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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : RFP 905

WESTON SOLUTIONS, INC.

1090 King Georges Post Road

Suite 201

Edison, NJ - 08837-3703

Phone No: 732-585-4410

ORDER ID : Q3447

ATTENTION : Smita Sumbaly

Laboratory Certification ID # 20012

Table Of Contents for Q3447

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 12

9) QC Data Summary For VOC-TCLVOA-10 14

- 9.1) Deuterated Monitoring Compound Summary 15
- 9.2) LCS/LCSD Summary 16
- 9.3) Method Blank Summary 22
- 9.4) GS/MS Tune Summary 24
- 9.5) Internal Standard Area and RT Summary 28

10) Sample Data 32

- 10.1) P001-TW1-251023-01 33
- 10.2) P001-TW2-251023-01 58
- 10.3) P001-TW3-251023-01 70
- 10.4) P001-TW4-251023-01 92

11) Calibration Data Summary 118

- 11.1) Initial Calibration Data 119
  - 11.1.1) VN102325 119
  - 11.1.2) VY100725 489
- 11.2) Continued Calibration Data 863
  - 11.2.1) VN088173.D 863
  - 11.2.2) VY023647.D 923

12) QC Sample Data 983

- 12.1) Tune Raw Data 984
- 12.2) Method Blank Data 990
- 12.3) LCS Data 1014
- 12.4) LCSD Data 1122

13) Manual Integration 1176

14) Analytical Runlogs 1182

15) Percent Solid 1192

16) Standard Prep Logs 1196

17) VOC Preservation Log 1291
18) Shipping Document 1292
18.1) Chain Of Custody 1293
18.2) Lab Certificate 1298
18.3) Internal COC 1299

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

Cover Page

Order ID : Q3447

Project ID : RFP 905

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
Q3447-01	P001-TW1-251023-01
Q3447-02	P001-TW1-251023-01
Q3447-03	P001-TW2-251023-01
Q3447-04	P001-TW2-251023-01
Q3447-05	P001-TW3-251023-01
Q3447-06	P001-TW3-251023-01
Q3447-07	P001-TW4-251023-01
Q3447-08	P001-TW4-251023-01

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 9:11 am, Nov 06, 2025

Date: 11/5/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 905
Project # N/A
Order ID # Q3447
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 10/23/2025.
B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-TCLVOA-10 was based on method 8260D.

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

The RPD for {VY1103SBSD01} with File ID: VY023650.D met criteria except for Methyl Acetate[22%] due to difference in results of BS and BSD.
The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate for {VY1103SBSD01} with File ID: VY023650.D met requirements for all compounds except for 2-Butanone[140%] is failing high but no positive hit in associate sample therefore no corrective action taken.

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

The Continuous Calibration File ID VN088173.D met the requirements except for 2-Hexanone is failing high but no positive hit in associate sample therefore no corrective action taken.

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The Continuous Calibration File ID VY023647.D met the requirements except for Isopropylbenzene and Methyl Acetate are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

Samples P001-TW1-251023-01, P001-TW3-251023-01 and P001-TW4-251023-01 were analyzed at straight medium level ,as samples looks bad as we extract from methanol vial.

E. Calculation:
Low Level Soil Calculation in ug/Kg dry weight basis

$$\frac{(A_x)(I_s)(Df)}{(A_{is})(RRF)(Ws)(D)}$$

Where
Ax = Area for the compound to be measured
Ais = Area for the specific internal standard
Is = Amount of internal standard added in nanograms (ng)
RRF = Relative response factor of the initial calibration curve standard.
Df = Dilution factor
Ws= Weight of sample

$$D = \frac{100 - \%moisture}{100}$$

F. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.
The soil samples results are based on a dry weight basis.

G. 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 APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:13 am, Nov 06, 2025

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3447 MATRIX: Solid

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 VN088173.D met the requirements except for 2-Hexanone is failing high but no positive hit in associate sample therefore no corrective action taken. The Continuous Calibration File ID VY023647.D met the requirements except for Isopropylbenzene and Methyl Acetate are 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.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all compounds. The Blank Spike Duplicate for {VY1103SBSD01} with File ID: VY023650.D met requirements for all compounds except for 2-Butanone[140%] is failing high but no positive hit in associate sample therefore no corrective action taken. The RPD for {VY1103SBSD01} with File ID: VY023650.D met criteria except for Methyl Acetate[22%] due to difference in results of BS and BSD.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓

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

		NA	NO	YES
10.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

The soil samples results are based on a dry weight basis.

QA REVIEW

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 9:13 am, Nov 06, 2025

Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3447

	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:** 11/05/2025

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LAB CHRONICLE

OrderID:	Q3447	**OrderDate:**	10/23/2025 1:50:00 PM
Client:	Weston Solutions, Inc.	**Project:**	RFP 905
Contact:	Smita Sumbaly	**Location:**	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3447-01	**P001-TW1-251023-01**	**SOIL**			**10/23/25**			**10/23/25**
			VOC-TCLVOA-10	8260D			10/31/25	
Q3447-02	**P001-TW1-251023-01**	**TCLP**			**10/23/25**			**10/23/25**
			TCLP VOA	8260D			10/27/25	
Q3447-03	**P001-TW2-251023-01**	**SOIL**			**10/23/25**			**10/23/25**
			VOC-TCLVOA-10	8260D			11/03/25	
Q3447-04	**P001-TW2-251023-01**	**TCLP**			**10/23/25**			**10/23/25**
			TCLP VOA	8260D			10/27/25	
Q3447-05	**P001-TW3-251023-01**	**SOIL**			**10/23/25**			**10/23/25**
			VOC-TCLVOA-10	8260D			10/31/25	
Q3447-06	**P001-TW3-251023-01**	**TCLP**			**10/23/25**			**10/23/25**
			TCLP VOA	8260D			10/27/25	
Q3447-07	**P001-TW4-251023-01**	**SOIL**			**10/23/25**			**10/23/25**
			VOC-TCLVOA-10	8260D			10/31/25	
Q3447-08	**P001-TW4-251023-01**	**TCLP**			**10/23/25**			**10/23/25**
			TCLP VOA	8260D			10/27/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3447

Client: Weston Solutions, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**P001-TW1-251023-01**								
Q3447-01	P001-TW1-251023-	SOIL	Acetone		980	J	720	3800	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	Carbon Disulfide		190	J	160	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	Methyl Acetate		2000		230	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	Cyclohexane		3400		120	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	Methylcyclohexane		7000		140	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	Benzene		560	J	120	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	Toluene		4400		120	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	Ethyl Benzene		2700		100	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	m/p-Xylenes		10800		190	1500	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	o-Xylene		5300		120	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	Isopropylbenzene		800		120	760	ug/Kg
			Total Voc :		38100				
Q3447-01	P001-TW1-251023-	SOIL	1-Phenyl-1-butene	*	110000	J	0	0	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	1H-Indene, 2,3-dihydro-5-meth	*	43500	J	0	0	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	1H-Indene, 2,3-dihydro-4,7-din	*	42700	J	0	0	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	Benzene, (2-methyl-1-butenyl)-	*	83900	J	0	0	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	n-propylbenzene	*	1500	J	110	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	1,3,5-Trimethylbenzene	*	4400	J	120	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	1,2,4-Trimethylbenzene	*	15700	J	97.3	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	sec-Butylbenzene	*	580	J	100	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	p-Isopropyltoluene	*	2100	J	94.2	760	ug/Kg
Q3447-01	P001-TW1-251023-	SOIL	n-Butylbenzene	*	2000	J	220	760	ug/Kg
			Total Tics :		306000				
			Total Concentration:		344000				
Client ID:	**P001-TW3-251023-01**								
Q3447-05	P001-TW3-251023-	SOIL	Acetone		2300	J	480	2600	ug/Kg
Q3447-05	P001-TW3-251023-	SOIL	Methyl Acetate		1500		160	510	ug/Kg
Q3447-05	P001-TW3-251023-	SOIL	Benzene		190	J	80.8	510	ug/Kg
Q3447-05	P001-TW3-251023-	SOIL	Toluene		1000		79.8	510	ug/Kg
Q3447-05	P001-TW3-251023-	SOIL	Ethyl Benzene		240	J	68.5	510	ug/Kg
			Total Voc :		5230				
Q3447-05	P001-TW3-251023-	SOIL	Naphthalene, 1,7-dimethyl-	*	6000	J	0	0	ug/Kg
Q3447-05	P001-TW3-251023-	SOIL	Naphthalene, 1,3-dimethyl-	*	1800	J	0	0	ug/Kg
Q3447-05	P001-TW3-251023-	SOIL	Naphthalene, 1,6-dimethyl-	*	3500	J	0	0	ug/Kg
Q3447-05	P001-TW3-251023-	SOIL	Naphthalene, 2,3-dimethyl-	*	7200	J	0	0	ug/Kg
Q3447-05	P001-TW3-251023-	SOIL	Naphthalene, 2,7-dimethyl-	*	2300	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q3447

Client: Weston Solutions, Inc.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q3447-05	P001-TW3-251023-	SOIL	Naphthalene, 2-ethyl-	*	3500	J	0	0	ug/Kg
Q3447-05	P001-TW3-251023-	SOIL	Naphthalene, 2-(1-methylethyl)	*	3000	J	0	0	ug/Kg
Q3447-05	P001-TW3-251023-	SOIL	p-Isopropyltoluene	*	270	J	63.4	510	ug/Kg
			Total Tics :		27600				
			Total Concentration:		32800				
Client ID:	**P001-TW4-251023-01**								
Q3447-07	P001-TW4-251023-	SOIL	Acetone		15200		740	3900	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	Methyl Acetate		3800		240	780	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	2-Butanone		1100	J	1000	3900	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	Toluene		4700		120	780	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	Ethyl Benzene		3200		100	780	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	m/p-Xylenes		870	J	190	1600	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	o-Xylene		330	J	130	780	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	Isopropylbenzene		180	J	120	780	ug/Kg
			Total Voc :		29400				
Q3447-07	P001-TW4-251023-	SOIL	Camphene	*	5200	J	0	0	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	Tricyclo[2.2.1.0(2,6)]heptane, 1	*	1900	J	0	0	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	o-Cymene	*	3800	J	0	0	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	Naphthalene, 1,7-dimethyl-	*	2600	J	0	0	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	Naphthalene, 1,6-dimethyl-	*	2400	J	0	0	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	Benzene, 1-ethyl-4-(1-methylet	*	3800	J	0	0	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	1H-Indene, 2,3-dihydro-1,6-din	*	2600	J	0	0	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	1H-Inden-1-one, 2,3-dihydro-3,	*	1500	J	0	0	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	n-propylbenzene	*	300	J	110	780	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	1,2,4-Trimethylbenzene	*	410	J	99.4	780	ug/Kg
Q3447-07	P001-TW4-251023-	SOIL	p-Isopropyltoluene	*	5800	J	96.3	780	ug/Kg
			Total Tics :		30300				
			Total Concentration:		59700				

QC SUMMARY

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

SDG No.: Q3447

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3447-01	P001-TW1-251023-01	1,2-Dichloroethane-d4	50	58.7	117		63	155
		Dibromofluoromethane	50	50.3	101		70	134
		Toluene-d8	50	50.5	101		74	123
		4-Bromofluorobenzene	50	51.6	103		17	146
Q3447-03	P001-TW2-251023-01	1,2-Dichloroethane-d4	50	53.7	107		63	155
		Dibromofluoromethane	50	50.6	101		70	134
		Toluene-d8	50	48.3	97		74	123
		4-Bromofluorobenzene	50	40.6	81		17	146
Q3447-05	P001-TW3-251023-01	1,2-Dichloroethane-d4	50	64.8	130		63	155
		Dibromofluoromethane	50	50.4	101		70	134
		Toluene-d8	50	50.6	101		74	123
		4-Bromofluorobenzene	50	53.1	106		17	146
Q3447-07	P001-TW4-251023-01	1,2-Dichloroethane-d4	50	61.4	123		63	155
		Dibromofluoromethane	50	49.8	100		70	134
		Toluene-d8	50	49.9	100		74	123
		4-Bromofluorobenzene	50	51.1	102		17	146
VN1031MBL01	VN1031MBL01	1,2-Dichloroethane-d4	50	59.3	119		63	155
		Dibromofluoromethane	50	51.4	103		70	134
		Toluene-d8	50	49.7	99		74	123
		4-Bromofluorobenzene	50	55.0	110		17	146
VN1031MBS01	VN1031MBS01	1,2-Dichloroethane-d4	50	51.8	104		63	155
		Dibromofluoromethane	50	51.0	102		70	134
		Toluene-d8	50	50.1	100		74	123
		4-Bromofluorobenzene	50	51.6	103		17	146
VY1103SBL01	VY1103SBL01	1,2-Dichloroethane-d4	50	58.3	117		63	155
		Dibromofluoromethane	50	51.6	103		70	134
		Toluene-d8	50	49.5	99		74	123
		4-Bromofluorobenzene	50	43.2	86		17	146
VY1103SBS01	VY1103SBS01	1,2-Dichloroethane-d4	50	48.4	97		63	155
		Dibromofluoromethane	50	49.1	98		70	134
		Toluene-d8	50	48.5	97		74	123
		4-Bromofluorobenzene	50	49.3	99		17	146
VY1103SBSD01	VY1103SBSD01	1,2-Dichloroethane-d4	50	49.8	100		63	155
		Dibromofluoromethane	50	50.3	101		70	134
		Toluene-d8	50	48.6	97		74	123
		4-Bromofluorobenzene	50	48.8	97		17	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3447**	**Analytical Method:**	**SW8260D**
Client:	**Weston Solutions, Inc.**	**Datafile :**	VN088176.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1031MBS01	Dichlorodifluoromethane	2000	1800	ug/Kg	90			64	136	
	Chloromethane	2000	1800	ug/Kg	90			52	151	
	Vinyl chloride	2000	1800	ug/Kg	90			56	148	
	Bromomethane	2000	1800	ug/Kg	90			58	141	
	Chloroethane	2000	1700	ug/Kg	85			69	130	
	Trichlorofluoromethane	2000	1700	ug/Kg	85			69	134	
	1,1,2-Trichlorotrifluoroethane	2000	1900	ug/Kg	95			81	123	
	1,1-Dichloroethene	2000	1700	ug/Kg	85			79	121	
	Acetone	10000	9200	ug/Kg	92			40	171	
	Carbon disulfide	2000	1700	ug/Kg	85			59	130	
	Methyl tert-butyl Ether	2000	2000	ug/Kg	100			77	129	
	Methyl Acetate	2000	2100	ug/Kg	105			69	149	
	Methylene Chloride	2000	2000	ug/Kg	100			72	131	
	trans-1,2-Dichloroethene	2000	1800	ug/Kg	90			80	123	
	1,1-Dichloroethane	2000	1900	ug/Kg	95			82	123	
	Cyclohexane	2000	1900	ug/Kg	95			76	122	
	2-Butanone	10000	9800	ug/Kg	98			69	131	
	Carbon Tetrachloride	2000	2000	ug/Kg	100			76	129	
	cis-1,2-Dichloroethene	2000	1800	ug/Kg	90			82	123	
	Bromochloromethane	2000	1800	ug/Kg	90			80	127	
	Chloroform	2000	2000	ug/Kg	100			82	125	
	1,1,1-Trichloroethane	2000	2000	ug/Kg	100			80	126	
	Methylcyclohexane	2000	1800	ug/Kg	90			77	123	
	Benzene	2000	2000	ug/Kg	100			84	121	
	1,2-Dichloroethane	2000	2100	ug/Kg	105			81	126	
	Trichloroethene	2000	2000	ug/Kg	100			83	122	
	1,2-Dichloropropane	2000	2000	ug/Kg	100			83	122	
	Bromodichloromethane	2000	2000	ug/Kg	100			82	123	
	4-Methyl-2-Pentanone	10000	10500	ug/Kg	105			70	135	
	Toluene	2000	2000	ug/Kg	100			83	122	
	t-1,3-Dichloropropene	2000	2000	ug/Kg	100			78	124	
	cis-1,3-Dichloropropene	2000	2100	ug/Kg	105			81	122	
	1,1,2-Trichloroethane	2000	2000	ug/Kg	100			82	125	
	2-Hexanone	10000	10500	ug/Kg	105			66	138	
	Dibromochloromethane	2000	2000	ug/Kg	100			79	125	
	1,2-Dibromoethane	2000	1900	ug/Kg	95			80	125	
	Tetrachloroethene	2000	2000	ug/Kg	100			83	125	
	Chlorobenzene	2000	2000	ug/Kg	100			84	122	
	Ethyl Benzene	2000	2100	ug/Kg	105			82	124	
	m/p-Xylenes	4000	4000	ug/Kg	100			83	124	
	o-Xylene	2000	2100	ug/Kg	105			83	123	
	Styrene	2000	2100	ug/Kg	105			82	124	
	Bromoform	2000	2000	ug/Kg	100			75	127	
	Isopropylbenzene	2000	2100	ug/Kg	105			82	124	
	1,1,2,2-Tetrachloroethane	2000	2000	ug/Kg	100			77	127	
	1,3-Dichlorobenzene	2000	2100	ug/Kg	105			83	122	
	1,4-Dichlorobenzene	2000	2000	ug/Kg	100			84	121	
	1,2-Dichlorobenzene	2000	2000	ug/Kg	100			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3447 **Analytical Method:** SW8260D

Client: Weston Solutions, Inc. **Datafile :** VN088176.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VN1031MBS01	1,2-Dibromo-3-Chloropropane	2000	2000	ug/Kg	100			66	134	
	1,2,4-Trichlorobenzene	2000	1900	ug/Kg	95			78	127	
	1,2,3-Trichlorobenzene	2000	1800	ug/Kg	90			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3447**	**Analytical Method:**	**SW8260D**
Client:	**Weston Solutions, Inc.**	**Datafile :**	VY023649.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1103SBS01	Dichlorodifluoromethane	20	19.3	ug/Kg	97			64	136	
	Chloromethane	20	18.3	ug/Kg	92			52	151	
	Vinyl chloride	20	18.9	ug/Kg	95			56	148	
	Bromomethane	20	19.6	ug/Kg	98			58	141	
	Chloroethane	20	19.7	ug/Kg	99			69	130	
	Trichlorofluoromethane	20	20.4	ug/Kg	102			69	134	
	1,1,2-Trichlorotrifluoroethane	20	22.2	ug/Kg	111			81	123	
	1,1-Dichloroethene	20	21.2	ug/Kg	106			79	121	
	Acetone	100	140	ug/Kg	140			40	171	
	Carbon disulfide	20	19.2	ug/Kg	96			59	130	
	Methyl tert-butyl Ether	20	20.8	ug/Kg	104			77	129	
	Methyl Acetate	20	18.4	ug/Kg	92			69	149	
	Methylene Chloride	20	19.2	ug/Kg	96			72	131	
	trans-1,2-Dichloroethene	20	21.2	ug/Kg	106			80	123	
	1,1-Dichloroethane	20	21.8	ug/Kg	109			82	123	
	Cyclohexane	20	20.2	ug/Kg	101			76	122	
	2-Butanone	100	120	ug/Kg	120			69	131	
	Carbon Tetrachloride	20	21.9	ug/Kg	110			76	129	
	cis-1,2-Dichloroethene	20	21.7	ug/Kg	109			82	123	
	Bromochloromethane	20	21.6	ug/Kg	108			80	127	
	Chloroform	20	22.2	ug/Kg	111			82	125	
	1,1,1-Trichloroethane	20	22.3	ug/Kg	112			80	126	
	Methylcyclohexane	20	20.8	ug/Kg	104			77	123	
	Benzene	20	21.7	ug/Kg	109			84	121	
	1,2-Dichloroethane	20	21.1	ug/Kg	106			81	126	
	Trichloroethene	20	21.4	ug/Kg	107			83	122	
	1,2-Dichloropropane	20	22.0	ug/Kg	110			83	122	
	Bromodichloromethane	20	21.7	ug/Kg	109			82	123	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			70	135	
	Toluene	20	22.0	ug/Kg	110			83	122	
	t-1,3-Dichloropropene	20	20.8	ug/Kg	104			78	124	
	cis-1,3-Dichloropropene	20	21.5	ug/Kg	108			81	122	
	1,1,2-Trichloroethane	20	21.7	ug/Kg	109			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	21.3	ug/Kg	106			79	125	
	1,2-Dibromoethane	20	21.1	ug/Kg	106			80	125	
	Tetrachloroethene	20	22.4	ug/Kg	112			83	125	
	Chlorobenzene	20	21.6	ug/Kg	108			84	122	
	Ethyl Benzene	20	21.5	ug/Kg	108			82	124	
	m/p-Xylenes	40	43.4	ug/Kg	109			83	124	
	o-Xylene	20	21.0	ug/Kg	105			83	123	
	Styrene	20	21.5	ug/Kg	108			82	124	
	Bromoform	20	20.8	ug/Kg	104			75	127	
	Isopropylbenzene	20	22.1	ug/Kg	111			82	124	
	1,1,2,2-Tetrachloroethane	20	20.8	ug/Kg	104			77	127	
	1,3-Dichlorobenzene	20	21.2	ug/Kg	106			83	122	
	1,4-Dichlorobenzene	20	21.1	ug/Kg	106			84	121	
	1,2-Dichlorobenzene	20	21.3	ug/Kg	106			83	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3447**	**Analytical Method:**	**SW8260D**
Client:	**Weston Solutions, Inc.**	**Datafile :**	VY023649.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1103SBS01	1,2-Dibromo-3-Chloropropane	20	19.5	ug/Kg	98			66	134	
	1,2,4-Trichlorobenzene	20	18.5	ug/Kg	93			78	127	
	1,2,3-Trichlorobenzene	20	18.4	ug/Kg	92			70	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3447 **Analytical Method:** SW8260D

Client: Weston Solutions, Inc. **Datafile :** VY023650.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1103SBSD01	Dichlorodifluoromethane	20	20.1	ug/Kg	101	4		64	136	20
	Chloromethane	20	19.2	ug/Kg	96	4		52	151	20
	Vinyl chloride	20	19.7	ug/Kg	99	4		56	148	20
	Bromomethane	20	20.4	ug/Kg	102	4		58	141	20
	Chloroethane	20	21.1	ug/Kg	106	7		69	130	20
	Trichlorofluoromethane	20	21.4	ug/Kg	107	5		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	23.0	ug/Kg	115	4		81	123	20
	1,1-Dichloroethene	20	22.1	ug/Kg	111	5		79	121	20
	Acetone	100	150	ug/Kg	150	7		40	171	20
	Carbon disulfide	20	20.0	ug/Kg	100	4		59	130	20
	Methyl tert-butyl Ether	20	23.0	ug/Kg	115	10		77	129	20
	Methyl Acetate	20	23.0	ug/Kg	115	22	*	69	149	20
	Methylene Chloride	20	20.8	ug/Kg	104	8		72	131	20
	trans-1,2-Dichloroethene	20	22.4	ug/Kg	112	6		80	123	20
	1,1-Dichloroethane	20	23.5	ug/Kg	117	7		82	123	20
	Cyclohexane	20	21.3	ug/Kg	106	5		76	122	20
	2-Butanone	100	140	ug/Kg	140	15	*	69	131	20
	Carbon Tetrachloride	20	22.7	ug/Kg	114	4		76	129	20
	cis-1,2-Dichloroethene	20	23.0	ug/Kg	115	5		82	123	20
	Bromochloromethane	20	23.1	ug/Kg	116	7		80	127	20
	Chloroform	20	23.6	ug/Kg	118	6		82	125	20
	1,1,1-Trichloroethane	20	23.4	ug/Kg	117	4		80	126	20
	Methylcyclohexane	20	21.3	ug/Kg	106	2		77	123	20
	Benzene	20	23.0	ug/Kg	115	5		84	121	20
	1,2-Dichloroethane	20	22.9	ug/Kg	115	8		81	126	20
	Trichloroethene	20	22.3	ug/Kg	112	5		83	122	20
	1,2-Dichloropropane	20	23.7	ug/Kg	119	8		83	122	20
	Bromodichloromethane	20	23.6	ug/Kg	118	8		82	123	20
	4-Methyl-2-Pentanone	100	120	ug/Kg	120	18		70	135	20
	Toluene	20	23.3	ug/Kg	117	6		83	122	20
	t-1,3-Dichloropropene	20	22.5	ug/Kg	113	8		78	124	20
	cis-1,3-Dichloropropene	20	22.9	ug/Kg	115	6		81	122	20
	1,1,2-Trichloroethane	20	23.7	ug/Kg	119	9		82	125	20
	2-Hexanone	100	130	ug/Kg	130	17		66	138	20
	Dibromochloromethane	20	23.3	ug/Kg	117	10		79	125	20
	1,2-Dibromoethane	20	22.8	ug/Kg	114	7		80	125	20
	Tetrachloroethene	20	23.6	ug/Kg	118	5		83	125	20
	Chlorobenzene	20	22.8	ug/Kg	114	5		84	122	20
	Ethyl Benzene	20	23.1	ug/Kg	116	7		82	124	20
	m/p-Xylenes	40	46.3	ug/Kg	116	6		83	124	20
	o-Xylene	20	22.9	ug/Kg	115	9		83	123	20
	Styrene	20	23.0	ug/Kg	115	6		82	124	20
	Bromoform	20	22.9	ug/Kg	115	10		75	127	20
	Isopropylbenzene	20	23.4	ug/Kg	117	5		82	124	20
	1,1,2,2-Tetrachloroethane	20	23.3	ug/Kg	117	12		77	127	20
	1,3-Dichlorobenzene	20	22.7	ug/Kg	114	7		83	122	20
	1,4-Dichlorobenzene	20	22.4	ug/Kg	112	6		84	121	20
	1,2-Dichlorobenzene	20	22.9	ug/Kg	115	8		83	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3447**	**Analytical Method:**	**SW8260D**
Client:	**Weston Solutions, Inc.**	**Datafile :**	VY023650.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1103SBSD01	1,2-Dibromo-3-Chloropropane	20	22.5	ug/Kg	113	14		66	134	20
	1,2,4-Trichlorobenzene	20	21.4	ug/Kg	107	14		78	127	20
	1,2,3-Trichlorobenzene	20	21.5	ug/Kg	108	16		70	137	20

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VOLATILE METHOD BLANK SUMMARY

Client ID: VN1031MBL01

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG NO.: Q3447

Lab File ID: VN088174.D Lab Sample ID: VN1031MBL01

Date Analyzed: 10/31/2025 Time Analyzed: 09:53

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
VN1031MBS01	VN1031MBS01	VN088176.D	10/31/2025
P001-TW1-251023-01	Q3447-01	VN088183.D	10/31/2025
P001-TW3-251023-01	Q3447-05	VN088185.D	10/31/2025
P001-TW4-251023-01	Q3447-07	VN088186.D	10/31/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

Client ID: VY1103SBL01

Lab Name: Alliance | Contract: ROYF02

Lab Code: ACE | SDG NO.: Q3447

Lab File ID: VY023648.D | Lab Sample ID: VY1103SBL01

Date Analyzed: 11/03/2025 | Time Analyzed: 10:38

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

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1103SBS01	VY1103SBS01	VY023649.D	11/03/2025
VY1103SBSD01	VY1103SBSD01	VY023650.D	11/03/2025
P001-TW2-251023-01	Q3447-03	VY023654.D	11/03/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: ROYF02

Lab Code: ACE | SDG NO.: Q3447

Lab File ID: VN088077.D | BFB Injection Date: 10/23/2025

Instrument ID: MSVOA_N | BFB Injection Time: 09:09

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	21.7
75	30.0 - 60.0% of mass 95	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (0.6) 1
174	50.0 - 100.0% of mass 95	64.7
175	5.0 - 9.0% of mass 174	5.8 (8.9) 1
176	95.0 - 101.0% of mass 174	62.6 (96.8) 1
177	5.0 - 9.0% of mass 176	4.5 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC001	VSTDICC001	VN088078.D	10/23/2025	09:42
VSTDICC005	VSTDICC005	VN088079.D	10/23/2025	10:38
VSTDICC020	VSTDICC020	VN088080.D	10/23/2025	10:59
VSTDICCC050	VSTDICCC050	VN088081.D	10/23/2025	11:20
VSTDICC100	VSTDICC100	VN088082.D	10/23/2025	11:41
VSTDICC150	VSTDICC150	VN088083.D	10/23/2025	12:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: ROYF02
Lab Code: ACE
SDG NO.: Q3447
Lab File ID: VN088172.D
BFB Injection Date: 10/31/2025
Instrument ID: MSVOA_N
BFB Injection Time: 08:08
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	22.9
75	30.0 - 60.0% of mass 95	57.3
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	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	64.4
175	5.0 - 9.0% of mass 174	5 (7.7) 1
176	95.0 - 101.0% of mass 174	64.1 (99.5) 1
177	5.0 - 9.0% of mass 176	3.7 (5.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN088173.D	10/31/2025	09:18
VN1031MBL01	VN1031MBL01	VN088174.D	10/31/2025	09:53
VN1031MBS01	VN1031MBS01	VN088176.D	10/31/2025	10:40
P001-TW1-251023-01	Q3447-01	VN088183.D	10/31/2025	13:19
P001-TW3-251023-01	Q3447-05	VN088185.D	10/31/2025	14:00
P001-TW4-251023-01	Q3447-07	VN088186.D	10/31/2025	14:21

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: ROYF02

Lab Code: ACE | SDG NO.: Q3447

Lab File ID: VY023383.D | BFB Injection Date: 10/07/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 08:43

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.9
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.9 (0.9) 1
174	50.0 - 100.0% of mass 95	99.1
175	5.0 - 9.0% of mass 174	7.3 (7.4) 1
176	95.0 - 101.0% of mass 174	95.4 (96.2) 1
177	5.0 - 9.0% of mass 176	6.3 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VY023384.D	10/07/2025	09:17
VSTDICC010	VSTDICC010	VY023385.D	10/07/2025	10:02
VSTDICC020	VSTDICC020	VY023386.D	10/07/2025	11:24
VSTDICCC050	VSTDICCC050	VY023387.D	10/07/2025	11:47
VSTDICC100	VSTDICC100	VY023388.D	10/07/2025	12:09
VSTDICC150	VSTDICC150	VY023389.D	10/07/2025	12:32

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: ROYF02

Lab Code: ACE | SDG NO.: Q3447

Lab File ID: VY023646.D | BFB Injection Date: 11/03/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 08:54

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.4
75	30.0 - 60.0% of mass 95	48.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1 (1) 1
174	50.0 - 100.0% of mass 95	99.4
175	5.0 - 9.0% of mass 174	7.3 (7.4) 1
176	95.0 - 101.0% of mass 174	96.7 (97.2) 1
177	5.0 - 9.0% of mass 176	6.2 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY023647.D	11/03/2025	09:25
VY1103SBL01	VY1103SBL01	VY023648.D	11/03/2025	10:38
VY1103SBS01	VY1103SBS01	VY023649.D	11/03/2025	11:08
VY1103SBSD01	VY1103SBSD01	VY023650.D	11/03/2025	11:30
P001-TW2-251023-01	Q3447-03	VY023654.D	11/03/2025	13:26

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG NO.: Q3447

Lab File ID: VN088173.D Date Analyzed: 10/31/2025

Instrument ID: MSVOA_N Time Analyzed: 09:18

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	300377	8.21	578571	9.08	509730	11.84
UPPER LIMIT	600754	8.706	1157140	9.583	1019460	12.341
LOWER LIMIT	150189	7.706	289286	8.583	254865	11.341
EPA SAMPLE NO.						
P001-TW1-251023-01	228030	8.20	515714	9.08	480366	11.84
P001-TW3-251023-01	274616	8.20	633049	9.08	586791	11.84
P001-TW4-251023-01	273190	8.20	616897	9.08	566365	11.85
VN1031MBL01	249193	8.21	562998	9.08	537203	11.84
VN1031MBS01	365900	8.21	658623	9.08	570292	11.85

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.

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Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG NO.: Q3447

Lab File ID: VN088173.D Date Analyzed: 10/31/2025

Instrument ID: MSVOA_N Time Analyzed: 09:18

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

	IS4 AREA #	RT #				
12 HOUR STD	249740	13.77				
UPPER LIMIT	499480	14.27				
LOWER LIMIT	124870	13.27				
EPA SAMPLE NO.						
P001-TW1-251023-01	245335	13.77				
P001-TW3-251023-01	297155	13.77				
P001-TW4-251023-01	278512	13.77				
VN1031MBL01	258761	13.77				
VN1031MBS01	276898	13.77				

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,
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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG NO.: Q3447

Lab File ID: VY023647.D Date Analyzed: 11/03/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:25

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

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	496628	7.71	715866	8.62	628292	11.41
UPPER LIMIT	993256	8.207	1431730	9.116	1256580	11.914
LOWER LIMIT	248314	7.207	357933	8.116	314146	10.914
EPA SAMPLE NO.						
P001-TW2-251023-01	785311	7.71	1293197	8.62	1057990	11.41
VY1103SBL01	759655	7.71	1277366	8.62	1087348	11.42
VY1103SBS01	481322	7.71	711663	8.62	618924	11.41
VY1103SBSD01	459130	7.71	683030	8.62	592788	11.41

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,
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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG NO.: Q3447

Lab File ID: VY023647.D Date Analyzed: 11/03/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:25

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

	IS4 AREA #	RT #				
12 HOUR STD	317717	13.347				
UPPER LIMIT	635434	13.847				
LOWER LIMIT	158859	12.847				
EPA SAMPLE NO.						
P001-TW2-251023-01	399077	13.35				
VY1103SBL01	440158	13.35				
VY1103SBS01	321134	13.35				
VY1103SBSD01	309437	13.35				

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:	Weston Solutions, Inc.		Date Collected:	10/23/25	
Project:	RFP 905		Date Received:	10/23/25	
Client Sample ID:	P001-TW1-251023-01		SDG No.:	Q3447	
Lab Sample ID:	Q3447-01	Soil Aliquot Vol: 100 uL	Matrix:	SOIL	
Analytical Method:	8260D	Level: MED	% Solid:	100	
Sample Wt/Vol:	3.29 g	Final Vol: 10000 uL	Test:	VOC-TCLVOA-10	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	170	U	1	170	760	ug/Kg	10/31/25 13:19	VN103125
74-87-3	Chloromethane	170	U	1	170	760	ug/Kg	10/31/25 13:19	VN103125
75-01-4	Vinyl Chloride	120	U	1	120	760	ug/Kg	10/31/25 13:19	VN103125
74-83-9	Bromomethane	160	U	1	160	760	ug/Kg	10/31/25 13:19	VN103125
75-00-3	Chloroethane	190	U	1	190	760	ug/Kg	10/31/25 13:19	VN103125
75-69-4	Trichlorofluoromethane	180	U	1	180	760	ug/Kg	10/31/25 13:19	VN103125
76-13-1	1,1,2-Trichlorotrifluoroethane	160	U	1	160	760	ug/Kg	10/31/25 13:19	VN103125
75-35-4	1,1-Dichloroethene	150	U	1	150	760	ug/Kg	10/31/25 13:19	VN103125
67-64-1	Acetone	980	J	1	720	3800	ug/Kg	10/31/25 13:19	VN103125
75-15-0	Carbon Disulfide	190	J	1	160	760	ug/Kg	10/31/25 13:19	VN103125
1634-04-4	Methyl tert-butyl Ether	110	U	1	110	760	ug/Kg	10/31/25 13:19	VN103125
79-20-9	Methyl Acetate	2000		1	230	760	ug/Kg	10/31/25 13:19	VN103125
75-09-2	Methylene Chloride	540	U	1	540	1500	ug/Kg	10/31/25 13:19	VN103125
156-60-5	trans-1,2-Dichloroethene	130	U	1	130	760	ug/Kg	10/31/25 13:19	VN103125
75-34-3	1,1-Dichloroethane	120	U	1	120	760	ug/Kg	10/31/25 13:19	VN103125
110-82-7	Cyclohexane	3400		1	120	760	ug/Kg	10/31/25 13:19	VN103125
78-93-3	2-Butanone	990	U	1	990	3800	ug/Kg	10/31/25 13:19	VN103125
56-23-5	Carbon Tetrachloride	150	U	1	150	760	ug/Kg	10/31/25 13:19	VN103125
156-59-2	cis-1,2-Dichloroethene	110	U	1	110	760	ug/Kg	10/31/25 13:19	VN103125
74-97-5	Bromochloromethane	170	U	1	170	760	ug/Kg	10/31/25 13:19	VN103125
67-66-3	Chloroform	130	U	1	130	760	ug/Kg	10/31/25 13:19	VN103125
71-55-6	1,1,1-Trichloroethane	140	U	1	140	760	ug/Kg	10/31/25 13:19	VN103125
108-87-2	Methylcyclohexane	7000		1	140	760	ug/Kg	10/31/25 13:19	VN103125
71-43-2	Benzene	560	J	1	120	760	ug/Kg	10/31/25 13:19	VN103125
107-06-2	1,2-Dichloroethane	120	U	1	120	760	ug/Kg	10/31/25 13:19	VN103125
79-01-6	Trichloroethene	120	U	1	120	760	ug/Kg	10/31/25 13:19	VN103125
78-87-5	1,2-Dichloropropane	140	U	1	140	760	ug/Kg	10/31/25 13:19	VN103125
75-27-4	Bromodichloromethane	120	U	1	120	760	ug/Kg	10/31/25 13:19	VN103125
108-10-1	4-Methyl-2-Pentanone	540	U	1	540	3800	ug/Kg	10/31/25 13:19	VN103125
108-88-3	Toluene	4400		1	120	760	ug/Kg	10/31/25 13:19	VN103125
10061-02-6	t-1,3-Dichloropropene	98.8	U	1	98.8	760	ug/Kg	10/31/25 13:19	VN103125
10061-01-5	cis-1,3-Dichloropropene	94.2	U	1	94.2	760	ug/Kg	10/31/25 13:19	VN103125
79-00-5	1,1,2-Trichloroethane	140	U	1	140	760	ug/Kg	10/31/25 13:19	VN103125
591-78-6	2-Hexanone	560	U	1	560	3800	ug/Kg	10/31/25 13:19	VN103125
124-48-1	Dibromochloromethane	130	U	1	130	760	ug/Kg	10/31/25 13:19	VN103125
106-93-4	1,2-Dibromoethane	130	U	1	130	760	ug/Kg	10/31/25 13:19	VN103125
127-18-4	Tetrachloroethene	160	U	1	160	760	ug/Kg	10/31/25 13:19	VN103125
108-90-7	Chlorobenzene	140	U	1	140	760	ug/Kg	10/31/25 13:19	VN103125
100-41-4	Ethyl Benzene	2700		1	100	760	ug/Kg	10/31/25 13:19	VN103125
179601-23-1	m/p-Xylenes	10800		1	190	1500	ug/Kg	10/31/25 13:19	VN103125
95-47-6	o-Xylene	5300		1	120	760	ug/Kg	10/31/25 13:19	VN103125
100-42-5	Styrene	110	U	1	110	760	ug/Kg	10/31/25 13:19	VN103125
75-25-2	Bromoform	130	U	1	130	760	ug/Kg	10/31/25 13:19	VN103125

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	10/23/25
Project:	RFP 905			Date Received:	10/23/25
Client Sample ID:	P001-TW1-251023-01			SDG No.:	Q3447
Lab Sample ID:	Q3447-01	Soil Aliquot Vol: 100 uL		Matrix:	SOIL
Analytical Method:	8260D	Level: MED		% Solid:	100
Sample Wt/Vol:	3.29 g	Final Vol: 10000 uL		Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	800		1	120	760	ug/Kg	10/31/25 13:19	VN103125
79-34-5	1,1,2,2-Tetrachloroethane	180	U	1	180	760	ug/Kg	10/31/25 13:19	VN103125
541-73-1	1,3-Dichlorobenzene	260	U	1	260	760	ug/Kg	10/31/25 13:19	VN103125
106-46-7	1,4-Dichlorobenzene	240	U	1	240	760	ug/Kg	10/31/25 13:19	VN103125
95-50-1	1,2-Dichlorobenzene	220	U	1	220	760	ug/Kg	10/31/25 13:19	VN103125
96-12-8	1,2-Dibromo-3-Chloropropane	280	U	1	280	760	ug/Kg	10/31/25 13:19	VN103125
120-82-1	1,2,4-Trichlorobenzene	450	U	1	450	760	ug/Kg	10/31/25 13:19	VN103125
87-61-6	1,2,3-Trichlorobenzene	480	U	1	480	760	ug/Kg	10/31/25 13:19	VN103125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	58.7			63 - 155	117%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.3			70 - 134	101%	SPK: 50		
2037-26-5	Toluene-d8	50.5			74 - 123	101%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.6			17 - 146	103%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	228000							
540-36-3	1,4-Difluorobenzene	516000							
3114-55-4	Chlorobenzene-d5	480000							
3855-82-1	1,4-Dichlorobenzene-d4	245000							
TENTATIVE IDENTIFIED COMPOUNDS									
103-65-1	n-propylbenzene	1500	J			13.0	ug/Kg		
108-67-8	1,3,5-Trimethylbenzene	4400	J			13.2	ug/Kg		
95-63-6	1,2,4-Trimethylbenzene	15700	J			13.5	ug/Kg		
135-98-8	sec-Butylbenzene	580	J			13.6	ug/Kg		
99-87-6	p-Isopropyltoluene	2100	J			13.7	ug/Kg		
104-51-8	n-Butylbenzene	2000	J			14.0	ug/Kg		
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	43500	J			14.9	ug/Kg		
000824-90-8	1-Phenyl-1-butene	110000	J			15.0	ug/Kg		
056253-64-6	Benzene, (2-methyl-1-butenyl)-	83900	J			15.4	ug/Kg		
006682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethy	42700	J			15.9	ug/Kg		

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\VN103125\
Data File : VN088183.D
Acq On : 31 Oct 2025 13:19
Operator : JC\MD
Sample : Q3447-01
Misc : 3.29g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 01 00:31:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.200	168	228030	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	515714	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	480366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	245335	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	231568	58.727	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.460%			
35) Dibromofluoromethane	8.147	113	174376	50.331	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.660%			
50) Toluene-d8	10.541	98	674351	50.514	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.020%			
62) 4-Bromofluorobenzene	12.829	95	243353	51.617	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.240%			
Target Compounds						Qvalue
16) Acetone	4.436	43	12805m	6.464	ug/l	
17) Carbon Disulfide	4.689	76	11117	1.276	ug/l #	94
18) Methyl Acetate	5.018	43	54636	13.472	ug/l	99
31) Cyclohexane	8.236	56	124320	22.524	ug/l #	91
39) Methylcyclohexane	9.577	83	299427	46.049	ug/l	98
40) Benzene	8.583	78	56347	3.657	ug/l	99
52) Toluene	10.606	92	277707	29.237	ug/l	97
67) Ethyl Benzene	11.941	91	344808	18.009	ug/l	99
68) m/p-Xylenes	12.047	106	512034	71.376	ug/l	99
69) o-Xylene	12.376	106	238036	35.003	ug/l	100
73) Isopropylbenzene	12.671	105	100155	5.293	ug/l	97
78) n-propylbenzene	13.012	91	231471	10.024	ug/l	100
80) 1,3,5-Trimethylbenzene	13.153	105	453919	28.885	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	1623716	103.270	ug/l	99
85) sec-Butylbenzene	13.594	105	78904	3.826	ug/l #	63
86) p-Isopropyltoluene	13.706	119	233418	14.108	ug/l	96
89) n-Butylbenzene	14.035	91	210593	12.850	ug/l #	70

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

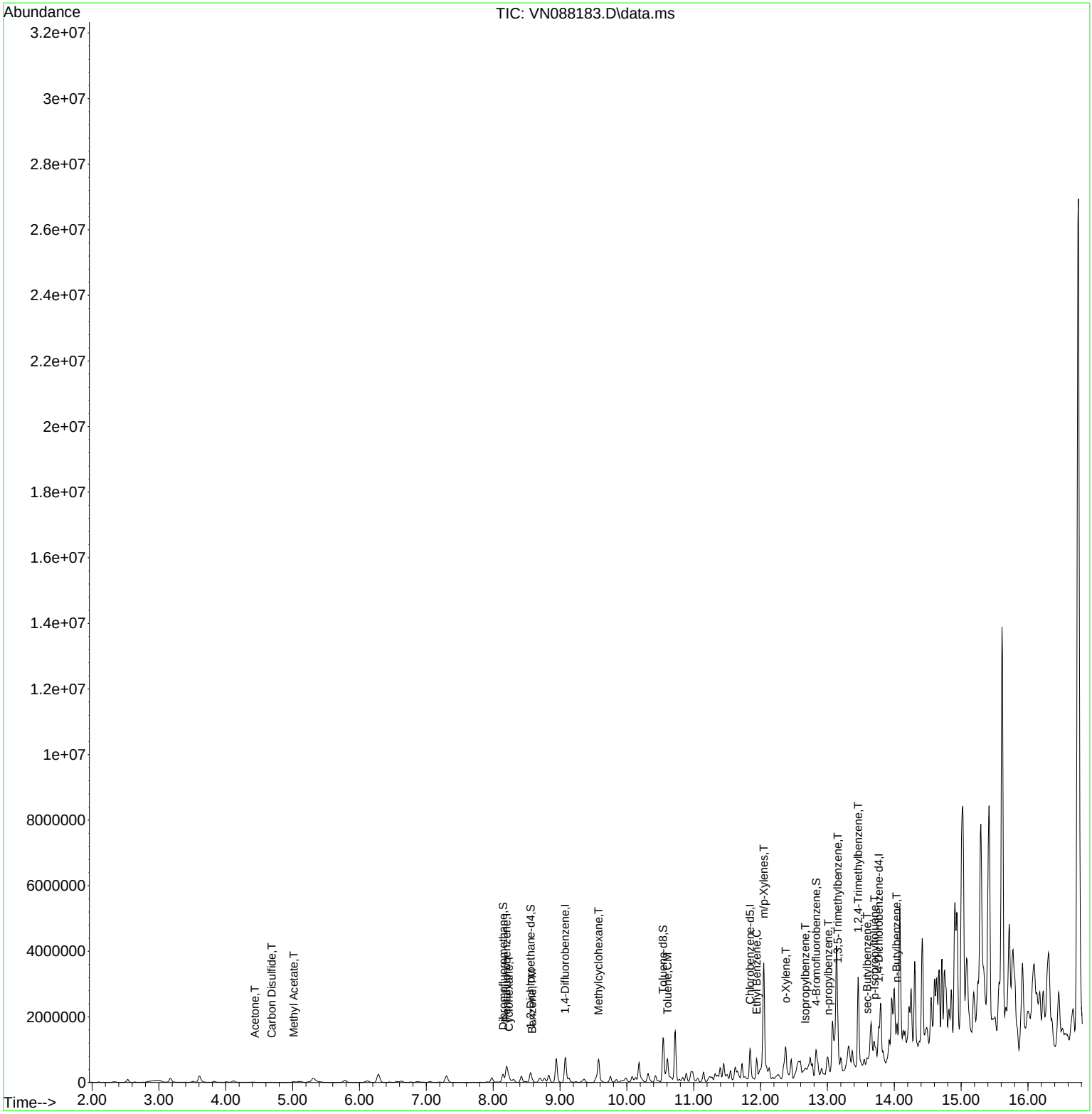
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088183.D
Acq On : 31 Oct 2025 13:19
Operator : JC\MD
Sample : Q3447-01
Misc : 3.29g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 12 Sample Multiplier: 1

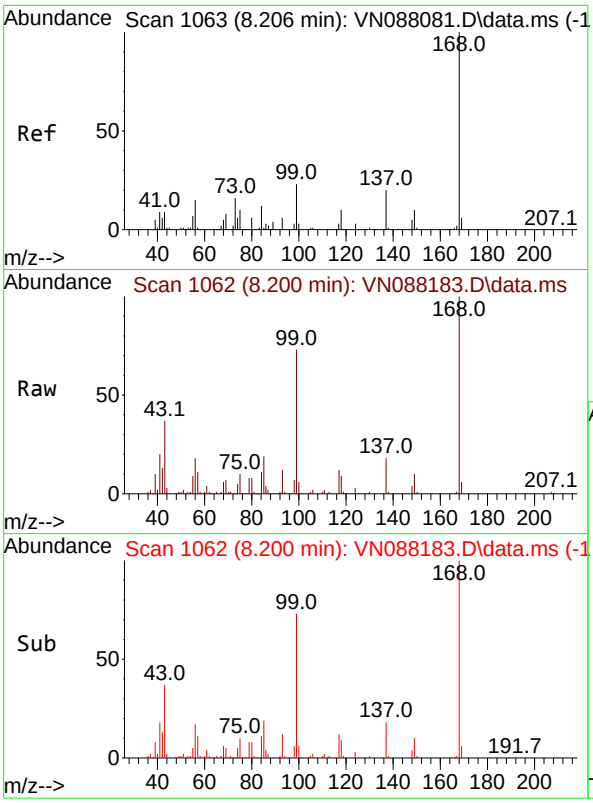
Quant Time: Nov 01 00:31:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

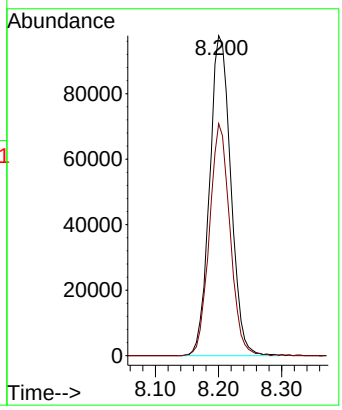




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion:168 Resp: 22803

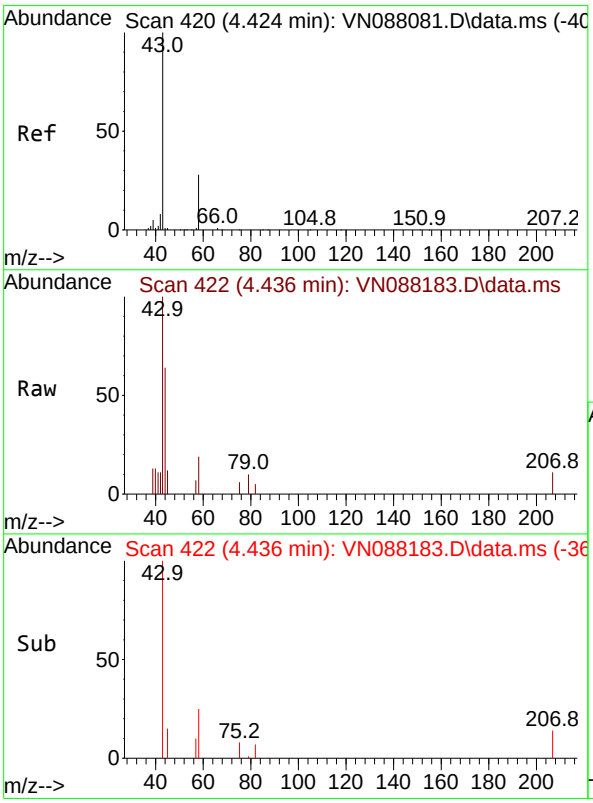
Ion	Ratio	Lower	Upper
168	100		
99	72.5	57.2	85.8



Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Manual Integrations
APPROVED

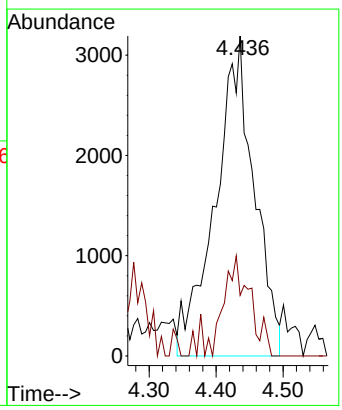
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

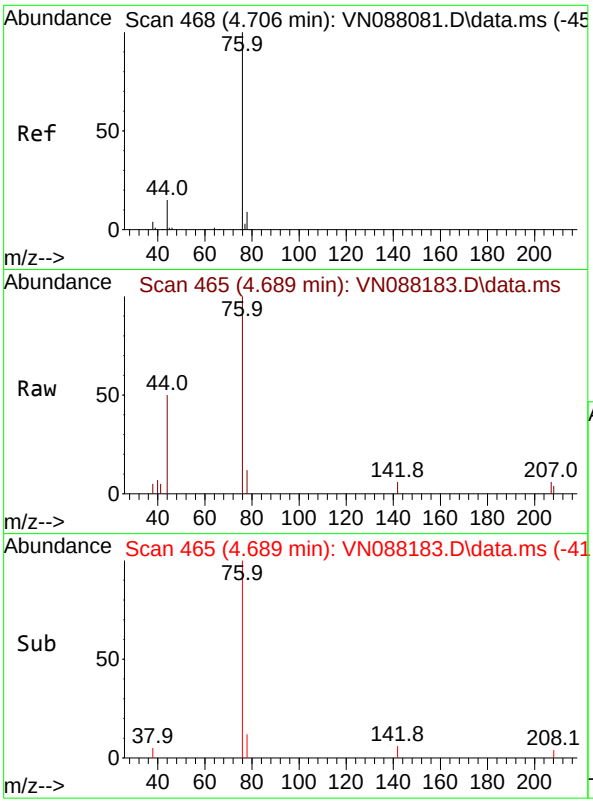


#16
Acetone
Concen: 6.464 ug/l m
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 43 Resp: 12805

Ion	Ratio	Lower	Upper
43	100		
58	18.9	22.6	33.8#

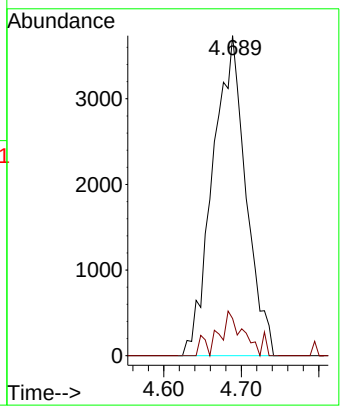




#17
Carbon Disulfide
Concen: 1.276 ug/l
RT: 4.689 min Scan# 4
Delta R.T. -0.012 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 76 Resp: 1111

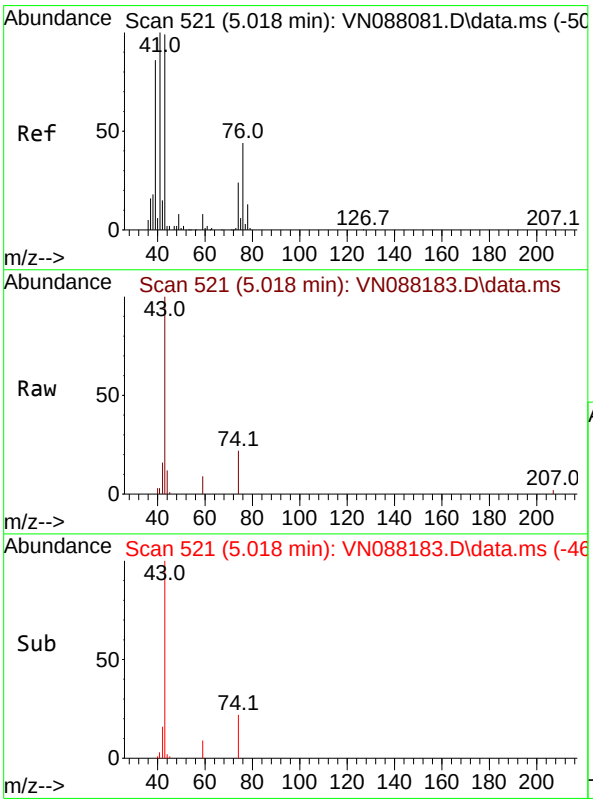
Ion	Ratio	Lower	Upper
76	100		
78	11.6	7.6	11.4



Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

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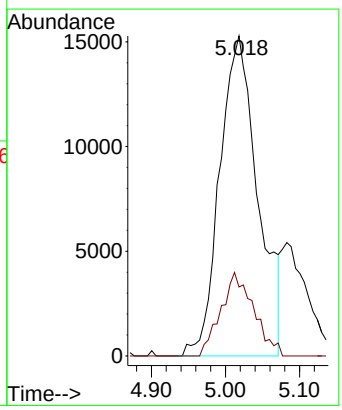
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

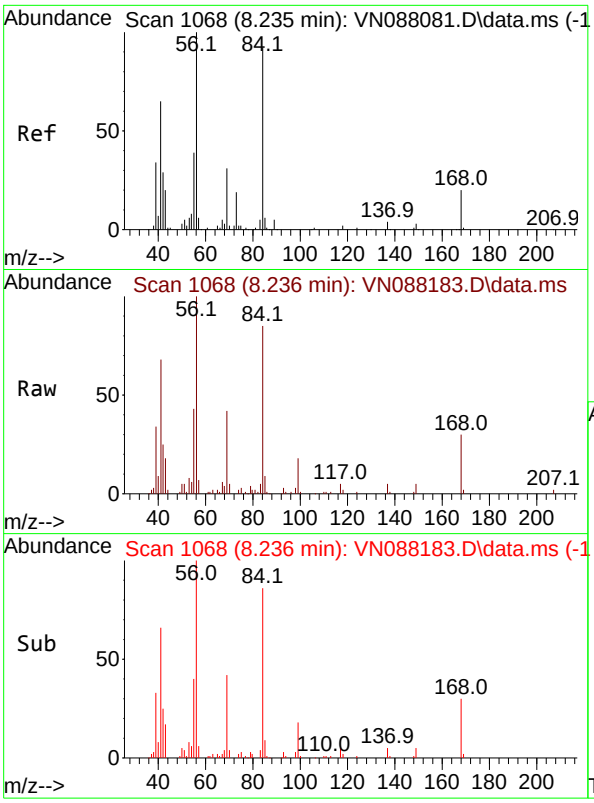


#18
Methyl Acetate
Concen: 13.472 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 43 Resp: 54636

Ion	Ratio	Lower	Upper
43	100		
74	22.5	17.6	26.4

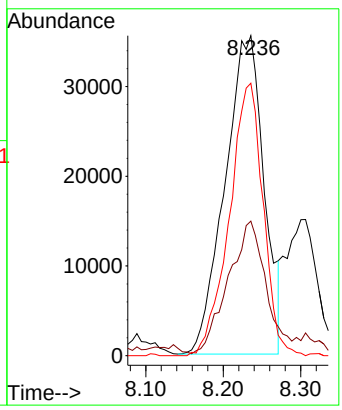




#31
Cyclohexane
Concen: 22.524 ug/l
RT: 8.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 56 Resp: 12432

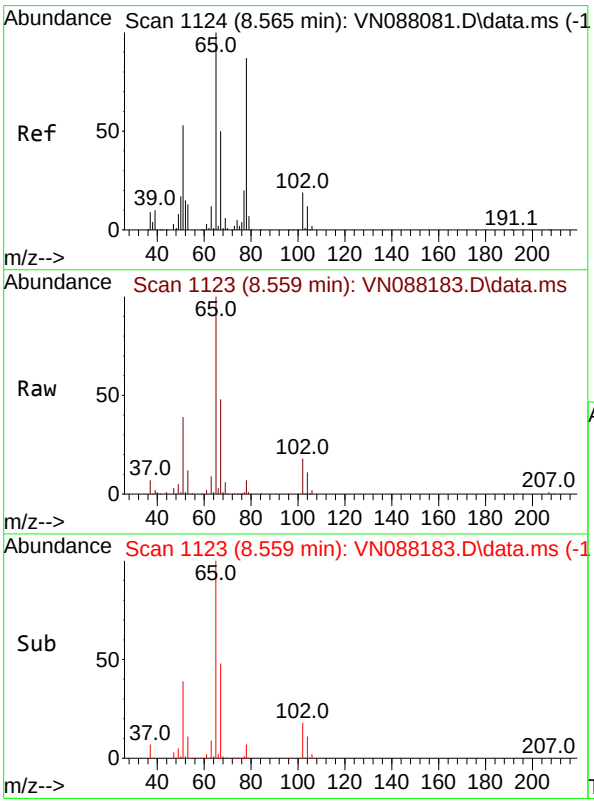
Ion	Ratio	Lower	Upper
56	100		
69	40.0	23.7	35.5
84	85.6	64.7	97.1



Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Manual Integrations
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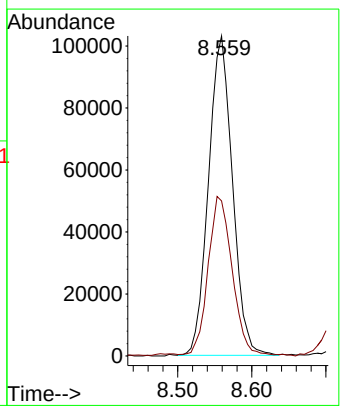
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

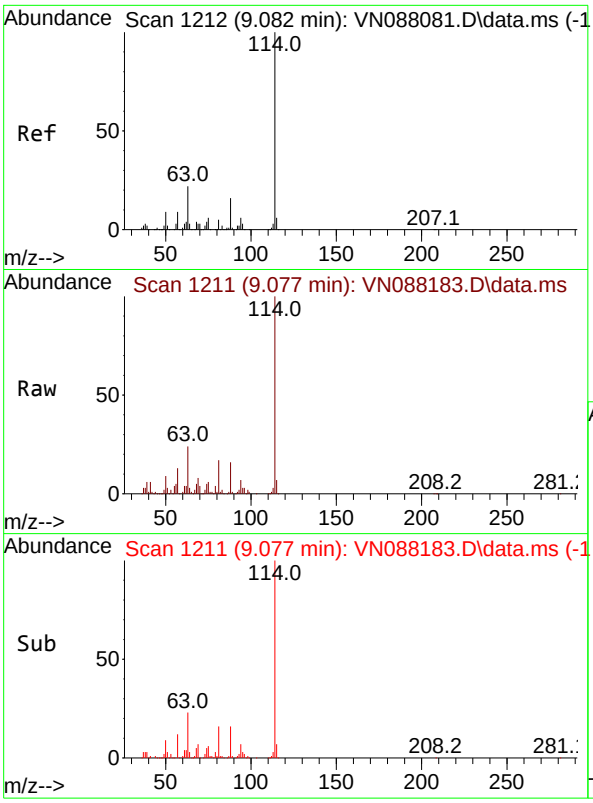


#33
1,2-Dichloroethane-d4
Concen: 58.727 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 65 Resp: 231568

Ion	Ratio	Lower	Upper
65	100		
67	50.8	0.0	100.0





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.077 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

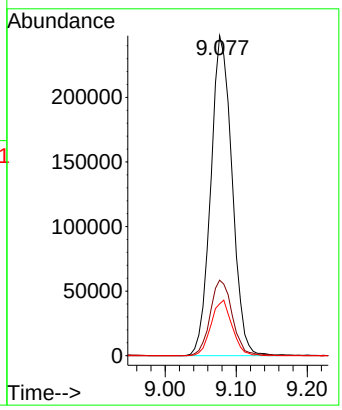
Tgt Ion:114 Resp: 515714

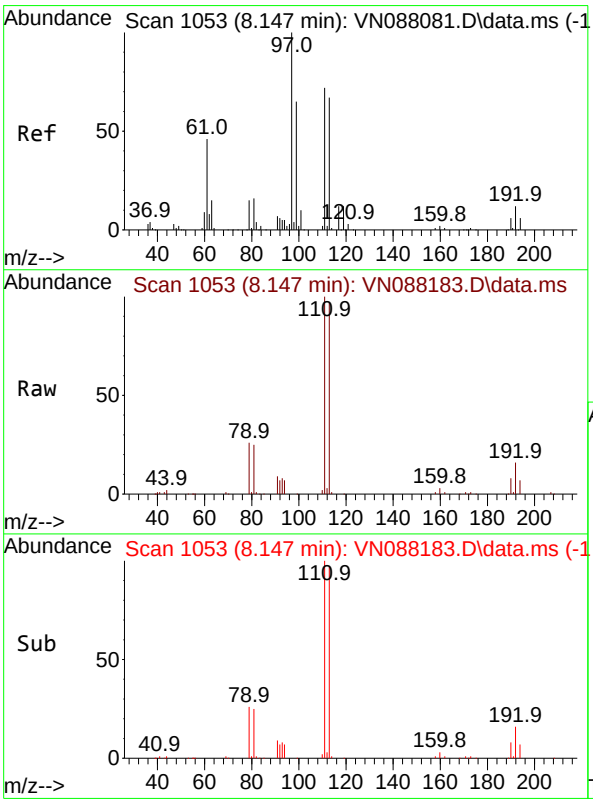
Ion	Ratio	Lower	Upper
114	100		
63	23.6	0.0	45.2
88	16.2	0.0	33.4

Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Manual Integrations
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Supervised By :Semsettin Yesilyurt 11/03/2025

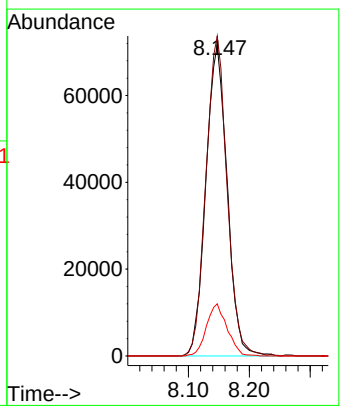


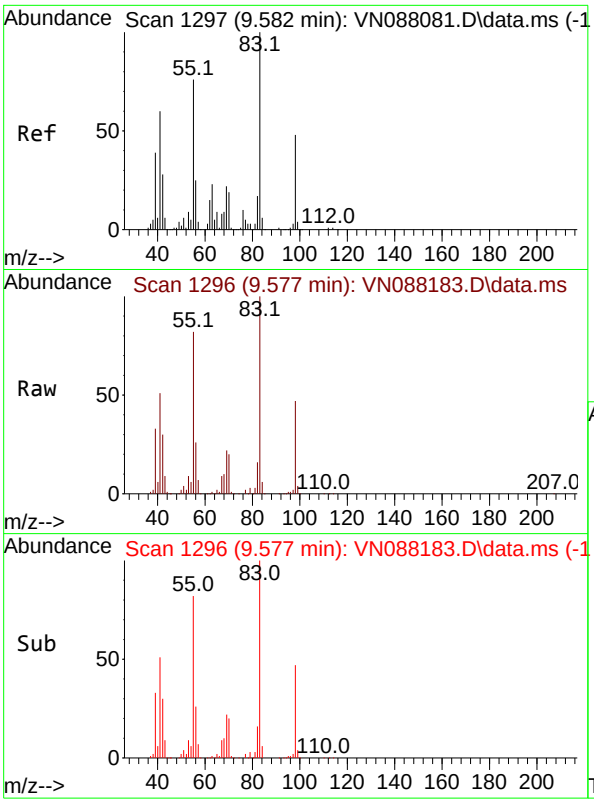


#35
Dibromofluoromethane
Concen: 50.331 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion:113 Resp: 174376

Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.8	124.2
192	16.2	12.8	19.2





#39
Methylcyclohexane
Concen: 46.049 ug/l
RT: 9.577 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

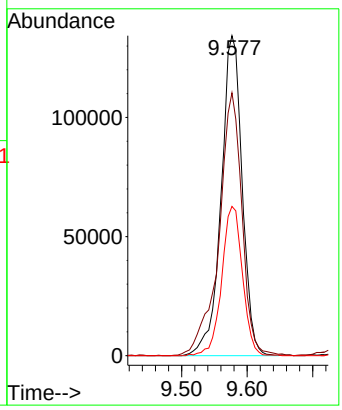
Tgt Ion: 83 Resp: 29942

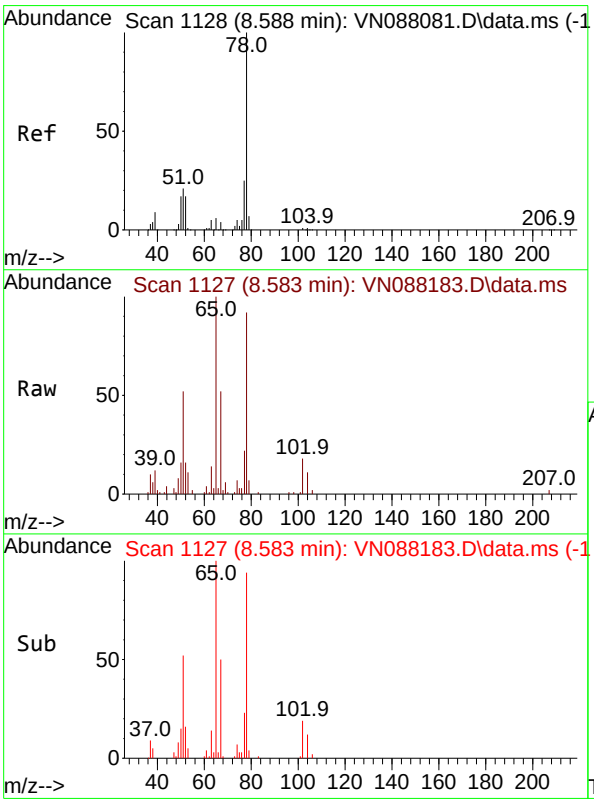
Ion	Ratio	Lower	Upper
83	100		
55	81.9	64.6	96.8
98	46.6	38.4	57.6

Instrument :
MSVOA_N
ClientSampleId :
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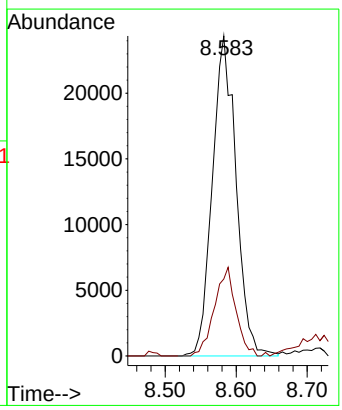


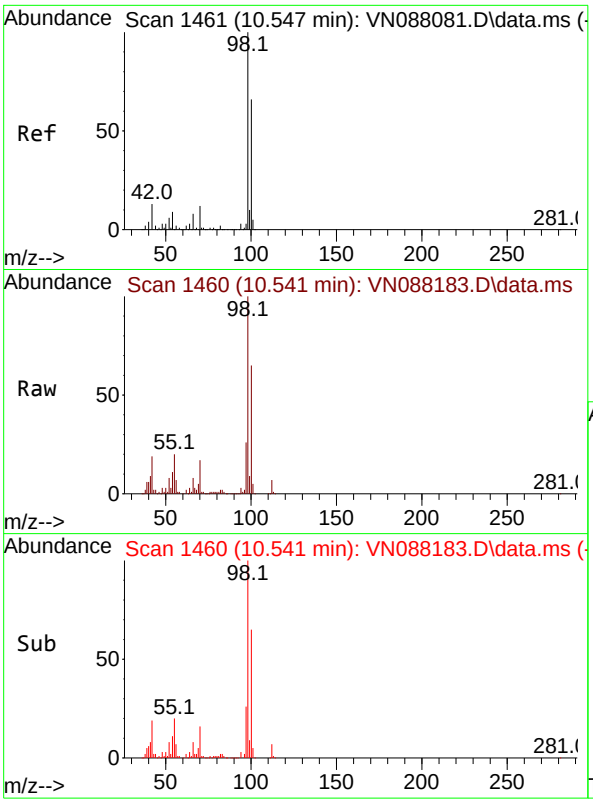


#40
Benzene
Concen: 3.657 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 78 Resp: 56347

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.7	29.5

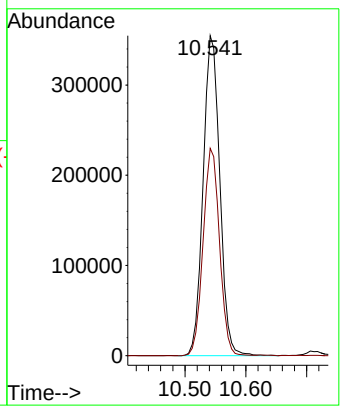




#50
Toluene-d8
Concen: 50.514 ug/l
RT: 10.541 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 98 Resp: 67435

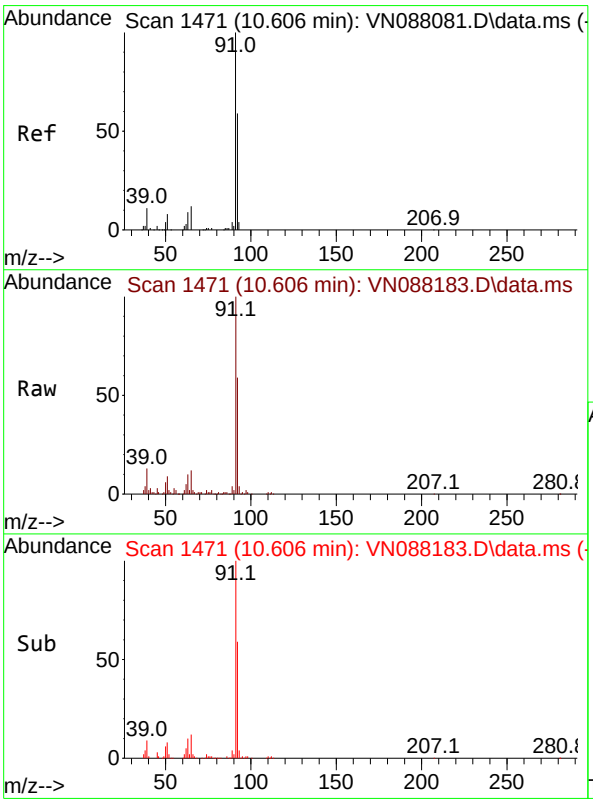
Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.8	79.2



Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

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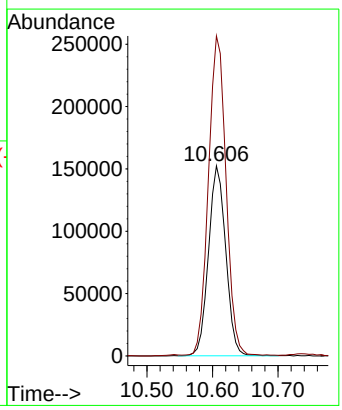
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

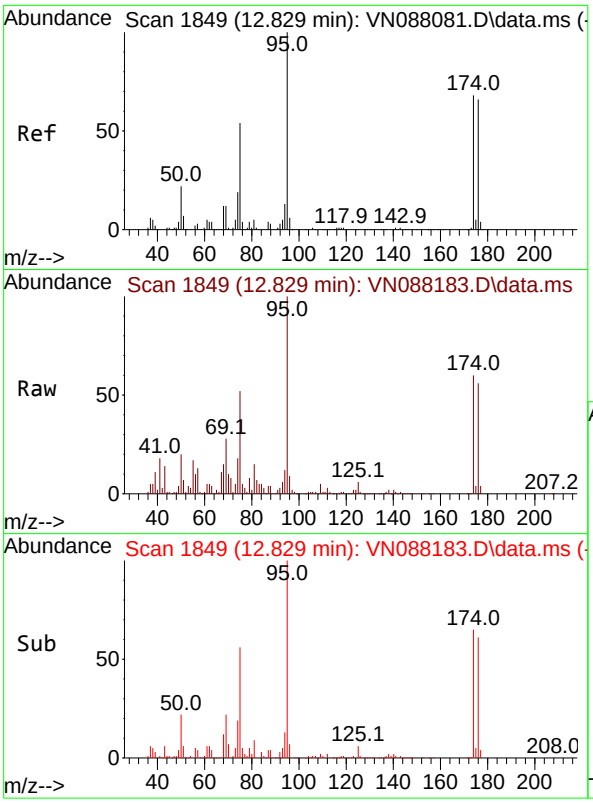


#52
Toluene
Concen: 29.237 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 92 Resp: 277707

Ion	Ratio	Lower	Upper
92	100		
91	171.9	140.4	210.6

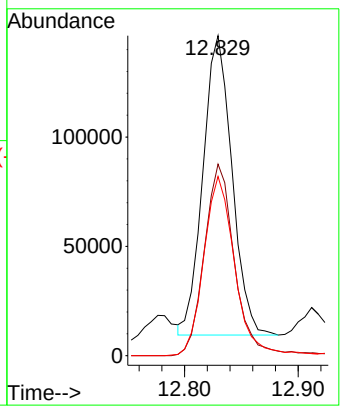




#62
4-Bromofluorobenzene
Concen: 51.617 ug/l
RT: 12.829 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

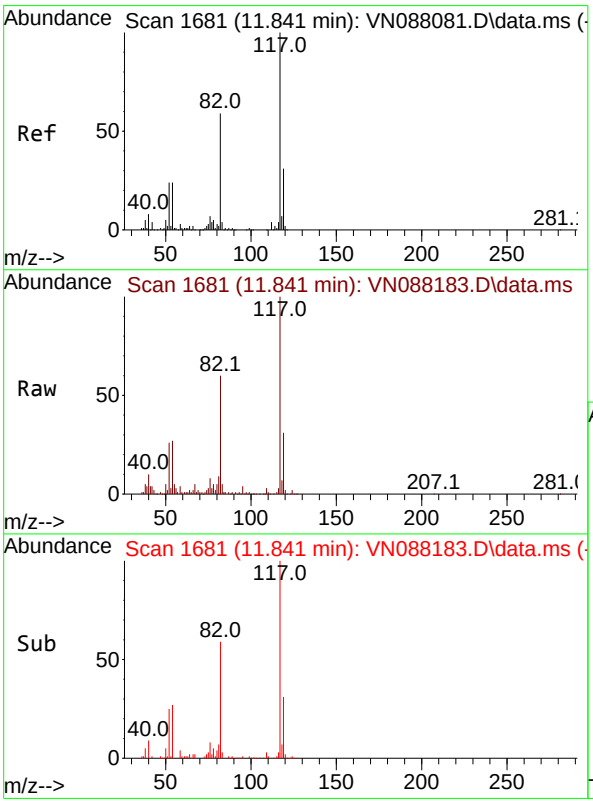
Tgt Ion: 95 Resp: 24335

Ion	Ratio	Lower	Upper
95	100		
174	67.3	0.0	138.4
176	63.9	0.0	132.6



Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

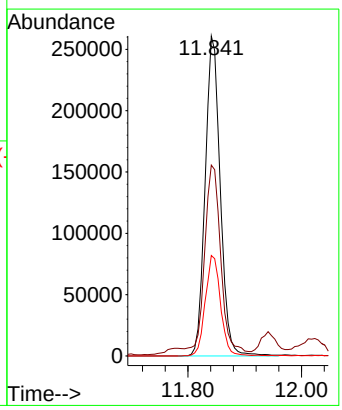
Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

