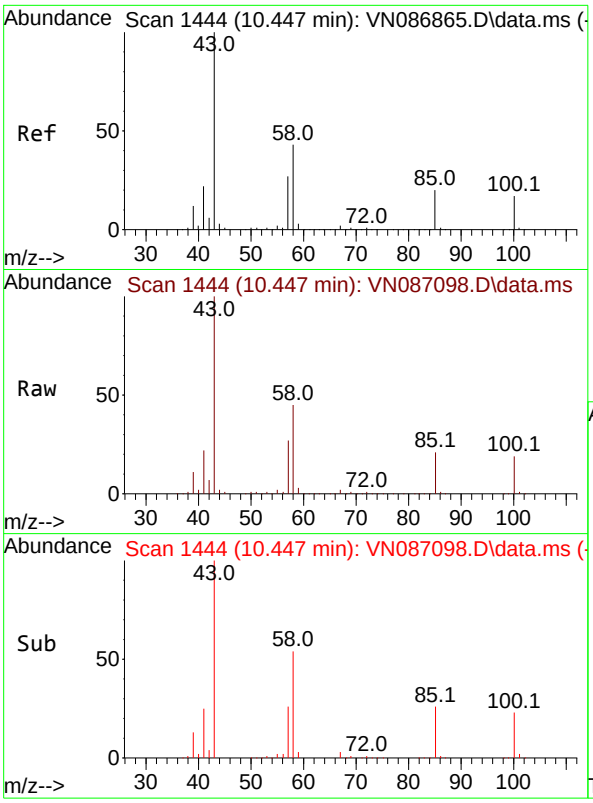


#50
Toluene-d8
Concen: 51.677 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 98 Resp: 416207

Ion	Ratio	Lower	Upper
98	100		
100	67.4	53.4	80.0



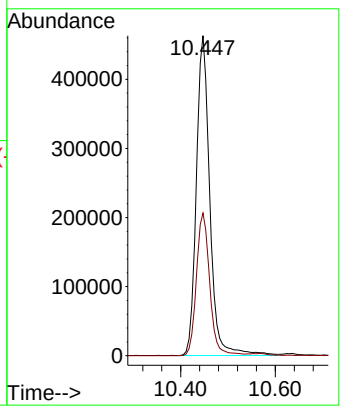


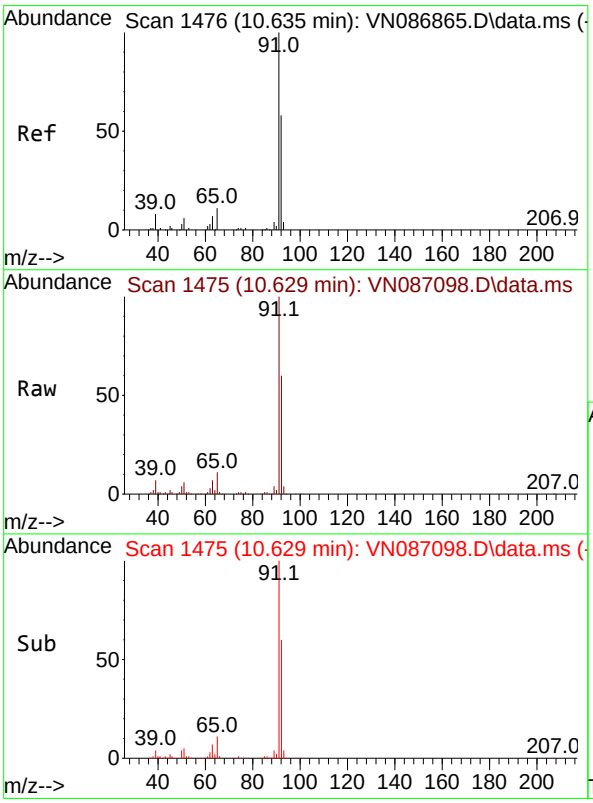
#51
4-Methyl-2-Pentanone
Concen: 245.922 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 917017

Ion	Ratio	Lower	Upper
43	100		
58	44.0	34.2	51.4

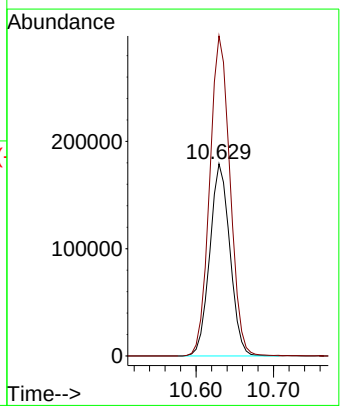


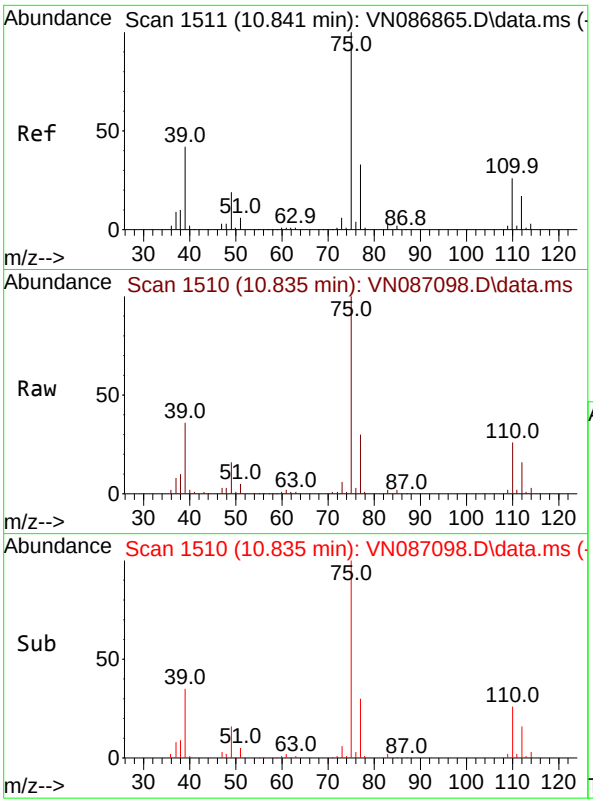


#52
Toluene
Concen: 53.238 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 92 Resp: 322535

Ion	Ratio	Lower	Upper
92	100		
91	168.8	136.5	204.7



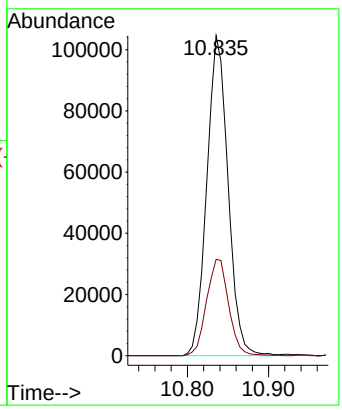


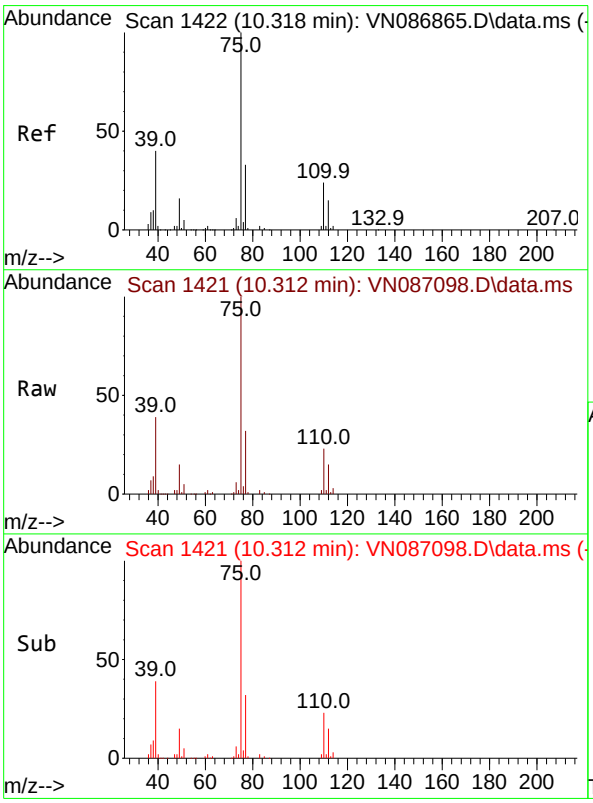
#53
t-1,3-Dichloropropene
Concen: 51.432 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 189556

Ion	Ratio	Lower	Upper
75	100		
77	30.1	26.4	39.6

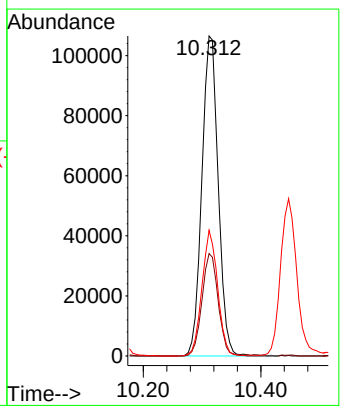


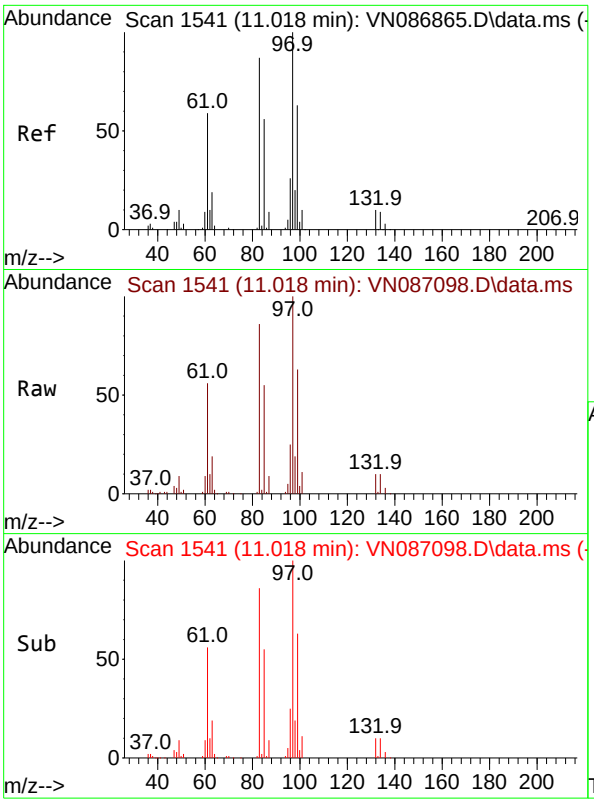


#54
cis-1,3-Dichloropropene
Concen: 52.274 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 75 Resp: 206140

Ion	Ratio	Lower	Upper
75	100		
77	32.0	26.2	39.4
39	39.2	32.3	48.5



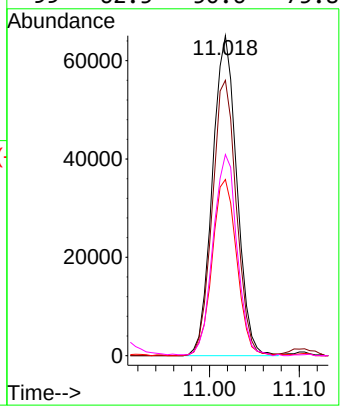


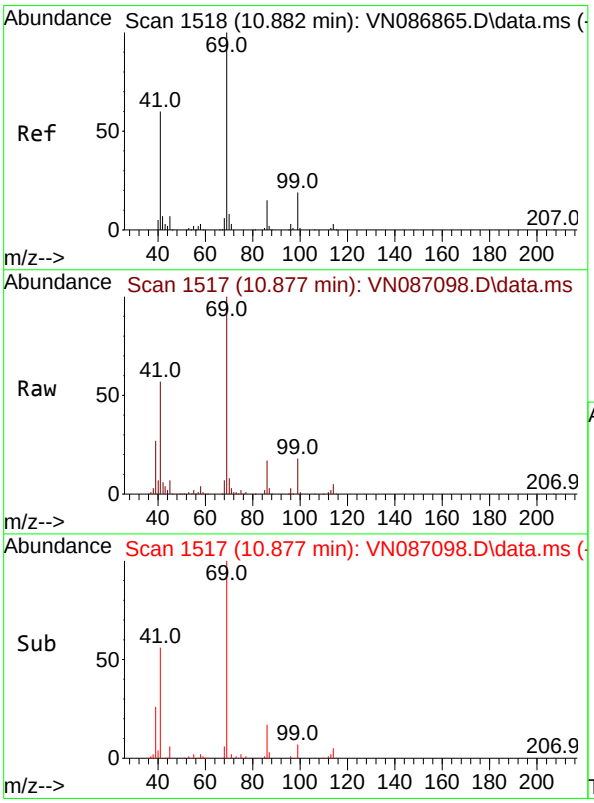
#55
1,1,2-Trichloroethane
Concen: 52.632 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 122692

Ion	Ratio	Lower	Upper
97	100		
83	86.0	69.7	104.5
85	55.0	45.1	67.7
99	62.5	50.6	75.8

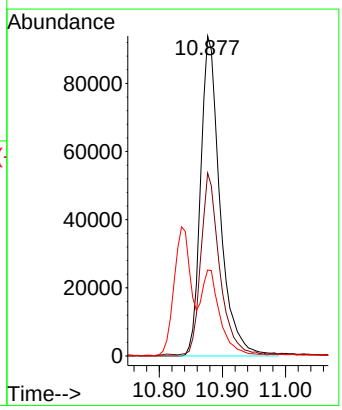


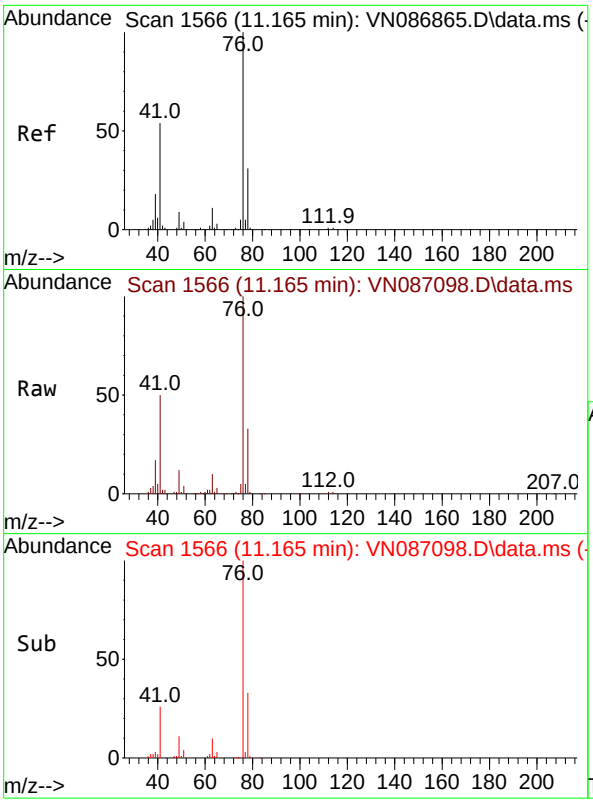


#56
Ethyl methacrylate
Concen: 53.942 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 69 Resp: 200286

Ion	Ratio	Lower	Upper
69	100		
41	54.8	47.2	70.8
39	25.4	23.0	34.6



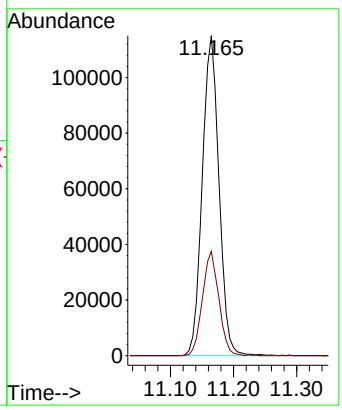


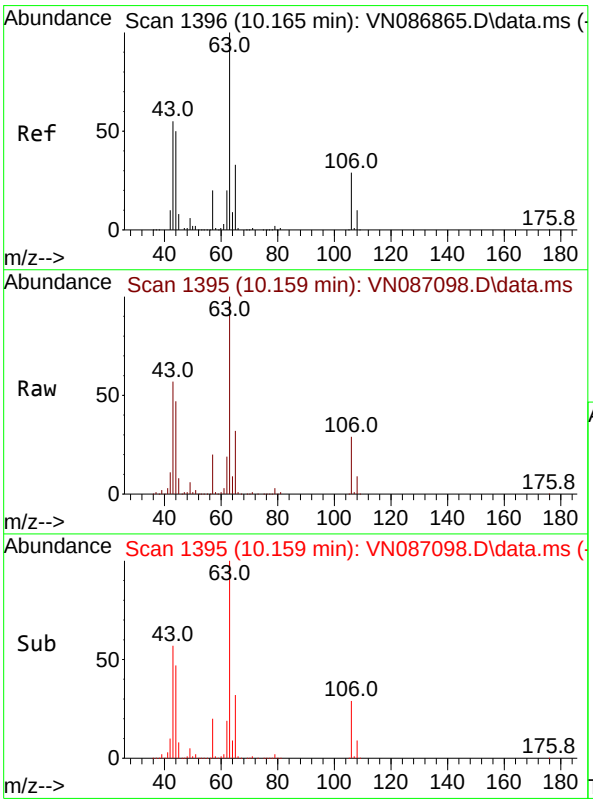
#57
1,3-Dichloropropane
Concen: 52.304 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 211513

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.3	37.9

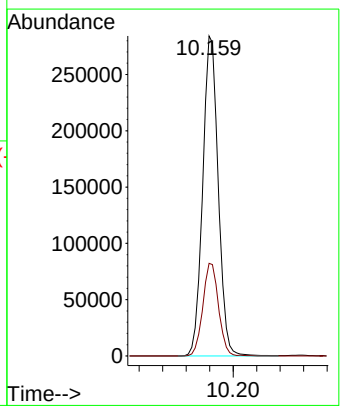


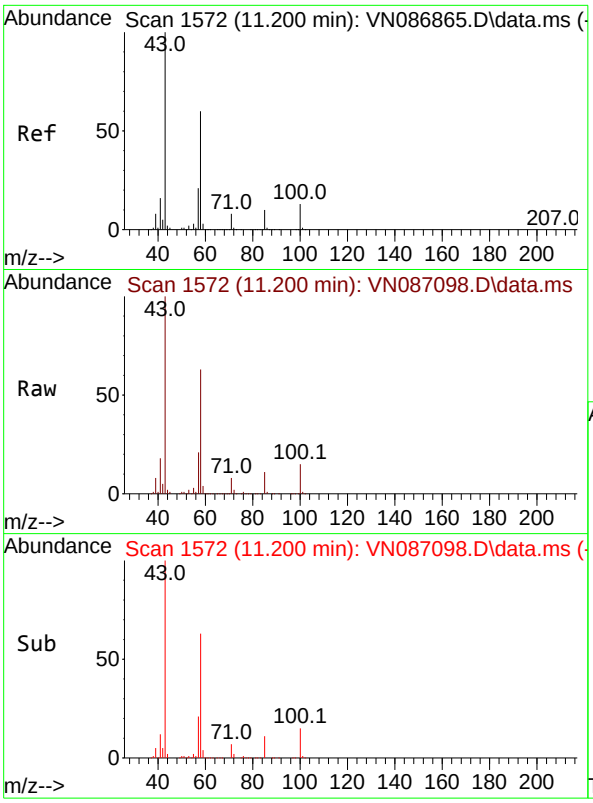


#58
2-Chloroethyl Vinyl ether
Concen: 235.679 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 63 Resp: 521933

Ion	Ratio	Lower	Upper
63	100		
106	29.3	23.0	34.6



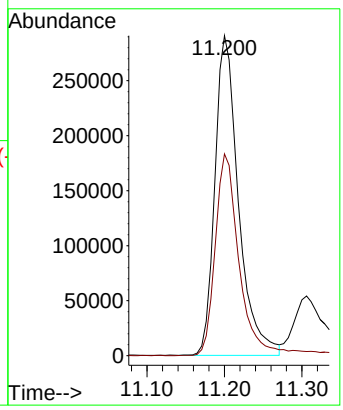


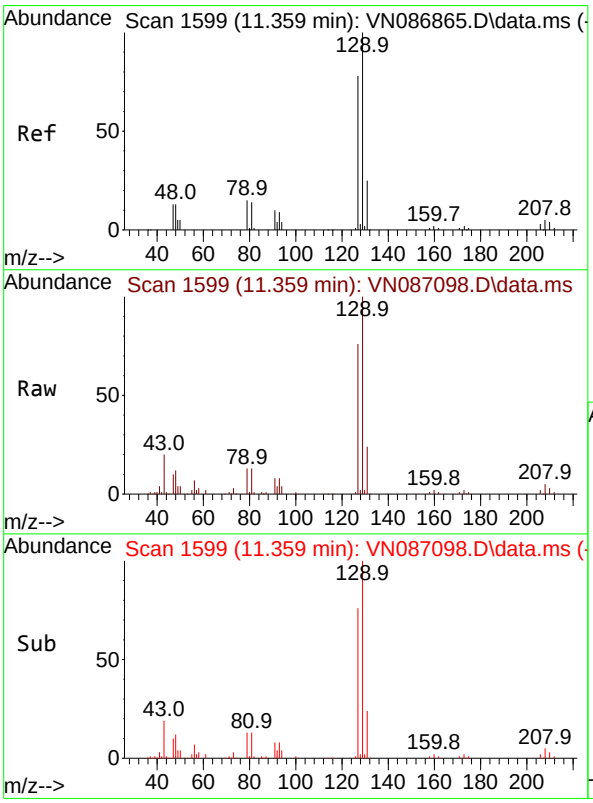
#59
2-Hexanone
Concen: 255.969 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 614814

Ion	Ratio	Lower	Upper
43	100		
58	66.1	30.4	91.3

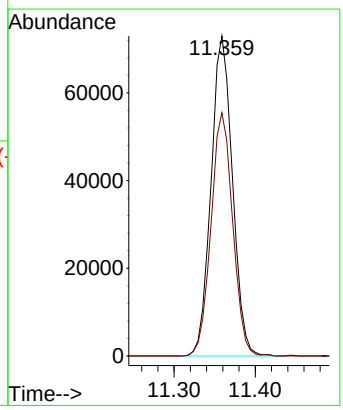


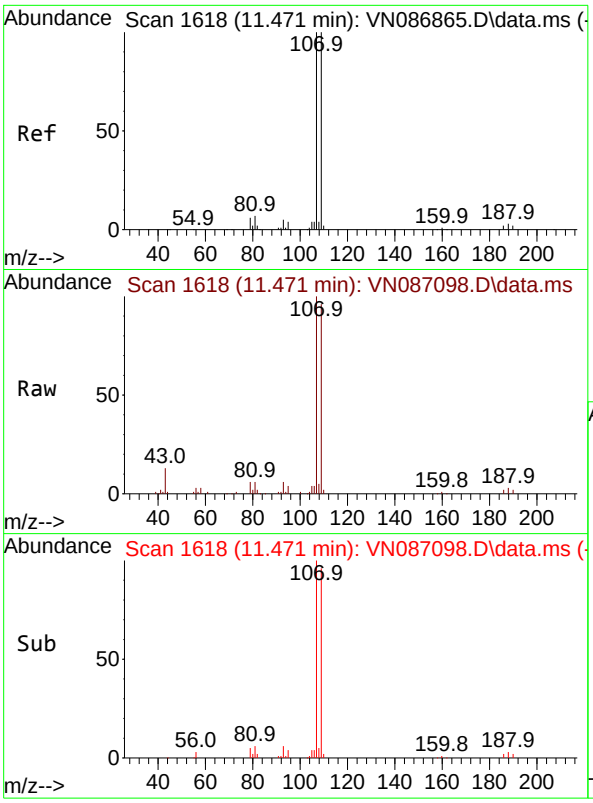


#60
Dibromochloromethane
Concen: 55.092 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:129 Resp: 133807

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.6	115.8



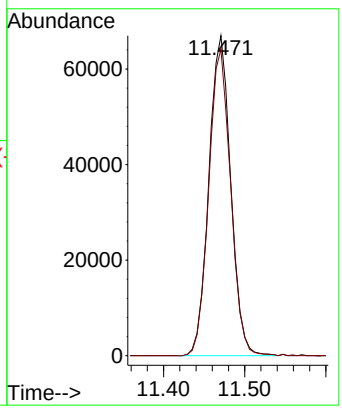


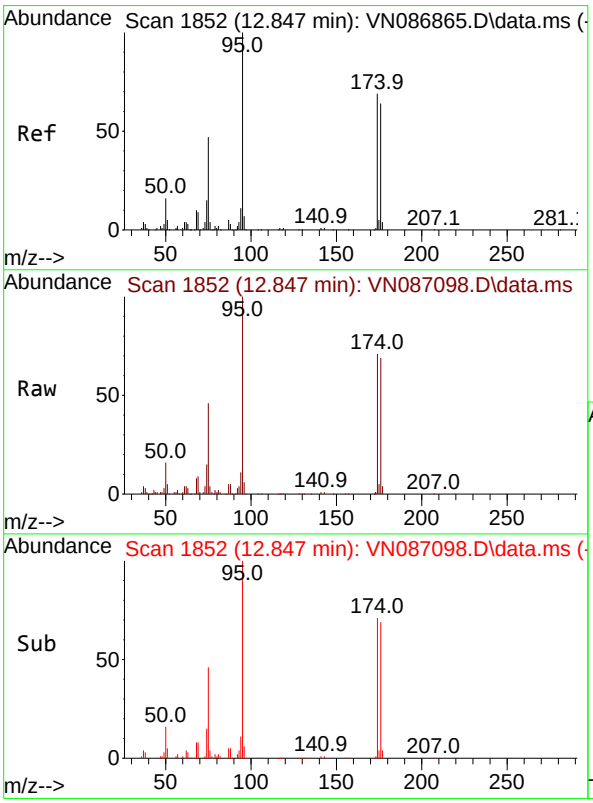
#61
1,2-Dibromoethane
Concen: 52.343 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 125069

Ion	Ratio	Lower	Upper
107	100		
109	95.9	76.3	114.5

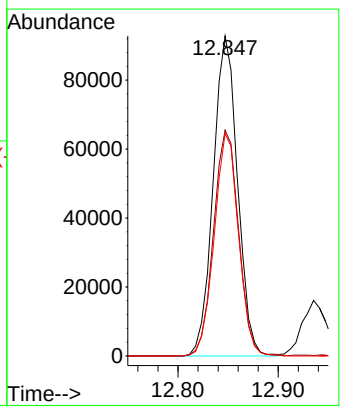


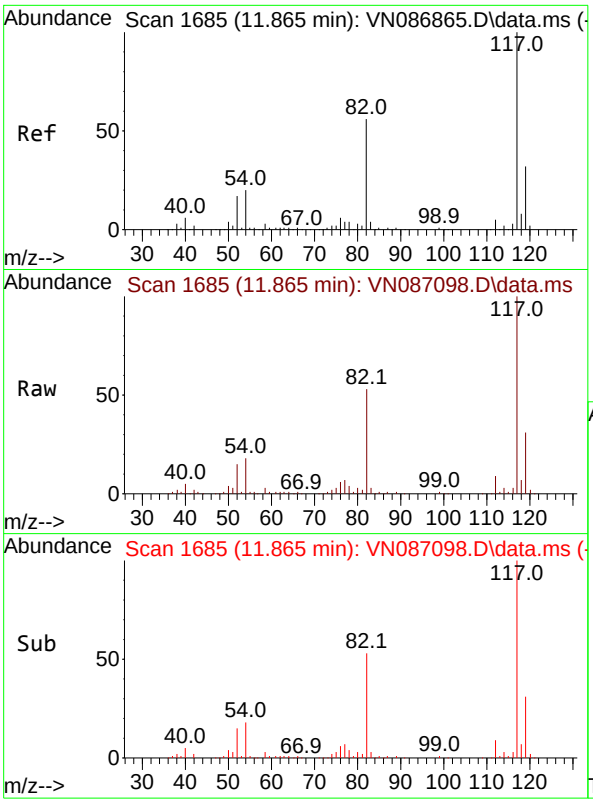


#62
4-Bromofluorobenzene
Concen: 52.246 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 95 Resp: 156337

Ion	Ratio	Lower	Upper
95	100		
174	72.3	0.0	141.8
176	69.5	0.0	132.6



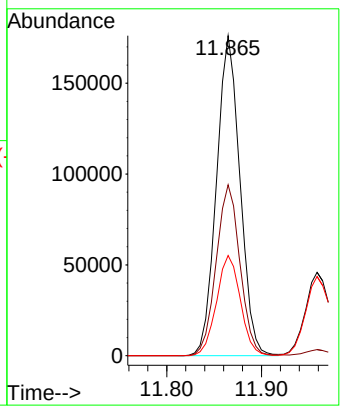


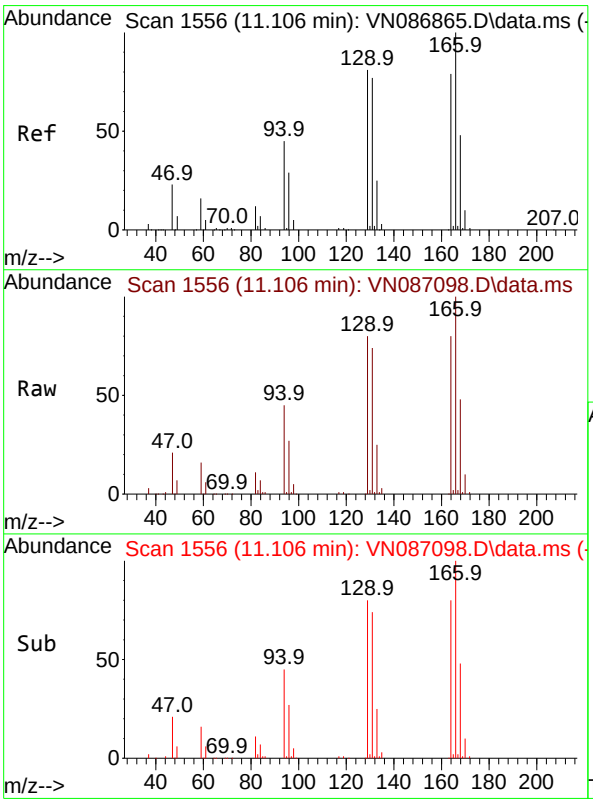
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 303826

Ion	Ratio	Lower	Upper
117	100		
82	53.4	44.6	67.0
119	31.3	25.5	38.3

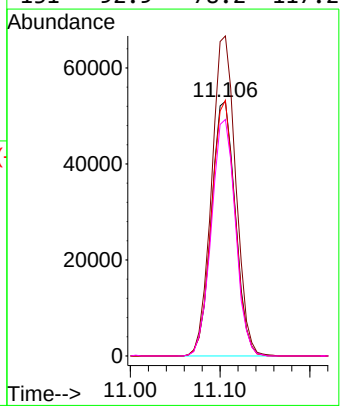


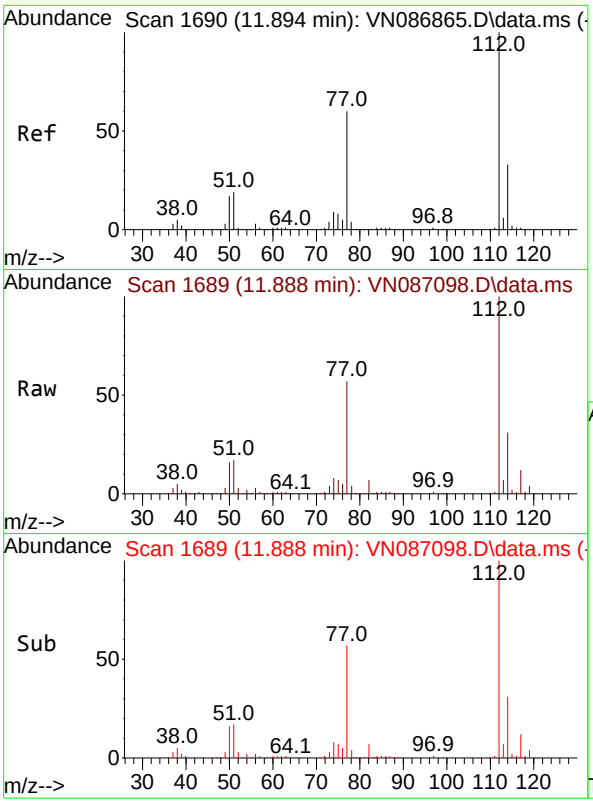


#64
Tetrachloroethene
Concen: 51.129 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:164 Resp: 98311

Ion	Ratio	Lower	Upper
164	100		
166	125.7	101.8	152.8
129	100.5	83.0	124.4
131	92.9	78.2	117.2



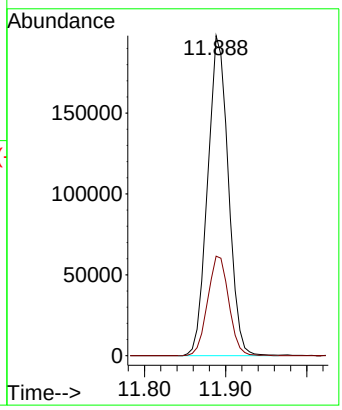


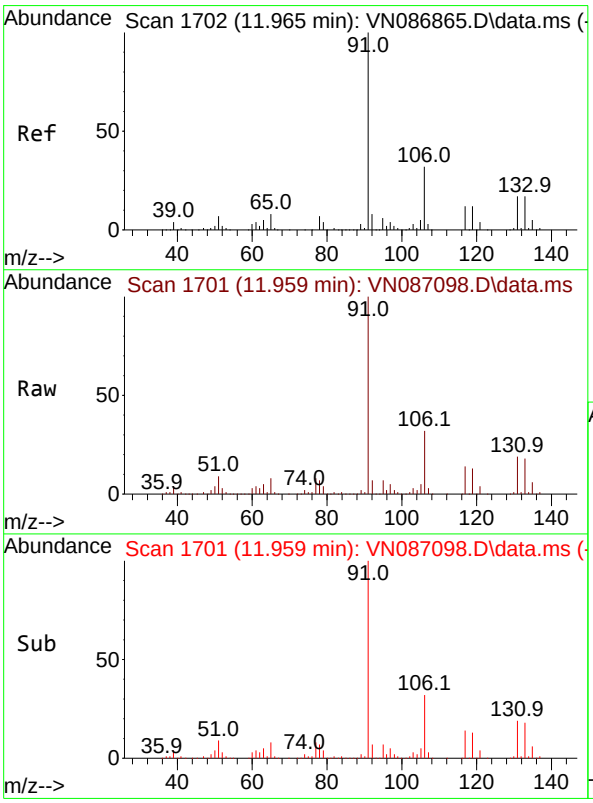
#65
Chlorobenzene
Concen: 52.261 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 350202

Ion	Ratio	Lower	Upper
112	100		
114	31.1	26.2	39.2

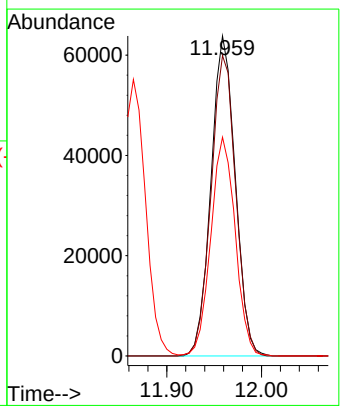


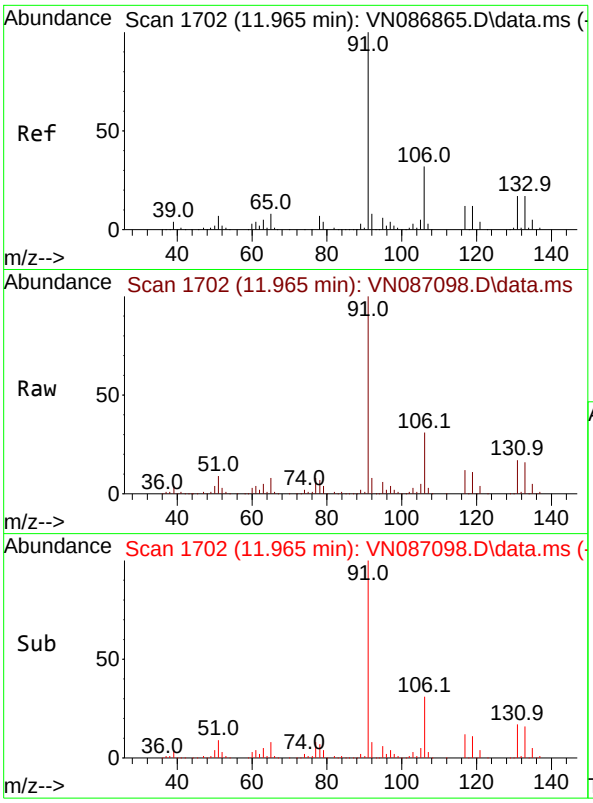


#66
1,1,1,2-Tetrachloroethane
Concen: 52.707 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:131 Resp: 113531

Ion	Ratio	Lower	Upper
131	100		
133	95.7	48.3	144.8
119	68.9	34.0	101.8



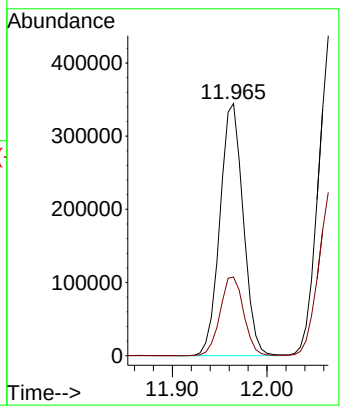


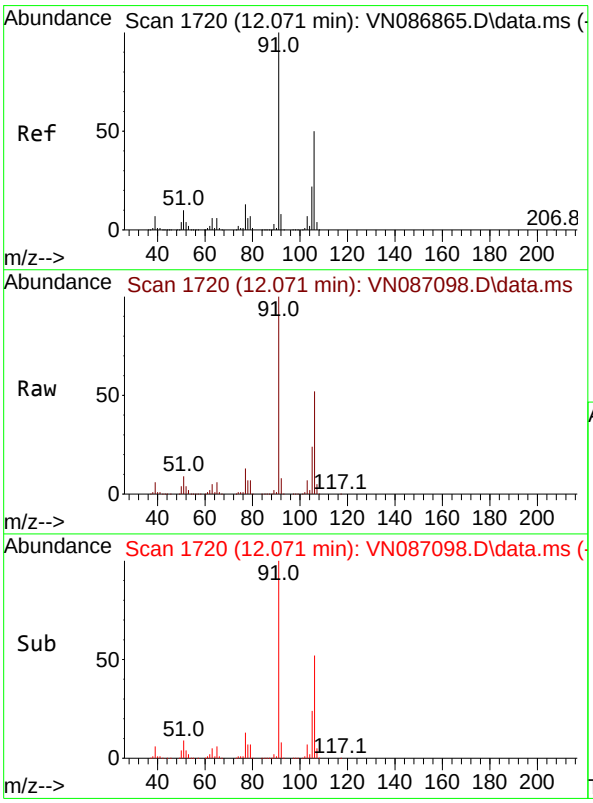
#67
Ethyl Benzene
Concen: 51.046 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 589188

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.4	38.2

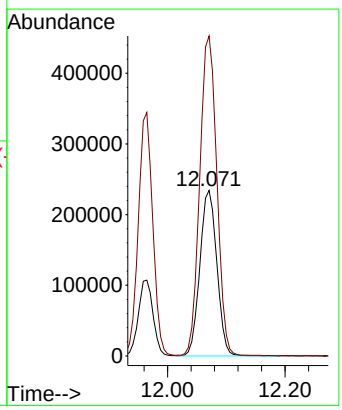


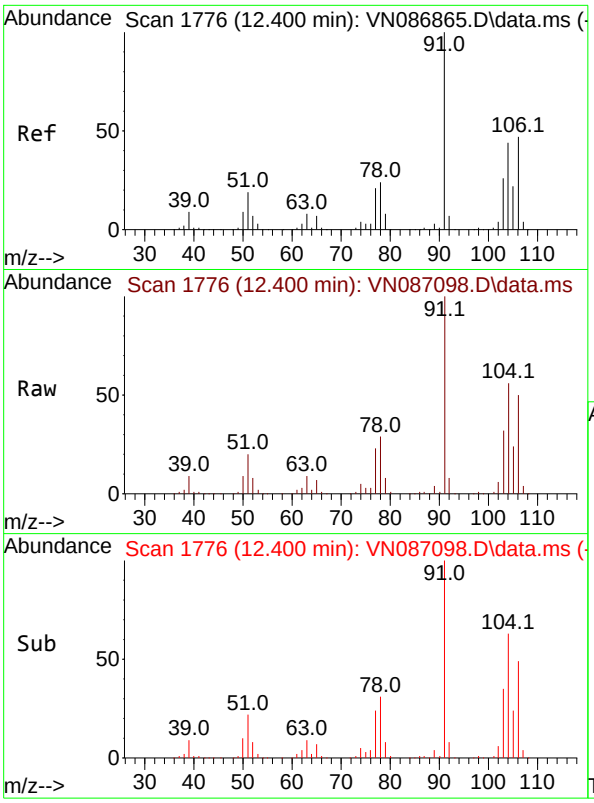


#68
m/p-Xylenes
Concen: 105.923 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:106 Resp: 468010

Ion	Ratio	Lower	Upper
106	100		
91	195.0	159.4	239.0



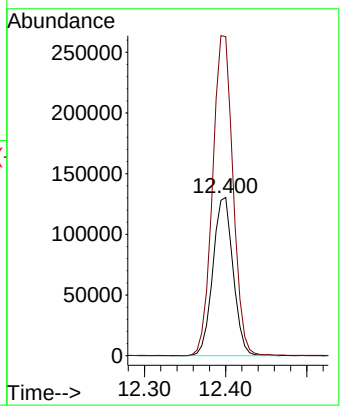


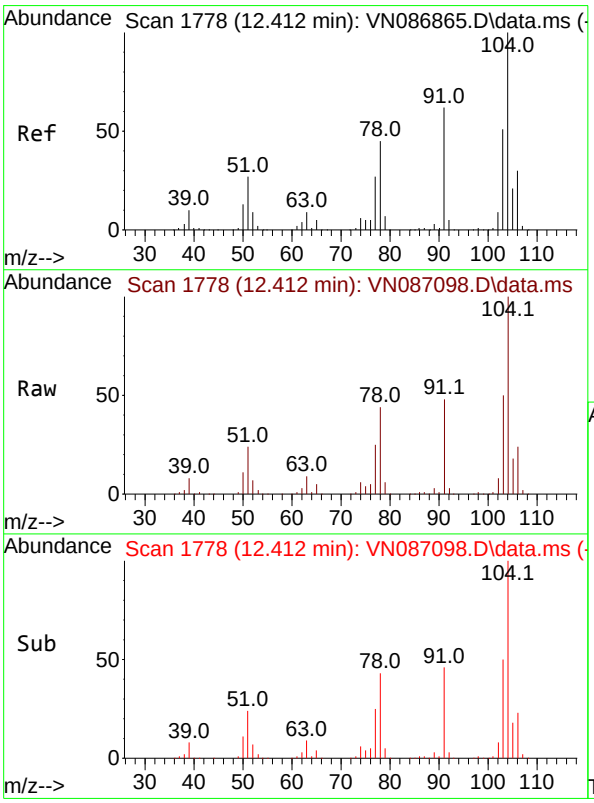
#69
o-Xylene
Concen: 53.380 ug/l
RT: 12.400 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 225888

Ion	Ratio	Lower	Upper
106	100		
91	204.9	106.1	318.1

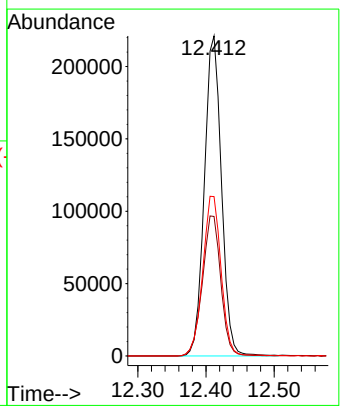


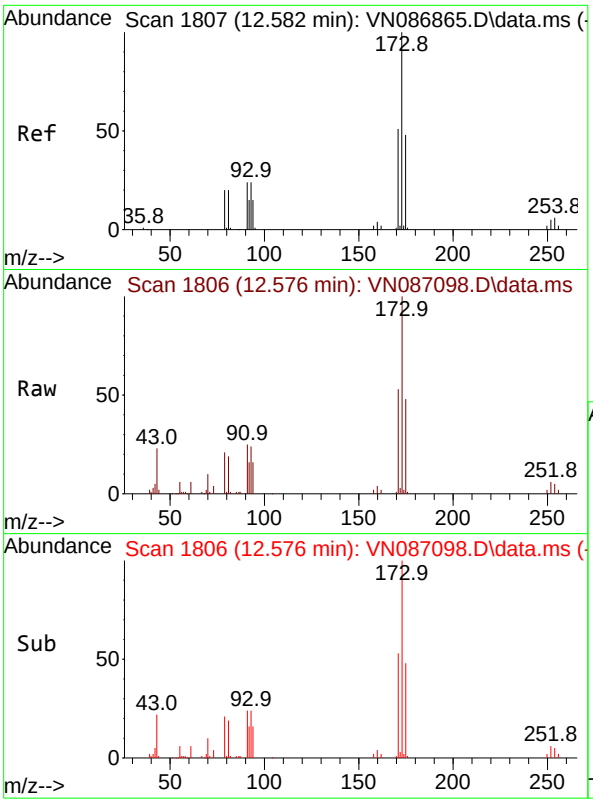


#70
Styrene
Concen: 53.338 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:104 Resp: 386227

Ion	Ratio	Lower	Upper
104	100		
78	47.1	38.5	57.7
103	53.6	43.1	64.7



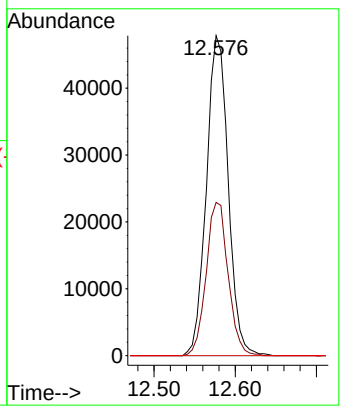


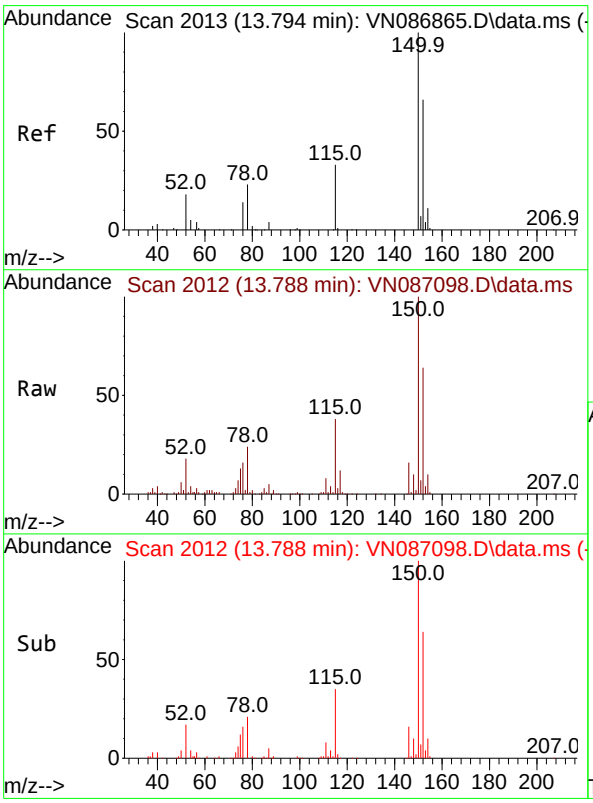
#71
Bromoform
Concen: 55.877 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 89180

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.1	72.4
254	0.0	0.0	0.0

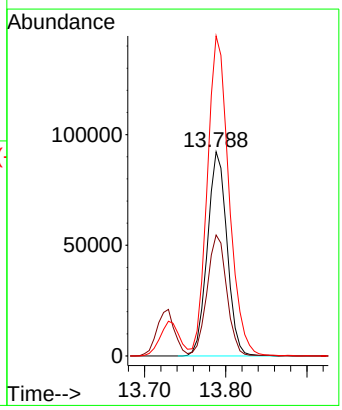


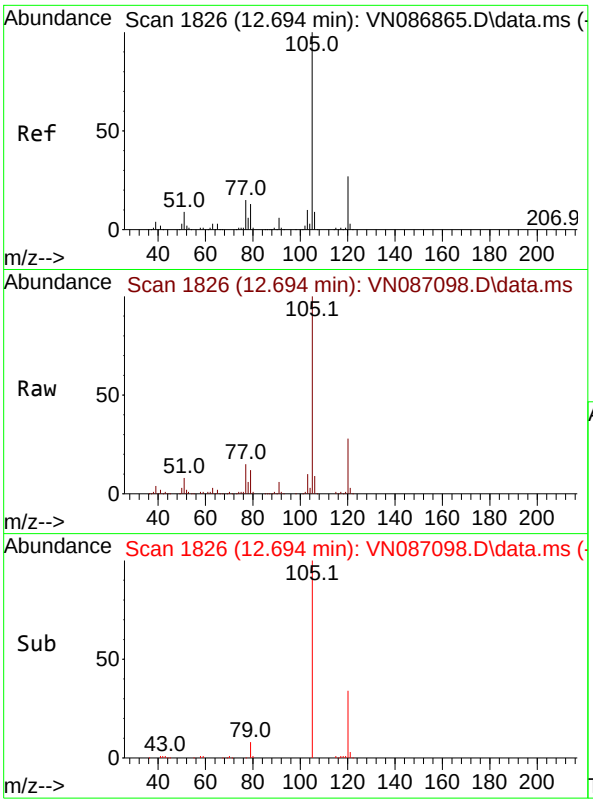


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:152 Resp: 154355

Ion	Ratio	Lower	Upper
152	100		
115	58.9	30.1	90.5
150	173.9	0.0	345.0



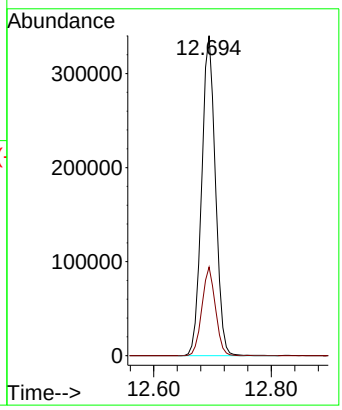


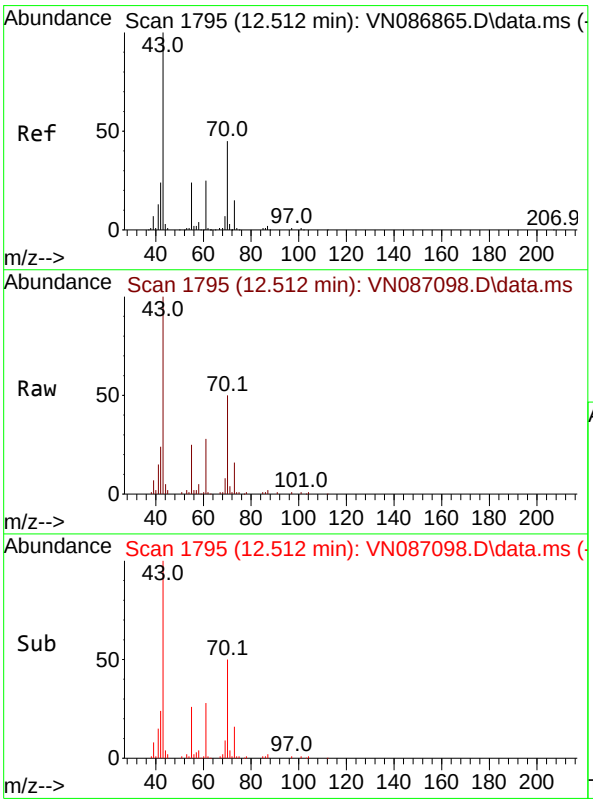
#73
Isopropylbenzene
Concen: 49.133 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 552495

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.5	40.4

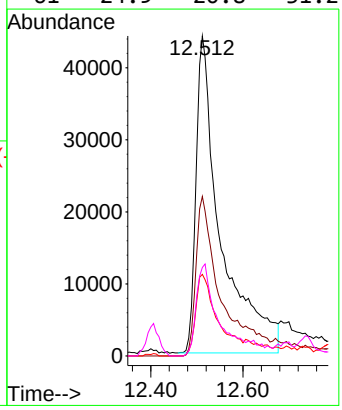


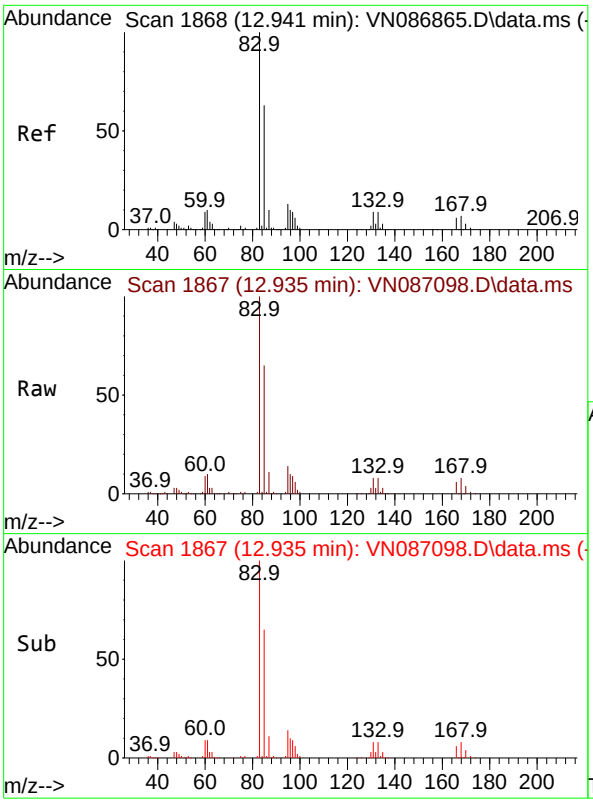


#74
N-amyl acetate
Concen: 41.777 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 43 Resp: 164161

Ion	Ratio	Lower	Upper
43	100		
70	50.3	37.6	56.4
55	23.0	19.0	28.6
61	24.9	20.8	31.2



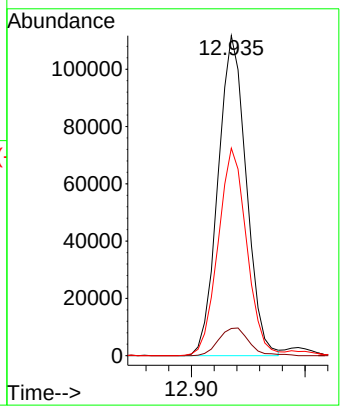


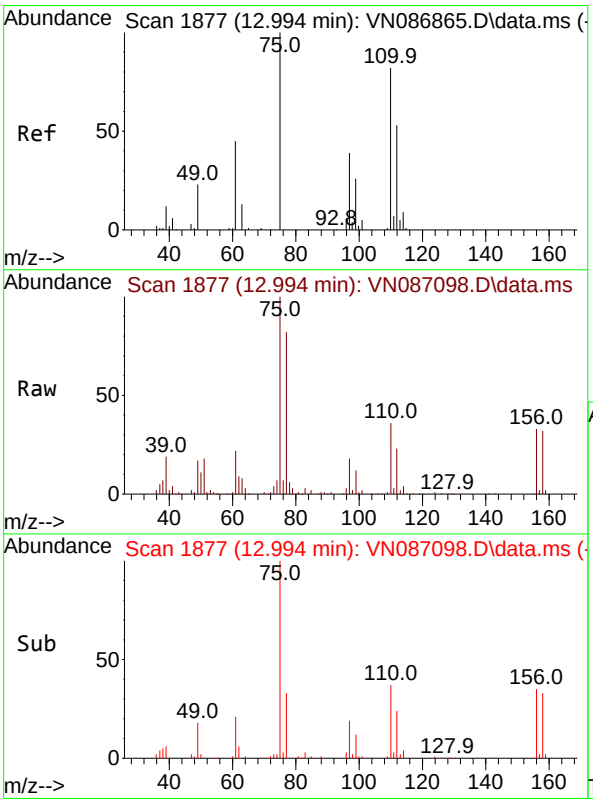
#75
1,1,2,2-Tetrachloroethane
Concen: 50.650 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 192951

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.9	14.7
85	65.7	32.0	96.0

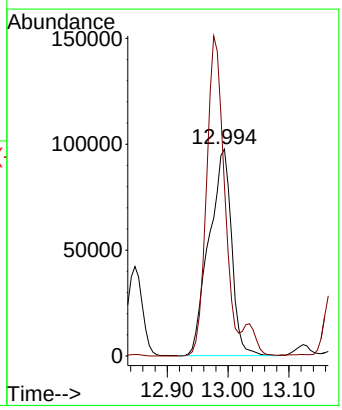


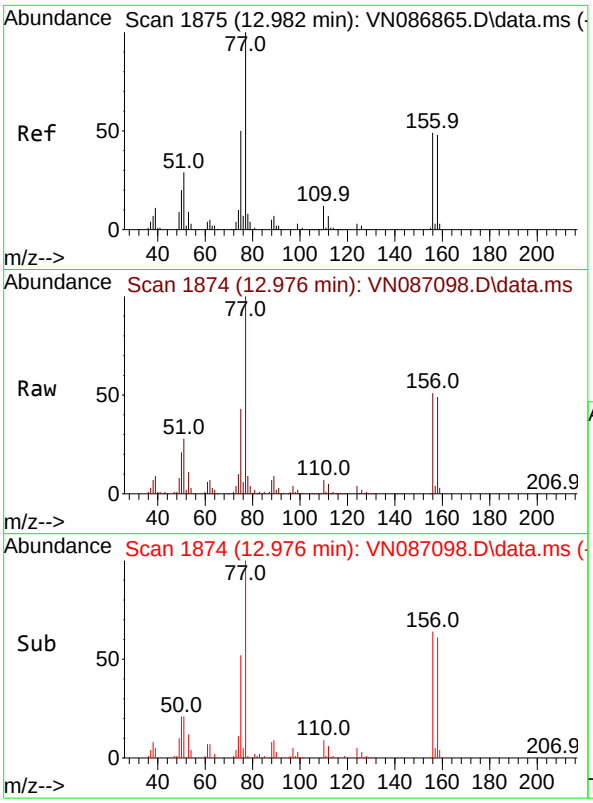


#76
1,2,3-Trichloropropane
Concen: 68.442 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 75 Resp: 251119

Ion	Ratio	Lower	Upper
75	100		
77	121.8	79.3	237.9



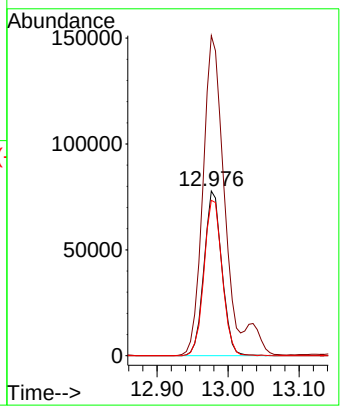


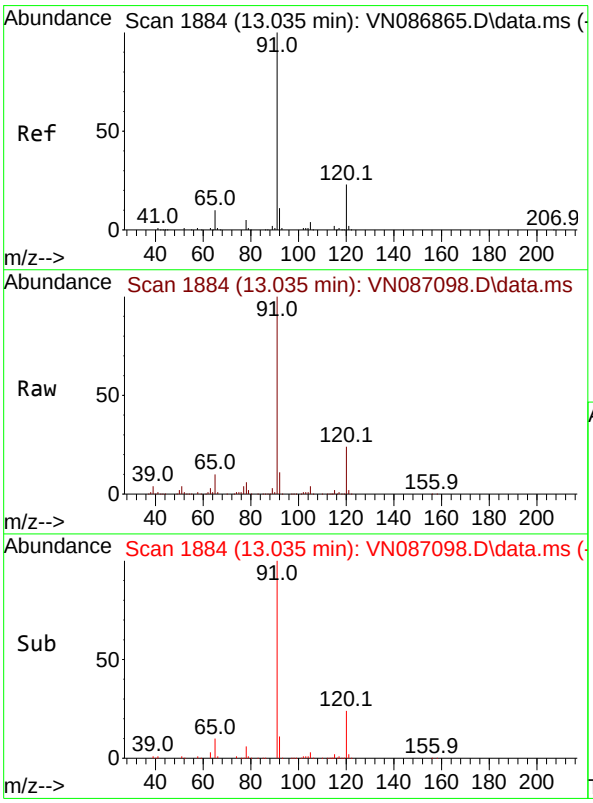
#77
Bromobenzene
Concen: 52.642 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 135755

Ion	Ratio	Lower	Upper
156	100		
77	225.4	117.7	353.1
158	96.1	48.1	144.4

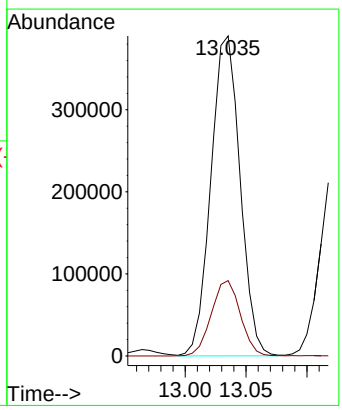


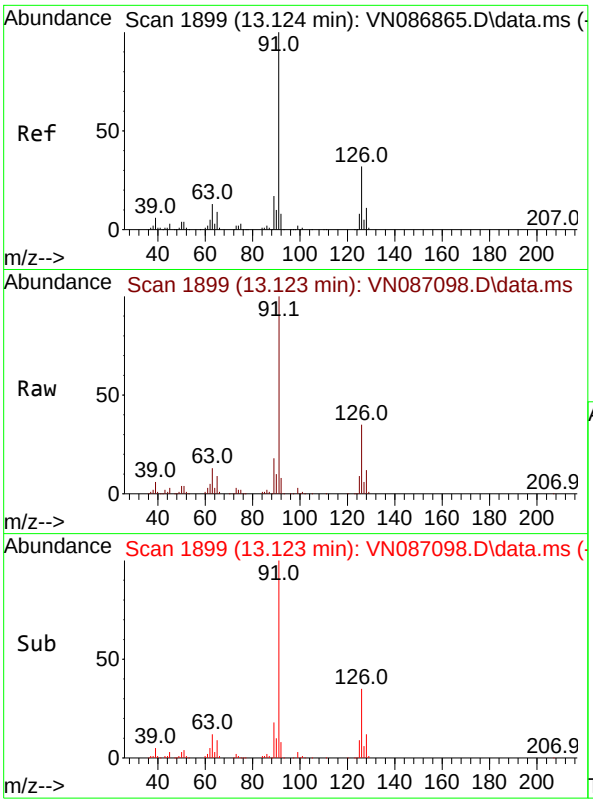


#78
n-propylbenzene
Concen: 47.599 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 91 Resp: 650467

Ion	Ratio	Lower	Upper
91	100		
120	23.4	11.4	34.2



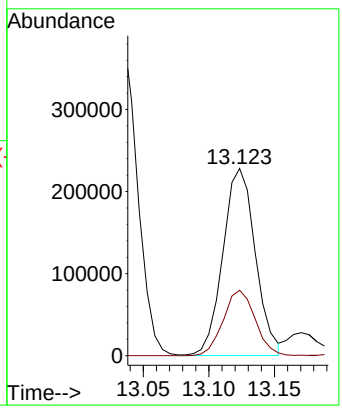


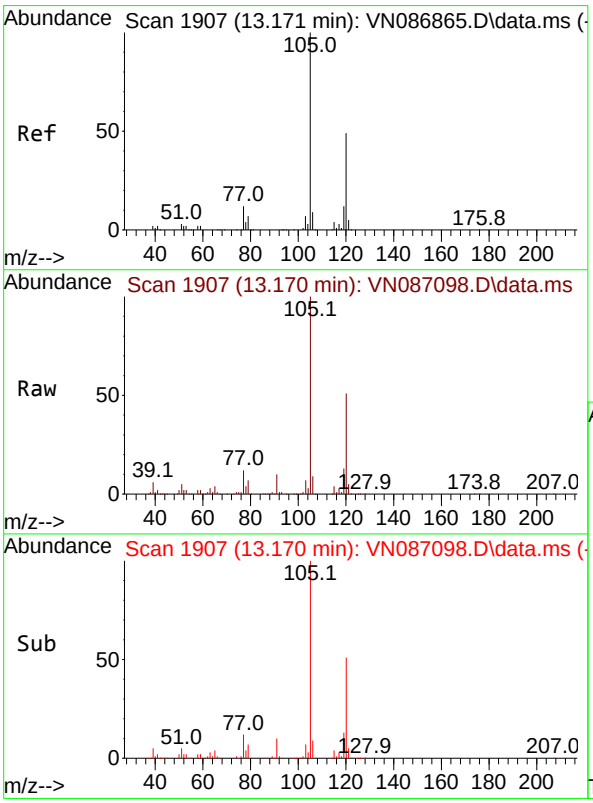
#79
2-Chlorotoluene
Concen: 47.985 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 393256

Ion	Ratio	Lower	Upper
91	100		
126	34.4	16.2	48.5

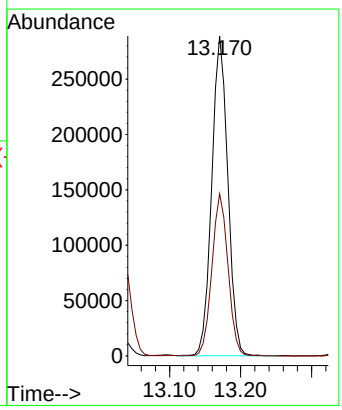


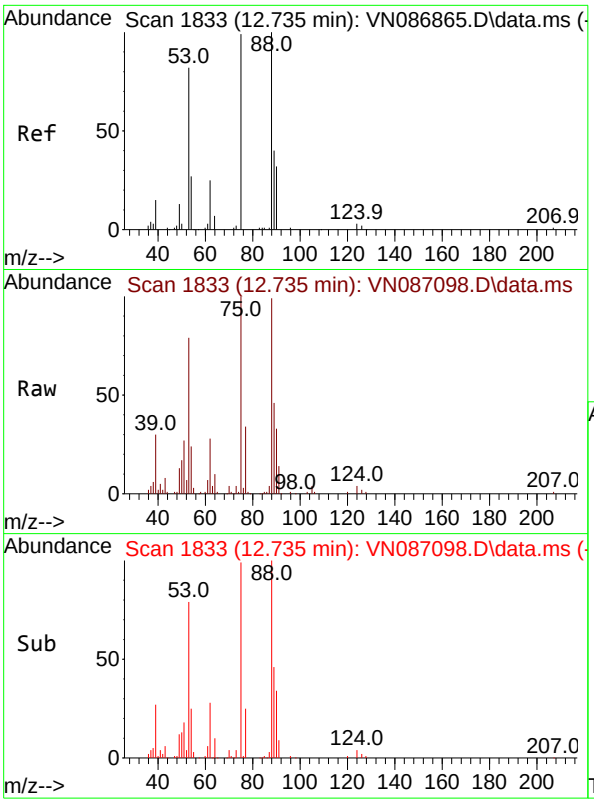


#80
1,3,5-Trimethylbenzene
Concen: 48.716 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:105 Resp: 452283

Ion	Ratio	Lower	Upper
105	100		
120	50.9	24.9	74.6



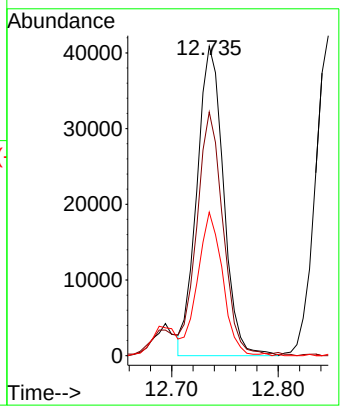


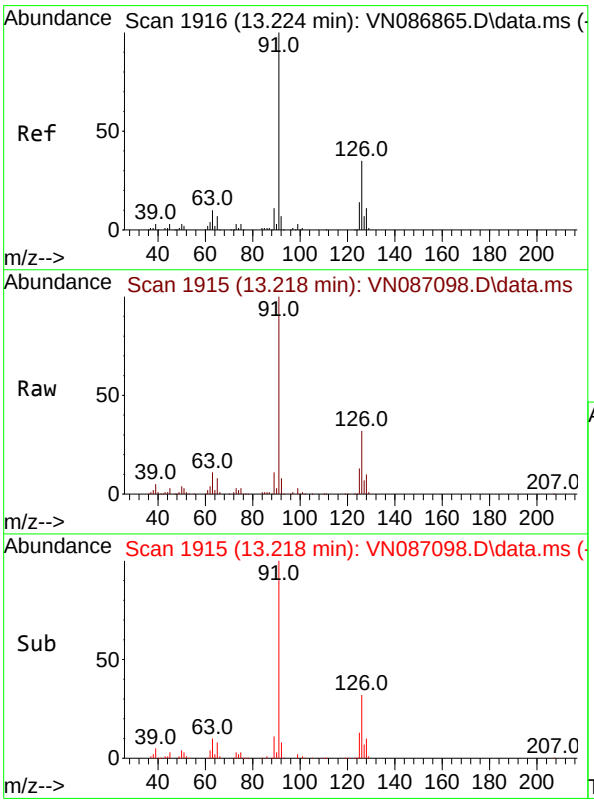
#81
trans-1,4-Dichloro-2-butene
Concen: 44.581 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 71058

Ion	Ratio	Lower	Upper
75	100		
53	76.1	66.6	99.8
89	44.0	36.7	55.1

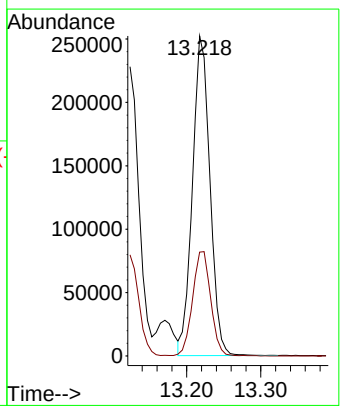


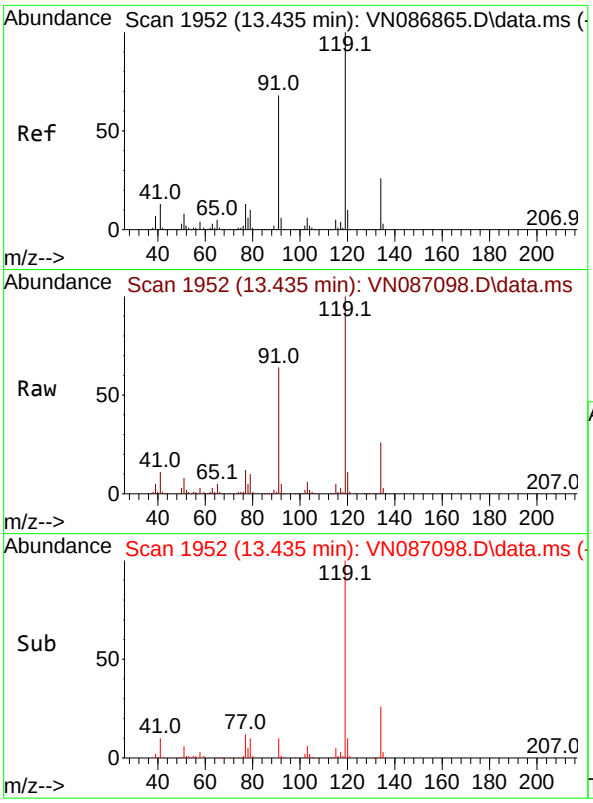


#82
4-Chlorotoluene
Concen: 49.727 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 91 Resp: 412348

Ion	Ratio	Lower	Upper
91	100		
126	34.1	16.7	50.1



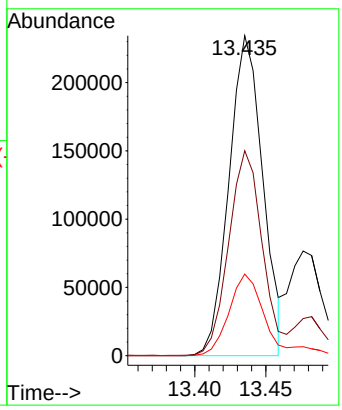


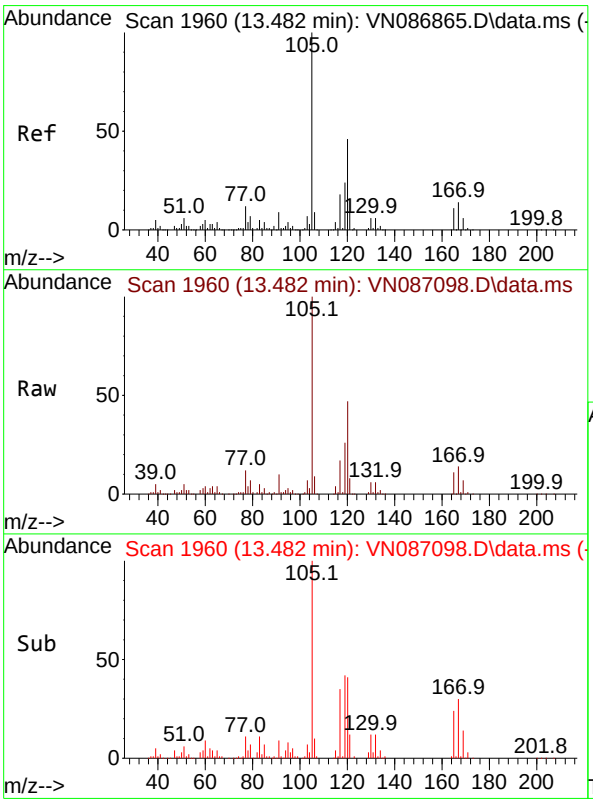
#83
tert-Butylbenzene
Concen: 45.565 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 387224

Ion	Ratio	Lower	Upper
119	100		
91	64.0	32.1	96.5
134	27.7	13.4	40.1

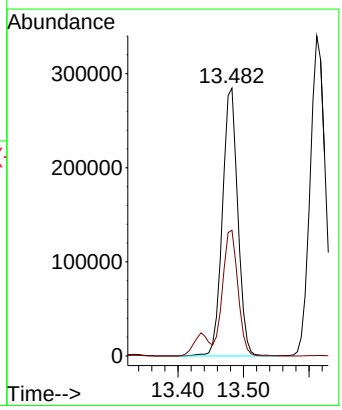


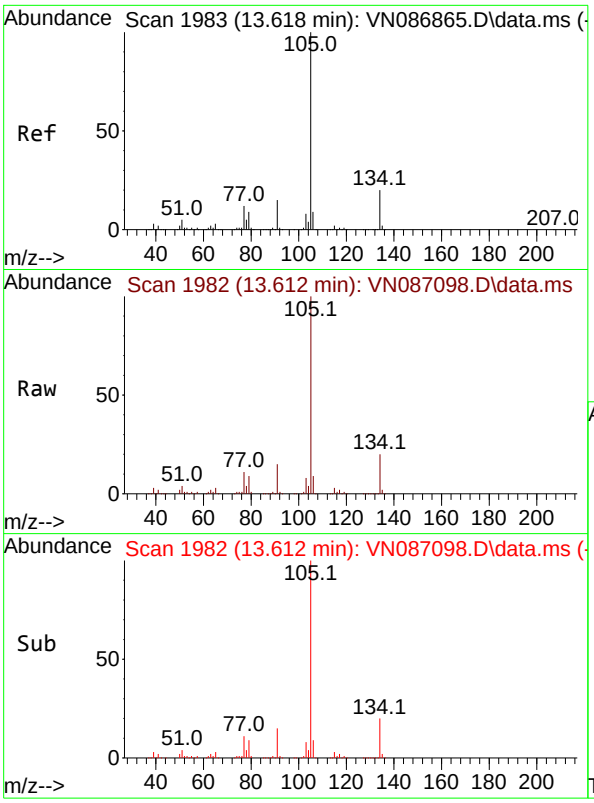


#84
1,2,4-Trimethylbenzene
Concen: 49.739 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:105 Resp: 463050

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.2	69.6



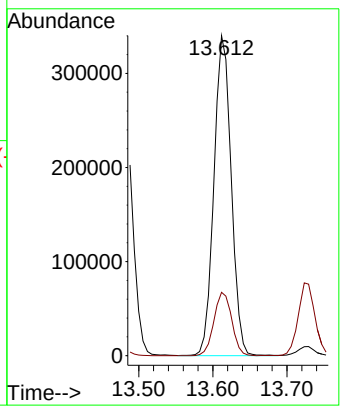


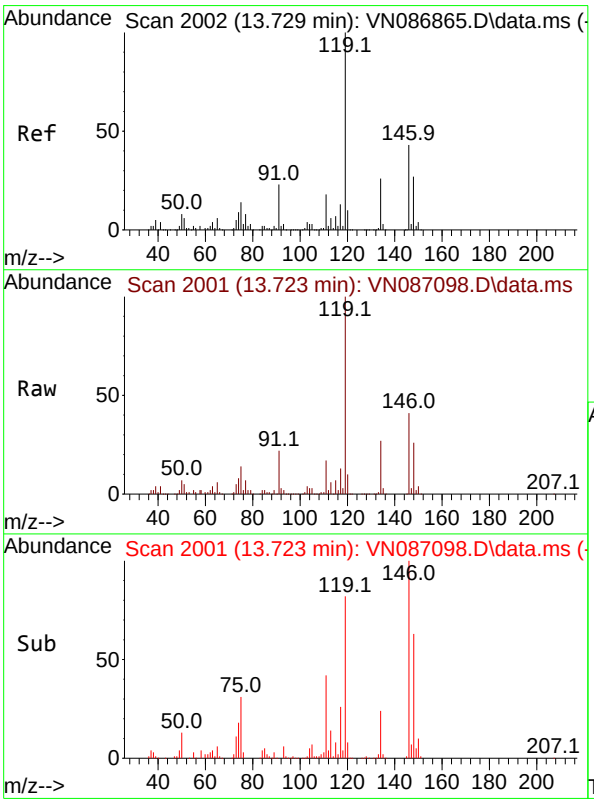
#85
sec-Butylbenzene
Concen: 44.660 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 551168

Ion	Ratio	Lower	Upper
105	100		
134	20.3	10.0	30.0

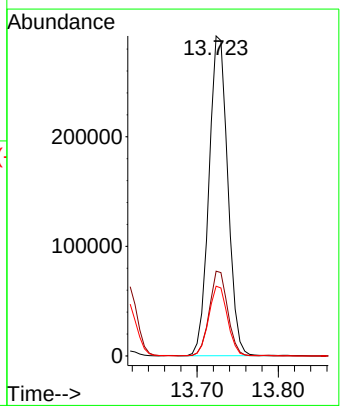


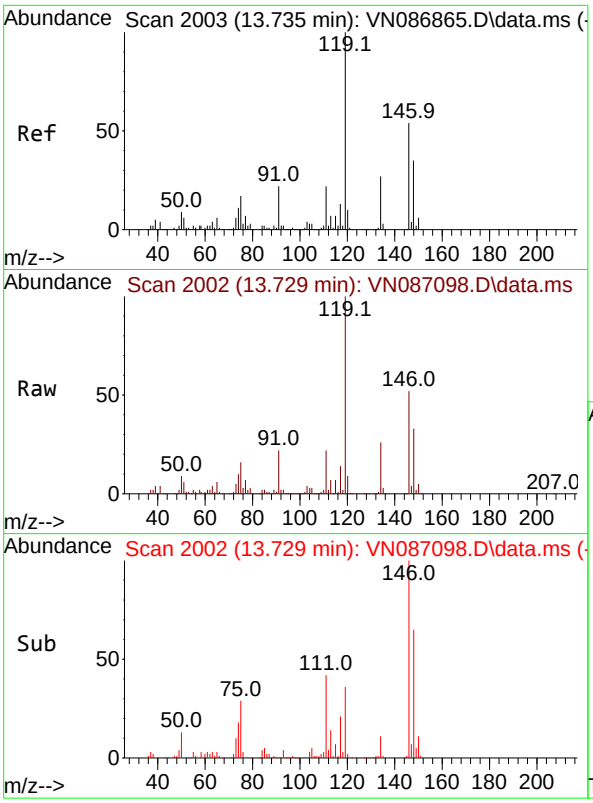


#86
p-Isopropyltoluene
Concen: 45.914 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:119 Resp: 468408

Ion	Ratio	Lower	Upper
119	100		
134	26.0	13.5	40.4
91	21.7	11.5	34.4



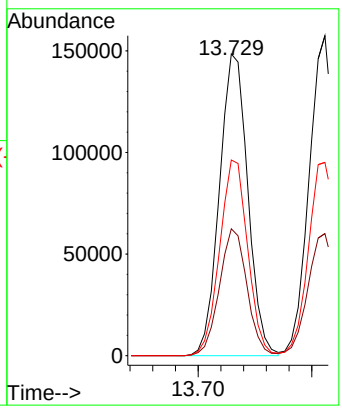


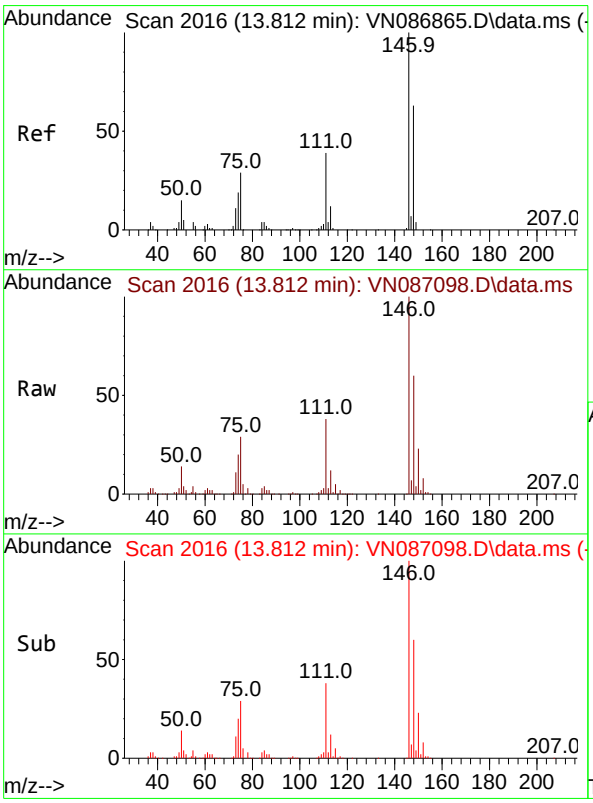
#87
1,3-Dichlorobenzene
Concen: 50.814 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 257823

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.9	62.8
148	64.1	32.0	96.2

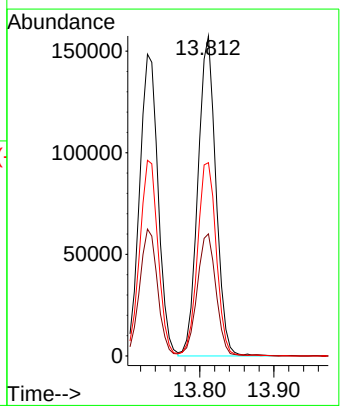


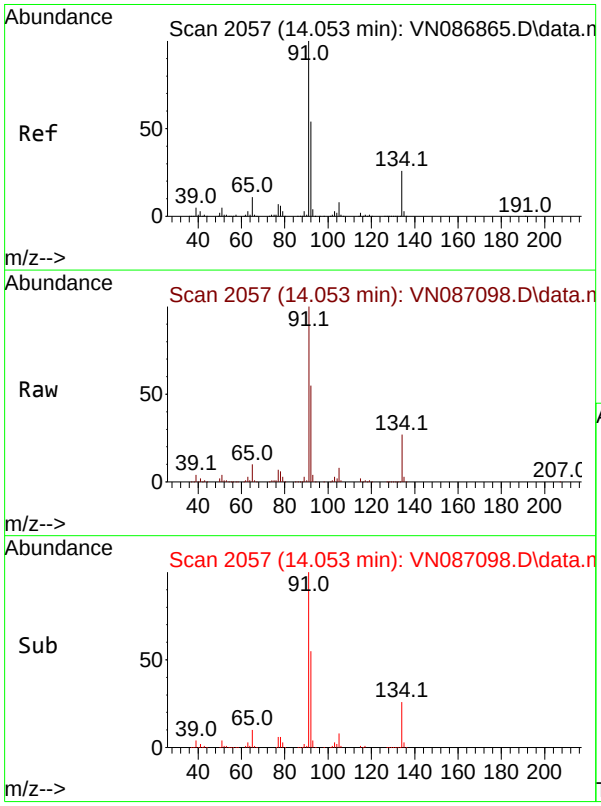


#88
1,4-Dichlorobenzene
Concen: 51.268 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:146 Resp: 265204

Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.9	59.7
148	63.2	31.8	95.4



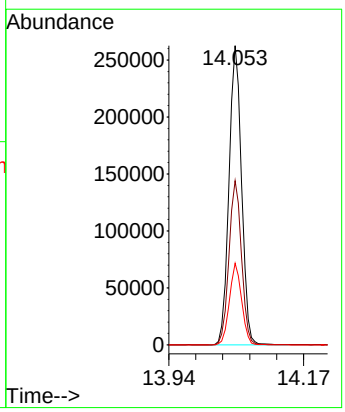


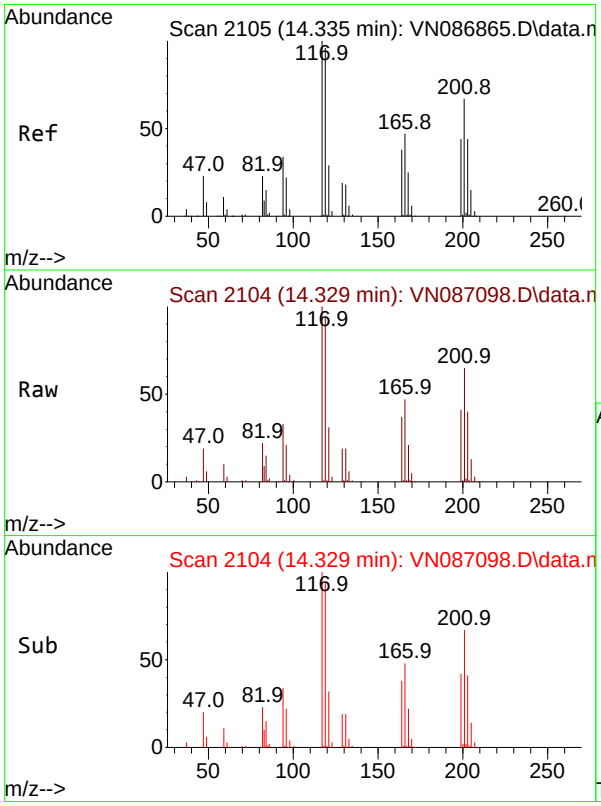
#89
n-Butylbenzene
Concen: 41.149 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 406621

Ion	Ratio	Lower	Upper
91	100		
92	54.8	27.5	82.4
134	26.5	13.0	39.0

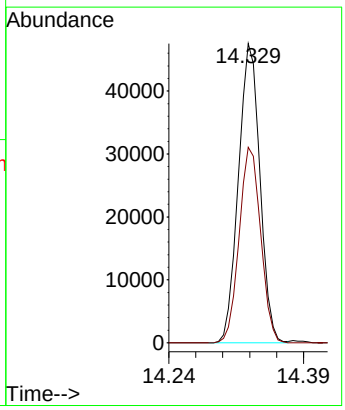


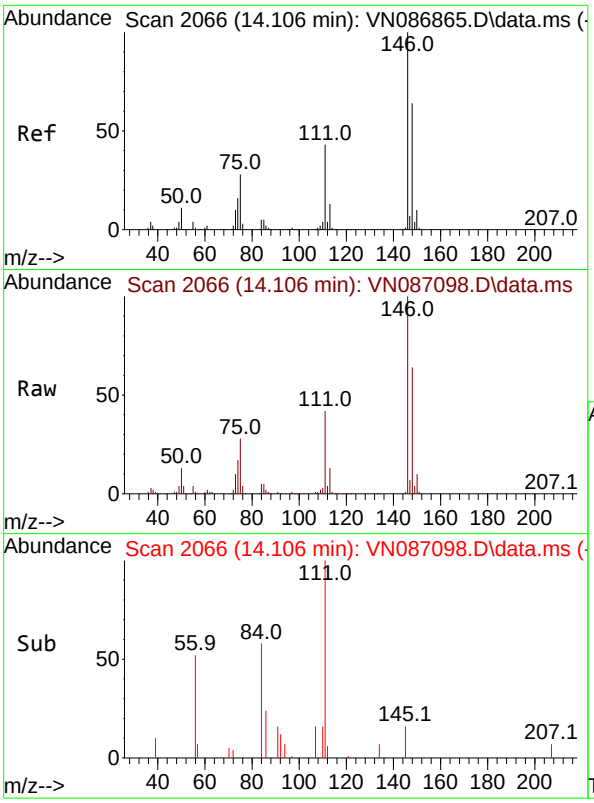


#90
Hexachloroethane
Concen: 48.590 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:117 Resp: 84025

Ion	Ratio	Lower	Upper
117	100		
201	65.4	33.2	99.6



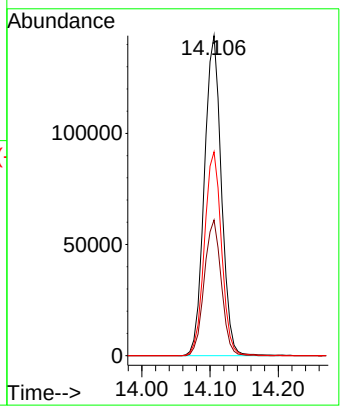


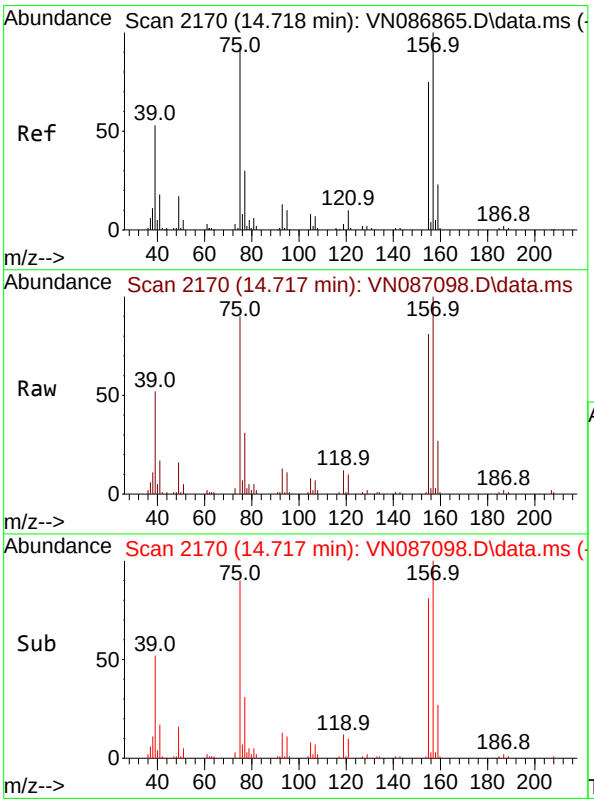
#91
1,2-Dichlorobenzene
Concen: 51.301 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 250075

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.6	64.6
148	63.9	31.7	95.1

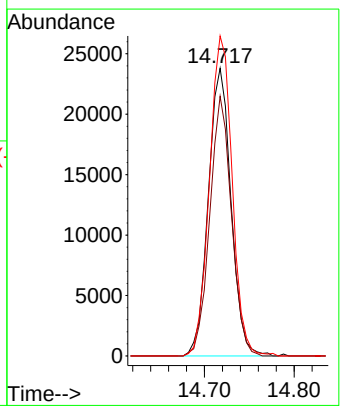


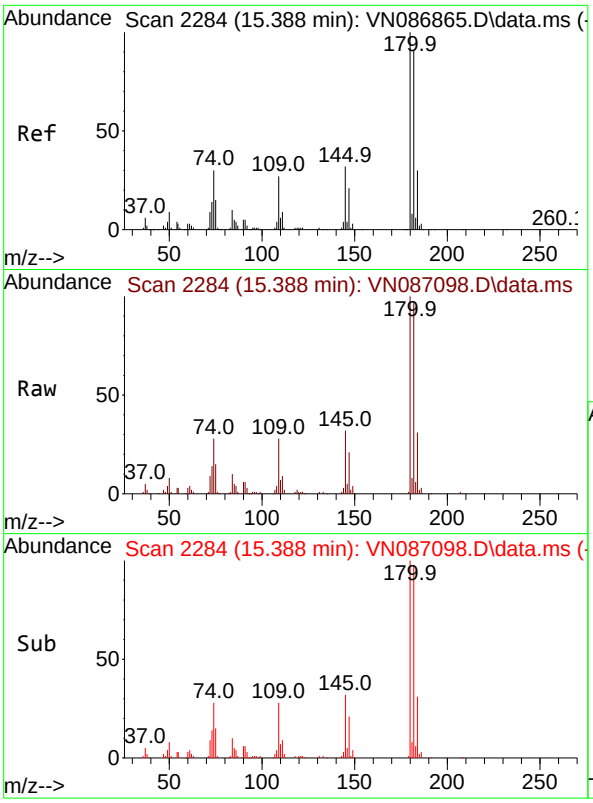


#92
1,2-Dibromo-3-Chloropropane
Concen: 45.944 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion: 75 Resp: 41858

Ion	Ratio	Lower	Upper
75	100		
155	86.2	41.1	123.4
157	111.4	52.7	158.1



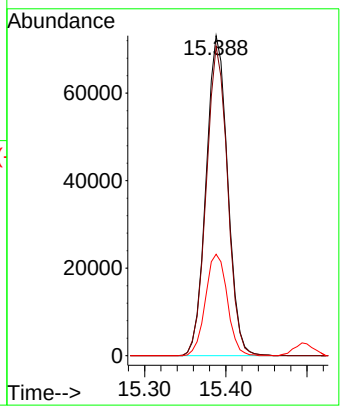


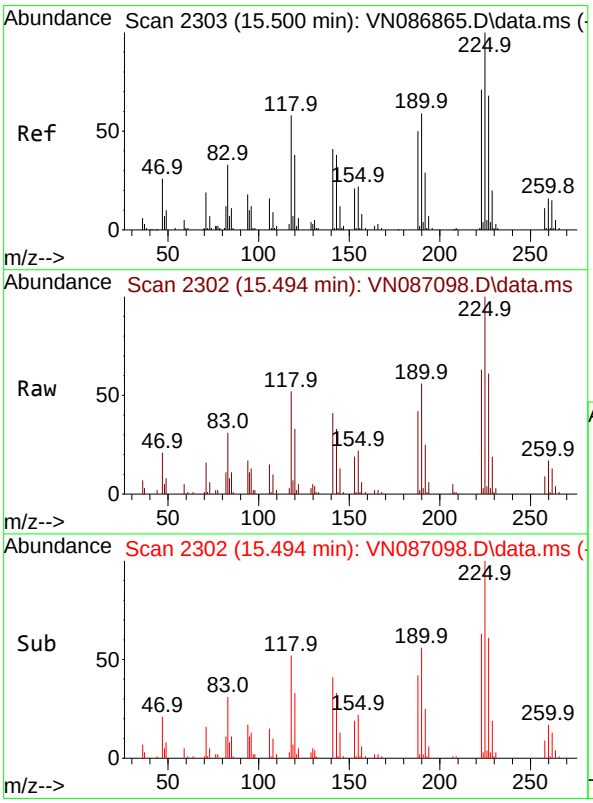
#93
1,2,4-Trichlorobenzene
Concen: 43.387 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 135052

Ion	Ratio	Lower	Upper
180	100		
182	95.6	46.9	140.7
145	32.0	16.0	47.9

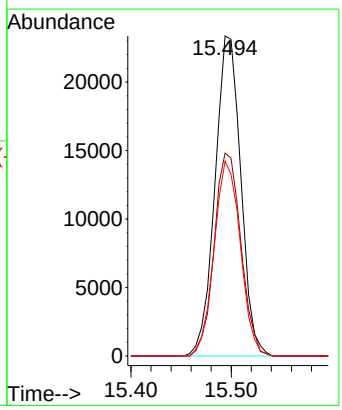


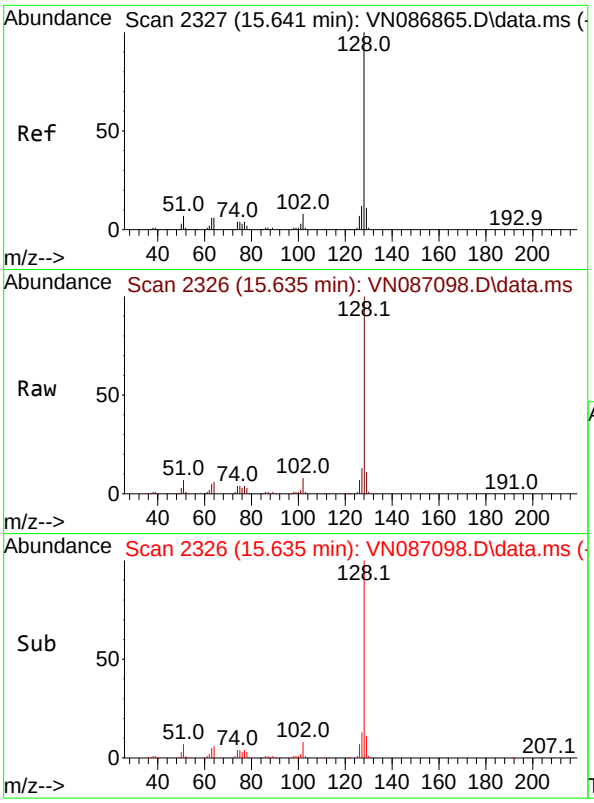


#94
Hexachlorobutadiene
Concen: 35.974 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:225 Resp: 41719

Ion	Ratio	Lower	Upper
225	100		
223	65.6	33.5	100.4
227	62.0	31.1	93.5



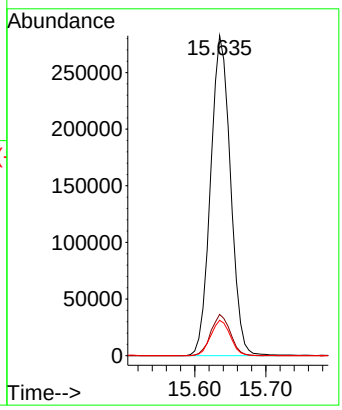


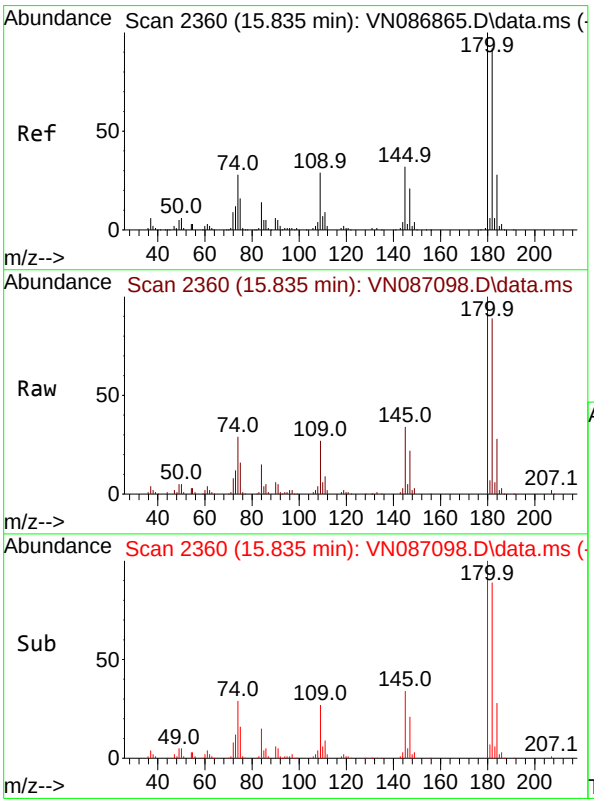
#95
Naphthalene
Concen: 47.504 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 550393

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.9	8.8	13.2

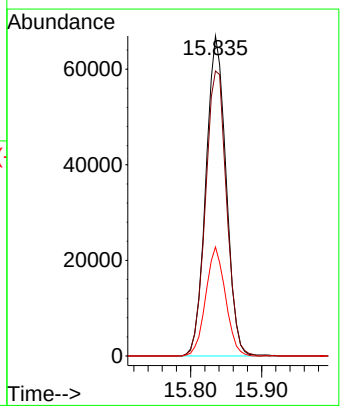




#96
1,2,3-Trichlorobenzene
Concen: 42.701 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087098.D
Acq: 18 Jun 2025 19:42

Tgt Ion:180 Resp: 132061

Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.0	141.0
145	33.3	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.229	168	157053	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.106	114	278046	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.865	117	245271	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	126484	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.582	65	94849	45.107	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 90.220%				
35) Dibromofluoromethane	8.171	113	82354	49.979	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.960%				
50) Toluene-d8	10.565	98	304189	46.633	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.260%				
62) 4-Bromofluorobenzene	12.847	95	114266	47.149	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.300%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.153	85	91821	58.637	ug/l		99
3) Chloromethane	2.395	50	99602	49.257	ug/l		98
4) Vinyl Chloride	2.553	62	128030	61.379	ug/l		98
5) Bromomethane	2.995	94	63194	54.137	ug/l		96
6) Chloroethane	3.153	64	79682	59.139	ug/l		96
7) Trichlorofluoromethane	3.530	101	159307	58.455	ug/l		98
8) Diethyl Ether	3.983	74	66903	56.344	ug/l		95
9) 1,1,2-Trichlorotrifluo...	4.400	101	99010	57.825	ug/l		98
10) Methyl Iodide	4.606	142	79070	35.624	ug/l	#	91
11) Tert butyl alcohol	5.536	59	132196	231.693	ug/l		99
12) 1,1-Dichloroethene	4.371	96	102722	58.764	ug/l		94
13) Acrolein	4.200	56	75576	418.463	ug/l		99
14) Allyl chloride	5.047	41	149234	51.477	ug/l		95
15) Acrylonitrile	5.736	53	351875	263.851	ug/l		100
16) Acetone	4.441	43	285191	255.751	ug/l		100
17) Carbon Disulfide	4.736	76	296271	61.273	ug/l		98
18) Methyl Acetate	5.047	43	148831	45.799	ug/l		97
19) Methyl tert-butyl Ether	5.818	73	347549	54.911	ug/l		98
20) Methylene Chloride	5.300	84	115852	55.493	ug/l		97
21) trans-1,2-Dichloroethene	5.806	96	110371	56.750	ug/l		96
22) Diisopropyl ether	6.683	45	321446	52.602	ug/l		95
23) Vinyl Acetate	6.618	43	1411385	273.362	ug/l		98
24) 1,1-Dichloroethane	6.583	63	198785	56.526	ug/l		99
25) 2-Butanone	7.488	43	441572	243.615	ug/l		97
26) 2,2-Dichloropropane	7.500	77	171090	62.543	ug/l		100
27) cis-1,2-Dichloroethene	7.500	96	131103	56.366	ug/l		99
28) Bromochloromethane	7.824	49	81165	46.941	ug/l		94
29) Tetrahydrofuran	7.847	42	289933	245.546	ug/l		95
30) Chloroform	7.971	83	195599	55.695	ug/l		100
31) Cyclohexane	8.265	56	176136	51.646	ug/l		96
32) 1,1,1-Trichloroethane	8.177	97	169121	56.618	ug/l		99
36) 1,1-Dichloropropene	8.377	75	145323	59.187	ug/l		99
37) Ethyl Acetate	7.565	43	165466	52.938	ug/l		98
38) Carbon Tetrachloride	8.371	117	142286	59.026	ug/l		99
39) Methylcyclohexane	9.606	83	166872	49.607	ug/l		97
40) Benzene	8.612	78	460485	57.353	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.782	41	89696	51.098 ug/l		93
42) 1,2-Dichloroethane	8.677	62	137283	56.372 ug/l		99
43) Isopropyl Acetate	8.694	43	255218	50.874 ug/l		96
44) Trichloroethene	9.353	130	112240	58.955 ug/l		99
45) 1,2-Dichloropropane	9.624	63	111438	57.050 ug/l		99
46) Dibromomethane	9.712	93	76751	59.155 ug/l		99
47) Bromodichloromethane	9.888	83	152931	57.289 ug/l		98
48) Methyl methacrylate	9.682	41	117229	50.770 ug/l		95
49) 1,4-Dioxane	9.700	88	43879	1044.593 ug/l	#	99
51) 4-Methyl-2-Pentanone	10.447	43	805255	266.633 ug/l		98
52) Toluene	10.629	92	284384	57.958 ug/l		99
53) t-1,3-Dichloropropene	10.835	75	174988	58.623 ug/l		96
54) cis-1,3-Dichloropropene	10.312	75	185041	57.936 ug/l		98
55) 1,1,2-Trichloroethane	11.018	97	107940	57.171 ug/l		99
56) Ethyl methacrylate	10.876	69	176425	58.668 ug/l		94
57) 1,3-Dichloropropane	11.165	76	186250	56.867 ug/l		99
58) 2-Chloroethyl Vinyl ether	10.159	63	511071	284.937 ug/l		99
59) 2-Hexanone	11.200	43	532387	273.673 ug/l		94
60) Dibromochloromethane	11.359	129	117206	59.583 ug/l		99
61) 1,2-Dibromoethane	11.470	107	110430	57.064 ug/l		99
64) Tetrachloroethene	11.106	164	87272	56.223 ug/l		96
65) Chlorobenzene	11.888	112	310675	57.431 ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	101699	58.485 ug/l		99
67) Ethyl Benzene	11.965	91	524965	56.340 ug/l		99
68) m/p-Xylenes	12.070	106	417726	117.113 ug/l		98
69) o-Xylene	12.394	106	198006	57.962 ug/l		96
70) Styrene	12.412	104	342586	58.606 ug/l		99
71) Bromoform	12.576	173	78941	61.270 ug/l	#	99
73) Isopropylbenzene	12.694	105	490532	53.235 ug/l		100
74) N-amyl acetate	12.512	43	146899	45.622 ug/l	#	93
75) 1,1,2,2-Tetrachloroethane	12.935	83	169825	54.402 ug/l		100
76) 1,2,3-Trichloropropane	12.994	75	227640	75.714 ug/l		70
77) Bromobenzene	12.976	156	119991	56.782 ug/l		96
78) n-propylbenzene	13.035	91	586015	52.332 ug/l		98
79) 2-Chlorotoluene	13.123	91	352946	52.556 ug/l		98
80) 1,3,5-Trimethylbenzene	13.170	105	407528	53.568 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	65431	50.097 ug/l		98
82) 4-Chlorotoluene	13.217	91	364837	53.692 ug/l		99
83) tert-Butylbenzene	13.435	119	343353	49.305 ug/l		100
84) 1,2,4-Trimethylbenzene	13.482	105	409813	53.720 ug/l		100
85) sec-Butylbenzene	13.611	105	492411	48.691 ug/l		99
86) p-Isopropyltoluene	13.729	119	414725	49.610 ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	232408	55.899 ug/l		98
88) 1,4-Dichlorobenzene	13.811	146	231597	54.637 ug/l		100
89) n-Butylbenzene	14.053	91	365013	45.078 ug/l		99
90) Hexachloroethane	14.329	117	74155	52.332 ug/l		98
91) 1,2-Dichlorobenzene	14.106	146	220753	55.265 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	37254	49.901 ug/l		97
93) 1,2,4-Trichlorobenzene	15.388	180	120236	47.138 ug/l		100
94) Hexachlorobutadiene	15.500	225	33782	35.548 ug/l		99
95) Naphthalene	15.635	128	475311	50.063 ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	114676	45.251 ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

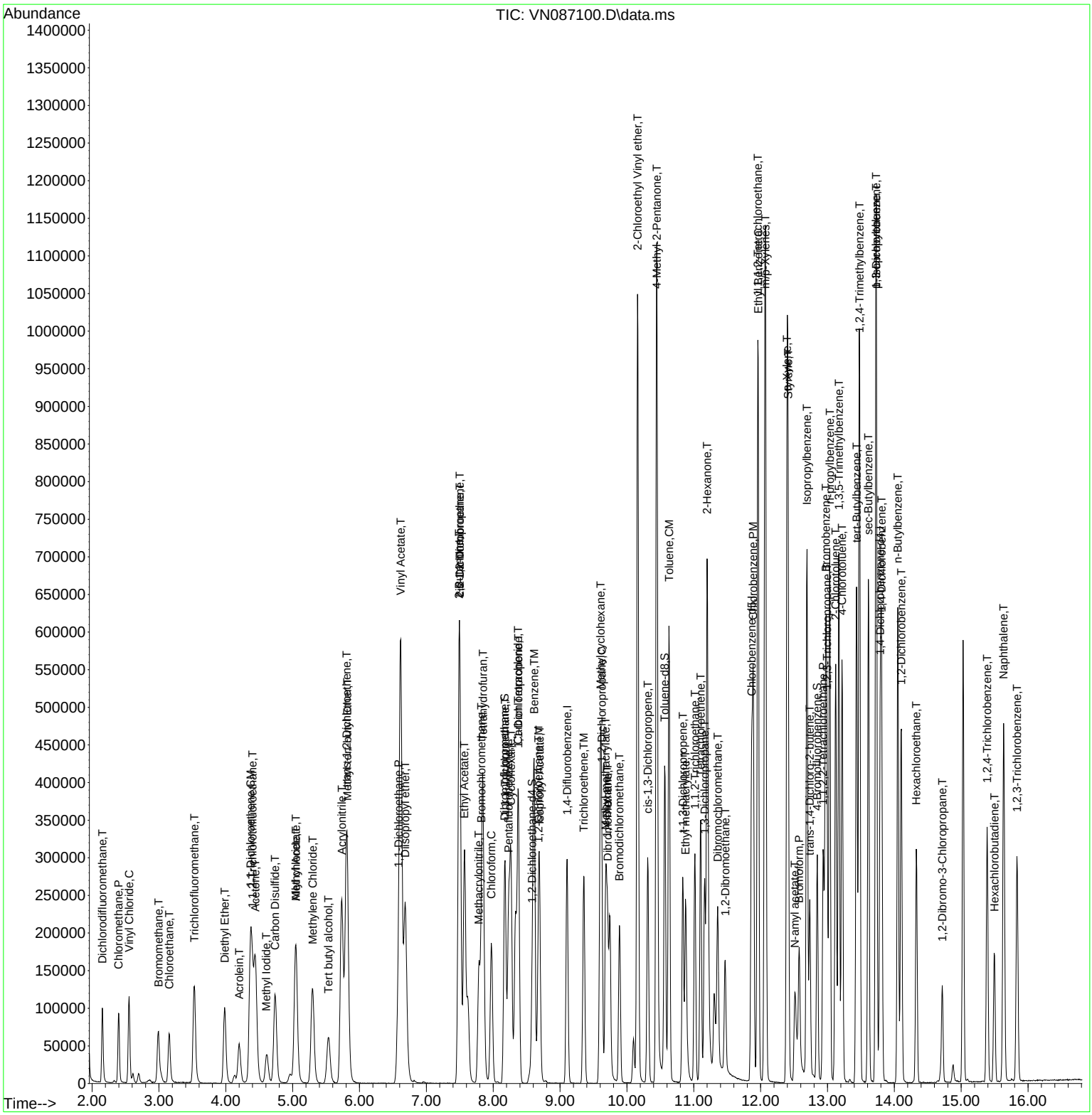
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

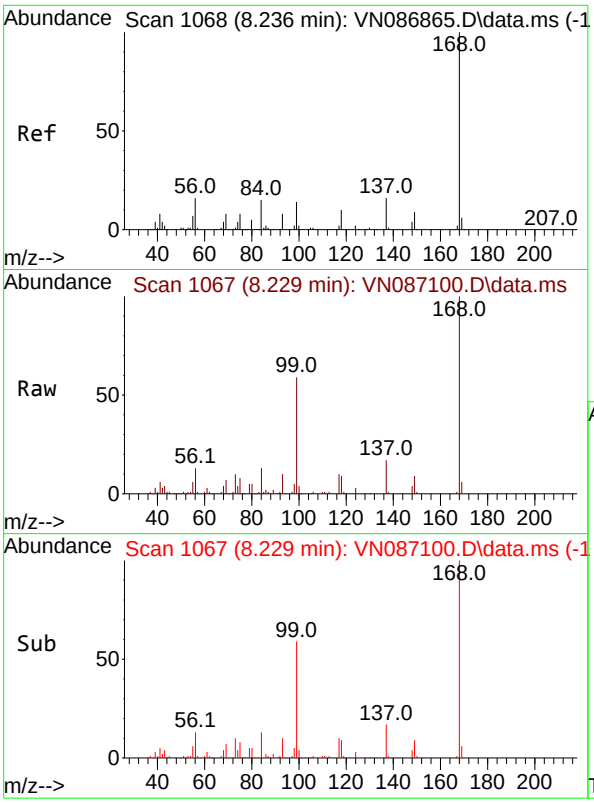
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087100.D
Acq On : 19 Jun 2025 09:31
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Quant Time: Jun 20 01:19:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



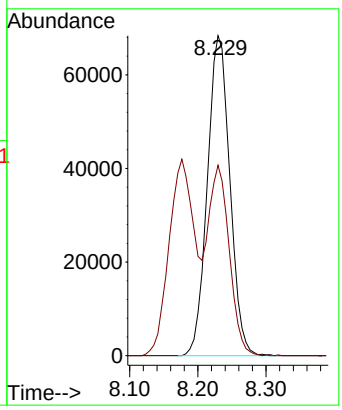


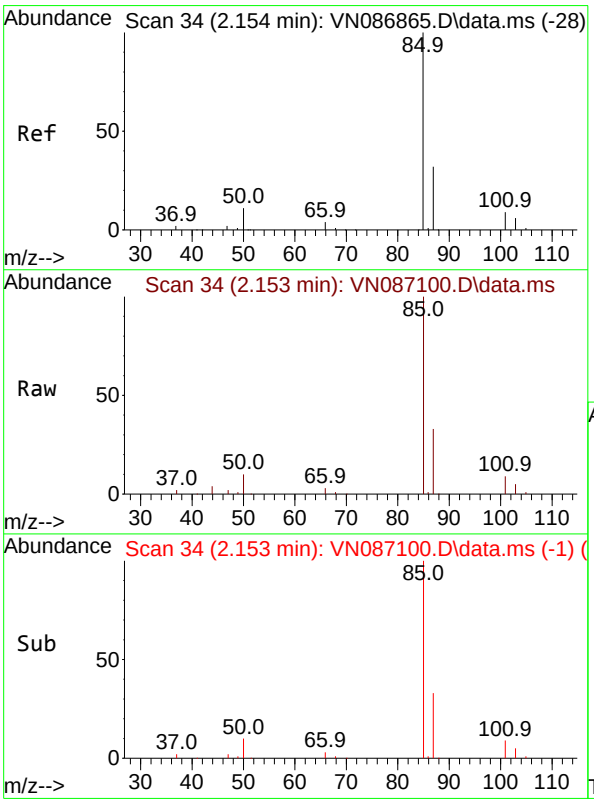
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1
Delta R.T. -0.007 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 157053

Ion	Ratio	Lower	Upper
168	100		
99	59.2	49.1	73.7

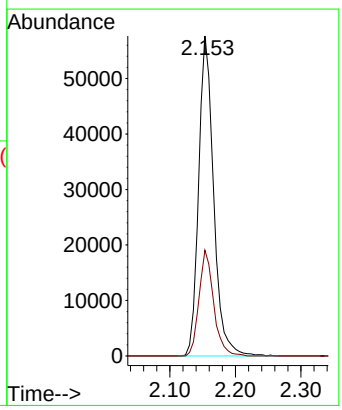


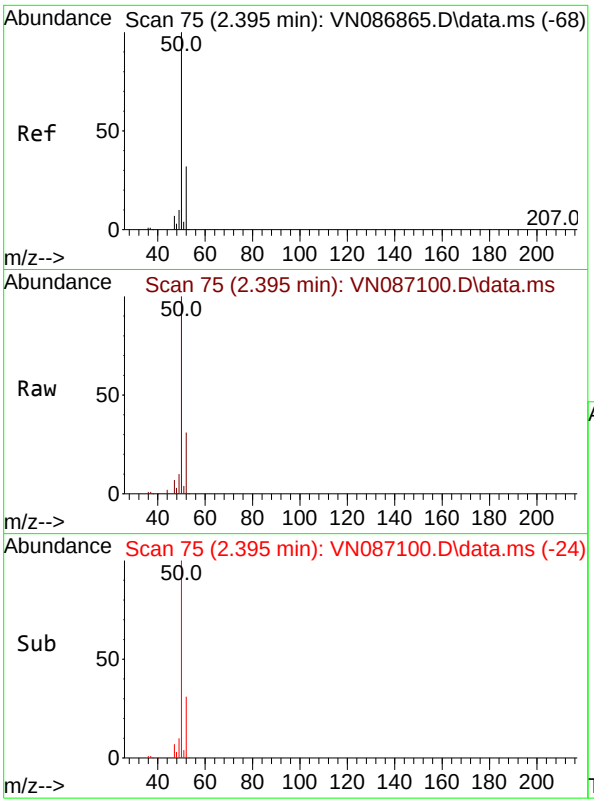


#2
Dichlorodifluoromethane
Concen: 58.637 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 85 Resp: 91821

Ion	Ratio	Lower	Upper
85	100		
87	33.1	16.2	48.6



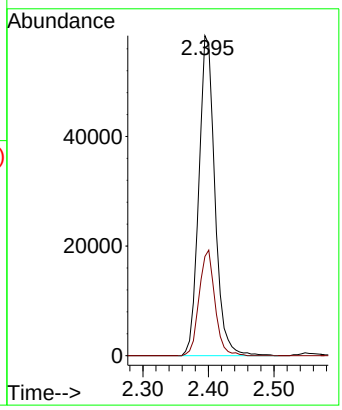


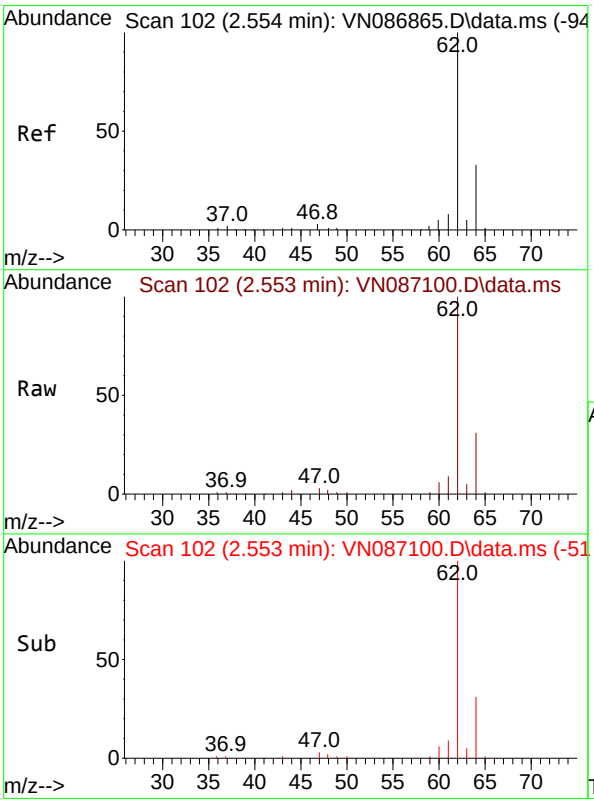
#3
Chloromethane
Concen: 49.257 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 99602

Ion	Ratio	Lower	Upper
50	100		
52	31.0	25.7	38.5

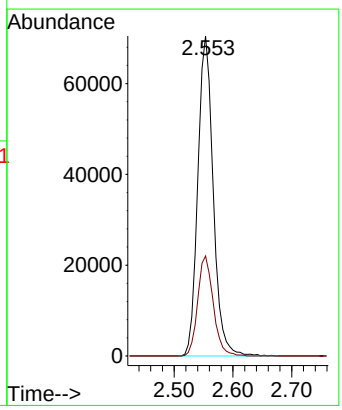


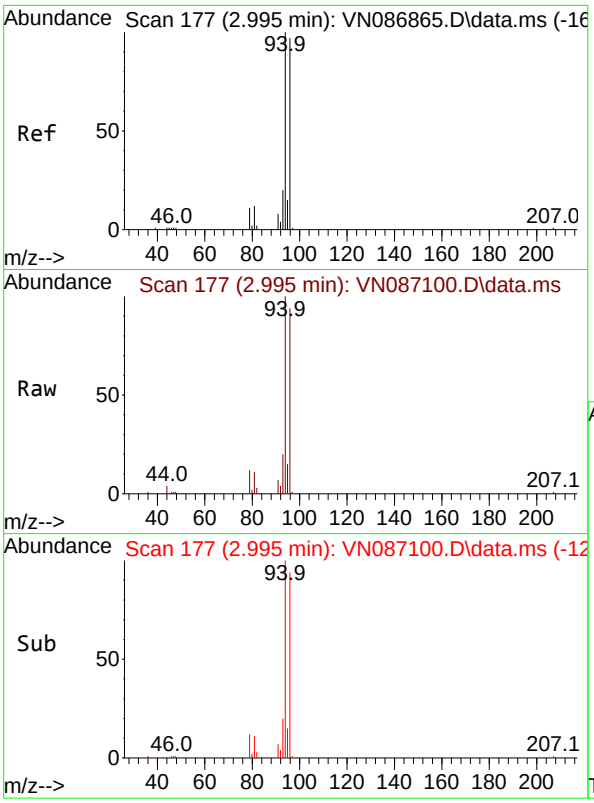


#4
Vinyl Chloride
Concen: 61.379 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 62 Resp: 128030

Ion	Ratio	Lower	Upper
62	100		
64	31.3	26.0	39.0



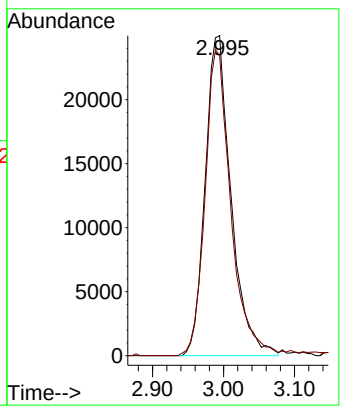


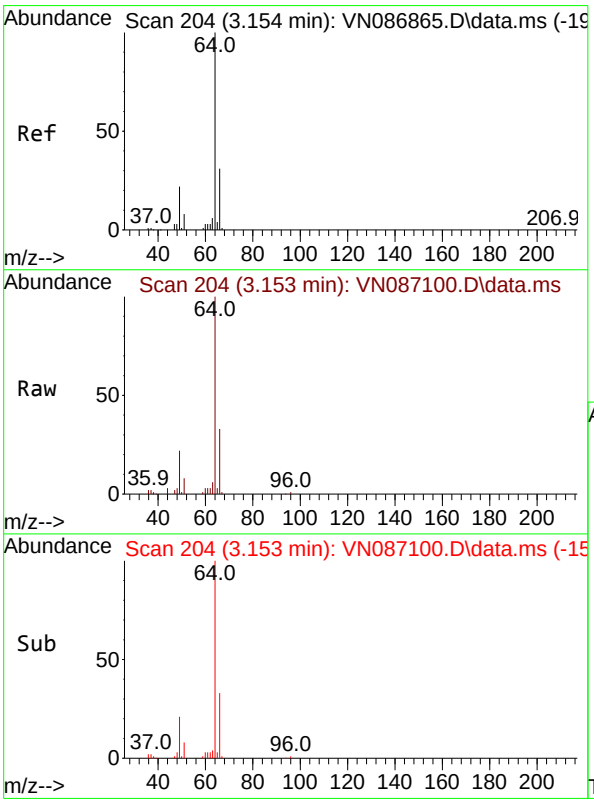
#5
Bromomethane
Concen: 54.137 ug/l
RT: 2.995 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 63194

Ion	Ratio	Lower	Upper
94	100		
96	93.8	77.9	116.9

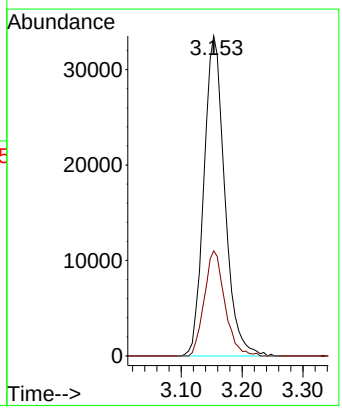


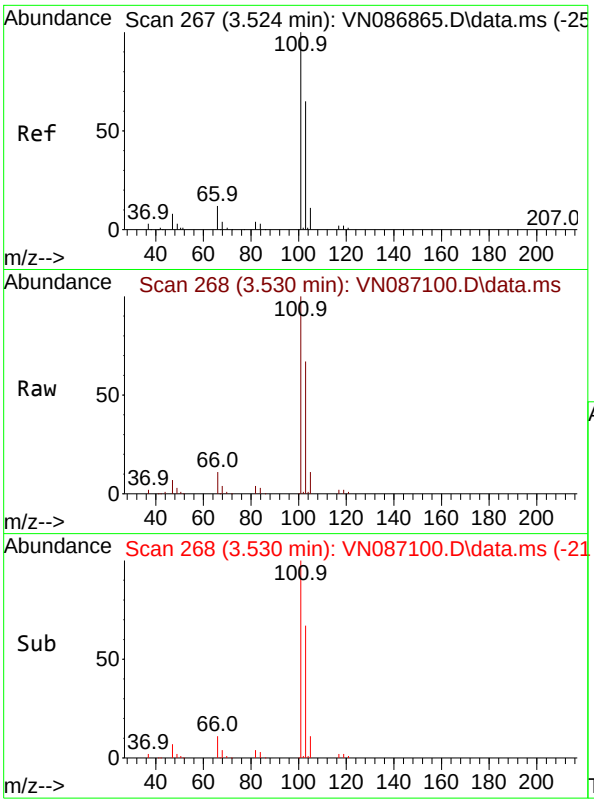


#6
Chloroethane
Concen: 59.139 ug/l
RT: 3.153 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 64 Resp: 79682

Ion	Ratio	Lower	Upper
64	100		
66	32.8	24.6	36.8



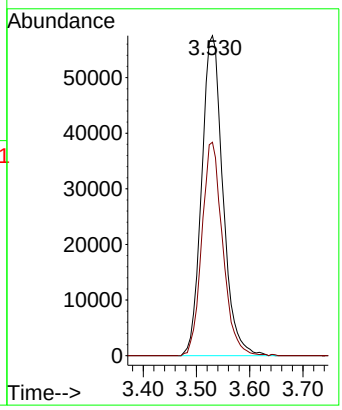


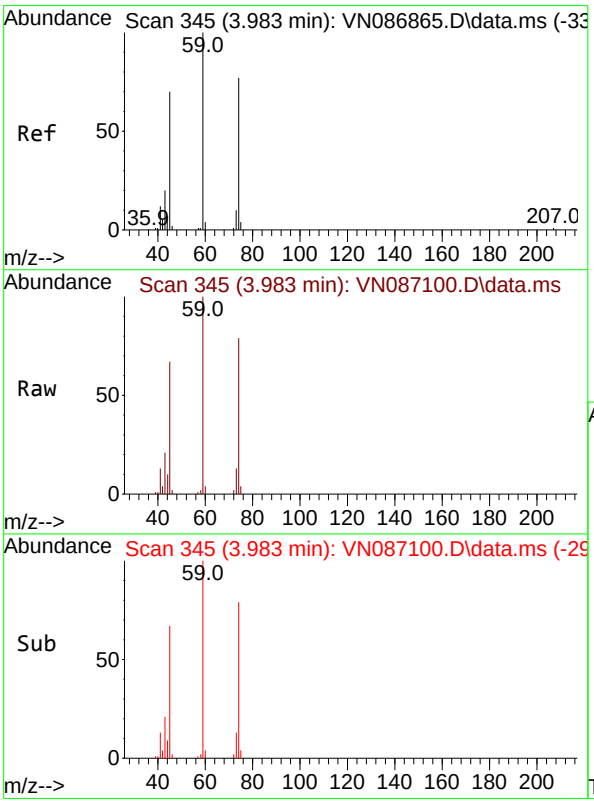
#7
Trichlorofluoromethane
Concen: 58.455 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 159307

Ion	Ratio	Lower	Upper
101	100		
103	66.7	52.2	78.2

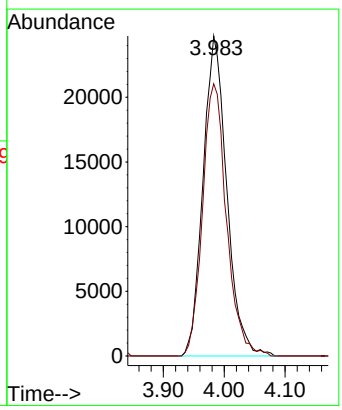


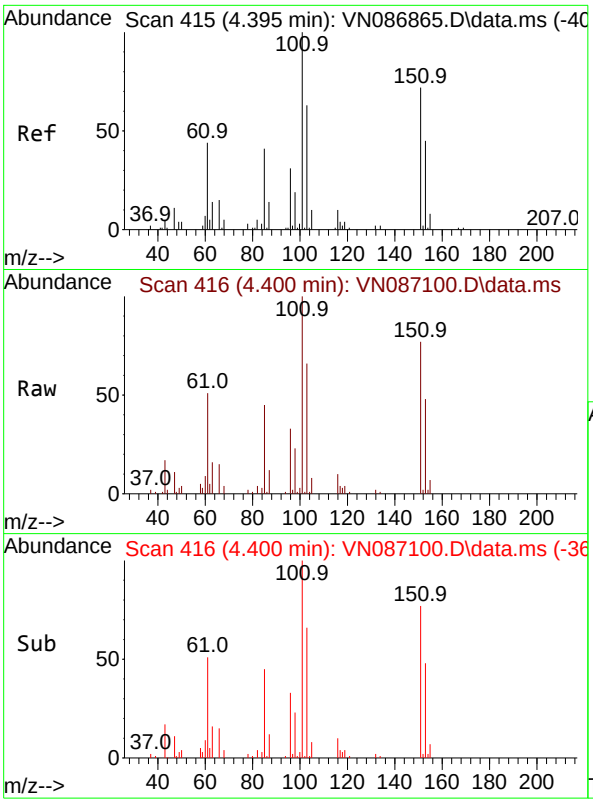


#8
Diethyl Ether
Concen: 56.344 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 74 Resp: 66903

Ion	Ratio	Lower	Upper
74	100		
45	86.0	45.5	136.5



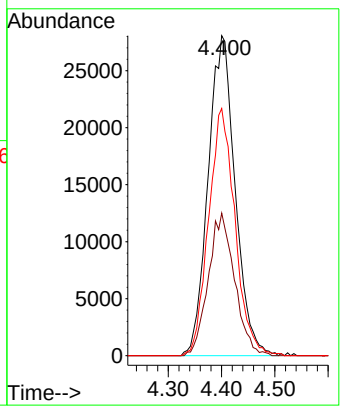


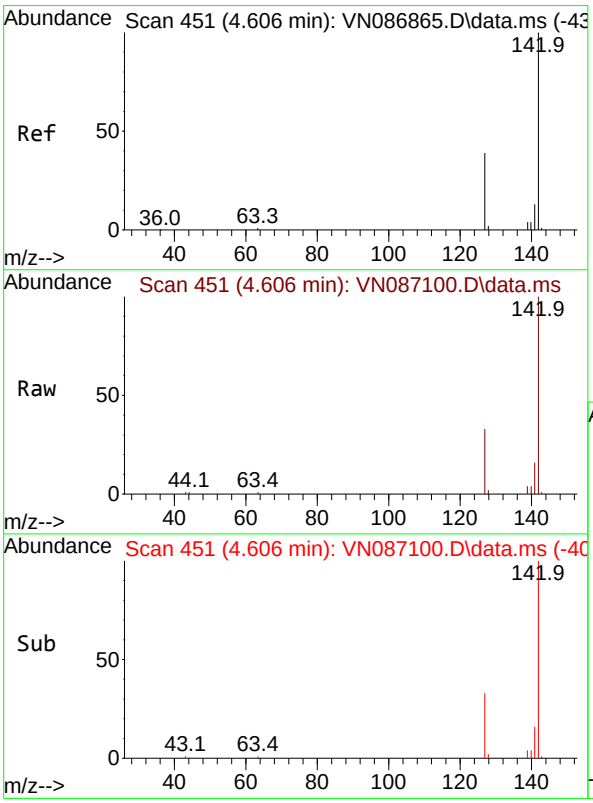
#9
1,1,2-Trichlorotrifluoroethane
Concen: 57.825 ug/l
RT: 4.400 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 99010

Ion	Ratio	Lower	Upper
101	100		
85	43.2	33.8	50.8
151	75.6	58.7	88.1

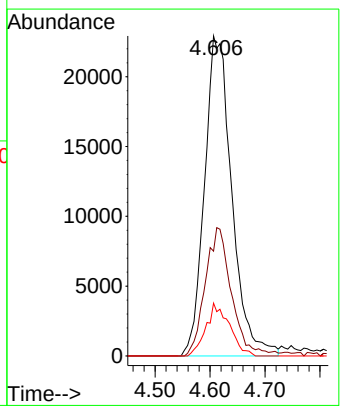


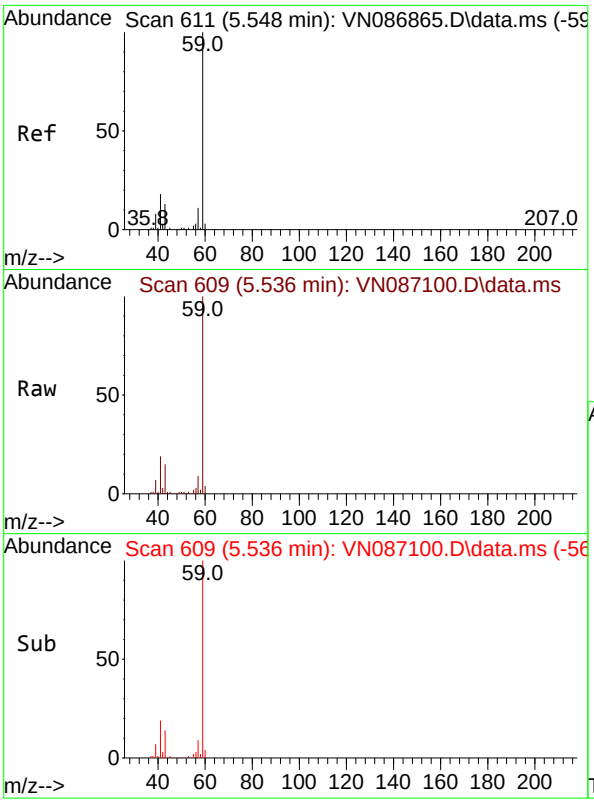


#10
Methyl Iodide
Concen: 35.624 ug/l
RT: 4.606 min Scan# 451
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:142 Resp: 79070

Ion	Ratio	Lower	Upper
142	100		
127	32.7	30.9	46.3
141	16.5	10.4	15.6#



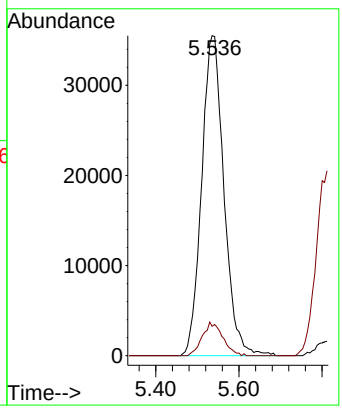


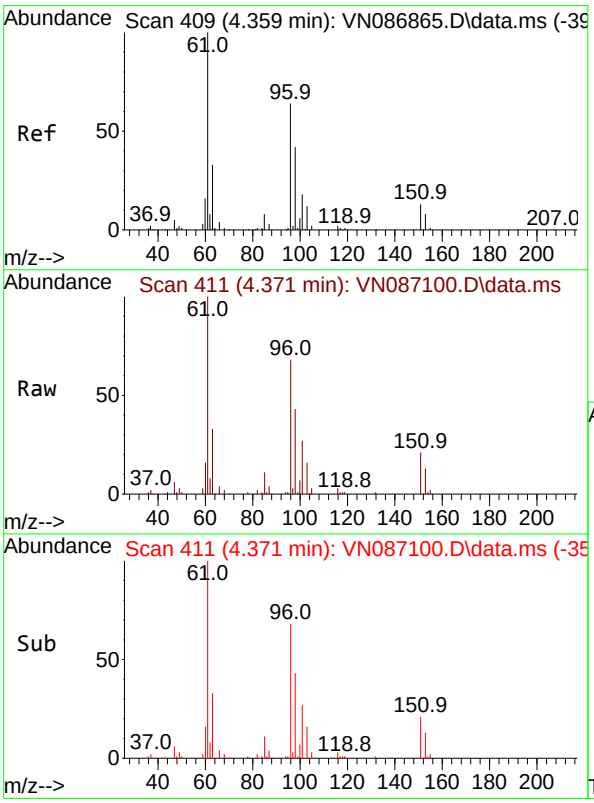
#11
Tert butyl alcohol
Concen: 231.693 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 132196

Ion	Ratio	Lower	Upper
59	100		
57	9.6	8.1	12.1

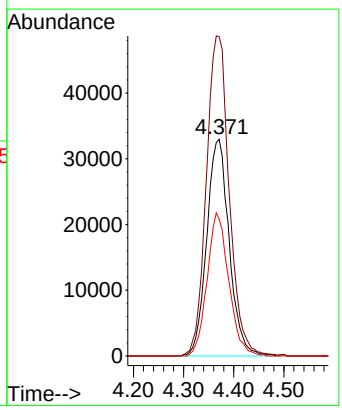


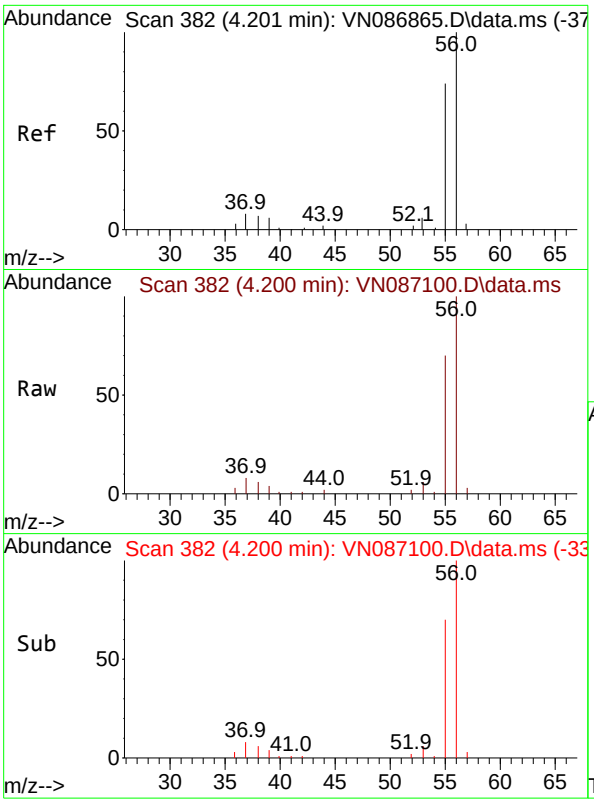


#12
1,1-Dichloroethene
Concen: 58.764 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 96 Resp: 102722

Ion	Ratio	Lower	Upper
96	100		
61	147.4	125.8	188.6
98	63.2	52.5	78.7



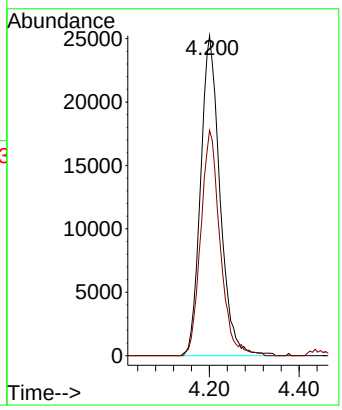


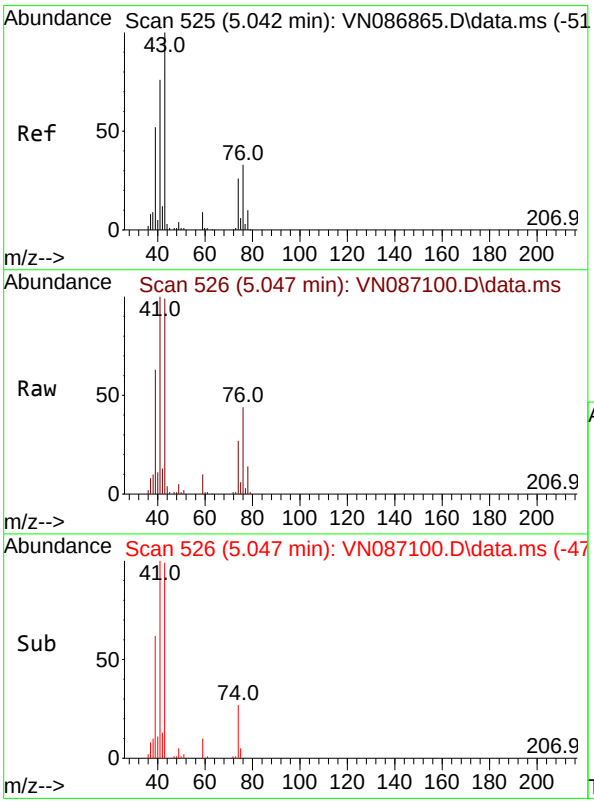
#13
Acrolein
Concen: 418.463 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 75576

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.6	83.4

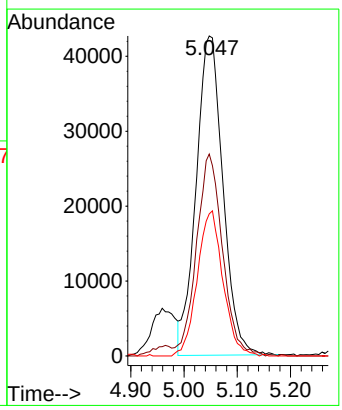


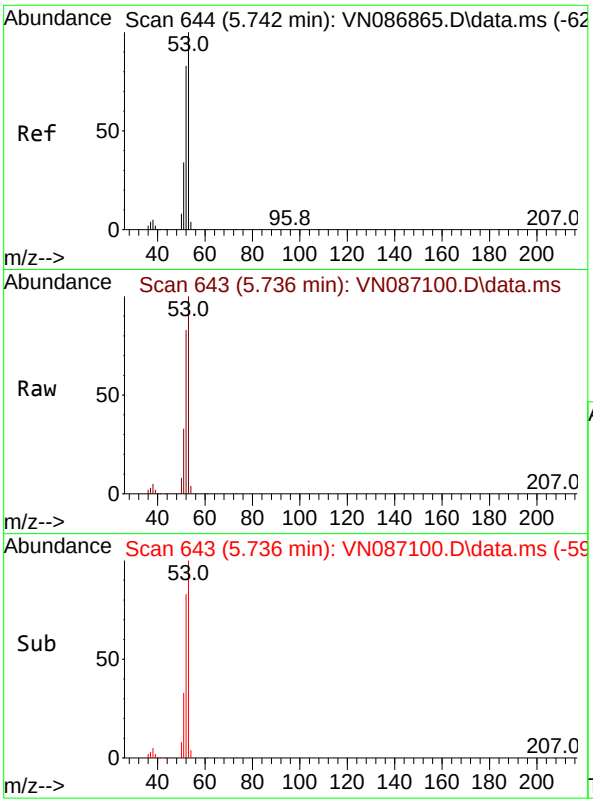


#14
Allyl chloride
Concen: 51.477 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 41 Resp: 149234

Ion	Ratio	Lower	Upper
41	100		
39	61.6	51.3	76.9
76	43.5	31.4	47.0



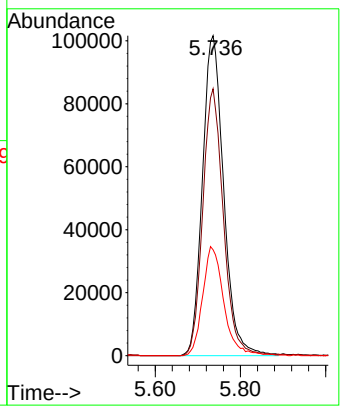


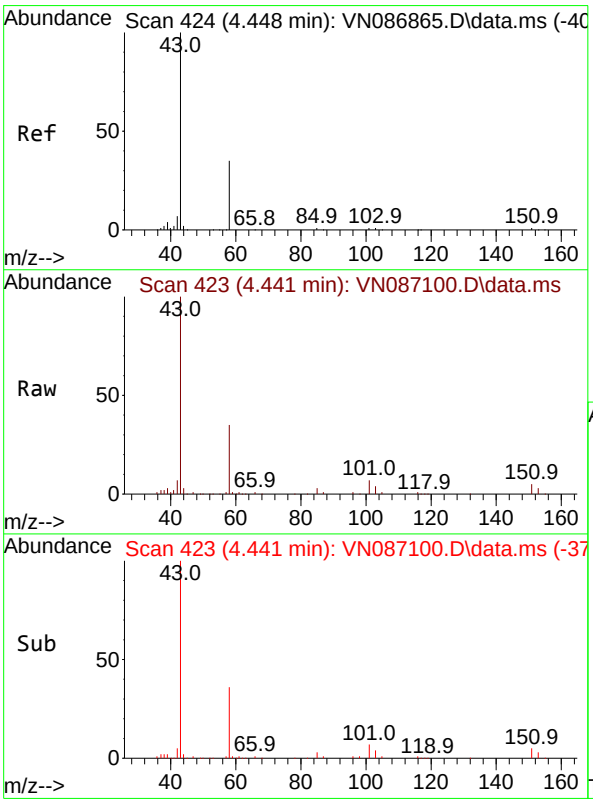
#15
Acrylonitrile
Concen: 263.851 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 53 Resp: 351875

Ion	Ratio	Lower	Upper
53	100		
52	81.2	65.0	97.6
51	34.0	27.2	40.8

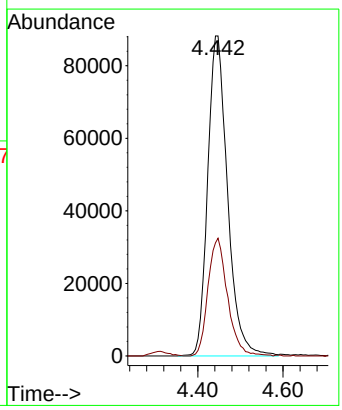


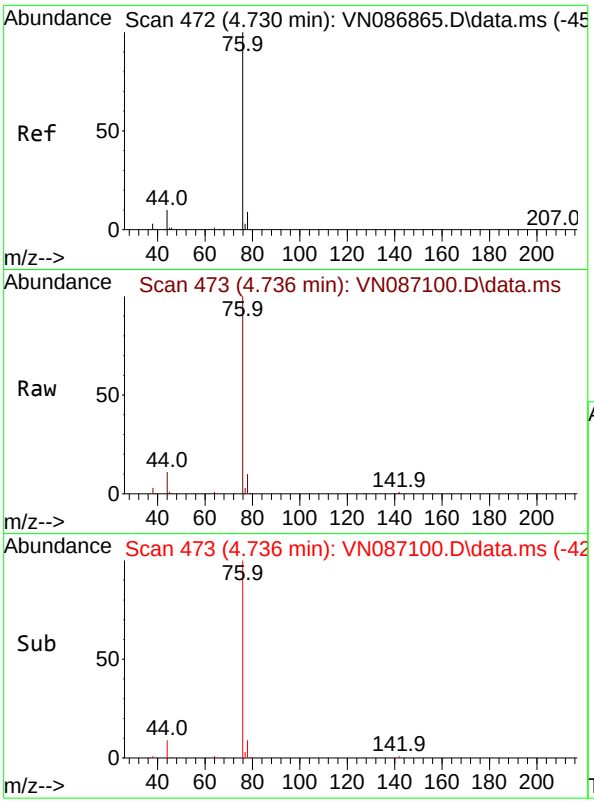


#16
Acetone
Concen: 255.751 ug/l
RT: 4.441 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 43 Resp: 285191

Ion	Ratio	Lower	Upper
43	100		
58	35.1	28.0	42.0



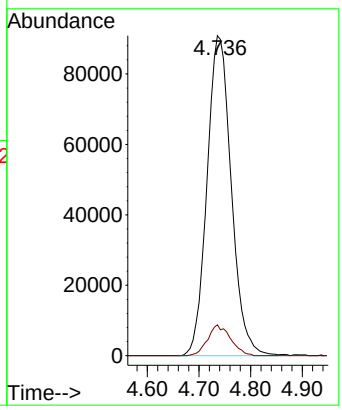


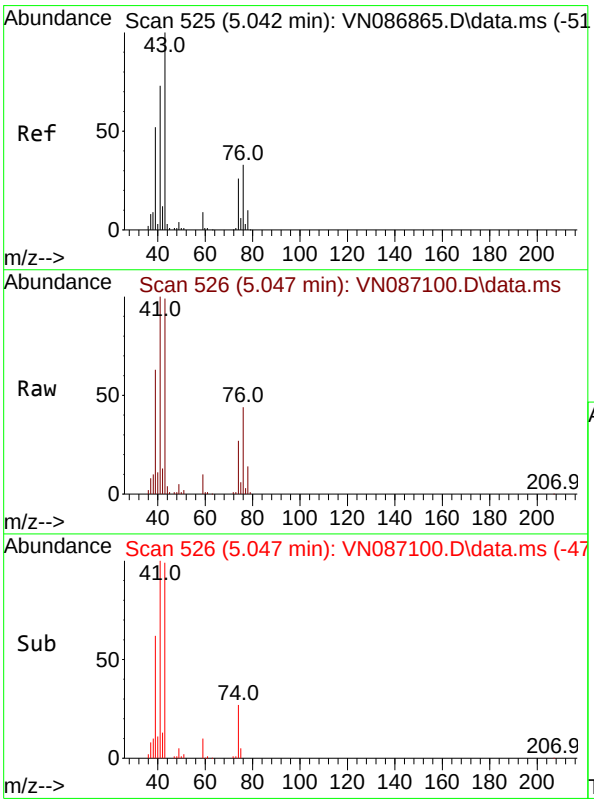
#17
Carbon Disulfide
Concen: 61.273 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 296271

Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.3	10.9

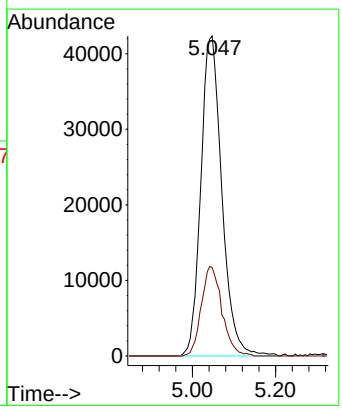


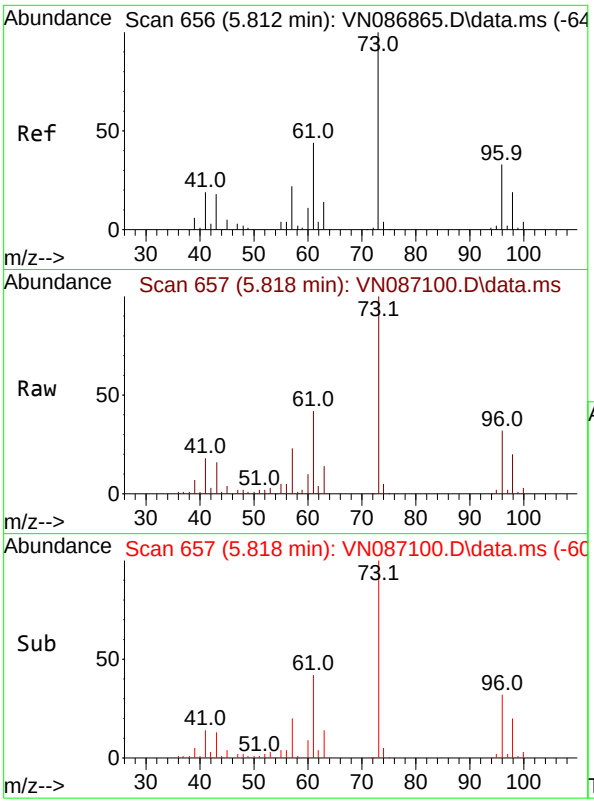


#18
Methyl Acetate
Concen: 45.799 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 43 Resp: 148831

Ion	Ratio	Lower	Upper
43	100		
74	27.4	20.7	31.1



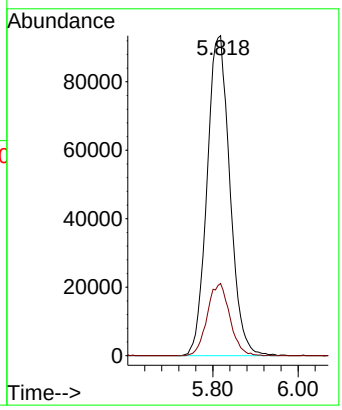


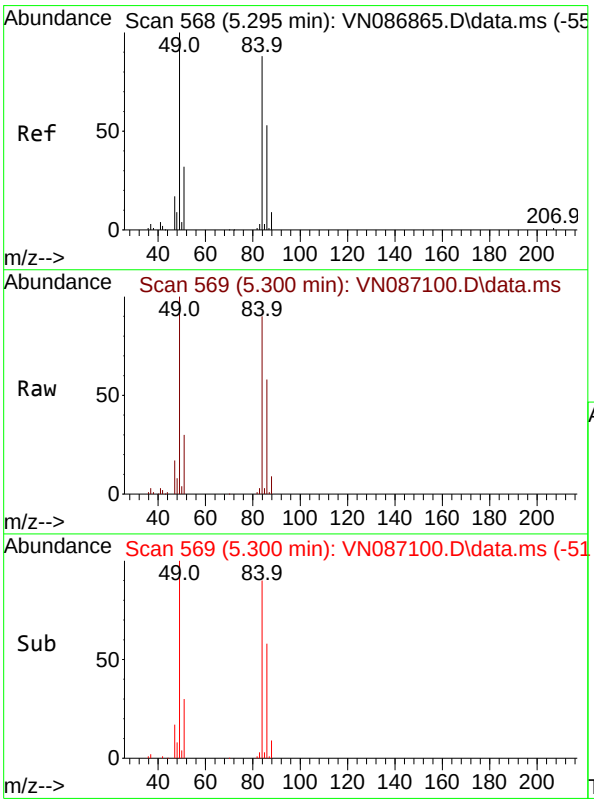
#19
Methyl tert-butyl Ether
Concen: 54.911 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 347549

Ion	Ratio	Lower	Upper
73	100		
57	22.5	17.4	26.2

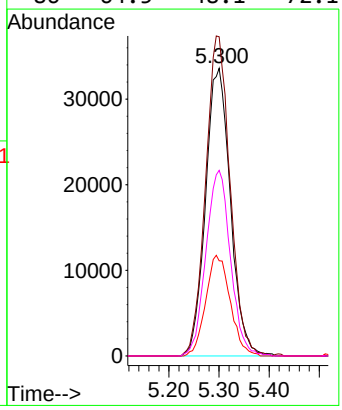


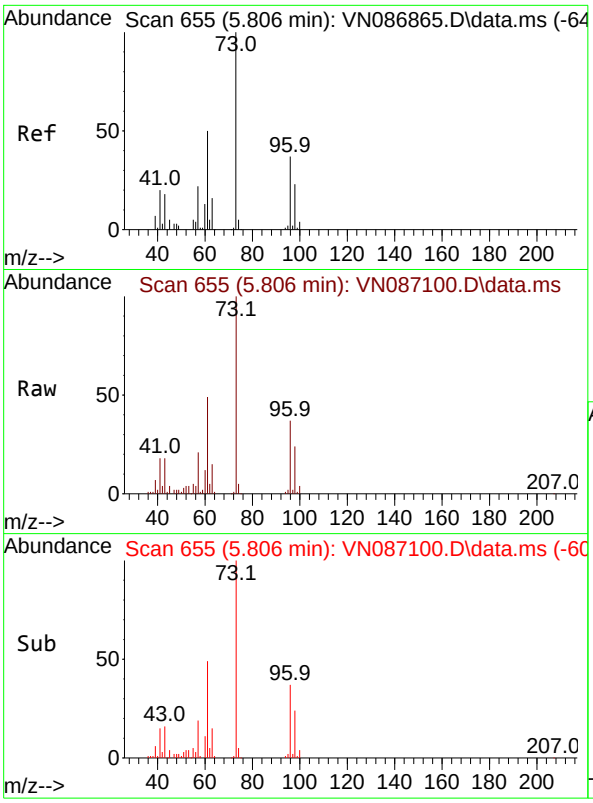


#20
Methylene Chloride
Concen: 55.493 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 84 Resp: 115852

Ion	Ratio	Lower	Upper
84	100		
49	111.0	90.5	135.7
51	33.1	28.5	42.7
86	64.5	48.1	72.1



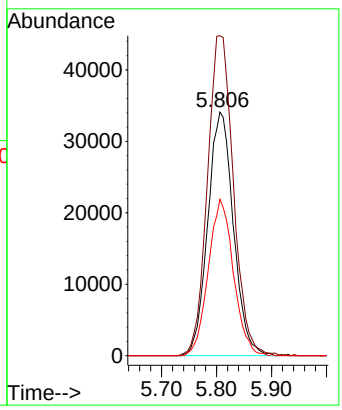


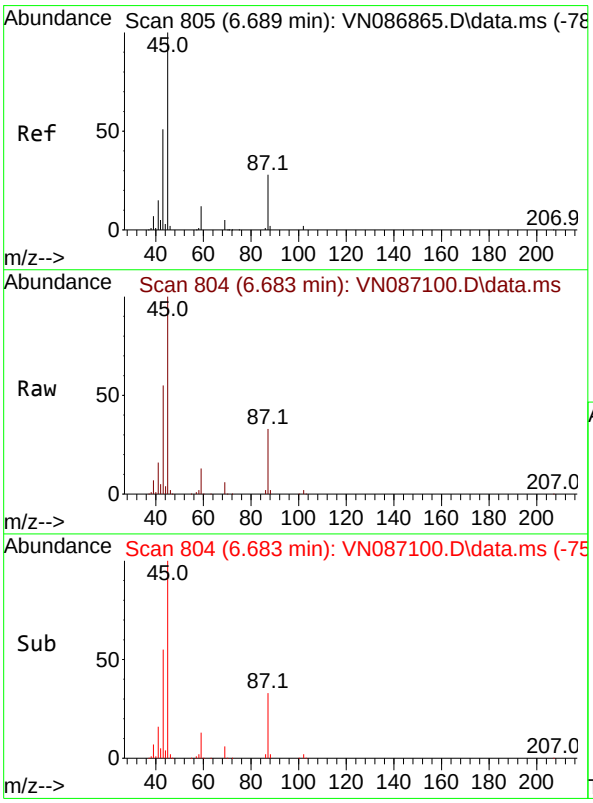
#21
trans-1,2-Dichloroethene
Concen: 56.750 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 110371

Ion	Ratio	Lower	Upper
96	100		
61	131.4	109.2	163.8
98	64.2	49.8	74.8

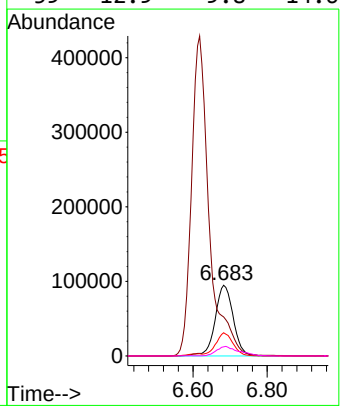


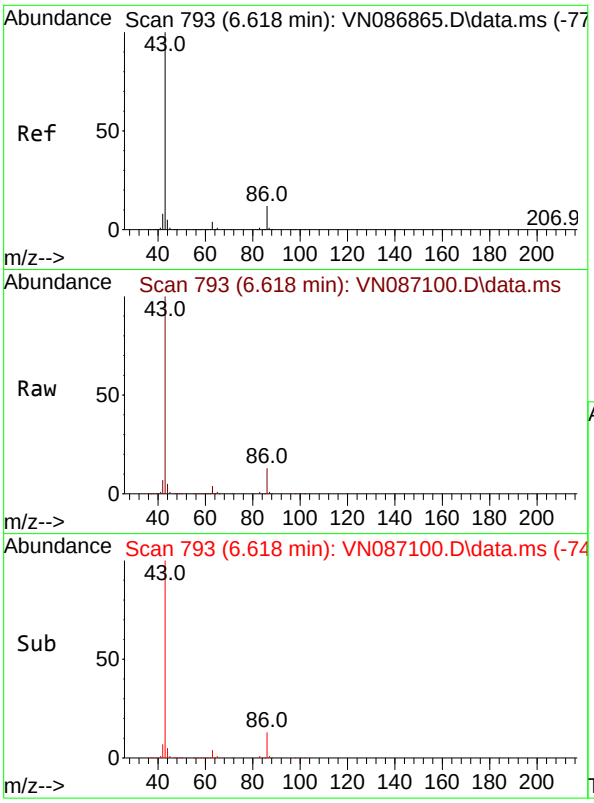


#22
Diisopropyl ether
Concen: 52.602 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 45 Resp: 321446

Ion	Ratio	Lower	Upper
45	100		
43	54.5	41.9	62.9
87	32.8	22.4	33.6
59	12.9	9.8	14.6



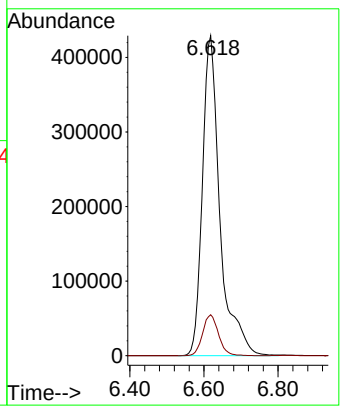


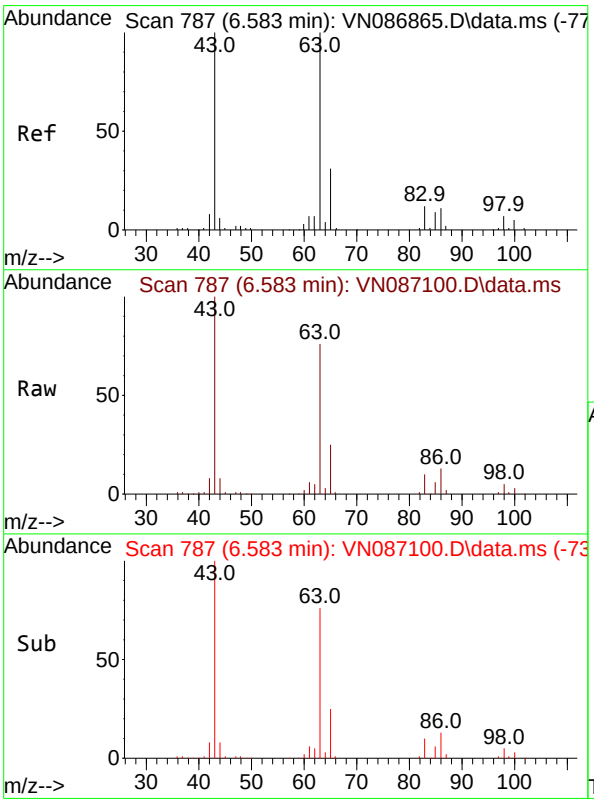
#23
Vinyl Acetate
Concen: 273.362 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1411385

Ion	Ratio	Lower	Upper
43	100		
86	12.8	9.5	14.3

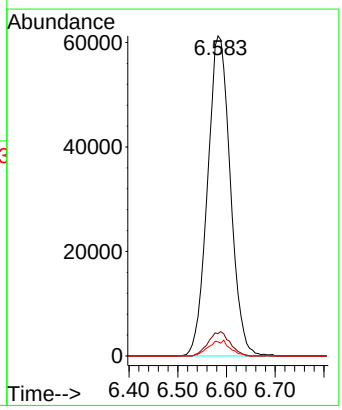


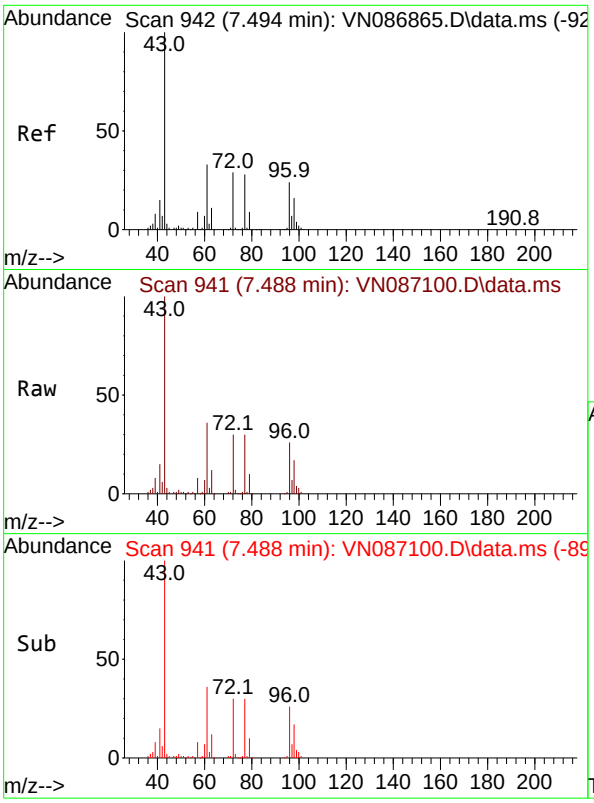


#24
1,1-Dichloroethane
Concen: 56.526 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 63 Resp: 198785

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.6	10.8
100	4.4	2.6	7.8



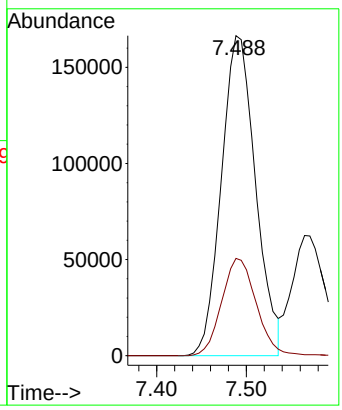


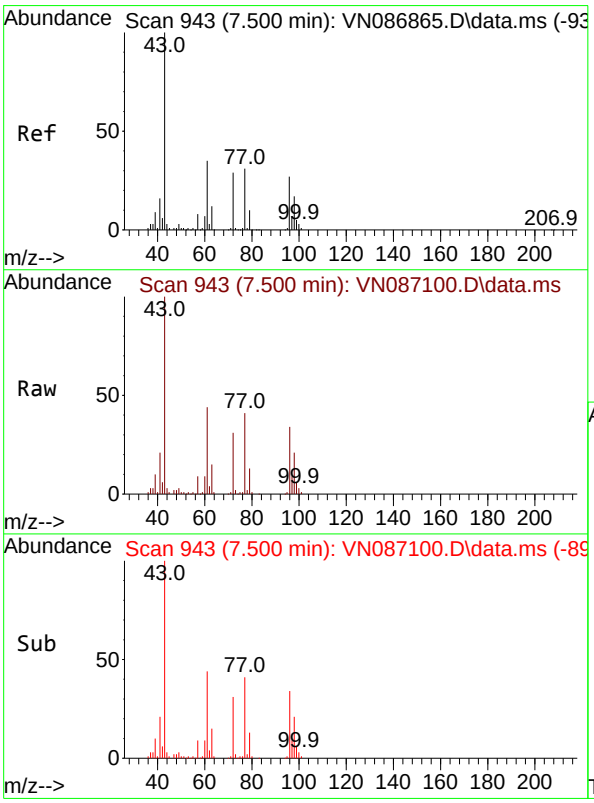
#25
2-Butanone
Concen: 243.615 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 441572

Ion	Ratio	Lower	Upper
43	100		
72	30.4	23.0	34.6

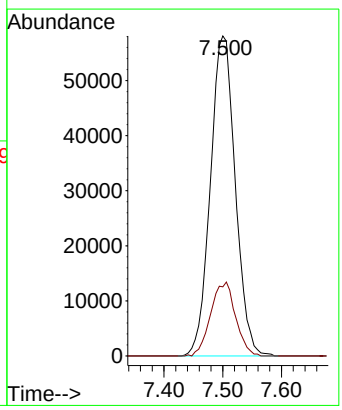


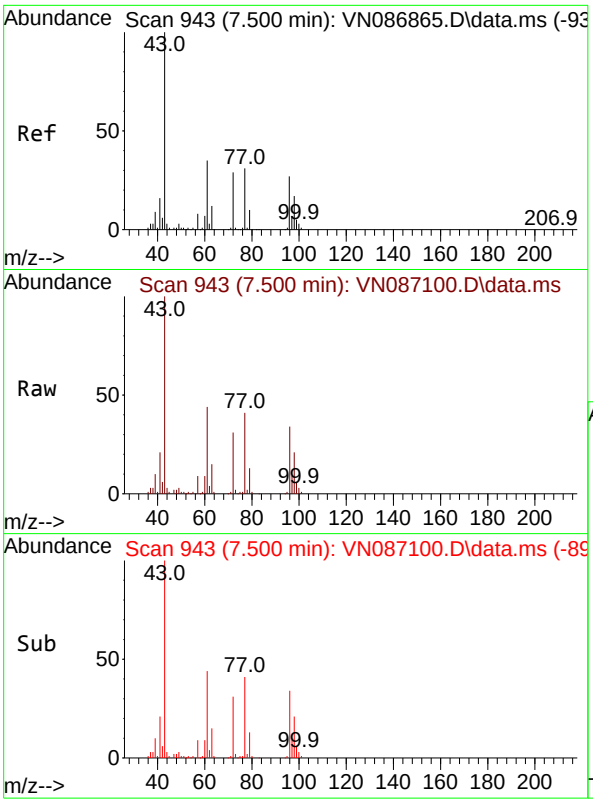


#26
2,2-Dichloropropane
Concen: 62.543 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 77 Resp: 171090

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.6	34.7



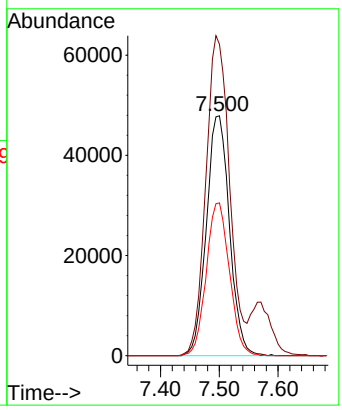


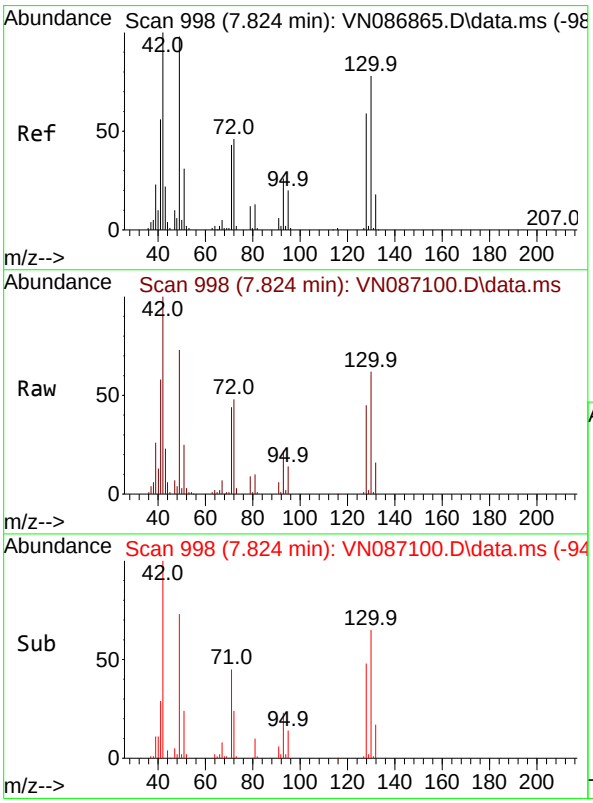
#27
cis-1,2-Dichloroethene
Concen: 56.366 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 131103

Ion	Ratio	Lower	Upper
96	100		
61	137.1	0.0	278.0
98	63.8	0.0	128.2

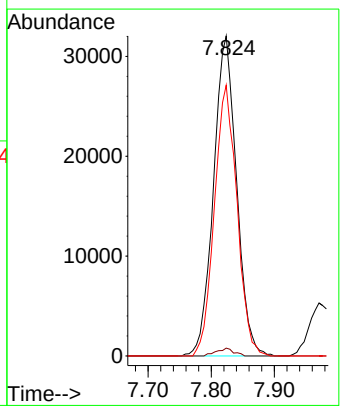


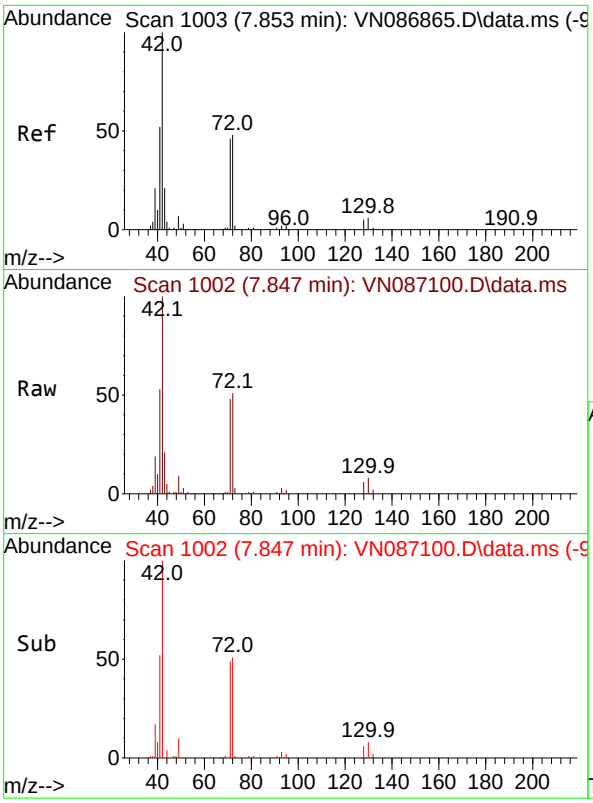


#28
Bromochloromethane
Concen: 46.941 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 49 Resp: 81165

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	82.9	62.2	93.2



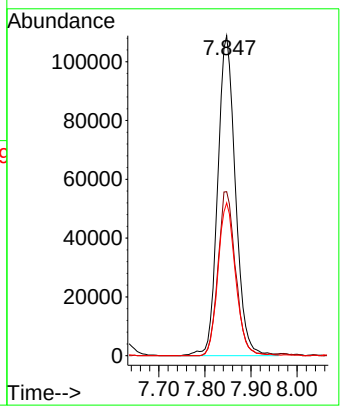


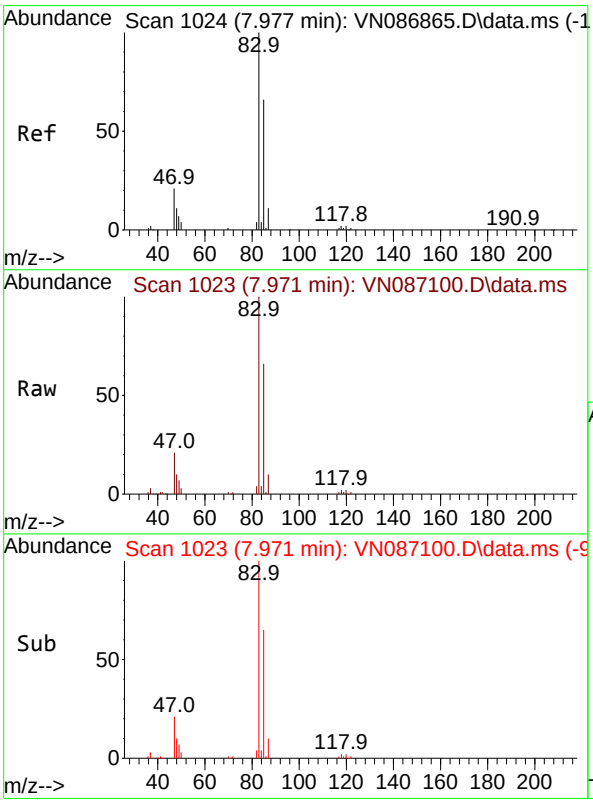
#29
Tetrahydrofuran
Concen: 245.546 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 289933

Ion	Ratio	Lower	Upper
42	100		
72	50.7	37.8	56.6
71	47.5	35.6	53.4

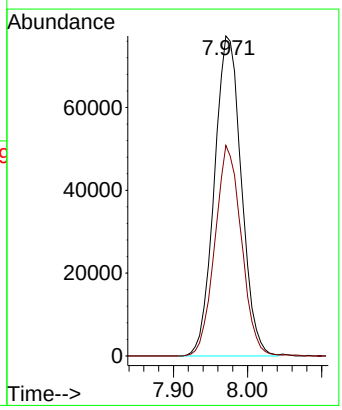


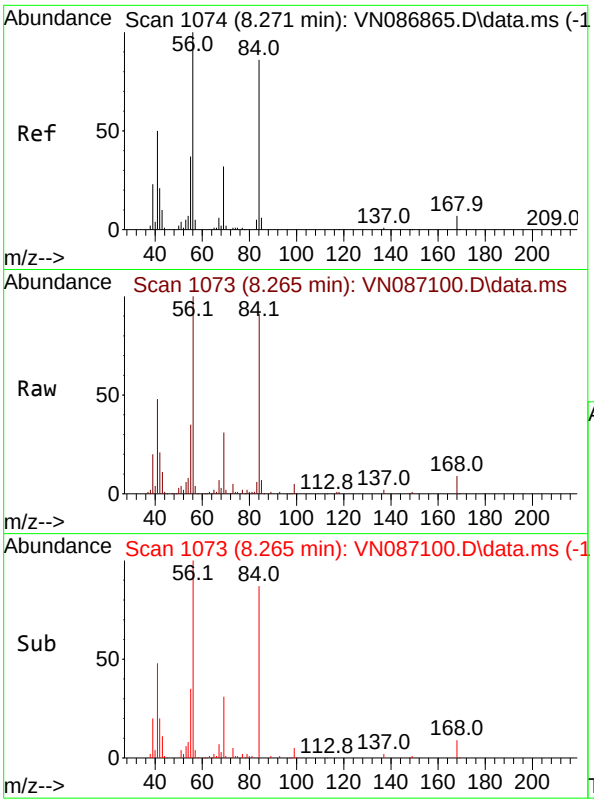


#30
Chloroform
Concen: 55.695 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 83 Resp: 195599

Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.9	79.3



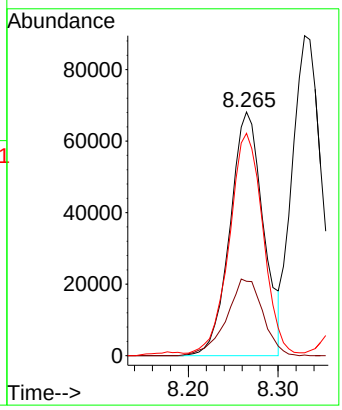


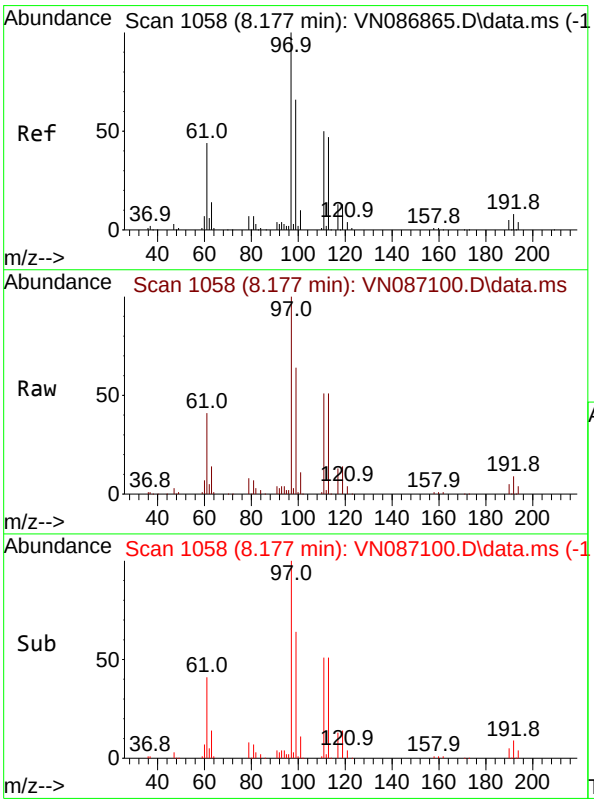
#31
Cyclohexane
Concen: 51.646 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 176136

Ion	Ratio	Lower	Upper
56	100		
69	30.5	25.4	38.0
84	90.0	68.8	103.2

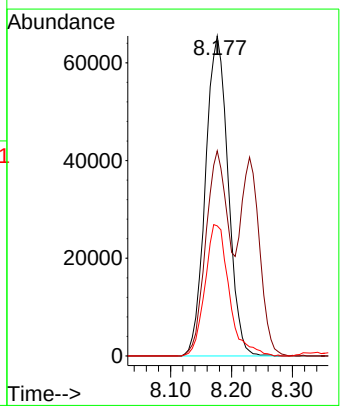


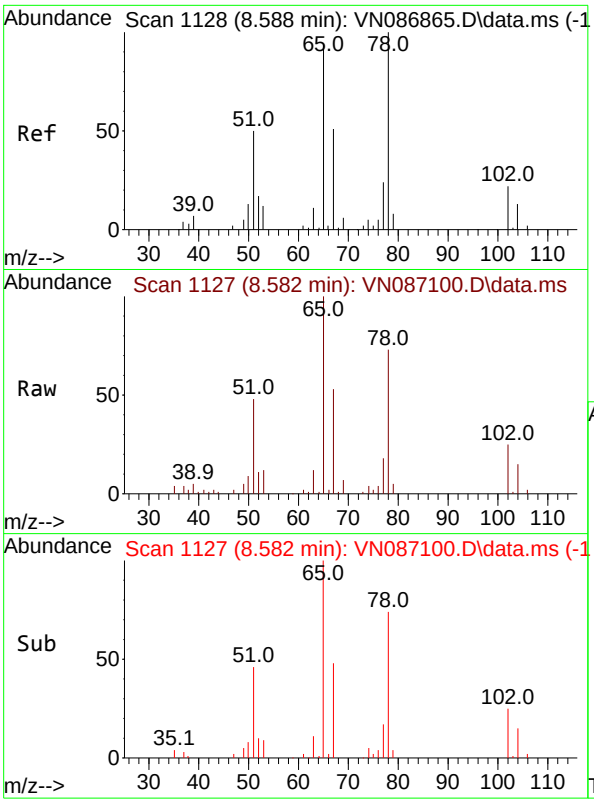


#32
1,1,1-Trichloroethane
Concen: 56.618 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 97 Resp: 169121

Ion	Ratio	Lower	Upper
97	100		
99	66.1	52.0	78.0
61	43.8	35.9	53.9



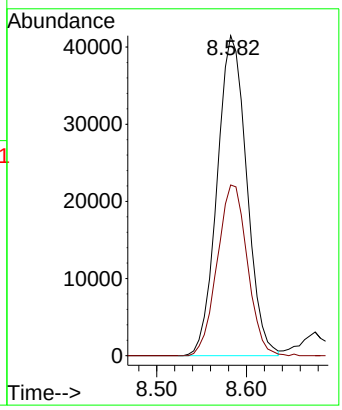


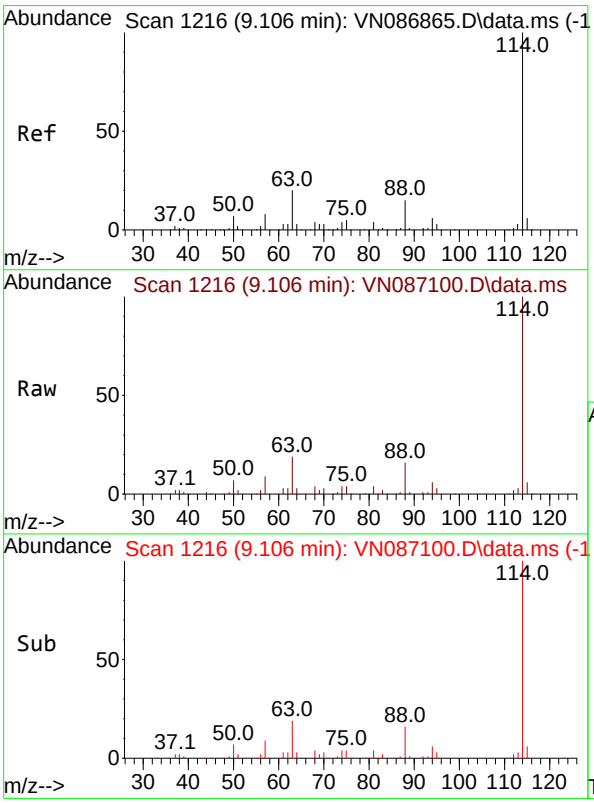
#33
1,2-Dichloroethane-d4
Concen: 45.107 ug/l
RT: 8.582 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 65 Resp: 94849

Ion	Ratio	Lower	Upper
65	100		
67	54.3	0.0	105.6

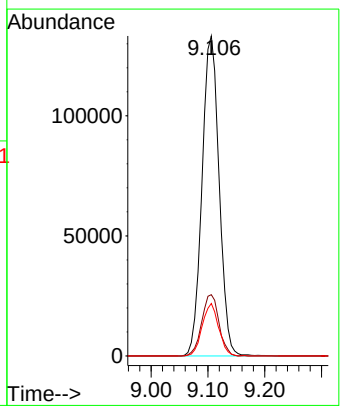


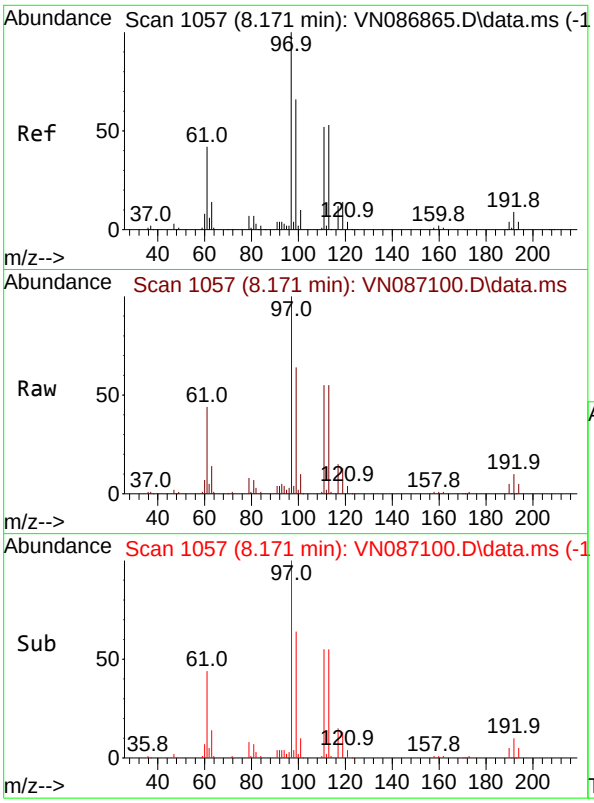


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:114 Resp: 278046

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	39.6
88	16.4	0.0	30.2



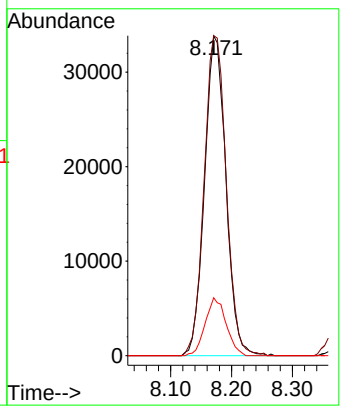


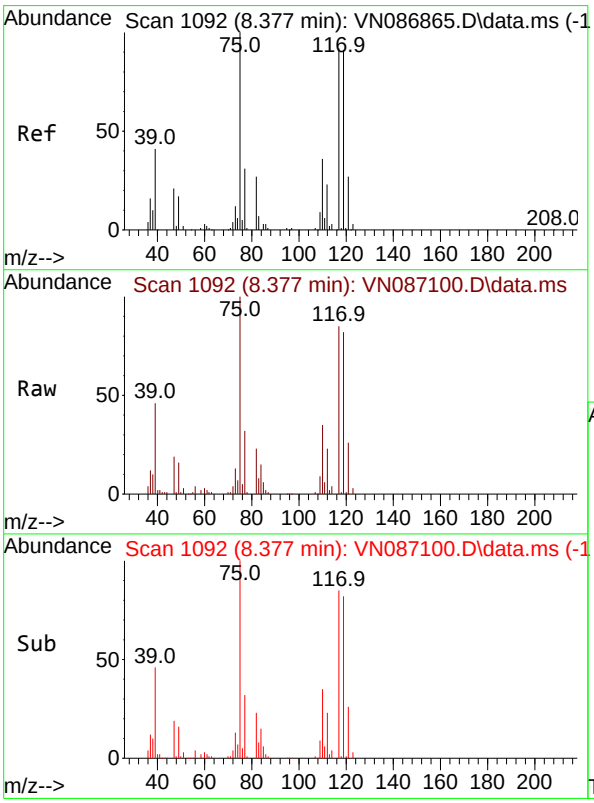
#35
Dibromofluoromethane
Concen: 49.979 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:113 Resp: 82354

Ion	Ratio	Lower	Upper
113	100		
111	103.4	84.2	126.2
192	17.8	14.2	21.4

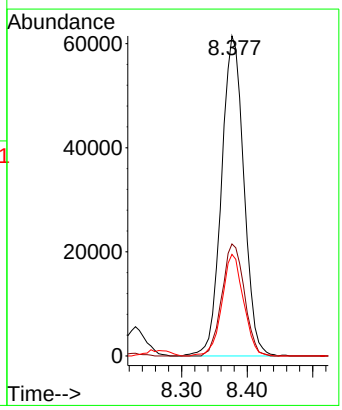


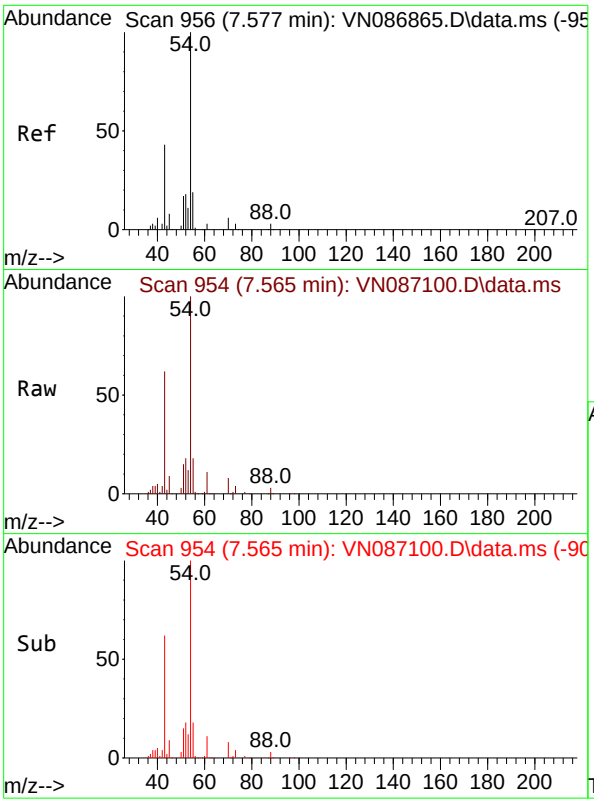


#36
1,1-Dichloropropene
Concen: 59.187 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 75 Resp: 145323

Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.6	52.9
77	30.6	25.3	37.9



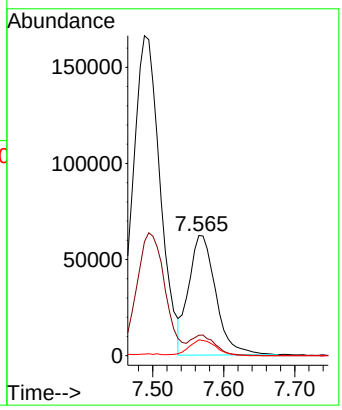


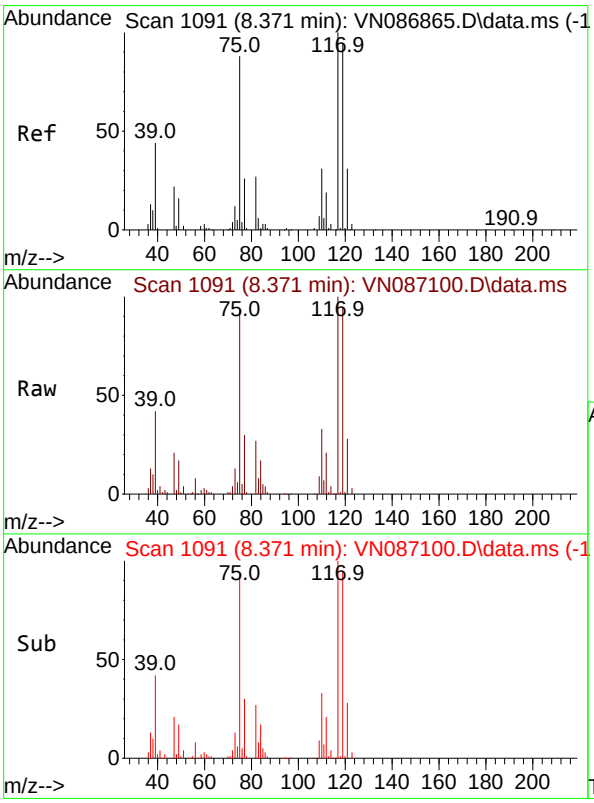
#37
Ethyl Acetate
Concen: 52.938 ug/l
RT: 7.565 min Scan# 9
Delta R.T. -0.012 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 165466

Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.1	18.1
70	13.3	9.8	14.6

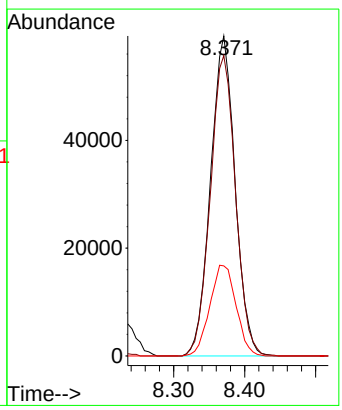


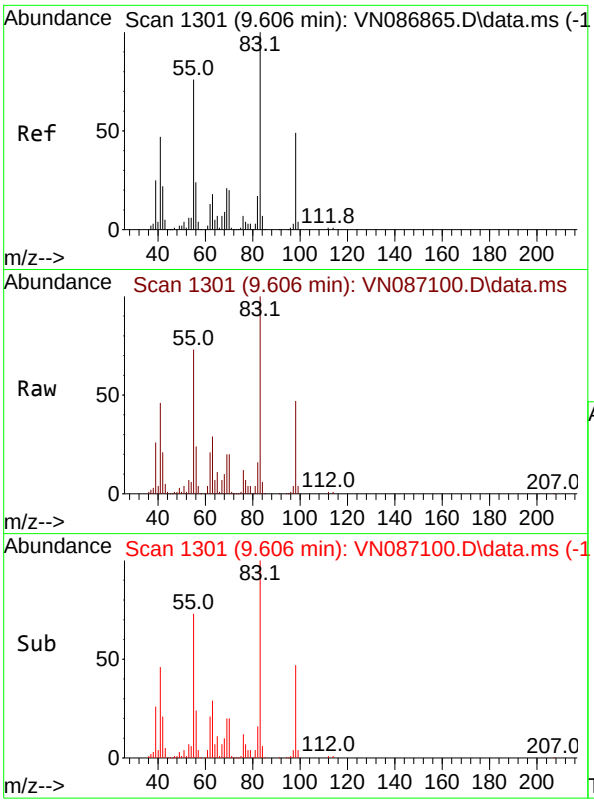


#38
Carbon Tetrachloride
Concen: 59.026 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:117 Resp: 142286

Ion	Ratio	Lower	Upper
117	100		
119	93.8	75.0	112.6
121	28.2	24.9	37.3



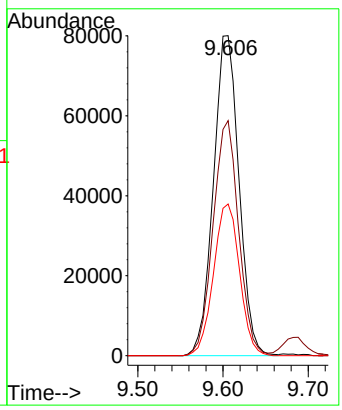


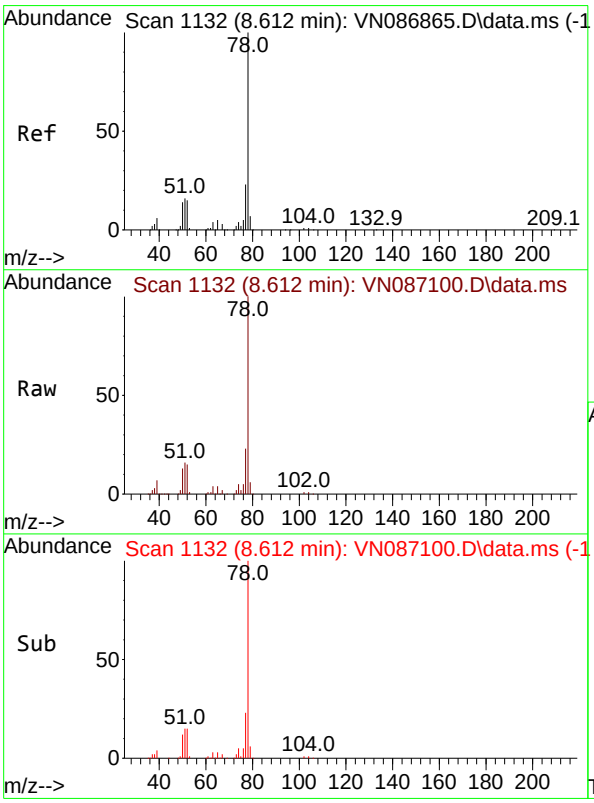
#39
Methylcyclohexane
Concen: 49.607 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 166872

Ion	Ratio	Lower	Upper
83	100		
55	73.5	61.0	91.6
98	47.4	38.9	58.3

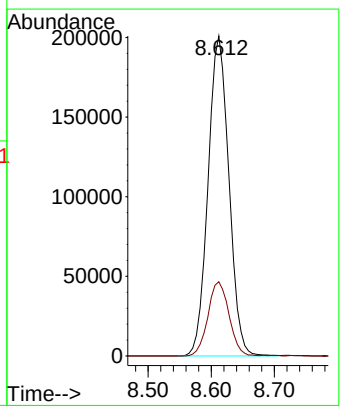


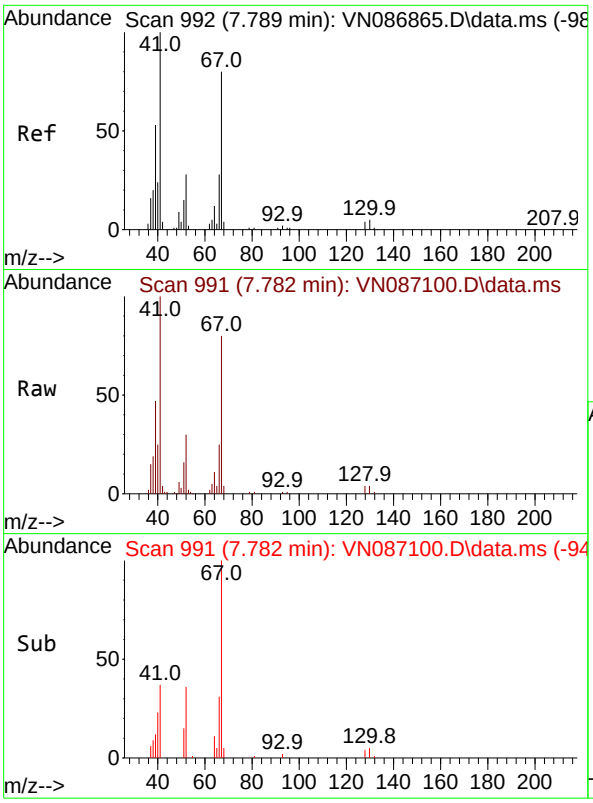


#40
Benzene
Concen: 57.353 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 78 Resp: 460485

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.7	28.1



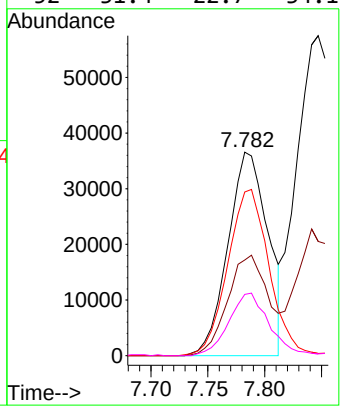


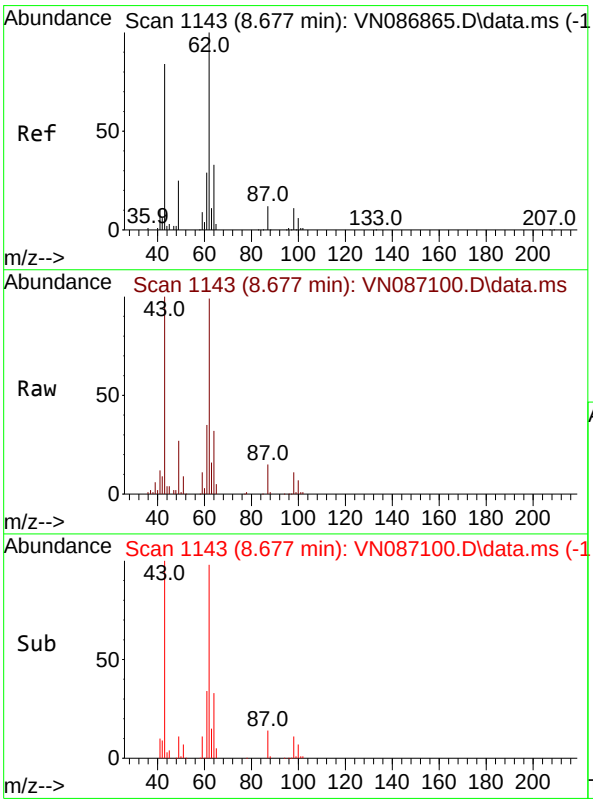
#41
Methacrylonitrile
Concen: 51.098 ug/l
RT: 7.782 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 41 Resp: 89696

Ion	Ratio	Lower	Upper
41	100		
39	49.6	41.2	61.8
67	85.1	61.4	92.2
52	31.4	22.7	34.1

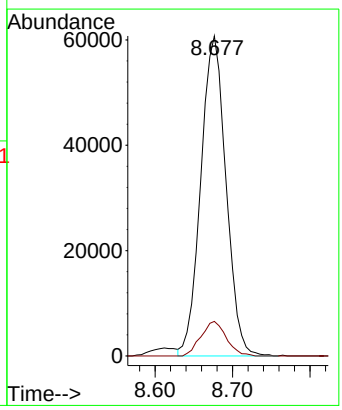


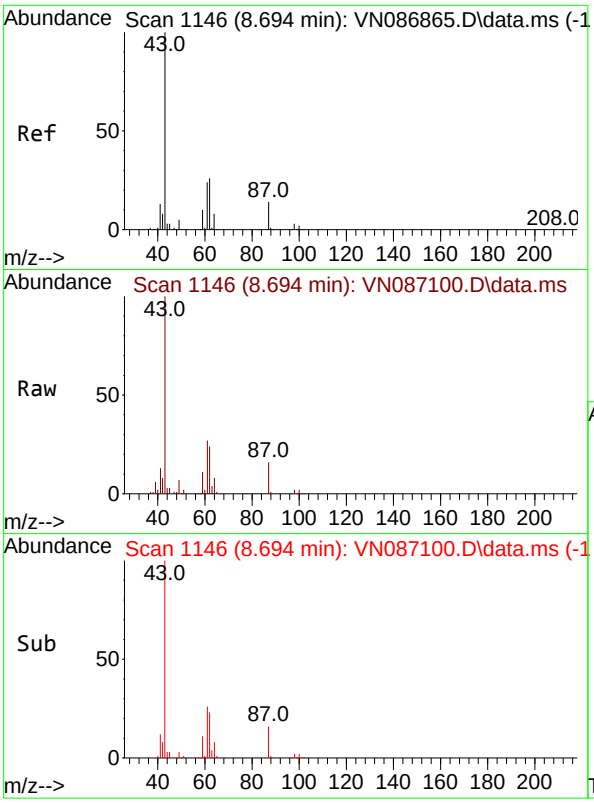


#42
1,2-Dichloroethane
Concen: 56.372 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 62 Resp: 137283

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	21.2



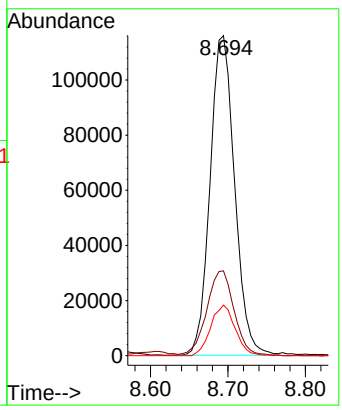


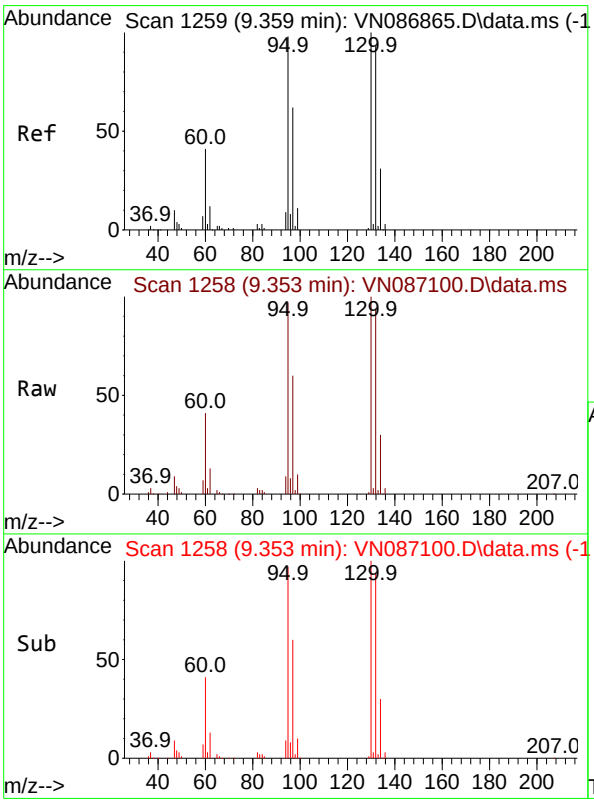
#43
Isopropyl Acetate
Concen: 50.874 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 255218

Ion	Ratio	Lower	Upper
43	100		
61	29.7	22.1	33.1
87	15.8	11.8	17.6

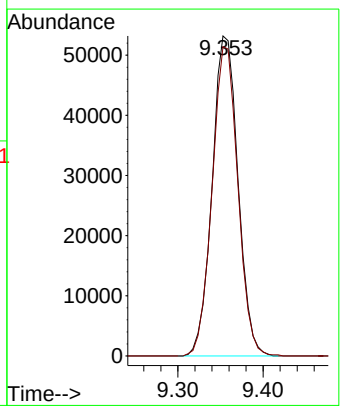


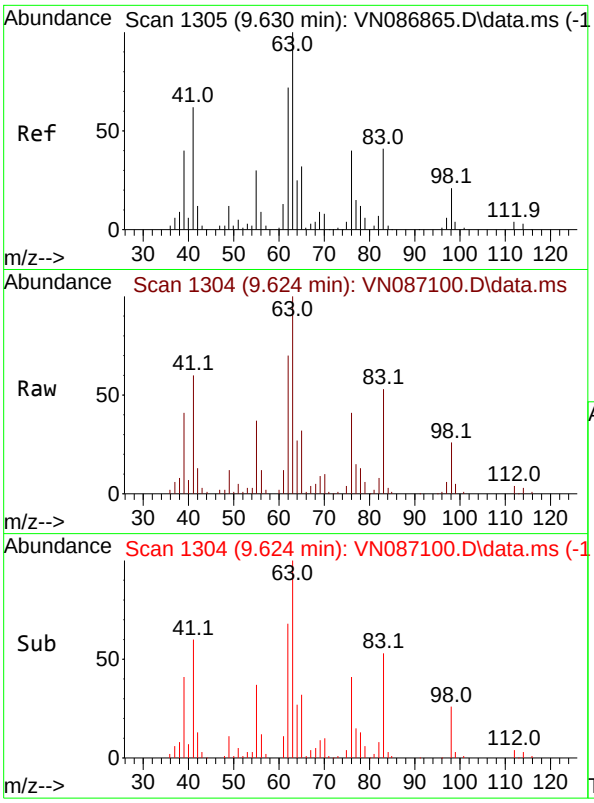


#44
Trichloroethene
Concen: 58.955 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:130 Resp: 112240

Ion	Ratio	Lower	Upper
130	100		
95	96.6	0.0	196.2



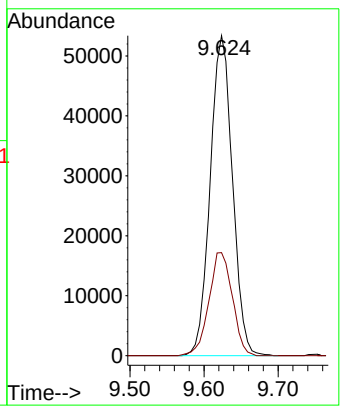


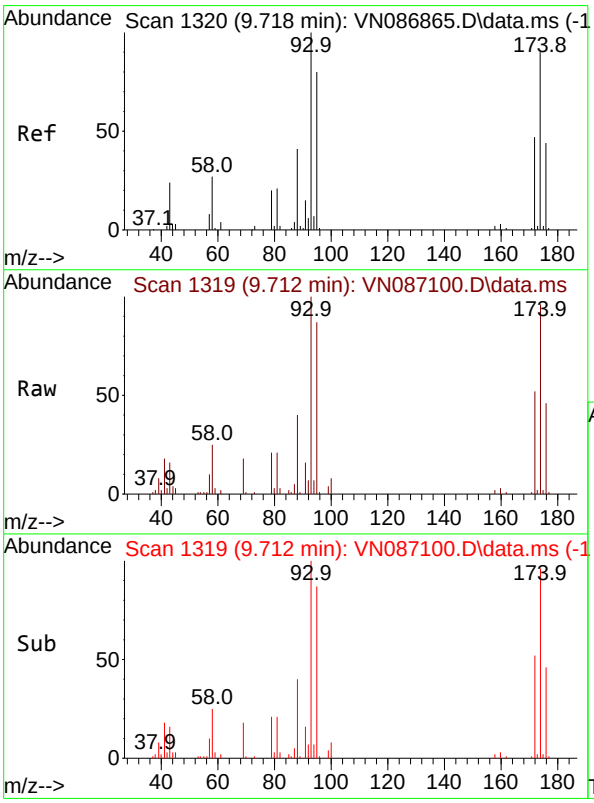
#45
1,2-Dichloropropane
Concen: 57.050 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 63 Resp: 111438

Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.5	38.3

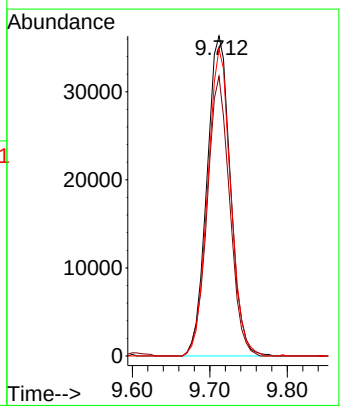


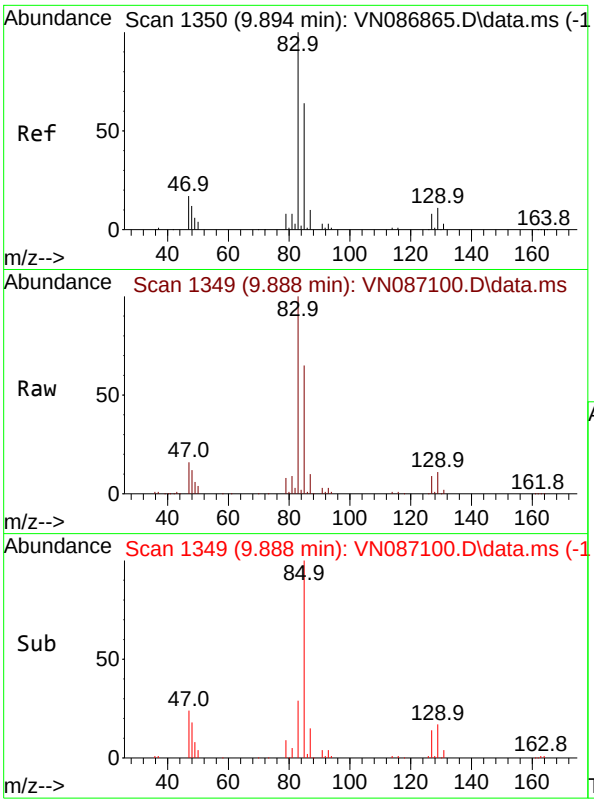


#46
Dibromomethane
Concen: 59.155 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 93 Resp: 76751

Ion	Ratio	Lower	Upper
93	100		
95	83.6	67.1	100.7
174	93.9	74.2	111.4



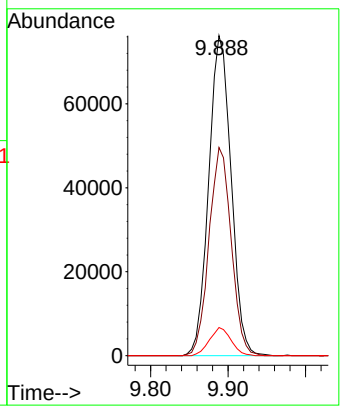


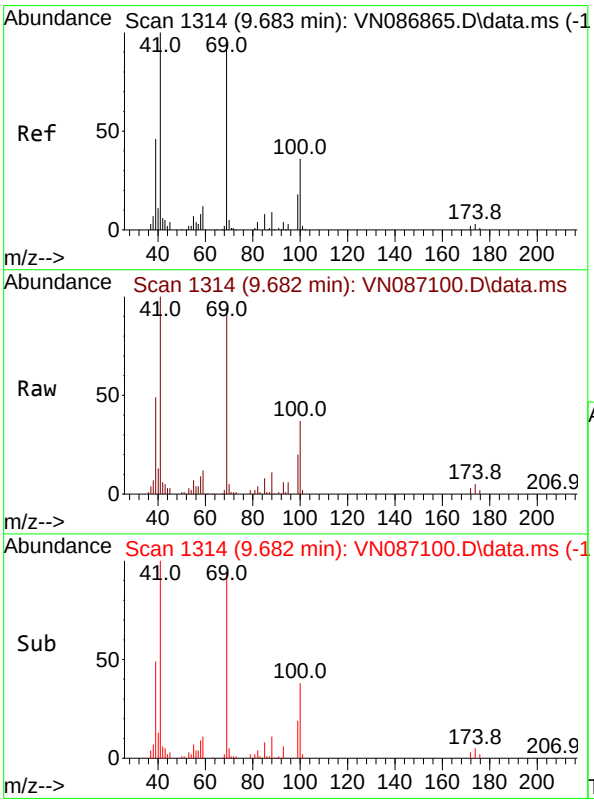
#47
Bromodichloromethane
Concen: 57.289 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 152931

Ion	Ratio	Lower	Upper
83	100		
85	65.1	50.9	76.3
127	8.8	6.6	10.0

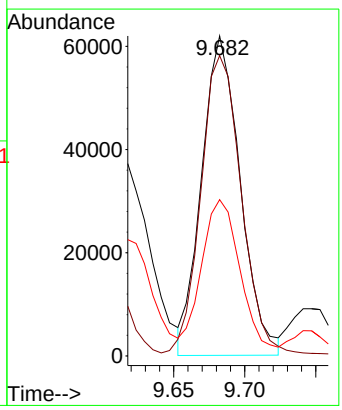


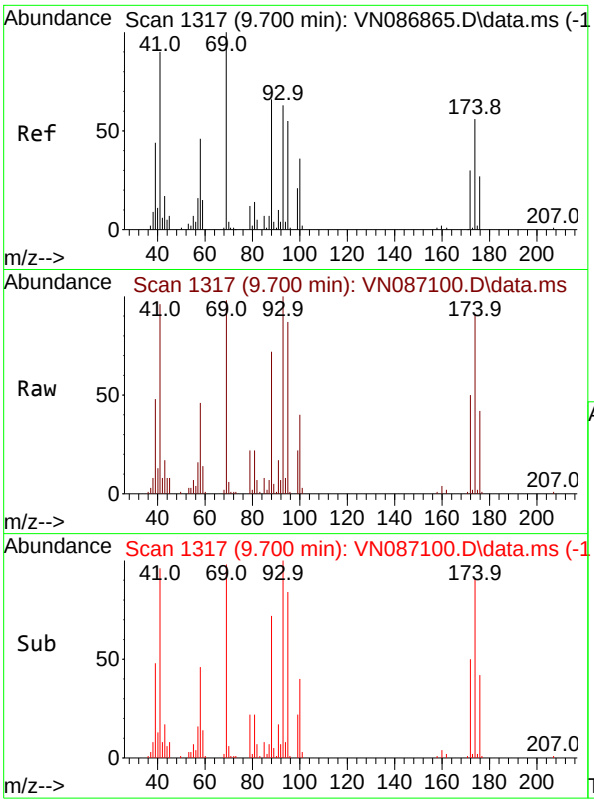


#48
Methyl methacrylate
Concen: 50.770 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 41 Resp: 117229

Ion	Ratio	Lower	Upper
41	100		
69	99.7	74.6	112.0
39	49.8	40.2	60.4



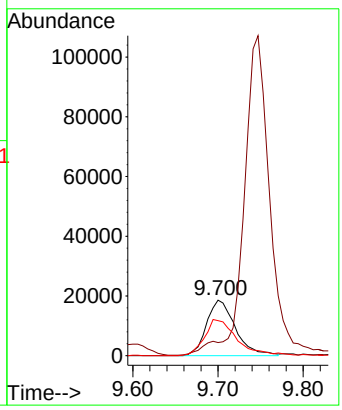


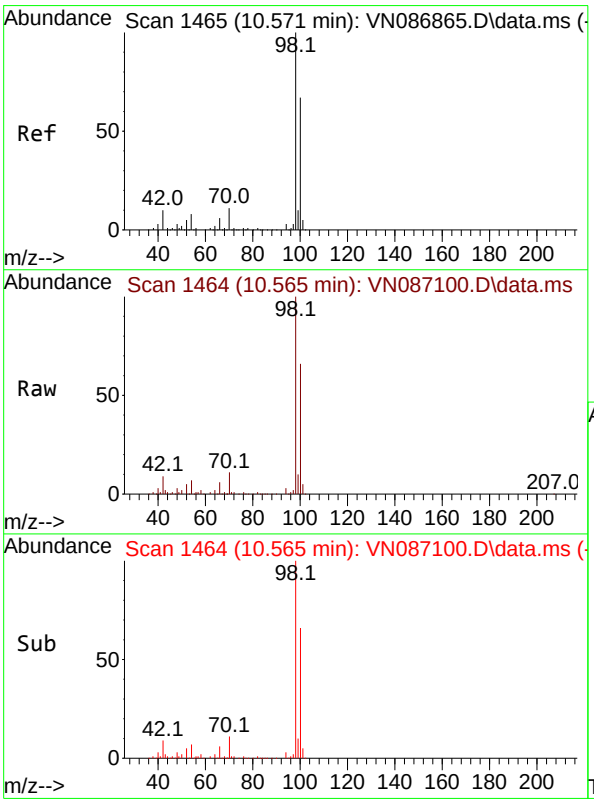
#49
1,4-Dioxane
Concen: 1044.593 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 88 Resp: 43879

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	73.0	57.7	86.5

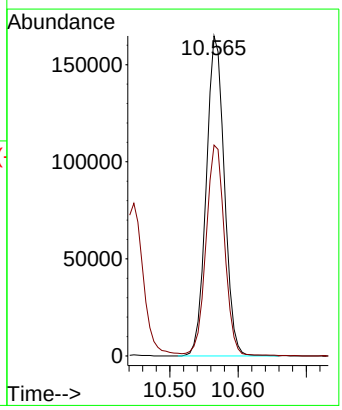


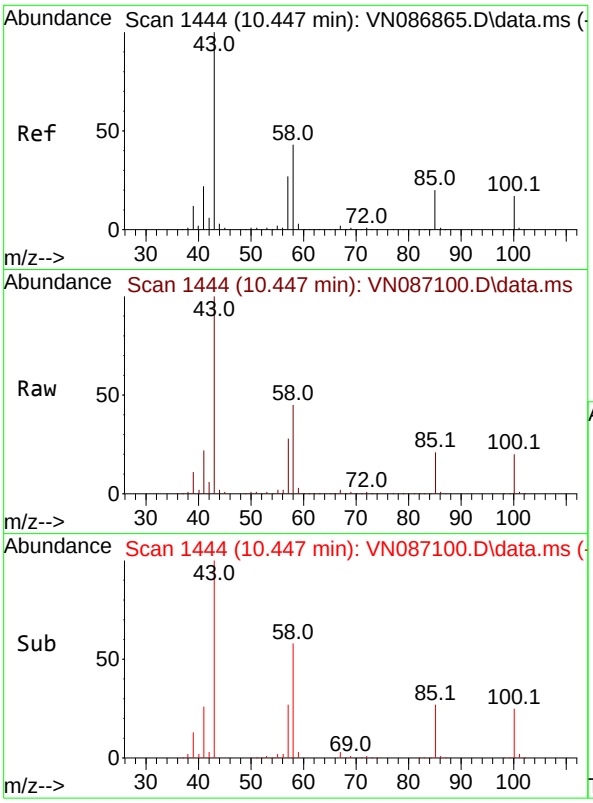


#50
Toluene-d8
Concen: 46.633 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 98 Resp: 304189

Ion	Ratio	Lower	Upper
98	100		
100	68.0	53.4	80.0



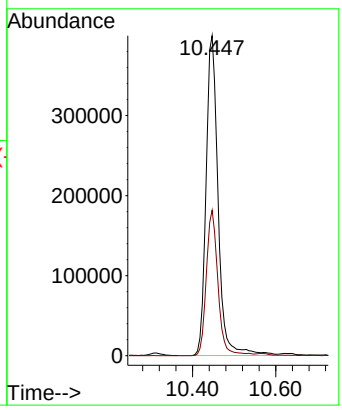


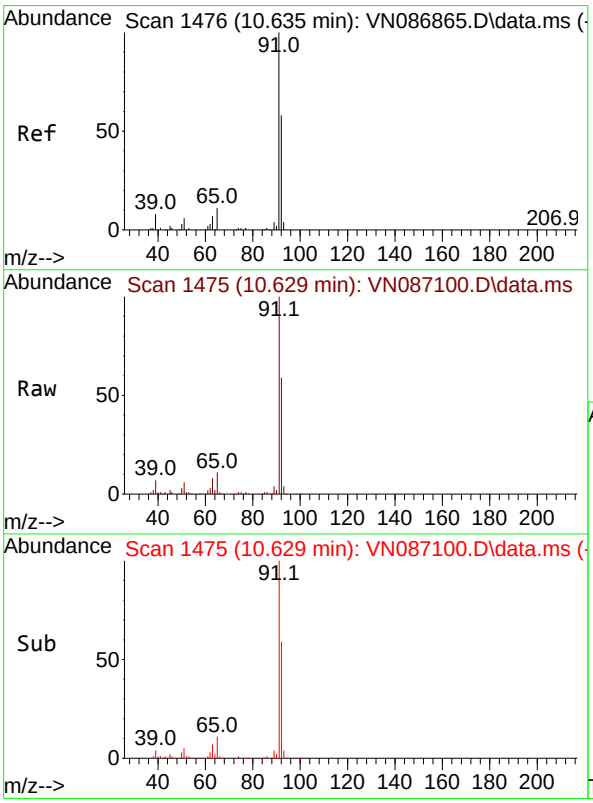
#51
4-Methyl-2-Pentanone
Concen: 266.633 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 805255

Ion	Ratio	Lower	Upper
43	100		
58	44.0	34.2	51.4

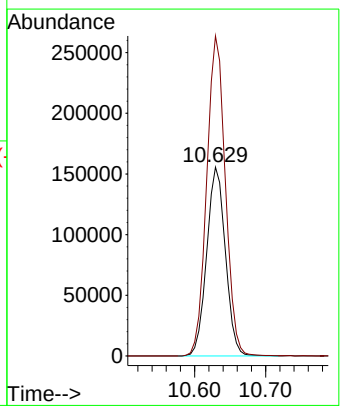


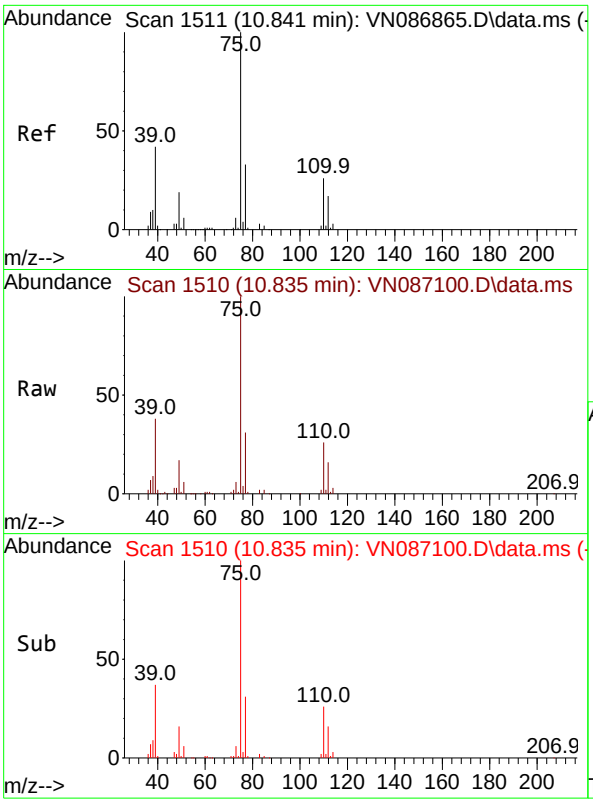


#52
Toluene
Concen: 57.958 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 92 Resp: 284384

Ion	Ratio	Lower	Upper
92	100		
91	169.3	136.5	204.7



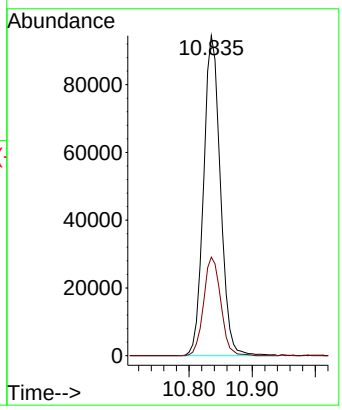


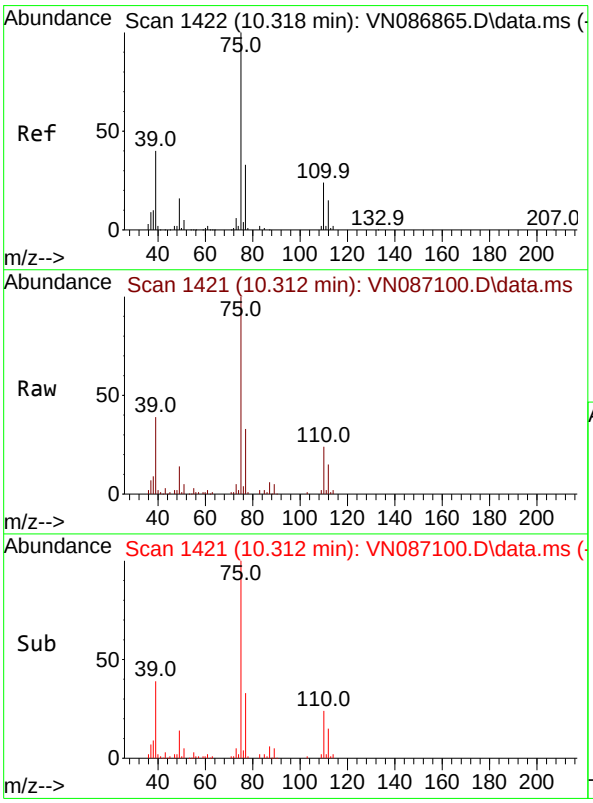
#53
t-1,3-Dichloropropene
Concen: 58.623 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 174988

Ion	Ratio	Lower	Upper
75	100		
77	30.8	26.4	39.6

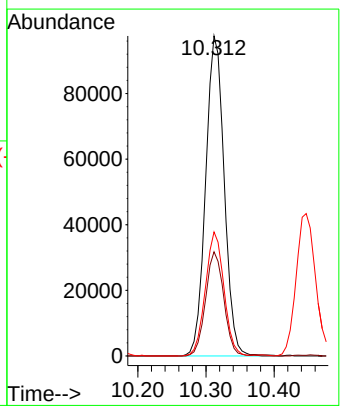


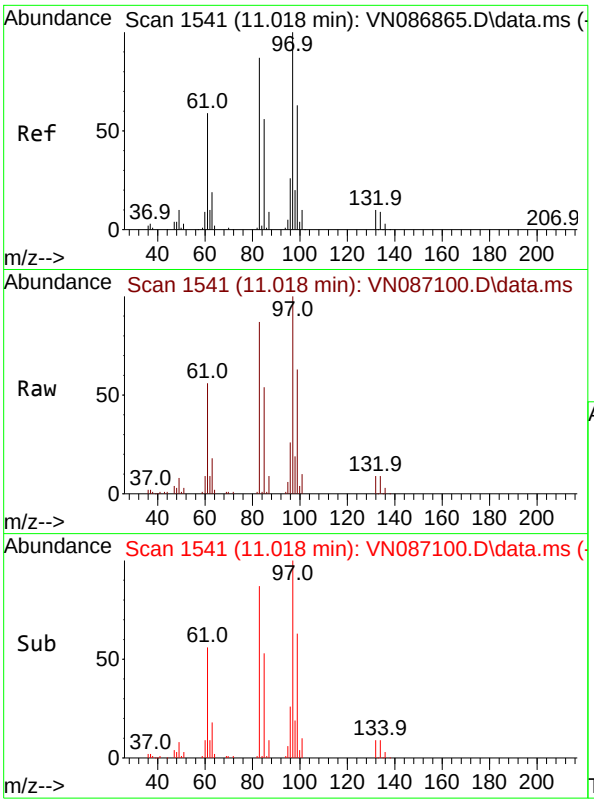


#54
cis-1,3-Dichloropropene
Concen: 57.936 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 75 Resp: 185041

Ion	Ratio	Lower	Upper
75	100		
77	32.6	26.2	39.4
39	38.7	32.3	48.5



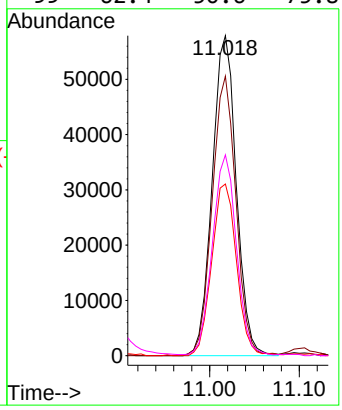


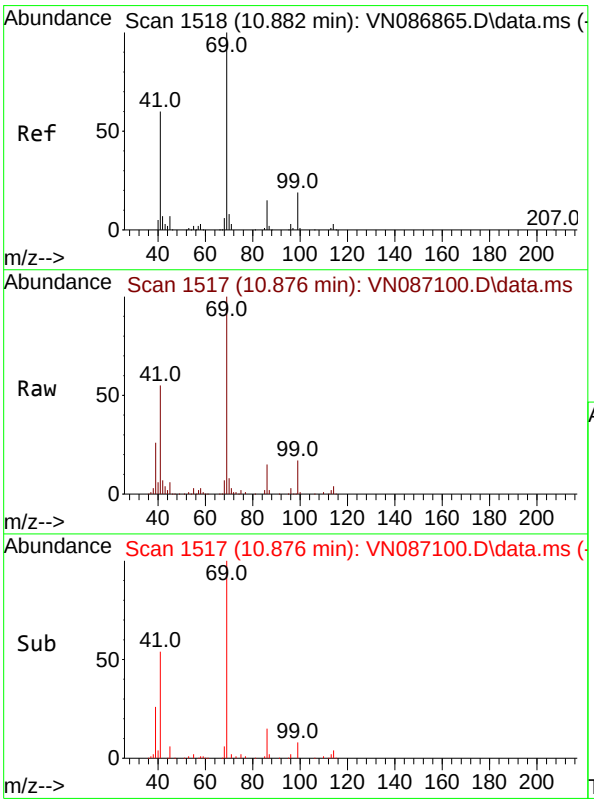
#55
1,1,2-Trichloroethane
Concen: 57.171 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 97 Resp: 107940

Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.7	104.5
85	53.6	45.1	67.7
99	62.4	50.6	75.8

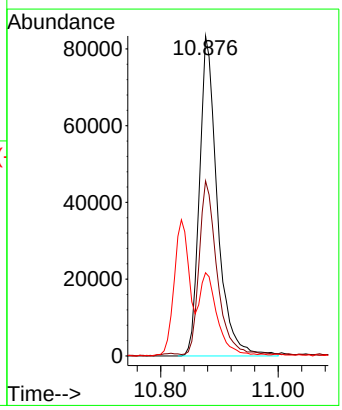


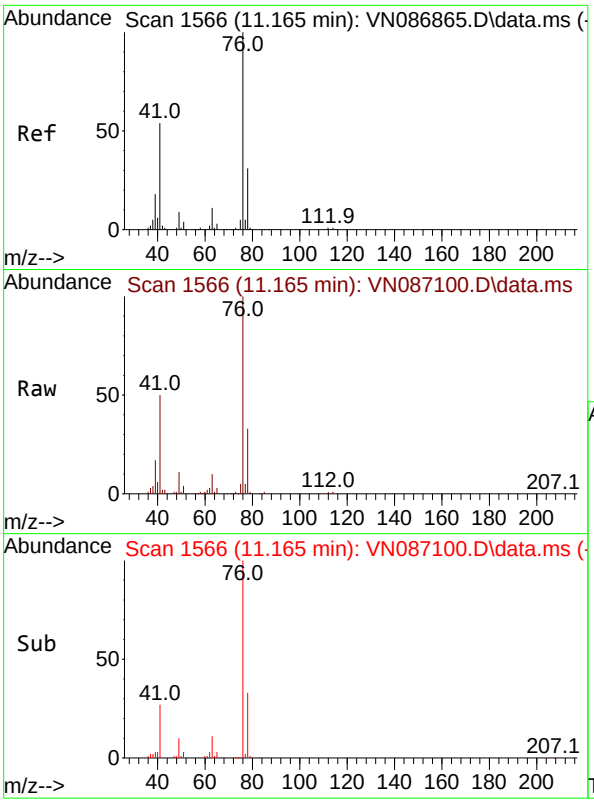


#56
Ethyl methacrylate
Concen: 58.668 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 69 Resp: 176425

Ion	Ratio	Lower	Upper
69	100		
41	54.8	47.2	70.8
39	25.3	23.0	34.6



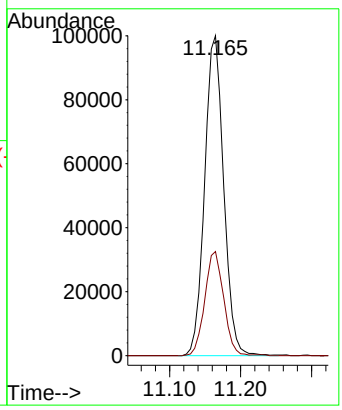


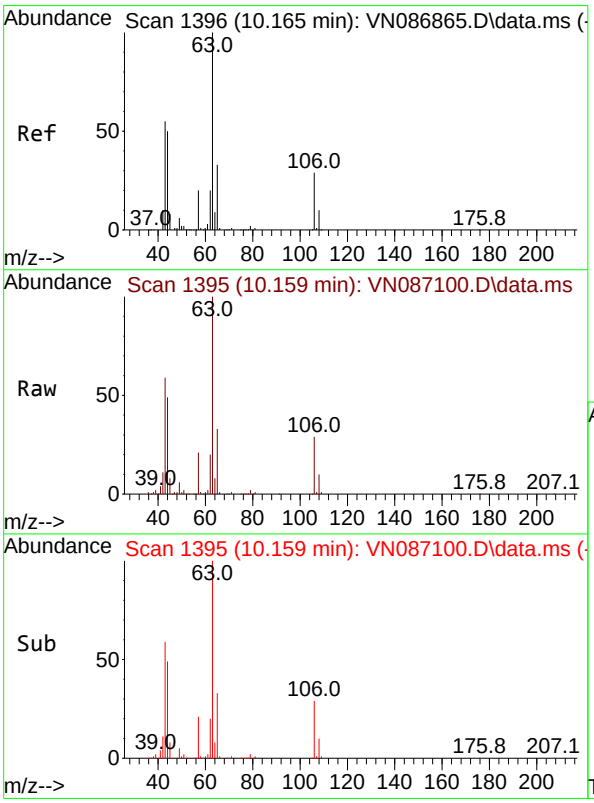
#57
1,3-Dichloropropane
Concen: 56.867 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 186250

Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.3	37.9

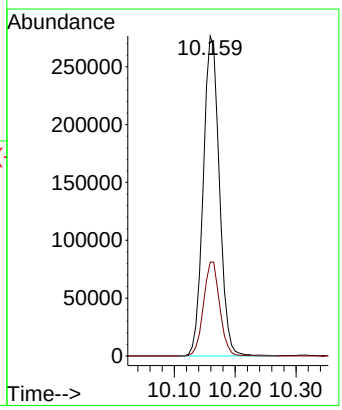


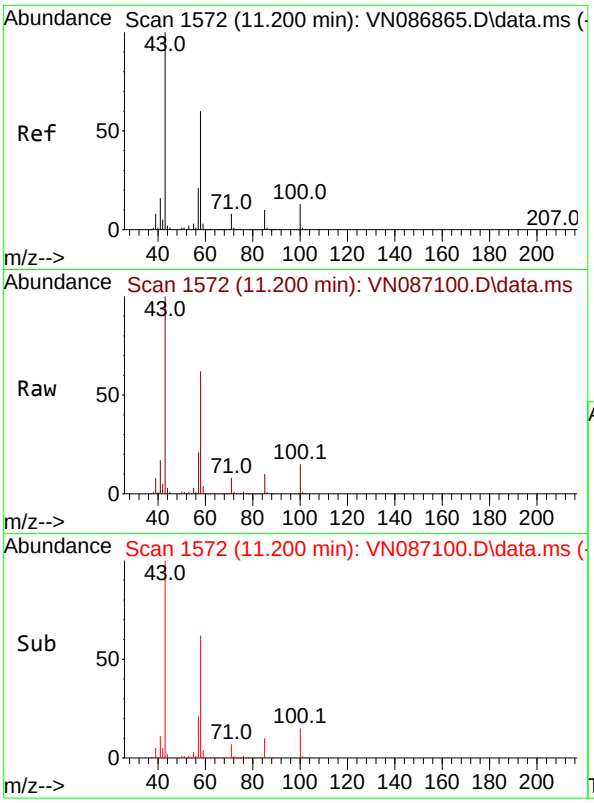


#58
2-Chloroethyl Vinyl ether
Concen: 284.937 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 63 Resp: 511071

Ion	Ratio	Lower	Upper
63	100		
106	29.5	23.0	34.6



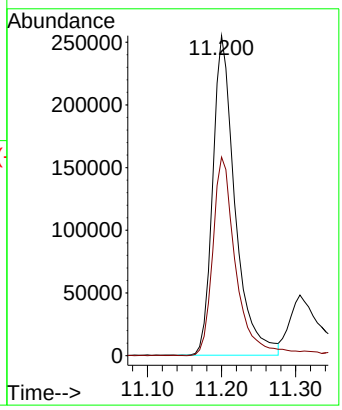


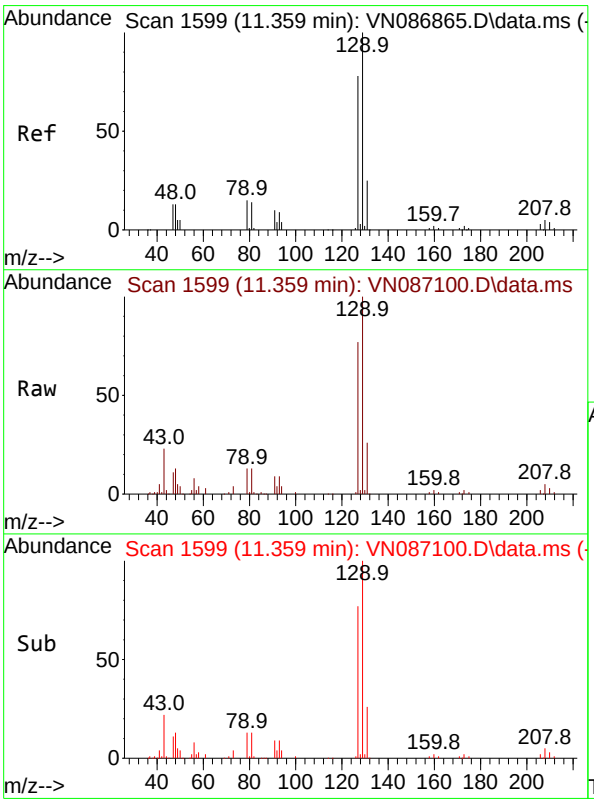
#59
2-Hexanone
Concen: 273.673 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 532387

Ion	Ratio	Lower	Upper
43	100		
58	65.2	30.4	91.3

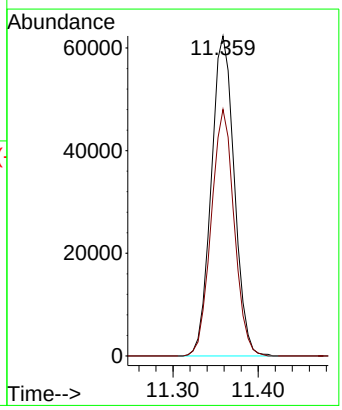


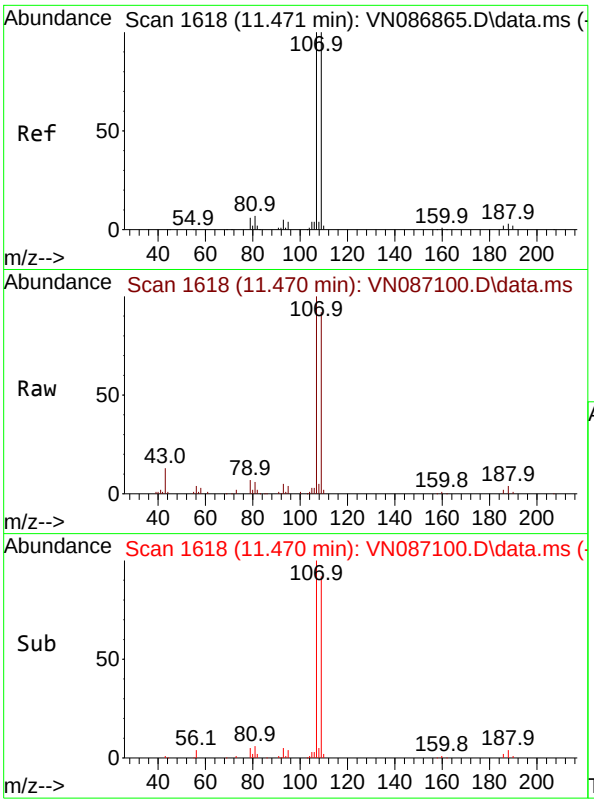


#60
Dibromochloromethane
Concen: 59.583 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:129 Resp: 117206

Ion	Ratio	Lower	Upper
129	100		
127	76.7	38.6	115.8



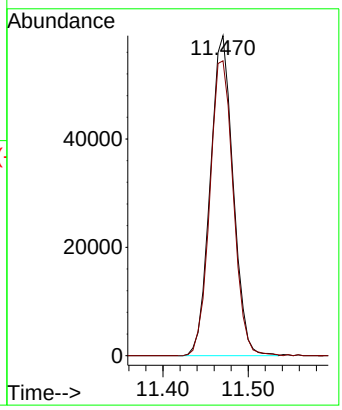


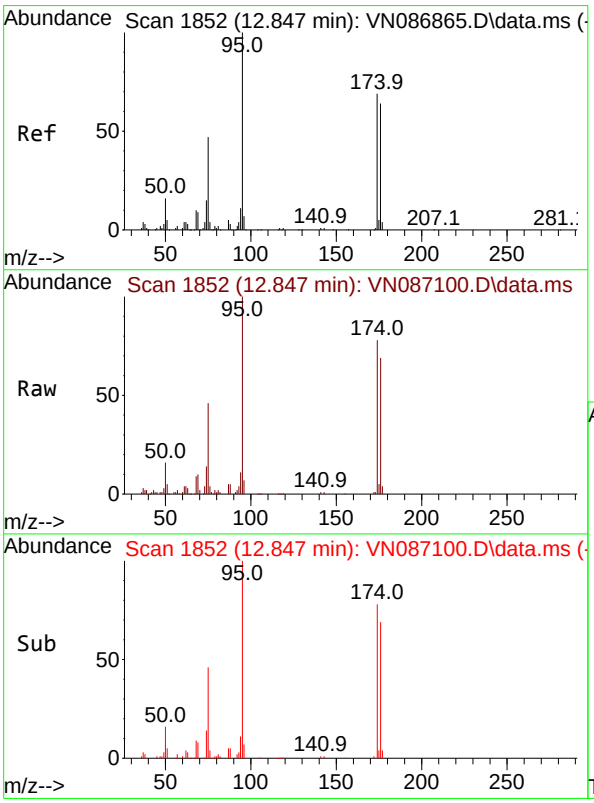
#61
1,2-Dibromoethane
Concen: 57.064 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 110430

Ion	Ratio	Lower	Upper
107	100		
109	94.2	76.3	114.5

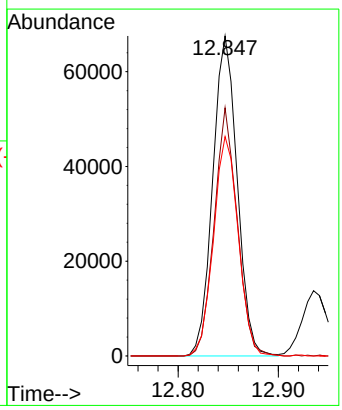


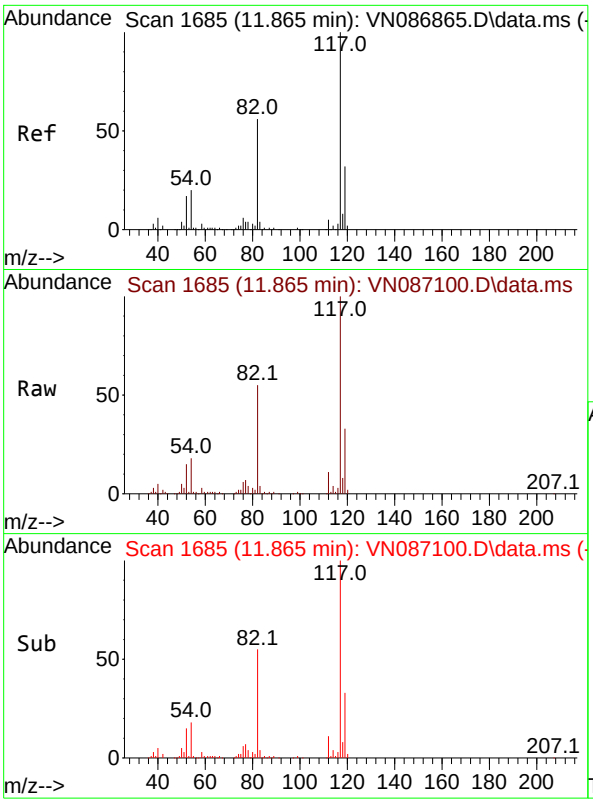


#62
4-Bromofluorobenzene
Concen: 47.149 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 95 Resp: 114266

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	141.8
176	69.3	0.0	132.6



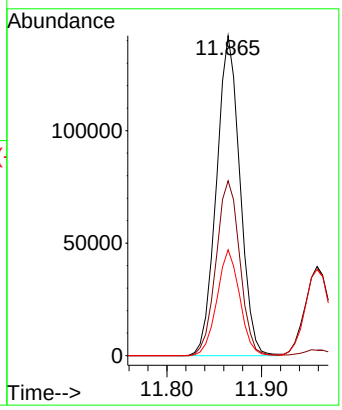


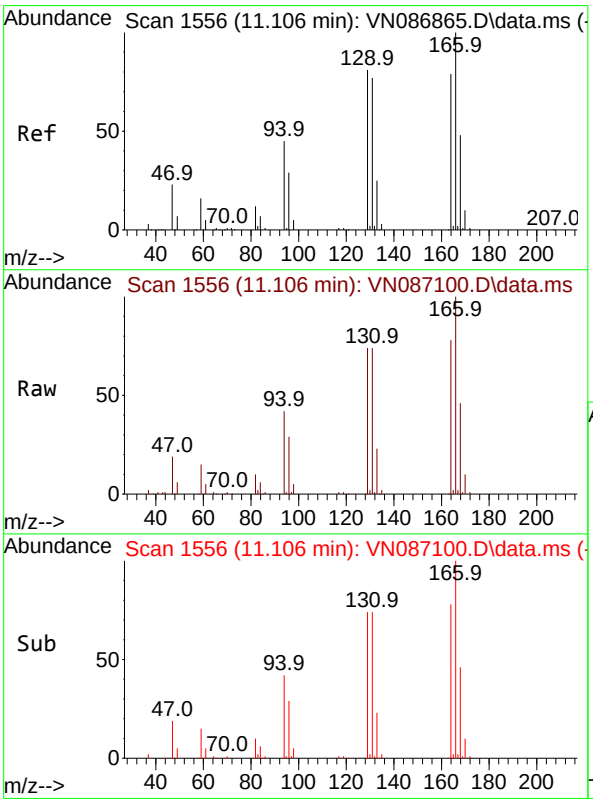
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 245271

Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.6	67.0
119	33.1	25.5	38.3

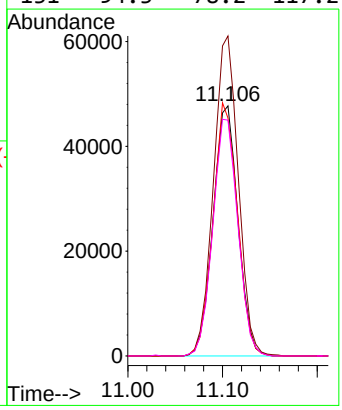


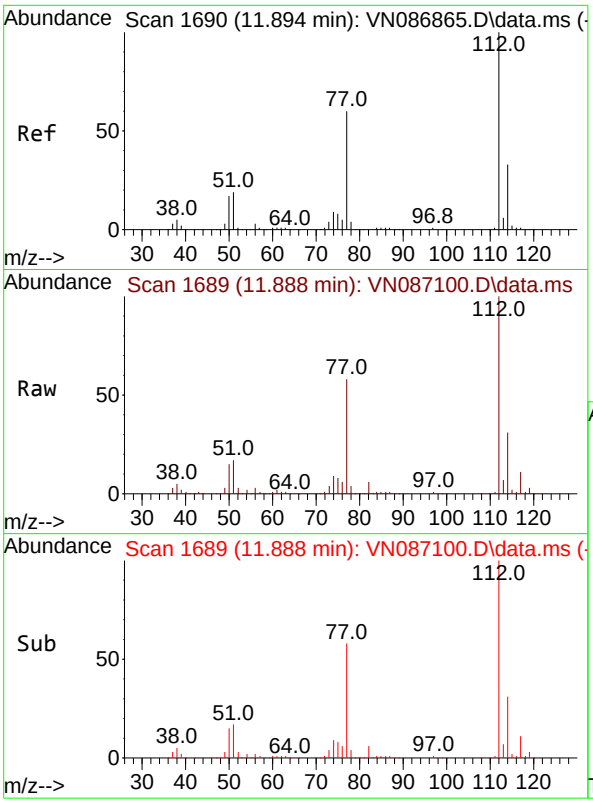


#64
Tetrachloroethene
Concen: 56.223 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:164 Resp: 87272

Ion	Ratio	Lower	Upper
164	100		
166	127.9	101.8	152.8
129	95.1	83.0	124.4
131	94.3	78.2	117.2



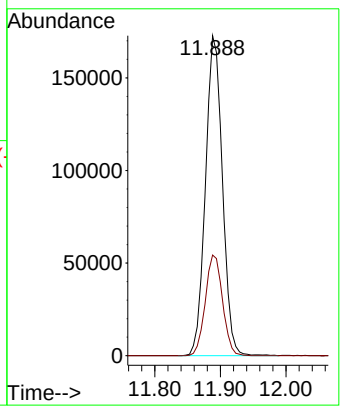


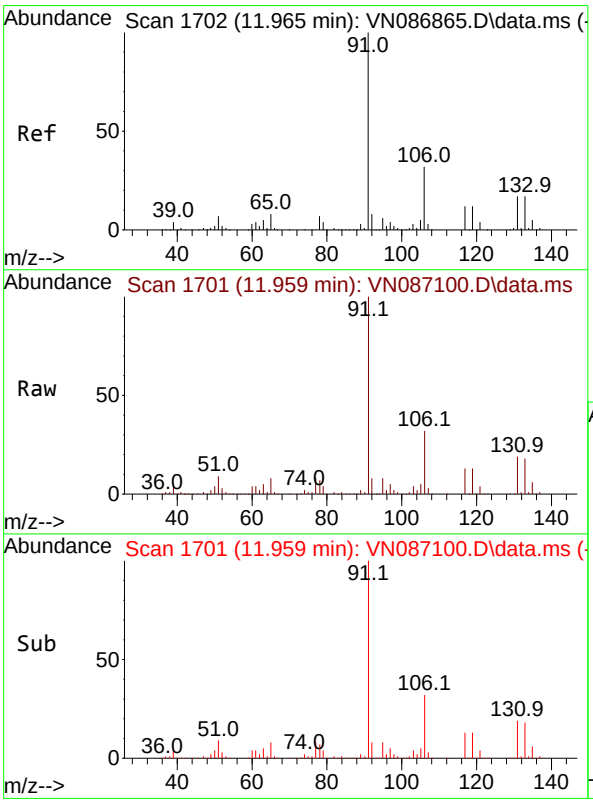
#65
Chlorobenzene
Concen: 57.431 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 310675

Ion	Ratio	Lower	Upper
112	100		
114	31.4	26.2	39.2

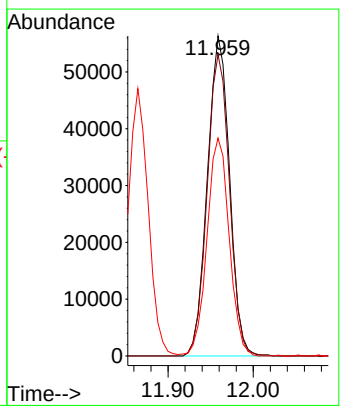


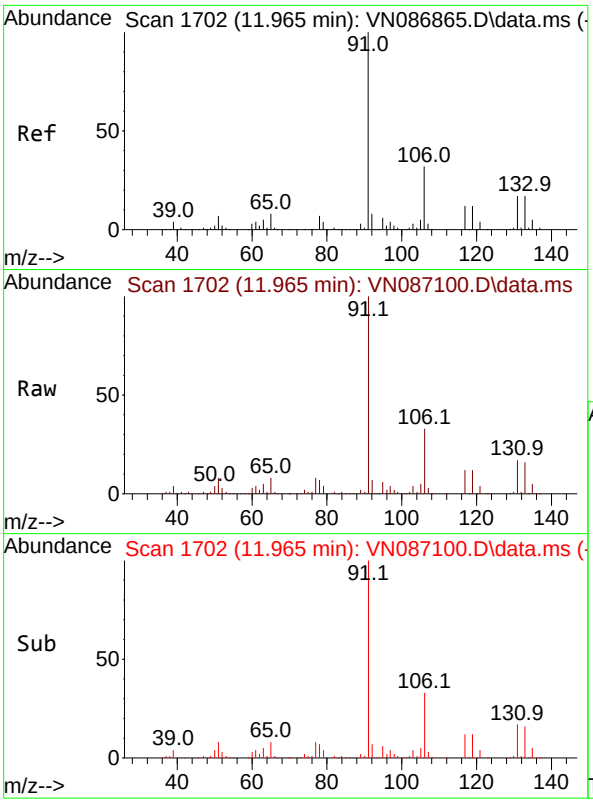


#66
1,1,1,2-Tetrachloroethane
Concen: 58.485 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:131 Resp: 101699

Ion	Ratio	Lower	Upper
131	100		
133	95.0	48.3	144.8
119	68.1	34.0	101.8



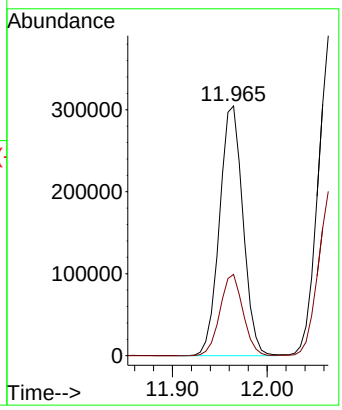


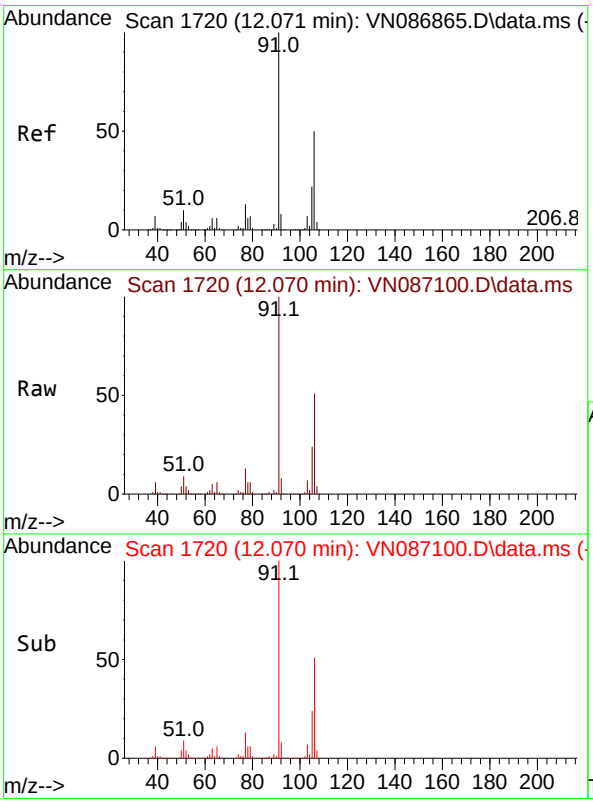
#67
Ethyl Benzene
Concen: 56.340 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 524965

Ion	Ratio	Lower	Upper
91	100		
106	32.6	25.4	38.2

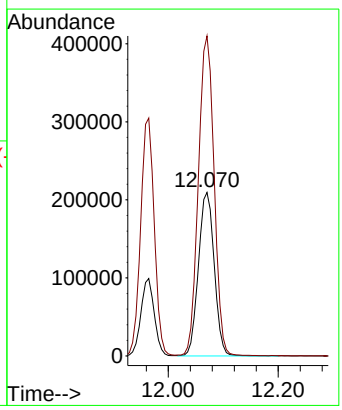


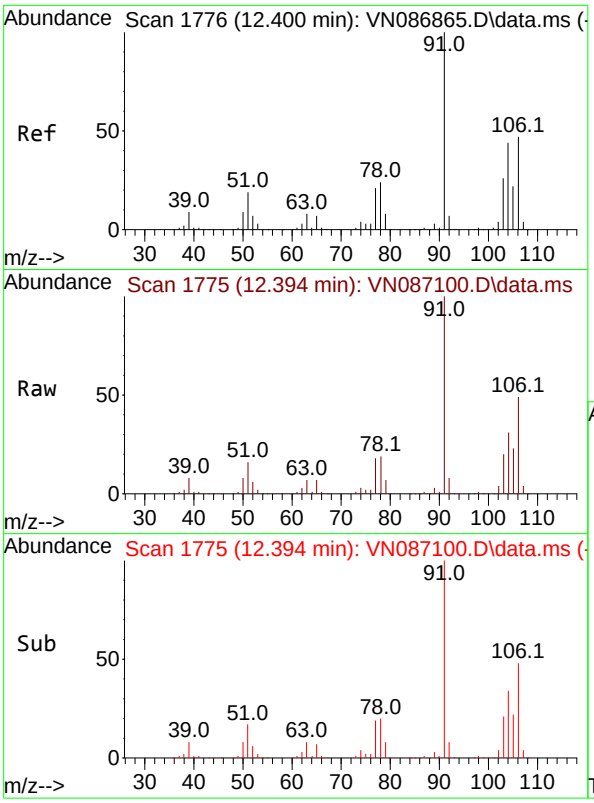


#68
m/p-Xylenes
Concen: 117.113 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:106 Resp: 417726

Ion	Ratio	Lower	Upper
106	100		
91	195.4	159.4	239.0



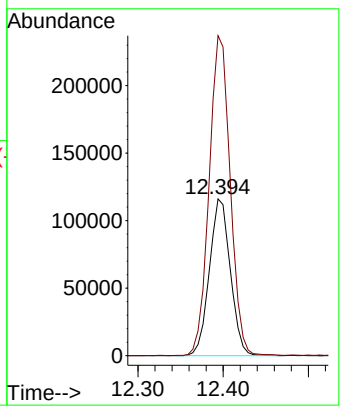


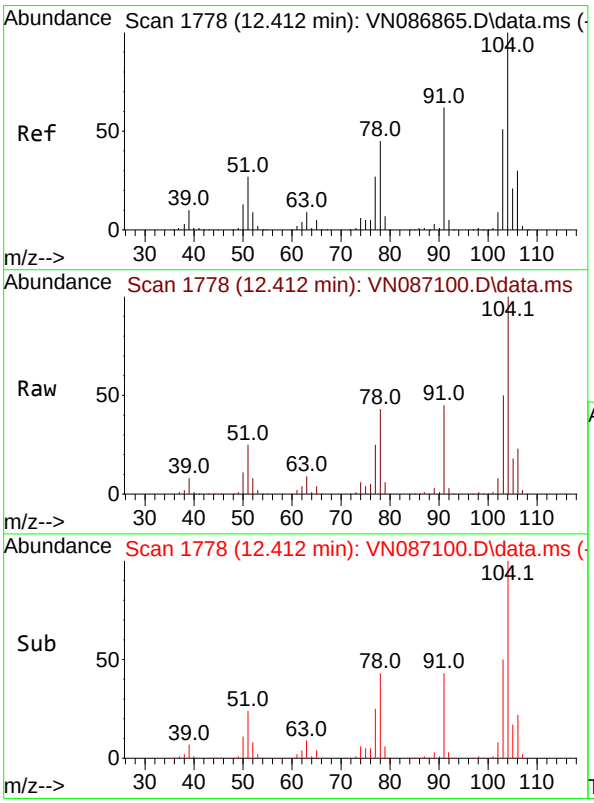
#69
o-Xylene
Concen: 57.962 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 198006

Ion	Ratio	Lower	Upper
106	100		
91	205.7	106.1	318.1

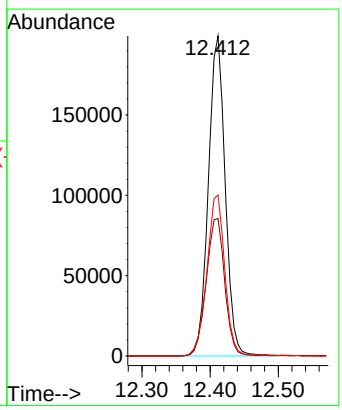


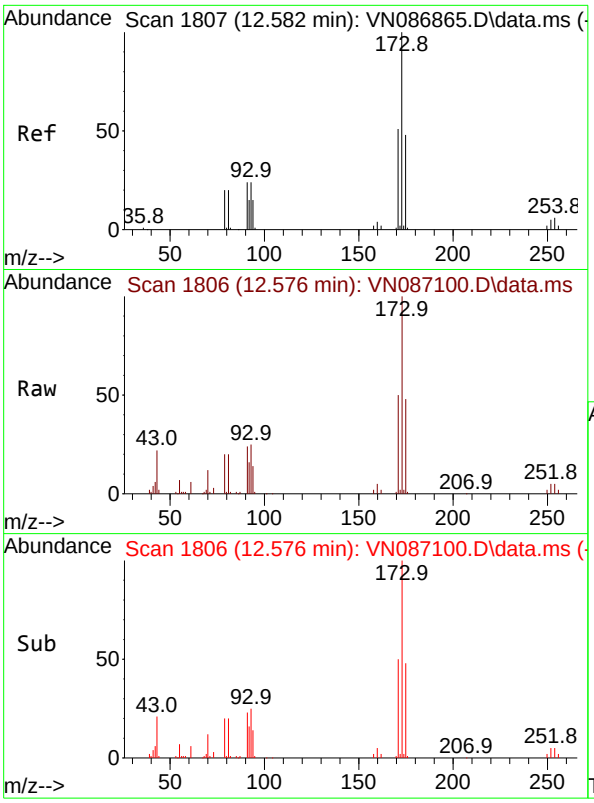


#70
Styrene
Concen: 58.606 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:104 Resp: 342586

Ion	Ratio	Lower	Upper
104	100		
78	47.4	38.5	57.7
103	53.6	43.1	64.7



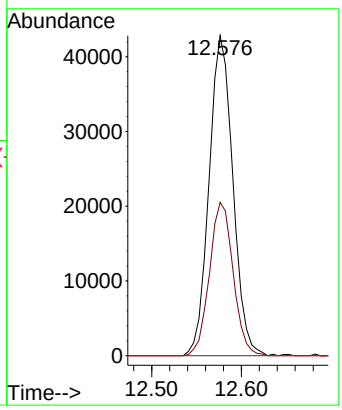


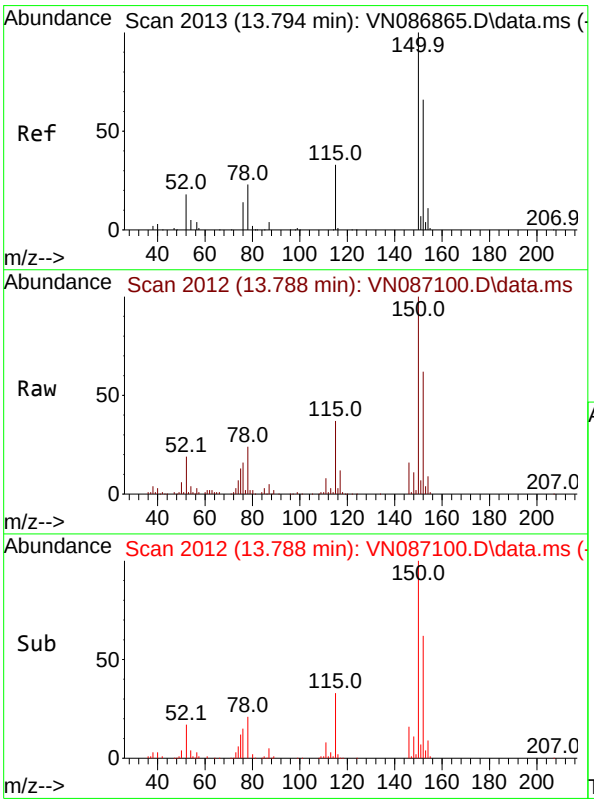
#71
Bromoform
Concen: 61.270 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:173 Resp: 78941

Ion	Ratio	Lower	Upper
173	100		
175	47.6	24.1	72.4
254	0.0	0.0	0.0

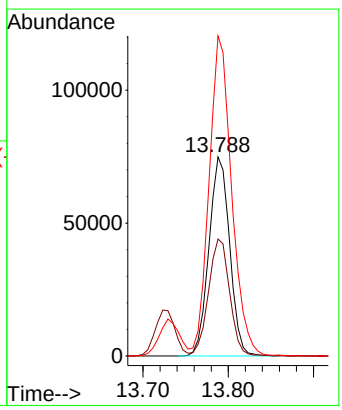


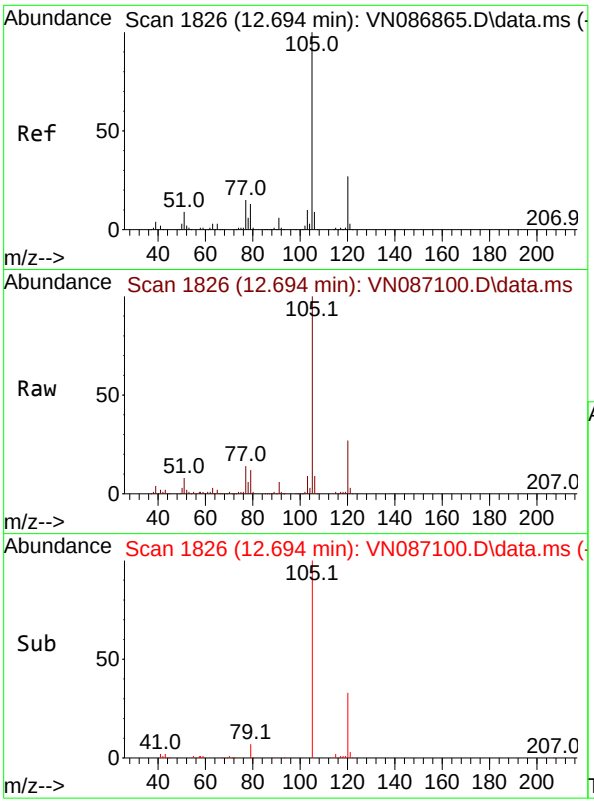


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:152 Resp: 126484

Ion	Ratio	Lower	Upper
152	100		
115	60.1	30.1	90.5
150	175.4	0.0	345.0



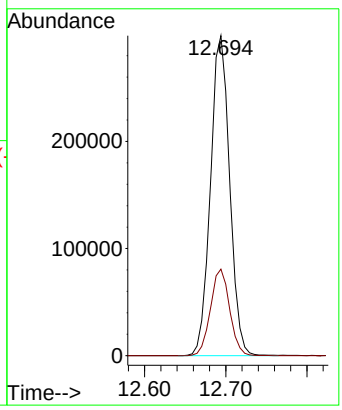


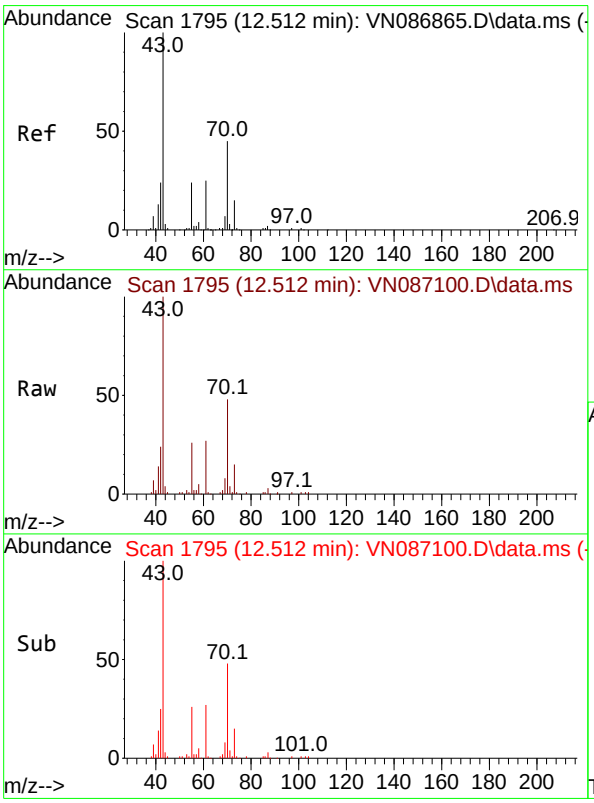
#73
Isopropylbenzene
Concen: 53.235 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 490532

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.5	40.4

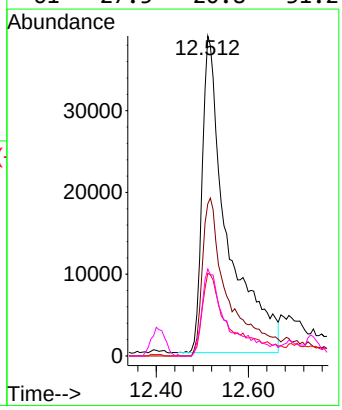


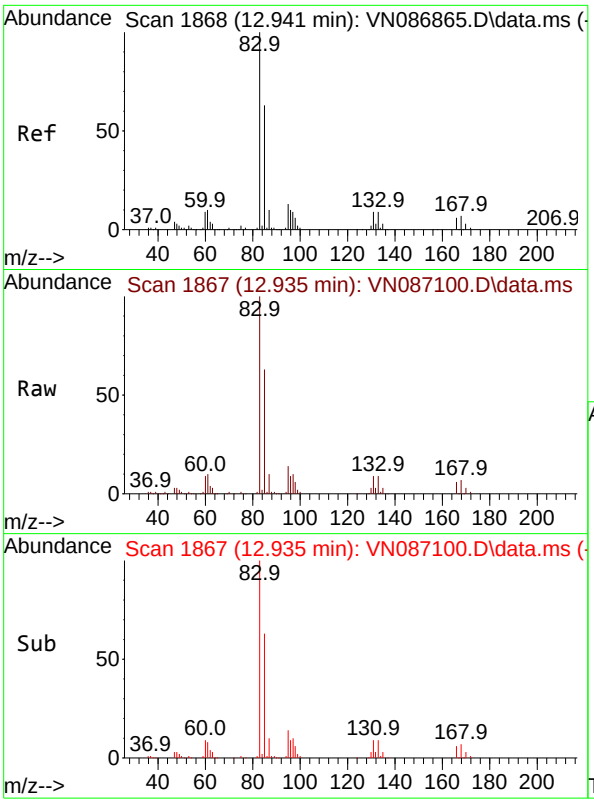


#74
N-amyl acetate
Concen: 45.622 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 43 Resp: 146899

Ion	Ratio	Lower	Upper
43	100		
70	51.7	37.6	56.4
55	28.8	19.0	28.6#
61	27.5	20.8	31.2



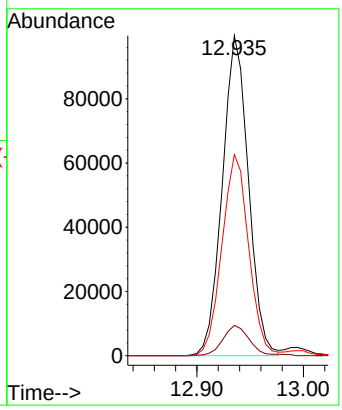


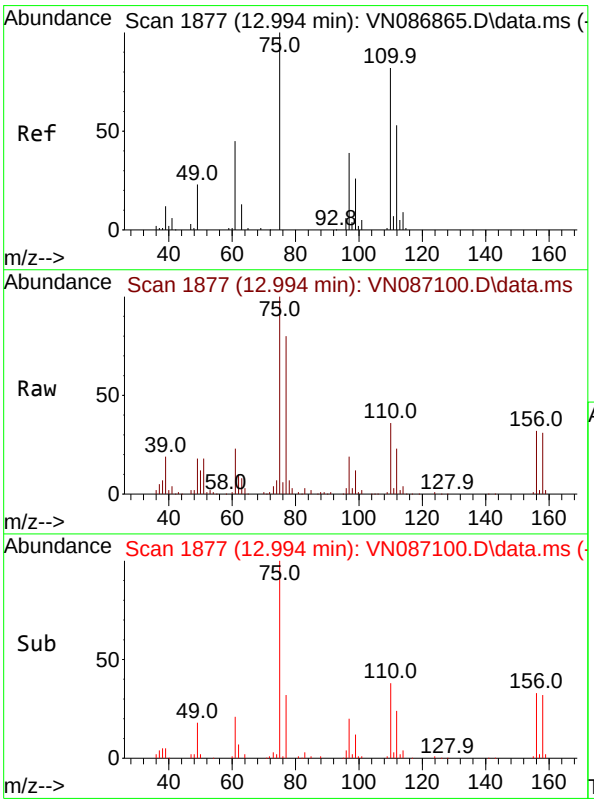
#75
1,1,2,2-Tetrachloroethane
Concen: 54.402 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 169825

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.9	14.7
85	64.2	32.0	96.0

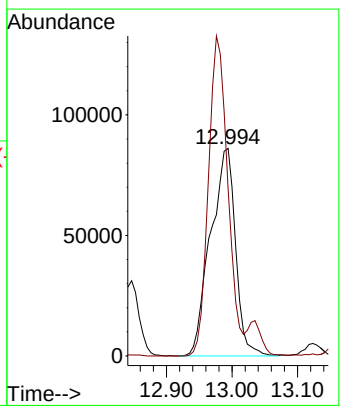


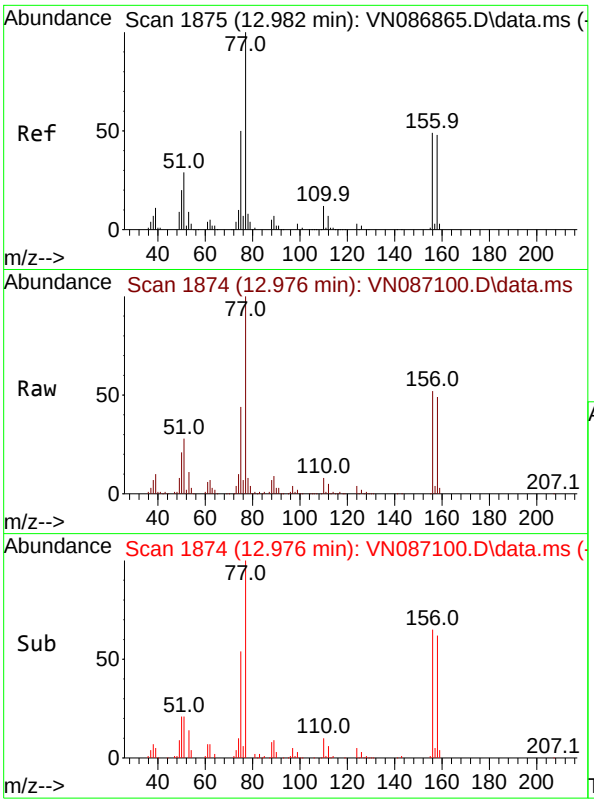


#76
1,2,3-Trichloropropane
Concen: 75.714 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 75 Resp: 227640

Ion	Ratio	Lower	Upper
75	100		
77	119.6	79.3	237.9



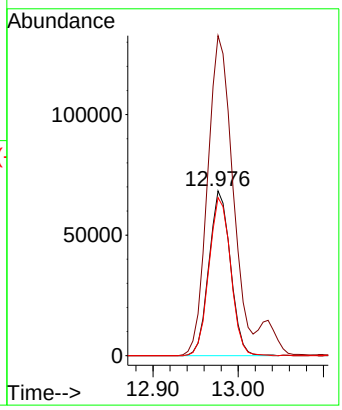


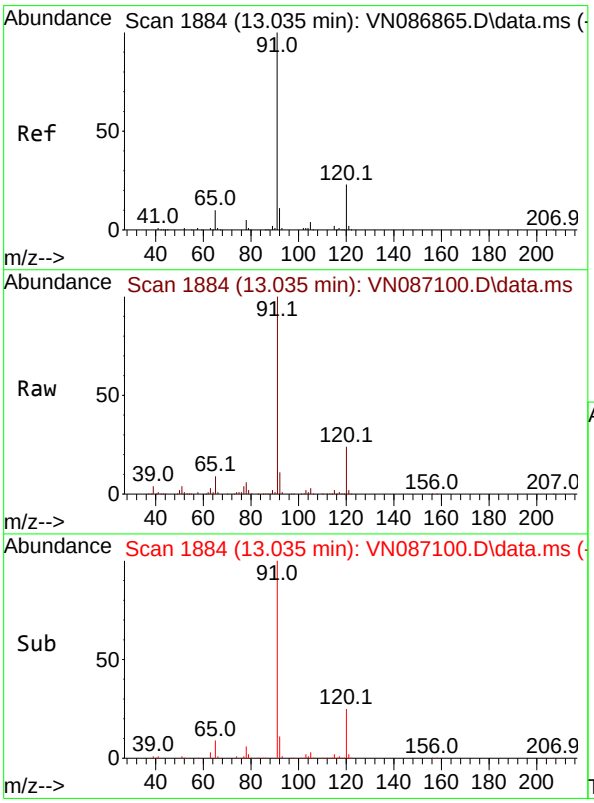
#77
Bromobenzene
Concen: 56.782 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:156 Resp: 119991

Ion	Ratio	Lower	Upper
156	100		
77	226.9	117.7	353.1
158	96.7	48.1	144.4

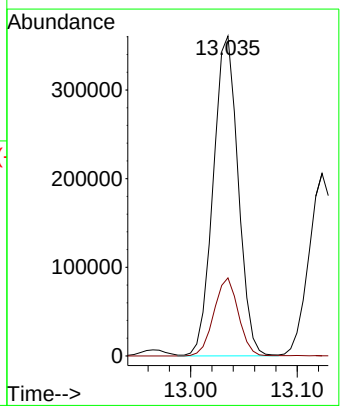


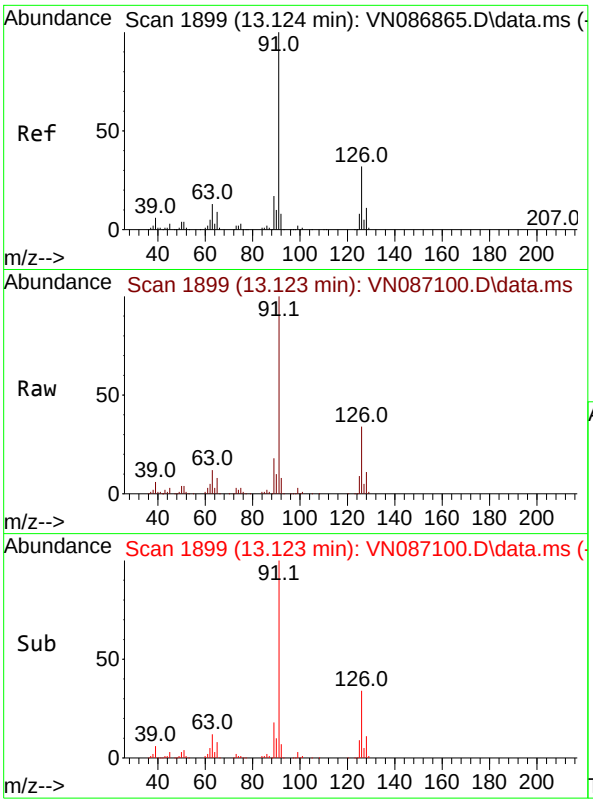


#78
n-propylbenzene
Concen: 52.332 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 91 Resp: 586015

Ion	Ratio	Lower	Upper
91	100		
120	23.9	11.4	34.2



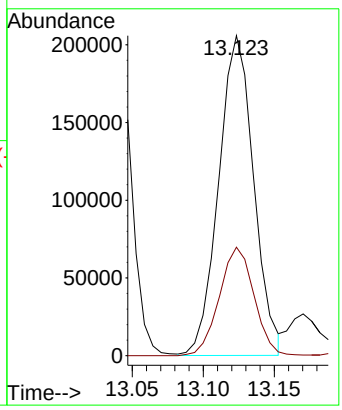


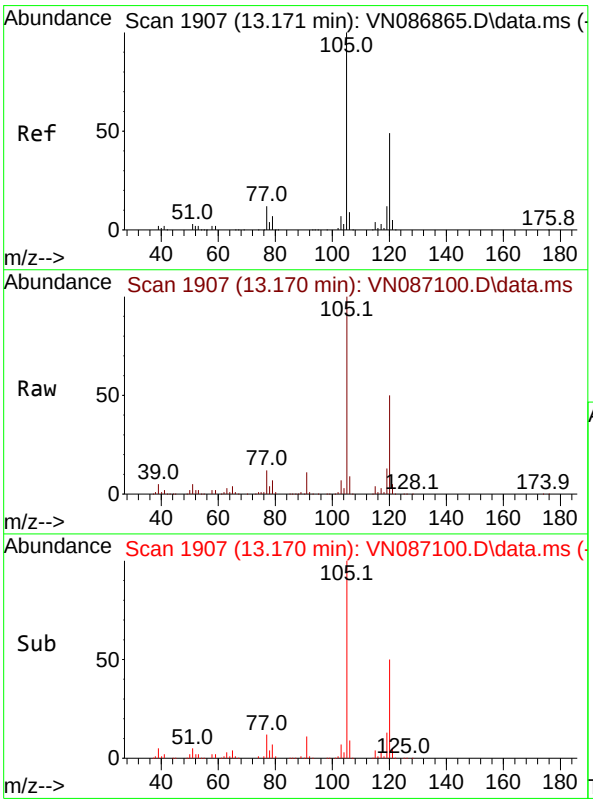
#79
2-Chlorotoluene
Concen: 52.556 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 352946

Ion	Ratio	Lower	Upper
91	100		
126	33.6	16.2	48.5

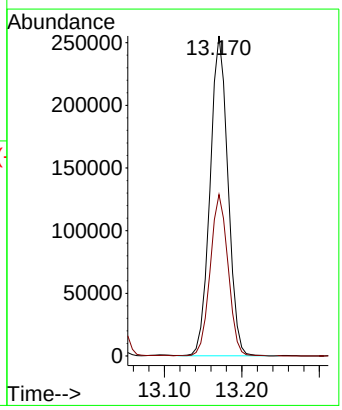


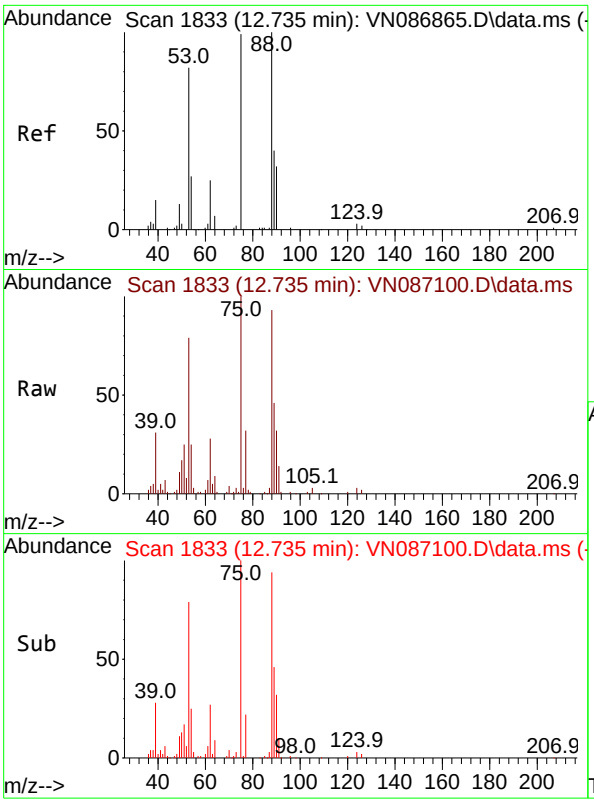


#80
1,3,5-Trimethylbenzene
Concen: 53.568 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:105 Resp: 407528

Ion	Ratio	Lower	Upper
105	100		
120	50.5	24.9	74.6



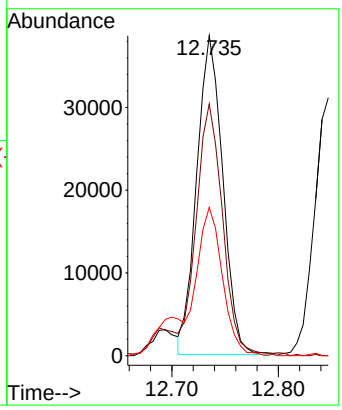


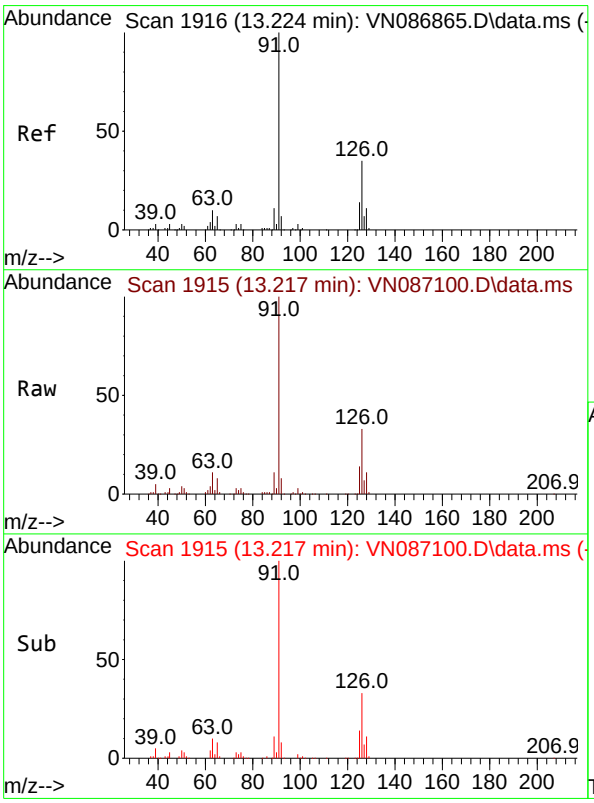
#81
trans-1,4-Dichloro-2-butene
Concen: 50.097 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 65431

Ion	Ratio	Lower	Upper
75	100		
53	80.6	66.6	99.8
89	45.5	36.7	55.1

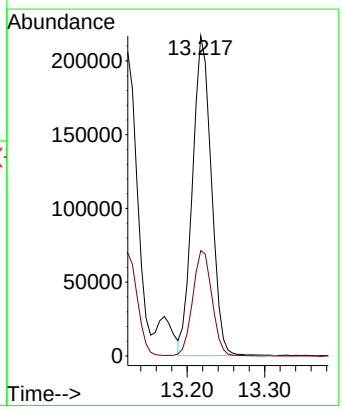


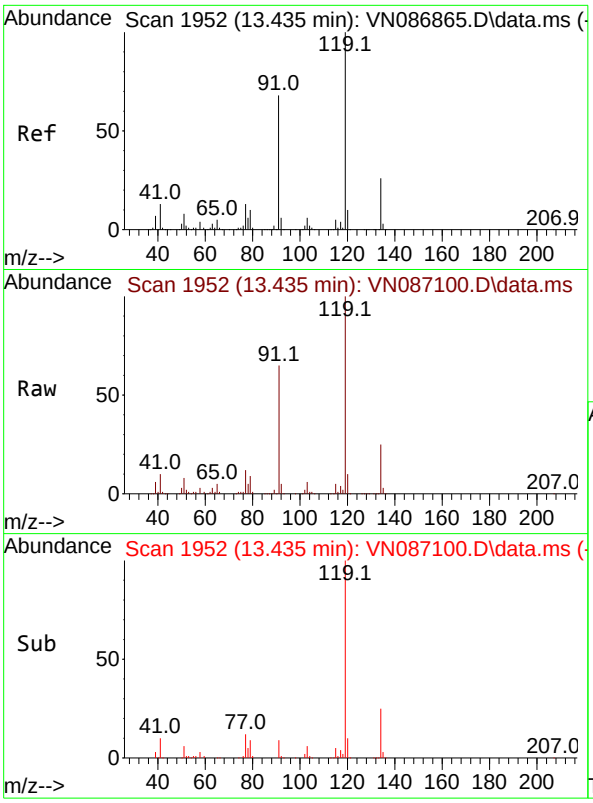


#82
4-Chlorotoluene
Concen: 53.692 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 91 Resp: 364837

Ion	Ratio	Lower	Upper
91	100		
126	33.9	16.7	50.1



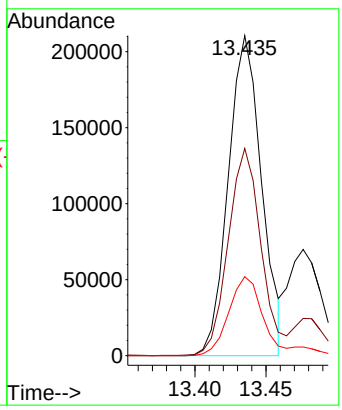


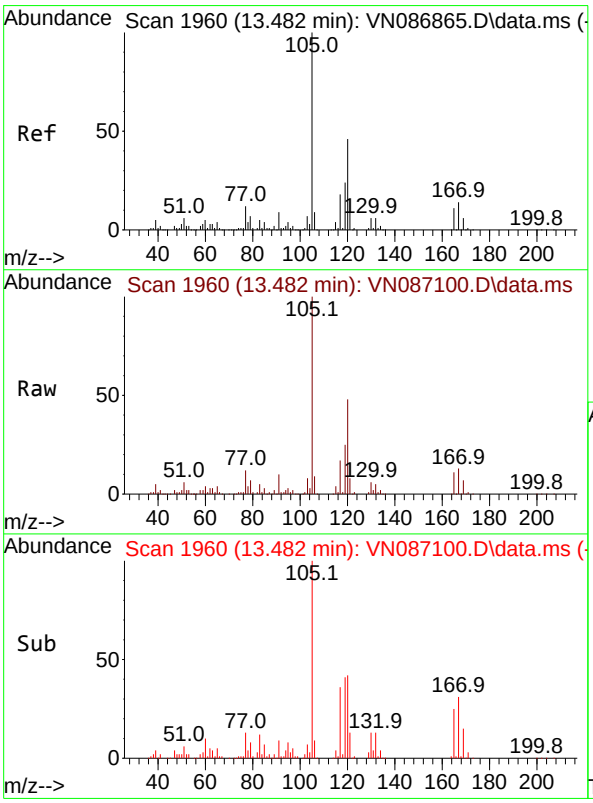
#83
tert-Butylbenzene
Concen: 49.305 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:119 Resp: 343353

Ion	Ratio	Lower	Upper
119	100		
91	64.3	32.1	96.5
134	26.9	13.4	40.1

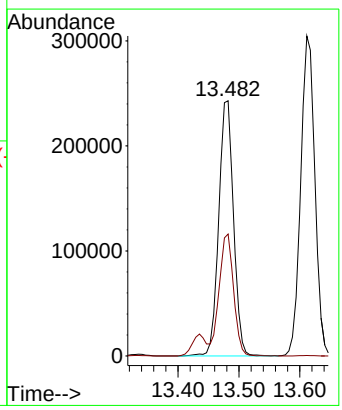


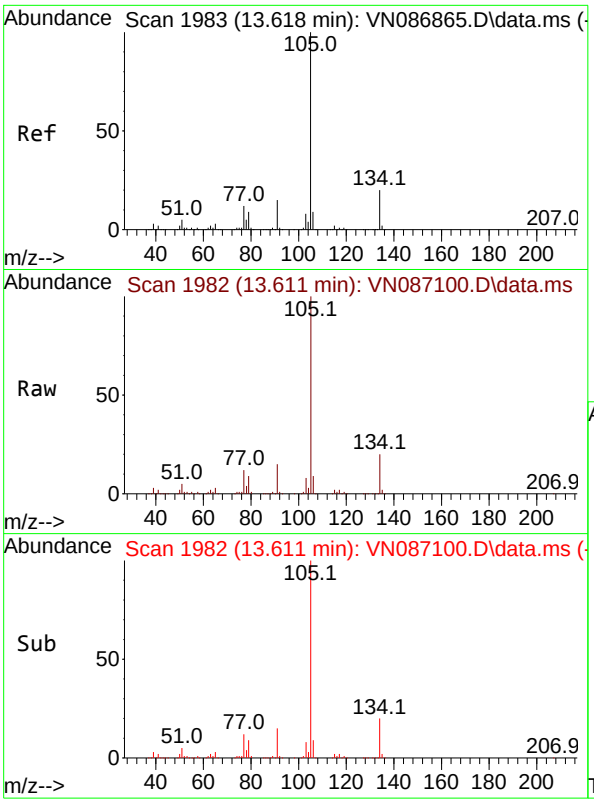


#84
1,2,4-Trimethylbenzene
Concen: 53.720 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:105 Resp: 409813

Ion	Ratio	Lower	Upper
105	100		
120	46.3	23.2	69.6



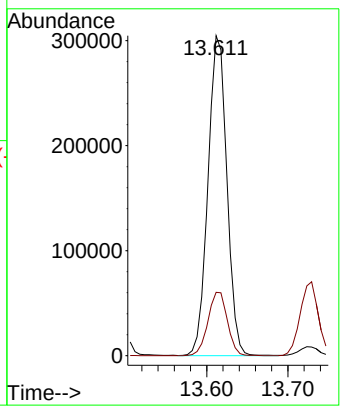


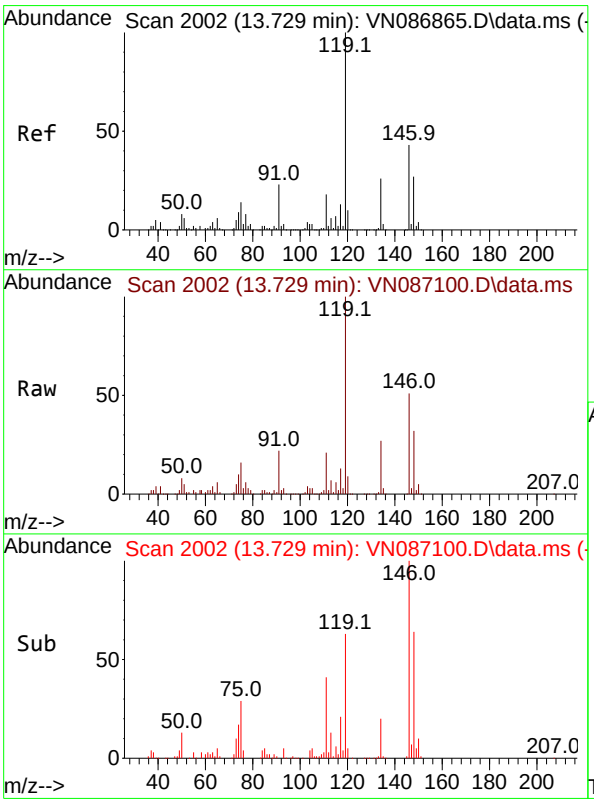
#85
sec-Butylbenzene
Concen: 48.691 ug/l
RT: 13.611 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 492411

Ion	Ratio	Lower	Upper
105	100		
134	20.4	10.0	30.0

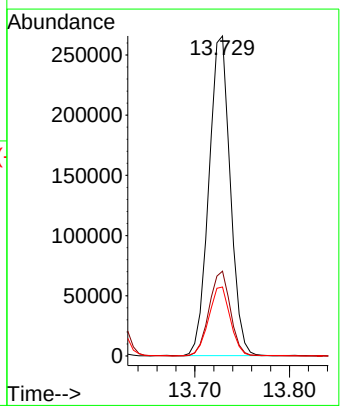


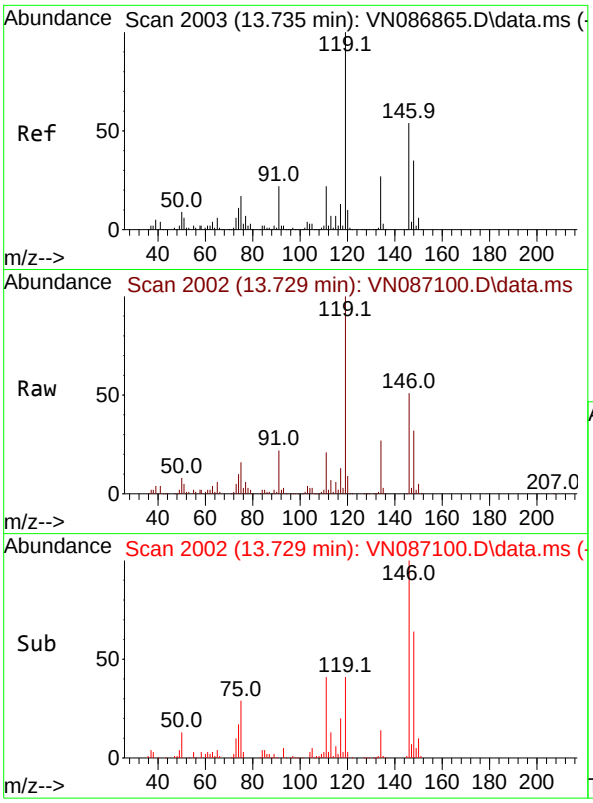


#86
p-Isopropyltoluene
Concen: 49.610 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:119 Resp: 414725