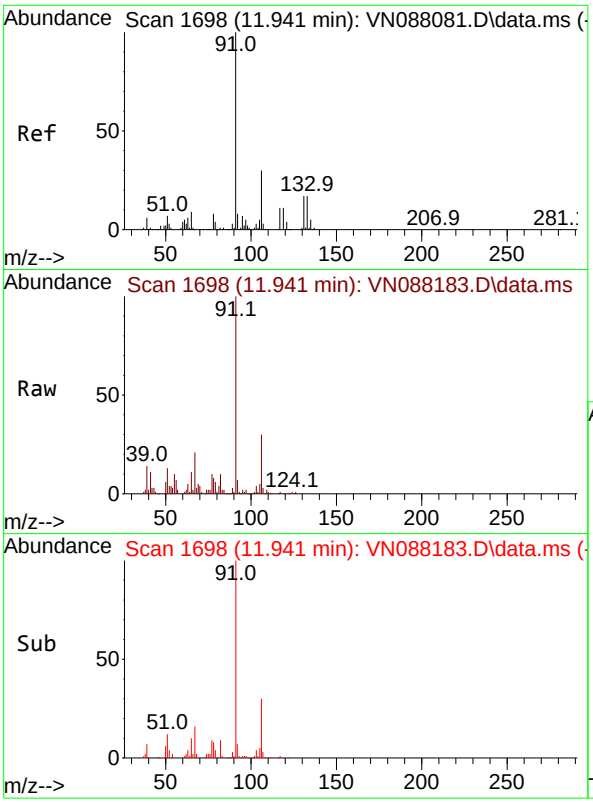


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion:117 Resp: 480366

Ion	Ratio	Lower	Upper
117	100		
82	57.3	47.4	71.2
119	31.4	24.3	36.5

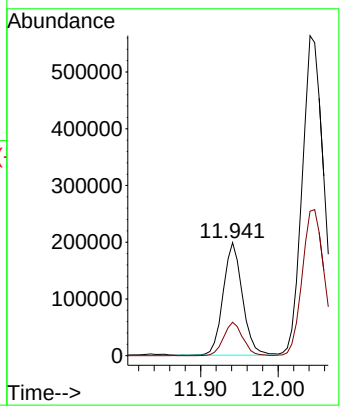




#67
Ethyl Benzene
Concen: 18.009 ug/l
RT: 11.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 91 Resp: 34480

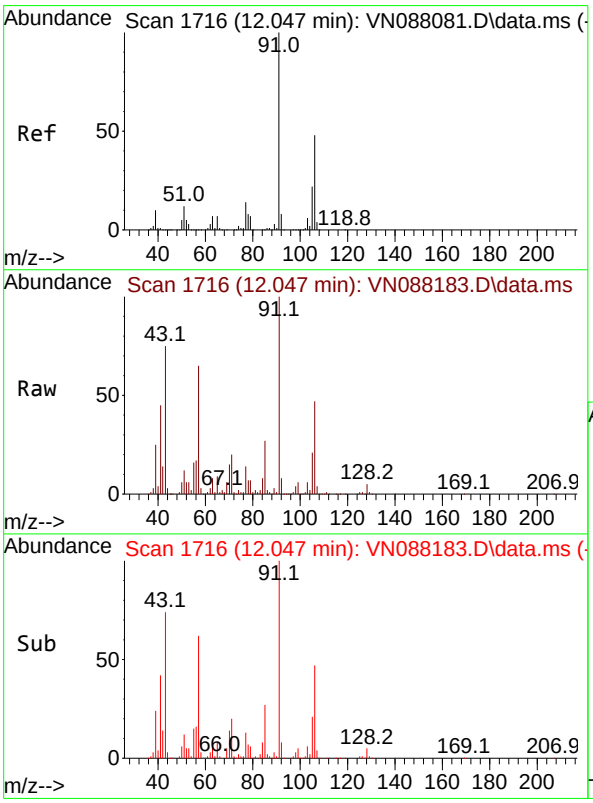
Ion	Ratio	Lower	Upper
91	100		
106	29.7	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Manual Integrations
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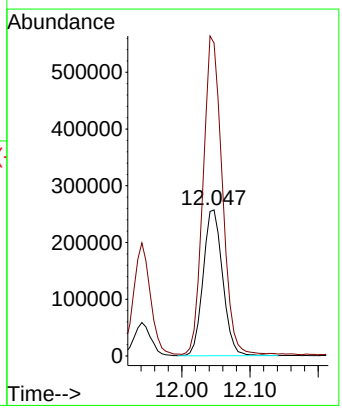
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

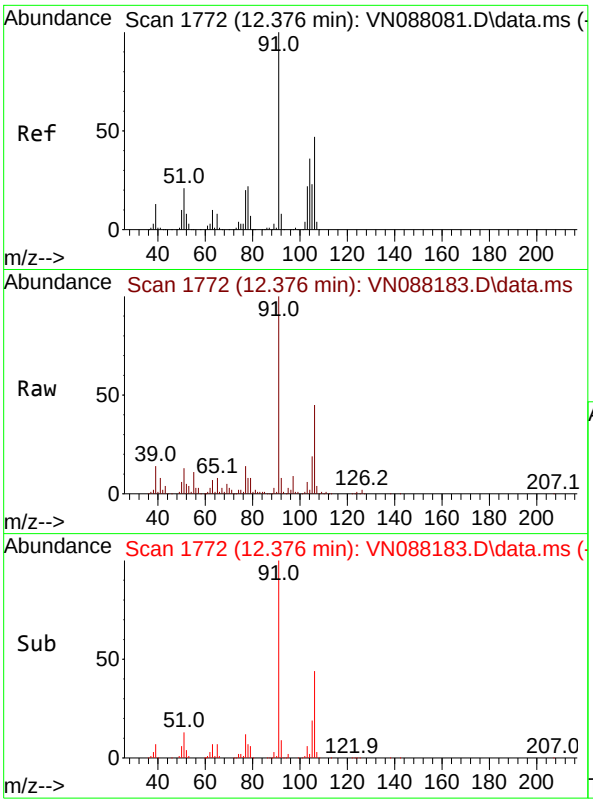


#68
m/p-Xylenes
Concen: 71.376 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion:106 Resp: 512034

Ion	Ratio	Lower	Upper
106	100		
91	213.3	169.3	253.9

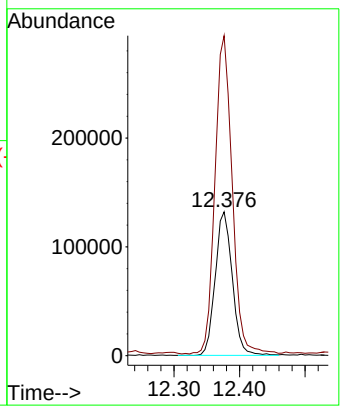




#69
o-Xylene
Concen: 35.003 ug/l
RT: 12.376 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion:106 Resp: 23803

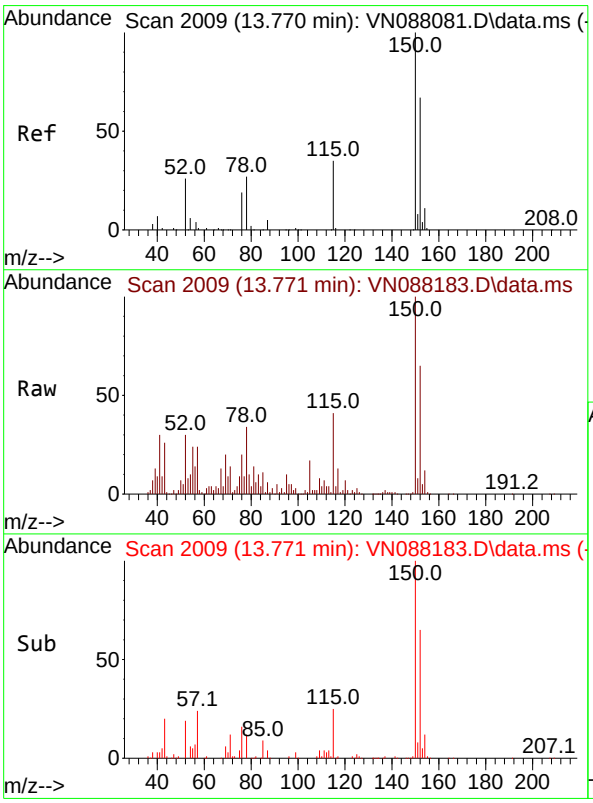
Ion	Ratio	Lower	Upper
106	100		
91	222.9	111.4	334.2



Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Manual Integrations
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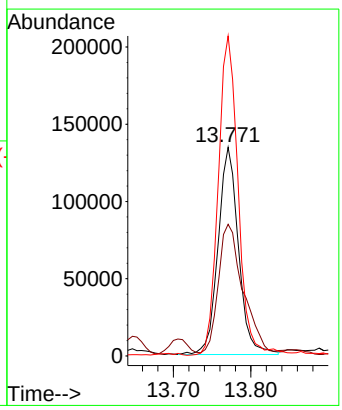
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

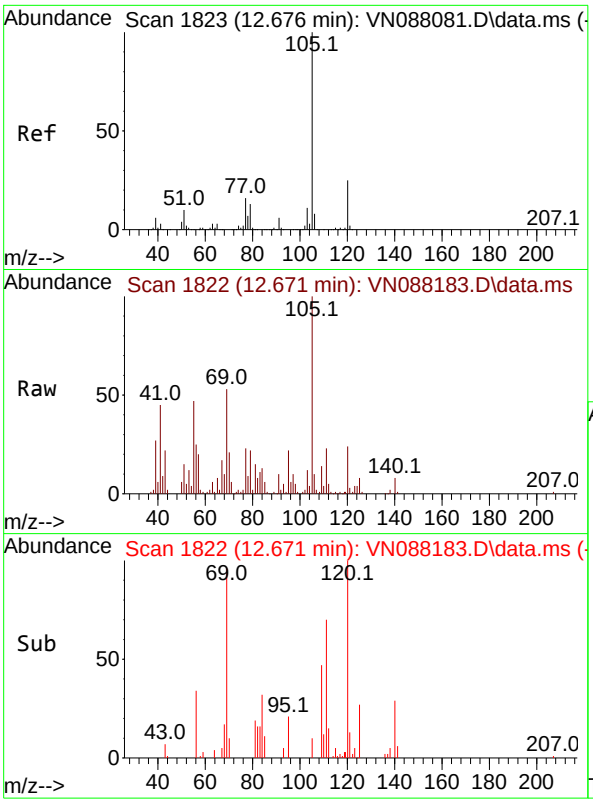


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion:152 Resp: 245335

Ion	Ratio	Lower	Upper
152	100		
115	74.2	32.3	96.8
150	151.0	0.0	351.0

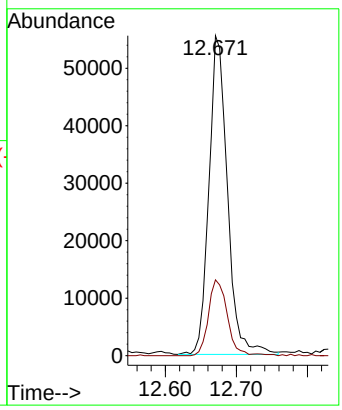




#73
Isopropylbenzene
Concen: 5.293 ug/l
RT: 12.671 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion:105 Resp: 10015

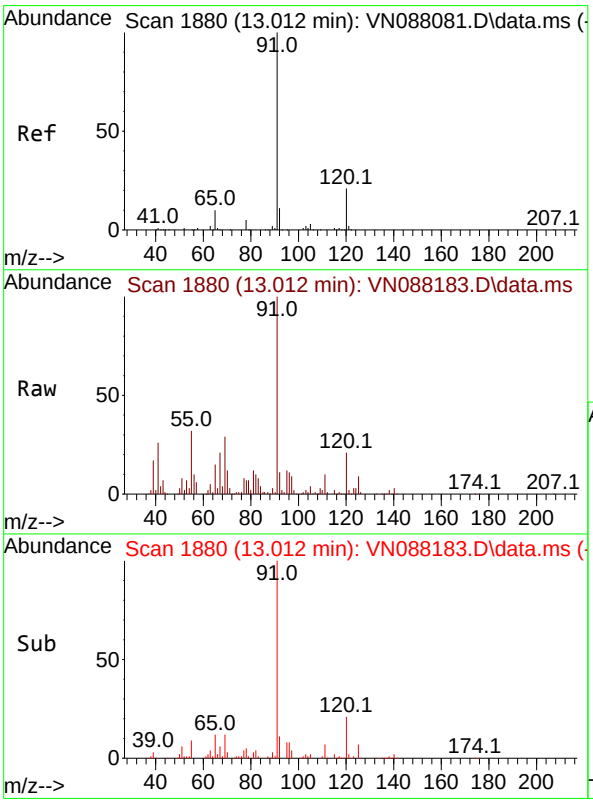
Ion	Ratio	Lower	Upper
105	100		
120	24.0	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Manual Integrations
APPROVED

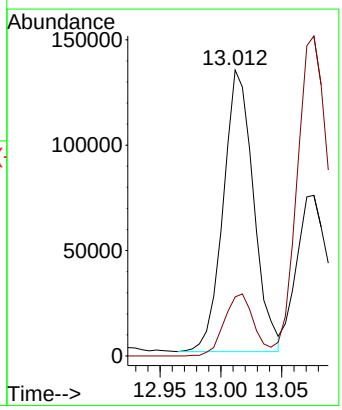
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

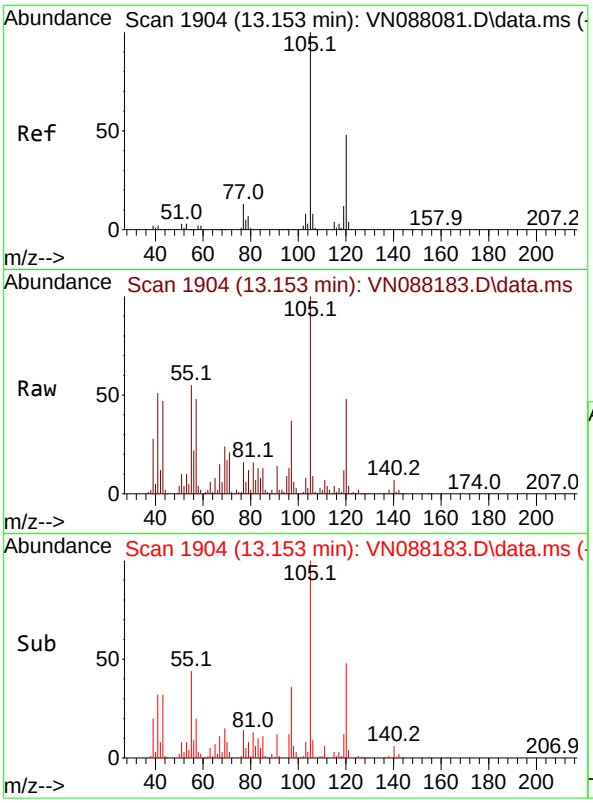


#78
n-propylbenzene
Concen: 10.024 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 91 Resp: 231471

Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.7	32.1

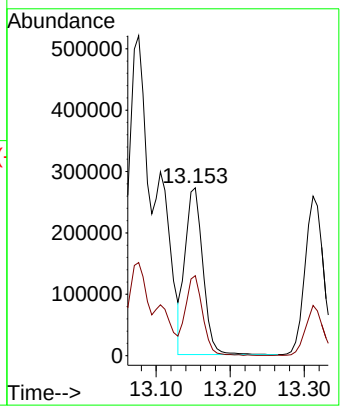




#80
1,3,5-Trimethylbenzene
Concen: 28.885 ug/l
RT: 13.153 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

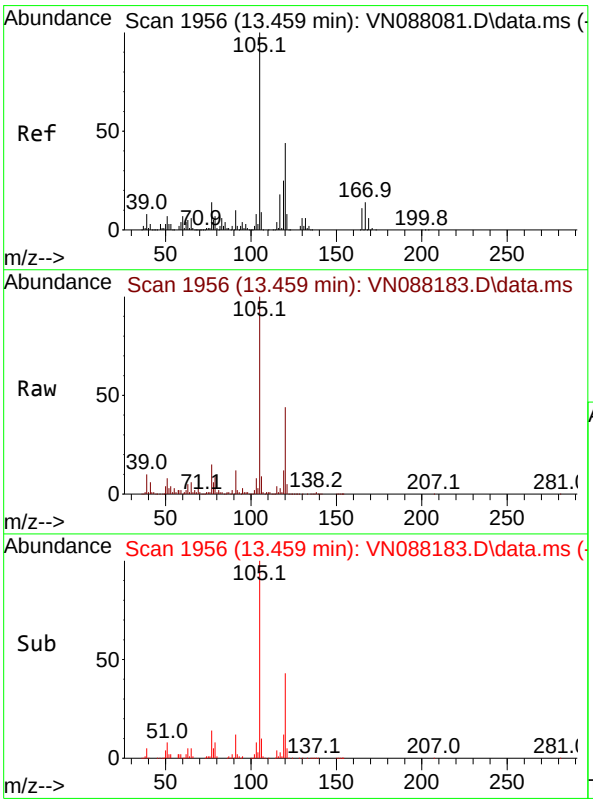
Tgt Ion:105 Resp: 45391

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.2	69.6



Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

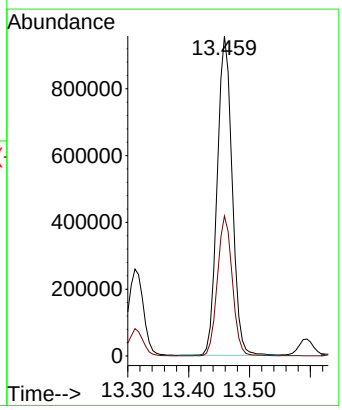
Manual Integrations
APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

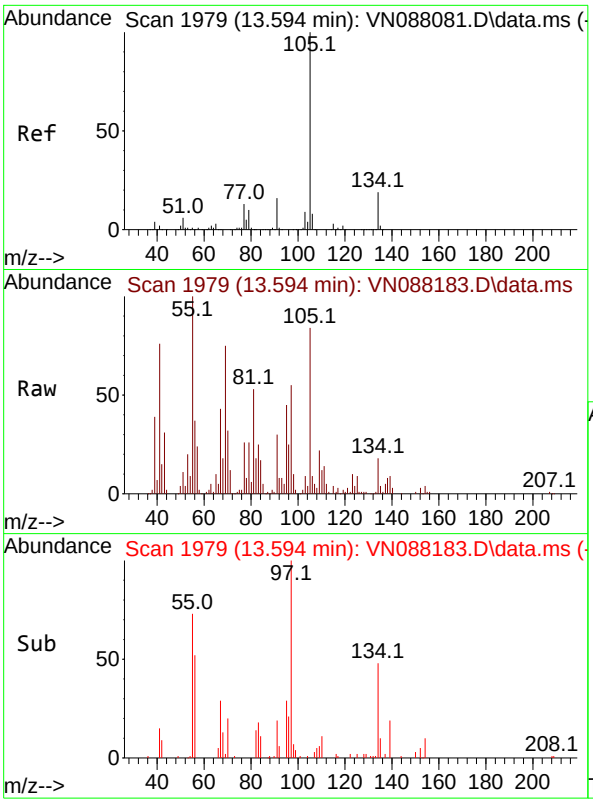


#84
1,2,4-Trimethylbenzene
Concen: 103.270 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion:105 Resp: 1623716

Ion	Ratio	Lower	Upper
105	100		
120	43.6	22.0	66.0





#85
sec-Butylbenzene
Concen: 3.826 ug/l
RT: 13.594 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

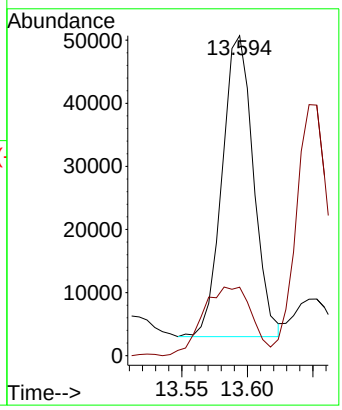
Tgt Ion:105 Resp: 7890

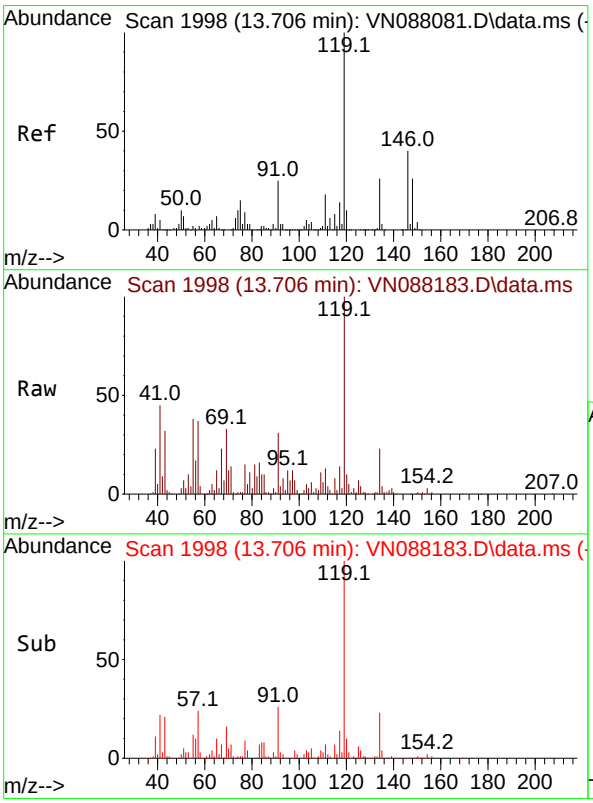
Ion	Ratio	Lower	Upper
105	100		
134	35.9	9.6	28.6

Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

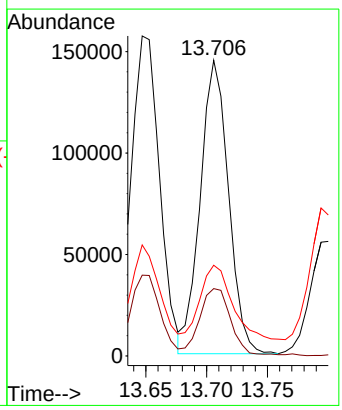


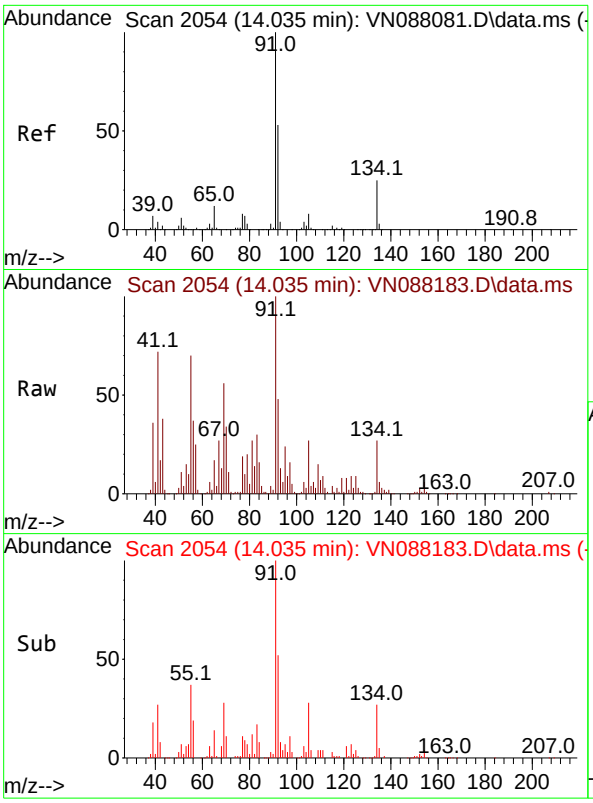


#86
p-Isopropyltoluene
Concen: 14.108 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion:119 Resp: 233418

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.7	38.0
91	28.6	12.5	37.5

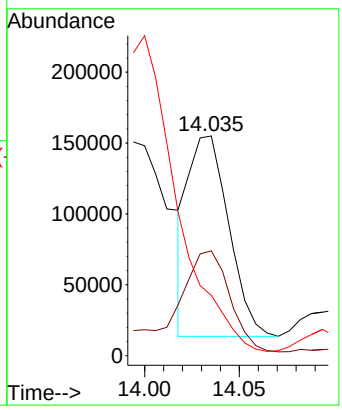




#89
n-Butylbenzene
Concen: 12.850 ug/l
RT: 14.035 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088183.D
Acq: 31 Oct 2025 13:19

Tgt Ion: 91 Resp: 21059

Ion	Ratio	Lower	Upper
91	100		
92	67.5	25.9	77.8
134	0.0	11.7	35.0#



Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088183.D
Acq On : 31 Oct 2025 13:19
Operator : JC\MD
Sample : Q3447-01
Misc : 3.29g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Title : SW846 8260

Signal : TIC: VN088183.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.312	552	571	602	rVB3	127180	677052	1.17%	0.223%
2	6.283	723	736	752	rBV2	248793	782750	1.36%	0.258%
3	7.300	899	909	927	rVB2	201327	596968	1.03%	0.196%
4	8.200	1057	1062	1074	rVB4	439837	1279772	2.22%	0.421%
5	8.559	1115	1123	1137	rVB2	289028	741283	1.28%	0.244%
6	8.941	1179	1188	1203	rVB	719169	1547595	2.68%	0.509%
7	9.077	1203	1211	1218	rBV2	754344	1704194	2.95%	0.561%
8	9.577	1279	1296	1312	rBV	707912	1930419	3.35%	0.635%
9	10.183	1393	1399	1414	rVB	592400	1357601	2.35%	0.447%
10	10.318	1414	1422	1433	rVB3	253280	582012	1.01%	0.191%
11	10.541	1453	1460	1466	rBV	1338225	2700131	4.68%	0.888%
12	10.606	1466	1471	1476	rVB	555449	1094723	1.90%	0.360%
13	10.724	1484	1491	1498	rVB	1490395	2699369	4.68%	0.888%
14	10.971	1525	1533	1543	rBV4	304008	960942	1.67%	0.316%
15	11.147	1554	1563	1569	rBV3	296335	587142	1.02%	0.193%
16	11.447	1609	1614	1619	rBV	399627	641365	1.11%	0.211%
17	11.624	1637	1644	1647	rBV2	386935	790006	1.37%	0.260%
18	11.724	1656	1661	1665	rBV	425720	636889	1.10%	0.210%
19	11.841	1675	1681	1688	rBV	919495	1643169	2.85%	0.541%
20	11.941	1692	1698	1702	rBV	617526	1044753	1.81%	0.344%
21	12.047	1702	1716	1726	rVV2	3530727	8065898	13.98%	2.654%
22	12.371	1761	1771	1780	rBV2	974745	2762445	4.79%	0.909%
23	12.459	1780	1786	1791	rVB2	572011	1001460	1.74%	0.329%
24	12.565	1791	1804	1807	rBV6	514150	1698742	2.94%	0.559%
25	12.829	1844	1849	1858	rBV2	780916	1889973	3.28%	0.622%
26	13.000	1872	1878	1884	rBV3	529861	1224433	2.12%	0.403%
27	13.076	1885	1891	1895	rVV	1571191	3320176	5.76%	1.092%
28	13.135	1896	1901	1909	rVV2	3840522	8185507	14.19%	2.693%
29	13.200	1909	1912	1917	rVB2	393567	624459	1.08%	0.205%
30	13.318	1922	1932	1938	rBV2	726446	2185601	3.79%	0.719%
31	13.371	1938	1941	1950	rVB4	486676	868837	1.51%	0.286%
32	13.459	1950	1956	1967	rBV	2733107	4800536	8.32%	1.579%
33	13.653	1984	1989	1994	rBV5	1002890	1910241	3.31%	0.628%
34	13.700	1994	1997	2004	rVB3	443551	928801	1.61%	0.306%
35	13.771	2004	2009	2010	rBV2	902871	1333375	2.31%	0.439%
36	13.794	2010	2013	2018	rVB	1489039	2296105	3.98%	0.755%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088183.D
Acq On : 31 Oct 2025 13:19
Operator : JC\MD
Sample : Q3447-01
Misc : 3.29g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Title : SW846 8260

37	13.923	2031	2035	2037	rBV2	526551	766670	1.33%	0.252%
38	13.959	2037	2041	2044	rVV2	1493925	2507165	4.35%	0.825%
39	14.000	2044	2048	2052	rVB2	1428923	2617505	4.54%	0.861%
40	14.082	2057	2062	2068	rVB	4013773	6598708	11.44%	2.171%
41	14.223	2081	2086	2088	rBV	985304	1714474	2.97%	0.564%
42	14.253	2088	2091	2095	rVV	1587908	2250732	3.90%	0.740%
43	14.306	2095	2100	2108	rVB	2593829	4201416	7.28%	1.382%
44	14.418	2113	2119	2125	rBV3	3163484	5699436	9.88%	1.875%
45	14.553	2137	2142	2146	rBV2	1337587	2422544	4.20%	0.797%
46	14.606	2146	2151	2153	rVV3	1450442	2354136	4.08%	0.774%
47	14.635	2153	2156	2159	rVV2	1051122	1275209	2.21%	0.420%
48	14.670	2159	2162	2165	rVB	1748084	2224111	3.86%	0.732%
49	14.712	2165	2169	2172	rBV	2069819	2617154	4.54%	0.861%
50	14.753	2172	2176	2184	rVB4	1711602	4042929	7.01%	1.330%
51	14.817	2184	2187	2190	rBV3	519688	753201	1.31%	0.248%
52	14.853	2190	2193	2197	rVB	1307150	1697227	2.94%	0.558%
53	14.906	2197	2202	2205	rBV4	3964391	7636953	13.24%	2.512%
54	15.023	2213	2222	2228	rBV4	6808997	19243741	33.36%	6.331%
55	15.082	2228	2232	2245	rVB3	2244918	5747031	9.96%	1.891%
56	15.188	2245	2250	2255	rBV4	1206274	2552709	4.42%	0.840%
57	15.253	2256	2261	2262	rVV4	1287485	2007002	3.48%	0.660%
58	15.294	2262	2268	2281	rVV3	6035666	17449034	30.25%	5.740%
59	15.417	2282	2289	2296	rVB2	6524165	14715882	25.51%	4.841%
60	15.570	2309	2315	2316	rBV3	1473765	2481359	4.30%	0.816%
61	15.612	2316	2322	2329	rVB	11971462	23011769	39.89%	7.571%
62	15.717	2334	2340	2345	rVV3	3209085	7602549	13.18%	2.501%
63	15.776	2346	2350	2365	rVB7	3056610	10793514	18.71%	3.551%
64	15.917	2365	2374	2382	rBV3	2650600	7486509	12.98%	2.463%
65	16.094	2396	2404	2409	rBV4	1444127	4299320	7.45%	1.414%
66	16.229	2423	2427	2431	rBV3	797164	1287687	2.23%	0.424%
67	16.306	2433	2440	2447	rVB4	2051868	5664535	9.82%	1.864%
68	16.459	2460	2466	2472	rBV3	1463821	3456857	5.99%	1.137%
69	16.753	2507	2516	2522	rBV	25361913	57691771	100.00%	18.980%

Sum of corrected areas: 303965563

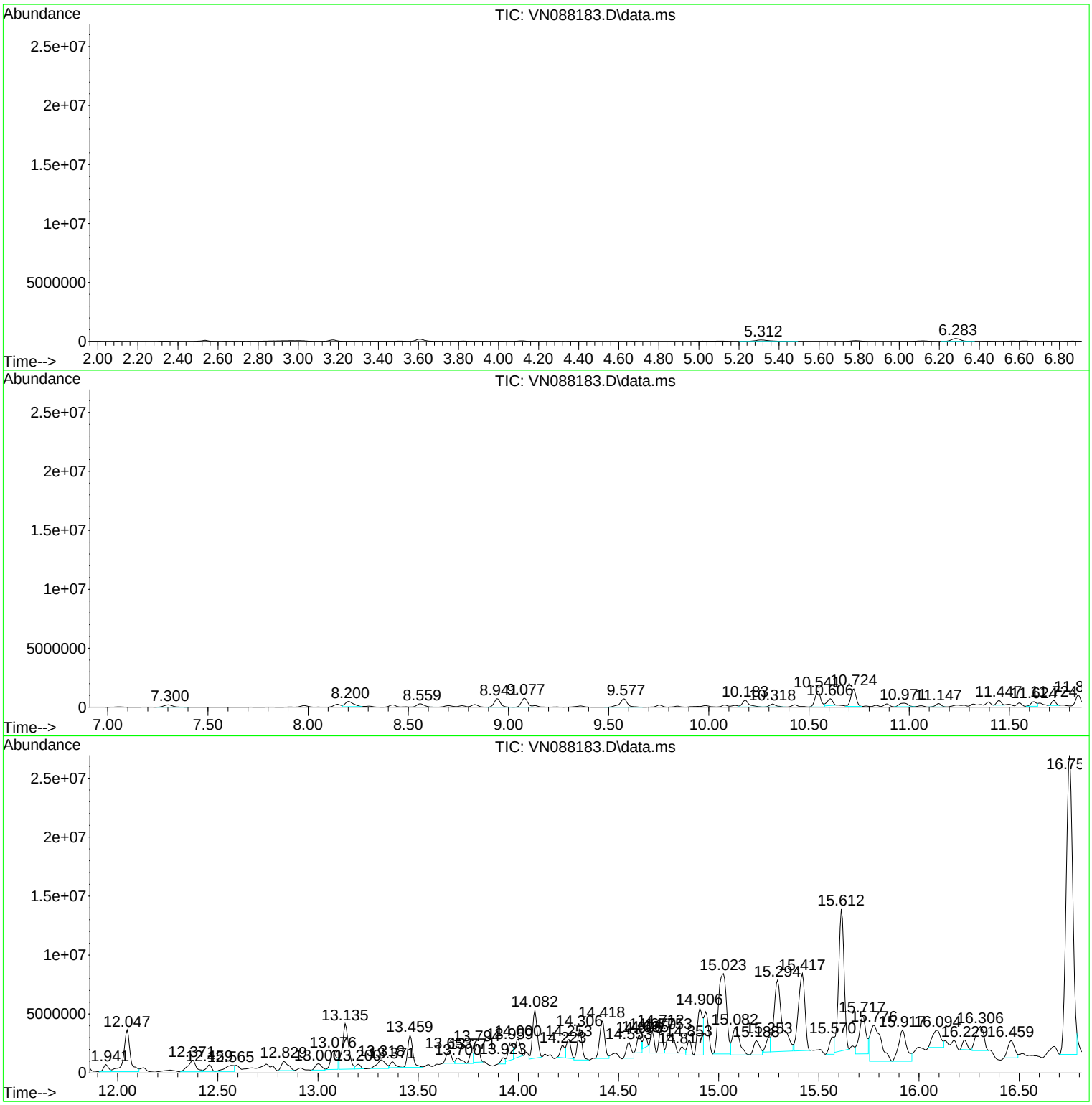
Sample Results: **VN088183.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088183.D
Acq On : 31 Oct 2025 13:19
Operator : JC\MD
Sample : Q3447-01
Misc : 3.29g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088183.D
Acq On : 31 Oct 2025 13:19
Operator : JC\MD
Sample : Q3447-01
Misc : 3.29g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

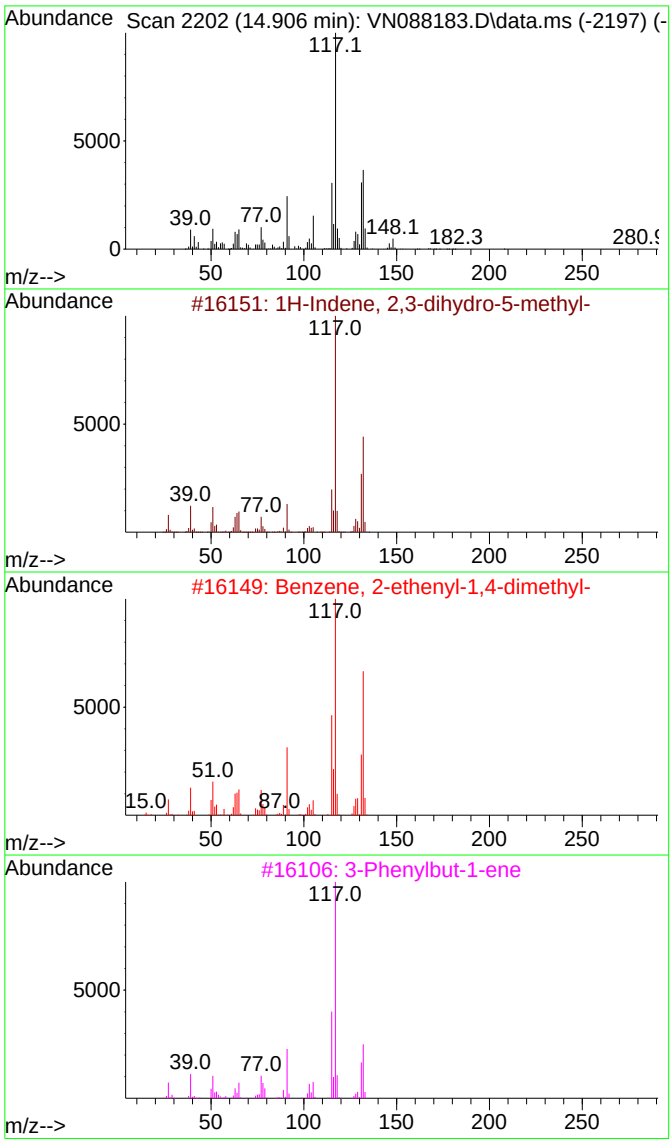
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Quant Title : SW846 8260

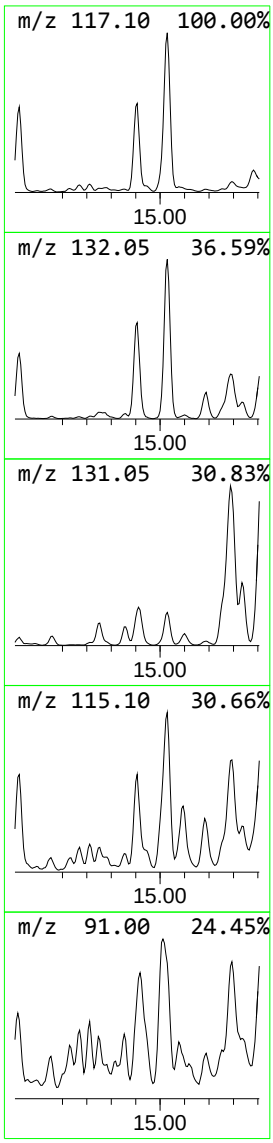
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.906	286.38 ug/l	7636950	1,4-Dichlorobenzene-d4	13.771

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	93
2	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	92
3	3-Phenylbut-1-ene	132	C10H12	000934-10-1	87
4	1H-Indene, 2,3-dihydro-2-methyl-	132	C10H12	000824-63-5	83
5	Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	83





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088183.D
Acq On : 31 Oct 2025 13:19
Operator : JC\MD
Sample : Q3447-01
Misc : 3.29g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

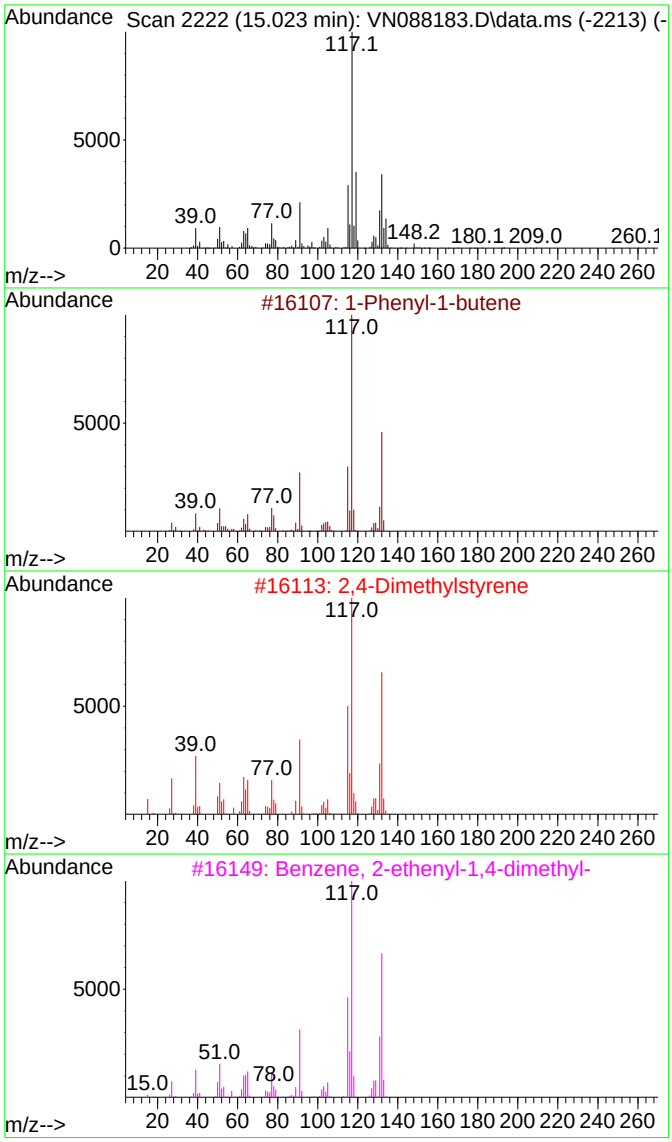
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

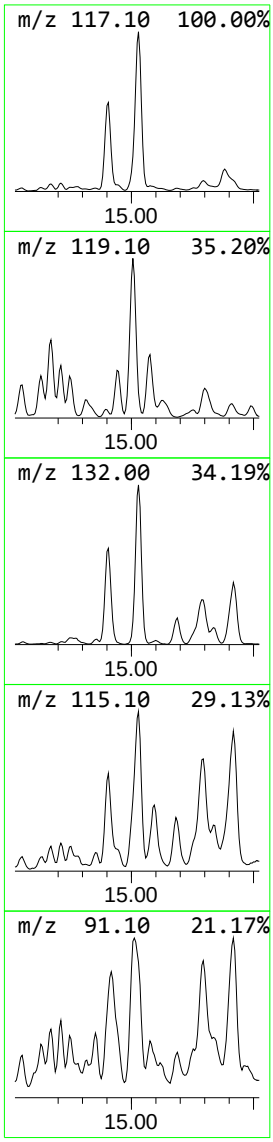
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Peak Number 2 1-Phenyl-1-butene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.023	721.62 ug/l	19243700	1,4-Dichlorobenzene-d4	13.771

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Phenyl-1-butene	132	C10H12	000824-90-8	93
2	2,4-Dimethylstyrene	132	C10H12	002234-20-0	92
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	92
4	Benzene, 1-methyl-4-(2-propenyl)-	132	C10H12	003333-13-9	90
5	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	81





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088183.D
Acq On : 31 Oct 2025 13:19
Operator : JC\MD
Sample : Q3447-01
Misc : 3.29g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

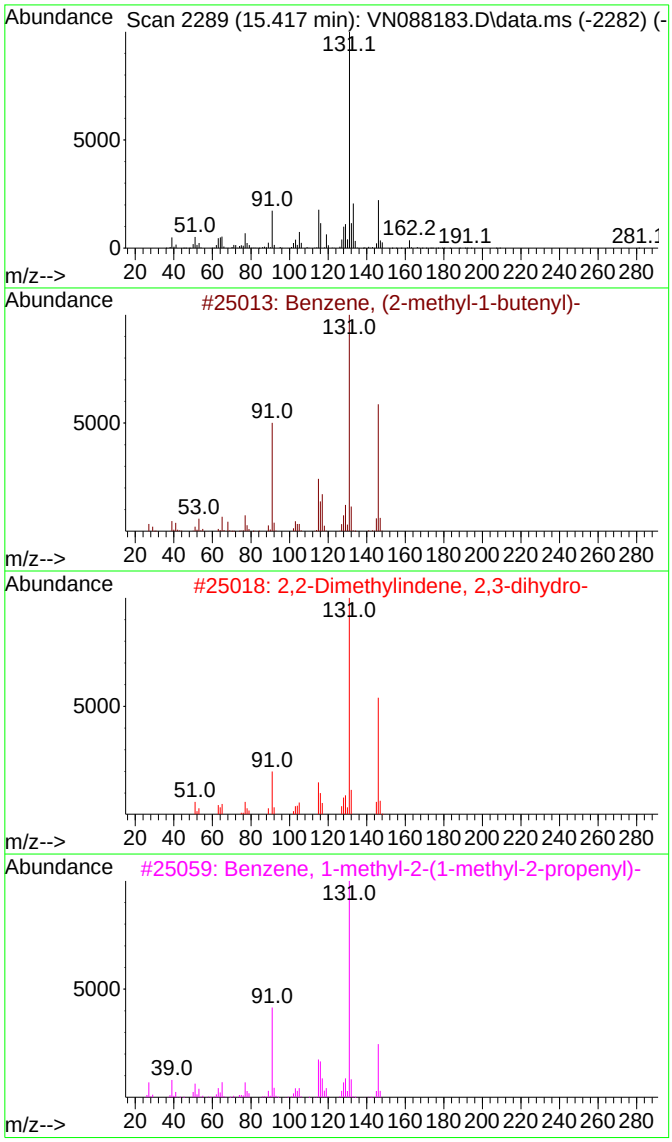
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

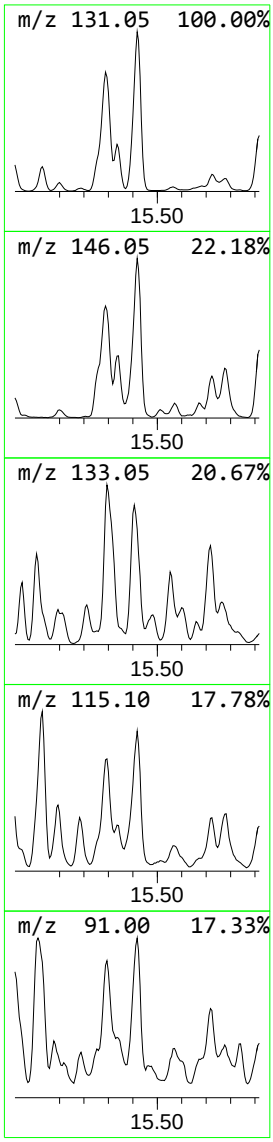
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzene, (2-methyl-1-butenyl)- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.418	551.83 ug/l	14715900	1,4-Dichlorobenzene-d4	13.771

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	91
2	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	87
3	Benzene, 1-methyl-2-(1-methyl-2-...	146	C11H14	097664-19-2	87
4	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	87
5	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088183.D
Acq On : 31 Oct 2025 13:19
Operator : JC\MD
Sample : Q3447-01
Misc : 3.29g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

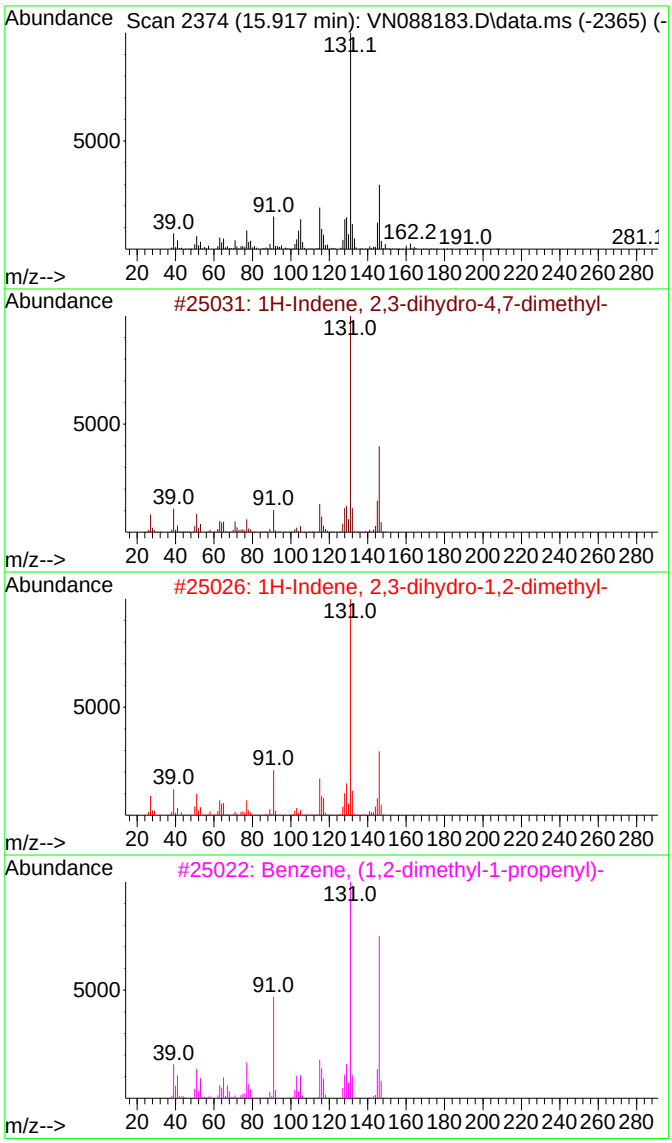
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

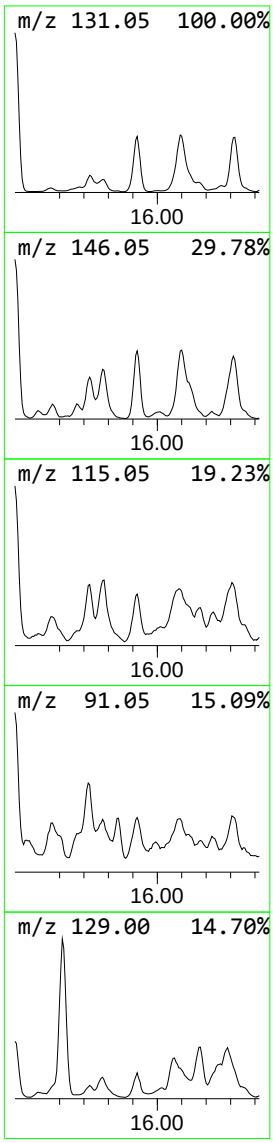
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.917	280.74 ug/l	7486510	1,4-Dichlorobenzene-d4	13.771

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-4,7-dimet...	146	C11H14	006682-71-9	95
2	1H-Indene, 2,3-dihydro-1,2-dimet...	146	C11H14	017057-82-8	94
3	Benzene, (1,2-dimethyl-1-propenyl)-	146	C11H14	000769-57-3	93
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001559-81-5	90
5	2,2-Dimethylindene, 2,3-dihydro-	146	C11H14	020836-11-7	90





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088183.D
Acq On : 31 Oct 2025 13:19
Operator : JC\MD
Sample : Q3447-01
Misc : 3.29g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW1-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1H-Indene, 2,3-...	14.906	286.4	ug/l	7636950	4	13.771	1333380	50.0
1-Phenyl-1-butene	15.023	721.6	ug/l	19243700	4	13.771	1333380	50.0
Benzene, (2-met...	15.418	551.8	ug/l	14715900	4	13.771	1333380	50.0
1H-Indene, 2,3-...	15.917	280.7	ug/l	7486510	4	13.771	1333380	50.0

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/23/25	
Project:	RFP 905		Date Received:	10/23/25	
Client Sample ID:	P001-TW2-251023-01		SDG No.:	Q3447	
Lab Sample ID:	Q3447-03		Matrix:	SOIL	
Analytical Method:	8260D	Level: LOW	% Solid:	91.7	
Sample Wt/Vol:	3.69 g	Final Vol: 5000 uL	Test:	VOC-TCLVOA-10	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.70	U	1	1.70	7.40	ug/Kg	11/03/25 13:26	VY110325
74-87-3	Chloromethane	1.70	U	1	1.70	7.40	ug/Kg	11/03/25 13:26	VY110325
75-01-4	Vinyl Chloride	1.20	U	1	1.20	7.40	ug/Kg	11/03/25 13:26	VY110325
74-83-9	Bromomethane	1.60	U	1	1.60	7.40	ug/Kg	11/03/25 13:26	VY110325
75-00-3	Chloroethane	1.90	U	1	1.90	7.40	ug/Kg	11/03/25 13:26	VY110325
75-69-4	Trichlorofluoromethane	1.80	U	1	1.80	7.40	ug/Kg	11/03/25 13:26	VY110325
76-13-1	1,1,2-Trichlorotrifluoroethane	1.60	U	1	1.60	7.40	ug/Kg	11/03/25 13:26	VY110325
75-35-4	1,1-Dichloroethene	1.50	U	1	1.50	7.40	ug/Kg	11/03/25 13:26	VY110325
67-64-1	Acetone	7.00	U	1	7.00	36.9	ug/Kg	11/03/25 13:26	VY110325
75-15-0	Carbon Disulfide	1.60	U	1	1.60	7.40	ug/Kg	11/03/25 13:26	VY110325
1634-04-4	Methyl tert-butyl Ether	1.10	U	1	1.10	7.40	ug/Kg	11/03/25 13:26	VY110325
79-20-9	Methyl Acetate	2.30	U	1	2.30	7.40	ug/Kg	11/03/25 13:26	VY110325
75-09-2	Methylene Chloride	5.20	U	1	5.20	14.8	ug/Kg	11/03/25 13:26	VY110325
156-60-5	trans-1,2-Dichloroethene	1.30	U	1	1.30	7.40	ug/Kg	11/03/25 13:26	VY110325
75-34-3	1,1-Dichloroethane	1.20	U	1	1.20	7.40	ug/Kg	11/03/25 13:26	VY110325
110-82-7	Cyclohexane	1.20	U	1	1.20	7.40	ug/Kg	11/03/25 13:26	VY110325
78-93-3	2-Butanone	9.70	UQ	1	9.70	36.9	ug/Kg	11/03/25 13:26	VY110325
56-23-5	Carbon Tetrachloride	1.40	U	1	1.40	7.40	ug/Kg	11/03/25 13:26	VY110325
156-59-2	cis-1,2-Dichloroethene	1.10	U	1	1.10	7.40	ug/Kg	11/03/25 13:26	VY110325
74-97-5	Bromochloromethane	1.70	U	1	1.70	7.40	ug/Kg	11/03/25 13:26	VY110325
67-66-3	Chloroform	1.20	U	1	1.20	7.40	ug/Kg	11/03/25 13:26	VY110325
71-55-6	1,1,1-Trichloroethane	1.40	U	1	1.40	7.40	ug/Kg	11/03/25 13:26	VY110325
108-87-2	Methylcyclohexane	1.30	U	1	1.30	7.40	ug/Kg	11/03/25 13:26	VY110325
71-43-2	Benzene	1.20	U	1	1.20	7.40	ug/Kg	11/03/25 13:26	VY110325
107-06-2	1,2-Dichloroethane	1.20	U	1	1.20	7.40	ug/Kg	11/03/25 13:26	VY110325
79-01-6	Trichloroethene	1.20	U	1	1.20	7.40	ug/Kg	11/03/25 13:26	VY110325
78-87-5	1,2-Dichloropropane	1.30	U	1	1.30	7.40	ug/Kg	11/03/25 13:26	VY110325
75-27-4	Bromodichloromethane	1.20	U	1	1.20	7.40	ug/Kg	11/03/25 13:26	VY110325
108-10-1	4-Methyl-2-Pentanone	5.30	U	1	5.30	36.9	ug/Kg	11/03/25 13:26	VY110325
108-88-3	Toluene	1.20	U	1	1.20	7.40	ug/Kg	11/03/25 13:26	VY110325
10061-02-6	t-1,3-Dichloropropene	0.96	U	1	0.96	7.40	ug/Kg	11/03/25 13:26	VY110325
10061-01-5	cis-1,3-Dichloropropene	0.92	U	1	0.92	7.40	ug/Kg	11/03/25 13:26	VY110325
79-00-5	1,1,2-Trichloroethane	1.40	U	1	1.40	7.40	ug/Kg	11/03/25 13:26	VY110325
591-78-6	2-Hexanone	5.50	U	1	5.50	36.9	ug/Kg	11/03/25 13:26	VY110325
124-48-1	Dibromochloromethane	1.30	U	1	1.30	7.40	ug/Kg	11/03/25 13:26	VY110325
106-93-4	1,2-Dibromoethane	1.30	U	1	1.30	7.40	ug/Kg	11/03/25 13:26	VY110325
127-18-4	Tetrachloroethene	1.60	U	1	1.60	7.40	ug/Kg	11/03/25 13:26	VY110325
108-90-7	Chlorobenzene	1.30	U	1	1.30	7.40	ug/Kg	11/03/25 13:26	VY110325
100-41-4	Ethyl Benzene	0.99	U	1	0.99	7.40	ug/Kg	11/03/25 13:26	VY110325
179601-23-1	m/p-Xylenes	1.80	U	1	1.80	14.8	ug/Kg	11/03/25 13:26	VY110325
95-47-6	o-Xylene	1.20	U	1	1.20	7.40	ug/Kg	11/03/25 13:26	VY110325
100-42-5	Styrene	1.00	U	1	1.00	7.40	ug/Kg	11/03/25 13:26	VY110325
75-25-2	Bromoform	1.30	U	1	1.30	7.40	ug/Kg	11/03/25 13:26	VY110325

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	10/23/25
Project:	RFP 905	Date Received:	10/23/25
Client Sample ID:	P001-TW2-251023-01	SDG No.:	Q3447
Lab Sample ID:	Q3447-03	Matrix:	SOIL
Analytical Method:	8260D	Level: LOW	% Solid: 91.7
Sample Wt/Vol:	3.69 g	Final Vol: 5000 uL	Test: VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	1.20	U	1	1.20	7.40	ug/Kg	11/03/25 13:26	VY110325
79-34-5	1,1,2,2-Tetrachloroethane	1.80	U	1	1.80	7.40	ug/Kg	11/03/25 13:26	VY110325
541-73-1	1,3-Dichlorobenzene	2.50	U	1	2.50	7.40	ug/Kg	11/03/25 13:26	VY110325
106-46-7	1,4-Dichlorobenzene	2.30	U	1	2.30	7.40	ug/Kg	11/03/25 13:26	VY110325
95-50-1	1,2-Dichlorobenzene	2.10	U	1	2.10	7.40	ug/Kg	11/03/25 13:26	VY110325
96-12-8	1,2-Dibromo-3-Chloropropane	2.70	U	1	2.70	7.40	ug/Kg	11/03/25 13:26	VY110325
120-82-1	1,2,4-Trichlorobenzene	4.40	U	1	4.40	7.40	ug/Kg	11/03/25 13:26	VY110325
87-61-6	1,2,3-Trichlorobenzene	4.70	U	1	4.70	7.40	ug/Kg	11/03/25 13:26	VY110325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.7			63 - 155	107%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.6			70 - 134	101%	SPK: 50		
2037-26-5	Toluene-d8	48.3			74 - 123	97%	SPK: 50		
460-00-4	4-Bromofluorobenzene	40.6			17 - 146	81%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	785000							
540-36-3	1,4-Difluorobenzene	1290000							
3114-55-4	Chlorobenzene-d5	1060000							
3855-82-1	1,4-Dichlorobenzene-d4	399000							

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_Y\Data\VY110325\
Data File : VY023654.D
Acq On : 03 Nov 2025 13:26
Operator : SY/MD
Sample : Q3447-03
Misc : 3.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-TW2-251023-01

Quant Time: Nov 04 01:33:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

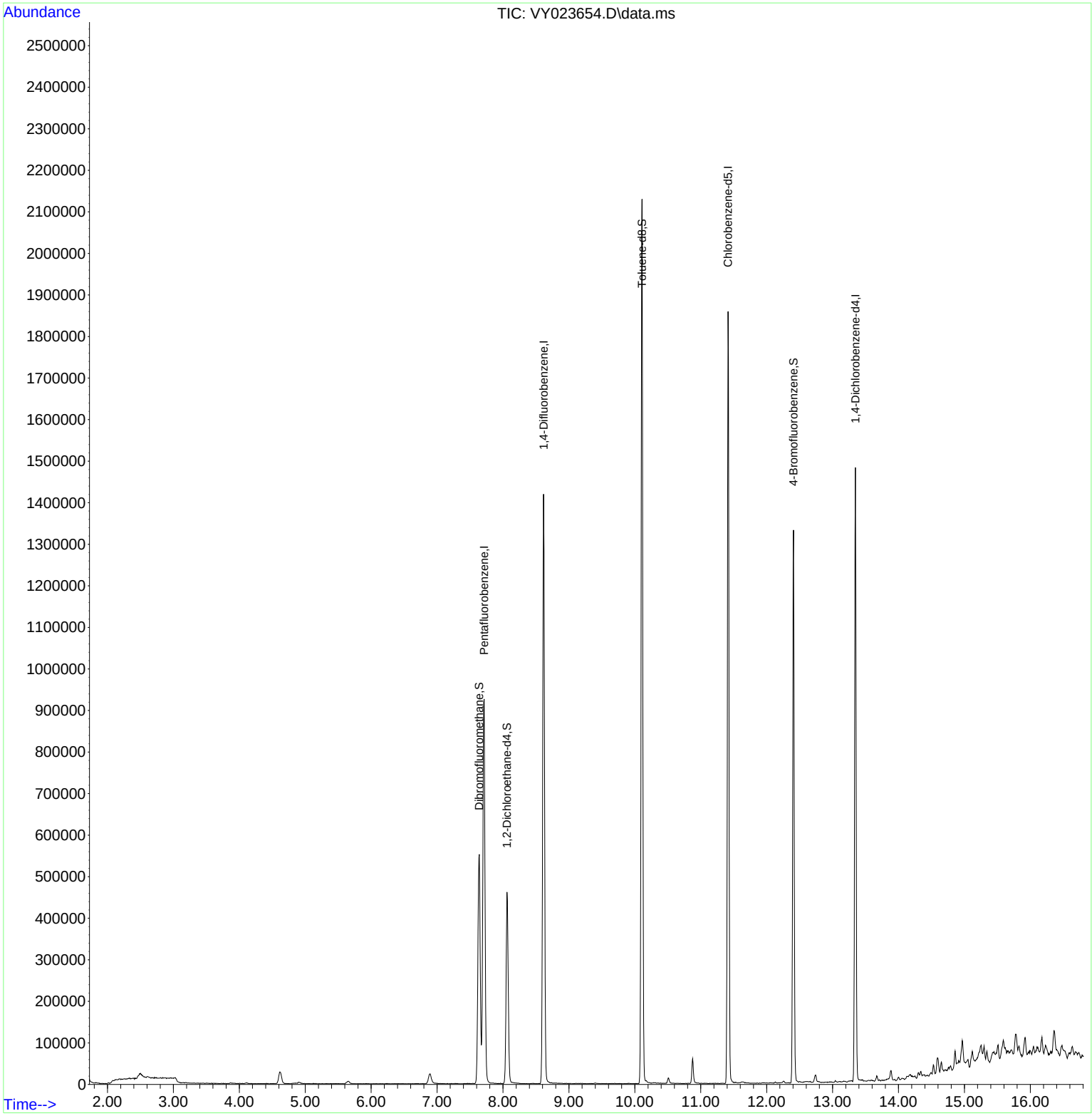
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	785311	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1293197	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1057990	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	399077	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	352574	53.690	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.380%			
35) Dibromofluoromethane	7.640	113	402441	50.646	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.300%			
50) Toluene-d8	10.109	98	1428414	48.270	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.540%			
62) 4-Bromofluorobenzene	12.408	95	396366	40.571	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 81.140%			
Target Compounds						Qvalue

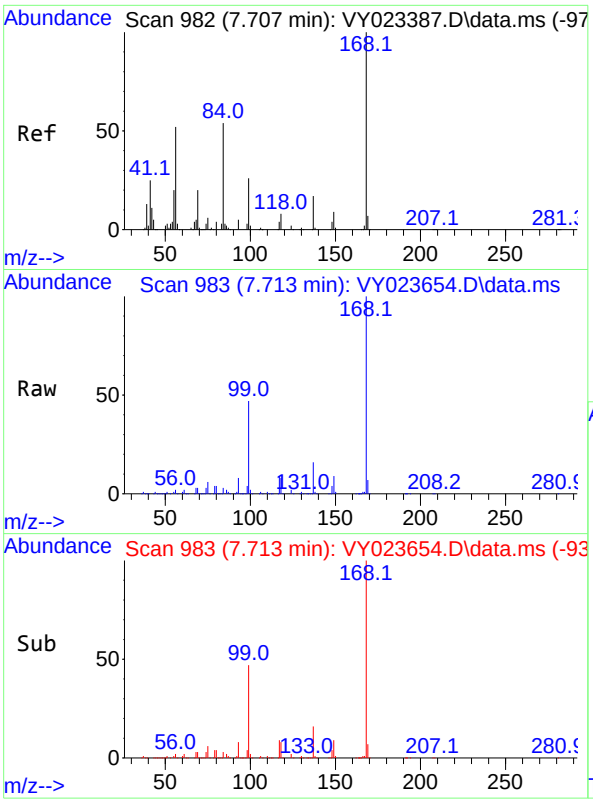
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023654.D
Acq On : 03 Nov 2025 13:26
Operator : SY/MD
Sample : Q3447-03
Misc : 3.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-TW2-251023-01

Quant Time: Nov 04 01:33:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration



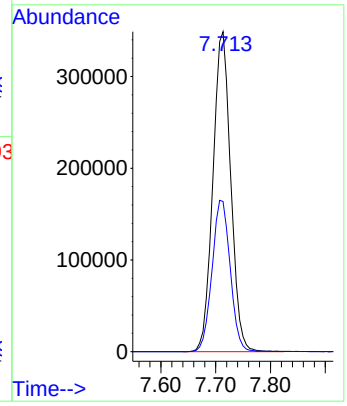


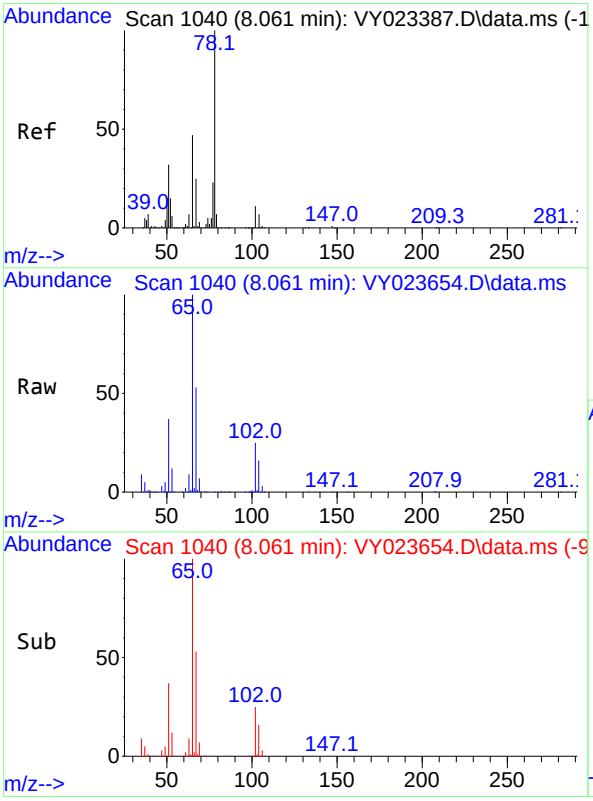
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023654.D
Acq: 03 Nov 2025 13:26

Instrument :
MSVOA_Y
ClientSampleId :
P001-TW2-251023-01

Tgt Ion:168 Resp: 785311

Ion	Ratio	Lower	Upper
168	100		
99	46.9	39.7	59.5

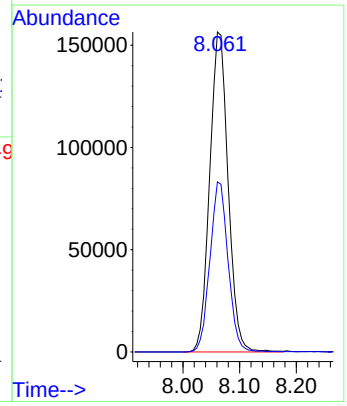


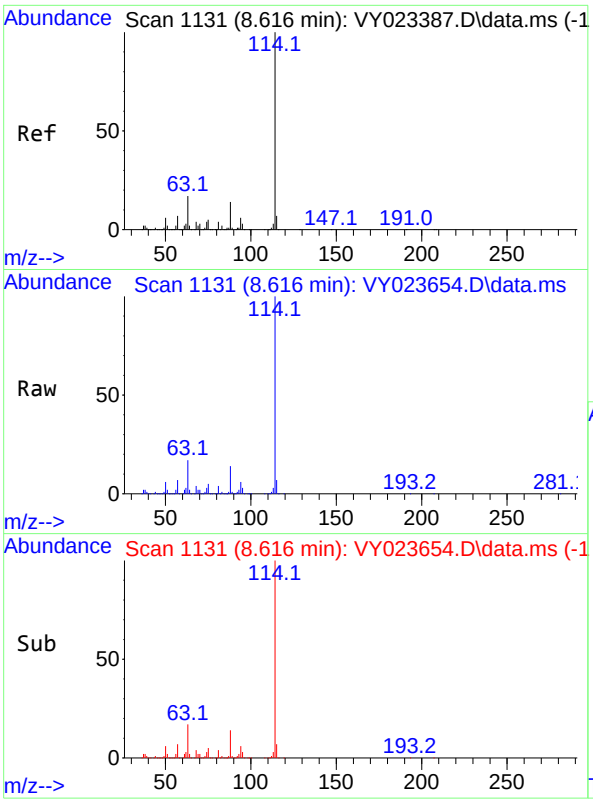


#33
1,2-Dichloroethane-d4
Concen: 53.690 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023654.D
Acq: 03 Nov 2025 13:26

Tgt Ion: 65 Resp: 352574

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	105.8



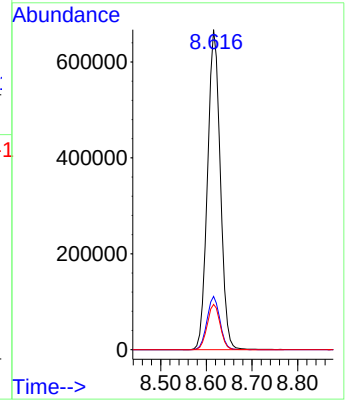


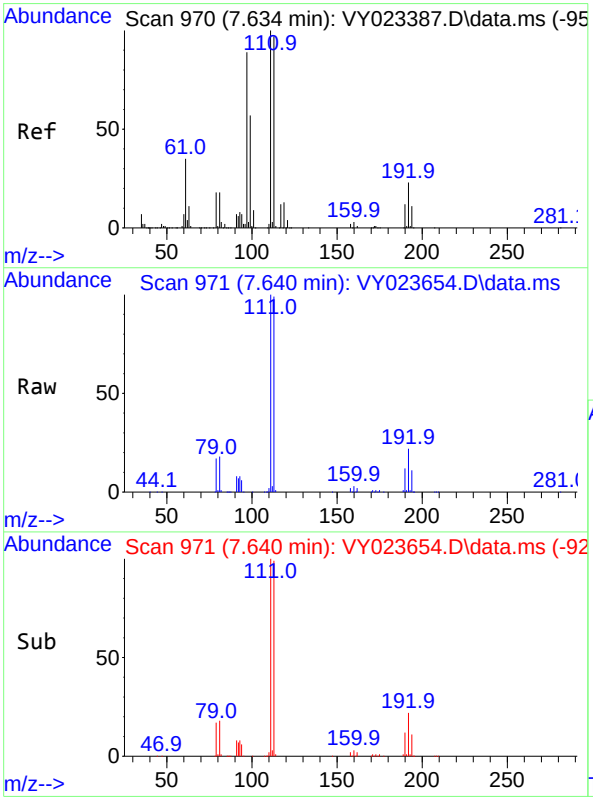
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023654.D
Acq: 03 Nov 2025 13:26

Instrument :
MSVOA_Y
ClientSampleId :
P001-TW2-251023-01

Tgt Ion:114 Resp: 1293197

Ion	Ratio	Lower	Upper
114	100		
63	16.7	0.0	34.2
88	14.2	0.0	28.4

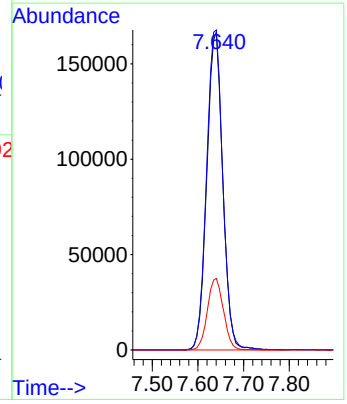


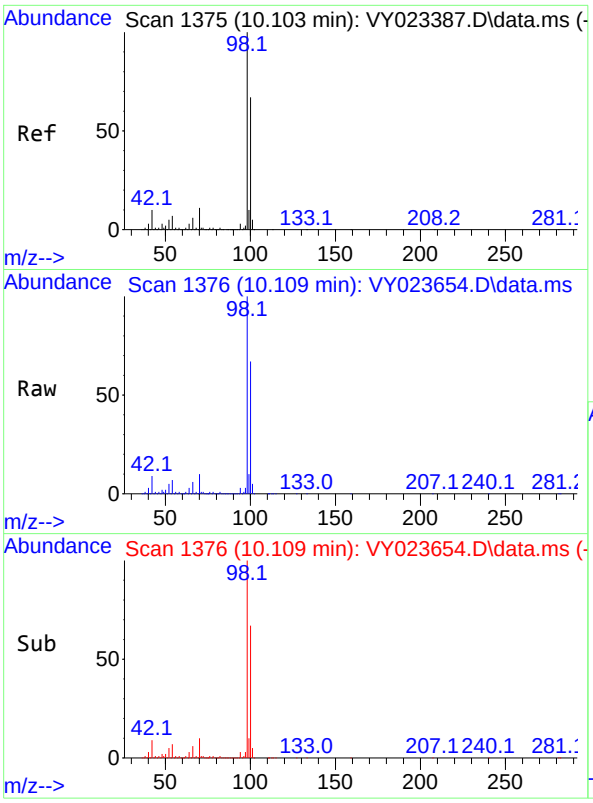


#35
Dibromofluoromethane
Concen: 50.646 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023654.D
Acq: 03 Nov 2025 13:26

Tgt Ion:113 Resp: 402441

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	22.7	18.0	27.0



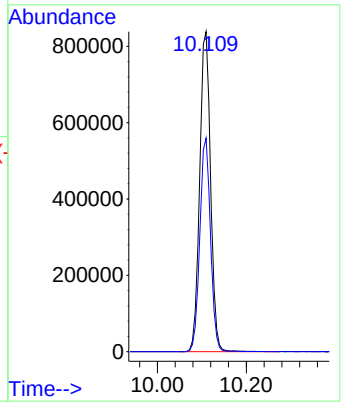


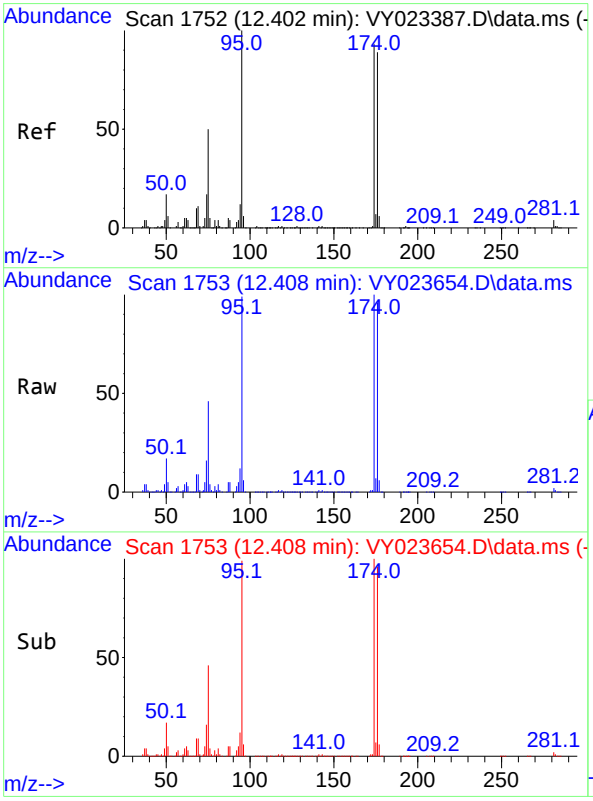
#50
Toluene-d8
Concen: 48.270 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023654.D
Acq: 03 Nov 2025 13:26