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.5	40.4
91	22.1	11.5	34.4



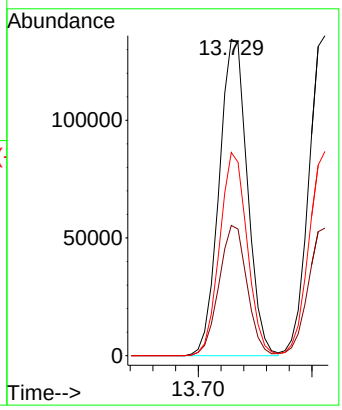


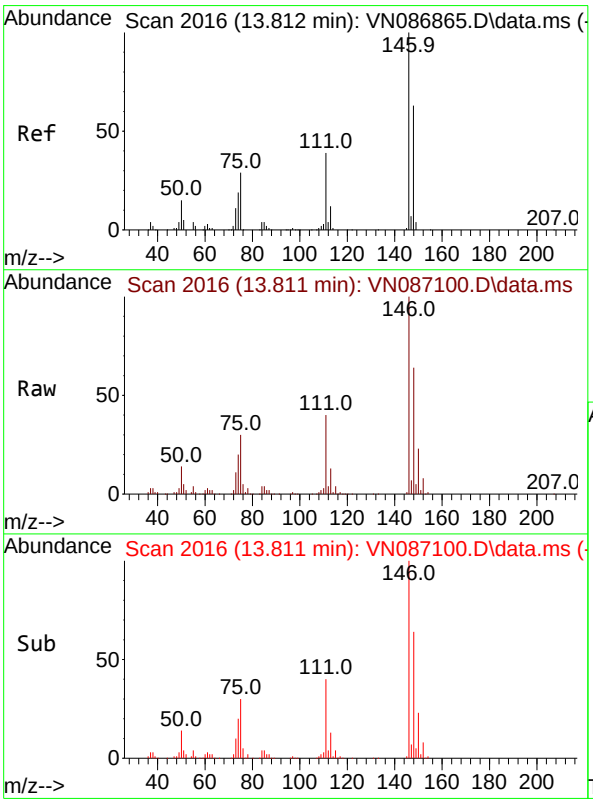
#87
1,3-Dichlorobenzene
Concen: 55.899 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 232408

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.9	62.8
148	62.6	32.0	96.2

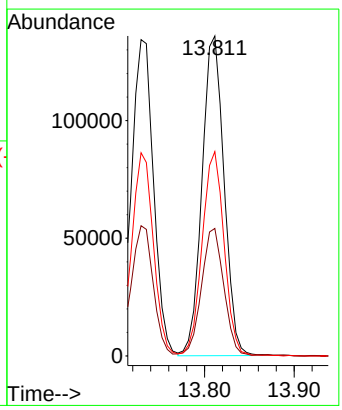


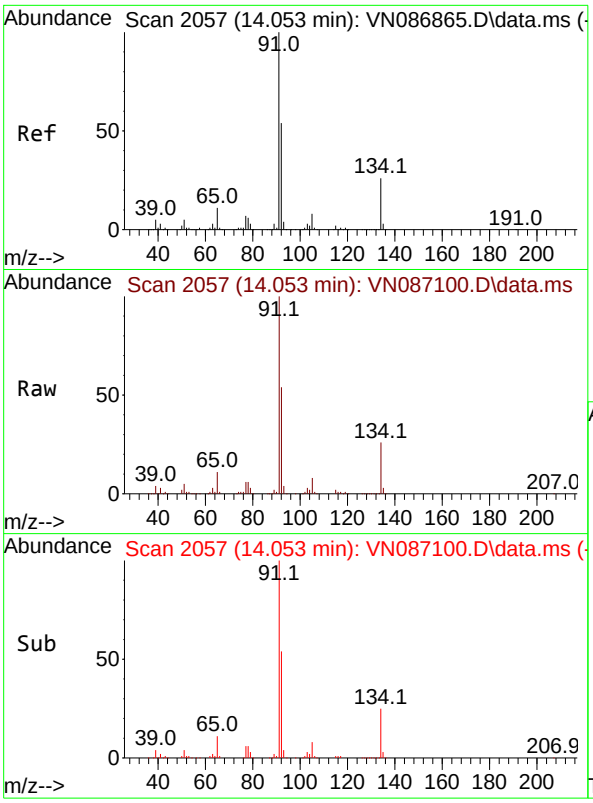


#88
1,4-Dichlorobenzene
Concen: 54.637 ug/l
RT: 13.811 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:146 Resp: 231597

Ion	Ratio	Lower	Upper
146	100		
111	39.8	19.9	59.7
148	63.9	31.8	95.4



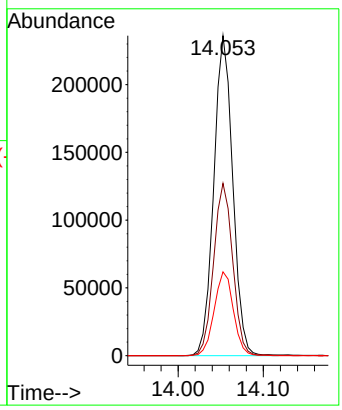


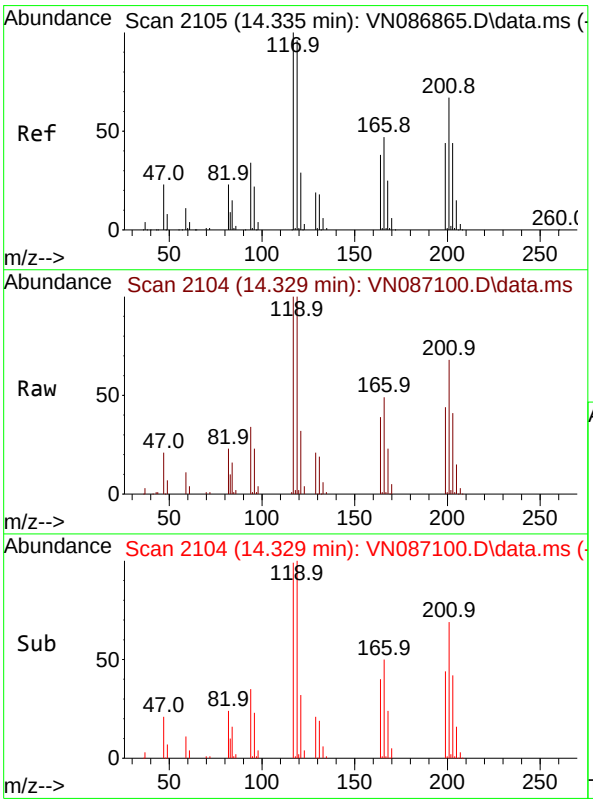
#89
n-Butylbenzene
Concen: 45.078 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 365013

Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.5	82.4
134	26.5	13.0	39.0

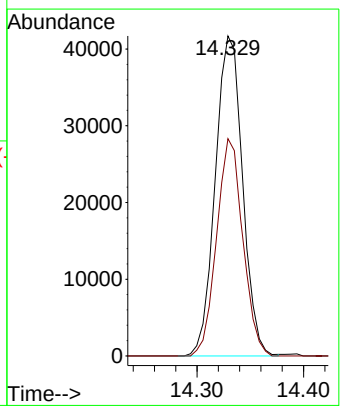


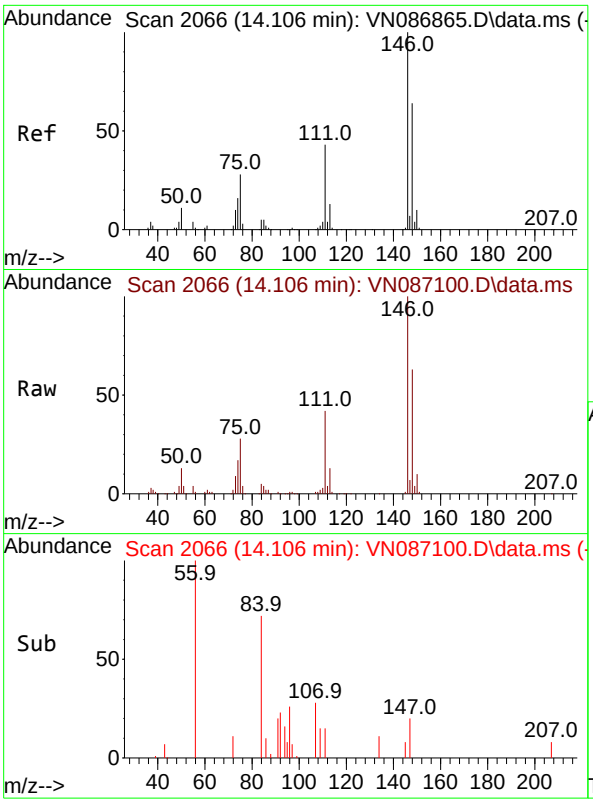


#90
Hexachloroethane
Concen: 52.332 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:117 Resp: 74155

Ion	Ratio	Lower	Upper
117	100		
201	65.2	33.2	99.6



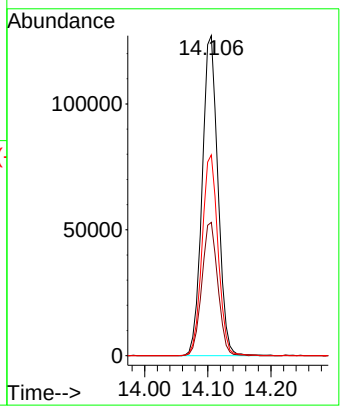


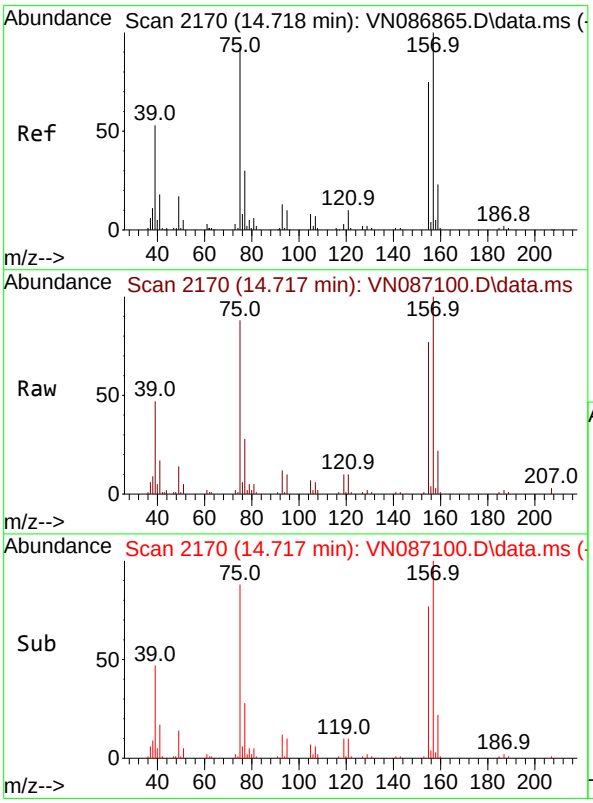
#91
1,2-Dichlorobenzene
Concen: 55.265 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 220753

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.6	64.6
148	63.5	31.7	95.1

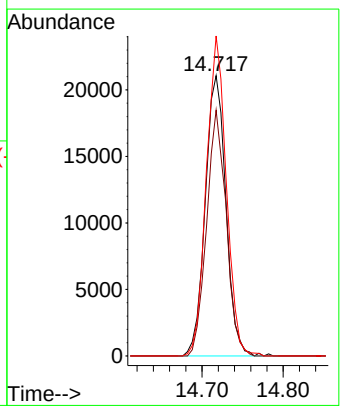


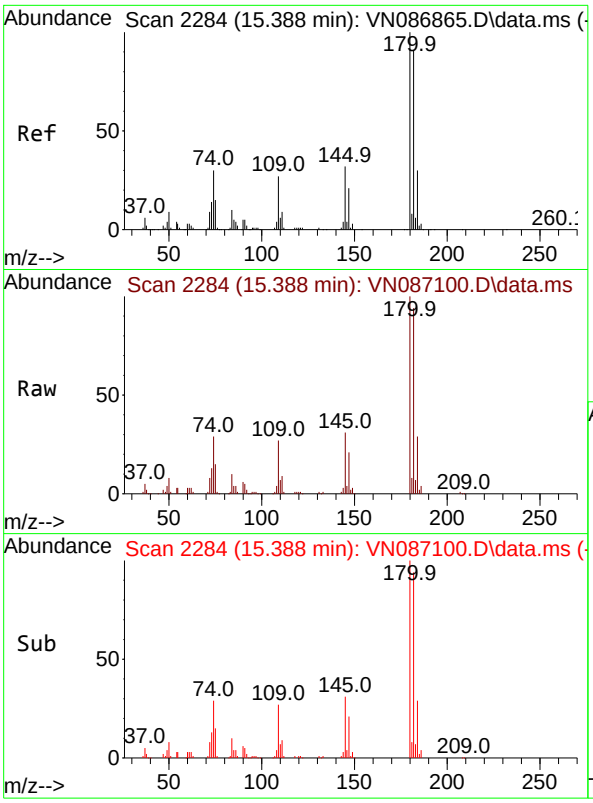


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.901 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion: 75 Resp: 37254

Ion	Ratio	Lower	Upper
75	100		
155	83.1	41.1	123.4
157	110.0	52.7	158.1



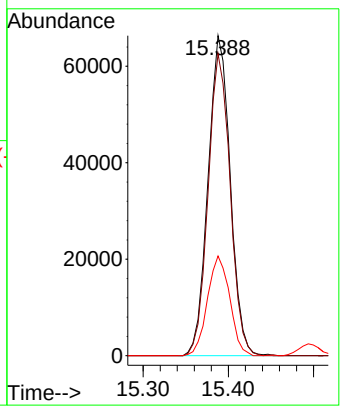


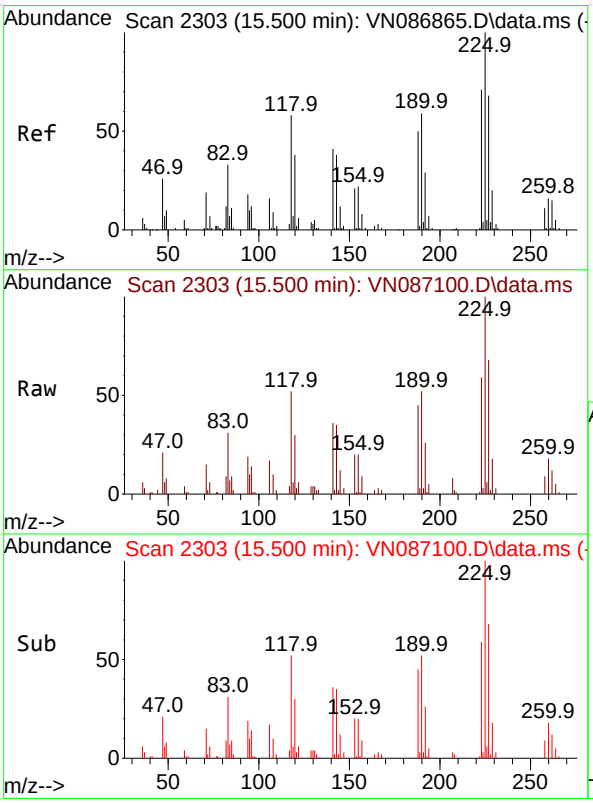
#93
1,2,4-Trichlorobenzene
Concen: 47.138 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:180 Resp: 120236

Ion	Ratio	Lower	Upper
180	100		
182	93.6	46.9	140.7
145	31.3	16.0	47.9

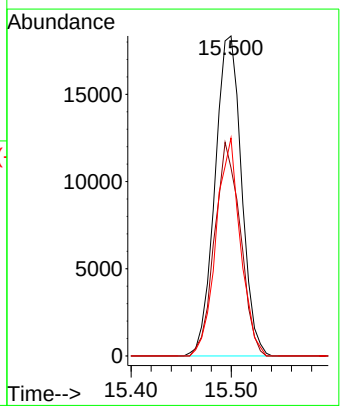


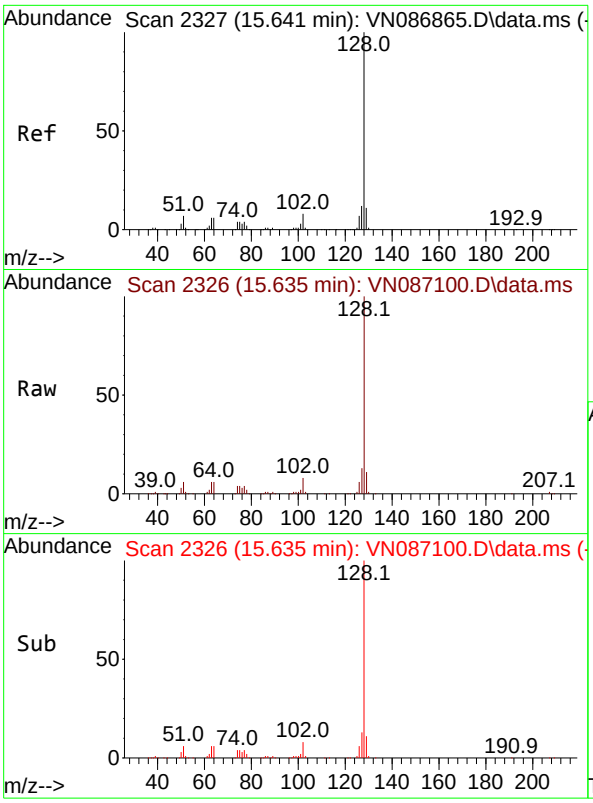


#94
Hexachlorobutadiene
Concen: 35.548 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:225 Resp: 33782

Ion	Ratio	Lower	Upper
225	100		
223	64.8	33.5	100.4
227	62.2	31.1	93.5



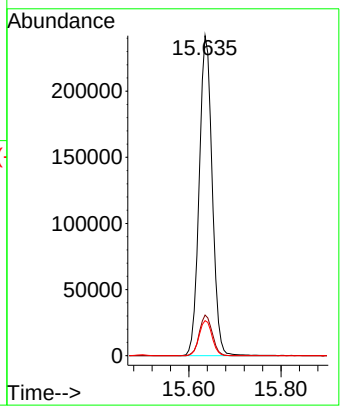


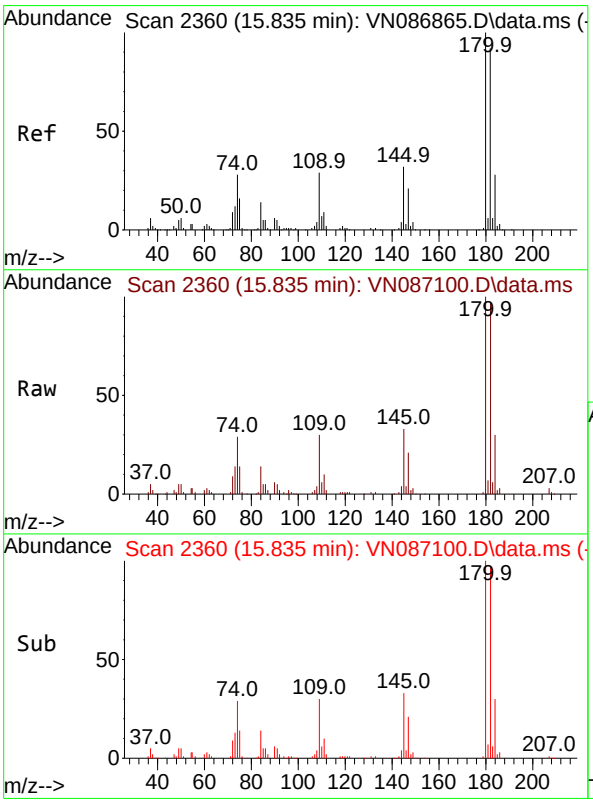
#95
Naphthalene
Concen: 50.063 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 475311

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	11.0	8.8	13.2

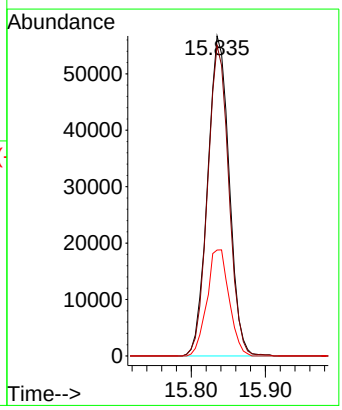




#96
1,2,3-Trichlorobenzene
Concen: 45.251 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087100.D
Acq: 19 Jun 2025 09:31

Tgt Ion:180 Resp: 114676

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.0	141.0
145	34.1	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087104.D
Acq On : 19 Jun 2025 12:22
Operator : JC\MD
Sample : VN0619WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Quant Time: Jun 20 01:21:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	168651	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	300634	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	265368	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132931	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	108975	48.261	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.520%			
35) Dibromofluoromethane	8.171	113	95048	53.349	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.700%			
50) Toluene-d8	10.565	98	352249	49.943	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.880%			
62) 4-Bromofluorobenzene	12.847	95	131878	50.328	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	33152	19.715	ug/l	99
3) Chloromethane	2.395	50	36144	16.645	ug/l	95
4) Vinyl Chloride	2.554	62	45733	20.417	ug/l	98
5) Bromomethane	3.001	94	24381	19.450	ug/l	97
6) Chloroethane	3.154	64	29734	20.551	ug/l	97
7) Trichlorofluoromethane	3.530	101	58381	19.949	ug/l	95
8) Diethyl Ether	3.983	74	23263	18.244	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.400	101	36694	19.957	ug/l	99
10) Methyl Iodide	4.612	142	25387	10.651	ug/l	94
11) Tert butyl alcohol	5.536	59	47889	78.161	ug/l	100
12) 1,1-Dichloroethene	4.365	96	36579	19.487	ug/l	89
13) Acrolein	4.200	56	14516	74.847	ug/l	99
14) Allyl chloride	5.042	41	53678	17.243	ug/l	97
15) Acrylonitrile	5.730	53	125605	87.707	ug/l	98
16) Acetone	4.448	43	106591	89.014	ug/l	96
17) Carbon Disulfide	4.742	76	106591	20.529	ug/l	99
18) Methyl Acetate	5.053	43	52756	15.118	ug/l	96
19) Methyl tert-butyl Ether	5.812	73	123313	18.143	ug/l	98
20) Methylene Chloride	5.300	84	41638	18.573	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	39921	19.115	ug/l	93
22) Diisopropyl ether	6.689	45	116762	17.793	ug/l	96
23) Vinyl Acetate	6.618	43	504210	90.941	ug/l	98
24) 1,1-Dichloroethane	6.589	63	72207	19.121	ug/l	99
25) 2-Butanone	7.489	43	158665	81.516	ug/l	99
26) 2,2-Dichloropropane	7.500	77	62735	21.356	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	47158	18.881	ug/l	99
28) Bromochloromethane	7.824	49	30970	16.679	ug/l	93
29) Tetrahydrofuran	7.847	42	104052	82.062	ug/l	97
30) Chloroform	7.977	83	71775	19.032	ug/l	99
31) Cyclohexane	8.265	56	64243	17.542	ug/l	96
32) 1,1,1-Trichloroethane	8.177	97	61007	19.019	ug/l	94
36) 1,1-Dichloropropene	8.377	75	52501	19.776	ug/l	98
37) Ethyl Acetate	7.571	43	60681	17.955	ug/l	100
38) Carbon Tetrachloride	8.365	117	51019	19.575	ug/l	99
39) Methylcyclohexane	9.606	83	59566	16.377	ug/l	96
40) Benzene	8.612	78	166491	19.178	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087104.D
Acq On : 19 Jun 2025 12:22
Operator : JC\MD
Sample : VN0619WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Quant Time: Jun 20 01:21:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.788	41	30797	16.226 ug/l	93
42) 1,2-Dichloroethane	8.677	62	49646	18.854 ug/l	100
43) Isopropyl Acetate	8.694	43	93856	17.303 ug/l	98
44) Trichloroethene	9.353	130	40989	19.912 ug/l	96
45) 1,2-Dichloropropane	9.624	63	41287	19.548 ug/l	96
46) Dibromomethane	9.712	93	28698	20.457 ug/l	98
47) Bromodichloromethane	9.888	83	55507	19.231 ug/l	98
48) Methyl methacrylate	9.682	41	40484	16.216 ug/l	95
49) 1,4-Dioxane	9.700	88	15863	349.264 ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	279386	85.559 ug/l	99
52) Toluene	10.629	92	103384	19.487 ug/l	99
53) t-1,3-Dichloropropene	10.835	75	61414	19.028 ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	68133	19.730 ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	40248	19.716 ug/l	99
56) Ethyl methacrylate	10.882	69	58604	18.024 ug/l	94
57) 1,3-Dichloropropane	11.165	76	68142	19.242 ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	170894	88.120 ug/l	99
59) 2-Hexanone	11.206	43	159103	75.642 ug/l	92
60) Dibromochloromethane	11.359	129	42423	19.946 ug/l	99
61) 1,2-Dibromoethane	11.471	107	40038	19.135 ug/l	99
64) Tetrachloroethene	11.106	164	31369	18.678 ug/l	97
65) Chlorobenzene	11.888	112	114996	19.648 ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	36384	19.339 ug/l	99
67) Ethyl Benzene	11.965	91	187103	18.559 ug/l	99
68) m/p-Xylenes	12.071	106	148640	38.516 ug/l	99
69) o-Xylene	12.394	106	69033	18.678 ug/l	100
70) Styrene	12.412	104	121336	19.185 ug/l	99
71) Bromoform	12.576	173	28191	20.223 ug/l #	98
73) Isopropylbenzene	12.694	105	175452	18.117 ug/l	100
74) N-amyl acetate	12.529	43	39597	11.701 ug/l #	70
75) 1,1,2,2-Tetrachloroethane	12.935	83	62799	19.142 ug/l	97
76) 1,2,3-Trichloropropane	12.994	75	83282	26.357 ug/l	70
77) Bromobenzene	12.976	156	43802	19.723 ug/l	95
78) n-propylbenzene	13.035	91	208663	17.730 ug/l	99
79) 2-Chlorotoluene	13.123	91	127425	18.054 ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	145386	18.184 ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	24382	17.762 ug/l #	89
82) 4-Chlorotoluene	13.218	91	131206	18.373 ug/l	99
83) tert-Butylbenzene	13.435	119	121825	16.646 ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	145127	18.101 ug/l	99
85) sec-Butylbenzene	13.618	105	174730	16.440 ug/l	100
86) p-Isopropyltoluene	13.729	119	144675	16.467 ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	84829	19.414 ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	85402	19.170 ug/l	97
89) n-Butylbenzene	14.053	91	128130	15.056 ug/l	99
90) Hexachloroethane	14.335	117	26285	17.650 ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	79570	18.954 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	13393	17.070 ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	42786	15.961 ug/l	100
94) Hexachlorobutadiene	15.500	225	13103	13.119 ug/l	98
95) Naphthalene	15.635	128	163318	16.368 ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	40941	15.372 ug/l	100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087104.D
Acq On : 19 Jun 2025 12:22
Operator : JC\MD
Sample : VN0619WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Quant Time: Jun 20 01:21:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

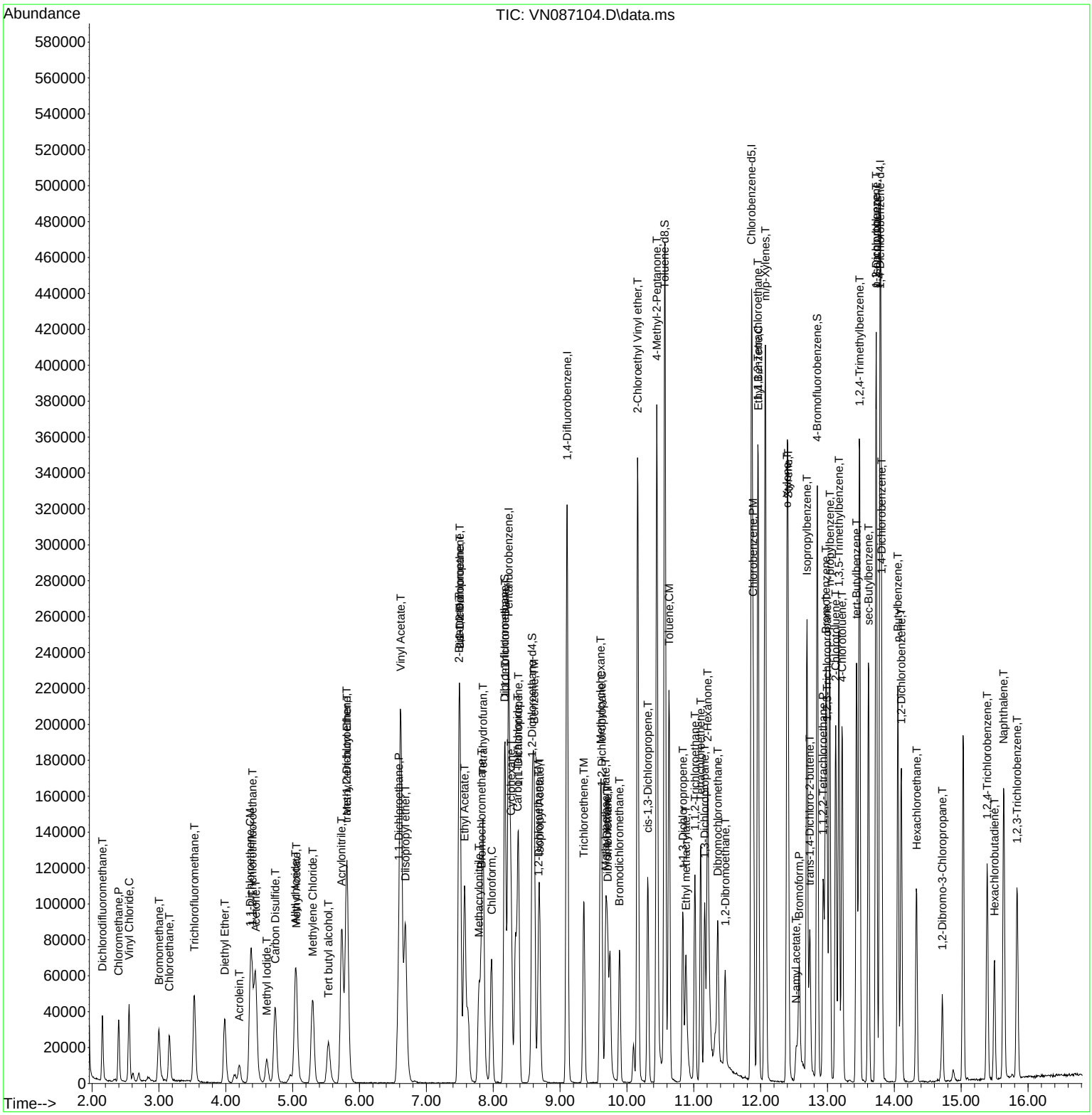
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

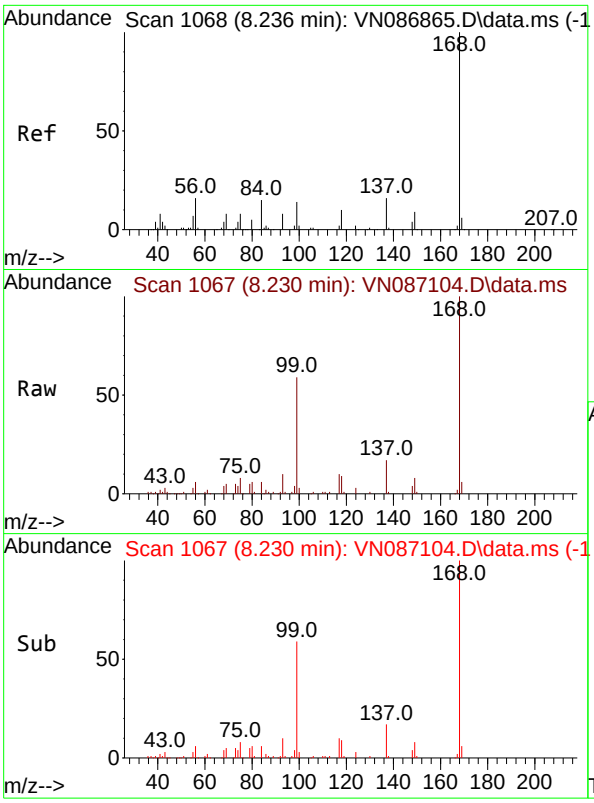
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087104.D
Acq On : 19 Jun 2025 12:22
Operator : JC\MD
Sample : VN0619WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Quant Time: Jun 20 01:21:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



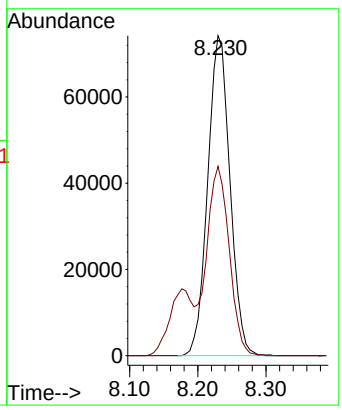


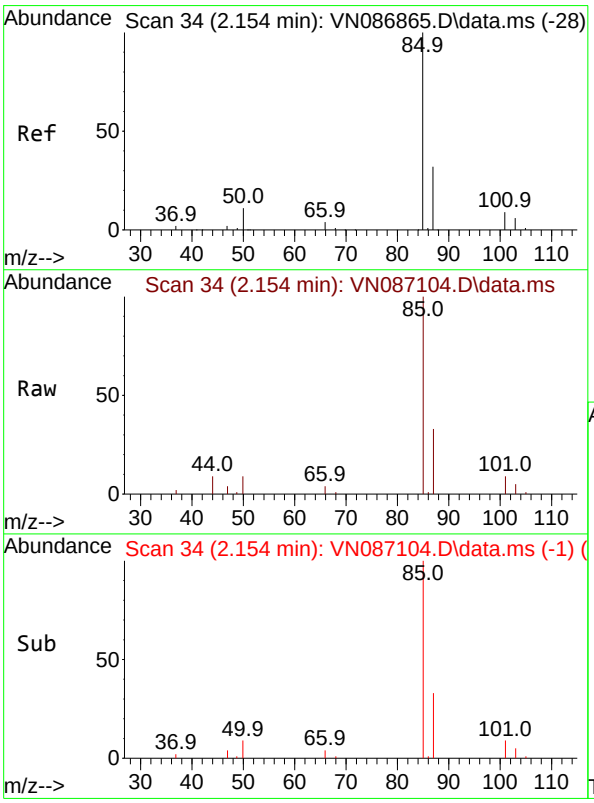
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:168 Resp: 168651

Ion	Ratio	Lower	Upper
168	100		
99	59.2	49.1	73.7

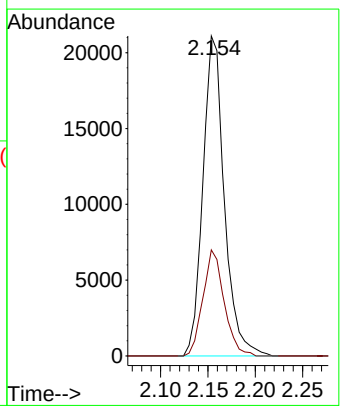


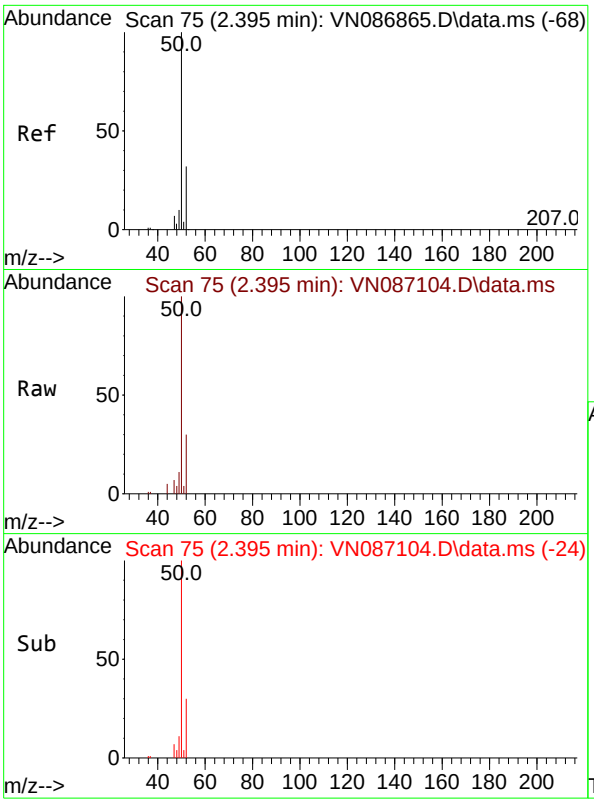


#2
Dichlorodifluoromethane
Concen: 19.715 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 85 Resp: 33152

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.2	48.6



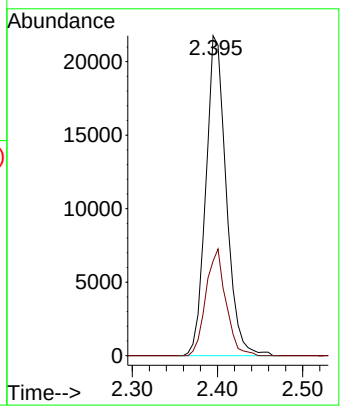


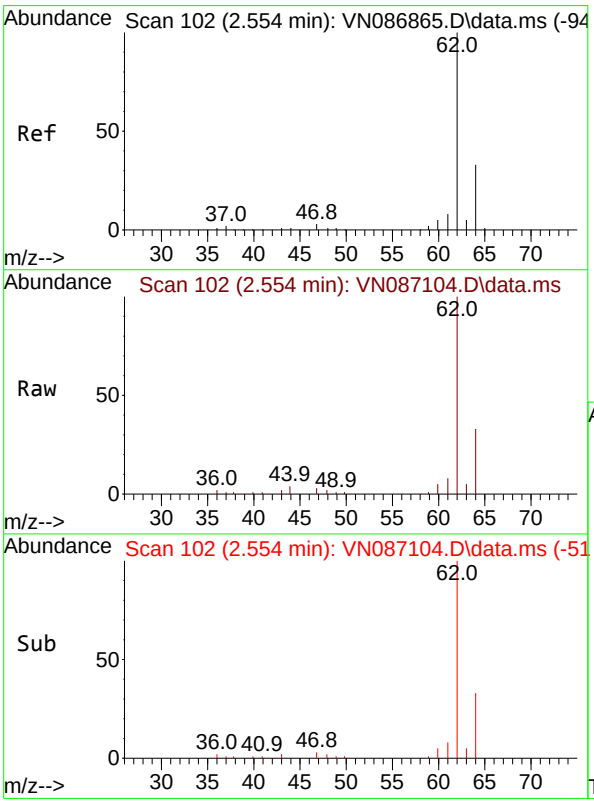
#3
Chloromethane
Concen: 16.645 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 50 Resp: 36144

Ion	Ratio	Lower	Upper
50	100		
52	29.5	25.7	38.5

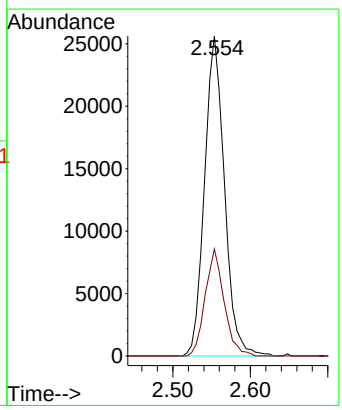


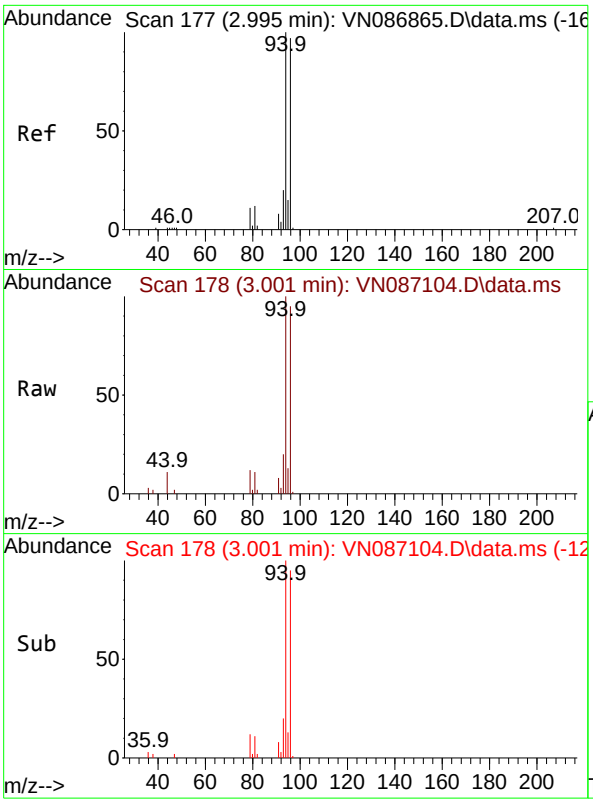


#4
Vinyl Chloride
Concen: 20.417 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 62 Resp: 45733

Ion	Ratio	Lower	Upper
62	100		
64	33.4	26.0	39.0



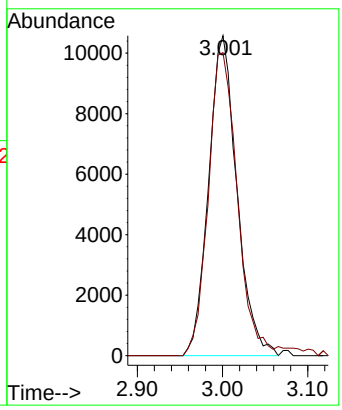


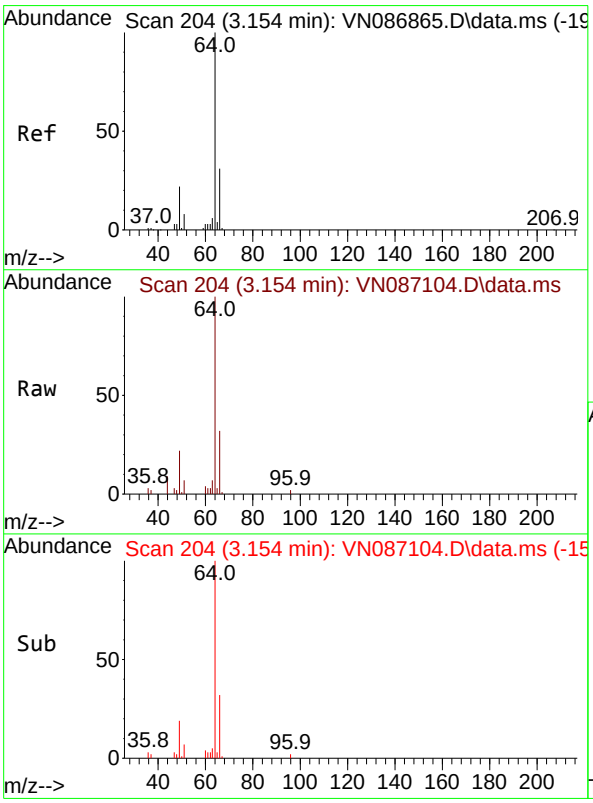
#5
Bromomethane
Concen: 19.450 ug/l
RT: 3.001 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 94 Resp: 24381

Ion	Ratio	Lower	Upper
94	100		
96	94.7	77.9	116.9

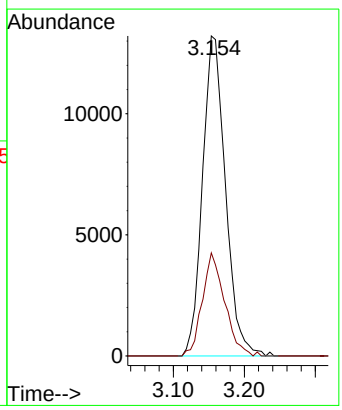


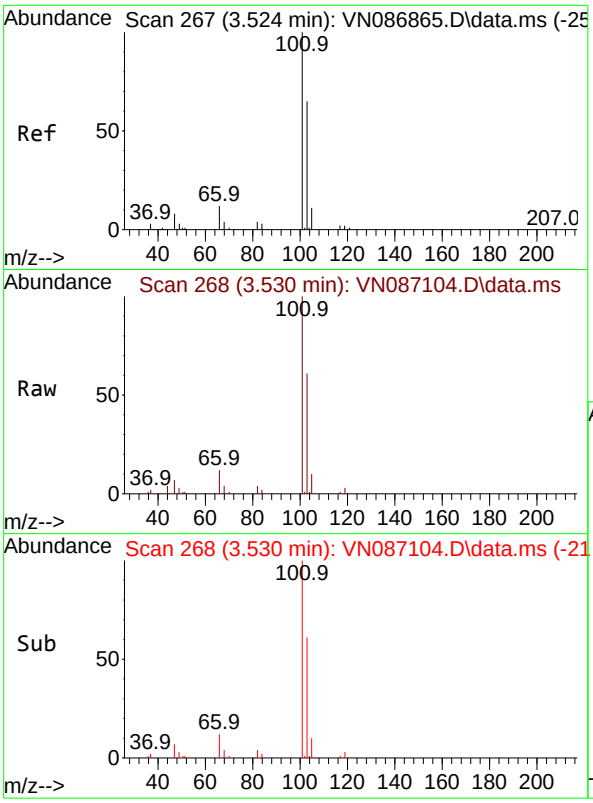


#6
Chloroethane
Concen: 20.551 ug/l
RT: 3.154 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 64 Resp: 29734

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.6	36.8



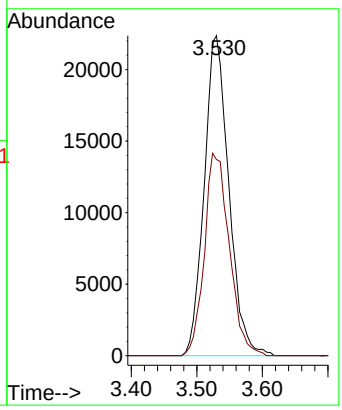


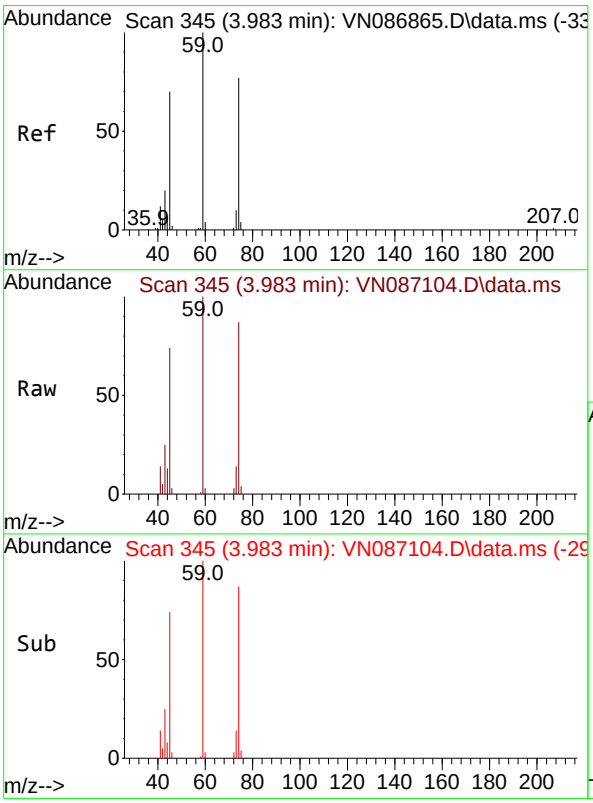
#7
Trichlorofluoromethane
Concen: 19.949 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:101 Resp: 58381

Ion	Ratio	Lower	Upper
101	100		
103	61.3	52.2	78.2

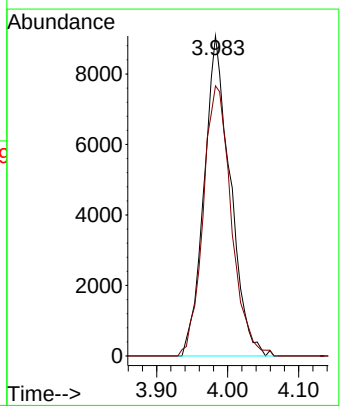


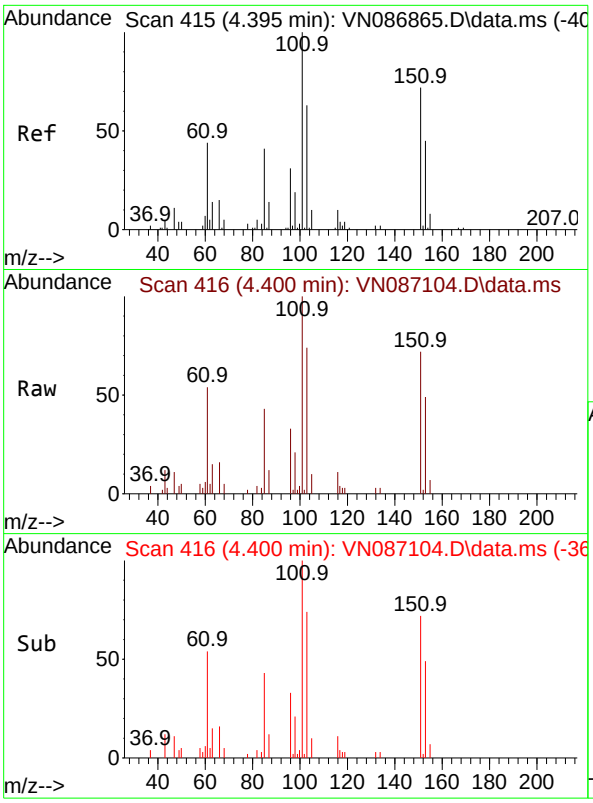


#8
Diethyl Ether
Concen: 18.244 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 74 Resp: 23263

Ion	Ratio	Lower	Upper
74	100		
45	90.6	45.5	136.5



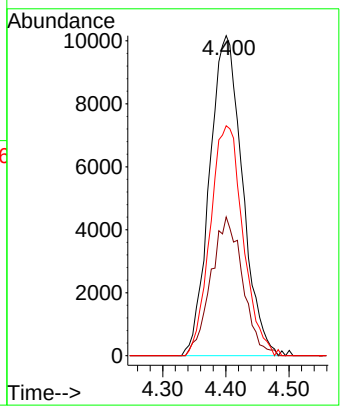


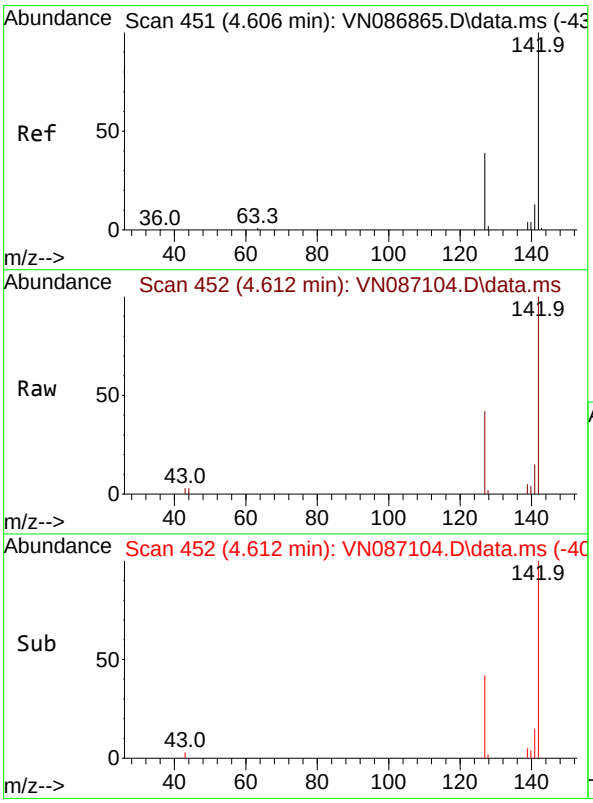
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.957 ug/l
RT: 4.400 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:101 Resp: 36694

Ion	Ratio	Lower	Upper
101	100		
85	42.0	33.8	50.8
151	71.7	58.7	88.1

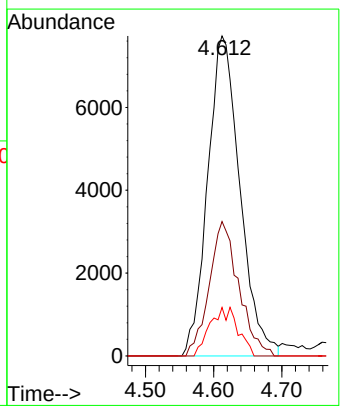


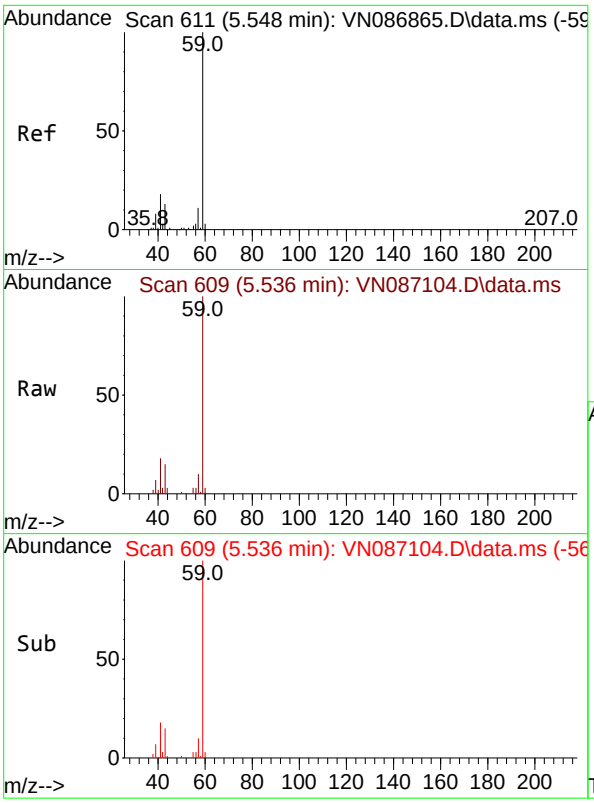


#10
Methyl Iodide
Concen: 10.651 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:142 Resp: 25387

Ion	Ratio	Lower	Upper
142	100		
127	42.0	30.9	46.3
141	15.1	10.4	15.6



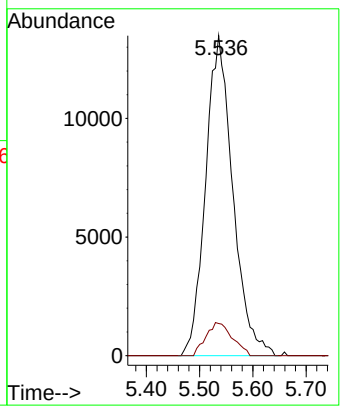


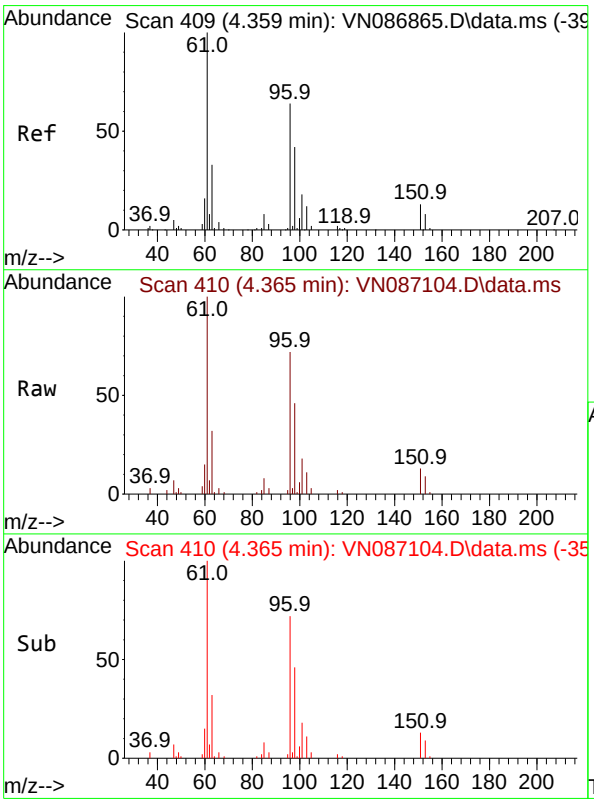
#11
Tert butyl alcohol
Concen: 78.161 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 59 Resp: 47889

Ion	Ratio	Lower	Upper
59	100		
57	10.0	8.1	12.1

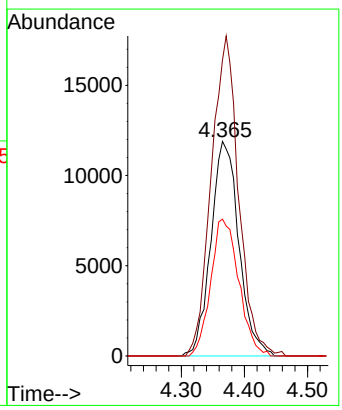


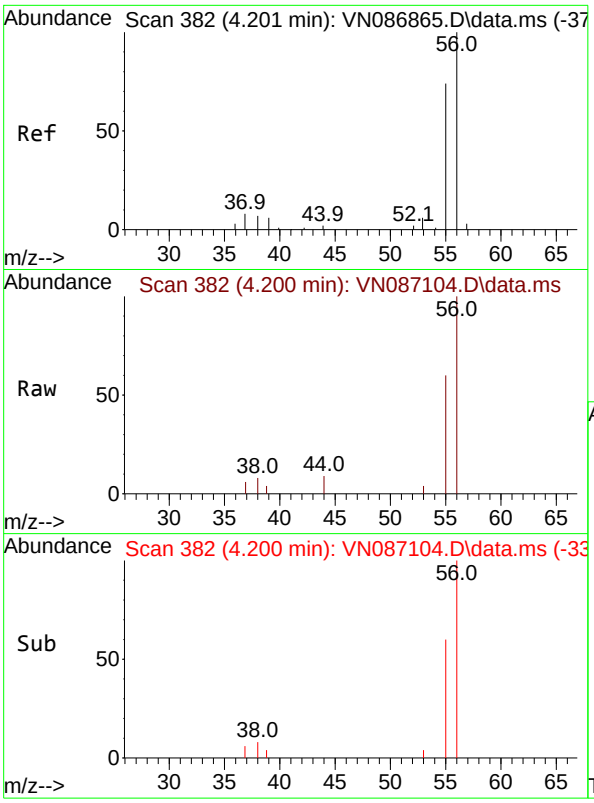


#12
1,1-Dichloroethene
Concen: 19.487 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 96 Resp: 36579

Ion	Ratio	Lower	Upper
96	100		
61	138.1	125.8	188.6
98	63.8	52.5	78.7



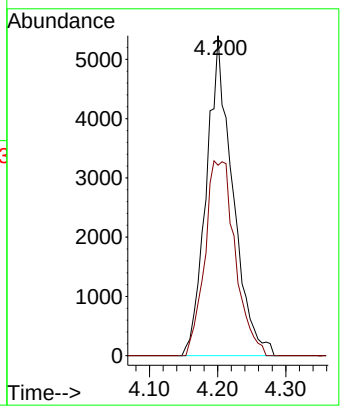


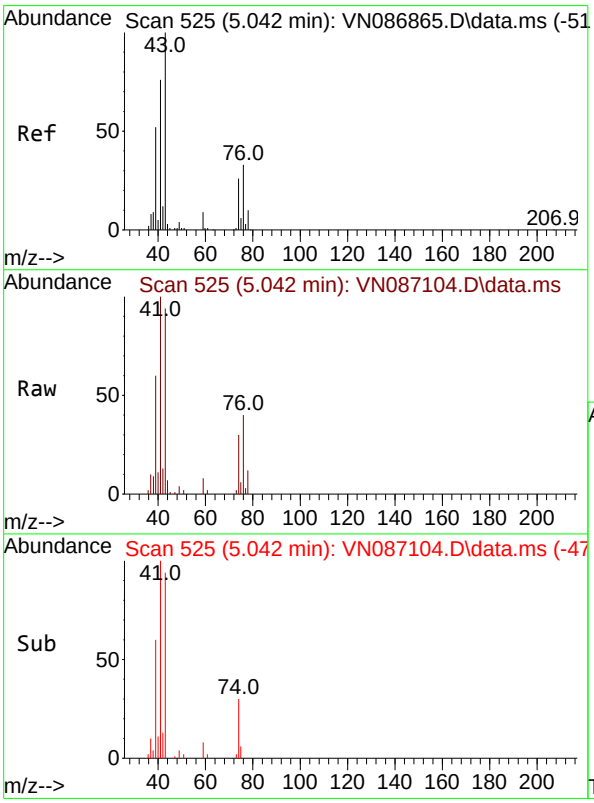
#13
Acrolein
Concen: 74.847 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 56 Resp: 14516

Ion	Ratio	Lower	Upper
56	100		
55	70.0	55.6	83.4

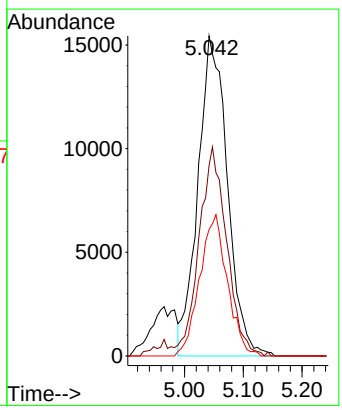


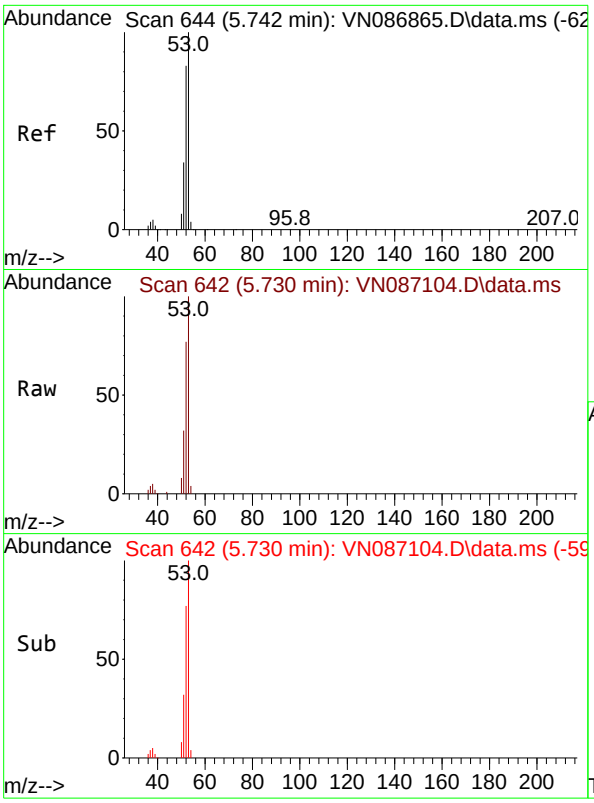


#14
Allyl chloride
Concen: 17.243 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 41 Resp: 53678

Ion	Ratio	Lower	Upper
41	100		
39	61.5	51.3	76.9
76	41.5	31.4	47.0



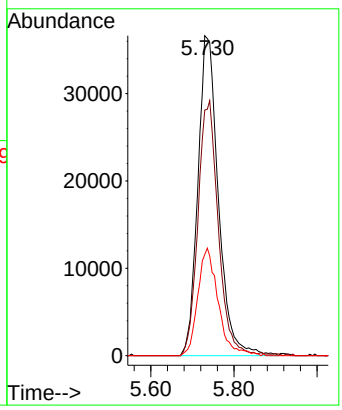


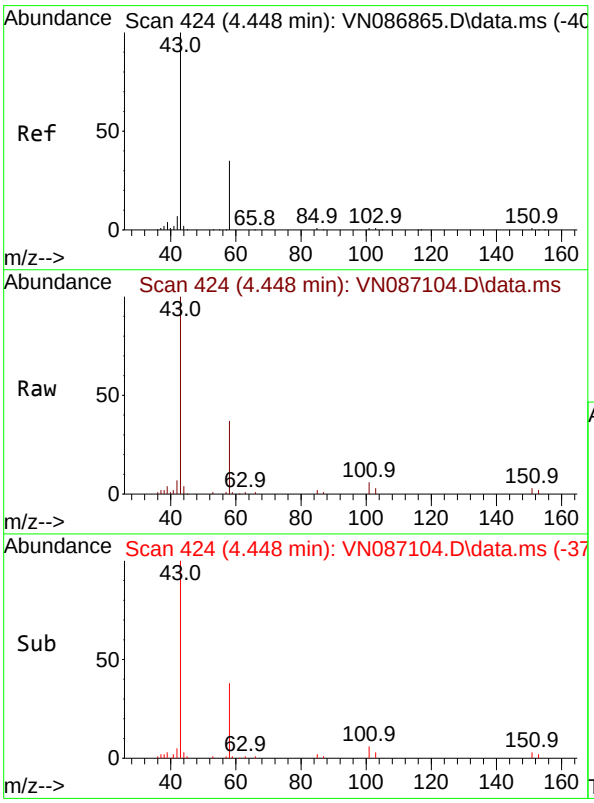
#15
Acrylonitrile
Concen: 87.707 ug/l
RT: 5.730 min Scan# 64
Delta R.T. -0.012 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 53 Resp: 125605

Ion	Ratio	Lower	Upper
53	100		
52	78.7	65.0	97.6
51	33.4	27.2	40.8

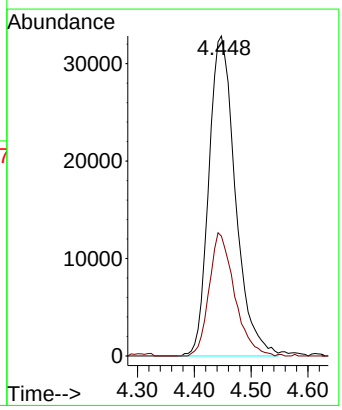


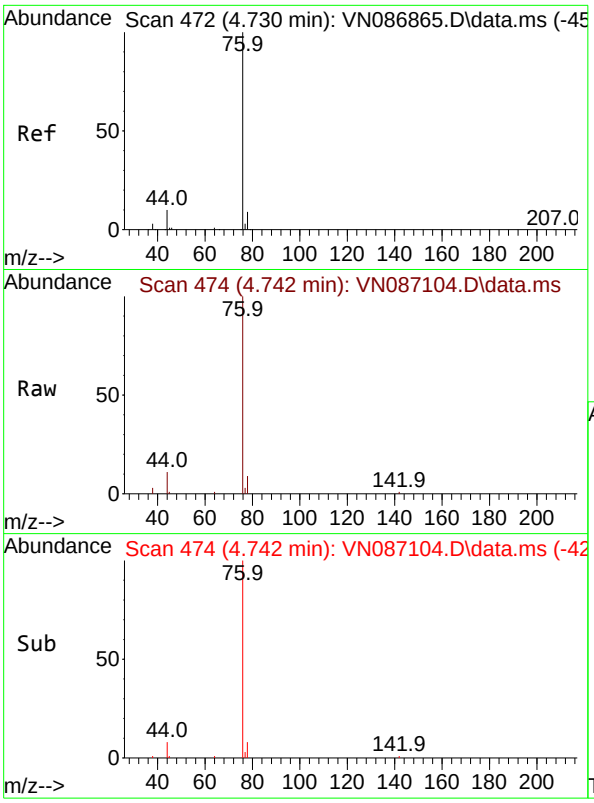


#16
Acetone
Concen: 89.014 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 43 Resp: 106591

Ion	Ratio	Lower	Upper
43	100		
58	37.5	28.0	42.0



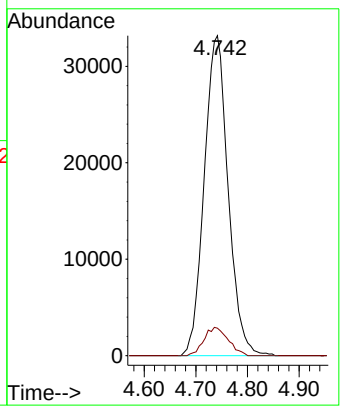


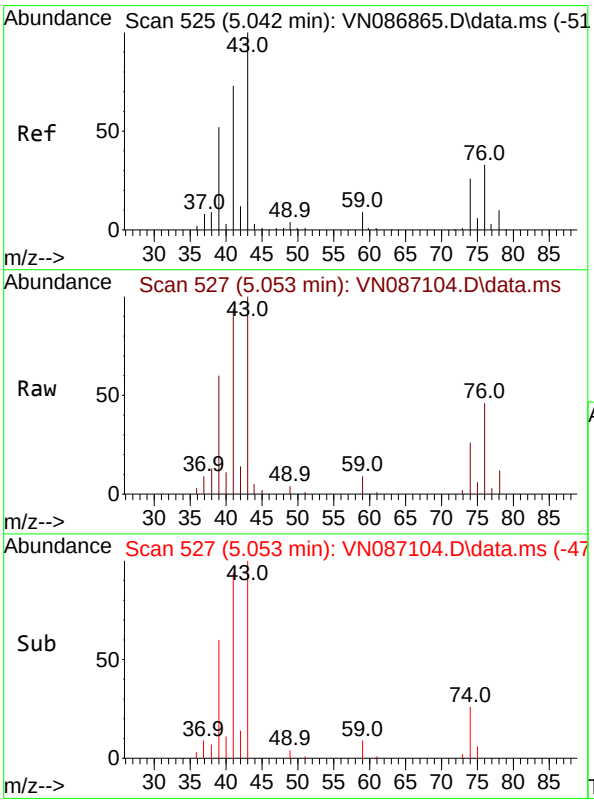
#17
Carbon Disulfide
Concen: 20.529 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 76 Resp: 106591

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.3	10.9

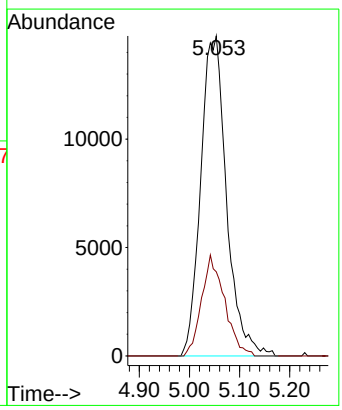


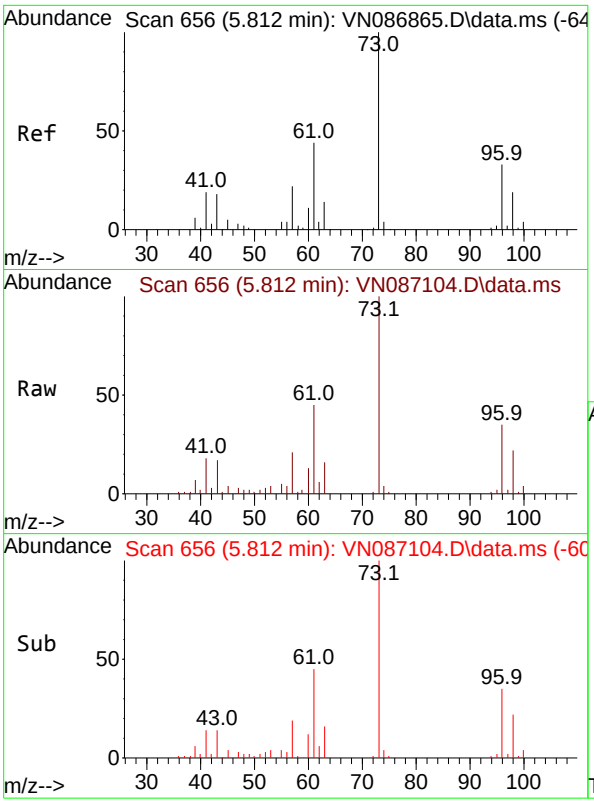


#18
Methyl Acetate
Concen: 15.118 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.012 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 43 Resp: 52756

Ion	Ratio	Lower	Upper
43	100		
74	28.2	20.7	31.1



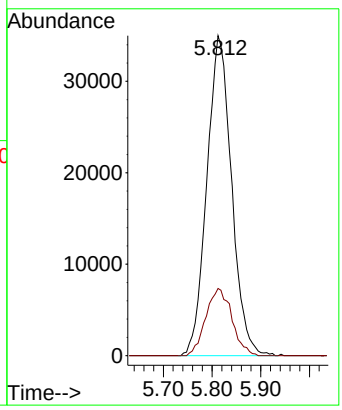


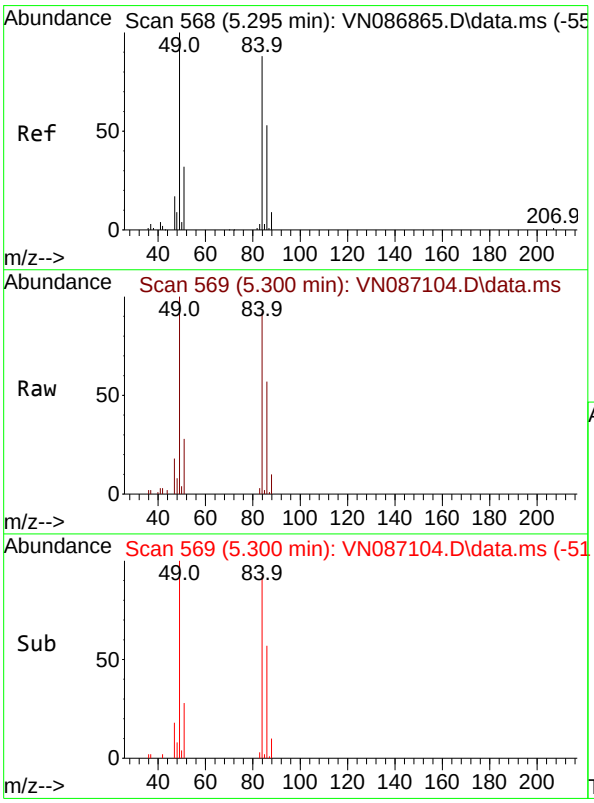
#19
Methyl tert-butyl Ether
Concen: 18.143 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 73 Resp: 123313

Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.2

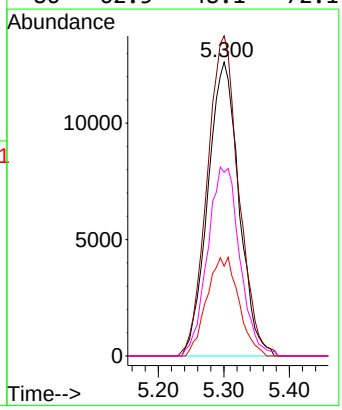


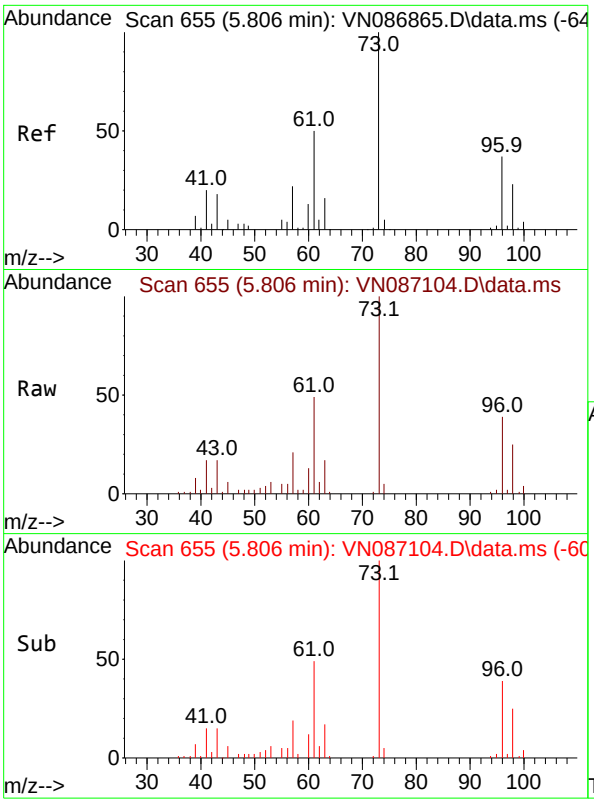


#20
Methylene Chloride
Concen: 18.573 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 84 Resp: 41638

Ion	Ratio	Lower	Upper
84	100		
49	109.0	90.5	135.7
51	30.5	28.5	42.7
86	62.5	48.1	72.1



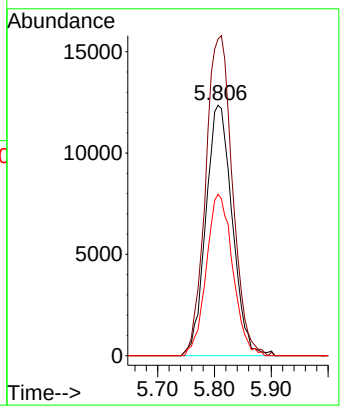


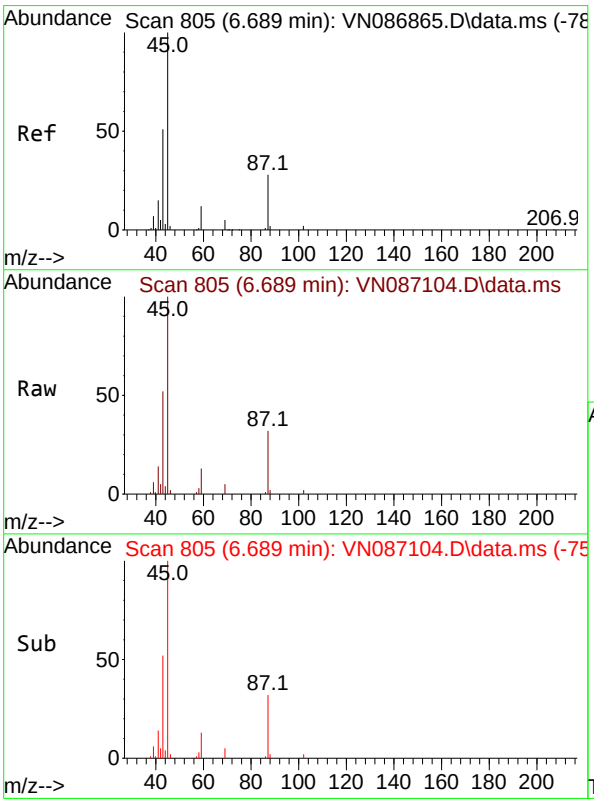
#21
trans-1,2-Dichloroethene
Concen: 19.115 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 96 Resp: 39921

Ion	Ratio	Lower	Upper
96	100		
61	126.4	109.2	163.8
98	64.5	49.8	74.8

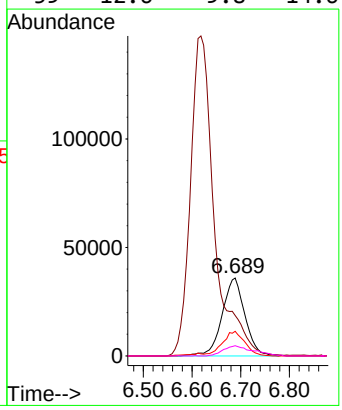


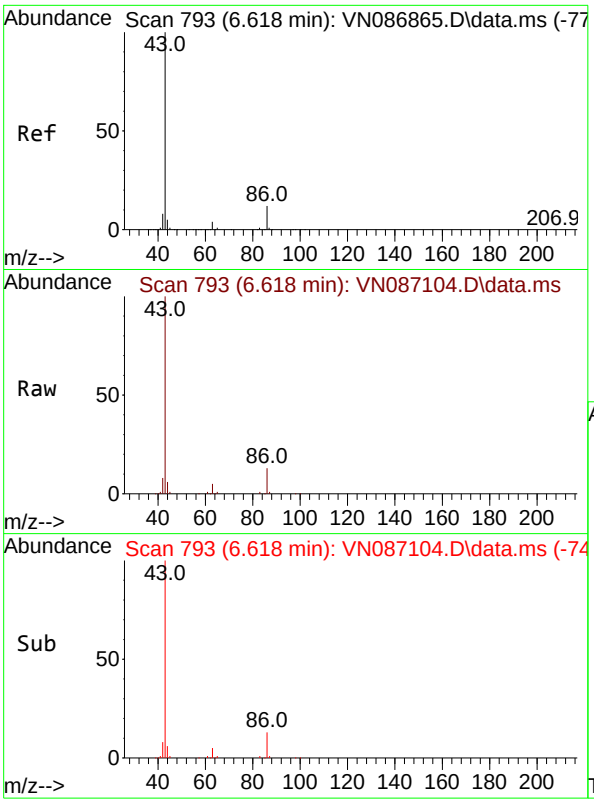


#22
Diisopropyl ether
Concen: 17.793 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 45 Resp: 116762

Ion	Ratio	Lower	Upper
45	100		
43	50.6	41.9	62.9
87	31.7	22.4	33.6
59	12.6	9.8	14.6



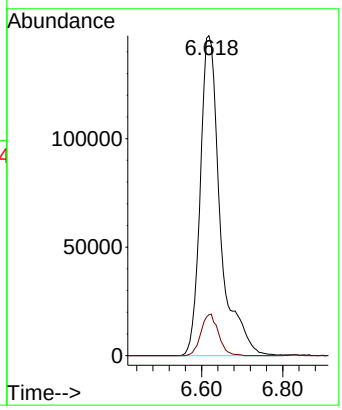


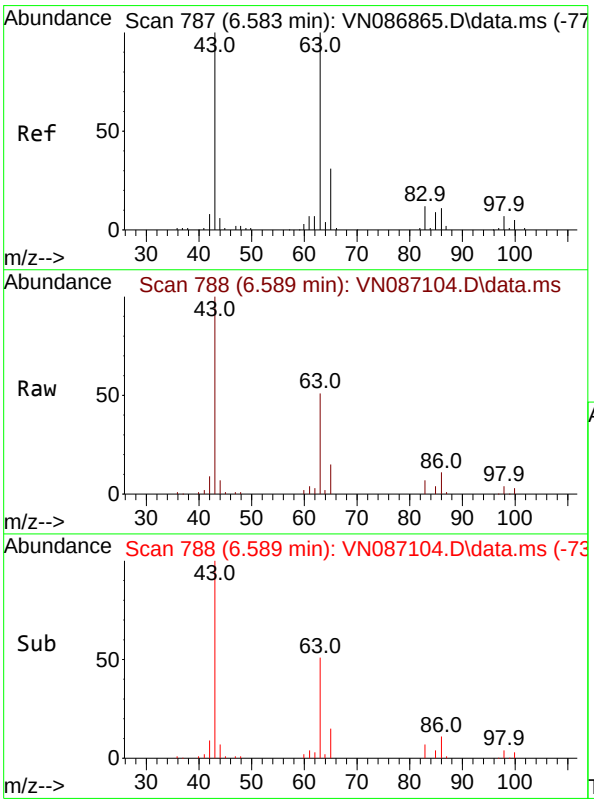
#23
Vinyl Acetate
Concen: 90.941 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 43 Resp: 504210

Ion	Ratio	Lower	Upper
43	100		
86	12.8	9.5	14.3

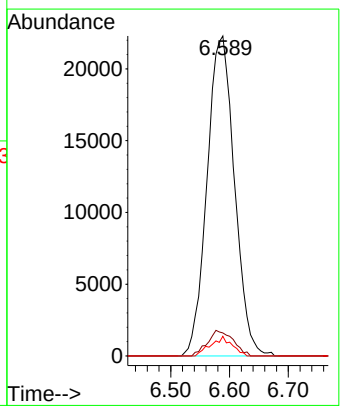


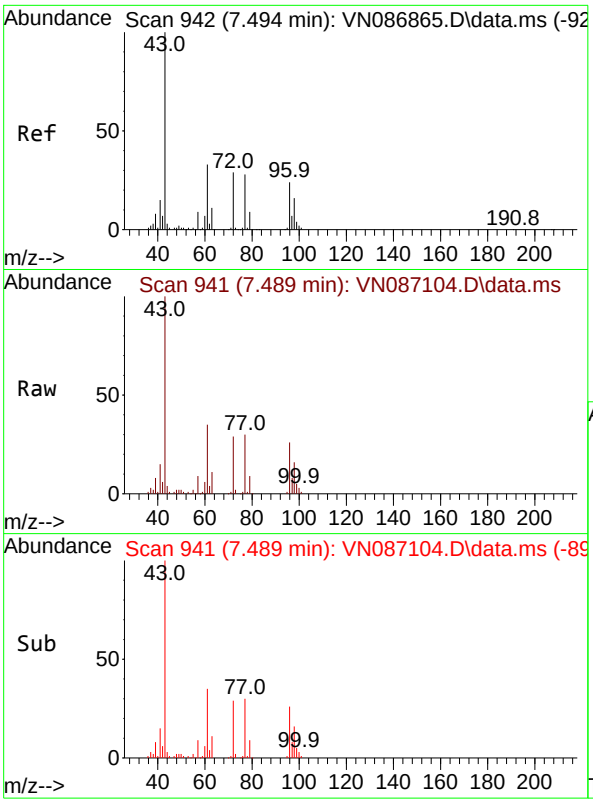


#24
1,1-Dichloroethane
Concen: 19.121 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 63 Resp: 72207

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.6	10.8
100	6.2	2.6	7.8



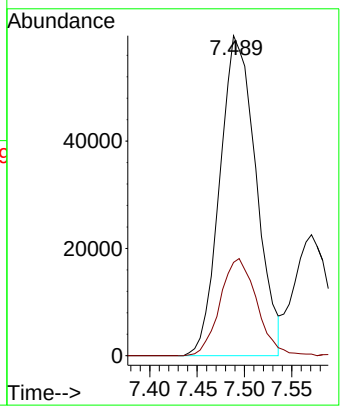


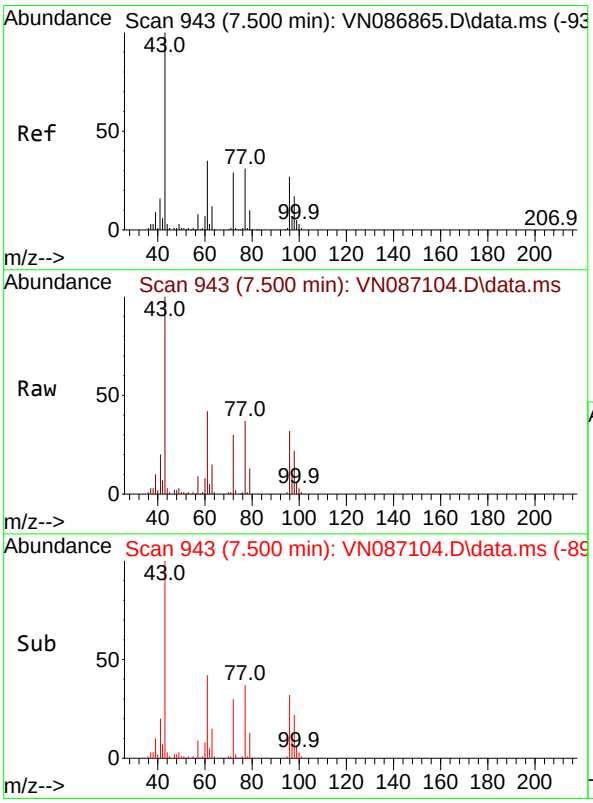
#25
2-Butanone
Concen: 81.516 ug/l
RT: 7.489 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 43 Resp: 158665

Ion	Ratio	Lower	Upper
43	100		
72	29.1	23.0	34.6

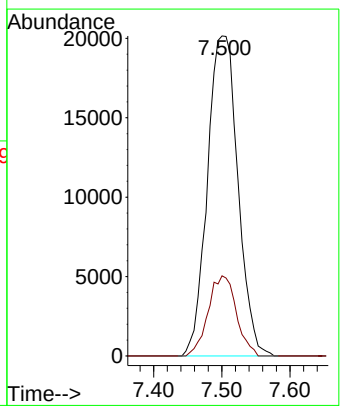


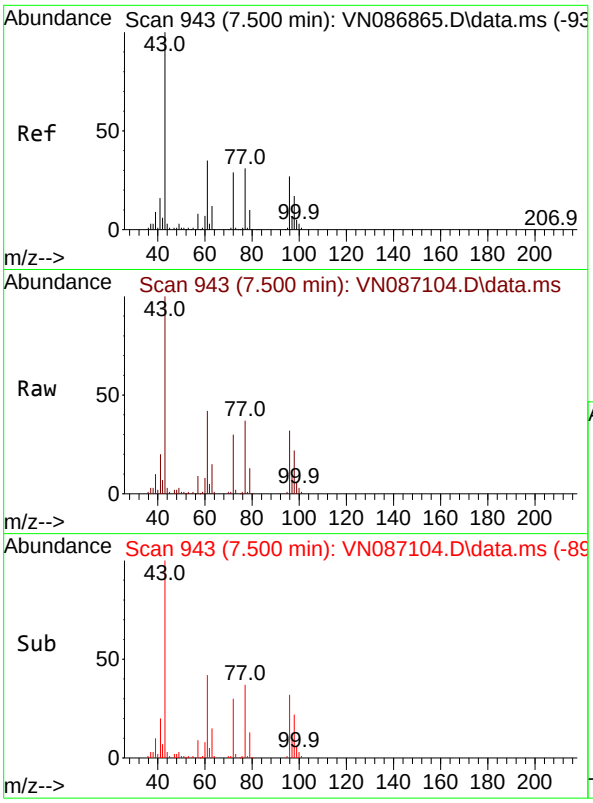


#26
2,2-Dichloropropane
Concen: 21.356 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 77 Resp: 62735

Ion	Ratio	Lower	Upper
77	100		
97	23.1	11.6	34.7



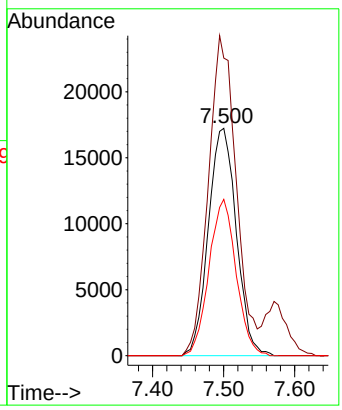


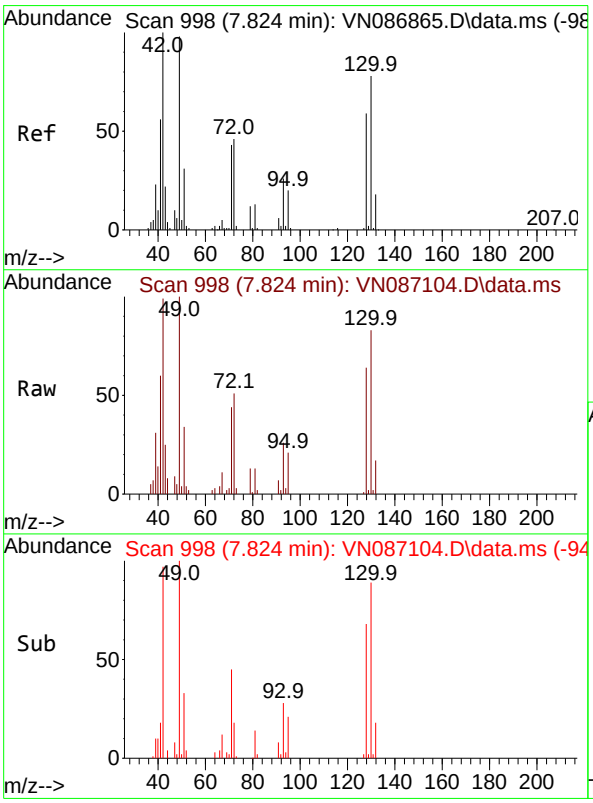
#27
cis-1,2-Dichloroethene
Concen: 18.881 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 96 Resp: 47158

Ion	Ratio	Lower	Upper
96	100		
61	139.6	0.0	278.0
98	66.6	0.0	128.2

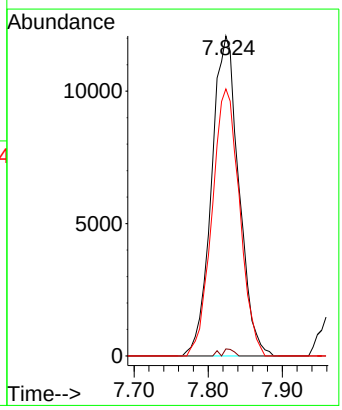


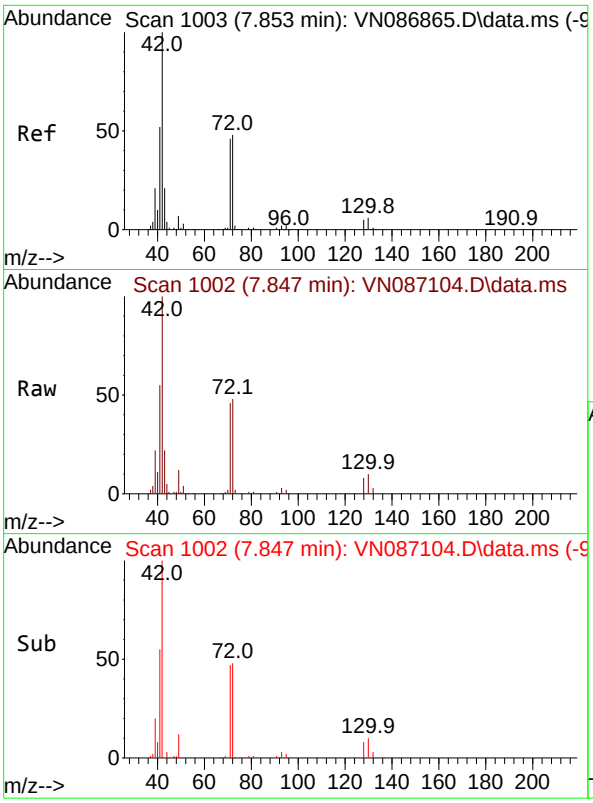


#28
Bromochloromethane
Concen: 16.679 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 49 Resp: 30970

Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	3.8
130	83.9	62.2	93.2



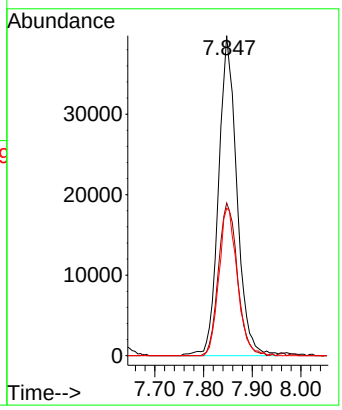


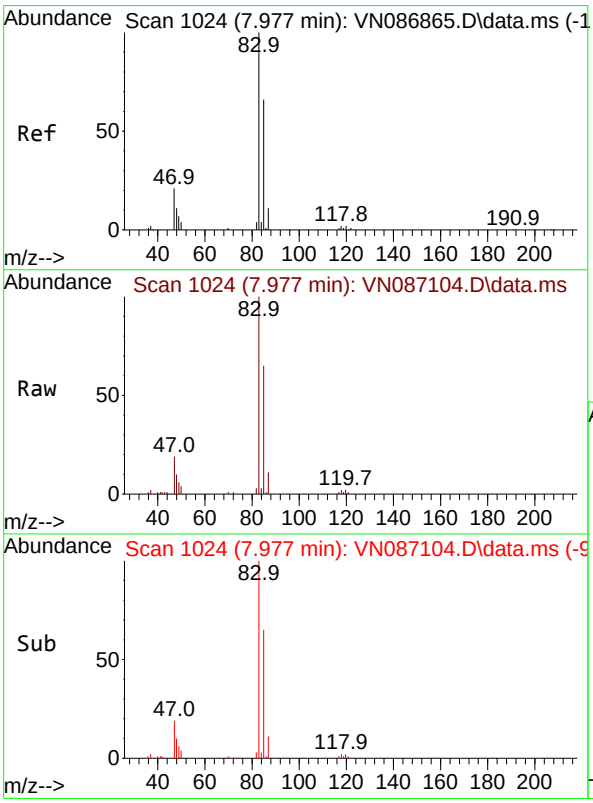
#29
Tetrahydrofuran
Concen: 82.062 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 42 Resp: 104052

Ion	Ratio	Lower	Upper
42	100		
72	49.3	37.8	56.6
71	46.3	35.6	53.4

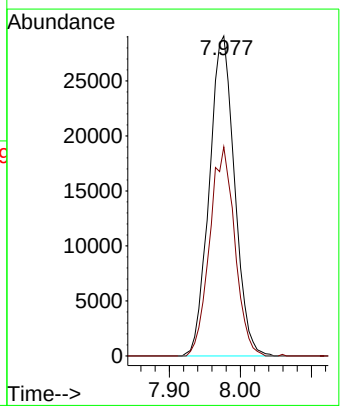


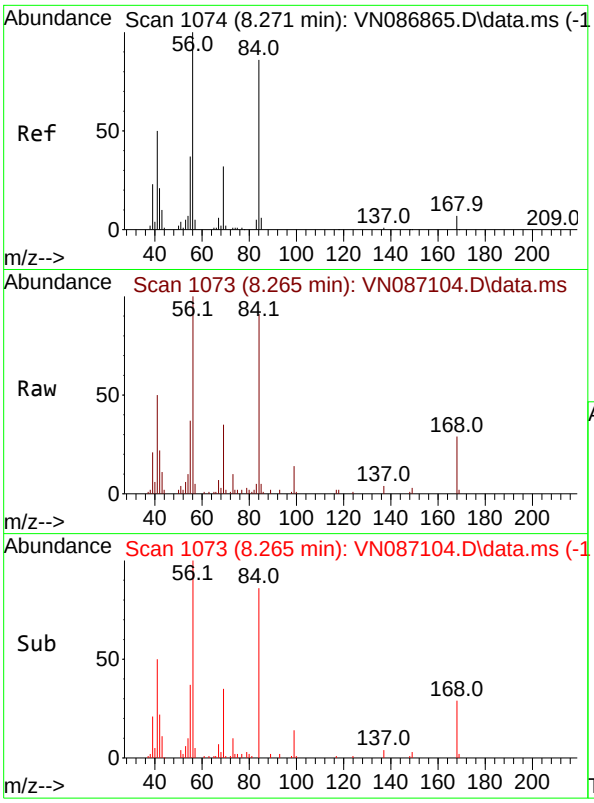


#30
Chloroform
Concen: 19.032 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 83 Resp: 71775

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.9	79.3



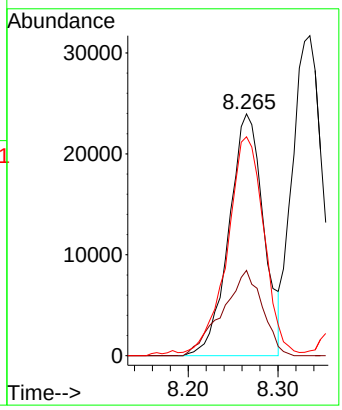


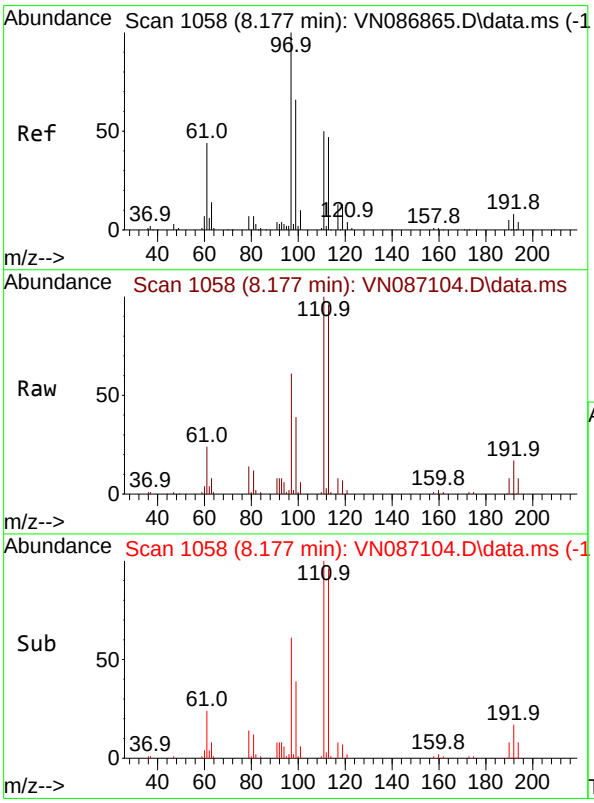
#31
Cyclohexane
Concen: 17.542 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 56 Resp: 64243

Ion	Ratio	Lower	Upper
56	100		
69	35.3	25.4	38.0
84	89.3	68.8	103.2

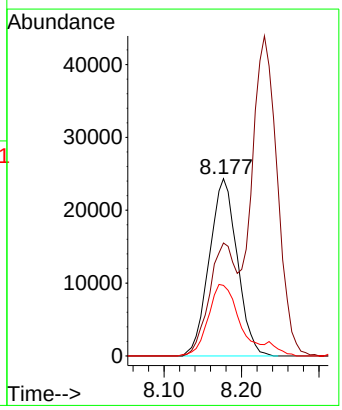


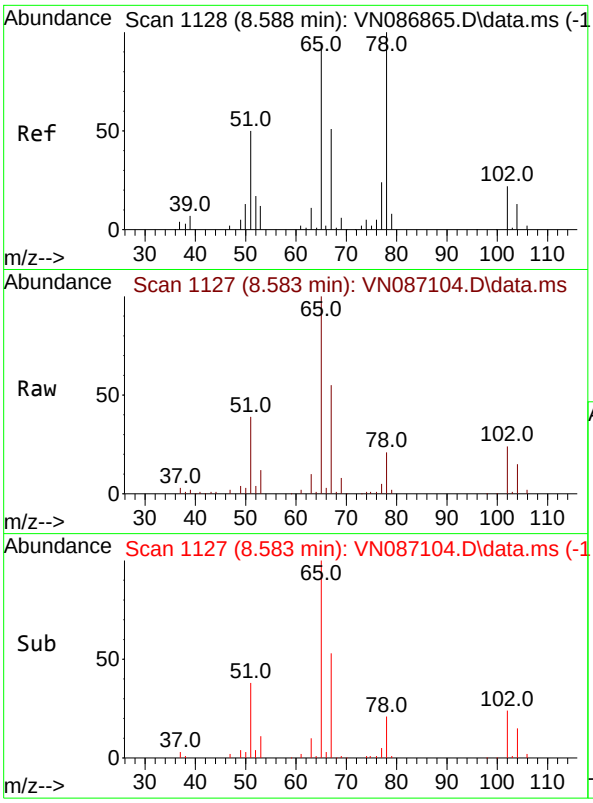


#32
1,1,1-Trichloroethane
Concen: 19.019 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 97 Resp: 61007

Ion	Ratio	Lower	Upper
97	100		
99	59.3	52.0	78.0
61	48.3	35.9	53.9



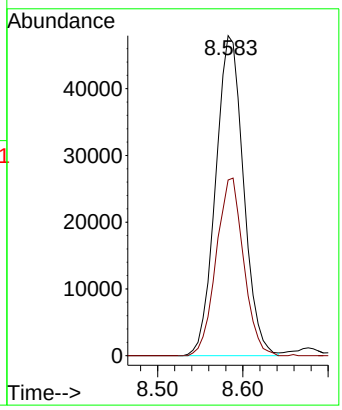


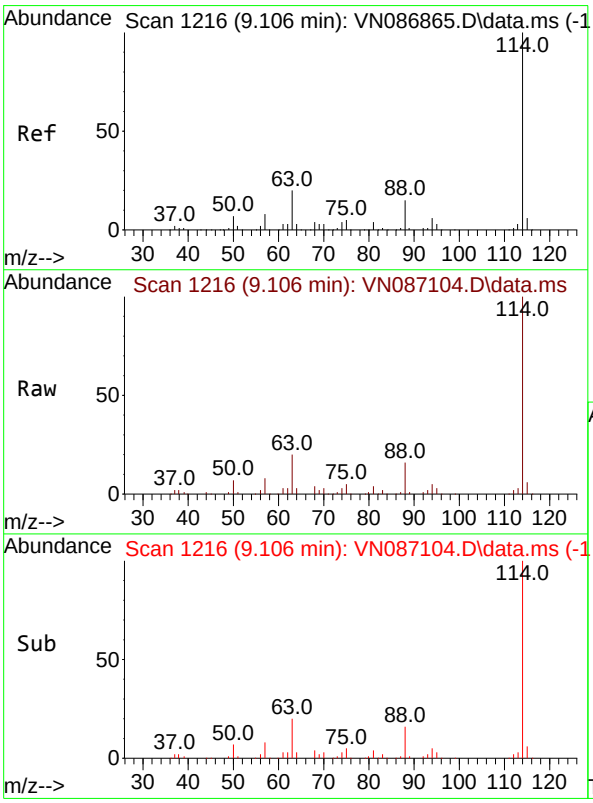
#33
1,2-Dichloroethane-d4
Concen: 48.261 ug/l
RT: 8.583 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 65 Resp: 108975

Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	105.6

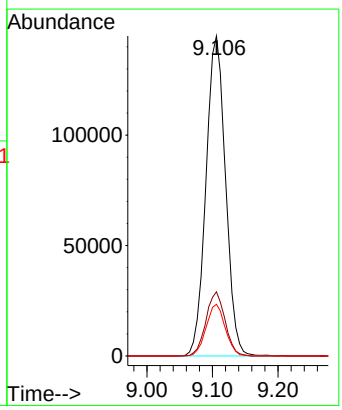


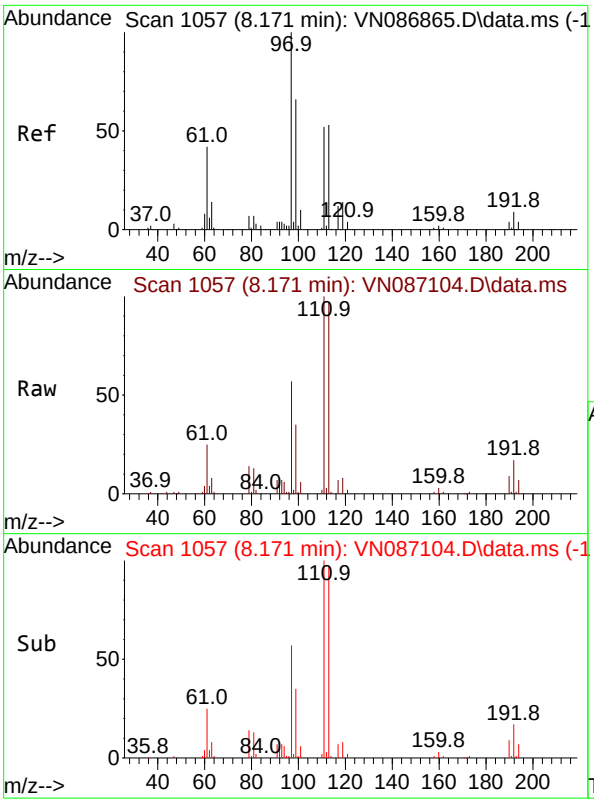


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:114 Resp: 300634

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.6
88	16.2	0.0	30.2



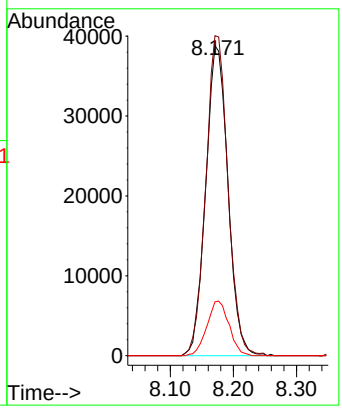


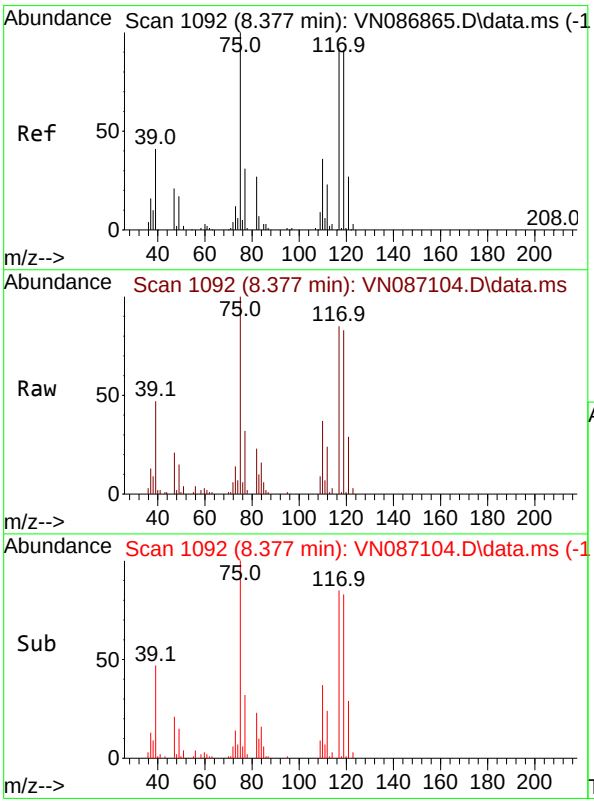
#35
Dibromofluoromethane
Concen: 53.349 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:113 Resp: 95048

Ion	Ratio	Lower	Upper
113	100		
111	102.6	84.2	126.2
192	17.5	14.2	21.4

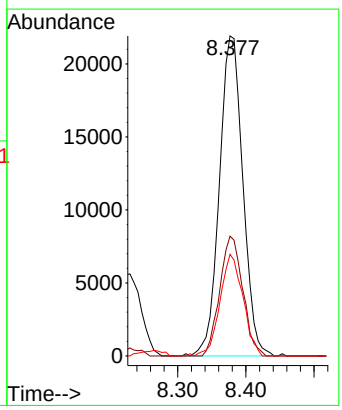


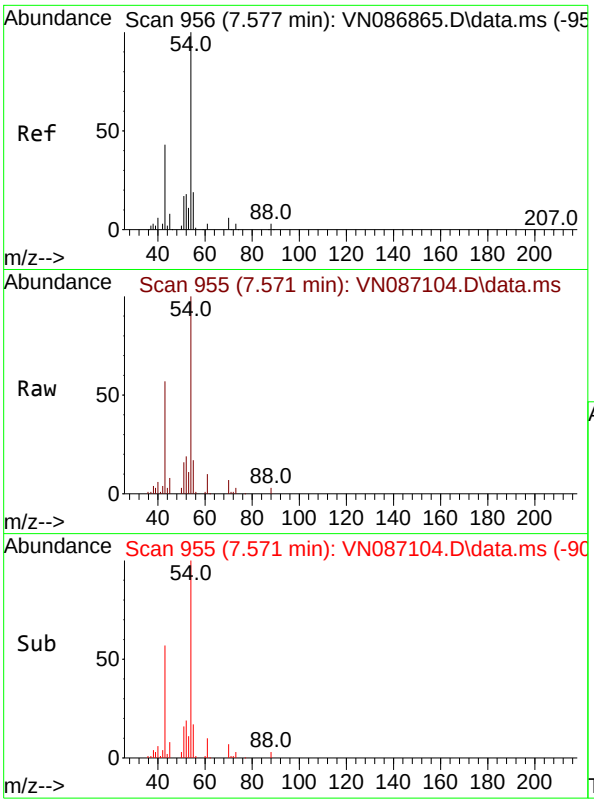


#36
1,1-Dichloropropene
Concen: 19.776 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 75 Resp: 52501

Ion	Ratio	Lower	Upper
75	100		
110	36.6	17.6	52.9
77	31.0	25.3	37.9



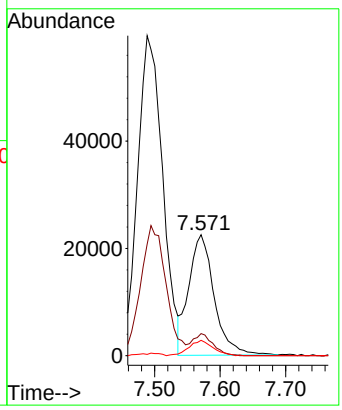


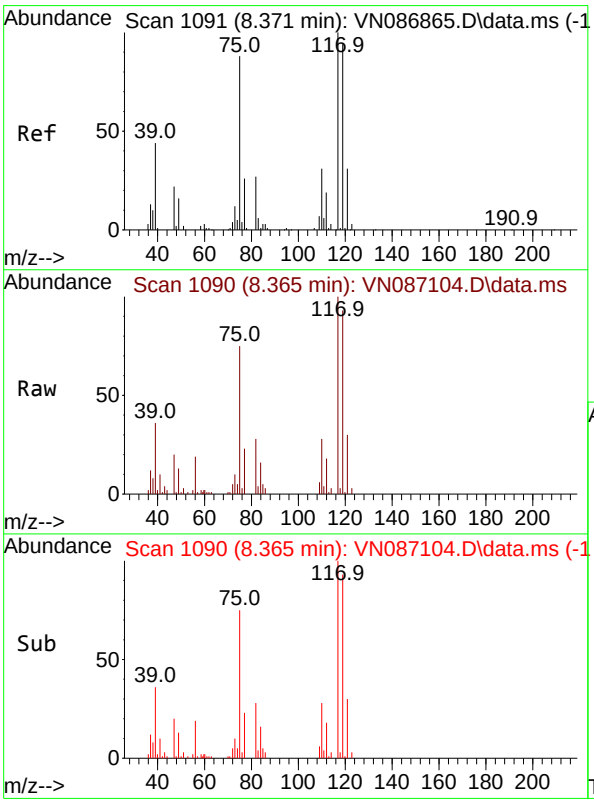
#37
Ethyl Acetate
Concen: 17.955 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 43 Resp: 60681

Ion	Ratio	Lower	Upper
43	100		
61	14.9	12.1	18.1
70	12.1	9.8	14.6

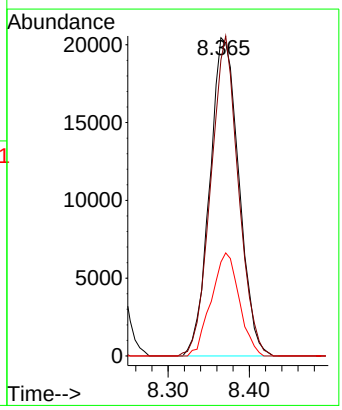


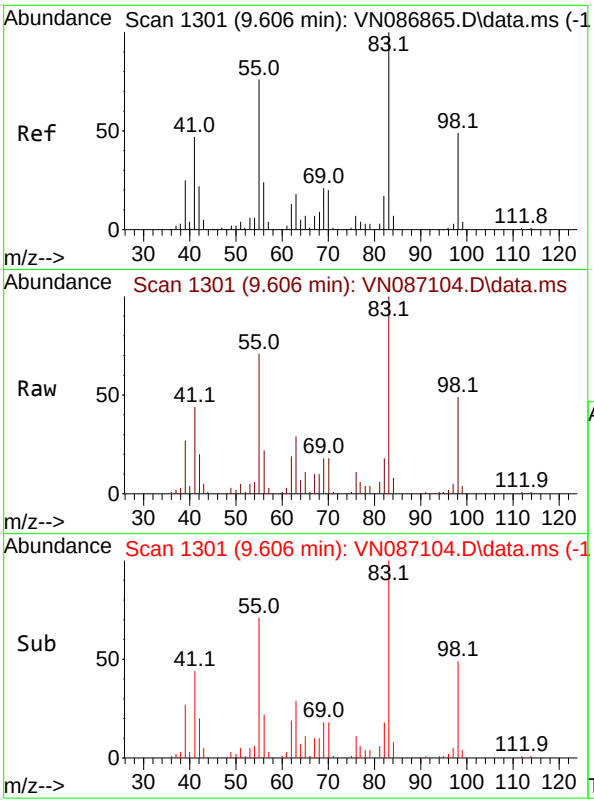


#38
Carbon Tetrachloride
Concen: 19.575 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:117 Resp: 51019

Ion	Ratio	Lower	Upper
117	100		
119	93.0	75.0	112.6
121	29.5	24.9	37.3



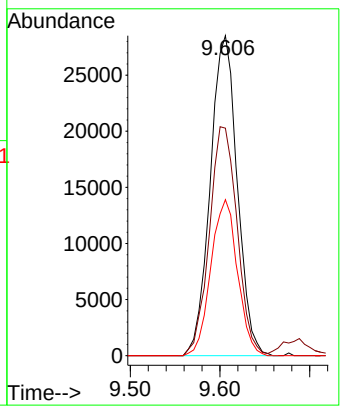


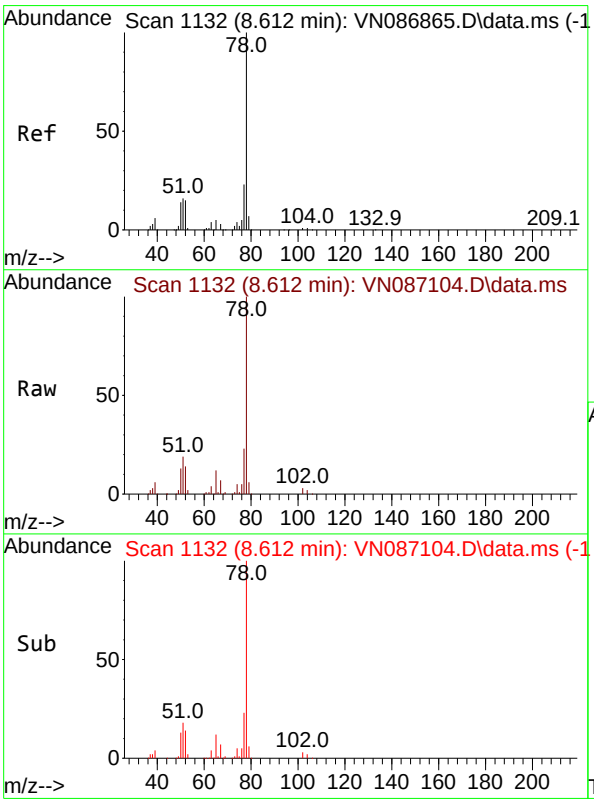
#39
Methylcyclohexane
Concen: 16.377 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 83 Resp: 59566

Ion	Ratio	Lower	Upper
83	100		
55	71.1	61.0	91.6
98	48.8	38.9	58.3

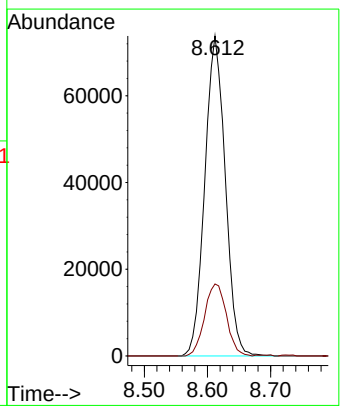


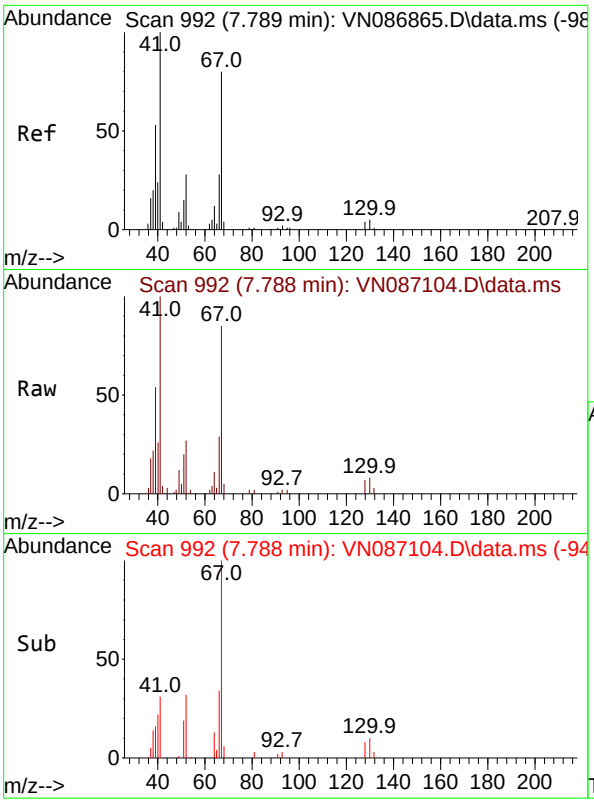


#40
Benzene
Concen: 19.178 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 78 Resp: 166491

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.7	28.1



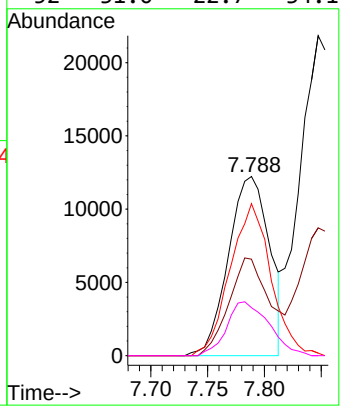


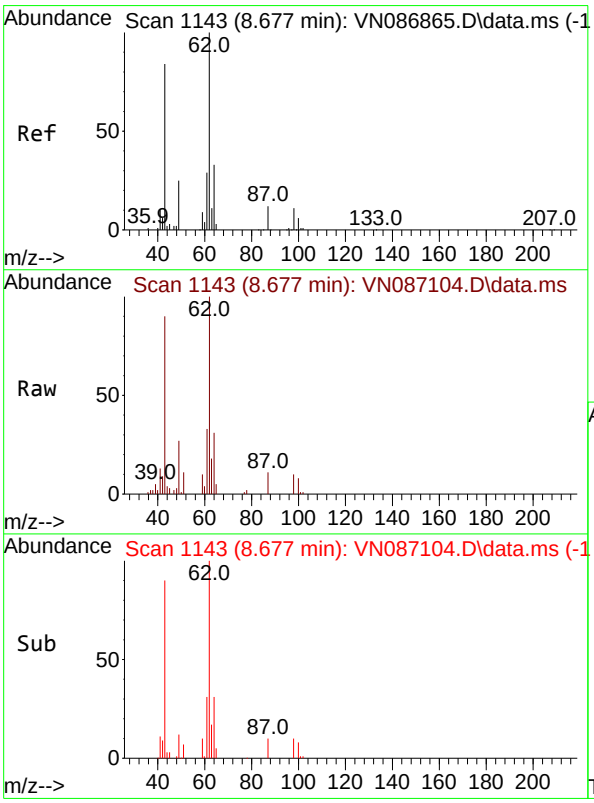
#41
Methacrylonitrile
Concen: 16.226 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 41 Resp: 30797

Ion	Ratio	Lower	Upper
41	100		
39	54.5	41.2	61.8
67	84.7	61.4	92.2
52	31.0	22.7	34.1

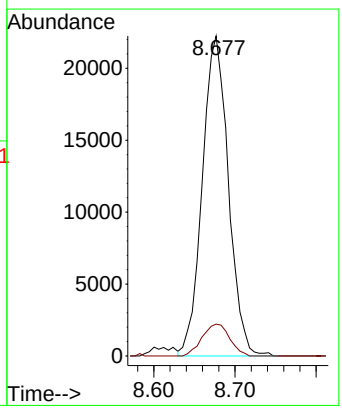


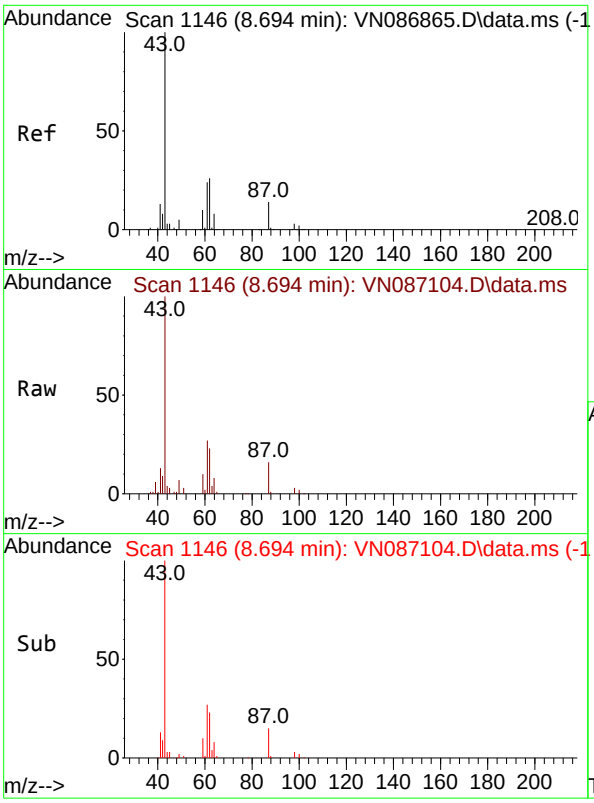


#42
1,2-Dichloroethane
Concen: 18.854 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 62 Resp: 49646

Ion	Ratio	Lower	Upper
62	100		
98	10.5	0.0	21.2



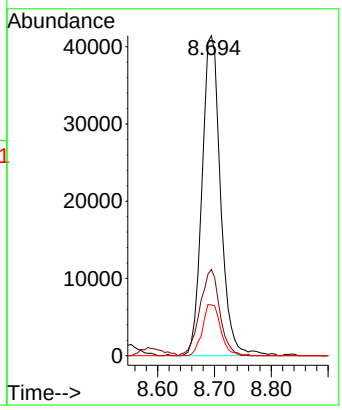


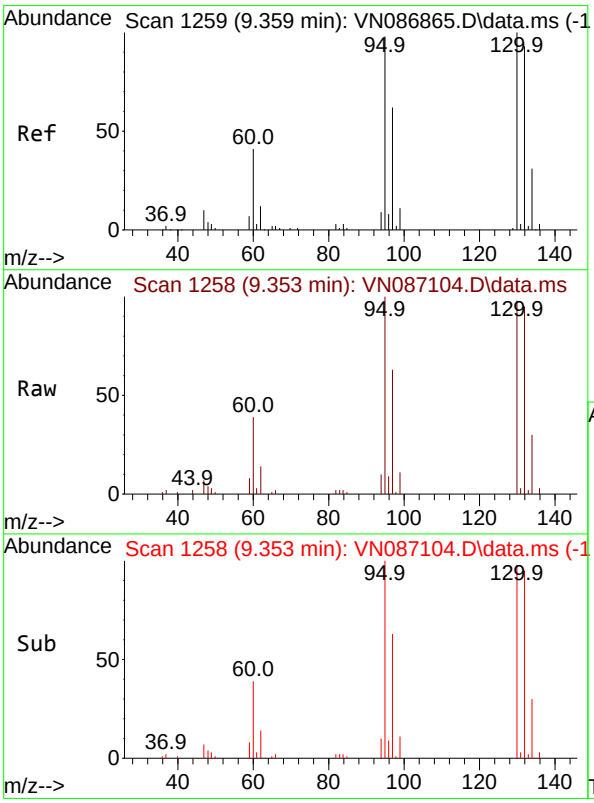
#43
Isopropyl Acetate
Concen: 17.303 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 43 Resp: 93856

Ion	Ratio	Lower	Upper
43	100		
61	28.7	22.1	33.1
87	15.7	11.8	17.6

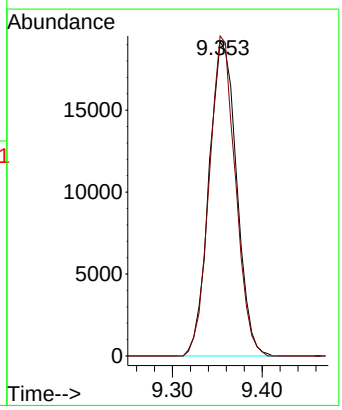


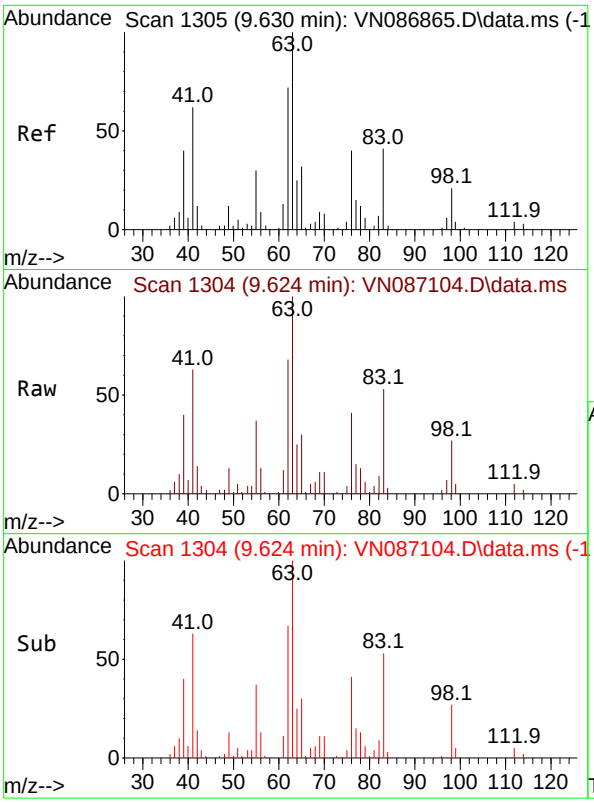


#44
Trichloroethene
Concen: 19.912 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:130 Resp: 40989

Ion	Ratio	Lower	Upper
130	100		
95	101.8	0.0	196.2



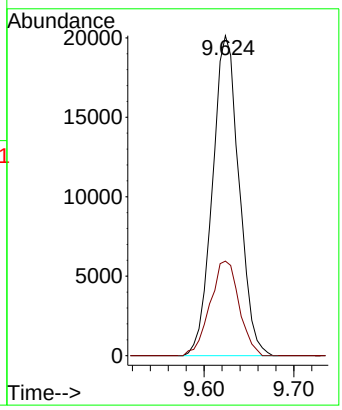


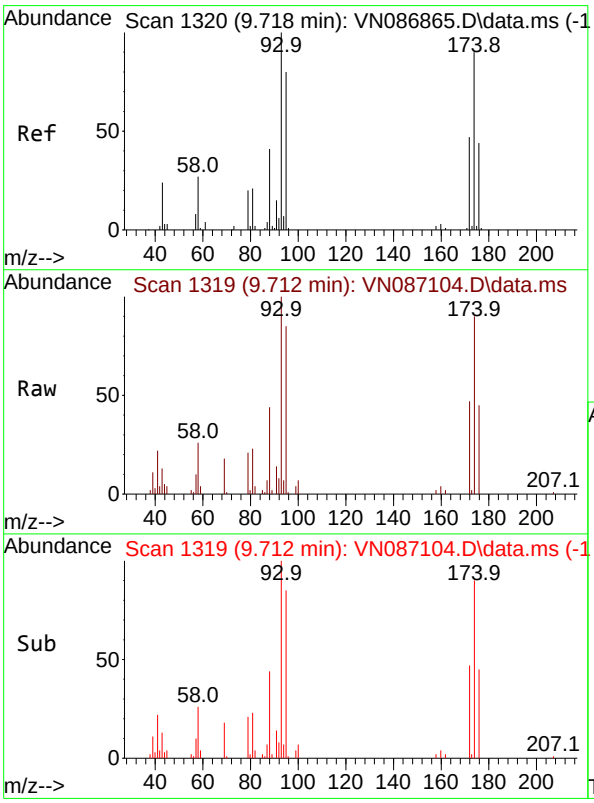
#45
1,2-Dichloropropane
Concen: 19.548 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 63 Resp: 41287

Ion	Ratio	Lower	Upper
63	100		
65	29.5	25.5	38.3

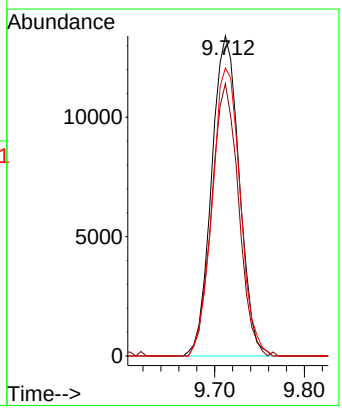


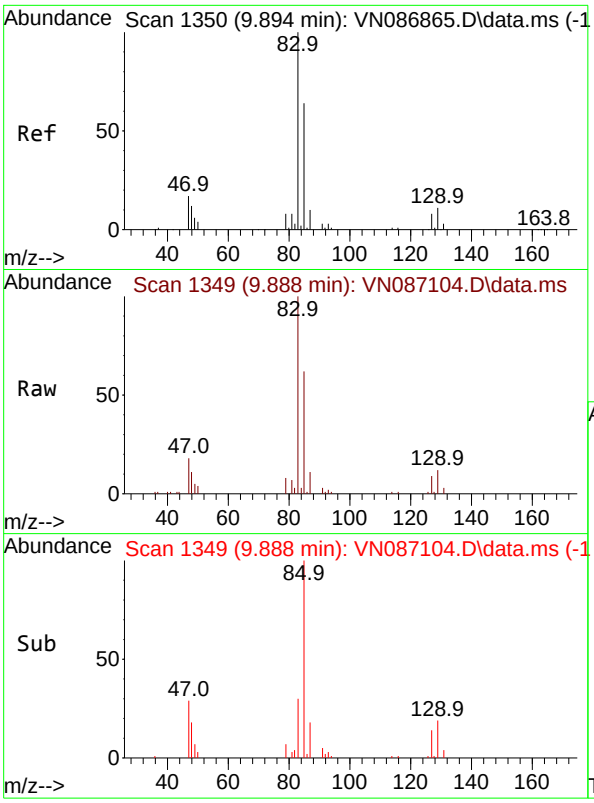


#46
Dibromomethane
Concen: 20.457 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 93 Resp: 28698

Ion	Ratio	Lower	Upper
93	100		
95	82.9	67.1	100.7
174	90.6	74.2	111.4



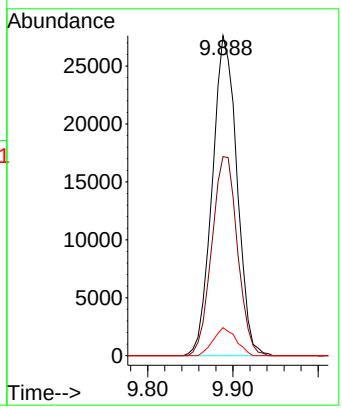


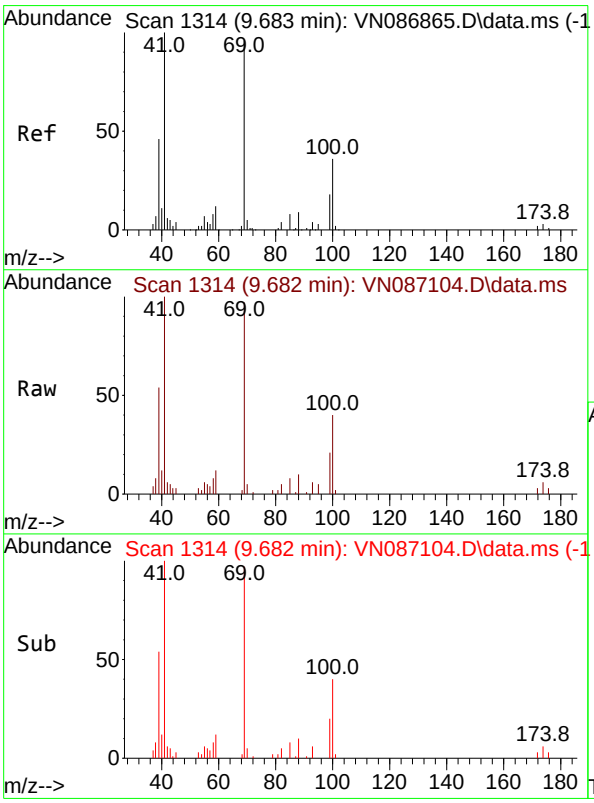
#47
Bromodichloromethane
Concen: 19.231 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 83 Resp: 55507

Ion	Ratio	Lower	Upper
83	100		
85	62.2	50.9	76.3
127	8.8	6.6	10.0

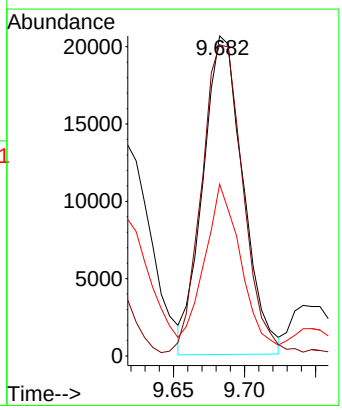


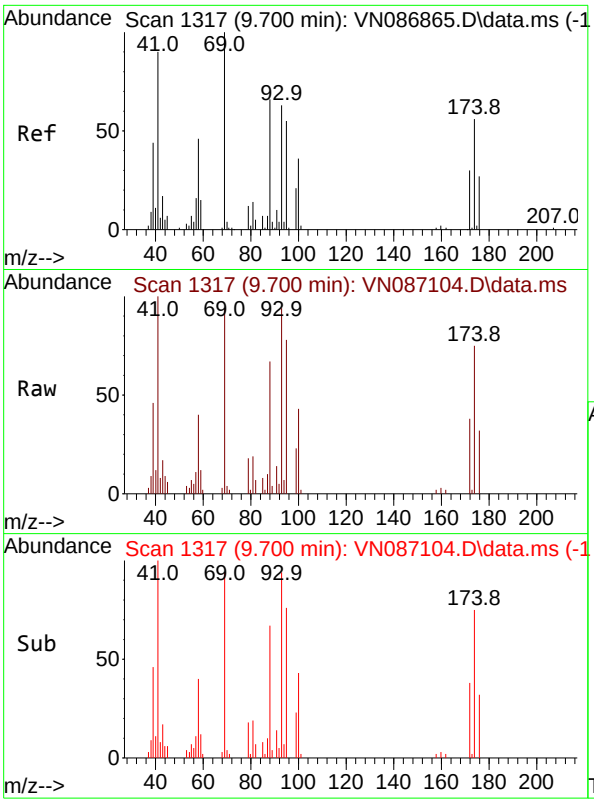


#48
Methyl methacrylate
Concen: 16.216 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 41 Resp: 40484

Ion	Ratio	Lower	Upper
41	100		
69	99.9	74.6	112.0
39	51.0	40.2	60.4



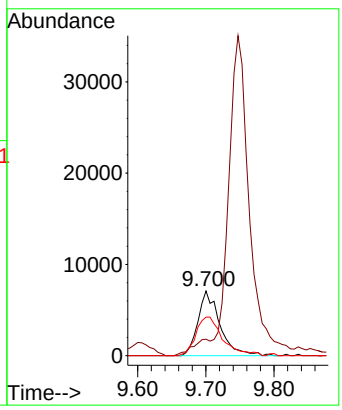


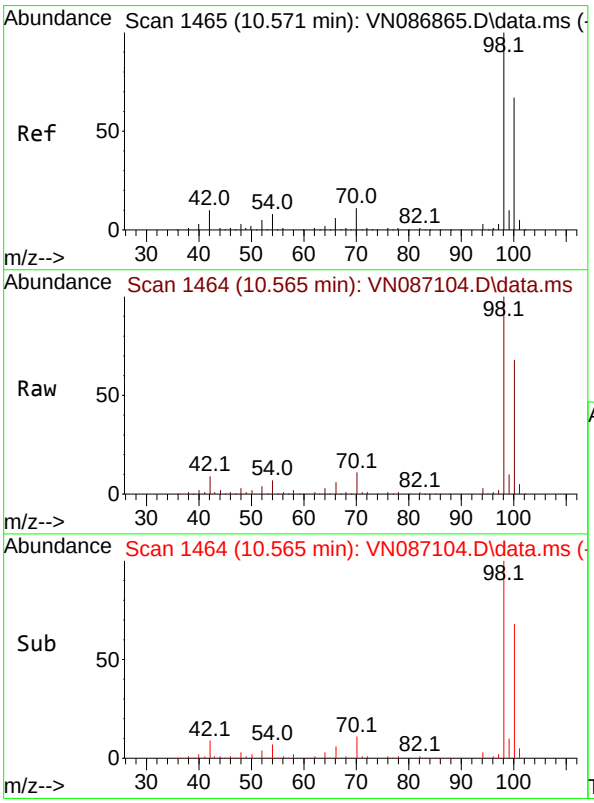
#49
1,4-Dioxane
Concen: 349.264 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 88 Resp: 15863

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	72.8	57.7	86.5

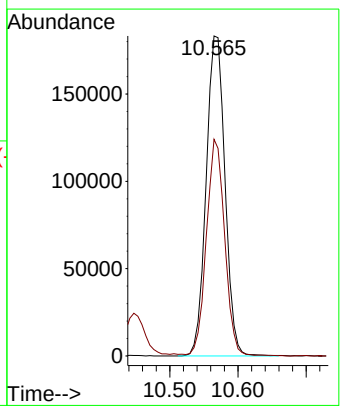


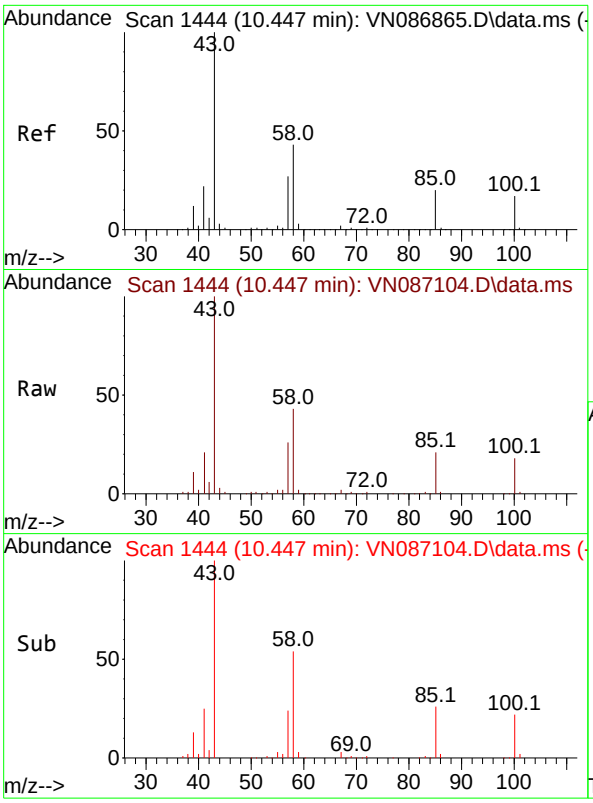


#50
Toluene-d8
Concen: 49.943 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 98 Resp: 352249

Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.4	80.0



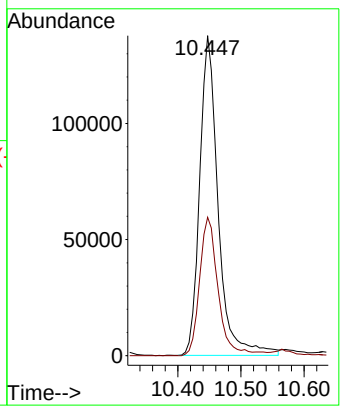


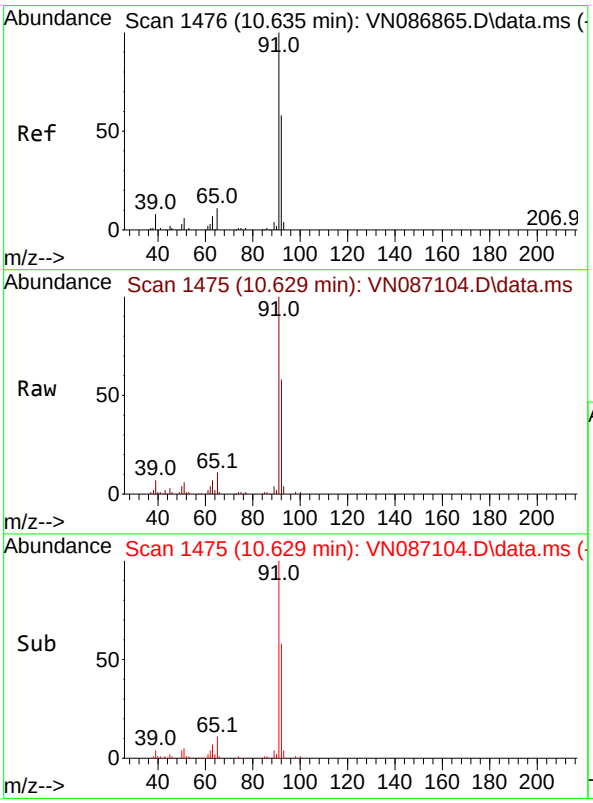
#51
4-Methyl-2-Pentanone
Concen: 85.559 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 43 Resp: 279386

Ion	Ratio	Lower	Upper
43	100		
58	43.7	34.2	51.4

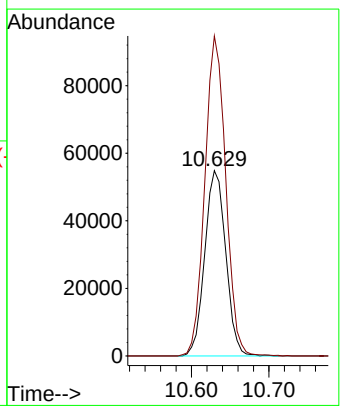


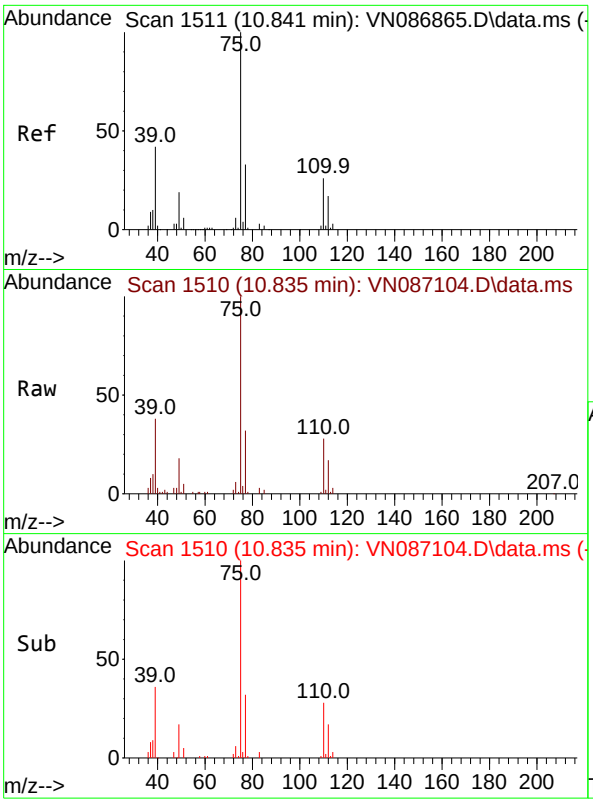


#52
Toluene
Concen: 19.487 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 92 Resp: 103384

Ion	Ratio	Lower	Upper
92	100		
91	171.6	136.5	204.7



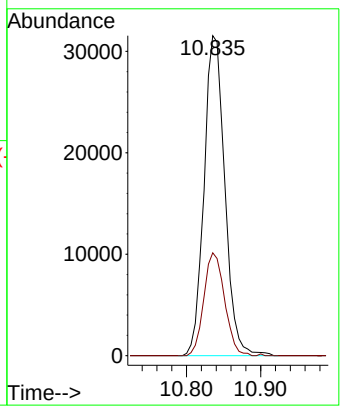


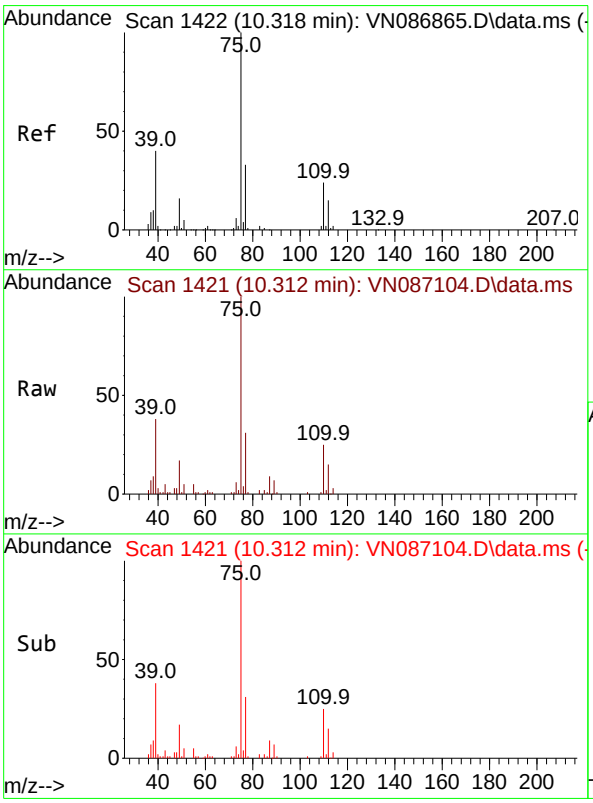
#53
t-1,3-Dichloropropene
Concen: 19.028 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 75 Resp: 61414

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.4	39.6

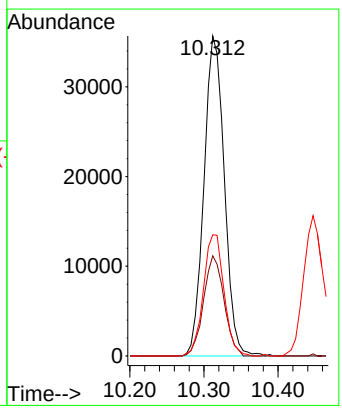


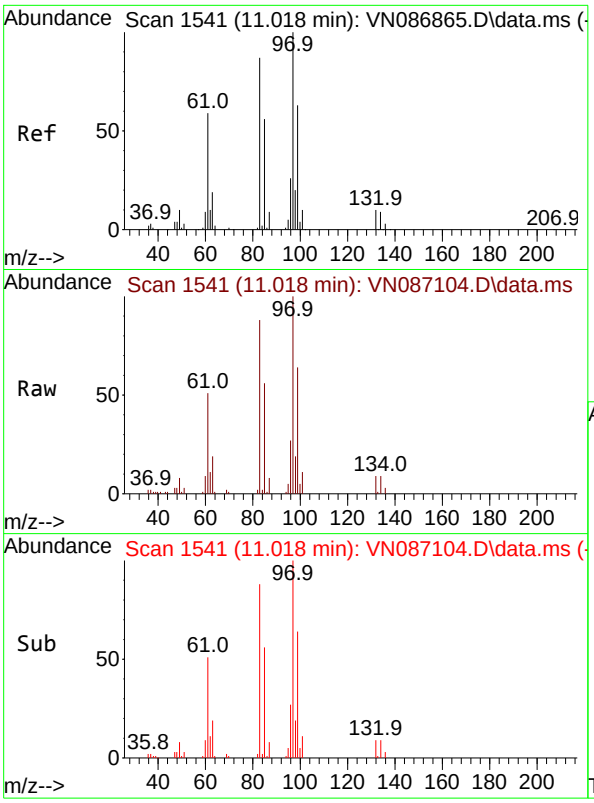


#54
cis-1,3-Dichloropropene
Concen: 19.730 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 75 Resp: 68133