Instrument :
MSVOA_Y
ClientSampleId :
P001-TW2-251023-01

Tgt Ion: 98 Resp: 1428414

Ion	Ratio	Lower	Upper
98	100		
100	65.6	53.0	79.4

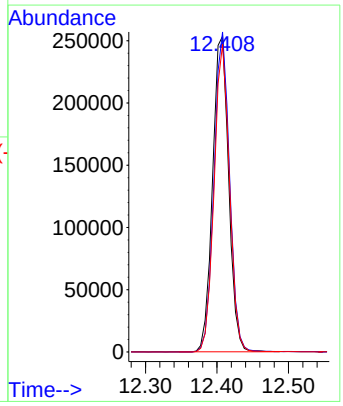


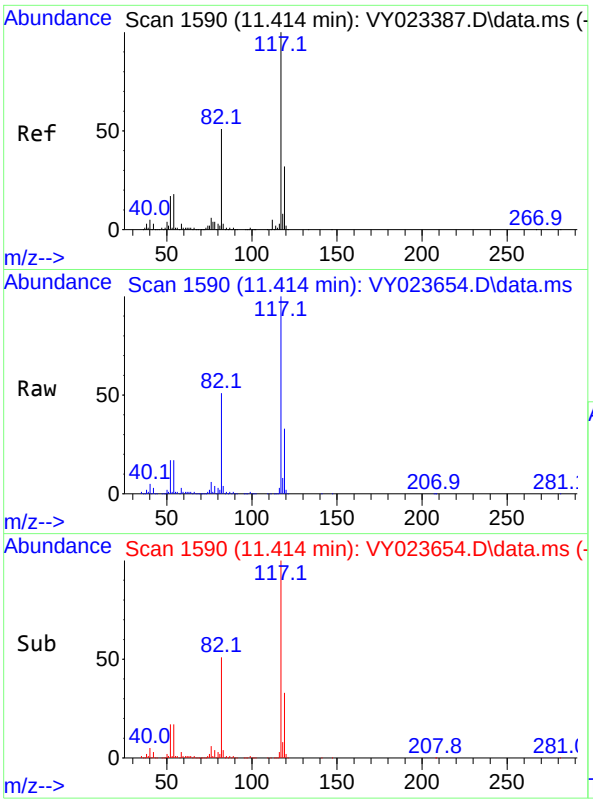


#62
4-Bromofluorobenzene
Concen: 40.571 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023654.D
Acq: 03 Nov 2025 13:26

Tgt Ion: 95 Resp: 396366

Ion	Ratio	Lower	Upper
95	100		
174	98.2	0.0	192.8
176	93.4	0.0	187.6



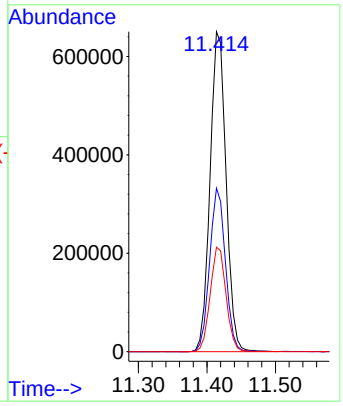


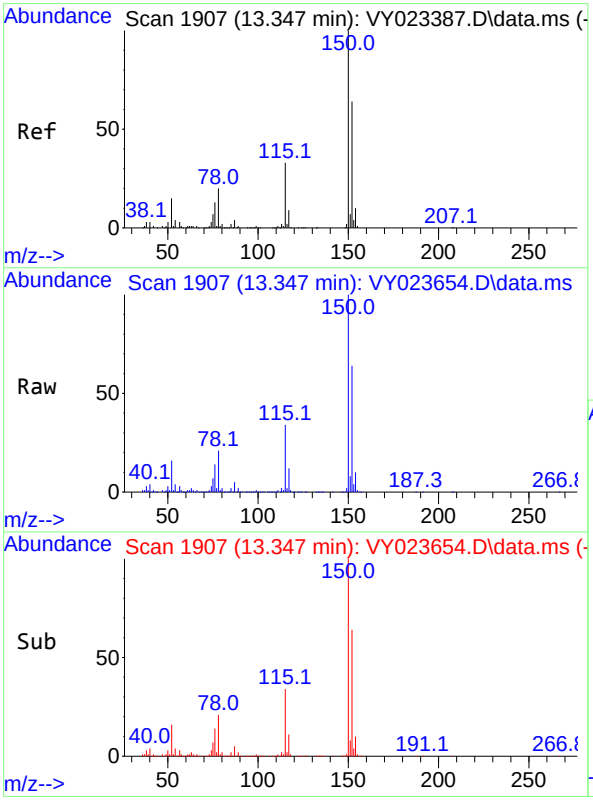
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023654.D
Acq: 03 Nov 2025 13:26

Instrument :
MSVOA_Y
ClientSampleId :
P001-TW2-251023-01

Tgt Ion:117 Resp: 1057990

Ion	Ratio	Lower	Upper
117	100		
82	51.1	41.0	61.4
119	32.7	25.6	38.4

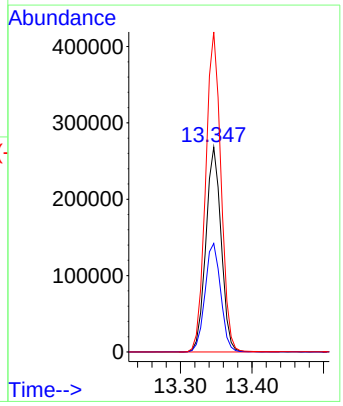




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY023654.D
Acq: 03 Nov 2025 13:26

Tgt Ion:152 Resp: 399077

Ion	Ratio	Lower	Upper
152	100		
115	54.2	27.1	81.2
150	156.6	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023654.D
Acq On : 03 Nov 2025 13:26
Operator : SY/MD
Sample : Q3447-03
Misc : 3.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-TW2-251023-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Title : SW846 8260

Signal : TIC: VY023654.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.616	466	475	487	rVB2	28076	86932	2.40%	0.448%
2	6.890	836	848	861	rBV2	23975	80910	2.23%	0.417%
3	7.640	959	971	976	rBV	551699	1335580	36.85%	6.879%
4	7.713	976	983	1000	rVB	924687	2124947	58.62%	10.945%
5	8.061	1031	1040	1051	rBV	460902	1017645	28.08%	5.242%
6	8.616	1122	1131	1147	rBV	1418658	2771744	76.47%	14.277%
7	10.109	1366	1376	1385	rBV	2128796	3624655	100.00%	18.670%
8	10.877	1495	1502	1508	rBV	59323	100096	2.76%	0.516%
9	11.414	1582	1590	1602	rBV	1858101	3014814	83.18%	15.529%
10	12.408	1745	1753	1765	rBV	1330738	2090875	57.68%	10.770%
11	13.347	1900	1907	1916	rBV	1478197	2231189	61.56%	11.492%
12	13.883	1990	1995	2000	rVB2	22522	40575	1.12%	0.209%
13	14.590	2106	2111	2117	rBV2	37578	78502	2.17%	0.404%
14	14.651	2117	2121	2127	rVV7	24513	42197	1.16%	0.217%
15	14.858	2151	2155	2158	rBV3	40363	59478	1.64%	0.306%
16	14.968	2167	2173	2179	rBV2	52669	99670	2.75%	0.513%
17	15.121	2192	2198	2205	rBV5	36541	95942	2.65%	0.494%
18	15.340	2231	2234	2241	rVB8	27662	43992	1.21%	0.227%
19	15.779	2301	2306	2311	rBV3	46903	104395	2.88%	0.538%
20	15.919	2324	2329	2334	rVB3	41415	79037	2.18%	0.407%
21	16.175	2367	2371	2376	rVB2	40008	63457	1.75%	0.327%
22	16.358	2396	2401	2415	rVB10	61374	167615	4.62%	0.863%
23	16.480	2416	2421	2427	rBV10	23686	60096	1.66%	0.310%

Sum of corrected areas: 19414343

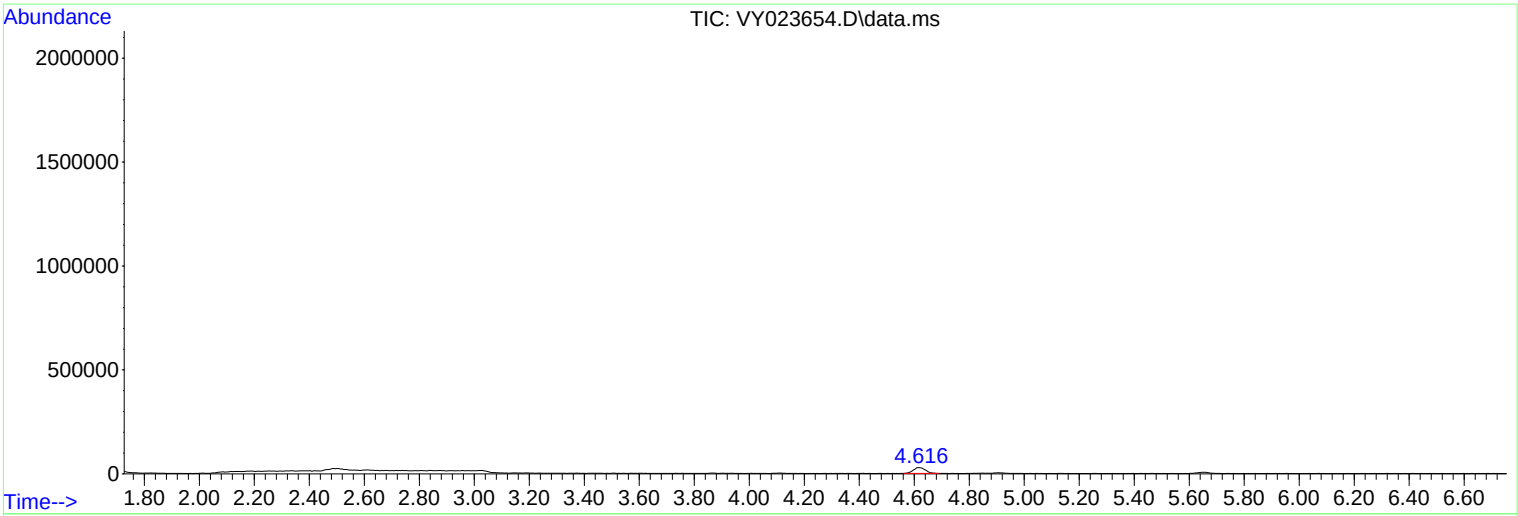
Sample Results: **VY023654.D**

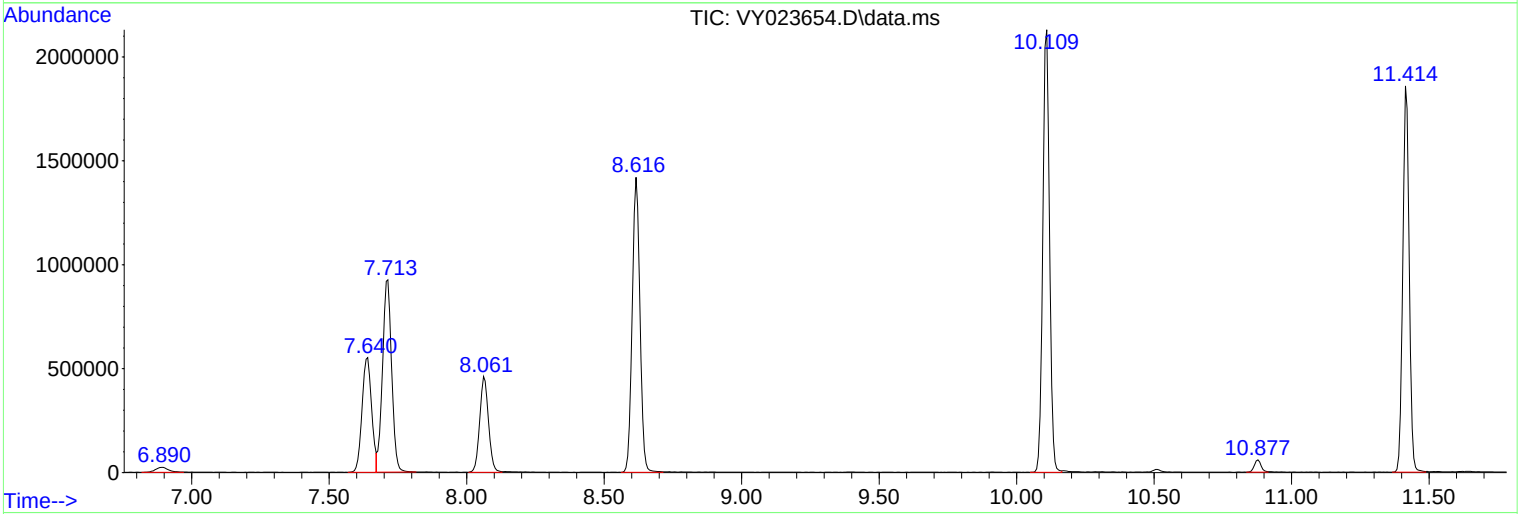
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023654.D
Acq On : 03 Nov 2025 13:26
Operator : SY/MD
Sample : Q3447-03
Misc : 3.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

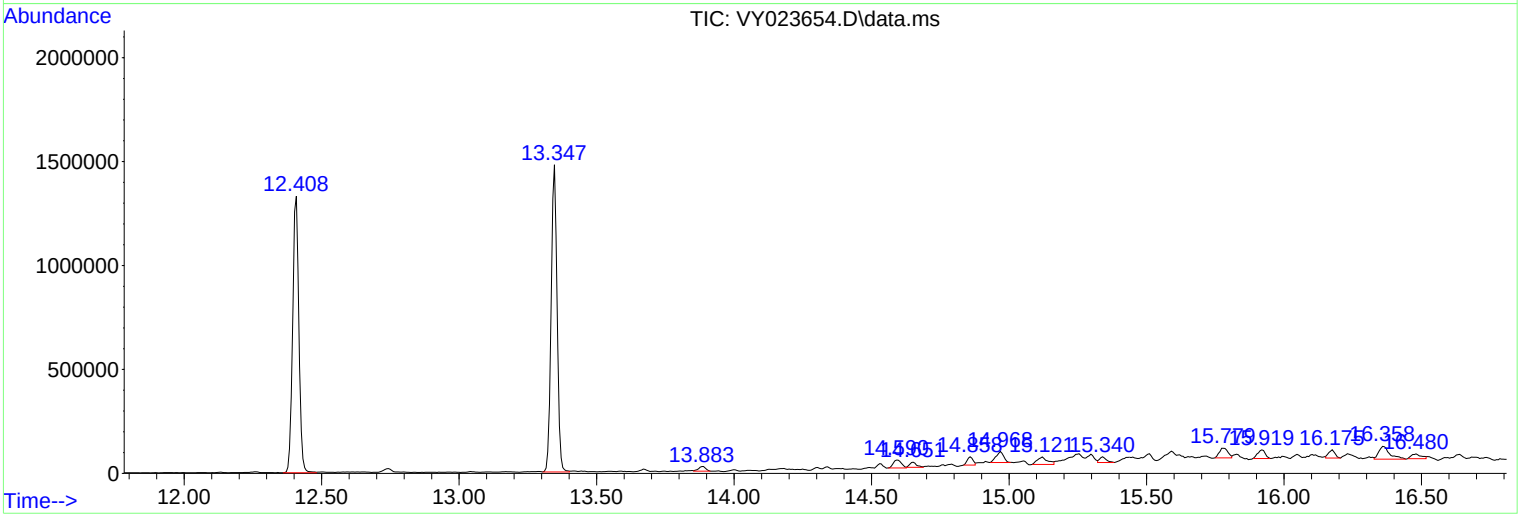
Instrument :
MSVOA_Y
ClientSampleId :
P001-TW2-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023654.D
Acq On : 03 Nov 2025 13:26
Operator : SY/MD
Sample : Q3447-03
Misc : 3.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-TW2-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023654.D
Acq On : 03 Nov 2025 13:26
Operator : SY/MD
Sample : Q3447-03
Misc : 3.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
P001-TW2-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/23/25	
Project:	RFP 905		Date Received:	10/23/25	
Client Sample ID:	P001-TW3-251023-01		SDG No.:	Q3447	
Lab Sample ID:	Q3447-05	Soil Aliquot Vol: 100 uL	Matrix:	SOIL	
Analytical Method:	8260D	Level: MED	% Solid:	97.8	
Sample Wt/Vol:	5 g	Final Vol: 10000 uL	Test:	VOC-TCLVOA-10	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	120	U	1	120	510	ug/Kg	10/31/25 14:00	VN103125
74-87-3	Chloromethane	120	U	1	120	510	ug/Kg	10/31/25 14:00	VN103125
75-01-4	Vinyl Chloride	80.8	U	1	80.8	510	ug/Kg	10/31/25 14:00	VN103125
74-83-9	Bromomethane	110	U	1	110	510	ug/Kg	10/31/25 14:00	VN103125
75-00-3	Chloroethane	130	U	1	130	510	ug/Kg	10/31/25 14:00	VN103125
75-69-4	Trichlorofluoromethane	120	U	1	120	510	ug/Kg	10/31/25 14:00	VN103125
76-13-1	1,1,2-Trichlorotrifluoroethane	110	U	1	110	510	ug/Kg	10/31/25 14:00	VN103125
75-35-4	1,1-Dichloroethene	100	U	1	100	510	ug/Kg	10/31/25 14:00	VN103125
67-64-1	Acetone	2300	J	1	480	2600	ug/Kg	10/31/25 14:00	VN103125
75-15-0	Carbon Disulfide	110	U	1	110	510	ug/Kg	10/31/25 14:00	VN103125
1634-04-4	Methyl tert-butyl Ether	74.6	U	1	74.6	510	ug/Kg	10/31/25 14:00	VN103125
79-20-9	Methyl Acetate	1500		1	160	510	ug/Kg	10/31/25 14:00	VN103125
75-09-2	Methylene Chloride	360	U	1	360	1000	ug/Kg	10/31/25 14:00	VN103125
156-60-5	trans-1,2-Dichloroethene	87.9	U	1	87.9	510	ug/Kg	10/31/25 14:00	VN103125
75-34-3	1,1-Dichloroethane	81.8	U	1	81.8	510	ug/Kg	10/31/25 14:00	VN103125
110-82-7	Cyclohexane	80.8	U	1	80.8	510	ug/Kg	10/31/25 14:00	VN103125
78-93-3	2-Butanone	670	U	1	670	2600	ug/Kg	10/31/25 14:00	VN103125
56-23-5	Carbon Tetrachloride	99.2	U	1	99.2	510	ug/Kg	10/31/25 14:00	VN103125
156-59-2	cis-1,2-Dichloroethene	76.7	U	1	76.7	510	ug/Kg	10/31/25 14:00	VN103125
74-97-5	Bromochloromethane	120	U	1	120	510	ug/Kg	10/31/25 14:00	VN103125
67-66-3	Chloroform	85.9	U	1	85.9	510	ug/Kg	10/31/25 14:00	VN103125
71-55-6	1,1,1-Trichloroethane	95.1	U	1	95.1	510	ug/Kg	10/31/25 14:00	VN103125
108-87-2	Methylcyclohexane	93.0	U	1	93.0	510	ug/Kg	10/31/25 14:00	VN103125
71-43-2	Benzene	190	J	1	80.8	510	ug/Kg	10/31/25 14:00	VN103125
107-06-2	1,2-Dichloroethane	80.8	U	1	80.8	510	ug/Kg	10/31/25 14:00	VN103125
79-01-6	Trichloroethene	82.8	U	1	82.8	510	ug/Kg	10/31/25 14:00	VN103125
78-87-5	1,2-Dichloropropane	93.0	U	1	93.0	510	ug/Kg	10/31/25 14:00	VN103125
75-27-4	Bromodichloromethane	79.8	U	1	79.8	510	ug/Kg	10/31/25 14:00	VN103125
108-10-1	4-Methyl-2-Pentanone	370	U	1	370	2600	ug/Kg	10/31/25 14:00	VN103125
108-88-3	Toluene	1000		1	79.8	510	ug/Kg	10/31/25 14:00	VN103125
10061-02-6	t-1,3-Dichloropropene	66.5	U	1	66.5	510	ug/Kg	10/31/25 14:00	VN103125
10061-01-5	cis-1,3-Dichloropropene	63.4	U	1	63.4	510	ug/Kg	10/31/25 14:00	VN103125
79-00-5	1,1,2-Trichloroethane	94.1	U	1	94.1	510	ug/Kg	10/31/25 14:00	VN103125
591-78-6	2-Hexanone	380	U	1	380	2600	ug/Kg	10/31/25 14:00	VN103125
124-48-1	Dibromochloromethane	89.0	U	1	89.0	510	ug/Kg	10/31/25 14:00	VN103125
106-93-4	1,2-Dibromoethane	90.0	U	1	90.0	510	ug/Kg	10/31/25 14:00	VN103125
127-18-4	Tetrachloroethene	110	U	1	110	510	ug/Kg	10/31/25 14:00	VN103125
108-90-7	Chlorobenzene	93.0	U	1	93.0	510	ug/Kg	10/31/25 14:00	VN103125
100-41-4	Ethyl Benzene	240	J	1	68.5	510	ug/Kg	10/31/25 14:00	VN103125
179601-23-1	m/p-Xylenes	130	U	1	130	1000	ug/Kg	10/31/25 14:00	VN103125
95-47-6	o-Xylene	83.8	U	1	83.8	510	ug/Kg	10/31/25 14:00	VN103125
100-42-5	Styrene	72.6	U	1	72.6	510	ug/Kg	10/31/25 14:00	VN103125
75-25-2	Bromoform	87.9	U	1	87.9	510	ug/Kg	10/31/25 14:00	VN103125

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/23/25
Project:	RFP 905		Date Received:	10/23/25
Client Sample ID:	P001-TW3-251023-01		SDG No.:	Q3447
Lab Sample ID:	Q3447-05	Soil Aliquot Vol: 100 uL	Matrix:	SOIL
Analytical Method:	8260D	Level: MED	% Solid:	97.8
Sample Wt/Vol:	5 g	Final Vol: 10000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	79.8	U	1	79.8	510	ug/Kg	10/31/25 14:00	VN103125
79-34-5	1,1,2,2-Tetrachloroethane	120	U	1	120	510	ug/Kg	10/31/25 14:00	VN103125
541-73-1	1,3-Dichlorobenzene	170	U	1	170	510	ug/Kg	10/31/25 14:00	VN103125
106-46-7	1,4-Dichlorobenzene	160	U	1	160	510	ug/Kg	10/31/25 14:00	VN103125
95-50-1	1,2-Dichlorobenzene	150	U	1	150	510	ug/Kg	10/31/25 14:00	VN103125
96-12-8	1,2-Dibromo-3-Chloropropane	190	U	1	190	510	ug/Kg	10/31/25 14:00	VN103125
120-82-1	1,2,4-Trichlorobenzene	300	U	1	300	510	ug/Kg	10/31/25 14:00	VN103125
87-61-6	1,2,3-Trichlorobenzene	330	U	1	330	510	ug/Kg	10/31/25 14:00	VN103125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	64.9			63 - 155	130%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.4			70 - 134	101%	SPK: 50		
2037-26-5	Toluene-d8	50.6			74 - 123	101%	SPK: 50		
460-00-4	4-Bromofluorobenzene	53.1			17 - 146	106%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	275000							
540-36-3	1,4-Difluorobenzene	633000							
3114-55-4	Chlorobenzene-d5	587000							
3855-82-1	1,4-Dichlorobenzene-d4	297000							
TENTATIVE IDENTIFIED COMPOUNDS									
000939-27-5	Naphthalene, 2-ethyl-	3500	J			13.3	ug/Kg		
000575-43-9	Naphthalene, 1,6-dimethyl-	3500	J			13.6	ug/Kg		
99-87-6	p-Isopropyltoluene	270	J			13.7	ug/Kg		
000581-40-8	Naphthalene, 2,3-dimethyl-	7200	J			14.0	ug/Kg		
000575-37-1	Naphthalene, 1,7-dimethyl-	6000	J			14.1	ug/Kg		
000582-16-1	Naphthalene, 2,7-dimethyl-	2300	J			14.5	ug/Kg		
000575-41-7	Naphthalene, 1,3-dimethyl-	1800	J			14.8	ug/Kg		
002027-17-0	Naphthalene, 2-(1-methylethyl)-	3000	J			15.6	ug/Kg		

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\VN103125\
Data File : VN088185.D
Acq On : 31 Oct 2025 14:00
Operator : JC\MD
Sample : Q3447-05
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 01 00:33:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.200	168	274616	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	633049	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	586791	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	297155	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	307963	64.852	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 129.700%#			
35) Dibromofluoromethane	8.147	113	214505	50.438	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.880%			
50) Toluene-d8	10.541	98	829166	50.599	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.200%			
62) 4-Bromofluorobenzene	12.829	95	307374	53.112	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.220%			
Target Compounds						Qvalue
16) Acetone	4.436	43	54163	22.703	ug/l	95
18) Methyl Acetate	5.018	43	69936	14.319	ug/l	99
25) 2-Butanone	7.488	43	18114m	5.762	ug/l	
40) Benzene	8.582	78	34991	1.850	ug/l	100
52) Toluene	10.606	92	119407	10.241	ug/l	100
67) Ethyl Benzene	11.941	91	55323	2.365	ug/l	99
86) p-Isopropyltoluene	13.706	119	52660	2.628	ug/l	92

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

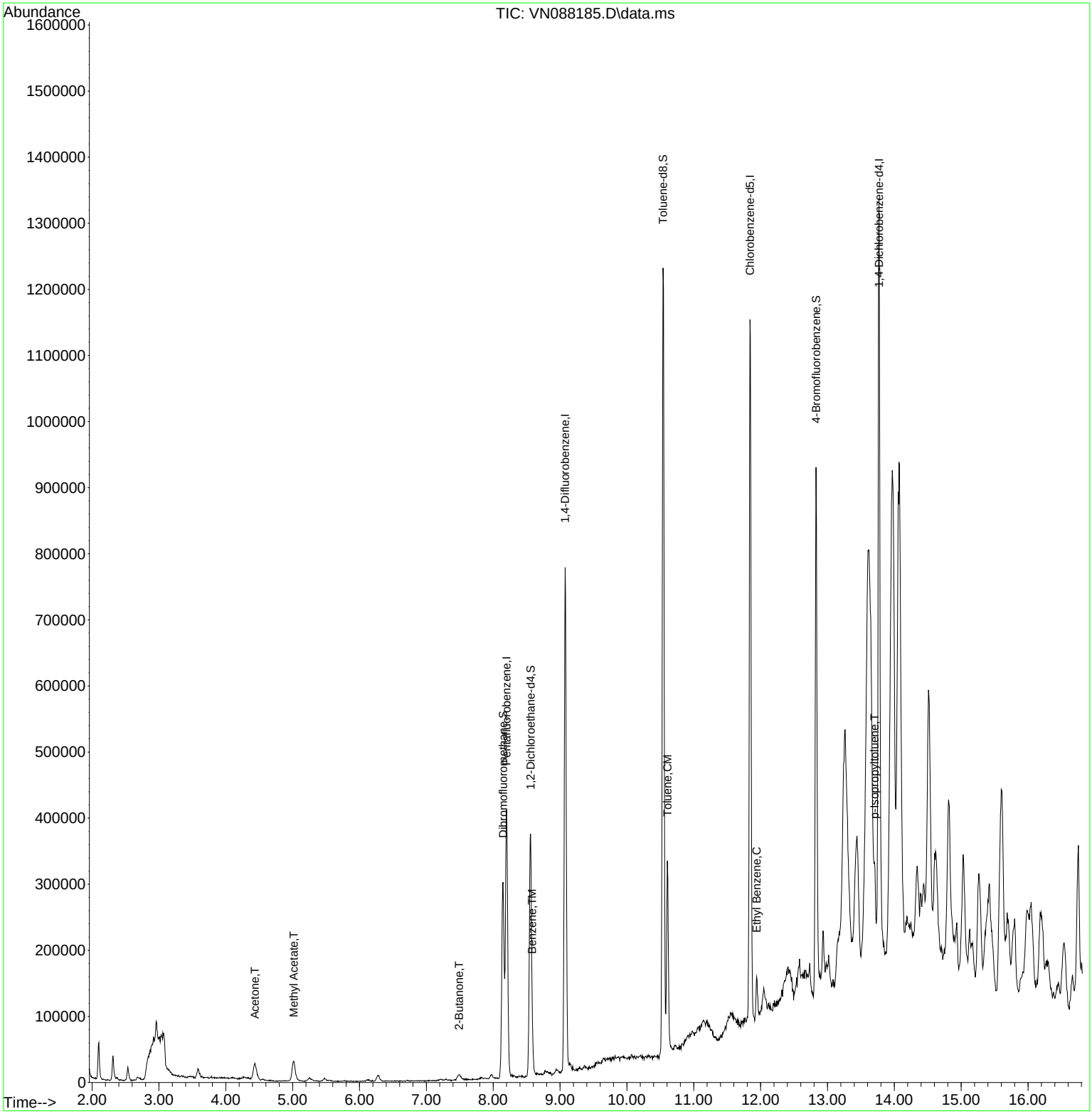
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088185.D
Acq On : 31 Oct 2025 14:00
Operator : JC\MD
Sample : Q3447-05
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 14 Sample Multiplier: 1

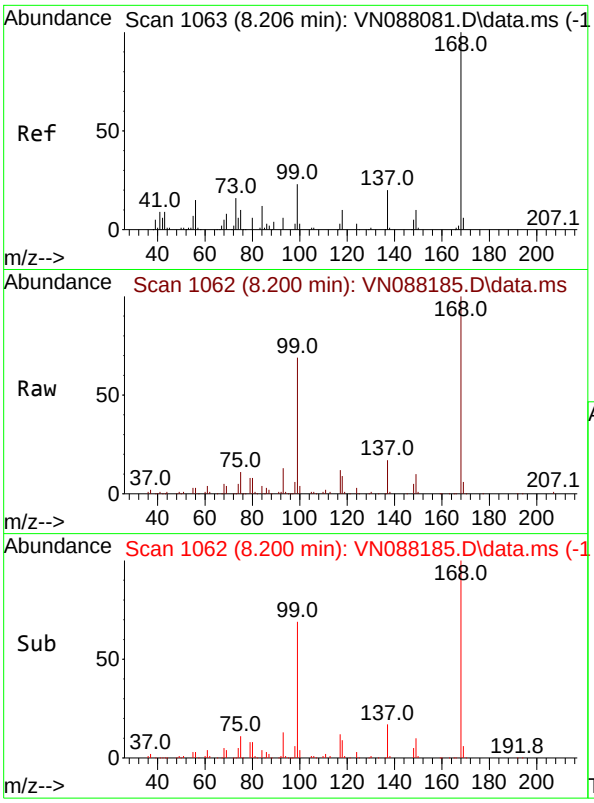
Quant Time: Nov 01 00:33:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

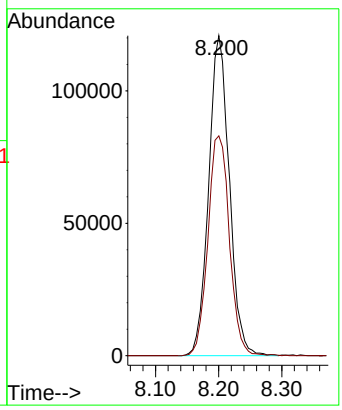




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

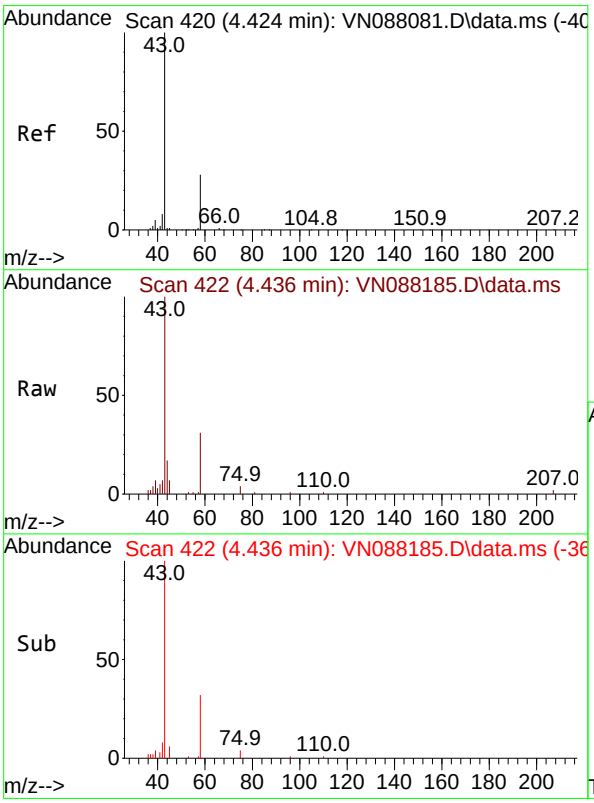
Tgt Ion:168 Resp: 27461

Ion	Ratio	Lower	Upper
168	100		
99	68.7	57.2	85.8



Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

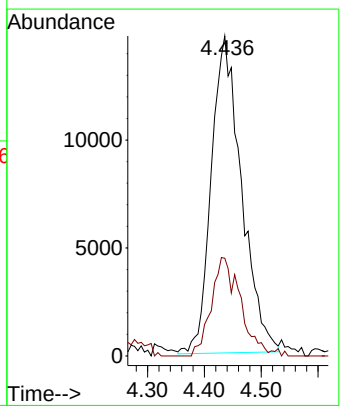
Manual Integrations
APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

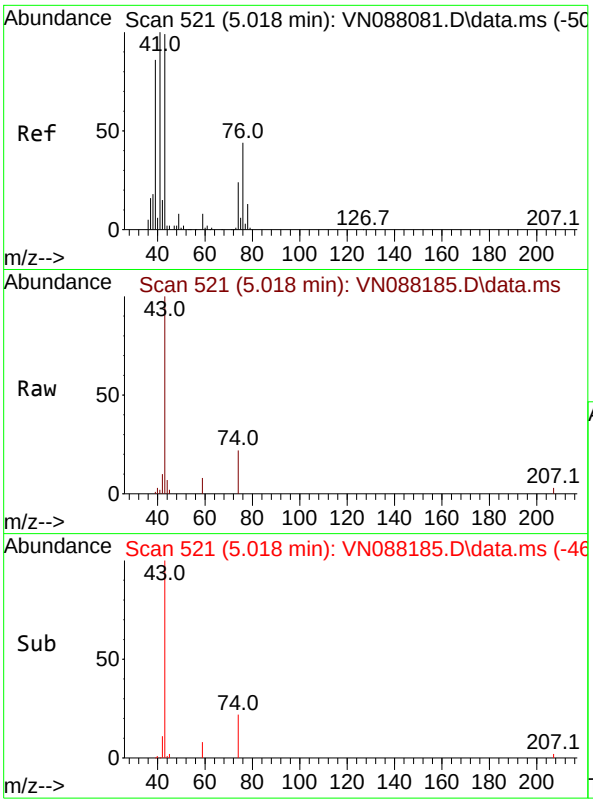


#16
Acetone
Concen: 22.703 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 43 Resp: 54163

Ion	Ratio	Lower	Upper
43	100		
58	31.0	22.6	33.8





#18
Methyl Acetate
Concen: 14.319 ug/l
RT: 5.018 min Scan# 5
Delta R.T. 0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

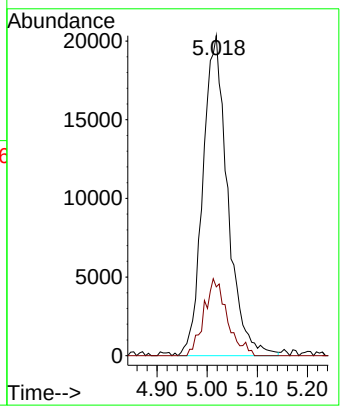
Tgt Ion: 43 Resp: 6993

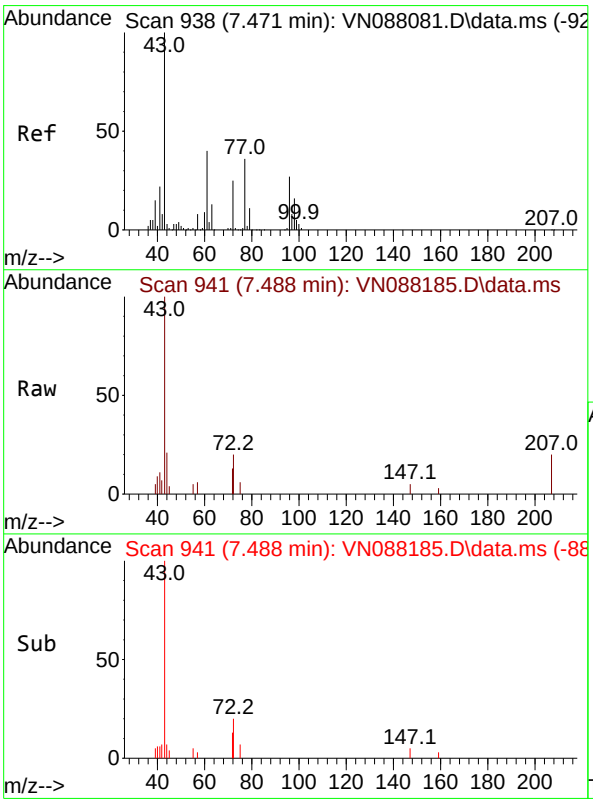
Ion	Ratio	Lower	Upper
43	100		
74	22.5	17.6	26.4

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

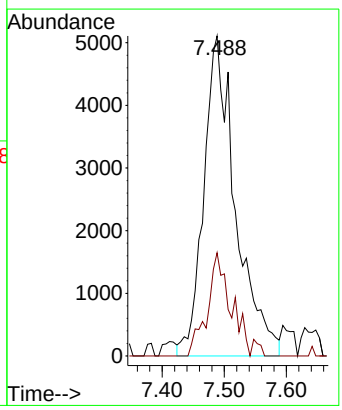


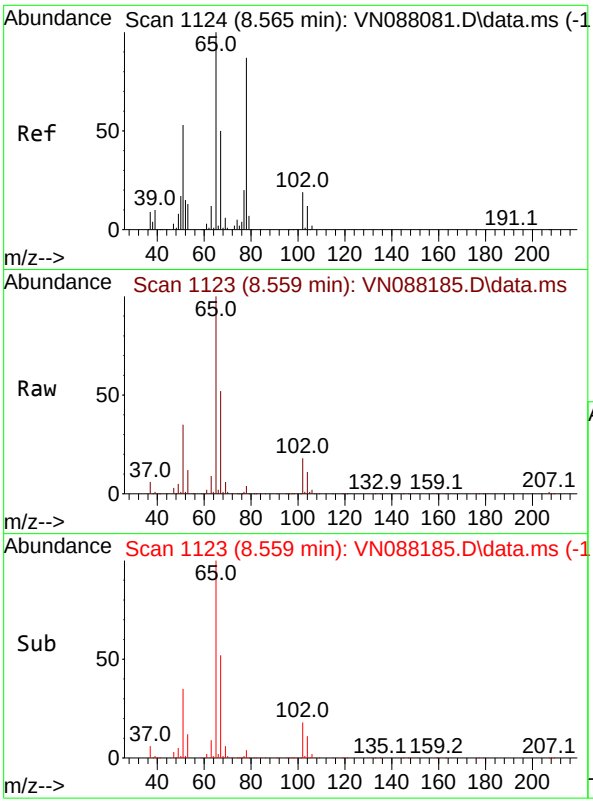


#25
2-Butanone
Concen: 5.762 ug/l m
RT: 7.488 min Scan# 941
Delta R.T. 0.023 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 43 Resp: 18114

Ion	Ratio	Lower	Upper
43	100		
72	19.8	19.9	29.9#





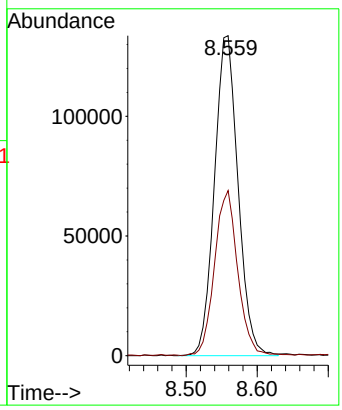
#33
1,2-Dichloroethane-d4
Concen: 64.852 ug/l
RT: 8.559 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

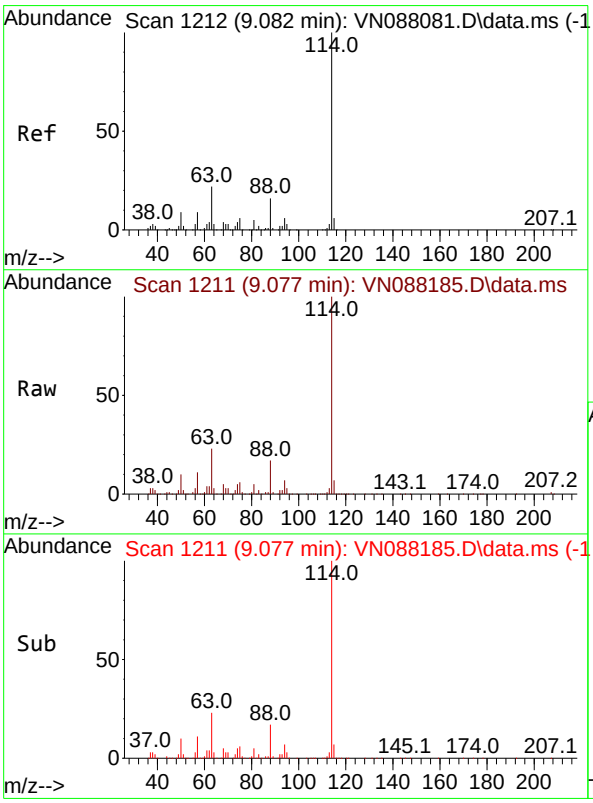
Tgt Ion: 65 Resp: 30796

Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	100.0

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

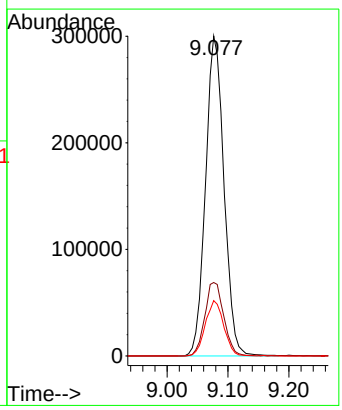


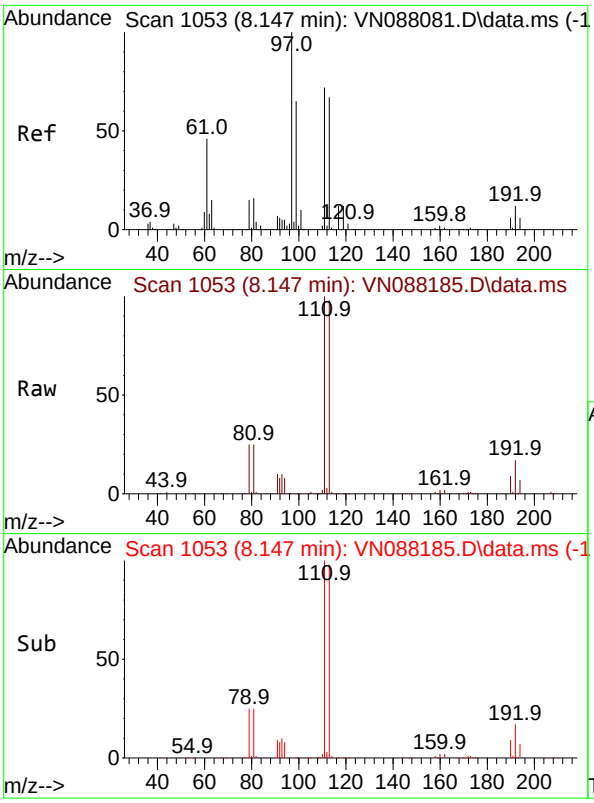


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.077 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion:114 Resp: 633049

Ion	Ratio	Lower	Upper
114	100		
63	22.9	0.0	45.2
88	17.3	0.0	33.4

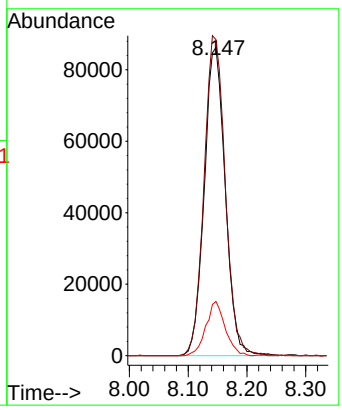




#35
Dibromofluoromethane
Concen: 50.438 ug/l
RT: 8.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

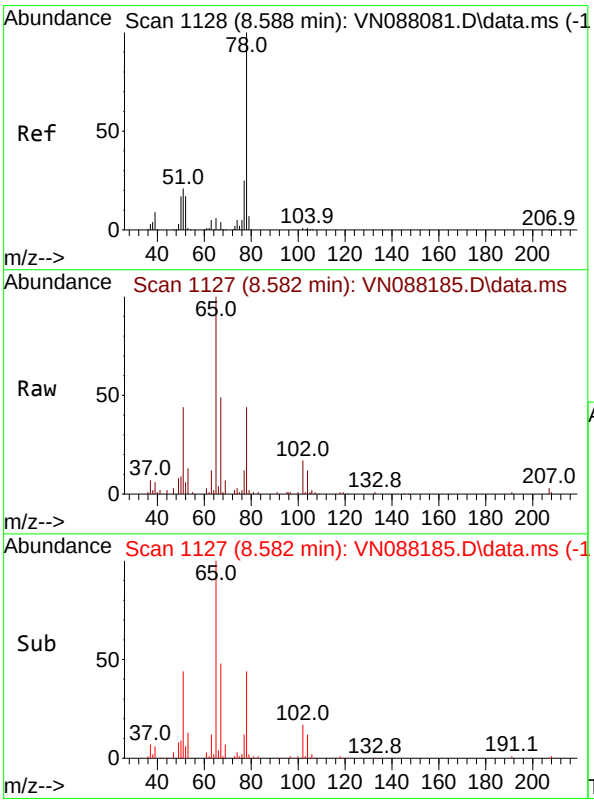
Tgt Ion:113 Resp: 21450

Ion	Ratio	Lower	Upper
113	100		
111	104.7	82.8	124.2
192	16.2	12.8	19.2



Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

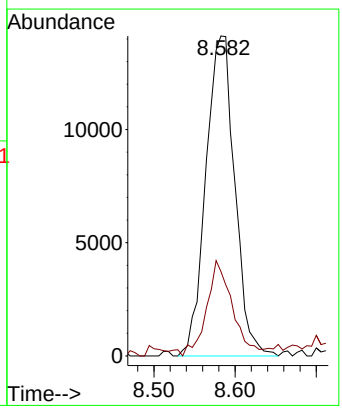
Manual Integrations APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

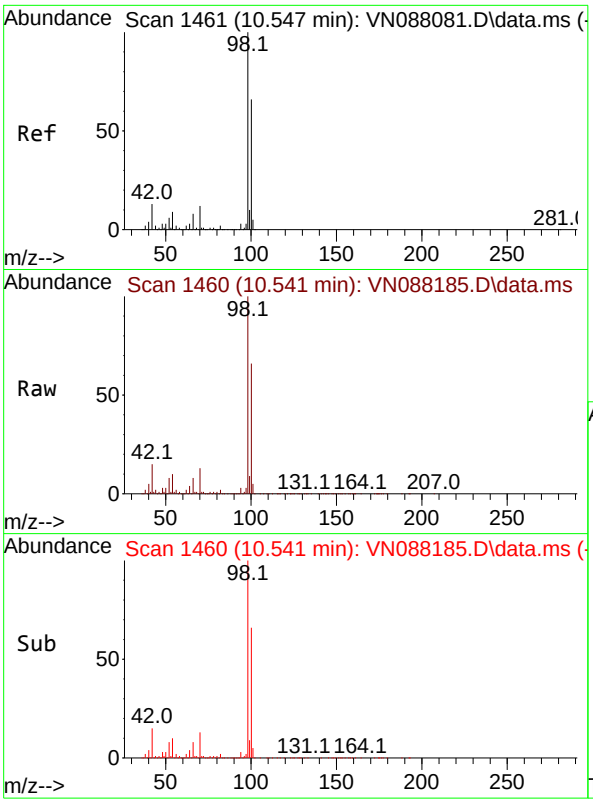


#40
Benzene
Concen: 1.850 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 78 Resp: 34991

Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.7	29.5





#50
Toluene-d8
Concen: 50.599 ug/l
RT: 10.541 min Scan# 14
Delta R.T. -0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

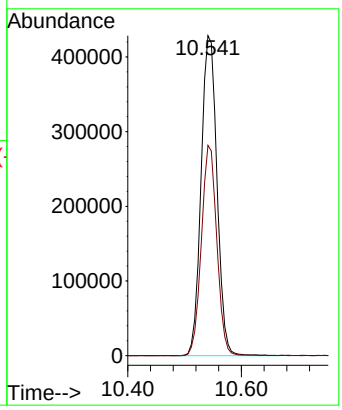
Tgt Ion: 98 Resp: 82916(

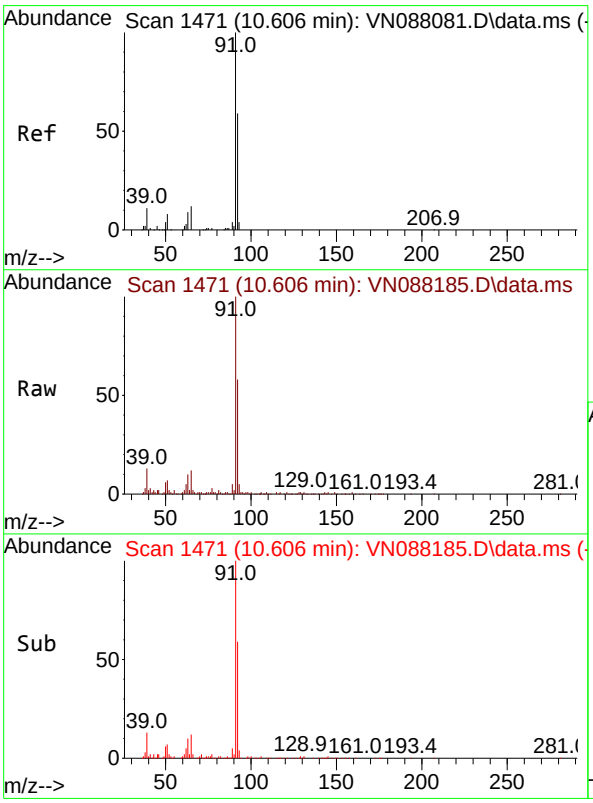
Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.8	79.2

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

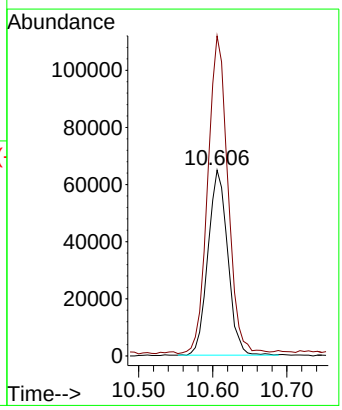


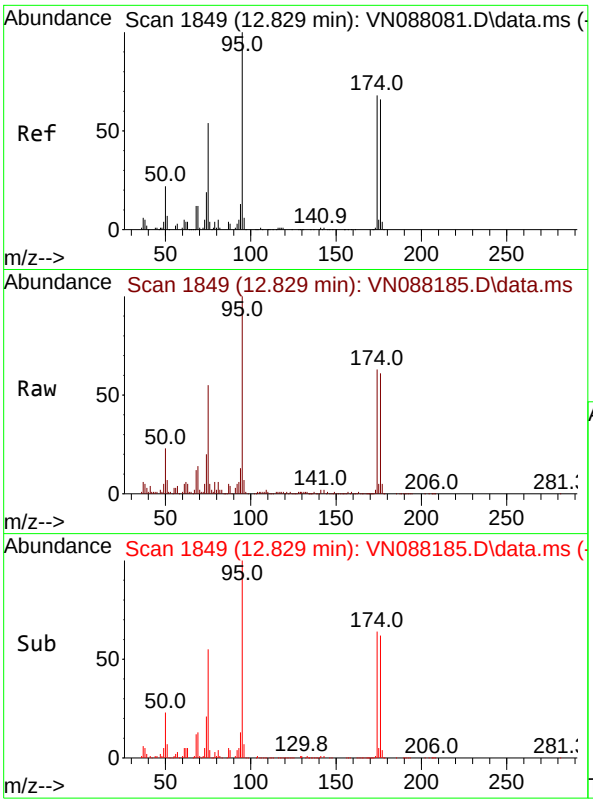


#52
Toluene
Concen: 10.241 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion: 92 Resp: 119407

Ion	Ratio	Lower	Upper
92	100		
91	175.2	140.4	210.6

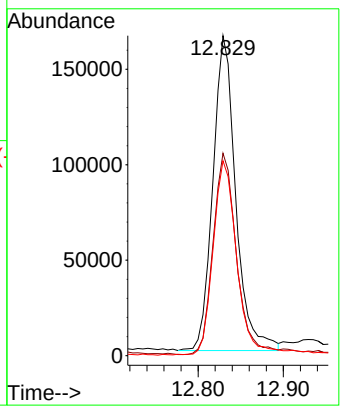




#62
4-Bromofluorobenzene
Concen: 53.112 ug/l
RT: 12.829 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

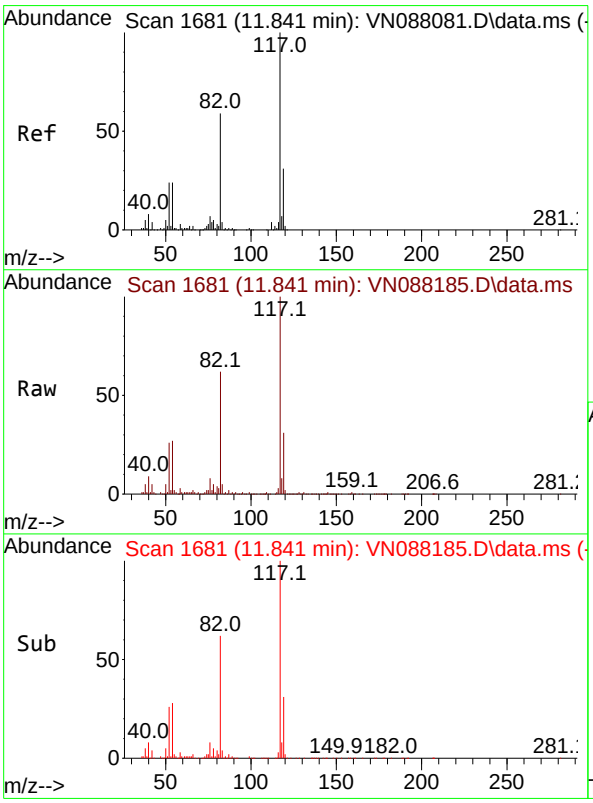
Tgt Ion: 95 Resp: 30737

Ion	Ratio	Lower	Upper
95	100		
174	65.3	0.0	138.4
176	65.6	0.0	132.6



Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

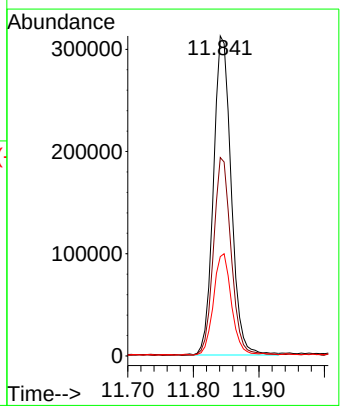
Manual Integrations
APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

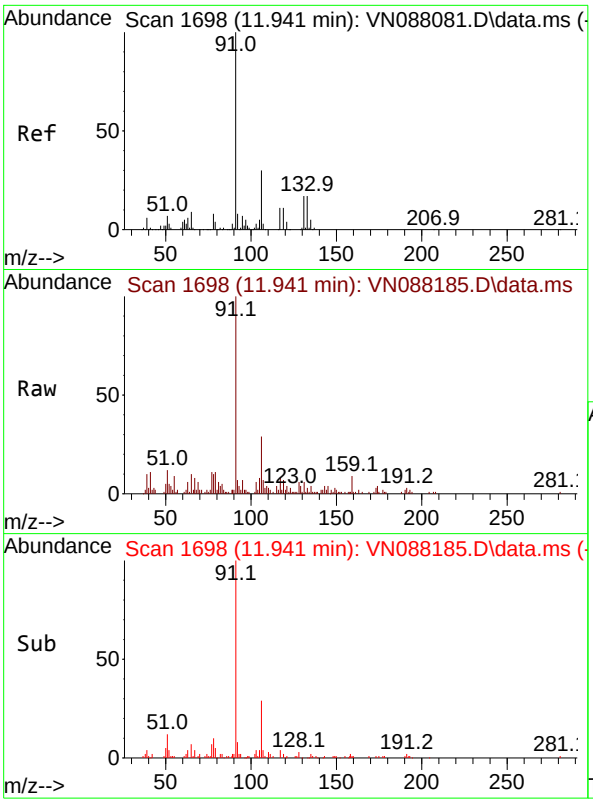


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion:117 Resp: 586791

Ion	Ratio	Lower	Upper
117	100		
82	61.8	47.4	71.2
119	30.8	24.3	36.5





#67
Ethyl Benzene
Concen: 2.365 ug/l
RT: 11.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

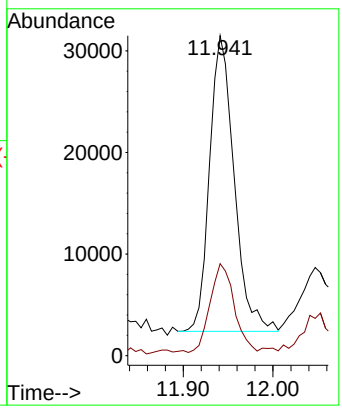
Tgt Ion: 91 Resp: 5532

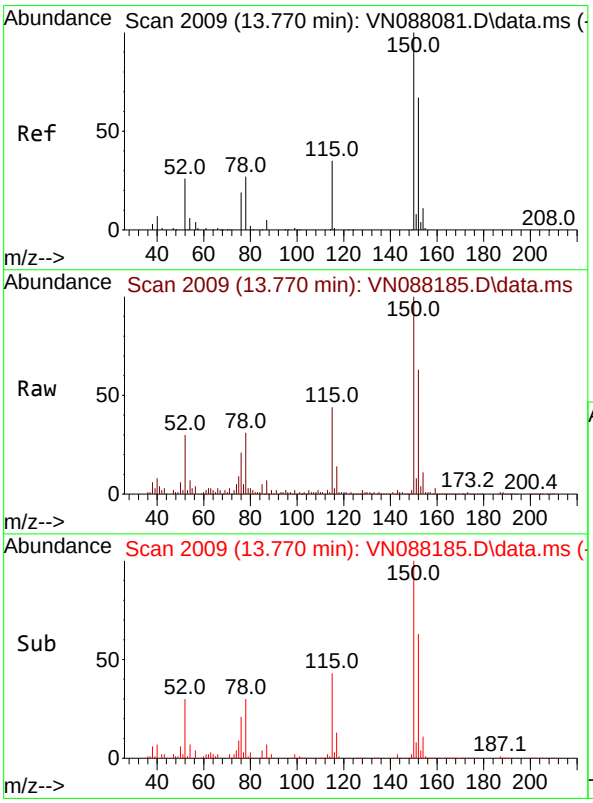
Ion	Ratio	Lower	Upper
91	100		
106	29.6	24.1	36.1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

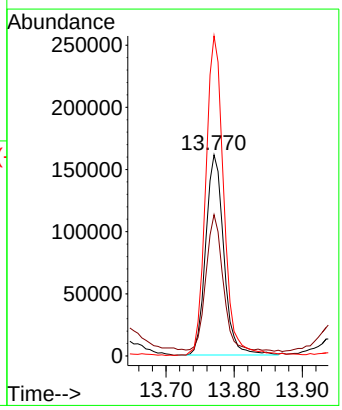


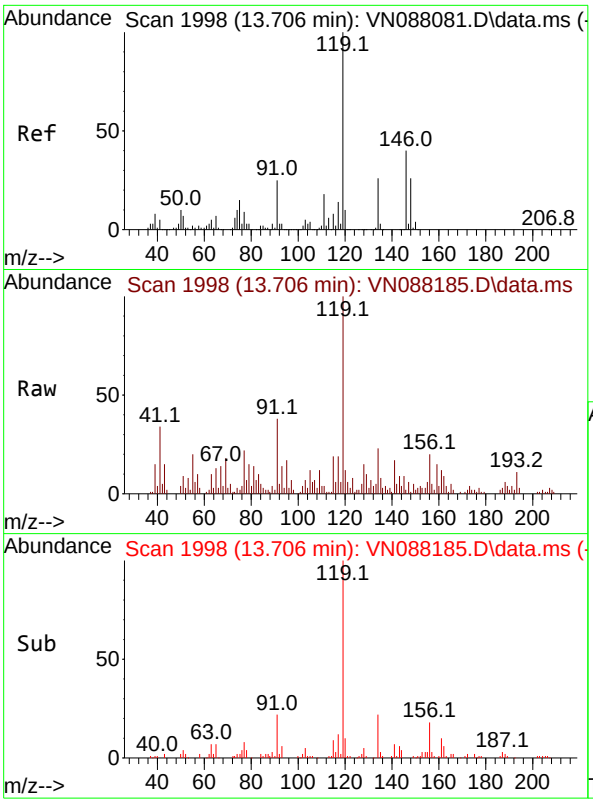


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion:152 Resp: 297155

Ion	Ratio	Lower	Upper
152	100		
115	66.1	32.3	96.8
150	159.1	0.0	351.0

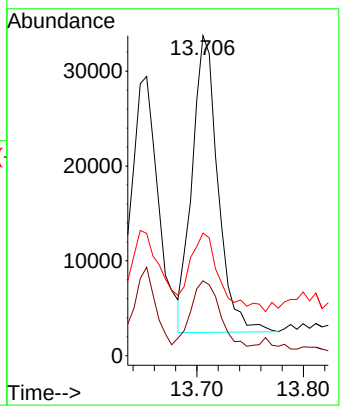




#86
p-Isopropyltoluene
Concen: 2.628 ug/l
RT: 13.706 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088185.D
Acq: 31 Oct 2025 14:00

Tgt Ion:119 Resp: 5266

Ion	Ratio	Lower	Upper
119	100		
134	28.7	12.7	38.0
91	29.9	12.5	37.5



Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088185.D
Acq On : 31 Oct 2025 14:00
Operator : JC\MD
Sample : Q3447-05
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Title : SW846 8260

Signal : TIC: VN088185.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.101	19	25	34	rVB	55521	91356	3.01%	0.338%
2	2.312	54	61	68	rBV	37301	66525	2.19%	0.246%
3	2.536	94	99	107	rVB	20557	37986	1.25%	0.140%
4	2.842	138	151	152	rBV5	35364	86468	2.85%	0.320%
5	2.959	168	171	176	rVB2	27174	38223	1.26%	0.141%
6	3.583	270	277	285	rBV4	14430	37377	1.23%	0.138%
7	4.436	411	422	436	rVB	25647	93719	3.09%	0.346%
8	5.018	507	521	534	rBV3	29562	101156	3.34%	0.374%
9	8.147	1042	1053	1057	rBV	297192	737276	24.31%	2.725%
10	8.200	1057	1062	1073	rVB	404145	937144	30.90%	3.463%
11	8.559	1113	1123	1136	rBV	366962	916734	30.22%	3.388%
12	9.077	1201	1211	1221	rBV	764393	1614865	53.24%	5.968%
13	10.541	1453	1460	1467	rBV	1185845	2289706	75.49%	8.462%
14	10.606	1467	1471	1479	rVB	282369	506304	16.69%	1.871%
15	11.841	1675	1681	1693	rVB	1060519	1966575	64.84%	7.268%
16	11.941	1694	1698	1703	rBV	59402	96965	3.20%	0.358%
17	12.829	1843	1849	1858	rBV	797026	1450640	47.83%	5.361%
18	12.935	1863	1867	1872	rVV4	64957	115052	3.79%	0.425%
19	13.265	1914	1923	1939	rVB2	321138	1489818	49.12%	5.506%
20	13.606	1968	1981	1982	rBV2	571766	1469253	48.44%	5.430%
21	13.770	2003	2009	2020	rVB	1132119	2154094	71.02%	7.961%
22	13.970	2030	2043	2052	rBV2	702963	3033062	100.00%	11.209%
23	14.070	2053	2060	2074	rVB4	712232	2526110	83.29%	9.335%
24	14.511	2129	2135	2146	rVV2	333150	964333	31.79%	3.564%
25	14.617	2147	2153	2167	rVB9	152567	555448	18.31%	2.053%
26	14.811	2178	2186	2199	rBV3	224357	744100	24.53%	2.750%
27	15.029	2219	2223	2235	rVB5	162220	422128	13.92%	1.560%
28	15.264	2256	2263	2273	rBV3	143452	454021	14.97%	1.678%
29	15.600	2309	2320	2330	rBV3	304112	1255744	41.40%	4.641%
30	16.194	2414	2421	2430	rVB7	86051	303038	9.99%	1.120%
31	16.753	2508	2516	2522	rBV2	208936	504196	16.62%	1.863%

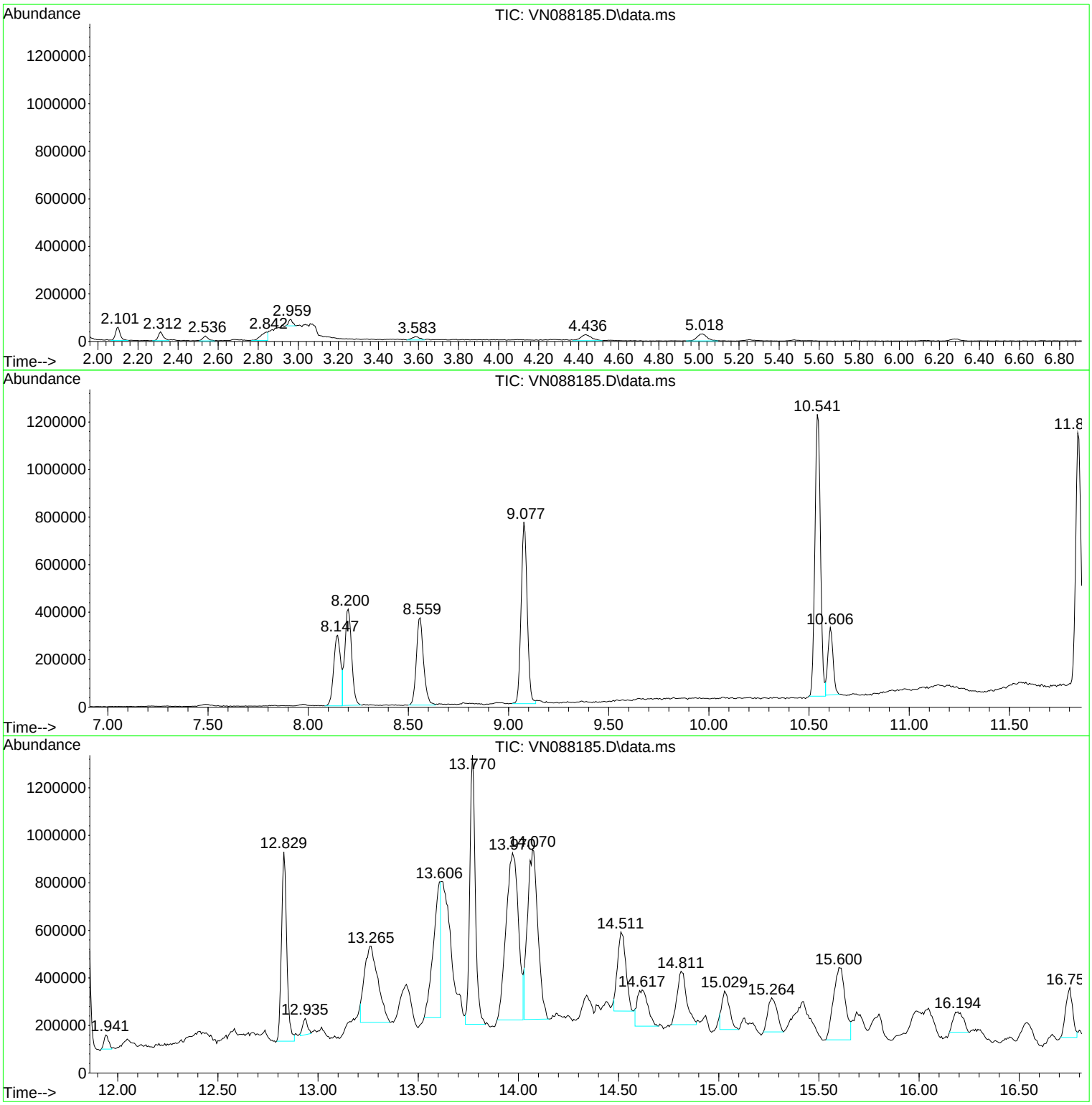
Sum of corrected areas: 27059416

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088185.D
Acq On : 31 Oct 2025 14:00
Operator : JC\MD
Sample : Q3447-05
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088185.D
Acq On : 31 Oct 2025 14:00
Operator : JC\MD
Sample : Q3447-05
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

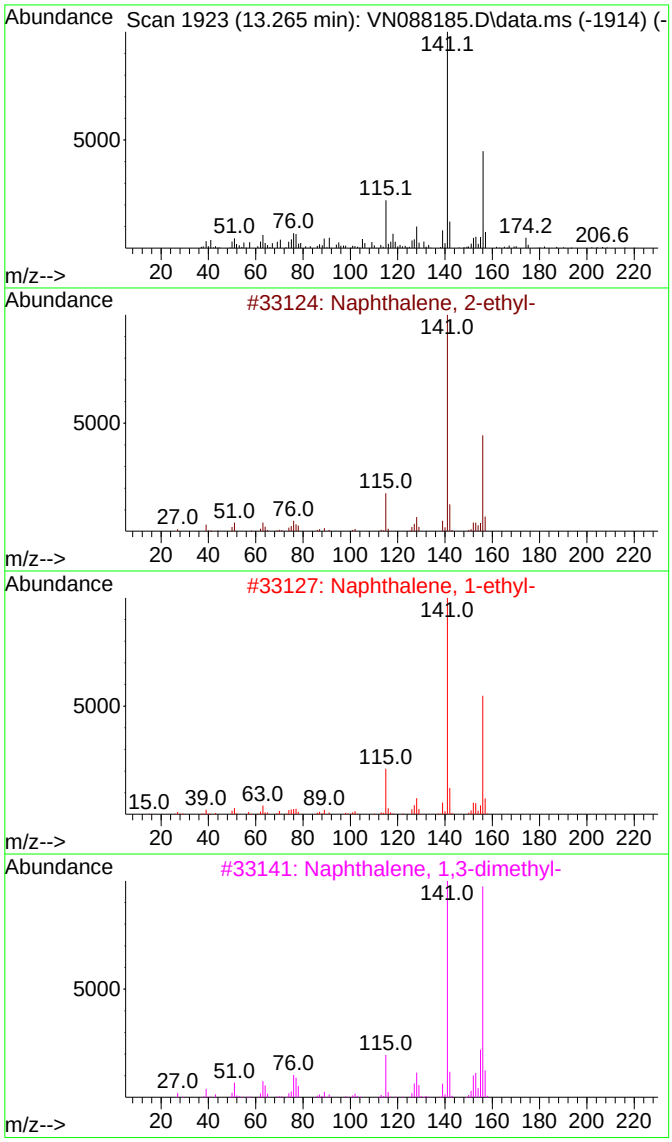
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Quant Title : SW846 8260

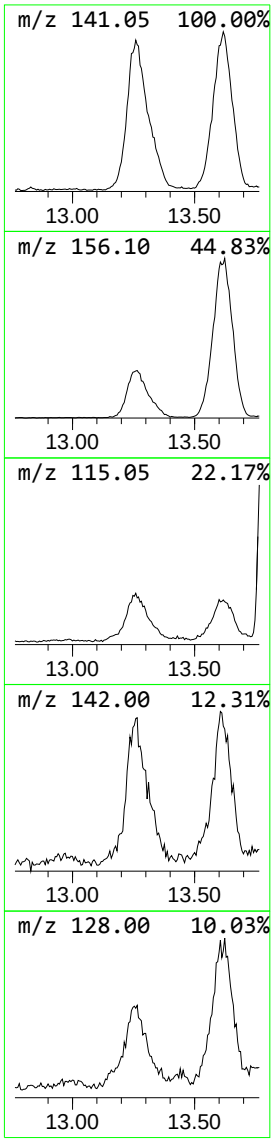
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Naphthalene, 2-ethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.265	34.58 ug/l	1489820	1,4-Dichlorobenzene-d4	13.770

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	97
2	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	86
4	Butethal	212	C10H16N2O3	000077-28-1	59
5	2-Thiophenecarboxylic acid, 5-et...	156	C7H8O2S	023229-72-3	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088185.D
Acq On : 31 Oct 2025 14:00
Operator : JC\MD
Sample : Q3447-05
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

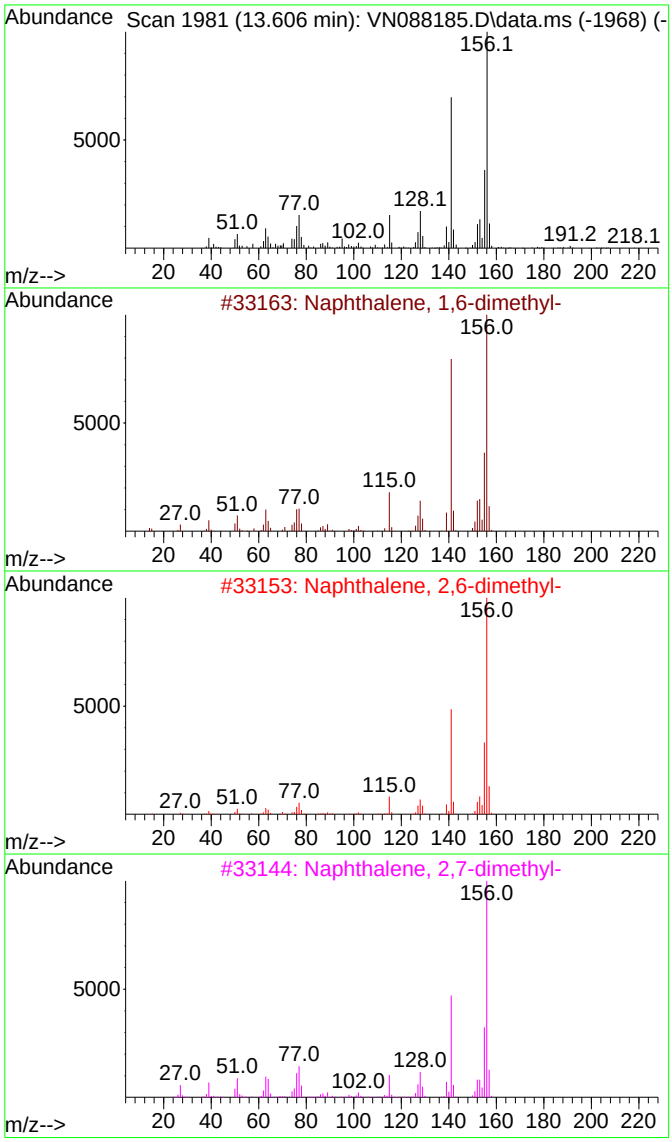
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TIC Integration Parameters: LSCINT.P

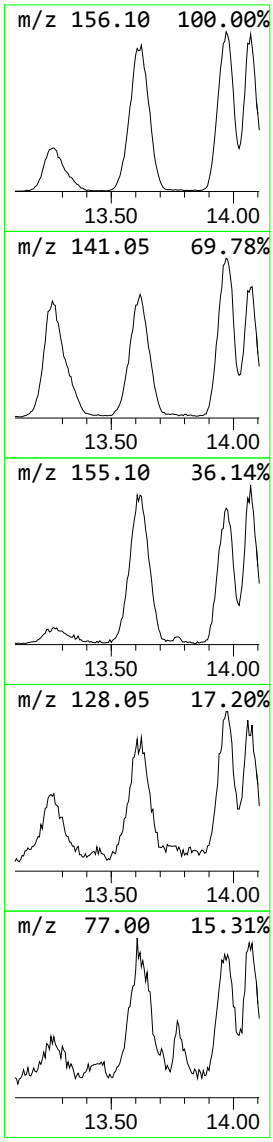
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Peak Number 2 Naphthalene, 1,6-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.606	34.10 ug/l	1469250	1,4-Dichlorobenzene-d4	13.770

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088185.D
Acq On : 31 Oct 2025 14:00
Operator : JC\MD
Sample : Q3447-05
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

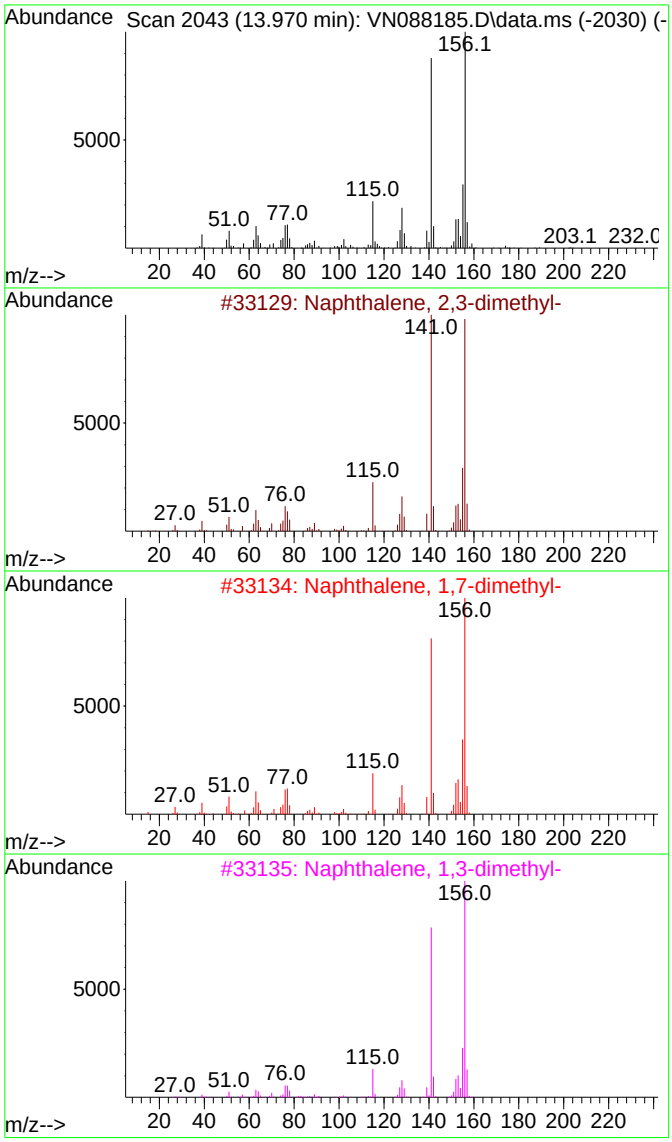
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TIC Integration Parameters: LSCINT.P