Ion	Ratio	Lower	Upper
75	100		
77	31.3	26.2	39.4
39	37.8	32.3	48.5



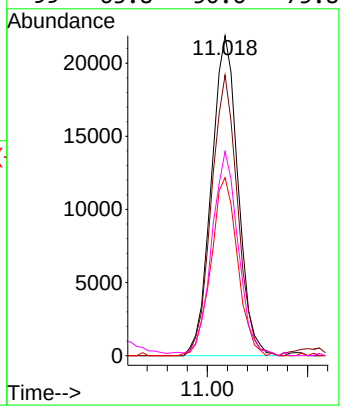


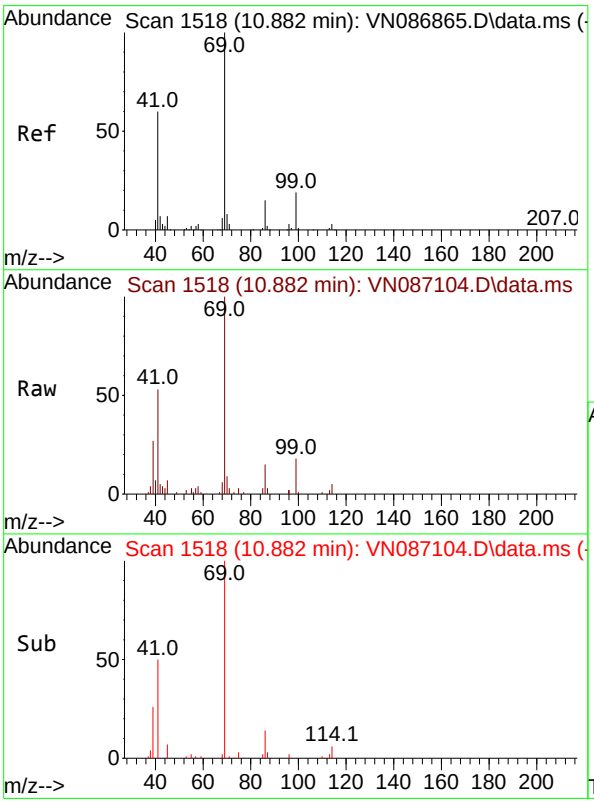
#55
1,1,2-Trichloroethane
Concen: 19.716 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 97 Resp: 40248

Ion	Ratio	Lower	Upper
97	100		
83	87.7	69.7	104.5
85	55.6	45.1	67.7
99	63.8	50.6	75.8

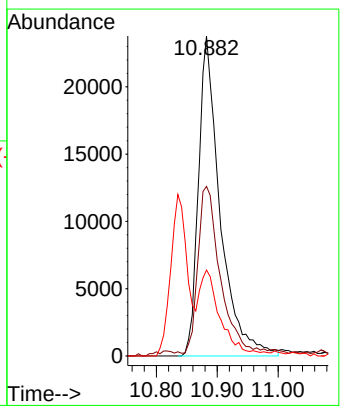


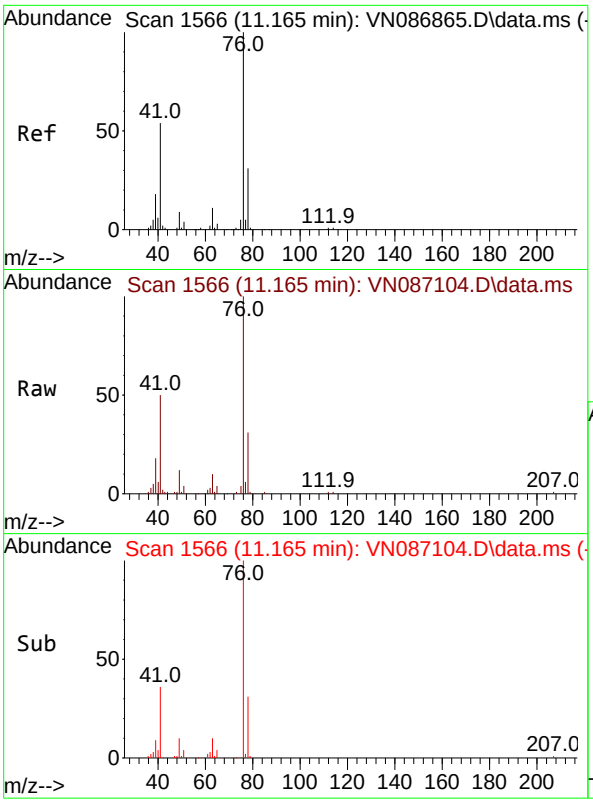


#56
Ethyl methacrylate
Concen: 18.024 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 69 Resp: 58604

Ion	Ratio	Lower	Upper
69	100		
41	54.1	47.2	70.8
39	26.1	23.0	34.6



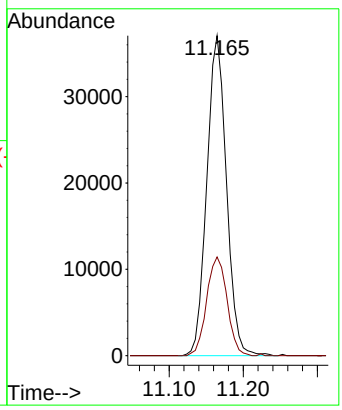


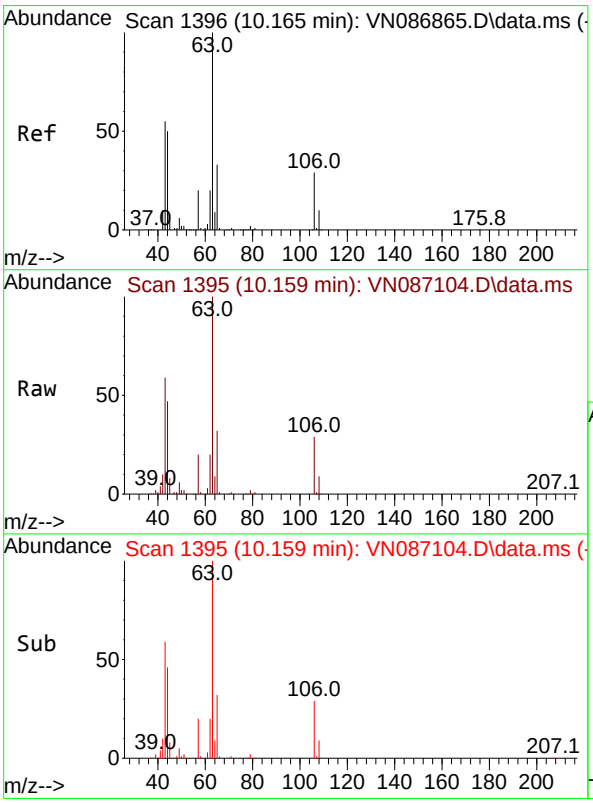
#57
1,3-Dichloropropane
Concen: 19.242 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 76 Resp: 68142

Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.3	37.9

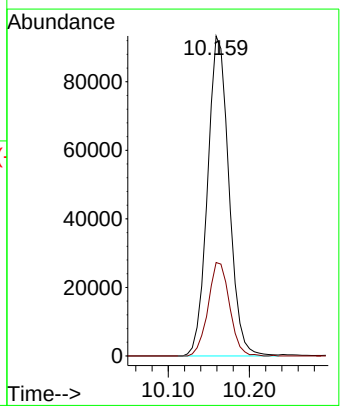


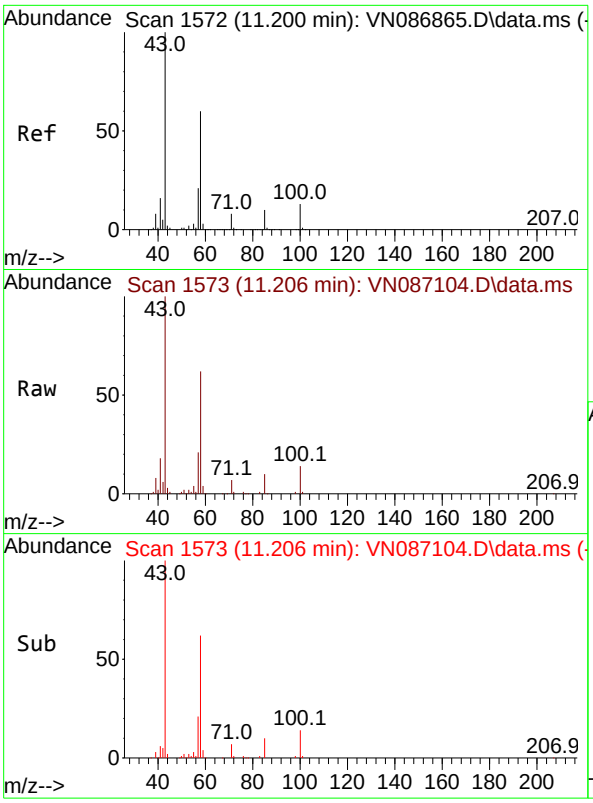


#58
2-Chloroethyl Vinyl ether
Concen: 88.120 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 63 Resp: 170894

Ion	Ratio	Lower	Upper
63	100		
106	29.3	23.0	34.6



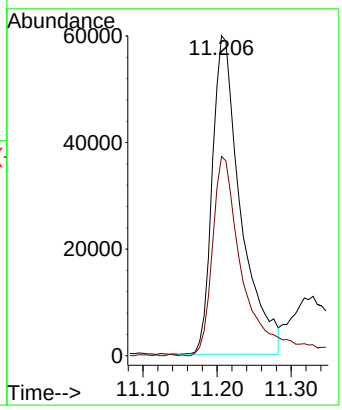


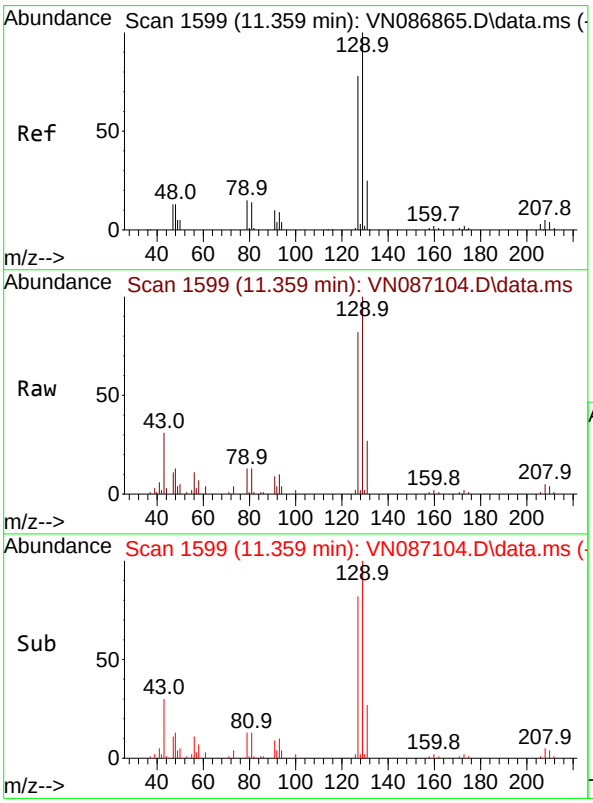
#59
2-Hexanone
Concen: 75.642 ug/l
RT: 11.206 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 43 Resp: 159103

Ion	Ratio	Lower	Upper
43	100		
58	67.2	30.4	91.3

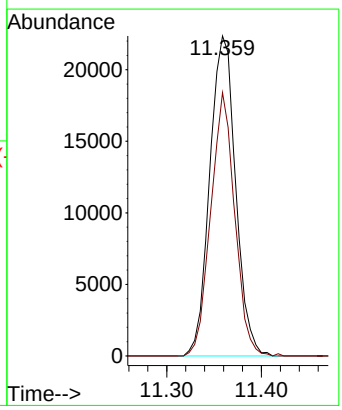


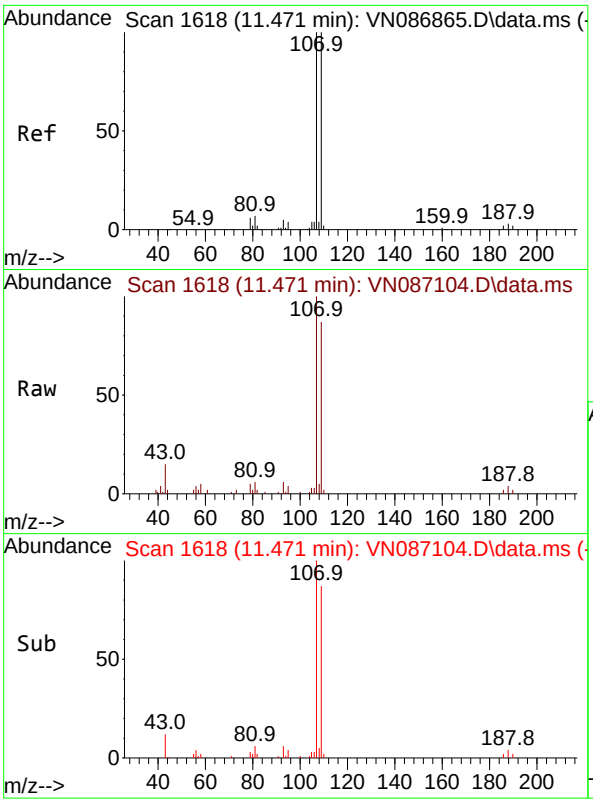


#60
Dibromochloromethane
Concen: 19.946 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:129 Resp: 42423

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.6	115.8



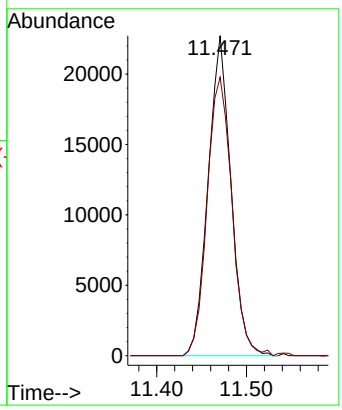


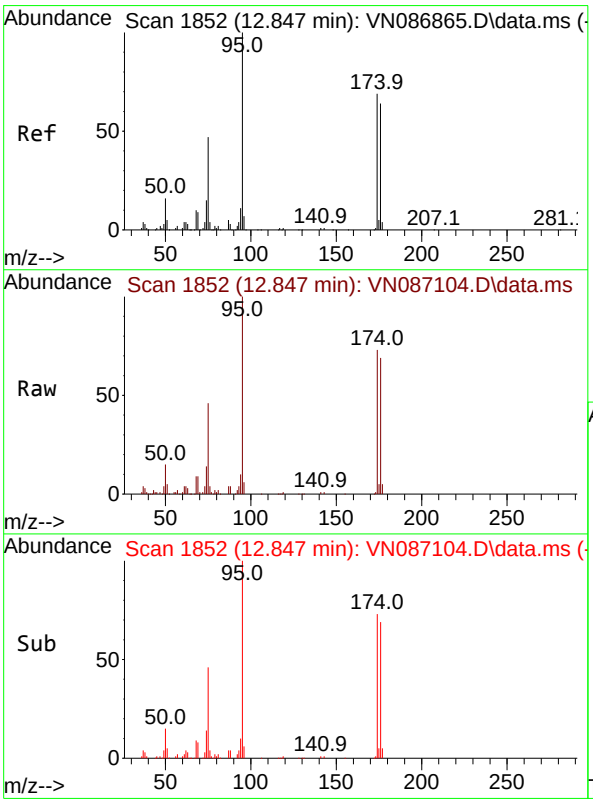
#61
1,2-Dibromoethane
Concen: 19.135 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:107 Resp: 40038

Ion	Ratio	Lower	Upper
107	100		
109	94.4	76.3	114.5

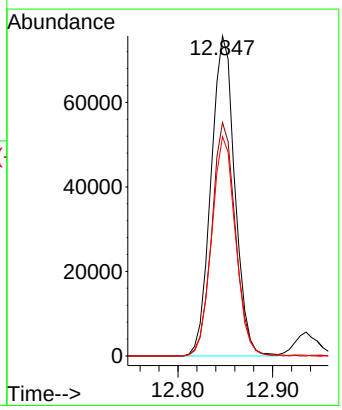


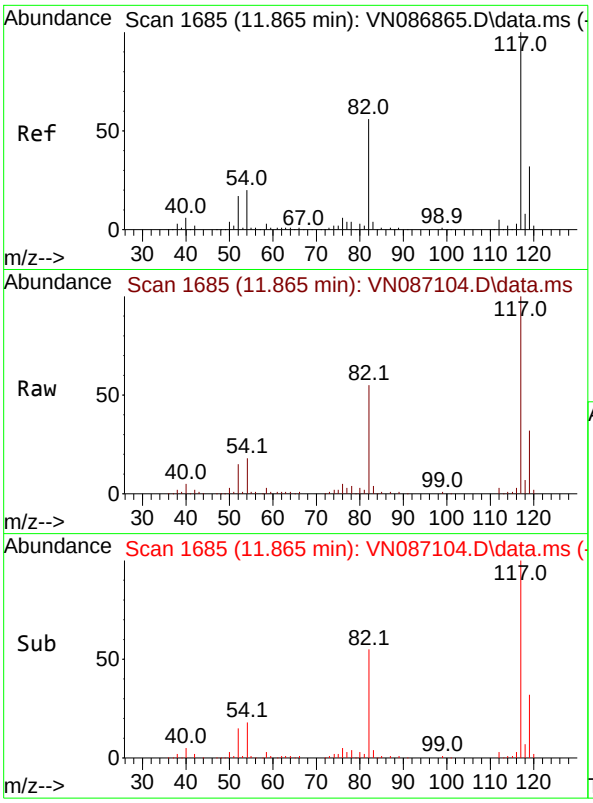


#62
4-Bromofluorobenzene
Concen: 50.328 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 95 Resp: 131878

Ion	Ratio	Lower	Upper
95	100		
174	72.6	0.0	141.8
176	68.7	0.0	132.6



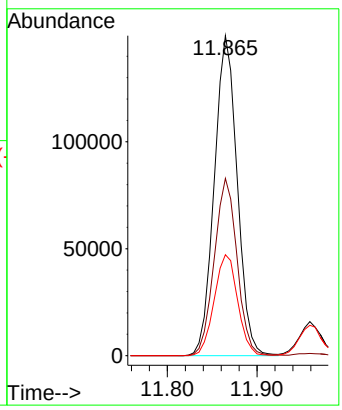


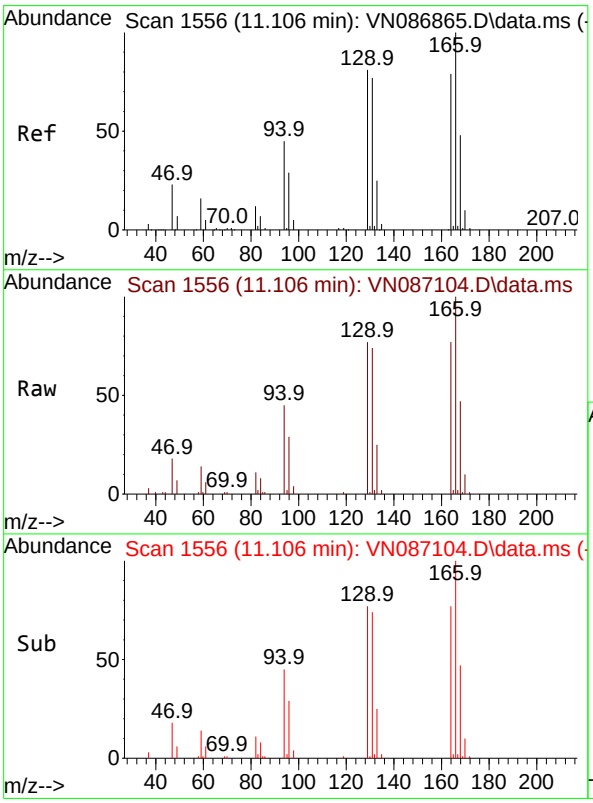
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:117 Resp: 265368

Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.6	67.0
119	31.6	25.5	38.3

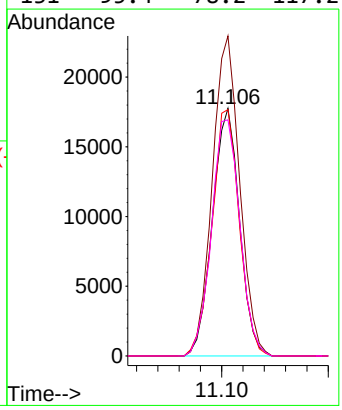


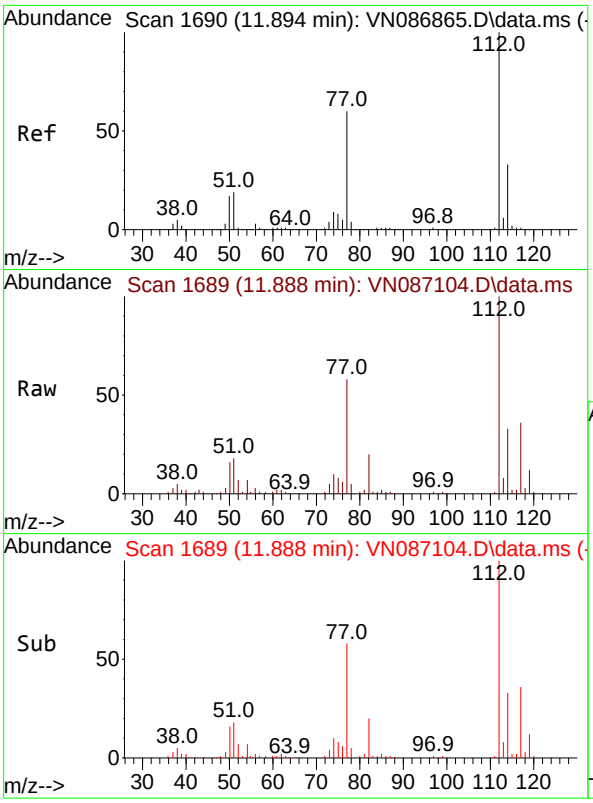


#64
Tetrachloroethene
Concen: 18.678 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:164 Resp: 31369

Ion	Ratio	Lower	Upper
164	100		
166	129.3	101.8	152.8
129	99.5	83.0	124.4
131	95.4	78.2	117.2



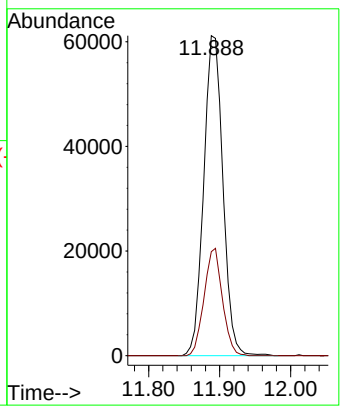


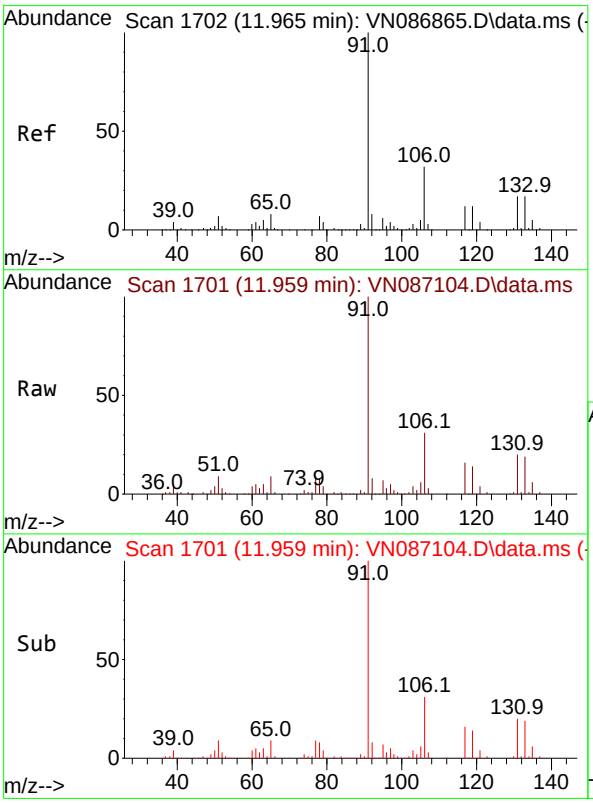
#65
Chlorobenzene
Concen: 19.648 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:112 Resp: 114996

Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.2	39.2

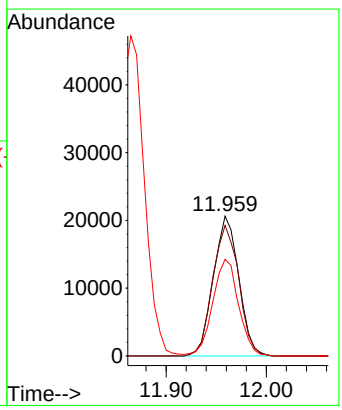


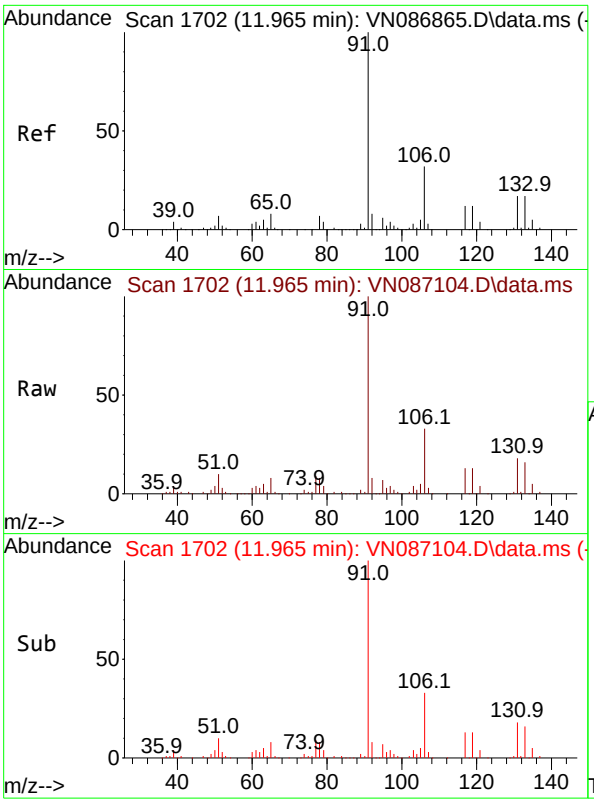


#66
1,1,1,2-Tetrachloroethane
Concen: 19.339 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:131 Resp: 36384

Ion	Ratio	Lower	Upper
131	100		
133	96.2	48.3	144.8
119	70.1	34.0	101.8



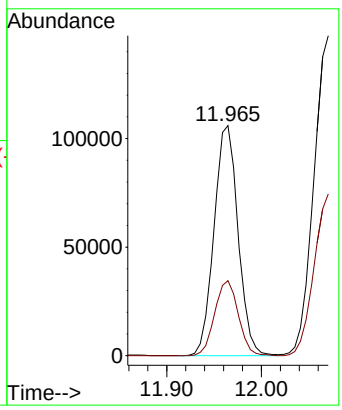


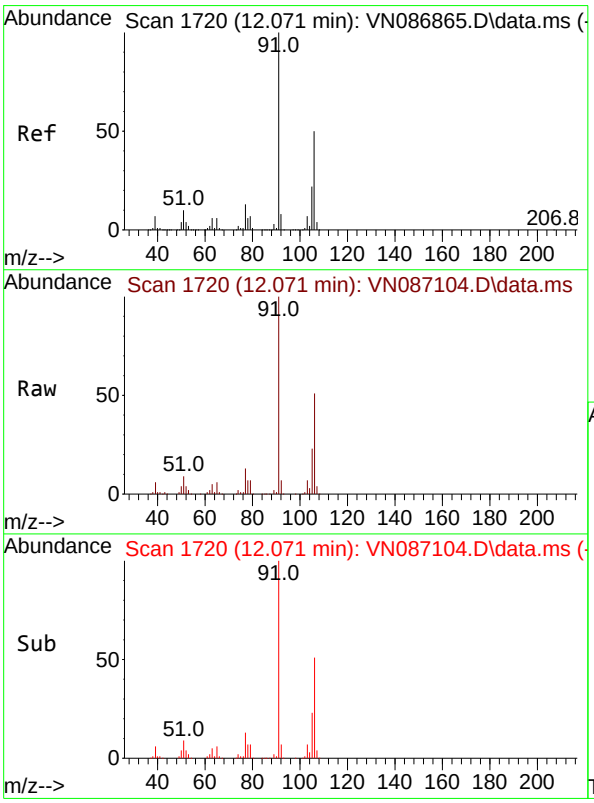
#67
Ethyl Benzene
Concen: 18.559 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 91 Resp: 187103

Ion	Ratio	Lower	Upper
91	100		
106	32.6	25.4	38.2

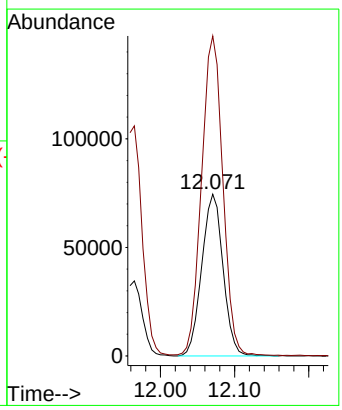


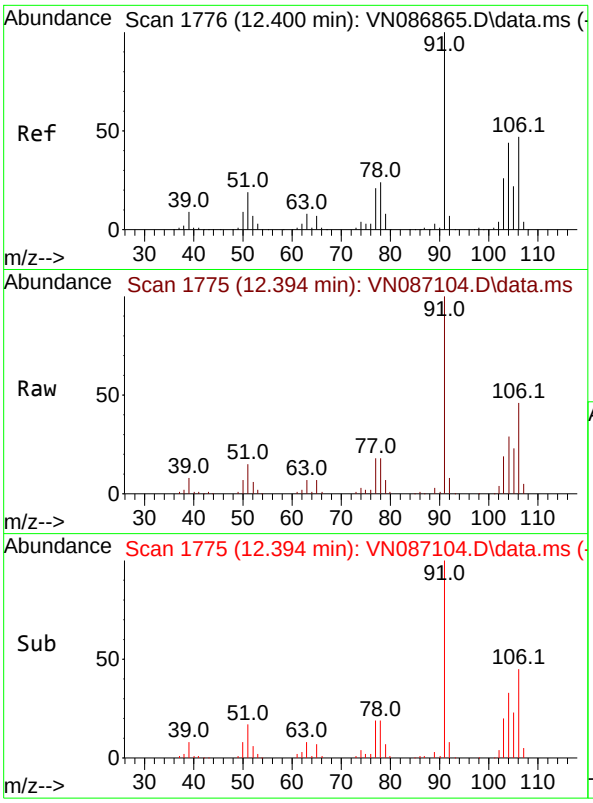


#68
m/p-Xylenes
Concen: 38.516 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:106 Resp: 148640

Ion	Ratio	Lower	Upper
106	100		
91	197.7	159.4	239.0



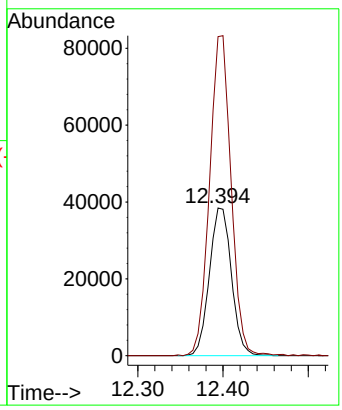


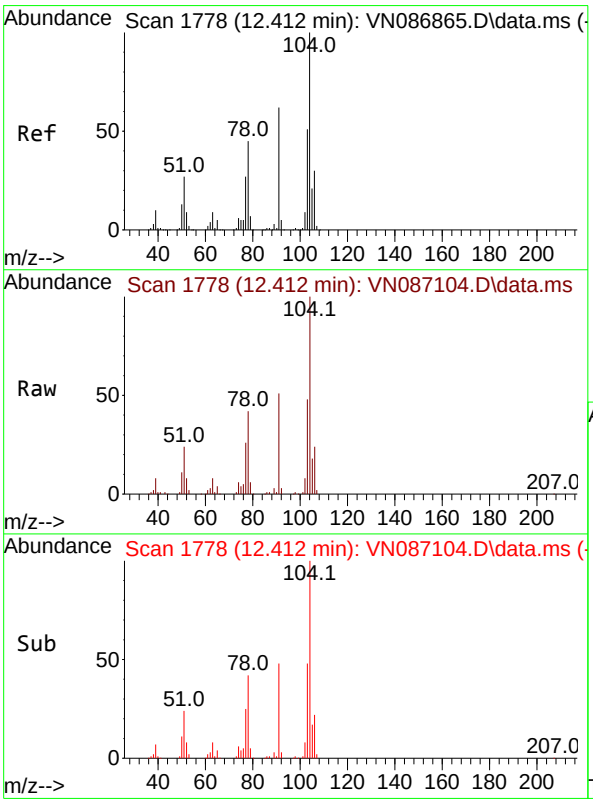
#69
o-Xylene
Concen: 18.678 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:106 Resp: 69033

Ion	Ratio	Lower	Upper
106	100		
91	211.8	106.1	318.1

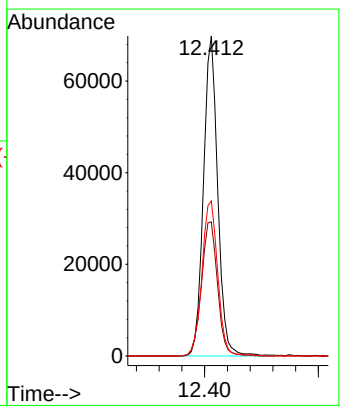


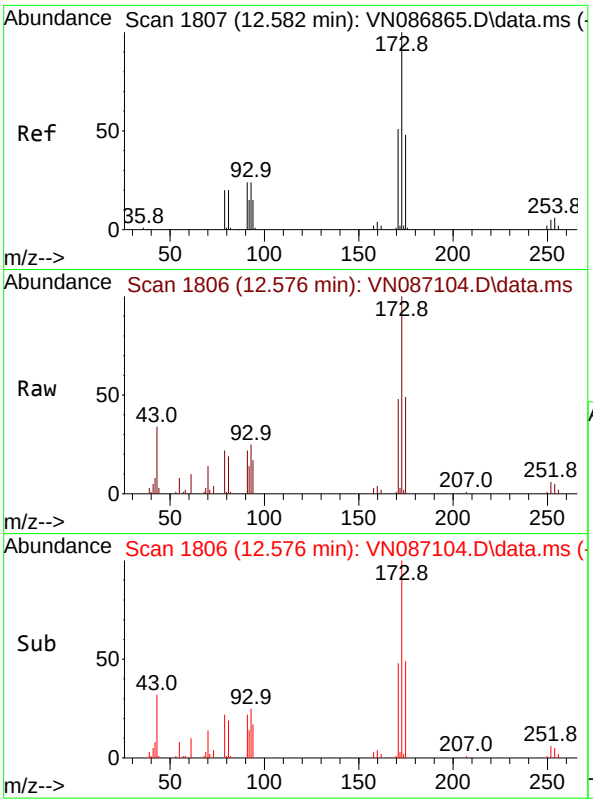


#70
Styrene
Concen: 19.185 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:104 Resp: 121336

Ion	Ratio	Lower	Upper
104	100		
78	47.0	38.5	57.7
103	53.5	43.1	64.7



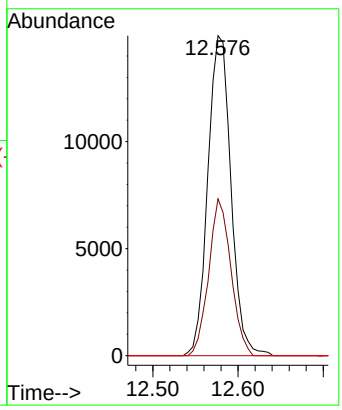


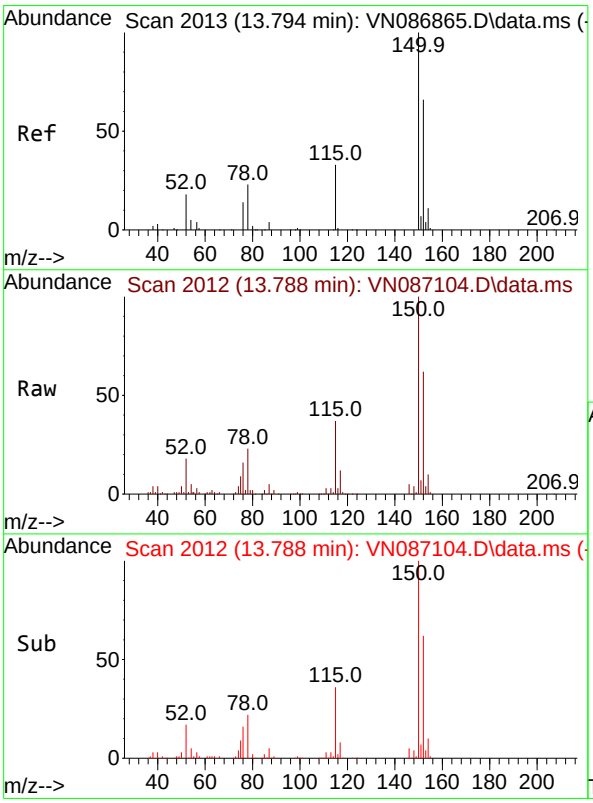
#71
Bromoform
Concen: 20.223 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:173 Resp: 28191

Ion	Ratio	Lower	Upper
173	100		
175	47.1	24.1	72.4
254	0.0	0.0	0.0

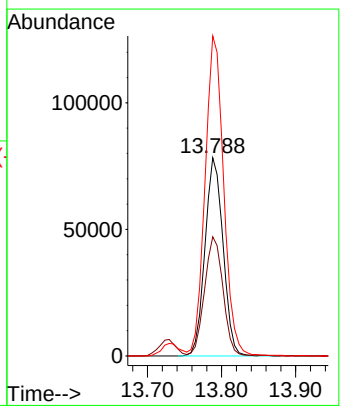


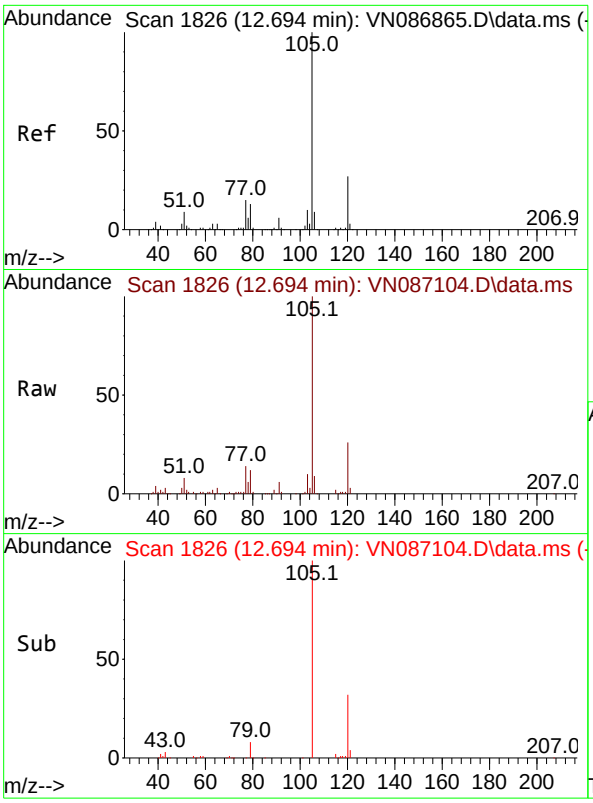


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:152 Resp: 132931

Ion	Ratio	Lower	Upper
152	100		
115	61.2	30.1	90.5
150	166.3	0.0	345.0



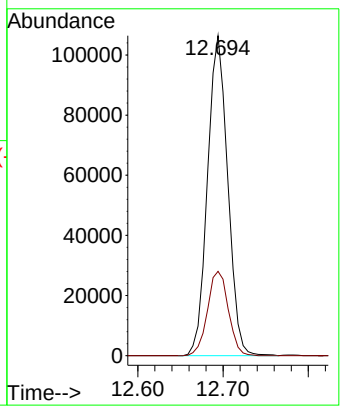


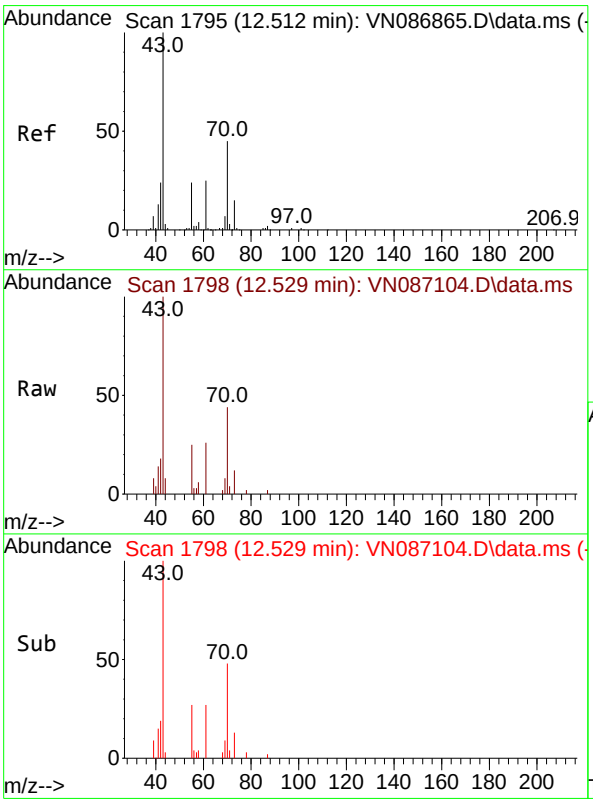
#73
Isopropylbenzene
Concen: 18.117 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:105 Resp: 175452

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.5	40.4

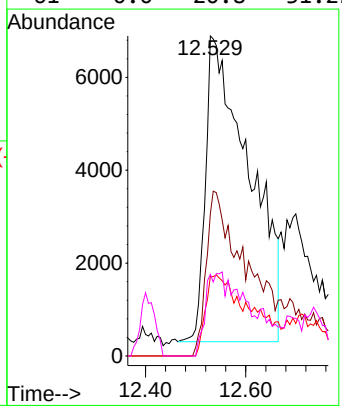


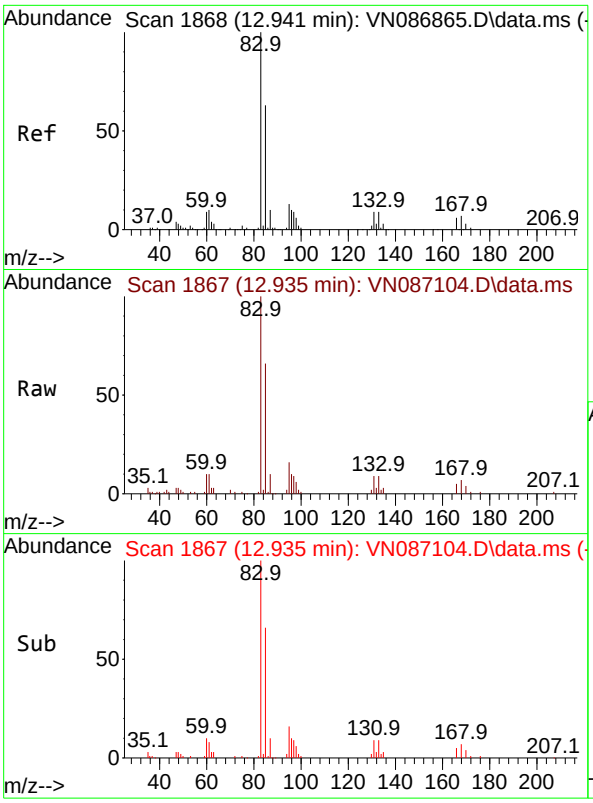


#74
N-amyl acetate
Concen: 11.701 ug/l
RT: 12.529 min Scan# 1798
Delta R.T. 0.018 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 43 Resp: 39597

Ion	Ratio	Lower	Upper
43	100		
70	27.8	37.6	56.4#
55	18.1	19.0	28.6#
61	0.0	20.8	31.2#



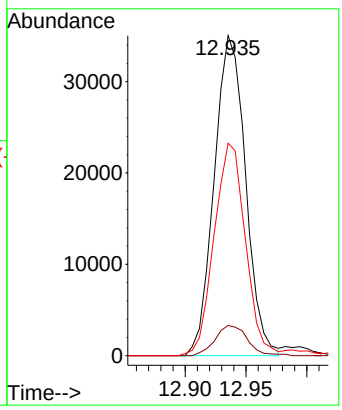


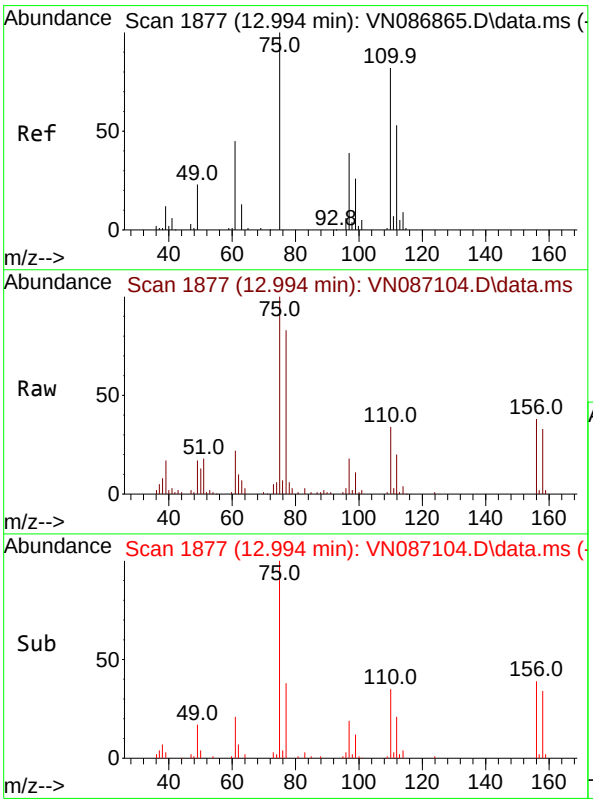
#75
1,1,2,2-Tetrachloroethane
Concen: 19.142 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 83 Resp: 62799

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.9	14.7
85	66.4	32.0	96.0

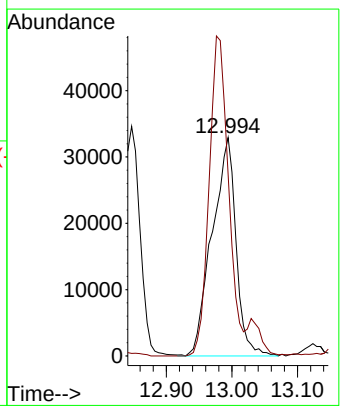


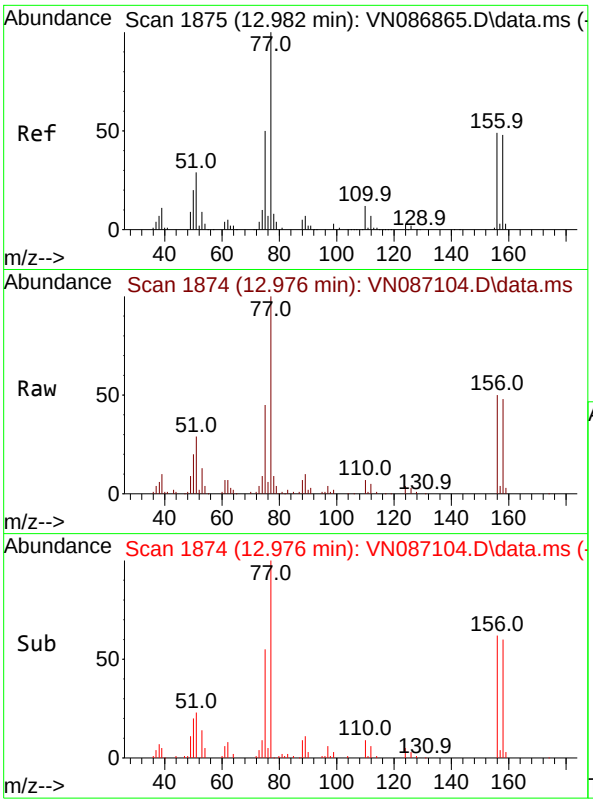


#76
1,2,3-Trichloropropane
Concen: 26.357 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 75 Resp: 83282

Ion	Ratio	Lower	Upper
75	100		
77	118.7	79.3	237.9



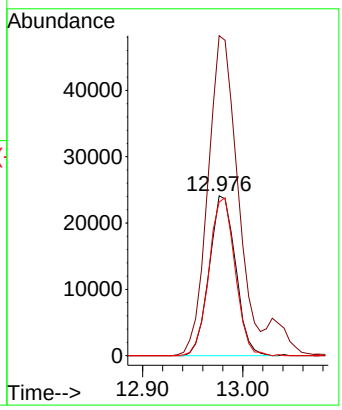


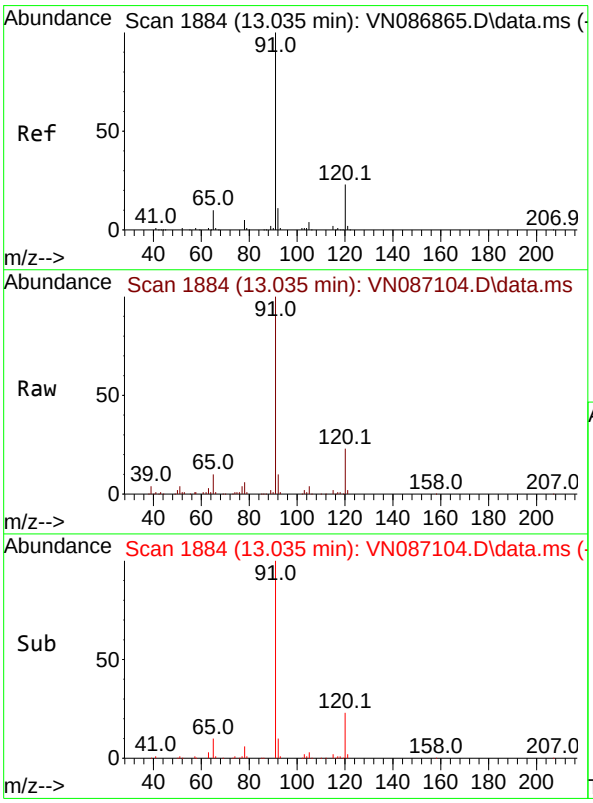
#77
Bromobenzene
Concen: 19.723 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:156 Resp: 43802

Ion	Ratio	Lower	Upper
156	100		
77	225.6	117.7	353.1
158	98.0	48.1	144.4

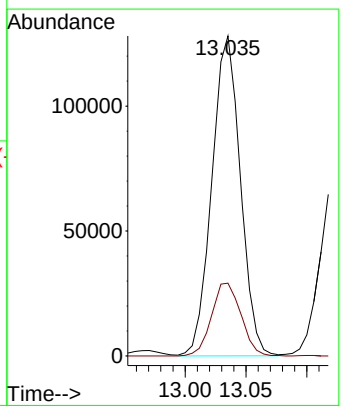


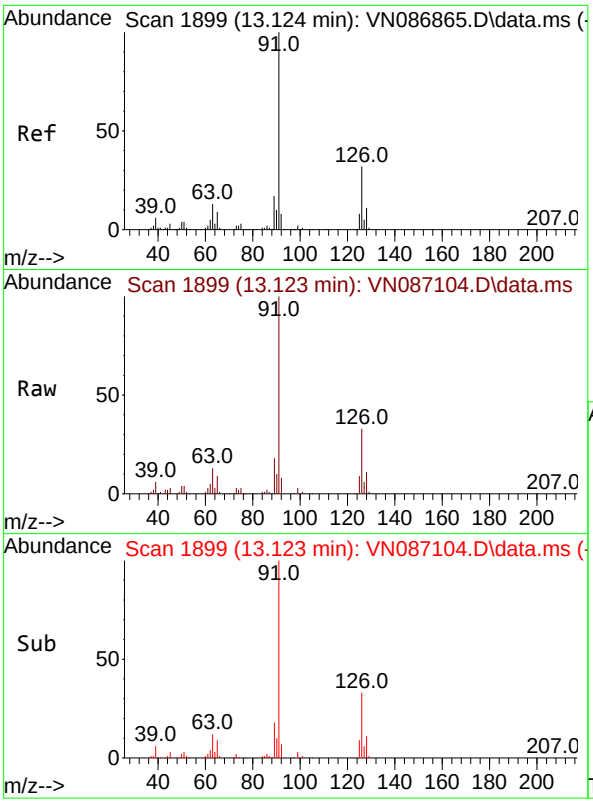


#78
n-propylbenzene
Concen: 17.730 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 91 Resp: 208663

Ion	Ratio	Lower	Upper
91	100		
120	23.5	11.4	34.2



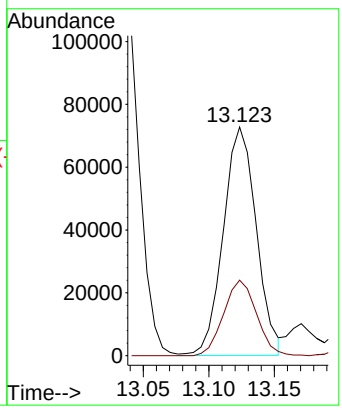


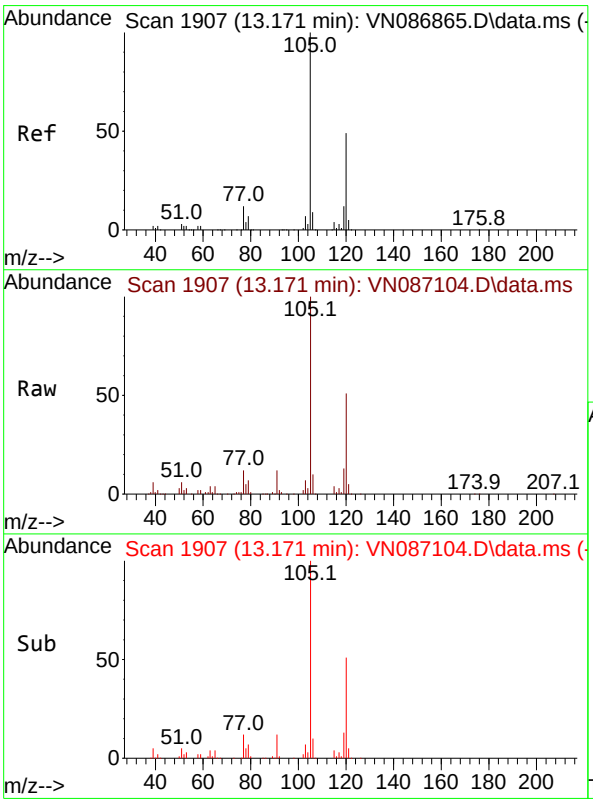
#79
2-Chlorotoluene
Concen: 18.054 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 91 Resp: 127425

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.2	48.5

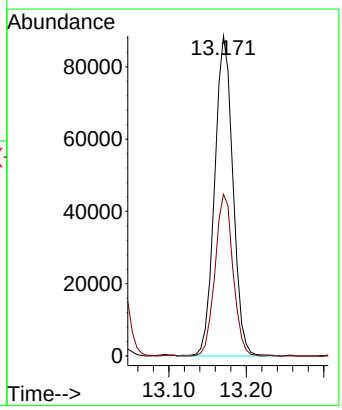


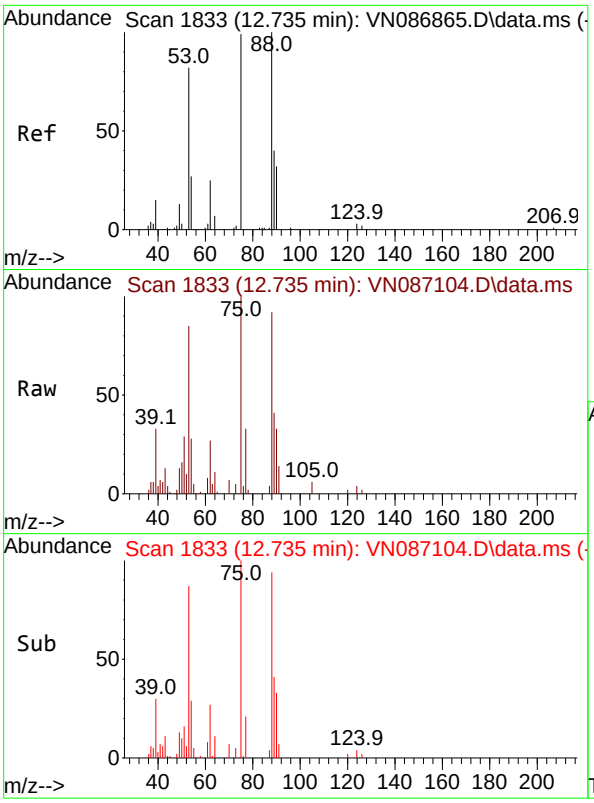


#80
1,3,5-Trimethylbenzene
Concen: 18.184 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:105 Resp: 145386

Ion	Ratio	Lower	Upper
105	100		
120	49.7	24.9	74.6



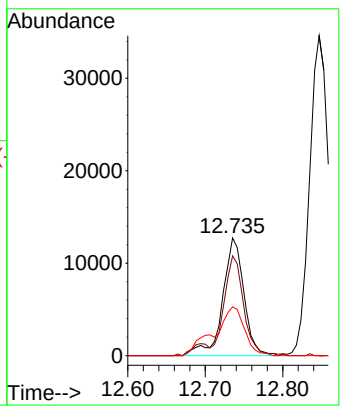


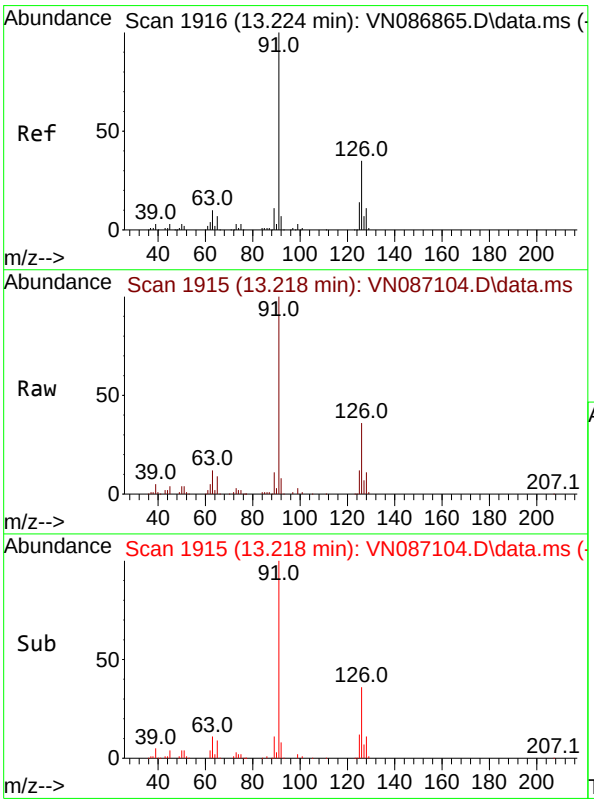
#81
trans-1,4-Dichloro-2-butene
Concen: 17.762 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 75 Resp: 24382

Ion	Ratio	Lower	Upper
75	100		
53	77.4	66.6	99.8
89	59.0	36.7	55.1#

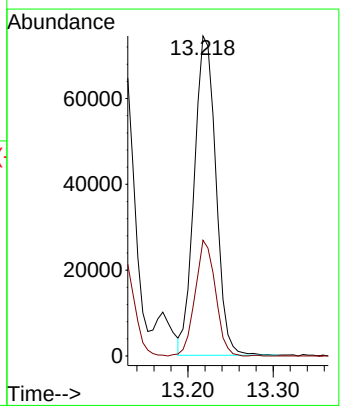


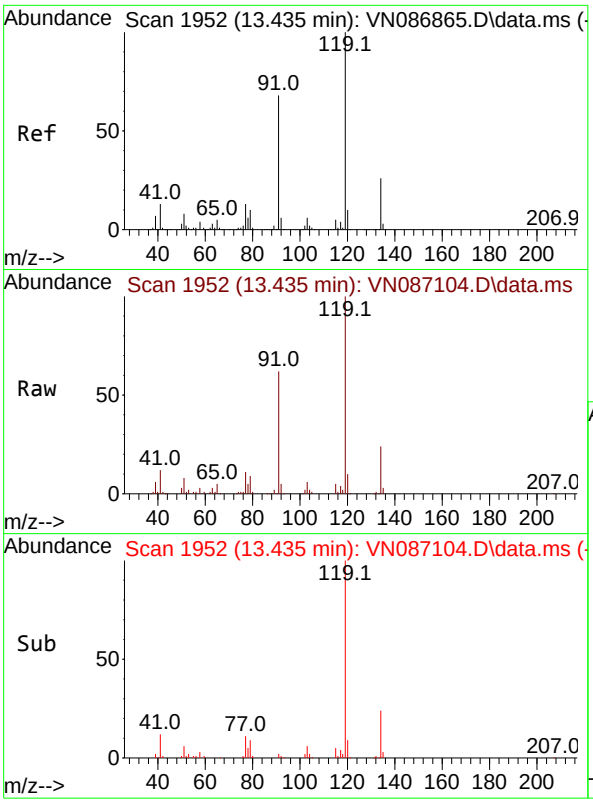


#82
4-Chlorotoluene
Concen: 18.373 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 91 Resp: 131206

Ion	Ratio	Lower	Upper
91	100		
126	34.1	16.7	50.1



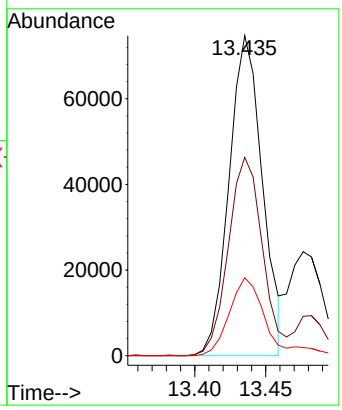


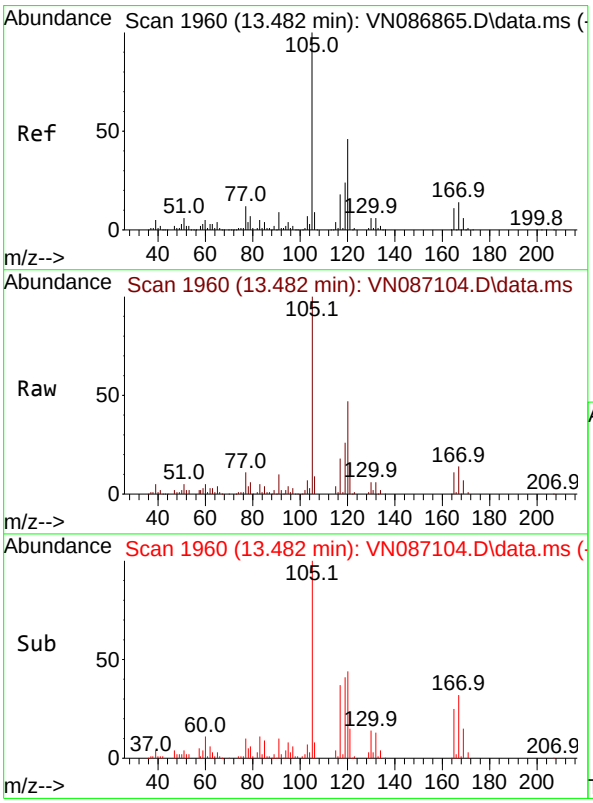
#83
tert-Butylbenzene
Concen: 16.646 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:119 Resp: 121825

Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.1	96.5
134	26.8	13.4	40.1

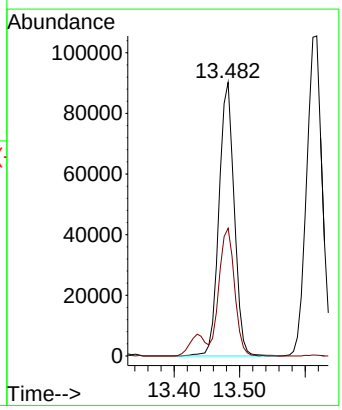


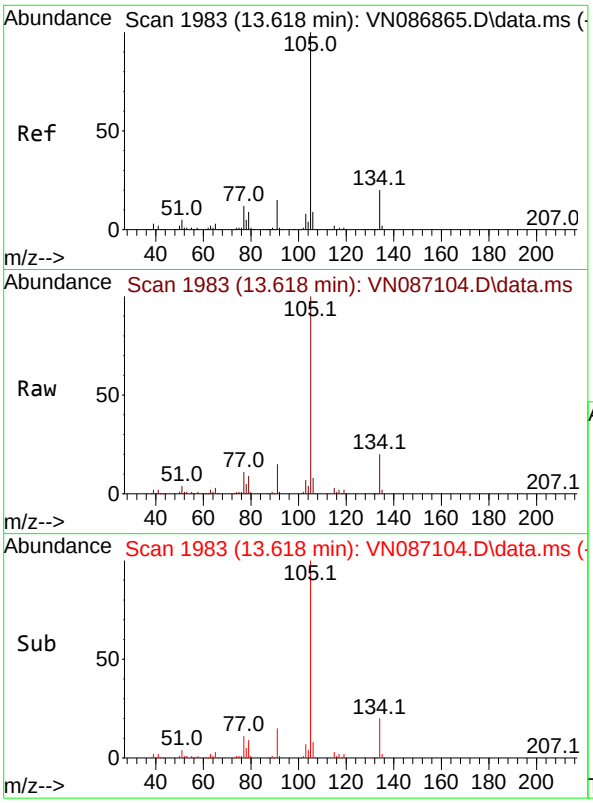


#84
1,2,4-Trimethylbenzene
Concen: 18.101 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:105 Resp: 145127

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.2	69.6



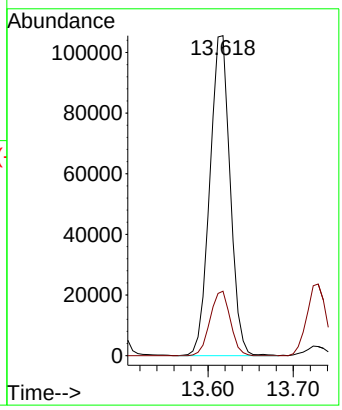


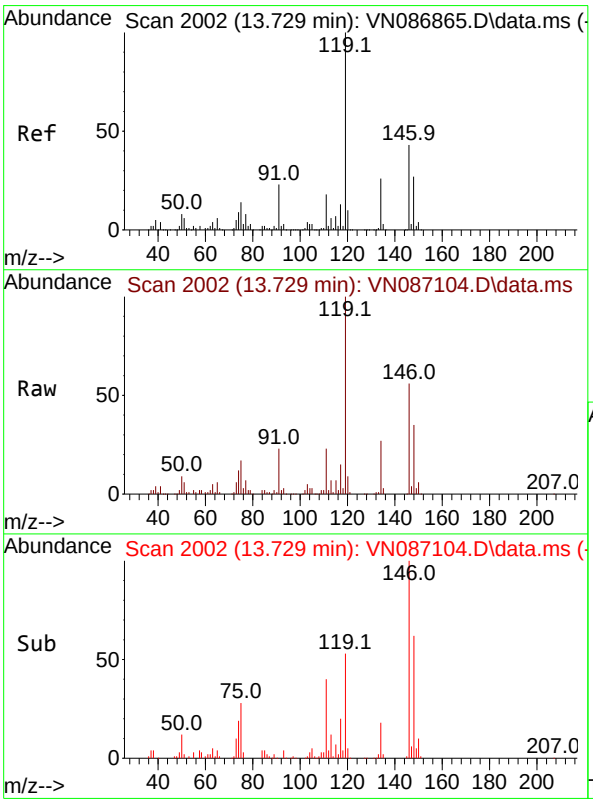
#85
sec-Butylbenzene
Concen: 16.440 ug/l
RT: 13.618 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:105 Resp: 174730

Ion	Ratio	Lower	Upper
105	100		
134	20.0	10.0	30.0

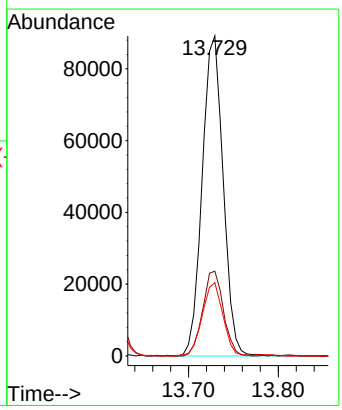


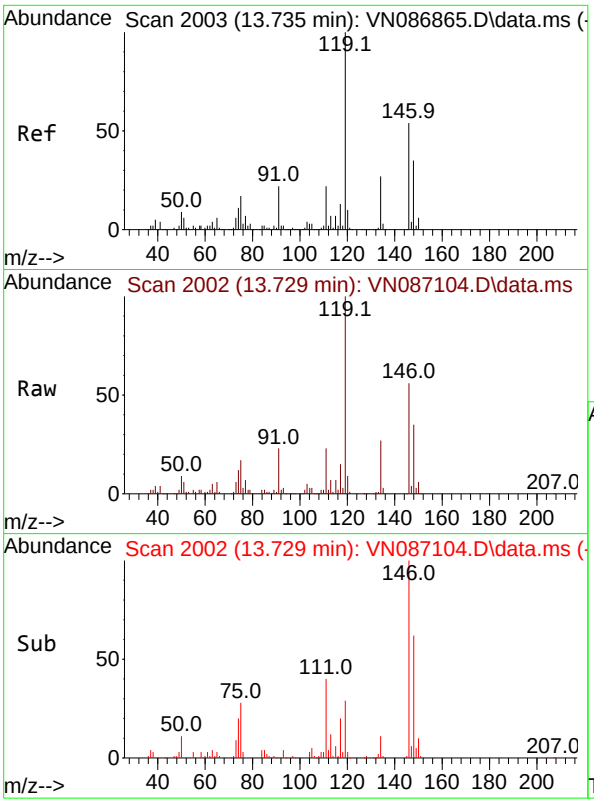


#86
p-Isopropyltoluene
Concen: 16.467 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:119 Resp: 144675

Ion	Ratio	Lower	Upper
119	100		
134	26.2	13.5	40.4
91	22.7	11.5	34.4



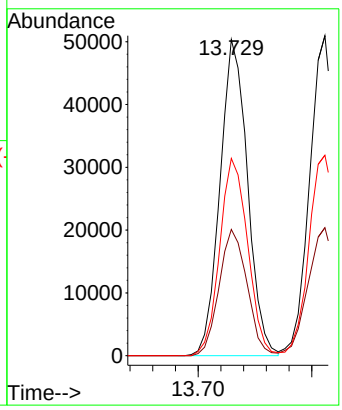


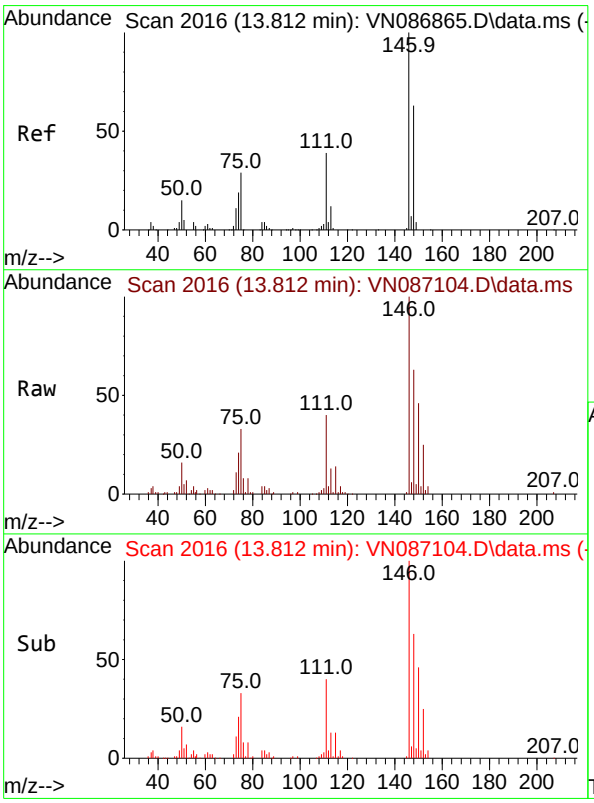
#87
1,3-Dichlorobenzene
Concen: 19.414 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:146 Resp: 84829

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.9	62.8
148	63.4	32.0	96.2

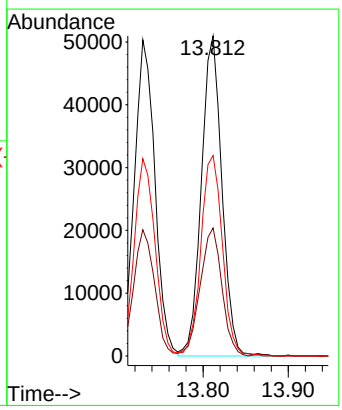


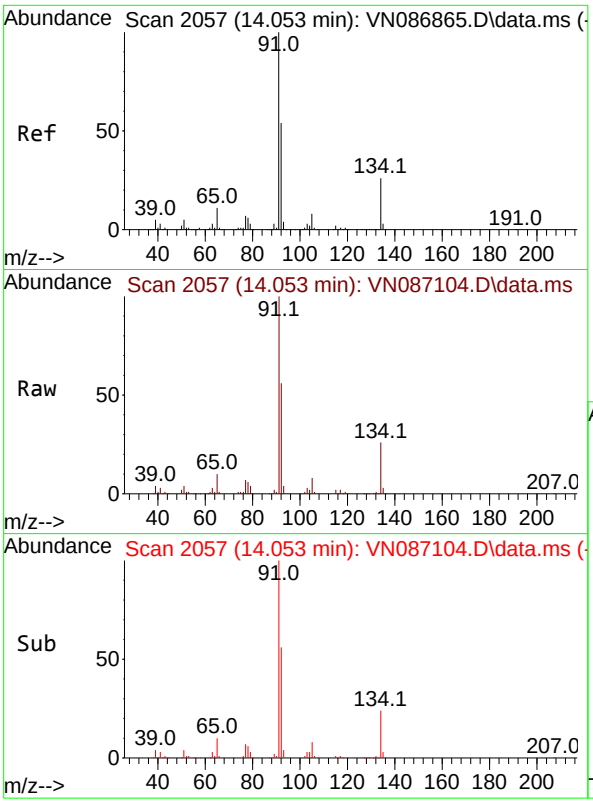


#88
1,4-Dichlorobenzene
Concen: 19.170 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:146 Resp: 85402

Ion	Ratio	Lower	Upper
146	100		
111	42.3	19.9	59.7
148	65.6	31.8	95.4



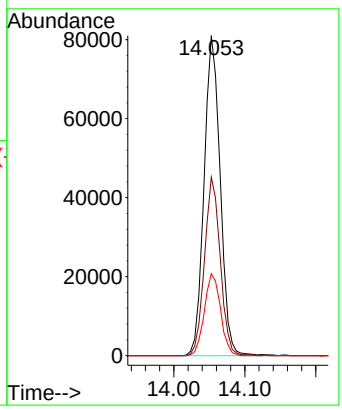


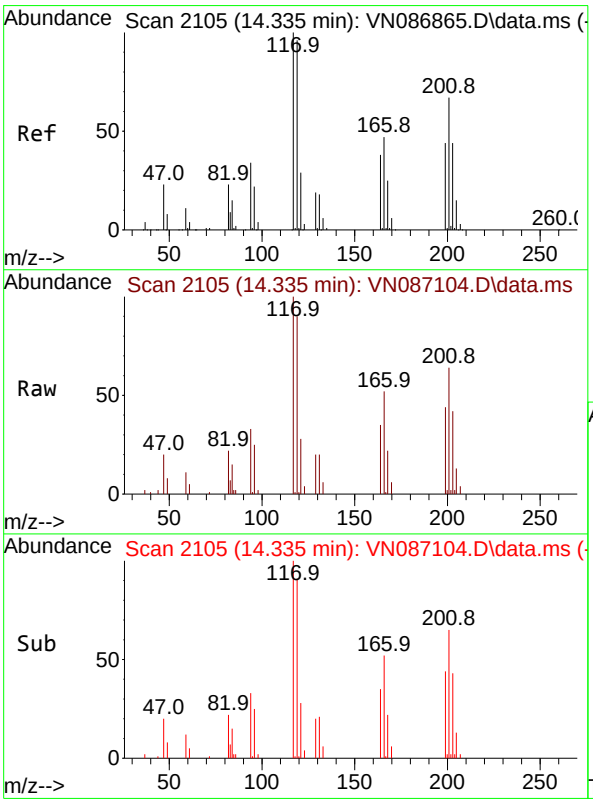
#89
n-Butylbenzene
Concen: 15.056 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion: 91 Resp: 128130

Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.5	82.4
134	25.7	13.0	39.0

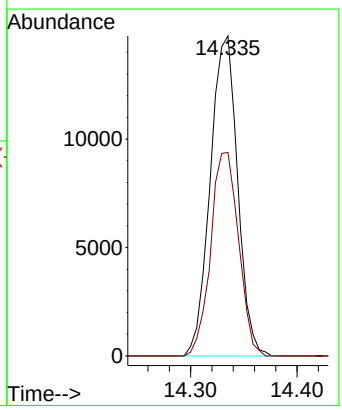


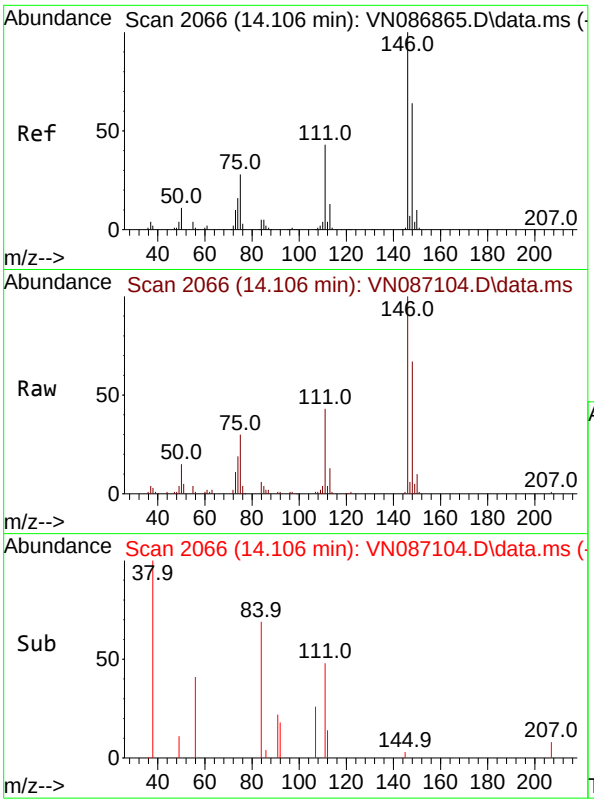


#90
Hexachloroethane
Concen: 17.650 ug/l
RT: 14.335 min Scan# 2105
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:117 Resp: 26285

Ion	Ratio	Lower	Upper
117	100		
201	64.8	33.2	99.6



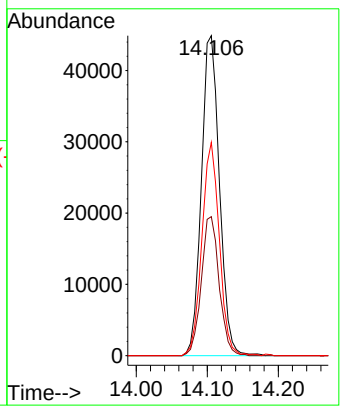


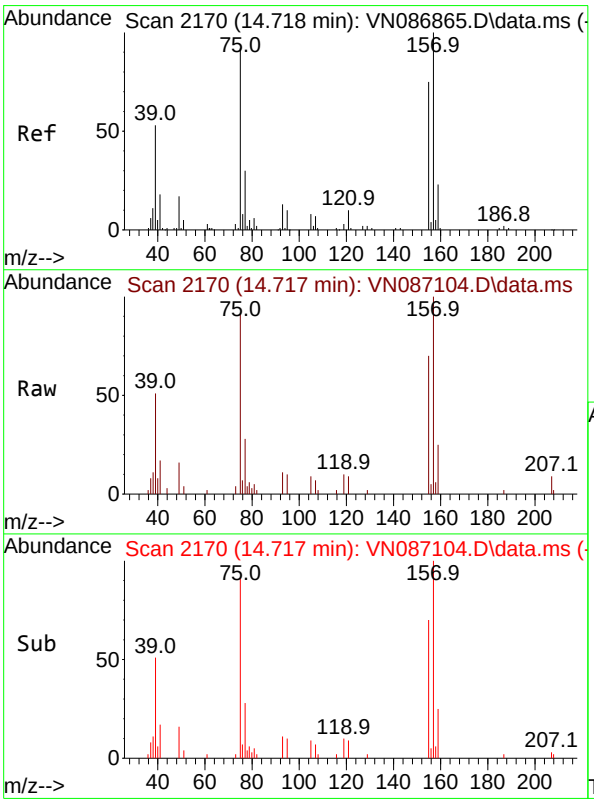
#91
1,2-Dichlorobenzene
Concen: 18.954 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:146 Resp: 79570

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.6	64.6
148	64.3	31.7	95.1

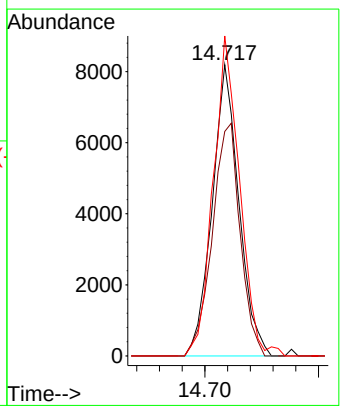


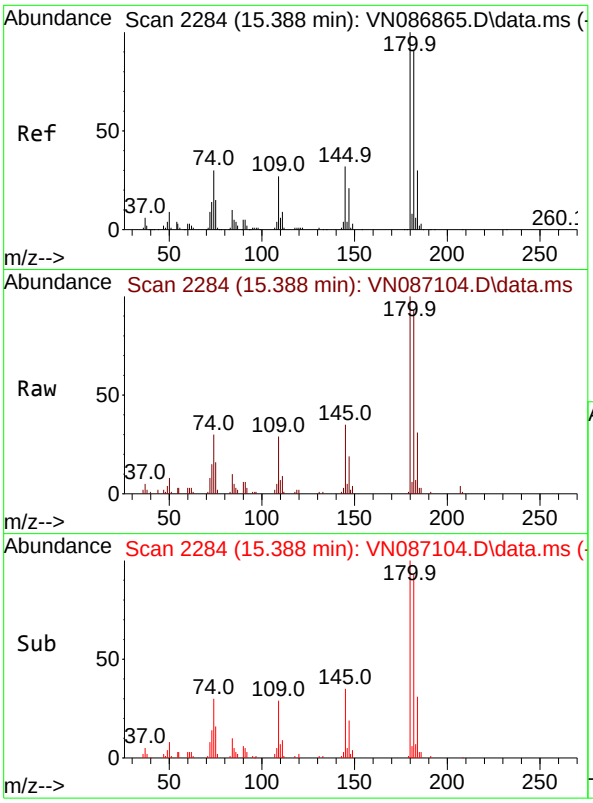


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.070 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion: 75 Resp: 13393

Ion	Ratio	Lower	Upper
75	100		
155	83.0	41.1	123.4
157	108.4	52.7	158.1



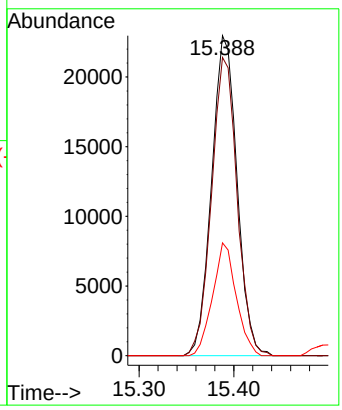


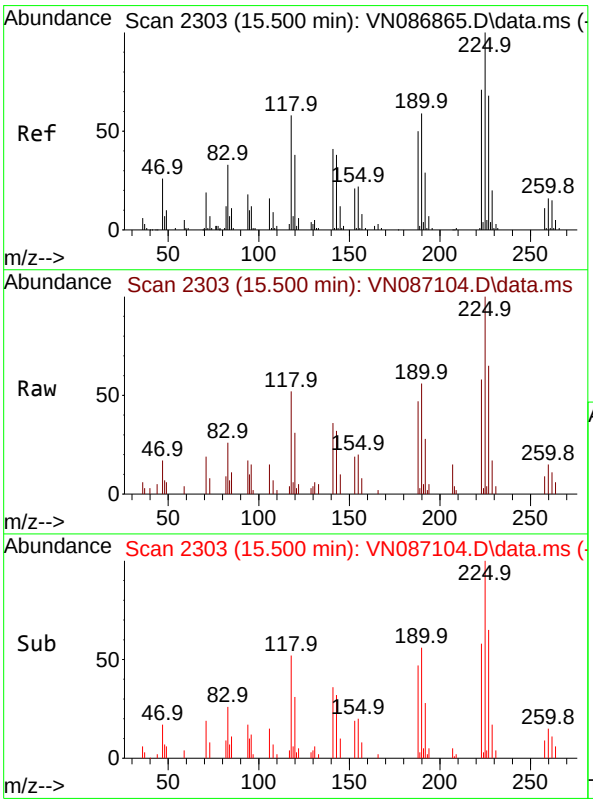
#93
1,2,4-Trichlorobenzene
Concen: 15.961 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:180 Resp: 42786

Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.9	140.7
145	32.8	16.0	47.9

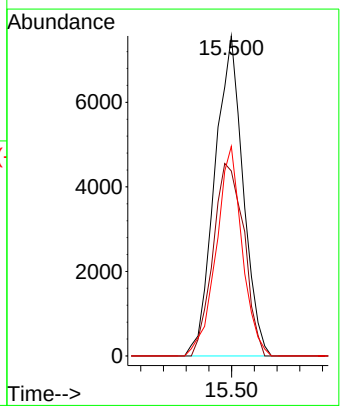


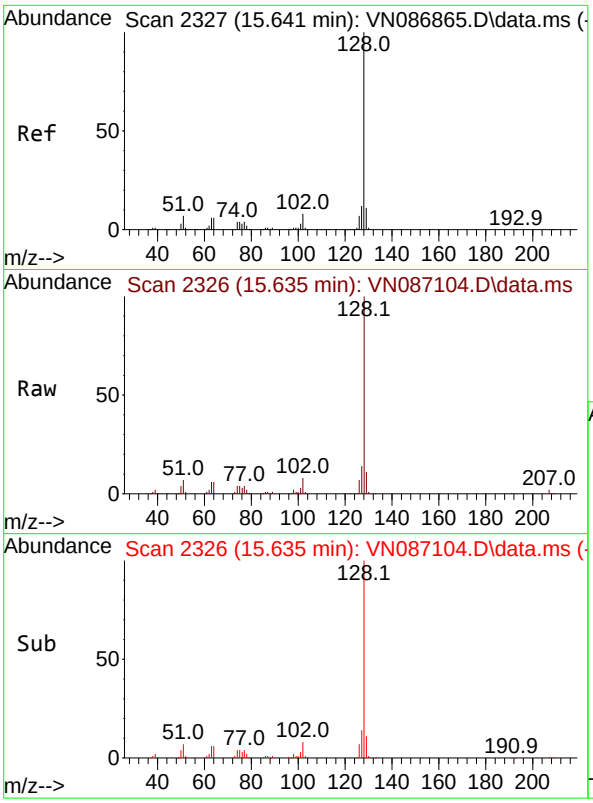


#94
Hexachlorobutadiene
Concen: 13.119 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:225 Resp: 13103

Ion	Ratio	Lower	Upper
225	100		
223	65.7	33.5	100.4
227	60.1	31.1	93.5



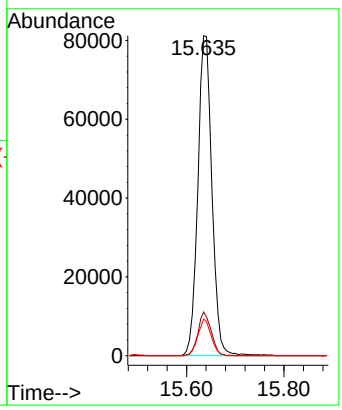


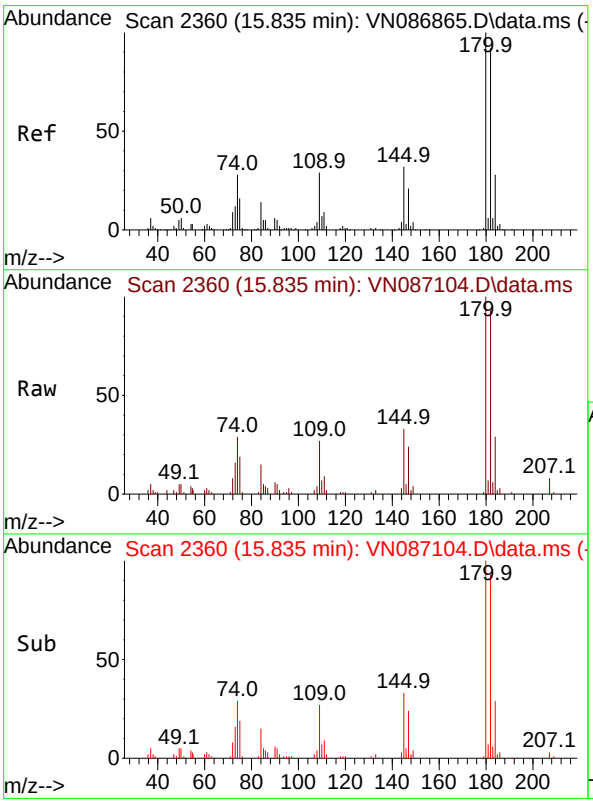
#95
Naphthalene
Concen: 16.368 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Instrument :
MSVOA_N
ClientSampleId :
VN0619WBS01

Tgt Ion:128 Resp: 163318

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.2	15.2
129	10.8	8.8	13.2

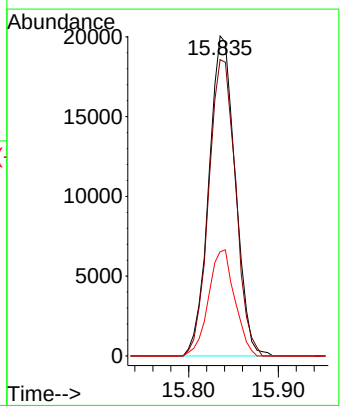




#96
1,2,3-Trichlorobenzene
Concen: 15.372 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087104.D
Acq: 19 Jun 2025 12:22

Tgt Ion:180 Resp: 40941

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.0	141.0
145	32.9	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087118.D
Acq On : 19 Jun 2025 17:31
Operator : JC\MD
Sample : Q2329-11MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Quant Time: Jun 20 01:29:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	180737	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	323339	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	287602	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	145576	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	121021	50.011	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.020%			
35) Dibromofluoromethane	8.177	113	106635	55.650	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.300%			
50) Toluene-d8	10.565	98	389345	51.326	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.660%			
62) 4-Bromofluorobenzene	12.847	95	148165	52.573	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	100332	55.676	ug/l	100
3) Chloromethane	2.395	50	113002	48.561	ug/l	97
4) Vinyl Chloride	2.553	62	143221	59.664	ug/l	100
5) Bromomethane	2.983	94	68685	51.131	ug/l	92
6) Chloroethane	3.153	64	92057	59.370	ug/l	94
7) Trichlorofluoromethane	3.524	101	185326	59.091	ug/l	97
8) Diethyl Ether	3.977	74	79694	58.321	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.400	101	113788	57.748	ug/l	99
10) Methyl Iodide	4.618	142	80867	31.659	ug/l	99
11) Tert butyl alcohol	5.541	59	171497	261.186	ug/l	99
12) 1,1-Dichloroethene	4.365	96	117837	58.577	ug/l	98
13) Acrolein	4.194	56	52266	251.473	ug/l	99
14) Allyl chloride	5.047	41	169252	50.732	ug/l	94
15) Acrylonitrile	5.736	53	413603	269.496	ug/l	99
16) Acetone	4.442	43	314890	245.380	ug/l	98
17) Carbon Disulfide	4.736	76	333594	59.951	ug/l	99
18) Methyl Acetate	5.047	43	165839	44.346	ug/l	98
19) Methyl tert-butyl Ether	5.818	73	409286	56.192	ug/l	100
20) Methylene Chloride	5.300	84	132585	55.186	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	127413	56.928	ug/l	94
22) Diisopropyl ether	6.683	45	374500	53.253	ug/l	98
23) Vinyl Acetate	6.618	43	1542168	259.551	ug/l	97
24) 1,1-Dichloroethane	6.583	63	230943	57.065	ug/l	99
25) 2-Butanone	7.494	43	519481	249.041	ug/l	97
26) 2,2-Dichloropropane	7.500	77	172985	54.949	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	153827	57.469	ug/l	96
28) Bromochloromethane	7.824	49	95053	47.769	ug/l	92
29) Tetrahydrofuran	7.847	42	344998	253.893	ug/l	95
30) Chloroform	7.977	83	228488	56.534	ug/l	97
31) Cyclohexane	8.265	56	200388	51.057	ug/l	93
32) 1,1,1-Trichloroethane	8.177	97	193854	56.394	ug/l	99
36) 1,1-Dichloropropene	8.377	75	167705	58.734	ug/l	100
37) Ethyl Acetate	7.571	43	189405	52.109	ug/l	99
38) Carbon Tetrachloride	8.371	117	163068	58.171	ug/l	98
39) Methylcyclohexane	9.606	83	190684	48.745	ug/l	97
40) Benzene	8.612	78	535976	57.404	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087118.D
Acq On : 19 Jun 2025 17:31
Operator : JC\MD
Sample : Q2329-11MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Quant Time: Jun 20 01:29:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.782	41	103692	50.796	ug/l		93
42) 1,2-Dichloroethane	8.677	62	158483	55.962	ug/l		100
43) Isopropyl Acetate	8.694	43	291879	50.032	ug/l		96
44) Trichloroethene	9.359	130	215352	97.270	ug/l		98
45) 1,2-Dichloropropane	9.624	63	128642	56.632	ug/l		99
46) Dibromomethane	9.712	93	88375	58.573	ug/l		99
47) Bromodichloromethane	9.888	83	178318	57.442	ug/l		98
48) Methyl methacrylate	9.682	41	136295	50.759	ug/l		94
49) 1,4-Dioxane	9.706	88	57592	1178.993	ug/l	#	96
51) 4-Methyl-2-Pentanone	10.447	43	944616	268.964	ug/l		97
52) Toluene	10.629	92	334253	58.579	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	198096	57.068	ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	209243	56.337	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	126737	57.724	ug/l		99
56) Ethyl methacrylate	10.876	69	209456	59.895	ug/l		93
57) 1,3-Dichloropropane	11.165	76	219270	57.571	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.200	63	1002	0.480	ug/l	#	46
59) 2-Hexanone	11.200	43	632533	279.606	ug/l		93
60) Dibromochloromethane	11.359	129	138037	60.343	ug/l		99
61) 1,2-Dibromoethane	11.470	107	132627	58.934	ug/l		98
64) Tetrachloroethene	11.106	164	104229	57.264	ug/l		95
65) Chlorobenzene	11.894	112	362505	57.149	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	118036	57.889	ug/l		99
67) Ethyl Benzene	11.965	91	607039	55.559	ug/l		99
68) m/p-Xylenes	12.070	106	486047	116.211	ug/l		98
69) o-Xylene	12.394	106	235034	58.675	ug/l		96
70) Styrene	12.412	104	398866	58.190	ug/l		99
71) Bromoform	12.576	173	91748	60.729	ug/l	#	99
73) Isopropylbenzene	12.694	105	574771	54.196	ug/l		99
74) N-amyl acetate	12.512	43	169068	45.621	ug/l		95
75) 1,1,2,2-Tetrachloroethane	12.935	83	199250	55.457	ug/l		99
76) 1,2,3-Trichloropropane	12.994	75	260001	75.136	ug/l		71
77) Bromobenzene	12.982	156	139561	57.381	ug/l		96
78) n-propylbenzene	13.035	91	675516	52.413	ug/l		99
79) 2-Chlorotoluene	13.123	91	407496	52.721	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	475753	54.335	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.735	75	79351	52.787	ug/l		91
82) 4-Chlorotoluene	13.217	91	419800	53.678	ug/l		98
83) tert-Butylbenzene	13.435	119	407771	50.876	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	480566	54.733	ug/l		100
85) sec-Butylbenzene	13.612	105	576942	49.567	ug/l		100
86) p-Isopropyltoluene	13.729	119	486569	50.571	ug/l		98
87) 1,3-Dichlorobenzene	13.729	146	268884	56.190	ug/l		98
88) 1,4-Dichlorobenzene	13.812	146	271234	55.596	ug/l		100
89) n-Butylbenzene	14.053	91	422443	45.329	ug/l		99
90) Hexachloroethane	14.329	117	86124	52.807	ug/l		100
91) 1,2-Dichlorobenzene	14.106	146	258146	56.151	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	44690	52.011	ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	141709	48.271	ug/l		99
94) Hexachlorobutadiene	15.494	225	42186	38.570	ug/l		98
95) Naphthalene	15.635	128	577711	52.869	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	137332	47.084	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087118.D
Acq On : 19 Jun 2025 17:31
Operator : JC\MD
Sample : Q2329-11MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Quant Time: Jun 20 01:29:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

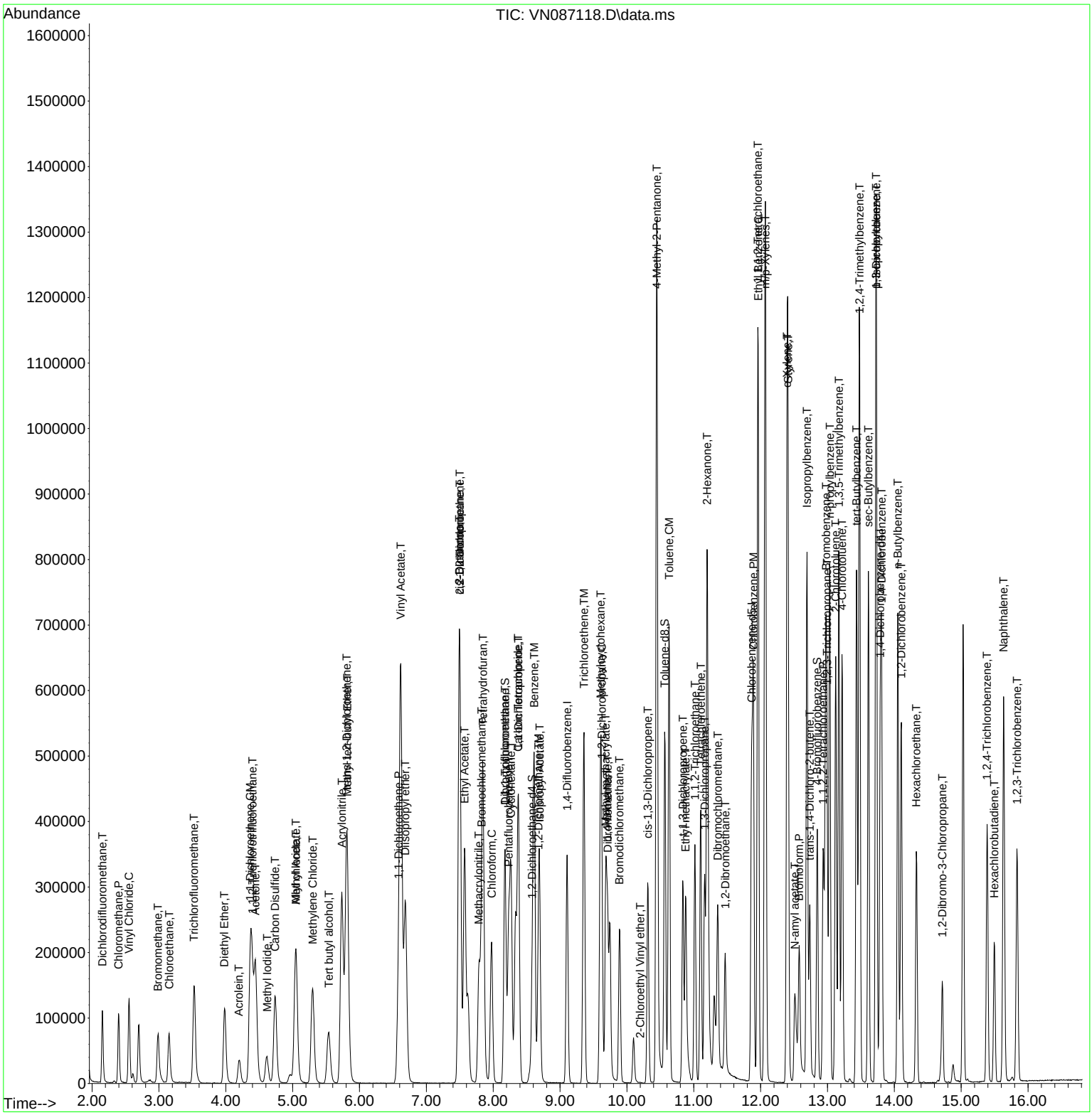
(#) = qualifier out of range (m) = manual integration (+) = signals summed

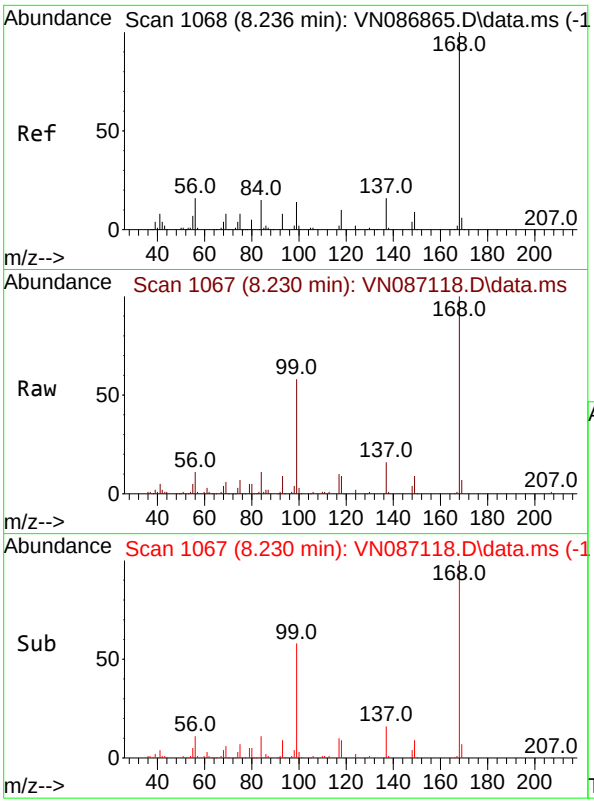
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087118.D
Acq On : 19 Jun 2025 17:31
Operator : JC\MD
Sample : Q2329-11MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Quant Time: Jun 20 01:29:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



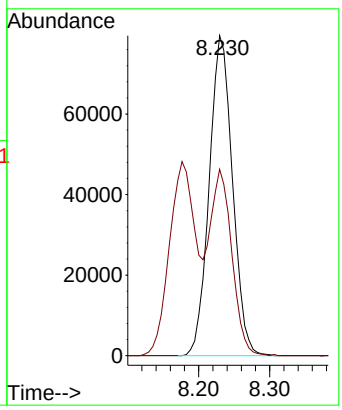


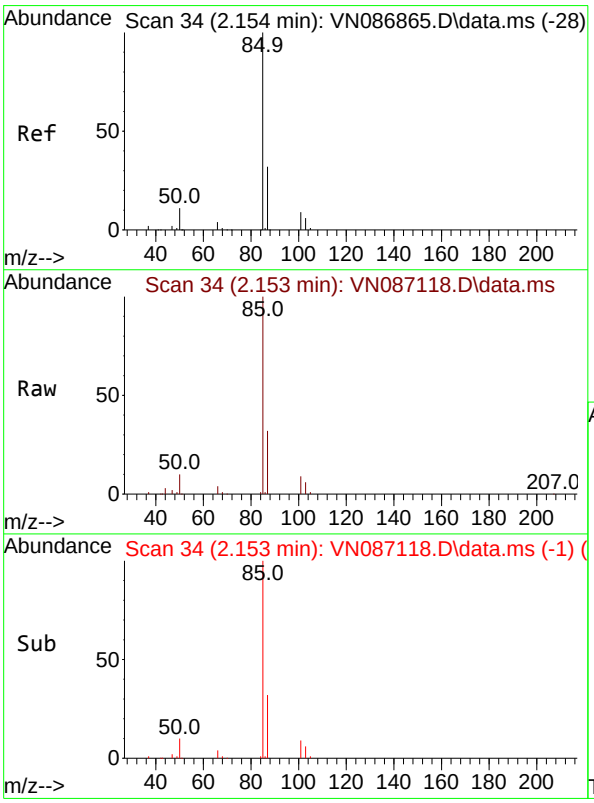
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:168 Resp: 180737

Ion	Ratio	Lower	Upper
168	100		
99	58.3	49.1	73.7

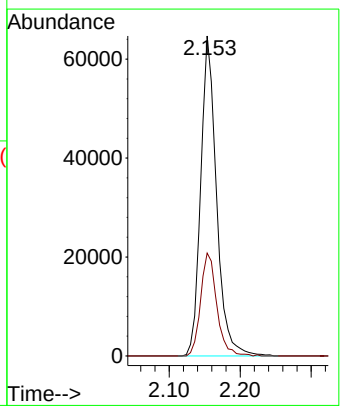


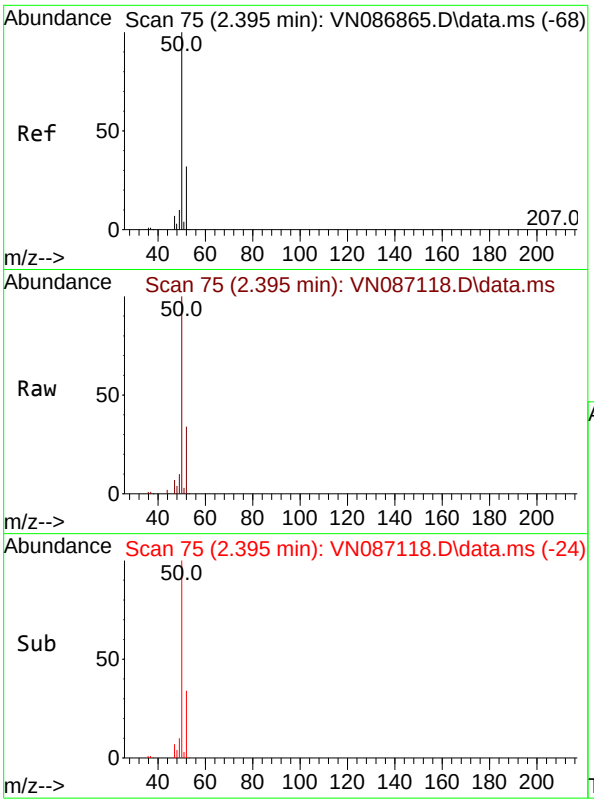


#2
Dichlorodifluoromethane
Concen: 55.676 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 85 Resp: 100332

Ion	Ratio	Lower	Upper
85	100		
87	32.1	16.2	48.6



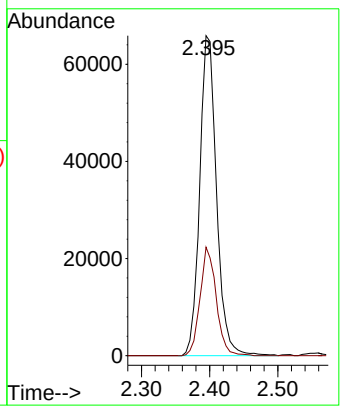


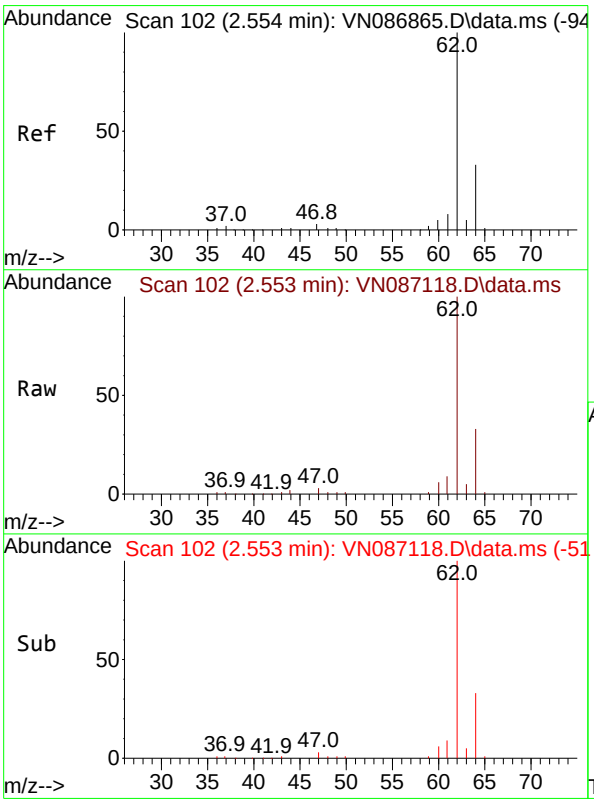
#3
Chloromethane
Concen: 48.561 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 50 Resp: 113002

Ion	Ratio	Lower	Upper
50	100		
52	33.9	25.7	38.5

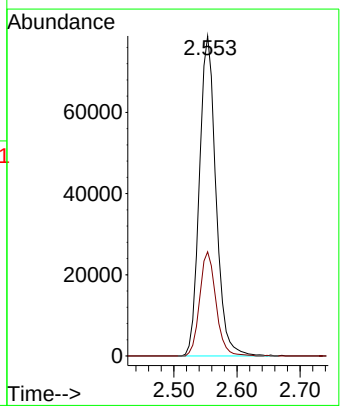


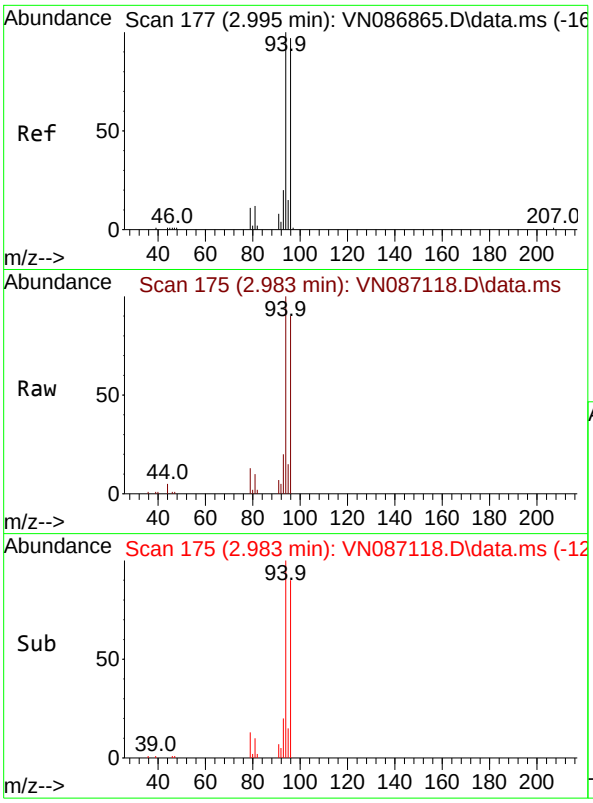


#4
Vinyl Chloride
Concen: 59.664 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 62 Resp: 143221

Ion	Ratio	Lower	Upper
62	100		
64	32.6	26.0	39.0



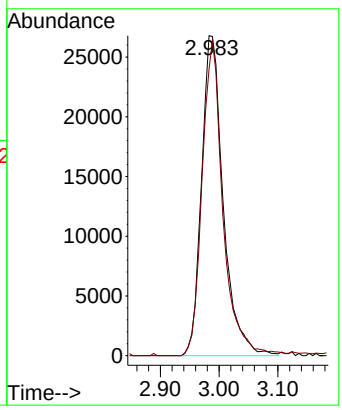


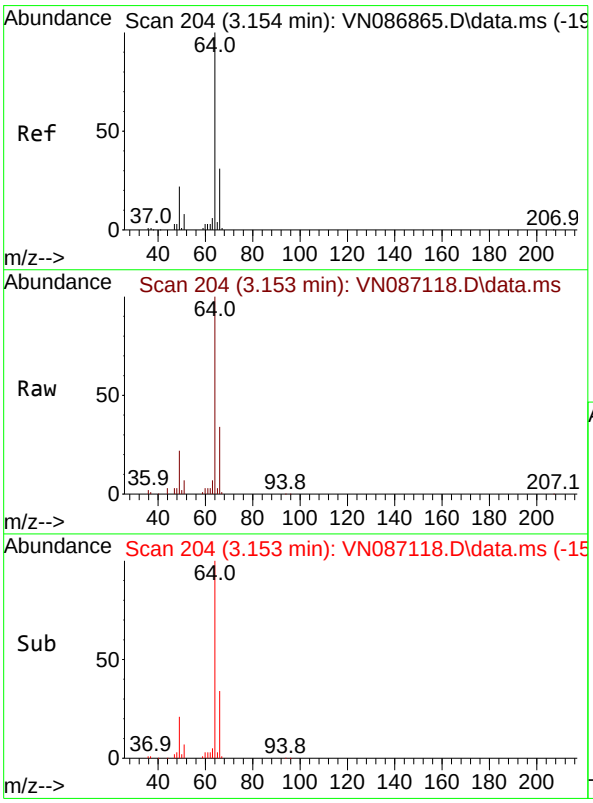
#5
Bromomethane
Concen: 51.131 ug/l
RT: 2.983 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 94 Resp: 68685

Ion	Ratio	Lower	Upper
94	100		
96	89.7	77.9	116.9

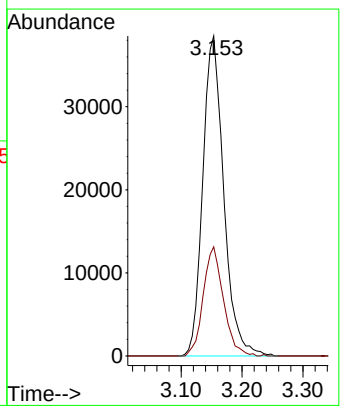


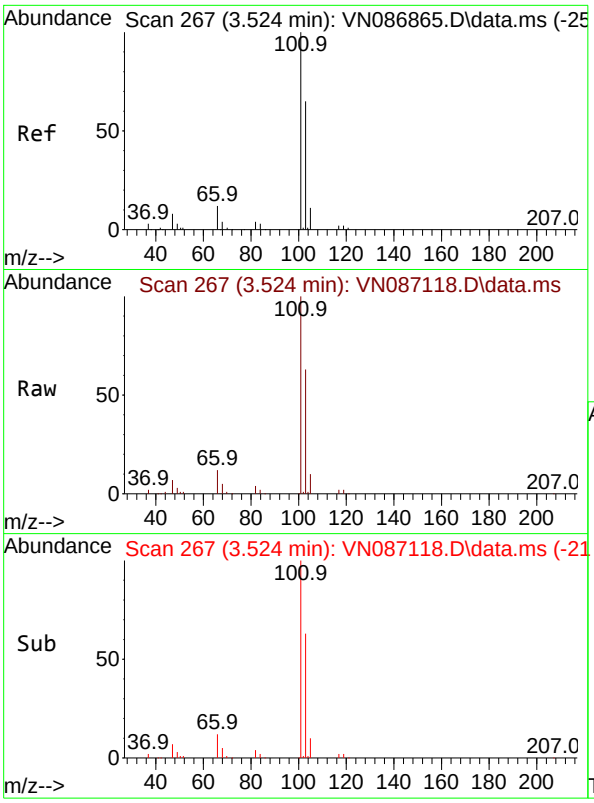


#6
Chloroethane
Concen: 59.370 ug/l
RT: 3.153 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 64 Resp: 92057

Ion	Ratio	Lower	Upper
64	100		
66	34.1	24.6	36.8



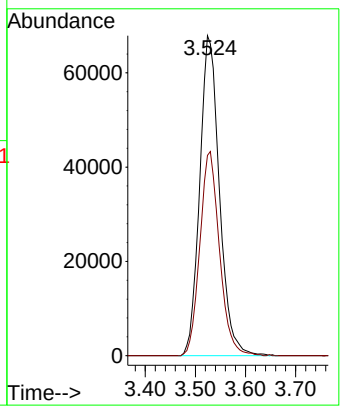


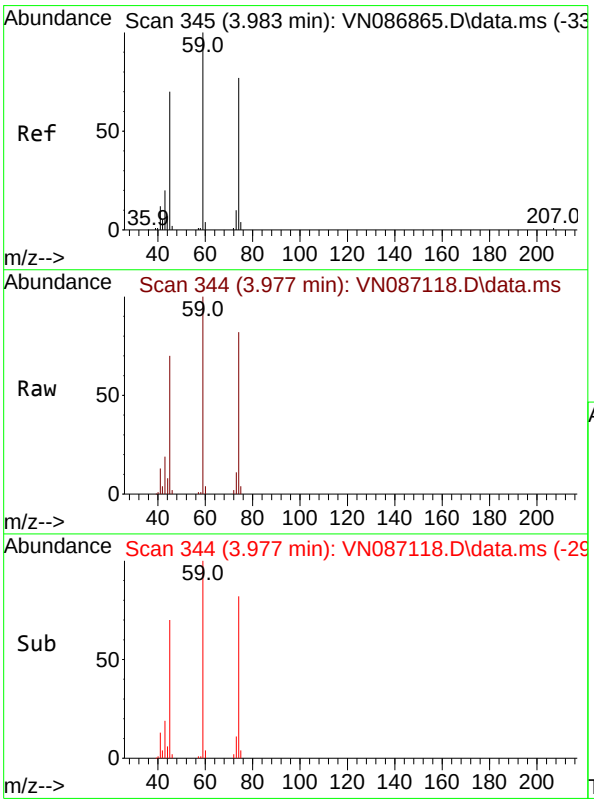
#7
Trichlorofluoromethane
Concen: 59.091 ug/l
RT: 3.524 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:101 Resp: 185326

Ion	Ratio	Lower	Upper
101	100		
103	62.6	52.2	78.2

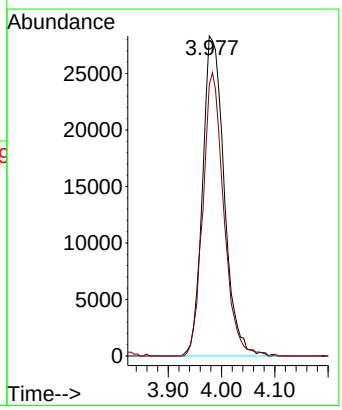


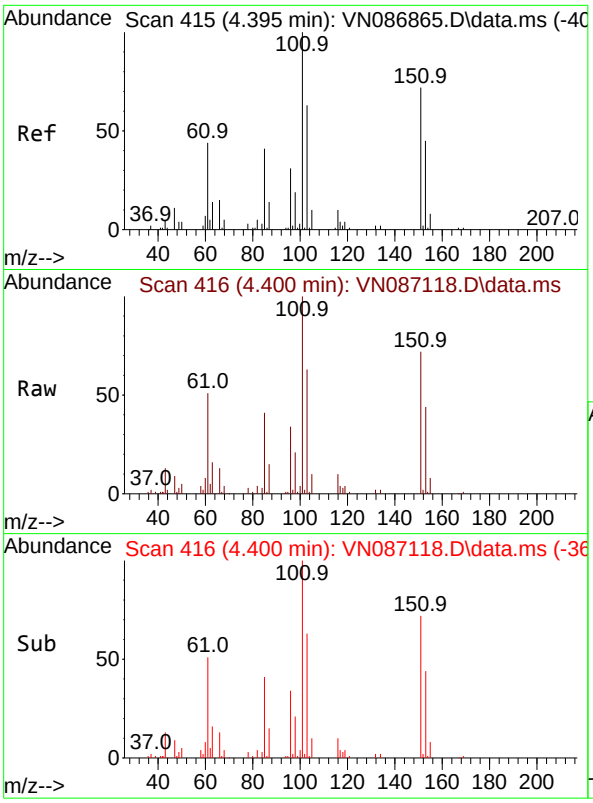


#8
Diethyl Ether
Concen: 58.321 ug/l
RT: 3.977 min Scan# 344
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 74 Resp: 79694

Ion	Ratio	Lower	Upper
74	100		
45	85.2	45.5	136.5



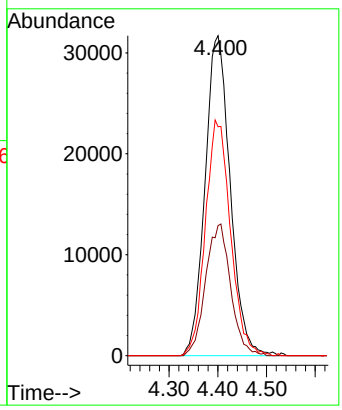


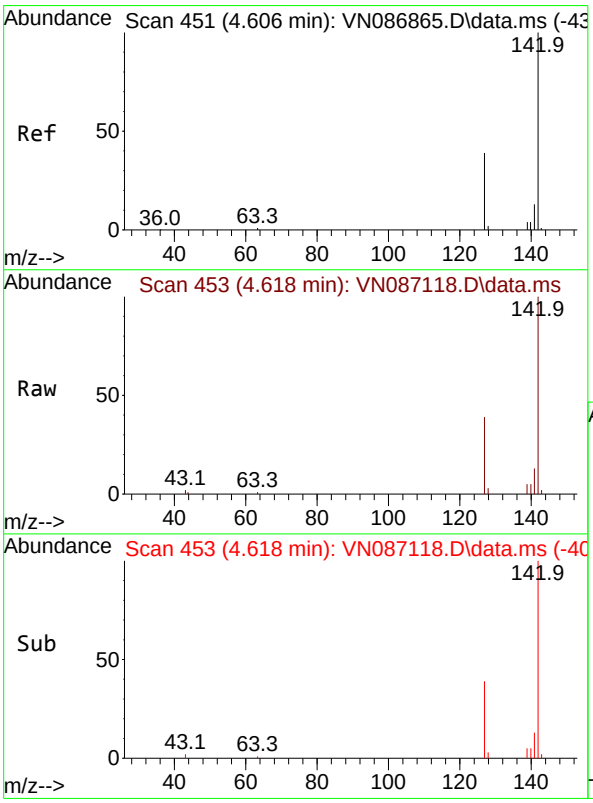
#9
1,1,2-Trichlorotrifluoroethane
Concen: 57.748 ug/l
RT: 4.400 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:101 Resp: 113788

Ion	Ratio	Lower	Upper
101	100		
85	40.9	33.8	50.8
151	73.4	58.7	88.1

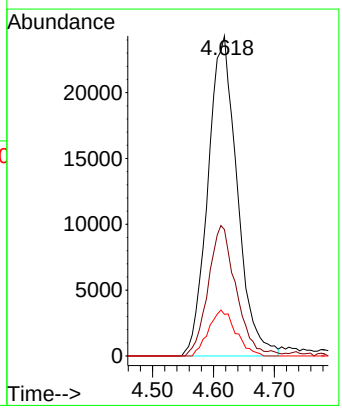


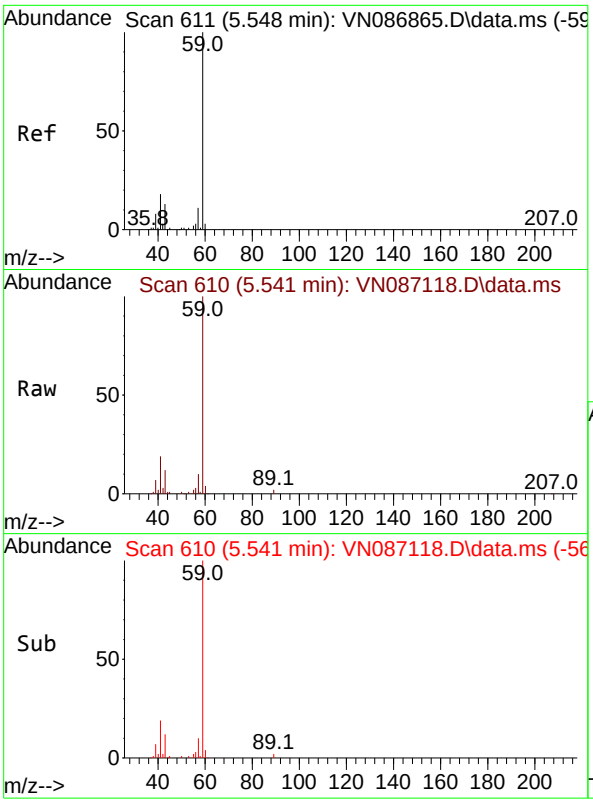


#10
Methyl Iodide
Concen: 31.659 ug/l
RT: 4.618 min Scan# 453
Delta R.T. 0.012 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:142 Resp: 80867

Ion	Ratio	Lower	Upper
142	100		
127	39.5	30.9	46.3
141	13.0	10.4	15.6



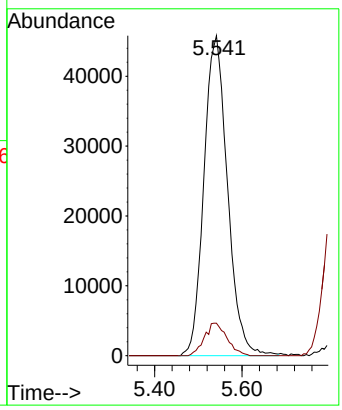


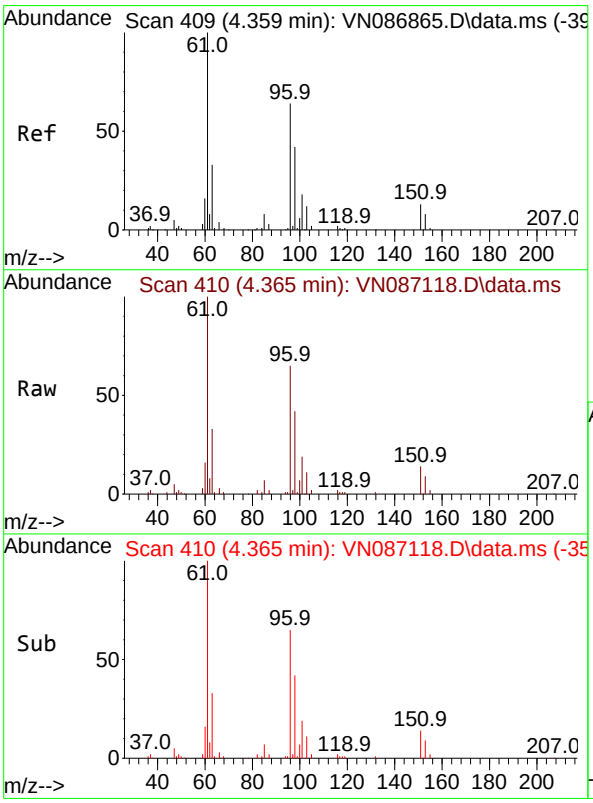
#11
Tert butyl alcohol
Concen: 261.186 ug/l
RT: 5.541 min Scan# 61
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 59 Resp: 171497

Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.1	12.1

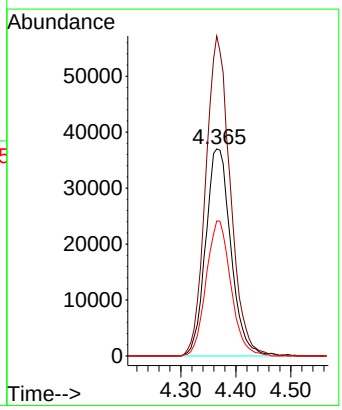


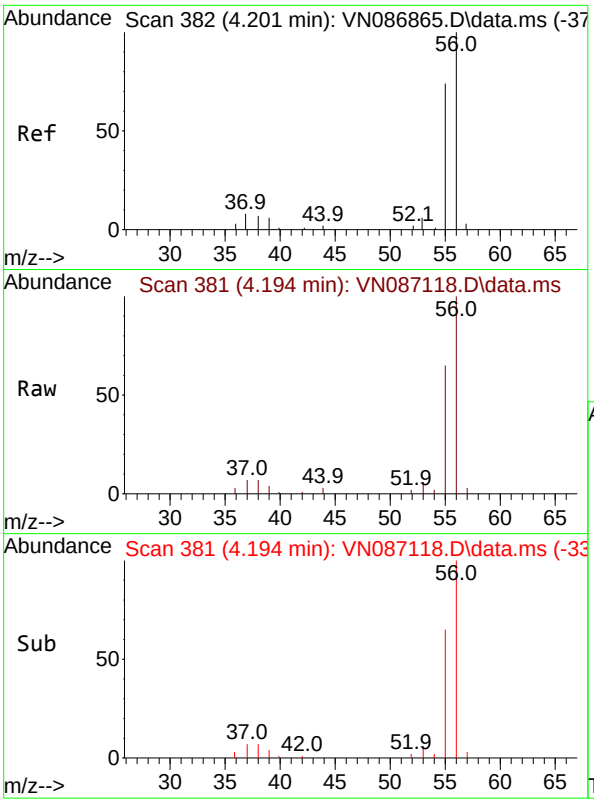


#12
1,1-Dichloroethene
Concen: 58.577 ug/l
RT: 4.365 min Scan# 410
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 96 Resp: 117837

Ion	Ratio	Lower	Upper
96	100		
61	154.5	125.8	188.6
98	65.2	52.5	78.7



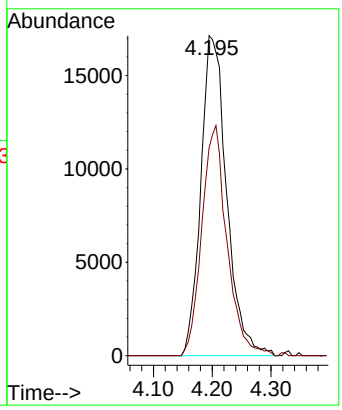


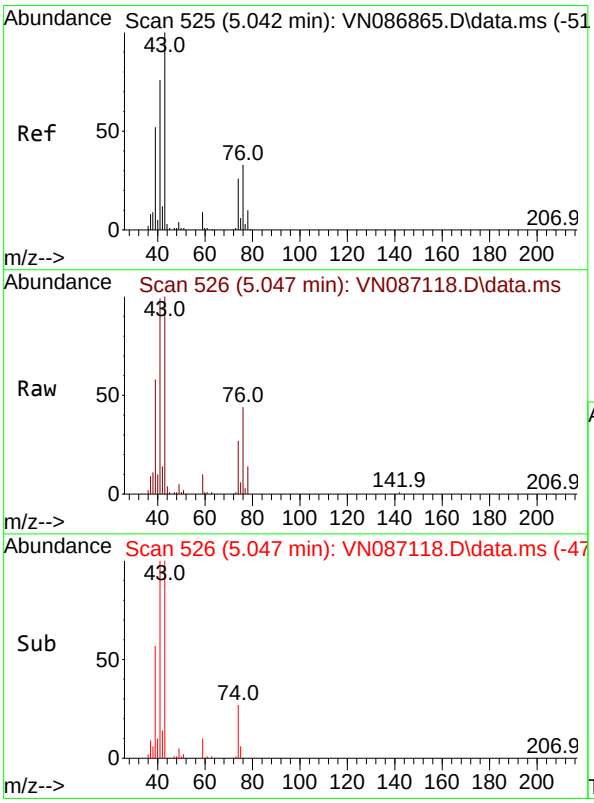
#13
Acrolein
Concen: 251.473 ug/l
RT: 4.194 min Scan# 3
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 56 Resp: 52266

Ion	Ratio	Lower	Upper
56	100		
55	70.1	55.6	83.4

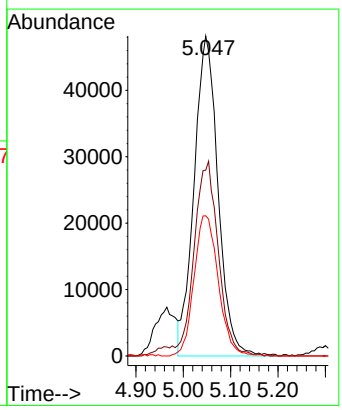


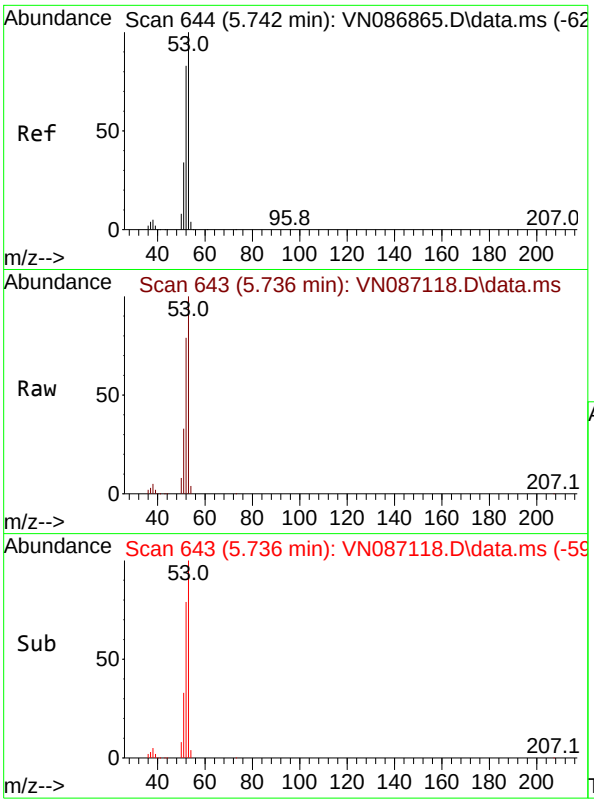


#14
Allyl chloride
Concen: 50.732 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 41 Resp: 169252

Ion	Ratio	Lower	Upper
41	100		
39	61.1	51.3	76.9
76	44.5	31.4	47.0



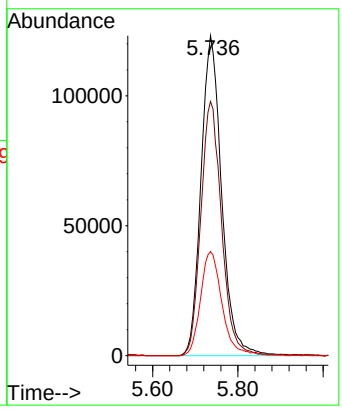


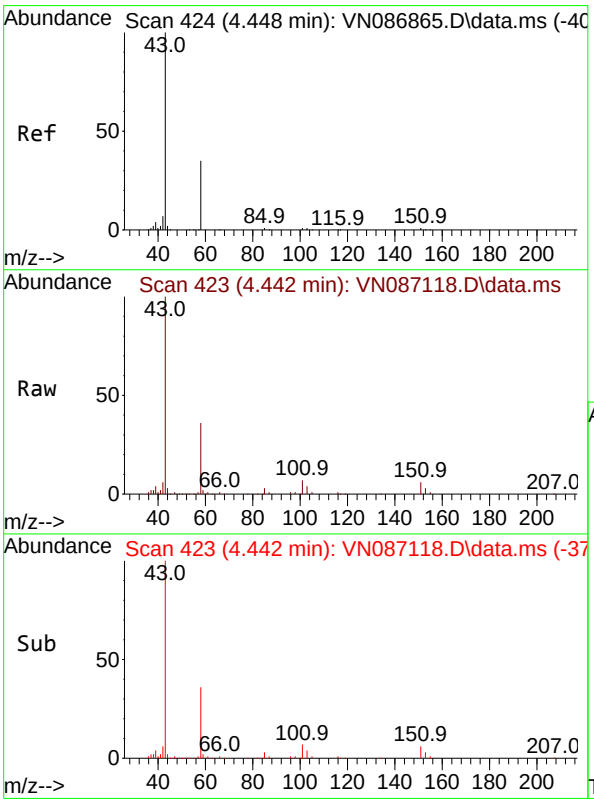
#15
Acrylonitrile
Concen: 269.496 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 53 Resp: 413603

Ion	Ratio	Lower	Upper
53	100		
52	79.9	65.0	97.6
51	33.8	27.2	40.8

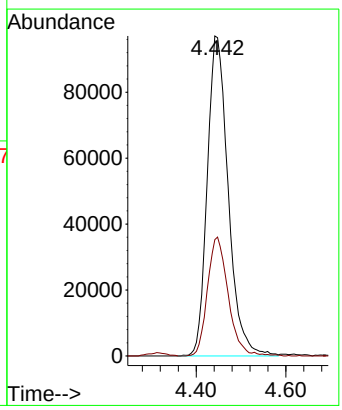


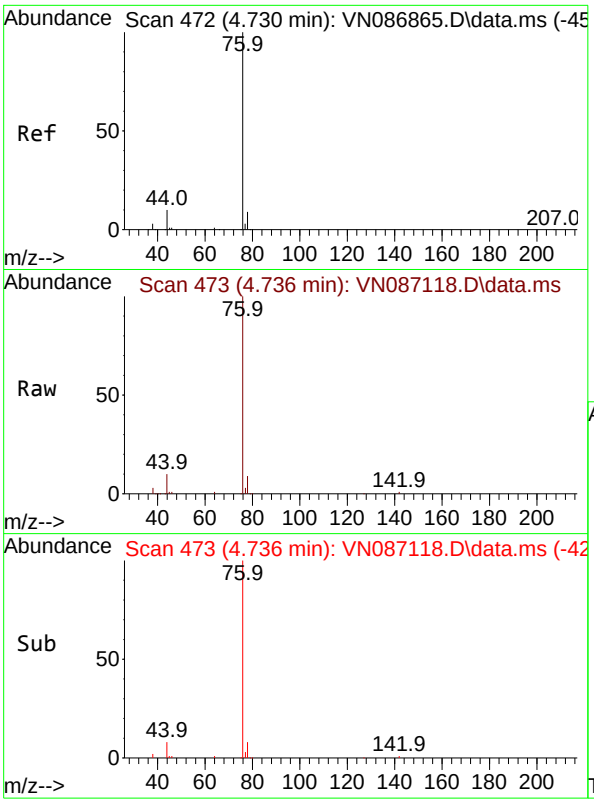


#16
Acetone
Concen: 245.380 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 43 Resp: 314890

Ion	Ratio	Lower	Upper
43	100		
58	36.4	28.0	42.0



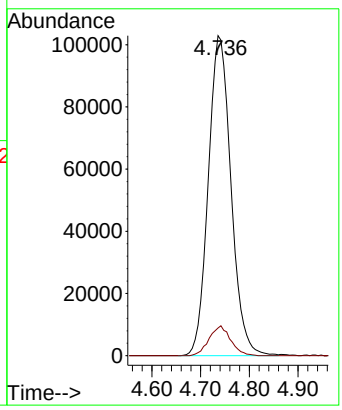


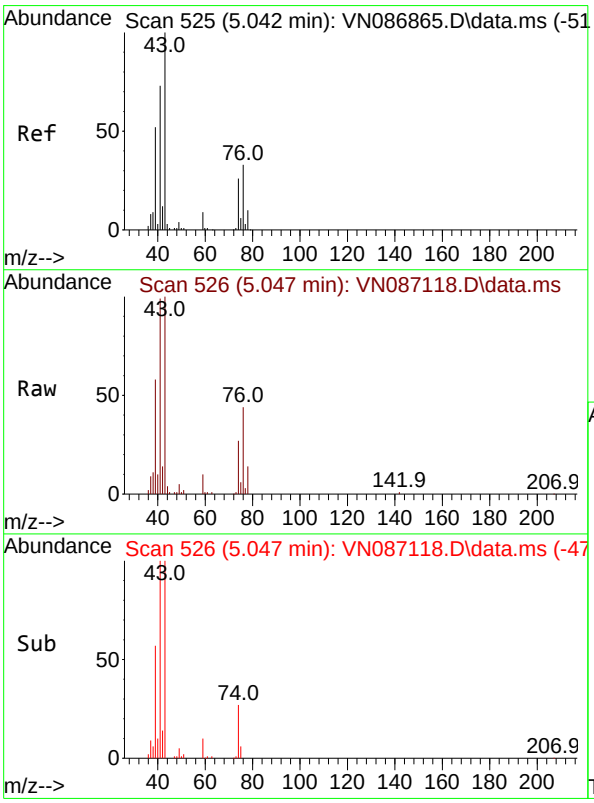
#17
Carbon Disulfide
Concen: 59.951 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 76 Resp: 333594

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.3	10.9

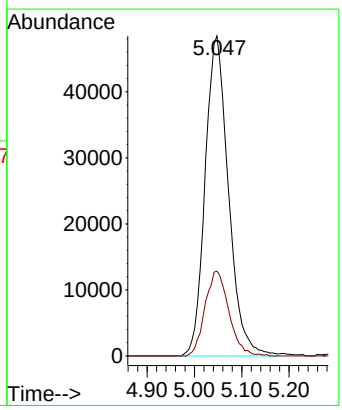


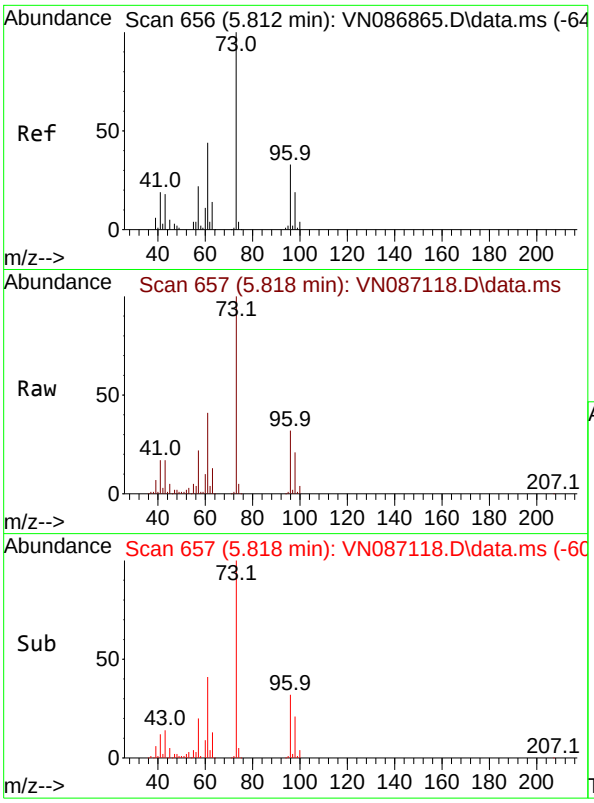


#18
Methyl Acetate
Concen: 44.346 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 43 Resp: 165839

Ion	Ratio	Lower	Upper
43	100		
74	27.1	20.7	31.1



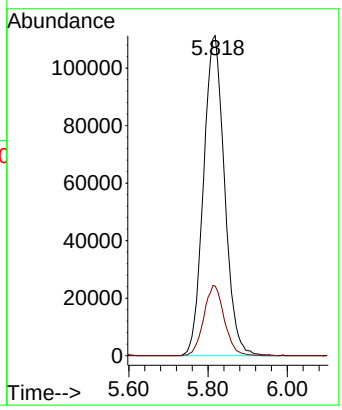


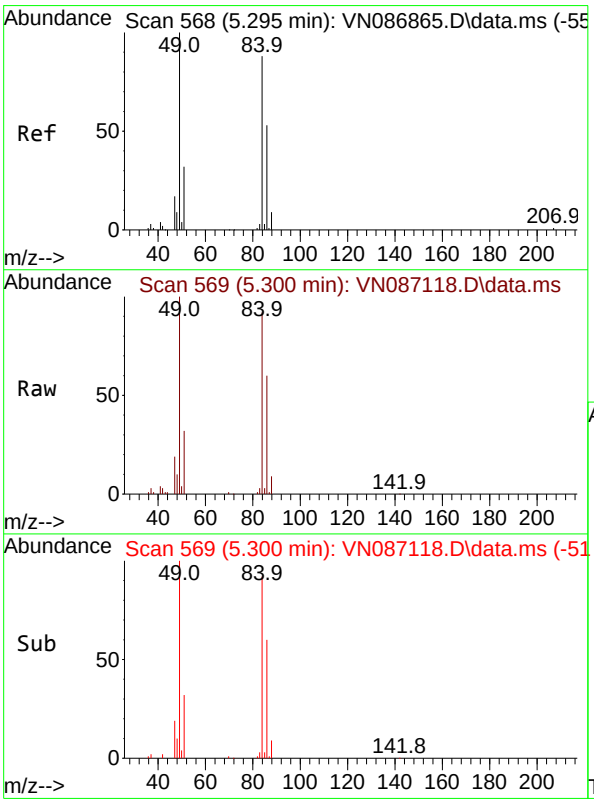
#19
Methyl tert-butyl Ether
Concen: 56.192 ug/l
RT: 5.818 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 73 Resp: 409286

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.4	26.2

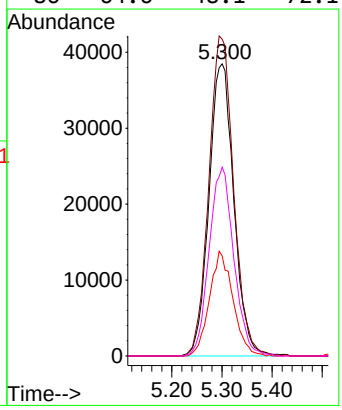


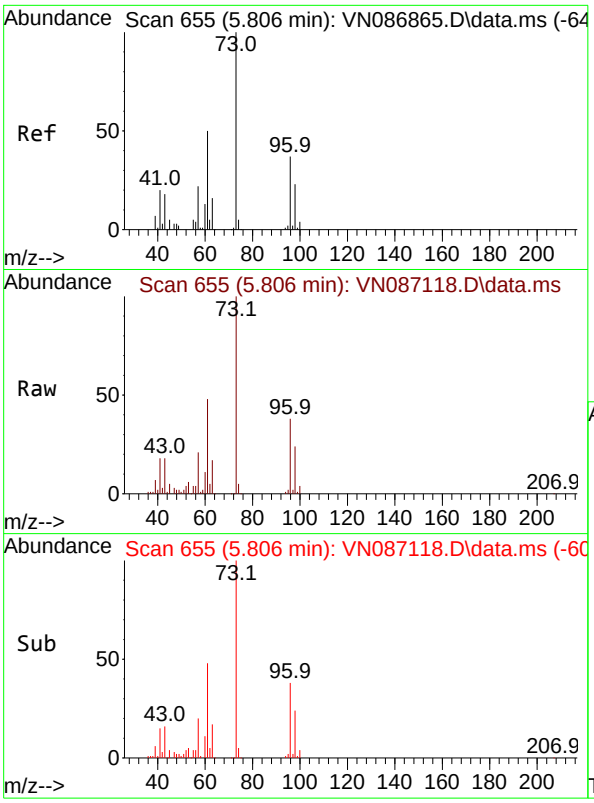


#20
Methylene Chloride
Concen: 55.186 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 84 Resp: 132585

Ion	Ratio	Lower	Upper
84	100		
49	108.4	90.5	135.7
51	34.2	28.5	42.7
86	64.6	48.1	72.1



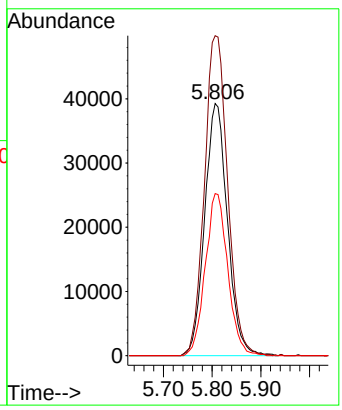


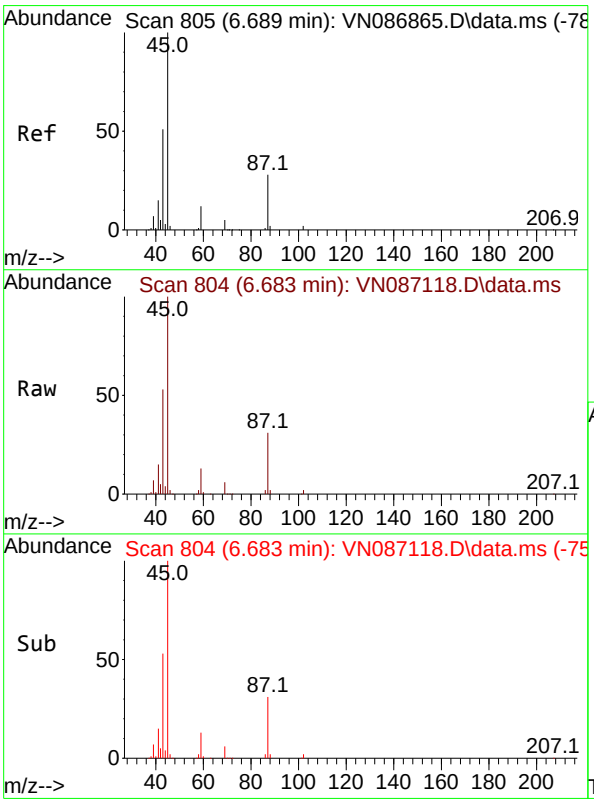
#21
trans-1,2-Dichloroethene
Concen: 56.928 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 96 Resp: 127413

Ion	Ratio	Lower	Upper
96	100		
61	126.9	109.2	163.8
98	64.3	49.8	74.8

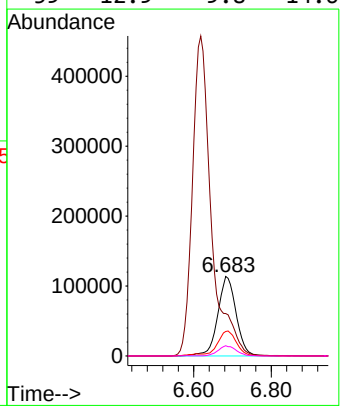


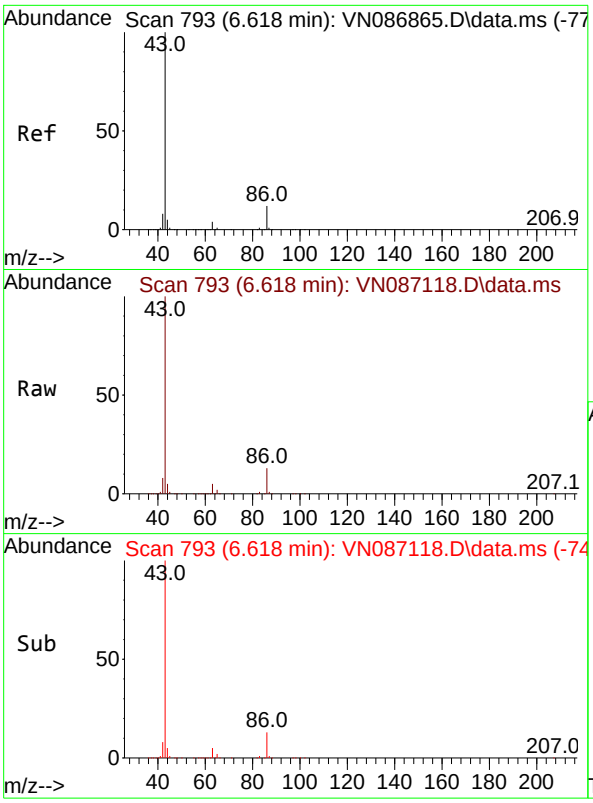


#22
Diisopropyl ether
Concen: 53.253 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 45 Resp: 374500

Ion	Ratio	Lower	Upper
45	100		
43	52.8	41.9	62.9
87	30.8	22.4	33.6
59	12.9	9.8	14.6



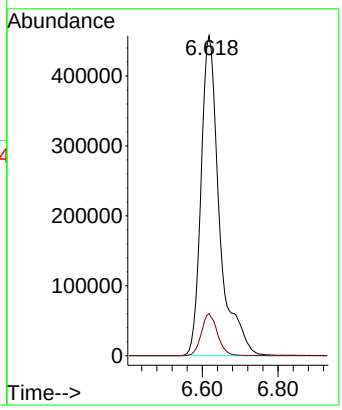


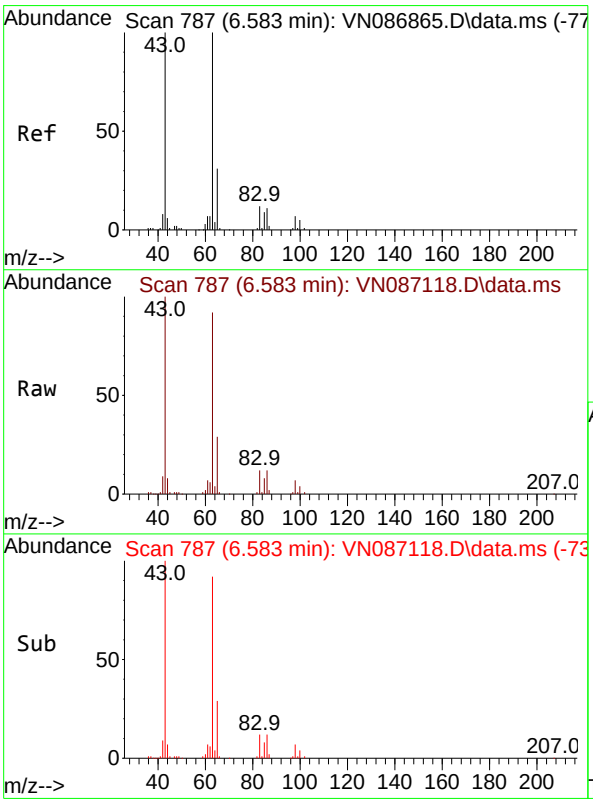
#23
Vinyl Acetate
Concen: 259.551 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 43 Resp: 1542168

Ion	Ratio	Lower	Upper
43	100		
86	13.1	9.5	14.3

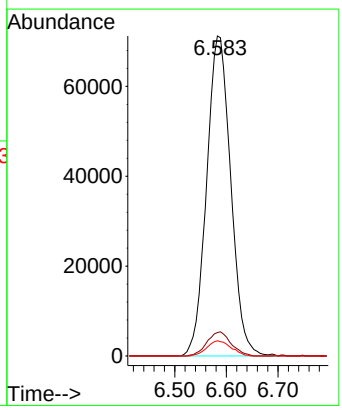


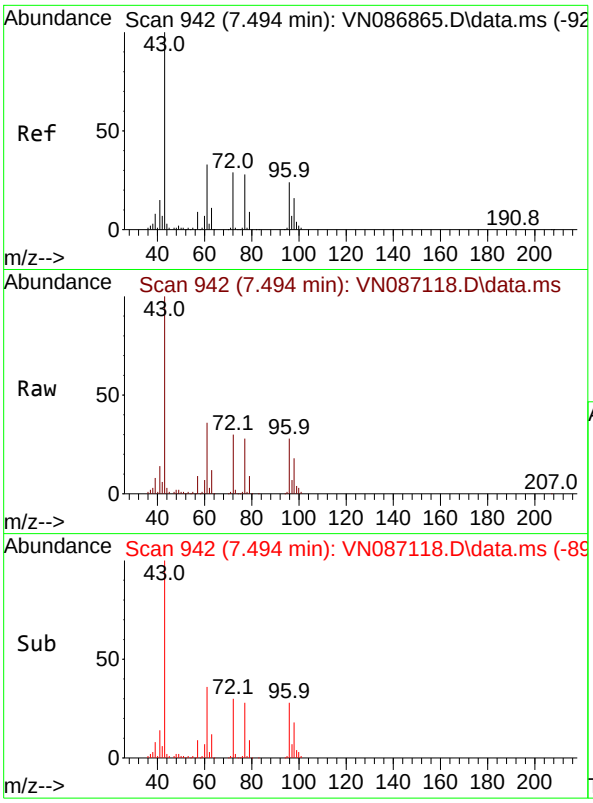


#24
1,1-Dichloroethane
Concen: 57.065 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 63 Resp: 230943

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.6	10.8
100	4.8	2.6	7.8



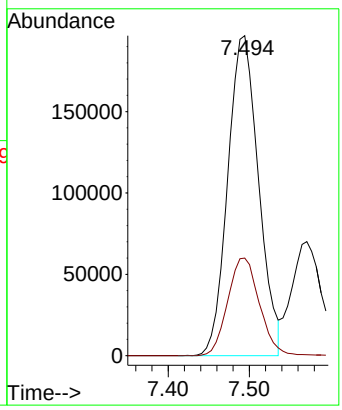


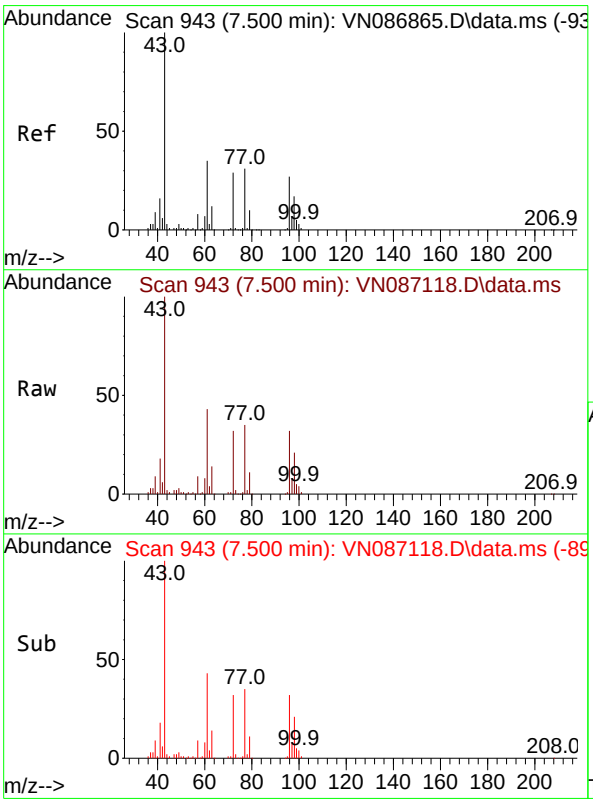
#25
2-Butanone
Concen: 249.041 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 43 Resp: 519481

Ion	Ratio	Lower	Upper
43	100		
72	30.5	23.0	34.6

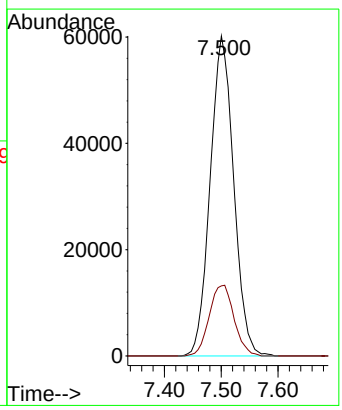


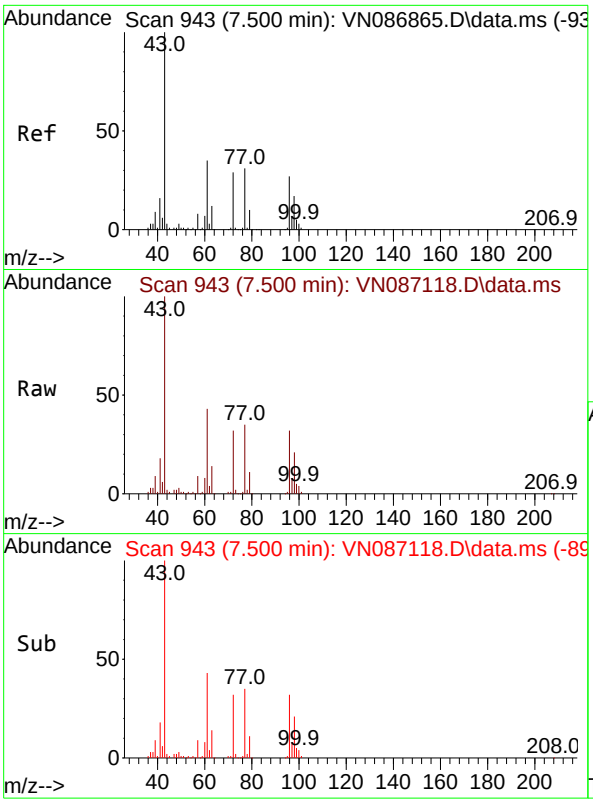


#26
2,2-Dichloropropane
Concen: 54.949 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 77 Resp: 172985

Ion	Ratio	Lower	Upper
77	100		
97	23.3	11.6	34.7



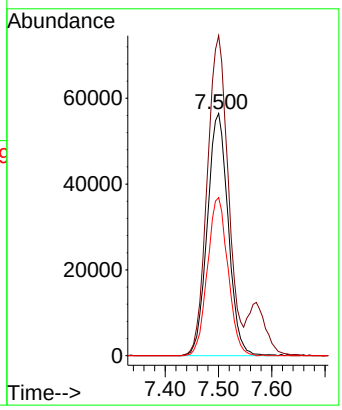


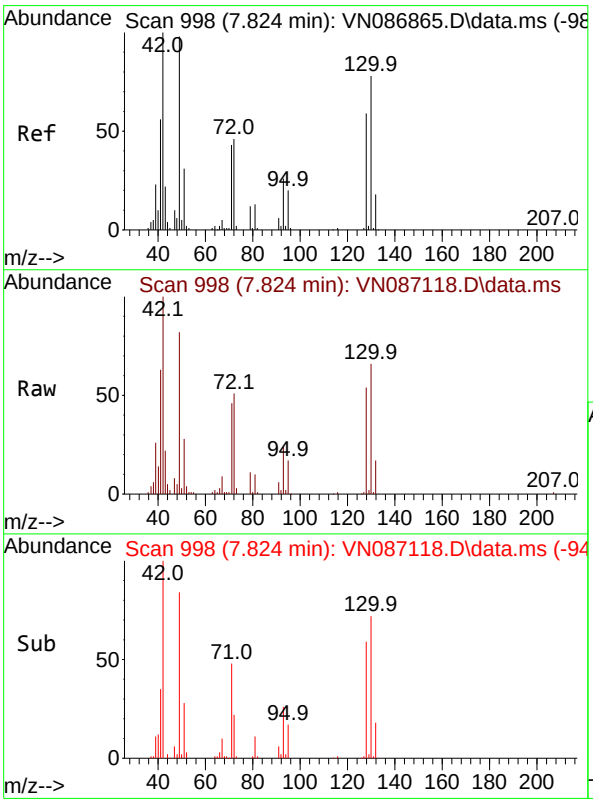
#27
cis-1,2-Dichloroethene
Concen: 57.469 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 96 Resp: 153827

Ion	Ratio	Lower	Upper
96	100		
61	132.8	0.0	278.0
98	64.1	0.0	128.2

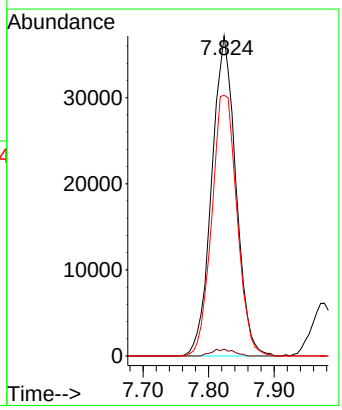


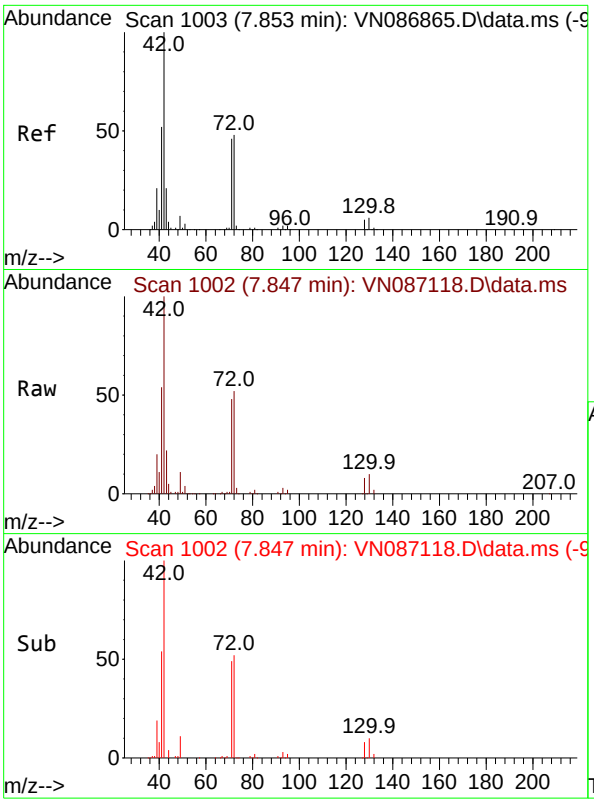


#28
Bromochloromethane
Concen: 47.769 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 49 Resp: 95053

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	85.0	62.2	93.2



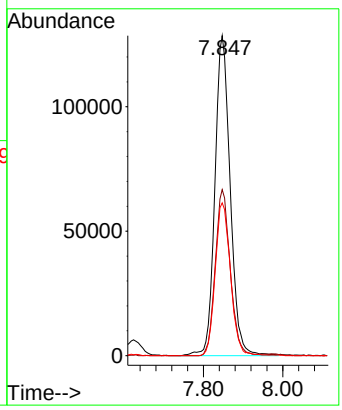


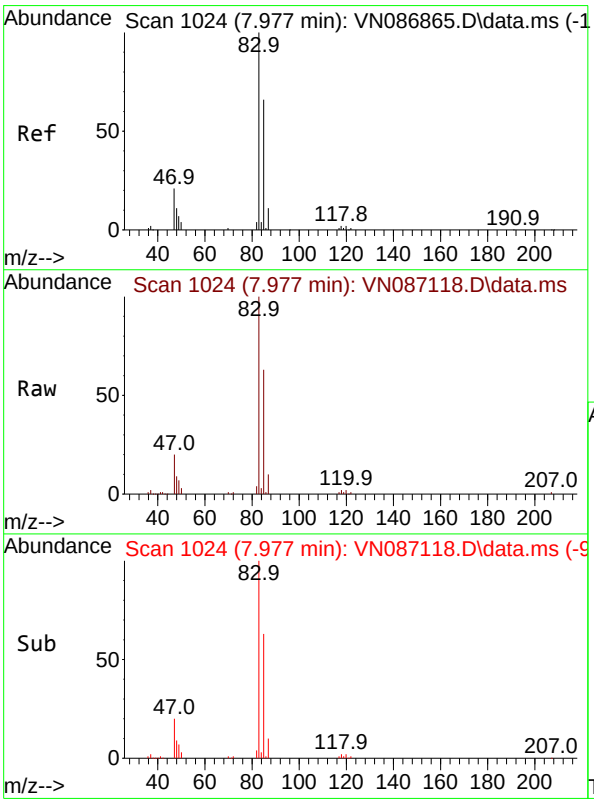
#29
Tetrahydrofuran
Concen: 253.893 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 42 Resp: 344998

Ion	Ratio	Lower	Upper
42	100		
72	50.7	37.8	56.6
71	47.7	35.6	53.4

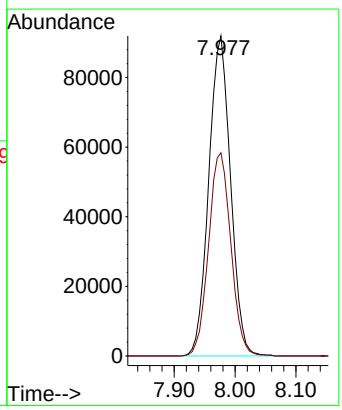


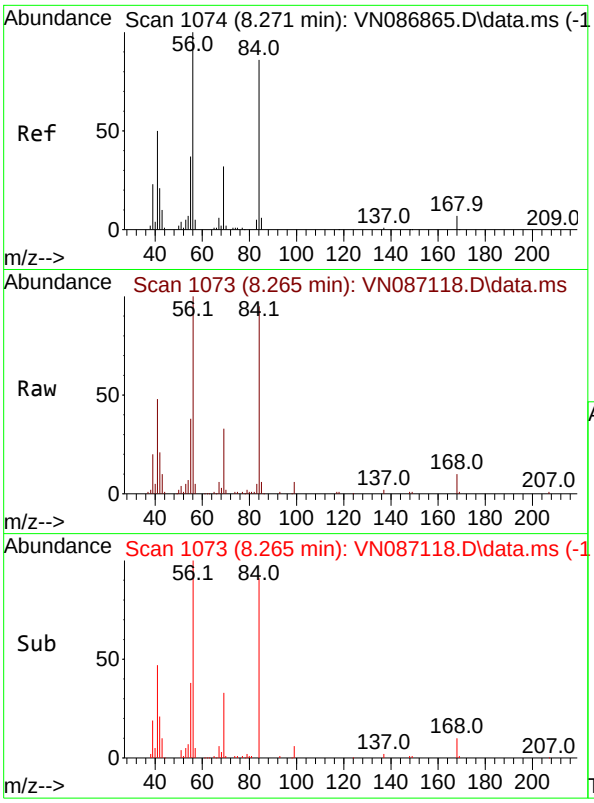


#30
Chloroform
Concen: 56.534 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 83 Resp: 228488

Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.9	79.3



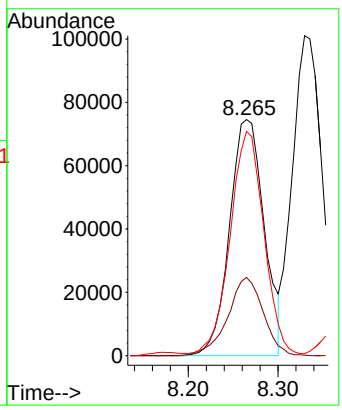


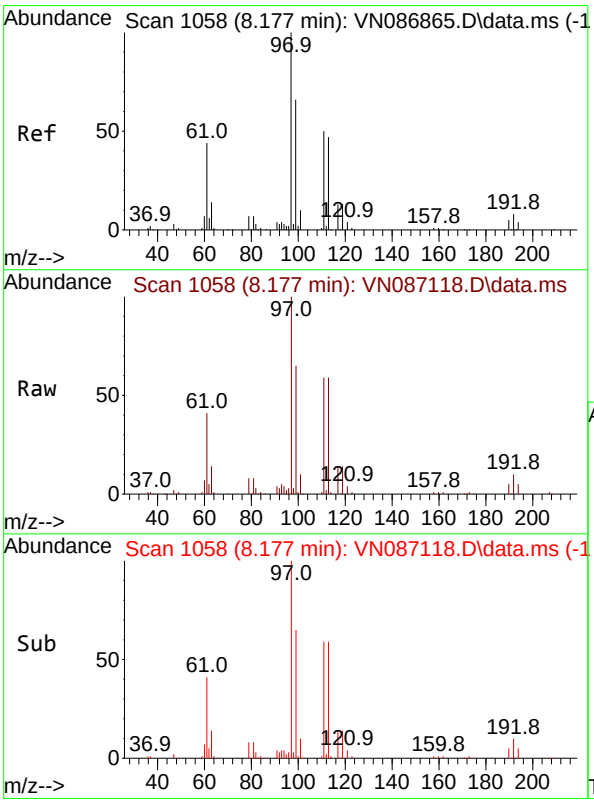
#31
Cyclohexane
Concen: 51.057 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 56 Resp: 200388

Ion	Ratio	Lower	Upper
56	100		
69	33.2	25.4	38.0
84	94.0	68.8	103.2

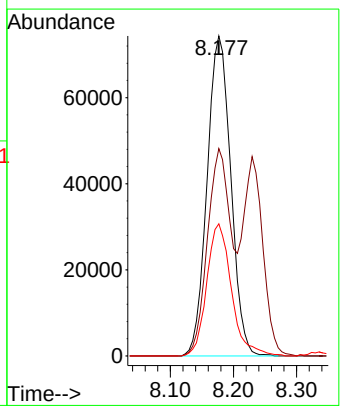


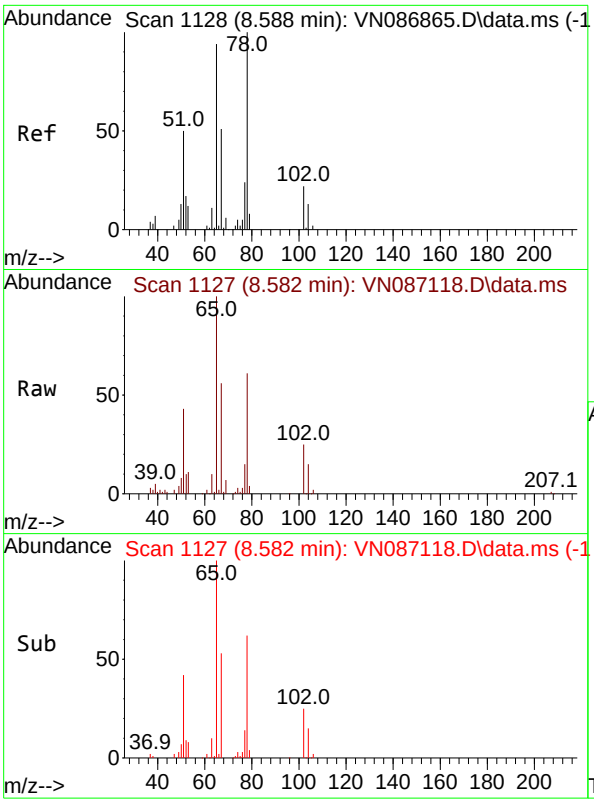


#32
1,1,1-Trichloroethane
Concen: 56.394 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 97 Resp: 193854

Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.0	78.0
61	43.1	35.9	53.9



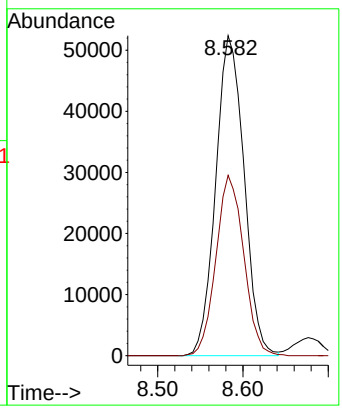


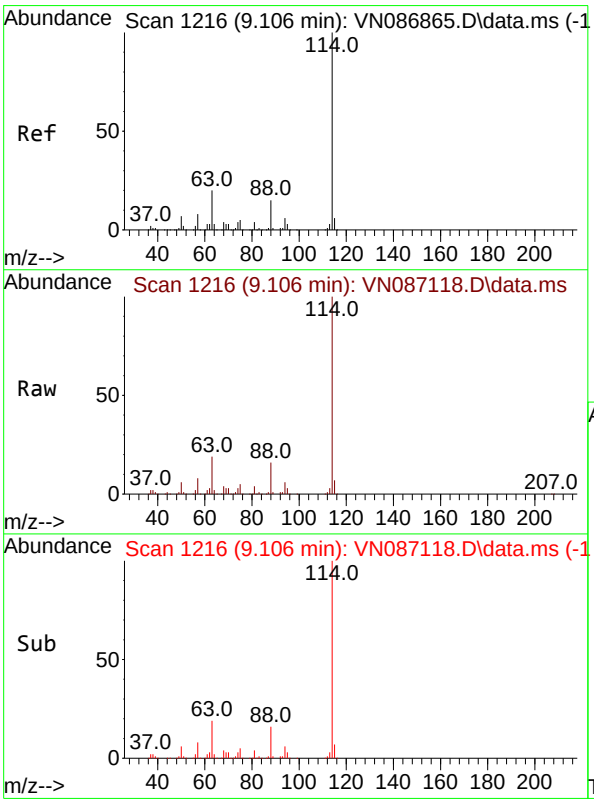
#33
1,2-Dichloroethane-d4
Concen: 50.011 ug/l
RT: 8.582 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 65 Resp: 121021

Ion	Ratio	Lower	Upper
65	100		
67	55.2	0.0	105.6

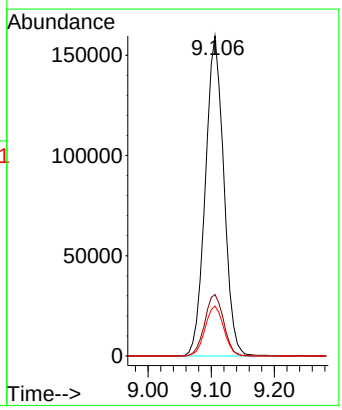


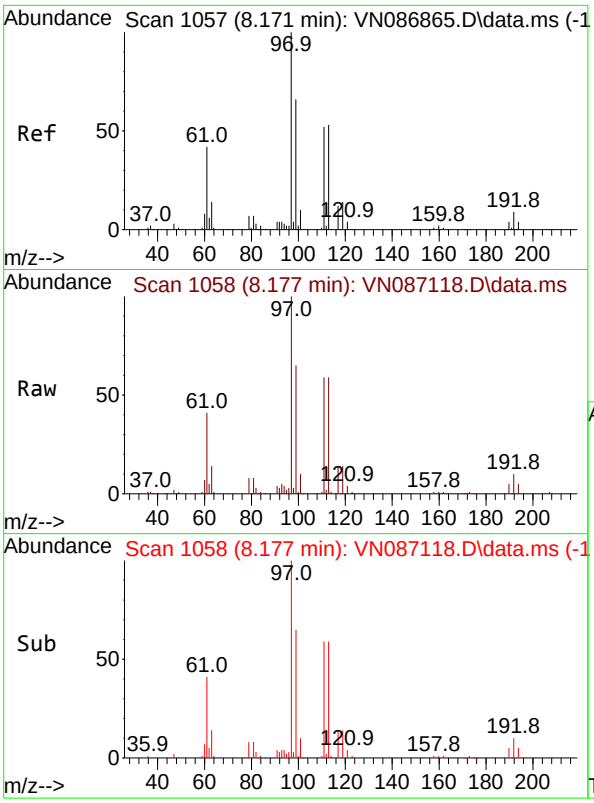


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:114 Resp: 323339

Ion	Ratio	Lower	Upper
114	100		
63	19.2	0.0	39.6
88	15.6	0.0	30.2



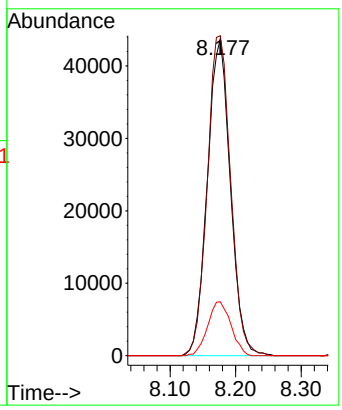


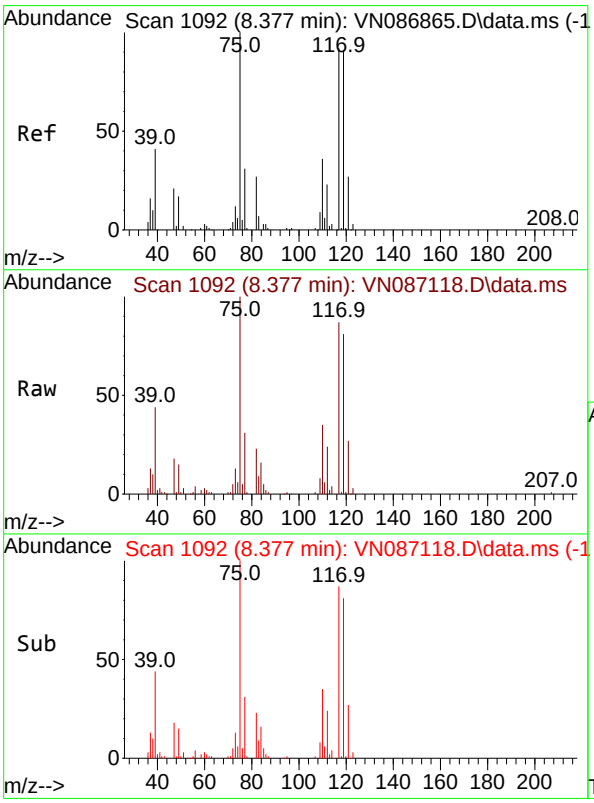
#35
Dibromofluoromethane
Concen: 55.650 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:113 Resp: 106635

Ion	Ratio	Lower	Upper
113	100		
111	102.6	84.2	126.2
192	17.2	14.2	21.4

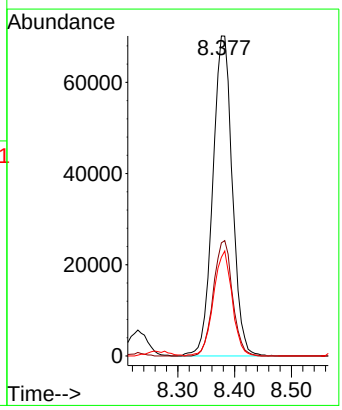


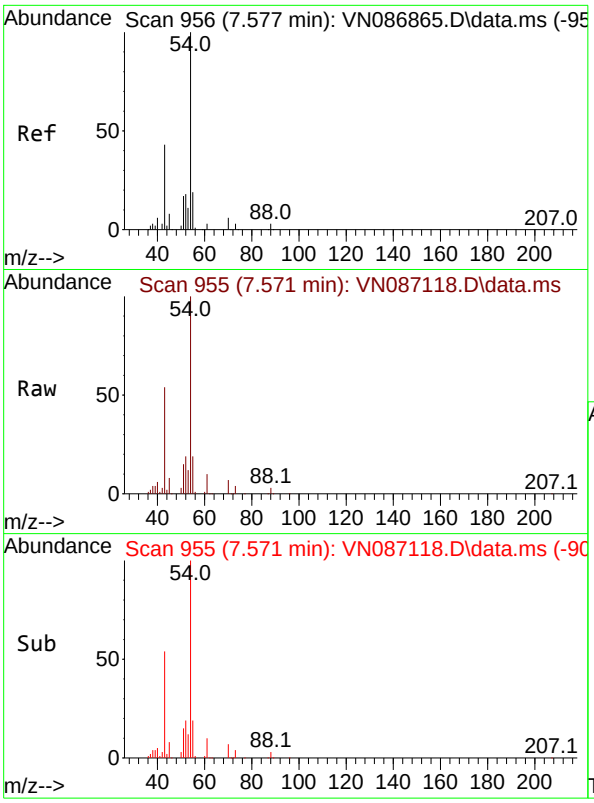


#36
1,1-Dichloropropene
Concen: 58.734 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 75 Resp: 167705

Ion	Ratio	Lower	Upper
75	100		
110	35.3	17.6	52.9
77	31.5	25.3	37.9



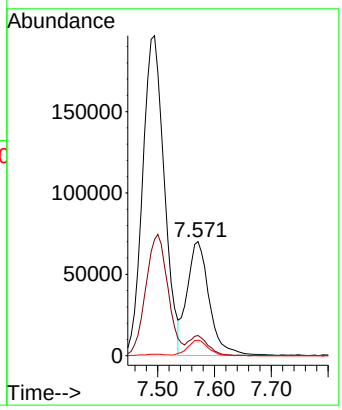


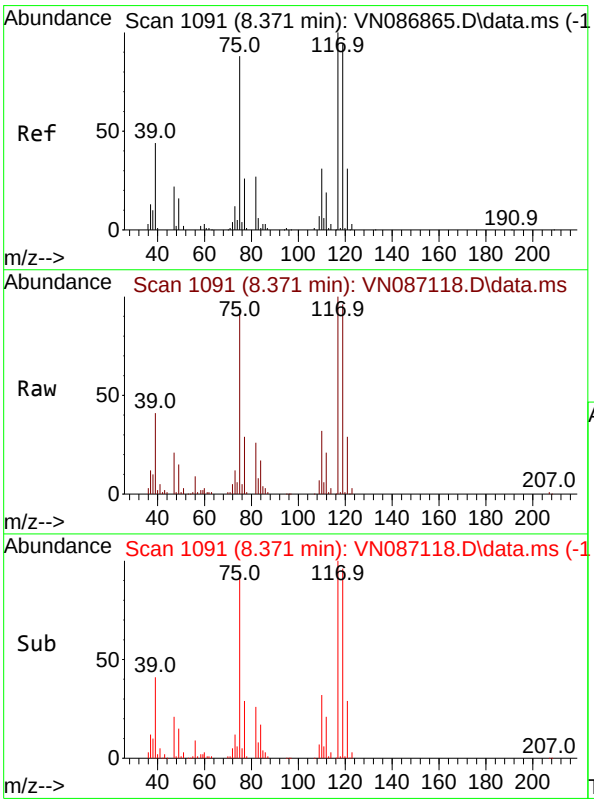
#37
Ethyl Acetate
Concen: 52.109 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 43 Resp: 189405

Ion	Ratio	Lower	Upper
43	100		
61	15.4	12.1	18.1
70	12.6	9.8	14.6

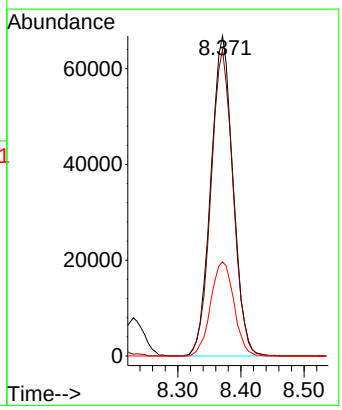


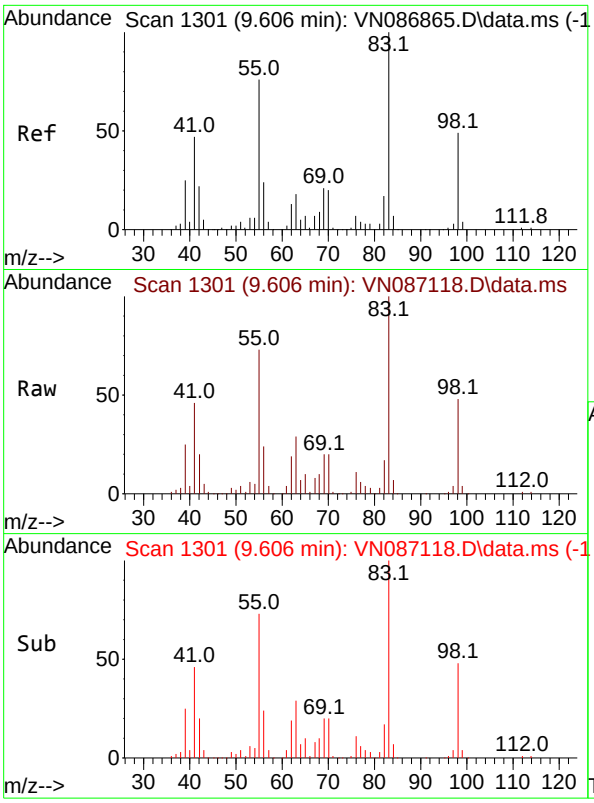


#38
Carbon Tetrachloride
Concen: 58.171 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:117 Resp: 163068

Ion	Ratio	Lower	Upper
117	100		
119	95.7	75.0	112.6
121	29.4	24.9	37.3



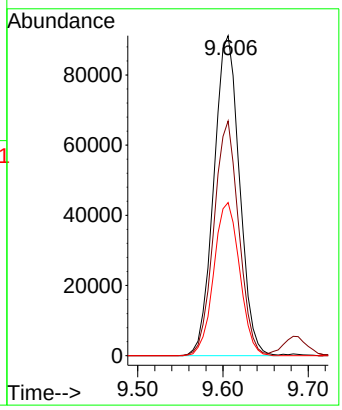


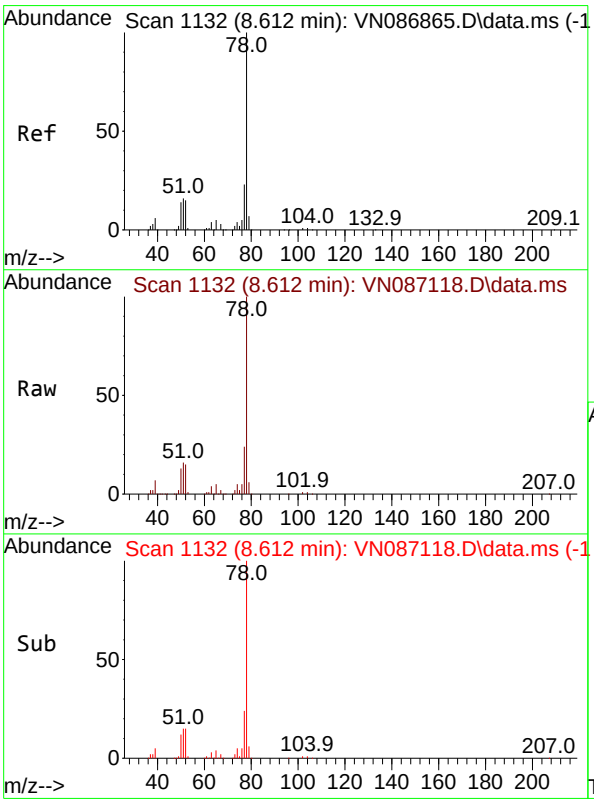
#39
Methylcyclohexane
Concen: 48.745 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 83 Resp: 190684

Ion	Ratio	Lower	Upper
83	100		
55	73.3	61.0	91.6
98	47.9	38.9	58.3

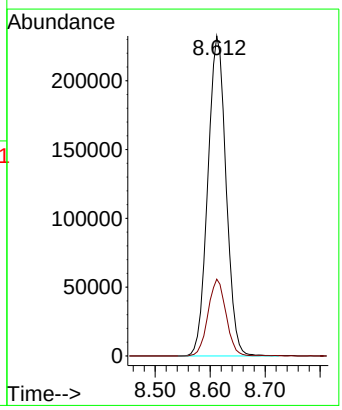


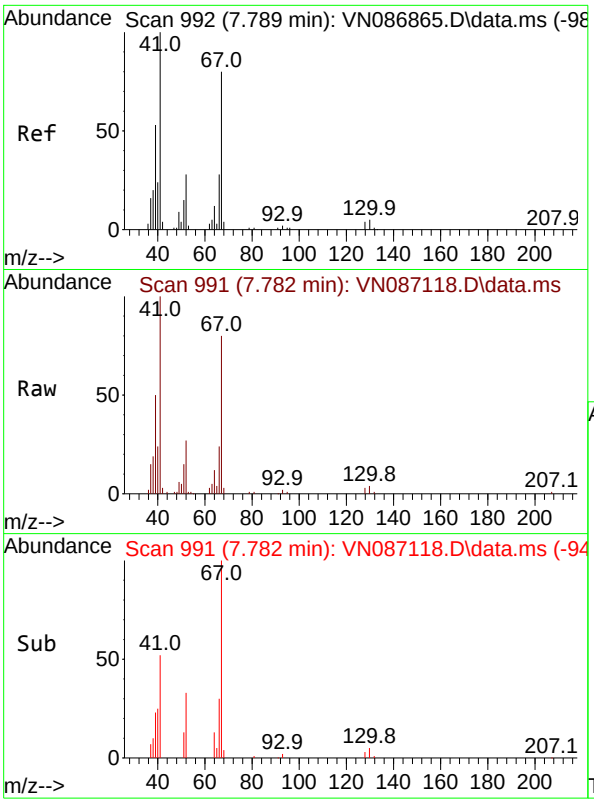


#40
Benzene
Concen: 57.404 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 78 Resp: 535976

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.7	28.1



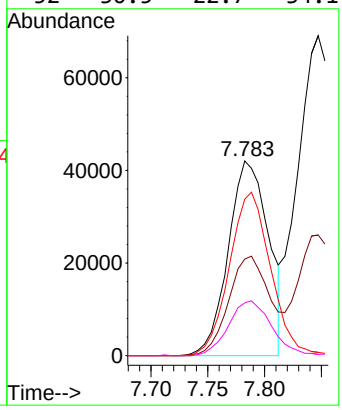


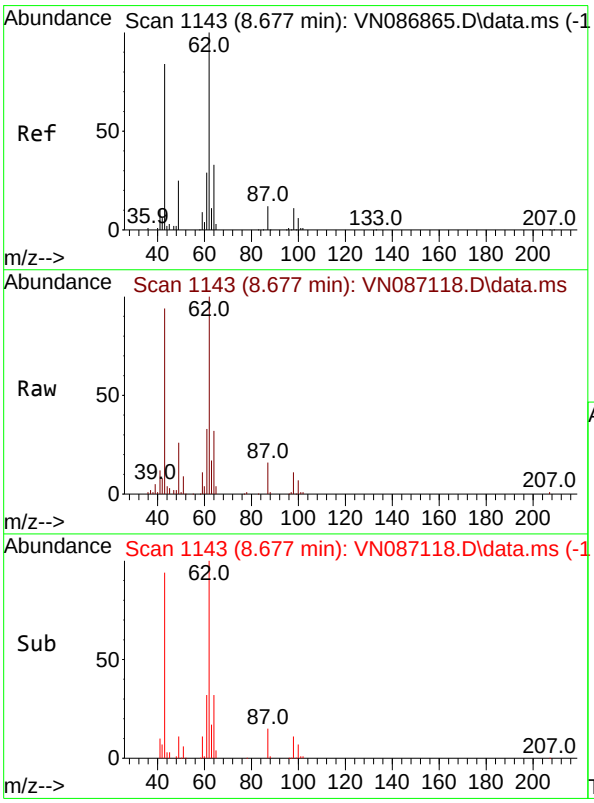
#41
Methacrylonitrile
Concen: 50.796 ug/l
RT: 7.782 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 41 Resp: 103692

Ion	Ratio	Lower	Upper
41	100		
39	54.1	41.2	61.8
67	86.1	61.4	92.2
52	30.5	22.7	34.1

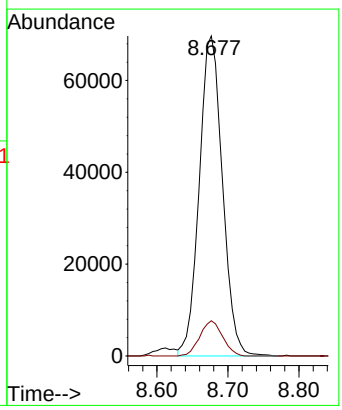


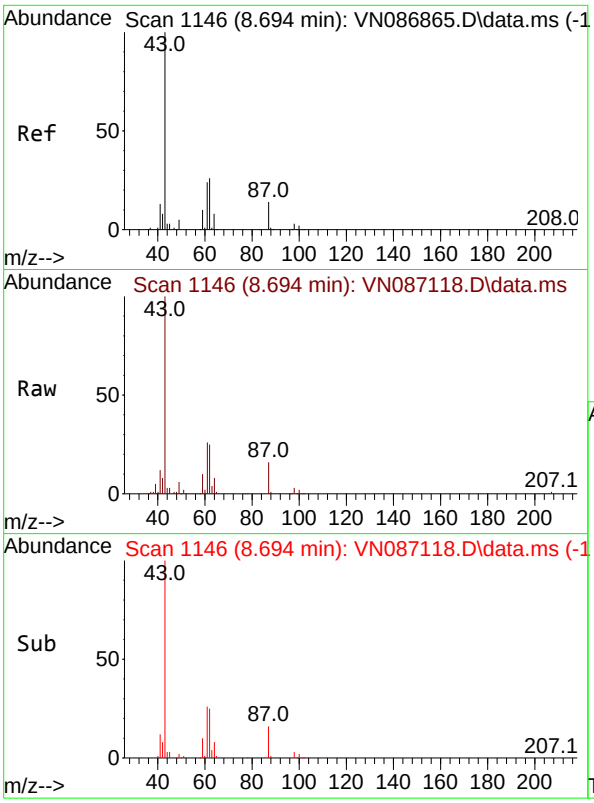


#42
1,2-Dichloroethane
Concen: 55.962 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 62 Resp: 158483

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	21.2



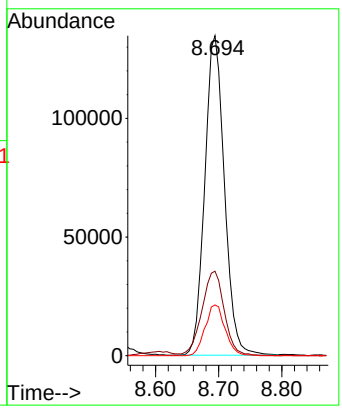


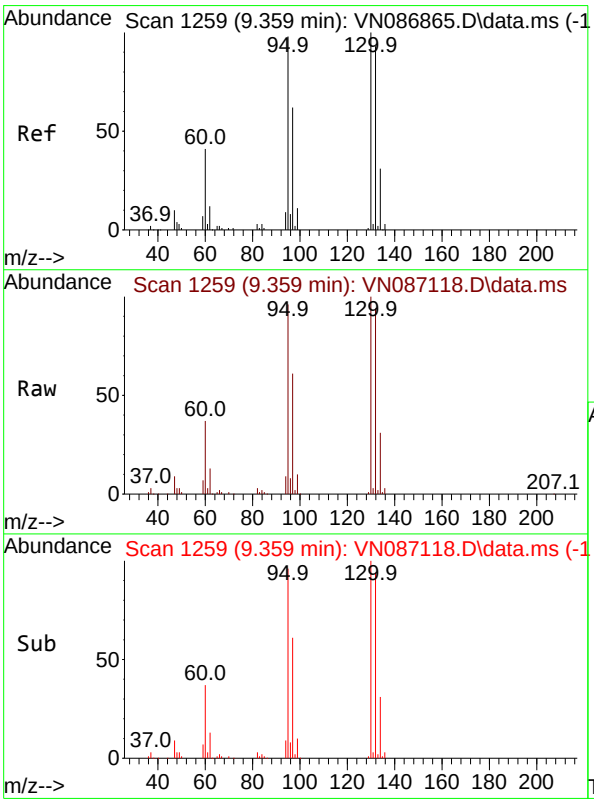
#43
Isopropyl Acetate
Concen: 50.032 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 43 Resp: 291879

Ion	Ratio	Lower	Upper
43	100		
61	30.0	22.1	33.1
87	16.1	11.8	17.6

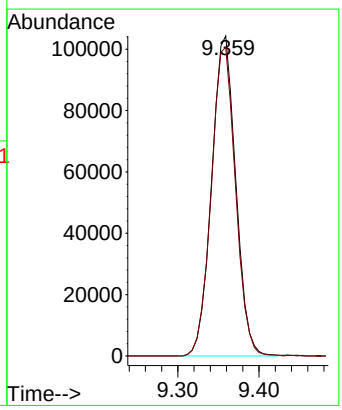


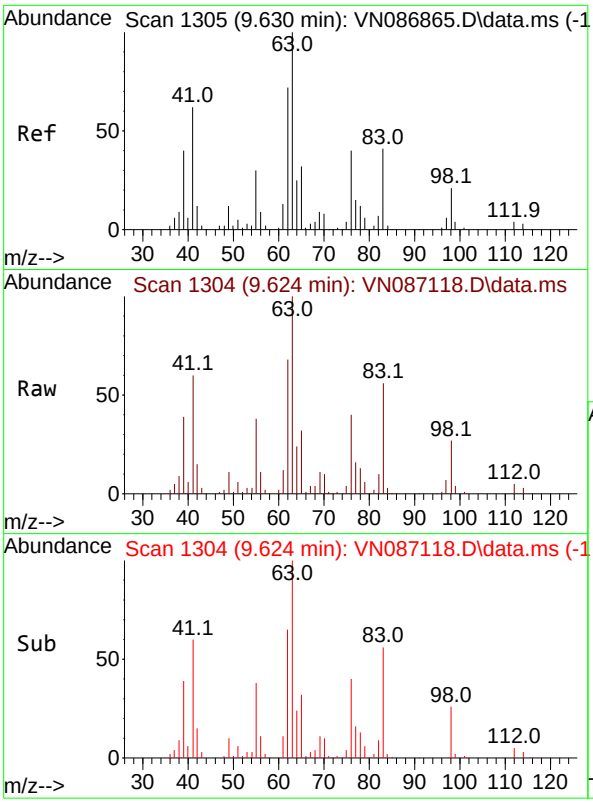


#44
Trichloroethene
Concen: 97.270 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:130 Resp: 215352

Ion	Ratio	Lower	Upper
130	100		
95	96.4	0.0	196.2



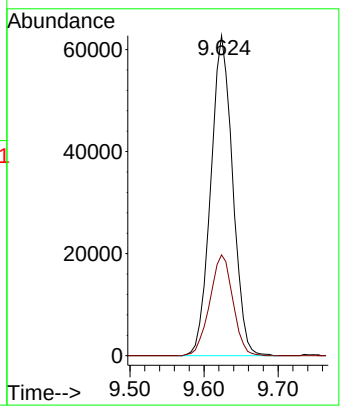


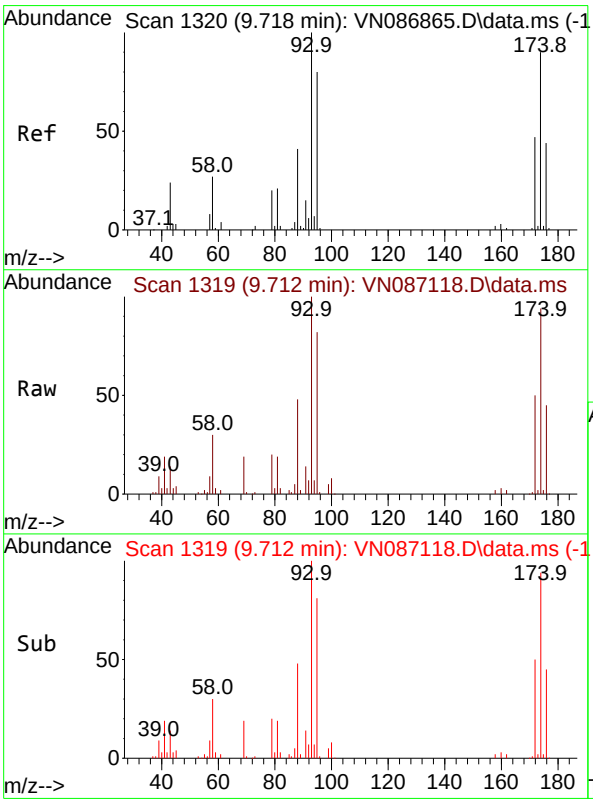
#45
1,2-Dichloropropane
Concen: 56.632 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 63 Resp: 128642

Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.5	38.3

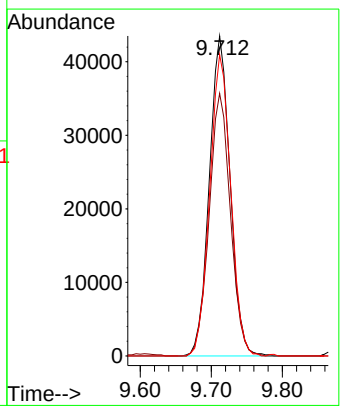


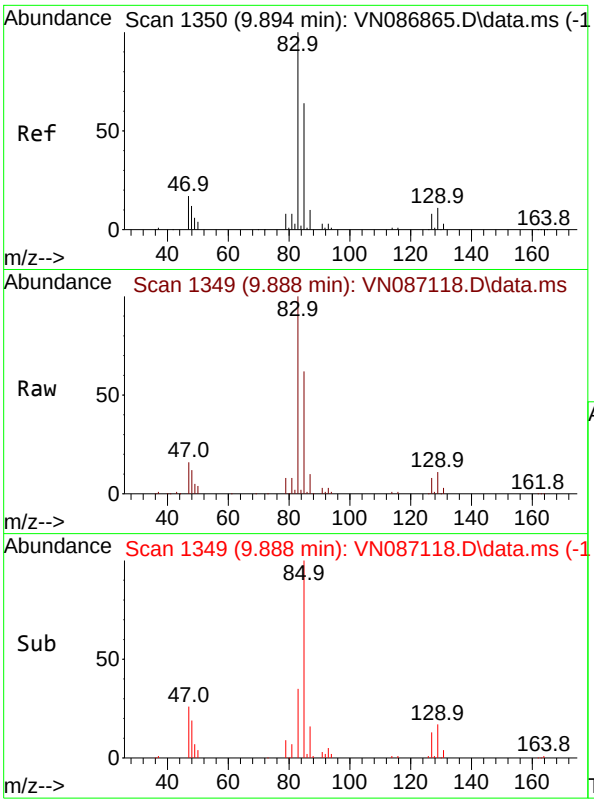


#46
Dibromomethane
Concen: 58.573 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 93 Resp: 88375

Ion	Ratio	Lower	Upper
93	100		
95	83.9	67.1	100.7
174	95.1	74.2	111.4



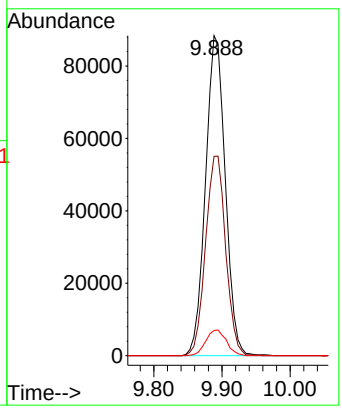


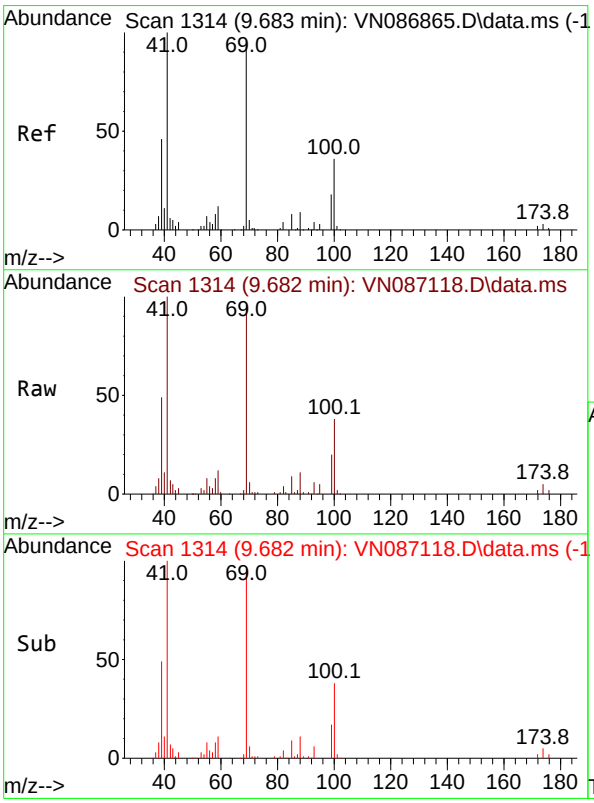
#47
Bromodichloromethane
Concen: 57.442 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 83 Resp: 178318

Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.9	76.3
127	7.8	6.6	10.0

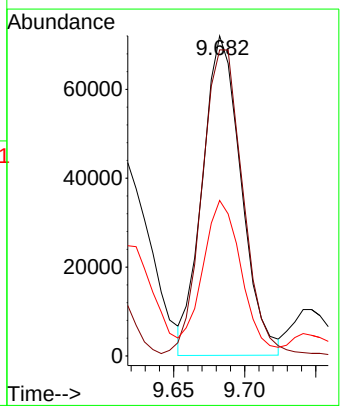


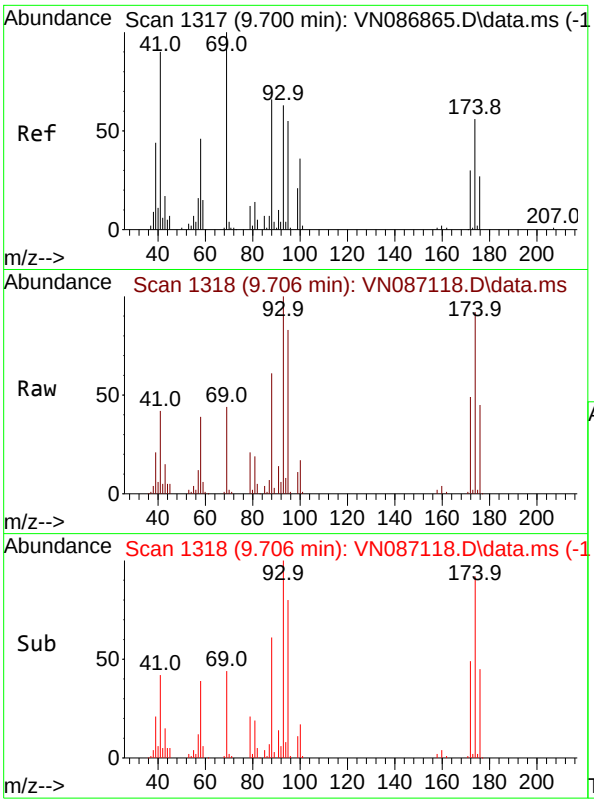


#48
Methyl methacrylate
Concen: 50.759 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 41 Resp: 136295

Ion	Ratio	Lower	Upper
41	100		
69	101.2	74.6	112.0
39	49.2	40.2	60.4



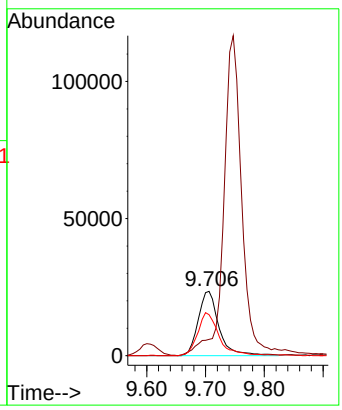


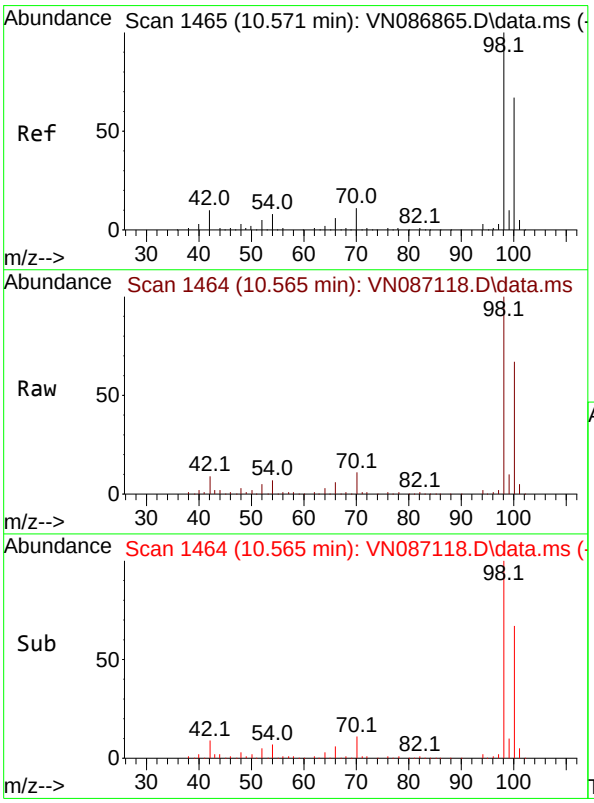
#49
1,4-Dioxane
Concen: 1178.993 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 88 Resp: 57592

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	69.1	57.7	86.5

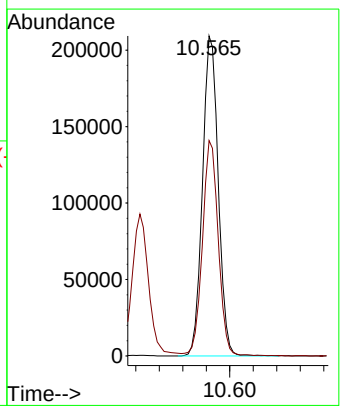


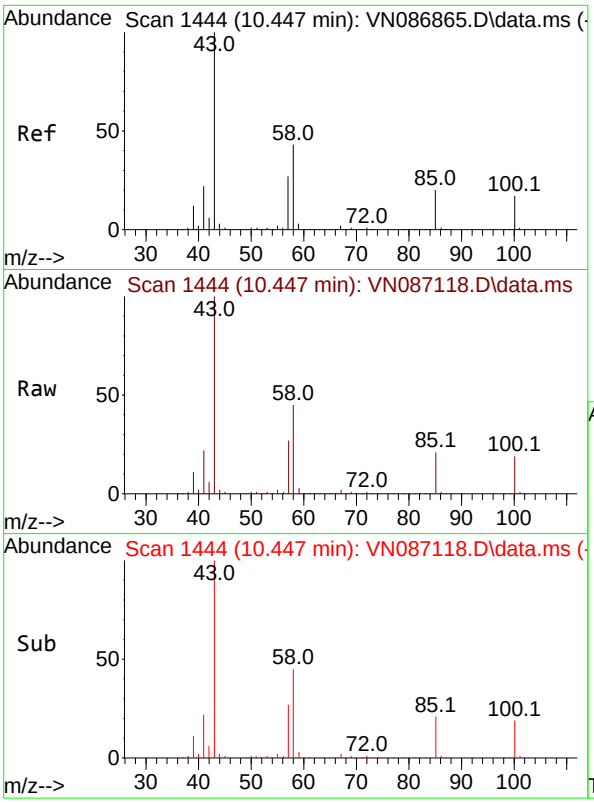


#50
Toluene-d8
Concen: 51.326 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 98 Resp: 389345

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.4	80.0



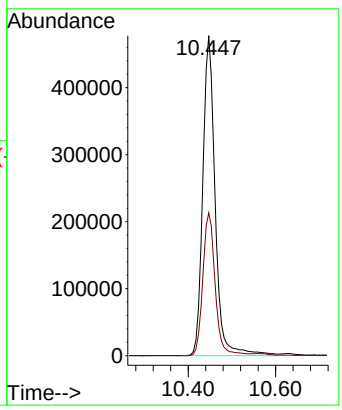


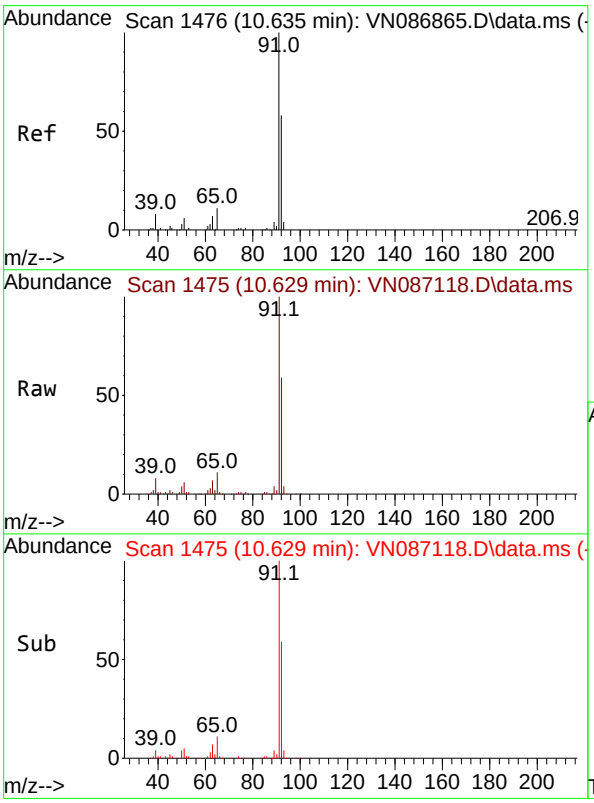
#51
4-Methyl-2-Pentanone
Concen: 268.964 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 43 Resp: 944616

Ion	Ratio	Lower	Upper
43	100		
58	44.5	34.2	51.4

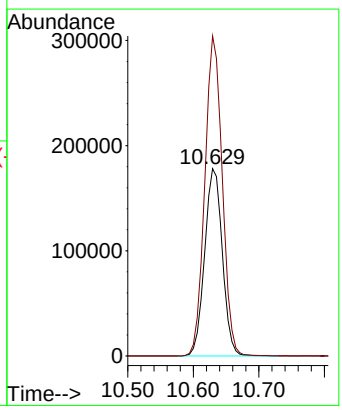


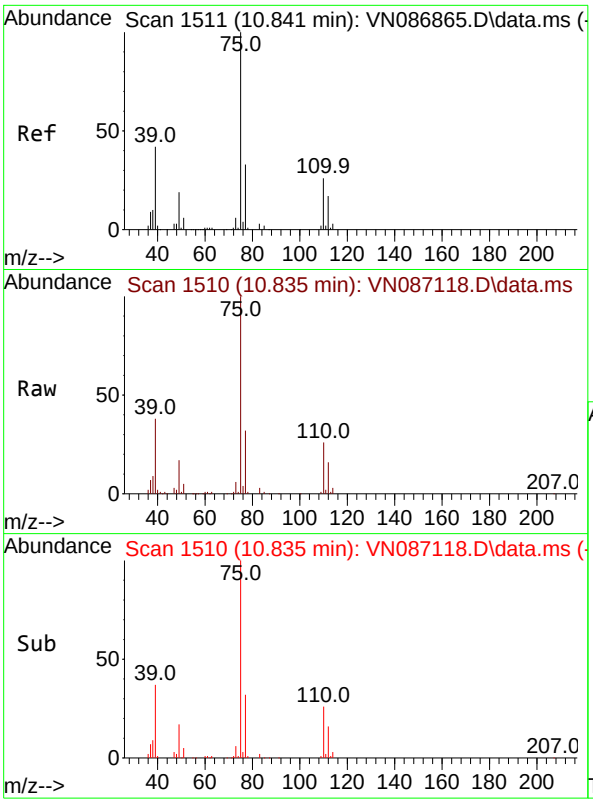


#52
Toluene
Concen: 58.579 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 92 Resp: 334253

Ion	Ratio	Lower	Upper
92	100		
91	168.6	136.5	204.7



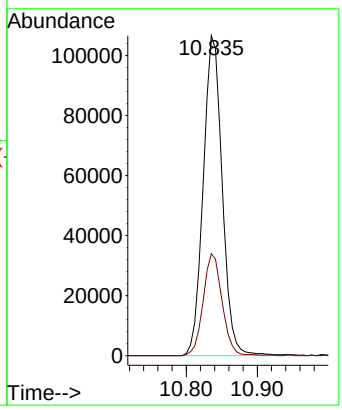


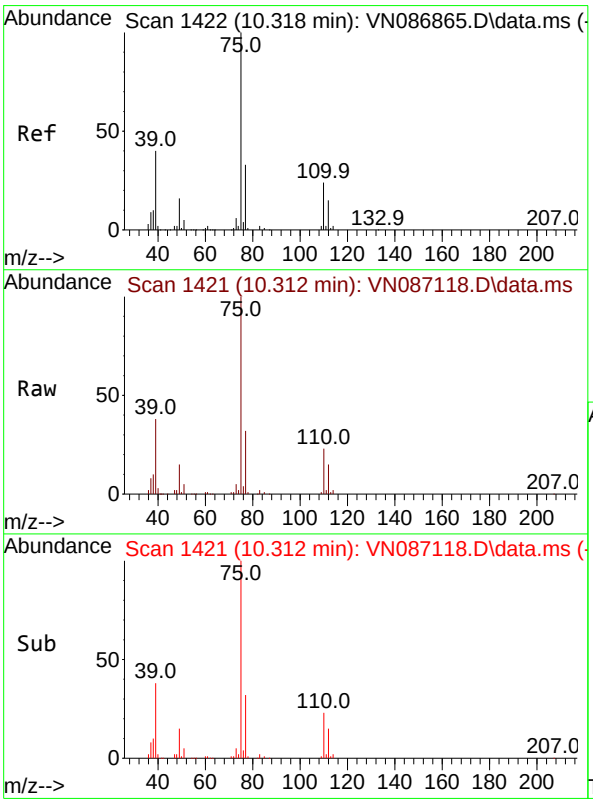
#53
t-1,3-Dichloropropene
Concen: 57.068 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 75 Resp: 198096

Ion	Ratio	Lower	Upper
75	100		
77	31.8	26.4	39.6

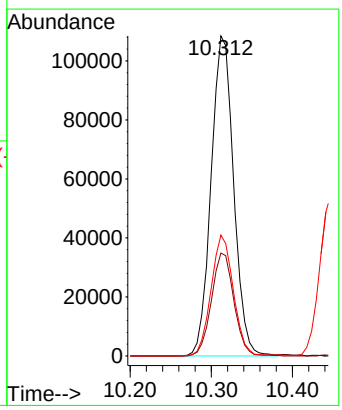


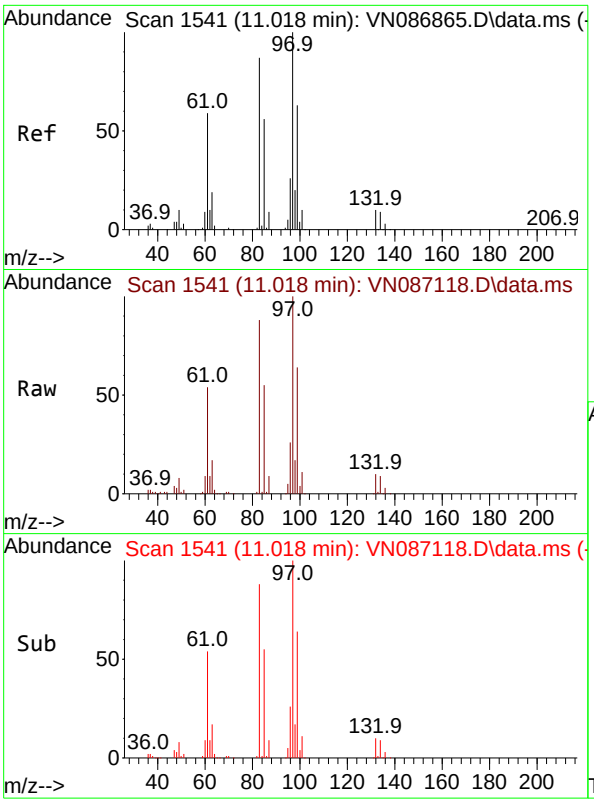


#54
cis-1,3-Dichloropropene
Concen: 56.337 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 75 Resp: 209243

Ion	Ratio	Lower	Upper
75	100		
77	32.1	26.2	39.4
39	37.7	32.3	48.5



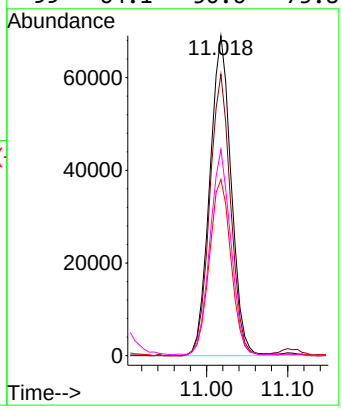


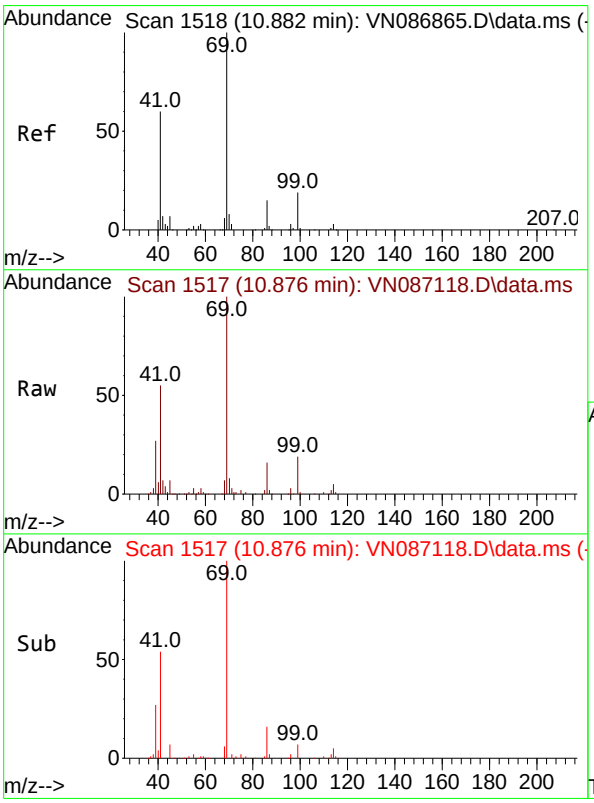
#55
1,1,2-Trichloroethane
Concen: 57.724 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 97 Resp: 126737

Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.7	104.5
85	55.0	45.1	67.7
99	64.1	50.6	75.8

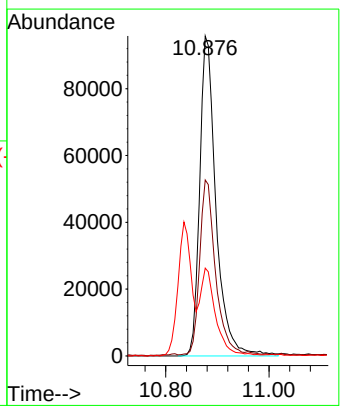


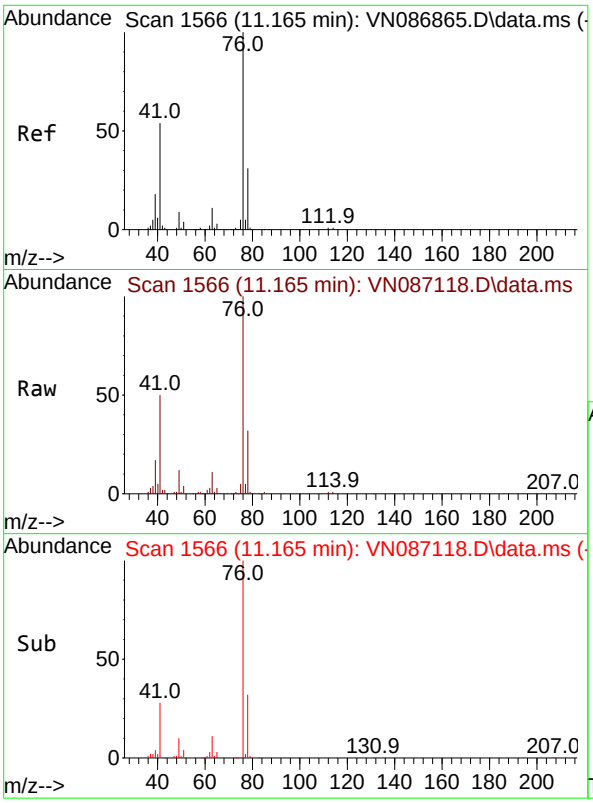


#56
Ethyl methacrylate
Concen: 59.895 ug/l
RT: 10.876 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 69 Resp: 209456

Ion	Ratio	Lower	Upper
69	100		
41	53.3	47.2	70.8
39	25.5	23.0	34.6



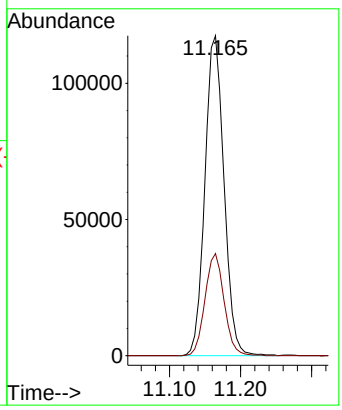


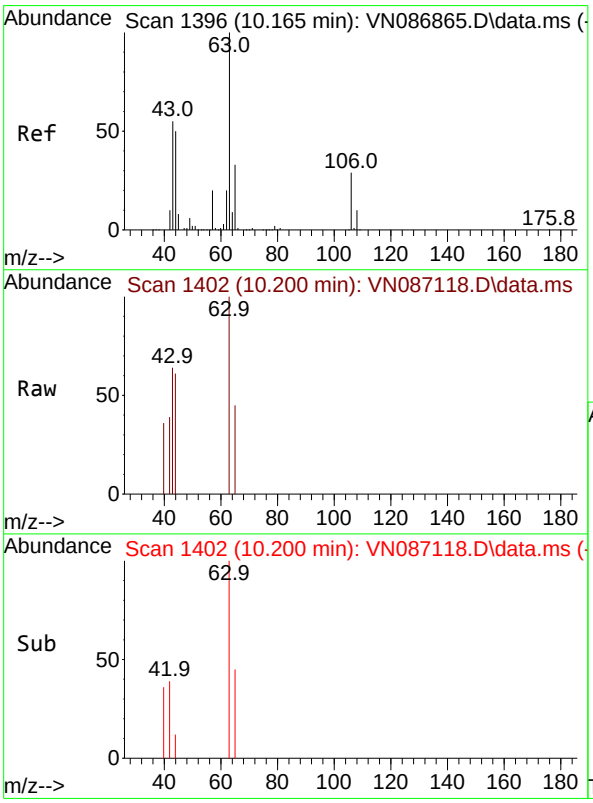
#57
1,3-Dichloropropane
Concen: 57.571 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 76 Resp: 219270

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.3	37.9

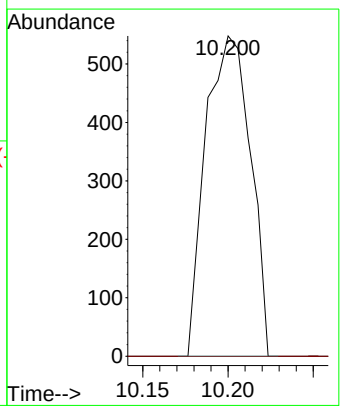


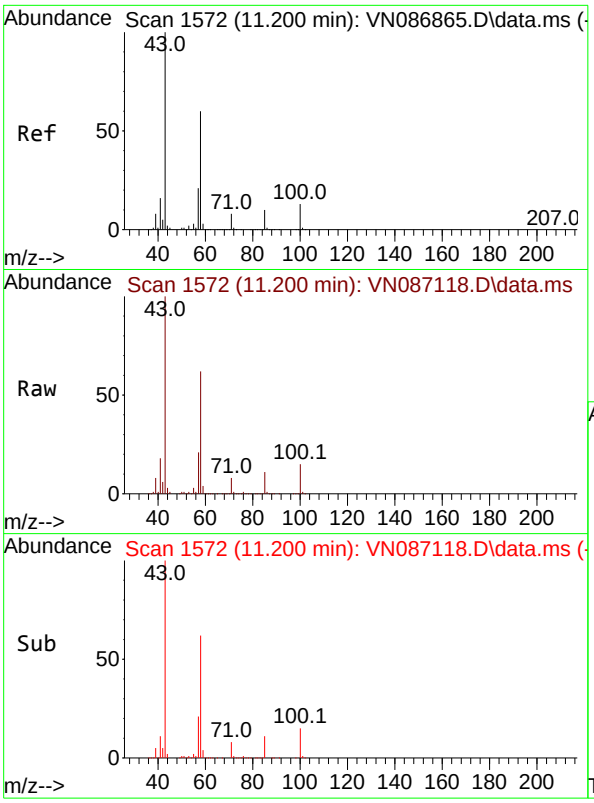


#58
2-Chloroethyl Vinyl ether
Concen: 0.480 ug/l
RT: 10.200 min Scan# 1402
Delta R.T. 0.035 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 63 Resp: 1002

Ion	Ratio	Lower	Upper
63	100		
106	0.0	23.0	34.6#



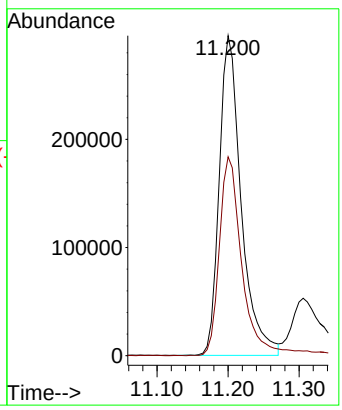


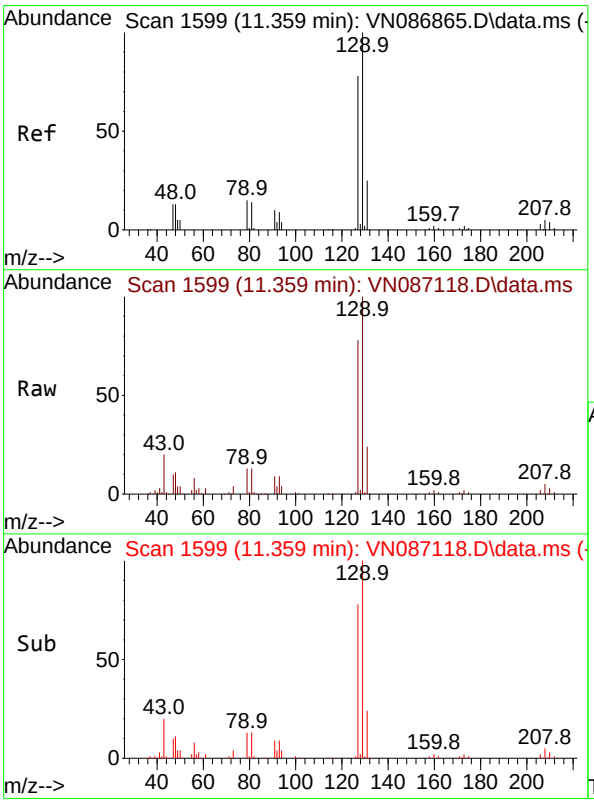
#59
2-Hexanone
Concen: 279.606 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 43 Resp: 632533

Ion	Ratio	Lower	Upper
43	100		
58	66.3	30.4	91.3

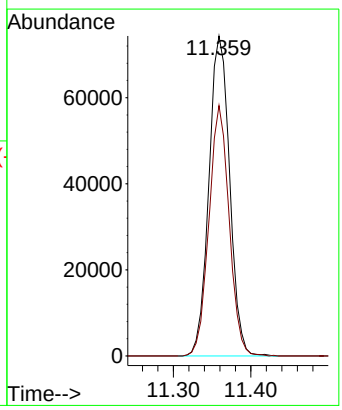


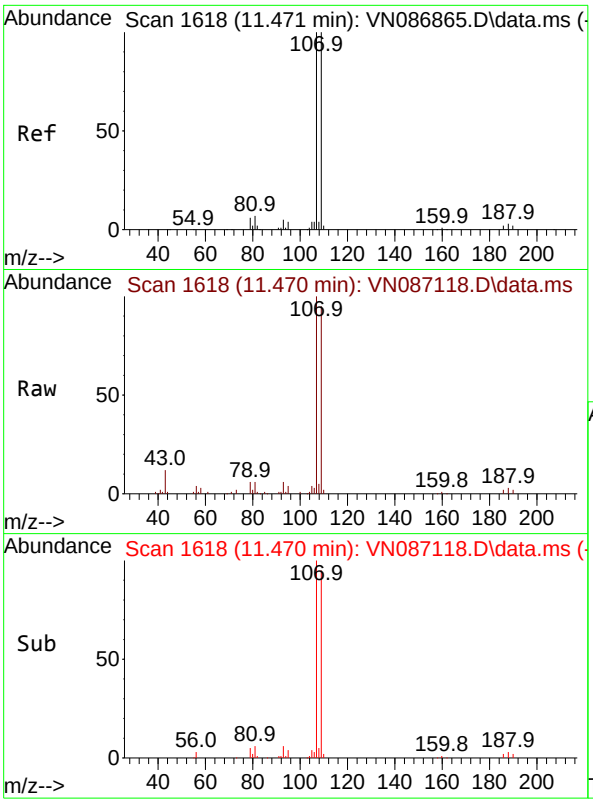


#60
Dibromochloromethane
Concen: 60.343 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:129 Resp: 138037

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.6	115.8



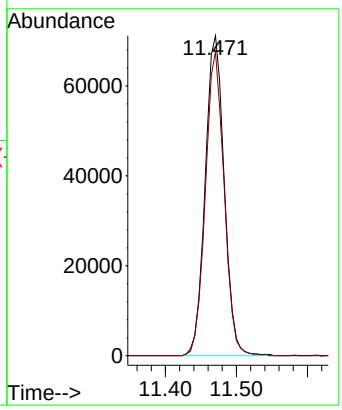


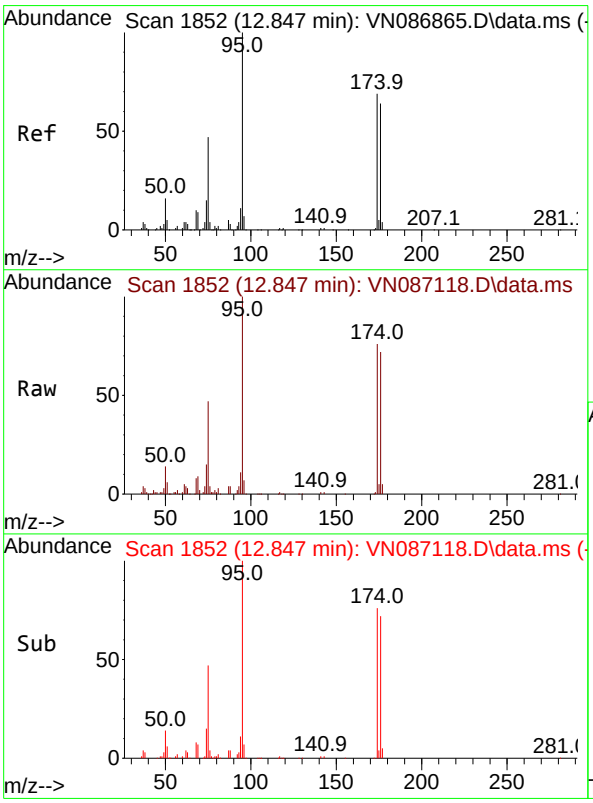
#61
1,2-Dibromoethane
Concen: 58.934 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:107 Resp: 132627

Ion	Ratio	Lower	Upper
107	100		
109	93.2	76.3	114.5

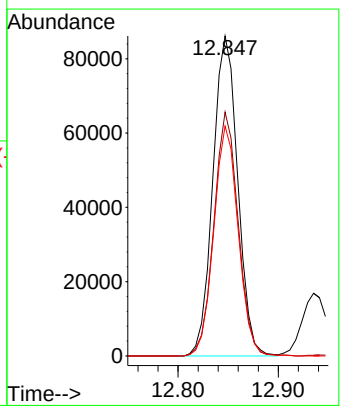


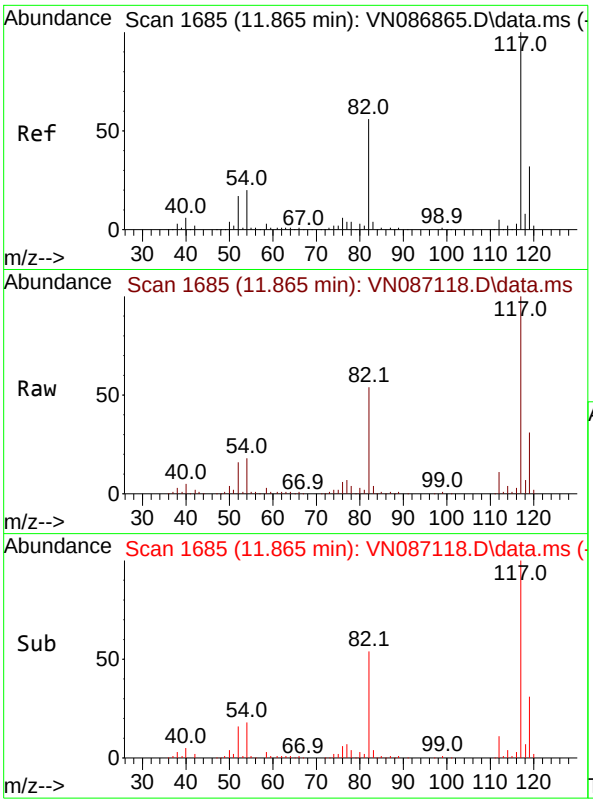


#62
4-Bromofluorobenzene
Concen: 52.573 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 95 Resp: 148165

Ion	Ratio	Lower	Upper
95	100		
174	74.4	0.0	141.8
176	70.6	0.0	132.6



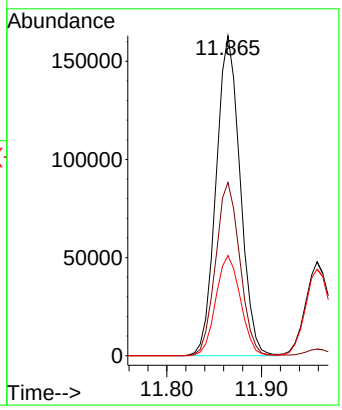


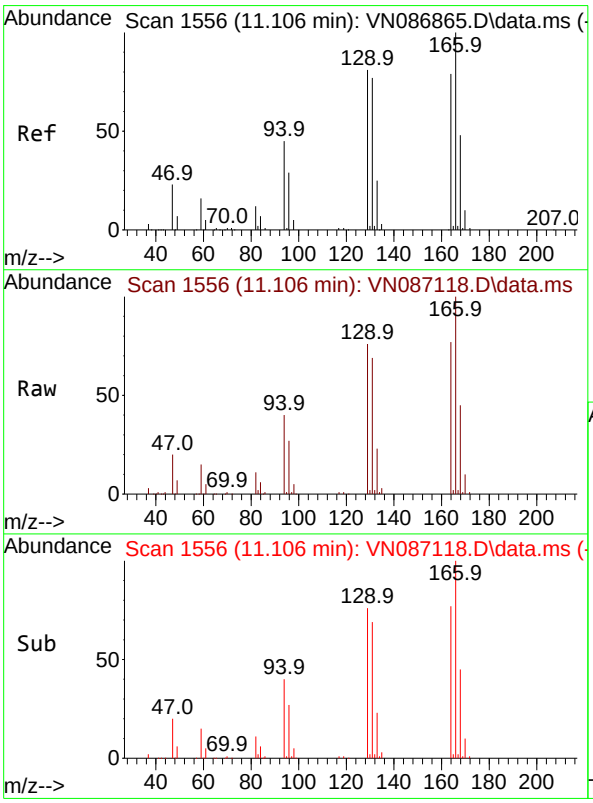
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:117 Resp: 287602

Ion	Ratio	Lower	Upper
117	100		
82	54.1	44.6	67.0
119	31.3	25.5	38.3

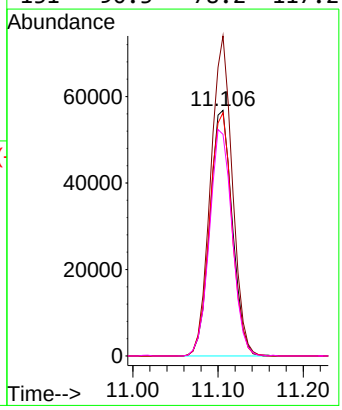


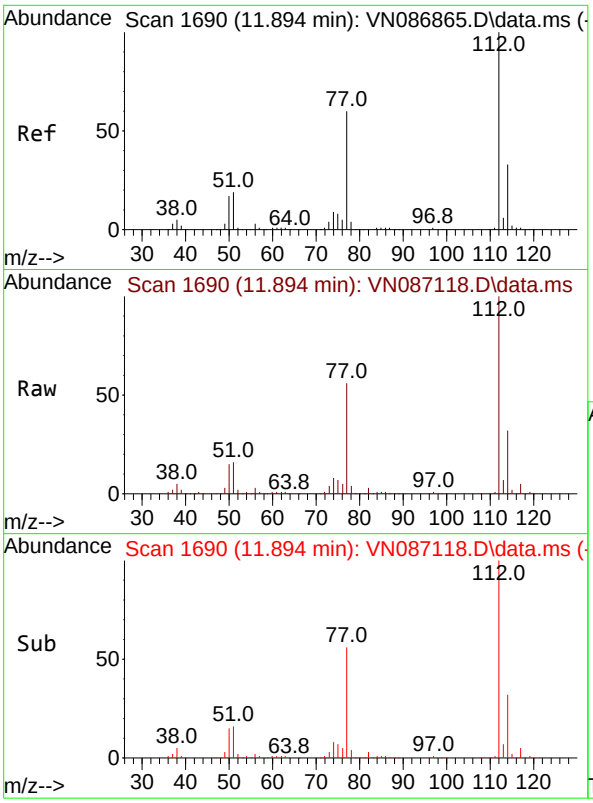


#64
Tetrachloroethene
Concen: 57.264 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:164 Resp: 104229

Ion	Ratio	Lower	Upper
164	100		
166	130.3	101.8	152.8
129	99.0	83.0	124.4
131	90.3	78.2	117.2



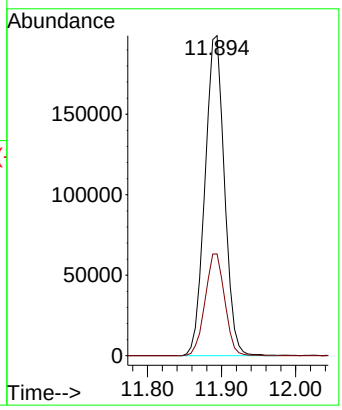


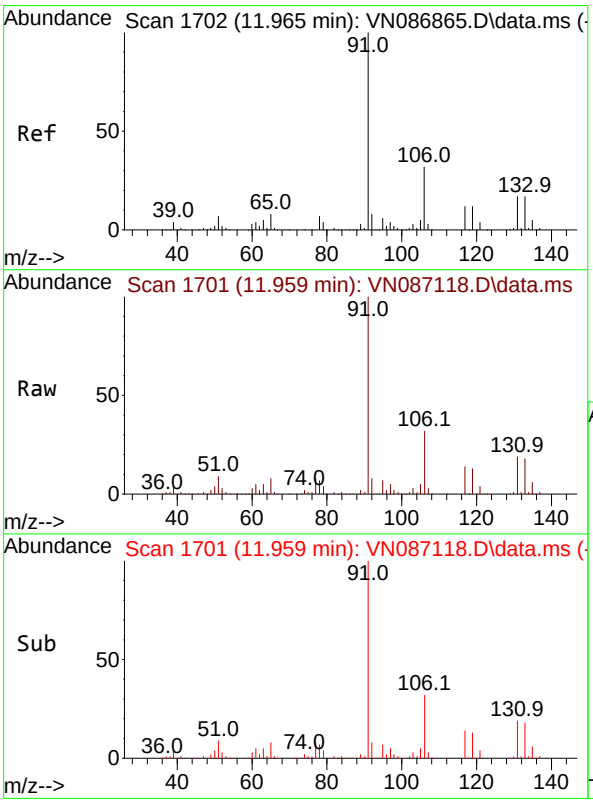
#65
Chlorobenzene
Concen: 57.149 ug/l
RT: 11.894 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:112 Resp: 362505

Ion	Ratio	Lower	Upper
112	100		
114	31.8	26.2	39.2

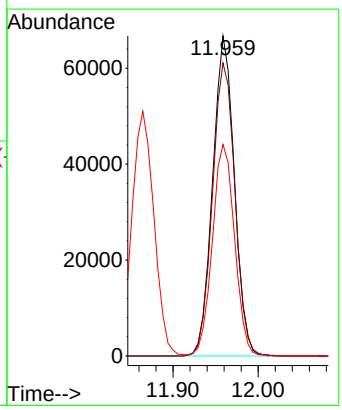


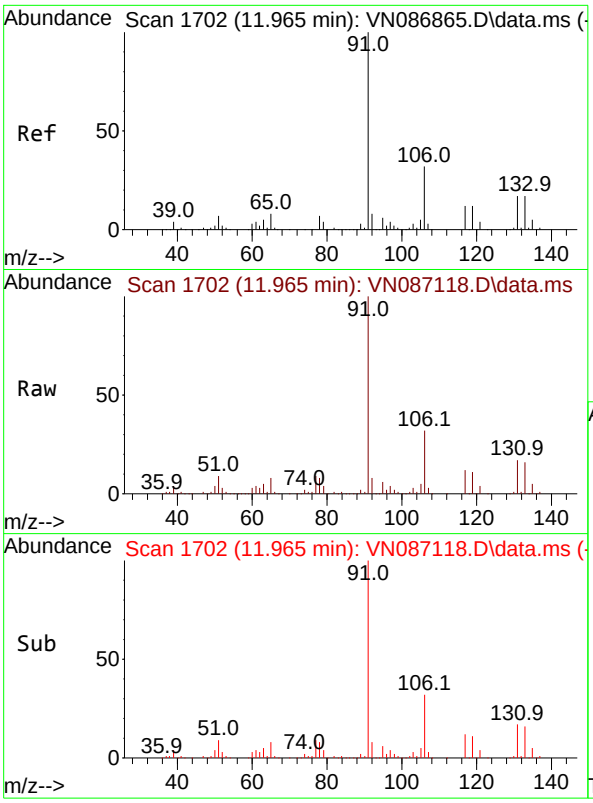


#66
1,1,1,2-Tetrachloroethane
Concen: 57.889 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:131 Resp: 118036

Ion	Ratio	Lower	Upper
131	100		
133	94.8	48.3	144.8
119	67.7	34.0	101.8



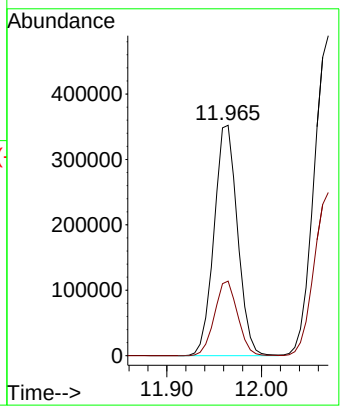


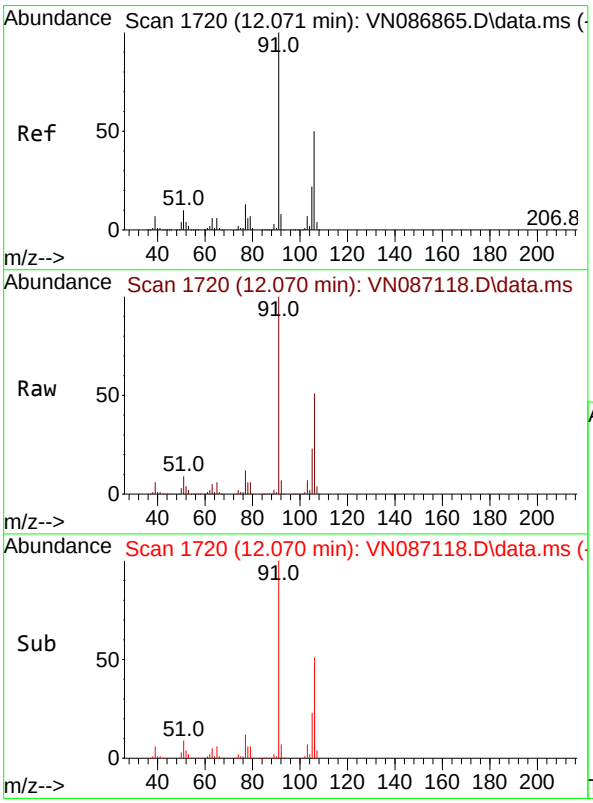
#67
Ethyl Benzene
Concen: 55.559 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 91 Resp: 607039

Ion	Ratio	Lower	Upper
91	100		
106	32.3	25.4	38.2

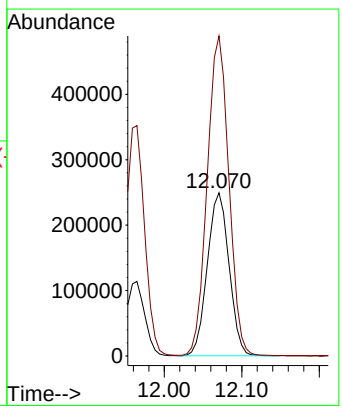


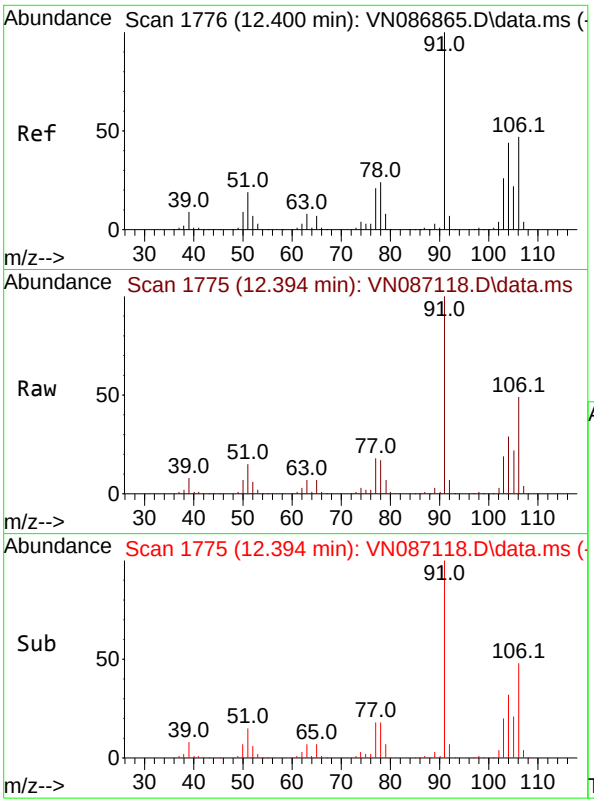


#68
m/p-Xylenes
Concen: 116.211 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:106 Resp: 486047

Ion	Ratio	Lower	Upper
106	100		
91	196.0	159.4	239.0



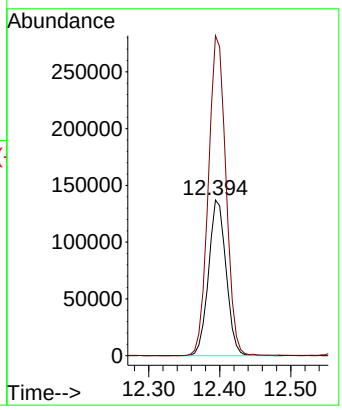


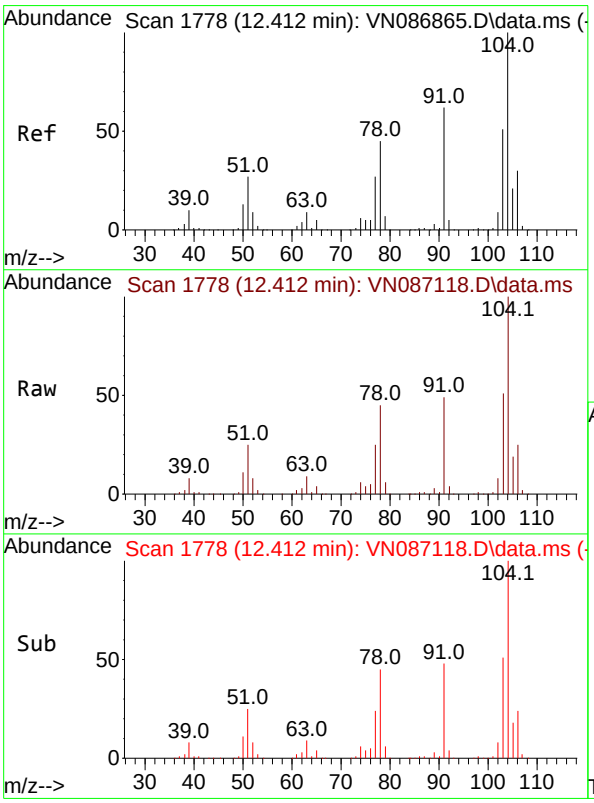
#69
o-Xylene
Concen: 58.675 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:106 Resp: 235034

Ion	Ratio	Lower	Upper
106	100		
91	206.1	106.1	318.1

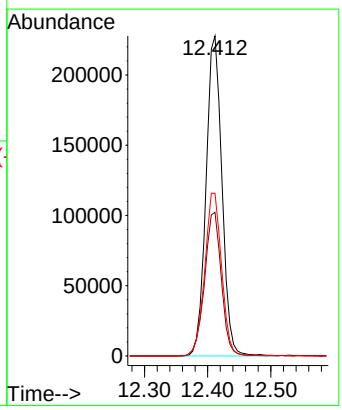


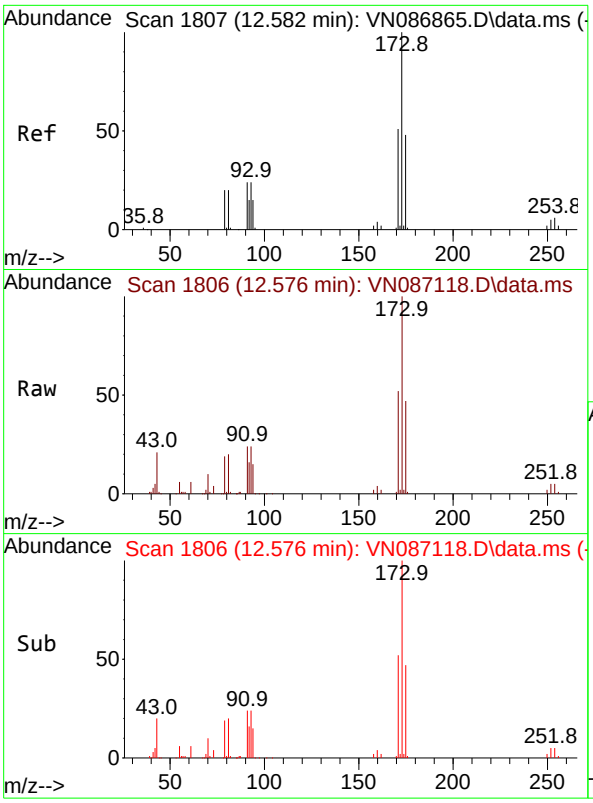


#70
Styrene
Concen: 58.190 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:104 Resp: 398866

Ion	Ratio	Lower	Upper
104	100		
78	47.2	38.5	57.7
103	54.3	43.1	64.7



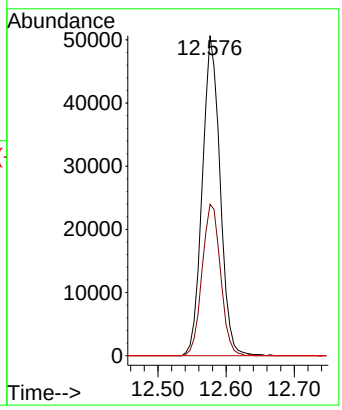


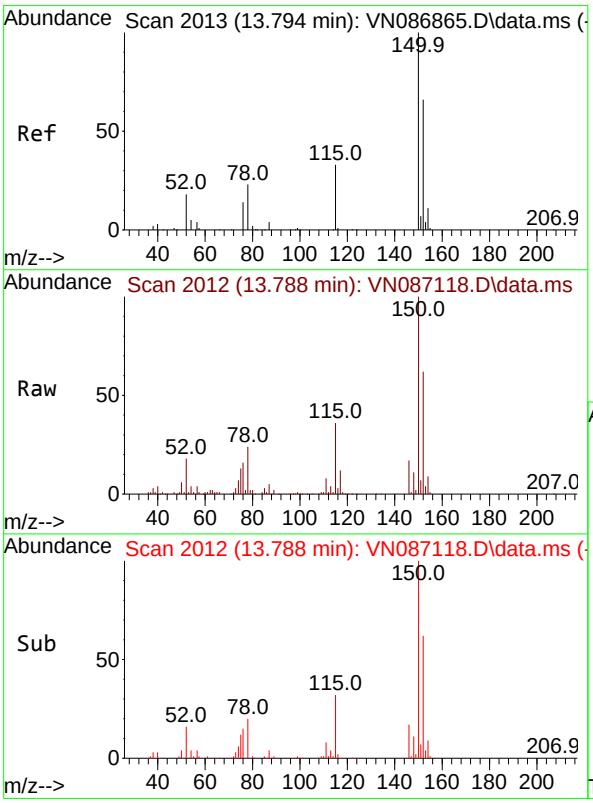
#71
Bromoform
Concen: 60.729 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:173 Resp: 91748

Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.1	72.4
254	0.0	0.0	0.0

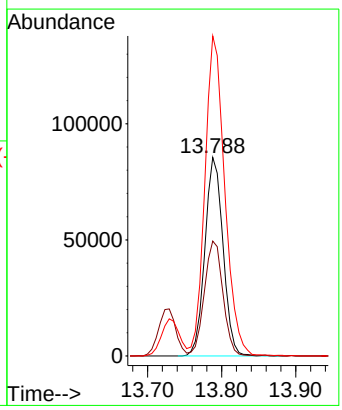


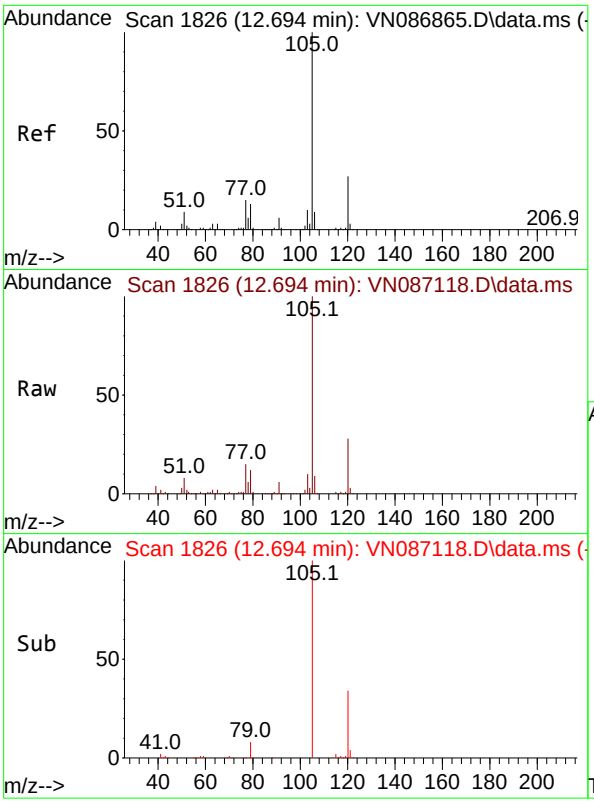


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:152 Resp: 145576

Ion	Ratio	Lower	Upper
152	100		
115	59.3	30.1	90.5
150	177.0	0.0	345.0



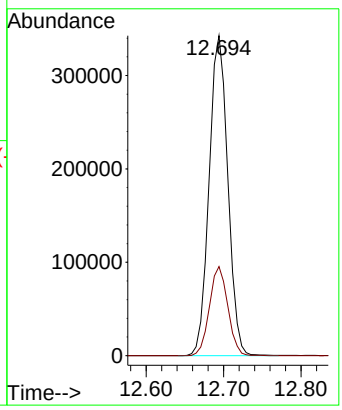


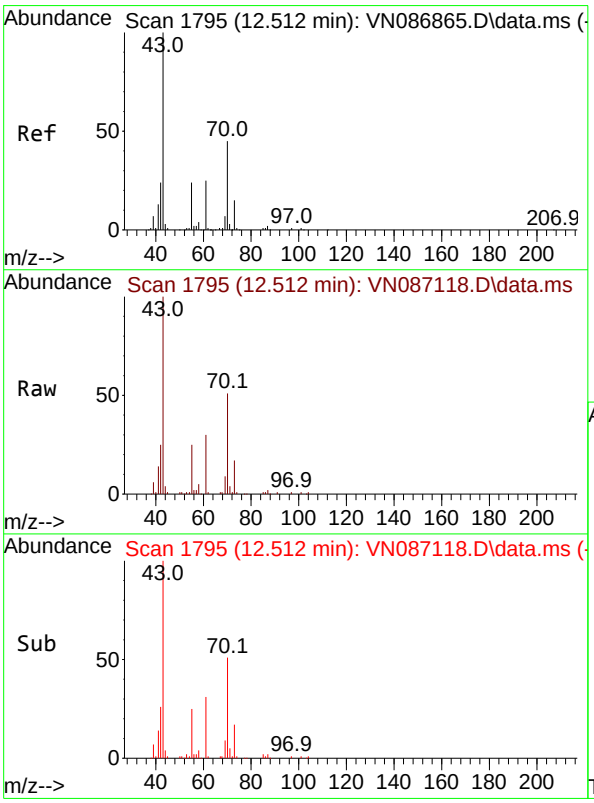
#73
Isopropylbenzene
Concen: 54.196 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:105 Resp: 574771

Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.5	40.4

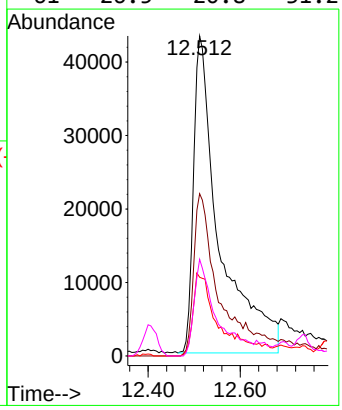


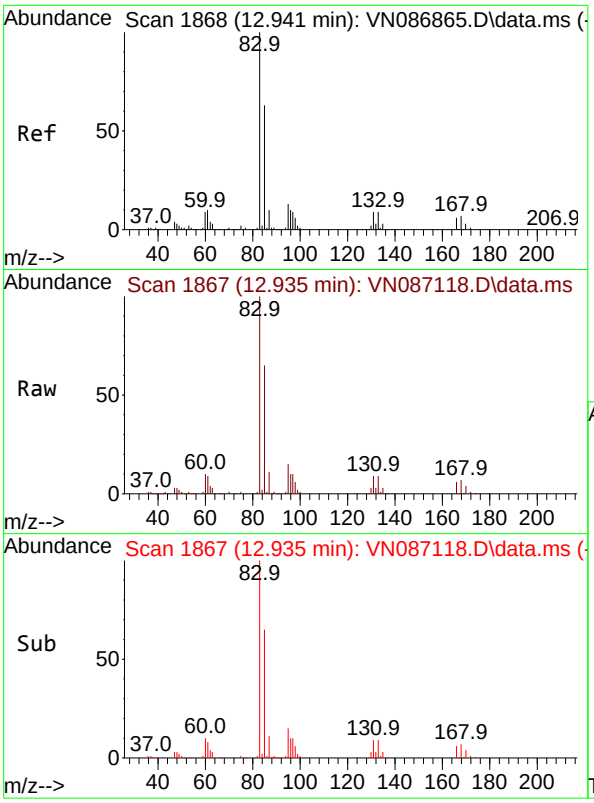


#74
N-amyl acetate
Concen: 45.621 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 43 Resp: 169068

Ion	Ratio	Lower	Upper
43	100		
70	51.9	37.6	56.4
55	26.8	19.0	28.6
61	26.5	20.8	31.2



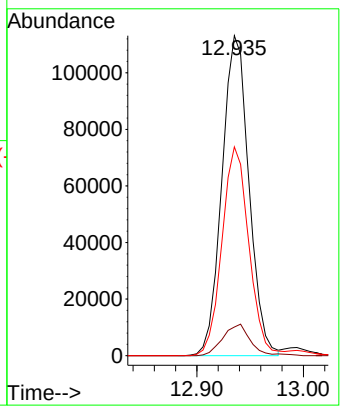


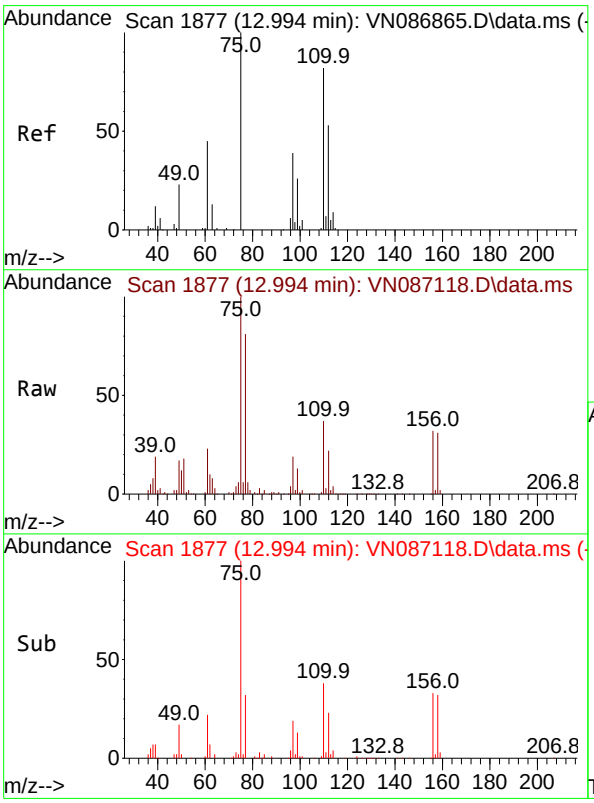
#75
1,1,2,2-Tetrachloroethane
Concen: 55.457 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 83 Resp: 199250

Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.9	14.7
85	64.9	32.0	96.0

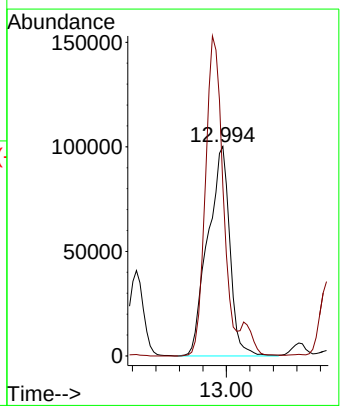


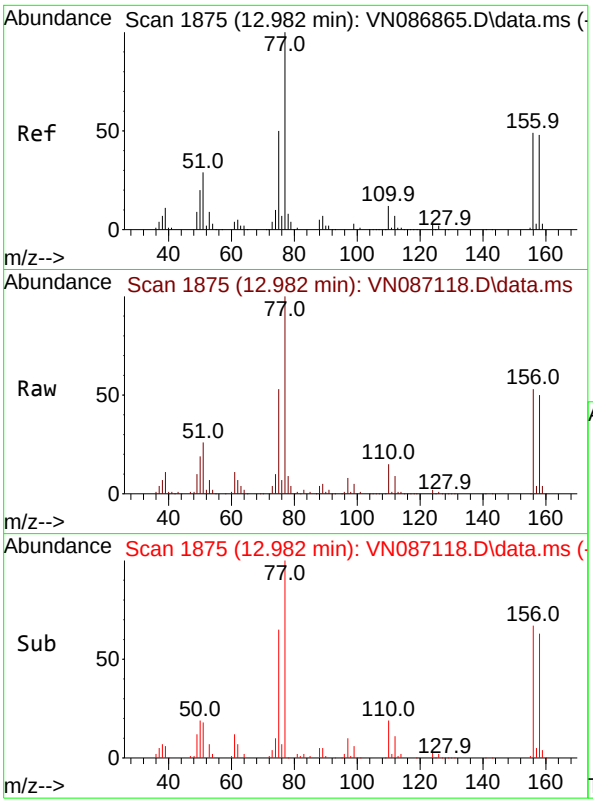


#76
1,2,3-Trichloropropane
Concen: 75.136 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 75 Resp: 260001

Ion	Ratio	Lower	Upper
75	100		
77	121.1	79.3	237.9



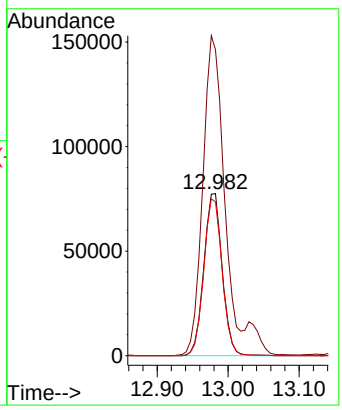


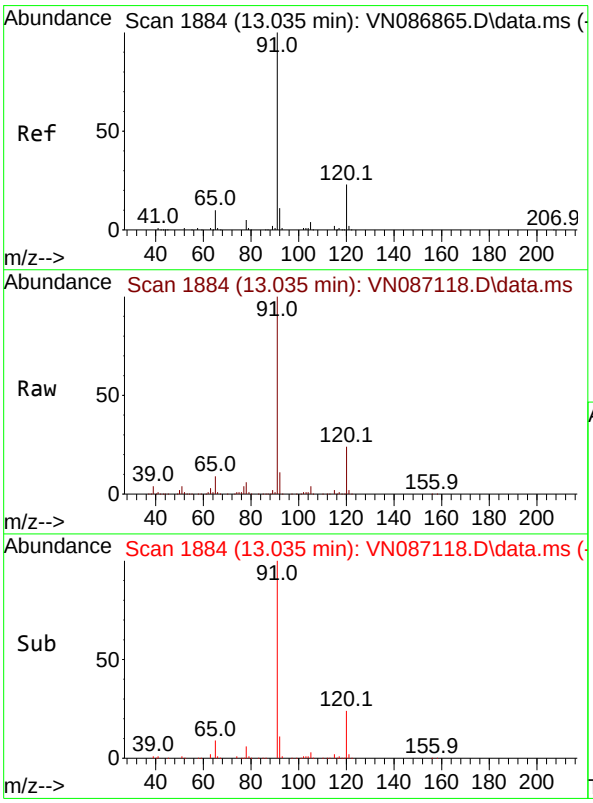
#77
Bromobenzene
Concen: 57.381 ug/l
RT: 12.982 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:156 Resp: 139561

Ion	Ratio	Lower	Upper
156	100		
77	225.7	117.7	353.1
158	96.5	48.1	144.4

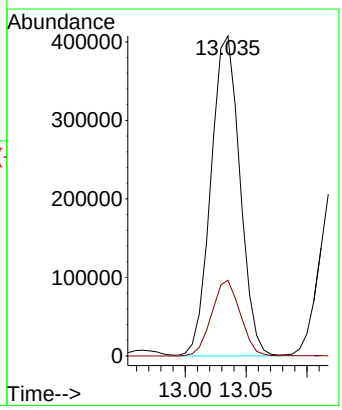


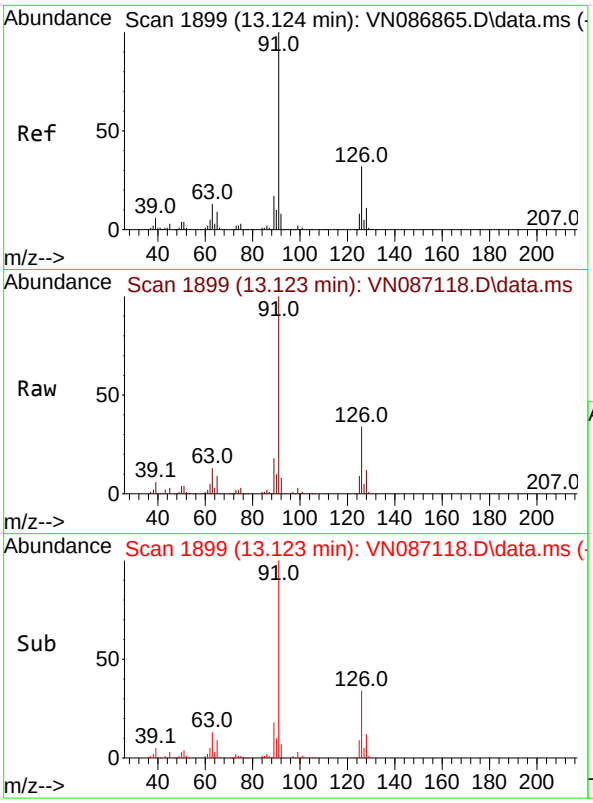


#78
n-propylbenzene
Concen: 52.413 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 91 Resp: 675516

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.4	34.2



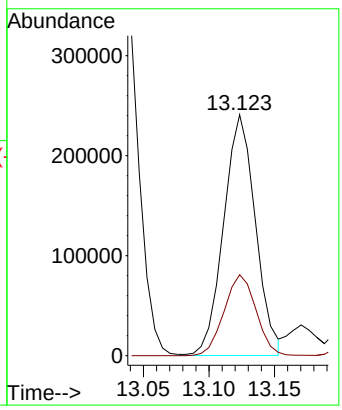


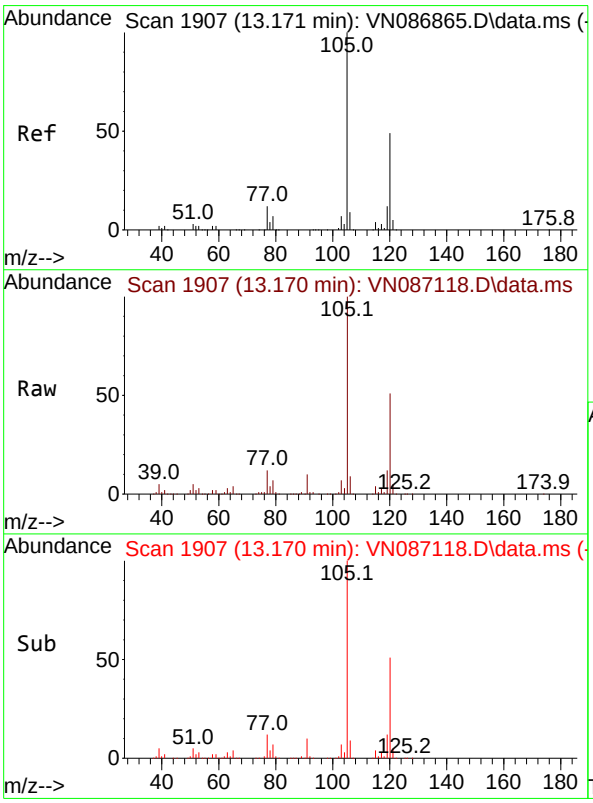
#79
2-Chlorotoluene
Concen: 52.721 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 91 Resp: 407496

Ion	Ratio	Lower	Upper
91	100		
126	33.7	16.2	48.5

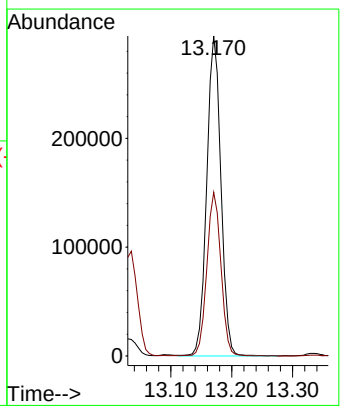


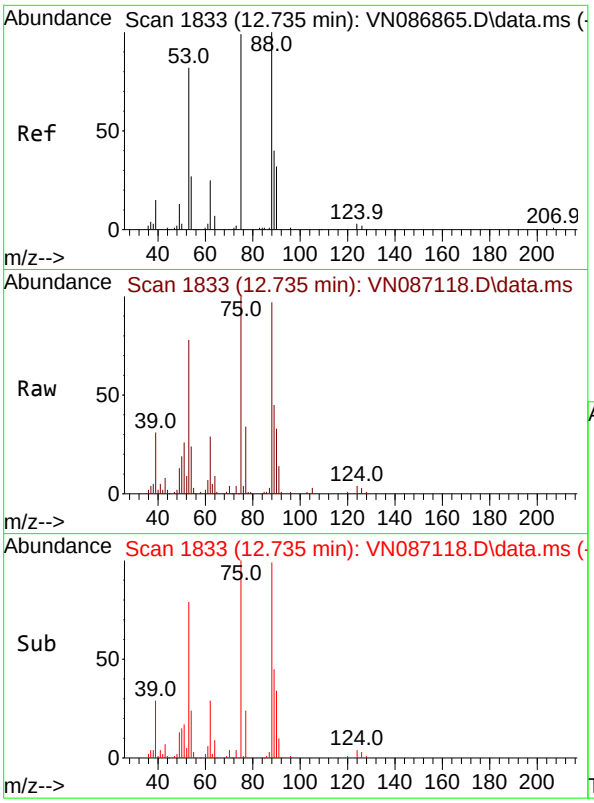


#80
1,3,5-Trimethylbenzene
Concen: 54.335 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:105 Resp: 475753

Ion	Ratio	Lower	Upper
105	100		
120	50.8	24.9	74.6



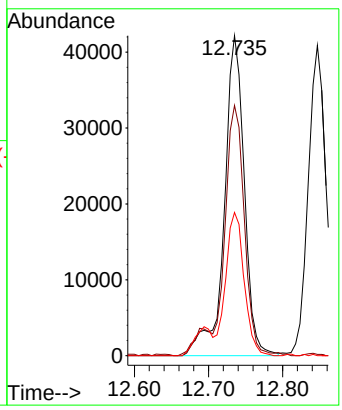


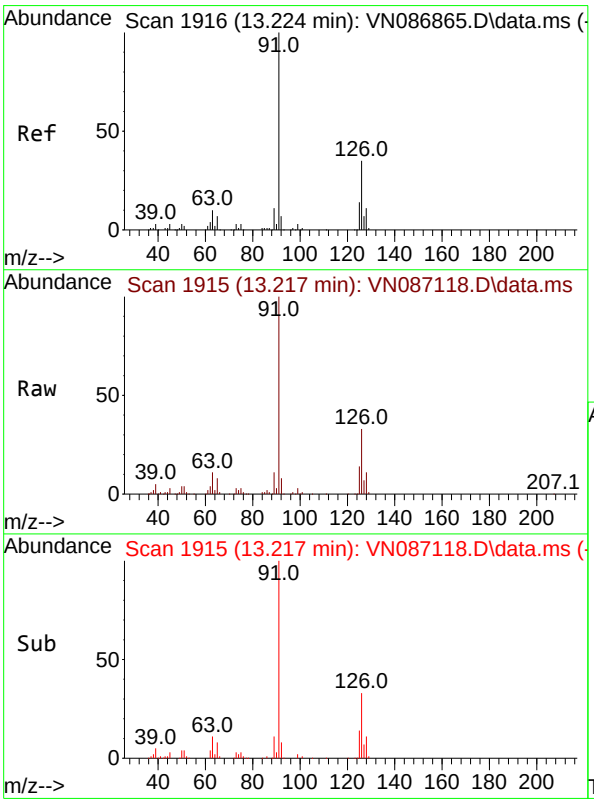
#81
trans-1,4-Dichloro-2-butene
Concen: 52.787 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 75 Resp: 79351

Ion	Ratio	Lower	Upper
75	100		
53	73.7	66.6	99.8
89	41.4	36.7	55.1

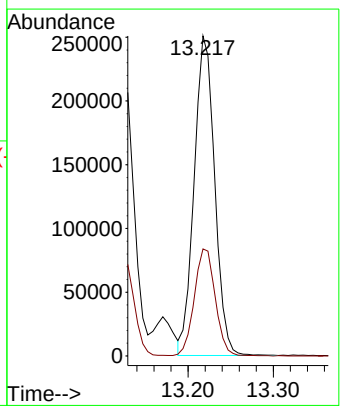


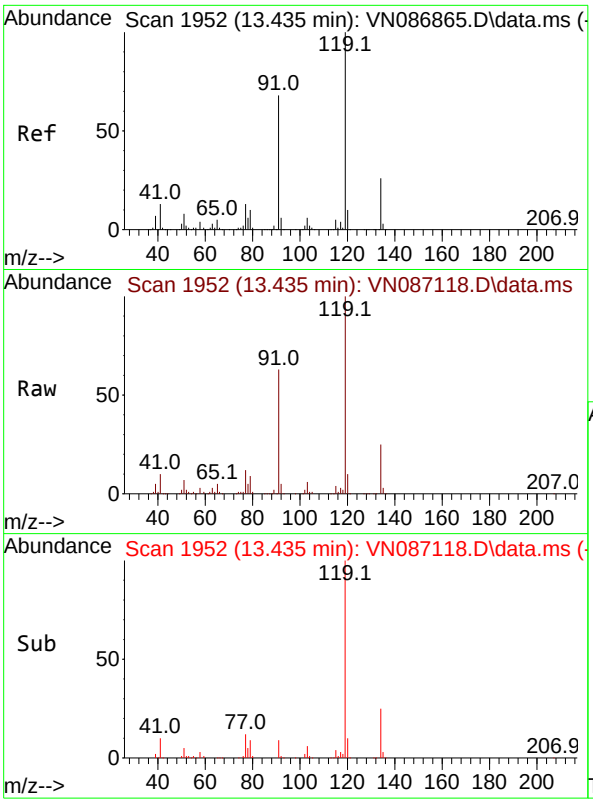


#82
4-Chlorotoluene
Concen: 53.678 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 91 Resp: 419800

Ion	Ratio	Lower	Upper
91	100		
126	34.3	16.7	50.1



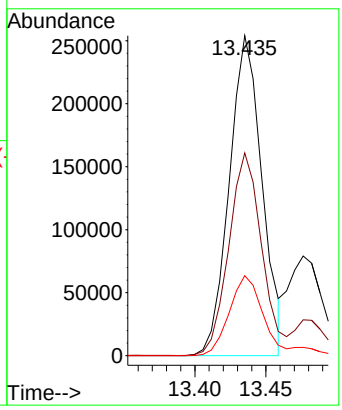


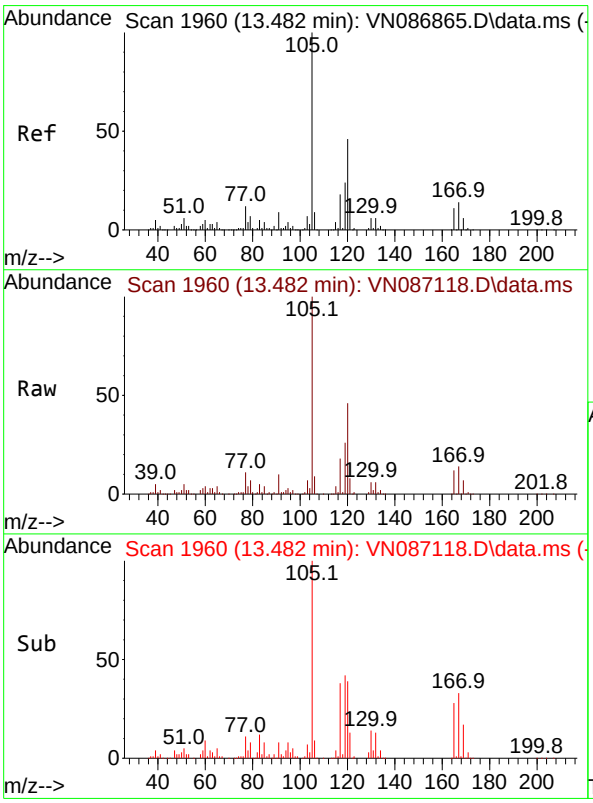
#83
tert-Butylbenzene
Concen: 50.876 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:119 Resp: 407771

Ion	Ratio	Lower	Upper
119	100		
91	63.9	32.1	96.5
134	27.4	13.4	40.1

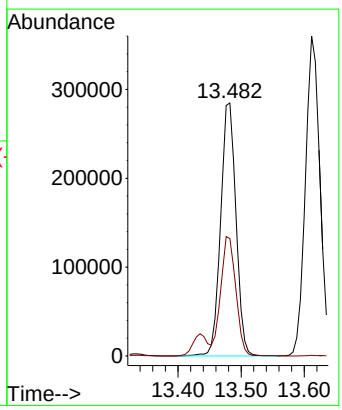


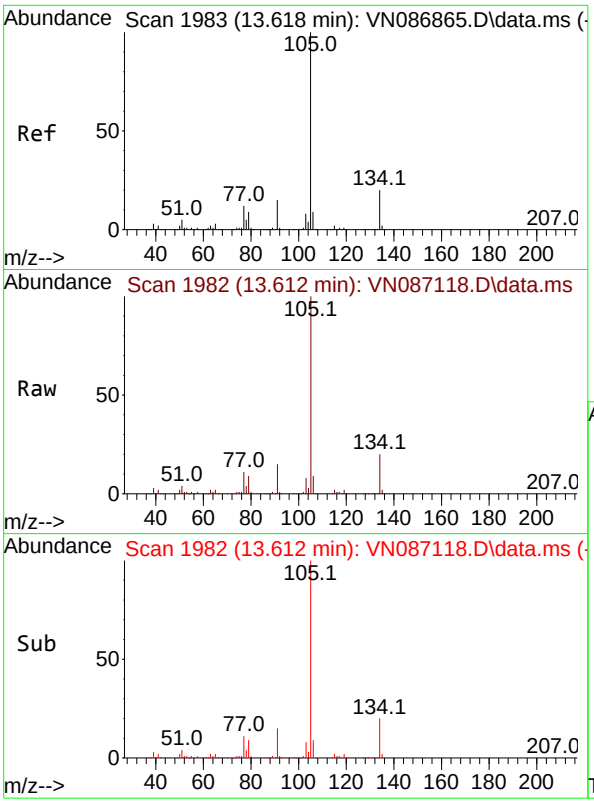


#84
1,2,4-Trimethylbenzene
Concen: 54.733 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:105 Resp: 480566

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.2	69.6



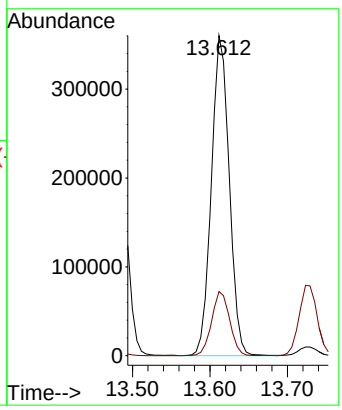


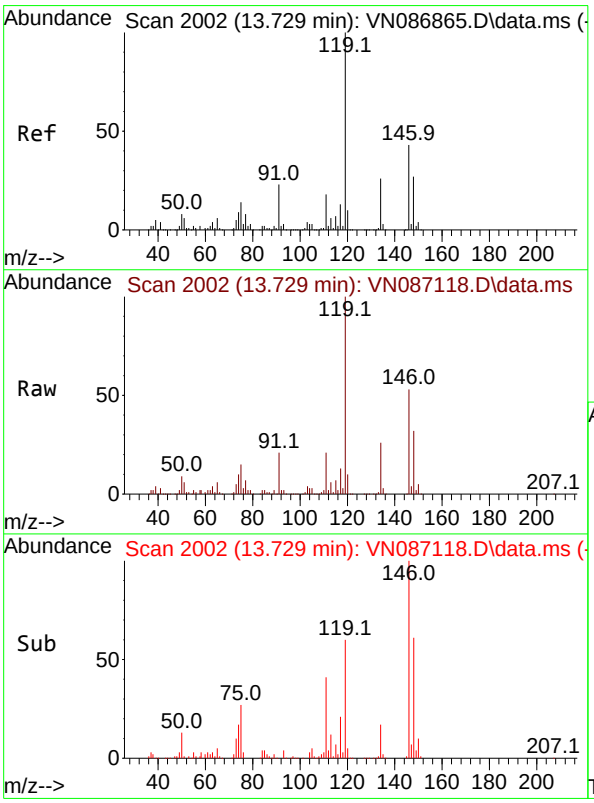
#85
sec-Butylbenzene
Concen: 49.567 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:105 Resp: 576942

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0

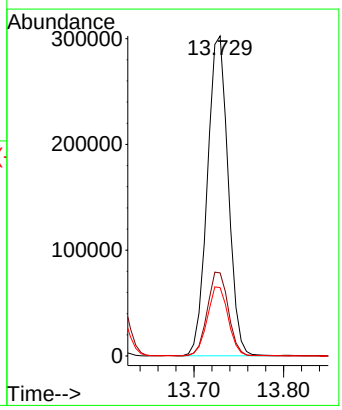


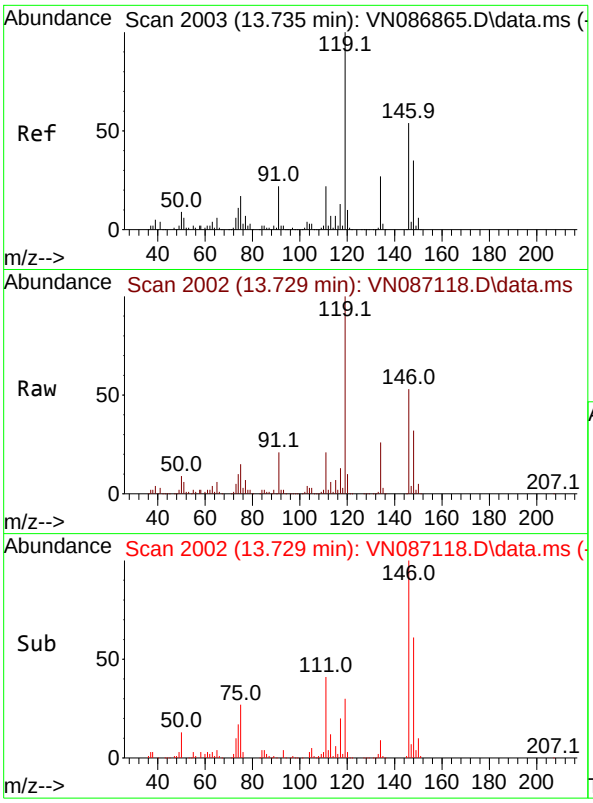


#86
p-Isopropyltoluene
Concen: 50.571 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:119 Resp: 486569

Ion	Ratio	Lower	Upper
119	100		
134	26.5	13.5	40.4
91	21.7	11.5	34.4



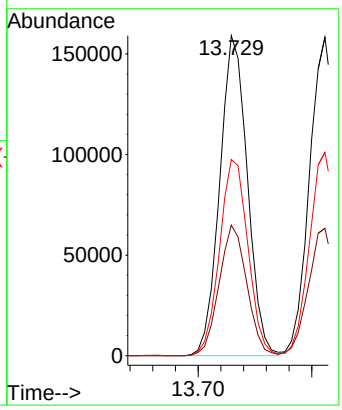


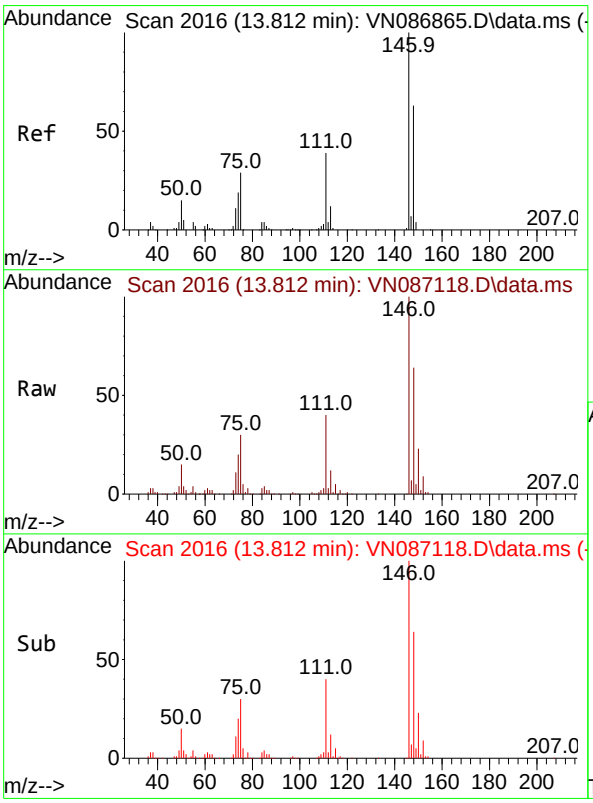
#87
1,3-Dichlorobenzene
Concen: 56.190 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:146 Resp: 268884

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.9	62.8
148	63.0	32.0	96.2

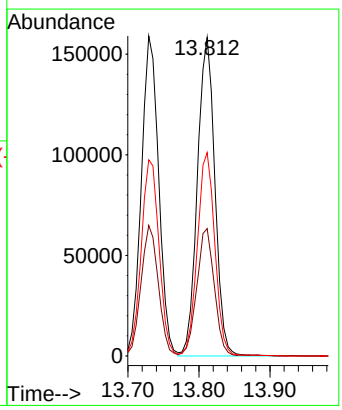


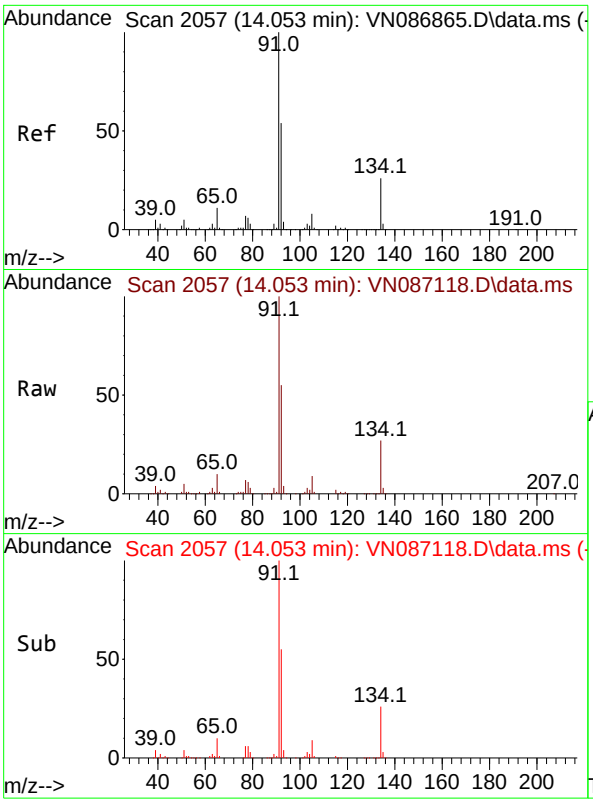


#88
1,4-Dichlorobenzene
Concen: 55.596 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:146 Resp: 271234

Ion	Ratio	Lower	Upper
146	100		
111	39.9	19.9	59.7
148	64.0	31.8	95.4



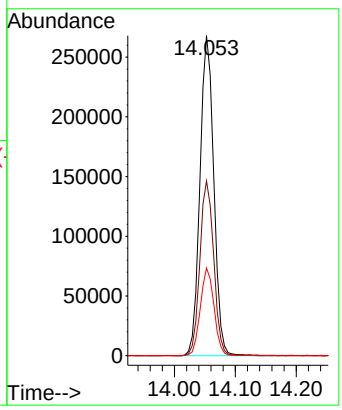


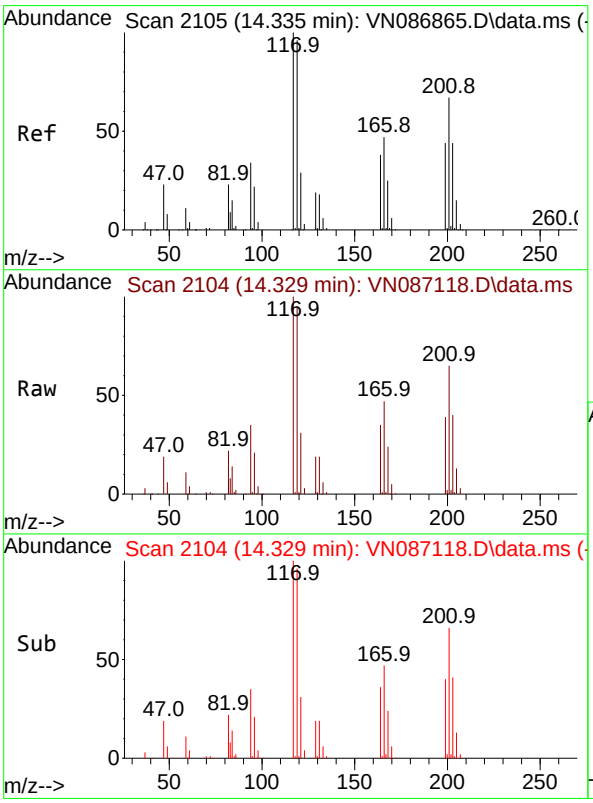
#89
n-Butylbenzene
Concen: 45.329 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 91 Resp: 422443

Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.5	82.4
134	27.1	13.0	39.0

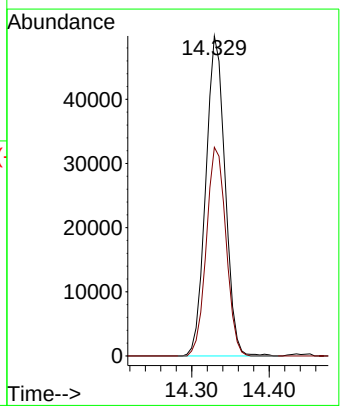


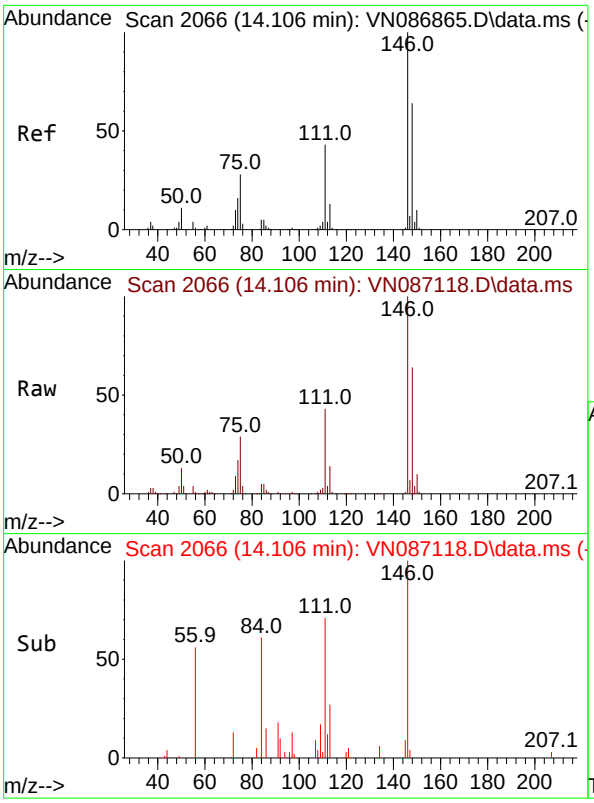


#90
Hexachloroethane
Concen: 52.807 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:117 Resp: 86124

Ion	Ratio	Lower	Upper
117	100		
201	66.4	33.2	99.6



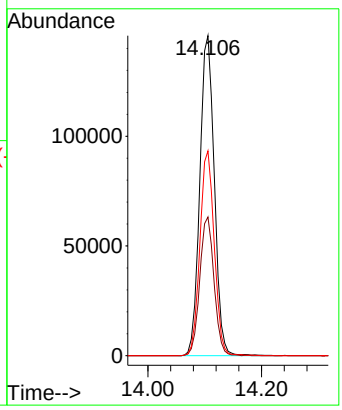


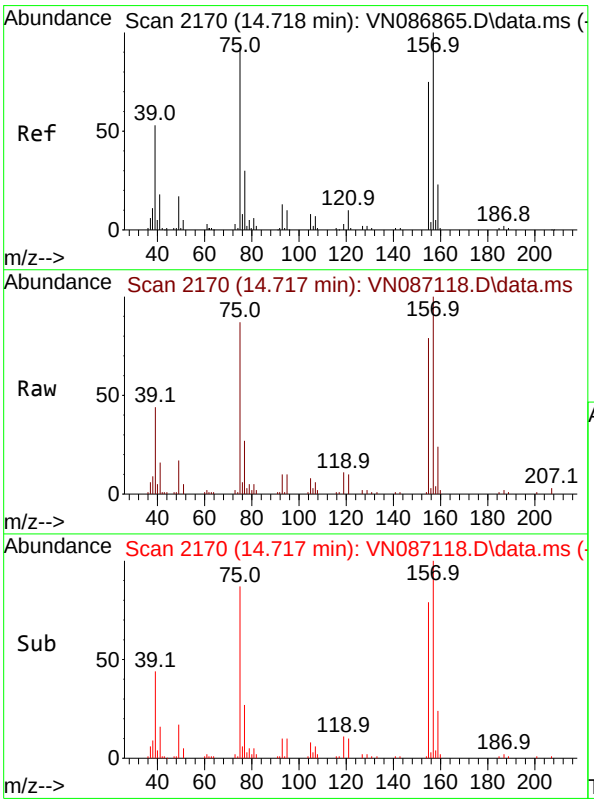
#91
1,2-Dichlorobenzene
Concen: 56.151 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:146 Resp: 258146

Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.6	64.6
148	63.4	31.7	95.1

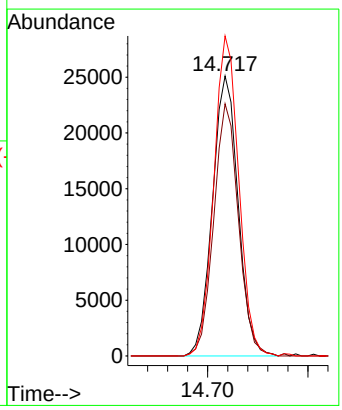


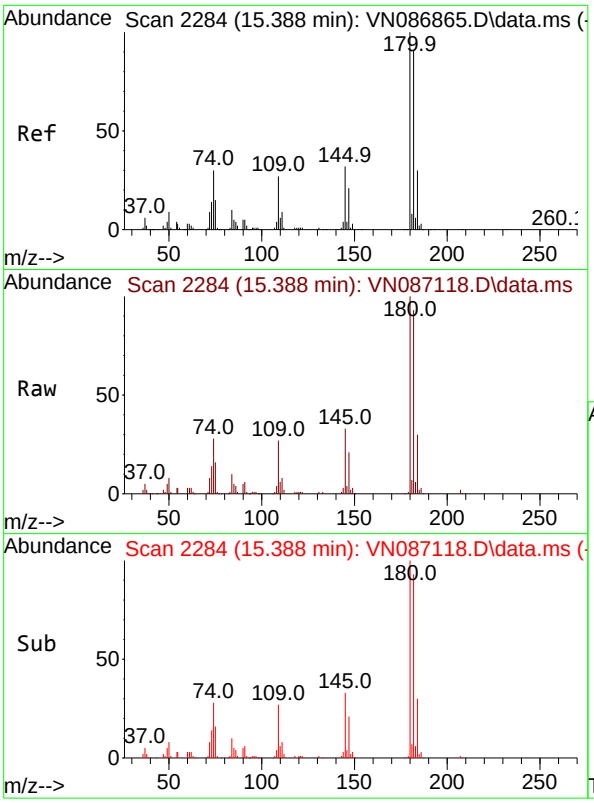


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.011 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion: 75 Resp: 44690

Ion	Ratio	Lower	Upper
75	100		
155	86.6	41.1	123.4
157	110.7	52.7	158.1



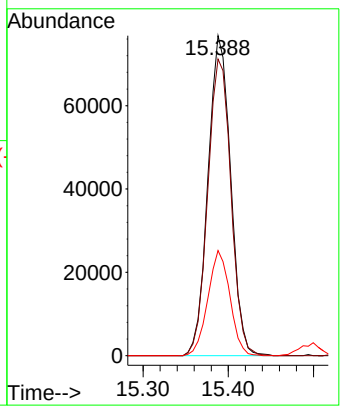


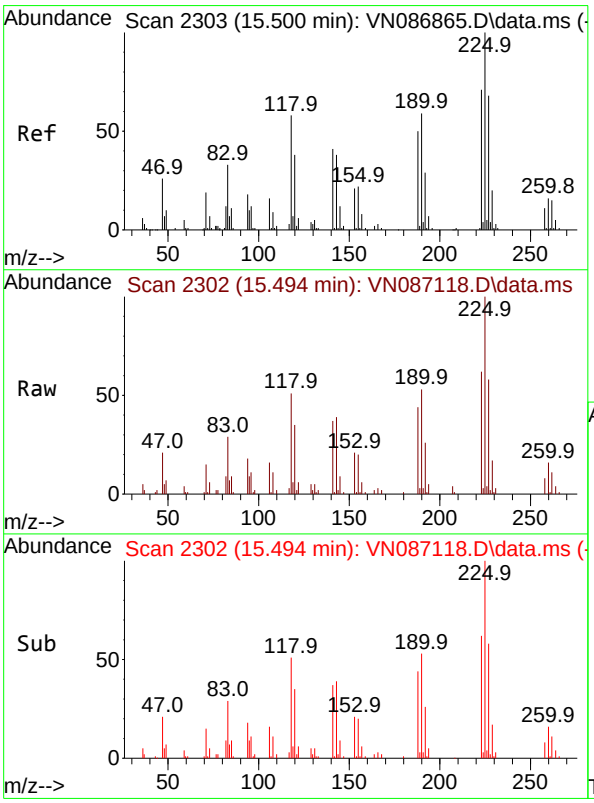
#93
1,2,4-Trichlorobenzene
Concen: 48.271 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:180 Resp: 141709

Ion	Ratio	Lower	Upper
180	100		
182	94.8	46.9	140.7
145	32.1	16.0	47.9

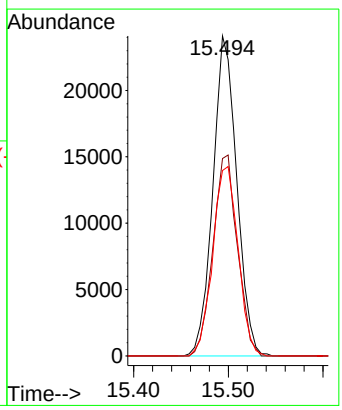


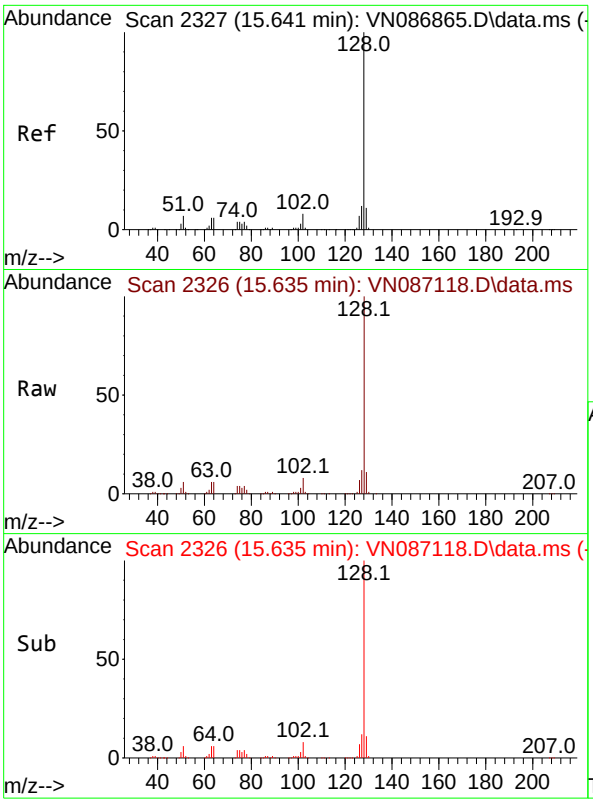


#94
Hexachlorobutadiene
Concen: 38.570 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:225 Resp: 42186

Ion	Ratio	Lower	Upper
225	100		
223	64.4	33.5	100.4
227	62.9	31.1	93.5



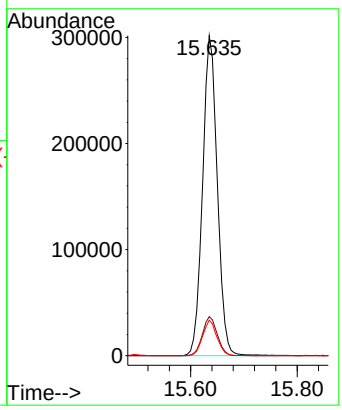


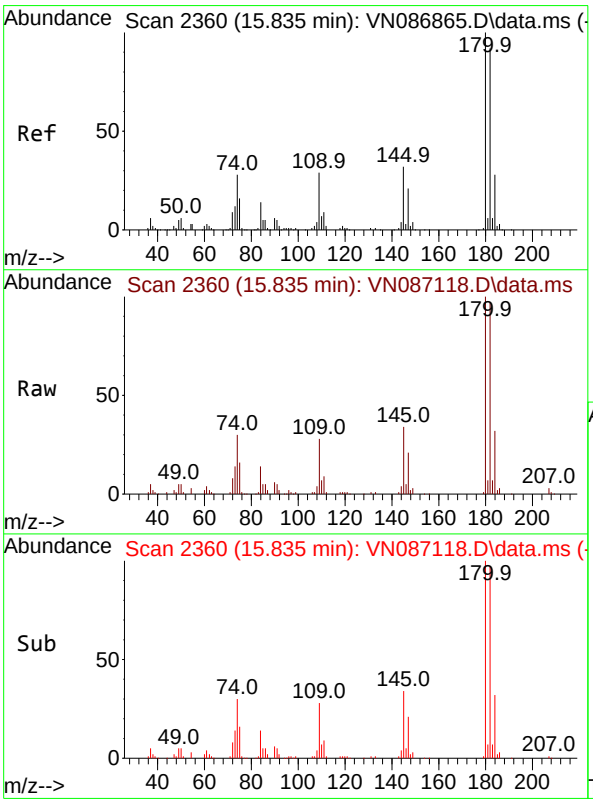
#95
Naphthalene
Concen: 52.869 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:128 Resp: 577711

Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.2	15.2
129	10.8	8.8	13.2

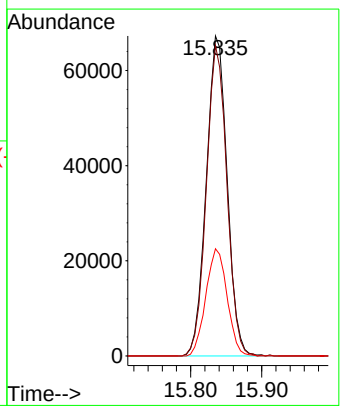




#96
1,2,3-Trichlorobenzene
Concen: 47.084 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087118.D
Acq: 19 Jun 2025 17:31

Tgt Ion:180 Resp: 137332

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.0	141.0
145	34.2	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087119.D
Acq On : 19 Jun 2025 17:52
Operator : JC\MD
Sample : Q2329-12MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Quant Time: Jun 20 01:30:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	177485	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	324249	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	281966	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	142178	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	106321	44.742	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.480%		
35) Dibromofluoromethane	8.171	113	94304	49.076	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.160%		
50) Toluene-d8	10.565	98	349005	45.879	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.760%		
62) 4-Bromofluorobenzene	12.847	95	131657	46.584	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	93.160%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	91097	51.478	ug/l	99
3) Chloromethane	2.395	50	103151	45.140	ug/l	99
4) Vinyl Chloride	2.554	62	132183	56.075	ug/l	99
5) Bromomethane	2.989	94	71309	54.057	ug/l	92
6) Chloroethane	3.154	64	84512	55.503	ug/l	93
7) Trichlorofluoromethane	3.530	101	168464	54.699	ug/l	100
8) Diethyl Ether	3.983	74	74805	55.746	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.395	101	103505	53.492	ug/l	99
10) Methyl Iodide	4.612	142	92527	36.888	ug/l	98
11) Tert butyl alcohol	5.536	59	156895	243.326	ug/l	98
12) 1,1-Dichloroethene	4.371	96	109245	55.301	ug/l	93
13) Acrolein	4.200	56	42318	207.340	ug/l	100
14) Allyl chloride	5.048	41	153558	46.871	ug/l	95
15) Acrylonitrile	5.736	53	381061	252.842	ug/l	99
16) Acetone	4.448	43	286922	227.682	ug/l	100
17) Carbon Disulfide	4.736	76	309512	56.642	ug/l	99
18) Methyl Acetate	5.048	43	151644	41.293	ug/l	96
19) Methyl tert-butyl Ether	5.812	73	374361	52.338	ug/l	98
20) Methylene Chloride	5.295	84	125128	53.036	ug/l	93
21) trans-1,2-Dichloroethene	5.812	96	117148	53.301	ug/l	92
22) Diisopropyl ether	6.683	45	340365	49.286	ug/l	96
23) Vinyl Acetate	6.618	43	1432710	245.547	ug/l	97
24) 1,1-Dichloroethane	6.583	63	213618	53.751	ug/l	100
25) 2-Butanone	7.489	43	478559	233.627	ug/l	96
26) 2,2-Dichloropropane	7.500	77	158168	51.163	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	141666	53.896	ug/l	96
28) Bromochloromethane	7.824	49	86952	44.499	ug/l	92
29) Tetrahydrofuran	7.847	42	311959	233.785	ug/l	94
30) Chloroform	7.977	83	208999	52.659	ug/l	96
31) Cyclohexane	8.265	56	182112	47.251	ug/l	94
32) 1,1,1-Trichloroethane	8.177	97	178740	52.950	ug/l	97
36) 1,1-Dichloropropene	8.377	75	153809	53.717	ug/l	98
37) Ethyl Acetate	7.565	43	173325	47.551	ug/l	99
38) Carbon Tetrachloride	8.371	117	150377	53.493	ug/l	98
39) Methylcyclohexane	9.606	83	174796	44.558	ug/l	97
40) Benzene	8.612	78	497556	53.139	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087119.D
Acq On : 19 Jun 2025 17:52
Operator : JC\MD
Sample : Q2329-12MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Quant Time: Jun 20 01:30:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.789	41	93397	45.624	ug/l		90
42) 1,2-Dichloroethane	8.677	62	146825	51.700	ug/l		100
43) Isopropyl Acetate	8.694	43	269980	46.148	ug/l		95
44) Trichloroethene	9.359	130	206823	93.156	ug/l		97
45) 1,2-Dichloropropane	9.624	63	119679	52.538	ug/l		98
46) Dibromomethane	9.712	93	82681	54.645	ug/l		99
47) Bromodichloromethane	9.888	83	165037	53.015	ug/l		99
48) Methyl methacrylate	9.682	41	126622	47.024	ug/l		95
49) 1,4-Dioxane	9.700	88	51559	1052.526	ug/l	#	95
51) 4-Methyl-2-Pentanone	10.447	43	869262	246.814	ug/l		98
52) Toluene	10.629	92	307149	53.678	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	182930	52.551	ug/l		99
54) cis-1,3-Dichloropropene	10.312	75	195053	52.369	ug/l		94
55) 1,1,2-Trichloroethane	11.018	97	115996	52.683	ug/l		99
56) Ethyl methacrylate	10.882	69	194990	55.602	ug/l		94
57) 1,3-Dichloropropane	11.165	76	202641	53.055	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.194	63	999	0.478	ug/l	#	46
59) 2-Hexanone	11.200	43	576643	254.185	ug/l		93
60) Dibromochloromethane	11.359	129	128464	56.000	ug/l		99
61) 1,2-Dibromoethane	11.471	107	121399	53.793	ug/l		99
64) Tetrachloroethene	11.106	164	96507	54.082	ug/l		96
65) Chlorobenzene	11.888	112	336372	54.089	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	110949	55.501	ug/l		99
67) Ethyl Benzene	11.965	91	567034	52.935	ug/l		99
68) m/p-Xylenes	12.071	106	451077	110.005	ug/l		97
69) o-Xylene	12.394	106	219362	55.857	ug/l		95
70) Styrene	12.412	104	373229	55.538	ug/l		98
71) Bromoform	12.576	173	85568	57.770	ug/l	#	100
73) Isopropylbenzene	12.694	105	535971	51.746	ug/l		100
74) N-amyl acetate	12.512	43	154996	42.823	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.935	83	184105	52.467	ug/l		98
76) 1,2,3-Trichloropropane	12.988	75	240655	71.208	ug/l		71
77) Bromobenzene	12.976	156	130562	54.964	ug/l		94
78) n-propylbenzene	13.035	91	625891	49.723	ug/l		99
79) 2-Chlorotoluene	13.123	91	380272	50.375	ug/l		97
80) 1,3,5-Trimethylbenzene	13.171	105	437368	51.145	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	73016	49.733	ug/l		90
82) 4-Chlorotoluene	13.218	91	391800	51.295	ug/l		98
83) tert-Butylbenzene	13.435	119	378819	48.393	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	445991	52.009	ug/l		100
85) sec-Butylbenzene	13.612	105	538763	47.394	ug/l		100
86) p-Isopropyltoluene	13.723	119	449281	47.811	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	247185	52.890	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	253319	53.165	ug/l		99
89) n-Butylbenzene	14.053	91	389128	42.752	ug/l		99
90) Hexachloroethane	14.329	117	80747	50.694	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	236809	52.741	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	41104	48.981	ug/l		95
93) 1,2,4-Trichlorobenzene	15.388	180	134773	47.005	ug/l		100
94) Hexachlorobutadiene	15.500	225	39567	37.040	ug/l		99
95) Naphthalene	15.635	128	535992	50.223	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	129799	45.564	ug/l		100

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087119.D
Acq On : 19 Jun 2025 17:52
Operator : JC\MD
Sample : Q2329-12MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Quant Time: Jun 20 01:30:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

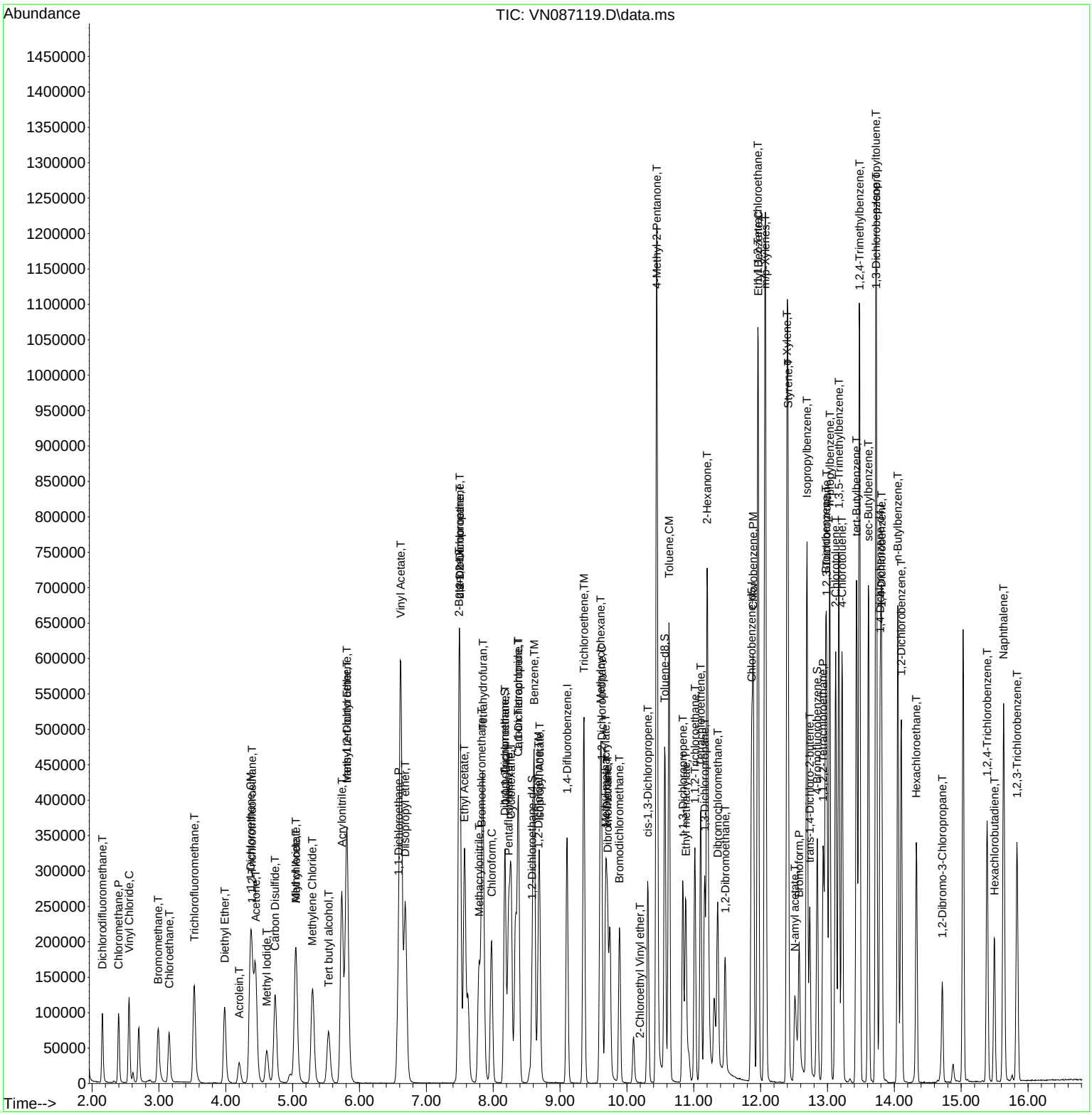
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

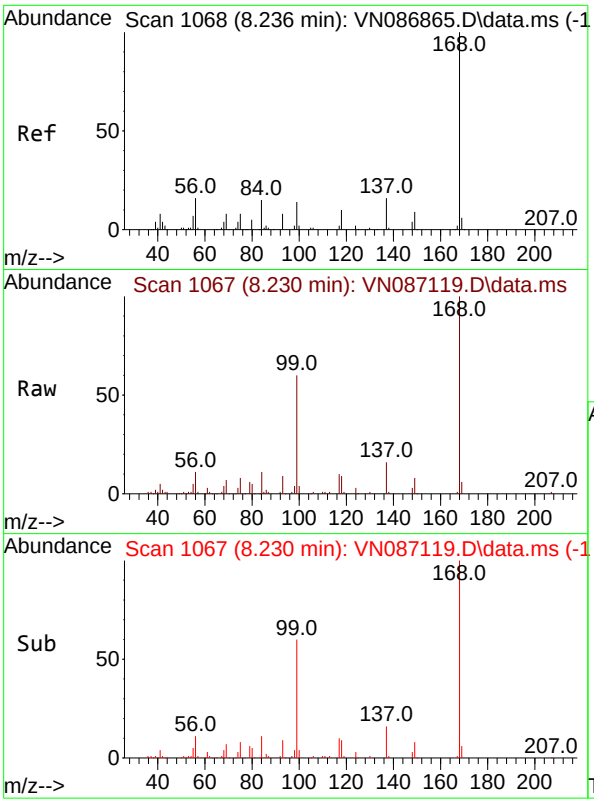
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087119.D
Acq On : 19 Jun 2025 17:52
Operator : JC\MD
Sample : Q2329-12MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Quant Time: Jun 20 01:30:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



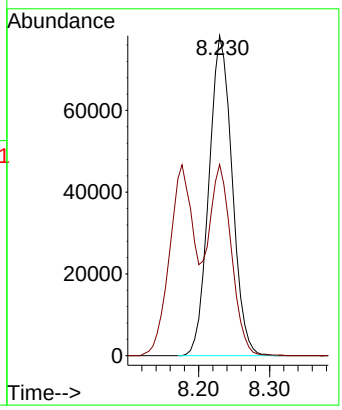


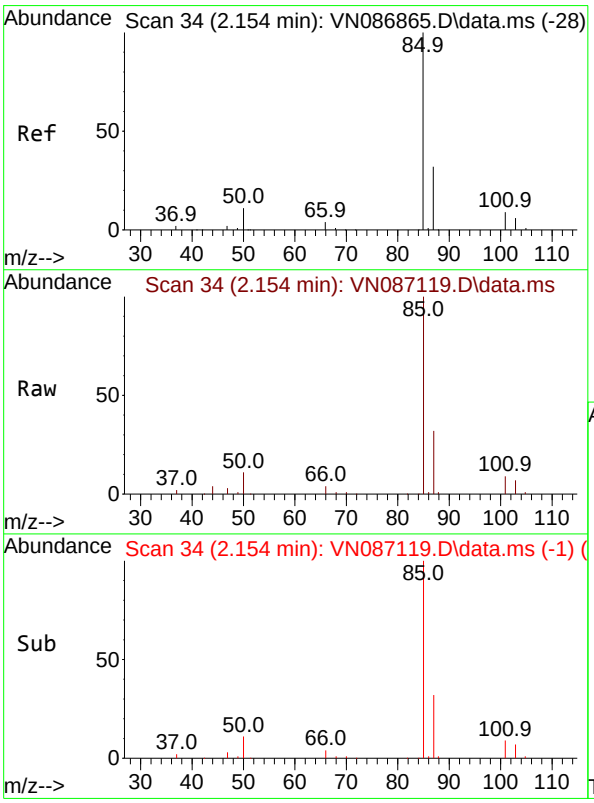
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:168 Resp: 177485

Ion	Ratio	Lower	Upper
168	100		
99	59.6	49.1	73.7

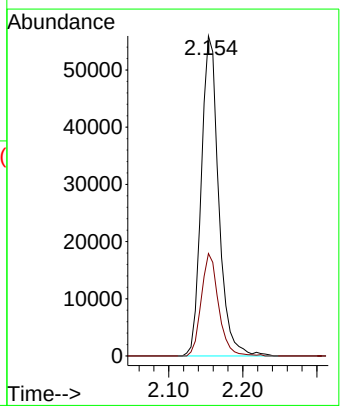


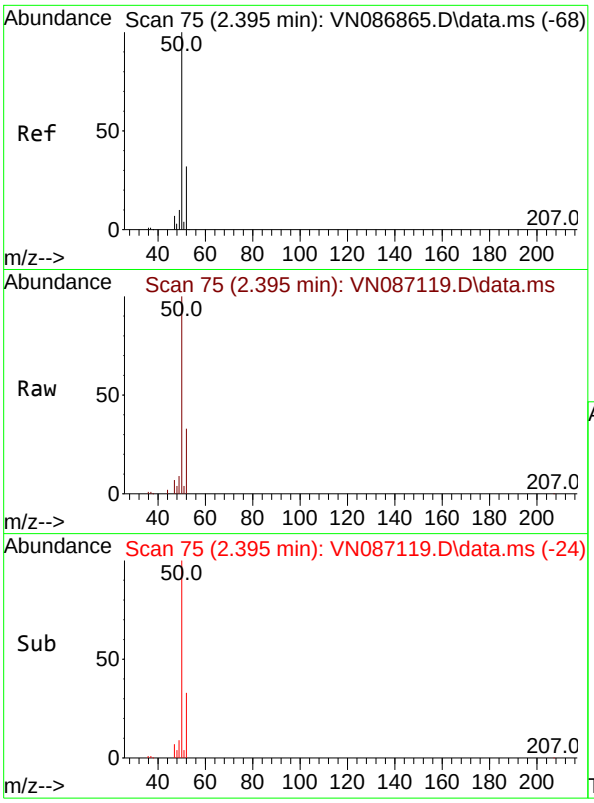


#2
Dichlorodifluoromethane
Concen: 51.478 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 85 Resp: 91097

Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.2	48.6



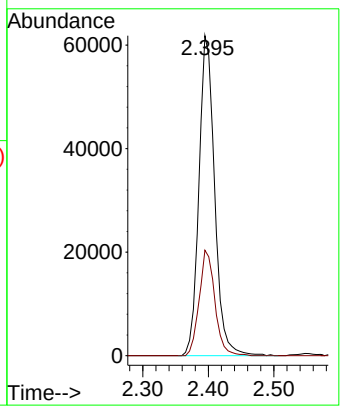


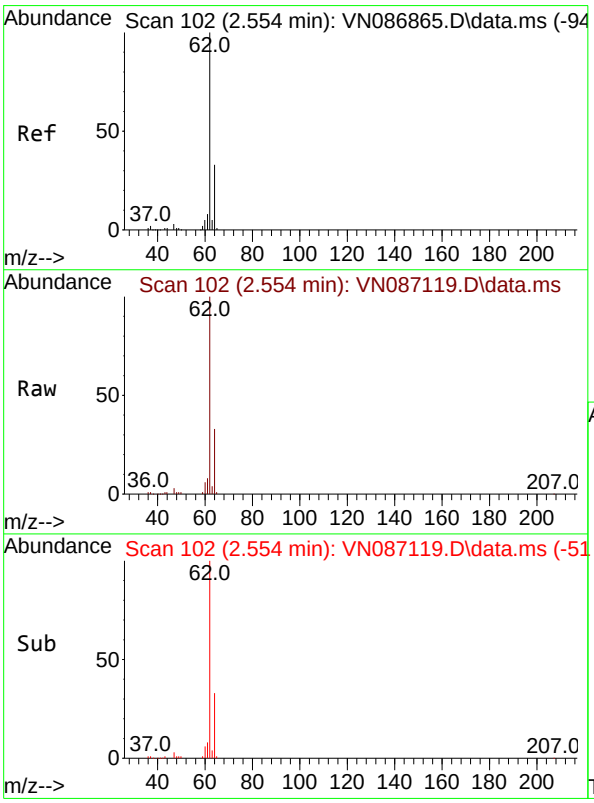
#3
Chloromethane
Concen: 45.140 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 50 Resp: 103151

Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.7	38.5

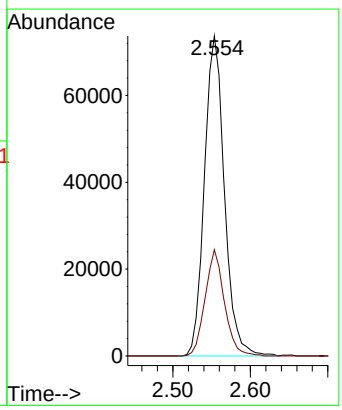


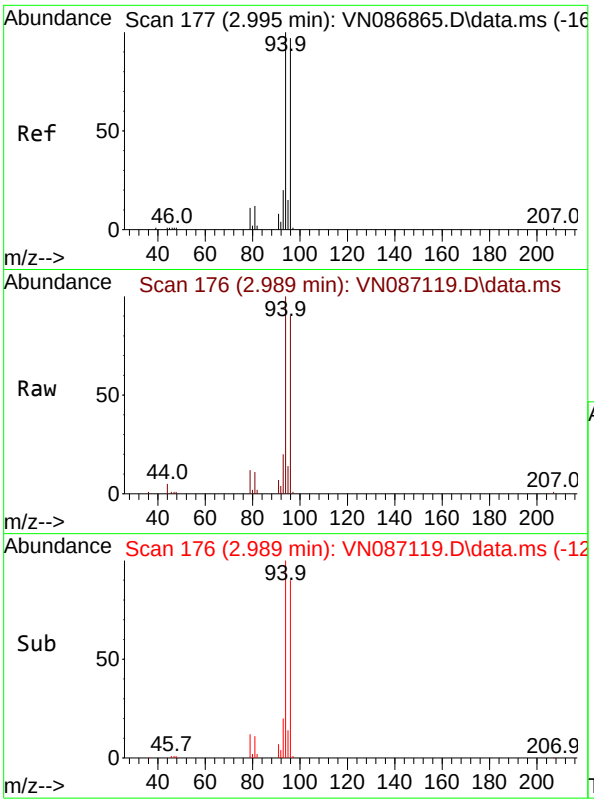


#4
Vinyl Chloride
Concen: 56.075 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 62 Resp: 132183

Ion	Ratio	Lower	Upper
62	100		
64	33.2	26.0	39.0



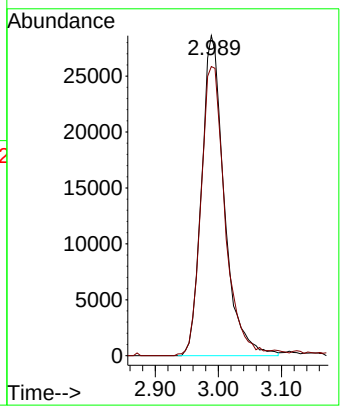


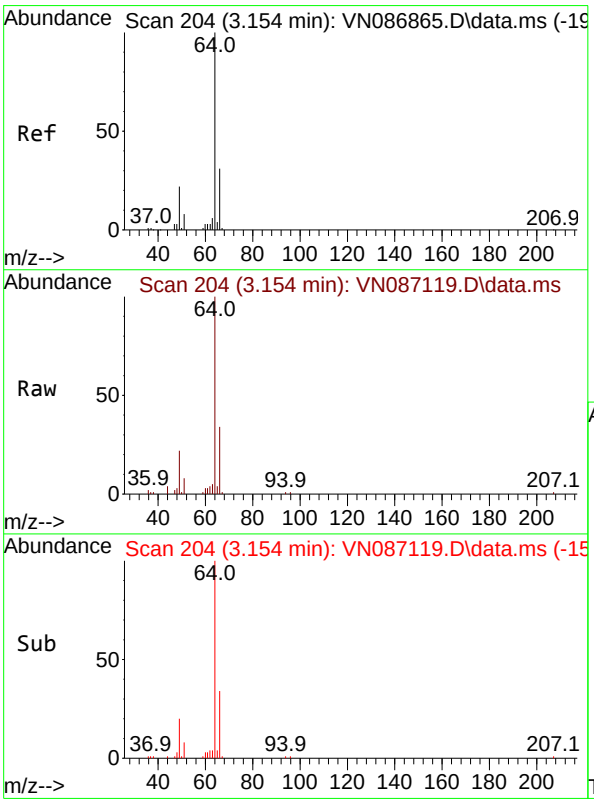
#5
Bromomethane
Concen: 54.057 ug/l
RT: 2.989 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 94 Resp: 71309

Ion	Ratio	Lower	Upper
94	100		
96	89.8	77.9	116.9

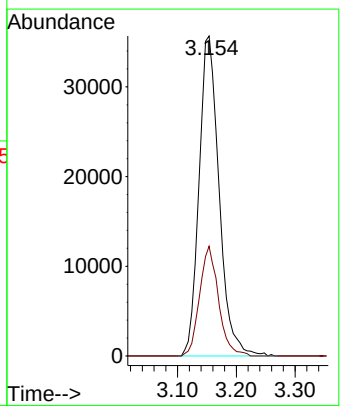


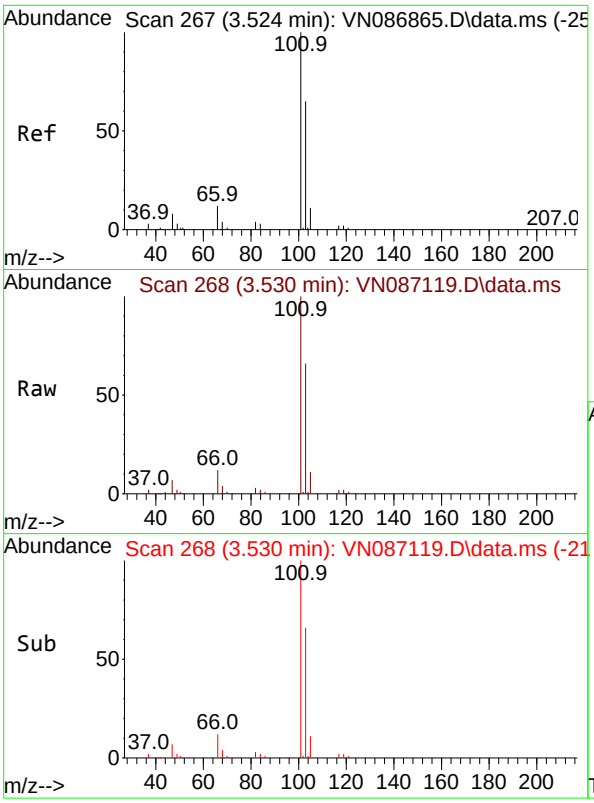


#6
Chloroethane
Concen: 55.503 ug/l
RT: 3.154 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 64 Resp: 84512

Ion	Ratio	Lower	Upper
64	100		
66	34.3	24.6	36.8



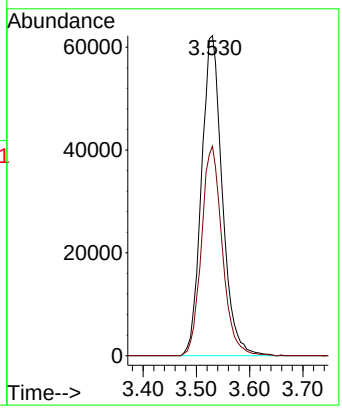


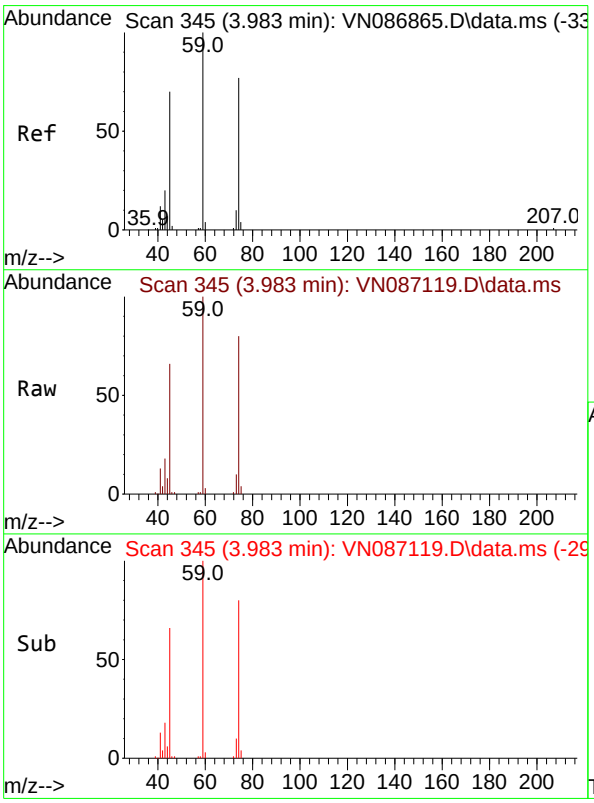
#7
Trichlorofluoromethane
Concen: 54.699 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:101 Resp: 168464

Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.2	78.2

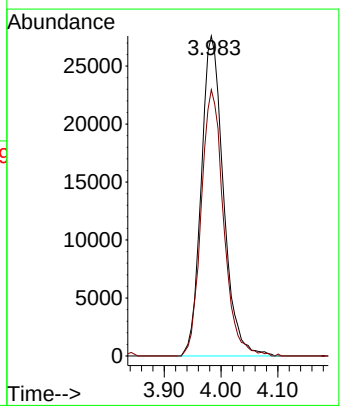


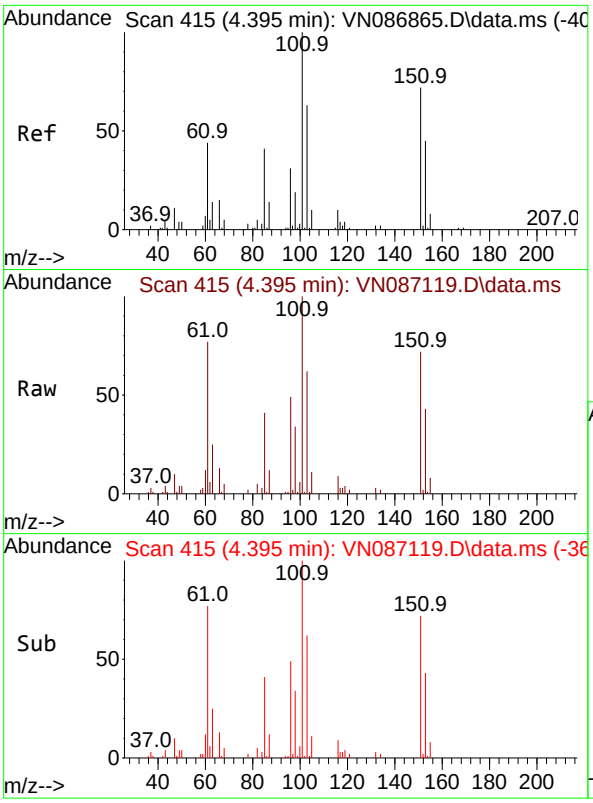


#8
Diethyl Ether
Concen: 55.746 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 74 Resp: 74805

Ion	Ratio	Lower	Upper
74	100		
45	83.7	45.5	136.5



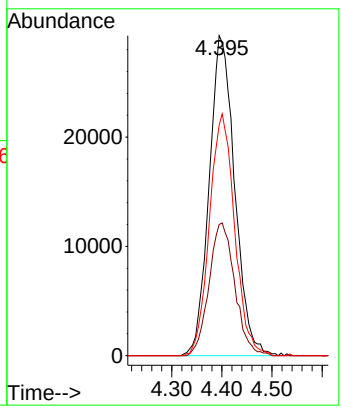


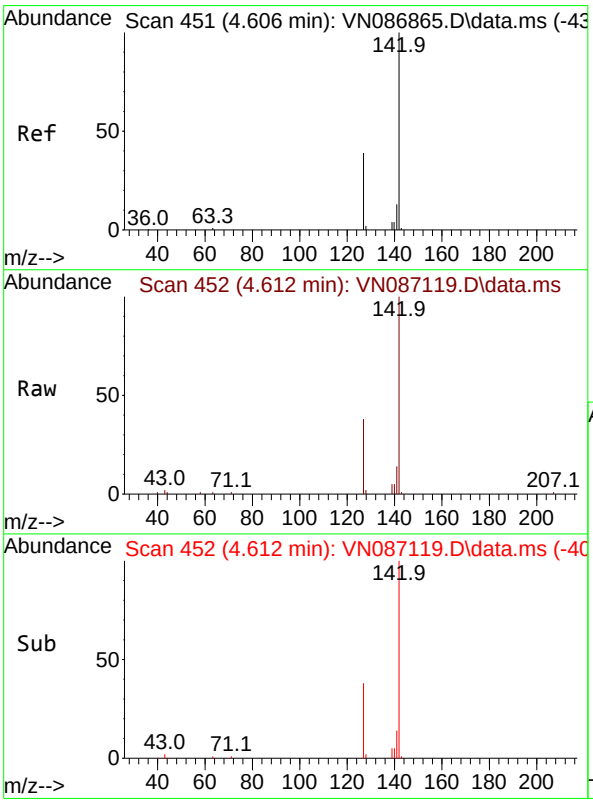
#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.492 ug/l
RT: 4.395 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:101 Resp: 103505

Ion	Ratio	Lower	Upper
101	100		
85	41.9	33.8	50.8
151	74.6	58.7	88.1

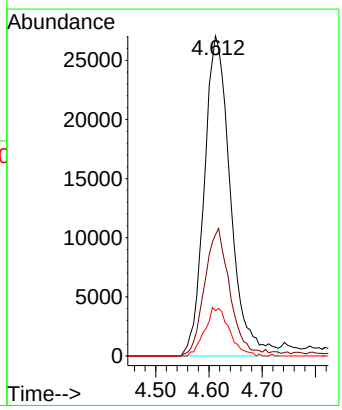


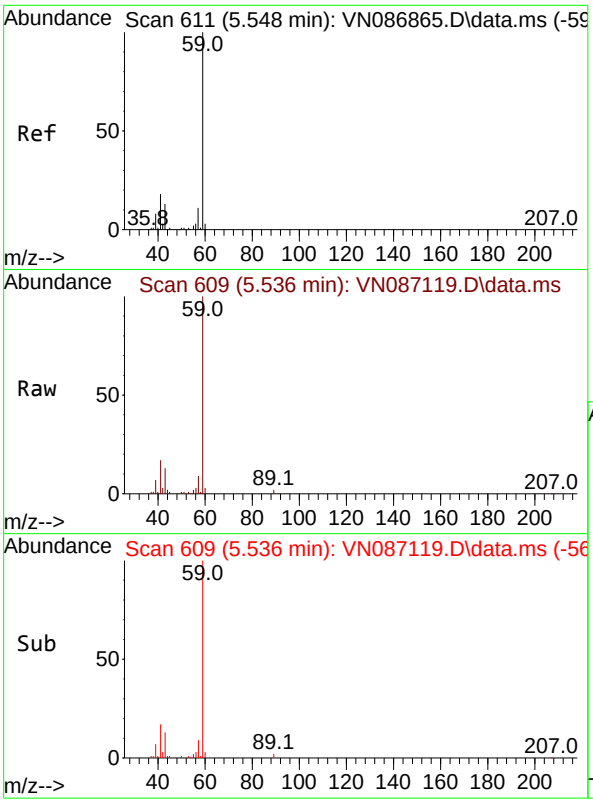


#10
Methyl Iodide
Concen: 36.888 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:142 Resp: 92527

Ion	Ratio	Lower	Upper
142	100		
127	37.9	30.9	46.3
141	14.1	10.4	15.6



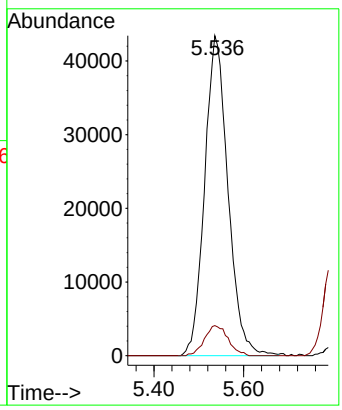


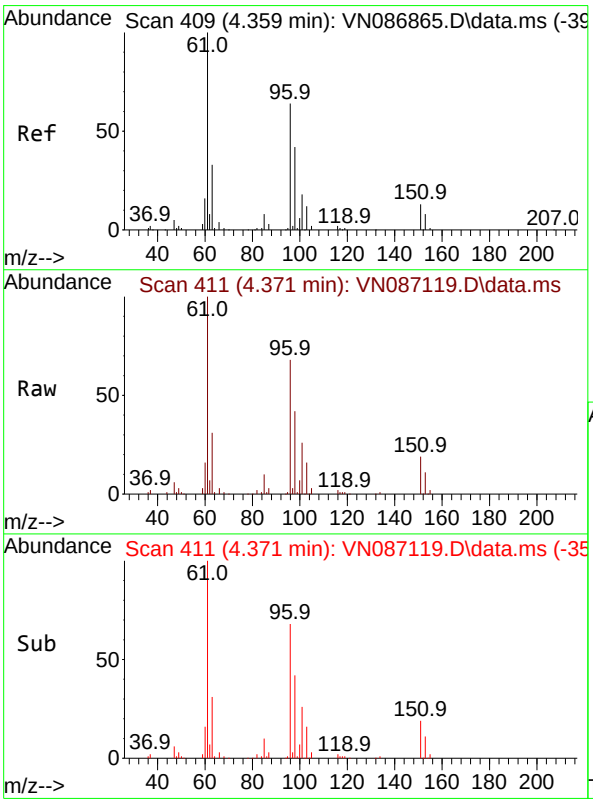
#11
Tert butyl alcohol
Concen: 243.326 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 59 Resp: 156895

Ion	Ratio	Lower	Upper
59	100		
57	9.5	8.1	12.1

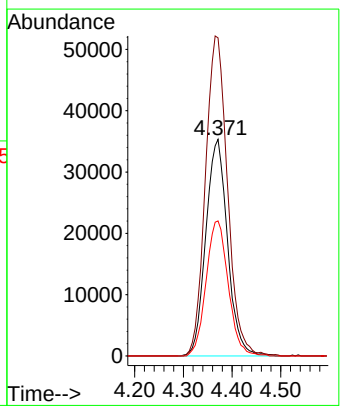


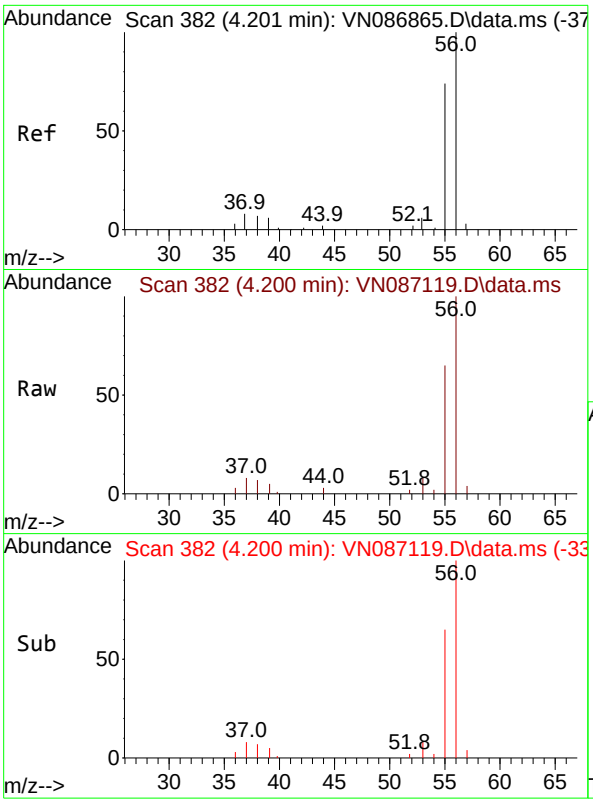


#12
1,1-Dichloroethene
Concen: 55.301 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 96 Resp: 109245

Ion	Ratio	Lower	Upper
96	100		
61	146.9	125.8	188.6
98	62.4	52.5	78.7



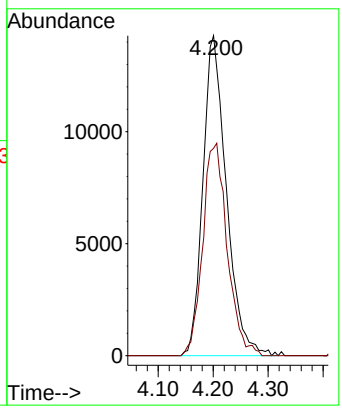


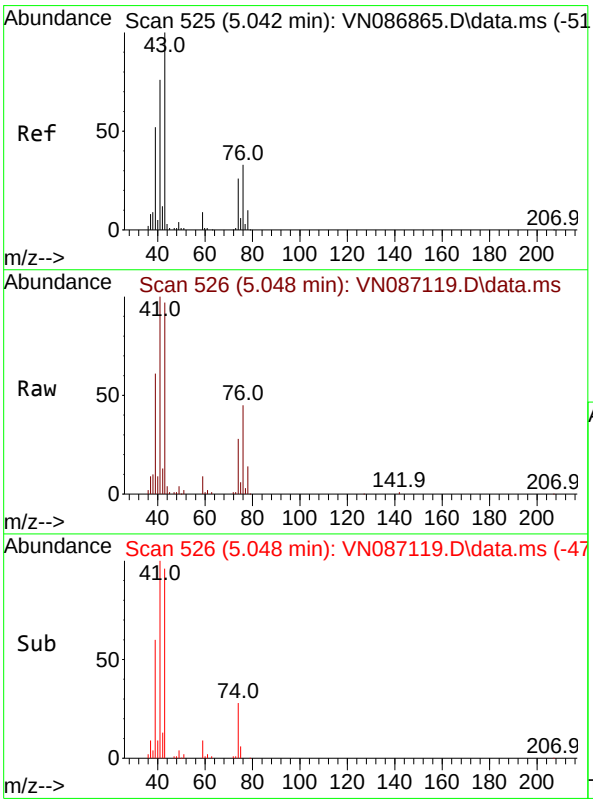
#13
Acrolein
Concen: 207.340 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 56 Resp: 42318

Ion	Ratio	Lower	Upper
56	100		
55	69.3	55.6	83.4

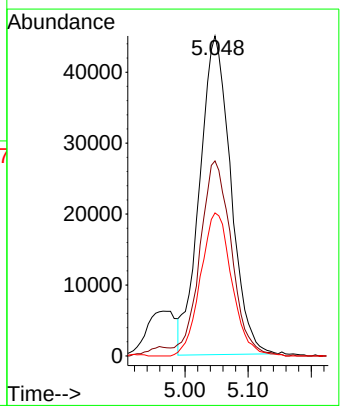


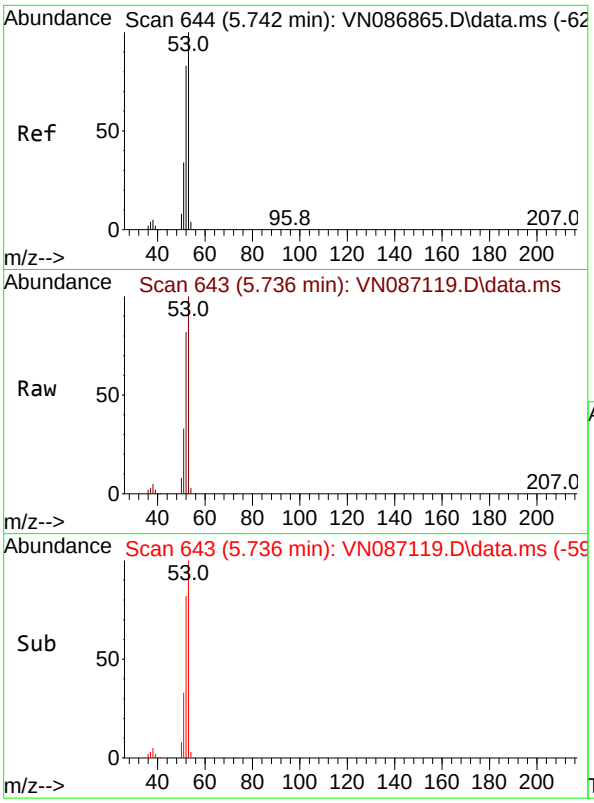


#14
Allyl chloride
Concen: 46.871 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 41 Resp: 153558

Ion	Ratio	Lower	Upper
41	100		
39	62.2	51.3	76.9
76	45.3	31.4	47.0



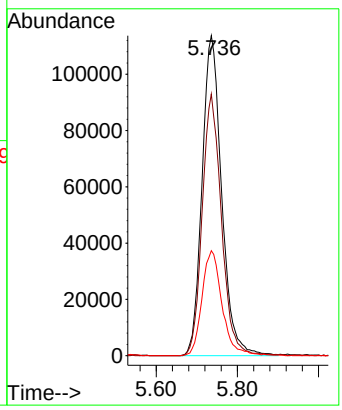


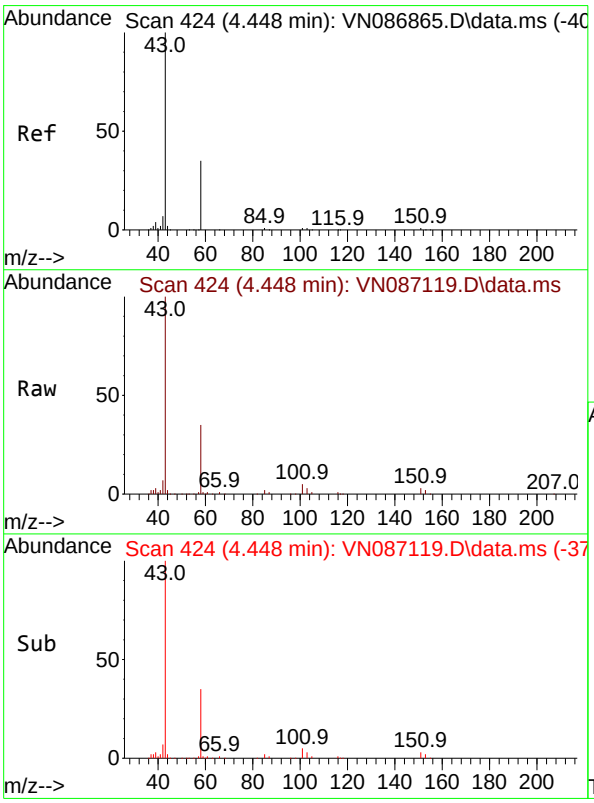
#15
Acrylonitrile
Concen: 252.842 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 53 Resp: 381061

Ion	Ratio	Lower	Upper
53	100		
52	80.2	65.0	97.6
51	33.7	27.2	40.8

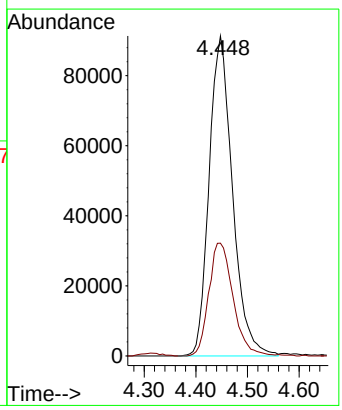


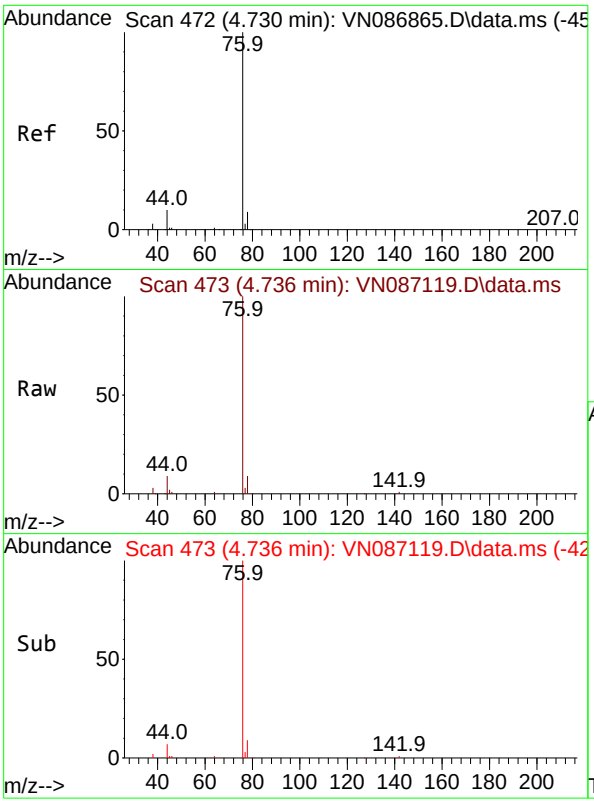


#16
Acetone
Concen: 227.682 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 43 Resp: 286922

Ion	Ratio	Lower	Upper
43	100		
58	35.2	28.0	42.0



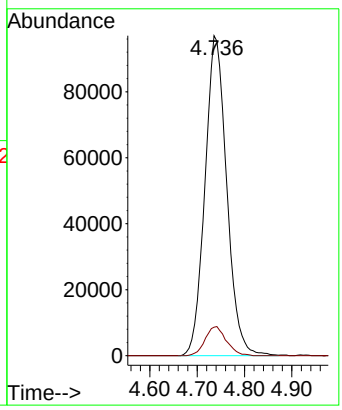


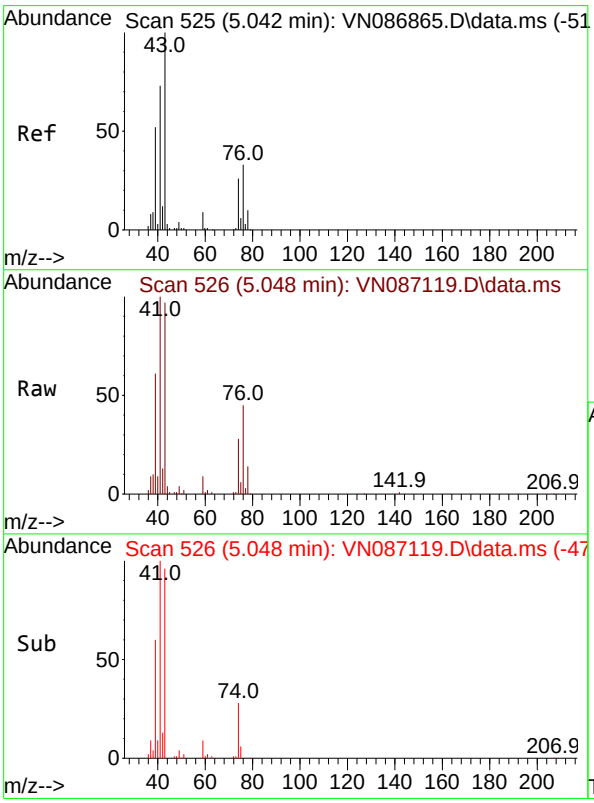
#17
Carbon Disulfide
Concen: 56.642 ug/l
RT: 4.736 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 76 Resp: 309512

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.3	10.9

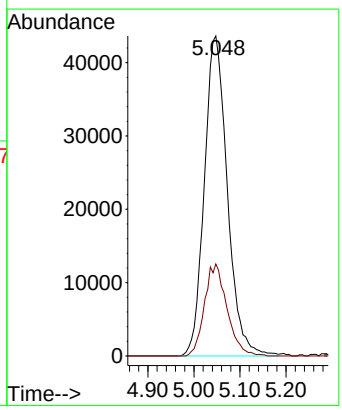


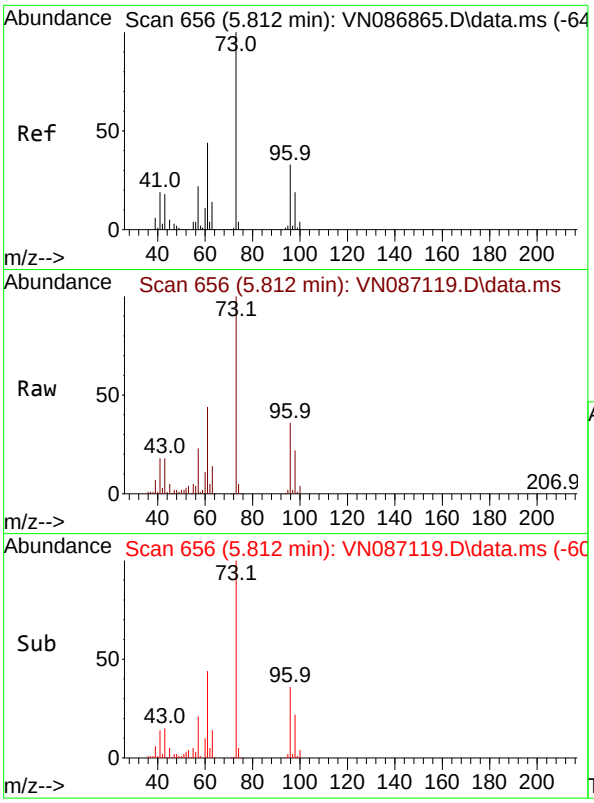


#18
Methyl Acetate
Concen: 41.293 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 43 Resp: 151644

Ion	Ratio	Lower	Upper
43	100		
74	28.2	20.7	31.1



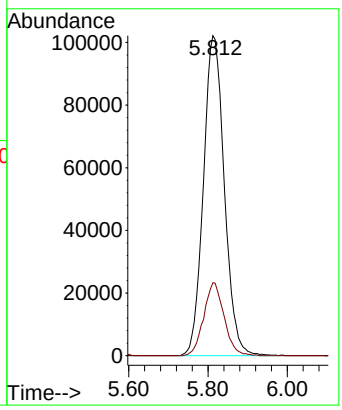


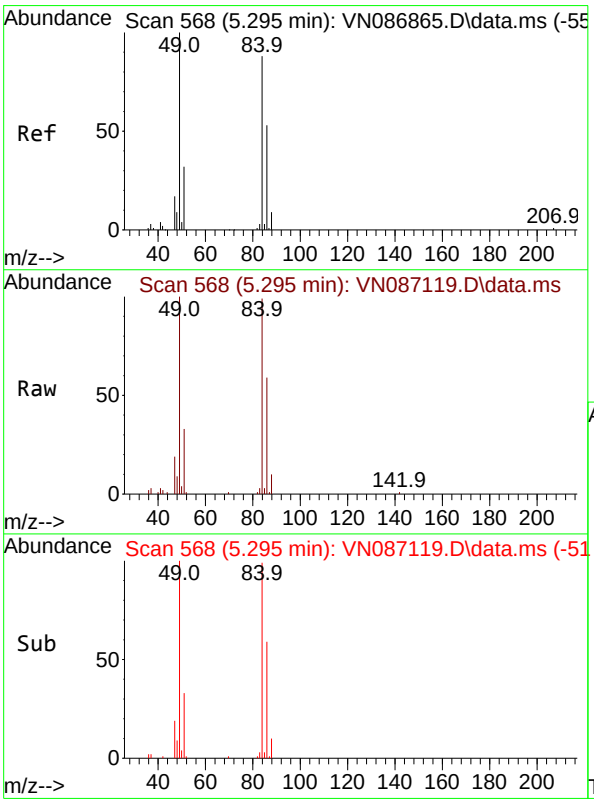
#19
Methyl tert-butyl Ether
Concen: 52.338 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 73 Resp: 374361

Ion	Ratio	Lower	Upper
73	100		
57	22.8	17.4	26.2

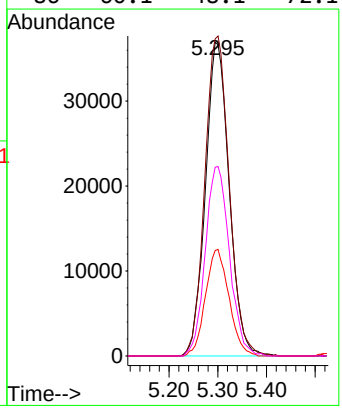


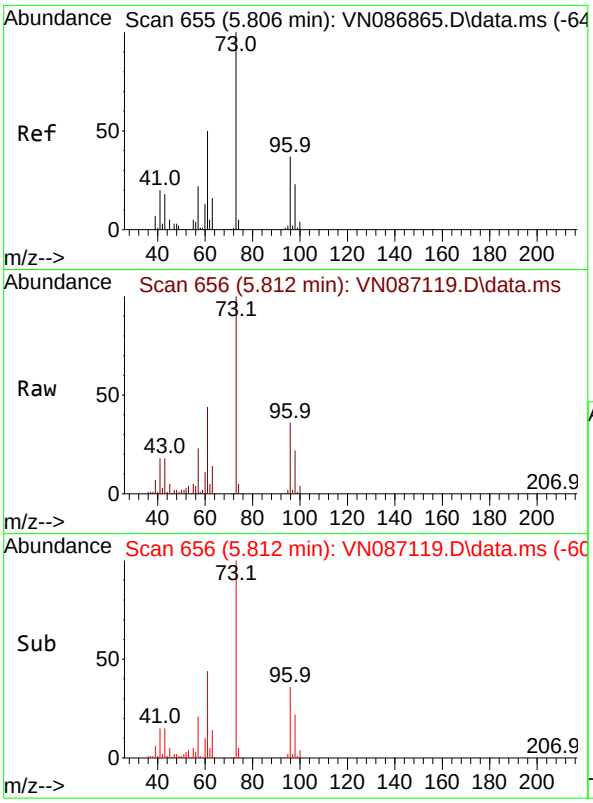


#20
Methylene Chloride
Concen: 53.036 ug/l
RT: 5.295 min Scan# 568
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 84 Resp: 125128

Ion	Ratio	Lower	Upper
84	100		
49	101.1	90.5	135.7
51	33.6	28.5	42.7
86	60.1	48.1	72.1



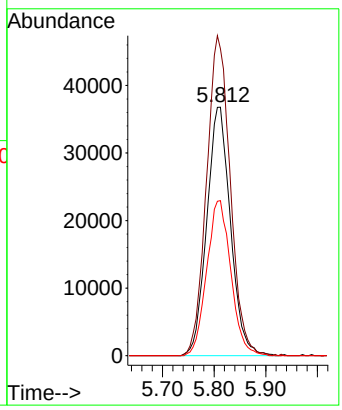


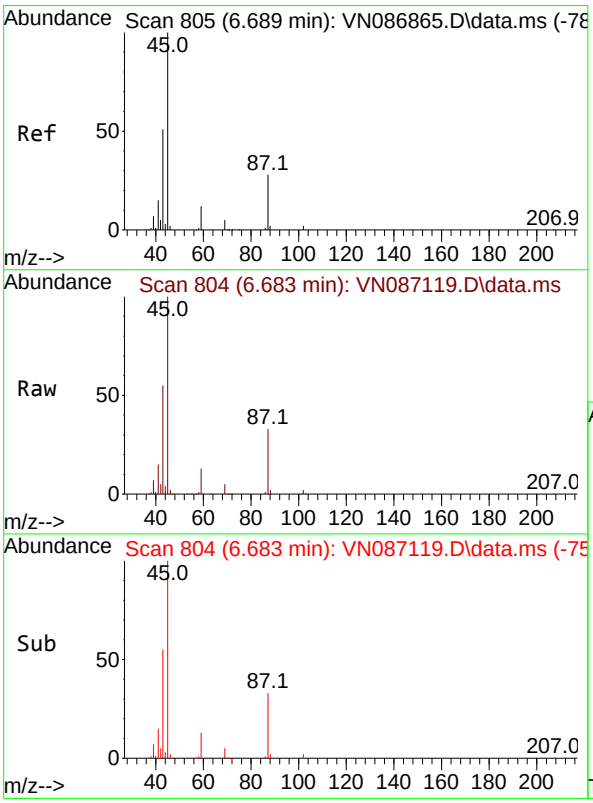
#21
trans-1,2-Dichloroethene
Concen: 53.301 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 96 Resp: 117148

Ion	Ratio	Lower	Upper
96	100		
61	123.5	109.2	163.8
98	62.4	49.8	74.8

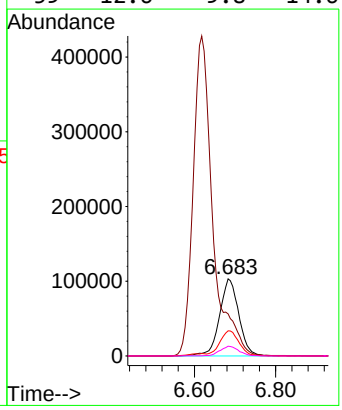


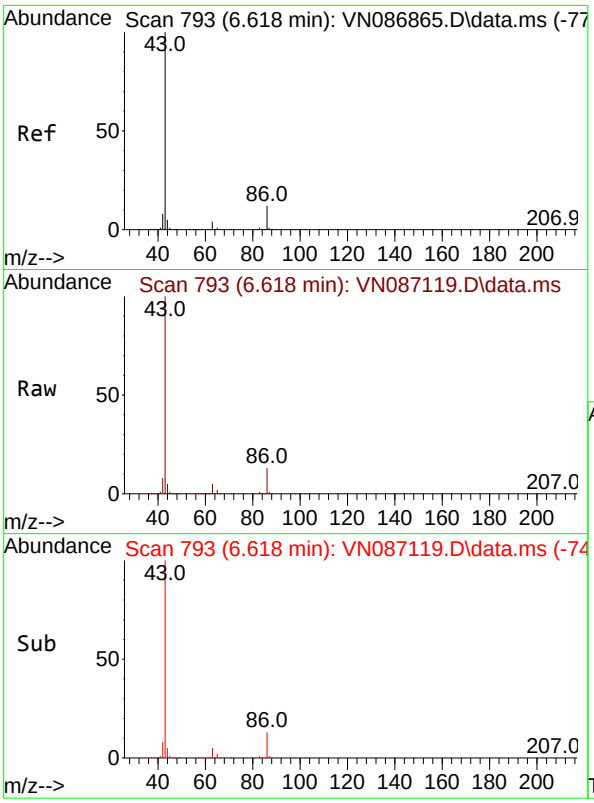


#22
Diisopropyl ether
Concen: 49.286 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 45 Resp: 340365

Ion	Ratio	Lower	Upper
45	100		
43	54.0	41.9	62.9
87	32.5	22.4	33.6
59	12.6	9.8	14.6



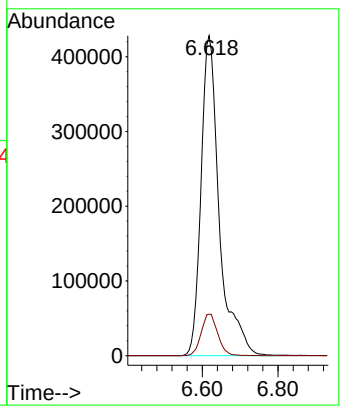


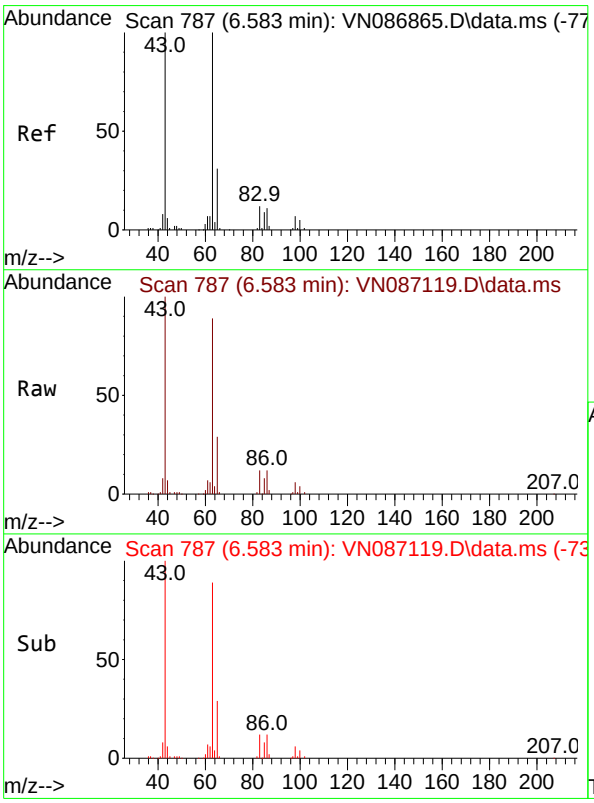
#23
Vinyl Acetate
Concen: 245.547 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 43 Resp: 1432710

Ion	Ratio	Lower	Upper
43	100		
86	12.9	9.5	14.3

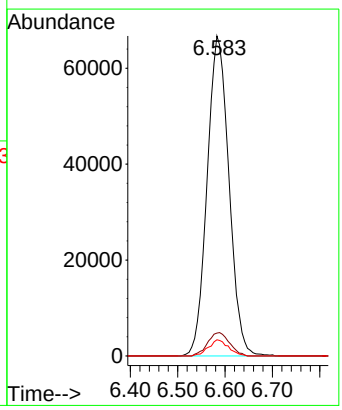


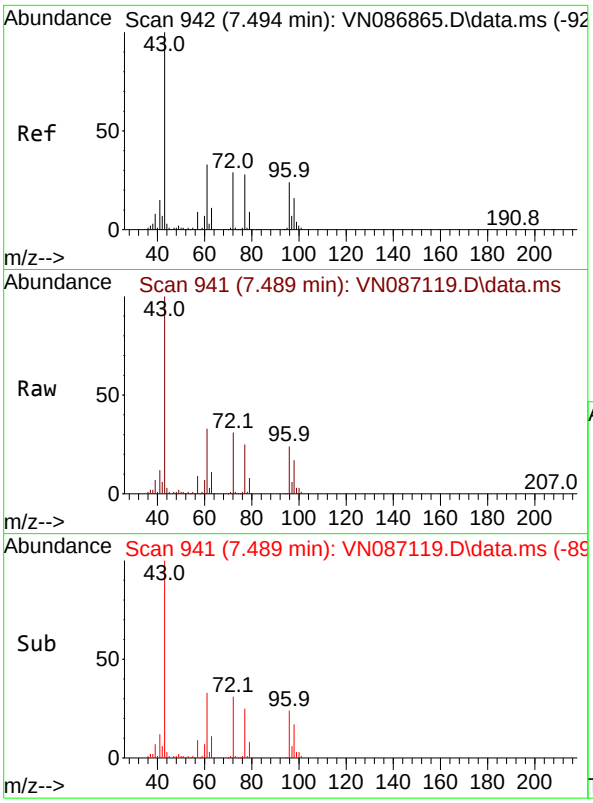


#24
1,1-Dichloroethane
Concen: 53.751 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 63 Resp: 213618

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.6	10.8
100	5.0	2.6	7.8



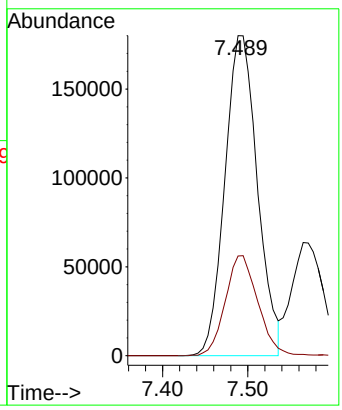


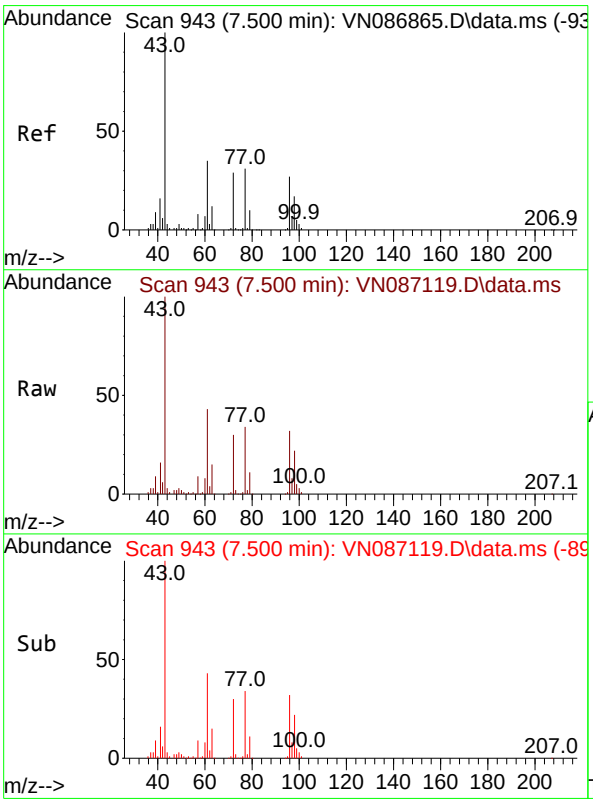
#25
2-Butanone
Concen: 233.627 ug/l
RT: 7.489 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 43 Resp: 478559

Ion	Ratio	Lower	Upper
43	100		
72	31.1	23.0	34.6

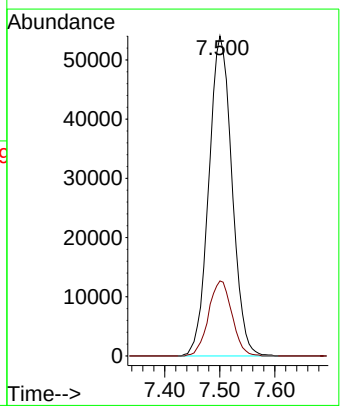


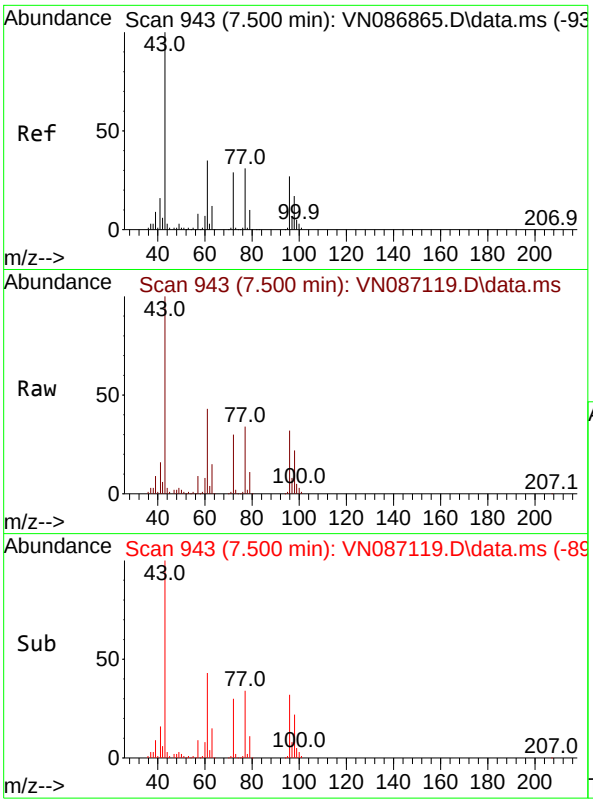


#26
2,2-Dichloropropane
Concen: 51.163 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 77 Resp: 158168

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.6	34.7



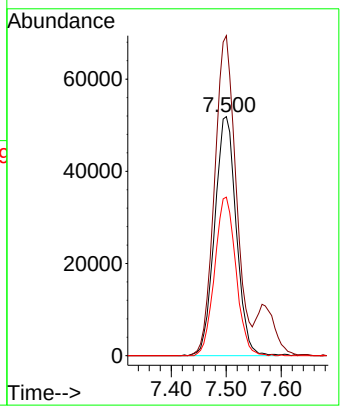


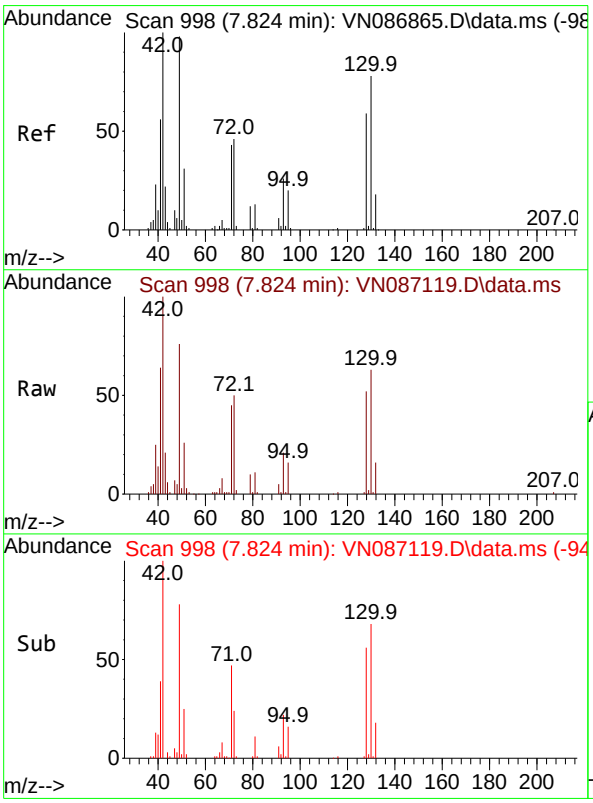
#27
cis-1,2-Dichloroethene
Concen: 53.896 ug/l
RT: 7.500 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 96 Resp: 141666

Ion	Ratio	Lower	Upper
96	100		
61	133.1	0.0	278.0
98	65.3	0.0	128.2

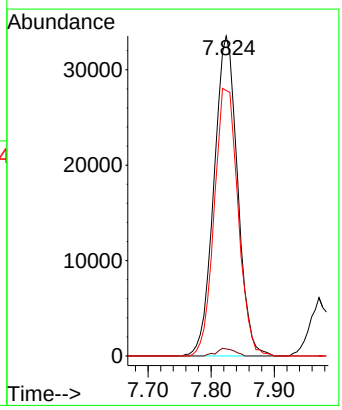


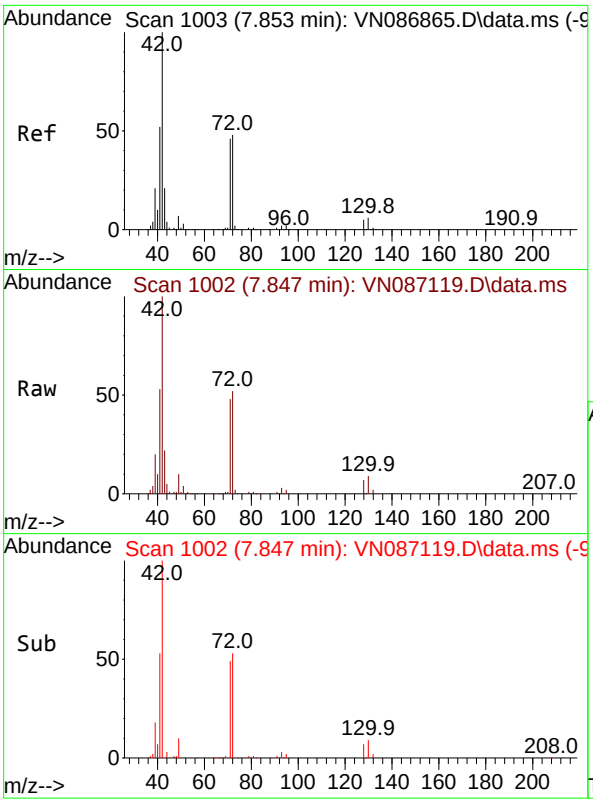


#28
Bromochloromethane
Concen: 44.499 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 49 Resp: 86952

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	84.7	62.2	93.2



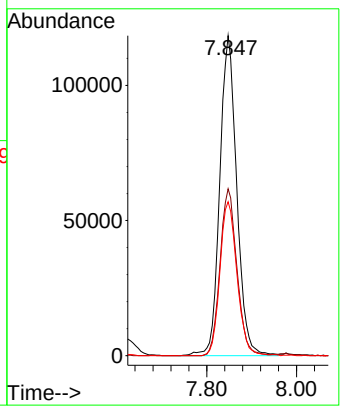


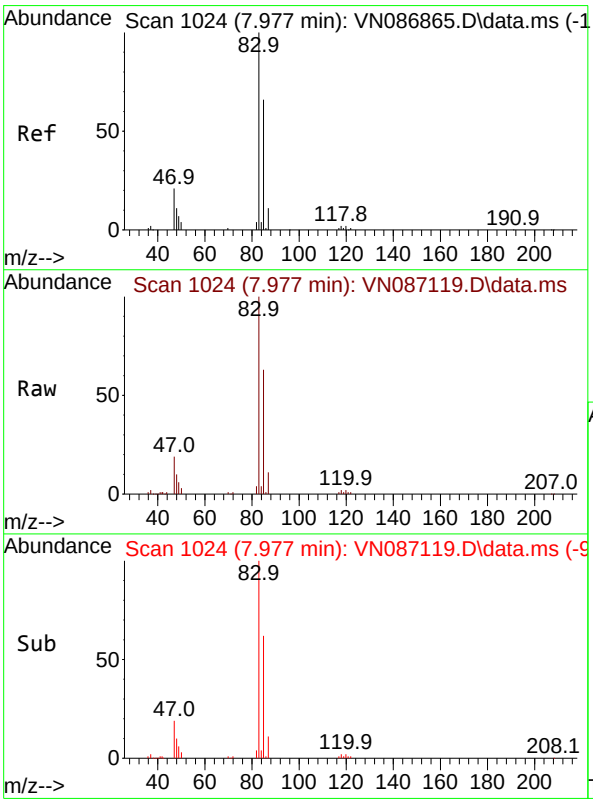
#29
Tetrahydrofuran
Concen: 233.785 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 42 Resp: 311959

Ion	Ratio	Lower	Upper
42	100		
72	51.7	37.8	56.6
71	48.2	35.6	53.4

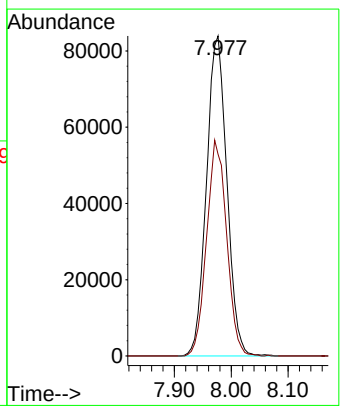


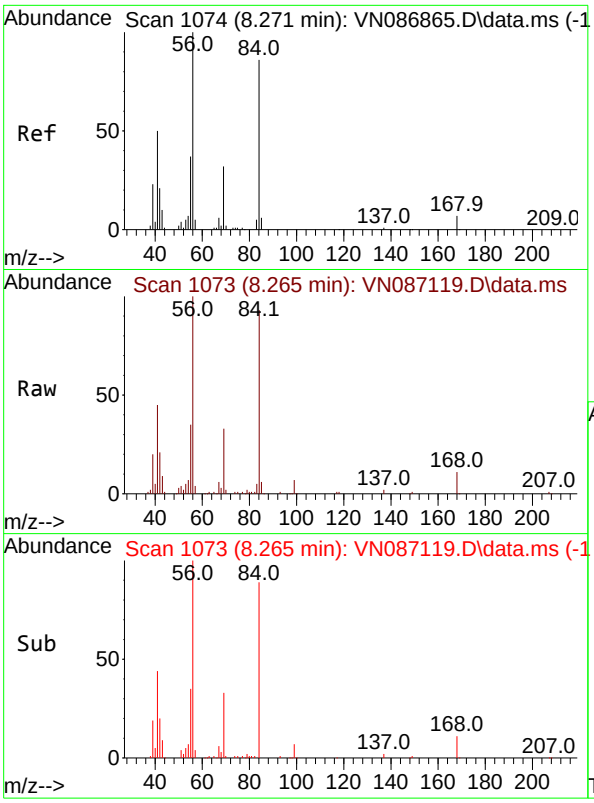


#30
Chloroform
Concen: 52.659 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 83 Resp: 208999

Ion	Ratio	Lower	Upper
83	100		
85	63.1	52.9	79.3



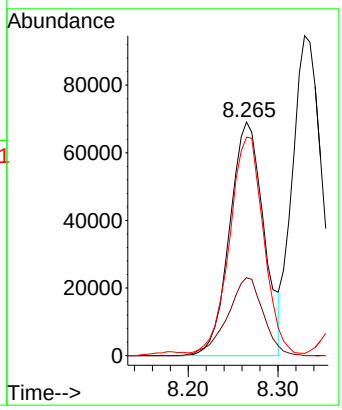


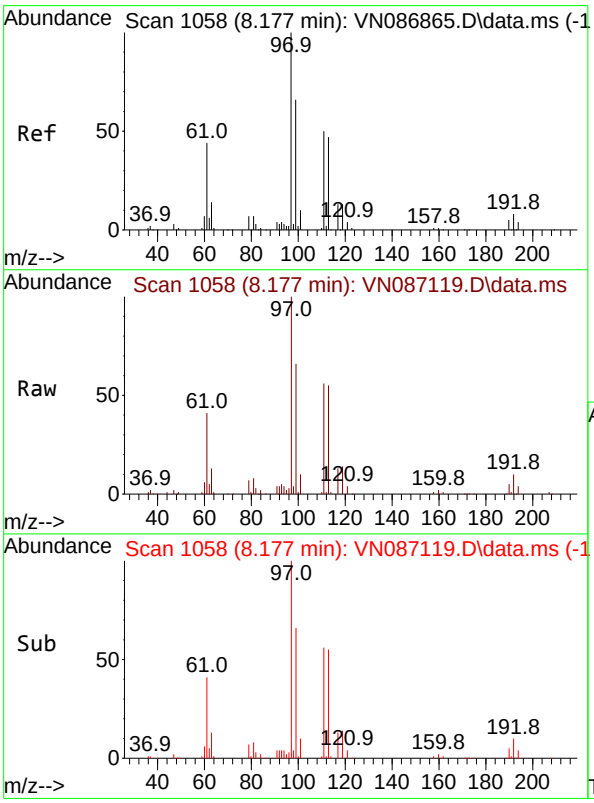
#31
Cyclohexane
Concen: 47.251 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 56 Resp: 182112

Ion	Ratio	Lower	Upper
56	100		
69	33.4	25.4	38.0
84	92.2	68.8	103.2

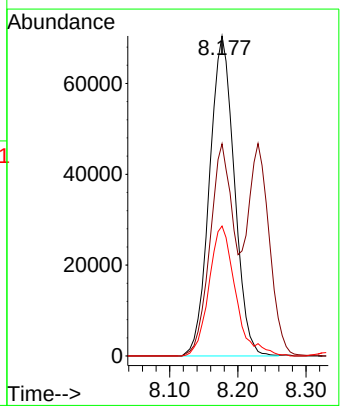


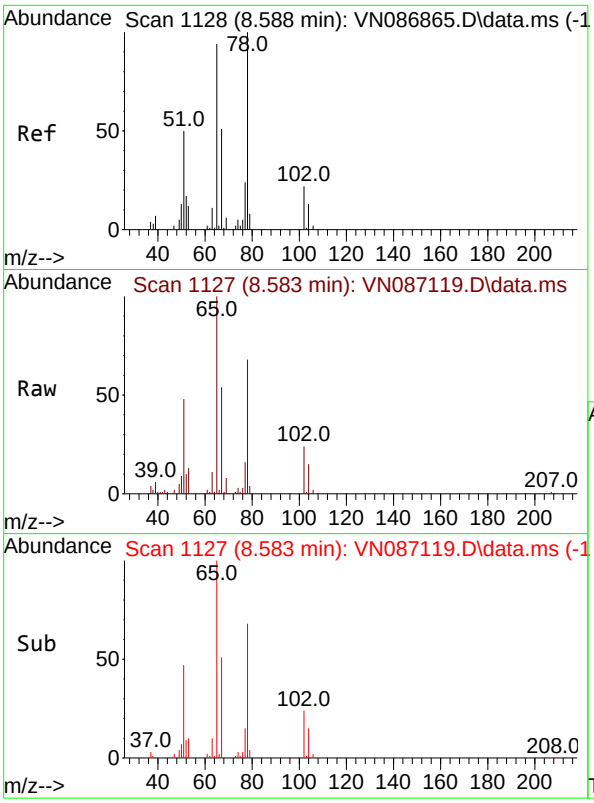


#32
1,1,1-Trichloroethane
Concen: 52.950 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 97 Resp: 178740

Ion	Ratio	Lower	Upper
97	100		
99	61.7	52.0	78.0
61	43.3	35.9	53.9



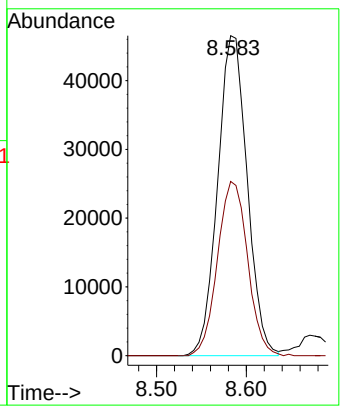


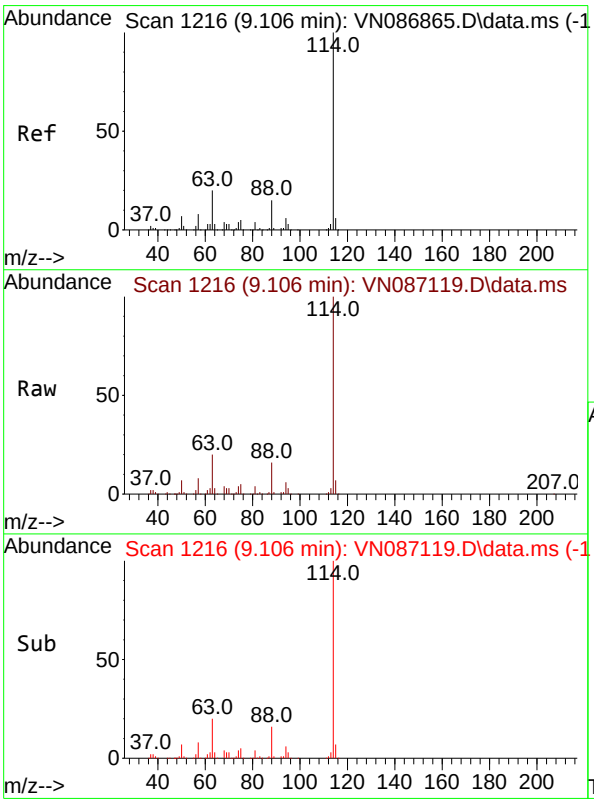
#33
1,2-Dichloroethane-d4
Concen: 44.742 ug/l
RT: 8.583 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 65 Resp: 106321

Ion	Ratio	Lower	Upper
65	100		
67	55.5	0.0	105.6

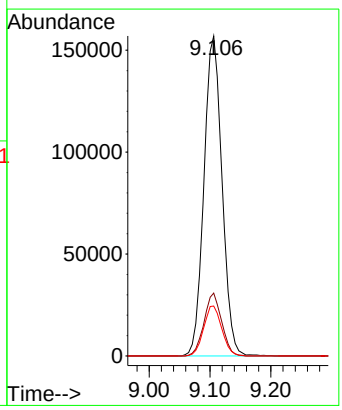


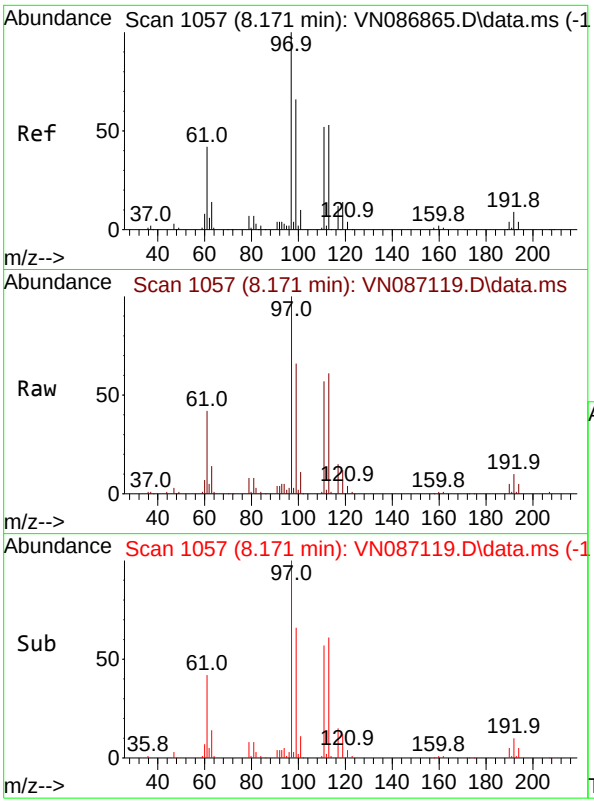


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:114 Resp: 324249

Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.6
88	15.6	0.0	30.2



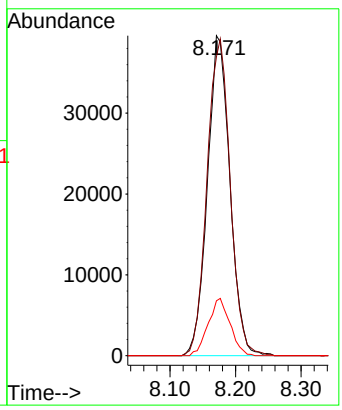


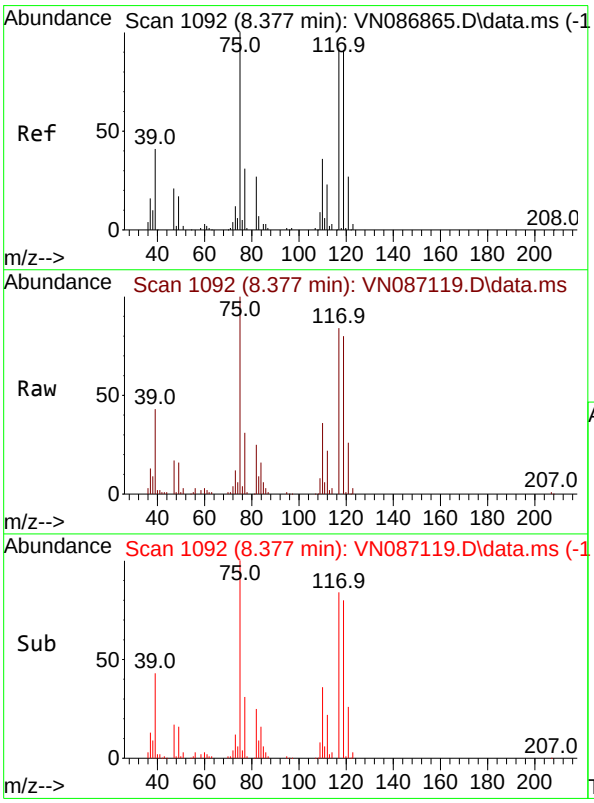
#35
Dibromofluoromethane
Concen: 49.076 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:113 Resp: 94304

Ion	Ratio	Lower	Upper
113	100		
111	101.9	84.2	126.2
192	17.4	14.2	21.4

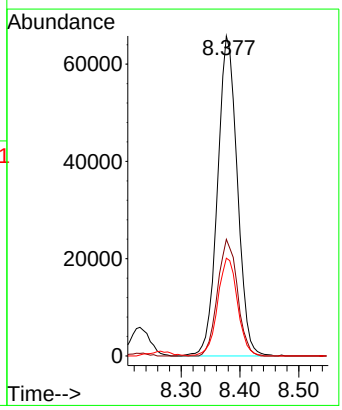


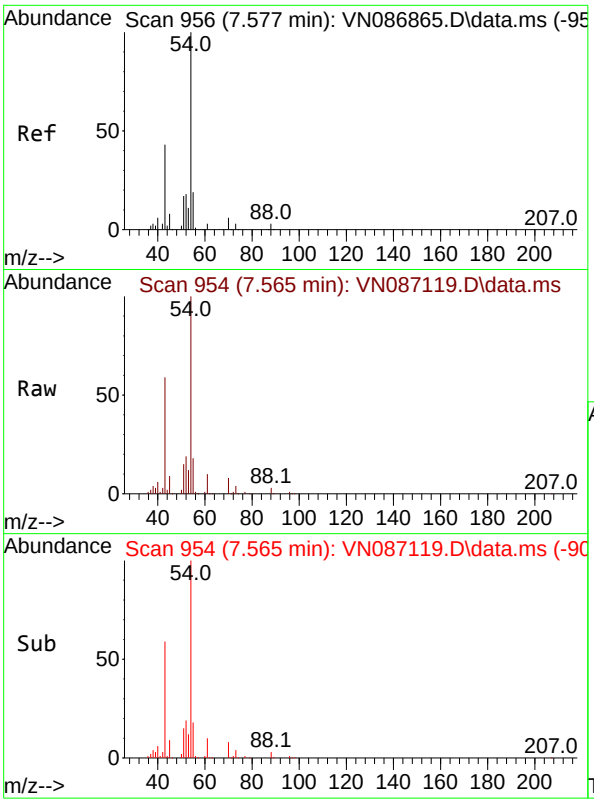


#36
1,1-Dichloropropene
Concen: 53.717 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 75 Resp: 153809

Ion	Ratio	Lower	Upper
75	100		
110	36.6	17.6	52.9
77	30.8	25.3	37.9



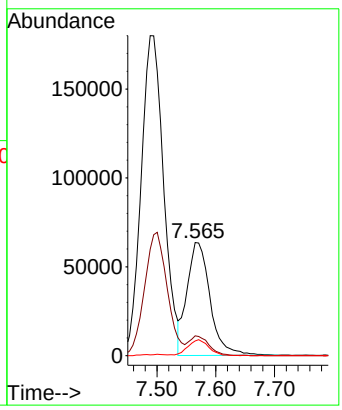


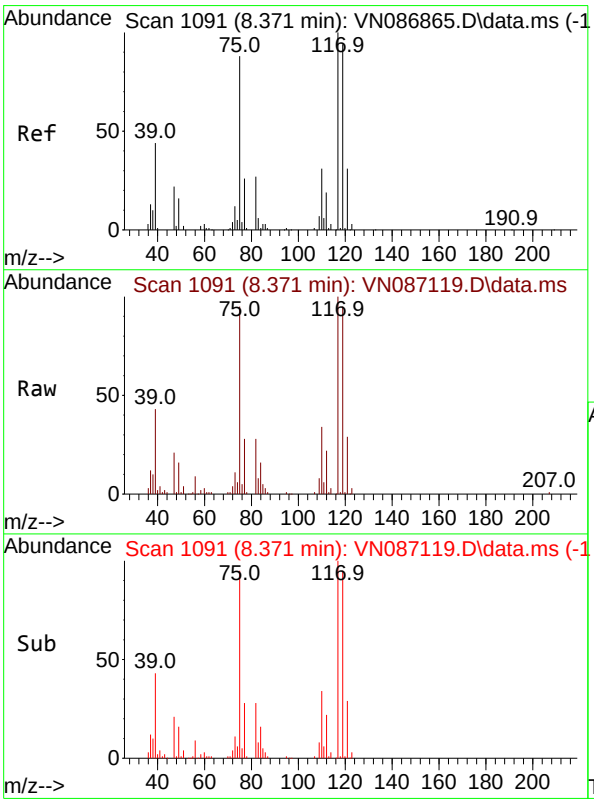
#37
Ethyl Acetate
Concen: 47.551 ug/l
RT: 7.565 min Scan# 9
Delta R.T. -0.012 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 43 Resp: 173325

Ion	Ratio	Lower	Upper
43	100		
61	14.5	12.1	18.1
70	12.8	9.8	14.6

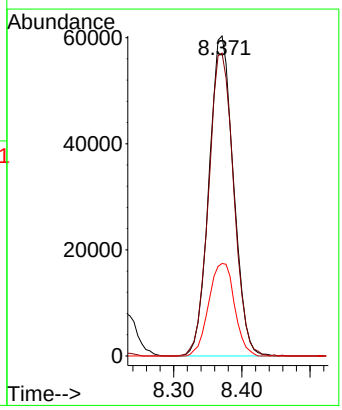


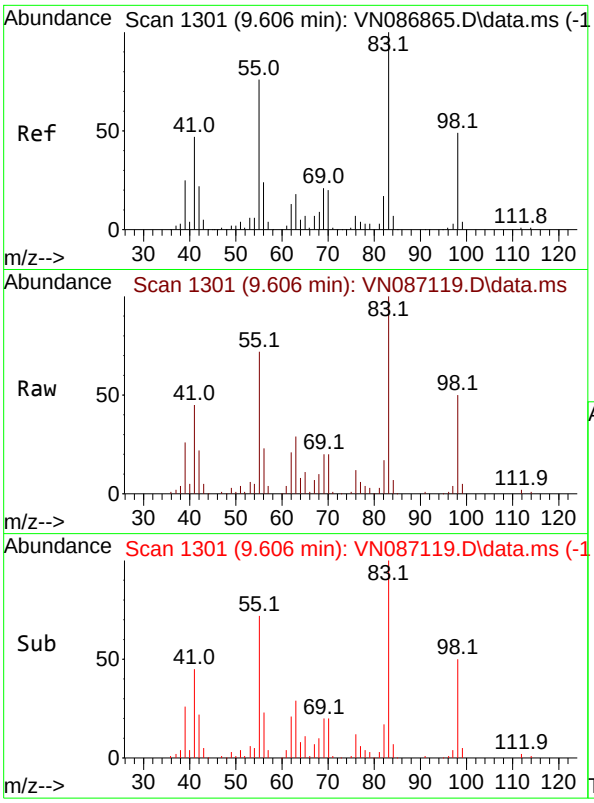


#38
Carbon Tetrachloride
Concen: 53.493 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:117 Resp: 150377

Ion	Ratio	Lower	Upper
117	100		
119	94.7	75.0	112.6
121	28.9	24.9	37.3



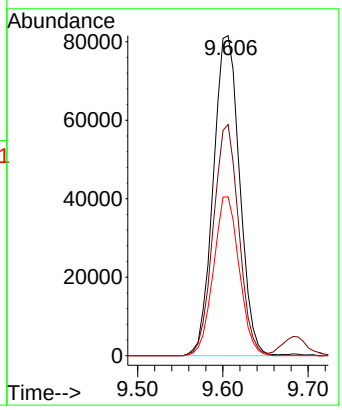


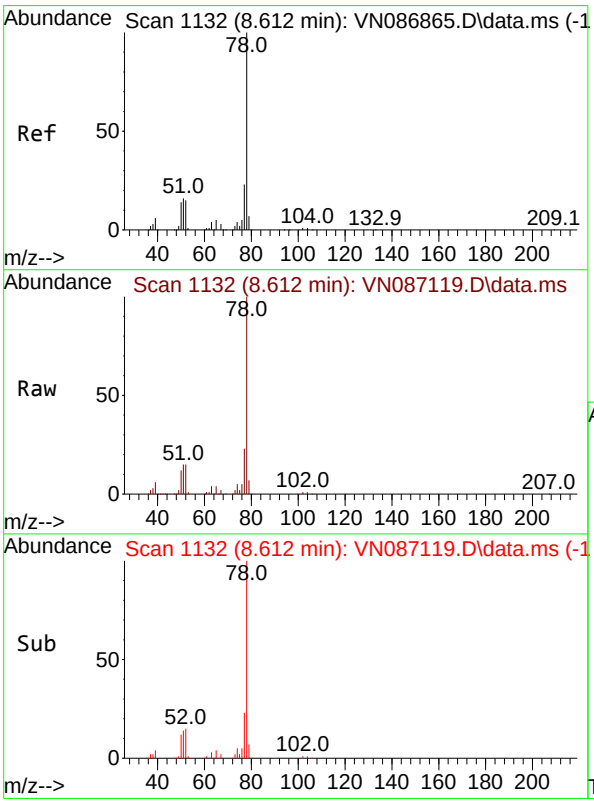
#39
Methylcyclohexane
Concen: 44.558 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 83 Resp: 174796

Ion	Ratio	Lower	Upper
83	100		
55	72.3	61.0	91.6
98	49.7	38.9	58.3

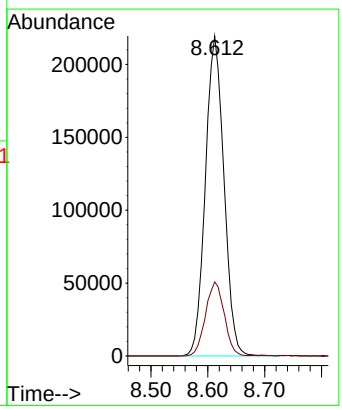


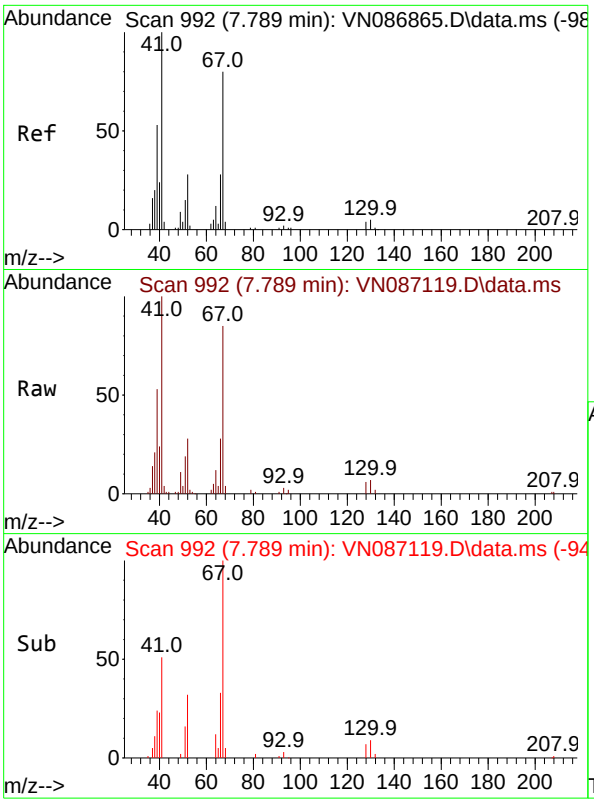


#40
Benzene
Concen: 53.139 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 78 Resp: 497556

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.7	28.1



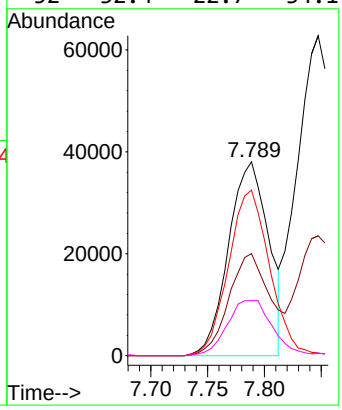


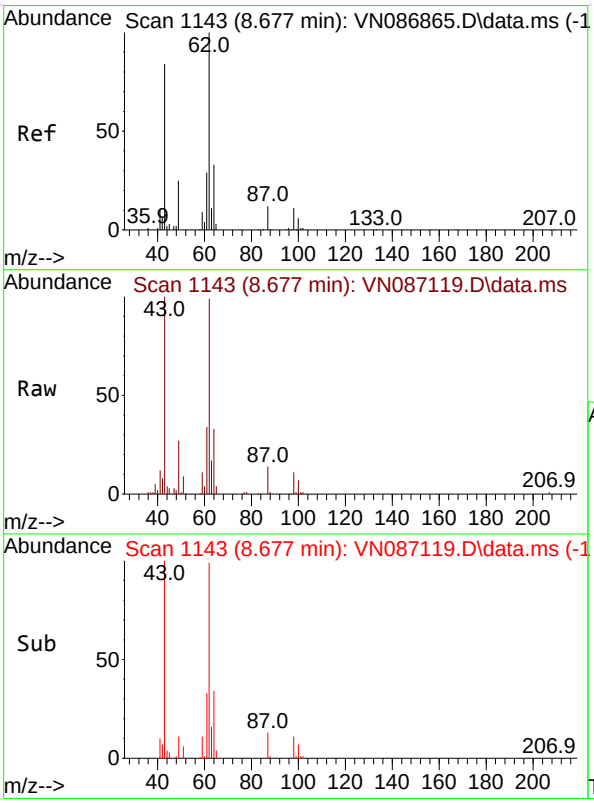
#41
Methacrylonitrile
Concen: 45.624 ug/l
RT: 7.789 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 41 Resp: 93397

Ion	Ratio	Lower	Upper
41	100		
39	55.1	41.2	61.8
67	88.3	61.4	92.2
52	32.4	22.7	34.1

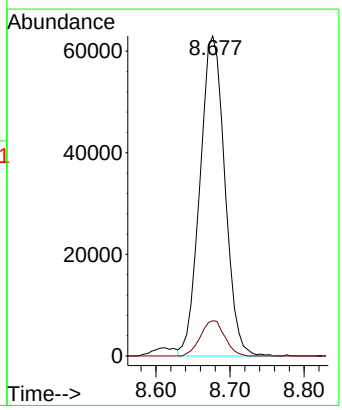


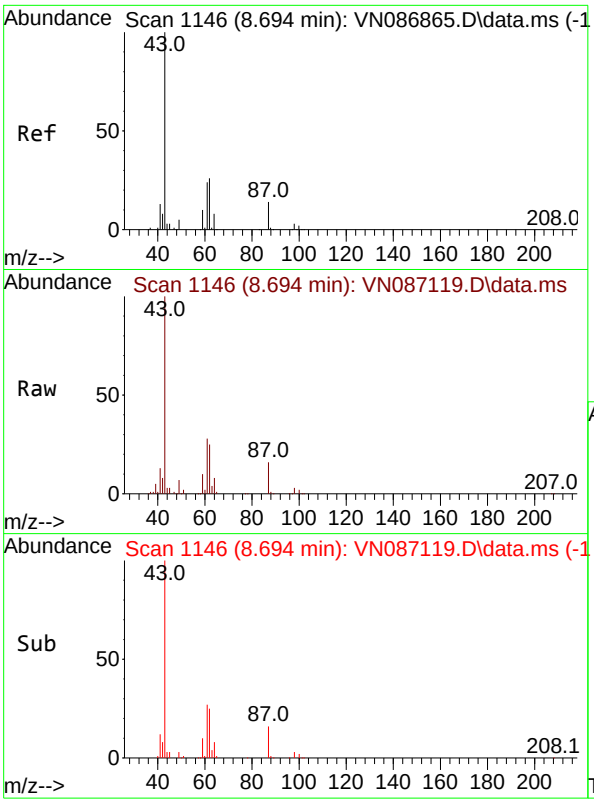


#42
1,2-Dichloroethane
Concen: 51.700 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 62 Resp: 146825

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	21.2



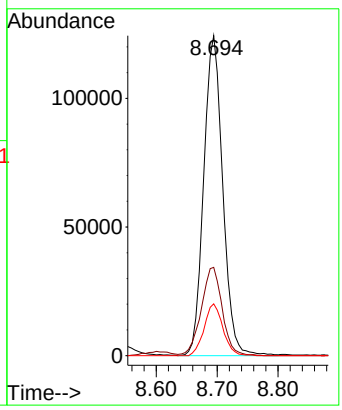


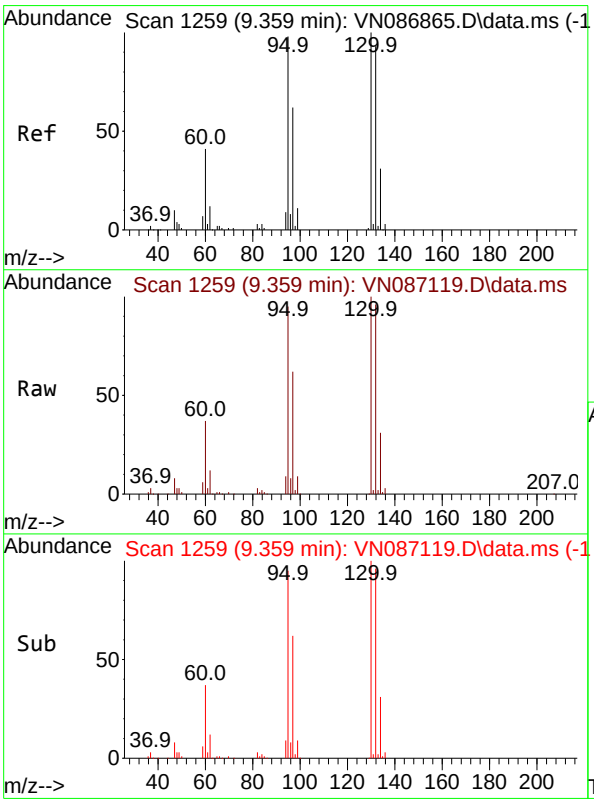
#43
Isopropyl Acetate
Concen: 46.148 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 43 Resp: 269980

Ion	Ratio	Lower	Upper
43	100		
61	30.4	22.1	33.1
87	16.0	11.8	17.6

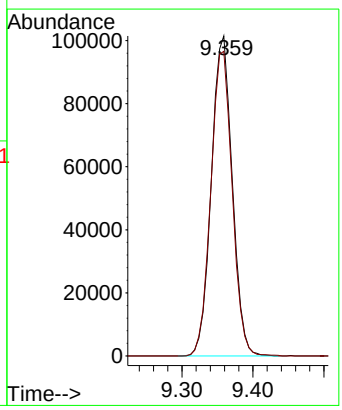


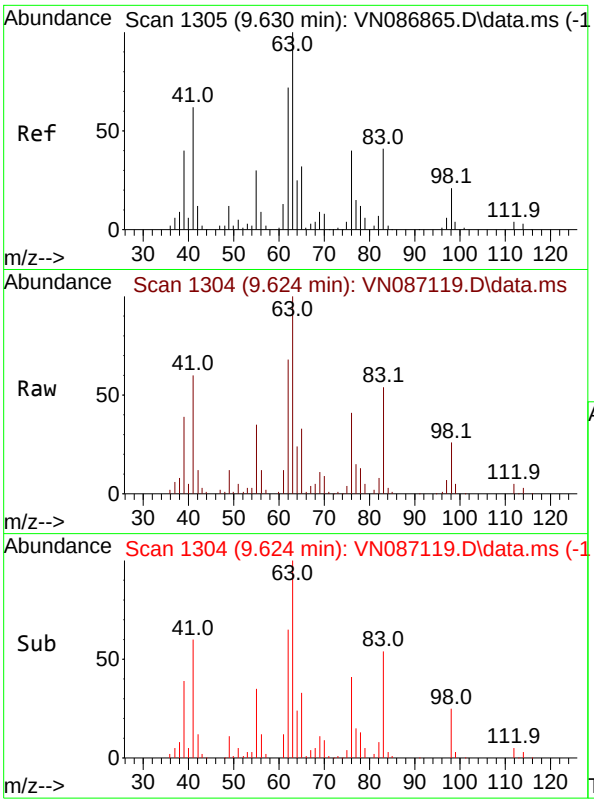


#44
Trichloroethene
Concen: 93.156 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:130 Resp: 206823

Ion	Ratio	Lower	Upper
130	100		
95	95.2	0.0	196.2



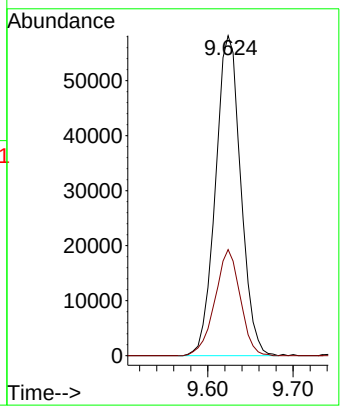


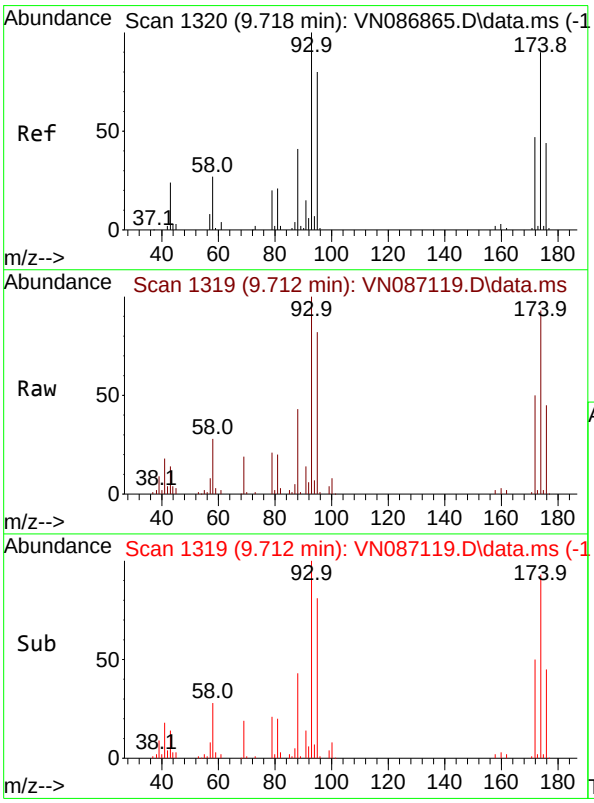
#45
1,2-Dichloropropane
Concen: 52.538 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 63 Resp: 119679

Ion	Ratio	Lower	Upper
63	100		
65	33.2	25.5	38.3

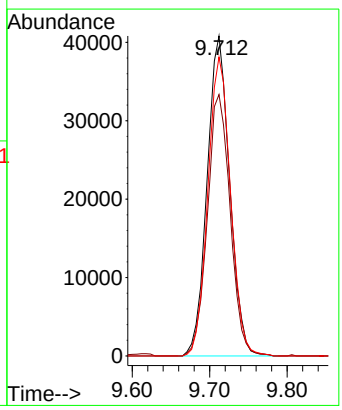


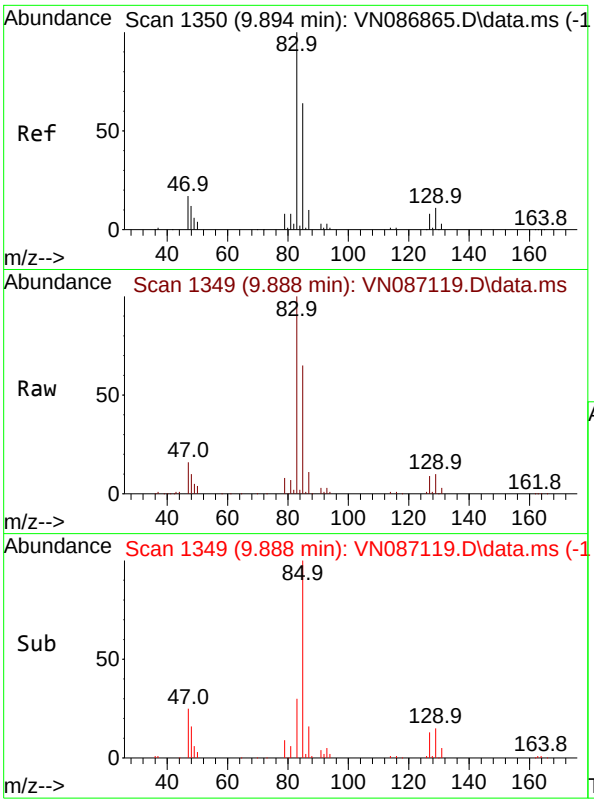


#46
Dibromomethane
Concen: 54.645 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 93 Resp: 82681

Ion	Ratio	Lower	Upper
93	100		
95	82.7	67.1	100.7
174	93.9	74.2	111.4



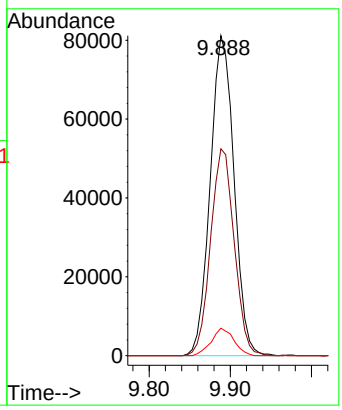


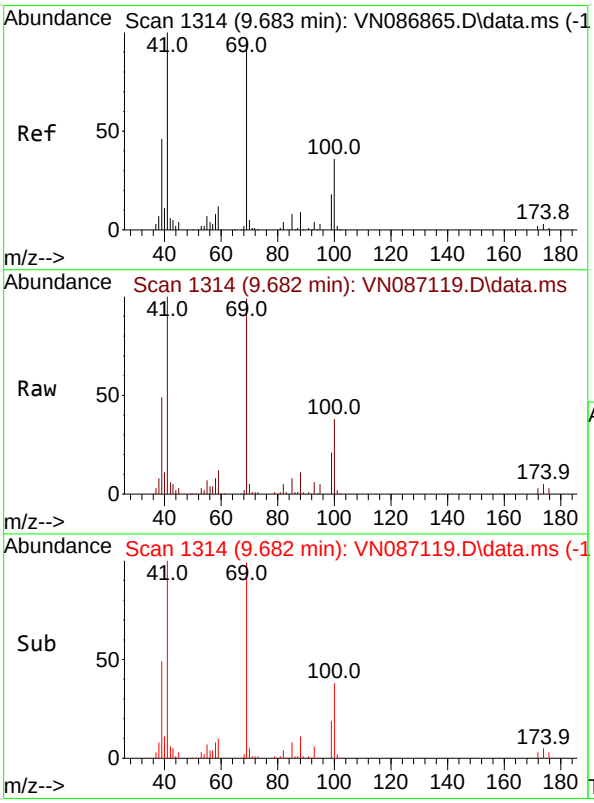
#47
Bromodichloromethane
Concen: 53.015 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 83 Resp: 165037

Ion	Ratio	Lower	Upper
83	100		
85	64.6	50.9	76.3
127	8.6	6.6	10.0

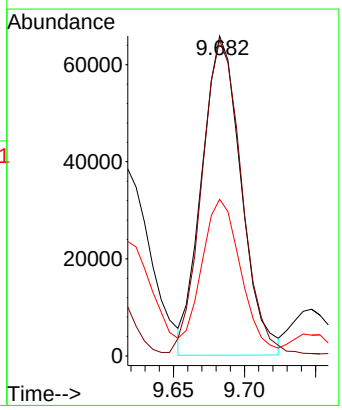


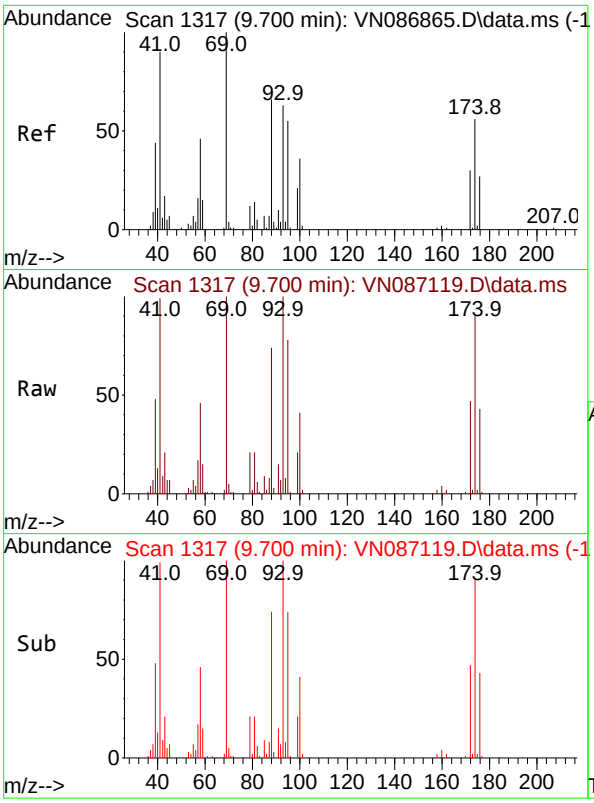


#48
Methyl methacrylate
Concen: 47.024 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 41 Resp: 126622

Ion	Ratio	Lower	Upper
41	100		
69	100.7	74.6	112.0
39	49.8	40.2	60.4



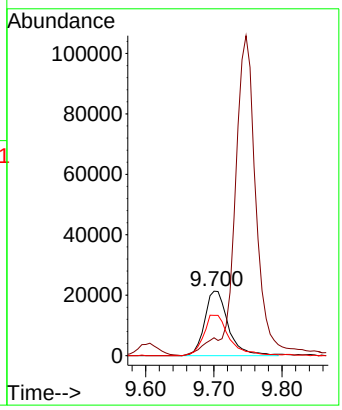


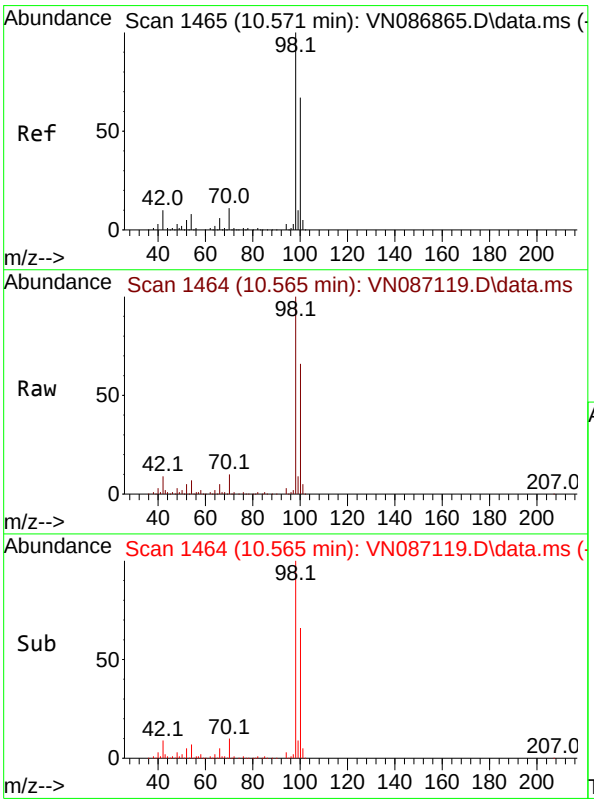
#49
1,4-Dioxane
Concen: 1052.526 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 88 Resp: 51559

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	68.2	57.7	86.5

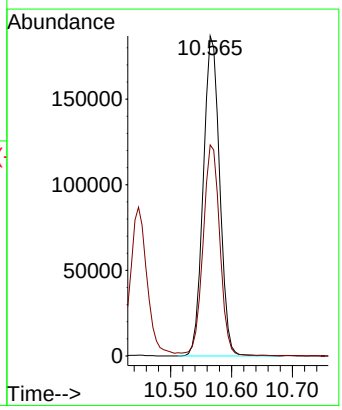


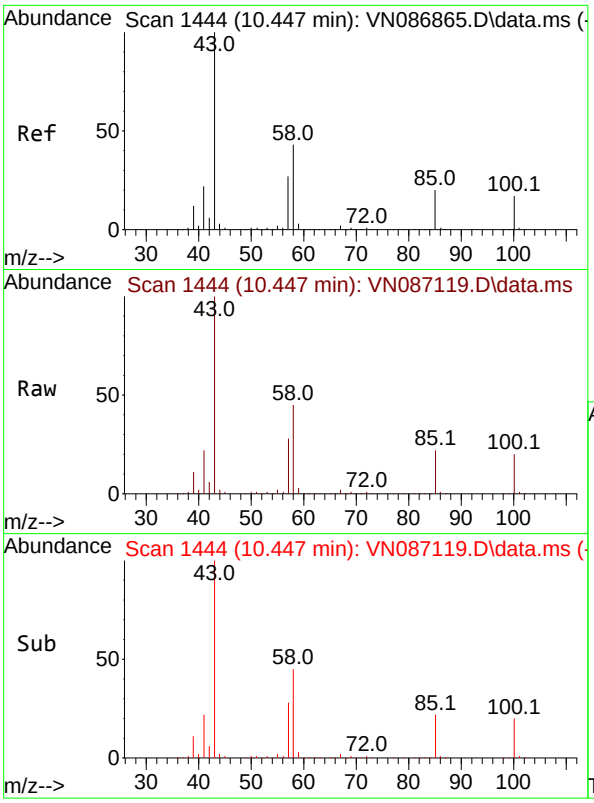


#50
Toluene-d8
Concen: 45.879 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 98 Resp: 349005

Ion	Ratio	Lower	Upper
98	100		
100	67.0	53.4	80.0



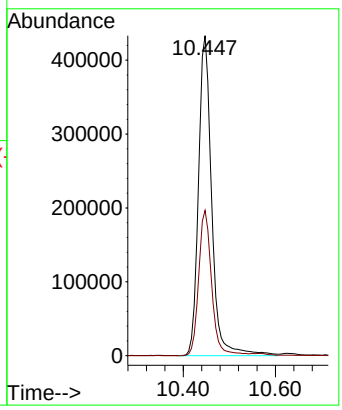


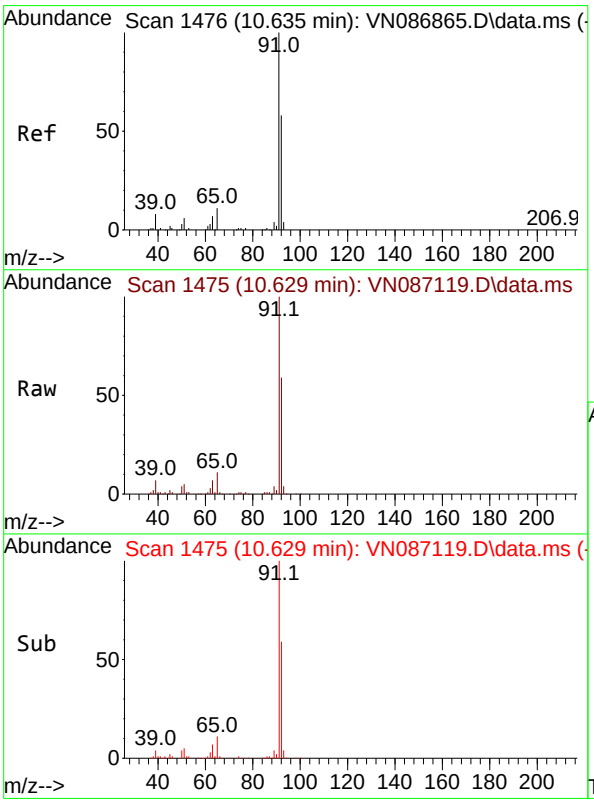
#51
4-Methyl-2-Pentanone
Concen: 246.814 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 43 Resp: 869262

Ion	Ratio	Lower	Upper
43	100		
58	44.4	34.2	51.4

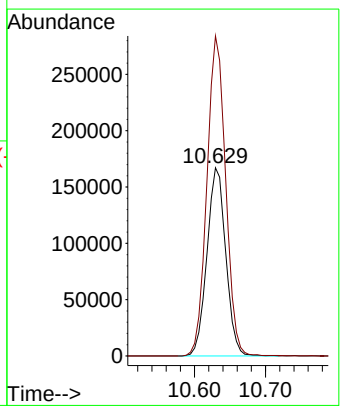


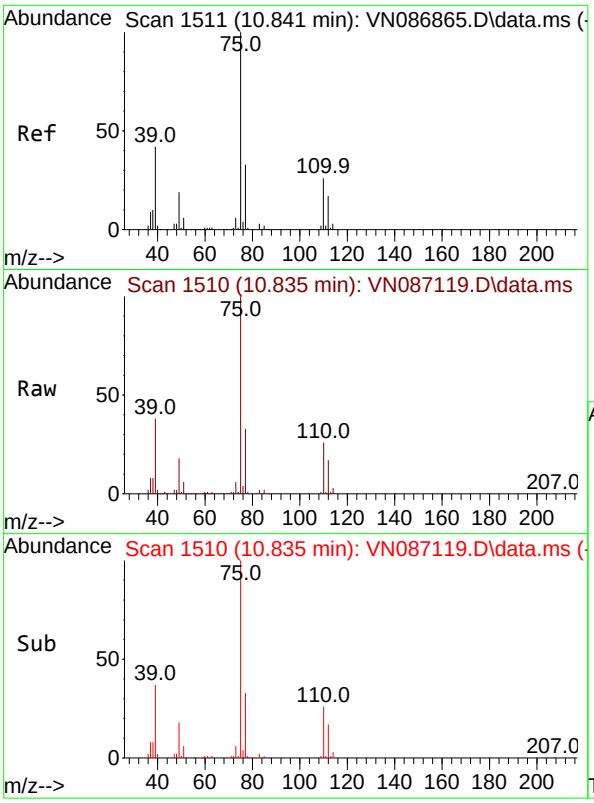


#52
Toluene
Concen: 53.678 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 92 Resp: 307149

Ion	Ratio	Lower	Upper
92	100		
91	169.6	136.5	204.7



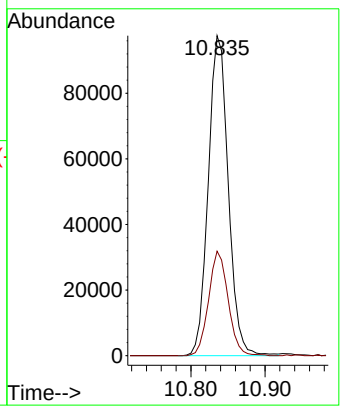


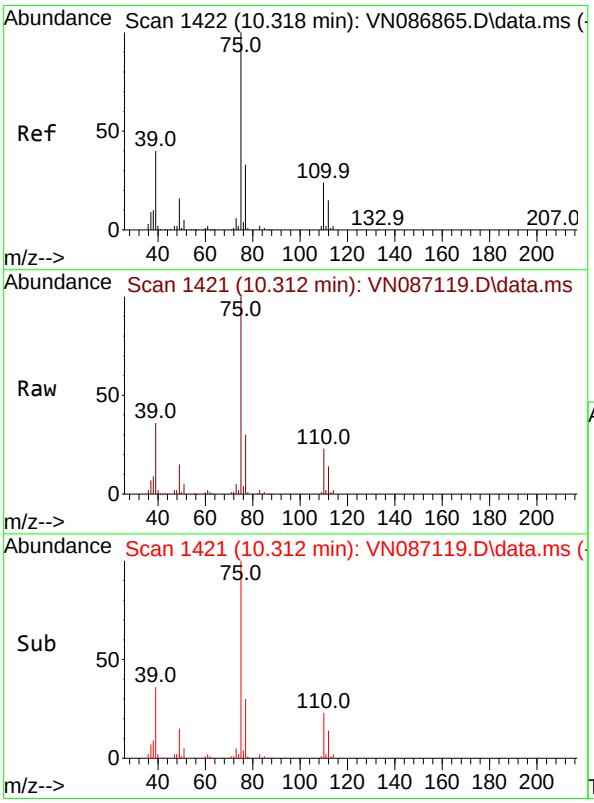
#53
t-1,3-Dichloropropene
Concen: 52.551 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 75 Resp: 182930

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.4	39.6

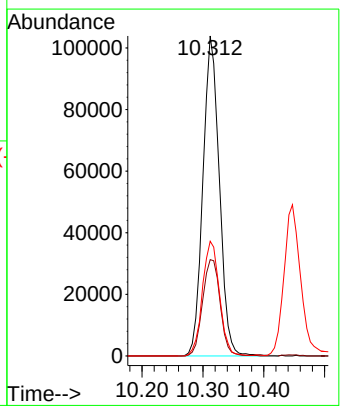


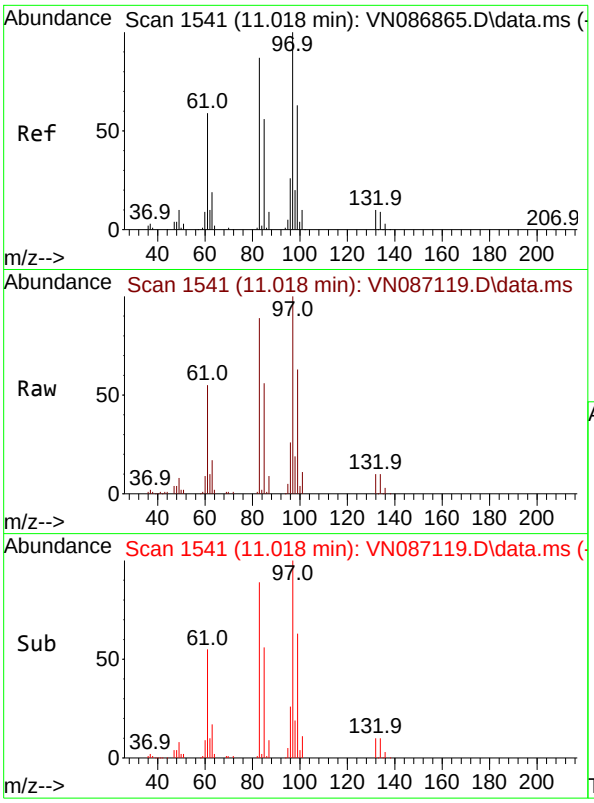


#54
cis-1,3-Dichloropropene
Concen: 52.369 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 75 Resp: 195053

Ion	Ratio	Lower	Upper
75	100		
77	30.1	26.2	39.4
39	35.9	32.3	48.5



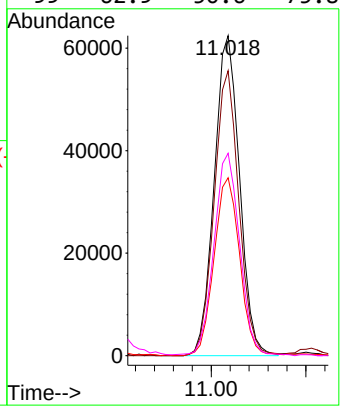


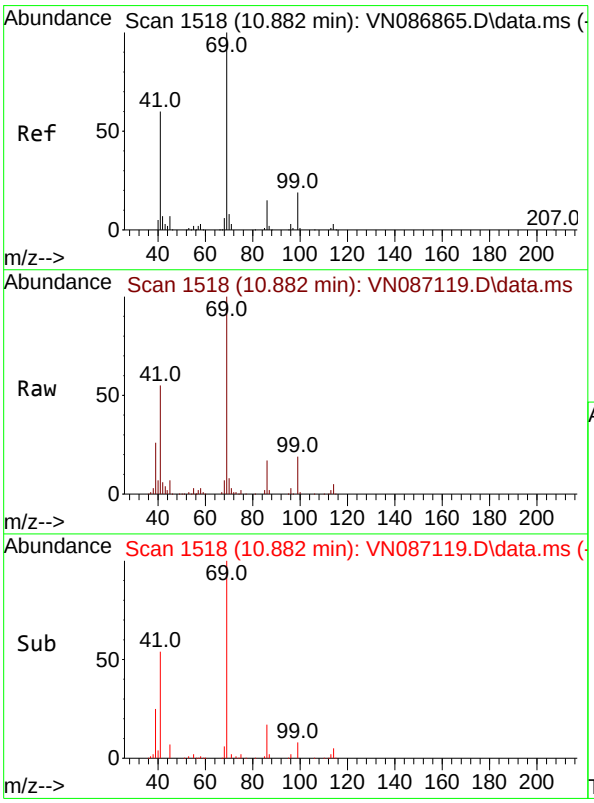
#55
1,1,2-Trichloroethane
Concen: 52.683 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 97 Resp: 115996

Ion	Ratio	Lower	Upper
97	100		
83	89.0	69.7	104.5
85	55.6	45.1	67.7
99	62.9	50.6	75.8

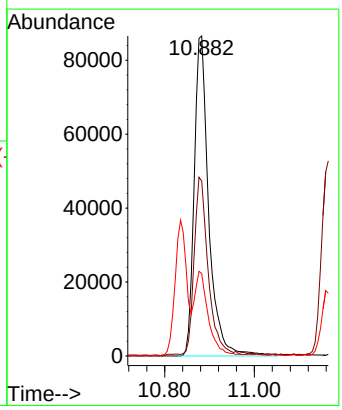


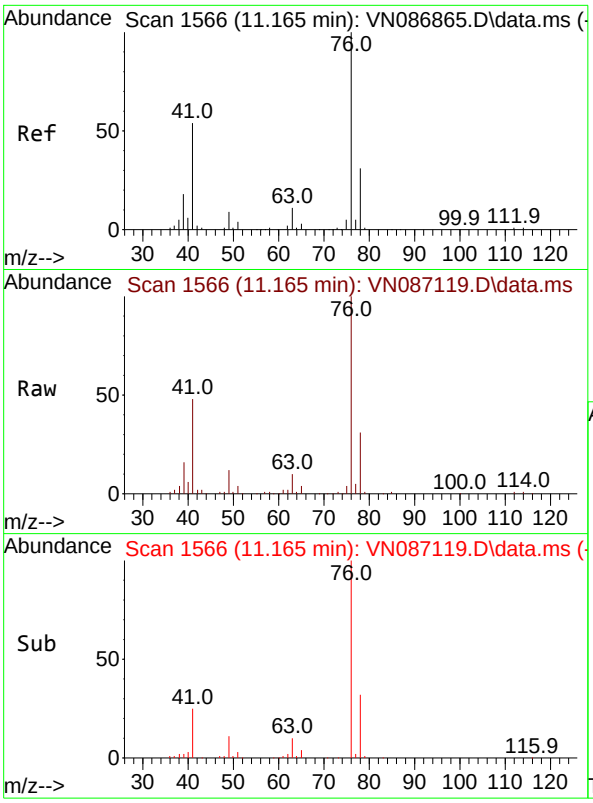


#56
Ethyl methacrylate
Concen: 55.602 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 69 Resp: 194990

Ion	Ratio	Lower	Upper
69	100		
41	55.2	47.2	70.8
39	24.4	23.0	34.6



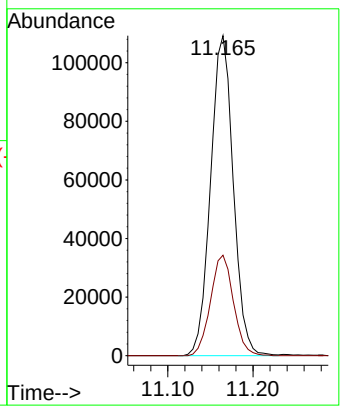


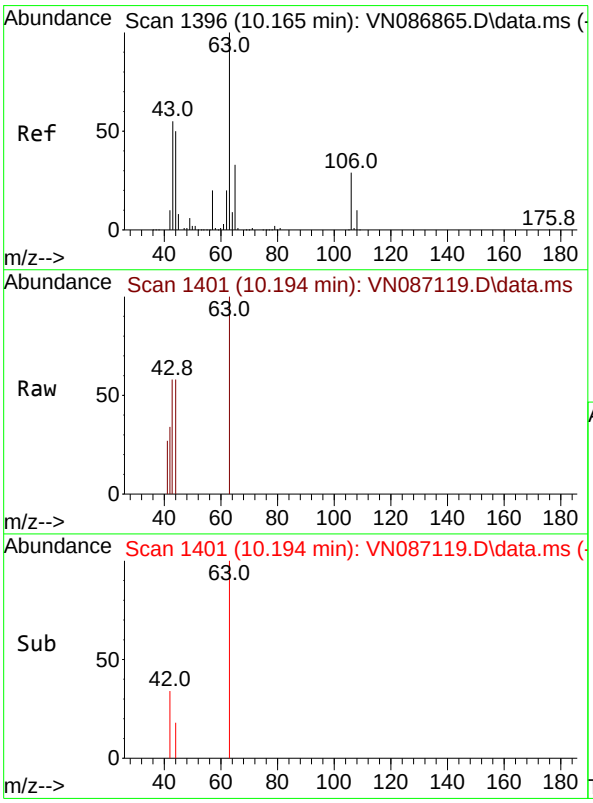
#57
1,3-Dichloropropane
Concen: 53.055 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 76 Resp: 202641

Ion	Ratio	Lower	Upper
76	100		
78	31.7	25.3	37.9

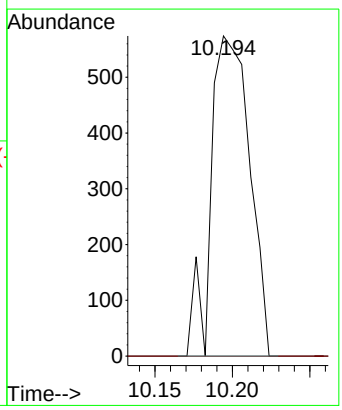


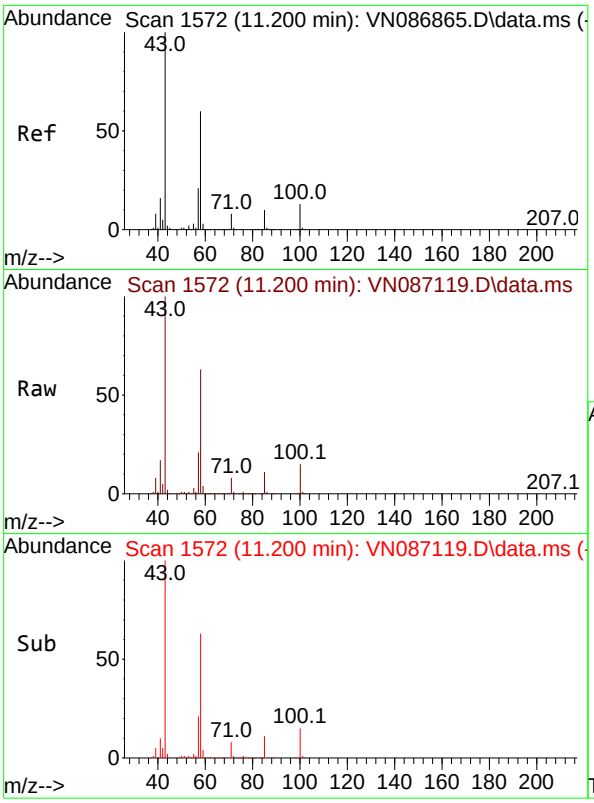


#58
2-Chloroethyl Vinyl ether
Concen: 0.478 ug/l
RT: 10.194 min Scan# 1401
Delta R.T. 0.029 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 63 Resp: 999

Ion	Ratio	Lower	Upper
63	100		
106	0.0	23.0	34.6#



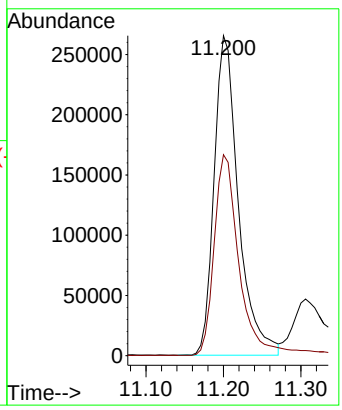


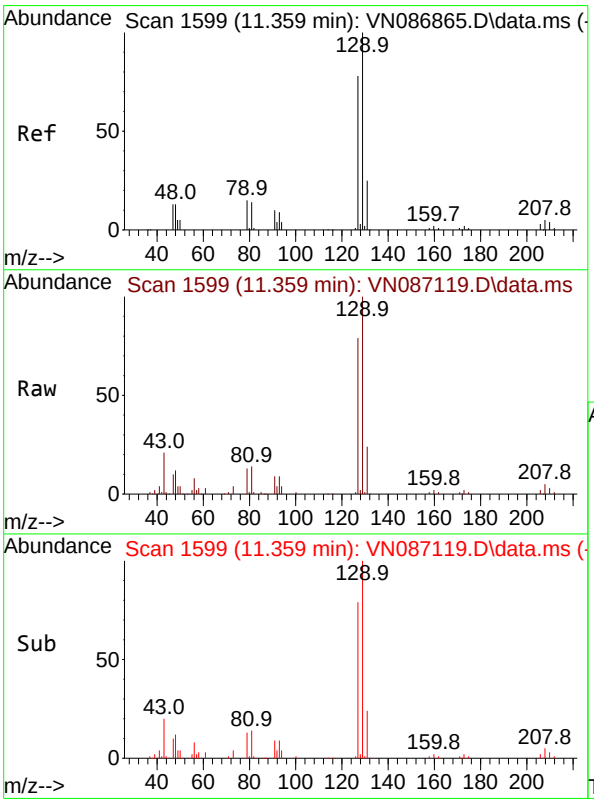
#59
2-Hexanone
Concen: 254.185 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 43 Resp: 576643