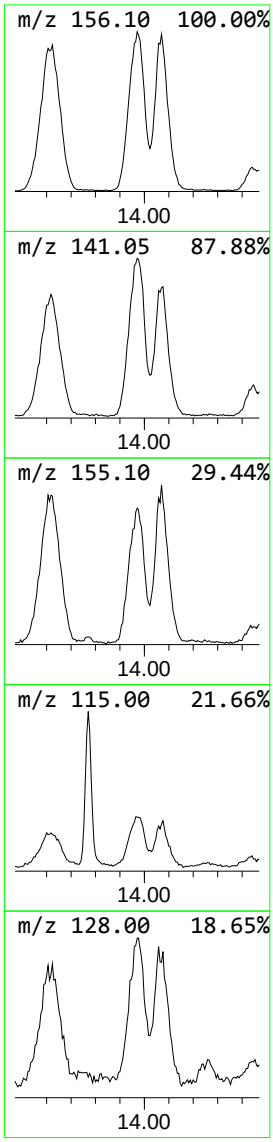
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Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.970	70.40 ug/l	3033060	1,4-Dichlorobenzene-d4	13.770

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
4	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088185.D
Acq On : 31 Oct 2025 14:00
Operator : JC\MD
Sample : Q3447-05
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

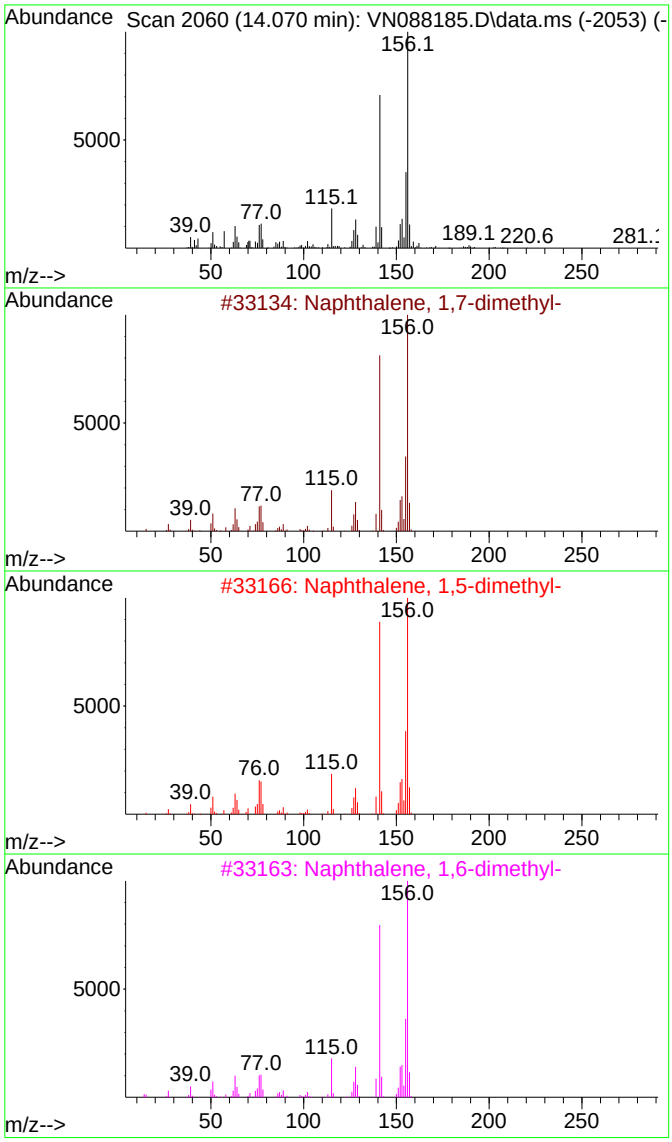
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

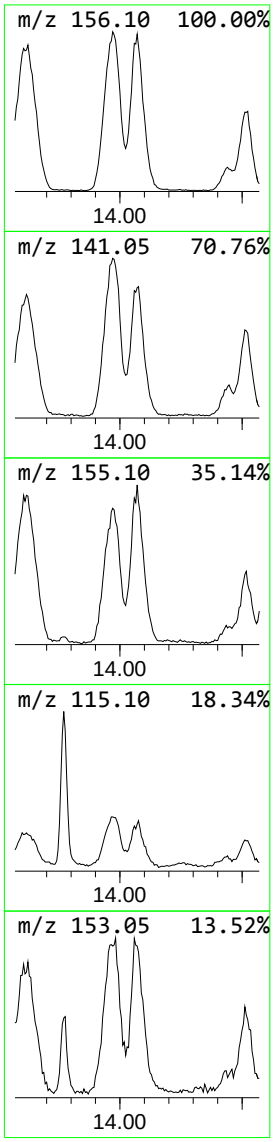
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Peak Number 4 Naphthalene, 1,7-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.070	58.64 ug/l	2526110	1,4-Dichlorobenzene-d4	13.770

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	98
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	98
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088185.D
Acq On : 31 Oct 2025 14:00
Operator : JC\MD
Sample : Q3447-05
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

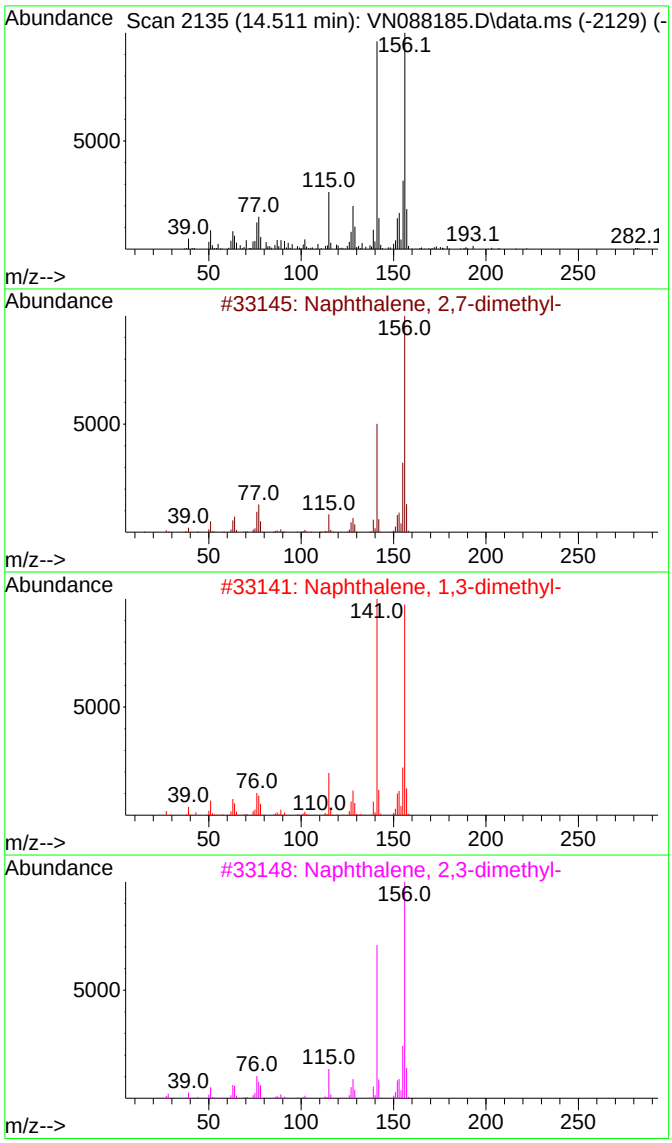
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Quant Title : SW846 8260

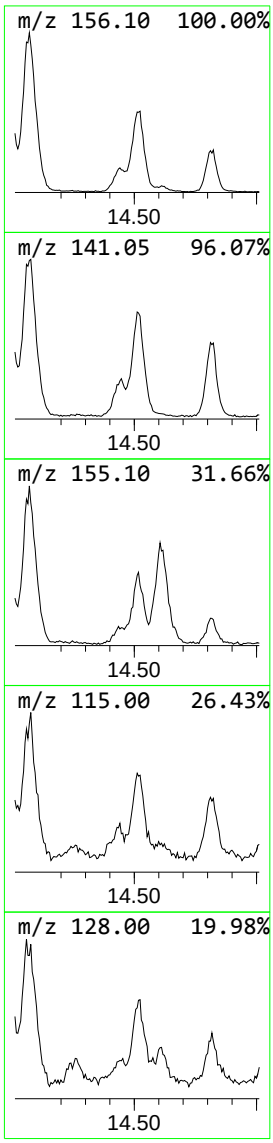
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Naphthalene, 2,7-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.512	22.38 ug/l	964333	1,4-Dichlorobenzene-d4	13.770

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	95
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	94





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088185.D
Acq On : 31 Oct 2025 14:00
Operator : JC\MD
Sample : Q3447-05
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

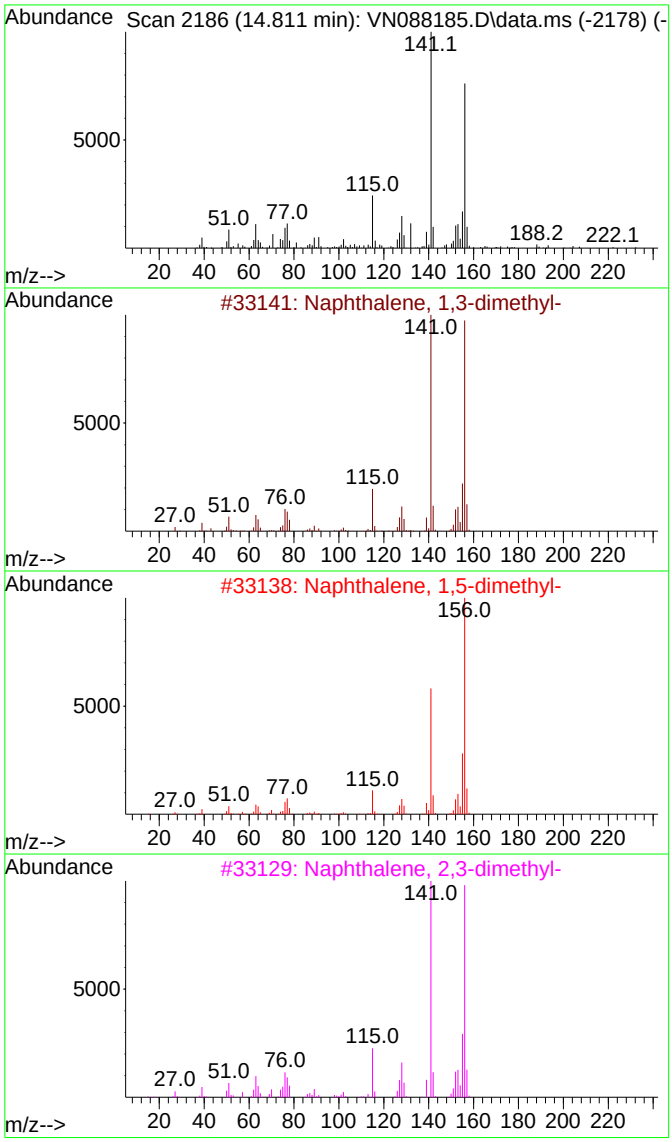
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Quant Title : SW846 8260

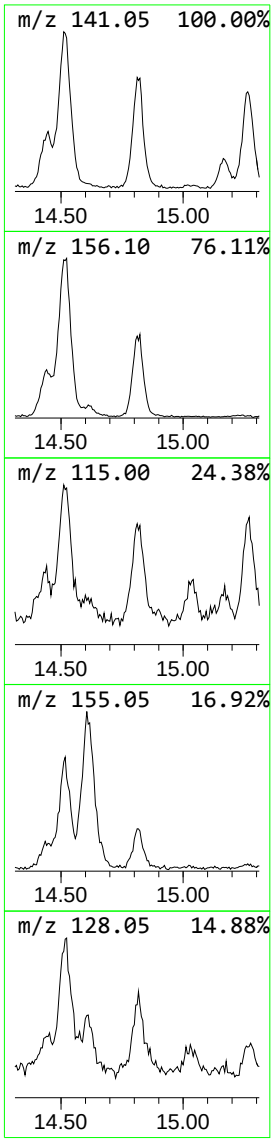
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Naphthalene, 1,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.812	17.27 ug/l	744100	1,4-Dichlorobenzene-d4	13.770

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	96
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95
4	Naphthalene, 1,8-dimethyl-	156	C12H12	000569-41-5	95
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088185.D
Acq On : 31 Oct 2025 14:00
Operator : JC\MD
Sample : Q3447-05
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

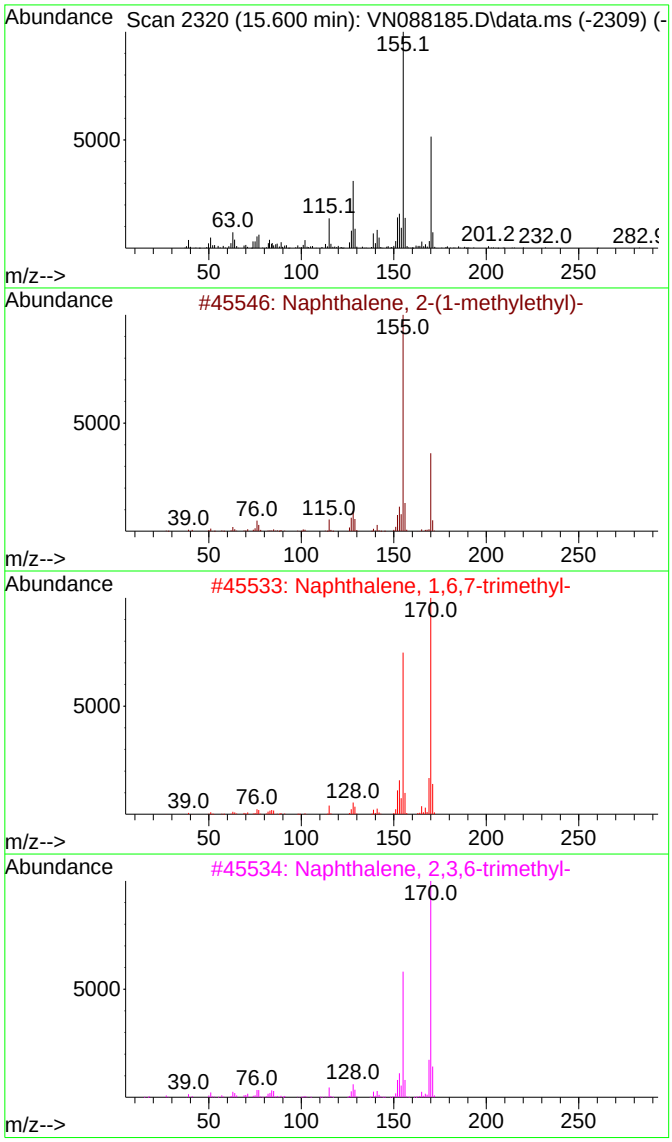
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

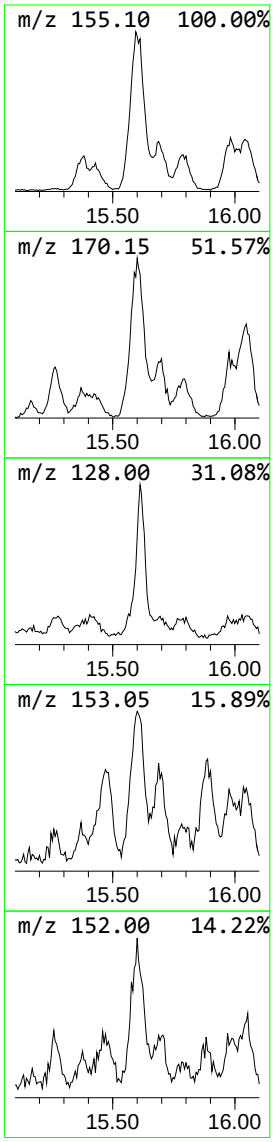
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Naphthalene, 2-(1-methyleth... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.600	29.15 ug/l	1255740	1,4-Dichlorobenzene-d4	13.770

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-(1-methylethyl)-	170	C13H14	002027-17-0	93
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	93
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	93
4	3-(2-Methyl-propenyl)-1H-indene	170	C13H14	1000187-78-5	87
5	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	86





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088185.D
Acq On : 31 Oct 2025 14:00
Operator : JC\MD
Sample : Q3447-05
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW3-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Naphthalene, 2-...	13.265	34.6	ug/l	1489820	4	13.770	2154090	50.0
Naphthalene, 1,...	13.606	34.1	ug/l	1469250	4	13.770	2154090	50.0
Naphthalene, 2,...	13.970	70.4	ug/l	3033060	4	13.770	2154090	50.0
Naphthalene, 1,...	14.070	58.6	ug/l	2526110	4	13.770	2154090	50.0
Naphthalene, 2,...	14.512	22.4	ug/l	964333	4	13.770	2154090	50.0
Naphthalene, 1,...	14.812	17.3	ug/l	744100	4	13.770	2154090	50.0
Naphthalene, 2-...	15.600	29.1	ug/l	1255740	4	13.770	2154090	50.0

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/23/25	
Project:	RFP 905		Date Received:	10/23/25	
Client Sample ID:	P001-TW4-251023-01		SDG No.:	Q3447	
Lab Sample ID:	Q3447-07	Soil Aliquot Vol: 100 uL	Matrix:	SOIL	
Analytical Method:	8260D	Level: MED	% Solid:	100	
Sample Wt/Vol:	3.22 g	Final Vol: 10000 uL	Test:	VOC-TCLVOA-10	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	180	U	1	180	780	ug/Kg	10/31/25 14:21	VN103125
74-87-3	Chloromethane	180	U	1	180	780	ug/Kg	10/31/25 14:21	VN103125
75-01-4	Vinyl Chloride	120	U	1	120	780	ug/Kg	10/31/25 14:21	VN103125
74-83-9	Bromomethane	170	U	1	170	780	ug/Kg	10/31/25 14:21	VN103125
75-00-3	Chloroethane	200	U	1	200	780	ug/Kg	10/31/25 14:21	VN103125
75-69-4	Trichlorofluoromethane	190	U	1	190	780	ug/Kg	10/31/25 14:21	VN103125
76-13-1	1,1,2-Trichlorotrifluoroethane	160	U	1	160	780	ug/Kg	10/31/25 14:21	VN103125
75-35-4	1,1-Dichloroethene	160	U	1	160	780	ug/Kg	10/31/25 14:21	VN103125
67-64-1	Acetone	15200		1	740	3900	ug/Kg	10/31/25 14:21	VN103125
75-15-0	Carbon Disulfide	160	U	1	160	780	ug/Kg	10/31/25 14:21	VN103125
1634-04-4	Methyl tert-butyl Ether	110	U	1	110	780	ug/Kg	10/31/25 14:21	VN103125
79-20-9	Methyl Acetate	3800		1	240	780	ug/Kg	10/31/25 14:21	VN103125
75-09-2	Methylene Chloride	550	U	1	550	1600	ug/Kg	10/31/25 14:21	VN103125
156-60-5	trans-1,2-Dichloroethene	130	U	1	130	780	ug/Kg	10/31/25 14:21	VN103125
75-34-3	1,1-Dichloroethane	120	U	1	120	780	ug/Kg	10/31/25 14:21	VN103125
110-82-7	Cyclohexane	120	U	1	120	780	ug/Kg	10/31/25 14:21	VN103125
78-93-3	2-Butanone	1100	J	1	1000	3900	ug/Kg	10/31/25 14:21	VN103125
56-23-5	Carbon Tetrachloride	150	U	1	150	780	ug/Kg	10/31/25 14:21	VN103125
156-59-2	cis-1,2-Dichloroethene	120	U	1	120	780	ug/Kg	10/31/25 14:21	VN103125
74-97-5	Bromochloromethane	180	U	1	180	780	ug/Kg	10/31/25 14:21	VN103125
67-66-3	Chloroform	130	U	1	130	780	ug/Kg	10/31/25 14:21	VN103125
71-55-6	1,1,1-Trichloroethane	140	U	1	140	780	ug/Kg	10/31/25 14:21	VN103125
108-87-2	Methylcyclohexane	140	U	1	140	780	ug/Kg	10/31/25 14:21	VN103125
71-43-2	Benzene	120	U	1	120	780	ug/Kg	10/31/25 14:21	VN103125
107-06-2	1,2-Dichloroethane	120	U	1	120	780	ug/Kg	10/31/25 14:21	VN103125
79-01-6	Trichloroethene	130	U	1	130	780	ug/Kg	10/31/25 14:21	VN103125
78-87-5	1,2-Dichloropropane	140	U	1	140	780	ug/Kg	10/31/25 14:21	VN103125
75-27-4	Bromodichloromethane	120	U	1	120	780	ug/Kg	10/31/25 14:21	VN103125
108-10-1	4-Methyl-2-Pentanone	560	U	1	560	3900	ug/Kg	10/31/25 14:21	VN103125
108-88-3	Toluene	4700		1	120	780	ug/Kg	10/31/25 14:21	VN103125
10061-02-6	t-1,3-Dichloropropene	100	U	1	100	780	ug/Kg	10/31/25 14:21	VN103125
10061-01-5	cis-1,3-Dichloropropene	96.3	U	1	96.3	780	ug/Kg	10/31/25 14:21	VN103125
79-00-5	1,1,2-Trichloroethane	140	U	1	140	780	ug/Kg	10/31/25 14:21	VN103125
591-78-6	2-Hexanone	570	U	1	570	3900	ug/Kg	10/31/25 14:21	VN103125
124-48-1	Dibromochloromethane	140	U	1	140	780	ug/Kg	10/31/25 14:21	VN103125
106-93-4	1,2-Dibromoethane	140	U	1	140	780	ug/Kg	10/31/25 14:21	VN103125
127-18-4	Tetrachloroethene	160	U	1	160	780	ug/Kg	10/31/25 14:21	VN103125
108-90-7	Chlorobenzene	140	U	1	140	780	ug/Kg	10/31/25 14:21	VN103125
100-41-4	Ethyl Benzene	3200		1	100	780	ug/Kg	10/31/25 14:21	VN103125
179601-23-1	m/p-Xylenes	870	J	1	190	1600	ug/Kg	10/31/25 14:21	VN103125
95-47-6	o-Xylene	330	J	1	130	780	ug/Kg	10/31/25 14:21	VN103125
100-42-5	Styrene	110	U	1	110	780	ug/Kg	10/31/25 14:21	VN103125
75-25-2	Bromoform	130	U	1	130	780	ug/Kg	10/31/25 14:21	VN103125

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	10/23/25
Project:	RFP 905		Date Received:	10/23/25
Client Sample ID:	P001-TW4-251023-01		SDG No.:	Q3447
Lab Sample ID:	Q3447-07	Soil Aliquot Vol: 100 uL	Matrix:	SOIL
Analytical Method:	8260D	Level: MED	% Solid:	100
Sample Wt/Vol:	3.22 g	Final Vol: 10000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	180	J	1	120	780	ug/Kg	10/31/25 14:21	VN103125
79-34-5	1,1,2,2-Tetrachloroethane	190	U	1	190	780	ug/Kg	10/31/25 14:21	VN103125
541-73-1	1,3-Dichlorobenzene	270	U	1	270	780	ug/Kg	10/31/25 14:21	VN103125
106-46-7	1,4-Dichlorobenzene	240	U	1	240	780	ug/Kg	10/31/25 14:21	VN103125
95-50-1	1,2-Dichlorobenzene	230	U	1	230	780	ug/Kg	10/31/25 14:21	VN103125
96-12-8	1,2-Dibromo-3-Chloropropane	290	U	1	290	780	ug/Kg	10/31/25 14:21	VN103125
120-82-1	1,2,4-Trichlorobenzene	460	U	1	460	780	ug/Kg	10/31/25 14:21	VN103125
87-61-6	1,2,3-Trichlorobenzene	490	U	1	490	780	ug/Kg	10/31/25 14:21	VN103125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	61.4			63 - 155	123%	SPK: 50		
1868-53-7	Dibromofluoromethane	49.8			70 - 134	100%	SPK: 50		
2037-26-5	Toluene-d8	49.9			74 - 123	100%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.1			17 - 146	102%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	273000							
540-36-3	1,4-Difluorobenzene	617000							
3114-55-4	Chlorobenzene-d5	566000							
3855-82-1	1,4-Dichlorobenzene-d4	279000							
TENTATIVE IDENTIFIED COMPOUNDS									
000508-32-7	Tricyclo[2.2.1.0(2,6)]heptane, 1,7	1900	J			12.6	ug/Kg		
000079-92-5	Camphene	5200	J			12.9	ug/Kg		
103-65-1	n-propylbenzene	300	J			13.0	ug/Kg		
95-63-6	1,2,4-Trimethylbenzene	410	J			13.5	ug/Kg		
000575-43-9	Naphthalene, 1,6-dimethyl-	2400	J			13.6	ug/Kg		
000527-84-4	o-Cymene	3800	J			13.6	ug/Kg		
99-87-6	p-Isopropyltoluene	5800	J			13.7	ug/Kg		
000575-37-1	Naphthalene, 1,7-dimethyl-	2600	J			14.0	ug/Kg		
004218-48-8	Benzene, 1-ethyl-4-(1-methylethyl)	3800	J			14.4	ug/Kg		
017059-48-2	1H-Indene, 2,3-dihydro-1,6-dimethy	2600	J			15.4	ug/Kg		
026465-81-6	1H-Inden-1-one, 2,3-dihydro-3,3-di	1500	J			16.3	ug/Kg		

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\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Quant Time: Nov 01 00:33:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

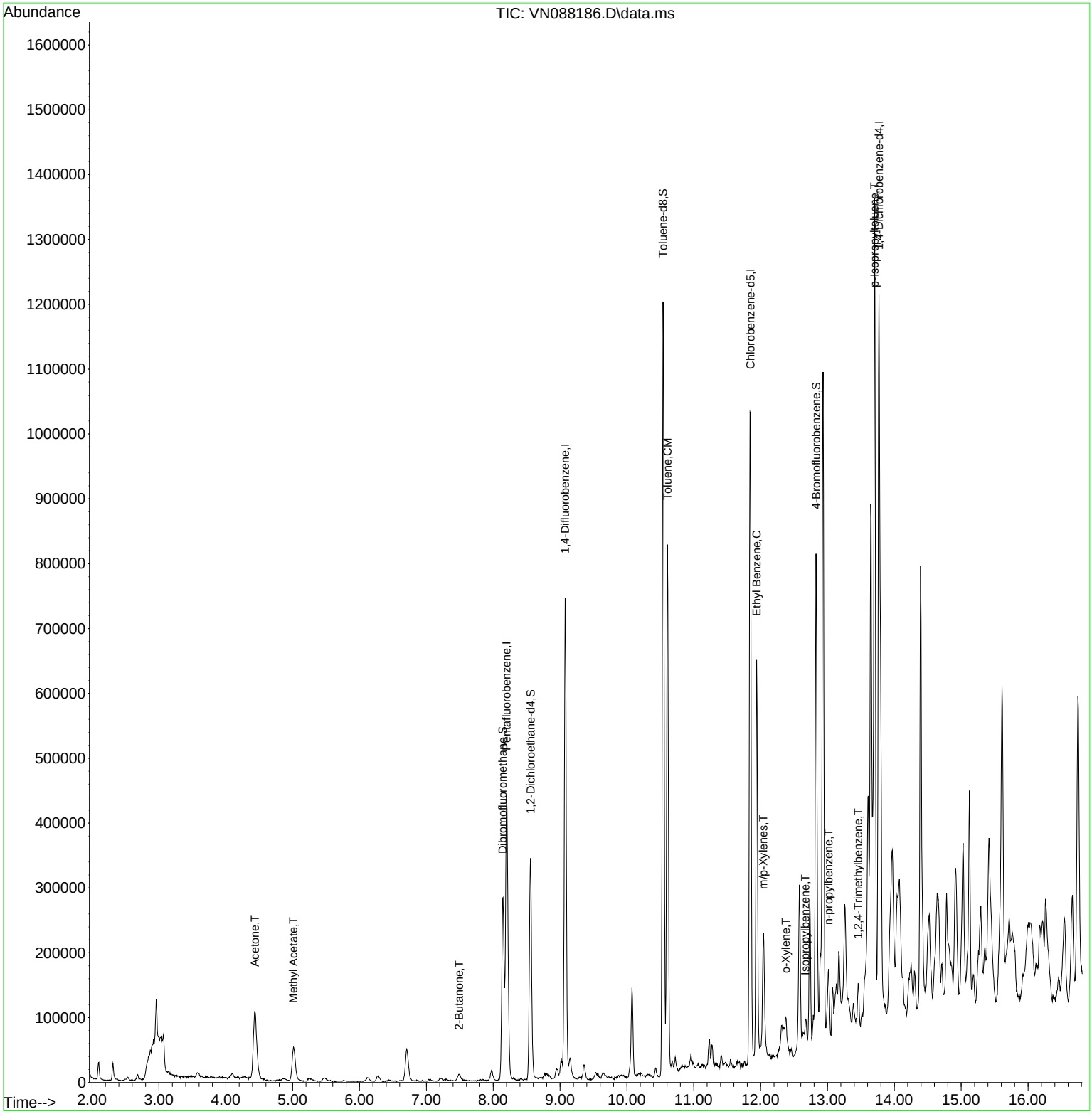
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.200	168	273190	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	616897	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	566365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	278512	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	289955	61.379	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 122.760%			
35) Dibromofluoromethane	8.141	113	206260	49.769	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.540%			
50) Toluene-d8	10.541	98	797025	49.911	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.820%			
62) 4-Bromofluorobenzene	12.829	95	288155	51.095	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.180%			
Target Compounds						Qvalue
16) Acetone	4.436	43	232348	97.901	ug/l	99
18) Methyl Acetate	5.012	43	118600	24.410	ug/l	100
25) 2-Butanone	7.489	43	21823	6.977	ug/l	96
52) Toluene	10.606	92	347408	30.576	ug/l	98
67) Ethyl Benzene	11.941	91	467029	20.689	ug/l	99
68) m/p-Xylenes	12.041	106	47578	5.625	ug/l	92
69) o-Xylene	12.376	106	16907	2.109	ug/l	88
73) Isopropylbenzene	12.671	105	24632	1.147	ug/l	94
78) n-propylbenzene	13.018	91	50738	1.936	ug/l	95
84) 1,2,4-Trimethylbenzene	13.459	105	47676	2.671	ug/l	99
86) p-Isopropyltoluene	13.706	119	700814	37.311	ug/l	97

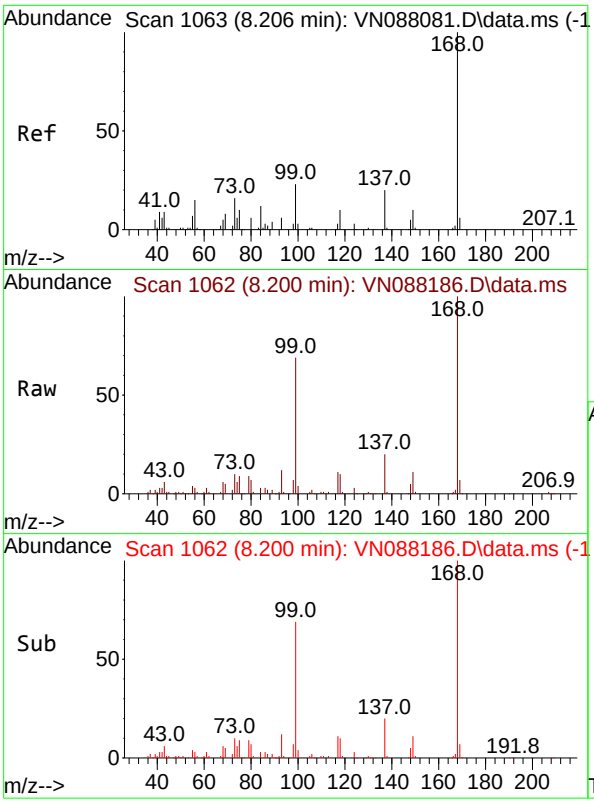
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Quant Time: Nov 01 00:33:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration



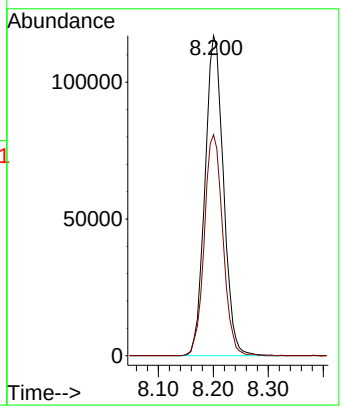


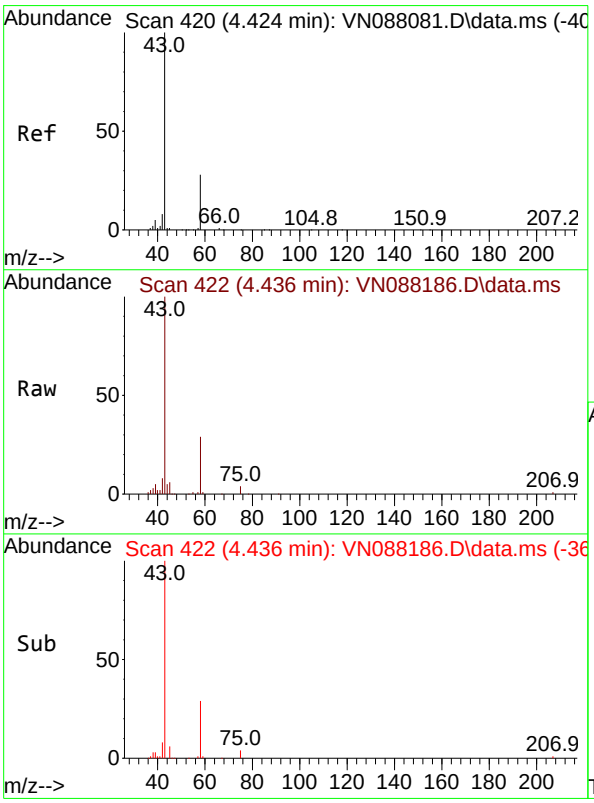
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Tgt Ion:168 Resp: 273190

Ion	Ratio	Lower	Upper
168	100		
99	69.1	57.2	85.8

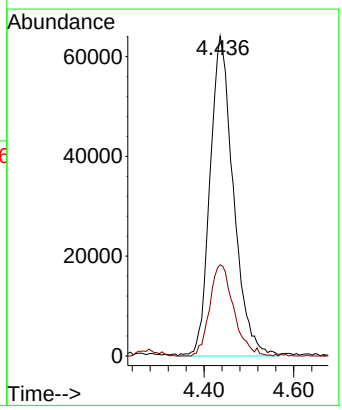


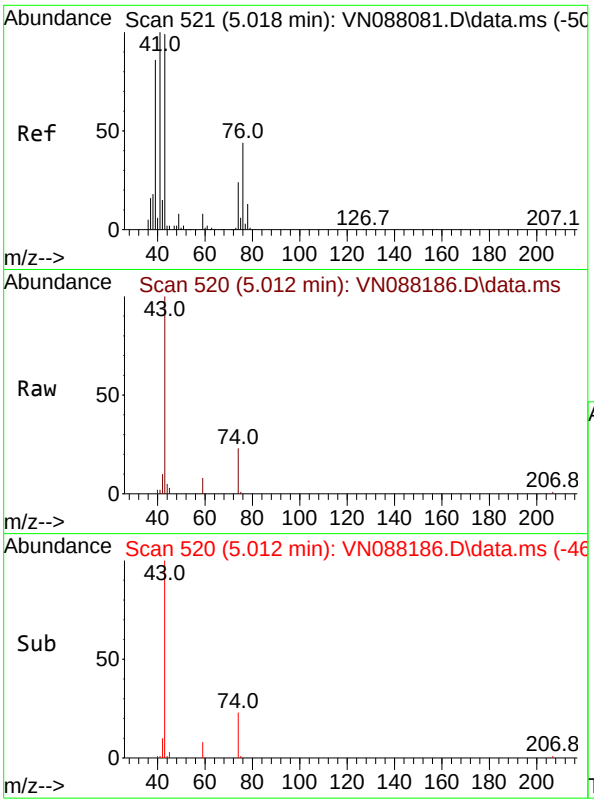


#16
Acetone
Concen: 97.901 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Tgt Ion: 43 Resp: 232348

Ion	Ratio	Lower	Upper
43	100		
58	28.5	22.6	33.8



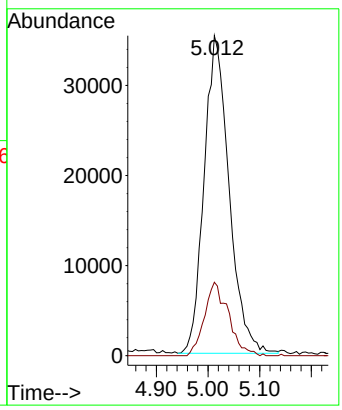


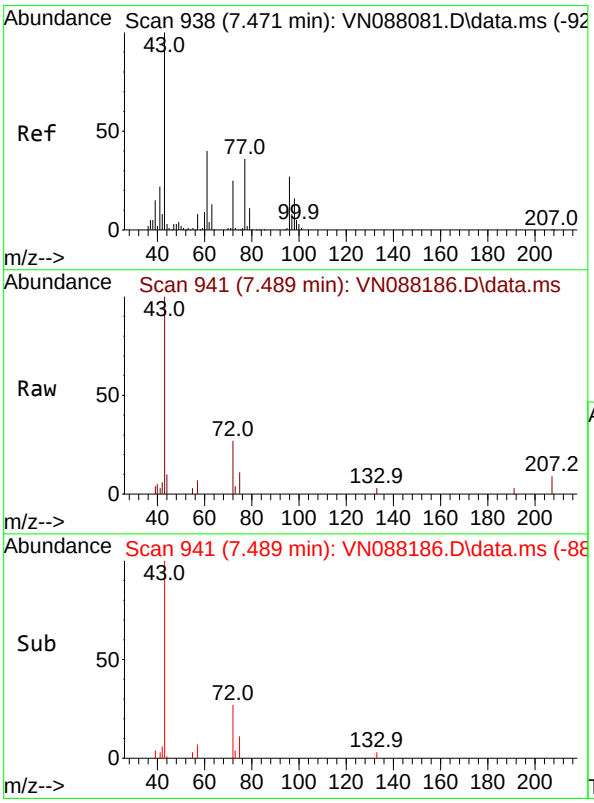
#18
Methyl Acetate
Concen: 24.410 ug/l
RT: 5.012 min Scan# 5
Delta R.T. -0.000 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Tgt Ion: 43 Resp: 118600

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.6	26.4

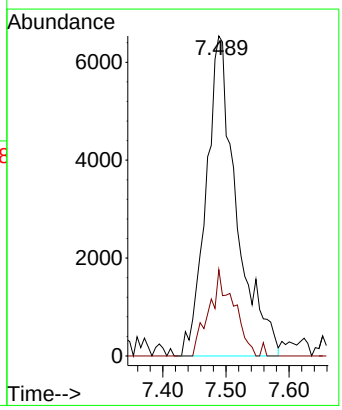


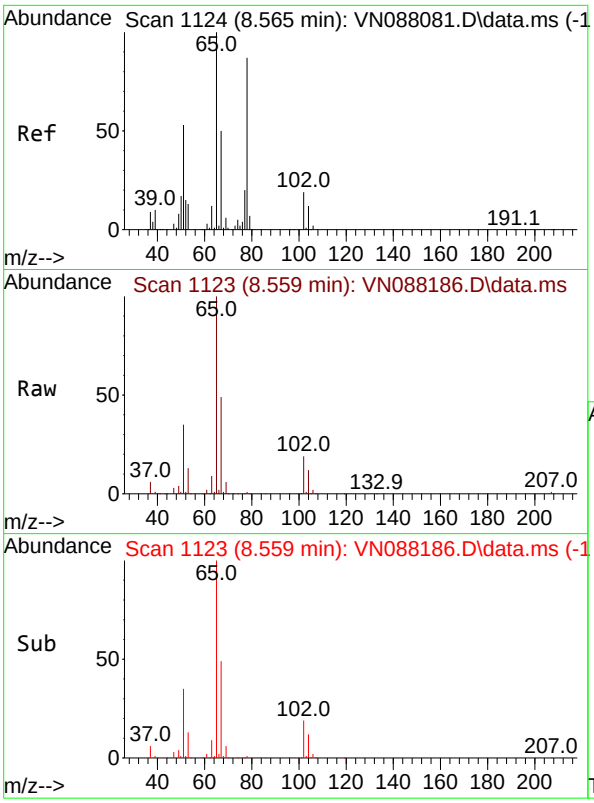


#25
2-Butanone
Concen: 6.977 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.023 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Tgt Ion: 43 Resp: 21823

Ion	Ratio	Lower	Upper
43	100		
72	27.0	19.9	29.9



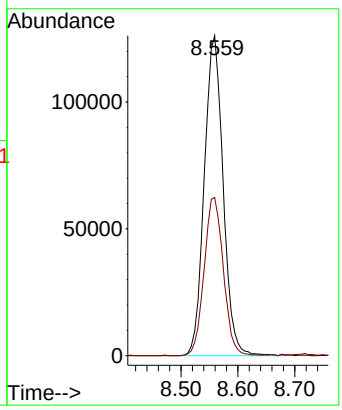


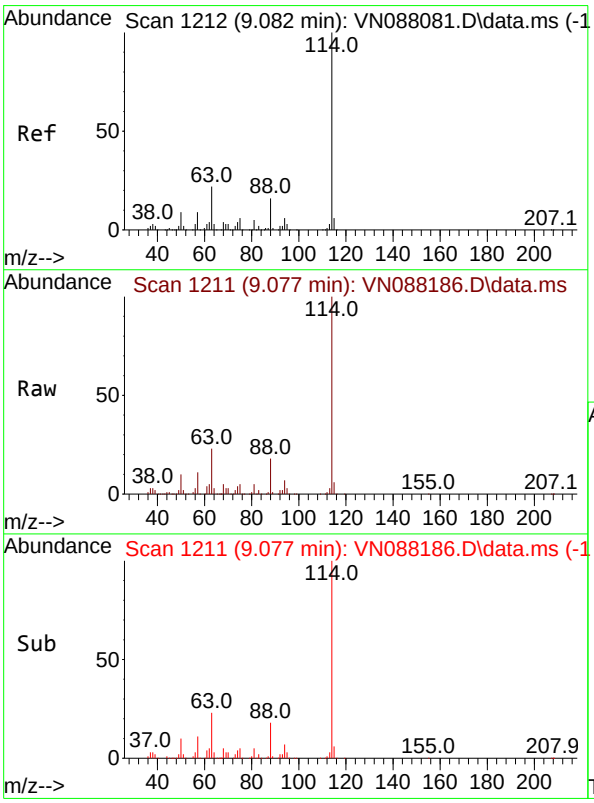
#33
1,2-Dichloroethane-d4
Concen: 61.379 ug/l
RT: 8.559 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Tgt Ion: 65 Resp: 289955

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	100.0

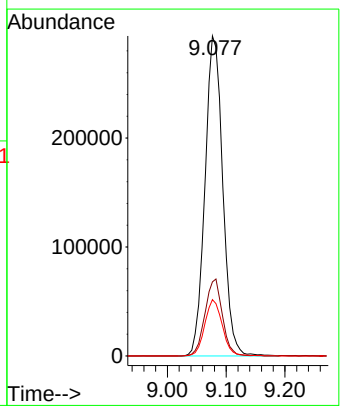


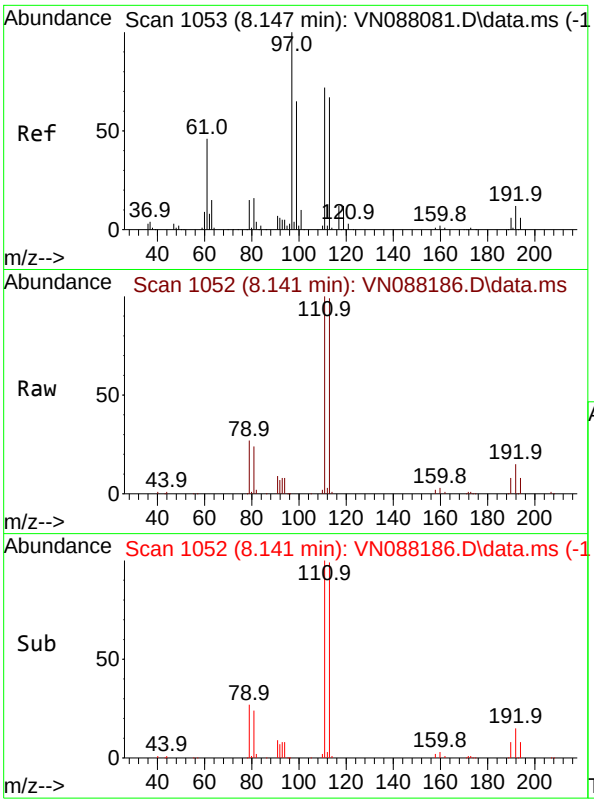


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.077 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Tgt Ion:114 Resp: 616897

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	45.2
88	17.6	0.0	33.4



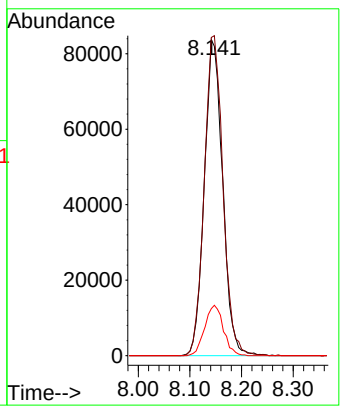


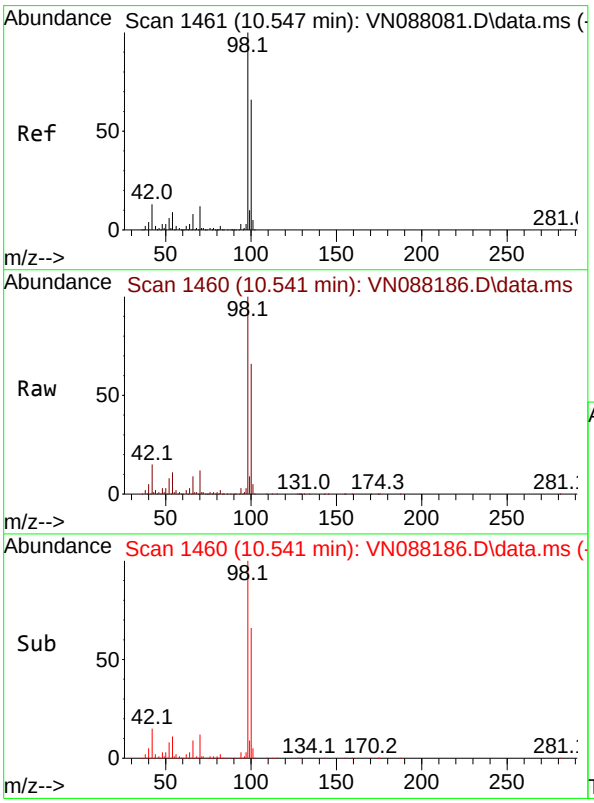
#35
Dibromofluoromethane
Concen: 49.769 ug/l
RT: 8.141 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Tgt Ion:113 Resp: 206260

Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.8	124.2
192	16.3	12.8	19.2

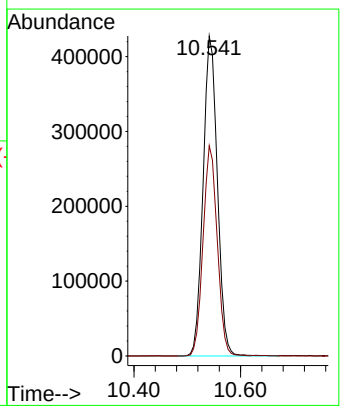


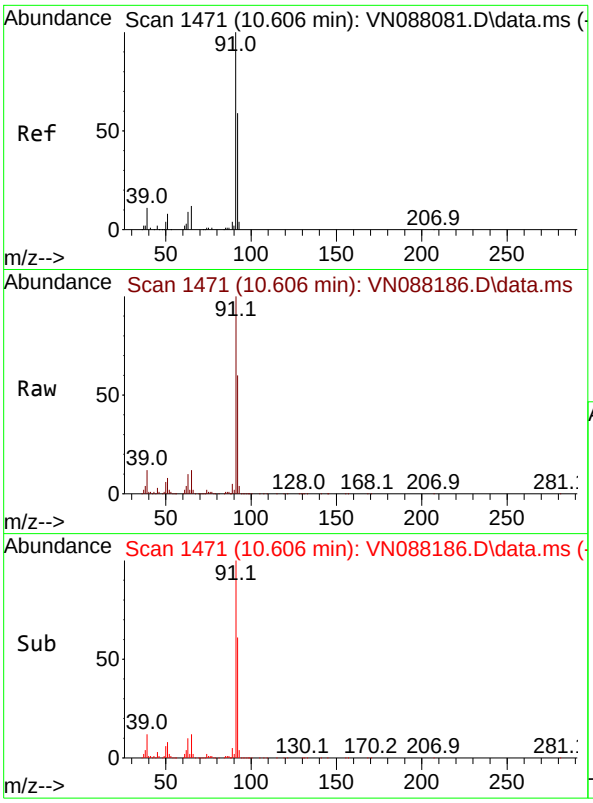


#50
Toluene-d8
Concen: 49.911 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Tgt Ion: 98 Resp: 797025

Ion	Ratio	Lower	Upper
98	100		
100	65.1	52.8	79.2



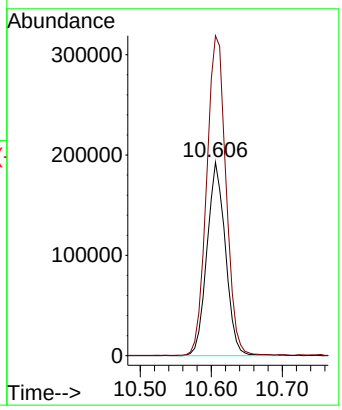


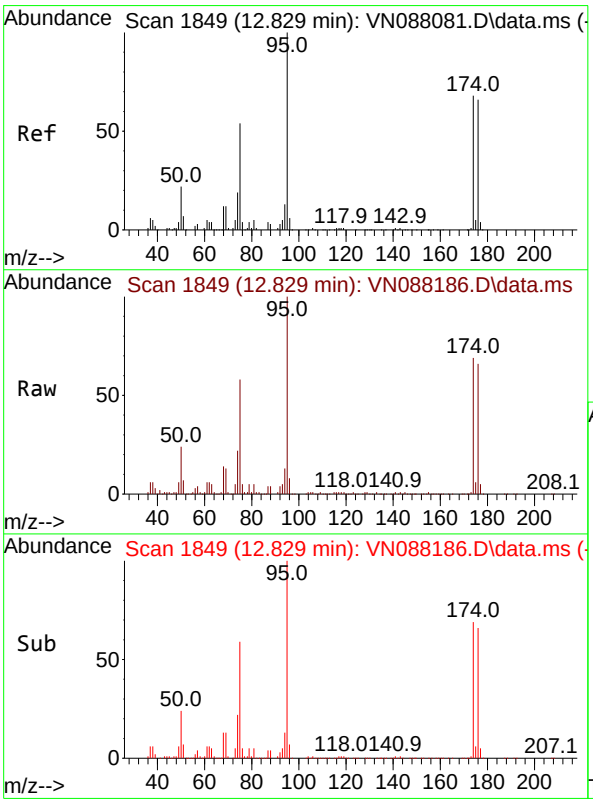
#52
Toluene
Concen: 30.576 ug/l
RT: 10.606 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Tgt Ion: 92 Resp: 347408

Ion	Ratio	Lower	Upper
92	100		
91	173.2	140.4	210.6

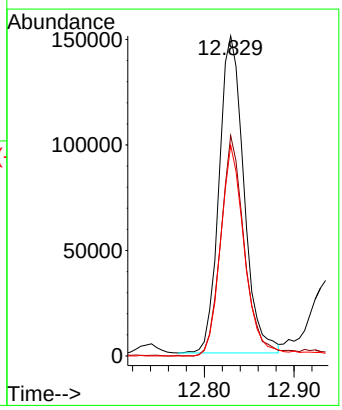


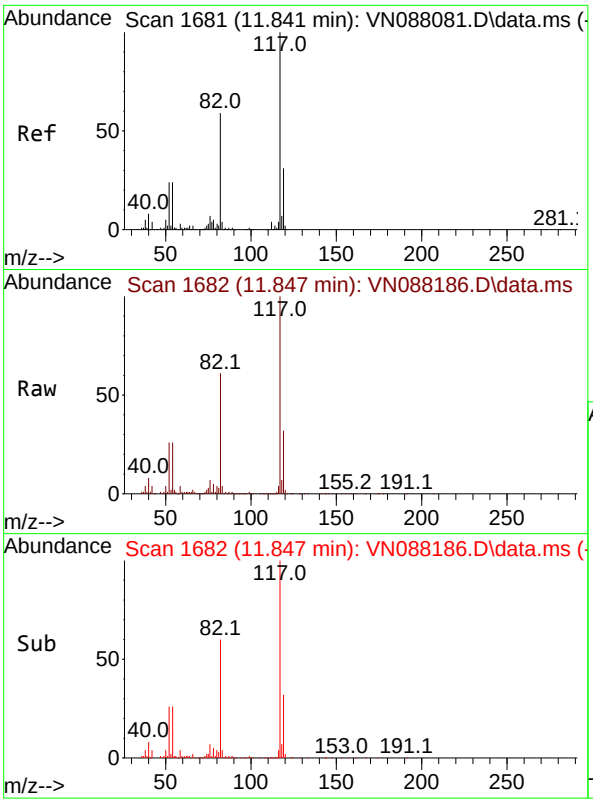


#62
4-Bromofluorobenzene
Concen: 51.095 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Tgt Ion: 95 Resp: 288155

Ion	Ratio	Lower	Upper
95	100		
174	67.1	0.0	138.4
176	64.0	0.0	132.6



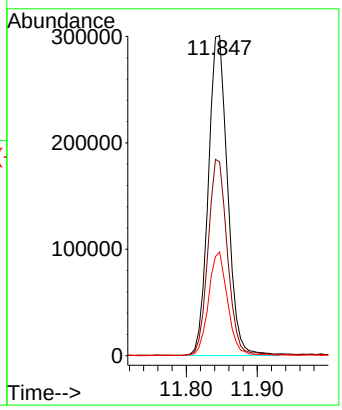


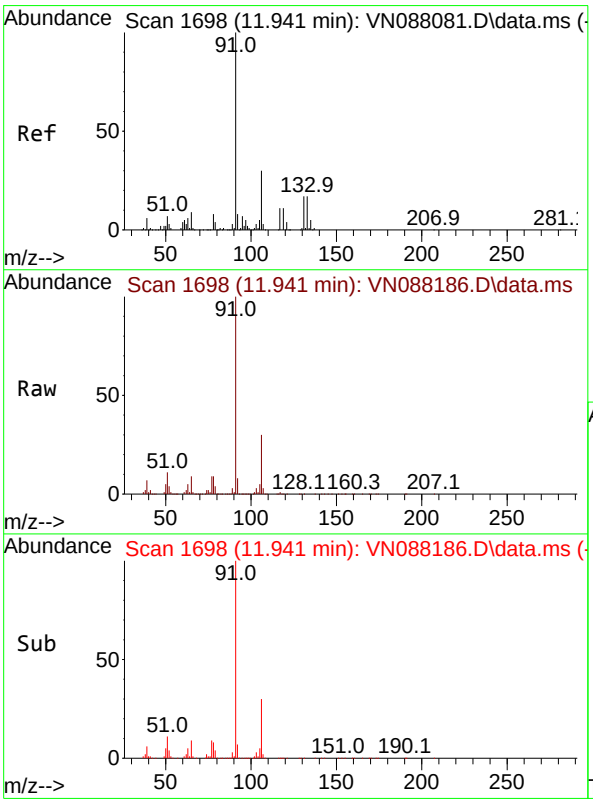
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Tgt Ion:117 Resp: 566365

Ion	Ratio	Lower	Upper
117	100		
82	60.4	47.4	71.2
119	32.3	24.3	36.5

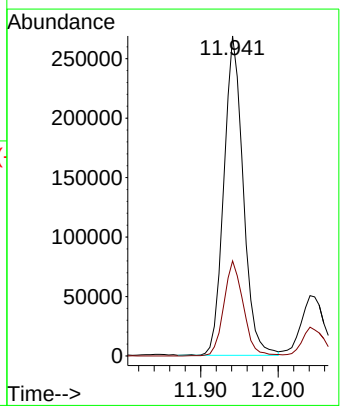


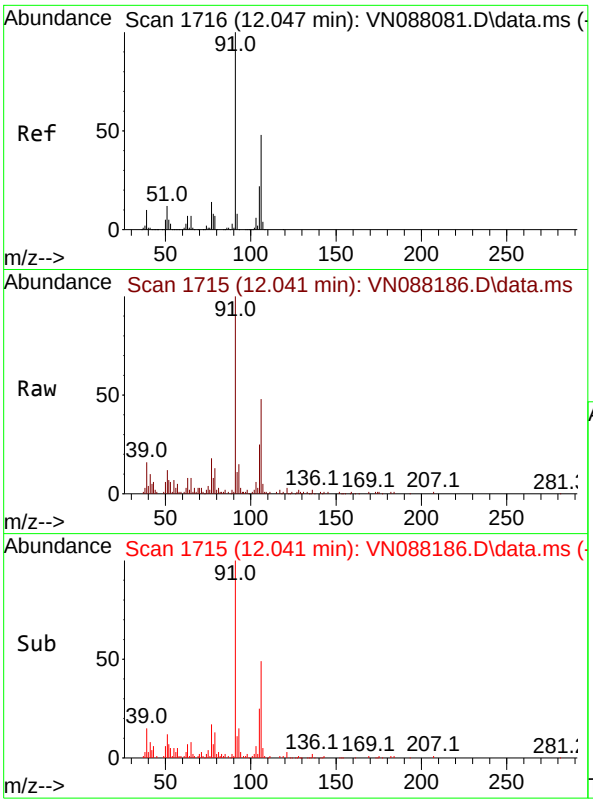


#67
Ethyl Benzene
Concen: 20.689 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Tgt Ion: 91 Resp: 467029

Ion	Ratio	Lower	Upper
91	100		
106	29.8	24.1	36.1



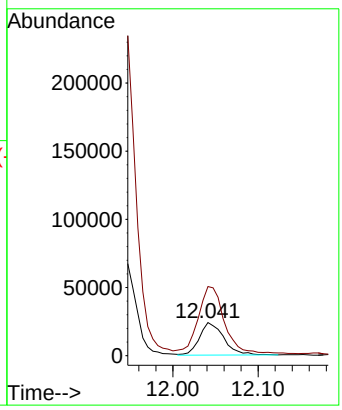


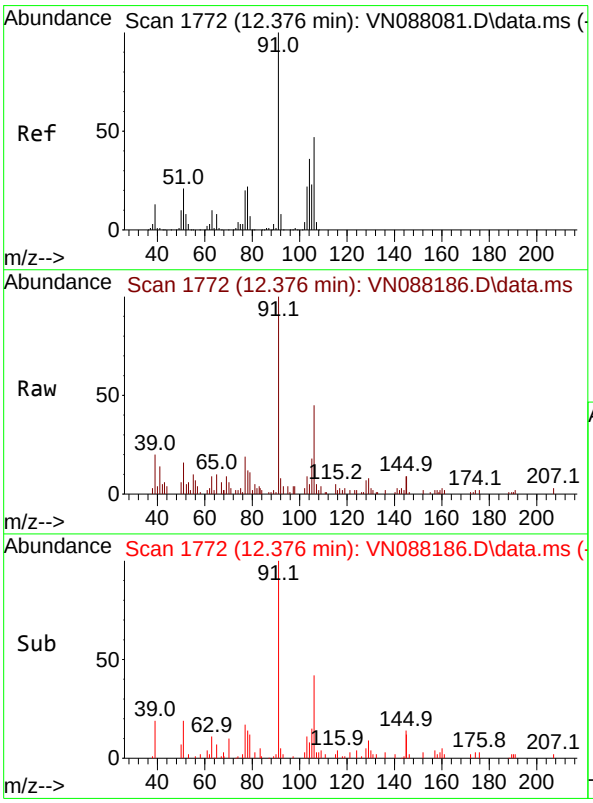
#68
m/p-Xylenes
Concen: 5.625 ug/l
RT: 12.041 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Tgt Ion:106 Resp: 47578

Ion	Ratio	Lower	Upper
106	100		
91	224.8	169.3	253.9

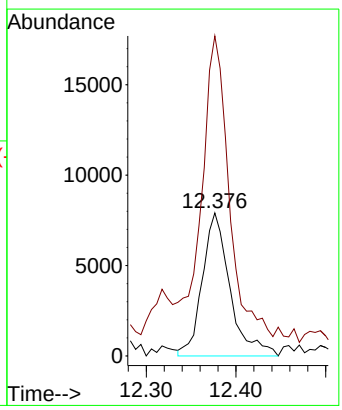


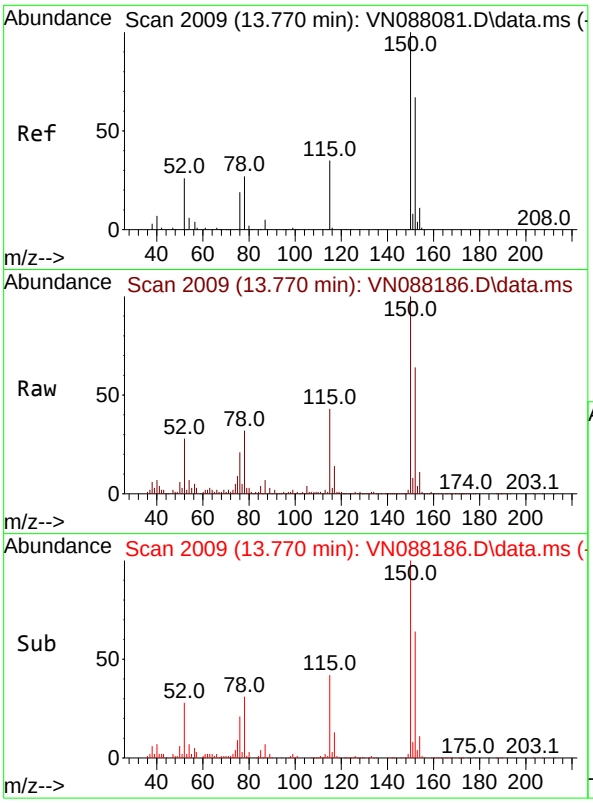


#69
o-Xylene
Concen: 2.109 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Tgt Ion:106 Resp: 16907

Ion	Ratio	Lower	Upper
106	100		
91	203.8	111.4	334.2



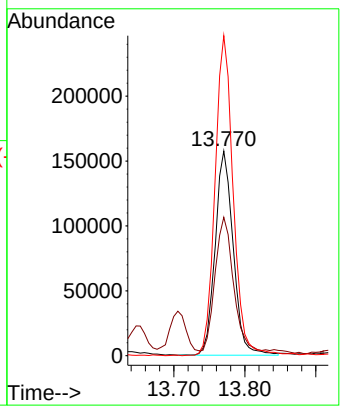


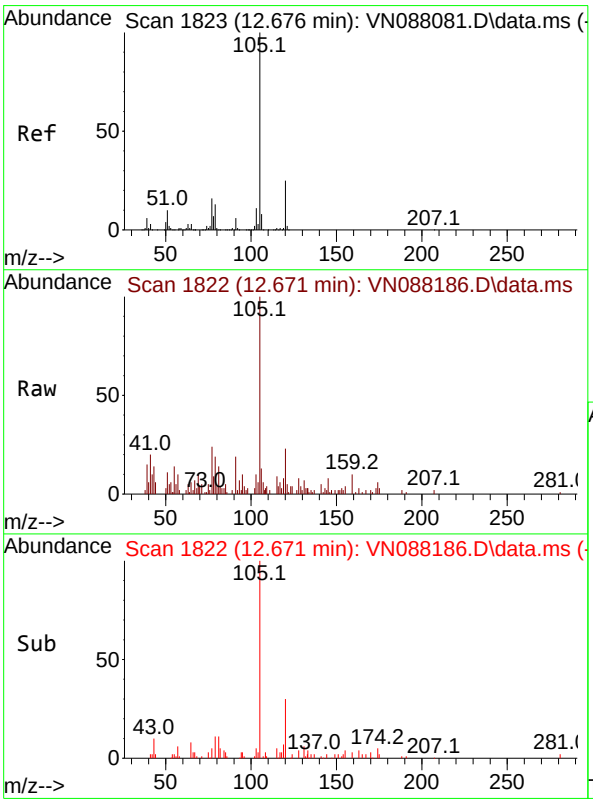
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Tgt Ion:152 Resp: 278512

Ion	Ratio	Lower	Upper
152	100		
115	65.6	32.3	96.8
150	157.7	0.0	351.0

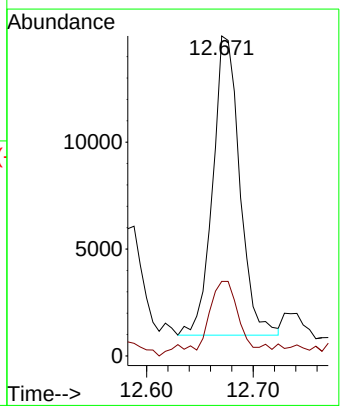


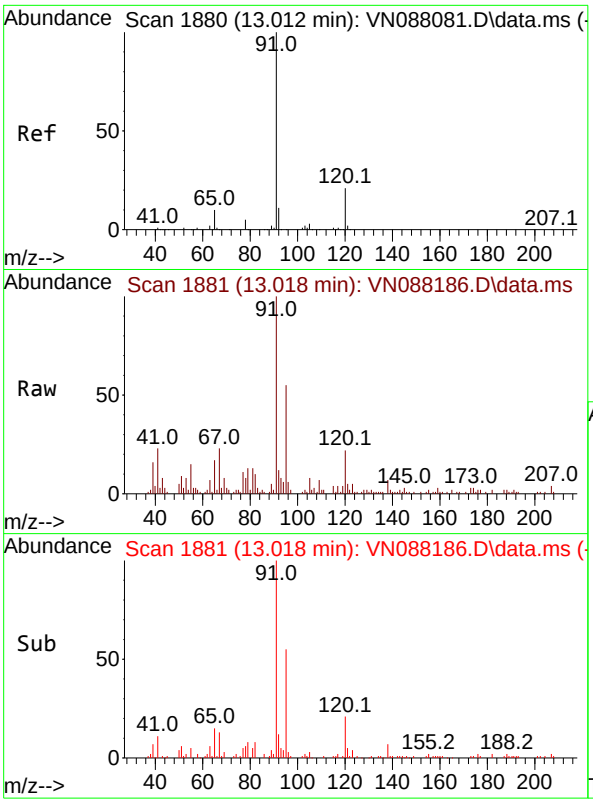


#73
Isopropylbenzene
Concen: 1.147 ug/l
RT: 12.671 min Scan# 1822
Delta R.T. -0.000 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Tgt Ion:105 Resp: 24632

Ion	Ratio	Lower	Upper
105	100		
120	22.6	12.8	38.3



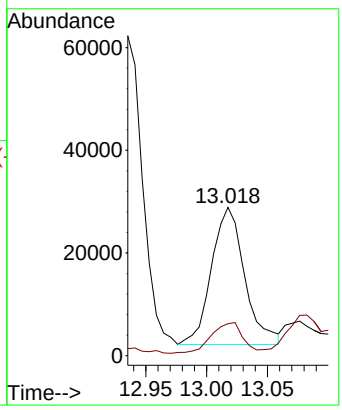


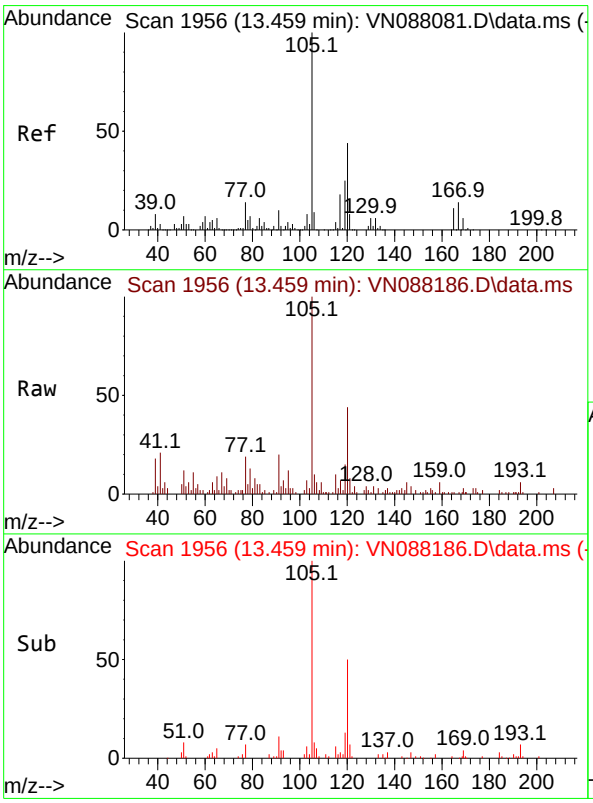
#78
n-propylbenzene
Concen: 1.936 ug/l
RT: 13.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Tgt Ion: 91 Resp: 50738

Ion	Ratio	Lower	Upper
91	100		
120	23.7	10.7	32.1

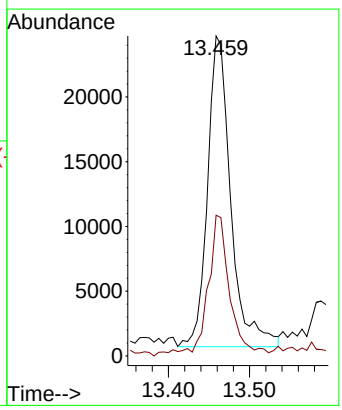


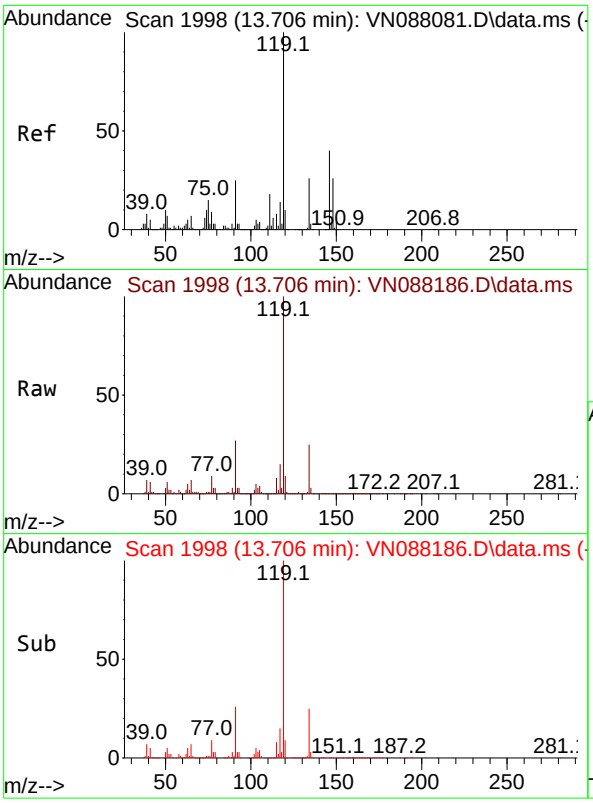


#84
1,2,4-Trimethylbenzene
Concen: 2.671 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Tgt Ion:105 Resp: 47676

Ion	Ratio	Lower	Upper
105	100		
120	43.3	22.0	66.0



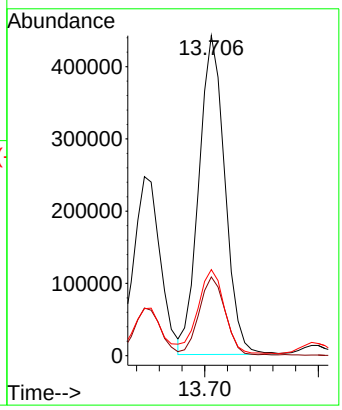


#86
p-Isopropyltoluene
Concen: 37.311 ug/l
RT: 13.706 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088186.D
Acq: 31 Oct 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Tgt Ion:119 Resp: 700814

Ion	Ratio	Lower	Upper
119	100		
134	24.4	12.7	38.0
91	26.9	12.5	37.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Title : SW846 8260

Signal : TIC: VN088186.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.101	20	25	32	rVB2	26009	41255	1.53%	0.119%
2	2.312	55	61	69	rBV	25961	44338	1.65%	0.128%
3	2.871	138	156	158	rBV5	45248	174645	6.49%	0.505%
4	2.959	166	171	177	rBV	68637	115162	4.28%	0.333%
5	4.436	411	422	438	rVB	104327	377363	14.02%	1.090%
6	5.012	509	520	534	rBV	51913	175967	6.54%	0.509%
7	6.706	798	808	826	rBV2	49243	158692	5.90%	0.459%
8	7.489	930	941	950	rBV2	10275	35453	1.32%	0.102%
9	7.977	1017	1024	1037	rVB6	15822	40085	1.49%	0.116%
10	8.147	1043	1053	1057	rBV	281120	690845	25.67%	1.996%
11	8.200	1057	1062	1078	rVB2	438761	1107233	41.14%	3.200%
12	8.559	1114	1123	1136	rBV	341393	810193	30.10%	2.341%
13	9.018	1195	1201	1204	rVV4	31069	63864	2.37%	0.185%
14	9.077	1204	1211	1220	rVV	740821	1563087	58.08%	4.517%
15	9.147	1220	1223	1234	rVB3	30907	70983	2.64%	0.205%
16	9.359	1253	1259	1269	rVB5	22934	55257	2.05%	0.160%
17	10.077	1371	1381	1388	rBV2	137637	283958	10.55%	0.821%
18	10.429	1434	1441	1448	rBV8	14716	30154	1.12%	0.087%
19	10.541	1450	1460	1466	rBV	1196604	2240148	83.24%	6.473%
20	10.606	1466	1471	1480	rVB	805658	1470858	54.65%	4.250%
21	10.724	1487	1491	1496	rVB4	19407	30481	1.13%	0.088%
22	10.959	1526	1531	1535	rBV3	18788	30426	1.13%	0.088%
23	11.235	1568	1578	1581	rBV3	44746	92507	3.44%	0.267%
24	11.271	1581	1584	1591	rVB3	33136	55998	2.08%	0.162%
25	11.412	1604	1608	1613	rBV5	19247	36123	1.34%	0.104%
26	11.841	1674	1681	1691	rBV	1006581	1901868	70.67%	5.496%
27	11.941	1692	1698	1705	rVV	617094	1070973	39.79%	3.095%
28	12.041	1709	1715	1726	rVB2	188578	424803	15.78%	1.228%
29	12.318	1757	1762	1764	rBV5	36044	64531	2.40%	0.186%
30	12.582	1800	1807	1813	rBV2	250160	467138	17.36%	1.350%
31	12.676	1820	1823	1827	rVB3	32228	49157	1.83%	0.142%
32	12.735	1827	1833	1838	rBV	216448	348407	12.95%	1.007%
33	12.788	1838	1842	1843	rBV3	35966	36500	1.36%	0.105%
34	12.829	1843	1849	1856	rVV	734157	1302213	48.39%	3.763%
35	12.894	1856	1860	1861	rVV	113656	147102	5.47%	0.425%
36	12.935	1861	1867	1874	rVB	1011365	1814808	67.43%	5.244%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Title : SW846 8260

37	13.018	1874	1881	1887	rVB2	102150	210741	7.83%	0.609%
38	13.076	1887	1891	1894	rBV2	73589	120991	4.50%	0.350%
39	13.170	1904	1907	1913	rVB4	79494	123546	4.59%	0.357%
40	13.259	1917	1922	1929	rVB4	147438	302262	11.23%	0.873%
41	13.459	1952	1956	1962	rVB	65531	109687	4.08%	0.317%
42	13.612	1968	1982	1984	rBV2	339884	814952	30.28%	2.355%
43	13.647	1984	1988	1992	rVV	753134	1329745	49.41%	3.843%
44	13.706	1993	1998	2003	rVB	1207129	1969280	73.17%	5.691%
45	13.770	2003	2009	2028	rVB2	1109315	2691314	100.00%	7.777%
46	13.970	2031	2043	2050	rBV7	241479	892260	33.15%	2.578%
47	14.041	2051	2055	2056	rBV3	108295	138707	5.15%	0.401%
48	14.300	2097	2099	2105	rVB3	57951	90302	3.36%	0.261%
49	14.394	2109	2115	2126	rVV3	676865	1313907	48.82%	3.797%
50	14.523	2129	2137	2145	rVB6	129237	406608	15.11%	1.175%
51	14.641	2153	2157	2166	rVB7	137409	406274	15.10%	1.174%
52	14.712	2166	2169	2174	rVB5	47761	66909	2.49%	0.193%
53	14.782	2177	2181	2190	rBV4	142715	344992	12.82%	0.997%
54	14.912	2198	2203	2212	rVB6	194658	508183	18.88%	1.469%
55	15.029	2215	2223	2230	rVV4	221822	508888	18.91%	1.471%
56	15.123	2235	2239	2244	rVB	305620	464488	17.26%	1.342%
57	15.294	2263	2268	2274	rVB3	102848	194646	7.23%	0.562%
58	15.417	2283	2289	2306	rVB3	252828	900091	33.44%	2.601%
59	15.612	2310	2322	2330	rBV2	476347	1298323	48.24%	3.752%
60	16.176	2414	2418	2421	rBV6	62047	119863	4.45%	0.346%
61	16.264	2430	2433	2450	rVB4	158211	511778	19.02%	1.479%
62	16.664	2494	2501	2507	rBV4	140085	308710	11.47%	0.892%
63	16.747	2508	2515	2522	rBV2	438194	1034878	38.45%	2.991%