Ion	Ratio	Lower	Upper
43	100		
58	66.0	30.4	91.3

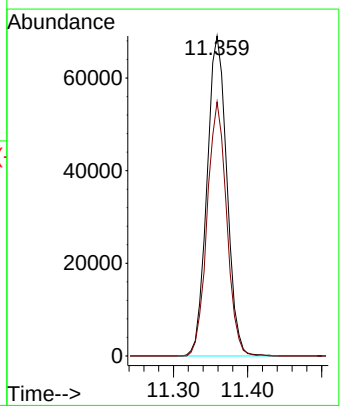


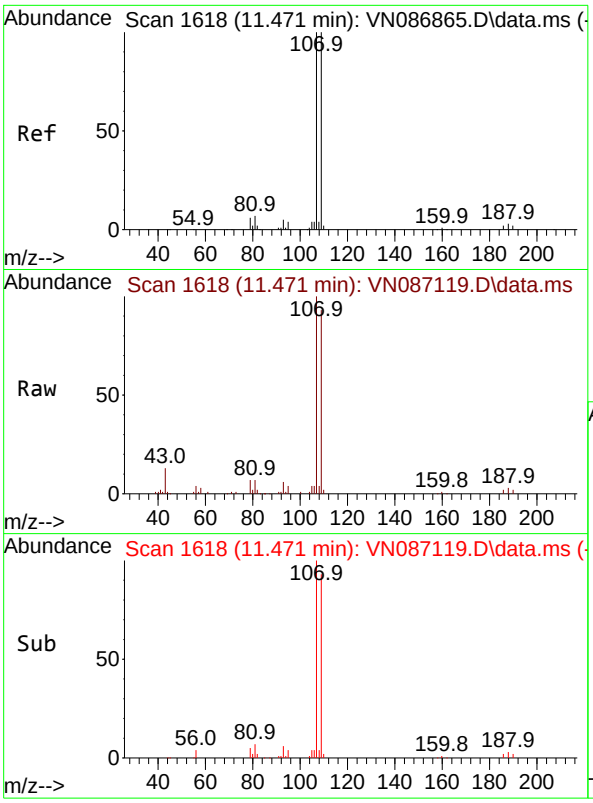


#60
Dibromochloromethane
Concen: 56.000 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:129 Resp: 128464

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.6	115.8



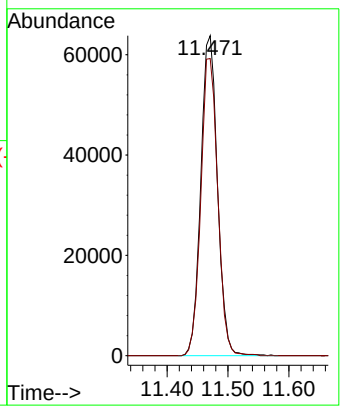


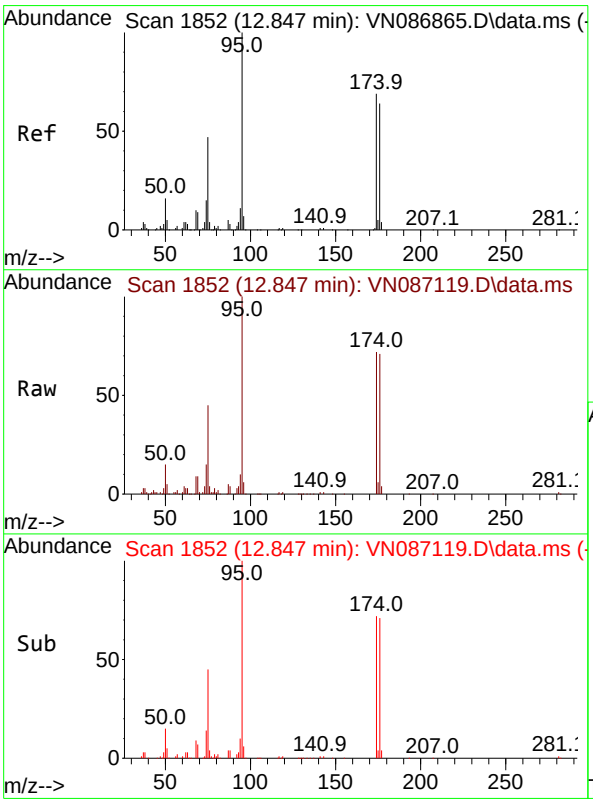
#61
1,2-Dibromoethane
Concen: 53.793 ug/l
RT: 11.471 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:107 Resp: 121399

Ion	Ratio	Lower	Upper
107	100		
109	94.3	76.3	114.5

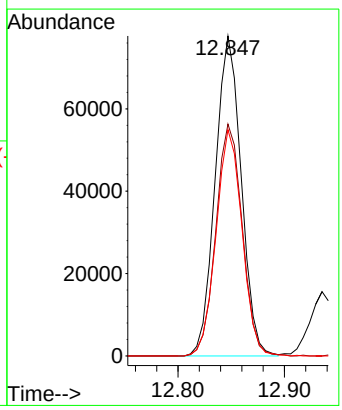


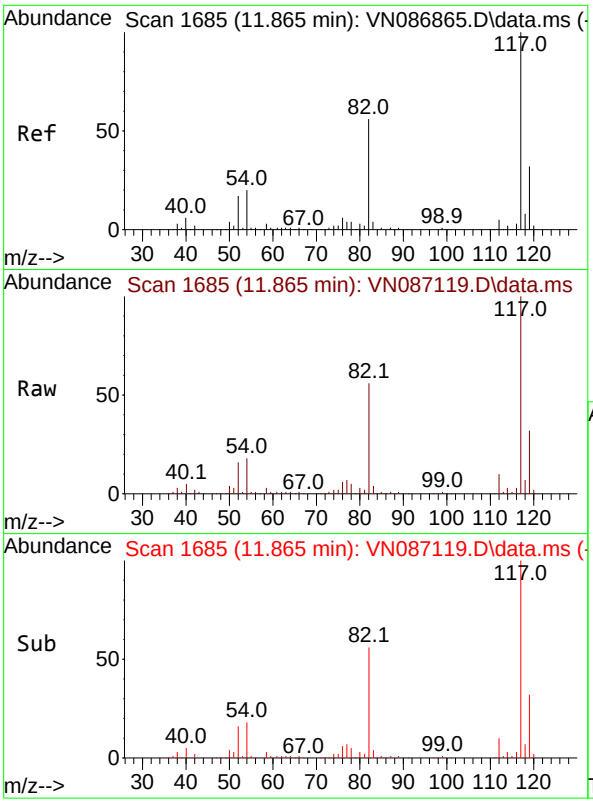


#62
4-Bromofluorobenzene
Concen: 46.584 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 95 Resp: 131657

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	141.8
176	70.7	0.0	132.6



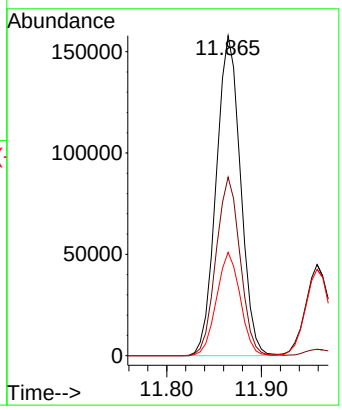


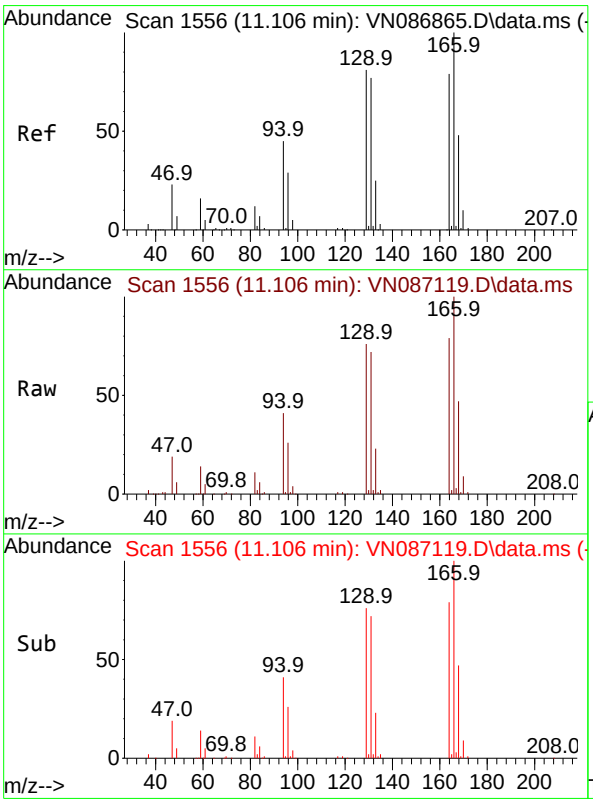
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:117 Resp: 281966

Ion	Ratio	Lower	Upper
117	100		
82	55.8	44.6	67.0
119	32.3	25.5	38.3

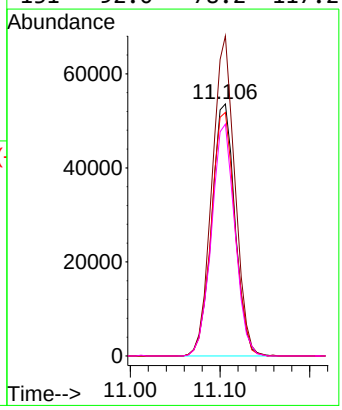


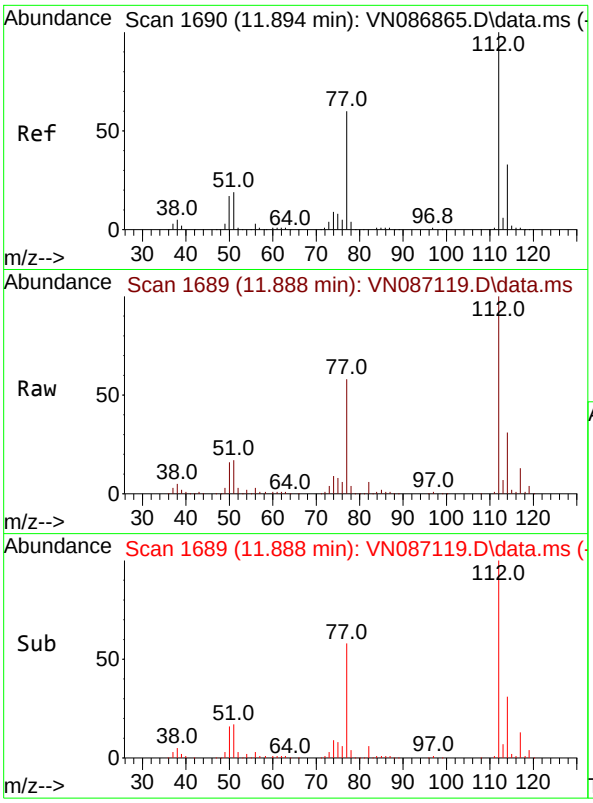


#64
Tetrachloroethene
Concen: 54.082 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:164 Resp: 96507

Ion	Ratio	Lower	Upper
164	100		
166	127.0	101.8	152.8
129	96.6	83.0	124.4
131	92.0	78.2	117.2



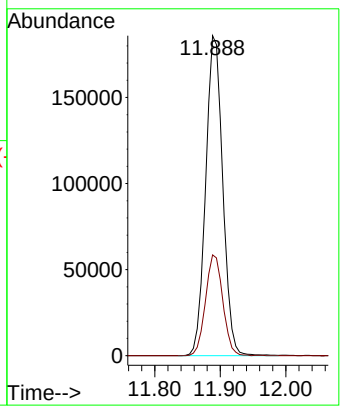


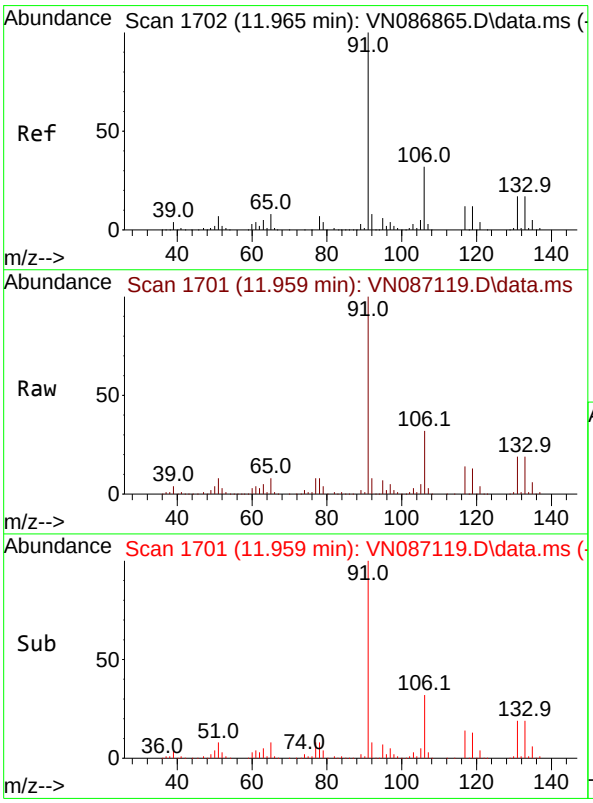
#65
Chlorobenzene
Concen: 54.089 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:112 Resp: 336372

Ion	Ratio	Lower	Upper
112	100		
114	31.5	26.2	39.2

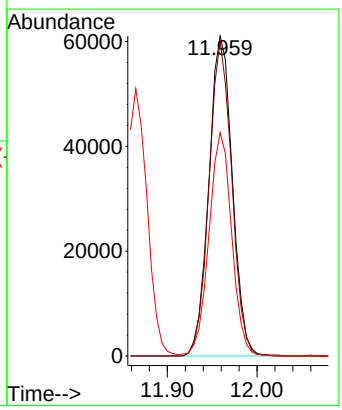


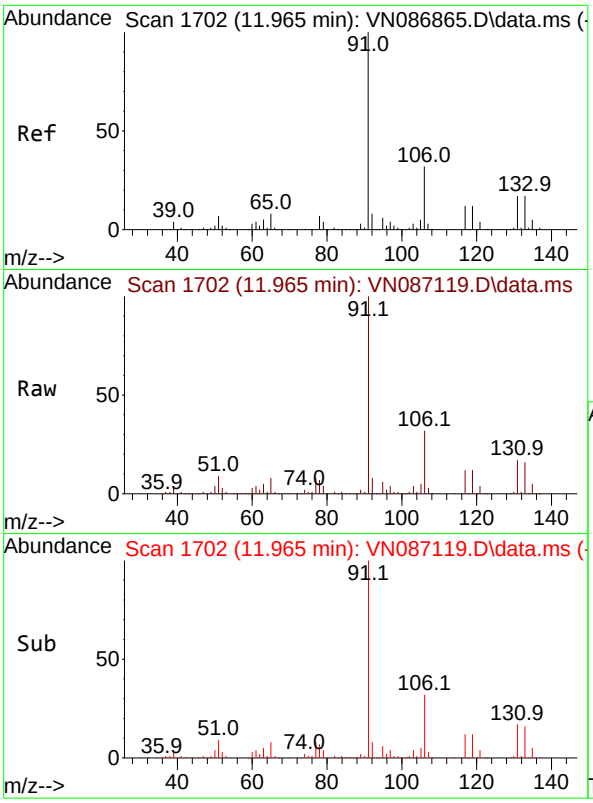


#66
1,1,1,2-Tetrachloroethane
Concen: 55.501 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:131 Resp: 110949

Ion	Ratio	Lower	Upper
131	100		
133	95.4	48.3	144.8
119	67.6	34.0	101.8



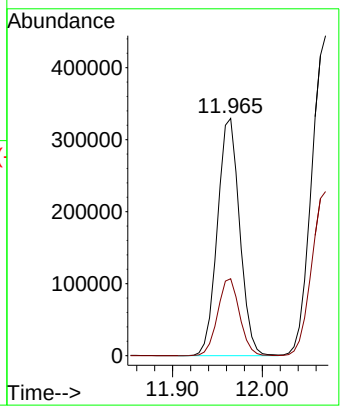


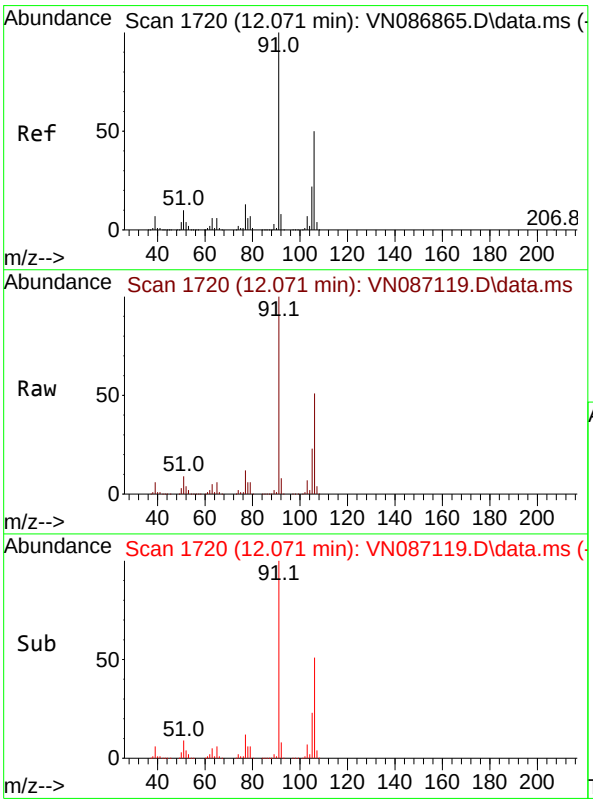
#67
Ethyl Benzene
Concen: 52.935 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 91 Resp: 567034

Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.4	38.2

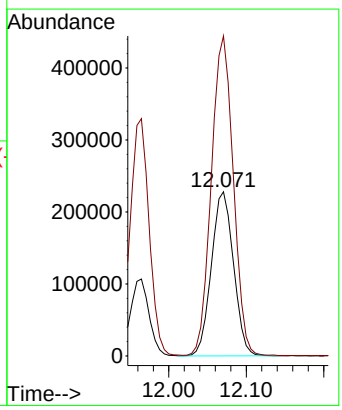


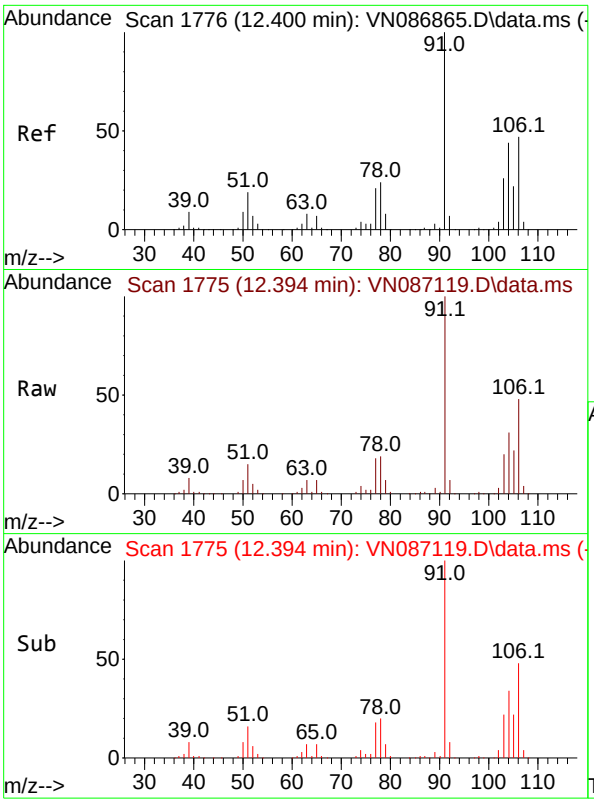


#68
m/p-Xylenes
Concen: 110.005 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:106 Resp: 451077

Ion	Ratio	Lower	Upper
106	100		
91	193.9	159.4	239.0



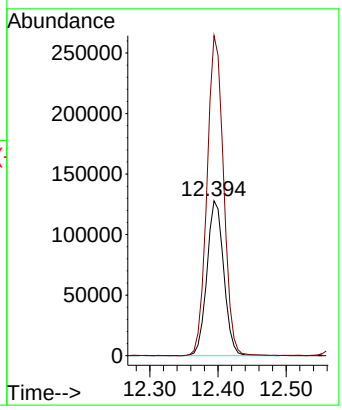


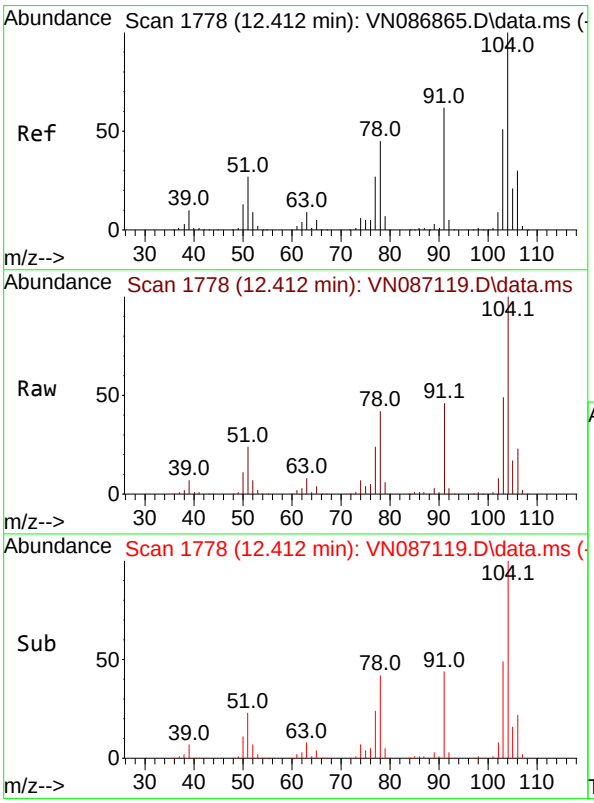
#69
o-Xylene
Concen: 55.857 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:106 Resp: 219362

Ion	Ratio	Lower	Upper
106	100		
91	204.1	106.1	318.1

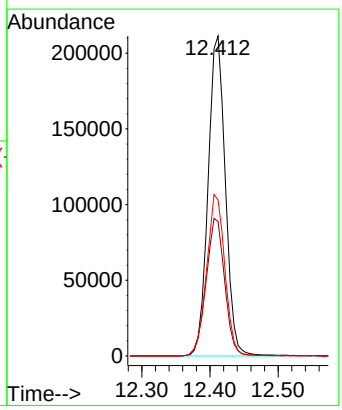


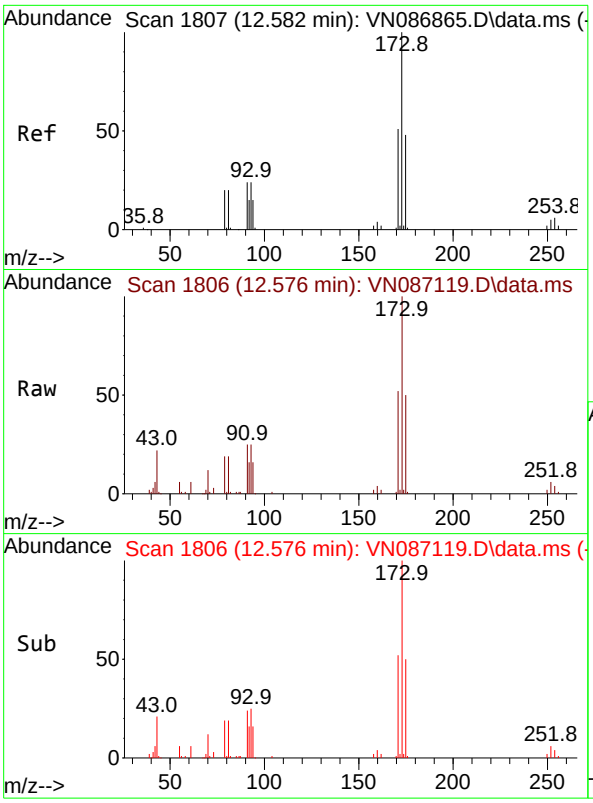


#70
Styrene
Concen: 55.538 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:104 Resp: 373229

Ion	Ratio	Lower	Upper
104	100		
78	46.3	38.5	57.7
103	53.4	43.1	64.7



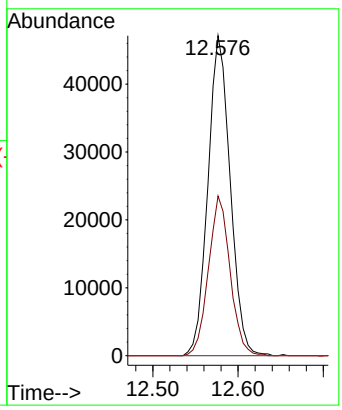


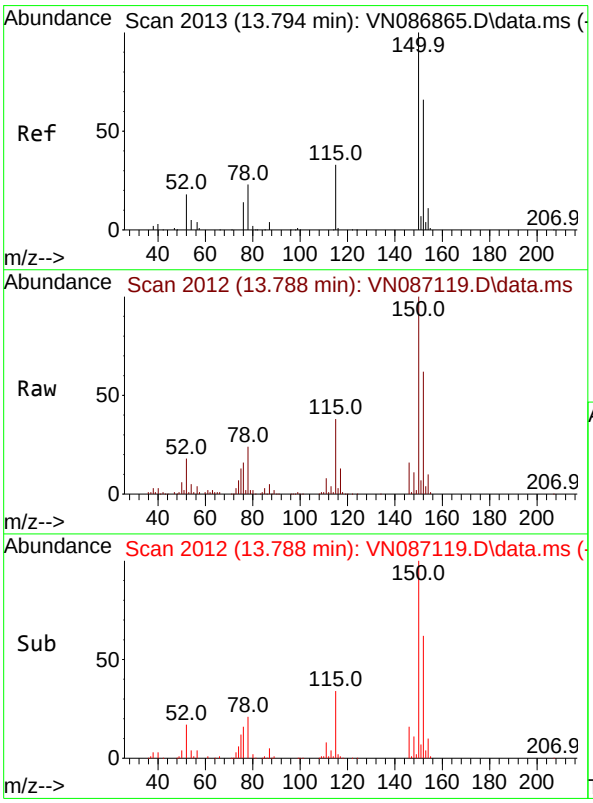
#71
Bromoform
Concen: 57.770 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:173 Resp: 85568

Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.1	72.4
254	0.0	0.0	0.0

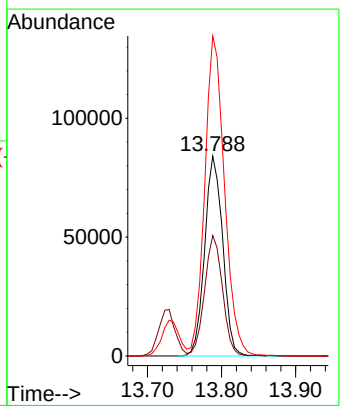


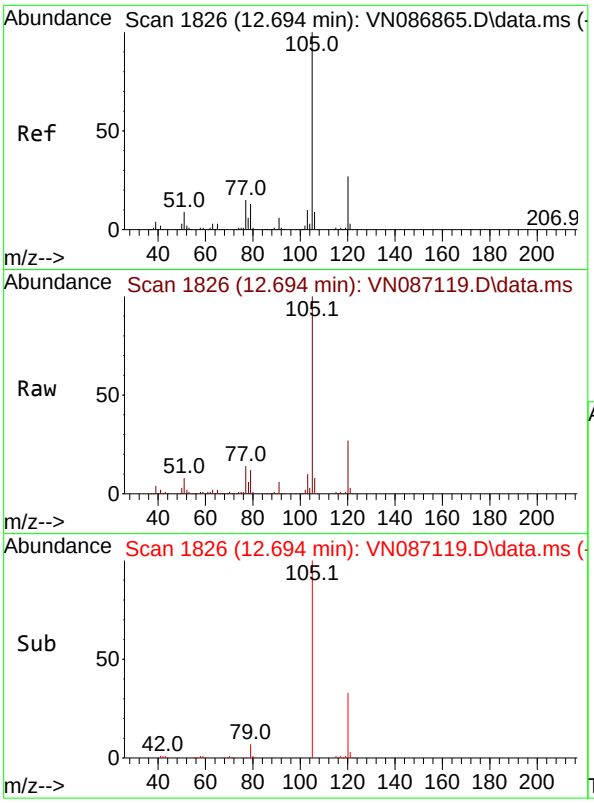


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:152 Resp: 142178

Ion	Ratio	Lower	Upper
152	100		
115	60.0	30.1	90.5
150	175.3	0.0	345.0



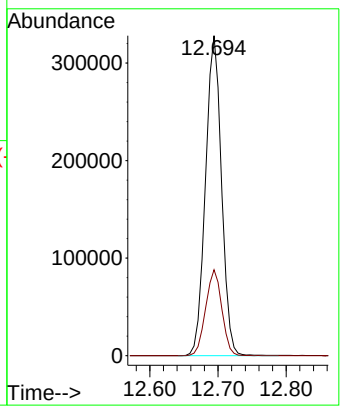


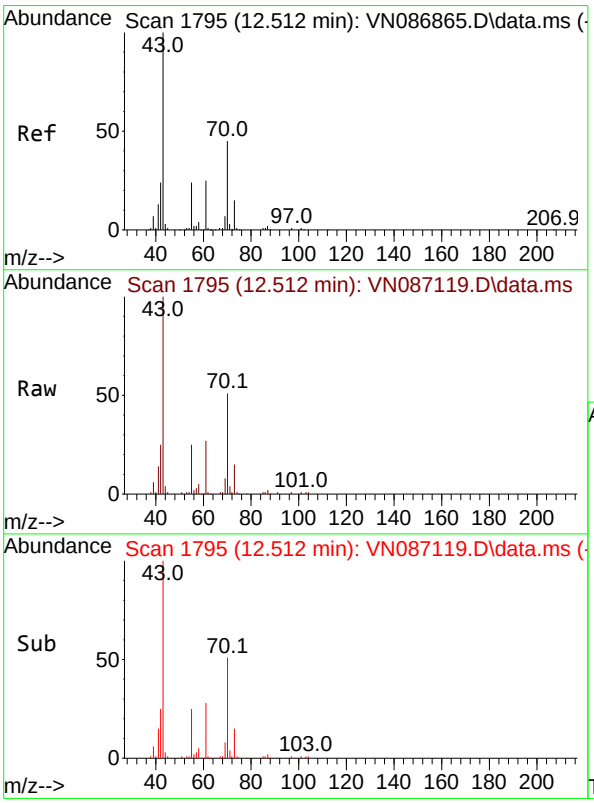
#73
Isopropylbenzene
Concen: 51.746 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:105 Resp: 535971

Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.5	40.4

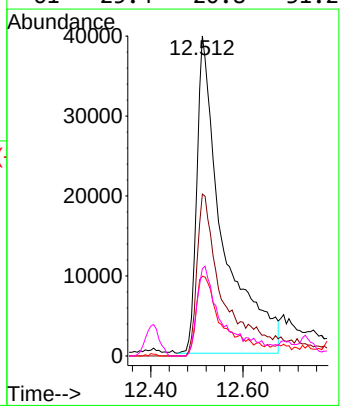


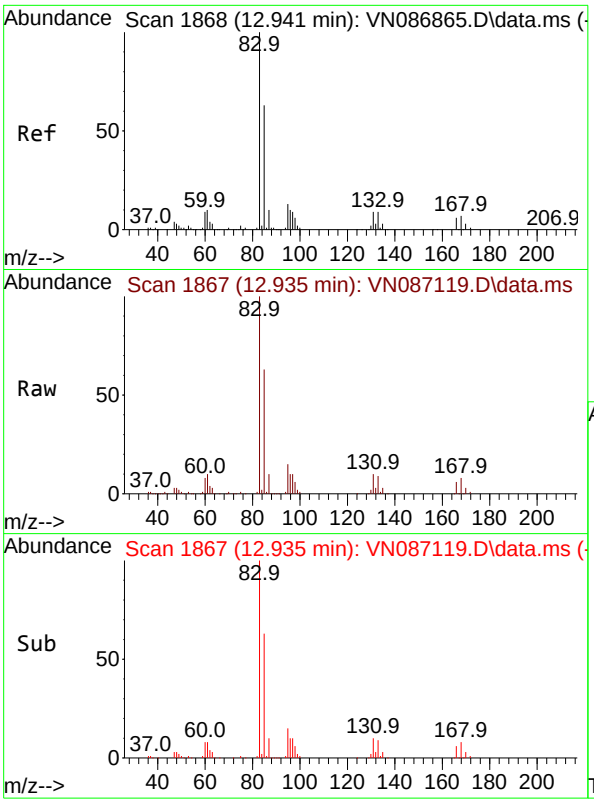


#74
N-amyl acetate
Concen: 42.823 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 43 Resp: 154996

Ion	Ratio	Lower	Upper
43	100		
70	50.6	37.6	56.4
55	24.6	19.0	28.6
61	25.4	20.8	31.2



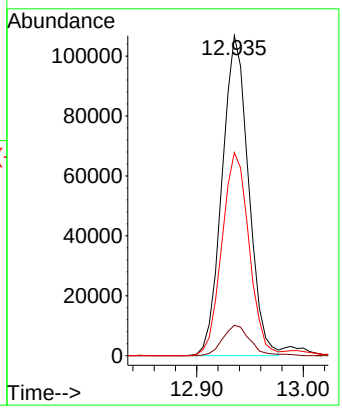


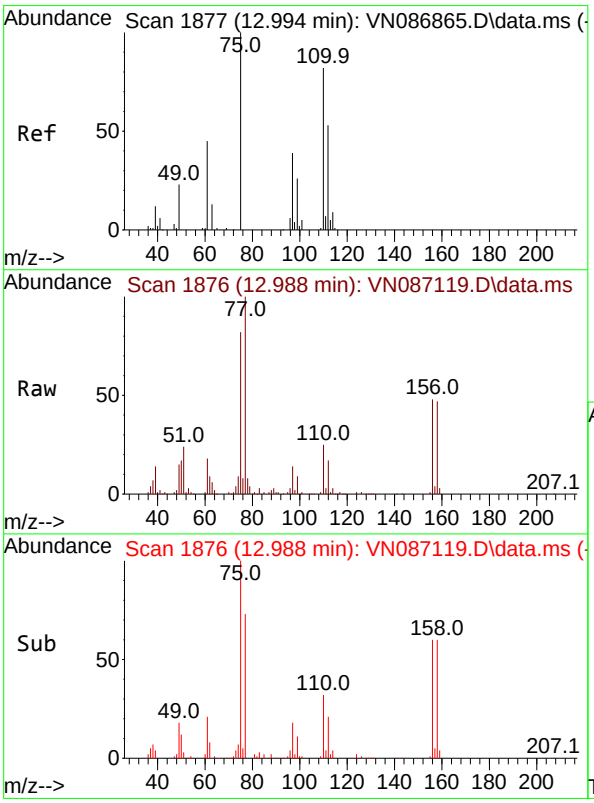
#75
1,1,2,2-Tetrachloroethane
Concen: 52.467 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 83 Resp: 184105

Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.9	14.7
85	65.4	32.0	96.0

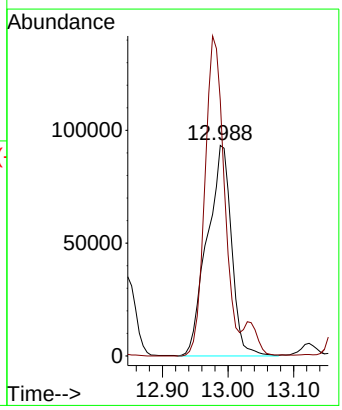


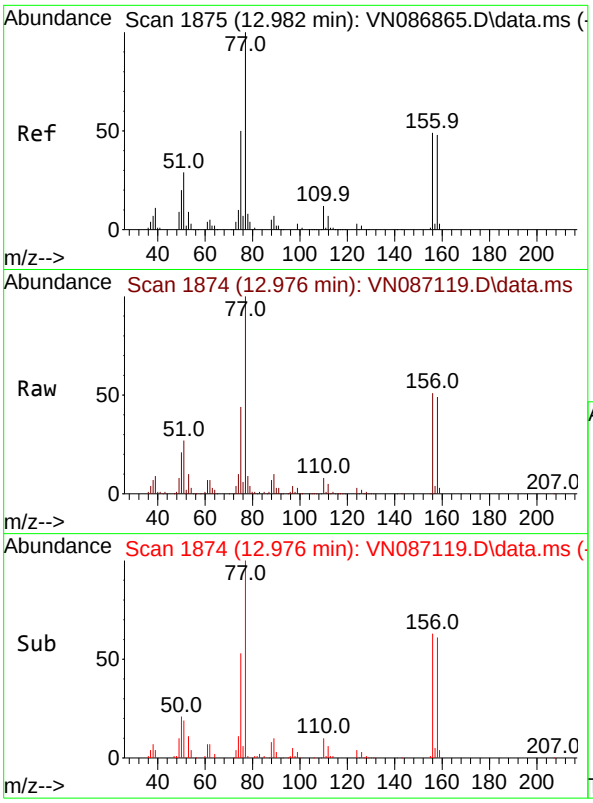


#76
1,2,3-Trichloropropane
Concen: 71.208 ug/l
RT: 12.988 min Scan# 1876
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 75 Resp: 240655

Ion	Ratio	Lower	Upper
75	100		
77	120.6	79.3	237.9



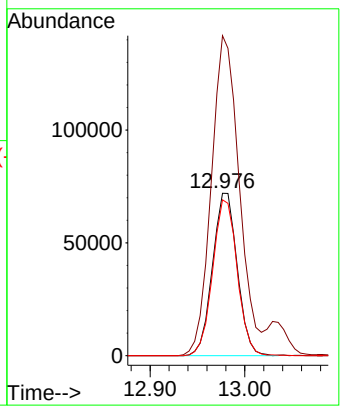


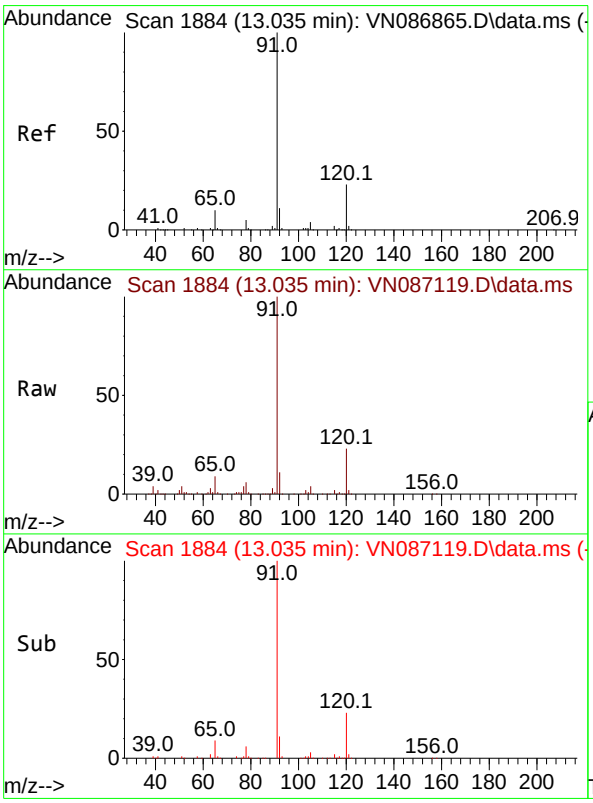
#77
Bromobenzene
Concen: 54.964 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:156 Resp: 130562

Ion	Ratio	Lower	Upper
156	100		
77	222.3	117.7	353.1
158	95.5	48.1	144.4

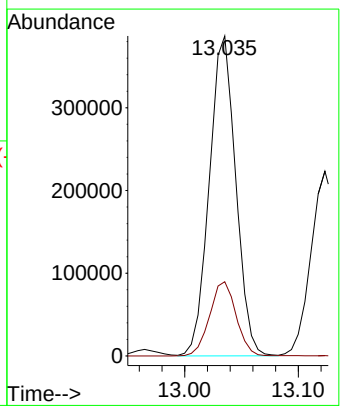


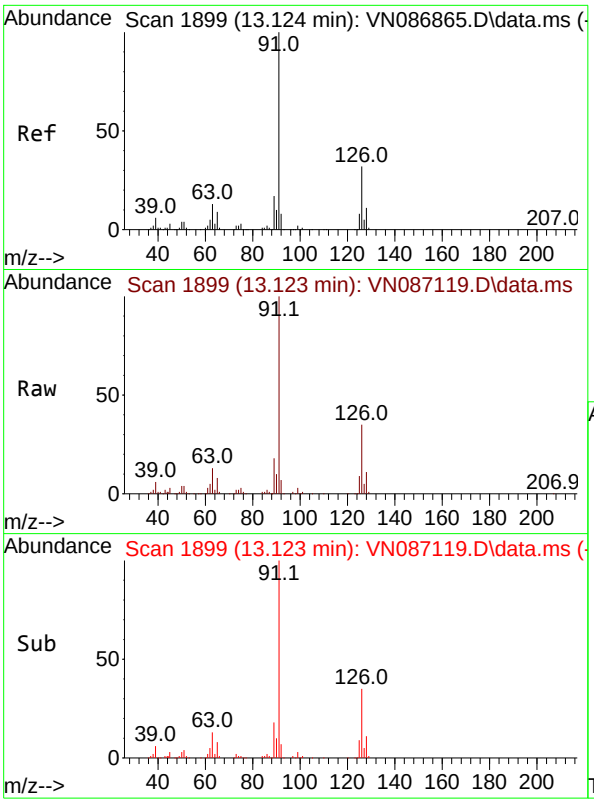


#78
n-propylbenzene
Concen: 49.723 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 91 Resp: 625891

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.4	34.2



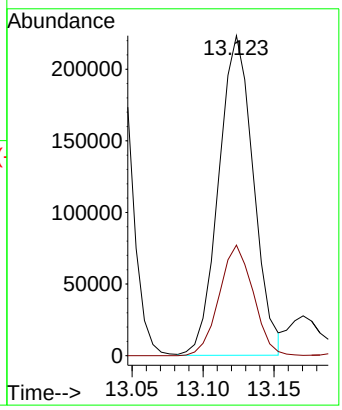


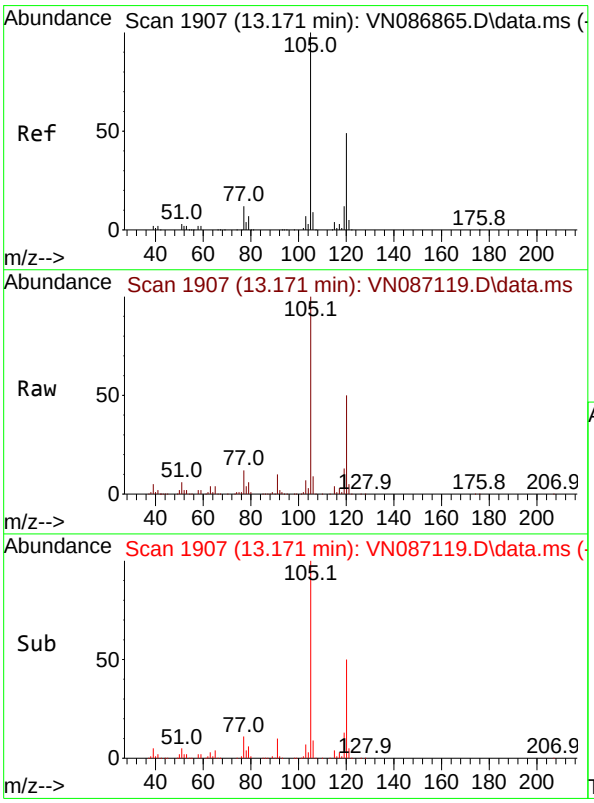
#79
2-Chlorotoluene
Concen: 50.375 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 91 Resp: 380272

Ion	Ratio	Lower	Upper
91	100		
126	33.8	16.2	48.5

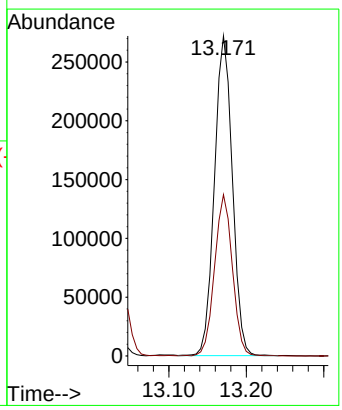


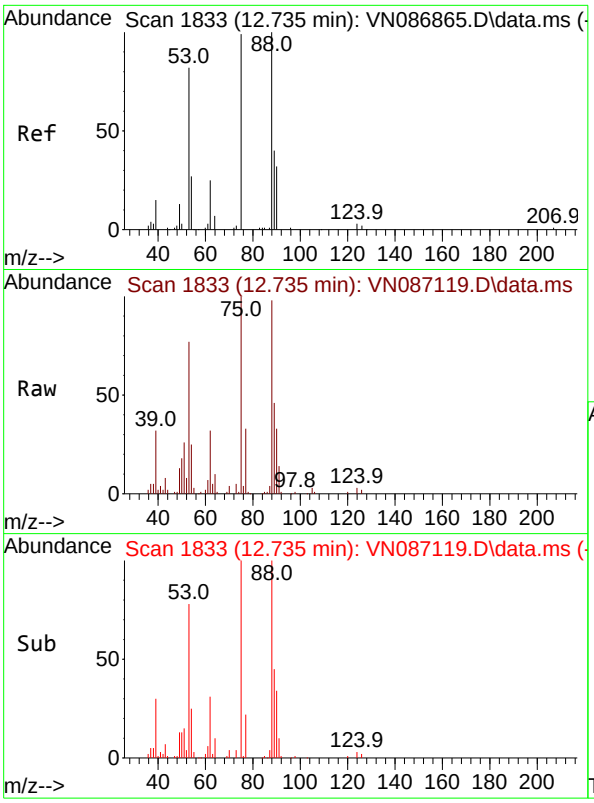


#80
1,3,5-Trimethylbenzene
Concen: 51.145 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:105 Resp: 437368

Ion	Ratio	Lower	Upper
105	100		
120	50.3	24.9	74.6



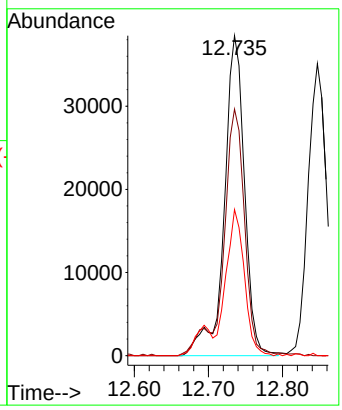


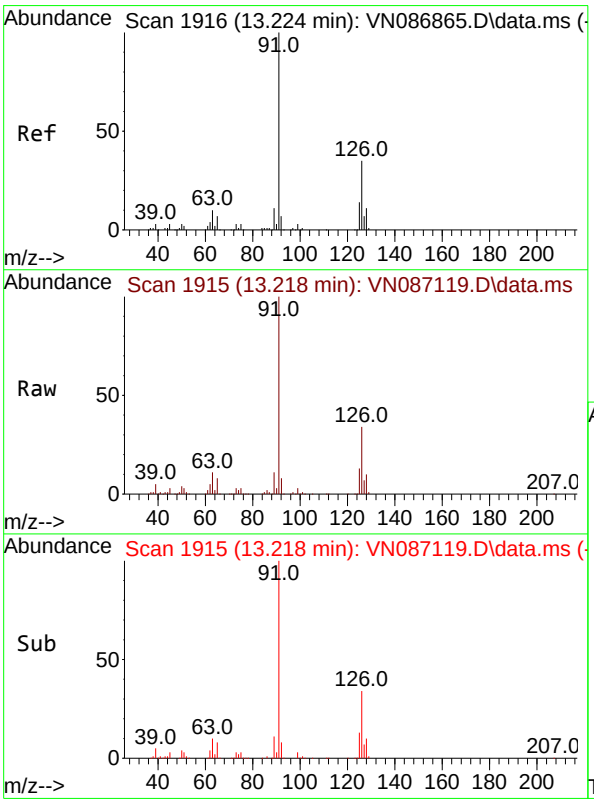
#81
trans-1,4-Dichloro-2-butene
Concen: 49.733 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 75 Resp: 73016

Ion	Ratio	Lower	Upper
75	100		
53	73.2	66.6	99.8
89	41.3	36.7	55.1

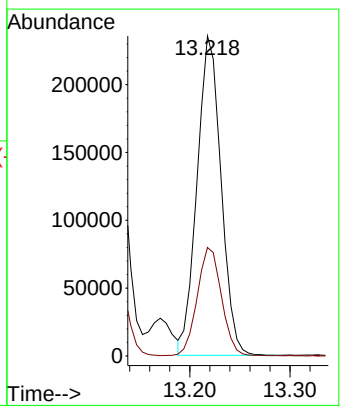


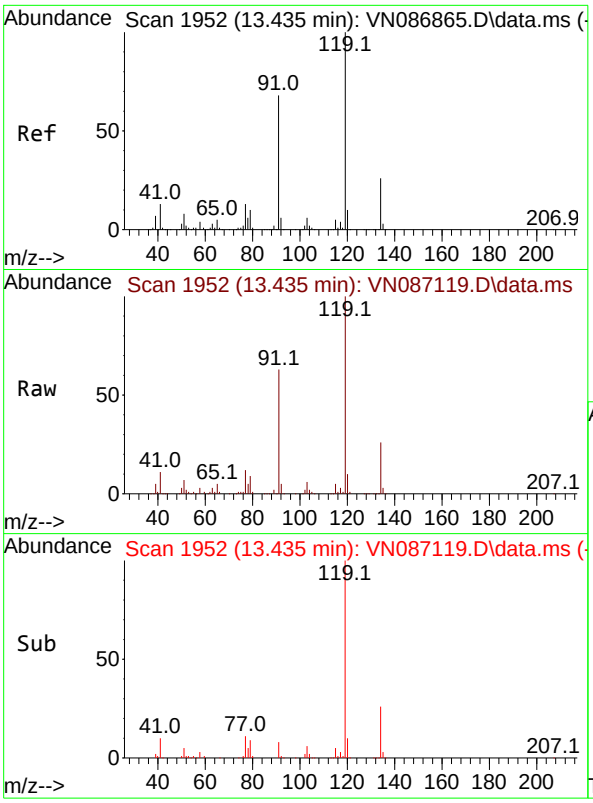


#82
4-Chlorotoluene
Concen: 51.295 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 91 Resp: 391800

Ion	Ratio	Lower	Upper
91	100		
126	34.7	16.7	50.1



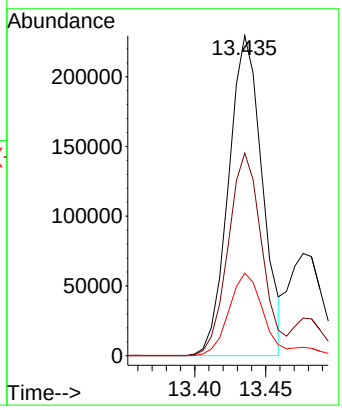


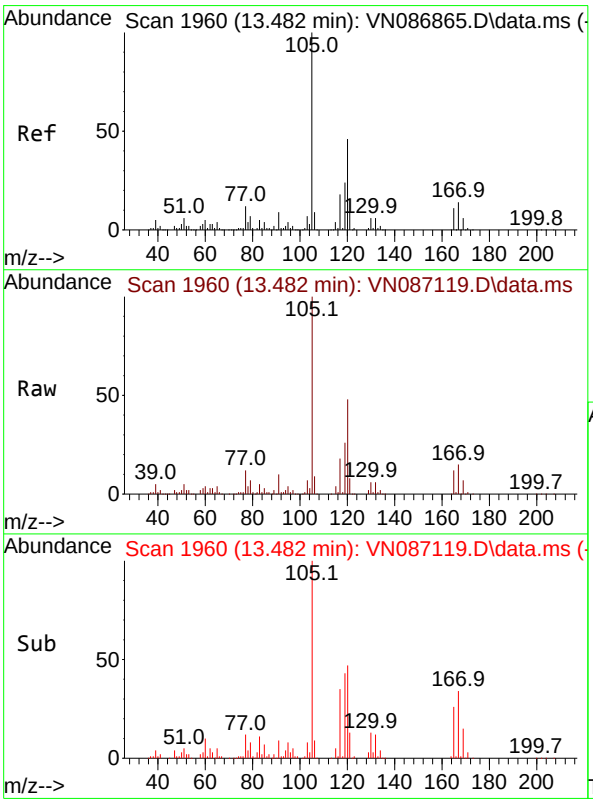
#83
tert-Butylbenzene
Concen: 48.393 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:119 Resp: 378819

Ion	Ratio	Lower	Upper
119	100		
91	63.4	32.1	96.5
134	27.8	13.4	40.1

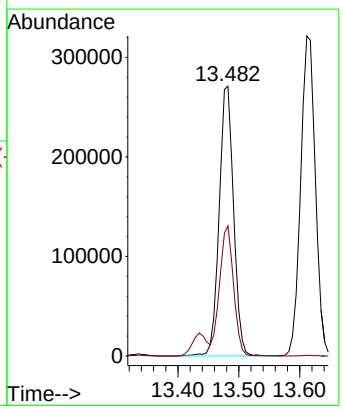


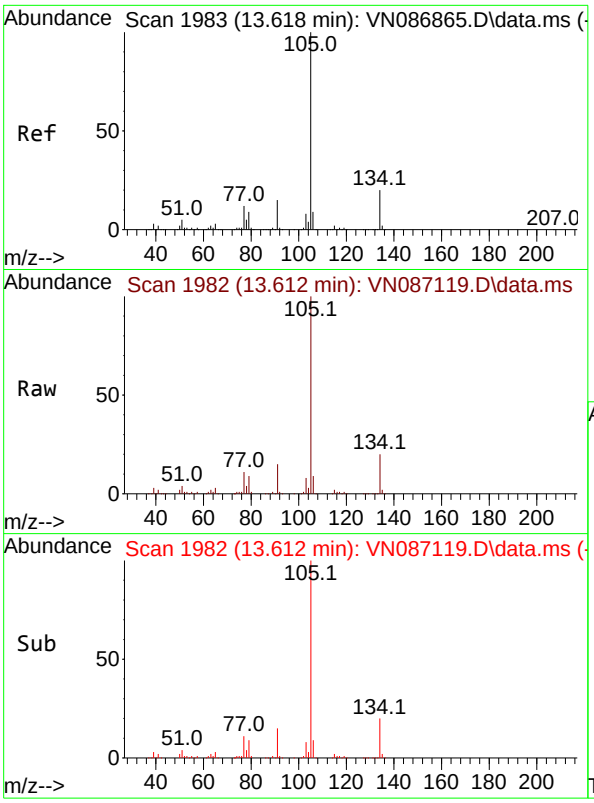


#84
1,2,4-Trimethylbenzene
Concen: 52.009 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:105 Resp: 445991

Ion	Ratio	Lower	Upper
105	100		
120	46.7	23.2	69.6



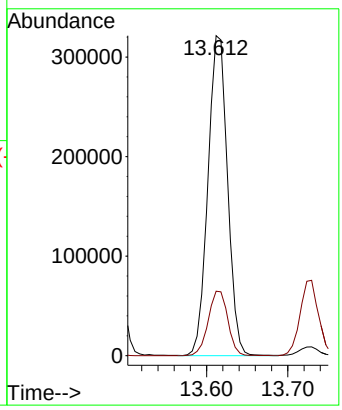


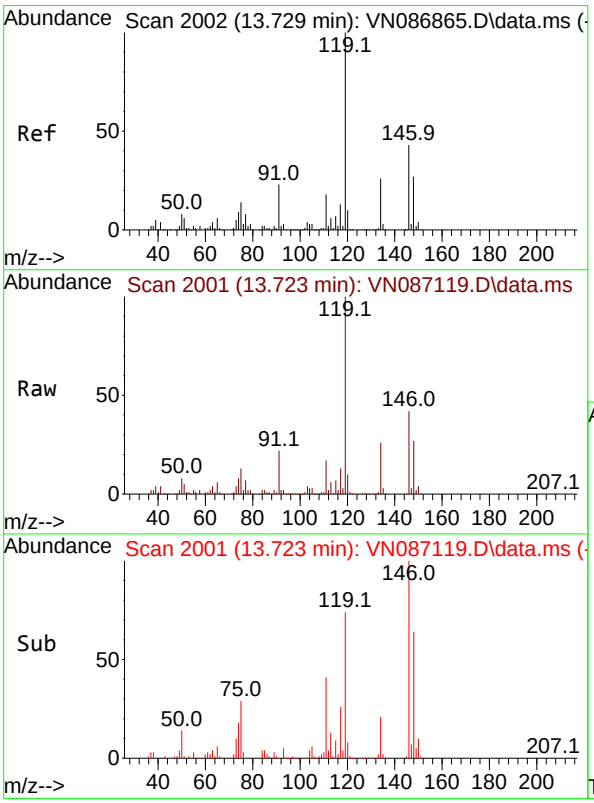
#85
sec-Butylbenzene
Concen: 47.394 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:105 Resp: 538763

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0

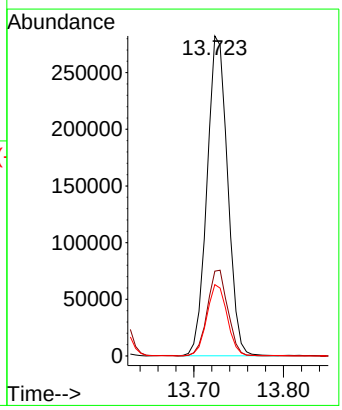


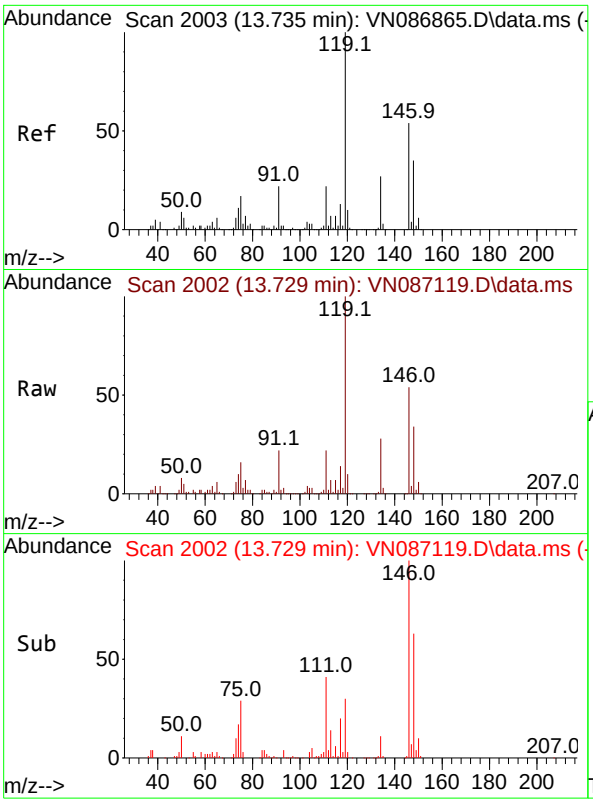


#86
p-Isopropyltoluene
Concen: 47.811 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:119 Resp: 449281

Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.5	40.4
91	21.9	11.5	34.4



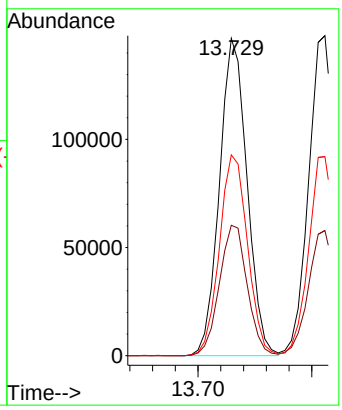


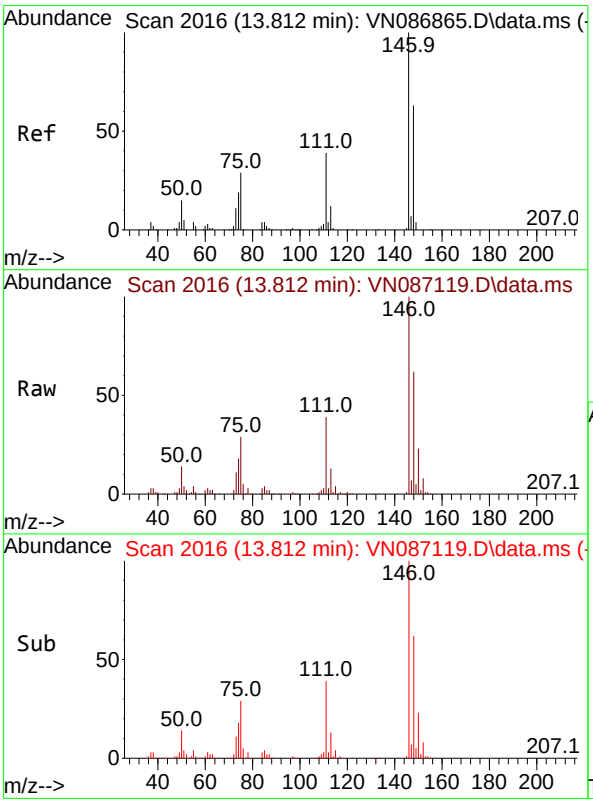
#87
1,3-Dichlorobenzene
Concen: 52.890 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:146 Resp: 247185

Ion	Ratio	Lower	Upper
146	100		
111	41.6	20.9	62.8
148	64.5	32.0	96.2

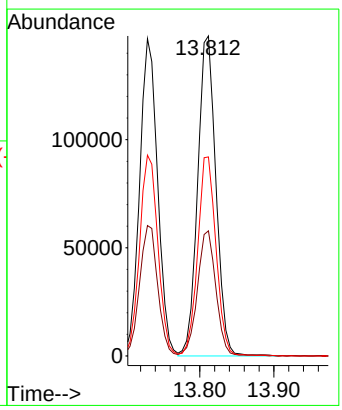


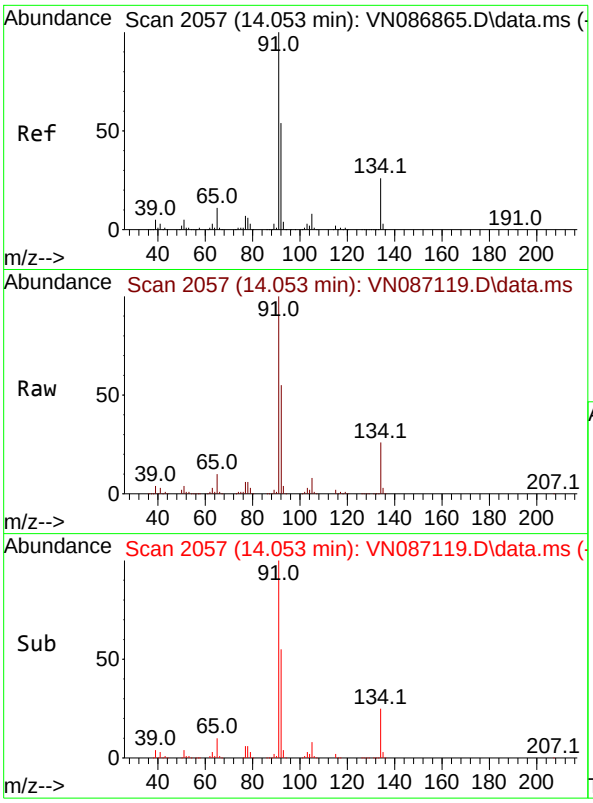


#88
1,4-Dichlorobenzene
Concen: 53.165 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:146 Resp: 253319

Ion	Ratio	Lower	Upper
146	100		
111	38.8	19.9	59.7
148	62.5	31.8	95.4



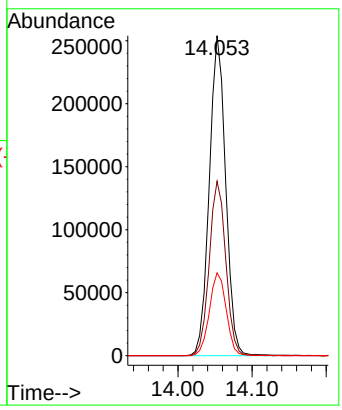


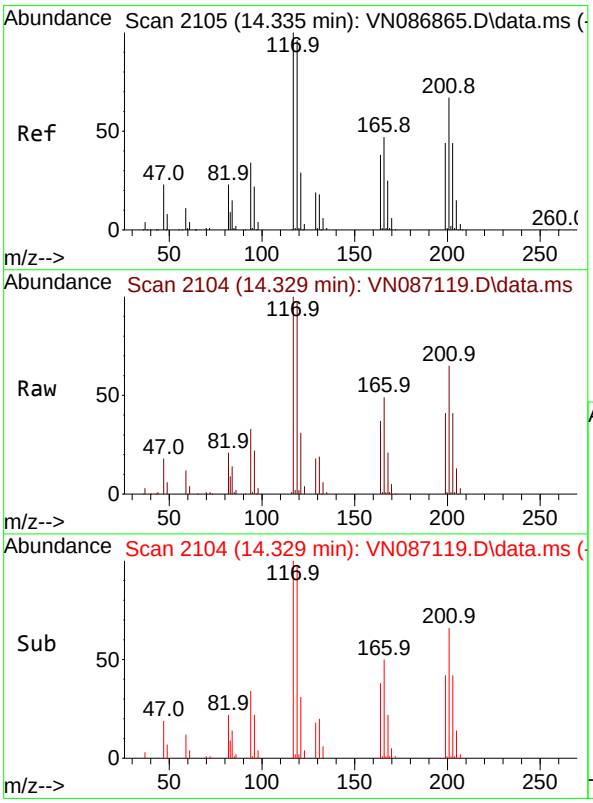
#89
n-Butylbenzene
Concen: 42.752 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 91 Resp: 389128

Ion	Ratio	Lower	Upper
91	100		
92	55.2	27.5	82.4
134	26.6	13.0	39.0

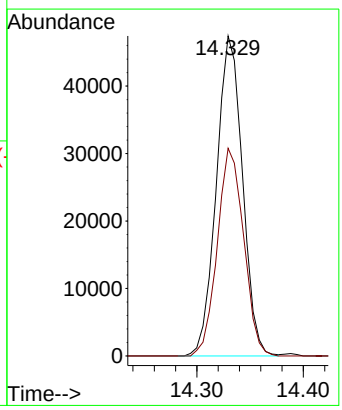


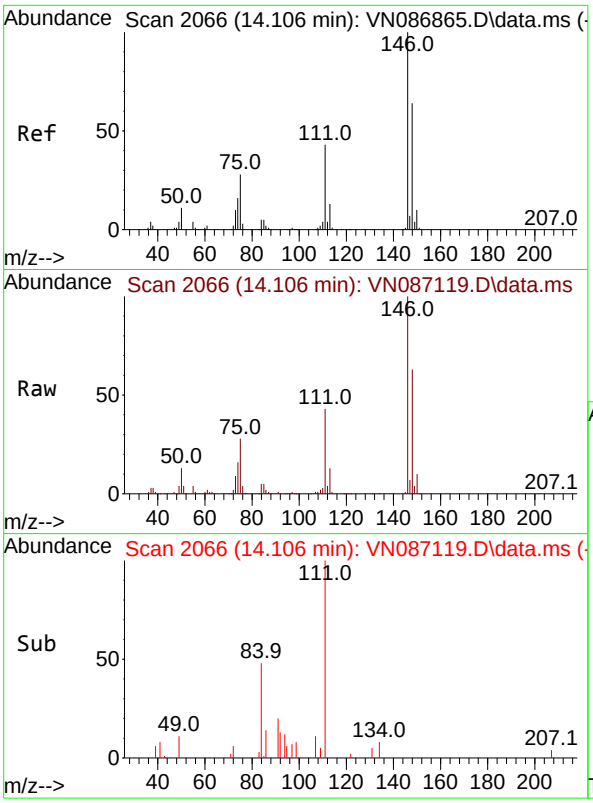


#90
Hexachloroethane
Concen: 50.694 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:117 Resp: 80747

Ion	Ratio	Lower	Upper
117	100		
201	65.5	33.2	99.6



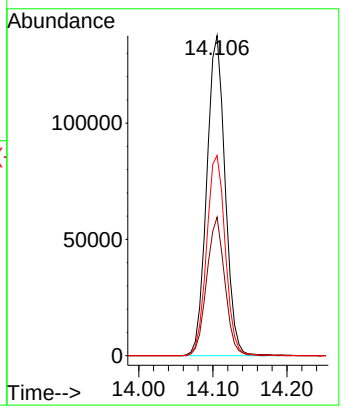


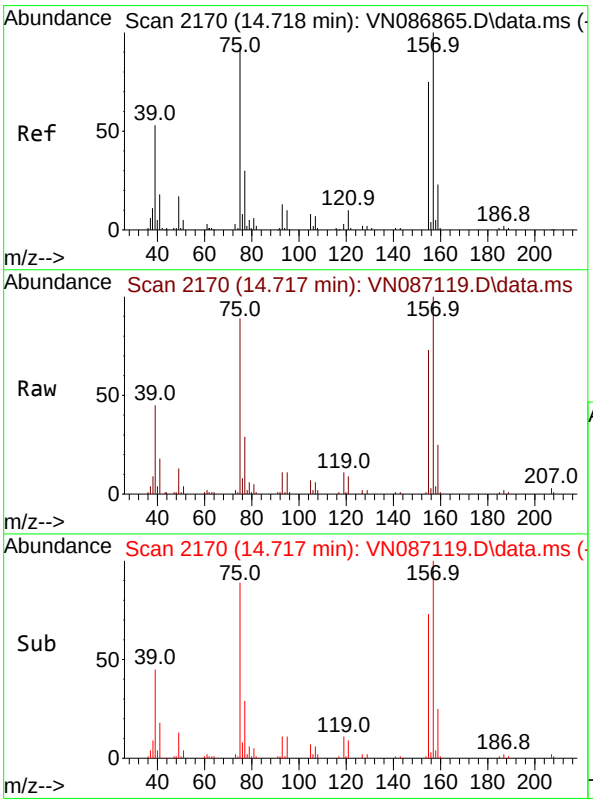
#91
1,2-Dichlorobenzene
Concen: 52.741 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:146 Resp: 236809

Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.6	64.6
148	63.6	31.7	95.1

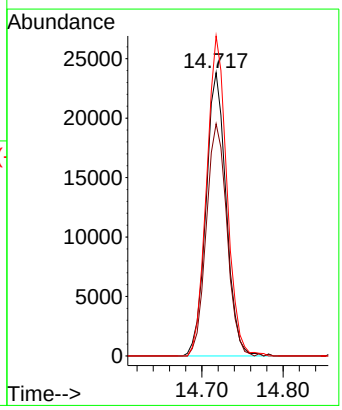


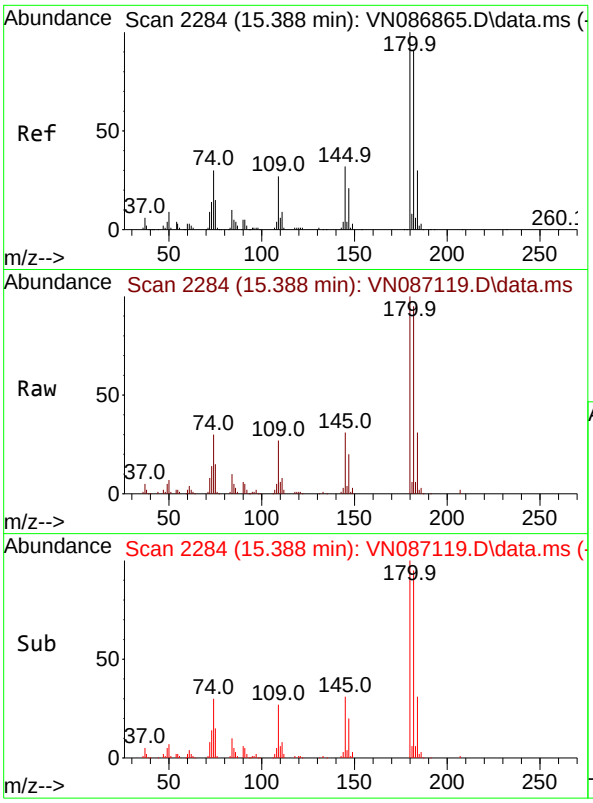


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.981 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion: 75 Resp: 41104

Ion	Ratio	Lower	Upper
75	100		
155	83.7	41.1	123.4
157	113.3	52.7	158.1



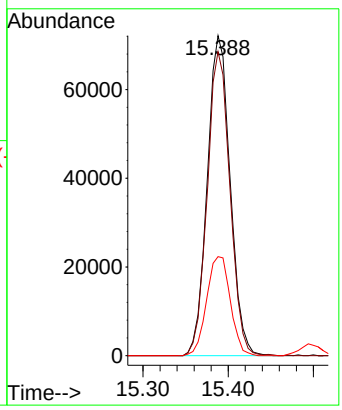


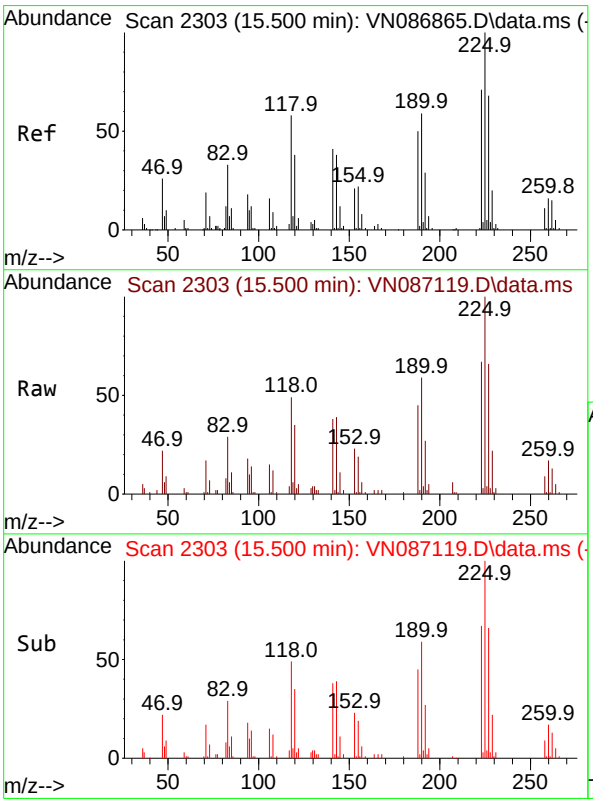
#93
1,2,4-Trichlorobenzene
Concen: 47.005 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:180 Resp: 134773

Ion	Ratio	Lower	Upper
180	100		
182	93.9	46.9	140.7
145	32.0	16.0	47.9

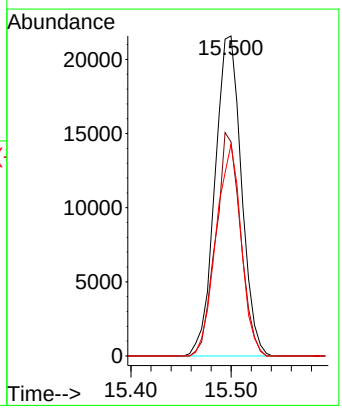


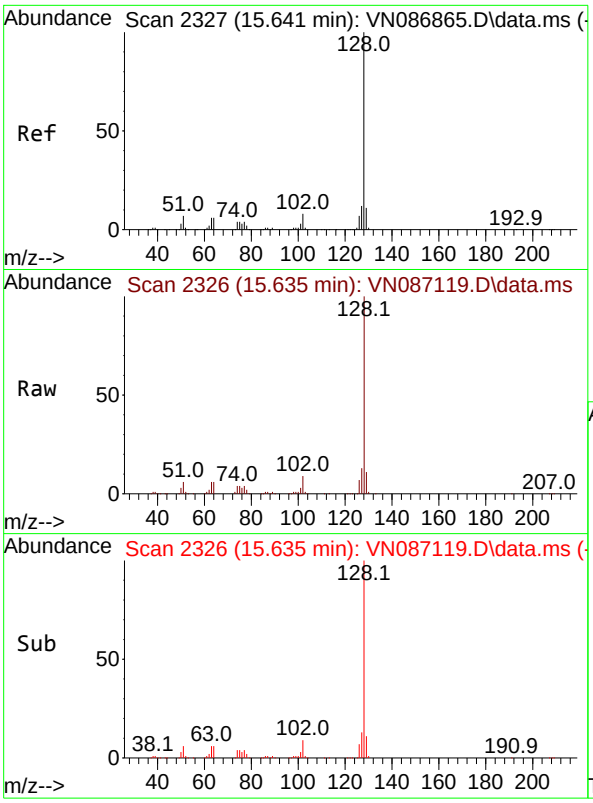


#94
Hexachlorobutadiene
Concen: 37.040 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:225 Resp: 39567

Ion	Ratio	Lower	Upper
225	100		
223	65.2	33.5	100.4
227	62.8	31.1	93.5



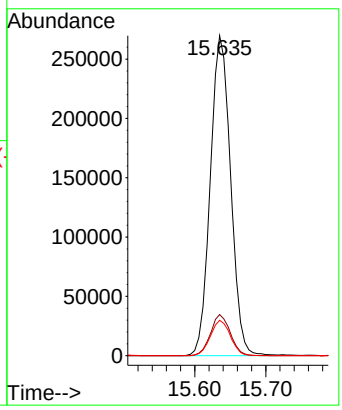


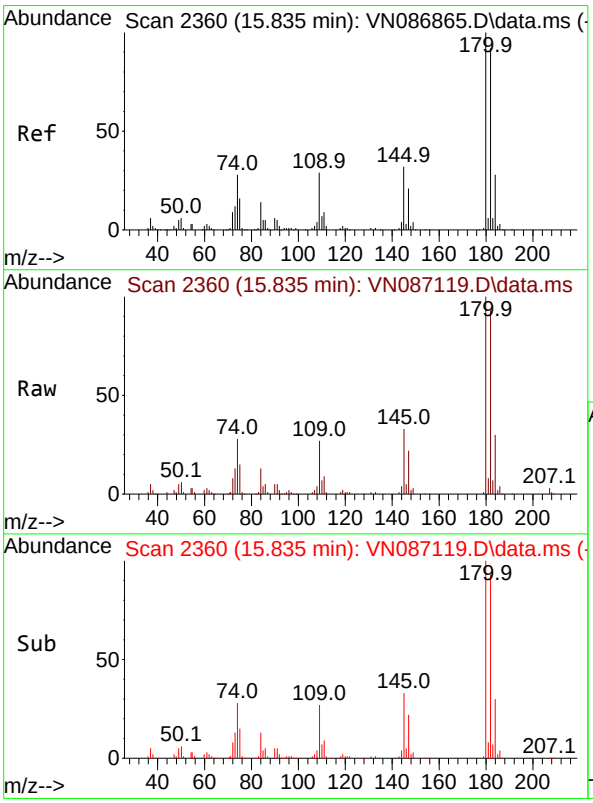
#95
Naphthalene
Concen: 50.223 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Instrument :
MSVOA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:128 Resp: 535992

Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.2
129	10.9	8.8	13.2

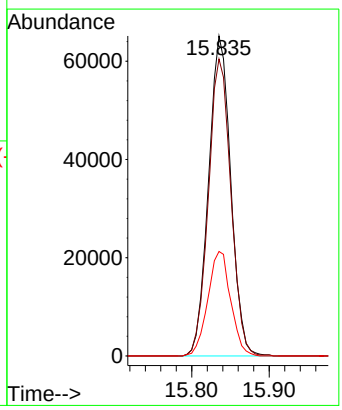




#96
1,2,3-Trichlorobenzene
Concen: 45.564 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087119.D
Acq: 19 Jun 2025 17:52

Tgt Ion:180 Resp: 129799

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.0	141.0
145	33.6	16.6	49.8



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	171846	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	306033	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	268361	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136487	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	106748	46.395	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.800%			
35) Dibromofluoromethane	8.171	113	94646	52.186	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.380%			
50) Toluene-d8	10.565	98	354172	49.330	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.660%			
62) 4-Bromofluorobenzene	12.847	95	134875	50.563	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.120%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.153	85	82875	48.368	ug/l	100
3) Chloromethane	2.395	50	90383	40.850	ug/l	97
4) Vinyl Chloride	2.553	62	116257	50.937	ug/l	98
5) Bromomethane	2.989	94	64801	50.735	ug/l	100
6) Chloroethane	3.153	64	74345	50.428	ug/l	92
7) Trichlorofluoromethane	3.524	101	151601	50.839	ug/l	99
8) Diethyl Ether	3.983	74	65083	50.093	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.394	101	93038	49.660	ug/l	99
10) Methyl Iodide	4.612	142	82959	34.158	ug/l	98
11) Tert butyl alcohol	5.536	59	137131	219.653	ug/l	99
12) 1,1-Dichloroethene	4.371	96	97574	51.014	ug/l	90
13) Acrolein	4.200	56	42652	215.834	ug/l	98
14) Allyl chloride	5.047	41	138488	43.658	ug/l	96
15) Acrylonitrile	5.736	53	336803	230.809	ug/l	100
16) Acetone	4.447	43	251966	206.505	ug/l	95
17) Carbon Disulfide	4.742	76	272197	51.448	ug/l	98
18) Methyl Acetate	5.042	43	150668	42.374	ug/l	96
19) Methyl tert-butyl Ether	5.812	73	333883	48.211	ug/l	98
20) Methylene Chloride	5.300	84	109053	47.740	ug/l	92
21) trans-1,2-Dichloroethene	5.806	96	103590	48.679	ug/l	94
22) Diisopropyl ether	6.683	45	302028	45.170	ug/l	97
23) Vinyl Acetate	6.618	43	1308153	231.557	ug/l	97
24) 1,1-Dichloroethane	6.583	63	186312	48.418	ug/l	99
25) 2-Butanone	7.488	43	420559	212.049	ug/l	95
26) 2,2-Dichloropropane	7.500	77	150789	50.377	ug/l	99
27) cis-1,2-Dichloroethene	7.494	96	125637	49.366	ug/l	98
28) Bromochloromethane	7.824	49	80614	42.609	ug/l	91
29) Tetrahydrofuran	7.847	42	279595	216.407	ug/l	94
30) Chloroform	7.971	83	183860	47.846	ug/l	94
31) Cyclohexane	8.265	56	166407	44.593	ug/l	93
32) 1,1,1-Trichloroethane	8.177	97	157349	48.143	ug/l	98
36) 1,1-Dichloropropene	8.382	75	137000	50.694	ug/l	99
37) Ethyl Acetate	7.571	43	157538	45.793	ug/l	98
38) Carbon Tetrachloride	8.371	117	133489	50.312	ug/l	96
39) Methylcyclohexane	9.606	83	163439	44.143	ug/l	96
40) Benzene	8.612	78	439499	49.733	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.788	41	82321	42.608	ug/l		90
42) 1,2-Dichloroethane	8.671	62	129038	48.141	ug/l		98
43) Isopropyl Acetate	8.694	43	243496	44.098	ug/l		96
44) Trichloroethene	9.353	130	107576	51.338	ug/l		98
45) 1,2-Dichloropropane	9.624	63	107860	50.168	ug/l		99
46) Dibromomethane	9.712	93	73457	51.439	ug/l		99
47) Bromodichloromethane	9.888	83	145562	49.542	ug/l		98
48) Methyl methacrylate	9.682	41	111561	43.897	ug/l		95
49) 1,4-Dioxane	9.706	88	47393	1025.069	ug/l	#	98
51) 4-Methyl-2-Pentanone	10.447	43	766458	230.578	ug/l		97
52) Toluene	10.629	92	272681	50.490	ug/l		98
53) t-1,3-Dichloropropene	10.835	75	165272	50.304	ug/l		98
54) cis-1,3-Dichloropropene	10.312	75	175866	50.028	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	102325	49.240	ug/l		97
56) Ethyl methacrylate	10.882	69	168508	50.911	ug/l		94
57) 1,3-Dichloropropane	11.165	76	178447	49.502	ug/l		100
58) 2-Chloroethyl Vinyl ether	10.159	63	444423	225.119	ug/l		99
59) 2-Hexanone	11.200	43	498716	232.920	ug/l		93
60) Dibromochloromethane	11.359	129	114404	52.840	ug/l		99
61) 1,2-Dibromoethane	11.470	107	107761	50.592	ug/l		99
64) Tetrachloroethene	11.106	164	84024	49.473	ug/l		97
65) Chlorobenzene	11.888	112	298669	50.461	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.959	131	98738	51.897	ug/l		98
67) Ethyl Benzene	11.965	91	498126	48.860	ug/l		98
68) m/p-Xylenes	12.070	106	402639	103.171	ug/l		96
69) o-Xylene	12.394	106	194516	52.041	ug/l		95
70) Styrene	12.412	104	327523	51.208	ug/l		99
71) Bromoform	12.576	173	75851	53.806	ug/l	#	99
73) Isopropylbenzene	12.694	105	476017	47.874	ug/l		100
74) N-amyl acetate	12.518	43	135586	39.022	ug/l		94
75) 1,1,2,2-Tetrachloroethane	12.935	83	160726	47.714	ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	216616	66.767	ug/l		70
77) Bromobenzene	12.976	156	116672	51.165	ug/l		94
78) n-propylbenzene	13.035	91	563557	46.638	ug/l		99
79) 2-Chlorotoluene	13.123	91	336805	46.477	ug/l		97
80) 1,3,5-Trimethylbenzene	13.170	105	392465	47.807	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	68115	48.329	ug/l		88
82) 4-Chlorotoluene	13.217	91	347235	47.356	ug/l		98
83) tert-Butylbenzene	13.435	119	338090	44.991	ug/l		99
84) 1,2,4-Trimethylbenzene	13.482	105	398780	48.443	ug/l		100
85) sec-Butylbenzene	13.612	105	486035	44.538	ug/l		100
86) p-Isopropyltoluene	13.729	119	408834	45.321	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	223232	49.757	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	227638	49.767	ug/l		100
89) n-Butylbenzene	14.053	91	358266	41.002	ug/l		99
90) Hexachloroethane	14.329	117	71475	46.744	ug/l		99
91) 1,2-Dichlorobenzene	14.106	146	209913	48.700	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	36024	44.717	ug/l		94
93) 1,2,4-Trichlorobenzene	15.388	180	122224	44.406	ug/l		100
94) Hexachlorobutadiene	15.494	225	39636	38.652	ug/l		98
95) Naphthalene	15.635	128	475760	46.438	ug/l		99
96) 1,2,3-Trichlorobenzene	15.835	180	116780	42.704	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

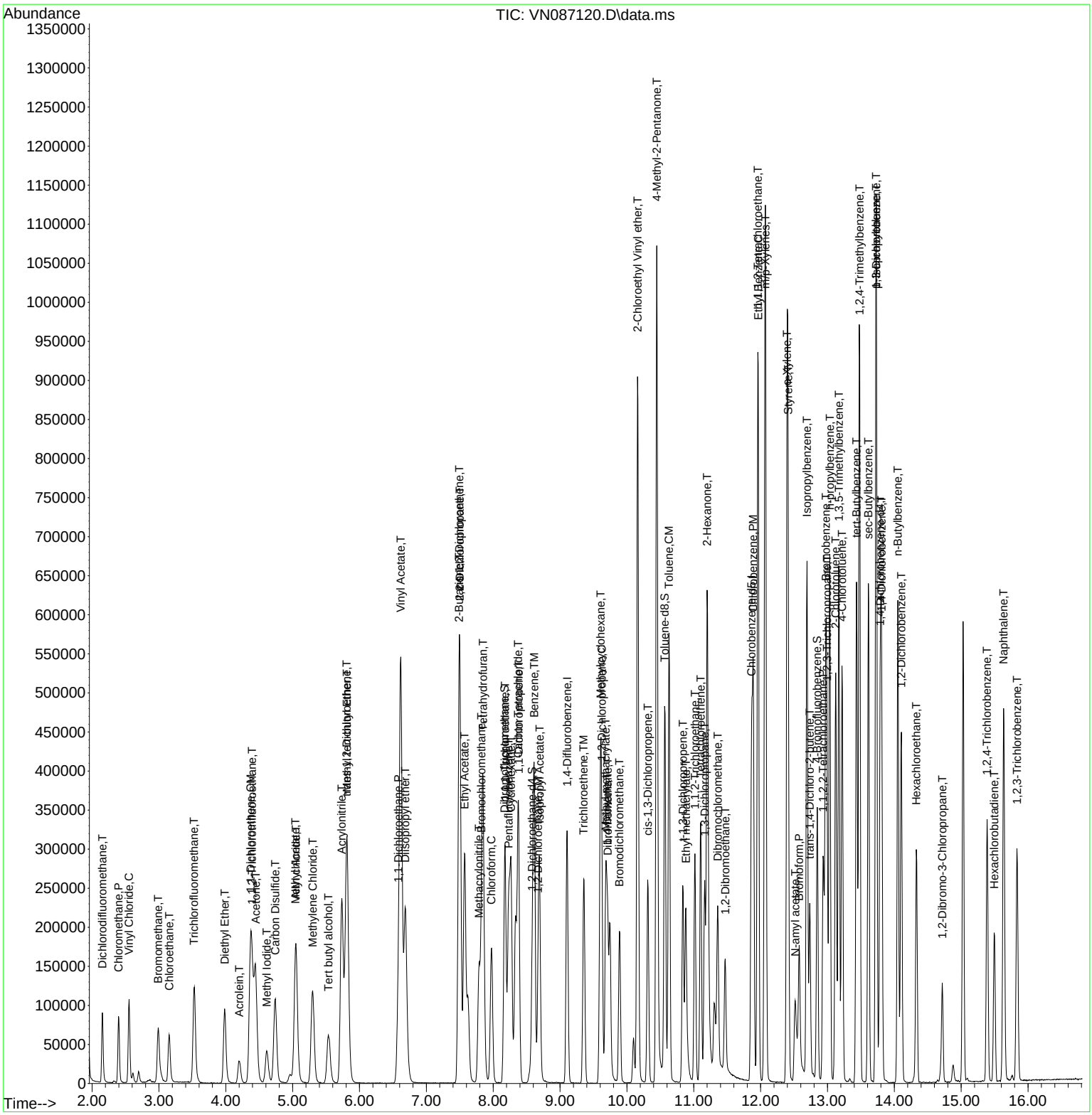
(#) = qualifier out of range (m) = manual integration (+) = signals summed

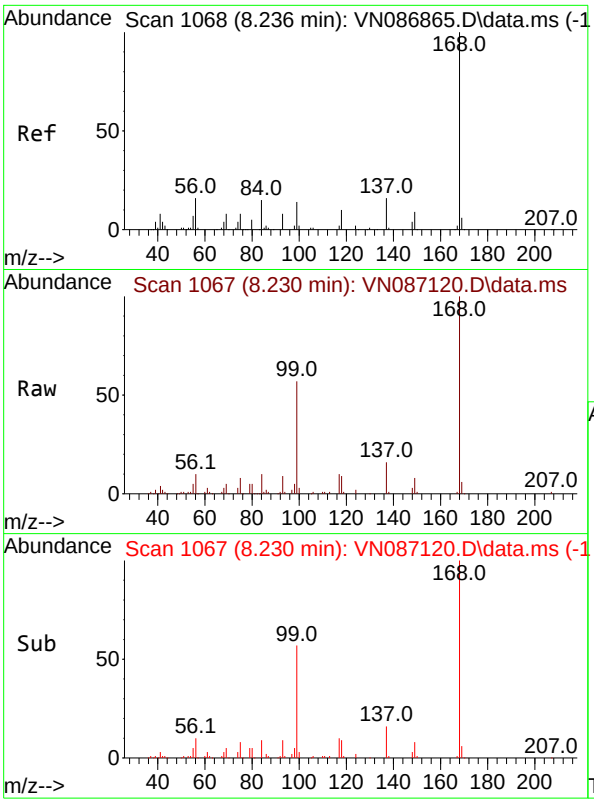
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061925\
Data File : VN087120.D
Acq On : 19 Jun 2025 18:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Quant Time: Jun 20 01:31:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



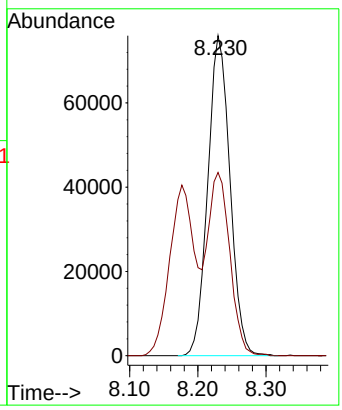


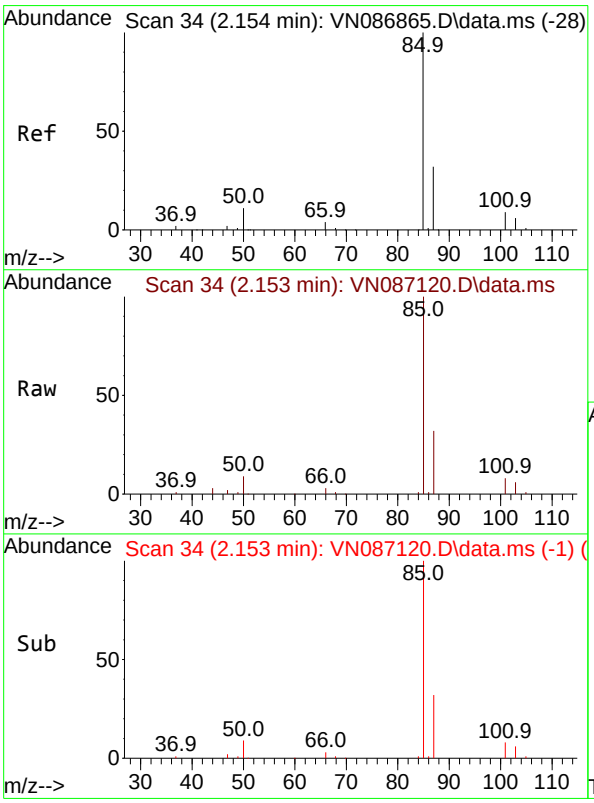
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:168 Resp: 171846

Ion	Ratio	Lower	Upper
168	100		
99	57.2	49.1	73.7

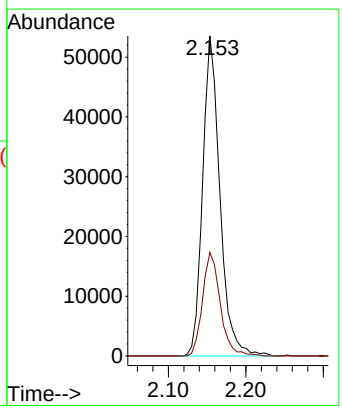


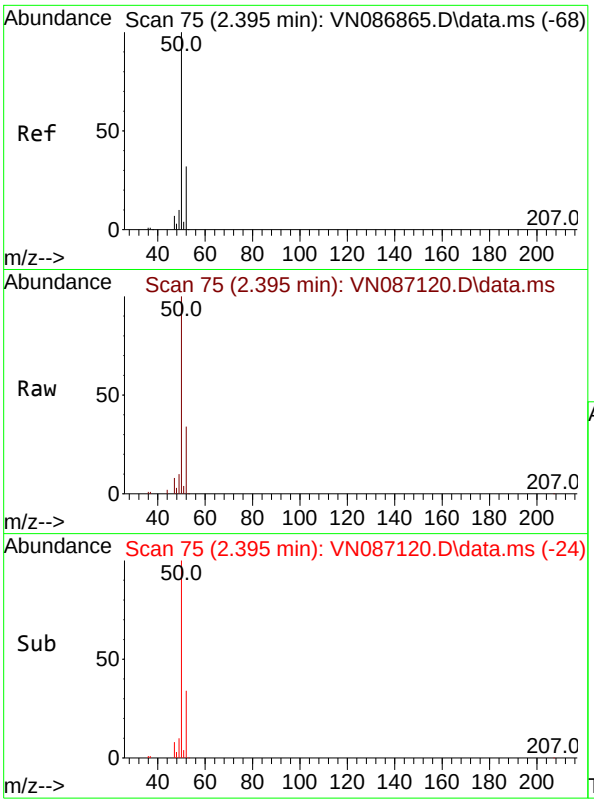


#2
Dichlorodifluoromethane
Concen: 48.368 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 85 Resp: 82875

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.2	48.6



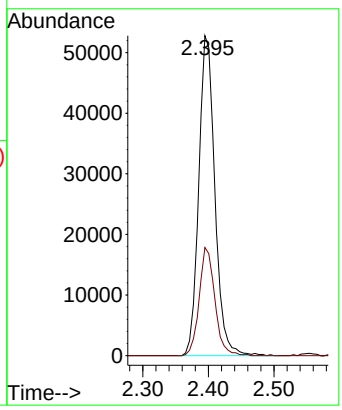


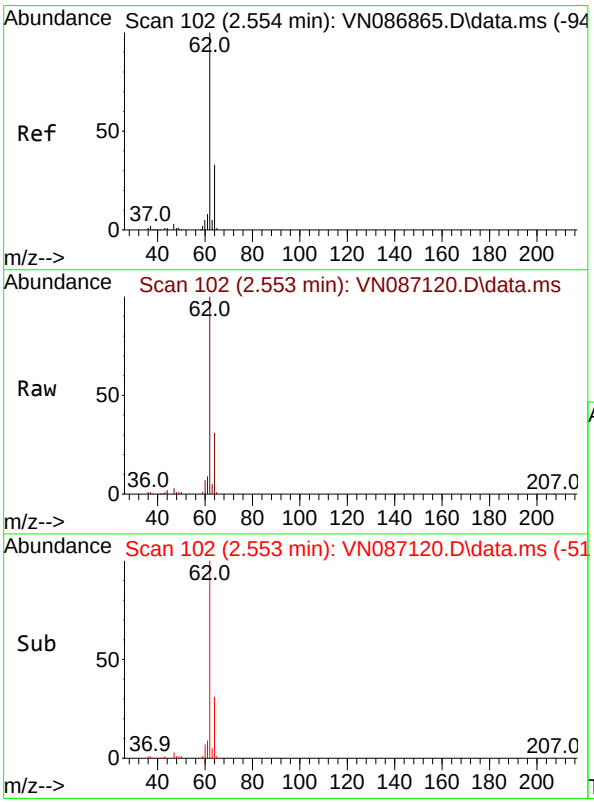
#3
Chloromethane
Concen: 40.850 ug/l
RT: 2.395 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 50 Resp: 90383

Ion	Ratio	Lower	Upper
50	100		
52	33.8	25.7	38.5

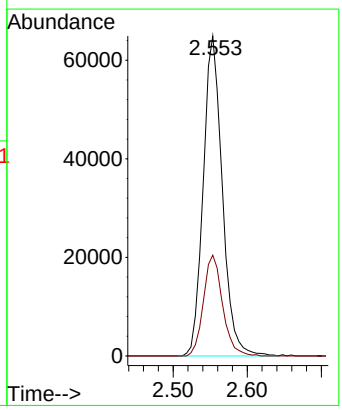


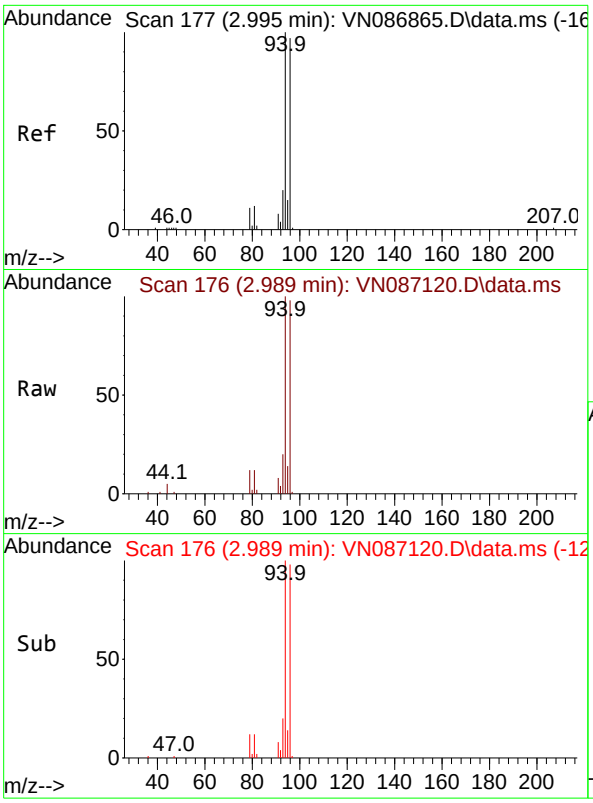


#4
Vinyl Chloride
Concen: 50.937 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 62 Resp: 116257

Ion	Ratio	Lower	Upper
62	100		
64	31.5	26.0	39.0



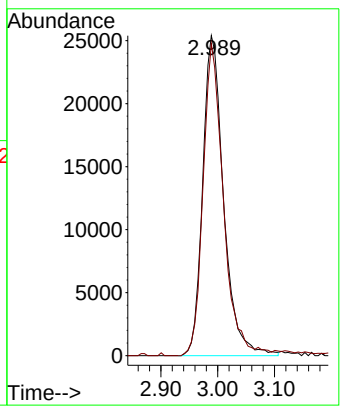


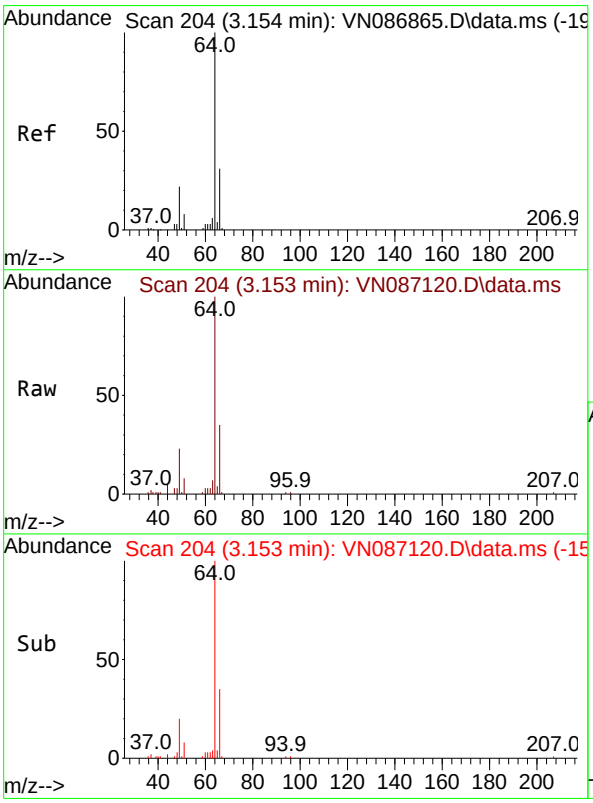
#5
Bromomethane
Concen: 50.735 ug/l
RT: 2.989 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 94 Resp: 64801

Ion	Ratio	Lower	Upper
94	100		
96	97.6	77.9	116.9

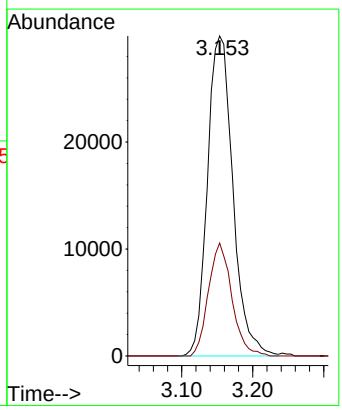


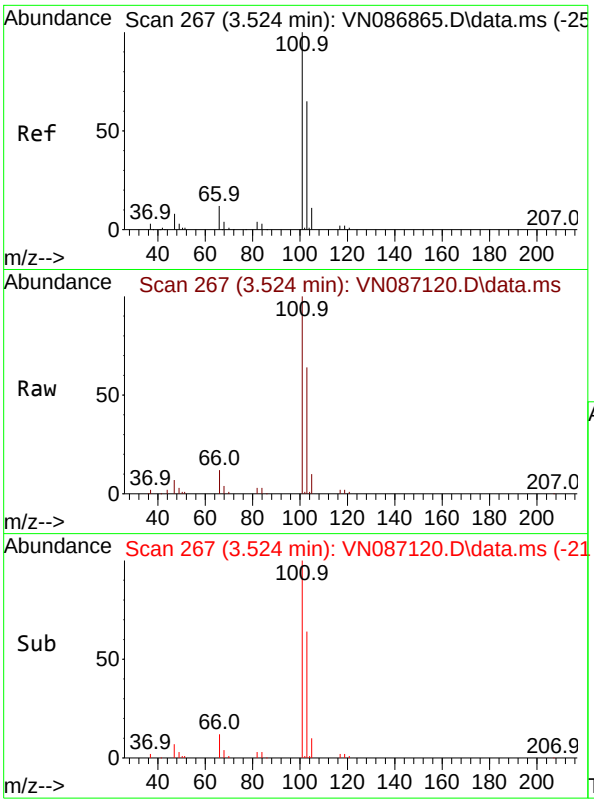


#6
Chloroethane
Concen: 50.428 ug/l
RT: 3.153 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 64 Resp: 74345

Ion	Ratio	Lower	Upper
64	100		
66	35.3	24.6	36.8



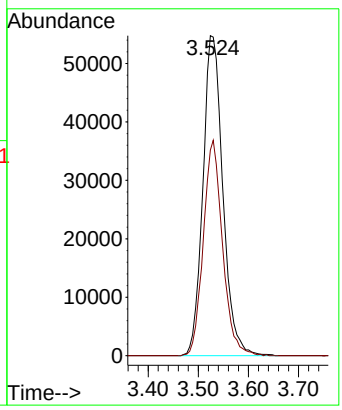


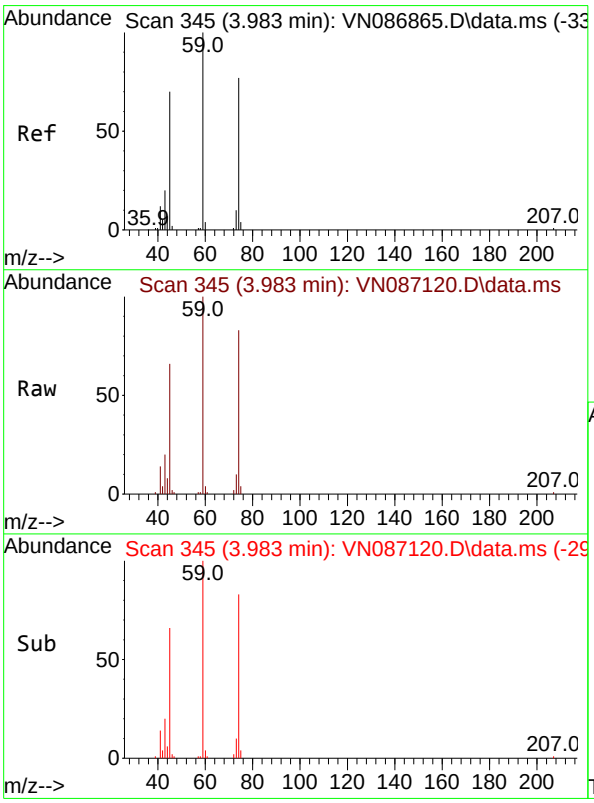
#7
Trichlorofluoromethane
Concen: 50.839 ug/l
RT: 3.524 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 151601

Ion	Ratio	Lower	Upper
101	100		
103	64.3	52.2	78.2

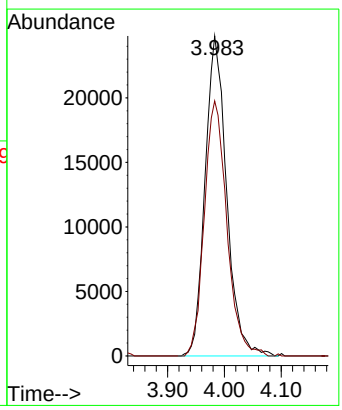


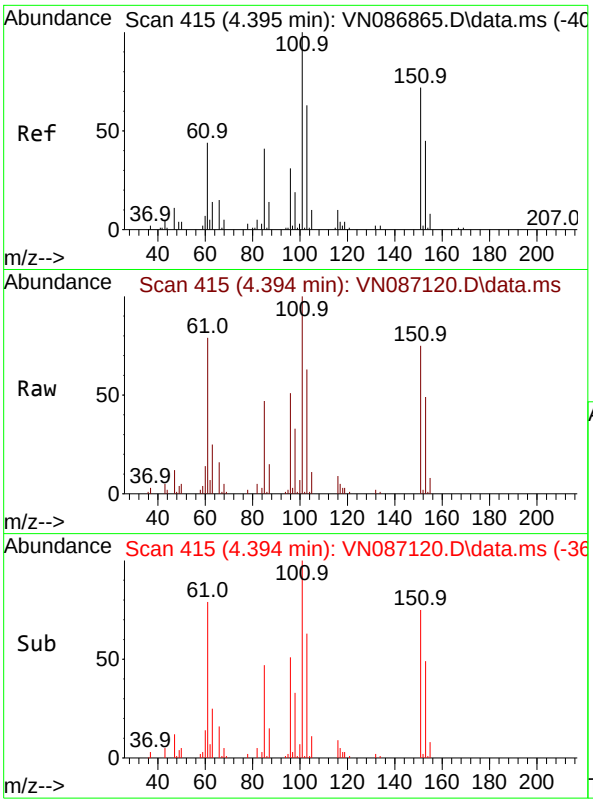


#8
Diethyl Ether
Concen: 50.093 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 74 Resp: 65083

Ion	Ratio	Lower	Upper
74	100		
45	83.6	45.5	136.5



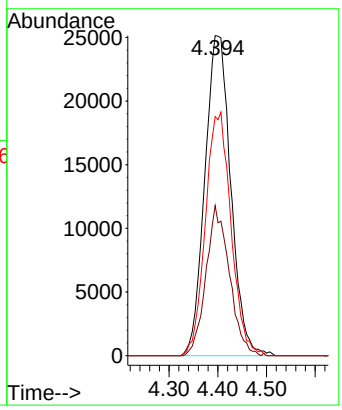


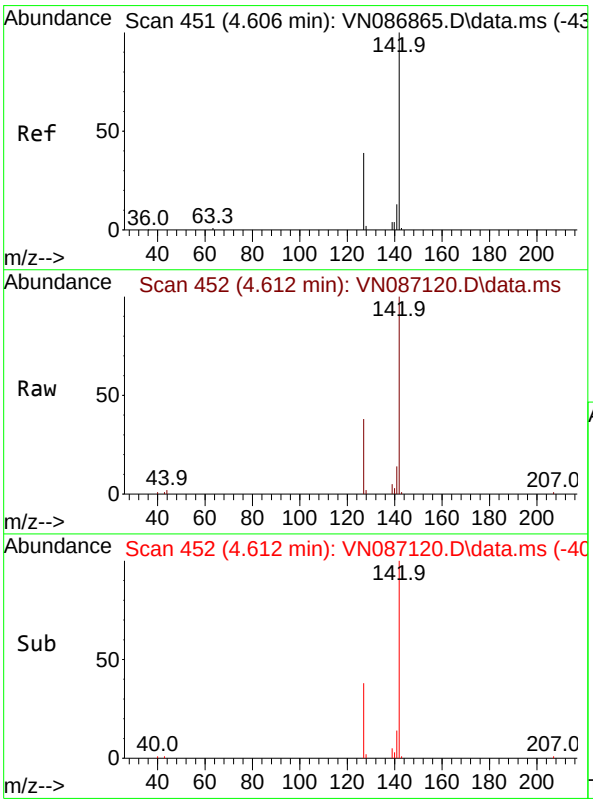
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.660 ug/l
RT: 4.394 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:101 Resp: 93038

Ion	Ratio	Lower	Upper
101	100		
85	42.3	33.8	50.8
151	75.0	58.7	88.1

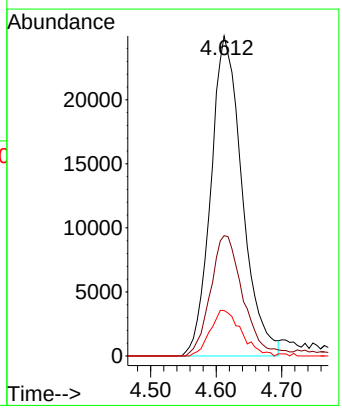


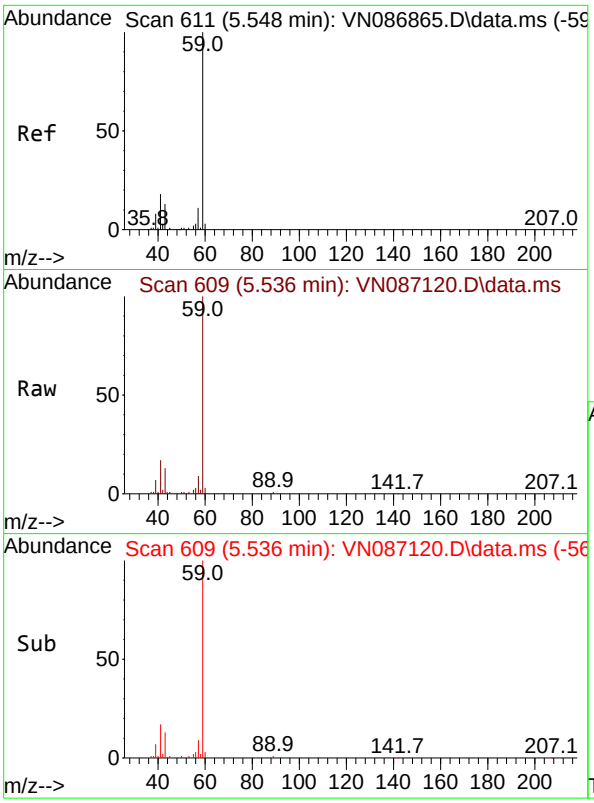


#10
Methyl Iodide
Concen: 34.158 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:142 Resp: 82959

Ion	Ratio	Lower	Upper
142	100		
127	37.6	30.9	46.3
141	14.2	10.4	15.6



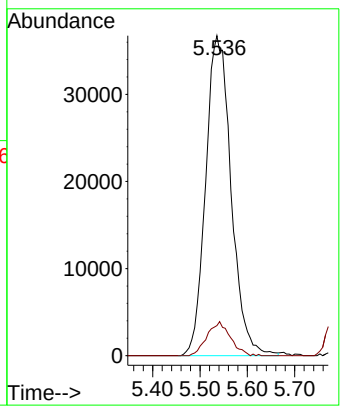


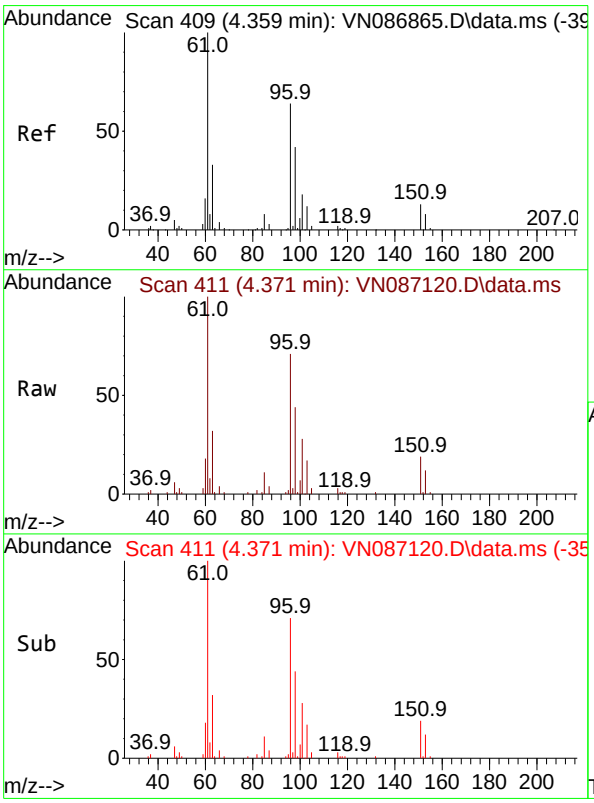
#11
Tert butyl alcohol
Concen: 219.653 ug/l
RT: 5.536 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 59 Resp: 137131

Ion	Ratio	Lower	Upper
59	100		
57	9.7	8.1	12.1

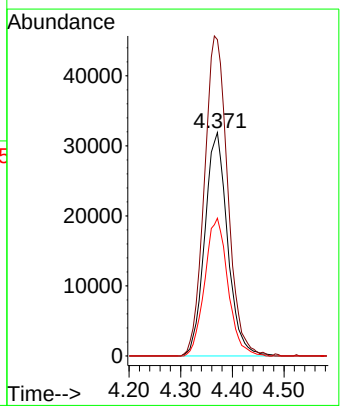


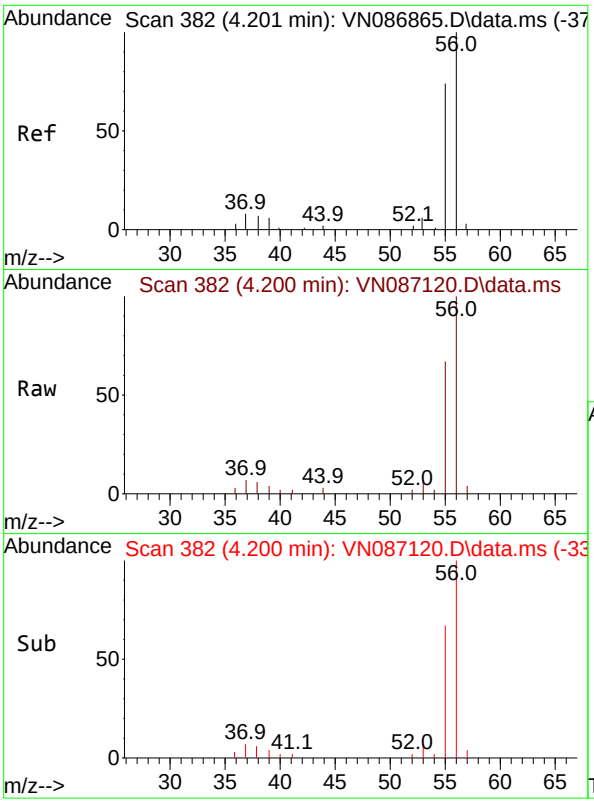


#12
1,1-Dichloroethene
Concen: 51.014 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 96 Resp: 97574

Ion	Ratio	Lower	Upper
96	100		
61	141.5	125.8	188.6
98	61.6	52.5	78.7



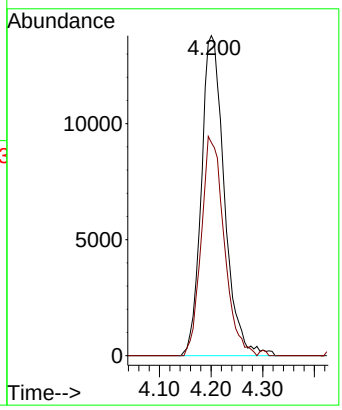


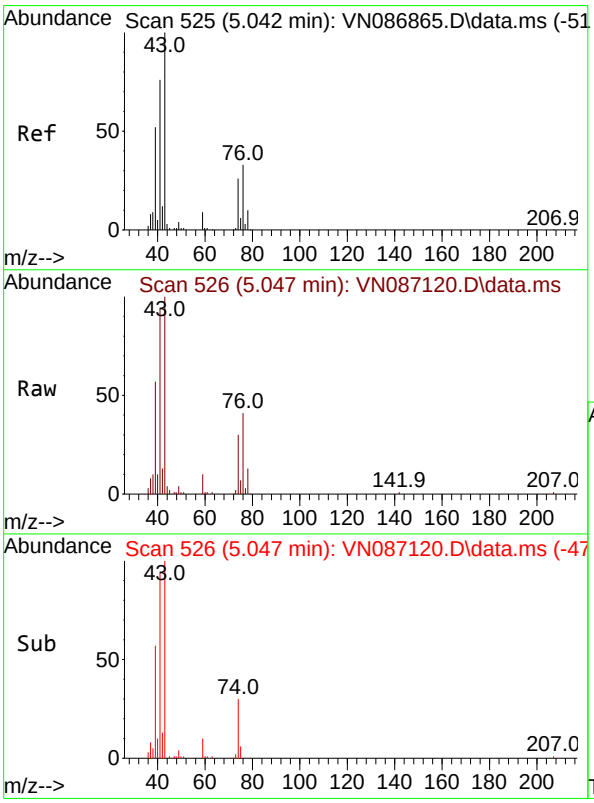
#13
Acrolein
Concen: 215.834 ug/l
RT: 4.200 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 42652

Ion	Ratio	Lower	Upper
56	100		
55	68.0	55.6	83.4

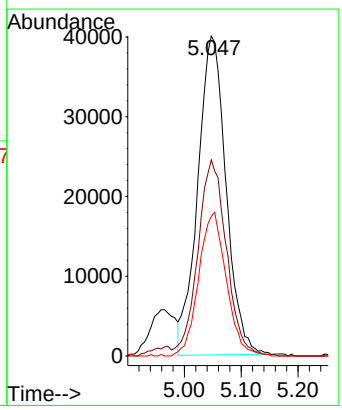


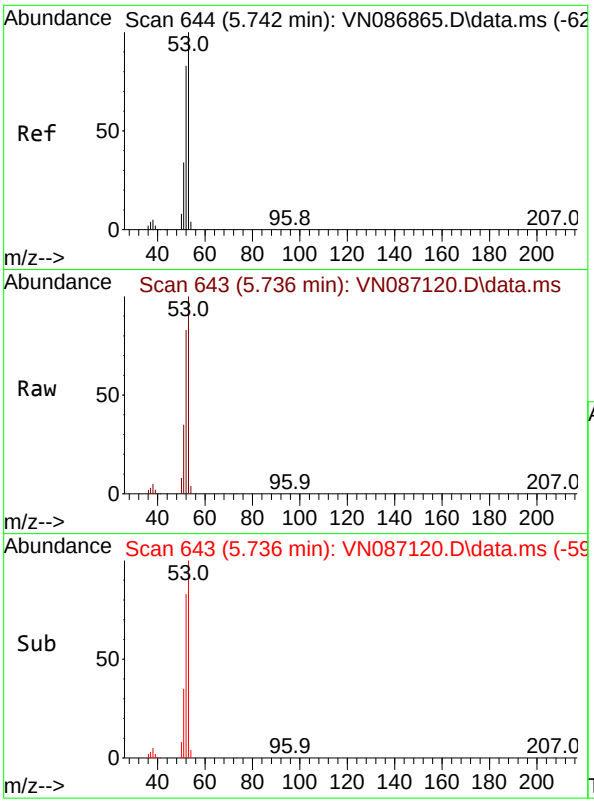


#14
Allyl chloride
Concen: 43.658 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 41 Resp: 138488

Ion	Ratio	Lower	Upper
41	100		
39	62.3	51.3	76.9
76	44.0	31.4	47.0



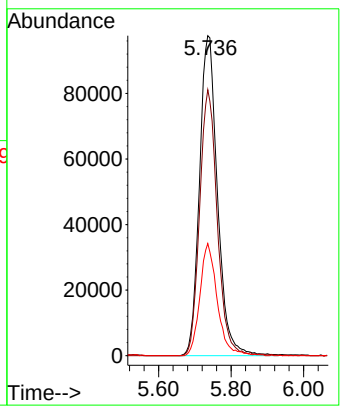


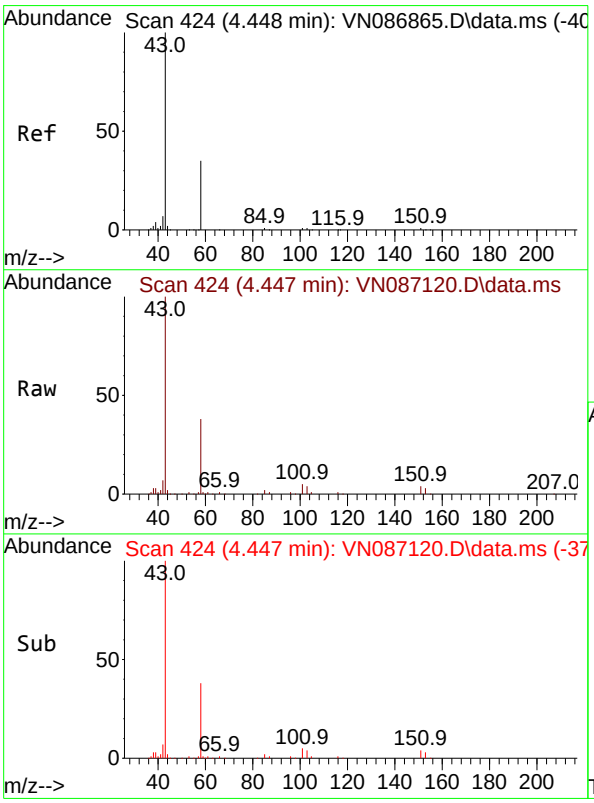
#15
Acrylonitrile
Concen: 230.809 ug/l
RT: 5.736 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 53 Resp: 336803

Ion	Ratio	Lower	Upper
53	100		
52	80.9	65.0	97.6
51	33.7	27.2	40.8

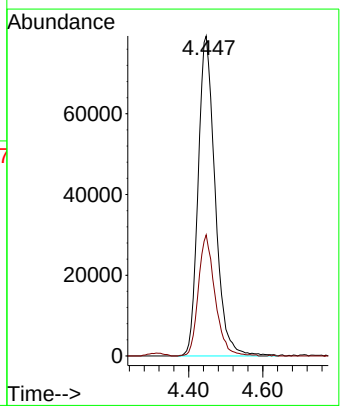


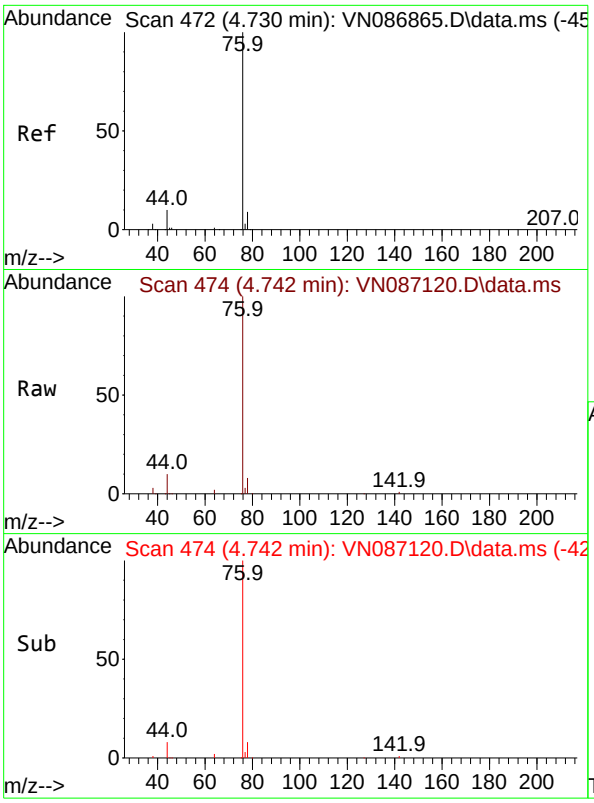


#16
Acetone
Concen: 206.505 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 43 Resp: 251966

Ion	Ratio	Lower	Upper
43	100		
58	37.9	28.0	42.0



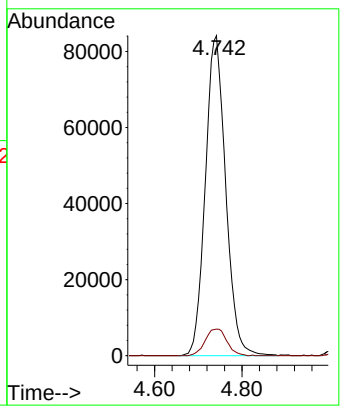


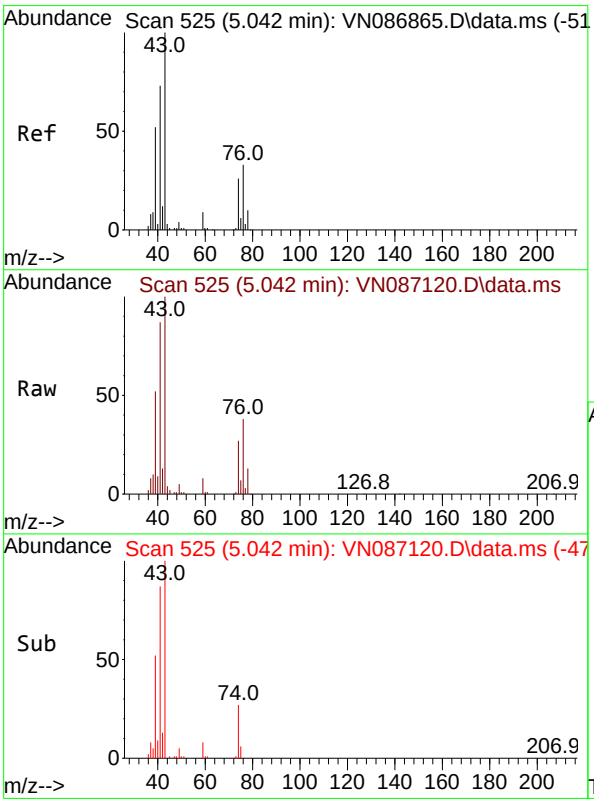
#17
Carbon Disulfide
Concen: 51.448 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.012 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 272197

Ion	Ratio	Lower	Upper
76	100		
78	8.3	7.3	10.9

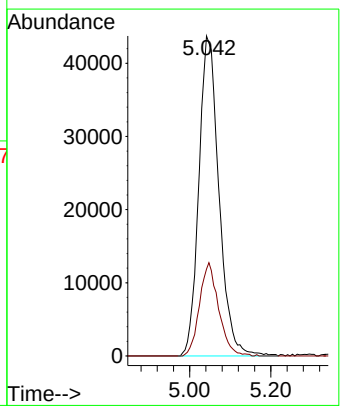


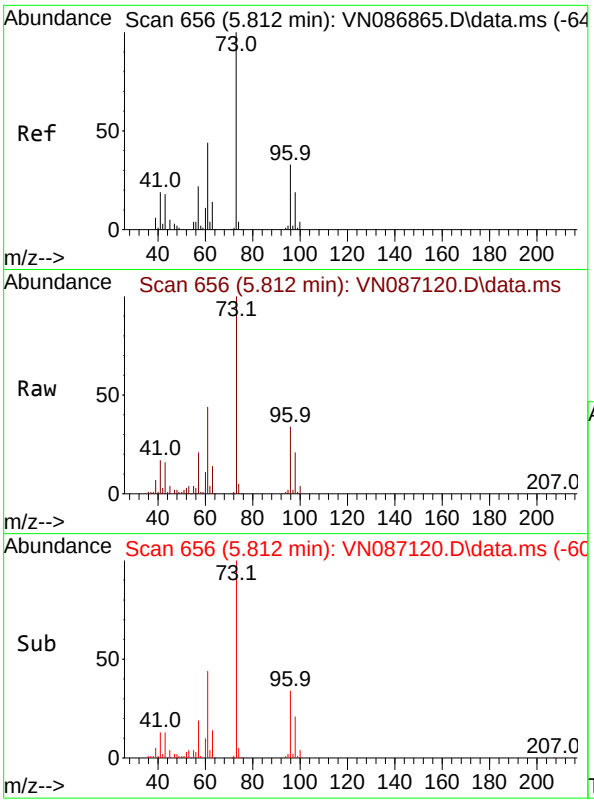


#18
Methyl Acetate
Concen: 42.374 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 43 Resp: 150668

Ion	Ratio	Lower	Upper
43	100		
74	27.7	20.7	31.1



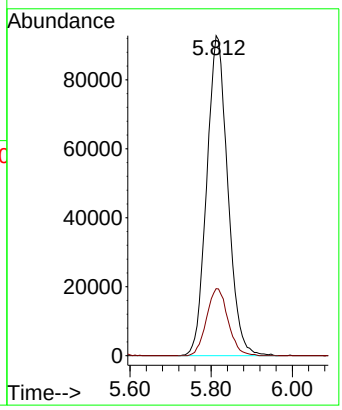


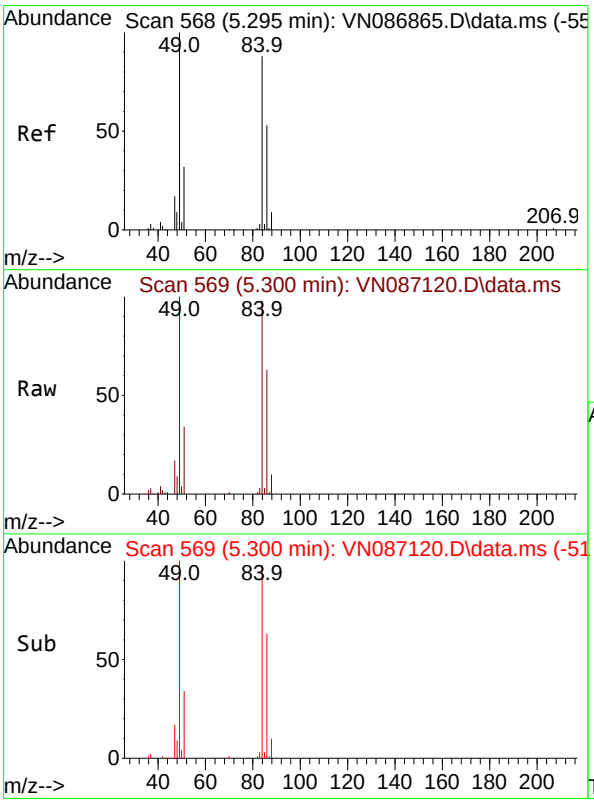
#19
Methyl tert-butyl Ether
Concen: 48.211 ug/l
RT: 5.812 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 73 Resp: 333883

Ion	Ratio	Lower	Upper
73	100		
57	20.9	17.4	26.2

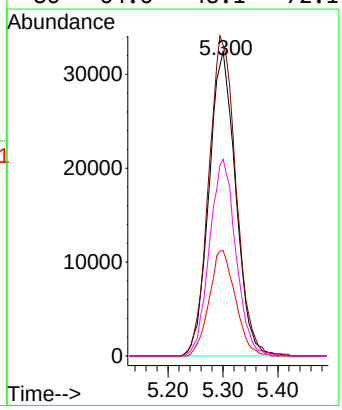


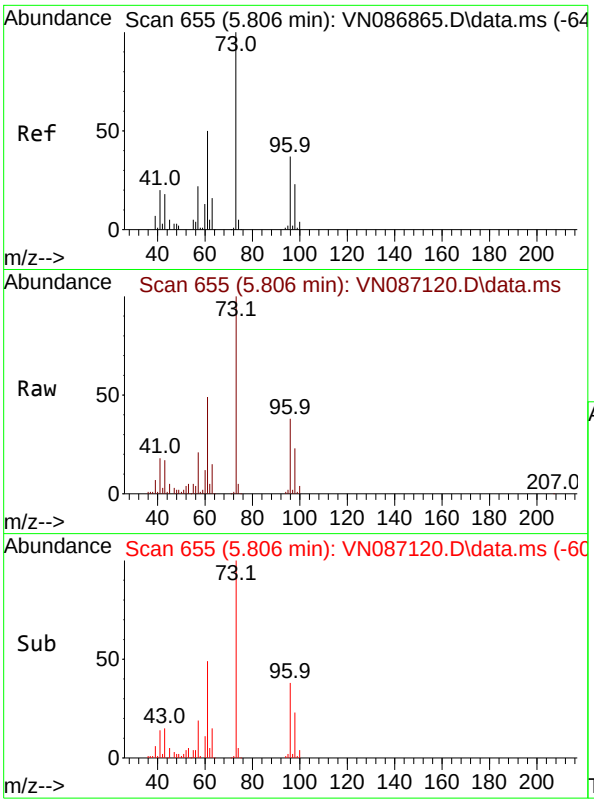


#20
Methylene Chloride
Concen: 47.740 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 84 Resp: 109053

Ion	Ratio	Lower	Upper
84	100		
49	102.0	90.5	135.7
51	34.6	28.5	42.7
86	64.6	48.1	72.1



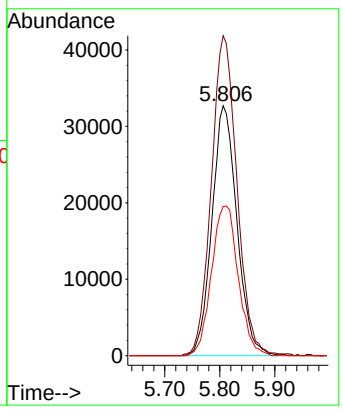


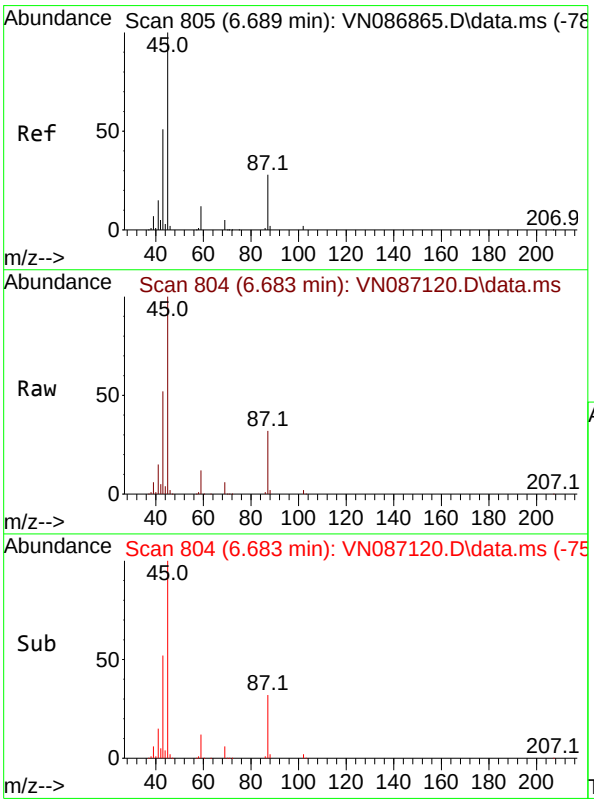
#21
trans-1,2-Dichloroethene
Concen: 48.679 ug/l
RT: 5.806 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 103590

Ion	Ratio	Lower	Upper
96	100		
61	128.0	109.2	163.8
98	59.7	49.8	74.8

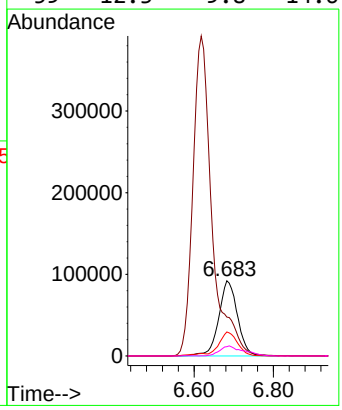


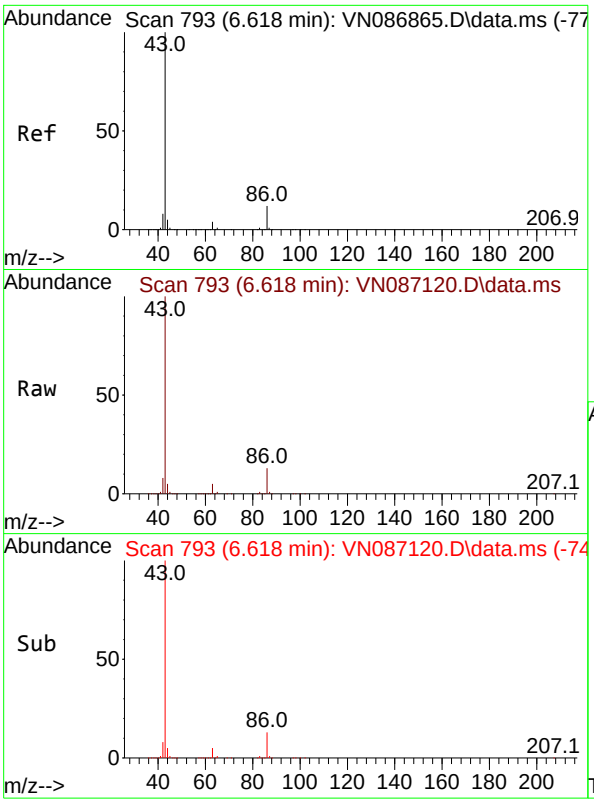


#22
Diisopropyl ether
Concen: 45.170 ug/l
RT: 6.683 min Scan# 804
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 45 Resp: 302028

Ion	Ratio	Lower	Upper
45	100		
43	51.3	41.9	62.9
87	31.8	22.4	33.6
59	12.3	9.8	14.6



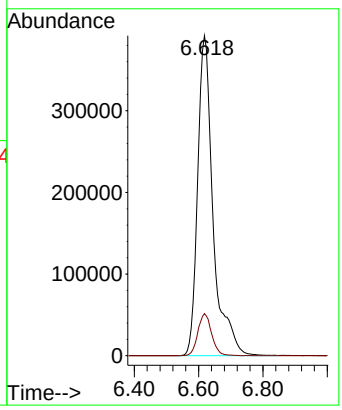


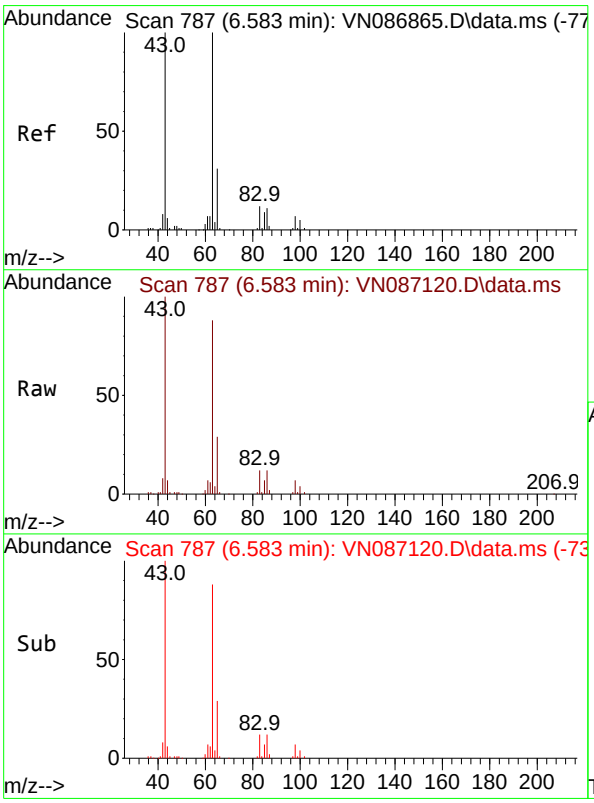
#23
Vinyl Acetate
Concen: 231.557 ug/l
RT: 6.618 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 1308153

Ion	Ratio	Lower	Upper
43	100		
86	13.1	9.5	14.3

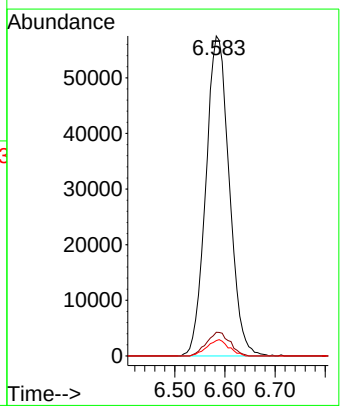


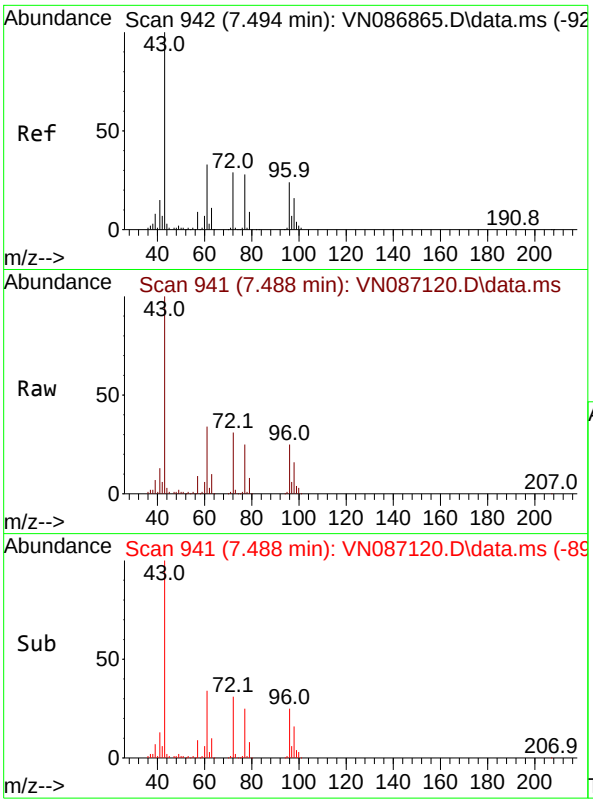


#24
1,1-Dichloroethane
Concen: 48.418 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 63 Resp: 186312

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.6	10.8
100	4.8	2.6	7.8



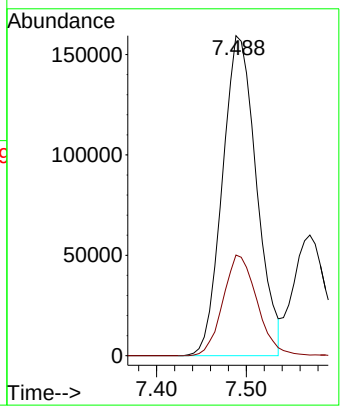


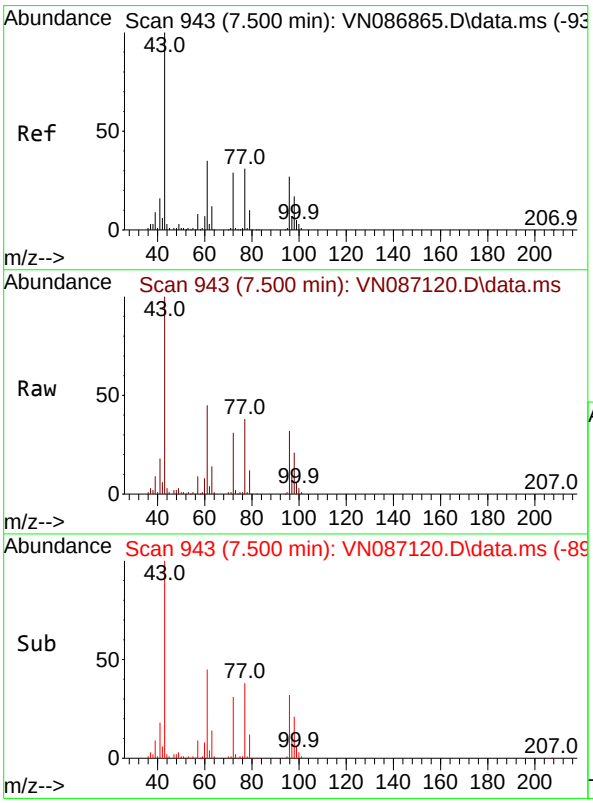
#25
2-Butanone
Concen: 212.049 ug/l
RT: 7.488 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 420559

Ion	Ratio	Lower	Upper
43	100		
72	31.5	23.0	34.6

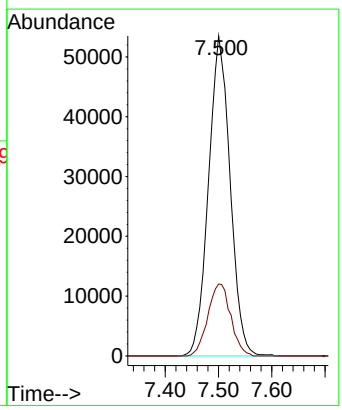


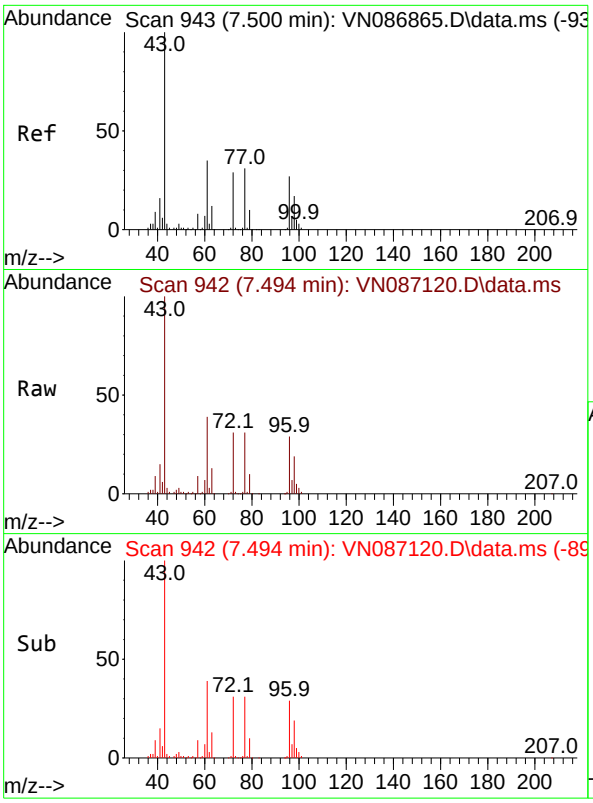


#26
2,2-Dichloropropane
Concen: 50.377 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 77 Resp: 150789

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.6	34.7



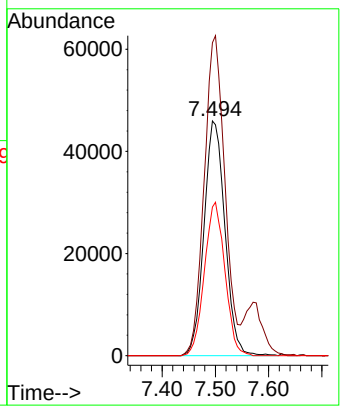


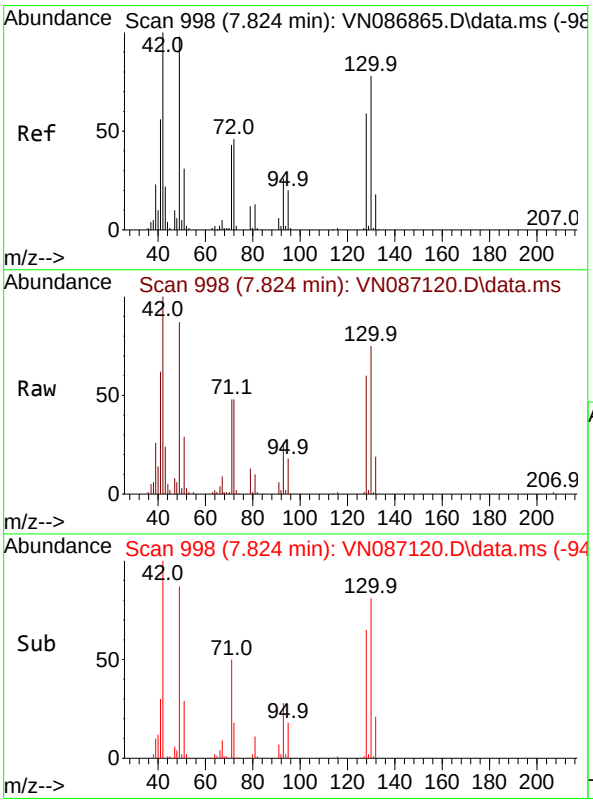
#27
cis-1,2-Dichloroethene
Concen: 49.366 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 96 Resp: 125637