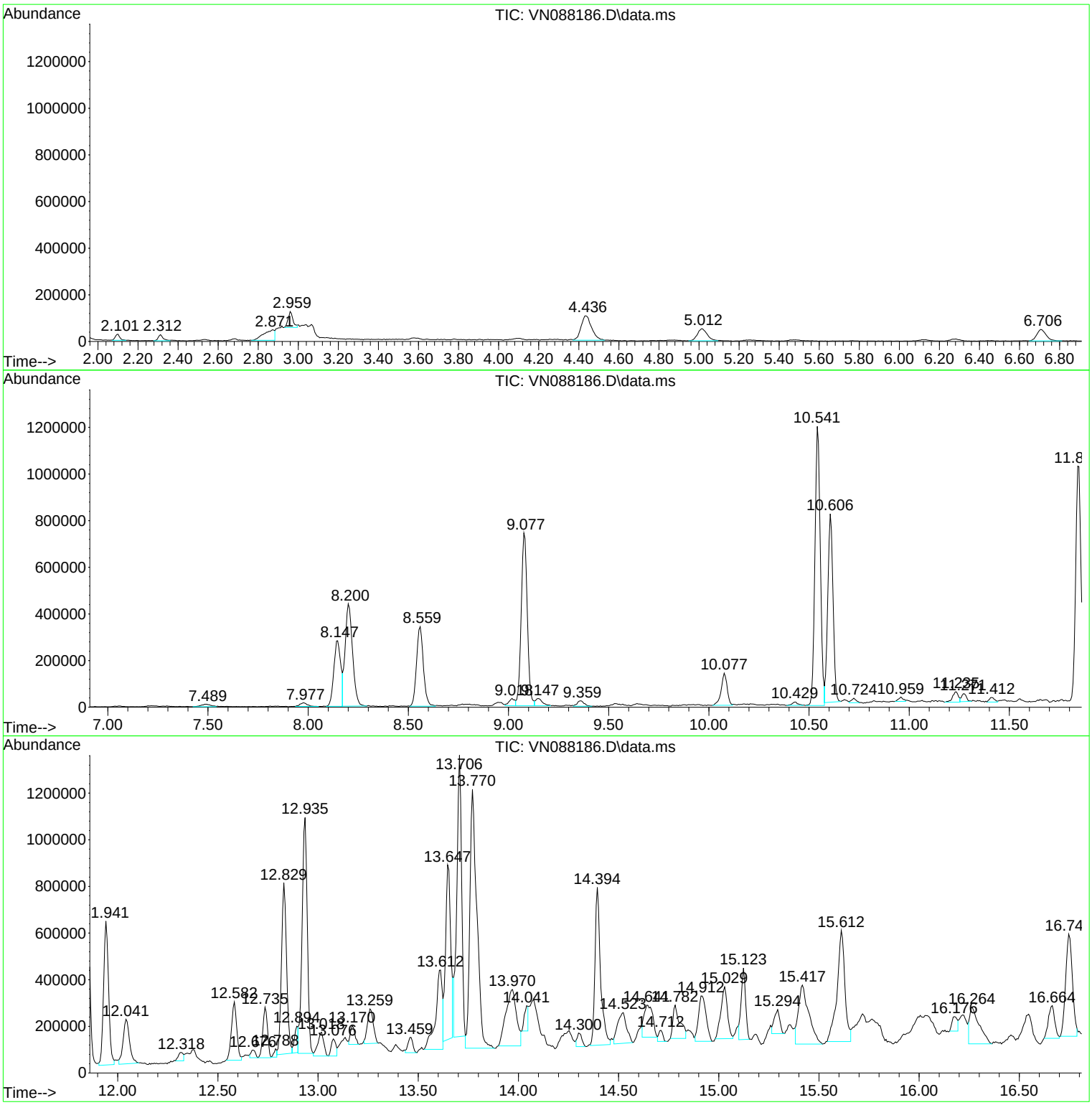
Sum of corrected areas: 34604900

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

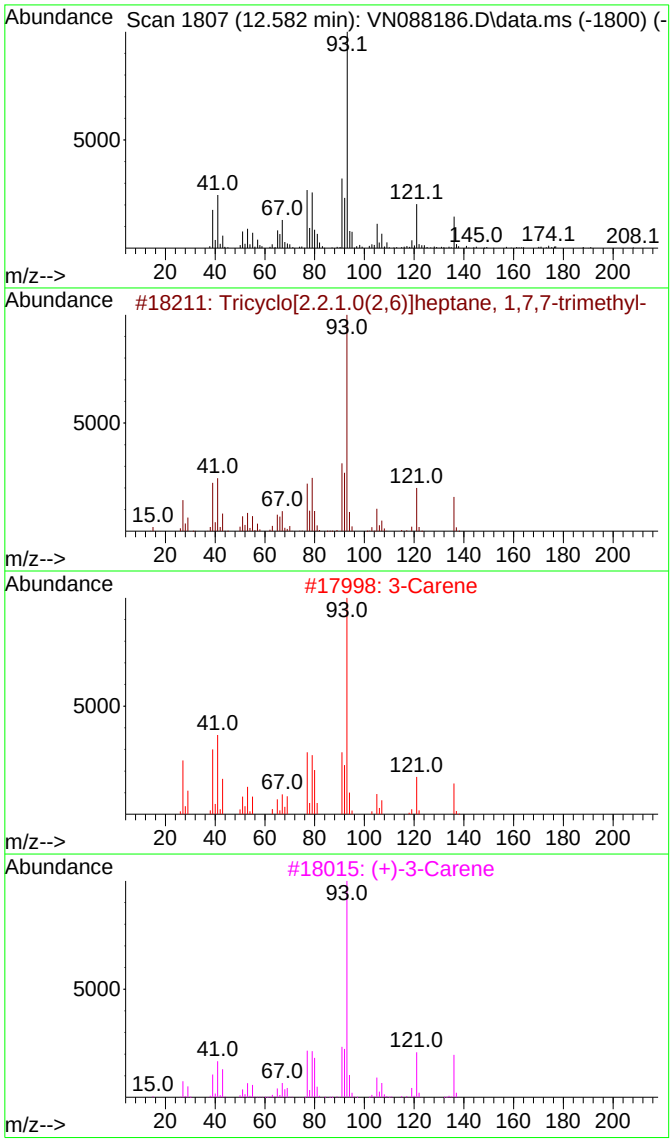
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

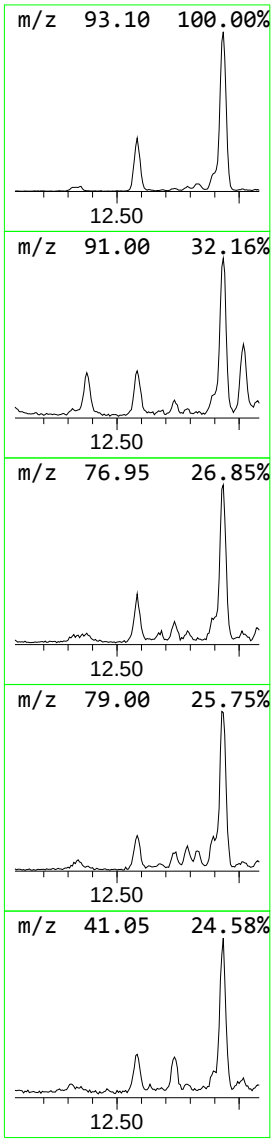
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Tricyclo[2.2.1.0(2,6)]hepta... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.582	12.28 ug/l	467138	Chlorobenzene-d5	11.847

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricyclo[2.2.1.0(2,6)]heptane, 1...	136	C10H16	000508-32-7	96
2	3-Carene	136	C10H16	013466-78-9	94
3	(+)-3-Carene	136	C10H16	000498-15-7	91
4	(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	91
5	Tricyclo[2.2.1.0(2,6)]heptane, 1...	136	C10H16	000488-97-1	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

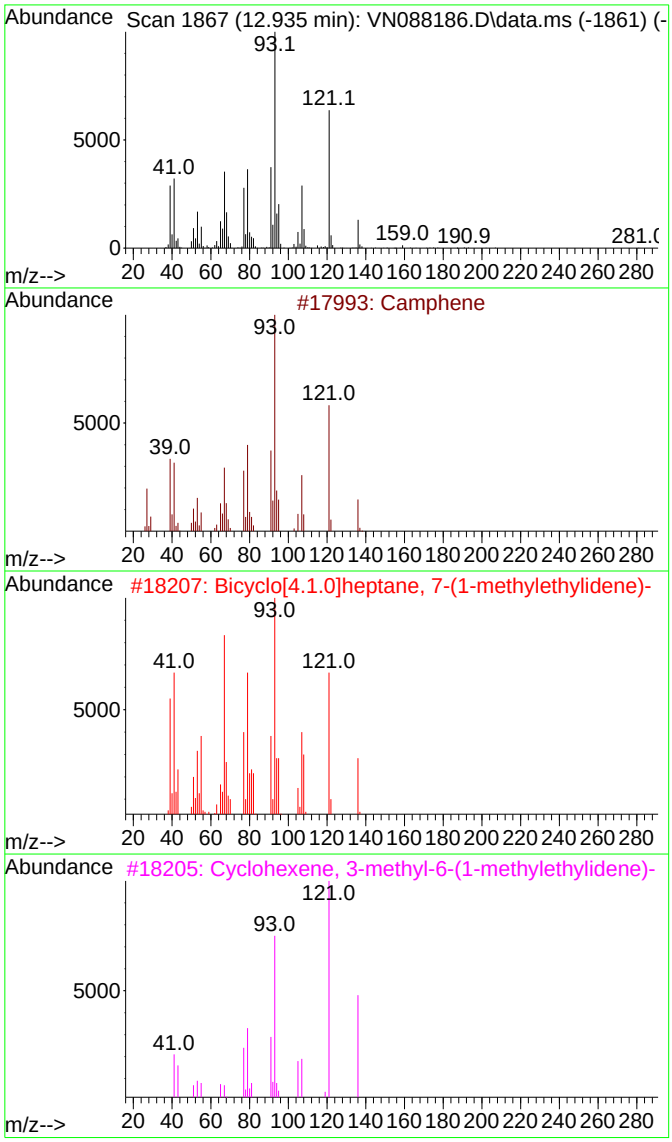
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

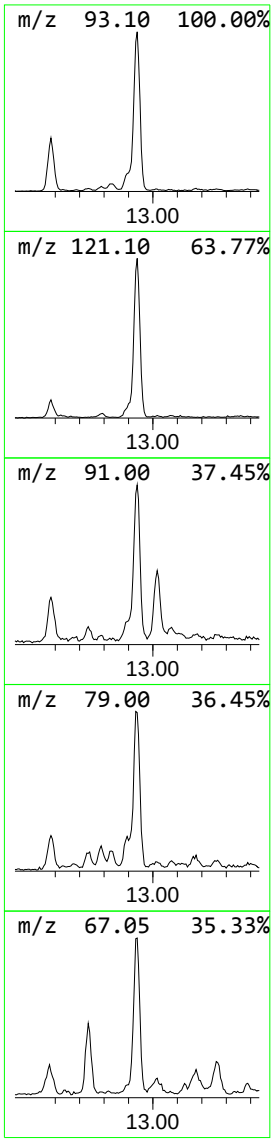
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Peak Number 2 Camphene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.935	33.72 ug/l	1814810	1,4-Dichlorobenzene-d4	13.771

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Camphene	136	C10H16	000079-92-5	95
2	Bicyclo[4.1.0]heptane, 7-(1-meth...	136	C10H16	053282-47-6	81
3	Cyclohexene, 3-methyl-6-(1-methy...	136	C10H16	000586-63-0	81
4	Cyclohexene, 1-methyl-4-(1-methy...	136	C10H16	000586-62-9	76
5	2-Carene	136	C10H16	000554-61-0	68





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

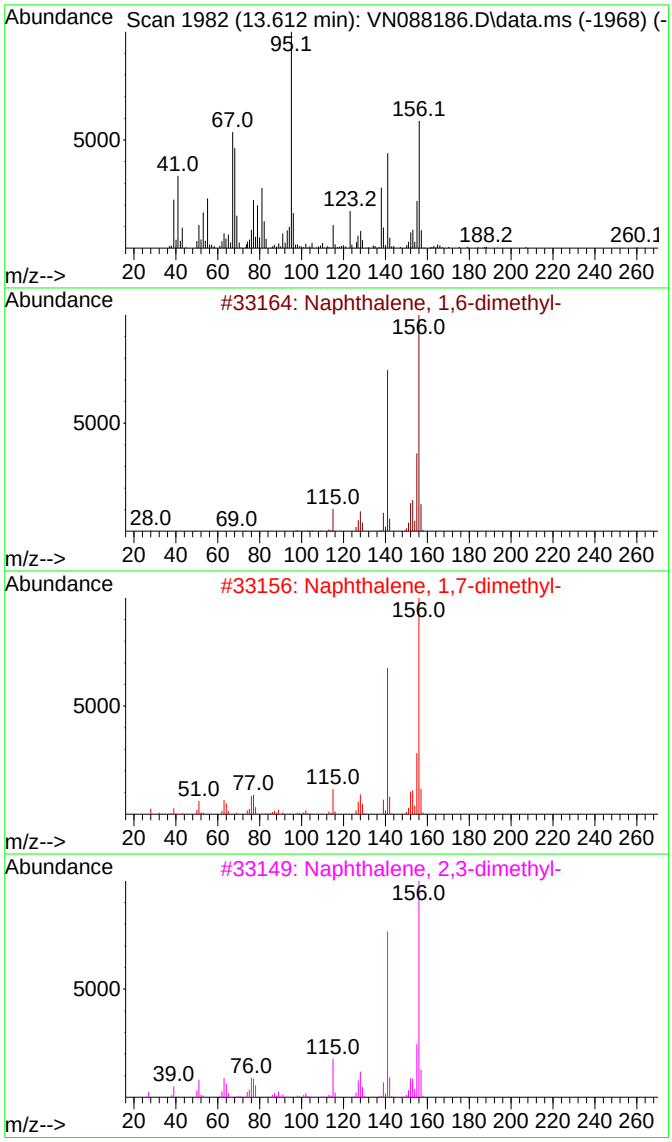
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

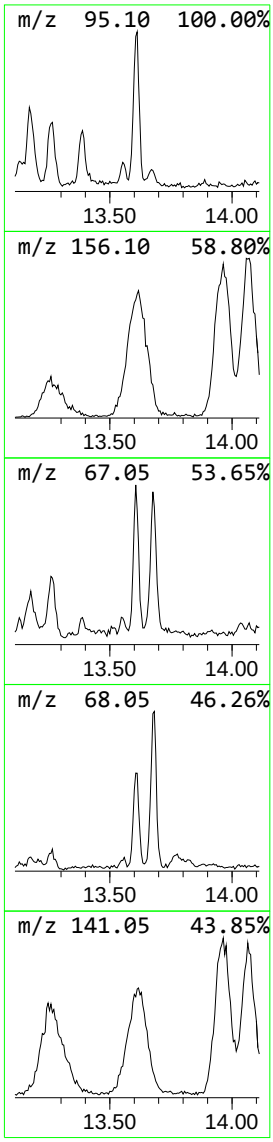
****

Peak Number 3 Naphthalene, 1,6-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.612	15.14 ug/l	814952	1,4-Dichlorobenzene-d4	13.771

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	91
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	68
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	68
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	68





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

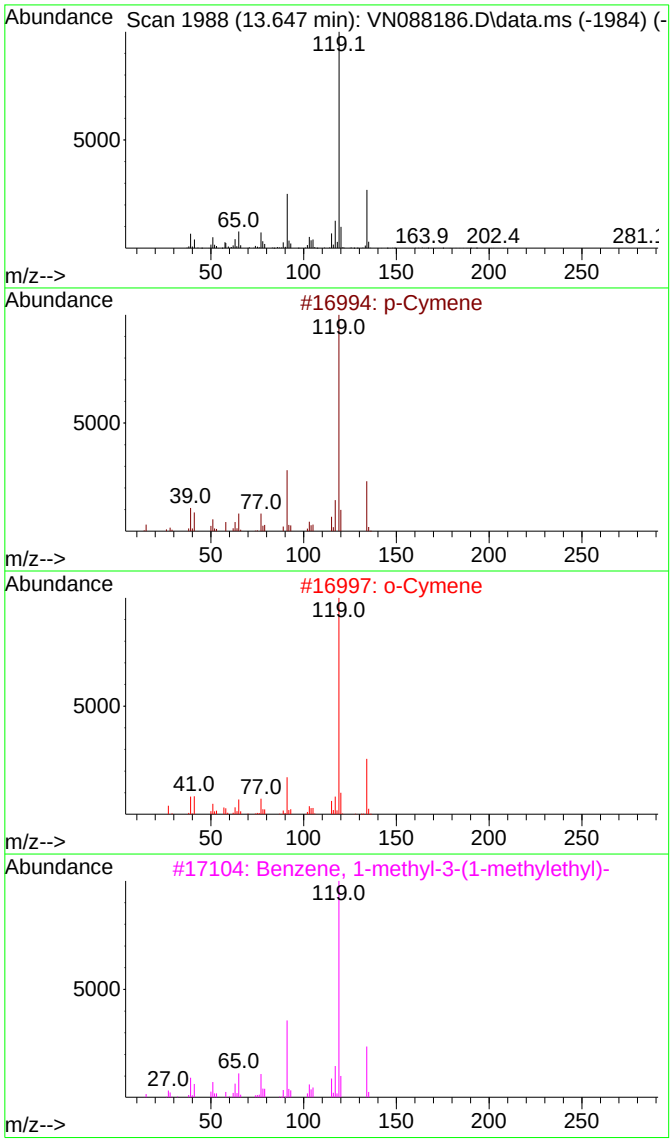
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TIC Integration Parameters: LSCINT.P

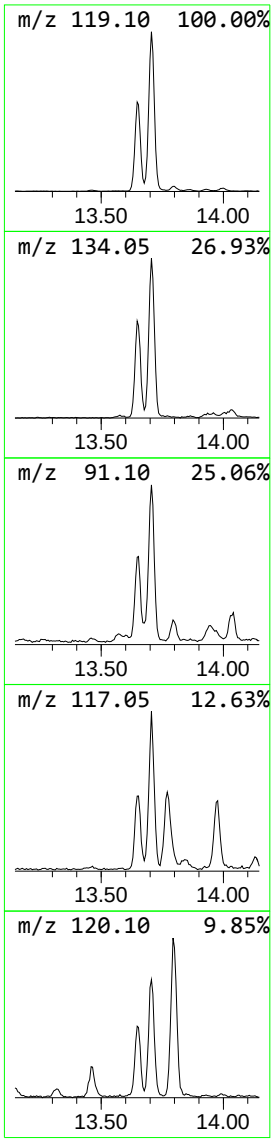
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Peak Number 4 o-Cymene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.647	24.70 ug/l	1329750	1,4-Dichlorobenzene-d4	13.771

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Cymene	134	C10H14	000099-87-6	97
2	o-Cymene	134	C10H14	000527-84-4	95
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
4	1,3,5-Cycloheptatriene, 3,7,7-tr...	134	C10H14	003479-89-8	94
5	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

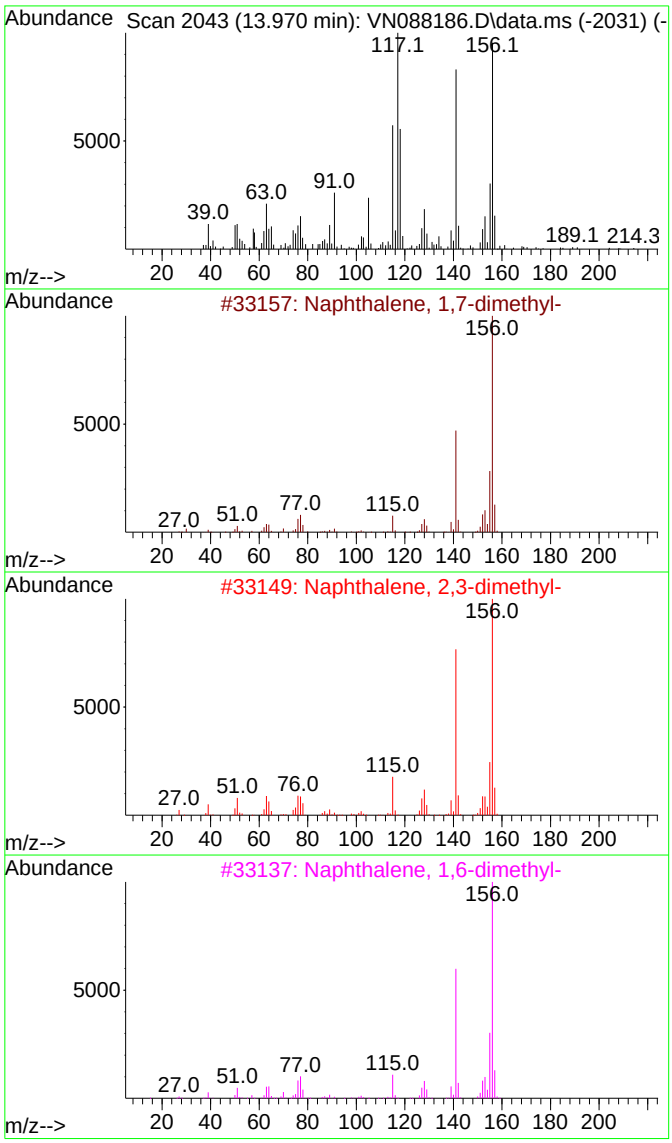
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TIC Integration Parameters: LSCINT.P

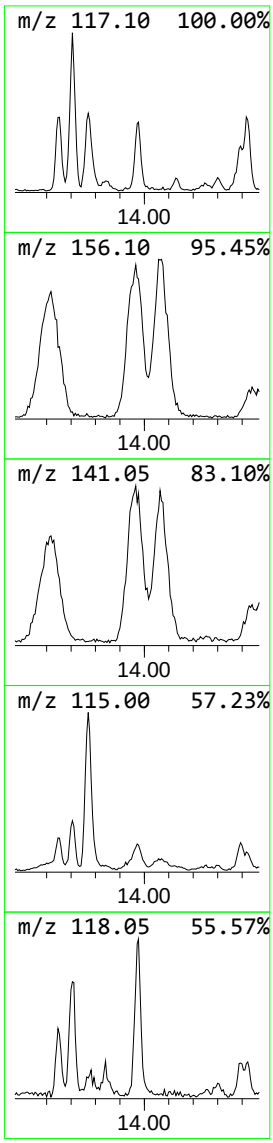
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Peak Number 5 Naphthalene, 1,7-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.970	16.58 ug/l	892260	1,4-Dichlorobenzene-d4	13.771

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	90
2	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	90
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	90
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	90
5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

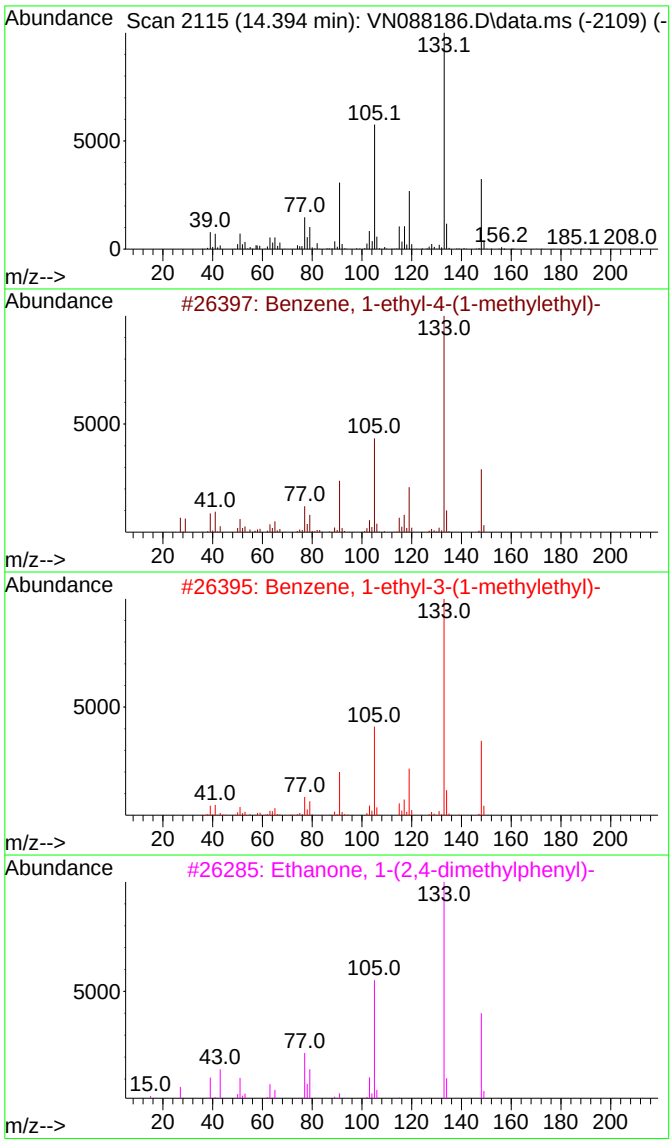
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Quant Title : SW846 8260

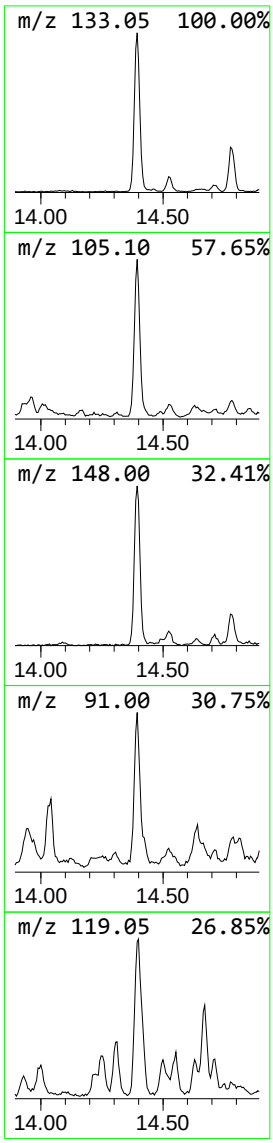
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 Benzene, 1-ethyl-4-(1-methy... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.394	24.41 ug/l	1313910	1,4-Dichlorobenzene-d4	13.771

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-(1-methylethyl)-	148	C11H16	004218-48-8	96
2	Benzene, 1-ethyl-3-(1-methylethyl)-	148	C11H16	004920-99-4	95
3	Ethanone, 1-(2,4-dimethylphenyl)-	148	C10H12O	000089-74-7	94
4	Ethanone, 1-(3,4-dimethylphenyl)-	148	C10H12O	003637-01-2	93
5	Benzene, 1-(1,1-dimethylethyl)-3...	148	C11H16	001075-38-3	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

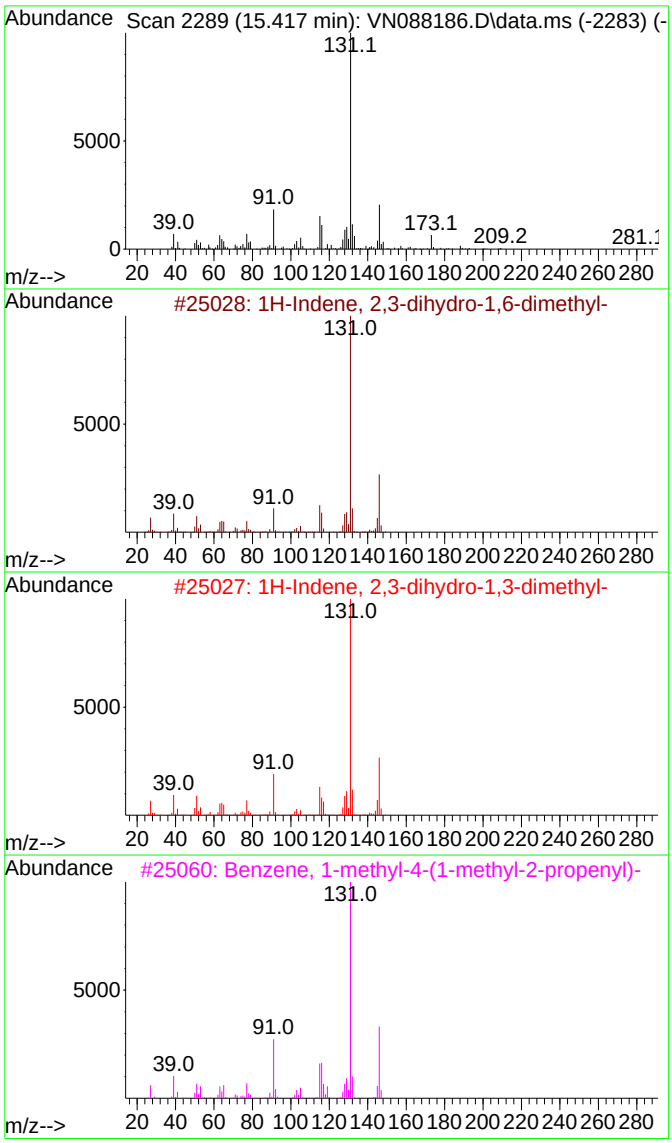
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

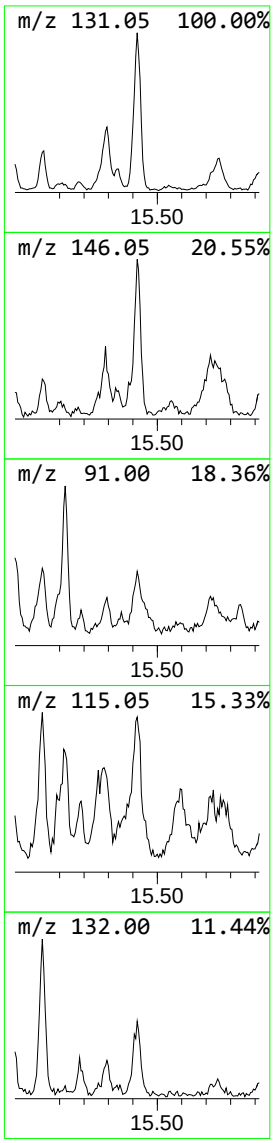
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.417	16.72 ug/l	900091	1,4-Dichlorobenzene-d4	13.771

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,6-dimet...	146	C11H14	017059-48-2	87
2	1H-Indene, 2,3-dihydro-1,3-dimet...	146	C11H14	004175-53-5	87
3	Benzene, 1-methyl-4-(1-methyl-2-...	146	C11H14	097664-18-1	87
4	Bicyclo[4.2.0]octa-1,3,5-triene,...	146	C11H14	027087-54-3	87
5	1H-Indene, 2,3-dihydro-1,1-dimet...	146	C11H14	004912-92-9	87





Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

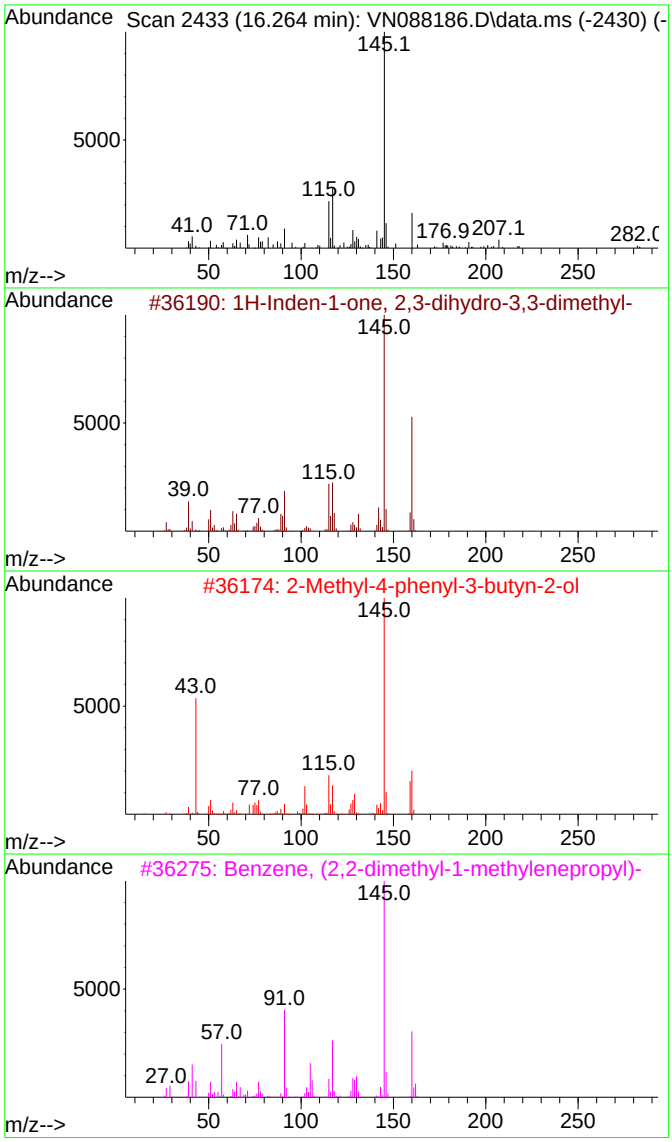
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

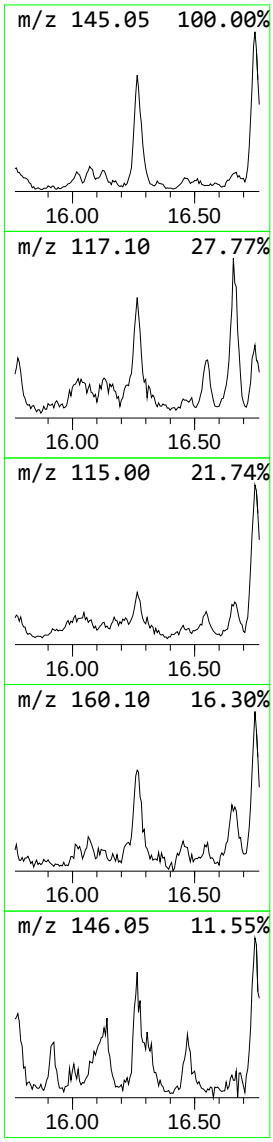
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 1H-Inden-1-one, 2,3-dihydro... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.264	9.51 ug/l	511778	1,4-Dichlorobenzene-d4	13.771

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Inden-1-one, 2,3-dihydro-3,3-...	160	C11H12O	026465-81-6	87
2	2-Methyl-4-phenyl-3-butyn-2-ol	160	C11H12O	001719-19-3	80
3	Benzene, (2,2-dimethyl-1-methyle...	160	C12H16	005676-29-9	59
4	Benzene, 1-(1,1-dimethylethyl)-4...	160	C12H16	001746-23-2	59
5	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	021693-54-9	58





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088186.D
Acq On : 31 Oct 2025 14:21
Operator : JC\MD
Sample : Q3447-07
Misc : 3.22g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
P001-TW4-251023-01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	Internal Standard RT	Internal Standard Resp	Internal Standard Conc
Tricyclo[2.2.1....	12.582	12.3	ug/l	467138	3	11.847	1901870	50.0
Camphene	12.935	33.7	ug/l	1814810	4	13.771	2691310	50.0
Naphthalene, 1,...	13.612	15.1	ug/l	814952	4	13.771	2691310	50.0
o-Cymene	13.647	24.7	ug/l	1329750	4	13.771	2691310	50.0
Naphthalene, 1,...	13.970	16.6	ug/l	892260	4	13.771	2691310	50.0
Benzene, 1-ethy...	14.394	24.4	ug/l	1313910	4	13.771	2691310	50.0
1H-Indene, 2,3-...	15.417	16.7	ug/l	900091	4	13.771	2691310	50.0
1H-Inden-1-one,...	16.264	9.5	ug/l	511778	4	13.771	2691310	50.0

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: Alliance | Contract: ROYF02

Lab Code: ACE | SDG No.: Q3447

Instrument ID: MSVOA_N | Calibration Date(s): 10/23/2025 10/23/2025

Heated Purge: (Y/N) N | Calibration Time(s): 09:42 12:02

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

LAB FILE ID: RRF001 = VN088078.D RRF005 = VN088079.D RRF020 = VN088080.D
RRF050 = VN088081.D RRF100 = VN088082.D RRF150 = VN088083.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.606	0.645	0.594	0.458	0.493	0.588	0.564	12.8
Chloromethane	0.782	0.707	0.725	0.519	0.579	0.669	0.664	14.7
Vinyl Chloride	0.801	0.784	0.787	0.581	0.639	0.746	0.723	12.6
Bromomethane		0.527	0.485	0.341	0.389	0.420	0.432	17.2
Chloroethane	0.598	0.601	0.558	0.413	0.447	0.509	0.521	15.2
Trichlorofluoromethane	1.199	1.317	1.246	0.955	1.031	1.171	1.153	11.8
1,1,2-Trichlorotrifluoroethane	0.637	0.632	0.612	0.476	0.561	0.653	0.595	11.2
1,1-Dichloroethene	0.806	0.686	0.631	0.462	0.547	0.637	0.628	18.7
Acetone	0.563	0.441	0.440	0.319	0.411	0.431	0.434	17.9
Carbon Disulfide	2.143	2.041	1.984	1.483	1.917	1.895	1.910	11.9
Methyl tert-butyl Ether	2.356	2.498	2.493	1.790	2.370	2.342	2.308	11.4
Methyl Acetate	0.982	0.910	0.980	0.688	0.896	0.880	0.889	12.1
Methylene Chloride	0.894	0.774	0.775	0.540	0.708	0.684	0.729	16.2
trans-1,2-Dichloroethene	0.820	0.716	0.715	0.536	0.673	0.678	0.690	13.3
1,1-Dichloroethane	1.371	1.432	1.418	1.026	1.142	1.312	1.283	12.8
Cyclohexane		1.488	1.301	0.965	1.055	1.243	1.210	17.1
2-Butanone	0.615	0.616	0.639	0.465	0.516	0.584	0.572	11.8
Carbon Tetrachloride	0.544	0.525	0.538	0.417	0.470	0.546	0.507	10.3
cis-1,2-Dichloroethene	0.884	0.892	0.868	0.626	0.694	0.800	0.794	13.9
Bromochloromethane	0.608	0.669	0.549	0.589	0.596	0.627	0.606	6.6
Chloroform	1.334	1.433	1.405	1.040	1.162	1.318	1.282	11.8
1,1,1-Trichloroethane	1.293	1.230	1.241	0.912	1.014	1.160	1.142	13
Methylcyclohexane	0.701	0.649	0.634	0.524	0.578	0.698	0.630	11
Benzene	1.621	1.577	1.609	1.216	1.372	1.566	1.494	10.9
1,2-Dichloroethane	0.552	0.572	0.590	0.436	0.480	0.554	0.531	11.2
Trichloroethene	0.375	0.374	0.374	0.284	0.318	0.369	0.349	11.1
1,2-Dichloropropane	0.420	0.408	0.397	0.306	0.340	0.391	0.377	11.7
Bromodichloromethane	0.561	0.570	0.589	0.439	0.499	0.573	0.538	10.8
4-Methyl-2-Pentanone	0.548	0.600	0.647	0.485	0.552	0.620	0.575	10.2
Toluene	0.971	0.958	0.991	0.755	0.862	0.989	0.921	10.2

* 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.

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: ROYF02

Lab Code: ACE | SDG No.: Q3447

Instrument ID: MSVOA_N | Calibration Date(s): 10/23/2025 10/23/2025

Heated Purge: (Y/N) N | Calibration Time(s): 09:42 12:02

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

LAB FILE ID: RRF001 = VN088078.D RRF005 = VN088079.D RRF020 = VN088080.D
RRF050 = VN088081.D RRF100 = VN088082.D RRF150 = VN088083.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.554	0.576	0.618	0.479	0.559	0.652	0.573	10.4
cis-1,3-Dichloropropene	0.615	0.622	0.652	0.501	0.587	0.671	0.608	9.9
1,1,2-Trichloroethane	0.421	0.348	0.374	0.281	0.317	0.355	0.349	13.7
2-Hexanone	0.369	0.332	0.418	0.333	0.392	0.447	0.382	12.1
Dibromochloromethane	0.418	0.392	0.433	0.327	0.377	0.436	0.397	10.4
1,2-Dibromoethane	0.403	0.356	0.384	0.289	0.339	0.388	0.360	11.6
Tetrachloroethene	0.400	0.344	0.335	0.258	0.298	0.344	0.330	14.6
Chlorobenzene	1.197	1.208	1.205	0.941	1.053	1.208	1.135	9.9
Ethyl Benzene	2.069	2.066	2.123	1.649	1.873	2.177	1.993	9.9
m/p-Xylenes	0.733	0.774	0.804	0.635	0.708	0.827	0.747	9.4
o-Xylene	0.670	0.742	0.764	0.604	0.684	0.784	0.708	9.6
Styrene	0.946	1.204	1.276	1.011	1.165	1.325	1.154	12.9
Bromoform	0.268	0.274	0.294	0.233	0.276	0.320	0.278	10.4
Isopropylbenzene	4.189	3.857	4.067	3.173	3.580	4.272	3.856	10.8
1,1,2,2-Tetrachloroethane	1.304	1.258	1.336	0.957	1.080	1.270	1.201	12.4
1,3-Dichlorobenzene	1.777	1.673	1.822	1.380	1.535	1.773	1.660	10.3
1,4-Dichlorobenzene	2.065	1.953	1.863	1.399	1.582	1.836	1.783	13.9
1,2-Dichlorobenzene	1.768	1.652	1.678	1.291	1.469	1.744	1.600	11.5
1,2-Dibromo-3-Chloropropane	0.325	0.289	0.301	0.214	0.243	0.305	0.279	15.1
1,2,4-Trichlorobenzene	1.058	0.976	0.989	0.785	0.902	1.105	0.969	11.8
1,2,3-Trichlorobenzene	1.098	0.894	0.937	0.736	0.848	1.062	0.929	14.5
1,2-Dichloroethane-d4		0.914	0.915	0.799	0.822	0.872	0.865	6.1
Dibromofluoromethane		0.343	0.344	0.315	0.327	0.350	0.336	4.3
Toluene-d8		1.283	1.298	1.224	1.283	1.384	1.294	4.4
4-Bromofluorobenzene		0.435	0.457	0.439	0.466	0.488	0.457	4.8

* 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 : 82N102325W.M
Title : SW846 8260
Last Update : Sat Oct 25 00:15:22 2025
Response Via : Initial Calibration

Calibration Files
1 =VN088078.D 5 =VN088079.D 20 =VN088080.D 50 =VN088081.D 100 =VN088082.D 150 =VN088083.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.606	0.645	0.594	0.458	0.493	0.588	0.564	12.84
3)	P	Chloromethane	0.782	0.707	0.725	0.519	0.579	0.669	0.664	14.74
4)	C	Vinyl Chloride	0.801	0.784	0.787	0.581	0.639	0.746	0.723	12.62#
5)	T	Bromomethane		0.527	0.485	0.341	0.389	0.420	0.432	17.19
6)	T	Chloroethane	0.598	0.601	0.558	0.413	0.447	0.509	0.521	15.15
7)	T	Trichlorofluor...	1.199	1.317	1.246	0.955	1.031	1.171	1.153	11.77
8)	T	Diethyl Ether	0.456	0.501	0.455	0.320	0.400	0.440	0.429	14.57
9)	T	1,1,2-Trichlor...	0.637	0.632	0.612	0.476	0.561	0.653	0.595	11.19
10)	T	Methyl Iodide		0.430	0.550	0.456	0.674	0.609	0.544	18.85
11)	T	Tert butyl alc...		0.164	0.170	0.116	0.151	0.144	0.149	14.24
12)	CM	1,1-Dichloroet...	0.806	0.686	0.631	0.462	0.547	0.637	0.628	18.71#
13)	T	Acrolein		0.196	0.172	0.124	0.163	0.183	0.168	16.30
14)	T	Allyl chloride	1.325	1.149	1.106	0.813	1.124	1.093	1.102	14.98
15)	T	Acrylonitrile	0.398	0.423	0.452	0.324	0.426	0.413	0.406	10.82
16)	T	Acetone	0.563	0.441	0.440	0.319	0.411	0.431	0.434	17.93
17)	T	Carbon Disulfide	2.143	2.041	1.984	1.483	1.917	1.895	1.910	11.92
18)	T	Methyl Acetate	0.982	0.910	0.980	0.688	0.896	0.880	0.889	12.10
19)	T	Methyl tert-bu...	2.356	2.498	2.493	1.790	2.370	2.342	2.308	11.40
20)	T	Methylene Chlo...	0.894	0.774	0.775	0.540	0.708	0.684	0.729	16.17
21)	T	trans-1,2-Dich...	0.820	0.716	0.715	0.536	0.673	0.678	0.690	13.32
22)	T	Diisopropyl ether	2.325	2.460	2.644	1.883	2.138	2.449	2.317	11.68
23)	T	Vinyl Acetate	1.958	2.237	2.387	1.737	1.958	2.244	2.087	11.60
24)	P	1,1-Dichloroet...	1.371	1.432	1.418	1.026	1.142	1.312	1.283	12.80
25)	T	2-Butanone	0.615	0.616	0.639	0.465	0.516	0.584	0.572	11.81
26)	T	2,2-Dichloropr...	1.403	1.226	1.234	0.920	1.023	1.190	1.166	14.65
27)	T	cis-1,2-Dichlo...	0.884	0.892	0.868	0.626	0.694	0.800	0.794	13.94
28)	T	Bromochloromet...	0.608	0.669	0.549	0.589	0.596	0.627	0.606	6.59
29)	T	Tetrahydrofuran	0.413	0.385	0.422	0.296	0.340	0.382	0.373	12.63
30)	C	Chloroform	1.334	1.433	1.405	1.040	1.162	1.318	1.282	11.82#
31)	T	Cyclohexane		1.488	1.301	0.965	1.055	1.243	1.210	17.05
32)	T	1,1,1-Trichlor...	1.293	1.230	1.241	0.912	1.014	1.160	1.142	13.00
33)	S	1,2-Dichloroet...		0.914	0.915	0.799	0.822	0.872	0.865	6.10
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.343	0.344	0.315	0.327	0.350	0.336	4.27
36)	T	1,1-Dichloropr...	0.515	0.514	0.530	0.406	0.453	0.525	0.490	10.21
37)	T	Ethyl Acetate	0.742	0.656	0.676	0.491	0.579	0.653	0.633	13.72
38)	T	Carbon Tetrach...	0.544	0.525	0.538	0.417	0.470	0.546	0.507	10.30
39)	T	Methylcyclohexane	0.701	0.649	0.634	0.524	0.578	0.698	0.630	11.01
40)	TM	Benzene	1.621	1.577	1.609	1.216	1.372	1.566	1.494	10.93
41)	T	Methacrylonitrile	0.394	0.342	0.354	0.271	0.296	0.342	0.333	13.12
42)	TM	1,2-Dichloroet...	0.552	0.572	0.590	0.436	0.480	0.554	0.531	11.22
43)	T	Isopropyl Acetate	0.991	1.008	1.066	0.810	0.913	1.047	0.973	9.81
44)	TM	Trichloroethene	0.375	0.374	0.374	0.284	0.318	0.369	0.349	11.10
45)	C	1,2-Dichloropr...	0.420	0.408	0.397	0.306	0.340	0.391	0.377	11.73#
46)	T	Dibromomethane	0.275	0.298	0.295	0.218	0.246	0.281	0.269	11.50
47)	T	Bromodichlorom...	0.561	0.570	0.589	0.439	0.499	0.573	0.538	10.77
48)	T	Methyl methacr...	0.488	0.429	0.489	0.372	0.425	0.490	0.449	10.78
49)	T	1,4-Dioxane	0.005	0.006	0.006	0.004	0.005	0.006	0.006	13.34
50)	S	Toluene-d8		1.283	1.298	1.223	1.283	1.384	1.294	4.45
51)	T	4-Methyl-2-Pen...	0.548	0.600	0.647	0.485	0.552	0.620	0.575	10.20
52)	CM	Toluene	0.971	0.958	0.991	0.755	0.862	0.989	0.921	10.23#
53)	T	t-1,3-Dichloro...	0.554	0.576	0.618	0.479	0.559	0.652	0.573	10.40
54)	T	cis-1,3-Dichlo...	0.615	0.622	0.652	0.501	0.587	0.671	0.608	9.91
55)	T	1,1,2-Trichlor...	0.421	0.348	0.374	0.281	0.317	0.355	0.349	13.68
56)	T	Ethyl methacry...	0.515	0.518	0.592	0.475	0.566	0.650	0.553	11.40

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
Method File : 82N102325W.M

57)	T	1,3-Dichloropr...	0.639	0.647	0.674	0.506	0.572	0.647	0.614	10.25
58)	T	2-Chloroethyl ...	0.280	0.274	0.299	0.245	0.280	0.348	0.288	11.93
59)	T	2-Hexanone	0.369	0.332	0.418	0.333	0.392	0.447	0.382	12.13
60)	T	Dibromochlorom...	0.418	0.392	0.433	0.327	0.377	0.436	0.397	10.44
61)	T	1,2-Dibromoethane	0.403	0.356	0.384	0.289	0.339	0.388	0.360	11.60
62)	S	4-Bromofluorob...		0.435	0.457	0.439	0.466	0.488	0.457	4.80
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.400	0.344	0.335	0.258	0.298	0.344	0.330	14.61
65)	PM	Chlorobenzene	1.197	1.208	1.205	0.941	1.053	1.208	1.135	9.93
66)	T	1,1,1,2-Tetrac...	0.396	0.385	0.395	0.310	0.348	0.397	0.372	9.57
67)	C	Ethyl Benzene	2.069	2.066	2.123	1.649	1.873	2.177	1.993	9.89#
68)	T	m/p-Xylenes	0.733	0.774	0.804	0.635	0.708	0.827	0.747	9.41
69)	T	o-Xylene	0.670	0.742	0.764	0.604	0.684	0.784	0.708	9.57
70)	T	Styrene	0.946	1.204	1.276	1.011	1.165	1.325	1.154	12.89
71)	P	Bromoform	0.268	0.274	0.294	0.233	0.276	0.320	0.278	10.43
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	4.189	3.857	4.067	3.173	3.580	4.272	3.856	10.83
74)	T	N-amyl acetate		0.931	0.993	0.920	1.094	1.535	1.095	23.37
75)	P	1,1,2,2-Tetrac...	1.304	1.258	1.336	0.957	1.080	1.270	1.201	12.42
76)	T	1,2,3-Trichlor...	1.334	1.351	1.062	0.930	1.014	1.169	1.143	15.11
77)	T	Bromobenzene	0.826	0.859	0.926	0.687	0.789	0.902	0.832	10.37
78)	T	n-propylbenzene	4.874	4.855	4.930	3.925	4.436	5.217	4.706	9.71
79)	T	2-Chlorotoluene	2.492	2.833	2.974	2.245	2.545	3.014	2.684	11.35
80)	T	1,3,5-Trimethy...	3.329	3.254	3.385	2.669	3.028	3.551	3.203	9.76
81)	T	trans-1,4-Dich...		0.422	0.399	0.317	0.403	0.508	0.410	16.68
82)	T	4-Chlorotoluene	3.219	3.019	3.114	2.345	2.623	3.102	2.904	11.81
83)	T	tert-Butylbenzene	3.154	2.876	3.002	2.358	2.646	3.131	2.861	10.80
84)	T	1,2,4-Trimethy...	3.242	3.316	3.465	2.700	3.012	3.491	3.204	9.42
85)	T	sec-Butylbenzene	4.578	4.273	4.382	3.490	3.881	4.616	4.203	10.43
86)	T	p-Isopropyltol...	3.269	3.541	3.602	2.866	3.170	3.783	3.372	9.90
87)	T	1,3-Dichlorobe...	1.777	1.673	1.822	1.380	1.535	1.773	1.660	10.33
88)	T	1,4-Dichlorobe...	2.065	1.953	1.863	1.399	1.582	1.836	1.783	13.86
89)	T	n-Butylbenzene	3.396	3.438	3.493	2.827	3.158	3.730	3.340	9.32
90)	T	Hexachloroethane	0.687	0.679	0.671	0.535	0.610	0.736	0.653	10.77
91)	T	1,2-Dichlorobe...	1.768	1.652	1.678	1.291	1.469	1.744	1.600	11.52
92)	T	1,2-Dibromo-3-...	0.325	0.289	0.301	0.214	0.243	0.305	0.279	15.13
93)	T	1,2,4-Trichlor...	1.058	0.976	0.989	0.785	0.902	1.105	0.969	11.80
94)	T	Hexachlorobuta...	0.412	0.374	0.373	0.293	0.319	0.395	0.361	12.69
95)	T	Naphthalene	3.451	3.110	3.437	2.732	3.203	3.987	3.320	12.63
96)	T	1,2,3-Trichlor...	1.098	0.894	0.937	0.736	0.848	1.062	0.929	14.54

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088078.D
Acq On : 23 Oct 2025 09:42
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 02:50:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:50:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.206	168	310632	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.083	114	586229	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.847	117	509993	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	233824	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	2.142	85	3763	1.074	ug/l		96
3) Chloromethane	2.389	50	4857	1.178	ug/l		88
4) Vinyl Chloride	2.542	62	4975	1.108	ug/l		98
6) Chloroethane	3.136	64	3717	1.149	ug/l	#	72
7) Trichlorofluoromethane	3.501	101	7446	1.039	ug/l		87
8) Diethyl Ether	3.959	74	2835	1.065	ug/l		60
9) 1,1,2-Trichlorotrifluo...	4.353	101	3959	1.071	ug/l	#	22
12) 1,1-Dichloroethene	4.348	96	5008	1.283	ug/l	#	64
14) Allyl chloride	5.012	41	8229m	1.206	ug/l		
15) Acrylonitrile	5.712	53	12351	4.900	ug/l		95
16) Acetone	4.424	43	17476	6.476	ug/l		95
17) Carbon Disulfide	4.700	76	13312	1.122	ug/l		96
18) Methyl Acetate	5.024	43	6099	1.104	ug/l	#	86
19) Methyl tert-butyl Ether	5.777	73	14637	1.021	ug/l		93
20) Methylene Chloride	5.265	84	5554	2.075	ug/l		93
21) trans-1,2-Dichloroethene	5.765	96	5093m	1.180	ug/l		
22) Diisopropyl ether	6.659	45	14446	1.004	ug/l		89
23) Vinyl Acetate	6.594	43	60828	4.692	ug/l	#	93
24) 1,1-Dichloroethane	6.553	63	8517	1.068	ug/l	#	82
25) 2-Butanone	7.477	43	19098m	5.426	ug/l		
26) 2,2-Dichloropropane	7.477	77	8718	1.203	ug/l		93
27) cis-1,2-Dichloroethene	7.471	96	5492	1.113	ug/l		93
28) Bromochloromethane	7.800	49	3776	1.002	ug/l	#	98
29) Tetrahydrofuran	7.836	42	12815	5.529	ug/l	#	65
30) Chloroform	7.953	83	8286	1.040	ug/l		96
32) 1,1,1-Trichloroethane	8.153	97	8036	1.133	ug/l	#	43
36) 1,1-Dichloropropene	8.347	75	6036	1.050	ug/l		90
37) Ethyl Acetate	7.553	43	8700m	1.177	ug/l		
38) Carbon Tetrachloride	8.347	117	6381	1.074	ug/l	#	92
39) Methylcyclohexane	9.583	83	8221	1.112	ug/l		92
40) Benzene	8.588	78	19008	1.085	ug/l		96
41) Methacrylonitrile	7.771	41	4616	1.182	ug/l	#	89
42) 1,2-Dichloroethane	8.653	62	6475	1.041	ug/l		100
43) Isopropyl Acetate	8.671	43	11616	1.019	ug/l		96
44) Trichloroethene	9.330	130	4394	1.073	ug/l		93
45) 1,2-Dichloropropane	9.600	63	4927	1.114	ug/l		91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088078.D
Acq On : 23 Oct 2025 09:42
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 02:50:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:50:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	9.688	93	3222	1.022	ug/l		90
47) Bromodichloromethane	9.871	83	6578	1.042	ug/l	#	99
48) Methyl methacrylate	9.671	41	5726m	1.057	ug/l		
49) 1,4-Dioxane	9.700	88	1238m	18.907	ug/l		
51) 4-Methyl-2-Pentanone	10.430	43	32109	4.760	ug/l		96
52) Toluene	10.606	92	11382	1.054	ug/l		90
53) t-1,3-Dichloropropene	10.818	75	6496	0.967	ug/l		99
54) cis-1,3-Dichloropropene	10.294	75	7213	1.012	ug/l		98
55) 1,1,2-Trichloroethane	11.000	97	4933	1.204	ug/l	#	82
56) Ethyl methacrylate	10.871	69	6039m	0.933	ug/l		
57) 1,3-Dichloropropane	11.147	76	7489	1.040	ug/l		89
58) 2-Chloroethyl Vinyl ether	10.141	63	16393	4.862	ug/l		99
59) 2-Hexanone	11.182	43	21660m	4.891	ug/l		
60) Dibromochloromethane	11.341	129	4900	1.052	ug/l		90
61) 1,2-Dibromoethane	11.447	107	4721	1.120	ug/l		83
64) Tetrachloroethene	11.088	164	4083	1.214	ug/l	#	79
65) Chlorobenzene	11.876	112	12205	1.054	ug/l	#	89
66) 1,1,1,2-Tetrachloroethane	11.941	131	4044	1.066	ug/l	#	65
67) Ethyl Benzene	11.947	91	21103	1.038	ug/l		96
68) m/p-Xylenes	12.053	106	14958	1.964	ug/l		93
69) o-Xylene	12.382	106	6831	0.946	ug/l		98
70) Styrene	12.394	104	9645	0.819	ug/l		99
71) Bromoform	12.565	173	2730	0.964	ug/l	#	100
73) Isopropylbenzene	12.676	105	19589	1.086	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.923	83	6098	1.086	ug/l		98
76) 1,2,3-Trichloropropane	12.971	75	6237m	1.246	ug/l		
77) Bromobenzene	12.959	156	3862	0.993	ug/l		71
78) n-propylbenzene	13.018	91	22793	1.036	ug/l		99
79) 2-Chlorotoluene	13.106	91	11655	0.929	ug/l		93
80) 1,3,5-Trimethylbenzene	13.153	105	15569	1.039	ug/l		98
82) 4-Chlorotoluene	13.200	91	15055	1.109	ug/l		93
83) tert-Butylbenzene	13.418	119	14748	1.102	ug/l		98
84) 1,2,4-Trimethylbenzene	13.459	105	15160	1.012	ug/l		97
85) sec-Butylbenzene	13.594	105	21410	1.089	ug/l		96
86) p-Isopropyltoluene	13.712	119	15289	0.970	ug/l		90
87) 1,3-Dichlorobenzene	13.718	146	8312	1.071	ug/l		100
88) 1,4-Dichlorobenzene	13.788	146	9656m	1.155	ug/l		
89) n-Butylbenzene	14.035	91	15880	1.017	ug/l		97
90) Hexachloroethane	14.312	117	3211	1.052	ug/l		96
91) 1,2-Dichlorobenzene	14.088	146	8266	1.105	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.700	75	1522	1.165	ug/l		75
93) 1,2,4-Trichlorobenzene	15.370	180	4946	1.091	ug/l		90
94) Hexachlorobutadiene	15.476	225	1928	1.142	ug/l		96
95) Naphthalene	15.617	128	16137	1.039	ug/l		99
96) 1,2,3-Trichlorobenzene	15.823	180	5137	1.182	ug/l		83

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

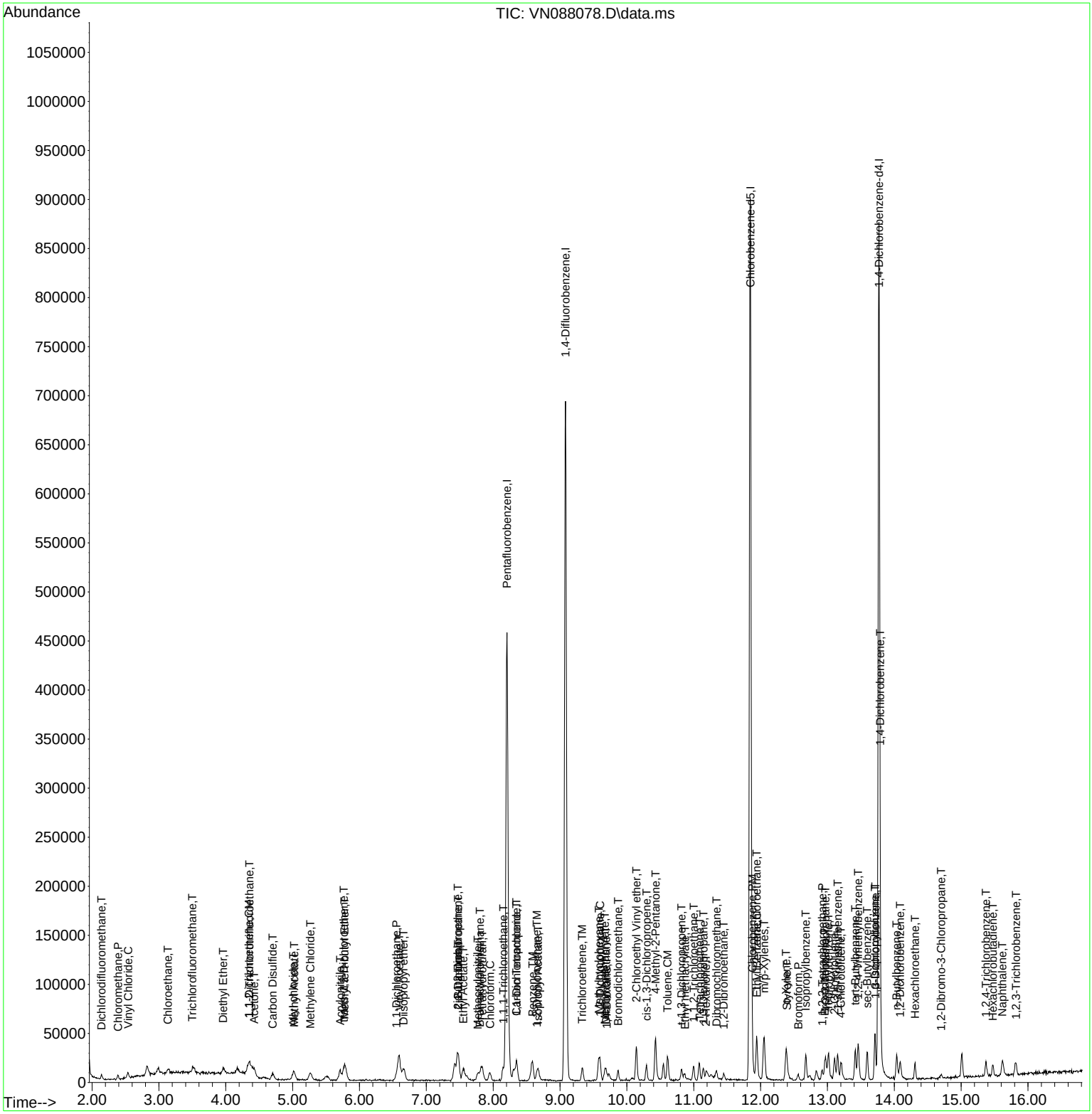
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Data File : VN088078.D
Acq On : 23 Oct 2025 09:42
Operator : JC\MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

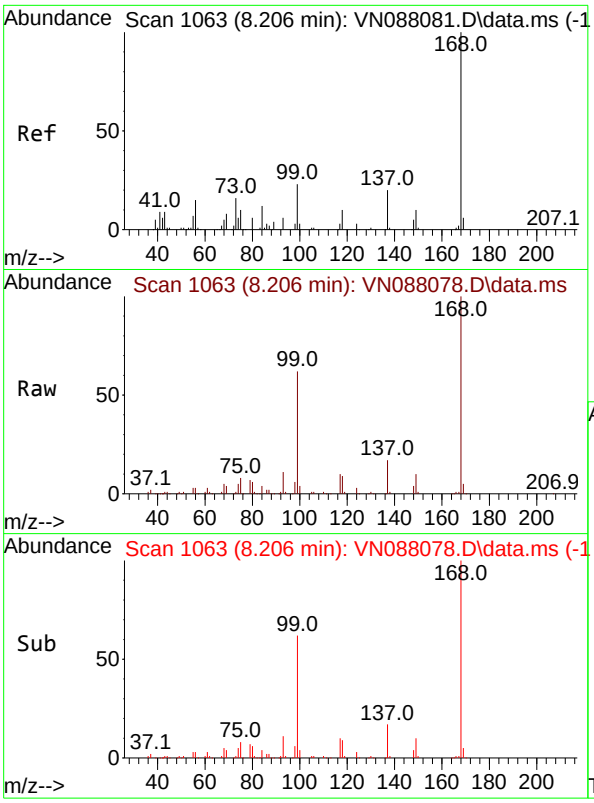
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:50:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

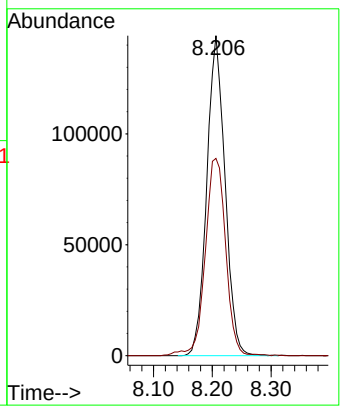




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:168 Resp: 31063

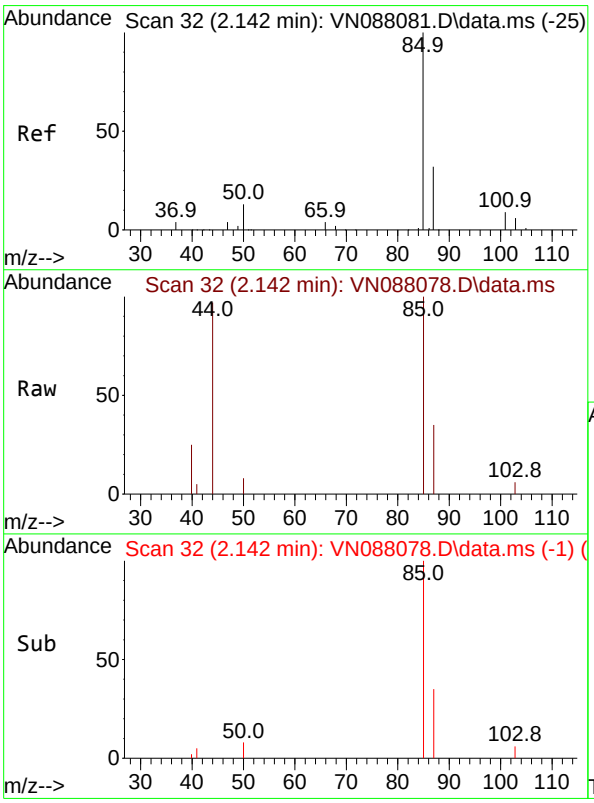
Ion	Ratio	Lower	Upper
168	100		
99	61.5	57.2	85.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

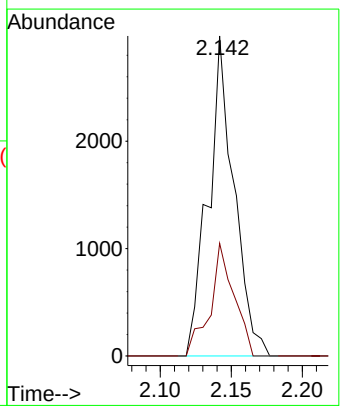
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

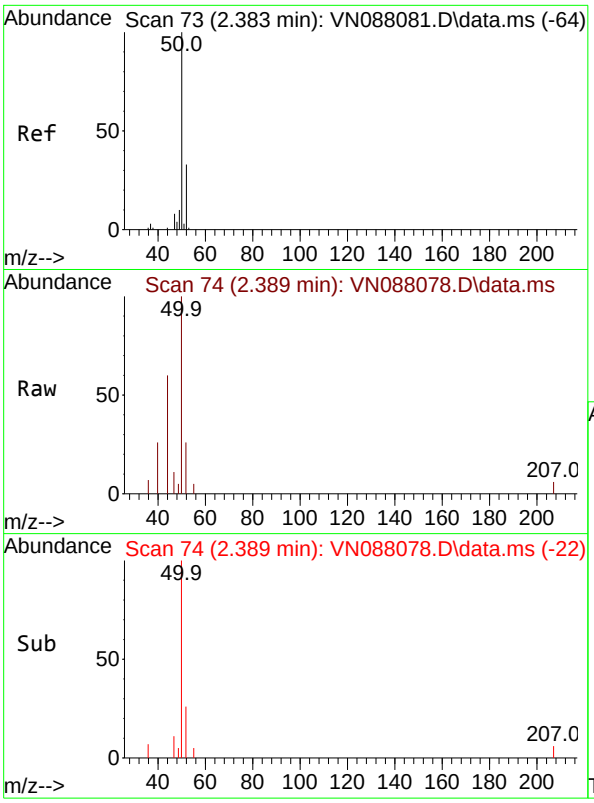


#2
Dichlorodifluoromethane
Concen: 1.074 ug/l
RT: 2.142 min Scan# 32
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 85 Resp: 3763

Ion	Ratio	Lower	Upper
85	100		
87	35.2	16.6	49.8

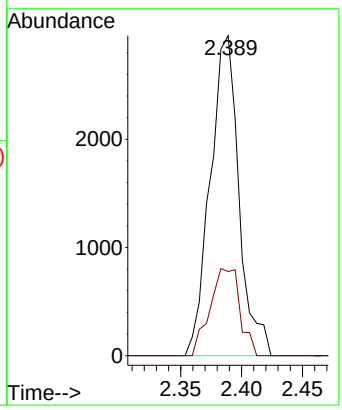




#3
Chloromethane
Concen: 1.178 ug/l
RT: 2.389 min Scan# 74
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 50 Resp: 485

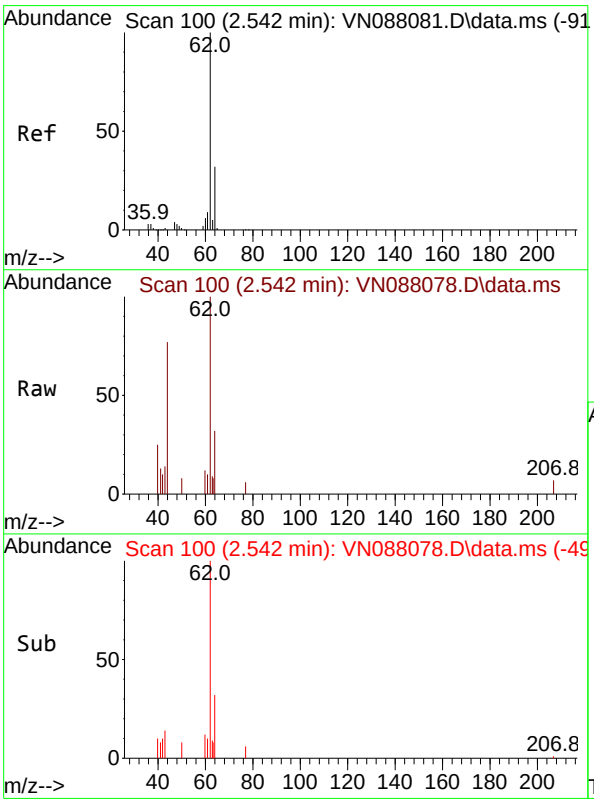
Ion	Ratio	Lower	Upper
50	100		
52	26.3	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
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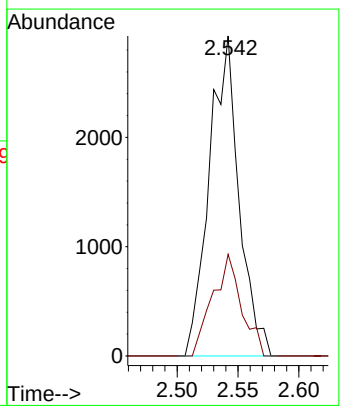
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

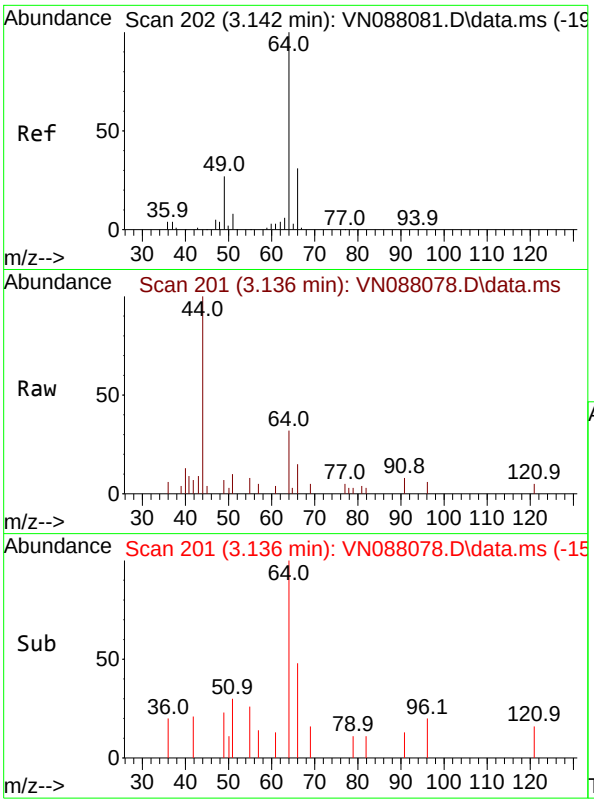


#4
Vinyl Chloride
Concen: 1.108 ug/l
RT: 2.542 min Scan# 100
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 62 Resp: 4975

Ion	Ratio	Lower	Upper
62	100		
64	31.8	24.6	37.0

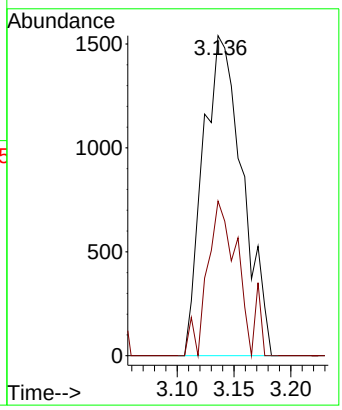




#6
Chloroethane
Concen: 1.149 ug/l
RT: 3.136 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 64 Resp: 371

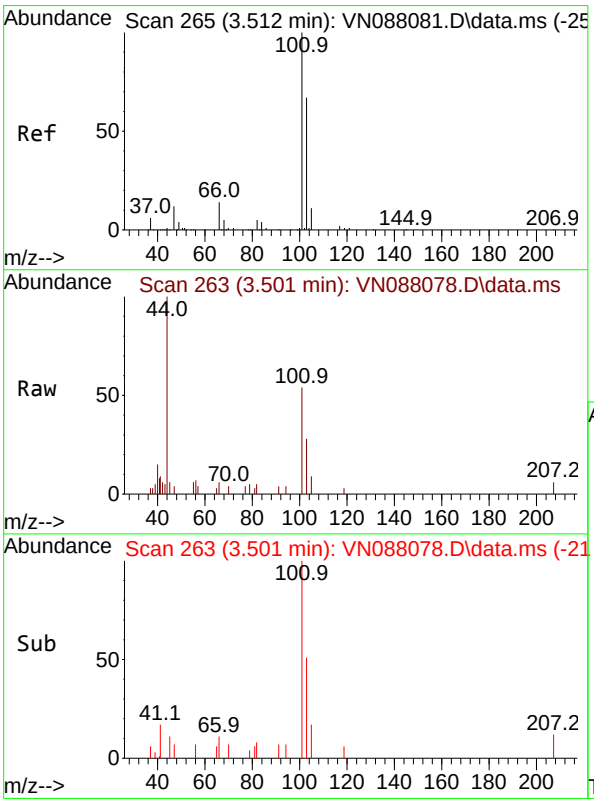
Ion	Ratio	Lower	Upper
64	100		
66	48.3	26.2	39.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

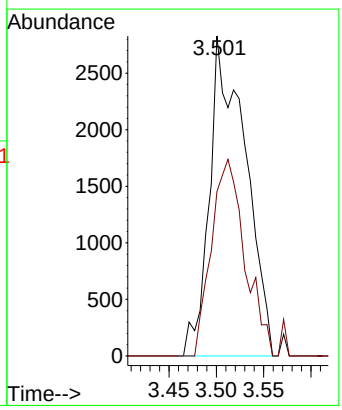
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

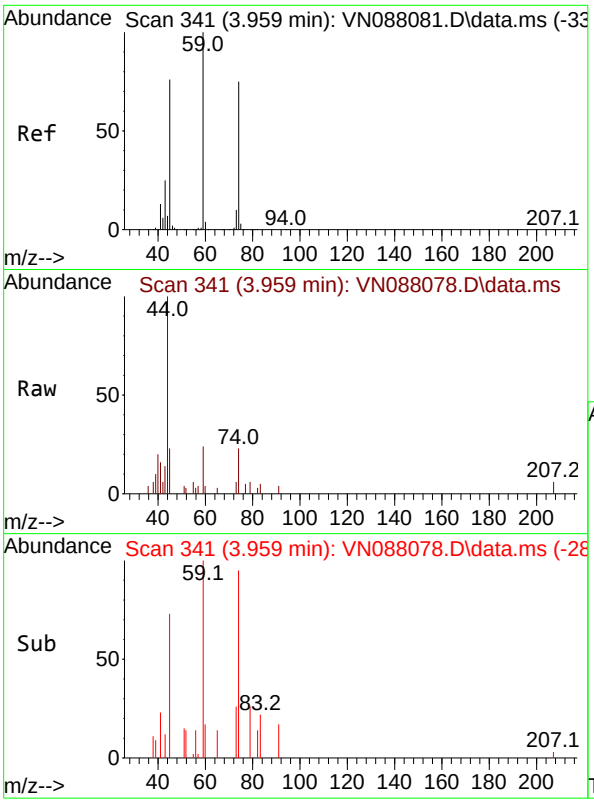


#7
Trichlorofluoromethane
Concen: 1.039 ug/l
RT: 3.501 min Scan# 263
Delta R.T. -0.012 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:101 Resp: 7446

Ion	Ratio	Lower	Upper
101	100		
103	51.4	49.4	74.0

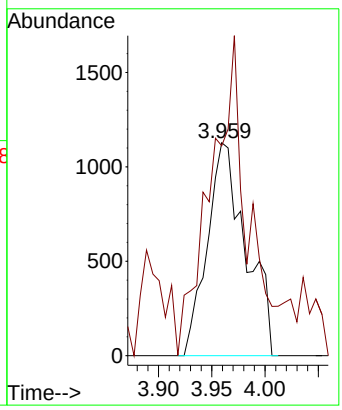




#8
Diethyl Ether
Concen: 1.065 ug/l
RT: 3.959 min Scan# 34
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 74 Resp: 283

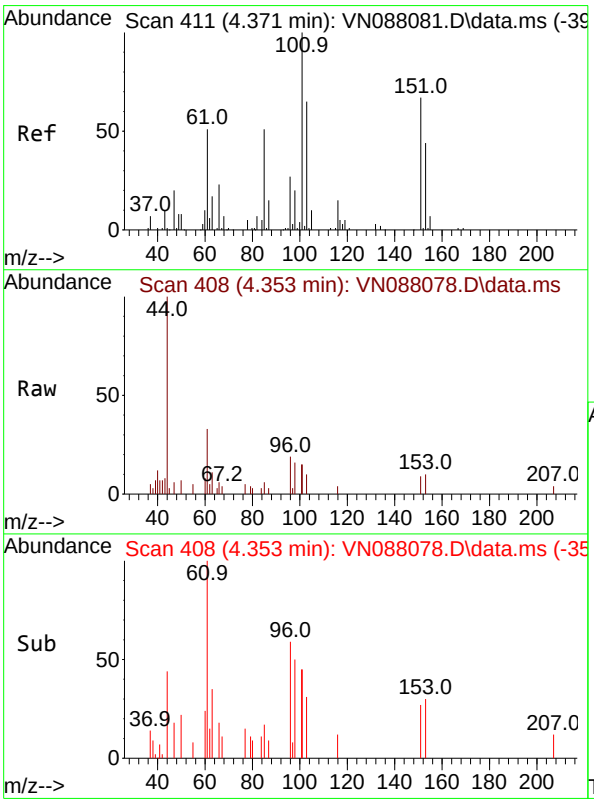
Ion	Ratio	Lower	Upper
74	100		
45	142.0	50.6	151.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

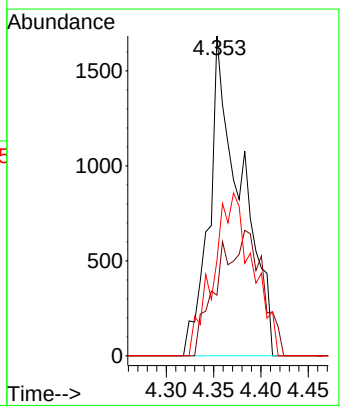
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

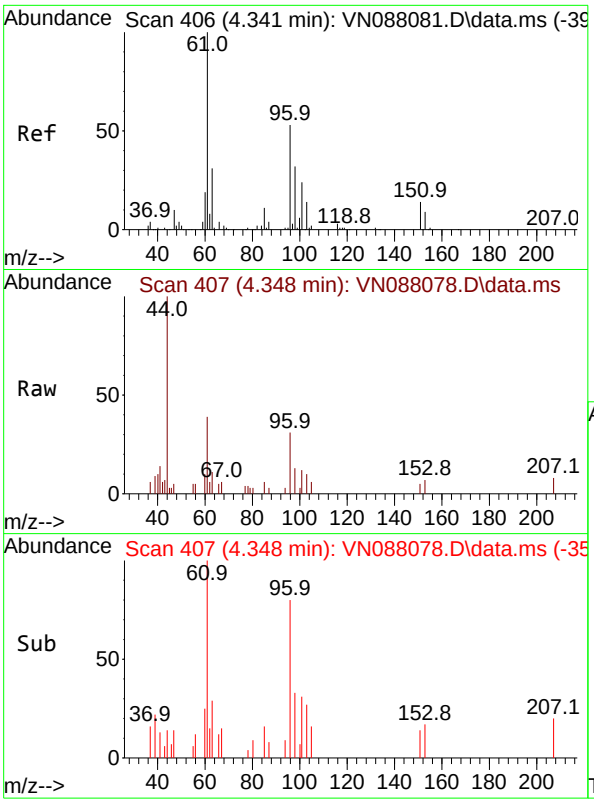


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.071 ug/l
RT: 4.353 min Scan# 408
Delta R.T. -0.012 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:101 Resp: 3959

Ion	Ratio	Lower	Upper
101	100		
85	0.0	36.6	55.0#
151	0.0	54.7	82.1#

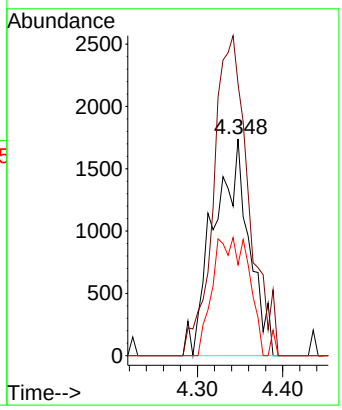




#12
1,1-Dichloroethene
Concen: 1.283 ug/l
RT: 4.348 min Scan# 4(
Delta R.T. 0.012 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 96 Resp: 500

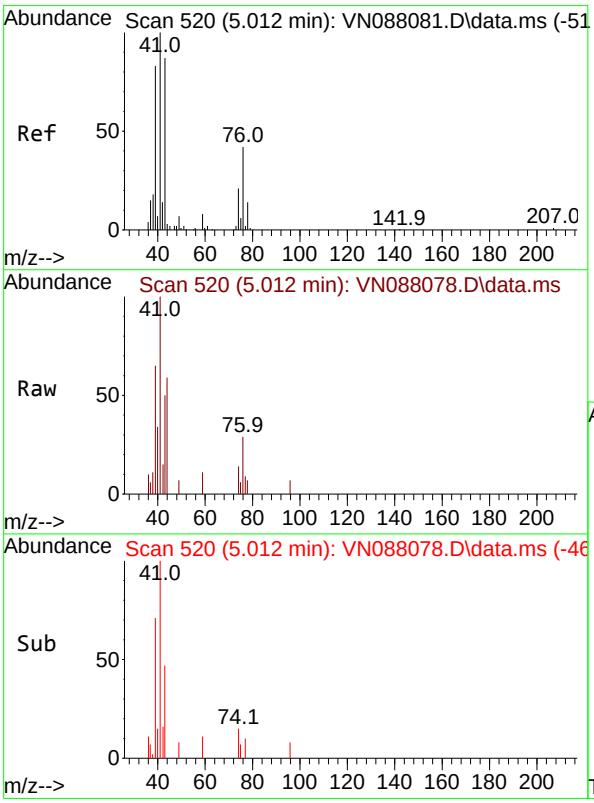
Ion	Ratio	Lower	Upper
96	100		
61	125.4	143.8	215.8#
98	42.0	52.1	78.1#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

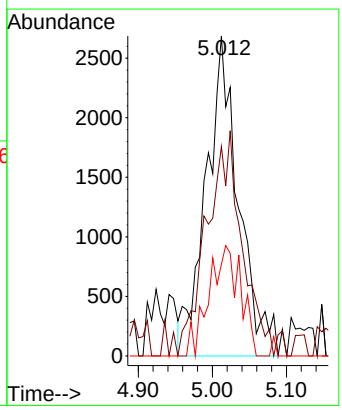
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

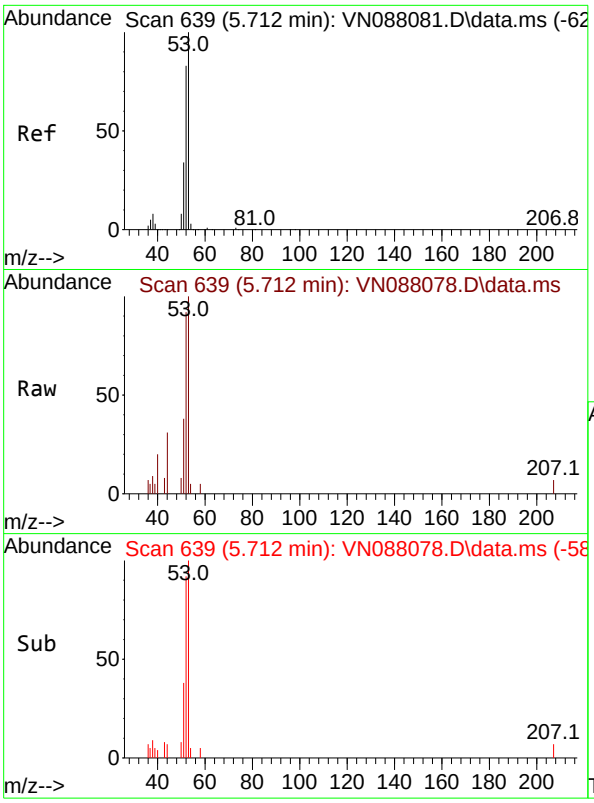


#14
Allyl chloride
Concen: 1.206 ug/l m
RT: 5.012 min Scan# 520
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 41 Resp: 8229

Ion	Ratio	Lower	Upper
41	100		
39	75.5	63.9	95.9
76	33.5	28.1	42.1

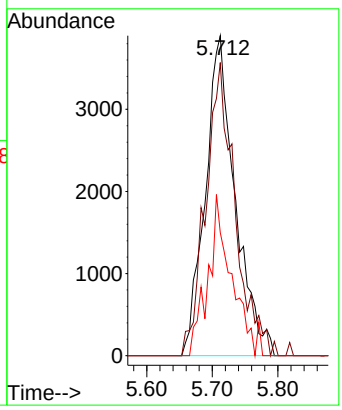




#15
Acrylonitrile
Concen: 4.900 ug/l
RT: 5.712 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 53 Resp: 1235

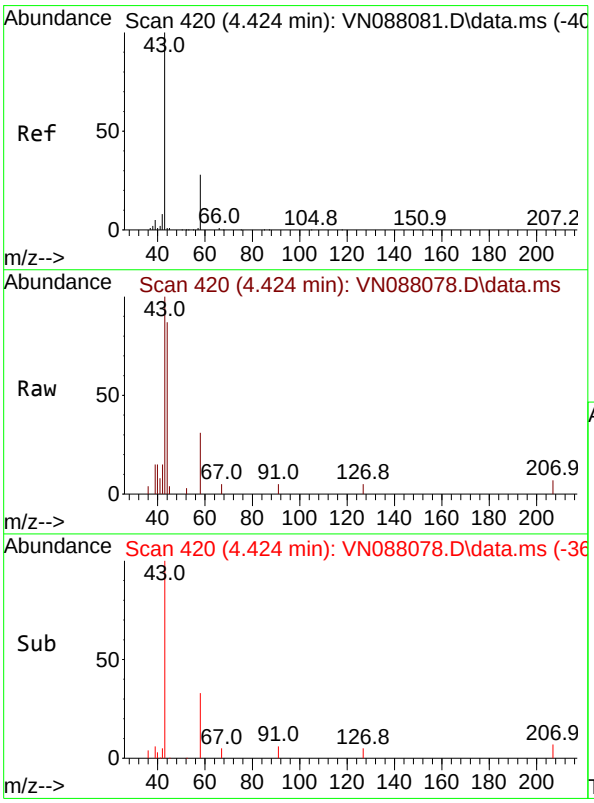
Ion	Ratio	Lower	Upper
53	100		
52	90.1	67.6	101.4
51	38.6	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

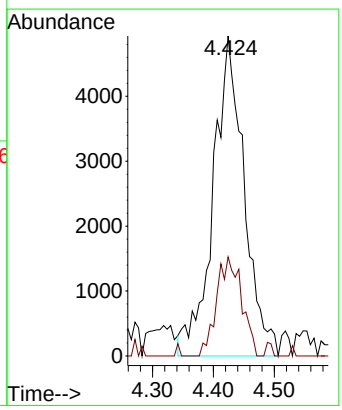
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

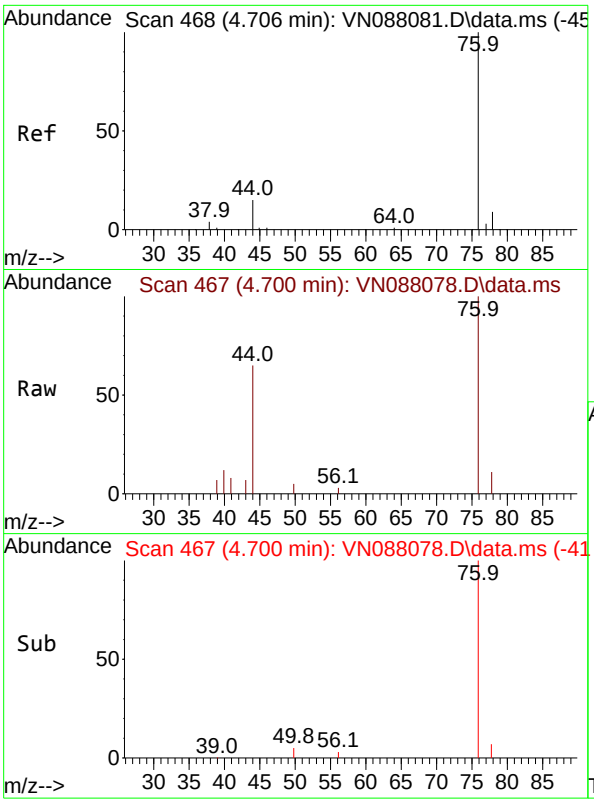


#16
Acetone
Concen: 6.476 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 43 Resp: 17476

Ion	Ratio	Lower	Upper
43	100		
58	31.0	22.6	33.8

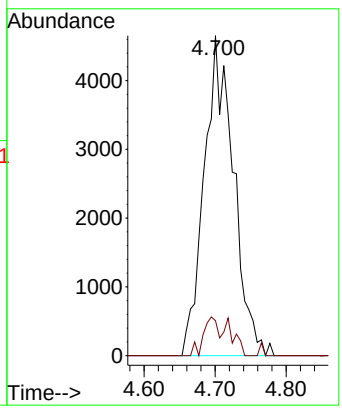




#17
Carbon Disulfide
Concen: 1.122 ug/l
RT: 4.700 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 76 Resp: 1331

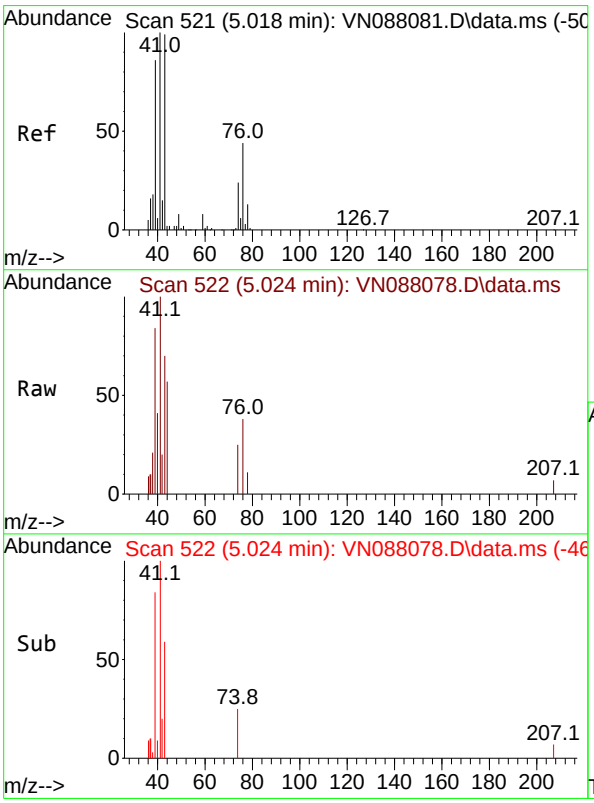
Ion	Ratio	Lower	Upper
76	100		
78	10.9	7.6	11.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

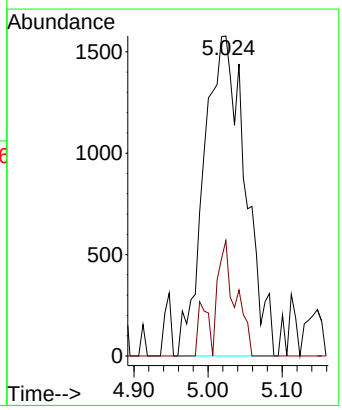
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

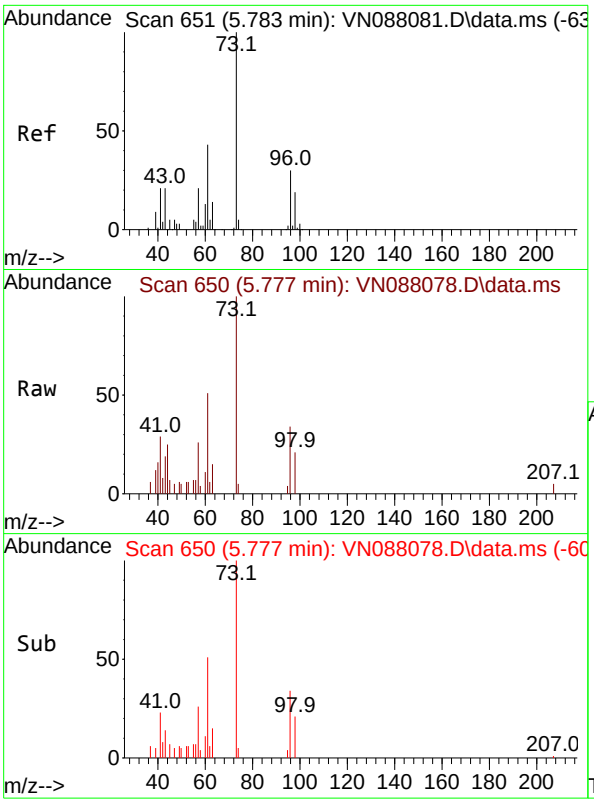


#18
Methyl Acetate
Concen: 1.104 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 43 Resp: 6099

Ion	Ratio	Lower	Upper
43	100		
74	15.3	17.6	26.4#

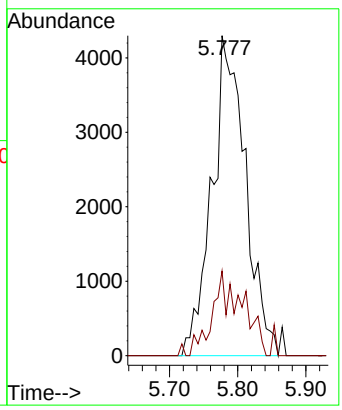




#19
Methyl tert-butyl Ether
Concen: 1.021 ug/l
RT: 5.777 min Scan# 6
Delta R.T. -0.012 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 73 Resp: 1463

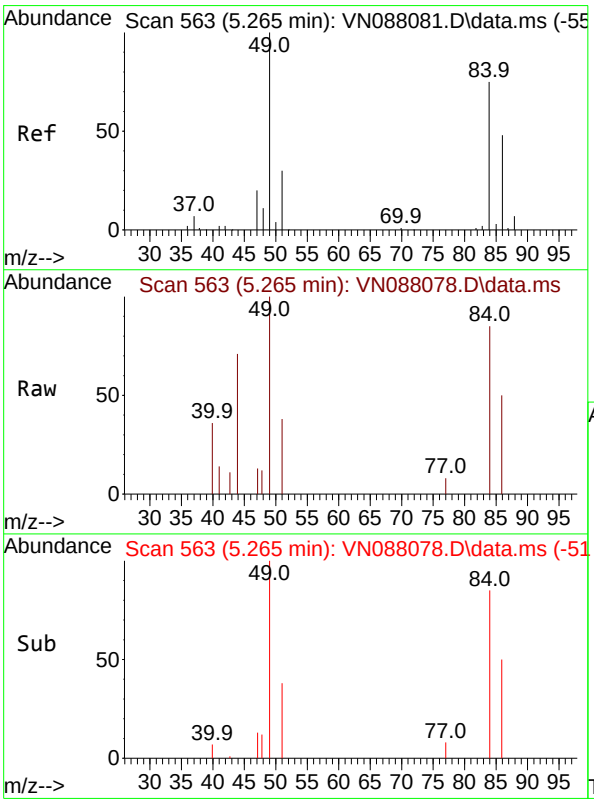
Ion	Ratio	Lower	Upper
73	100		
57	26.4	18.4	27.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

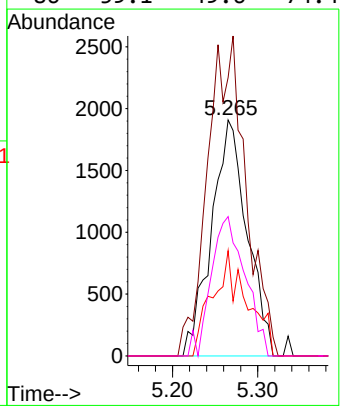
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

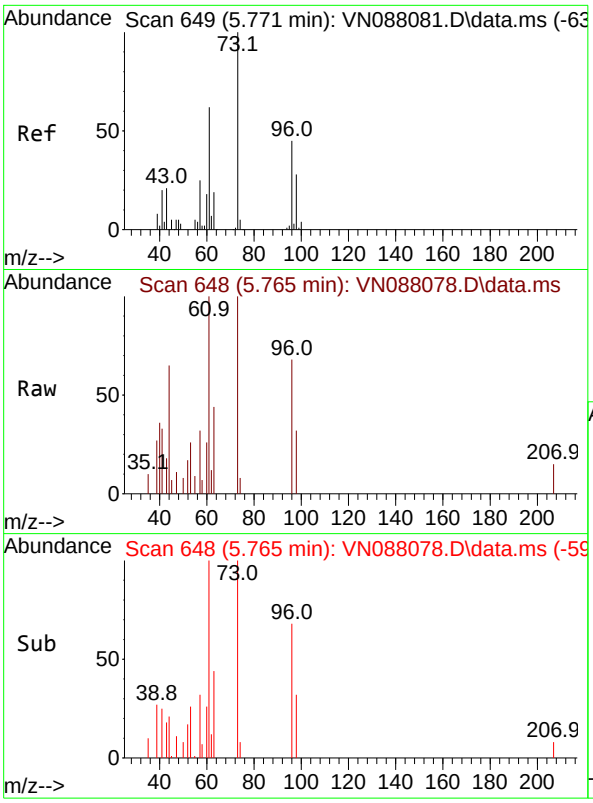


#20
Methylene Chloride
Concen: 2.075 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 84 Resp: 5554

Ion	Ratio	Lower	Upper
84	100		
49	118.0	103.4	155.2
51	44.6	33.8	50.8
86	59.1	49.6	74.4

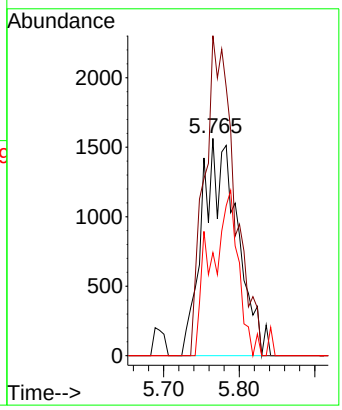




#21
trans-1,2-Dichloroethene
Concen: 1.180 ug/l m
RT: 5.765 min Scan# 64
Delta R.T. -0.012 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 96 Resp: 509

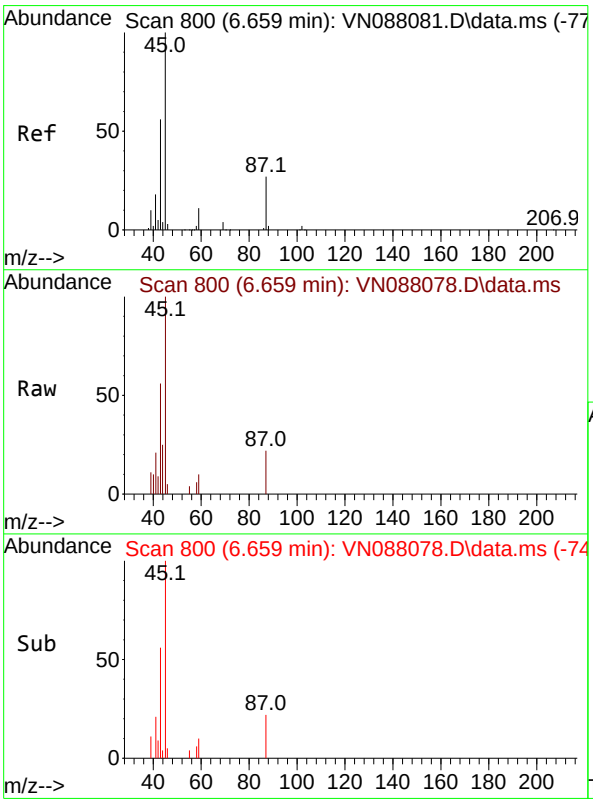
Ion	Ratio	Lower	Upper
96	100		
61	147.3	118.0	177.0
98	47.4	50.0	75.0#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

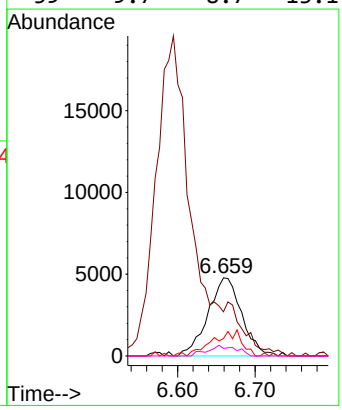
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

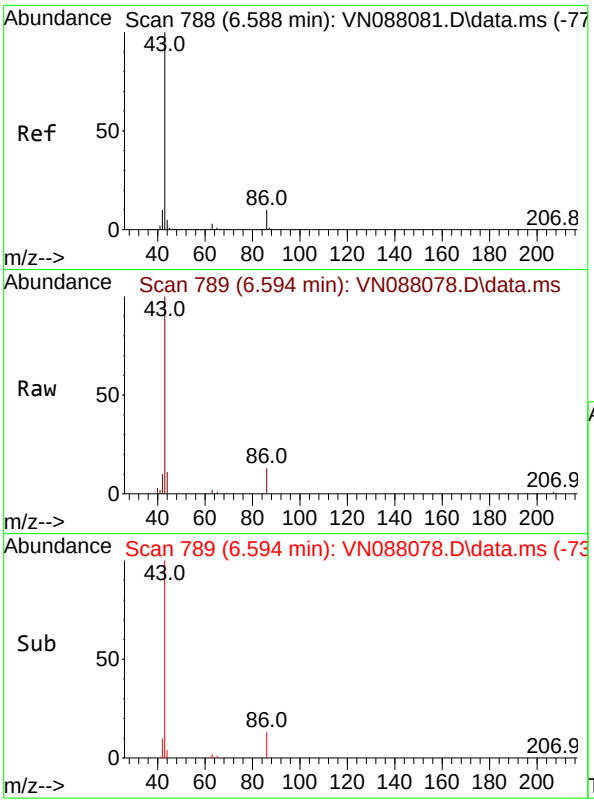


#22
Diisopropyl ether
Concen: 1.004 ug/l
RT: 6.659 min Scan# 800
Delta R.T. 0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 45 Resp: 14446

Ion	Ratio	Lower	Upper
45	100		
43	48.9	47.7	71.5
87	22.3	21.4	32.0
59	9.7	8.7	13.1

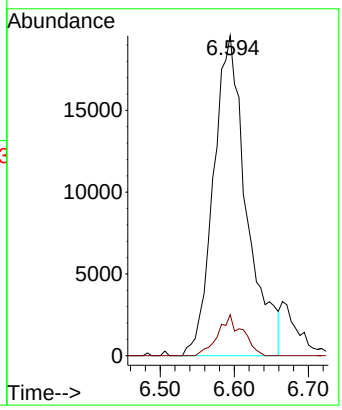




#23
Vinyl Acetate
Concen: 4.692 ug/l
RT: 6.594 min Scan# 7
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 43 Resp: 6082

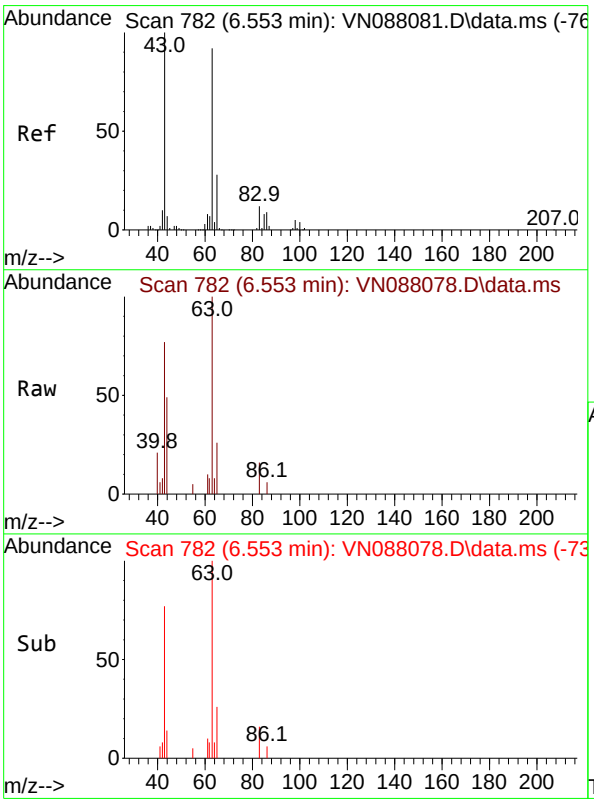
Ion	Ratio	Lower	Upper
43	100		
86	12.8	8.2	12.4#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

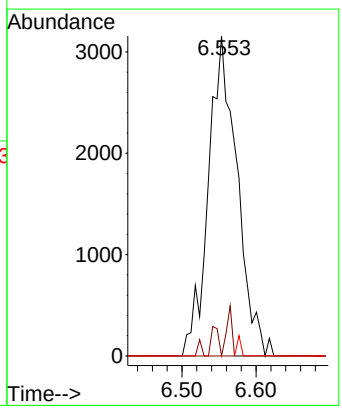
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

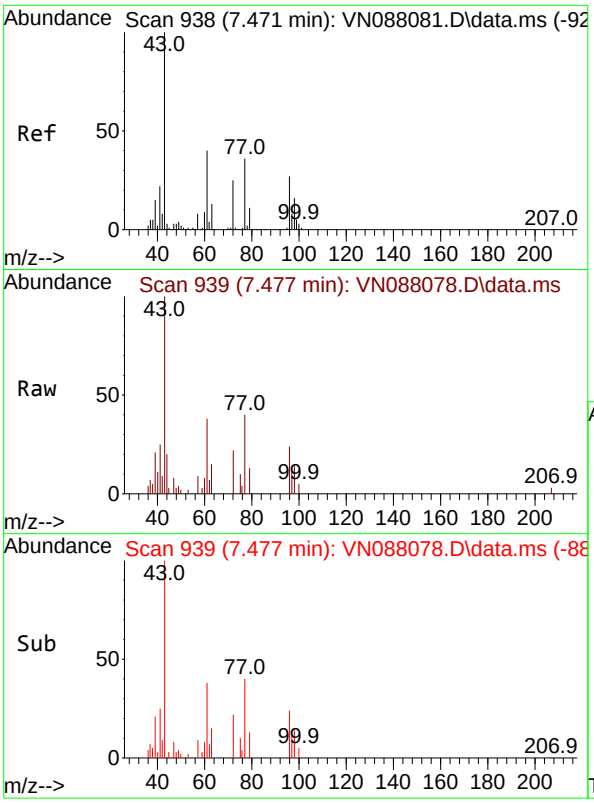


#24
1,1-Dichloroethane
Concen: 1.068 ug/l
RT: 6.553 min Scan# 782
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 63 Resp: 8517

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.8	11.4#
100	0.0	2.0	6.0#

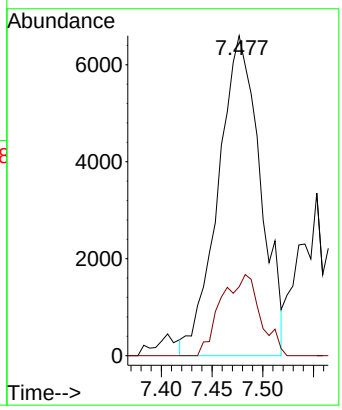




#25
2-Butanone
Concen: 5.426 ug/l m
RT: 7.477 min Scan# 9
Delta R.T. 0.012 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 43 Resp: 1909

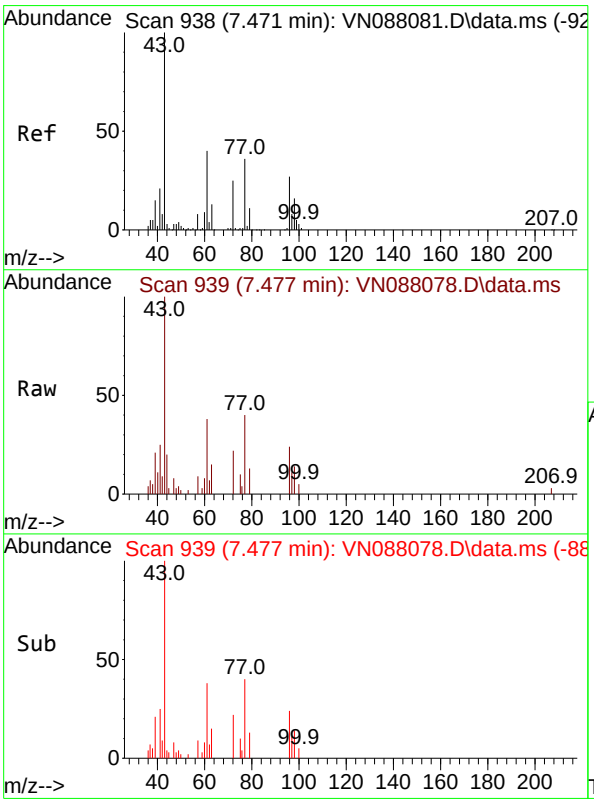
Ion	Ratio	Lower	Upper
43	100		
72	21.5	19.9	29.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

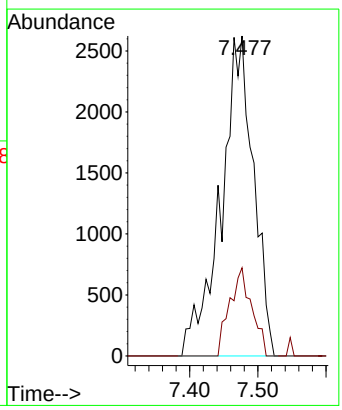
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

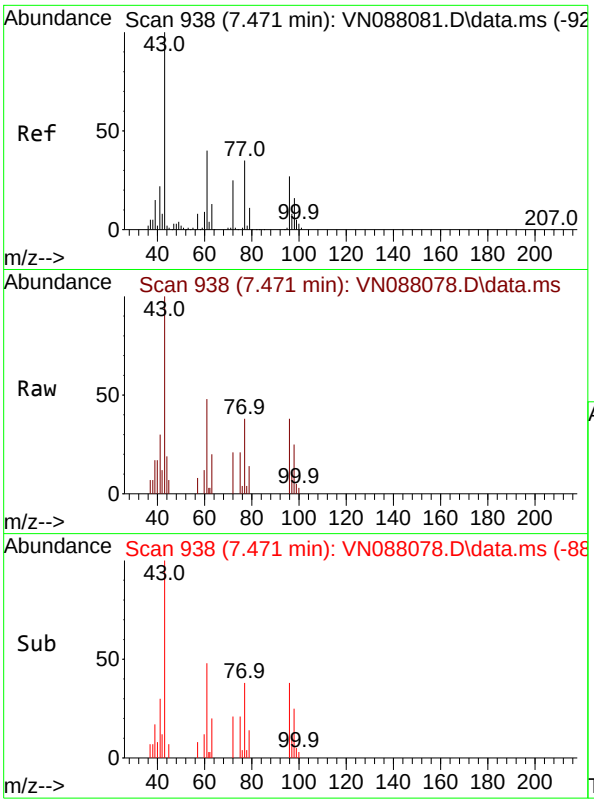


#26
2,2-Dichloropropane
Concen: 1.203 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 77 Resp: 8718

Ion	Ratio	Lower	Upper
77	100		
97	18.6	10.9	32.7

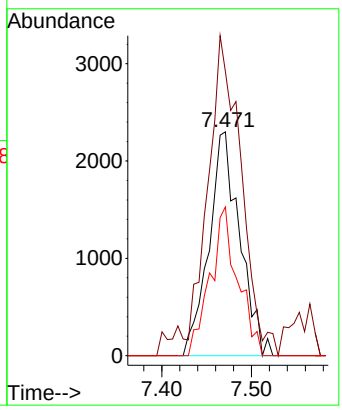




#27
cis-1,2-Dichloroethene
Concen: 1.113 ug/l
RT: 7.471 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 96 Resp: 549

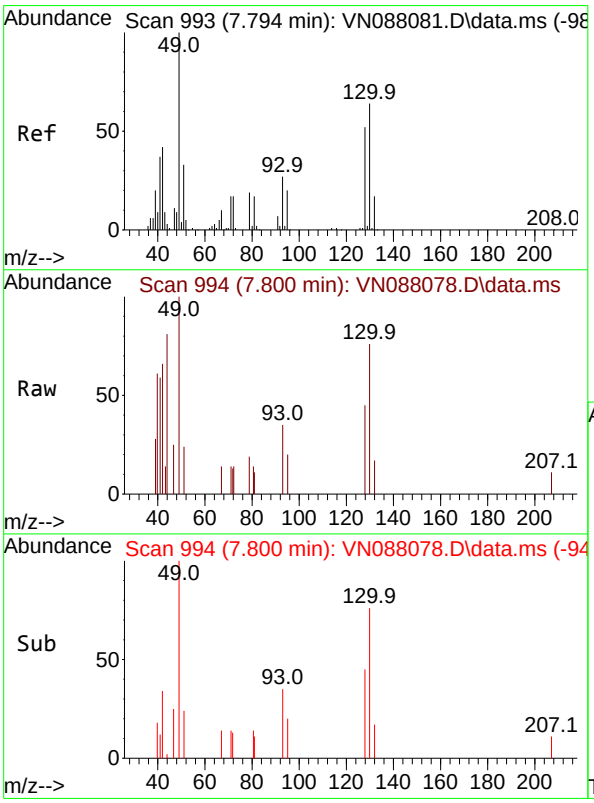
Ion	Ratio	Lower	Upper
96	100		
61	160.3	0.0	301.8
98	59.4	0.0	126.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

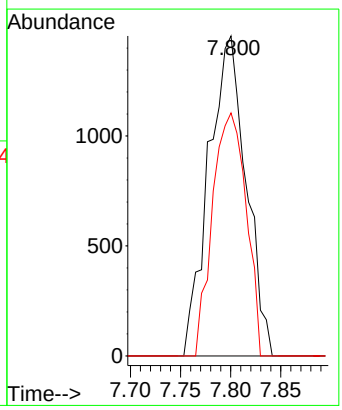
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

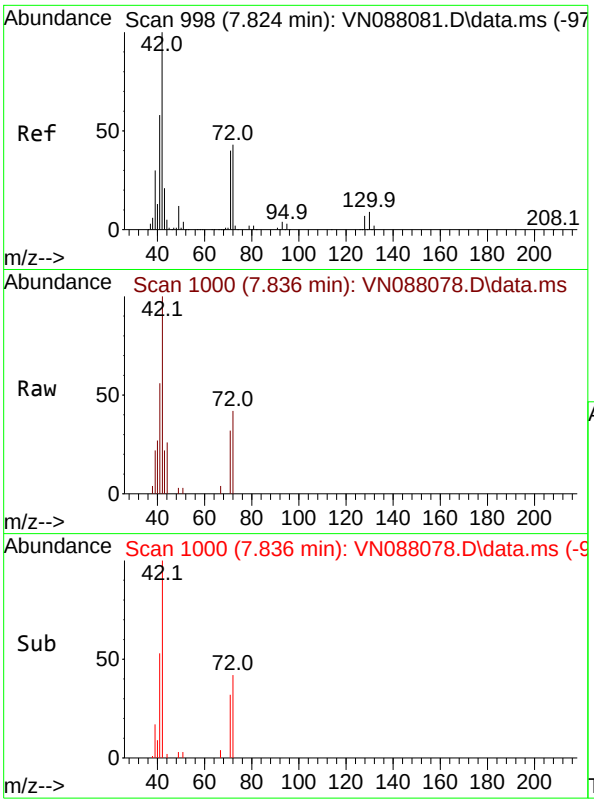


#28
Bromochloromethane
Concen: 1.002 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 49 Resp: 3776

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.0
130	68.1	53.1	79.7





#29
Tetrahydrofuran
Concen: 5.529 ug/l
RT: 7.836 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

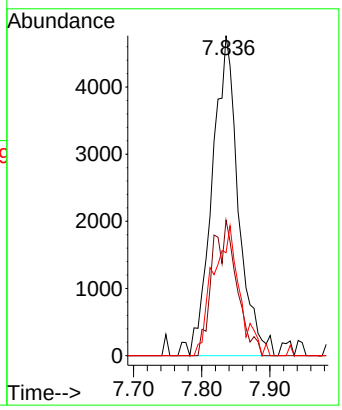
Tgt Ion: 42 Resp: 1281

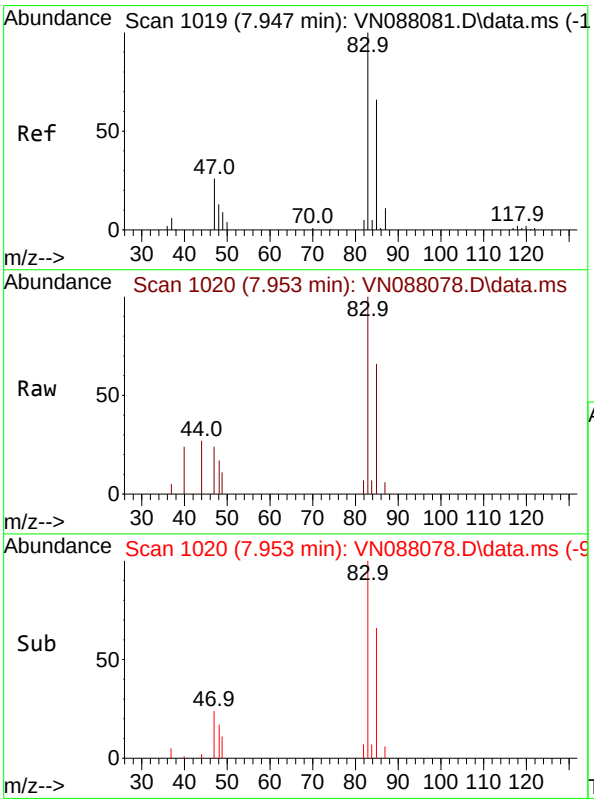
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5
71	41.0	31.9	47.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

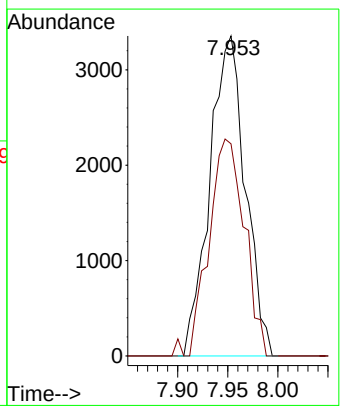


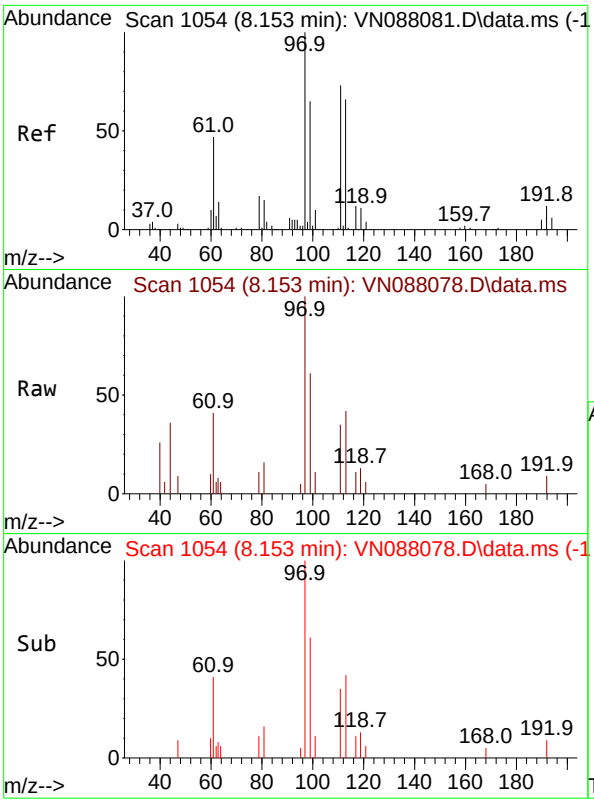


#30
Chloroform
Concen: 1.040 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 83 Resp: 8286

Ion	Ratio	Lower	Upper
83	100		
85	66.3	50.7	76.1

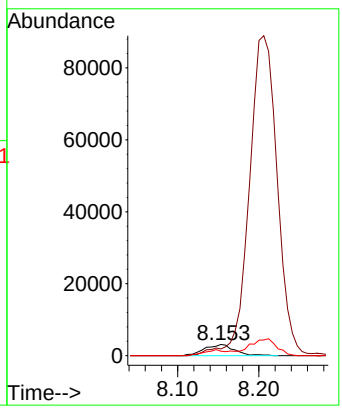




#32
1,1,1-Trichloroethane
Concen: 1.133 ug/l
RT: 8.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 97 Resp: 803

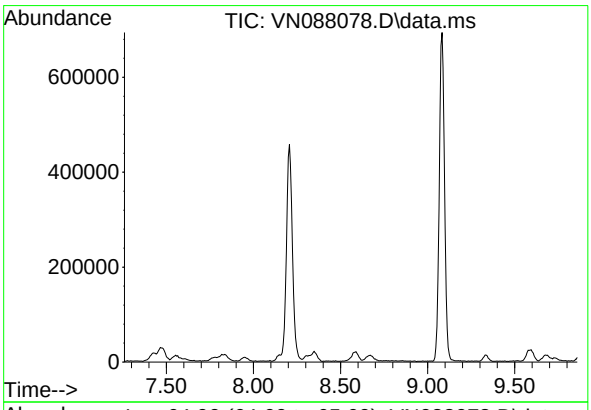
Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.2	78.2#
61	34.7	41.2	61.8#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

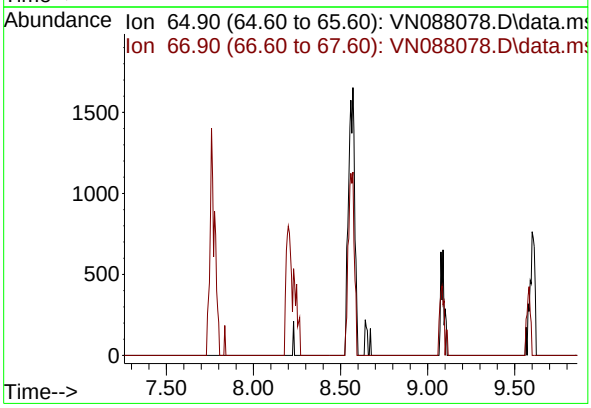


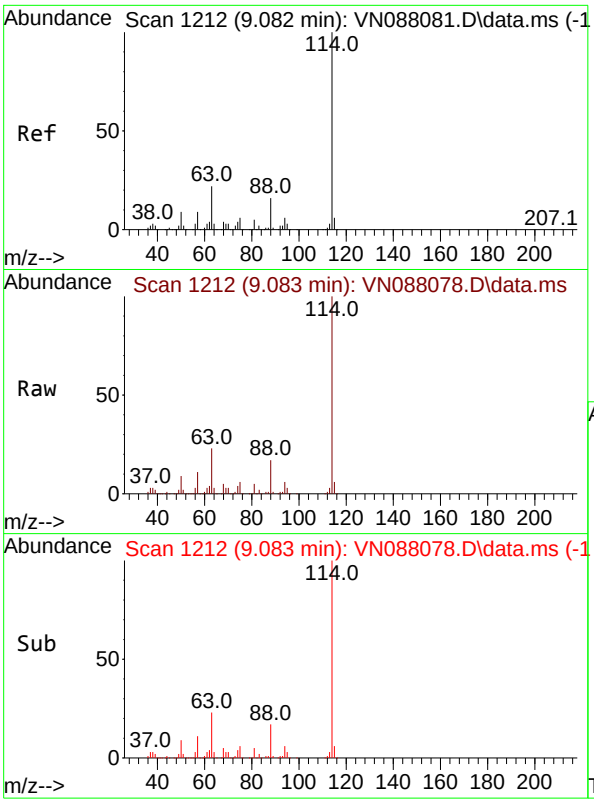
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 8.56 min

Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	50.0





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

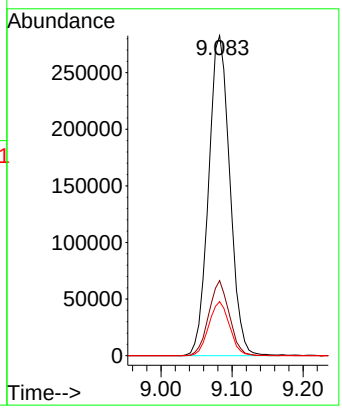
Tgt Ion:114 Resp: 58622

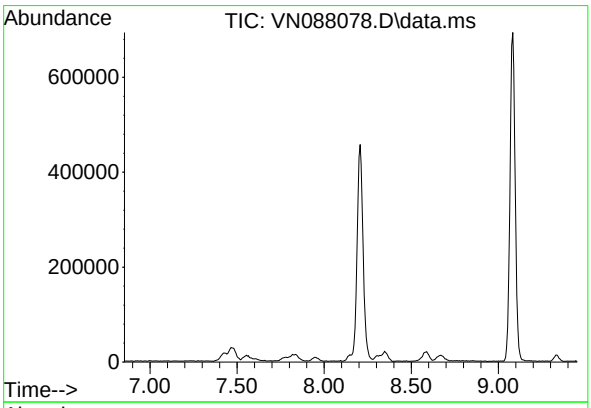
Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	45.2
88	16.9	0.0	33.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



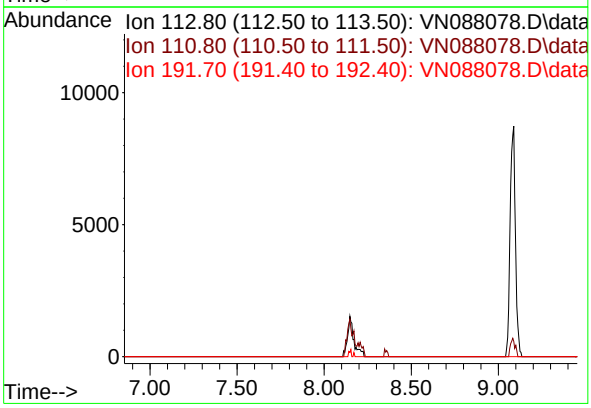


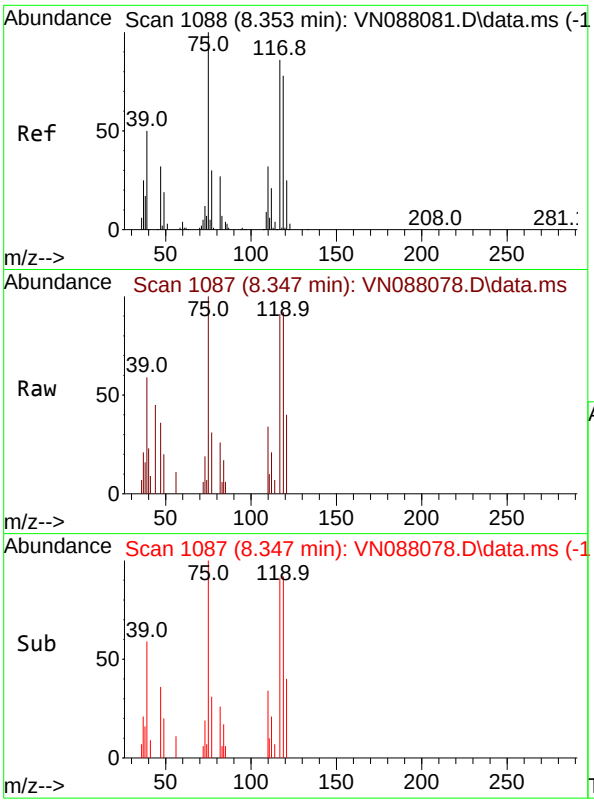
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 8.15 min

Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	103.5
192	16.0

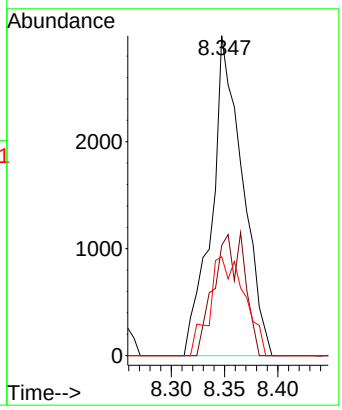




#36
1,1-Dichloropropene
Concen: 1.050 ug/l
RT: 8.347 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 75 Resp: 603

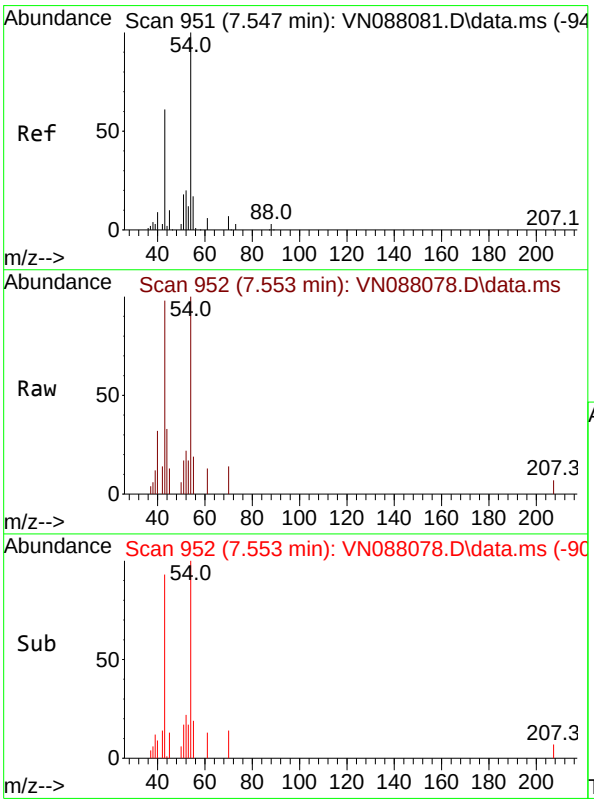
Ion	Ratio	Lower	Upper
75	100		
110	37.6	15.9	47.6
77	35.3	24.4	36.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

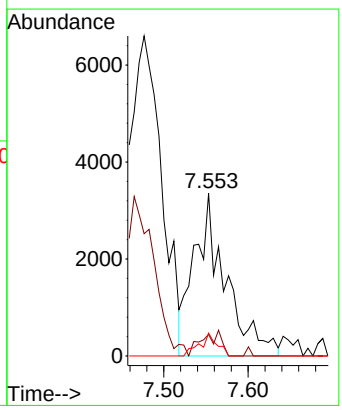
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

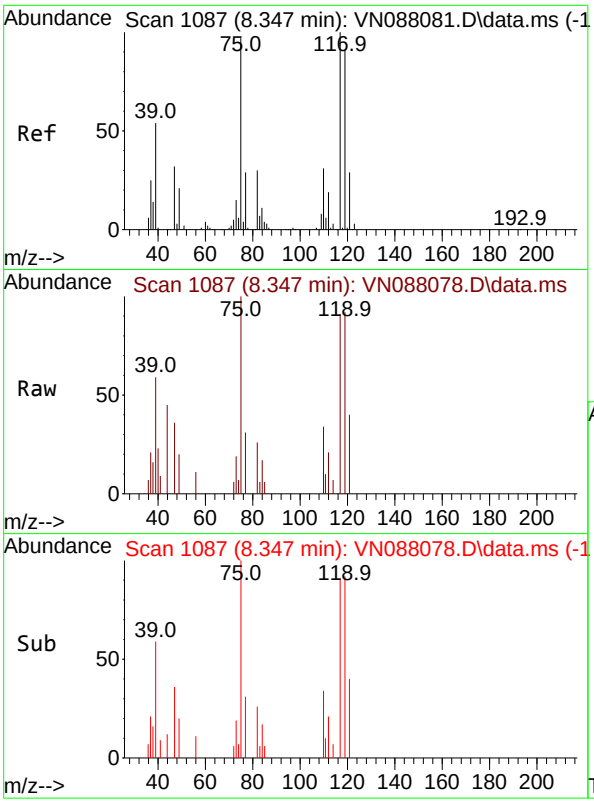


#37
Ethyl Acetate
Concen: 1.177 ug/l m
RT: 7.553 min Scan# 952
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 43 Resp: 8700

Ion	Ratio	Lower	Upper
43	100		
61	9.6	9.3	13.9
70	7.8	7.0	10.6

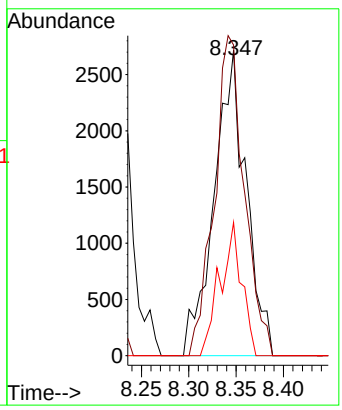




#38
Carbon Tetrachloride
Concen: 1.074 ug/l
RT: 8.347 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:117 Resp: 638

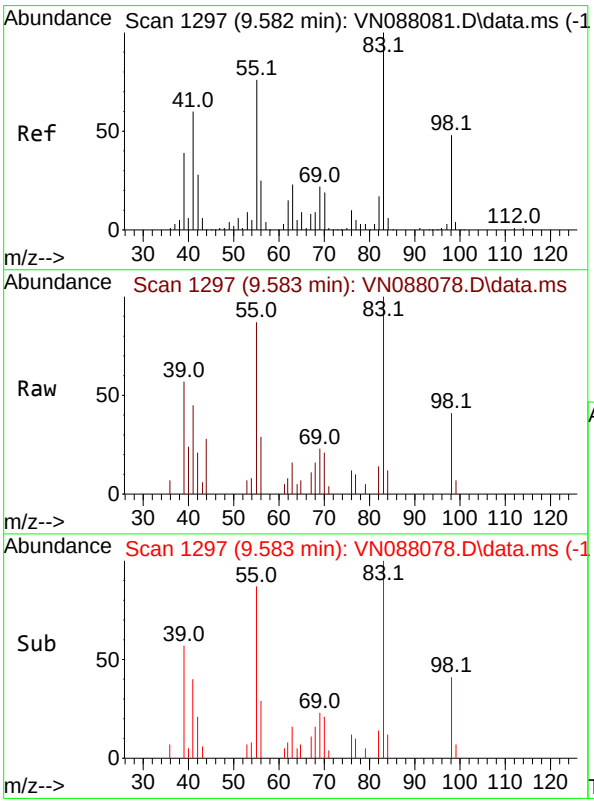
Ion	Ratio	Lower	Upper
117	100		
119	101.8	79.0	118.6
121	43.7	25.0	37.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

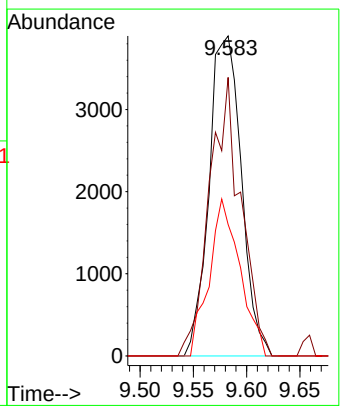
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

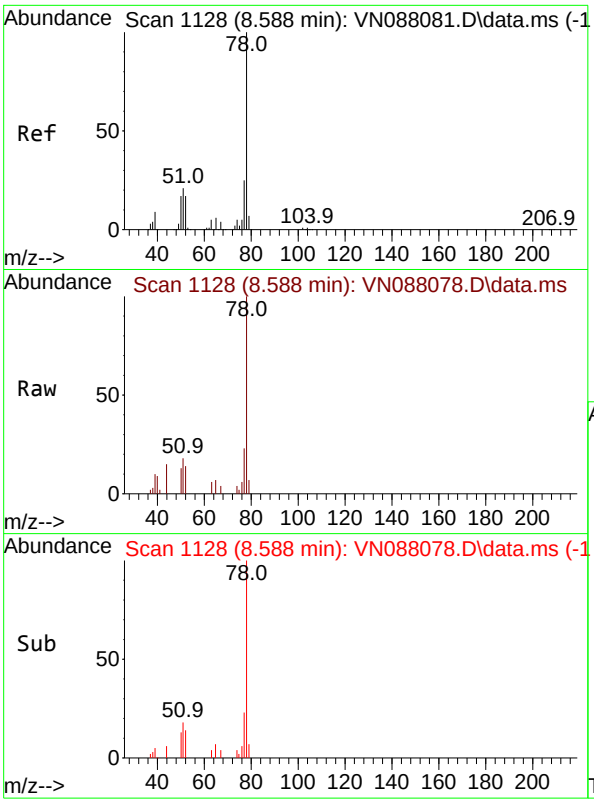


#39
Methylcyclohexane
Concen: 1.112 ug/l
RT: 9.583 min Scan# 1297
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 83 Resp: 8221

Ion	Ratio	Lower	Upper
83	100		
55	87.1	64.6	96.8
98	41.1	38.4	57.6

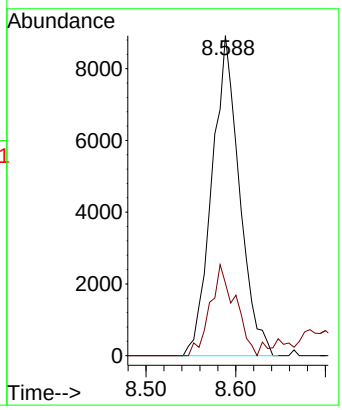




#40
Benzene
Concen: 1.085 ug/l
RT: 8.588 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 78 Resp: 1900

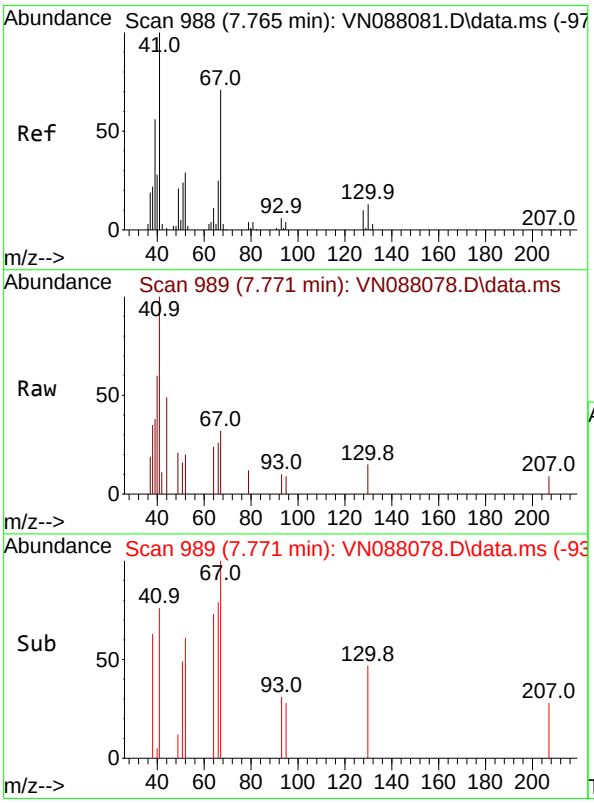
Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.7	29.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

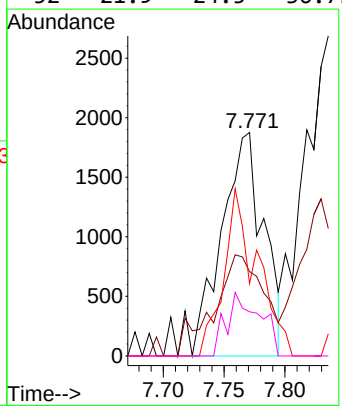
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

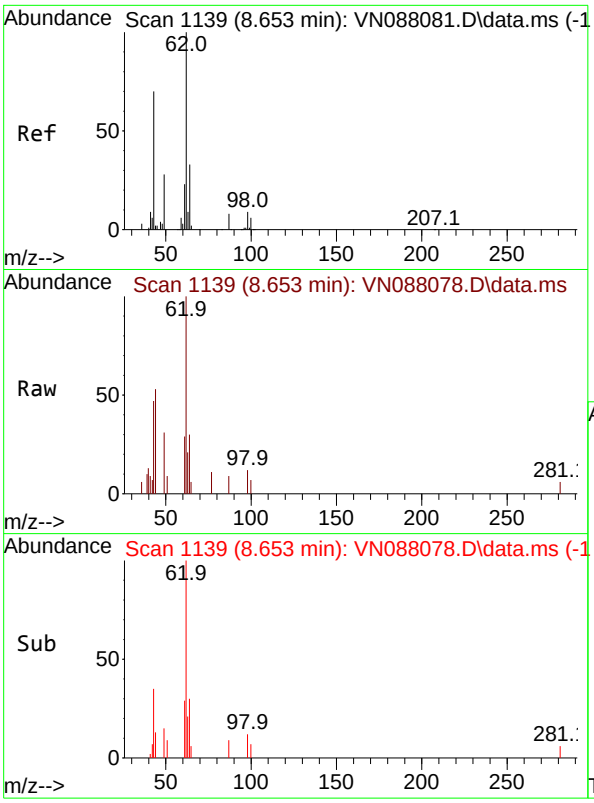


#41
Methacrylonitrile
Concen: 1.182 ug/l
RT: 7.771 min Scan# 989
Delta R.T. 0.012 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 41 Resp: 4616

Ion	Ratio	Lower	Upper
41	100		
39	52.6	45.4	68.0
67	57.8	55.3	82.9
52	21.9	24.5	36.7#

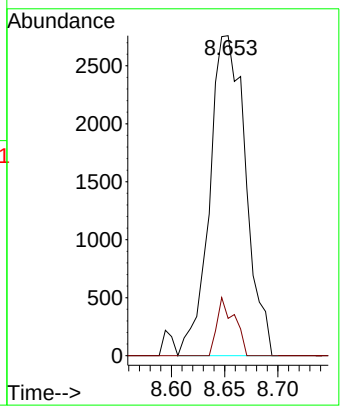




#42
1,2-Dichloroethane
Concen: 1.041 ug/l
RT: 8.653 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 62 Resp: 647

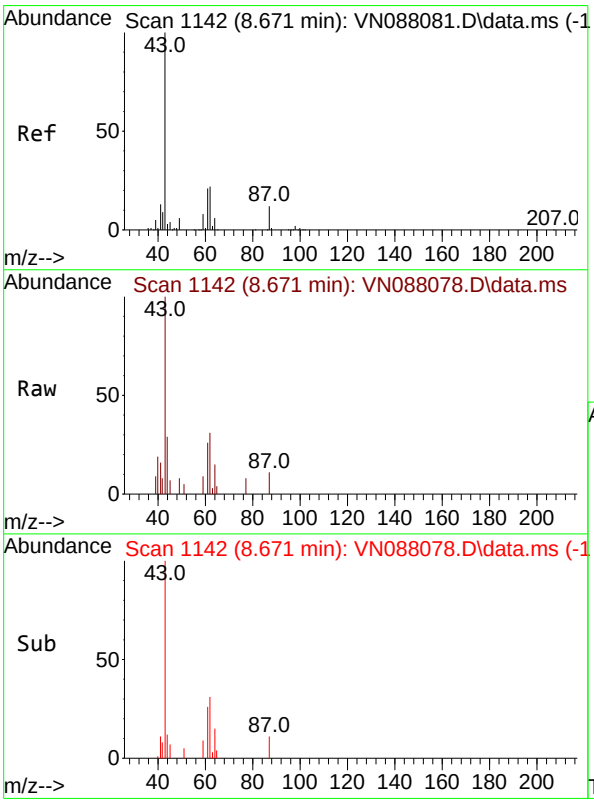
Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	17.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

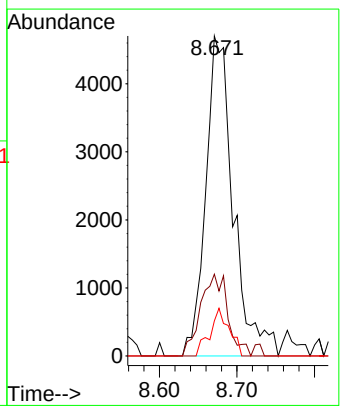
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

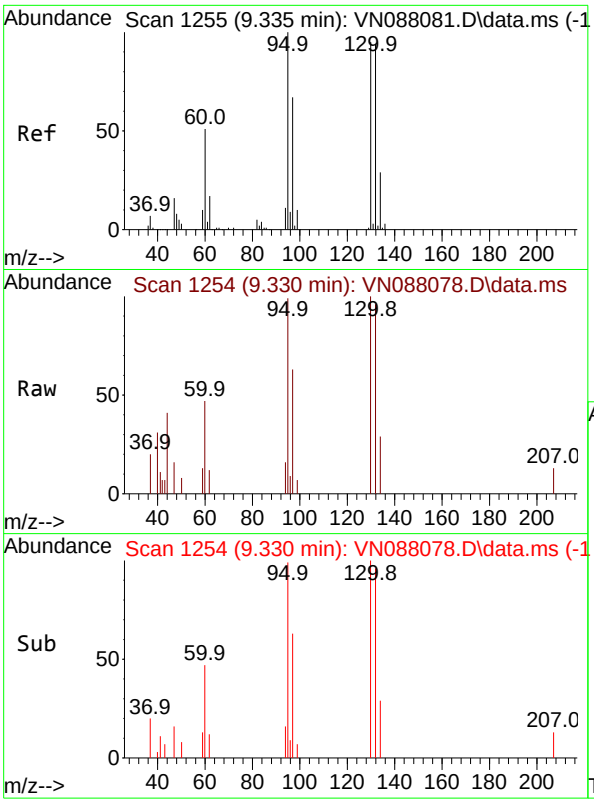


#43
Isopropyl Acetate
Concen: 1.019 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 43 Resp: 11616

Ion	Ratio	Lower	Upper
43	100		
61	25.1	18.8	28.2
87	10.4	9.6	14.4

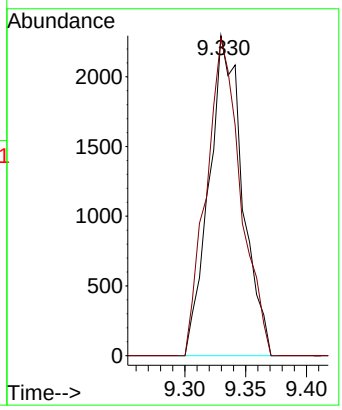




#44
Trichloroethene
Concen: 1.073 ug/l
RT: 9.330 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:130 Resp: 439

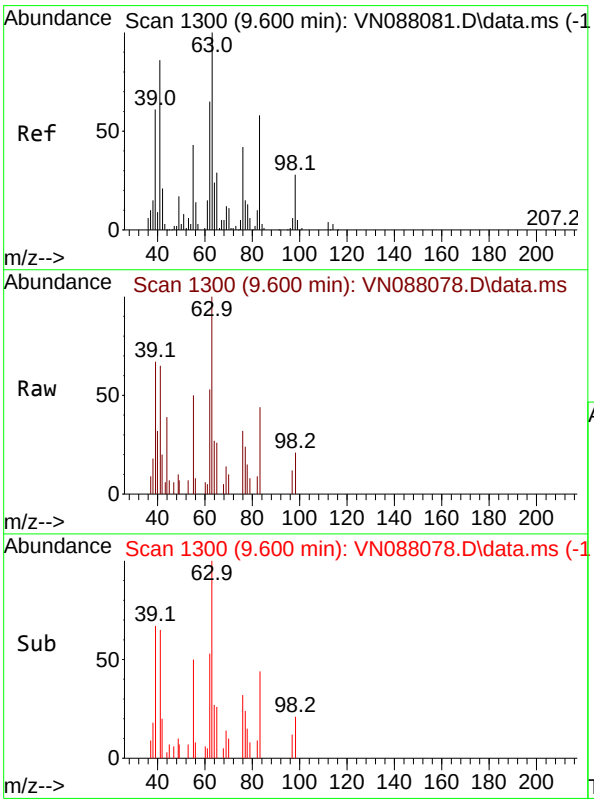
Ion	Ratio	Lower	Upper
130	100		
95	99.2	0.0	212.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

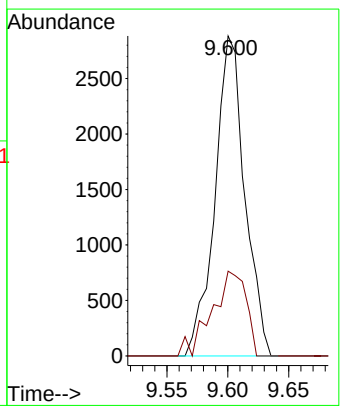
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

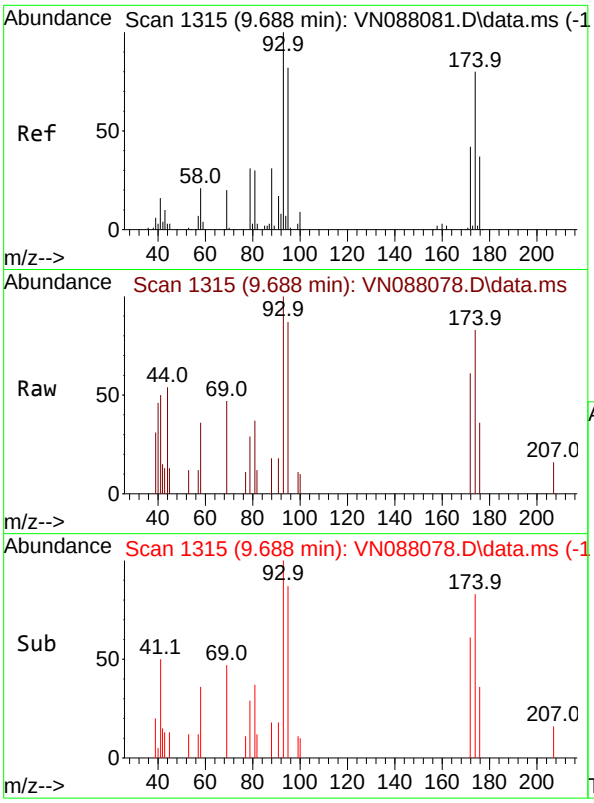


#45
1,2-Dichloropropane
Concen: 1.114 ug/l
RT: 9.600 min Scan# 1300
Delta R.T. 0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 63 Resp: 4927

Ion	Ratio	Lower	Upper
63	100		
65	26.5	25.0	37.4





#46
Dibromomethane
Concen: 1.022 ug/l
RT: 9.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

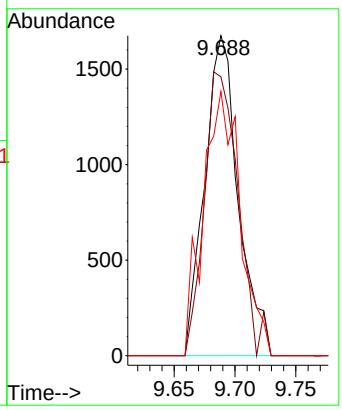
Tgt Ion: 93 Resp: 322

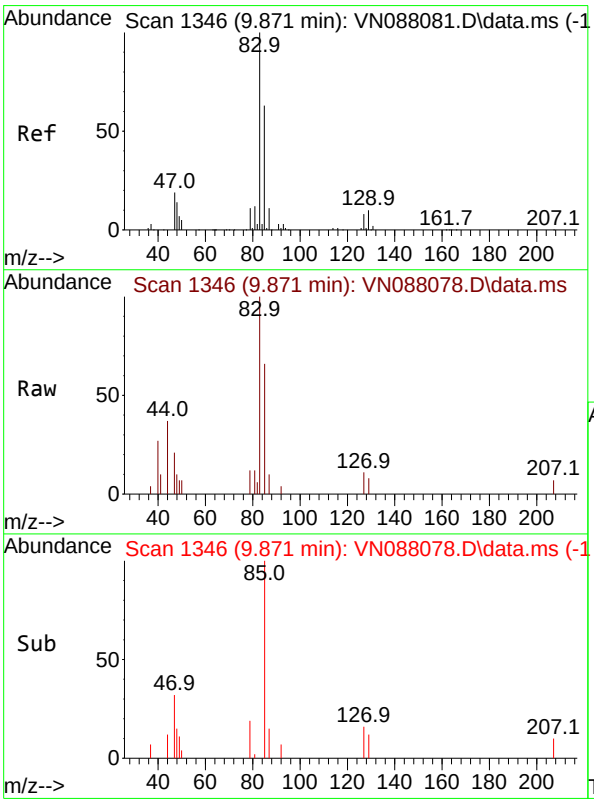
Ion	Ratio	Lower	Upper
93	100		
95	89.3	66.2	99.4
174	90.8	63.4	95.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