Ion	Ratio	Lower	Upper
96	100		
61	135.2	0.0	278.0
98	63.9	0.0	128.2

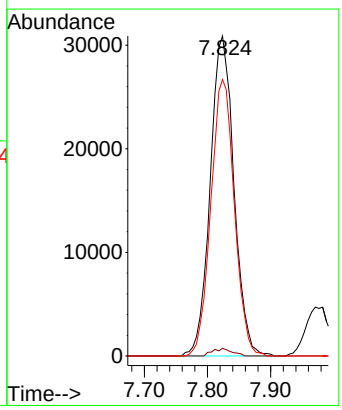


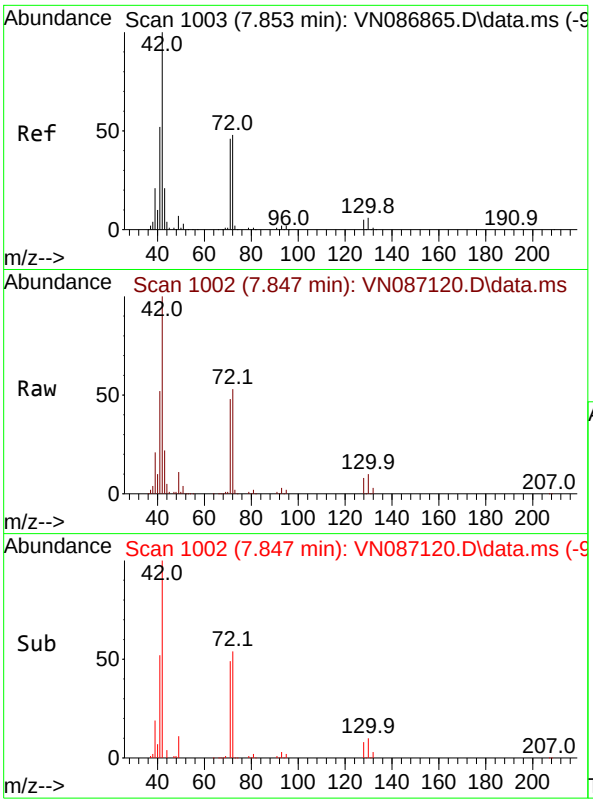


#28
Bromochloromethane
Concen: 42.609 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 49 Resp: 80614

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	85.5	62.2	93.2



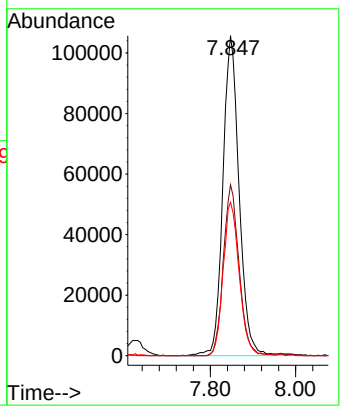


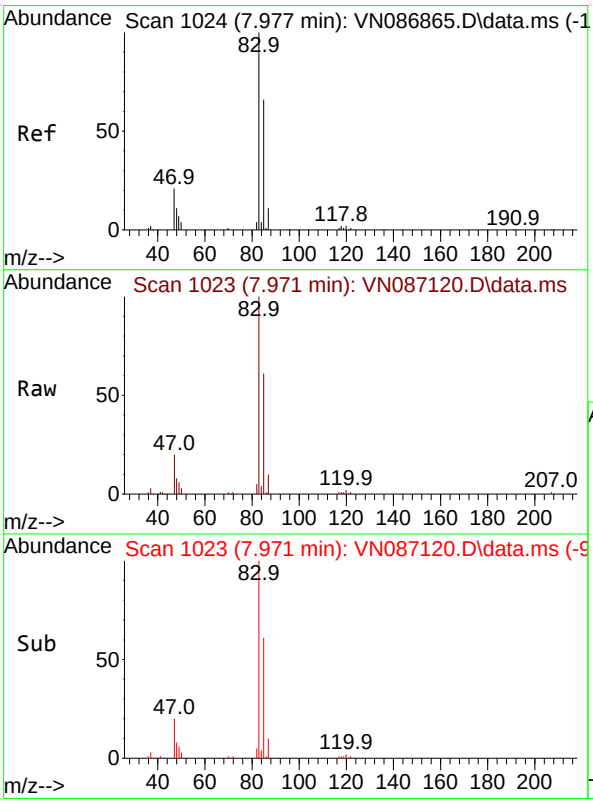
#29
Tetrahydrofuran
Concen: 216.407 ug/l
RT: 7.847 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 42 Resp: 279595

Ion	Ratio	Lower	Upper
42	100		
72	51.7	37.8	56.6
71	47.5	35.6	53.4

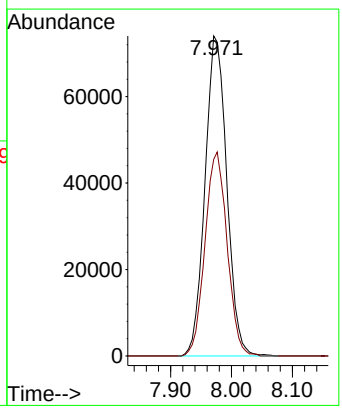


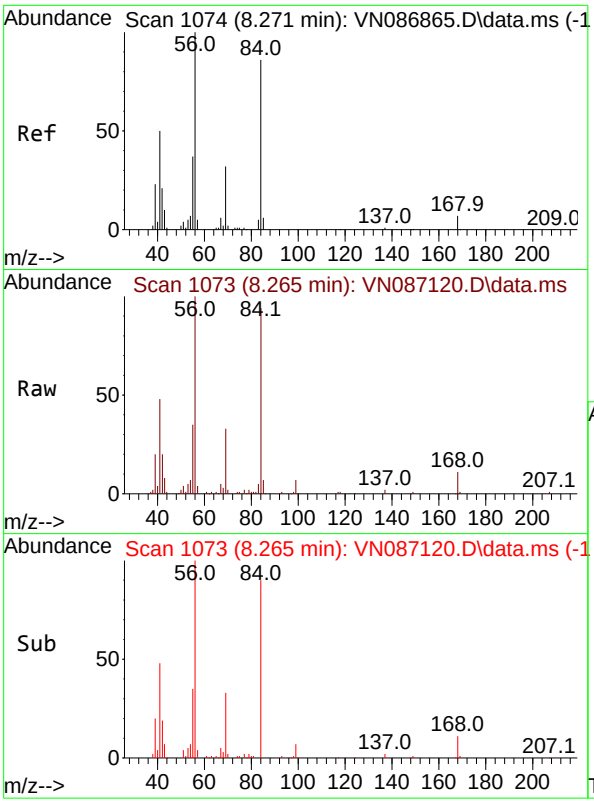


#30
Chloroform
Concen: 47.846 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 83 Resp: 183860

Ion	Ratio	Lower	Upper
83	100		
85	61.5	52.9	79.3



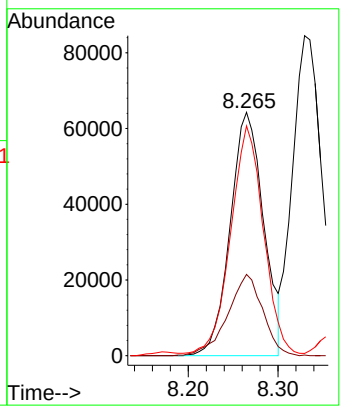


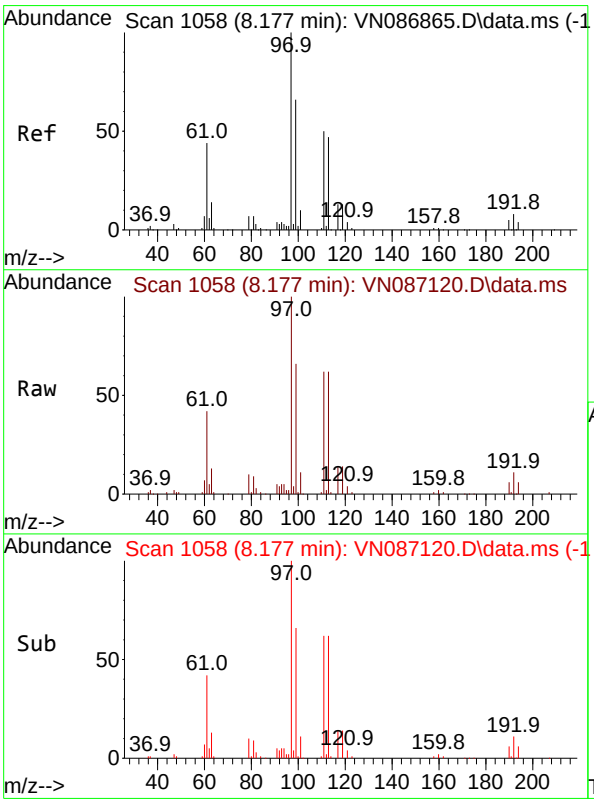
#31
Cyclohexane
Concen: 44.593 ug/l
RT: 8.265 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 56 Resp: 166407

Ion	Ratio	Lower	Upper
56	100		
69	33.1	25.4	38.0
84	93.4	68.8	103.2

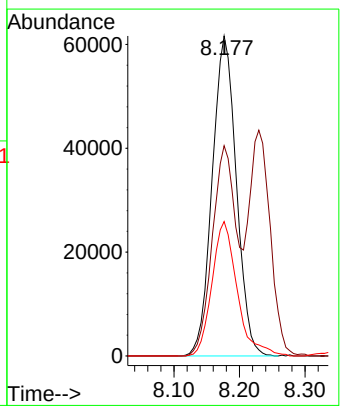


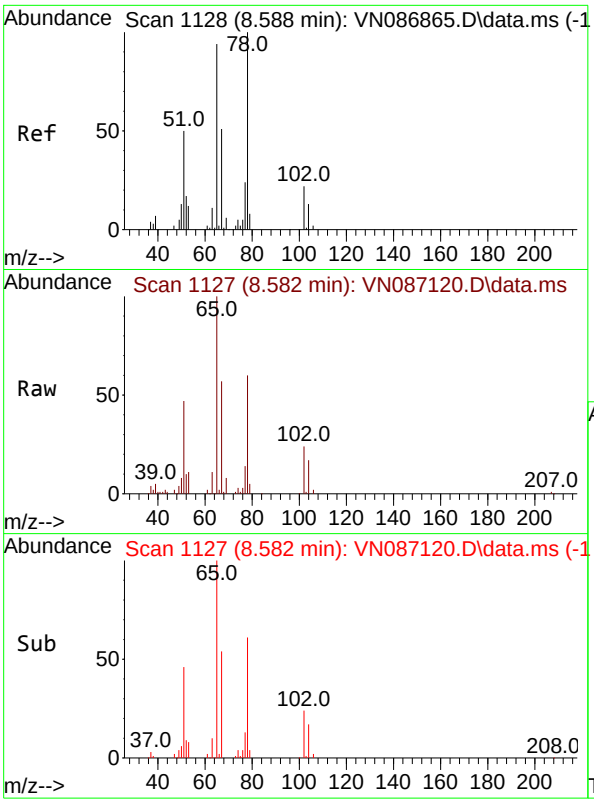


#32
1,1,1-Trichloroethane
Concen: 48.143 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 97 Resp: 157349

Ion	Ratio	Lower	Upper
97	100		
99	67.4	52.0	78.0
61	43.9	35.9	53.9



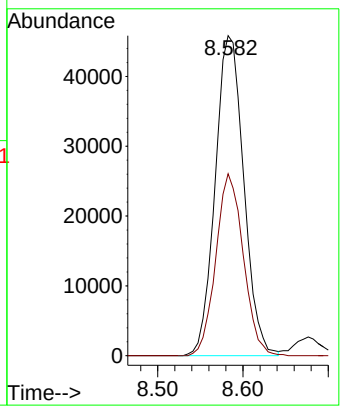


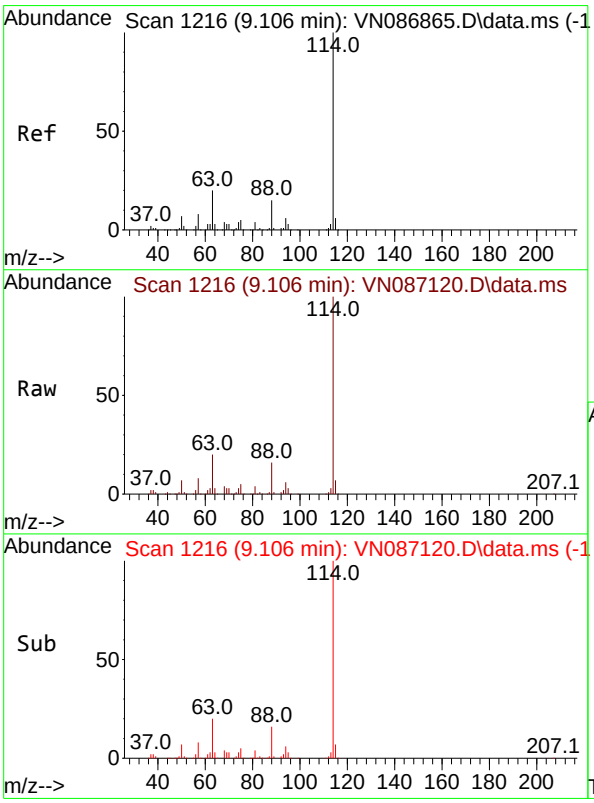
#33
1,2-Dichloroethane-d4
Concen: 46.395 ug/l
RT: 8.582 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 65 Resp: 106748

Ion	Ratio	Lower	Upper
65	100		
67	54.6	0.0	105.6

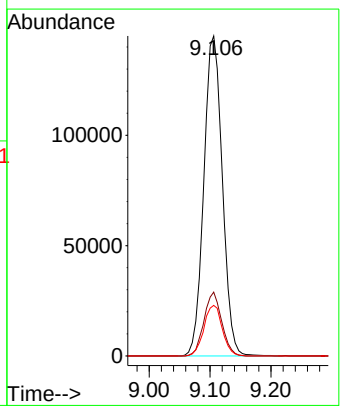


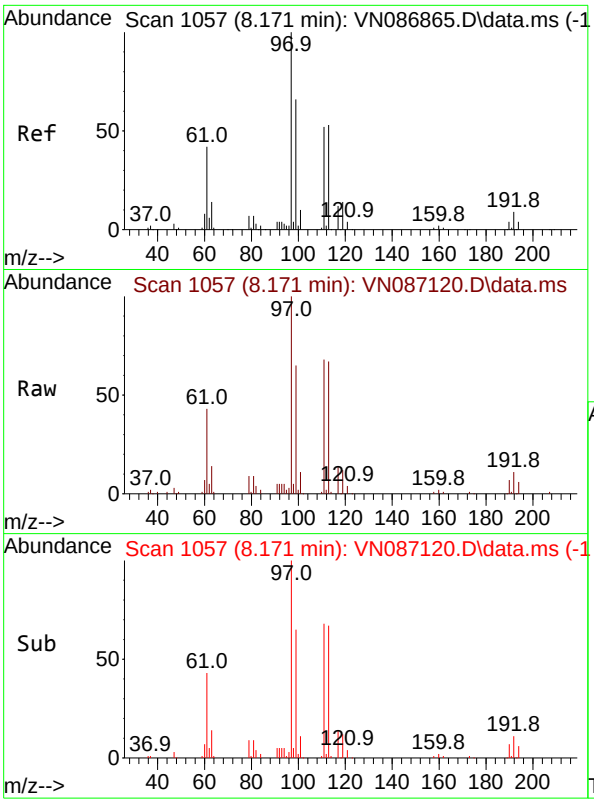


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:114 Resp: 306033

Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.6
88	15.8	0.0	30.2



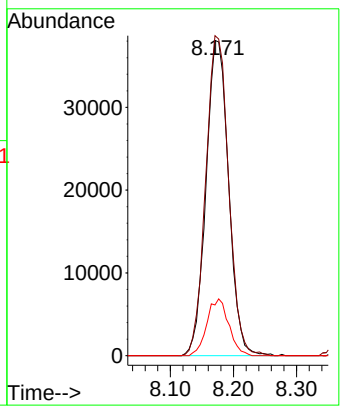


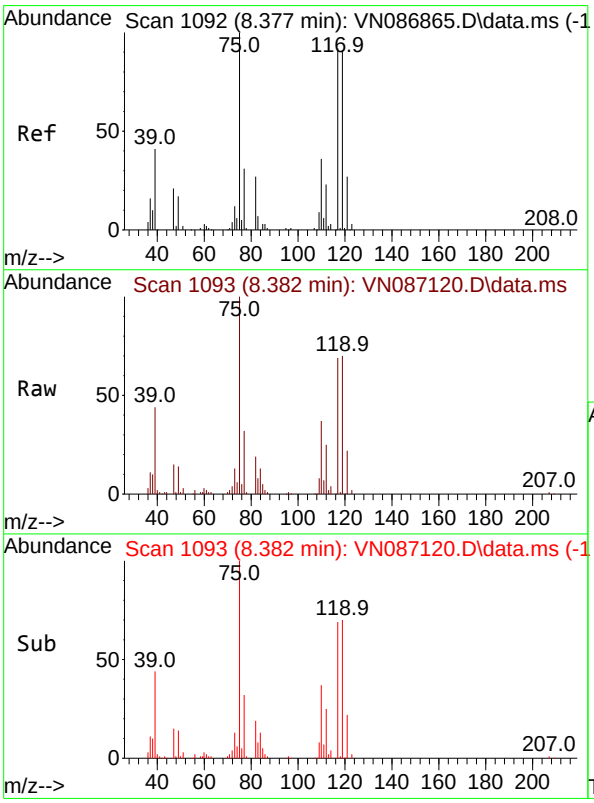
#35
Dibromofluoromethane
Concen: 52.186 ug/l
RT: 8.171 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:113 Resp: 94646

Ion	Ratio	Lower	Upper
113	100		
111	102.9	84.2	126.2
192	17.5	14.2	21.4

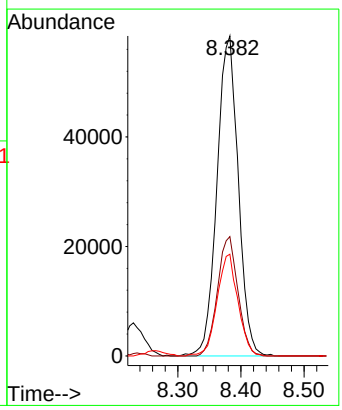


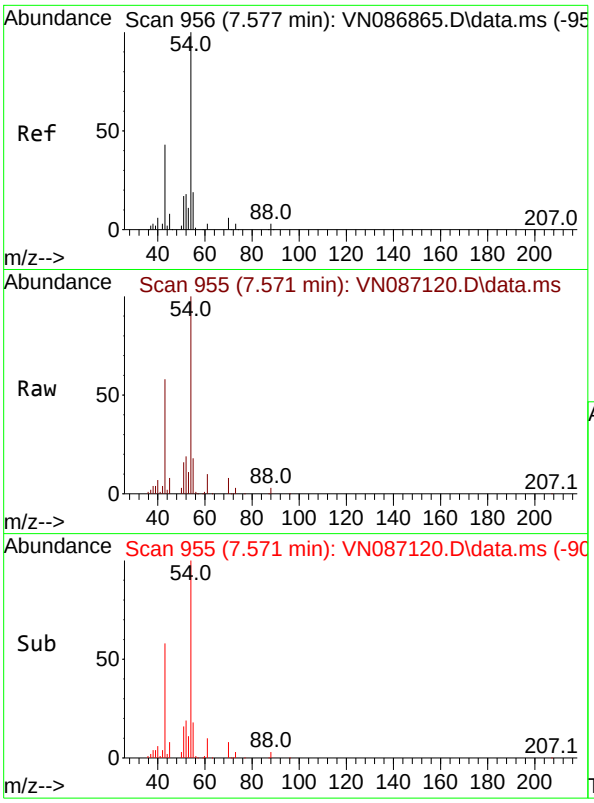


#36
1,1-Dichloropropene
Concen: 50.694 ug/l
RT: 8.382 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 75 Resp: 137000

Ion	Ratio	Lower	Upper
75	100		
110	36.0	17.6	52.9
77	31.1	25.3	37.9



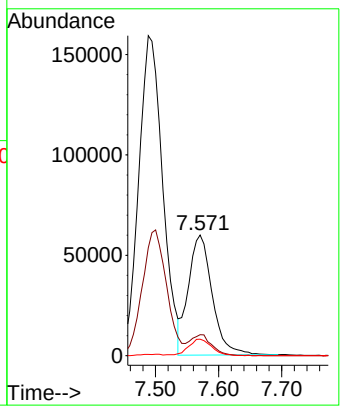


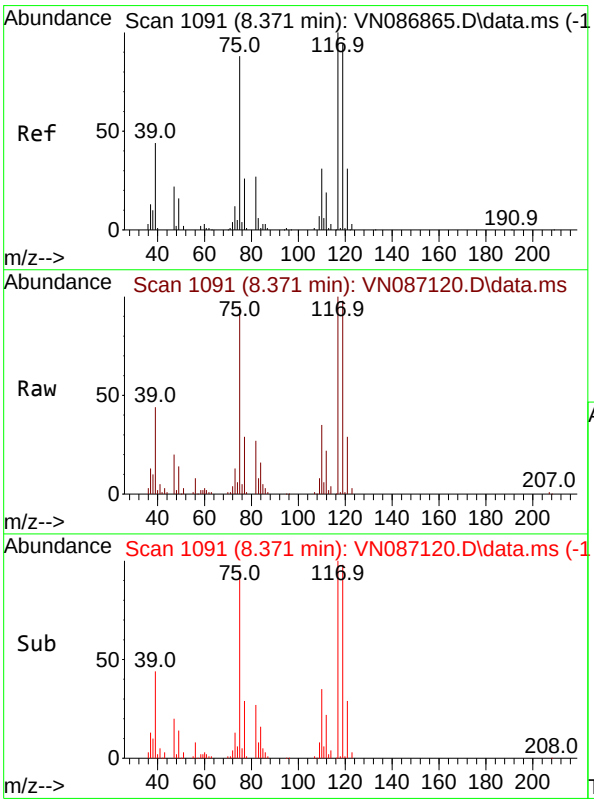
#37
Ethyl Acetate
Concen: 45.793 ug/l
RT: 7.571 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 157538

Ion	Ratio	Lower	Upper
43	100		
61	15.5	12.1	18.1
70	13.4	9.8	14.6

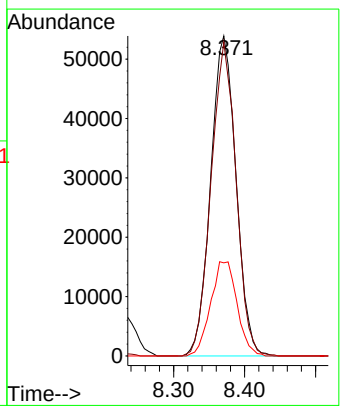


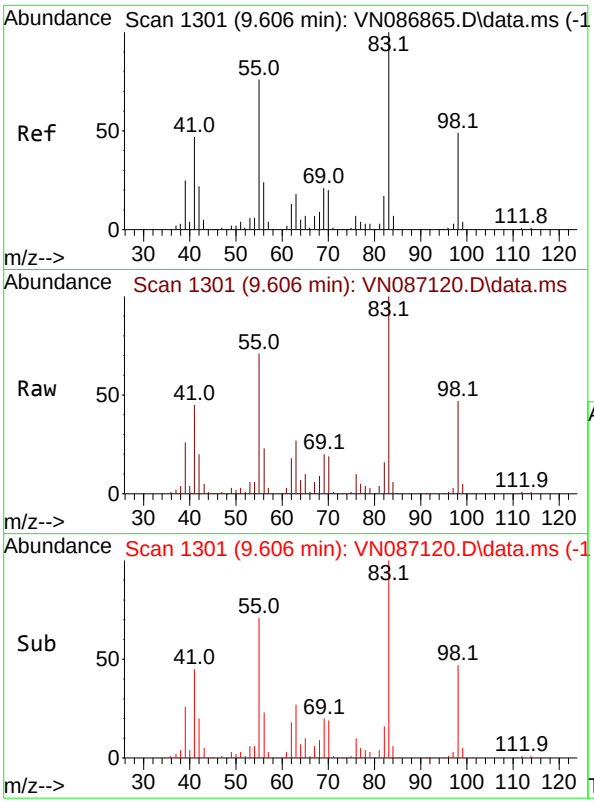


#38
Carbon Tetrachloride
Concen: 50.312 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:117 Resp: 133489

Ion	Ratio	Lower	Upper
117	100		
119	98.0	75.0	112.6
121	29.1	24.9	37.3



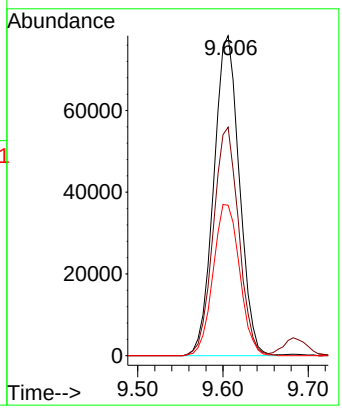


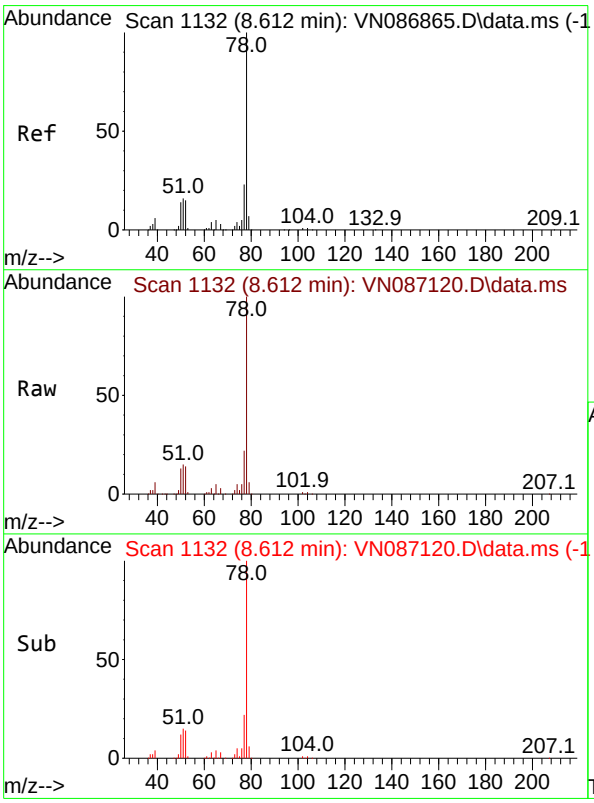
#39
Methylcyclohexane
Concen: 44.143 ug/l
RT: 9.606 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 163439

Ion	Ratio	Lower	Upper
83	100		
55	71.4	61.0	91.6
98	47.0	38.9	58.3

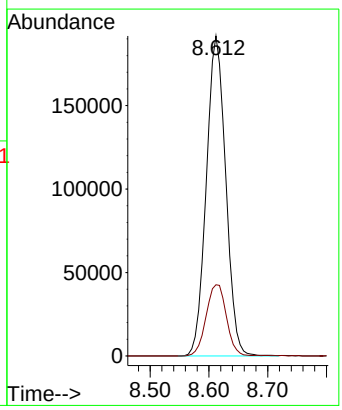


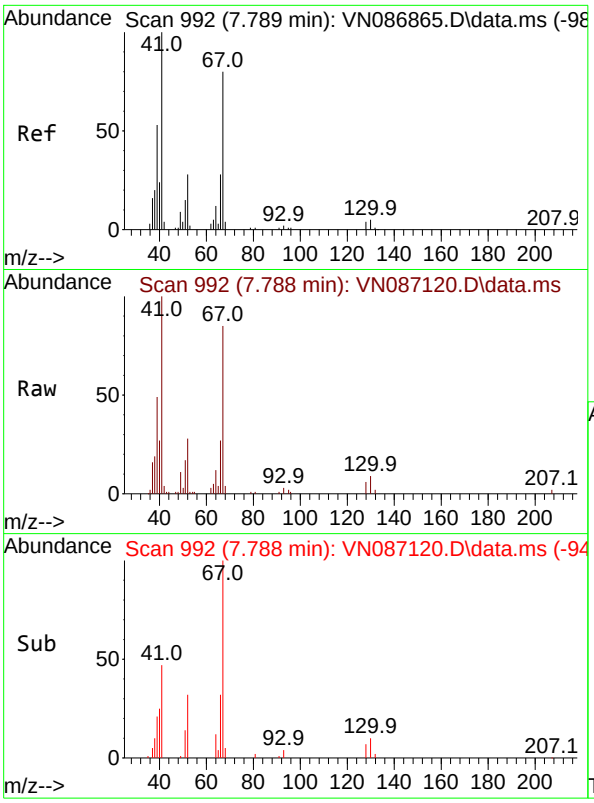


#40
Benzene
Concen: 49.733 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 78 Resp: 439499

Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.7	28.1



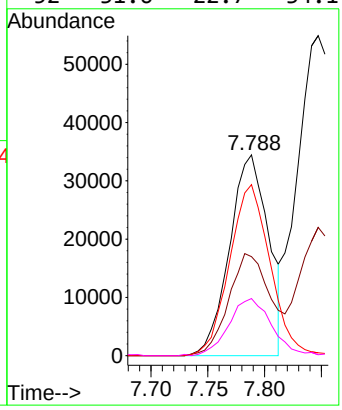


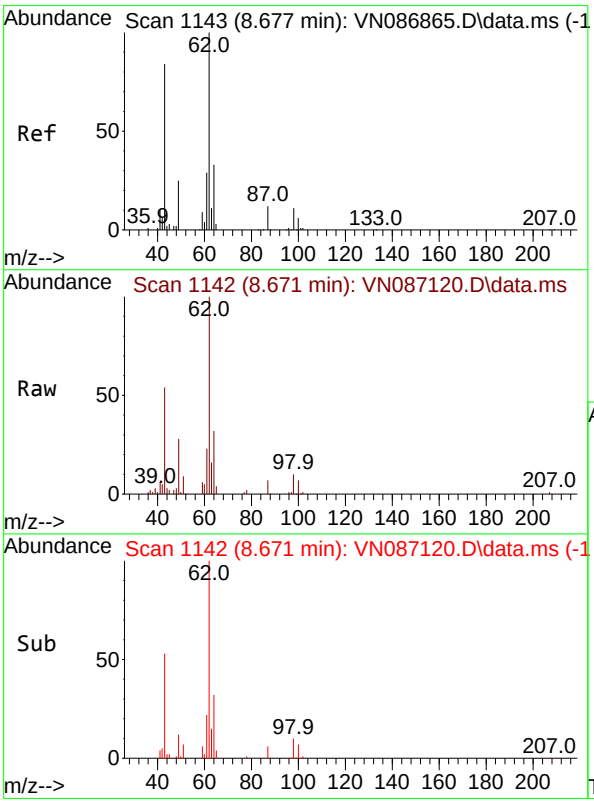
#41
Methacrylonitrile
Concen: 42.608 ug/l
RT: 7.788 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 41 Resp: 82321

Ion	Ratio	Lower	Upper
41	100		
39	55.1	41.2	61.8
67	89.0	61.4	92.2
52	31.6	22.7	34.1

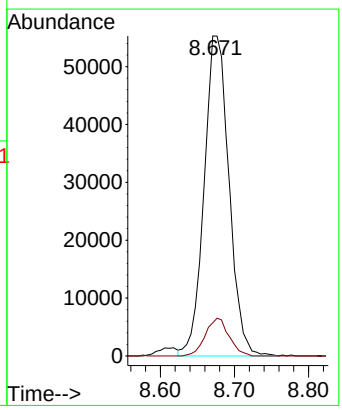


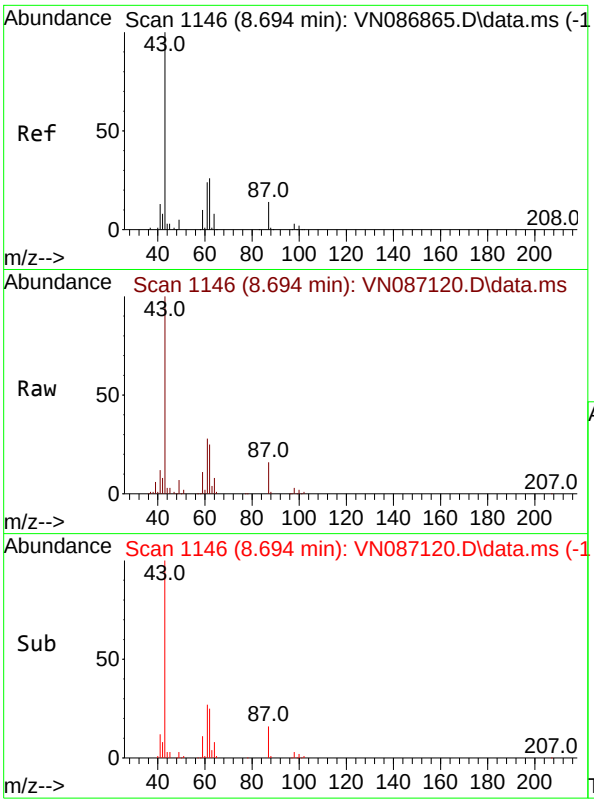


#42
1,2-Dichloroethane
Concen: 48.141 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 62 Resp: 129038

Ion	Ratio	Lower	Upper
62	100		
98	11.2	0.0	21.2



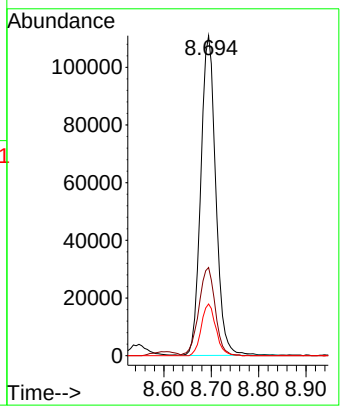


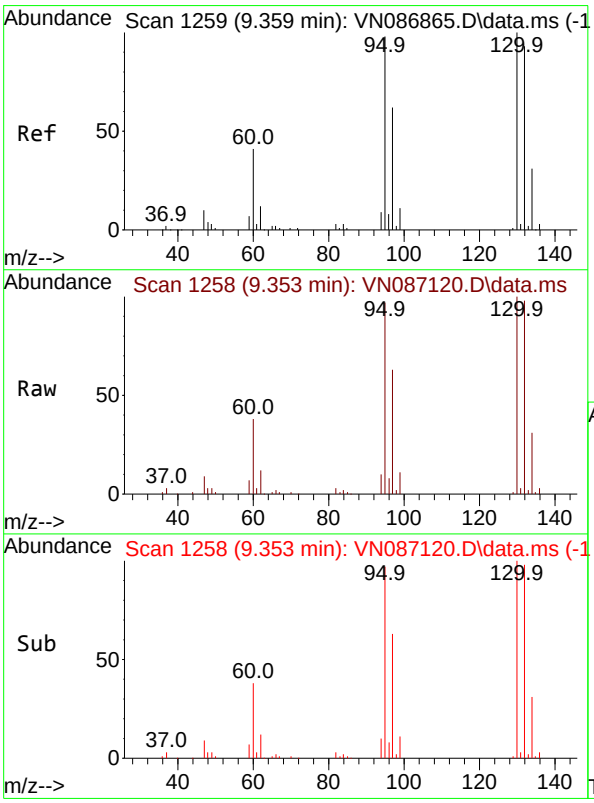
#43
Isopropyl Acetate
Concen: 44.098 ug/l
RT: 8.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 243496

Ion	Ratio	Lower	Upper
43	100		
61	30.2	22.1	33.1
87	15.8	11.8	17.6

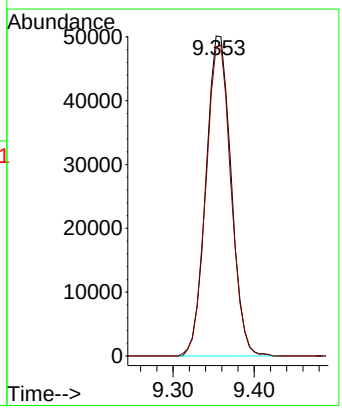


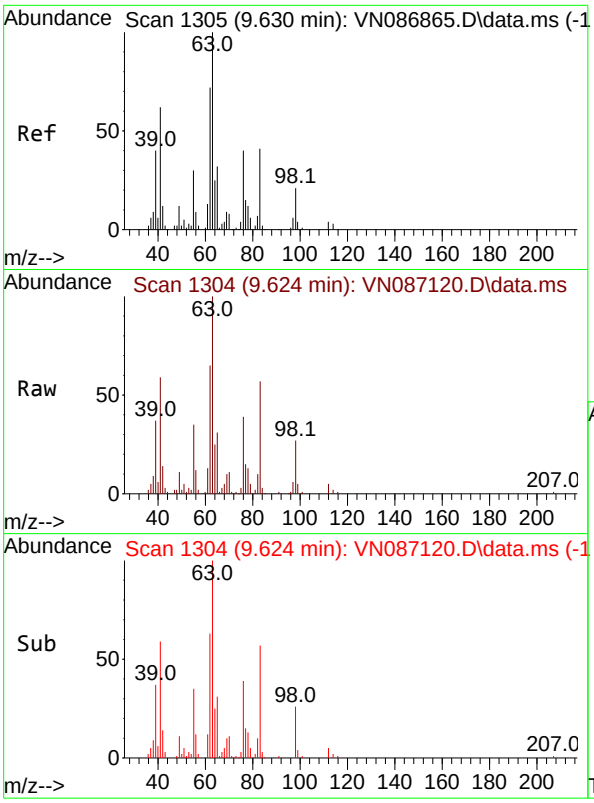


#44
Trichloroethene
Concen: 51.338 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:130 Resp: 107576

Ion	Ratio	Lower	Upper
130	100		
95	96.6	0.0	196.2



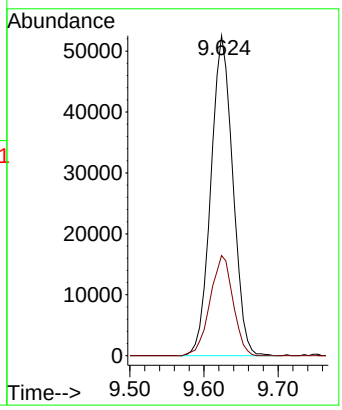


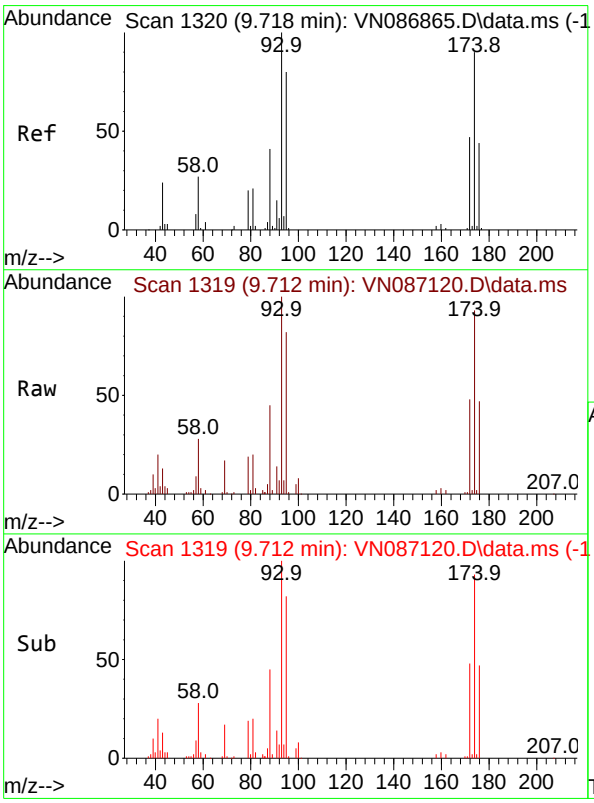
#45
1,2-Dichloropropane
Concen: 50.168 ug/l
RT: 9.624 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 63 Resp: 107860

Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.5	38.3

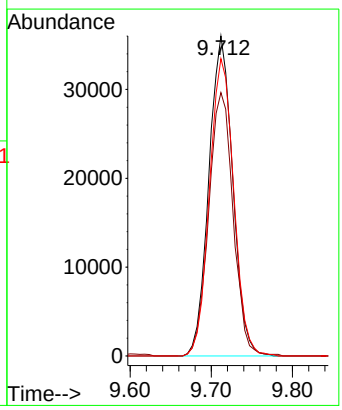


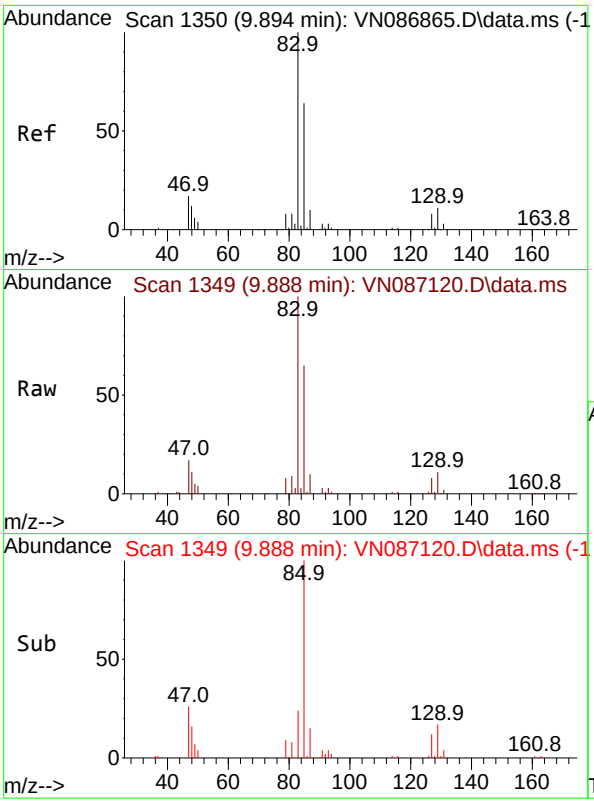


#46
Dibromomethane
Concen: 51.439 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 93 Resp: 73457

Ion	Ratio	Lower	Upper
93	100		
95	84.5	67.1	100.7
174	94.8	74.2	111.4



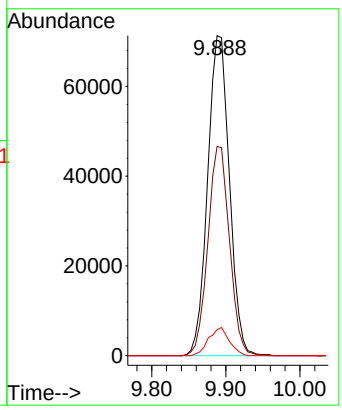


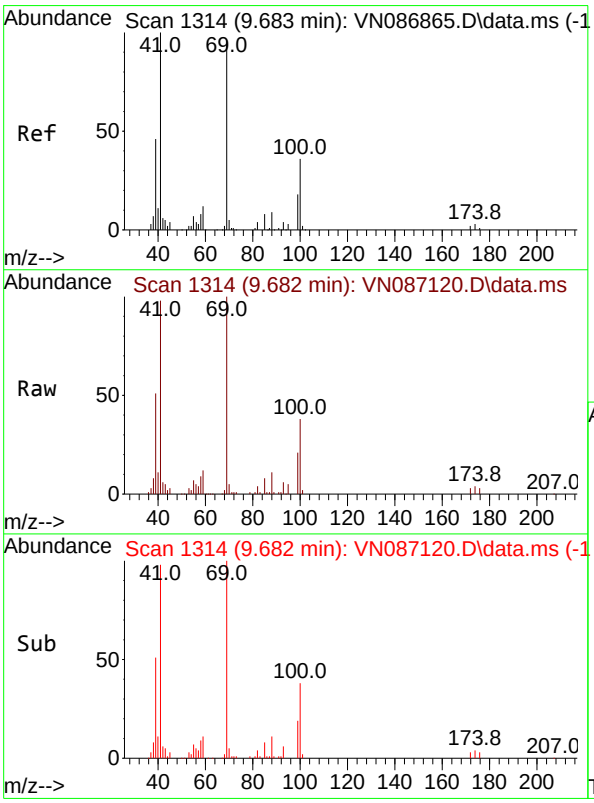
#47
Bromodichloromethane
Concen: 49.542 ug/l
RT: 9.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 145562

Ion	Ratio	Lower	Upper
83	100		
85	65.4	50.9	76.3
127	8.1	6.6	10.0

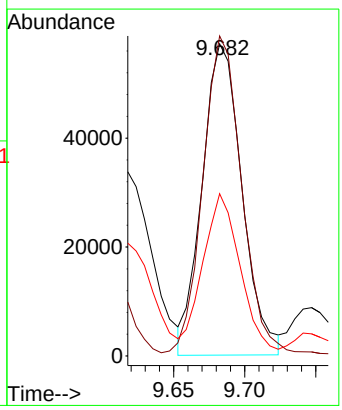


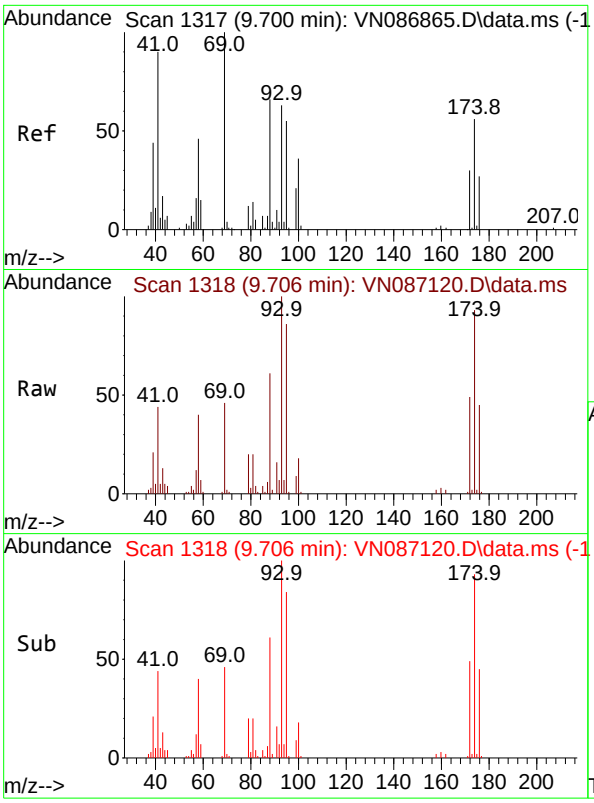


#48
Methyl methacrylate
Concen: 43.897 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 41 Resp: 111561

Ion	Ratio	Lower	Upper
41	100		
69	100.7	74.6	112.0
39	49.9	40.2	60.4



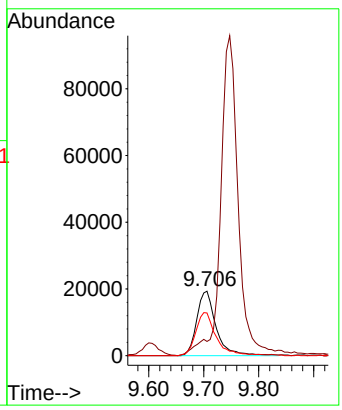


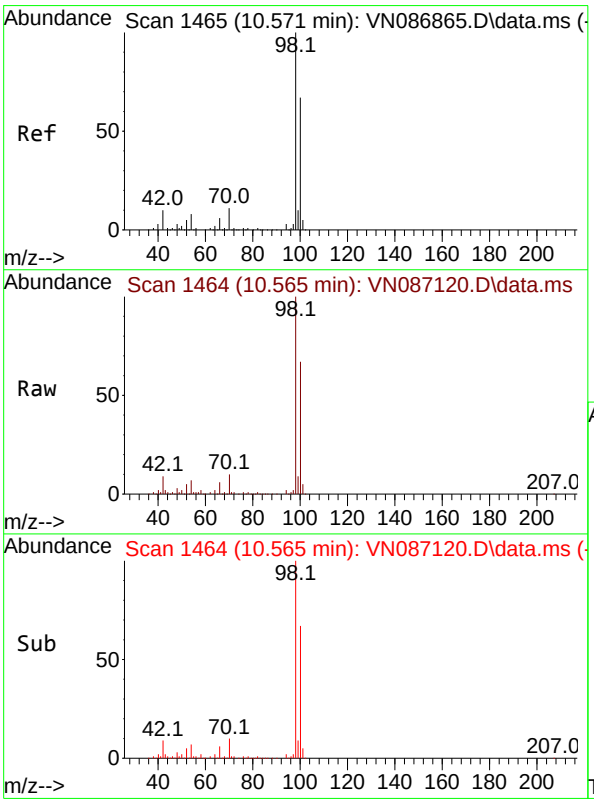
#49
1,4-Dioxane
Concen: 1025.069 ug/l
RT: 9.706 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 88 Resp: 47393

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	70.4	57.7	86.5

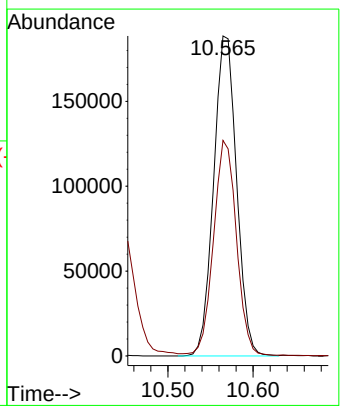


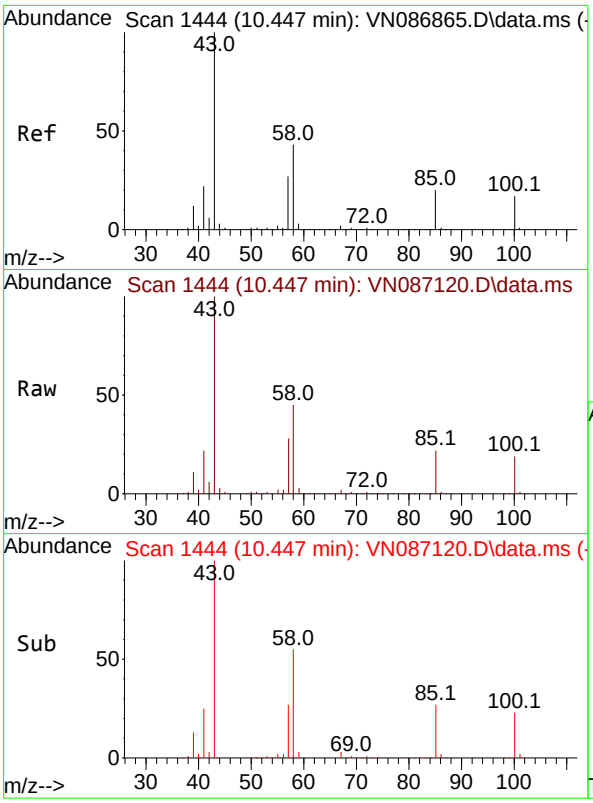


#50
Toluene-d8
Concen: 49.330 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 98 Resp: 354172

Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.4	80.0



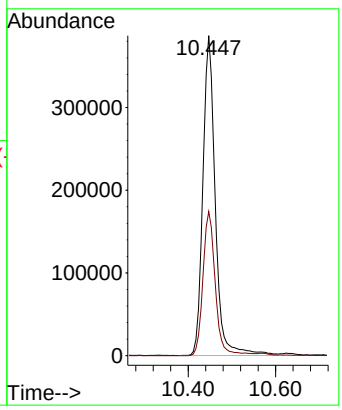


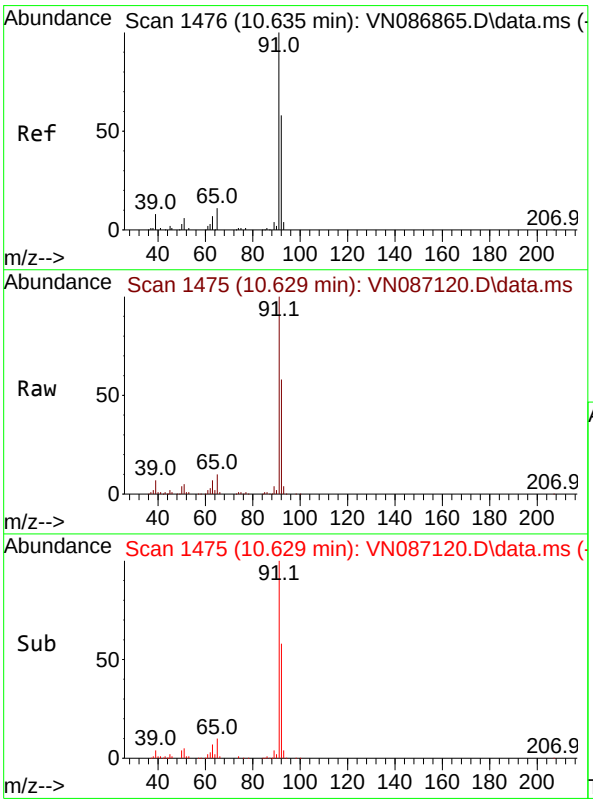
#51
4-Methyl-2-Pentanone
Concen: 230.578 ug/l
RT: 10.447 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 766458

Ion	Ratio	Lower	Upper
43	100		
58	44.9	34.2	51.4

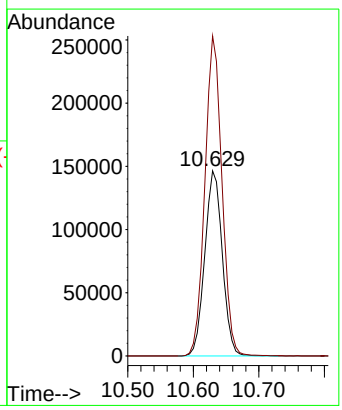


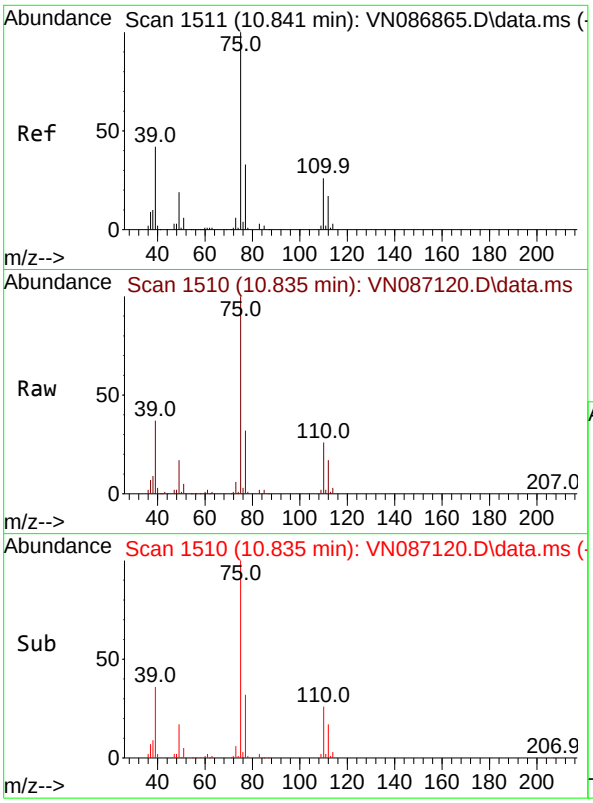


#52
Toluene
Concen: 50.490 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 92 Resp: 272681

Ion	Ratio	Lower	Upper
92	100		
91	168.2	136.5	204.7



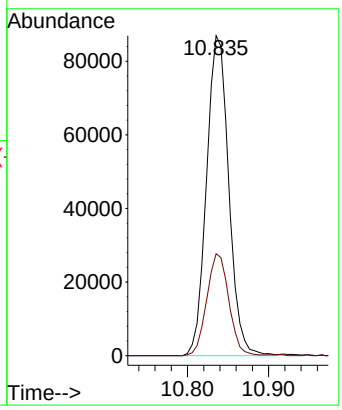


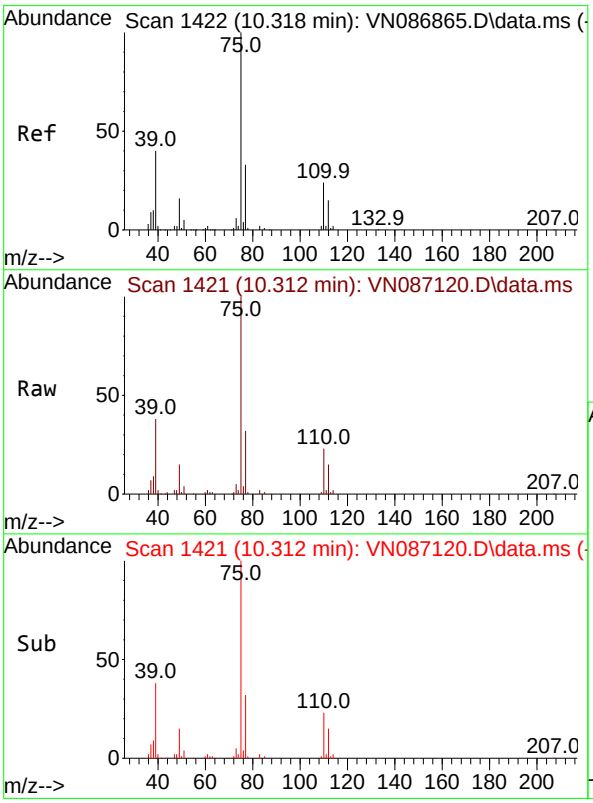
#53
t-1,3-Dichloropropene
Concen: 50.304 ug/l
RT: 10.835 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 165272

Ion	Ratio	Lower	Upper
75	100		
77	31.8	26.4	39.6

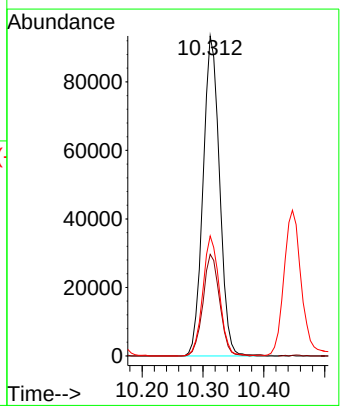


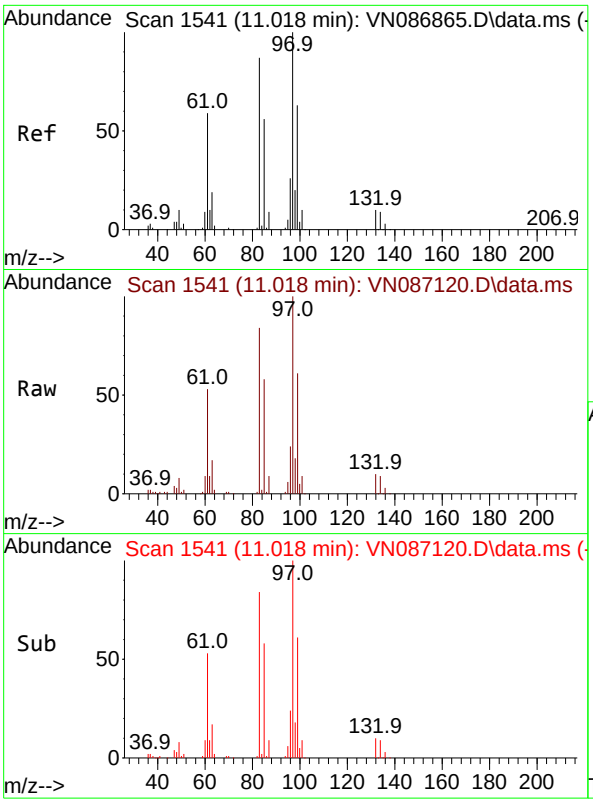


#54
cis-1,3-Dichloropropene
Concen: 50.028 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 75 Resp: 175866

Ion	Ratio	Lower	Upper
75	100		
77	31.8	26.2	39.4
39	37.5	32.3	48.5



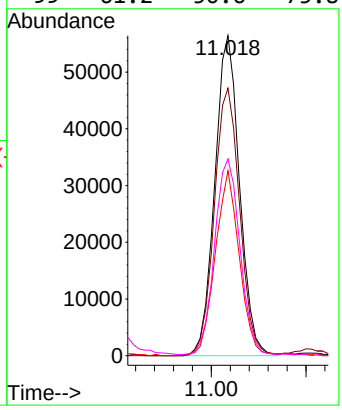


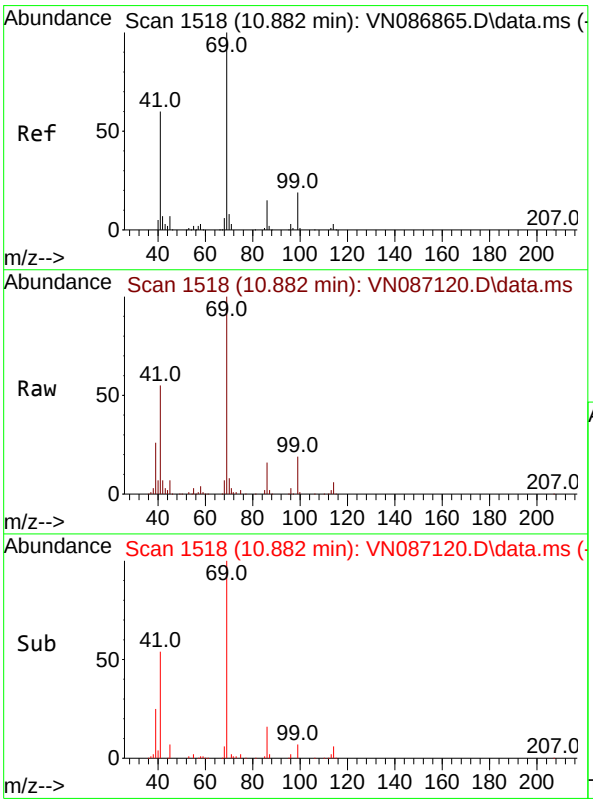
#55
1,1,2-Trichloroethane
Concen: 49.240 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 97 Resp: 102325

Ion	Ratio	Lower	Upper
97	100		
83	83.6	69.7	104.5
85	57.8	45.1	67.7
99	61.2	50.6	75.8

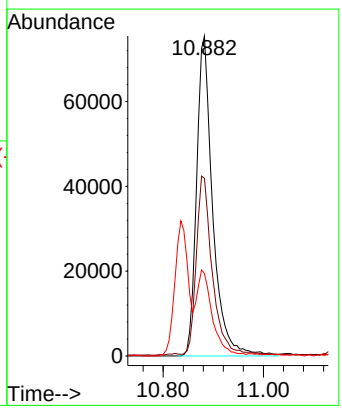


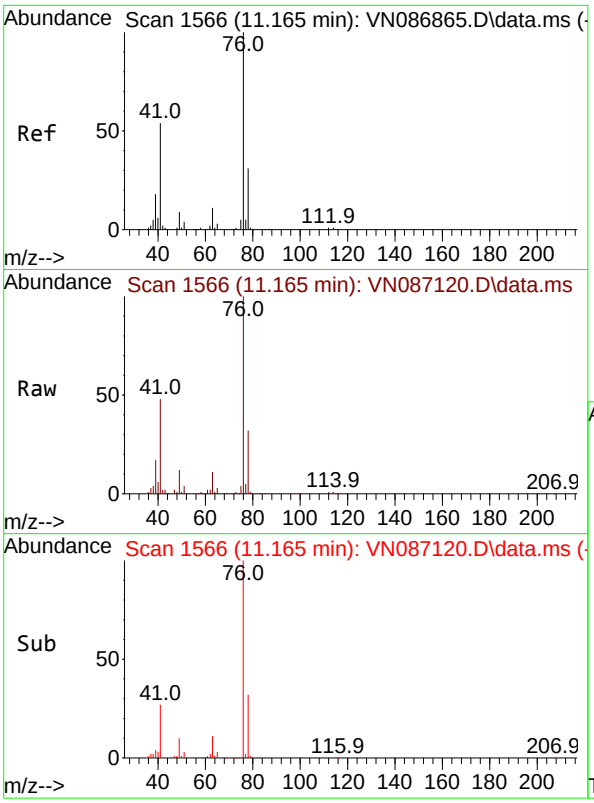


#56
Ethyl methacrylate
Concen: 50.911 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 69 Resp: 168508

Ion	Ratio	Lower	Upper
69	100		
41	55.1	47.2	70.8
39	25.2	23.0	34.6



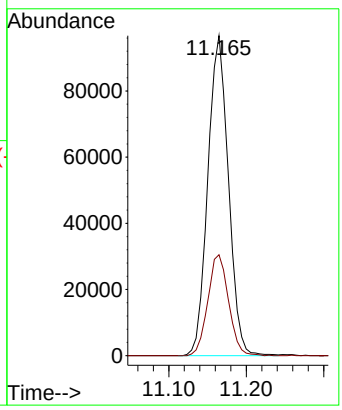


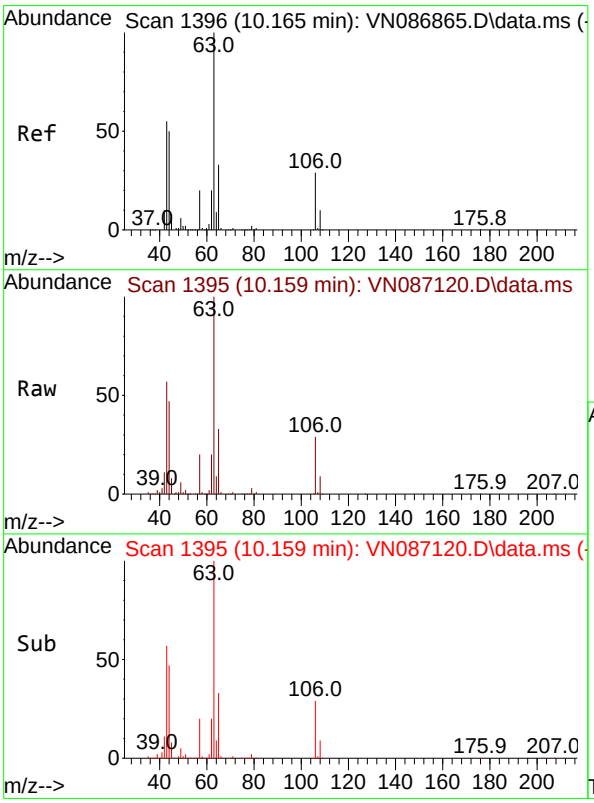
#57
1,3-Dichloropropane
Concen: 49.502 ug/l
RT: 11.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 76 Resp: 178447

Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.3	37.9

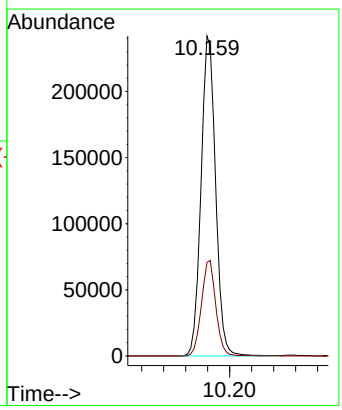


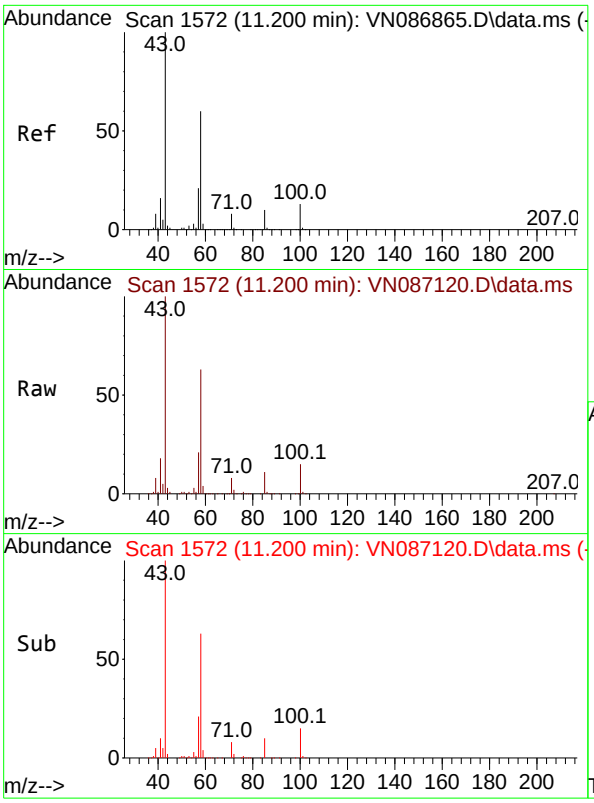


#58
2-Chloroethyl Vinyl ether
Concen: 225.119 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 63 Resp: 444423

Ion	Ratio	Lower	Upper
63	100		
106	29.4	23.0	34.6



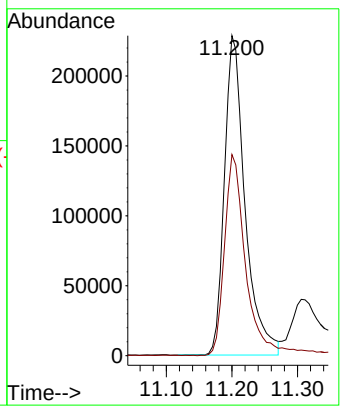


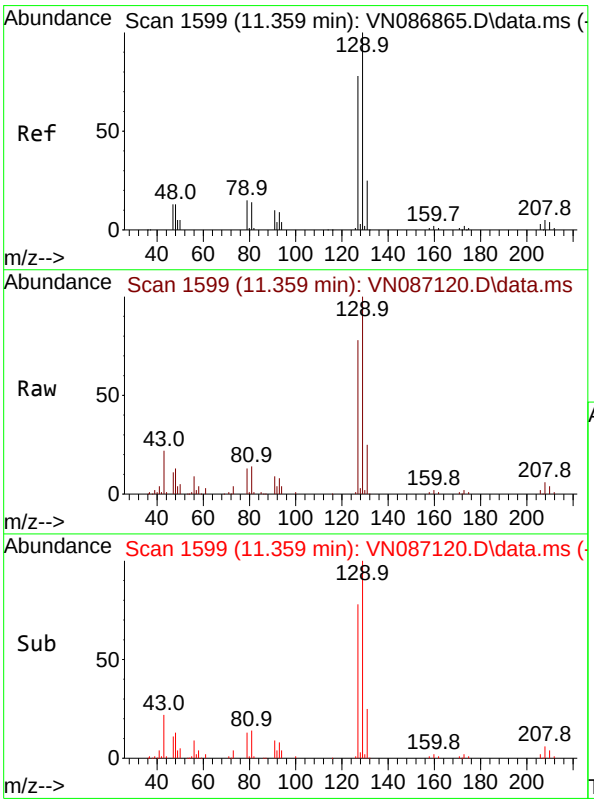
#59
2-Hexanone
Concen: 232.920 ug/l
RT: 11.200 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 43 Resp: 498716

Ion	Ratio	Lower	Upper
43	100		
58	66.2	30.4	91.3

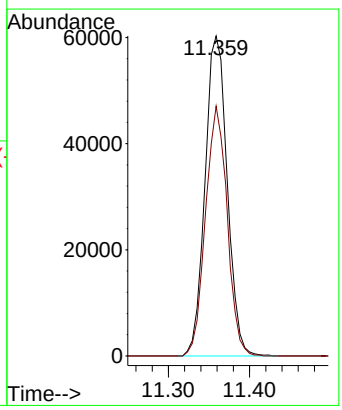


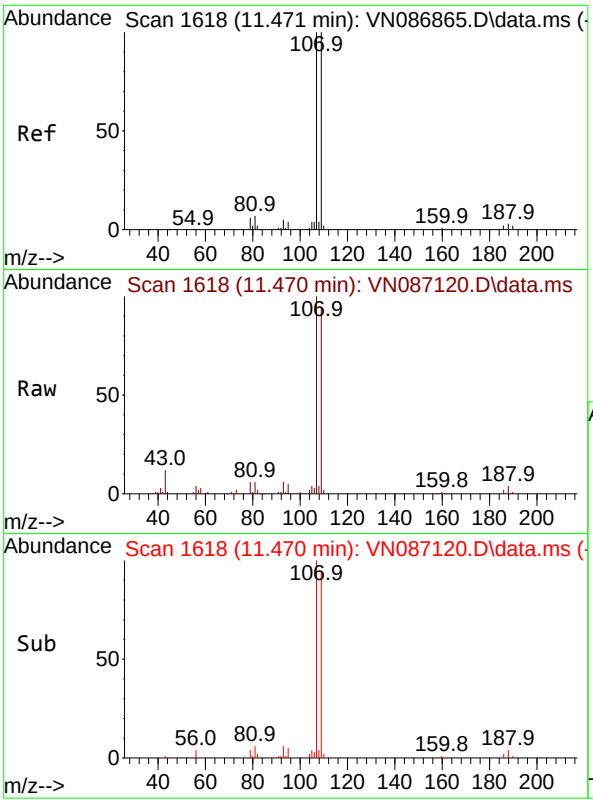


#60
Dibromochloromethane
Concen: 52.840 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:129 Resp: 114404

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.6	115.8



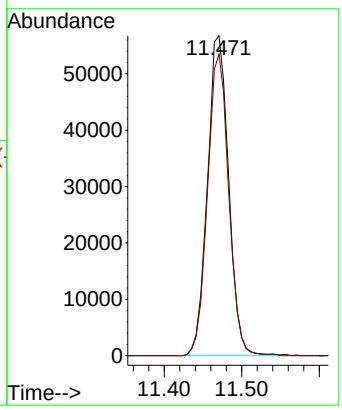


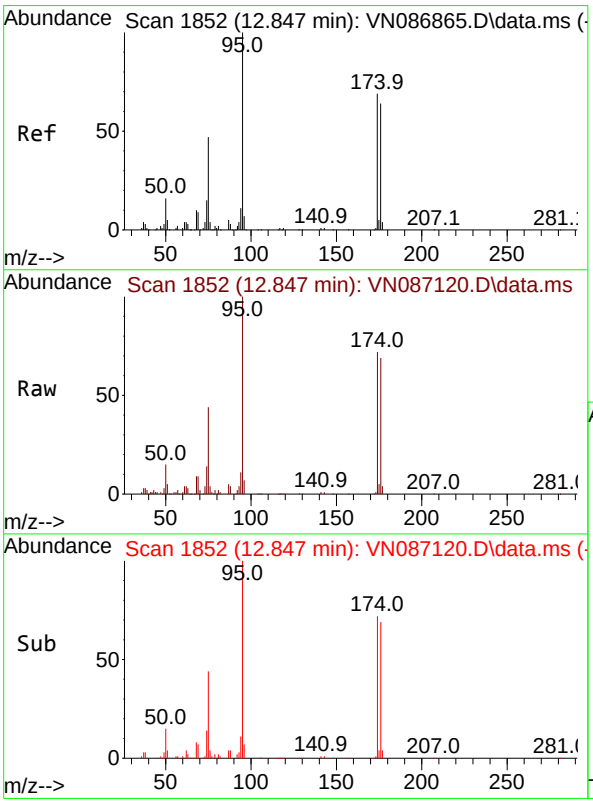
#61
1,2-Dibromoethane
Concen: 50.592 ug/l
RT: 11.470 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:107 Resp: 107761

Ion	Ratio	Lower	Upper
107	100		
109	94.1	76.3	114.5

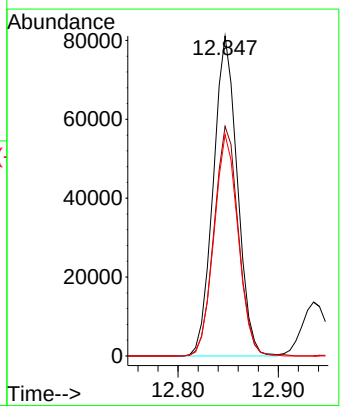


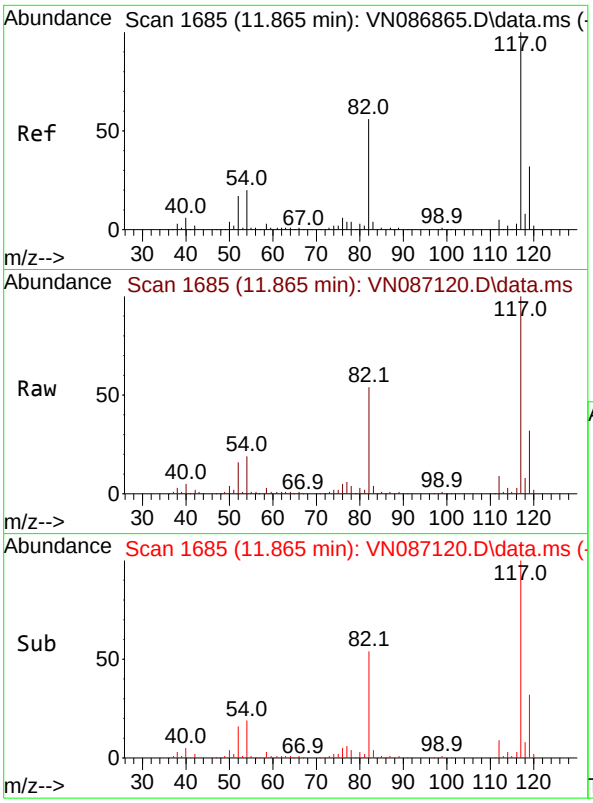


#62
4-Bromofluorobenzene
Concen: 50.563 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 95 Resp: 134875

Ion	Ratio	Lower	Upper
95	100		
174	72.8	0.0	141.8
176	69.6	0.0	132.6



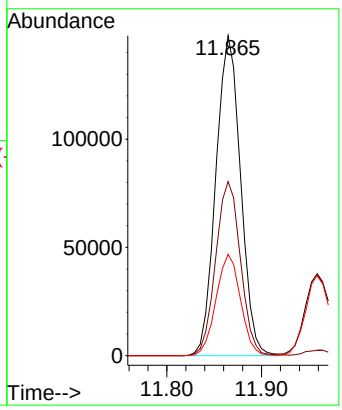


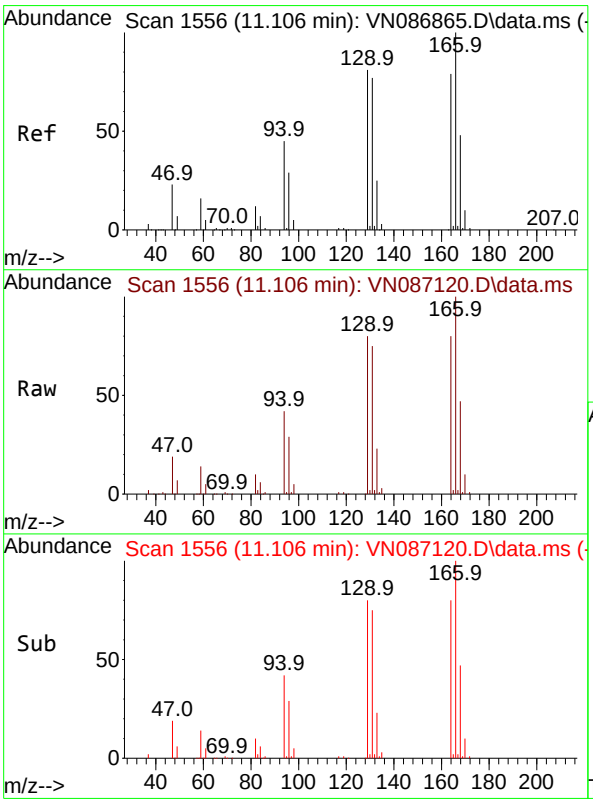
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:117 Resp: 268361

Ion	Ratio	Lower	Upper
117	100		
82	54.4	44.6	67.0
119	31.6	25.5	38.3

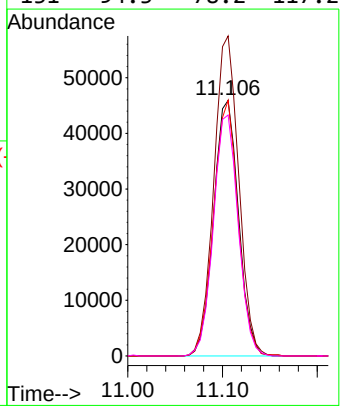


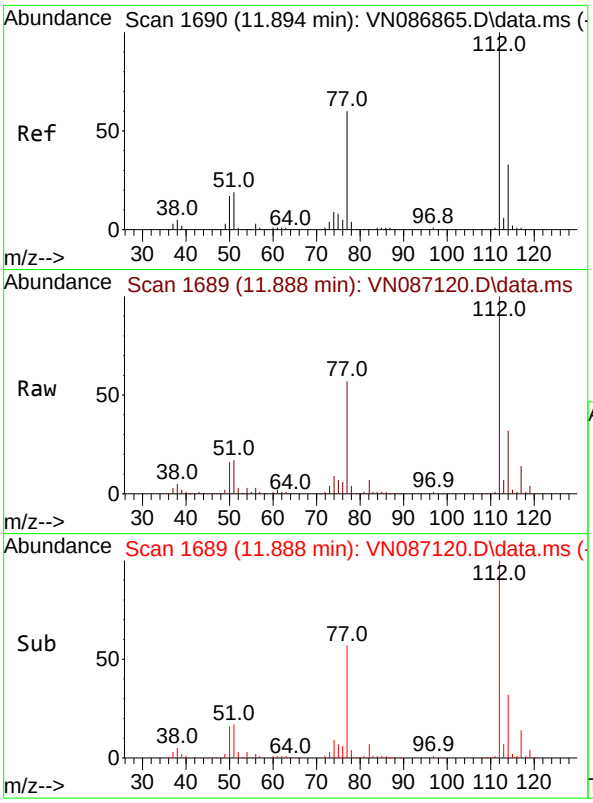


#64
Tetrachloroethene
Concen: 49.473 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:164 Resp: 84024

Ion	Ratio	Lower	Upper
164	100		
166	125.2	101.8	152.8
129	100.0	83.0	124.4
131	94.3	78.2	117.2



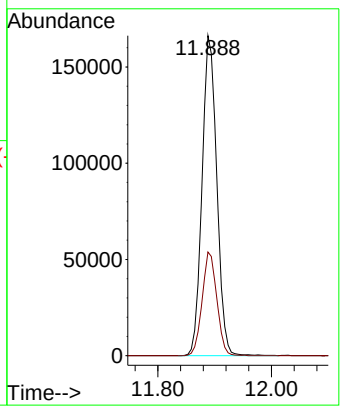


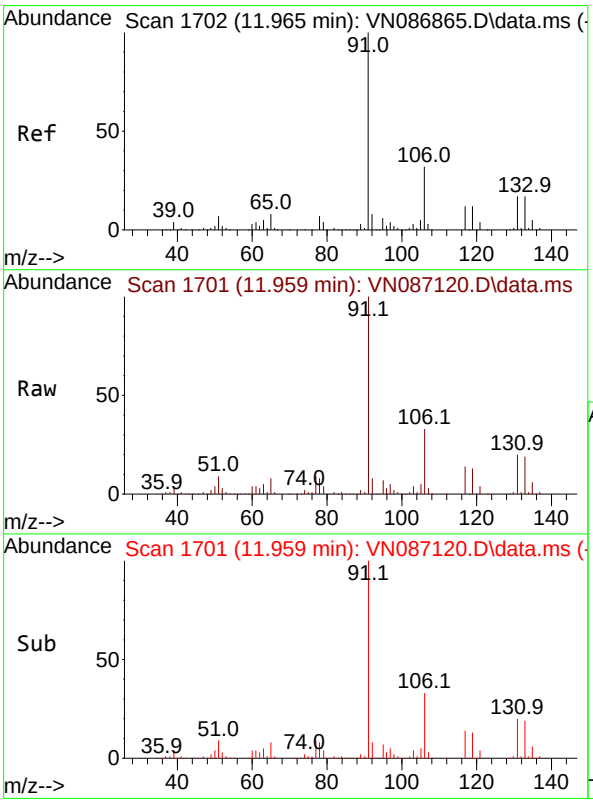
#65
Chlorobenzene
Concen: 50.461 ug/l
RT: 11.888 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:112 Resp: 298669

Ion	Ratio	Lower	Upper
112	100		
114	32.4	26.2	39.2

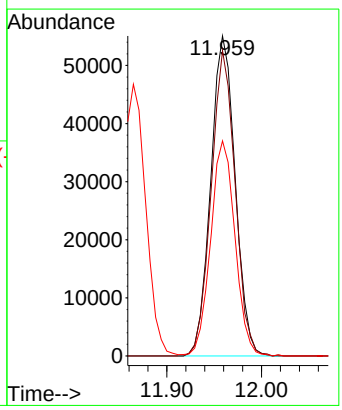


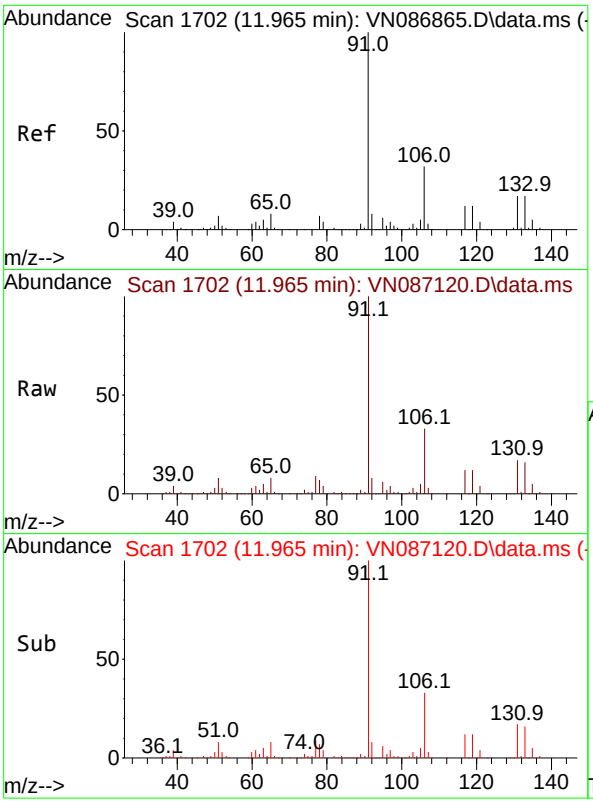


#66
1,1,1,2-Tetrachloroethane
Concen: 51.897 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:131 Resp: 98738

Ion	Ratio	Lower	Upper
131	100		
133	93.7	48.3	144.8
119	67.1	34.0	101.8



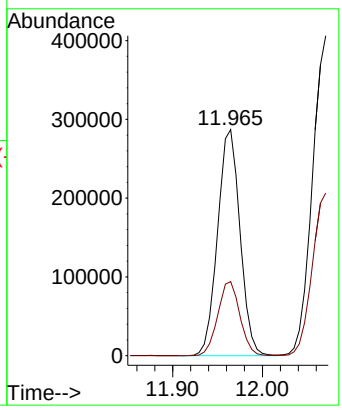


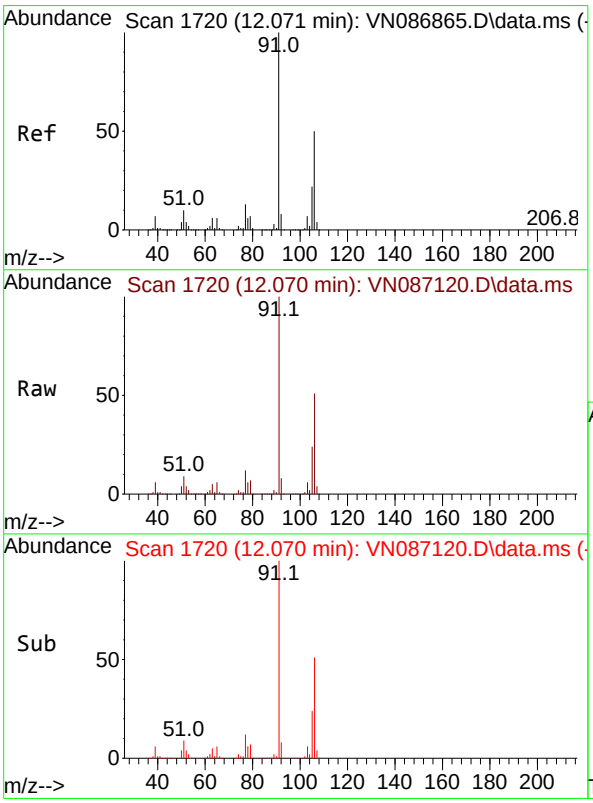
#67
Ethyl Benzene
Concen: 48.860 ug/l
RT: 11.965 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 498126

Ion	Ratio	Lower	Upper
91	100		
106	32.8	25.4	38.2

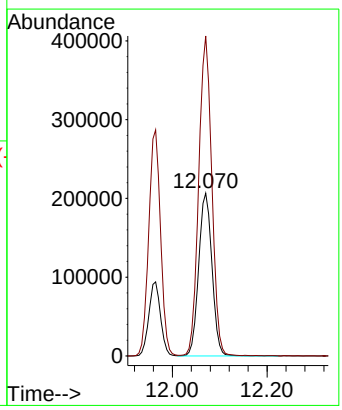


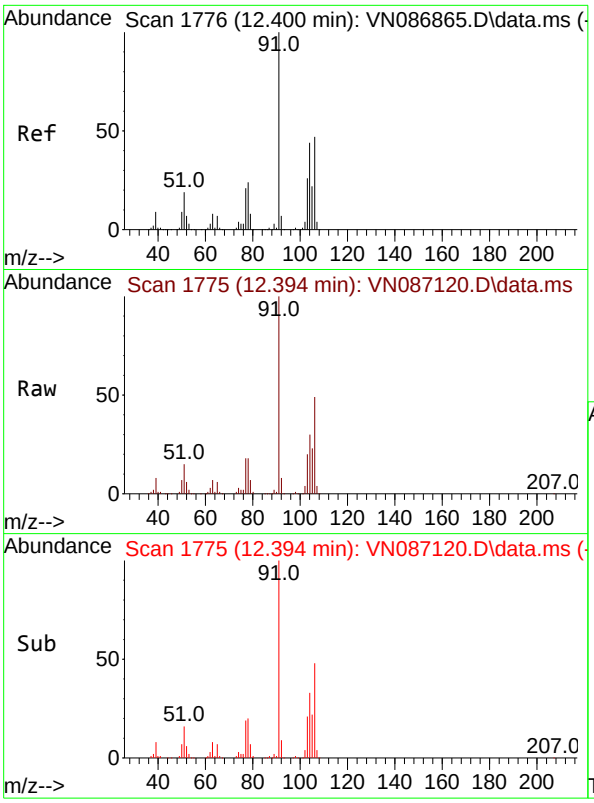


#68
m/p-Xylenes
Concen: 103.171 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:106 Resp: 402639

Ion	Ratio	Lower	Upper
106	100		
91	192.5	159.4	239.0



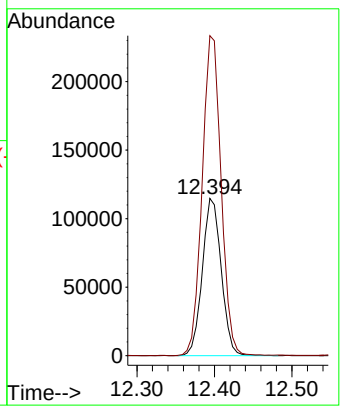


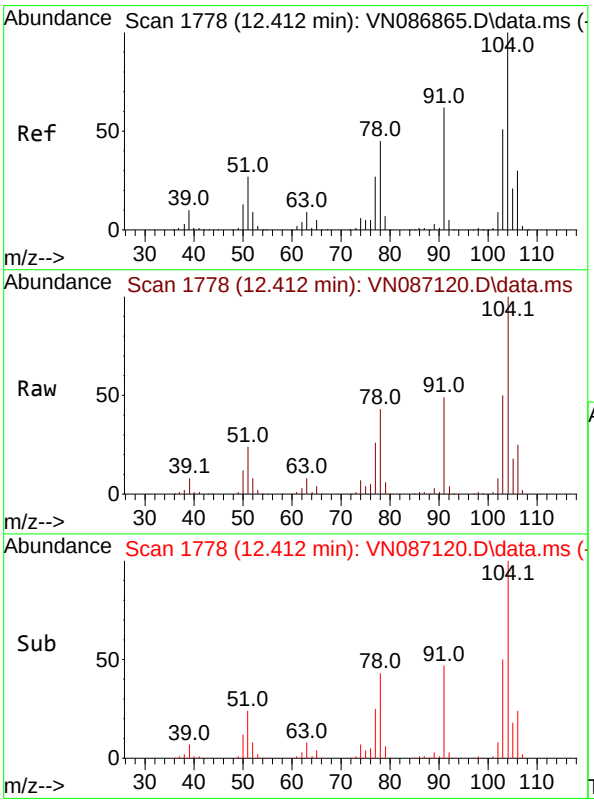
#69
o-Xylene
Concen: 52.041 ug/l
RT: 12.394 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:106 Resp: 194516

Ion	Ratio	Lower	Upper
106	100		
91	203.8	106.1	318.1

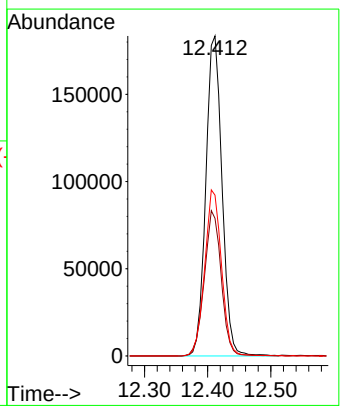


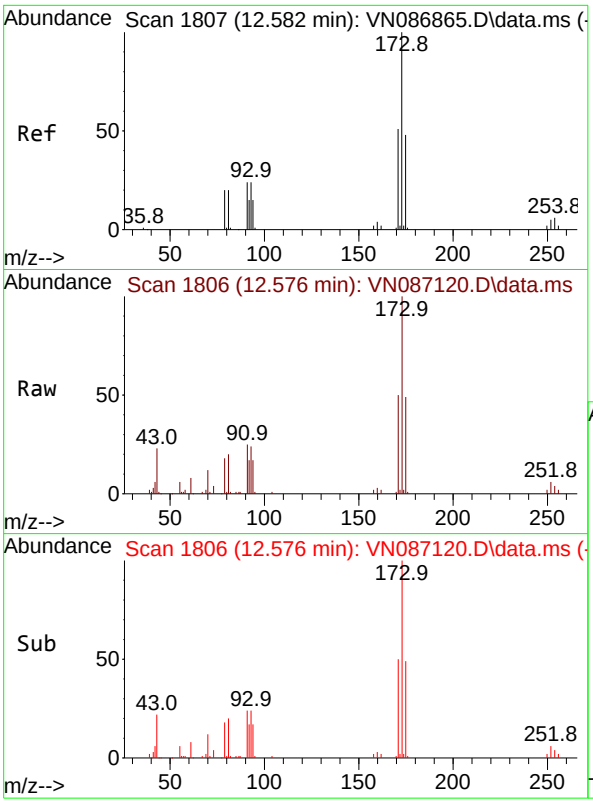


#70
Styrene
Concen: 51.208 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:104 Resp: 327523

Ion	Ratio	Lower	Upper
104	100		
78	47.4	38.5	57.7
103	54.0	43.1	64.7



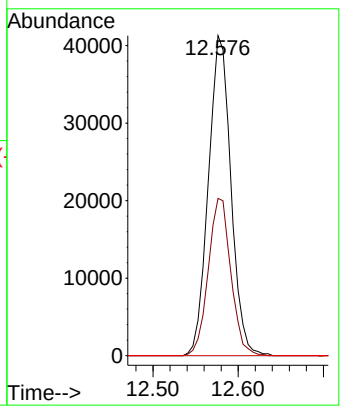


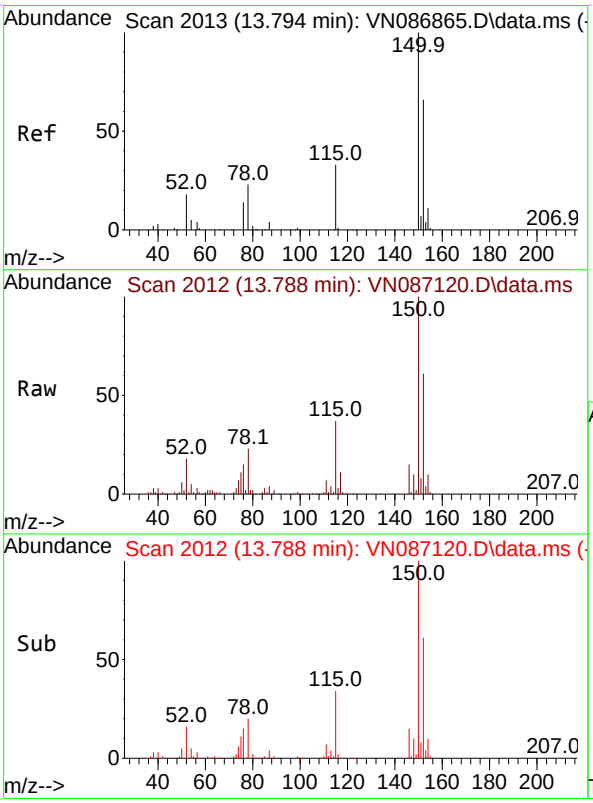
#71
Bromoform
Concen: 53.806 ug/l
RT: 12.576 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:173 Resp: 75851

Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.1	72.4
254	0.0	0.0	0.0

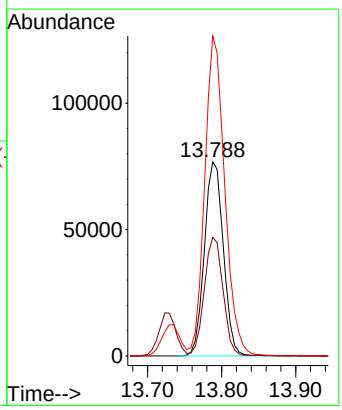


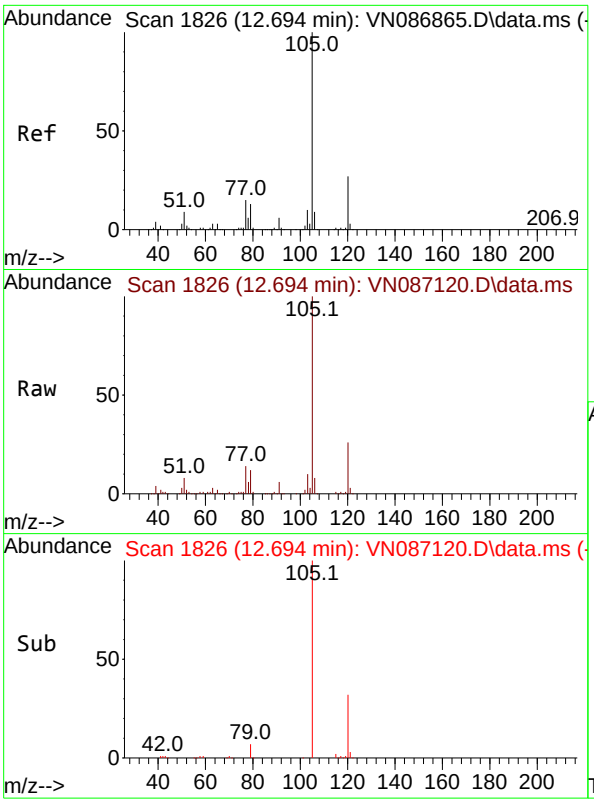


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:152 Resp: 136487

Ion	Ratio	Lower	Upper
152	100		
115	59.6	30.1	90.5
150	174.1	0.0	345.0



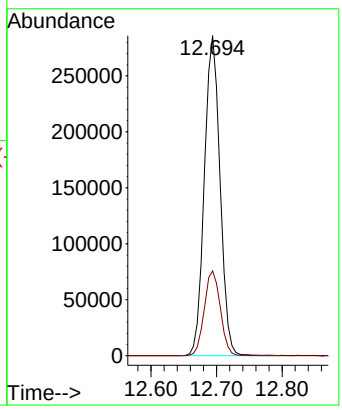


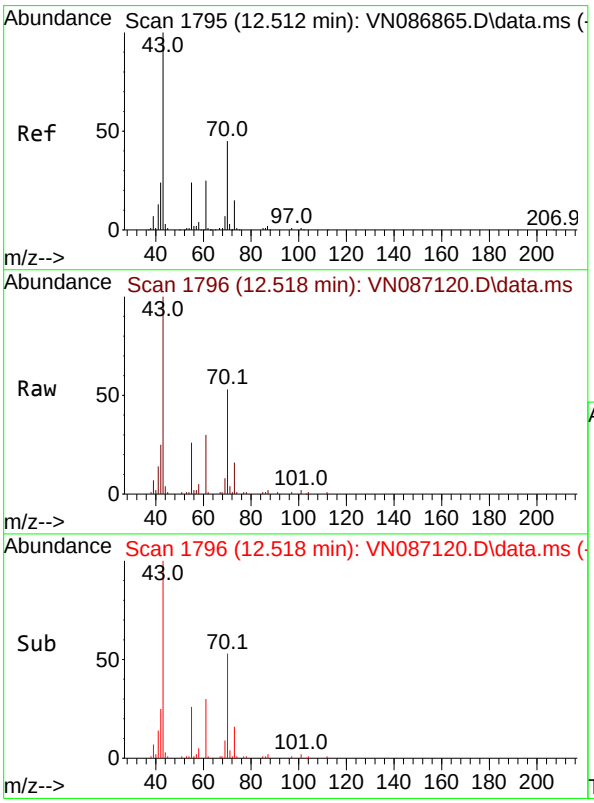
#73
Isopropylbenzene
Concen: 47.874 ug/l
RT: 12.694 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 476017

Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.5	40.4

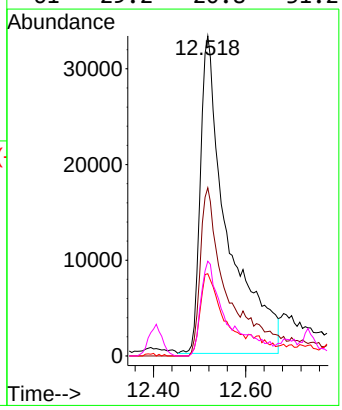


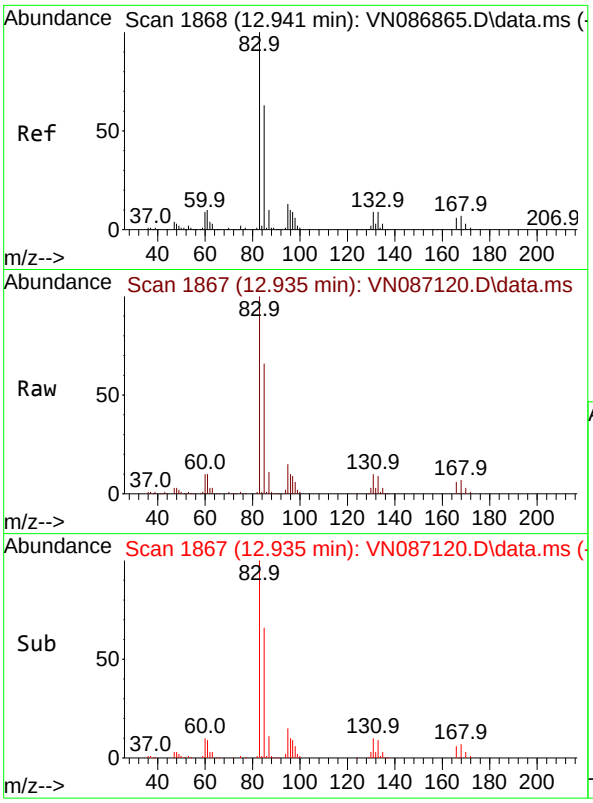


#74
N-amyl acetate
Concen: 39.022 ug/l
RT: 12.518 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 43 Resp: 135586

Ion	Ratio	Lower	Upper
43	100		
70	41.5	37.6	56.4
55	22.6	19.0	28.6
61	29.2	20.8	31.2



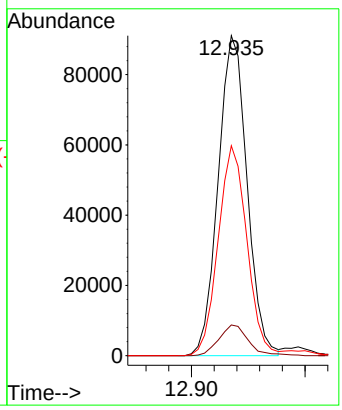


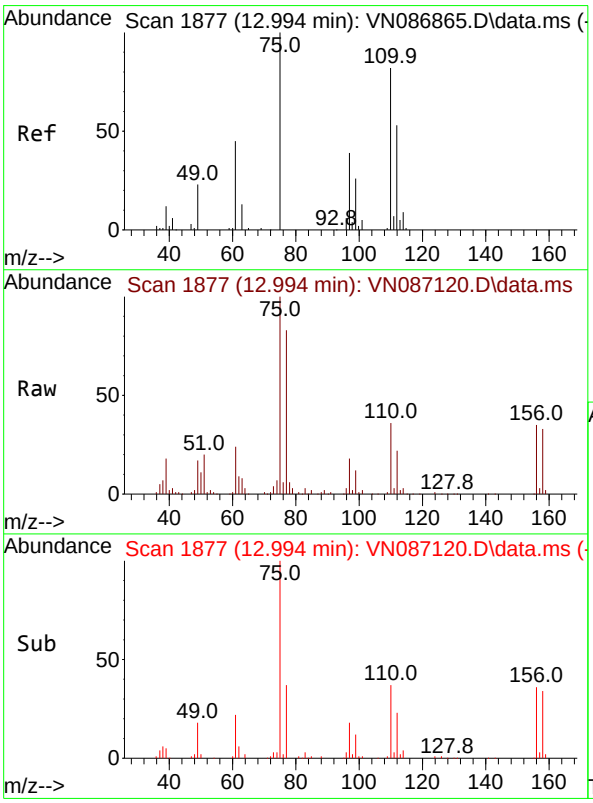
#75
1,1,2,2-Tetrachloroethane
Concen: 47.714 ug/l
RT: 12.935 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 83 Resp: 160726

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.9	14.7
85	65.5	32.0	96.0

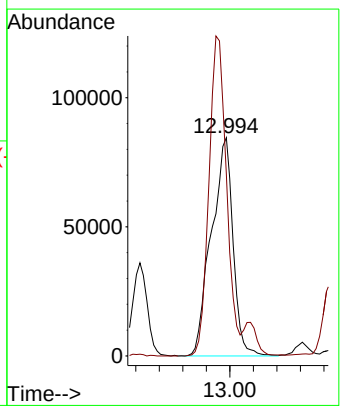


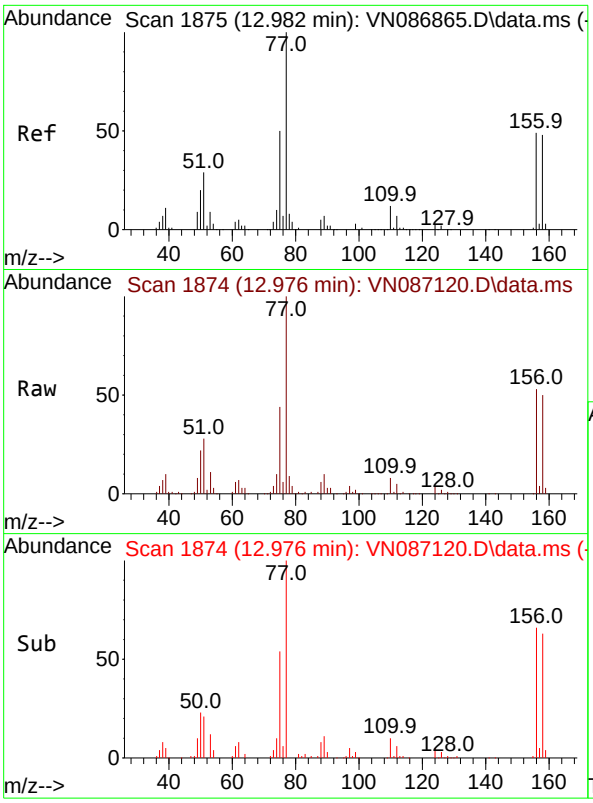


#76
1,2,3-Trichloropropane
Concen: 66.767 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 75 Resp: 216616

Ion	Ratio	Lower	Upper
75	100		
77	118.8	79.3	237.9



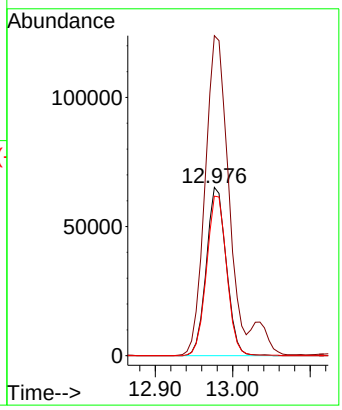


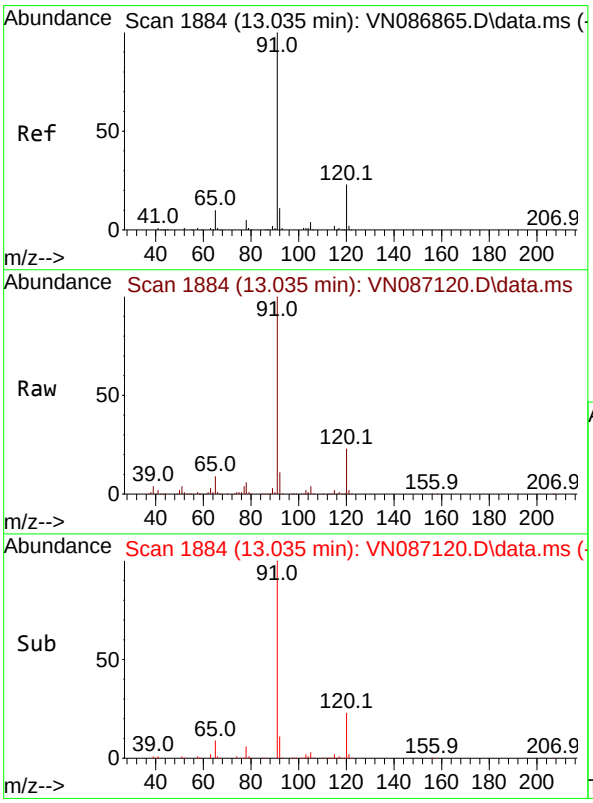
#77
Bromobenzene
Concen: 51.165 ug/l
RT: 12.976 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:156 Resp: 116672

Ion	Ratio	Lower	Upper
156	100		
77	220.6	117.7	353.1
158	95.7	48.1	144.4

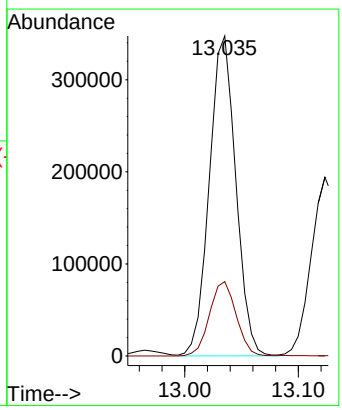


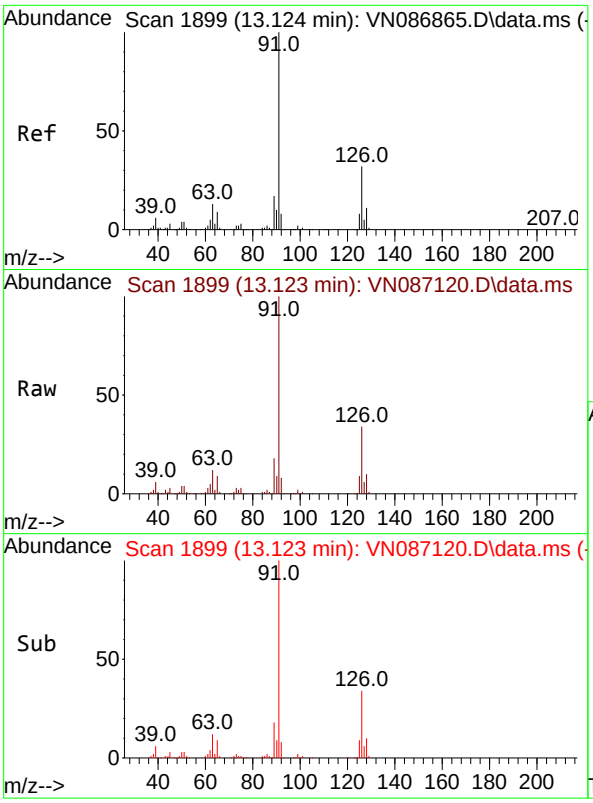


#78
n-propylbenzene
Concen: 46.638 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 91 Resp: 563557

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.4	34.2



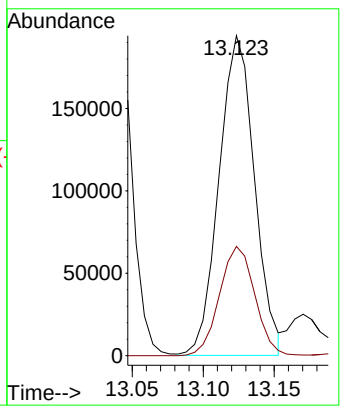


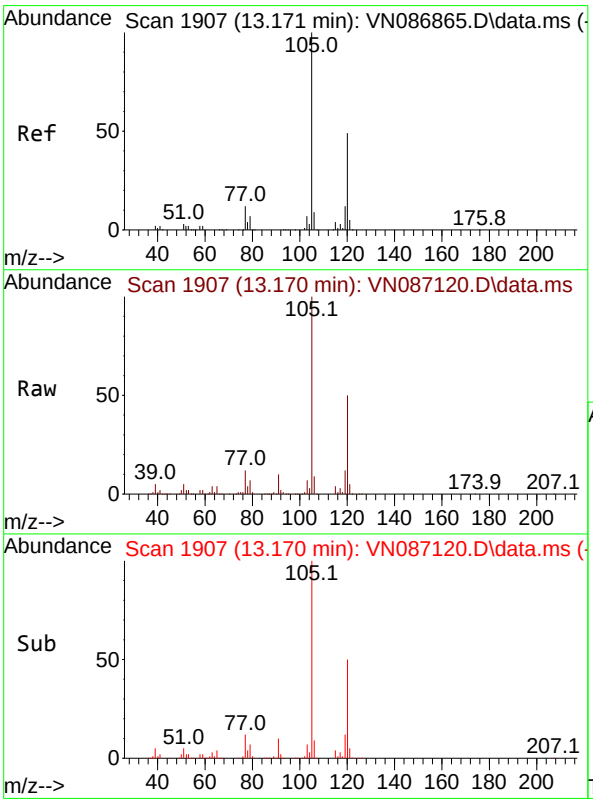
#79
2-Chlorotoluene
Concen: 46.477 ug/l
RT: 13.123 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 336805

Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.2	48.5

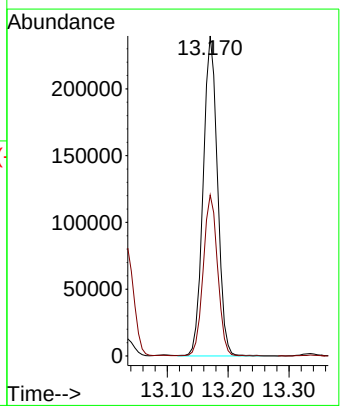


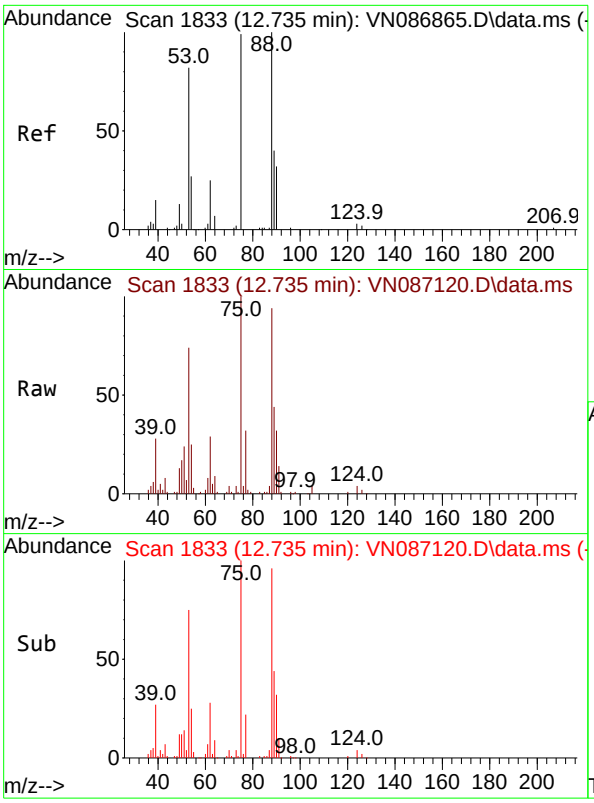


#80
1,3,5-Trimethylbenzene
Concen: 47.807 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:105 Resp: 392465

Ion	Ratio	Lower	Upper
105	100		
120	50.4	24.9	74.6



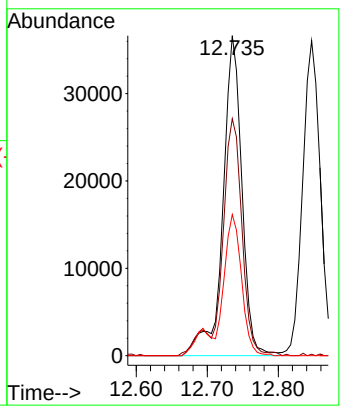


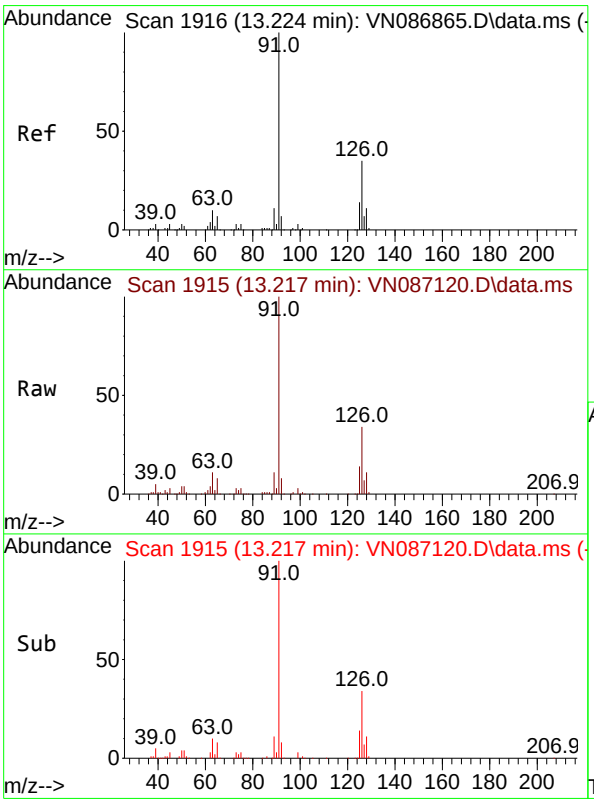
#81
trans-1,4-Dichloro-2-butene
Concen: 48.329 ug/l
RT: 12.735 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 75 Resp: 68115

Ion	Ratio	Lower	Upper
75	100		
53	71.4	66.6	99.8
89	39.6	36.7	55.1

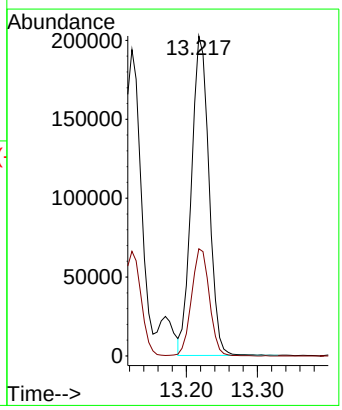


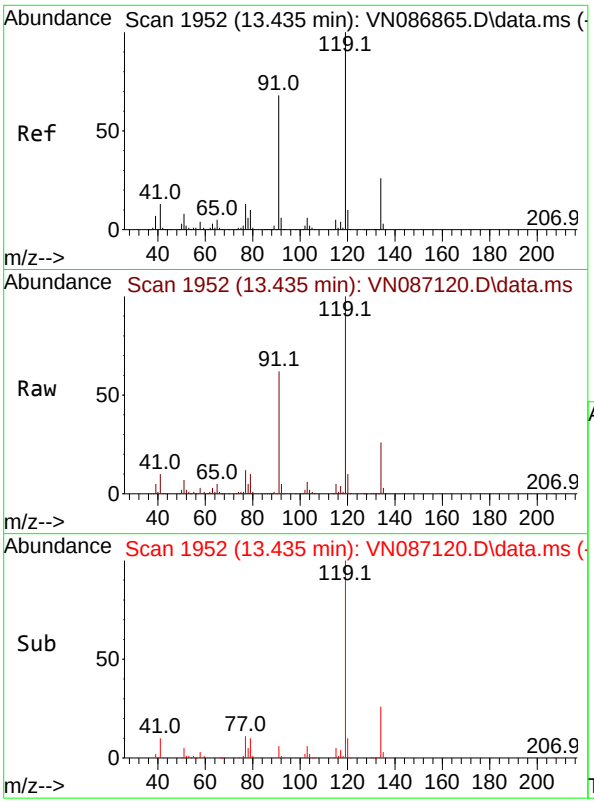


#82
4-Chlorotoluene
Concen: 47.356 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 91 Resp: 347235

Ion	Ratio	Lower	Upper
91	100		
126	34.4	16.7	50.1



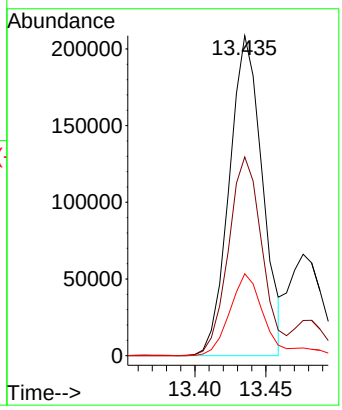


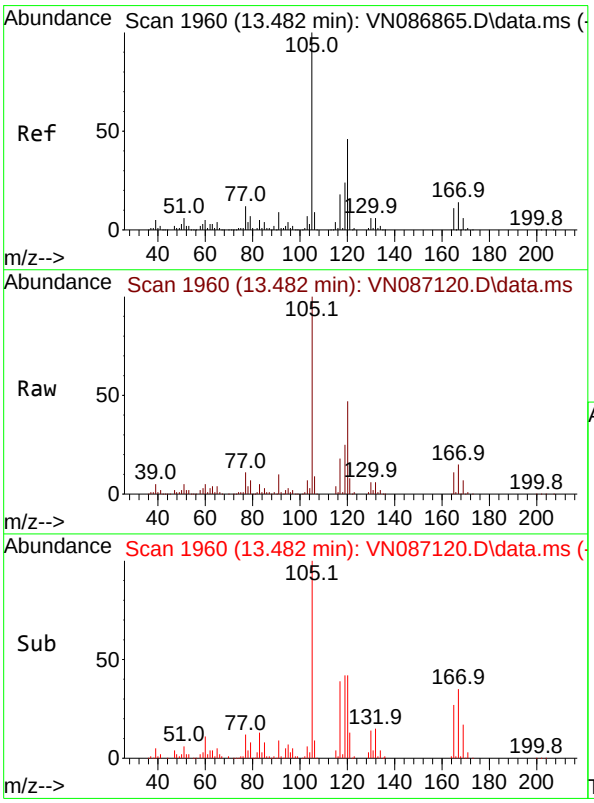
#83
tert-Butylbenzene
Concen: 44.991 ug/l
RT: 13.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:119 Resp: 338090

Ion	Ratio	Lower	Upper
119	100		
91	63.8	32.1	96.5
134	27.4	13.4	40.1

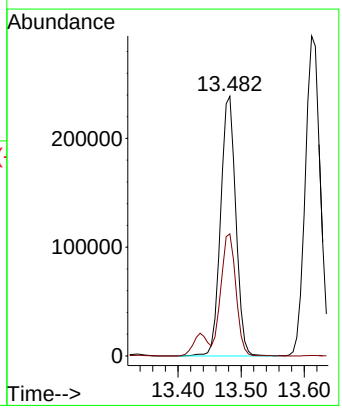


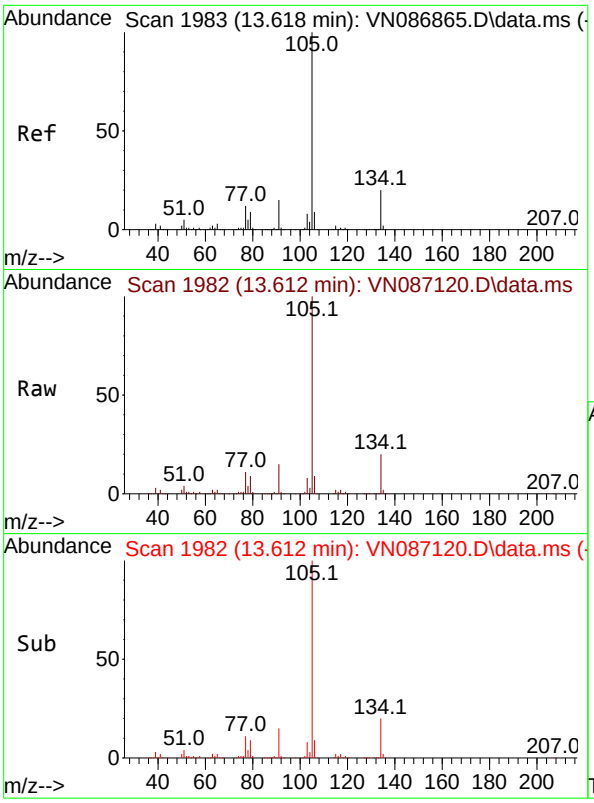


#84
1,2,4-Trimethylbenzene
Concen: 48.443 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:105 Resp: 398780

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.2	69.6



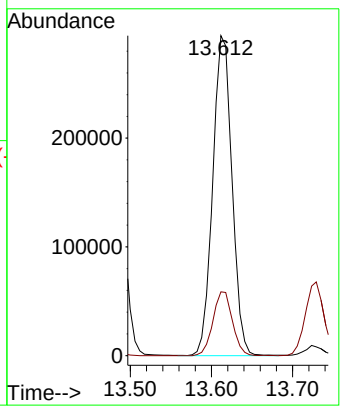


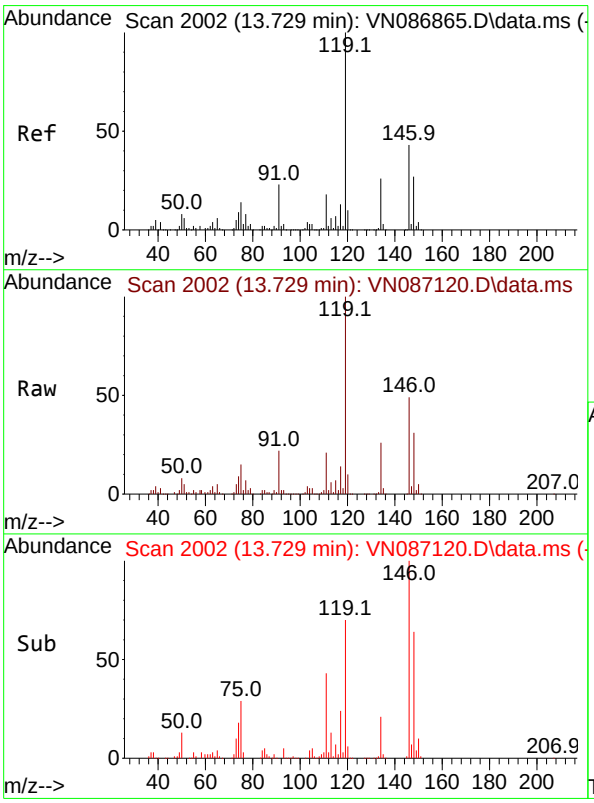
#85
sec-Butylbenzene
Concen: 44.538 ug/l
RT: 13.612 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:105 Resp: 486035

Ion	Ratio	Lower	Upper
105	100		
134	20.2	10.0	30.0

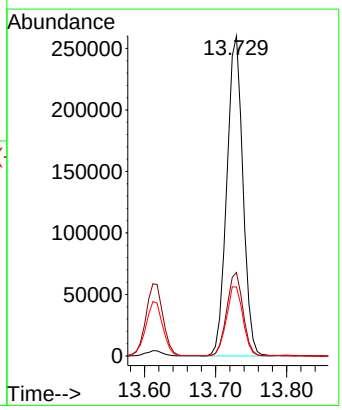


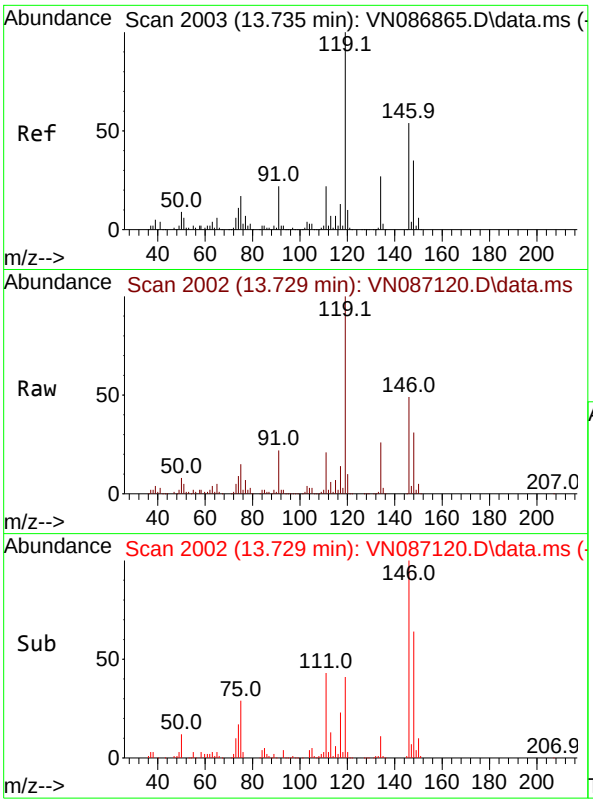


#86
p-Isopropyltoluene
Concen: 45.321 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:119 Resp: 408834

Ion	Ratio	Lower	Upper
119	100		
134	26.4	13.5	40.4
91	22.2	11.5	34.4



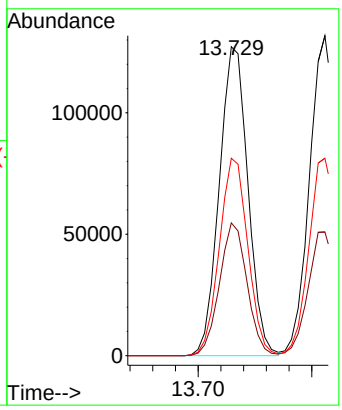


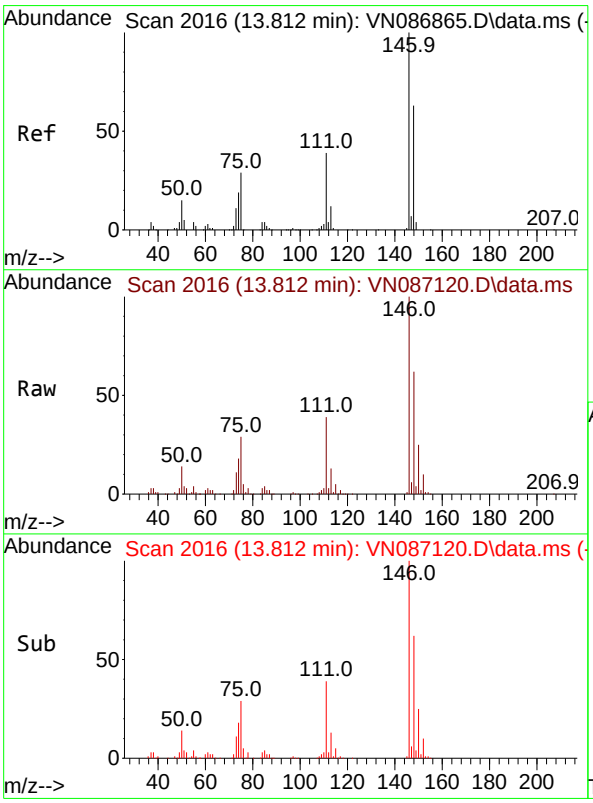
#87
1,3-Dichlorobenzene
Concen: 49.757 ug/l
RT: 13.729 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 223232

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.9	62.8
148	63.5	32.0	96.2

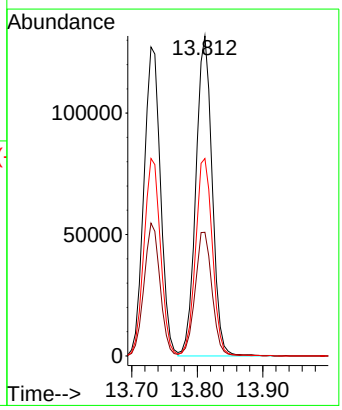


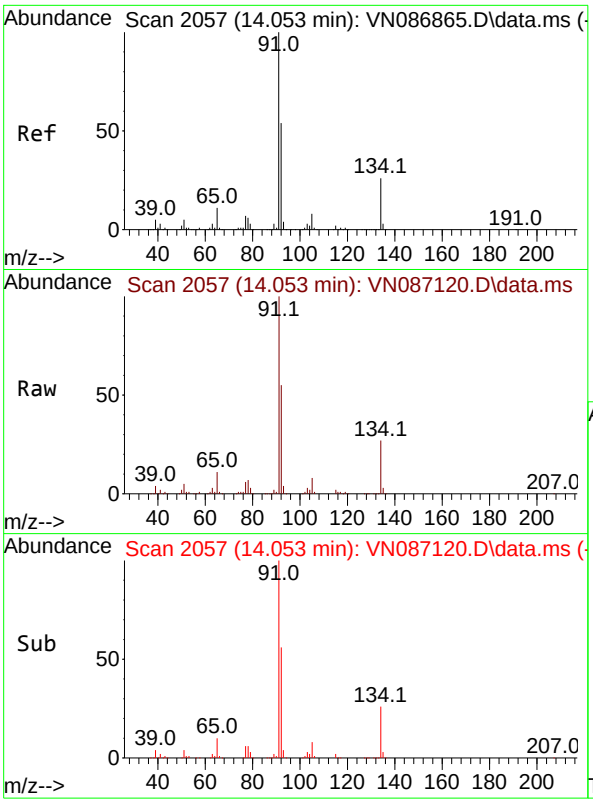


#88
1,4-Dichlorobenzene
Concen: 49.767 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:146 Resp: 227638

Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.9	59.7
148	63.7	31.8	95.4



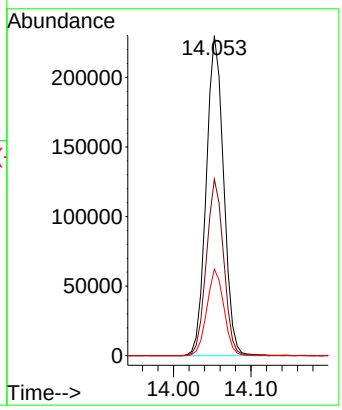


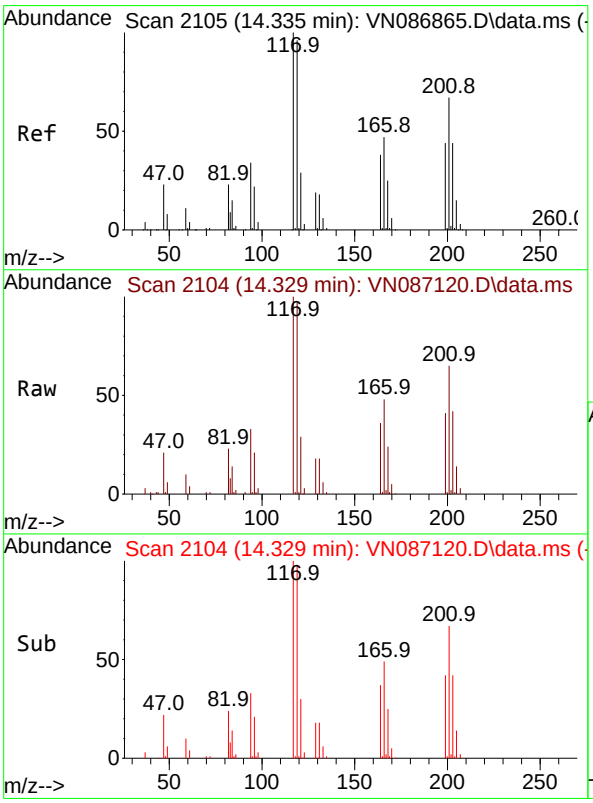
#89
n-Butylbenzene
Concen: 41.002 ug/l
RT: 14.053 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion: 91 Resp: 358266

Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.5	82.4
134	26.5	13.0	39.0

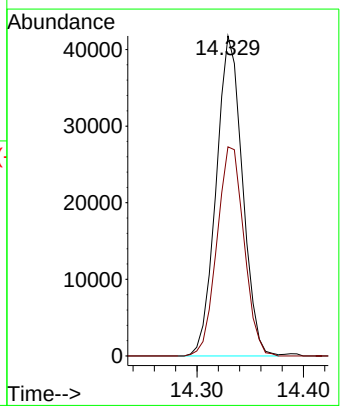


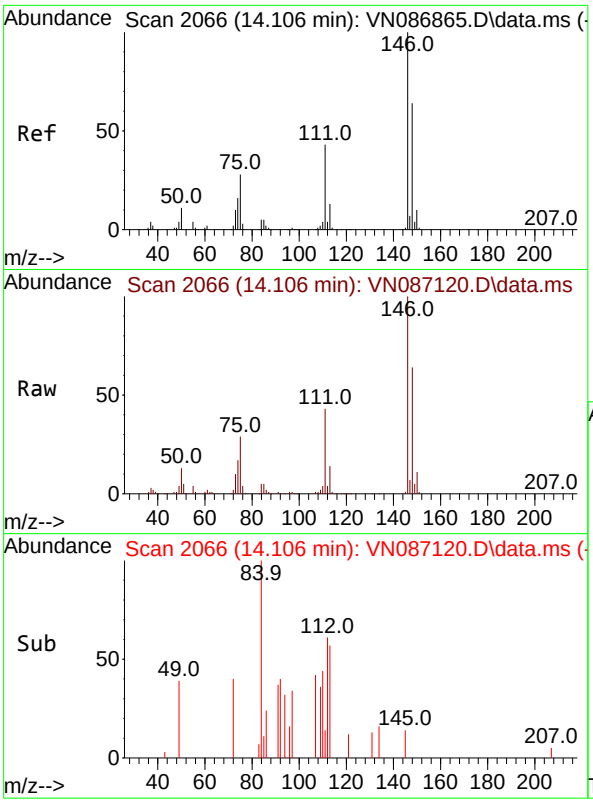


#90
Hexachloroethane
Concen: 46.744 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:117 Resp: 71475

Ion	Ratio	Lower	Upper
117	100		
201	67.4	33.2	99.6



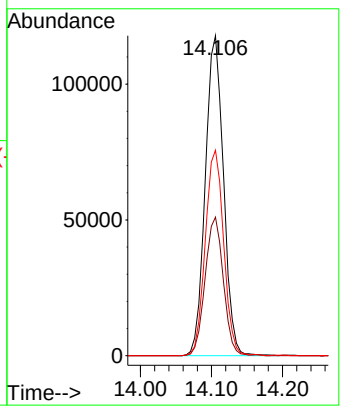


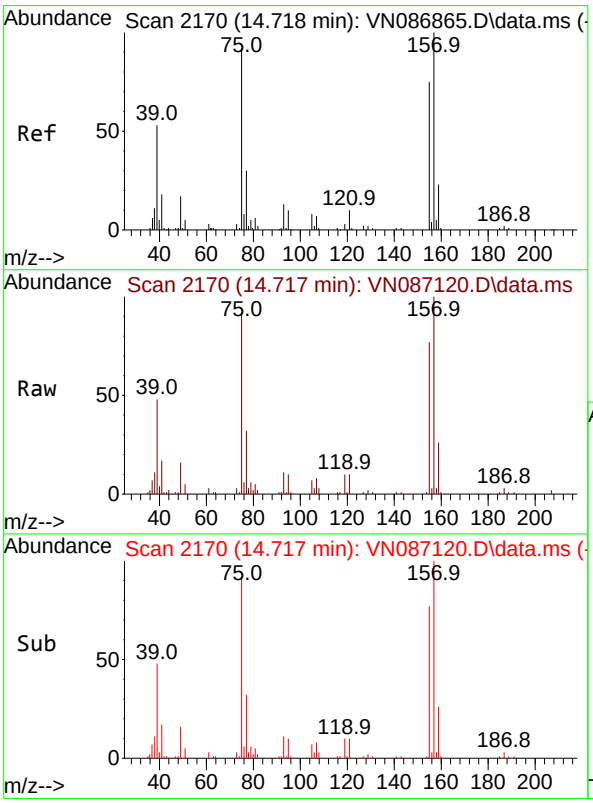
#91
1,2-Dichlorobenzene
Concen: 48.700 ug/l
RT: 14.106 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:146 Resp: 209913

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.6	64.6
148	65.0	31.7	95.1

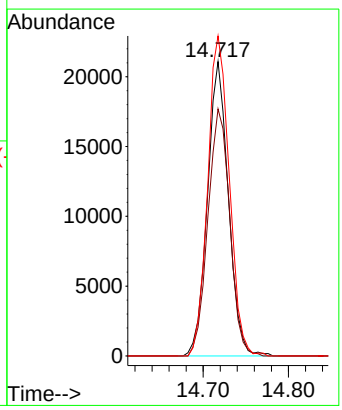


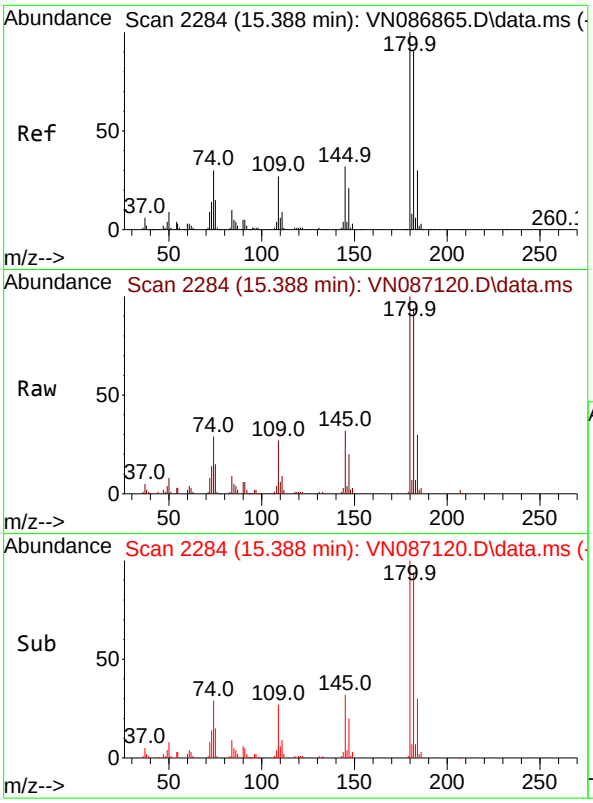


#92
1,2-Dibromo-3-Chloropropane
Concen: 44.717 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion: 75 Resp: 36024

Ion	Ratio	Lower	Upper
75	100		
155	87.3	41.1	123.4
157	112.1	52.7	158.1



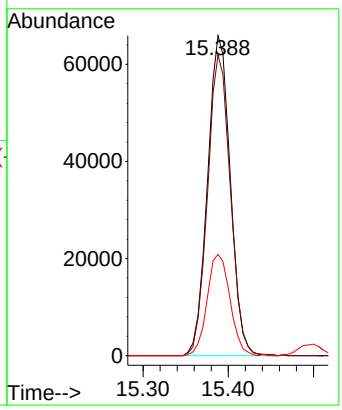


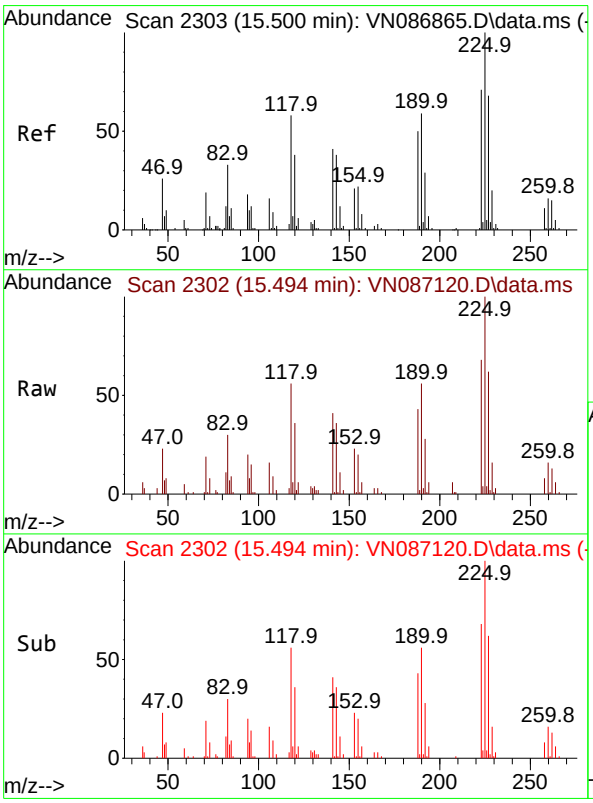
#93
1,2,4-Trichlorobenzene
Concen: 44.406 ug/l
RT: 15.388 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:180 Resp: 122224

Ion	Ratio	Lower	Upper
180	100		
182	94.1	46.9	140.7
145	31.8	16.0	47.9

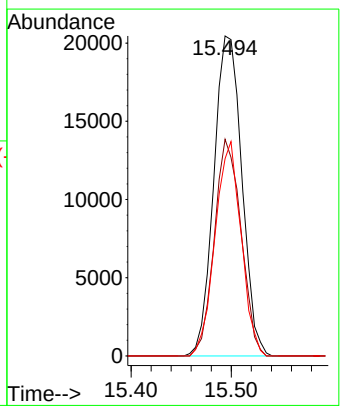


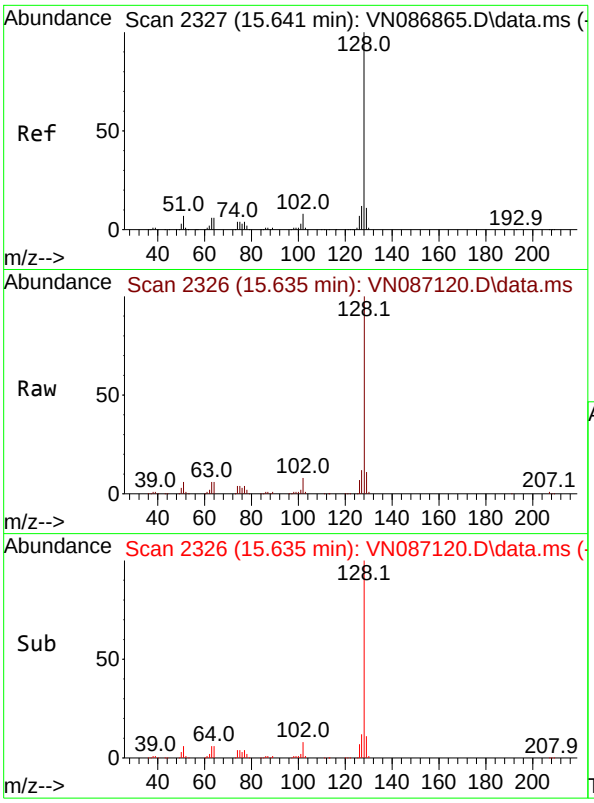


#94
Hexachlorobutadiene
Concen: 38.652 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:225 Resp: 39636

Ion	Ratio	Lower	Upper
225	100		
223	64.5	33.5	100.4
227	62.2	31.1	93.5



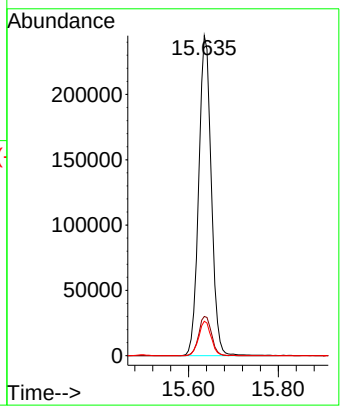


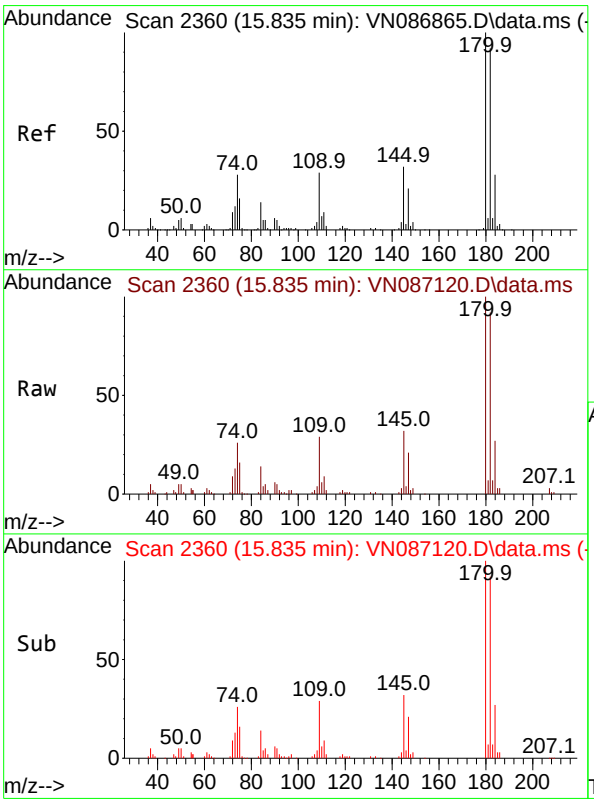
#95
Naphthalene
Concen: 46.438 ug/l
RT: 15.635 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050EC

Tgt Ion:128 Resp: 475760

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.2	15.2
129	10.6	8.8	13.2





#96
1,2,3-Trichlorobenzene
Concen: 42.704 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN087120.D
Acq: 19 Jun 2025 18:13

Tgt Ion:180 Resp: 116780

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.0	141.0
145	33.4	16.6	49.8