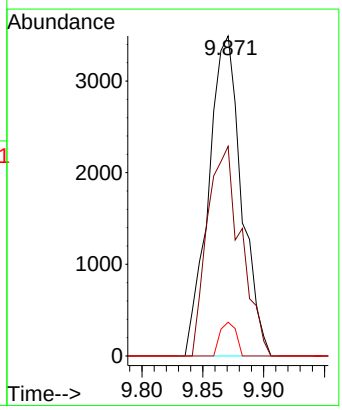


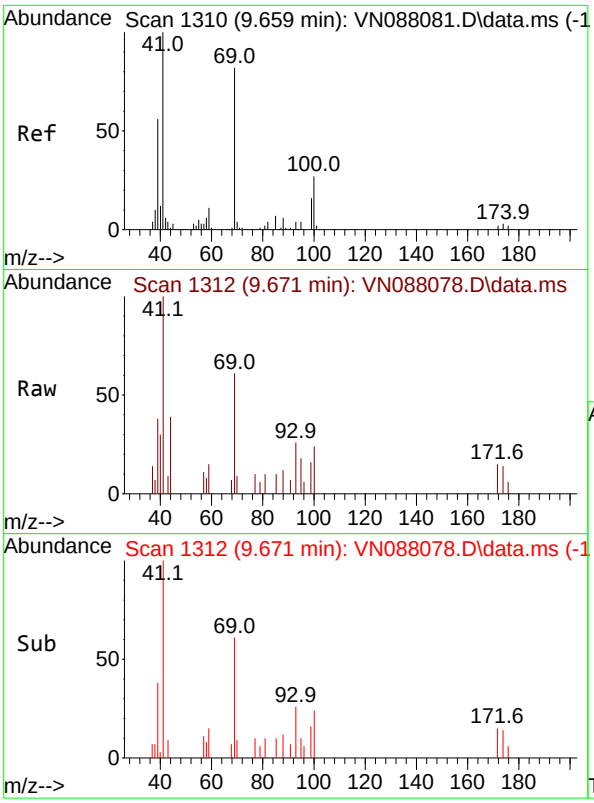


#47
Bromodichloromethane
Concen: 1.042 ug/l
RT: 9.871 min Scan# 1346
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 83 Resp: 6578

Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.5	78.7
127	10.6	5.8	8.6#

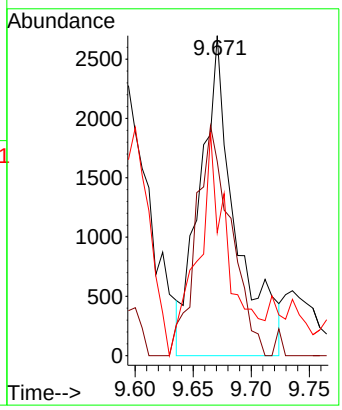




#48
Methyl methacrylate
Concen: 1.057 ug/l m
RT: 9.671 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 41 Resp: 572

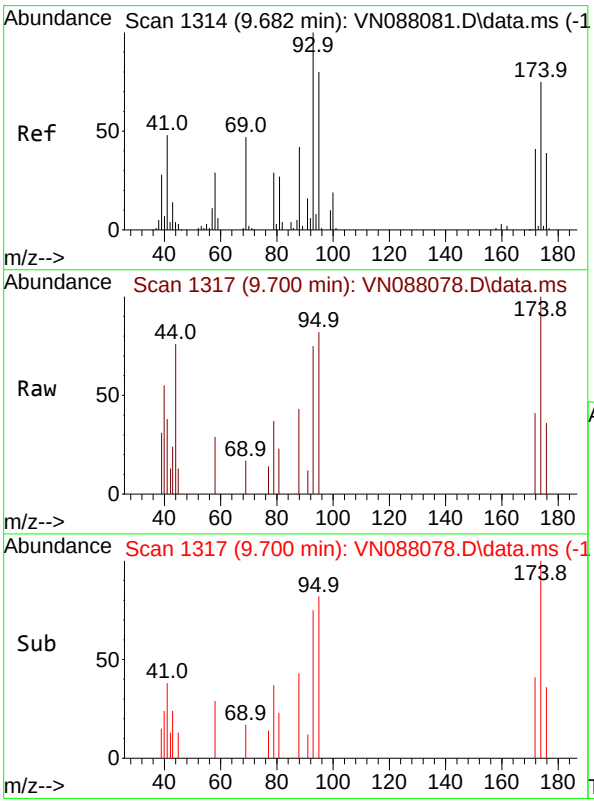
Ion	Ratio	Lower	Upper
41	100		
69	71.1	62.7	94.1
39	60.6	52.9	79.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

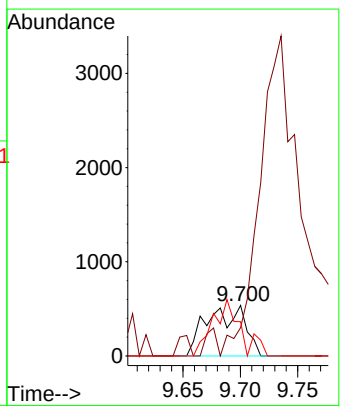
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

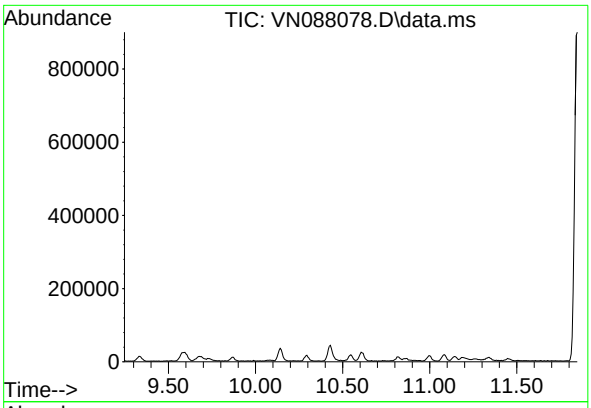


#49
1,4-Dioxane
Concen: 18.907 ug/l m
RT: 9.700 min Scan# 1317
Delta R.T. 0.018 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 88 Resp: 1238

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	82.5	57.9	86.9





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.55 min

Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

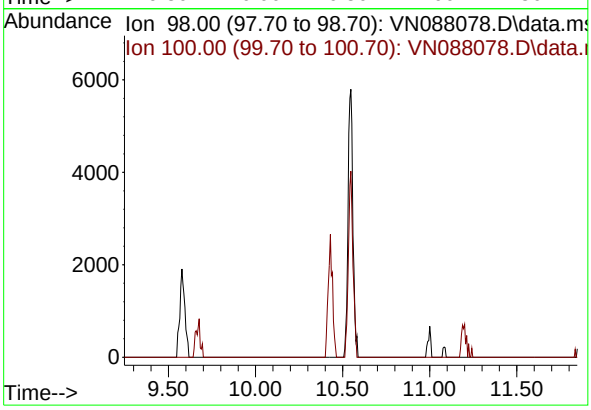
Tgt Ion: 98

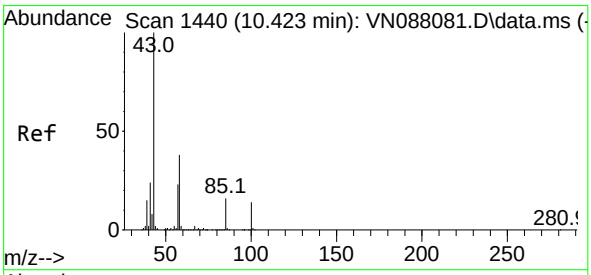
Sig	Exp Ratio
98	100
100	66.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

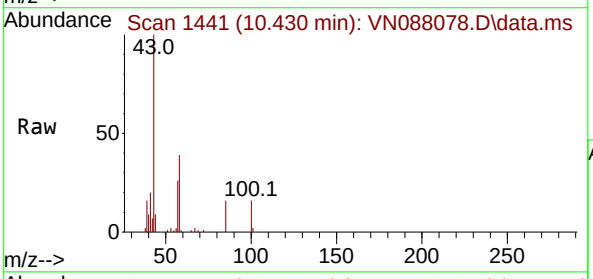


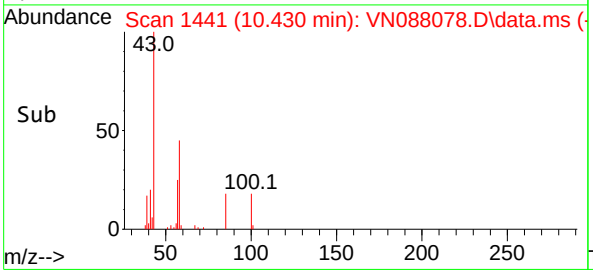


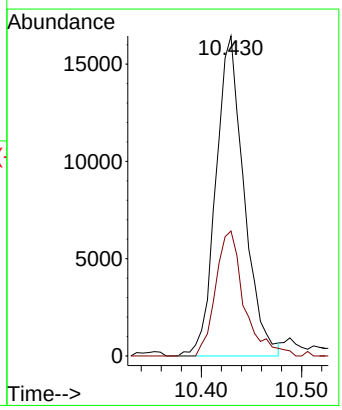
#51
4-Methyl-2-Pentanone
Concen: 4.760 ug/l
RT: 10.430 min Scan# 1441
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

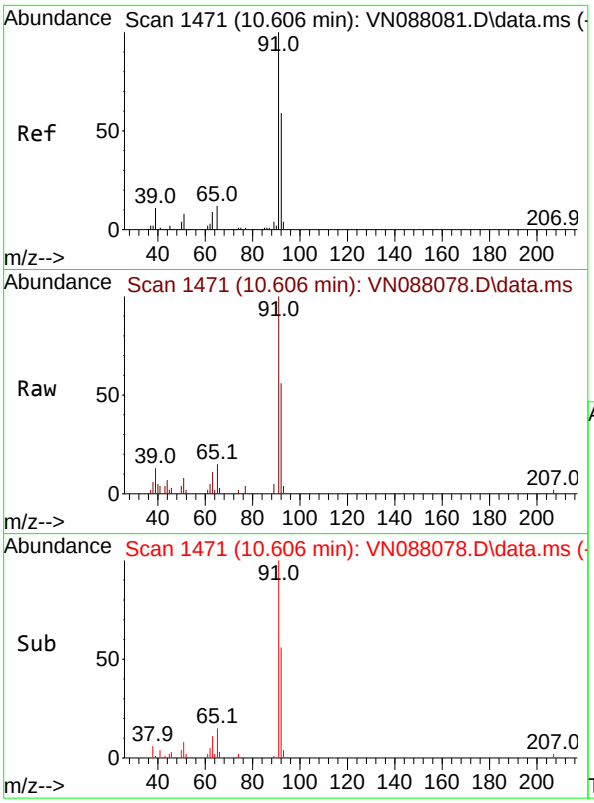
Tgt Ion: 43 Resp: 32109

Ion	Ratio	Lower	Upper
43	100		
58	39.4	29.6	44.4





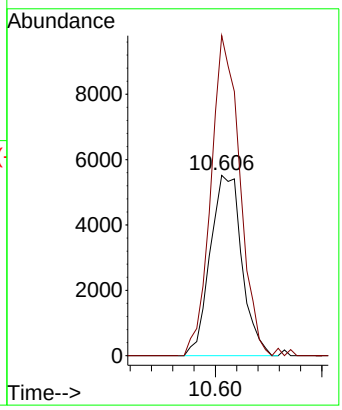




#52
Toluene
Concen: 1.054 ug/l
RT: 10.606 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 92 Resp: 1138

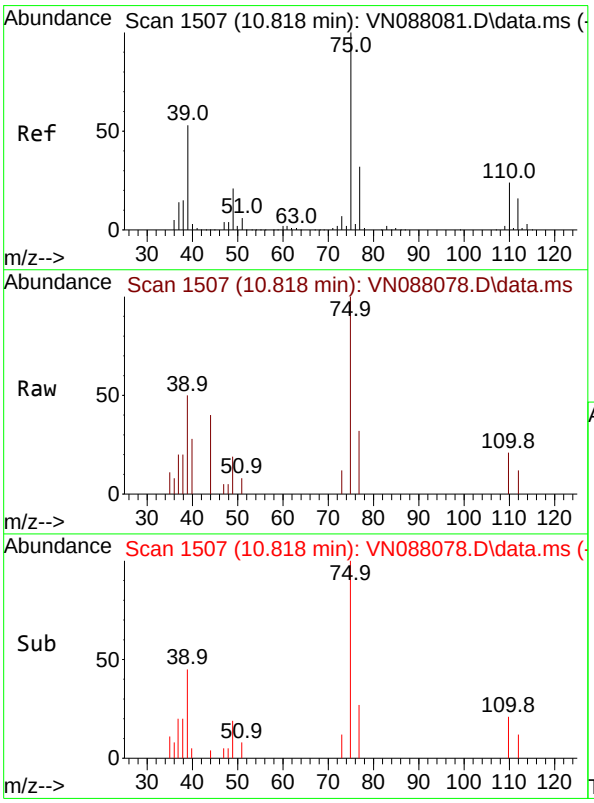
Ion	Ratio	Lower	Upper
92	100		
91	161.9	140.4	210.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

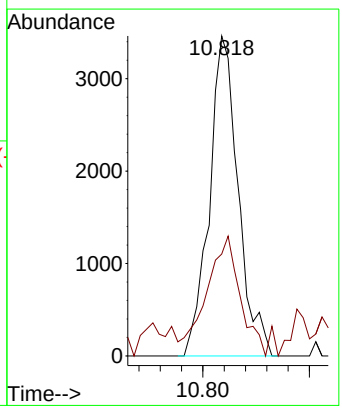
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

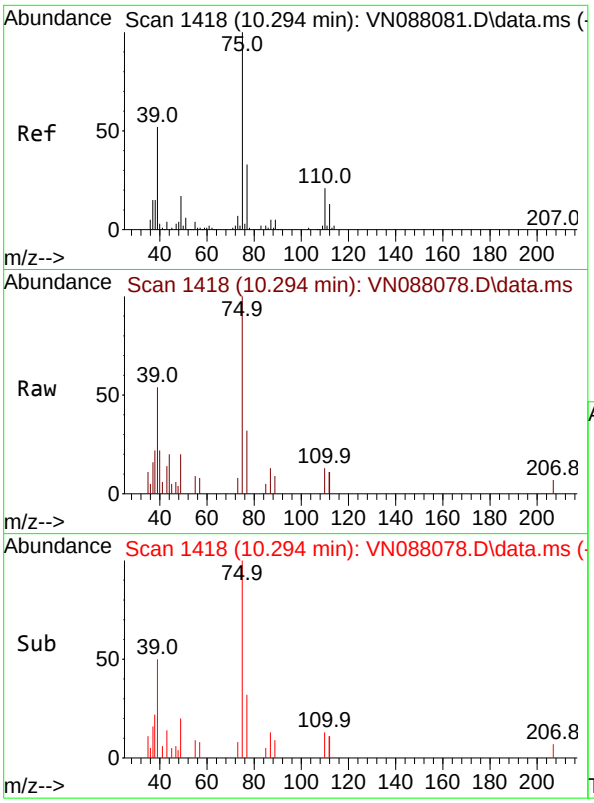


#53
t-1,3-Dichloropropene
Concen: 0.967 ug/l
RT: 10.818 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 75 Resp: 6496

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.2	37.8

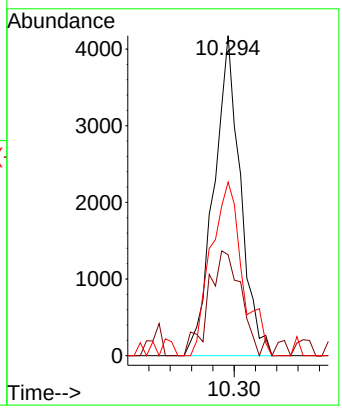




#54
cis-1,3-Dichloropropene
Concen: 1.012 ug/l
RT: 10.294 min Scan# 14
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 75 Resp: 721

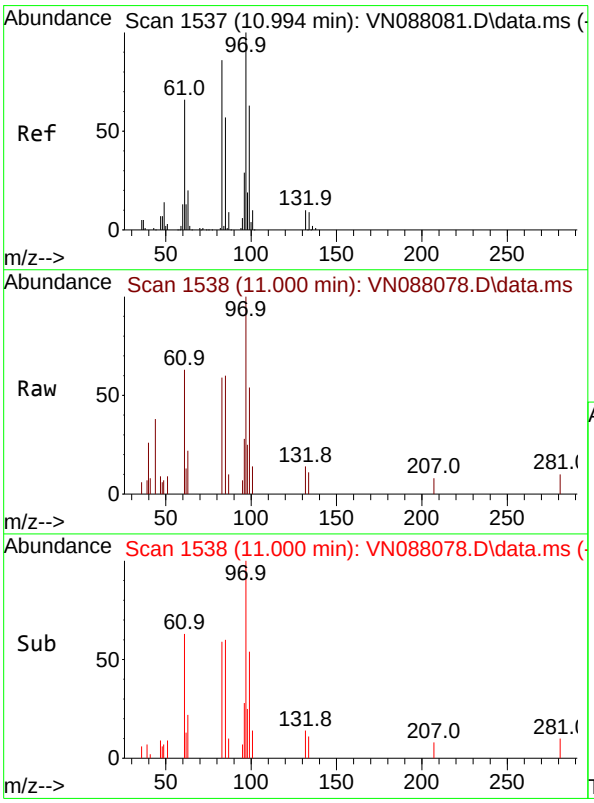
Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.6	37.0
39	54.3	45.2	67.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

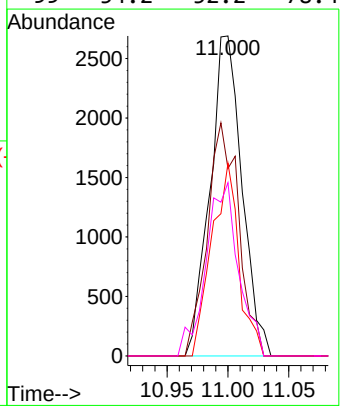
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

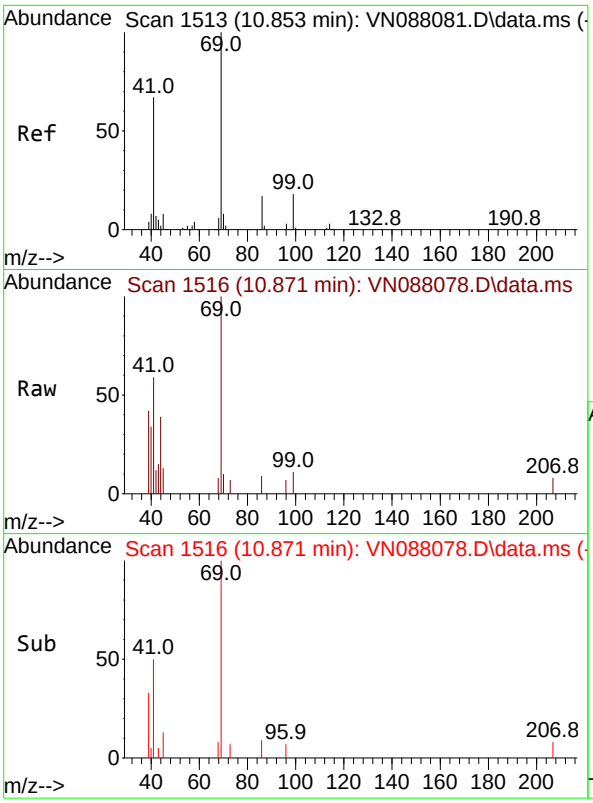


#55
1,1,2-Trichloroethane
Concen: 1.204 ug/l
RT: 11.000 min Scan# 1538
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 97 Resp: 4933

Ion	Ratio	Lower	Upper
97	100		
83	58.6	68.2	102.4#
85	60.3	45.5	68.3
99	54.2	52.2	78.4

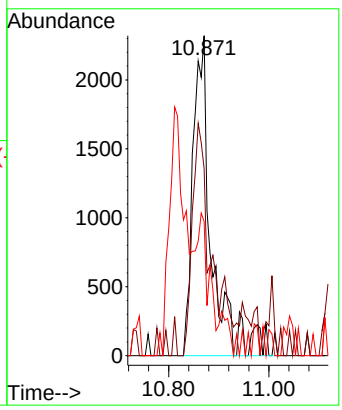




#56
Ethyl methacrylate
Concen: 0.933 ug/l m
RT: 10.871 min Scan# 1
Delta R.T. 0.018 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 69 Resp: 603

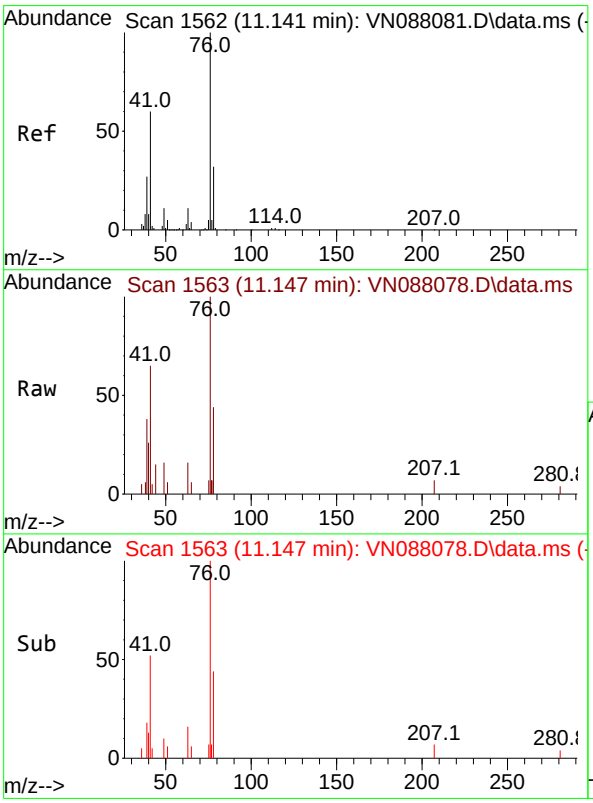
Ion	Ratio	Lower	Upper
69	100		
41	61.2	56.5	84.7
39	27.7	34.2	51.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

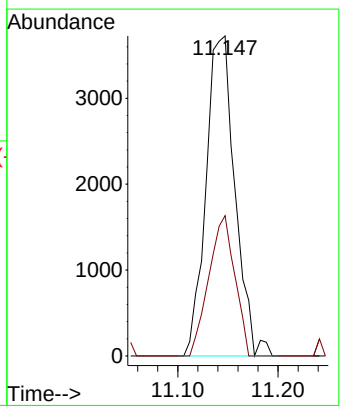
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

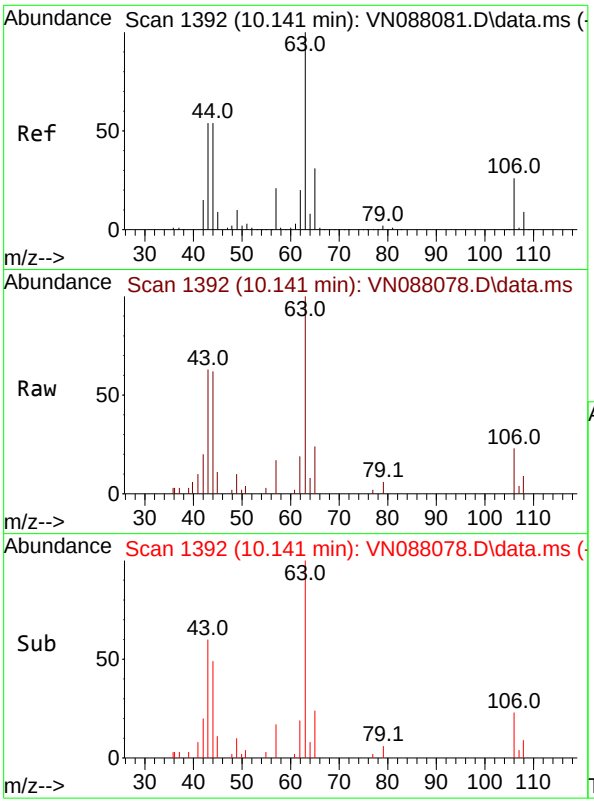


#57
1,3-Dichloropropane
Concen: 1.040 ug/l
RT: 11.147 min Scan# 1563
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 76 Resp: 7489

Ion	Ratio	Lower	Upper
76	100		
78	39.2	26.2	39.4





#58
2-Chloroethyl Vinyl ether
Concen: 4.862 ug/l
RT: 10.141 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

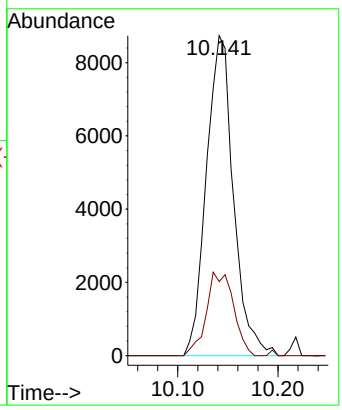
Tgt Ion: 63 Resp: 1639

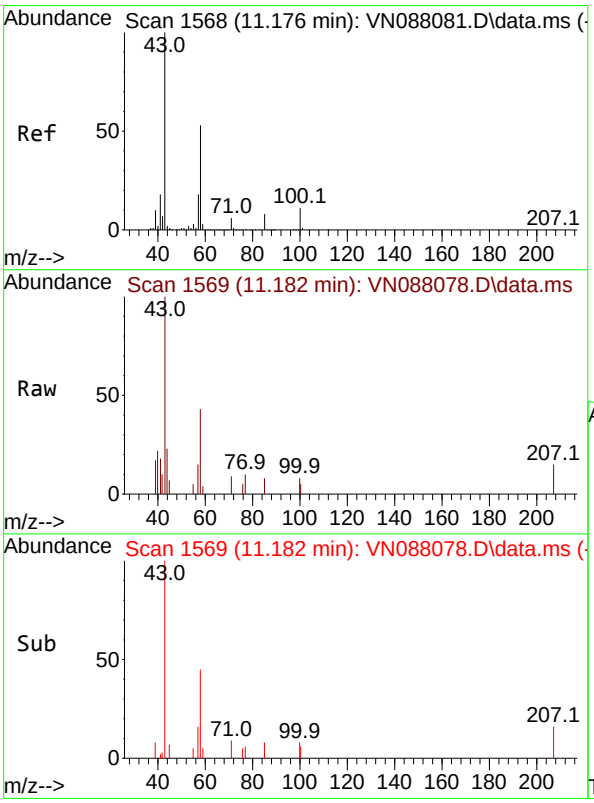
Ion	Ratio	Lower	Upper
63	100		
106	26.1	21.1	31.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

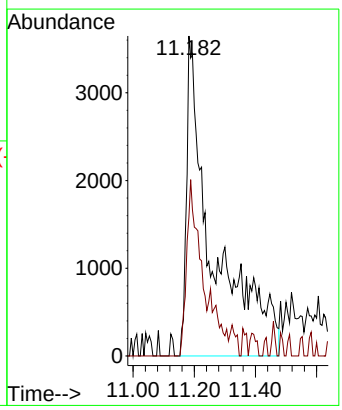


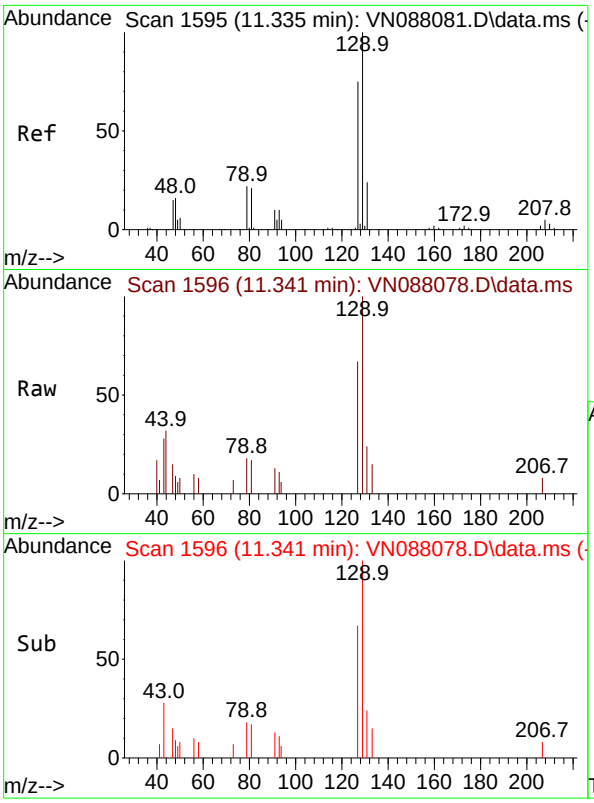


#59
2-Hexanone
Concen: 4.891 ug/l m
RT: 11.182 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 43 Resp: 21660

Ion	Ratio	Lower	Upper
43	100		
58	26.8	25.9	77.8

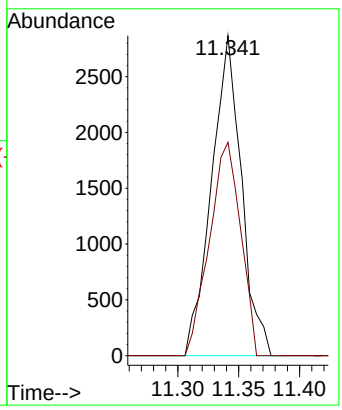




#60
Dibromochloromethane
Concen: 1.052 ug/l
RT: 11.341 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:129 Resp: 490

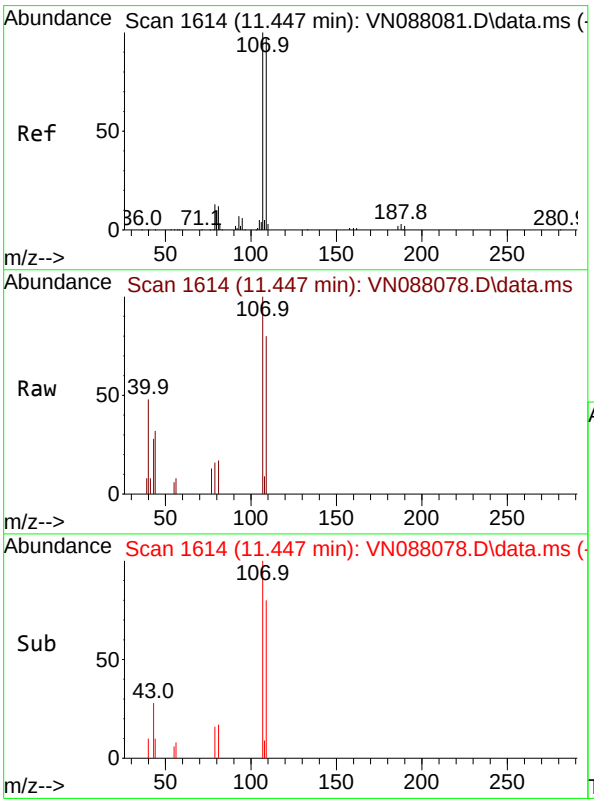
Ion	Ratio	Lower	Upper
129	100		
127	69.5	39.1	117.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

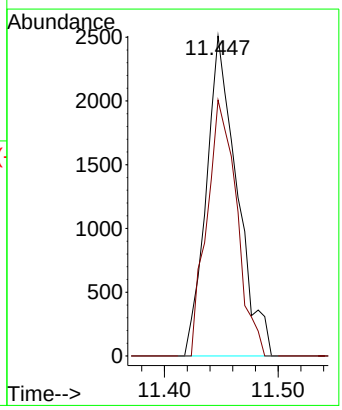
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

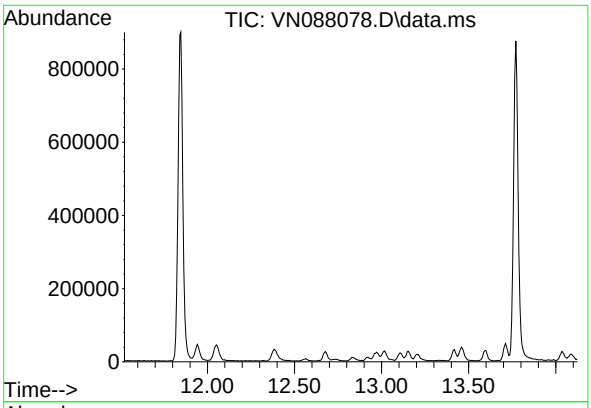


#61
1,2-Dibromoethane
Concen: 1.120 ug/l
RT: 11.447 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:107 Resp: 4721

Ion	Ratio	Lower	Upper
107	100		
109	77.3	74.7	112.1





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.82 min

Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

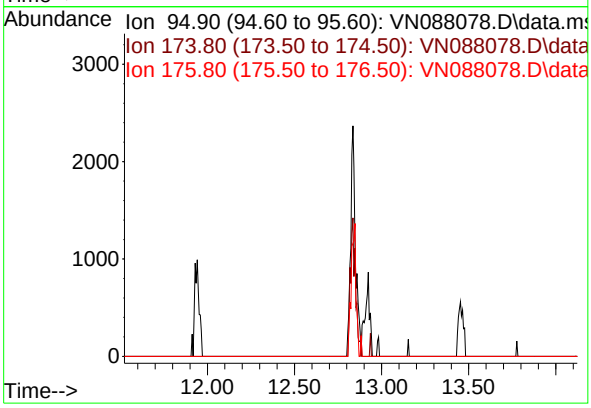
Tgt Ion: 95

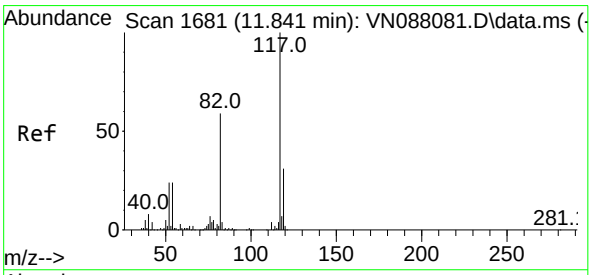
Sig	Exp Ratio
95	100
174	69.2
176	66.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

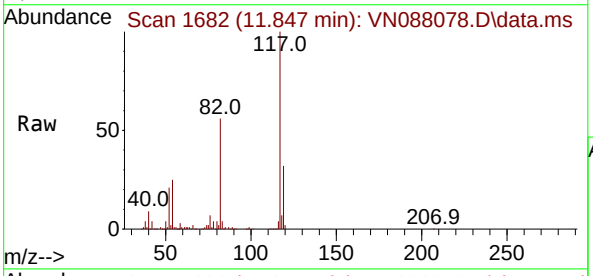


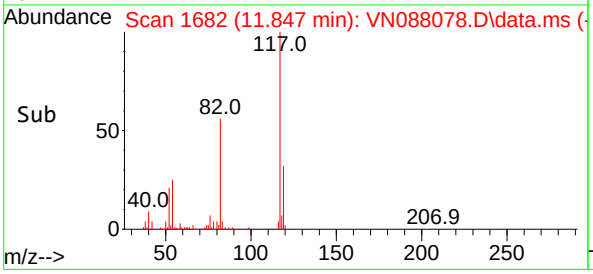


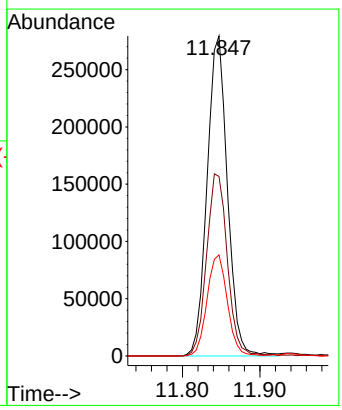
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

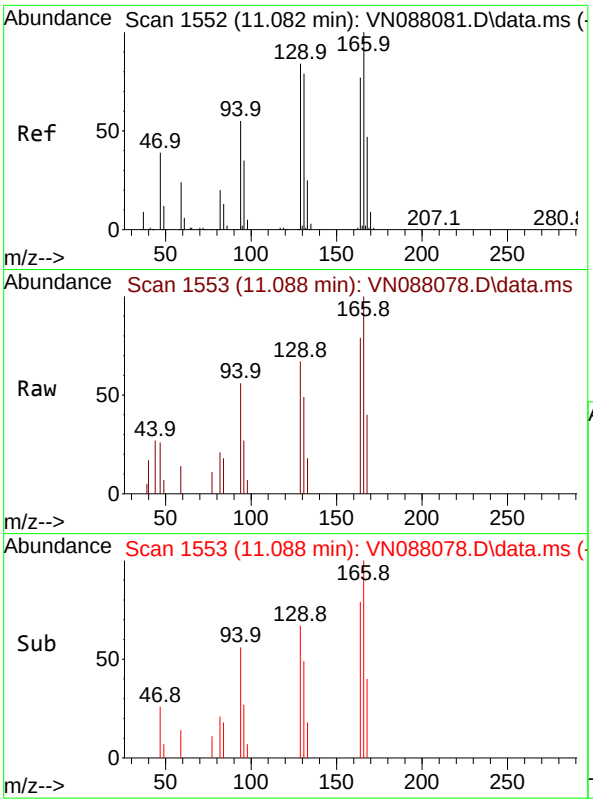
Tgt Ion:117 Resp: 509993

Ion	Ratio	Lower	Upper
117	100		
82	56.1	47.4	71.2
119	31.6	24.3	36.5





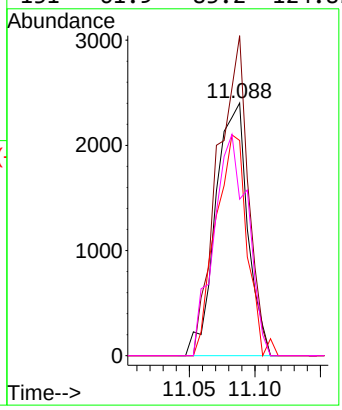




#64
Tetrachloroethene
Concen: 1.214 ug/l
RT: 11.088 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:164 Resp: 408

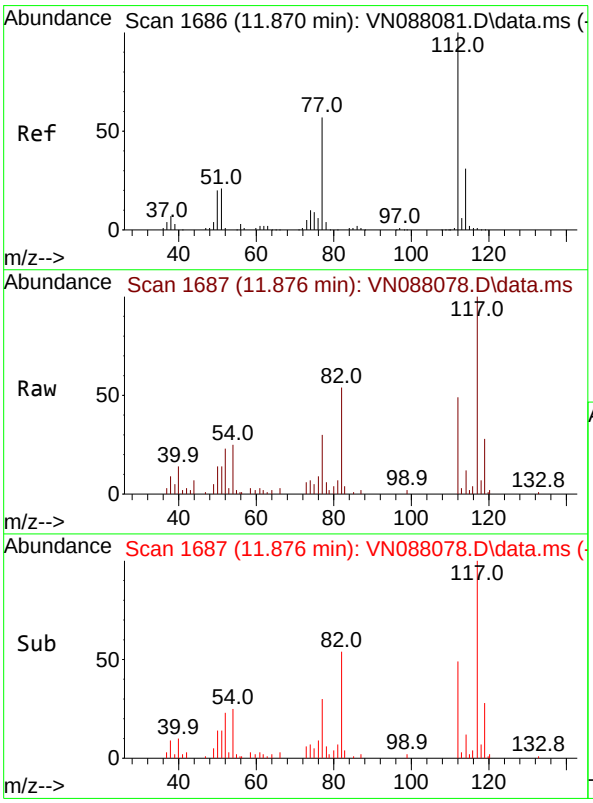
Ion	Ratio	Lower	Upper
164	100		
166	126.7	97.7	146.5
129	85.2	85.9	128.9#
131	61.9	83.2	124.8#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

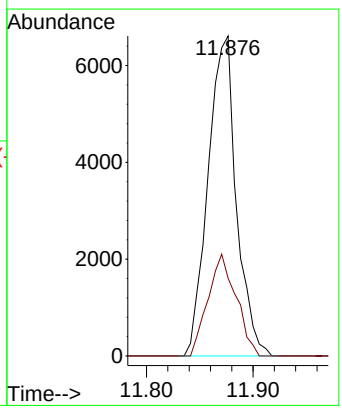
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

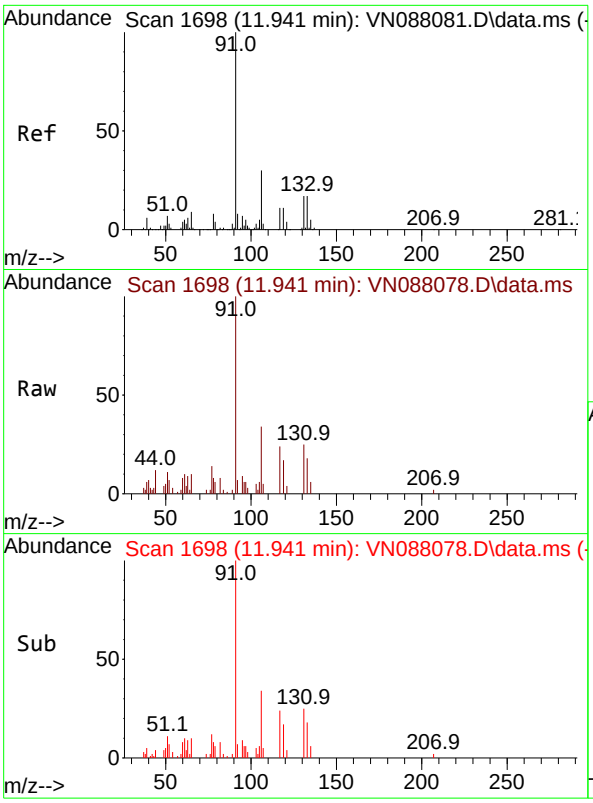


#65
Chlorobenzene
Concen: 1.054 ug/l
RT: 11.876 min Scan# 1687
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:112 Resp: 12205

Ion	Ratio	Lower	Upper
112	100		
114	24.3	24.3	36.5#

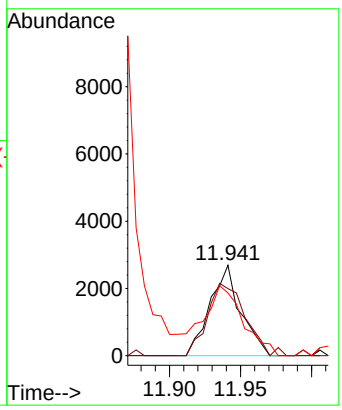




#66
1,1,1,2-Tetrachloroethane
Concen: 1.066 ug/l
RT: 11.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:131 Resp: 404

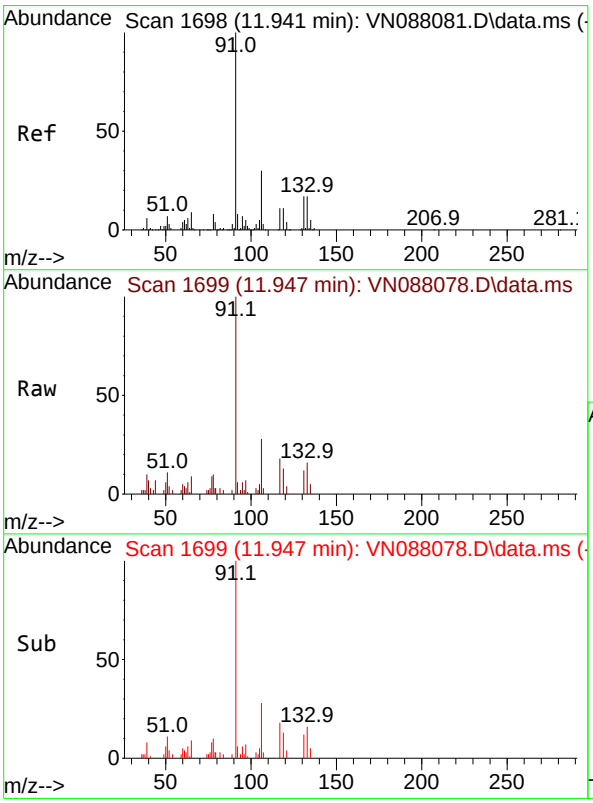
Ion	Ratio	Lower	Upper
131	100		
133	98.9	48.0	144.0
119	0.0	32.6	97.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

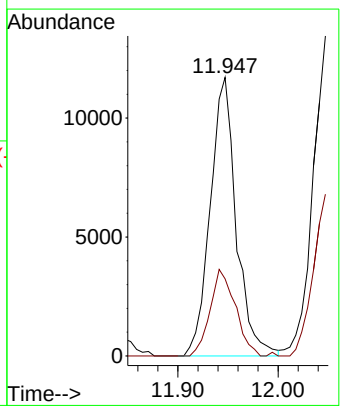
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

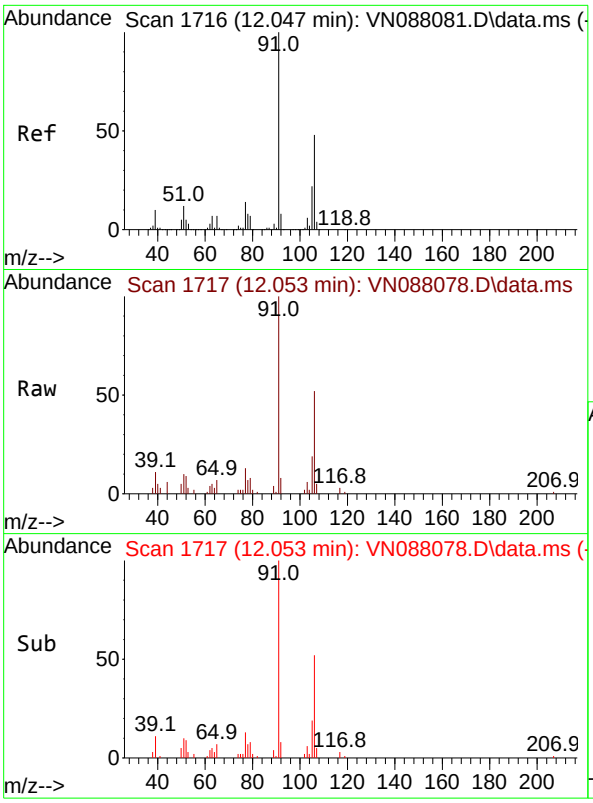


#67
Ethyl Benzene
Concen: 1.038 ug/l
RT: 11.947 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 91 Resp: 21103

Ion	Ratio	Lower	Upper
91	100		
106	27.7	24.1	36.1

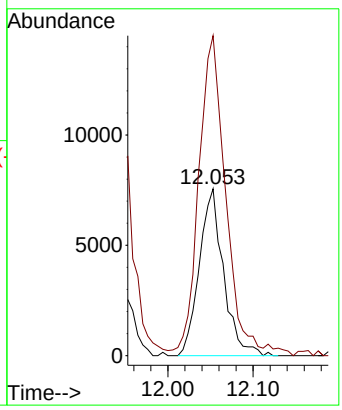




#68
m/p-Xylenes
Concen: 1.964 ug/l
RT: 12.053 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:106 Resp: 1495

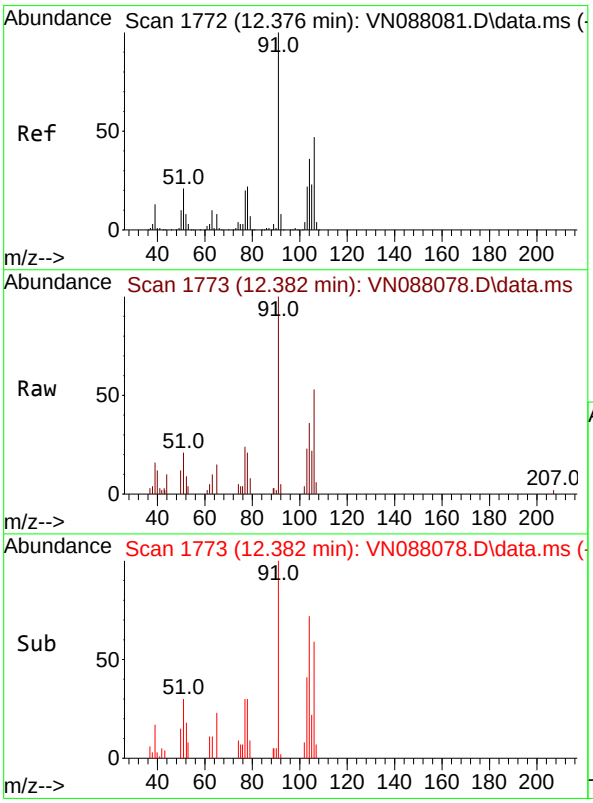
Ion	Ratio	Lower	Upper
106	100		
91	201.0	169.3	253.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

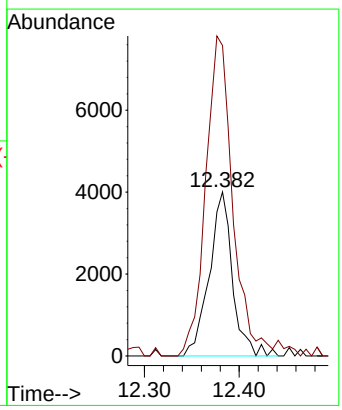
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

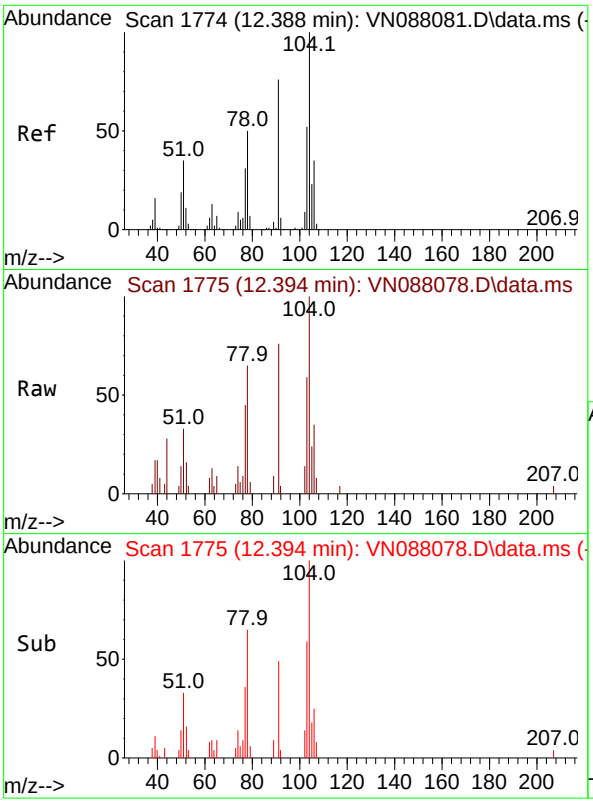


#69
o-Xylene
Concen: 0.946 ug/l
RT: 12.382 min Scan# 1773
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:106 Resp: 6831

Ion	Ratio	Lower	Upper
106	100		
91	225.5	111.4	334.2

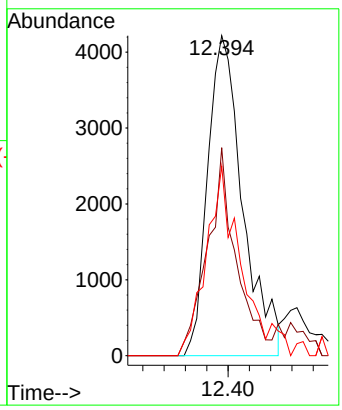




#70
Styrene
Concen: 0.819 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:104 Resp: 964

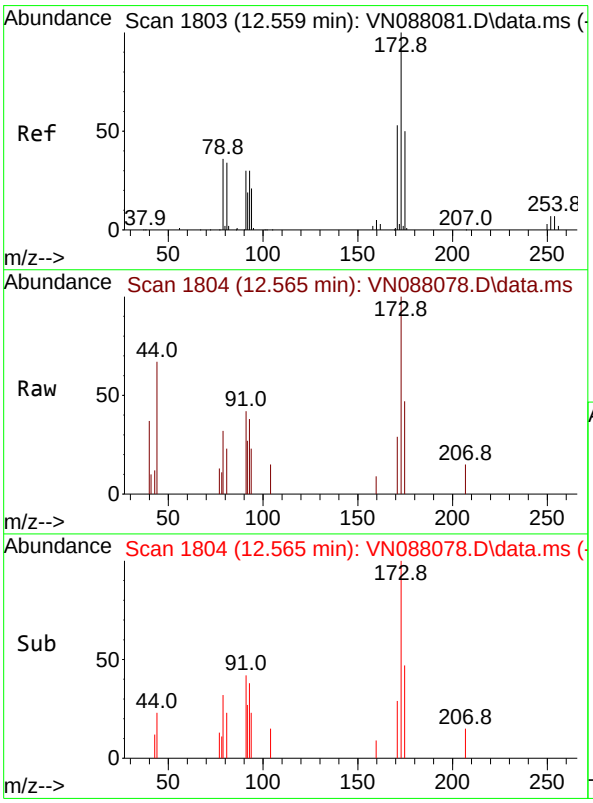
Ion	Ratio	Lower	Upper
104	100		
78	53.4	42.2	63.2
103	55.5	43.4	65.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

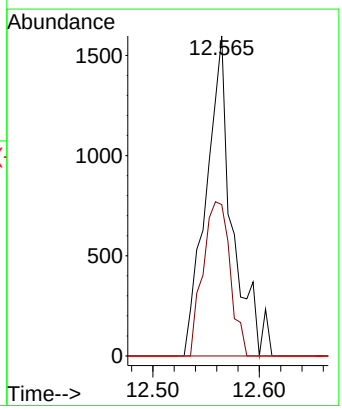
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

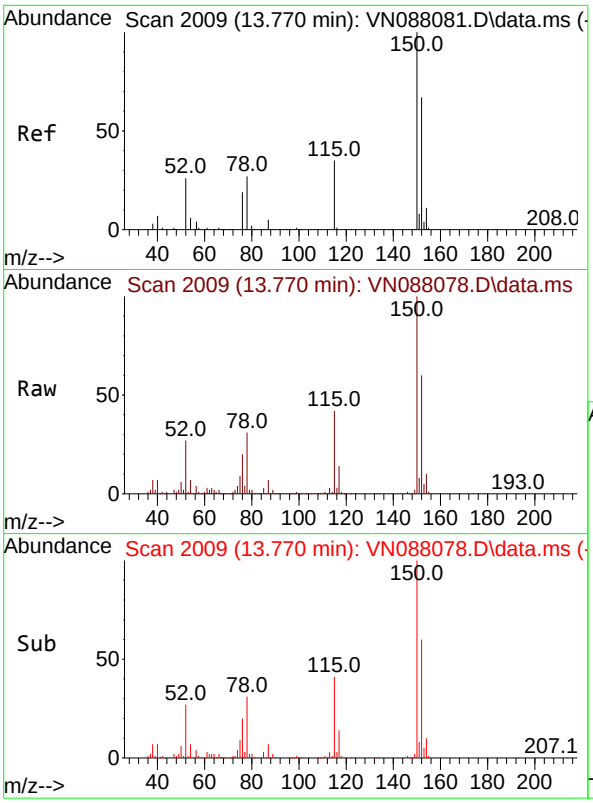


#71
Bromoform
Concen: 0.964 ug/l
RT: 12.565 min Scan# 1804
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:173 Resp: 2730

Ion	Ratio	Lower	Upper
173	100		
175	49.9	24.9	74.6
254	0.0	0.1	0.1#

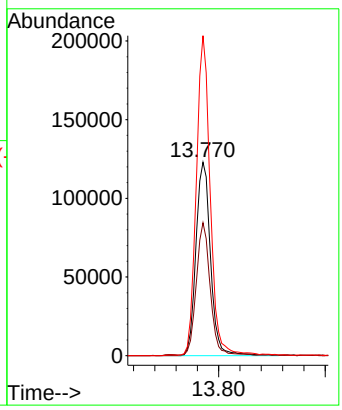




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:152 Resp: 23382

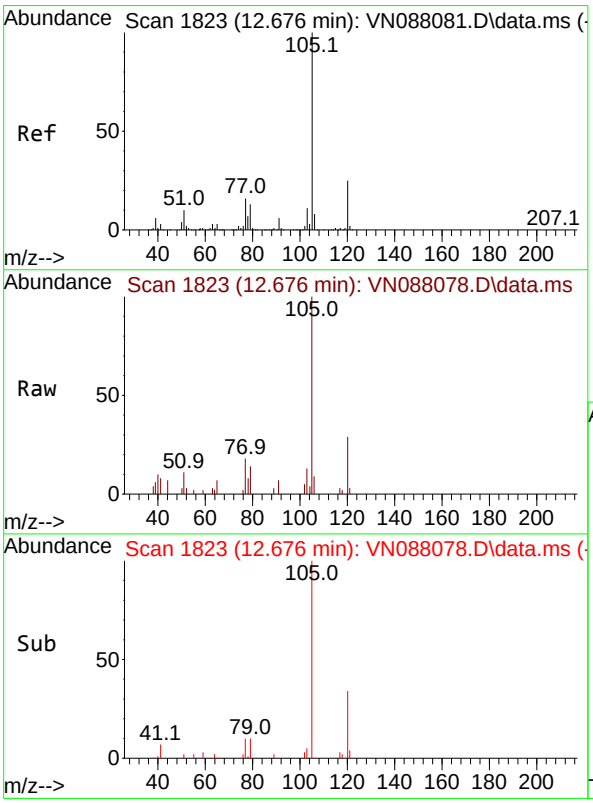
Ion	Ratio	Lower	Upper
152	100		
115	64.6	32.3	96.8
150	157.6	0.0	351.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

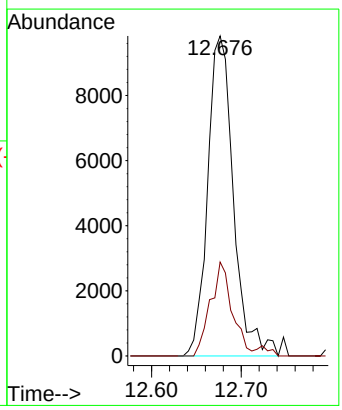
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

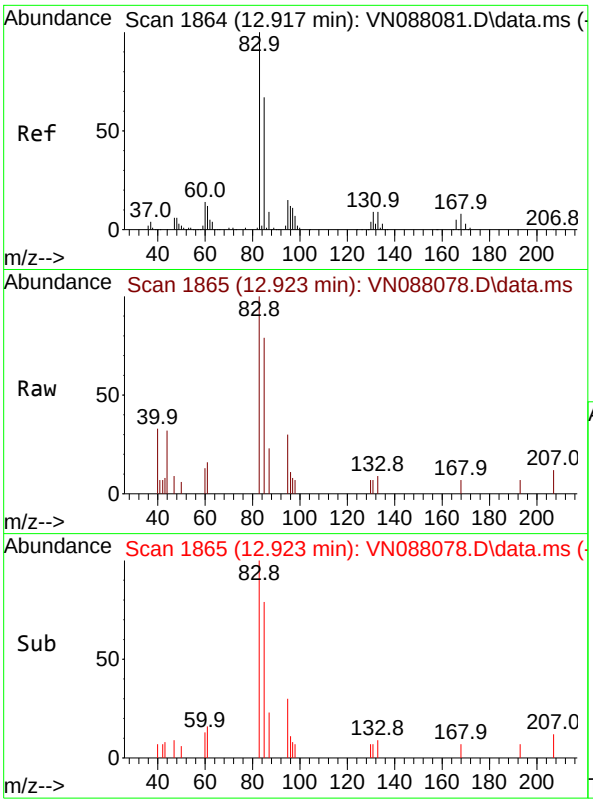


#73
Isopropylbenzene
Concen: 1.086 ug/l
RT: 12.676 min Scan# 1823
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:105 Resp: 19589

Ion	Ratio	Lower	Upper
105	100		
120	24.9	12.8	38.3

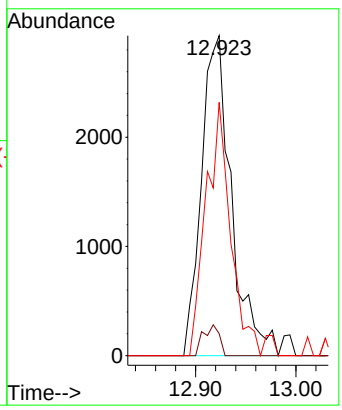




#75
1,1,2,2-Tetrachloroethane
Concen: 1.086 ug/l
RT: 12.923 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 83 Resp: 609

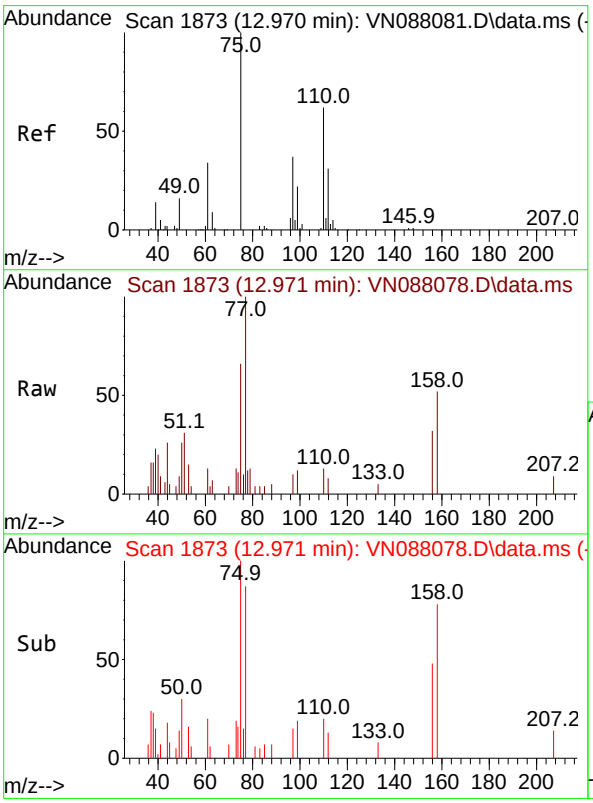
Ion	Ratio	Lower	Upper
83	100		
131	5.1	4.8	14.4
85	64.8	32.1	96.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

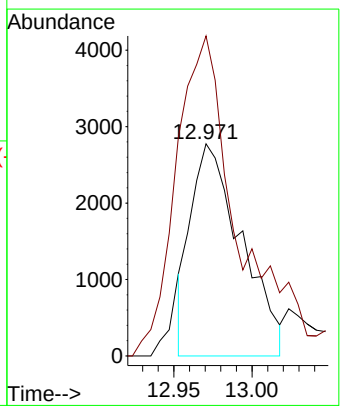
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

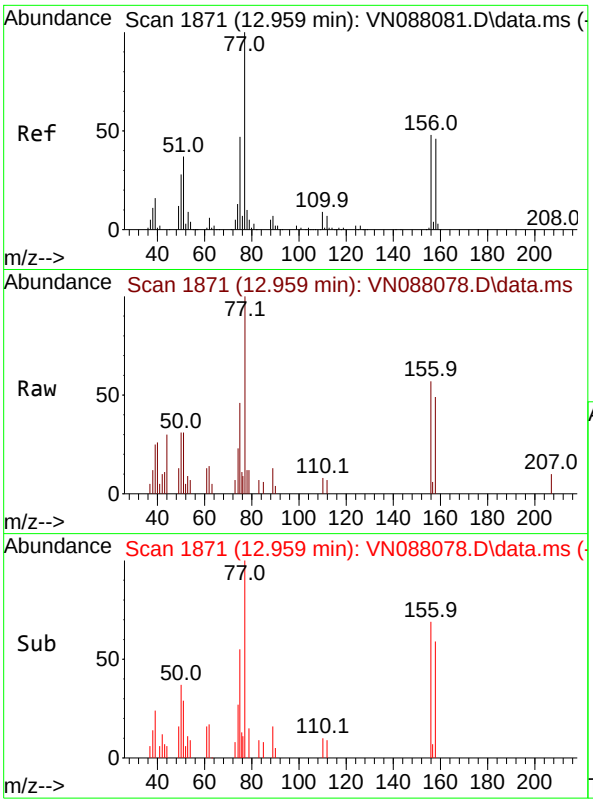


#76
1,2,3-Trichloropropane
Concen: 1.246 ug/l m
RT: 12.971 min Scan# 1873
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 75 Resp: 6237

Ion	Ratio	Lower	Upper
75	100		
77	184.7	89.1	267.4

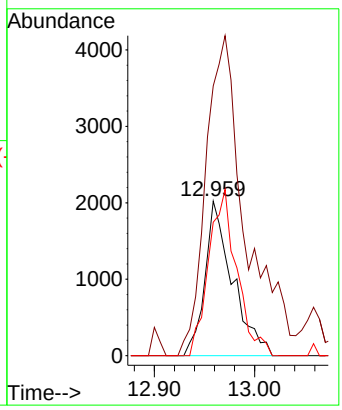




#77
Bromobenzene
Concen: 0.993 ug/l
RT: 12.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:156 Resp: 386

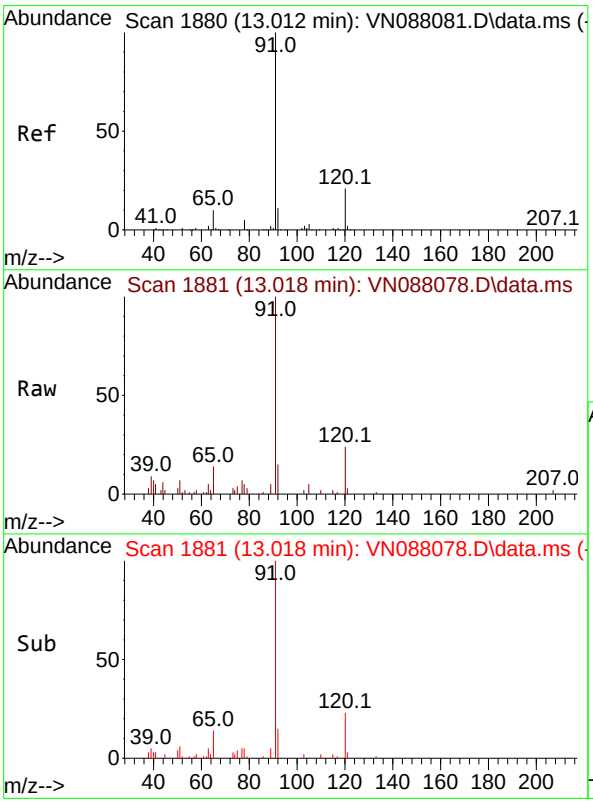
Ion	Ratio	Lower	Upper
156	100		
77	298.3	119.3	358.0
158	109.7	48.2	144.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

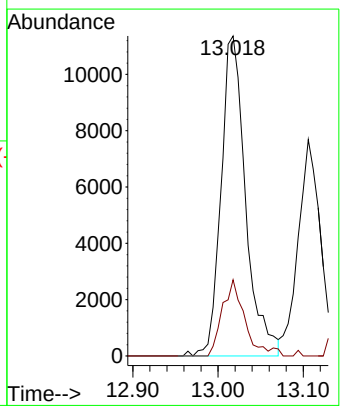
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

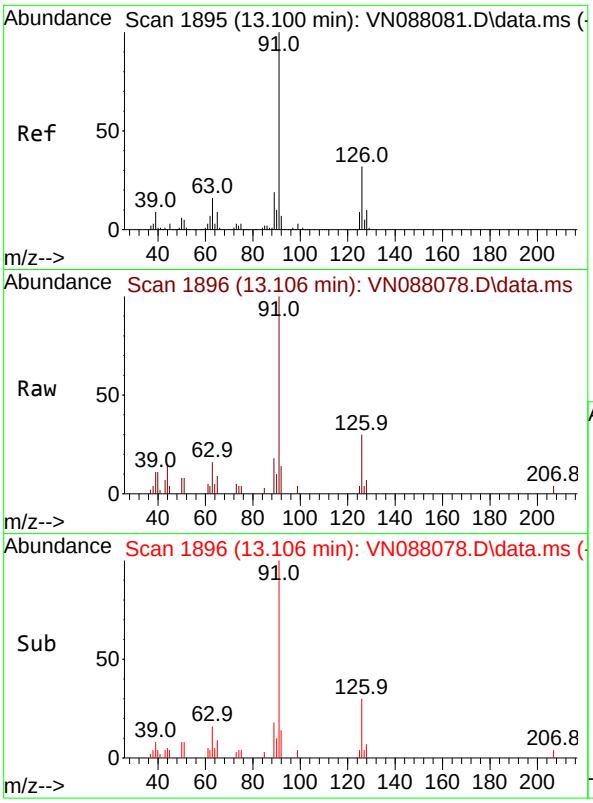


#78
n-propylbenzene
Concen: 1.036 ug/l
RT: 13.018 min Scan# 1881
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 91 Resp: 22793

Ion	Ratio	Lower	Upper
91	100		
120	21.9	10.7	32.1

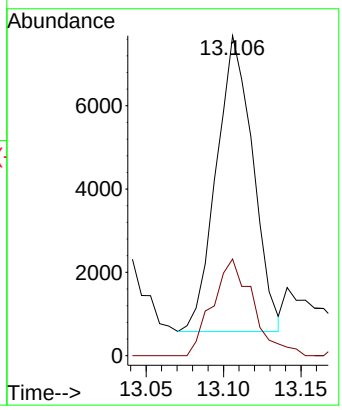




#79
2-Chlorotoluene
Concen: 0.929 ug/l
RT: 13.106 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 91 Resp: 1165

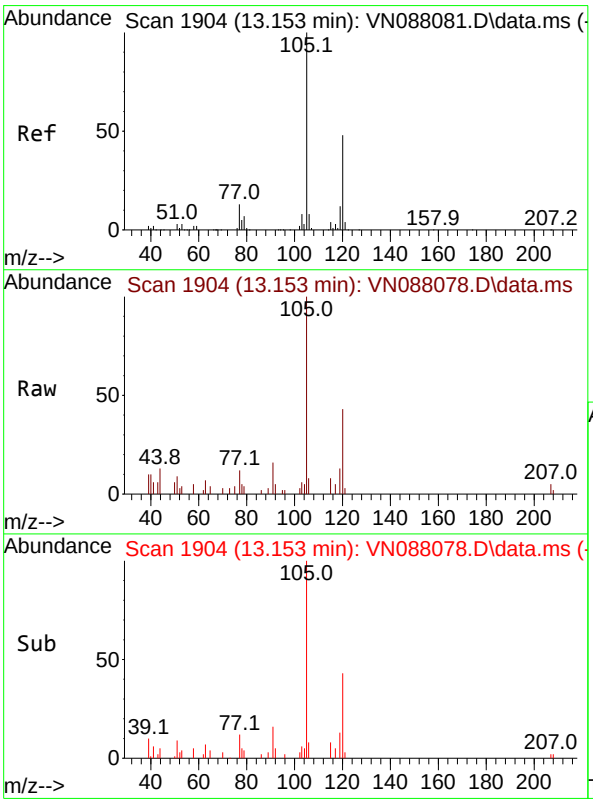
Ion	Ratio	Lower	Upper
91	100		
126	36.1	16.1	48.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

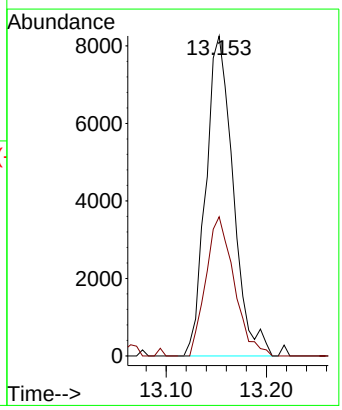
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

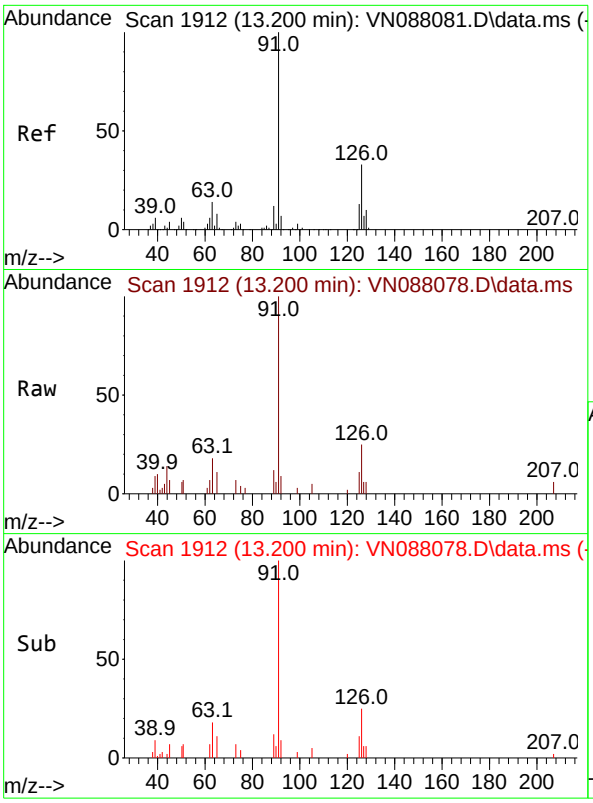


#80
1,3,5-Trimethylbenzene
Concen: 1.039 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:105 Resp: 15569

Ion	Ratio	Lower	Upper
105	100		
120	45.3	23.2	69.6

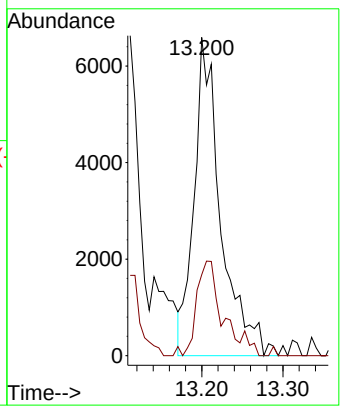




#82
4-Chlorotoluene
Concen: 1.109 ug/l
RT: 13.200 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 91 Resp: 1505

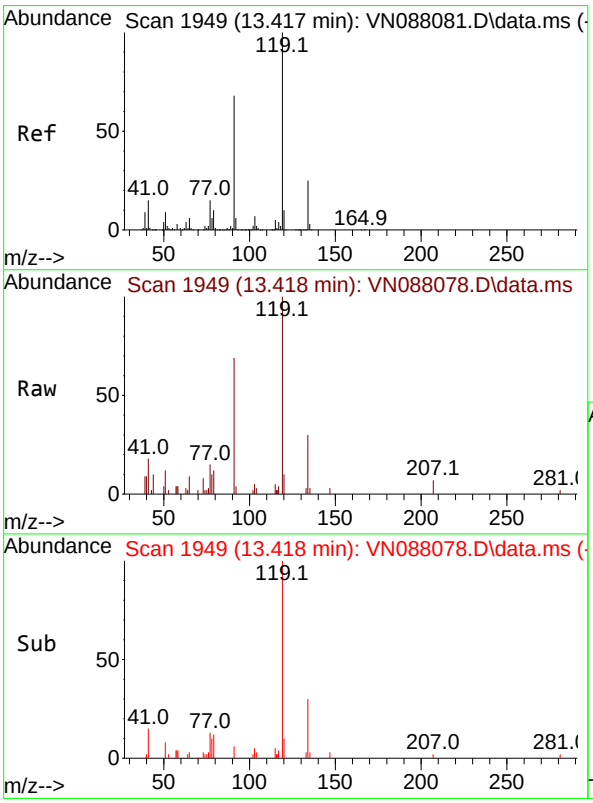
Ion	Ratio	Lower	Upper
91	100		
126	27.2	15.6	46.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

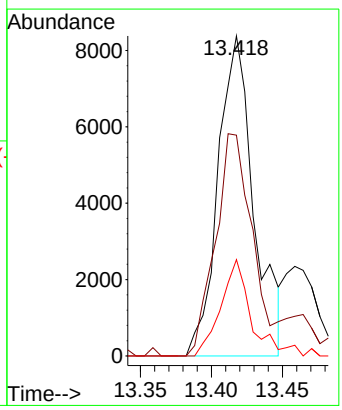
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

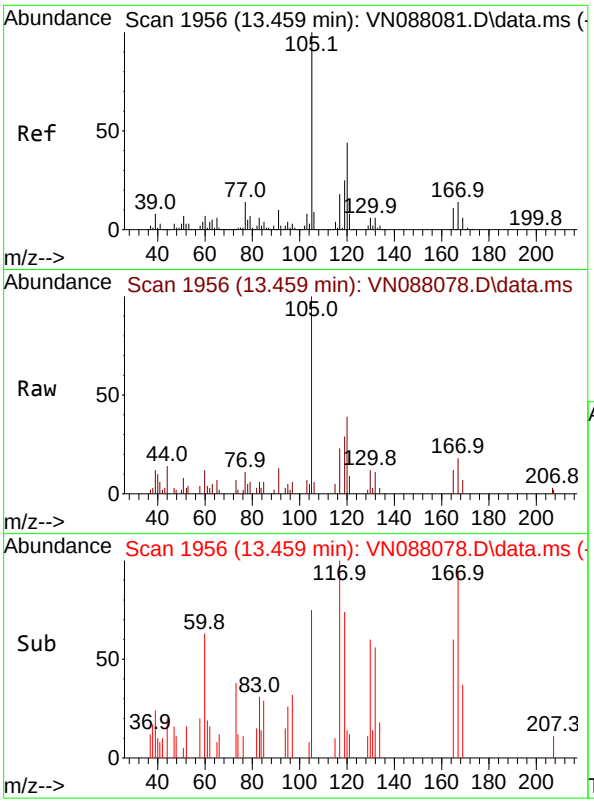


#83
tert-Butylbenzene
Concen: 1.102 ug/l
RT: 13.418 min Scan# 1949
Delta R.T. 0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:119 Resp: 14748

Ion	Ratio	Lower	Upper
119	100		
91	72.1	35.0	105.0
134	26.0	12.6	37.8

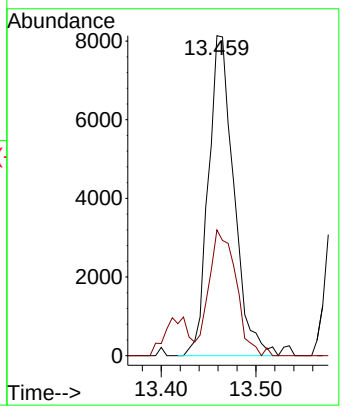




#84
1,2,4-Trimethylbenzene
Concen: 1.012 ug/l
RT: 13.459 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:105 Resp: 1516

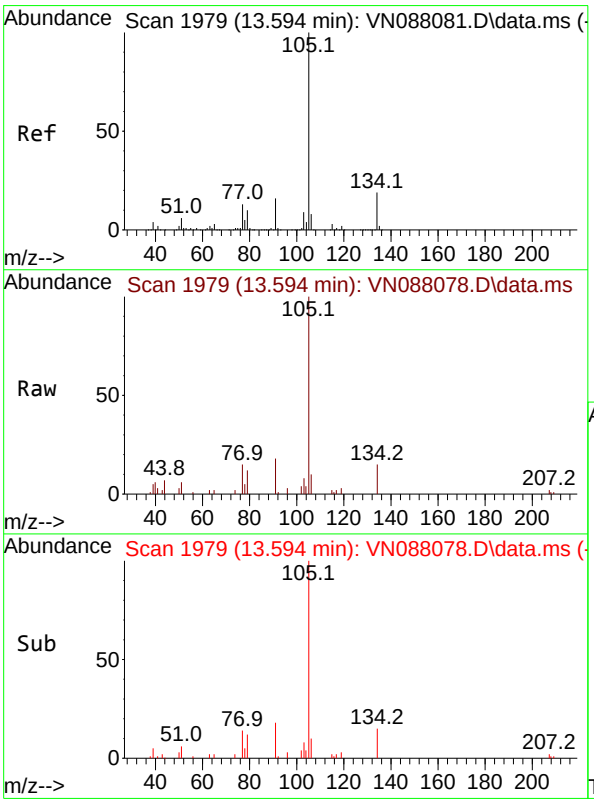
Ion	Ratio	Lower	Upper
105	100		
120	42.0	22.0	66.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

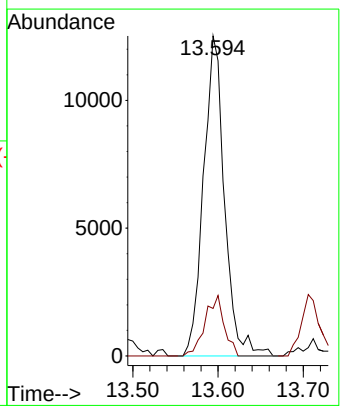
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

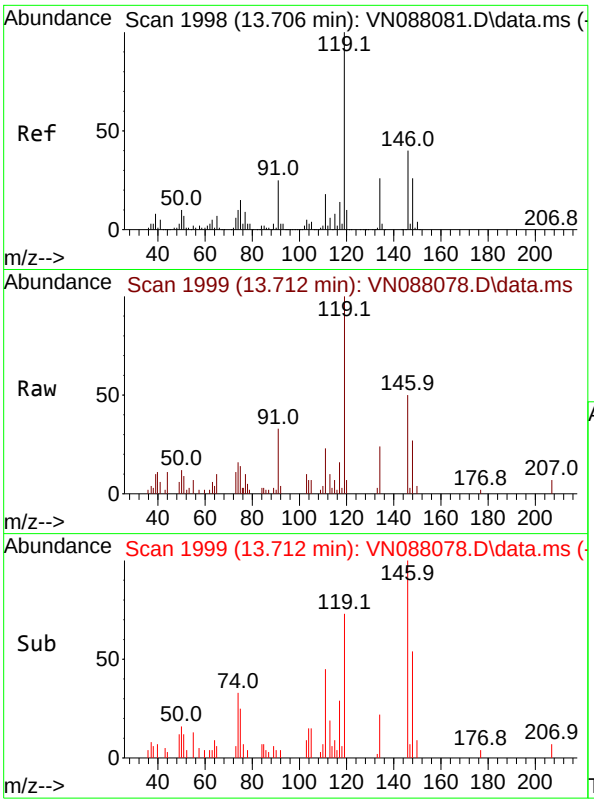


#85
sec-Butylbenzene
Concen: 1.089 ug/l
RT: 13.594 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:105 Resp: 21410

Ion	Ratio	Lower	Upper
105	100		
134	17.3	9.6	28.6

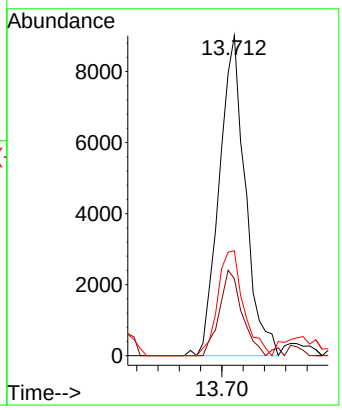




#86
p-Isopropyltoluene
Concen: 0.970 ug/l
RT: 13.712 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:119 Resp: 1528

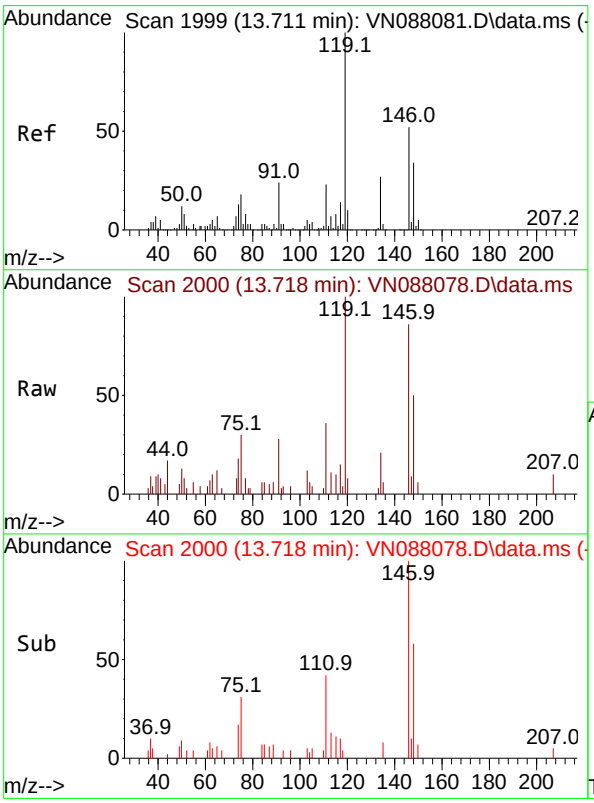
Ion	Ratio	Lower	Upper
119	100		
134	23.2	12.7	38.0
91	32.5	12.5	37.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

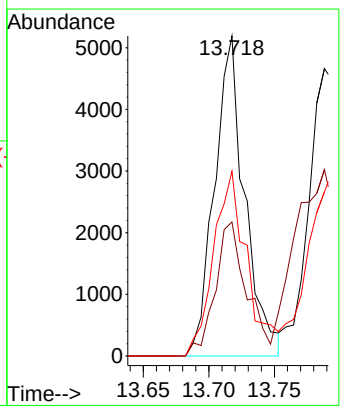
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

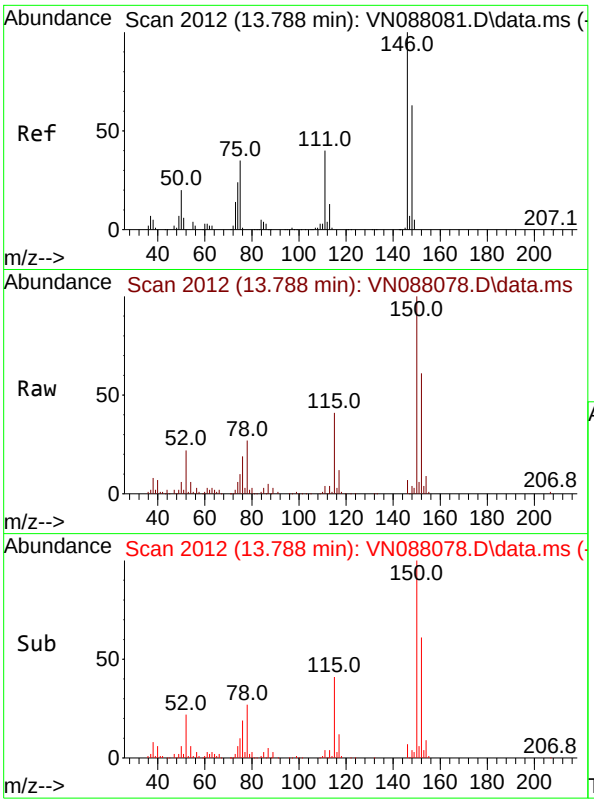


#87
1,3-Dichlorobenzene
Concen: 1.071 ug/l
RT: 13.718 min Scan# 2000
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:146 Resp: 8312

Ion	Ratio	Lower	Upper
146	100		
111	43.7	22.1	66.5
148	64.1	32.0	96.2

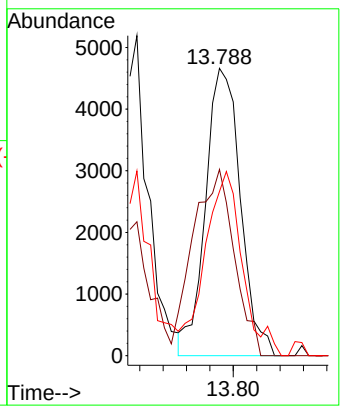




#88
1,4-Dichlorobenzene
Concen: 1.155 ug/l m
RT: 13.788 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:146 Resp: 965

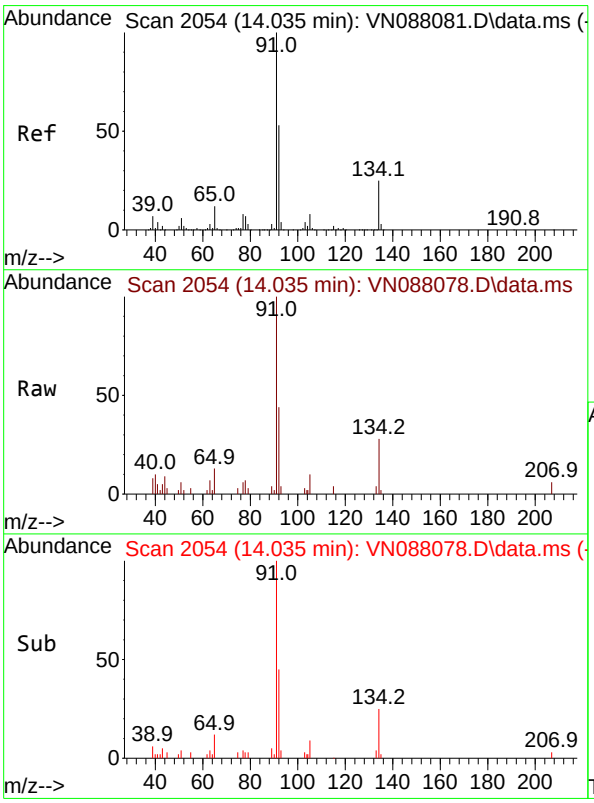
Ion	Ratio	Lower	Upper
146	100		
111	37.6	21.0	63.0
148	55.2	32.0	96.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

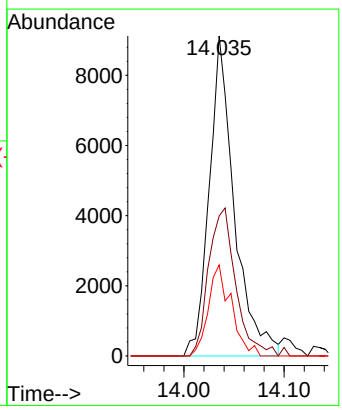
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

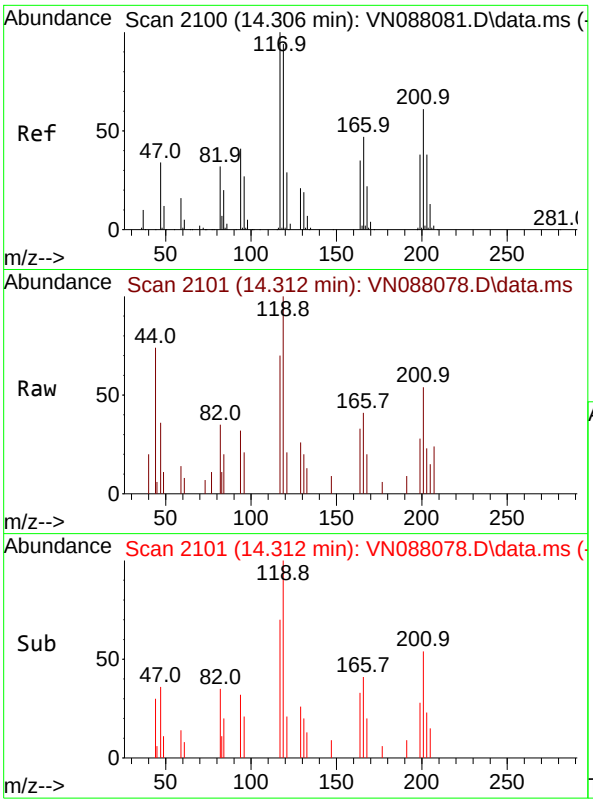


#89
n-Butylbenzene
Concen: 1.017 ug/l
RT: 14.035 min Scan# 2054
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 91 Resp: 15880

Ion	Ratio	Lower	Upper
91	100		
92	50.4	25.9	77.8
134	26.0	11.7	35.0

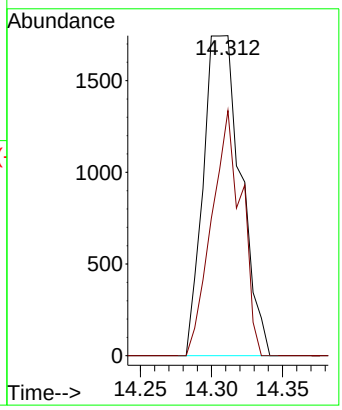




#90
Hexachloroethane
Concen: 1.052 ug/l
RT: 14.312 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:117 Resp: 321

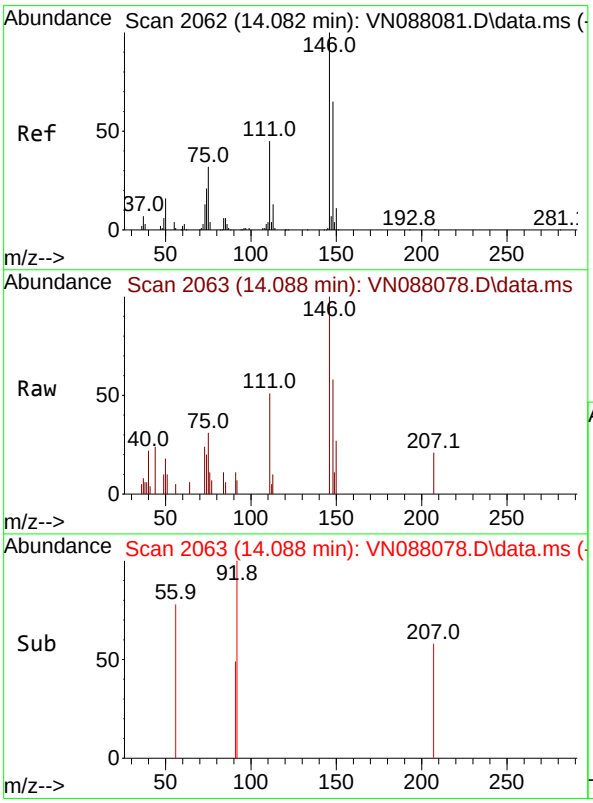
Ion	Ratio	Lower	Upper
117	100		
201	61.4	29.1	87.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

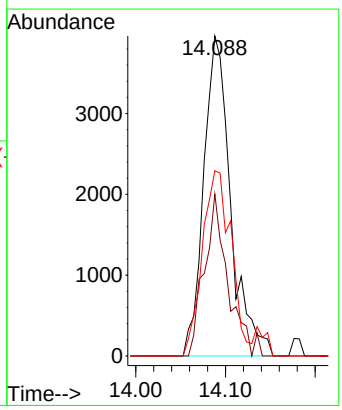
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

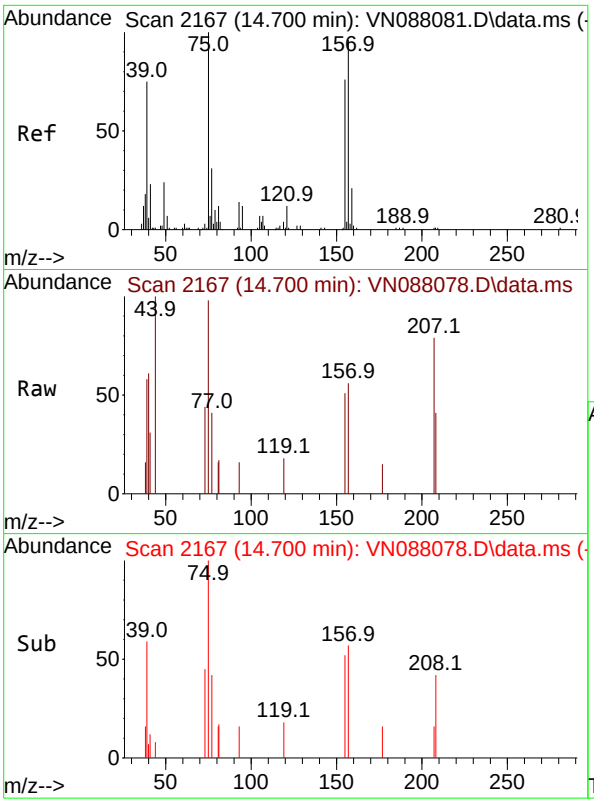


#91
1,2-Dichlorobenzene
Concen: 1.105 ug/l
RT: 14.088 min Scan# 2063
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:146 Resp: 8266

Ion	Ratio	Lower	Upper
146	100		
111	44.3	22.6	67.8
148	61.9	31.9	95.9

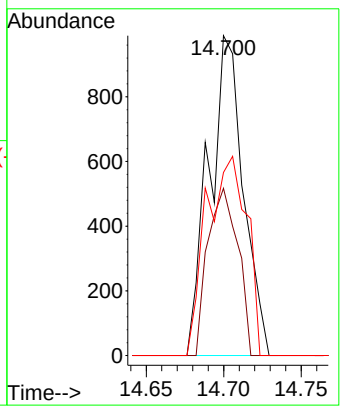




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.165 ug/l
RT: 14.700 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion: 75 Resp: 152

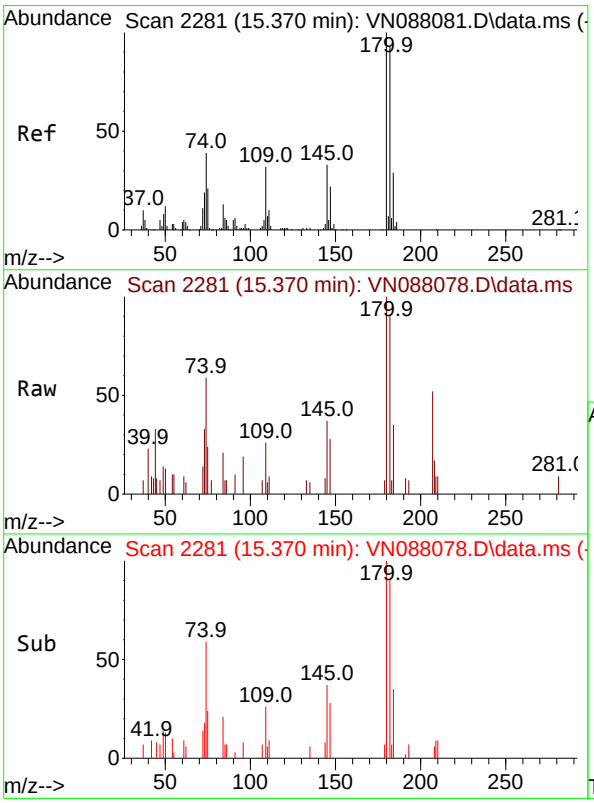
Ion	Ratio	Lower	Upper
75	100		
155	45.7	36.6	109.9
157	73.5	45.6	136.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

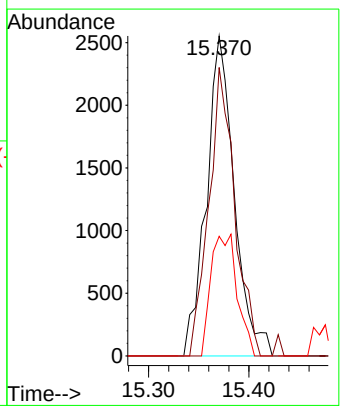
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

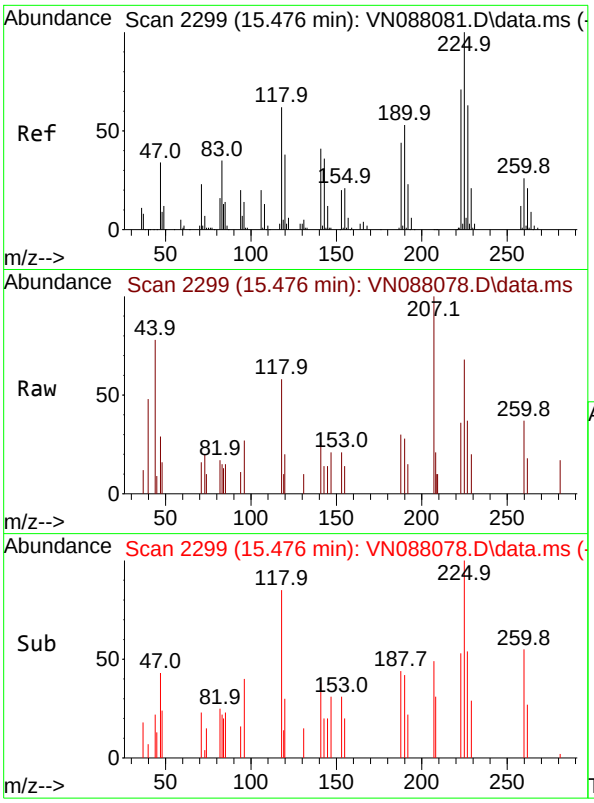


#93
1,2,4-Trichlorobenzene
Concen: 1.091 ug/l
RT: 15.370 min Scan# 2281
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:180 Resp: 4946

Ion	Ratio	Lower	Upper
180	100		
182	83.6	47.6	142.9
145	35.6	16.5	49.5

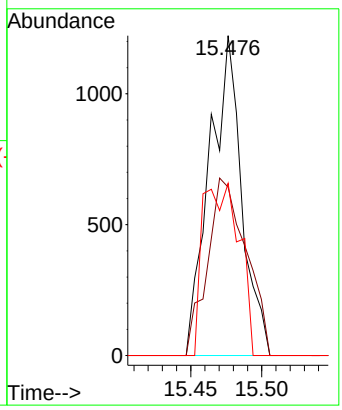




#94
Hexachlorobutadiene
Concen: 1.142 ug/l
RT: 15.476 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:225 Resp: 192

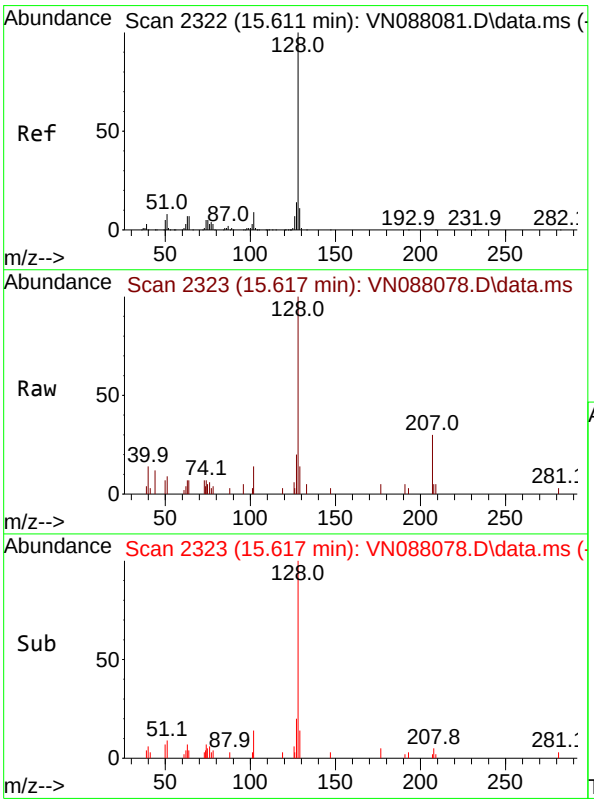
Ion	Ratio	Lower	Upper
225	100		
223	66.8	32.0	96.2
227	61.3	32.1	96.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

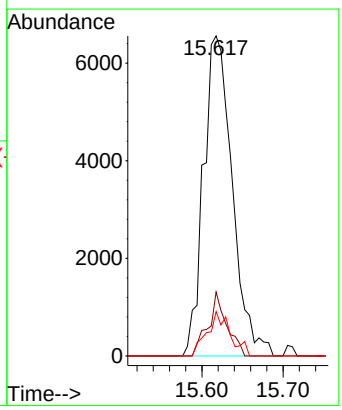
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

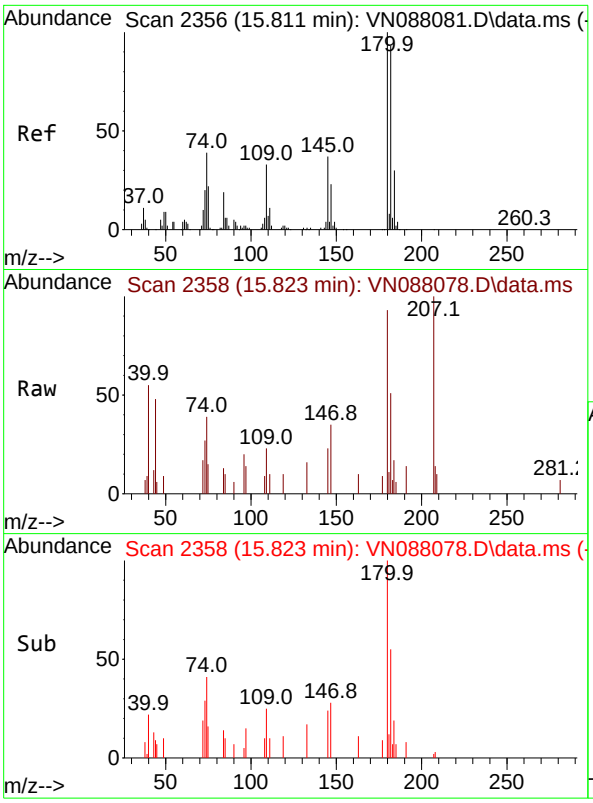


#95
Naphthalene
Concen: 1.039 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:128 Resp: 16137

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	11.1	8.6	12.8

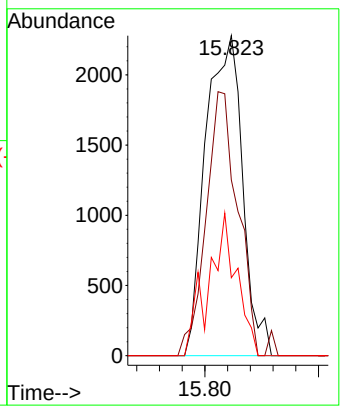




#96
1,2,3-Trichlorobenzene
Concen: 1.182 ug/l
RT: 15.823 min Scan# 2
Delta R.T. 0.012 min
Lab File: VN088078.D
Acq: 23 Oct 2025 09:42

Tgt Ion:180 Resp: 513

Ion	Ratio	Lower	Upper
180	100		
182	70.8	46.8	140.3
145	34.4	17.3	52.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088079.D
Acq On : 23 Oct 2025 10:38
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Quant Time: Oct 24 02:51:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:50:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	8.206	168	296128	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	9.082	114	570271	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.841	117	502295	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	241248	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.559	65	27065	5.285	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 10.580%#				
35) Dibromofluoromethane	8.147	113	19551	5.103	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 10.200%#				
50) Toluene-d8	10.547	98	73162	4.956	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 9.920%#				
62) 4-Bromofluorobenzene	12.835	95	24787	4.755	ug/l		0.01
Spiked Amount 50.000	Range 77 - 121		Recovery = 9.500%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.142	85	19109	5.721	ug/l		91
3) Chloromethane	2.383	50	20946	5.330	ug/l		100
4) Vinyl Chloride	2.536	62	23220	5.423	ug/l		96
5) Bromomethane	2.971	94	15617	6.098	ug/l	#	80
6) Chloroethane	3.142	64	17800	5.770	ug/l	#	84
7) Trichlorofluoromethane	3.506	101	39012	5.713	ug/l		98
8) Diethyl Ether	3.959	74	14837	5.846	ug/l		91
9) 1,1,2-Trichlorotrifluo...	4.377	101	18719	5.312	ug/l		94
10) Methyl Iodide	4.589	142	12726	7.564	ug/l		91
11) Tert butyl alcohol	5.524	59	24255	27.494	ug/l	#	89
12) 1,1-Dichloroethene	4.342	96	20326	5.461	ug/l		88
13) Acrolein	4.171	56	29003	29.228	ug/l		93
14) Allyl chloride	5.012	41	34031	5.232	ug/l		99
15) Acrylonitrile	5.706	53	62612	26.056	ug/l		98
16) Acetone	4.430	43	65332	25.396	ug/l		99
17) Carbon Disulfide	4.706	76	60437	5.342	ug/l		97
18) Methyl Acetate	5.024	43	26935	5.114	ug/l		99
19) Methyl tert-butyl Ether	5.789	73	73958	5.411	ug/l		97
20) Methylene Chloride	5.265	84	22926	6.410	ug/l		97
21) trans-1,2-Dichloroethene	5.783	96	21204	5.152	ug/l		86
22) Diisopropyl ether	6.665	45	72852	5.310	ug/l		100
23) Vinyl Acetate	6.588	43	331195	26.799	ug/l		100
24) 1,1-Dichloroethane	6.547	63	42391	5.578	ug/l		96
25) 2-Butanone	7.477	43	91150	27.166	ug/l		95
26) 2,2-Dichloropropane	7.477	77	36306	5.257	ug/l		97
27) cis-1,2-Dichloroethene	7.471	96	26415	5.616	ug/l		96
28) Bromochloromethane	7.794	49	19805	5.515	ug/l		96
29) Tetrahydrofuran	7.824	42	56989	25.793	ug/l		99
30) Chloroform	7.947	83	42443	5.590	ug/l		97
31) Cyclohexane	8.241	56	44056	6.146	ug/l		95
32) 1,1,1-Trichloroethane	8.147	97	36411	5.384	ug/l	#	85
36) 1,1-Dichloropropene	8.353	75	29318	5.241	ug/l		96
37) Ethyl Acetate	7.547	43	37387	5.201	ug/l	#	94
38) Carbon Tetrachloride	8.347	117	29915	5.178	ug/l		93
39) Methylcyclohexane	9.582	83	37009	5.147	ug/l		96
40) Benzene	8.588	78	89925	5.279	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088079.D
Acq On : 23 Oct 2025 10:38
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Quant Time: Oct 24 02:51:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:50:29 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	7.771	41	19516	5.137 ug/l	93
42) 1,2-Dichloroethane	8.653	62	32612	5.388 ug/l	99
43) Isopropyl Acetate	8.671	43	57498	5.184 ug/l	97
44) Trichloroethene	9.335	130	21346	5.361 ug/l	86
45) 1,2-Dichloropropane	9.594	63	23273	5.411 ug/l	95
46) Dibromomethane	9.682	93	17012	5.546 ug/l	95
47) Bromodichloromethane	9.865	83	32518	5.295 ug/l	91
48) Methyl methacrylate	9.665	41	24475	4.645 ug/l	92
49) 1,4-Dioxane	9.688	88	6763	106.179 ug/l #	95
51) 4-Methyl-2-Pentanone	10.424	43	170979	26.055 ug/l	98
52) Toluene	10.606	92	54632	5.201 ug/l	98
53) t-1,3-Dichloropropene	10.818	75	32833	5.023 ug/l	96
54) cis-1,3-Dichloropropene	10.288	75	35495	5.118 ug/l	94
55) 1,1,2-Trichloroethane	10.994	97	19869	4.986 ug/l	92
56) Ethyl methacrylate	10.859	69	29566	4.695 ug/l	97
57) 1,3-Dichloropropane	11.141	76	36892	5.267 ug/l	97
58) 2-Chloroethyl Vinyl ether	10.141	63	78095	23.808 ug/l	99
59) 2-Hexanone	11.182	43	94577	21.954 ug/l	97
60) Dibromochloromethane	11.335	129	22347	4.934 ug/l	99
61) 1,2-Dibromoethane	11.447	107	20284	4.946 ug/l	96
64) Tetrachloroethene	11.082	164	17289	5.218 ug/l	88
65) Chlorobenzene	11.870	112	60700	5.322 ug/l	90
66) 1,1,1,2-Tetrachloroethane	11.941	131	19321	5.171 ug/l	95
67) Ethyl Benzene	11.941	91	103756	5.183 ug/l	98
68) m/p-Xylenes	12.047	106	77736	10.363 ug/l	92
69) o-Xylene	12.382	106	37251	5.239 ug/l	98
70) Styrene	12.394	104	60467	5.215 ug/l	98
71) Bromoform	12.559	173	13744	4.929 ug/l #	92
73) Isopropylbenzene	12.676	105	93056	5.001 ug/l	100
74) N-amyl acetate	12.865	43	22461m	4.171 ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	30348	5.239 ug/l	98
76) 1,2,3-Trichloropropane	12.976	75	32601m	6.313 ug/l	
77) Bromobenzene	12.959	156	20721	5.164 ug/l	82
78) n-propylbenzene	13.012	91	117114	5.158 ug/l	98
79) 2-Chlorotoluene	13.106	91	68350	5.278 ug/l	98
80) 1,3,5-Trimethylbenzene	13.153	105	78511	5.081 ug/l	95
81) trans-1,4-Dichloro-2-b...	12.723	75	10183m	5.137 ug/l	
82) 4-Chlorotoluene	13.200	91	72836	5.199 ug/l	100
83) tert-Butylbenzene	13.417	119	69371	5.025 ug/l	97
84) 1,2,4-Trimethylbenzene	13.459	105	80008	5.175 ug/l	100
85) sec-Butylbenzene	13.594	105	103097	5.083 ug/l	98
86) p-Isopropyltoluene	13.706	119	85421	5.250 ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	40364	5.039 ug/l	96
88) 1,4-Dichlorobenzene	13.788	146	47112	5.462 ug/l	95
89) n-Butylbenzene	14.035	91	82932	5.146 ug/l	99
90) Hexachloroethane	14.312	117	16391	5.202 ug/l	99
91) 1,2-Dichlorobenzene	14.082	146	39857	5.162 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.694	75	6964	5.165 ug/l	92
93) 1,2,4-Trichlorobenzene	15.370	180	23547	5.036 ug/l	99
94) Hexachlorobutadiene	15.476	225	9028	5.185 ug/l	97
95) Naphthalene	15.617	128	75031	4.684 ug/l	99
96) 1,2,3-Trichlorobenzene	15.817	180	21577	4.812 ug/l	94

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088079.D
Acq On : 23 Oct 2025 10:38
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 24 02:51:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:50:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

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

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

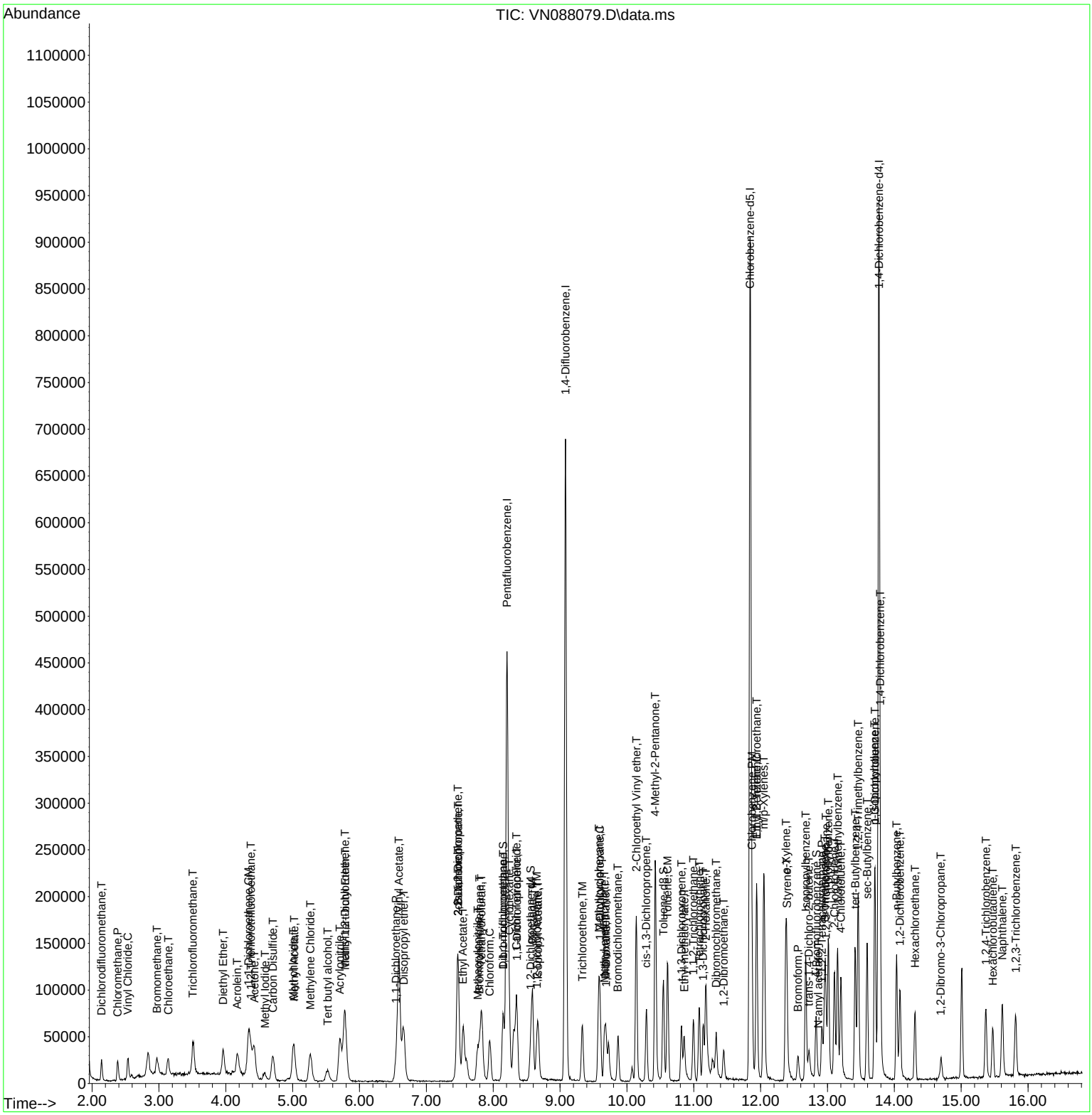
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Acq On : 23 Oct 2025 10:38
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

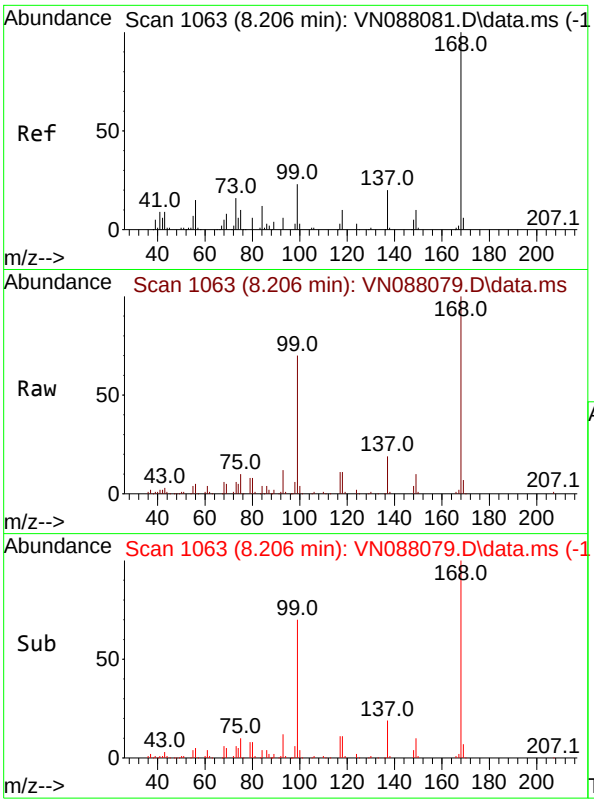
Quant Time: Oct 24 02:51:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:50:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

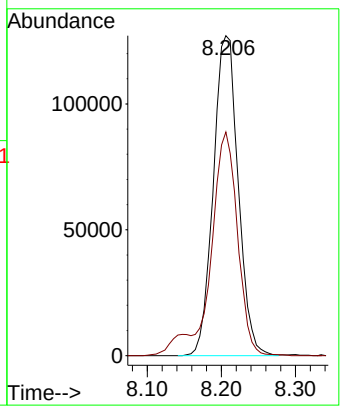




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:168 Resp: 29612

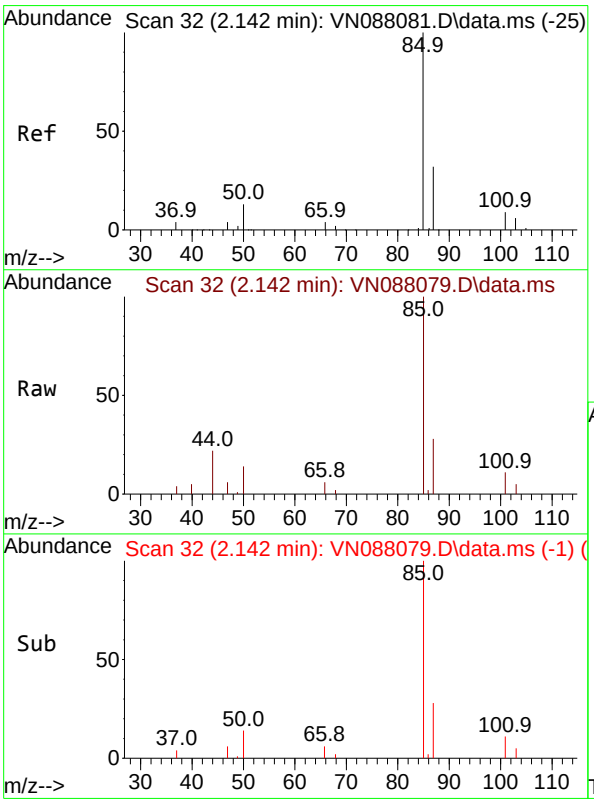
Ion	Ratio	Lower	Upper
168	100		
99	69.6	57.2	85.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

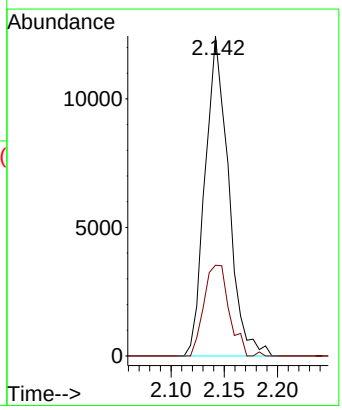
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

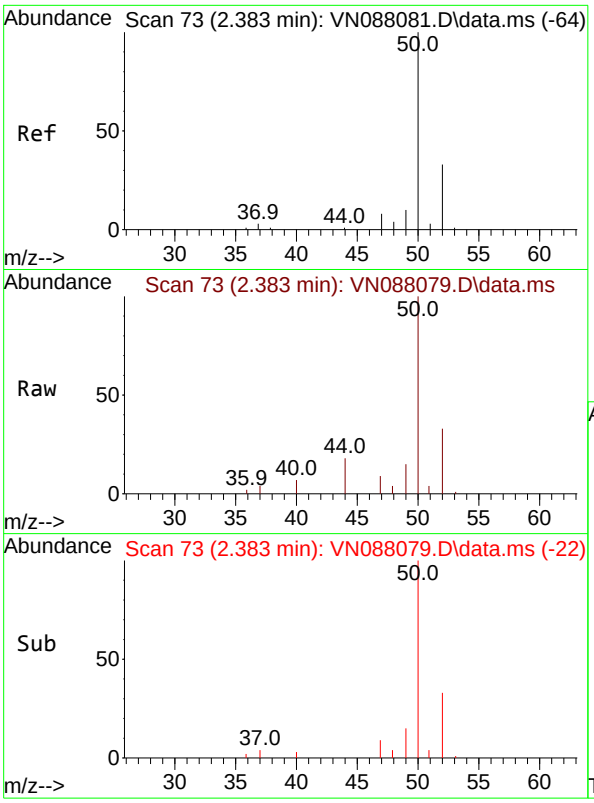


#2
Dichlorodifluoromethane
Concen: 5.721 ug/l
RT: 2.142 min Scan# 32
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 85 Resp: 19109

Ion	Ratio	Lower	Upper
85	100		
87	28.3	16.6	49.8

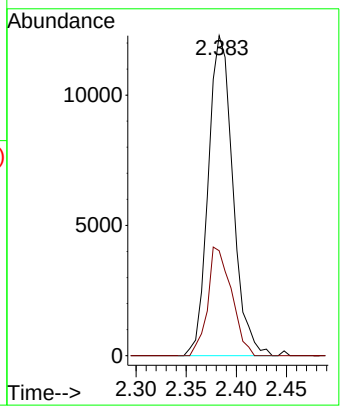




#3
Chloromethane
Concen: 5.330 ug/l
RT: 2.383 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 50 Resp: 2094

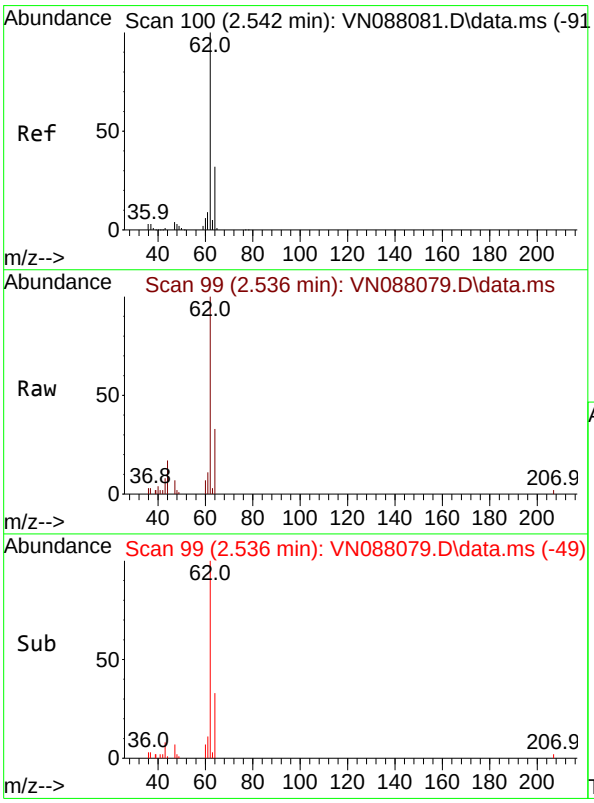
Ion	Ratio	Lower	Upper
50	100		
52	32.8	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

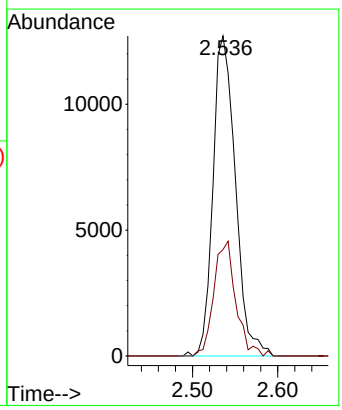
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

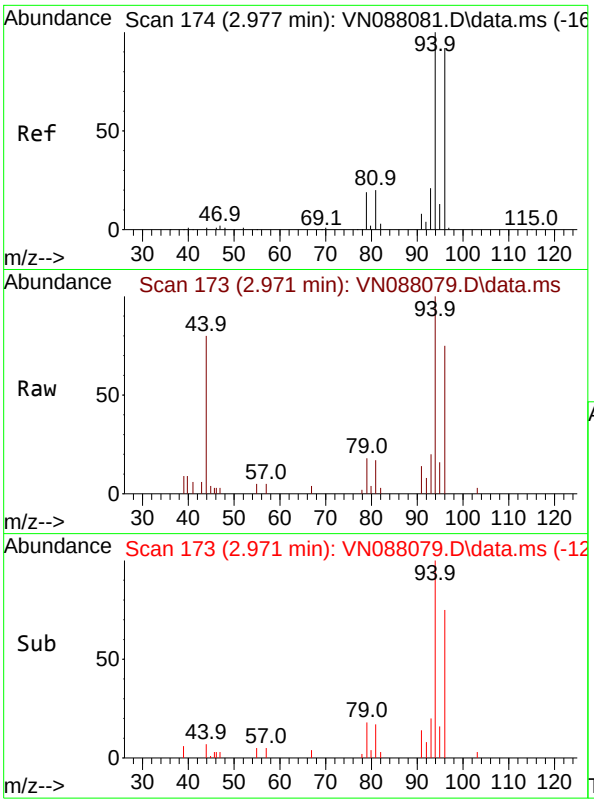


#4
Vinyl Chloride
Concen: 5.423 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 62 Resp: 23220

Ion	Ratio	Lower	Upper
62	100		
64	33.2	24.6	37.0

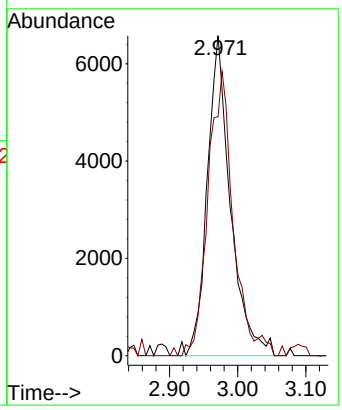




#5
Bromomethane
Concen: 6.098 ug/l
RT: 2.971 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 94 Resp: 1561

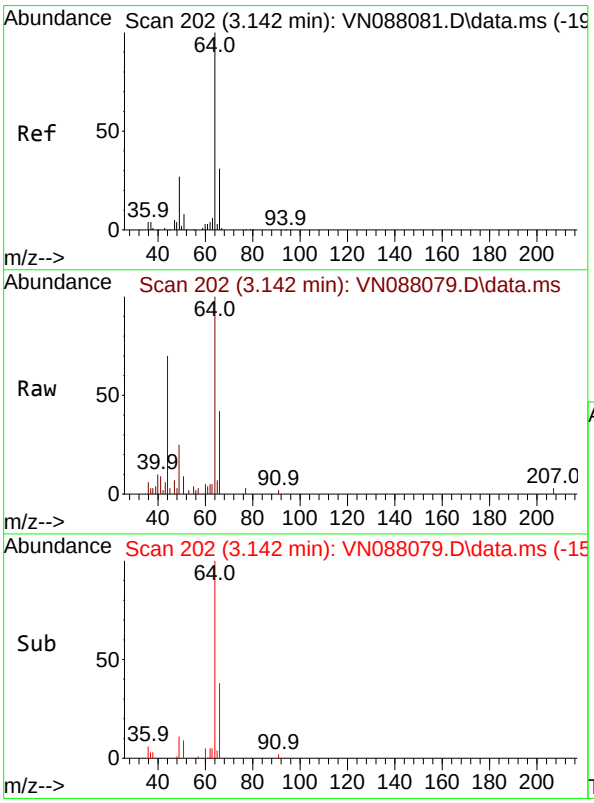
Ion	Ratio	Lower	Upper
94	100		
96	74.7	75.4	113.2#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

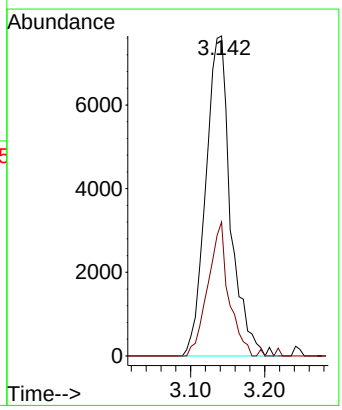
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

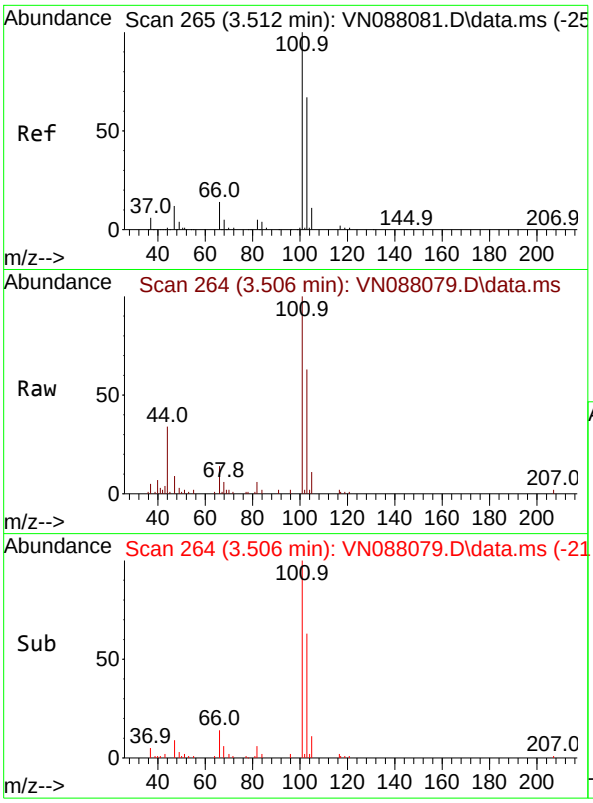


#6
Chloroethane
Concen: 5.770 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 64 Resp: 17800

Ion	Ratio	Lower	Upper
64	100		
66	41.8	26.2	39.2#

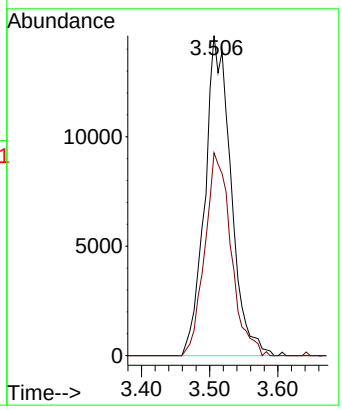




#7
Trichlorofluoromethane
Concen: 5.713 ug/l
RT: 3.506 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:101 Resp: 3901

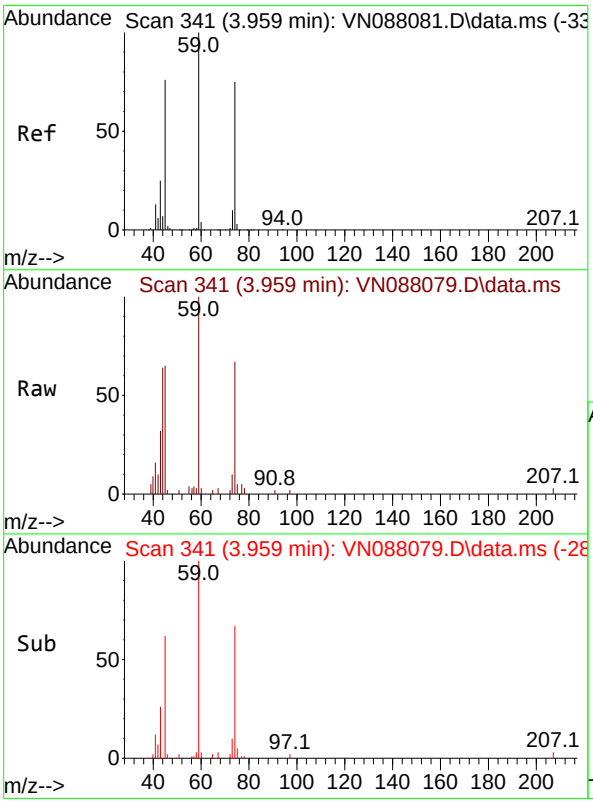
Ion	Ratio	Lower	Upper
101	100		
103	63.4	49.4	74.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

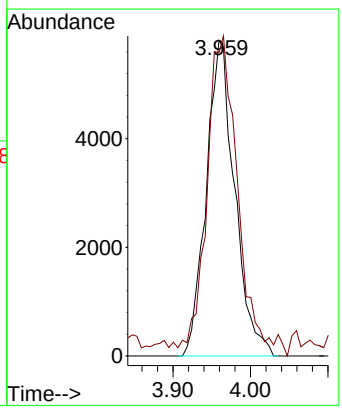
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

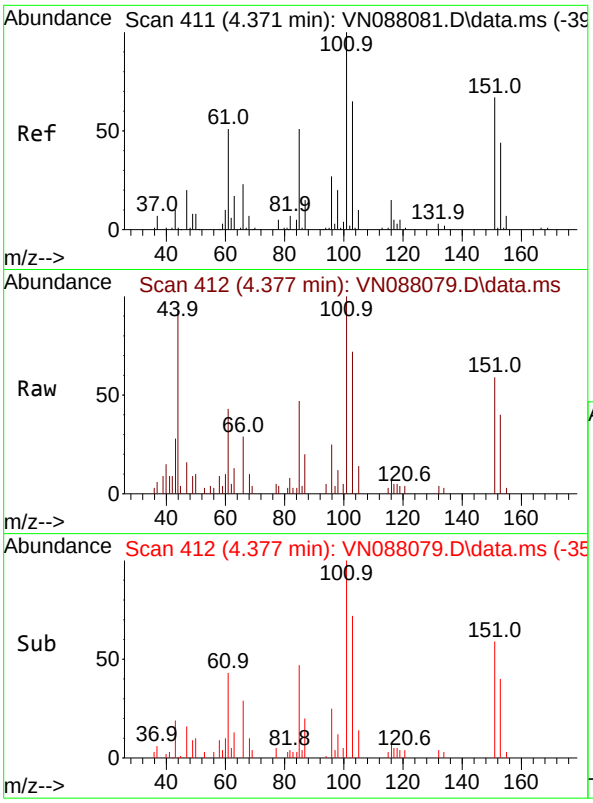


#8
Diethyl Ether
Concen: 5.846 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 74 Resp: 14837

Ion	Ratio	Lower	Upper
74	100		
45	110.6	50.6	151.9





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.312 ug/l
RT: 4.377 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

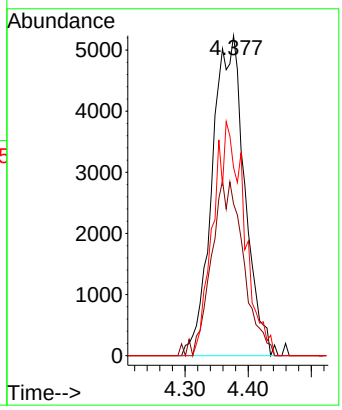
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

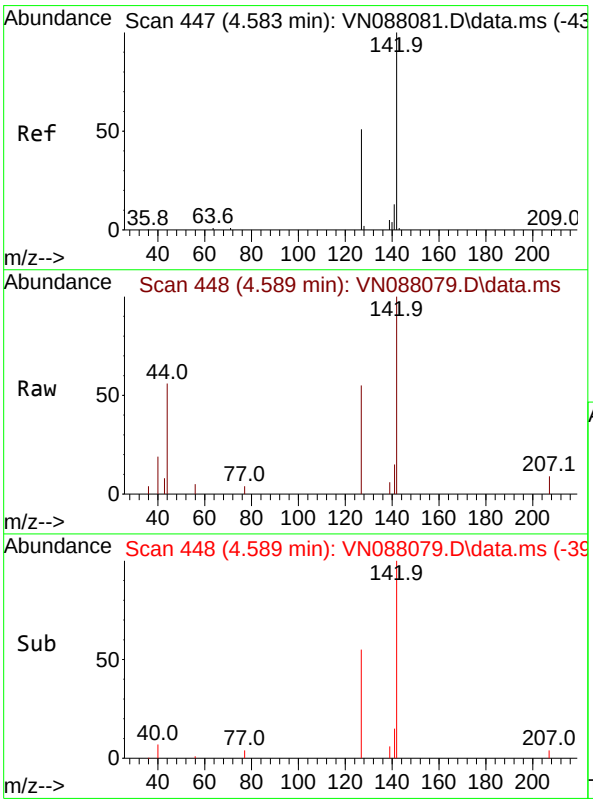
Tgt Ion:101 Resp: 1871

Ion	Ratio	Lower	Upper
101	100		
85	54.2	36.6	55.0
151	70.1	54.7	82.1

Manual Integrations
APPROVED

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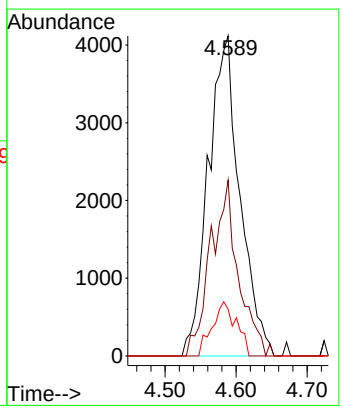


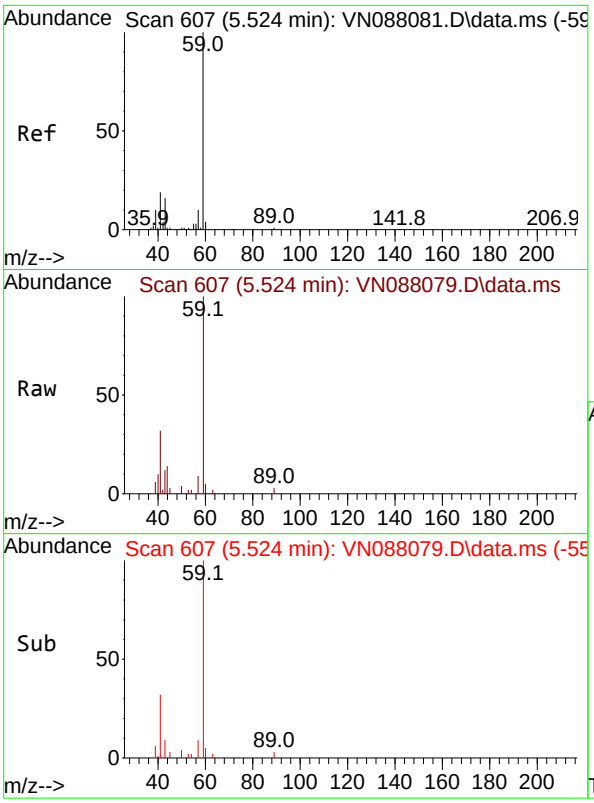


#10
Methyl Iodide
Concen: 7.564 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.012 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:142 Resp: 12726

Ion	Ratio	Lower	Upper
142	100		
127	54.9	38.0	57.0
141	14.6	12.0	18.0

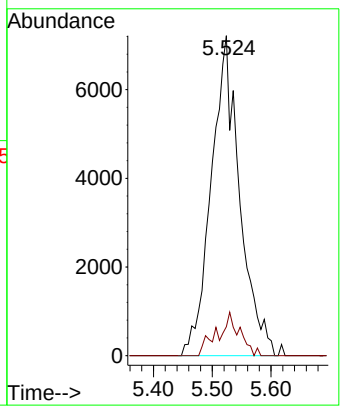




#11
Tert butyl alcohol
Concen: 27.494 ug/l
RT: 5.524 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 59 Resp: 2425

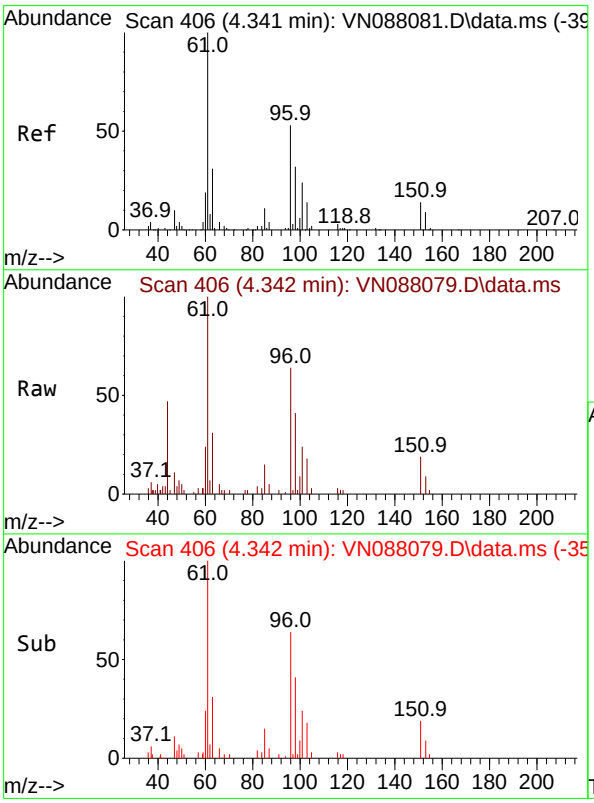
Ion	Ratio	Lower	Upper
59	100		
57	7.2	9.0	13.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

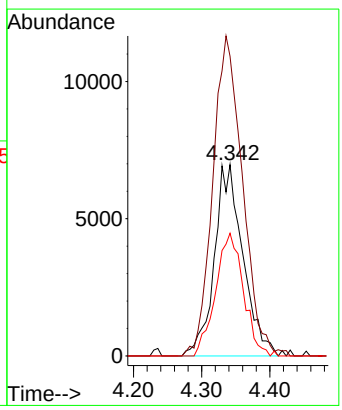
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

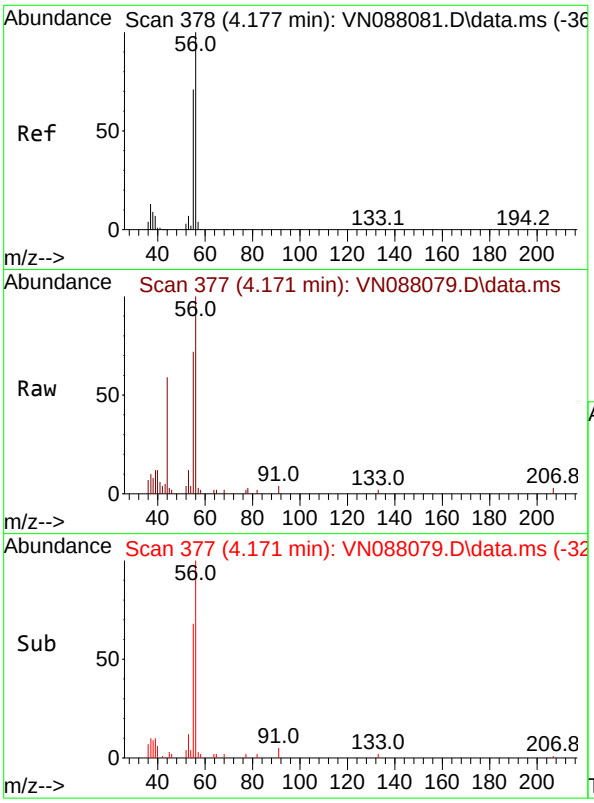


#12
1,1-Dichloroethene
Concen: 5.461 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 96 Resp: 20326

Ion	Ratio	Lower	Upper
96	100		
61	156.7	143.8	215.8
98	64.2	52.1	78.1

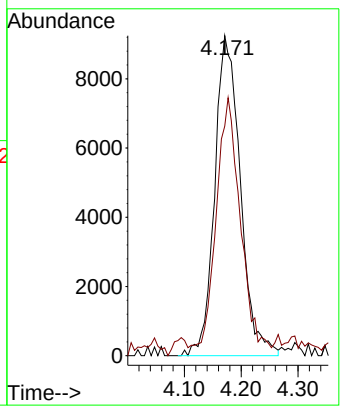




#13
Acrolein
Concen: 29.228 ug/l
RT: 4.171 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 56 Resp: 2900

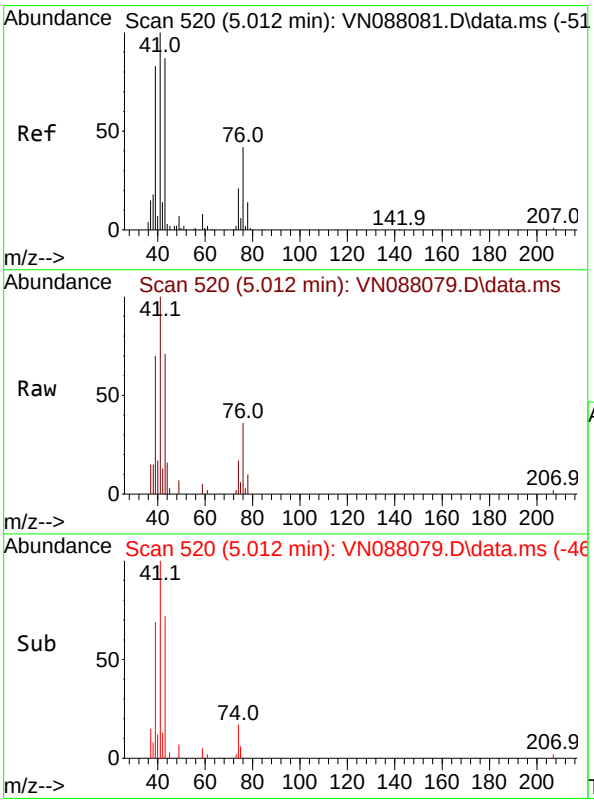
Ion	Ratio	Lower	Upper
56	100		
55	77.2	57.3	85.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

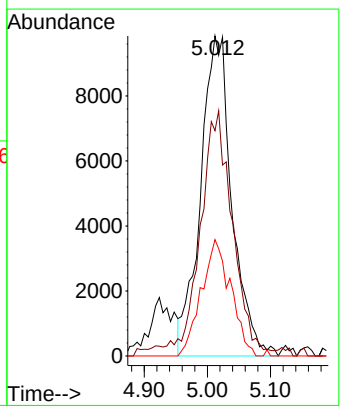
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

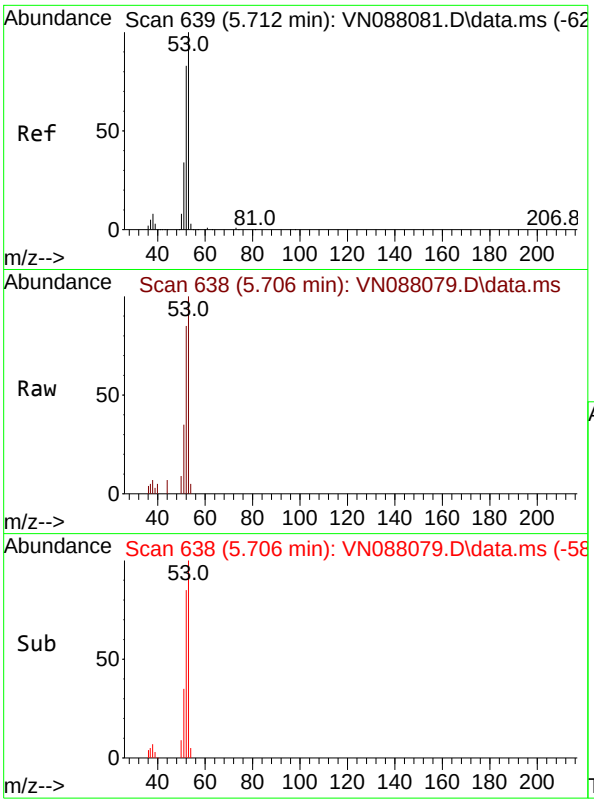


#14
Allyl chloride
Concen: 5.232 ug/l
RT: 5.012 min Scan# 520
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 41 Resp: 34031

Ion	Ratio	Lower	Upper
41	100		
39	80.7	63.9	95.9
76	34.0	28.1	42.1

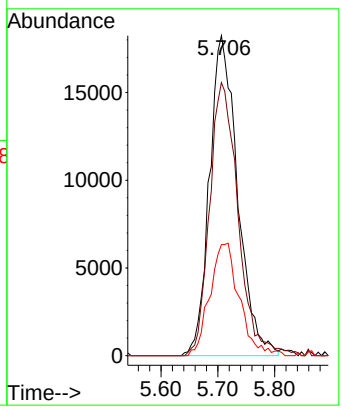




#15
Acrylonitrile
Concen: 26.056 ug/l
RT: 5.706 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 53 Resp: 6261

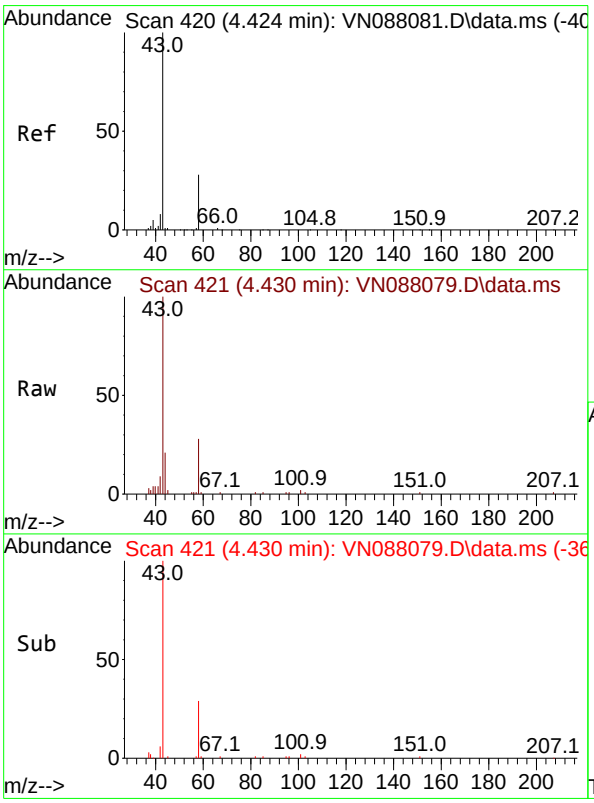
Ion	Ratio	Lower	Upper
53	100		
52	86.6	67.6	101.4
51	36.9	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

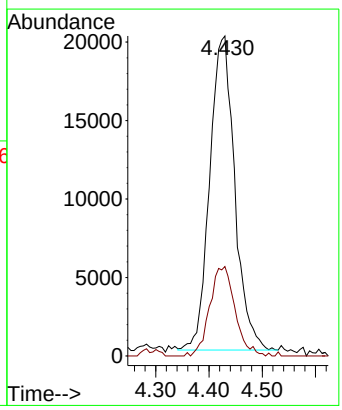
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

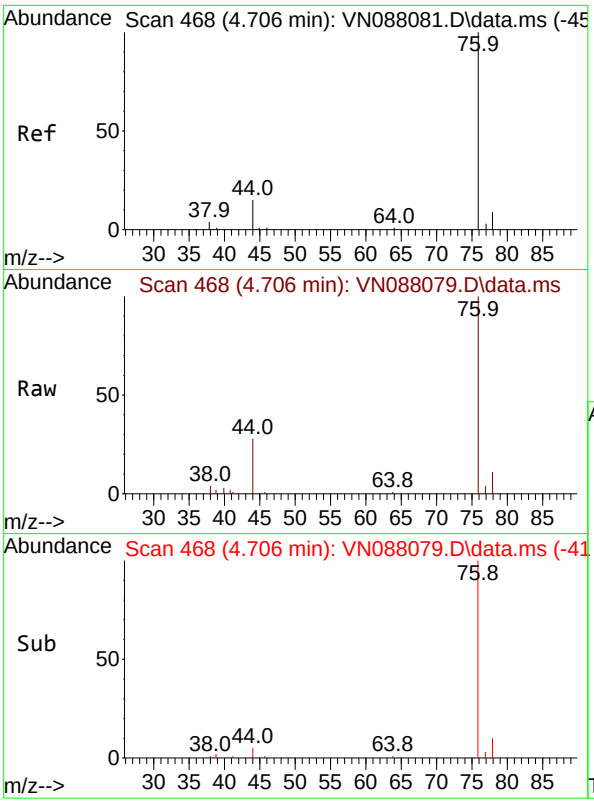


#16
Acetone
Concen: 25.396 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 43 Resp: 65332

Ion	Ratio	Lower	Upper
43	100		
58	28.5	22.6	33.8

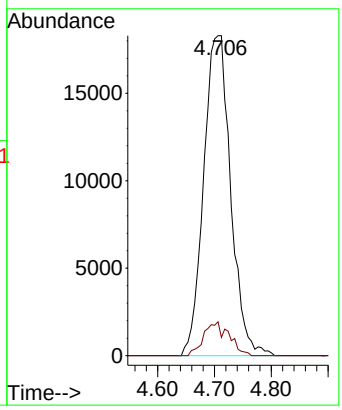




#17
Carbon Disulfide
Concen: 5.342 ug/l
RT: 4.706 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 76 Resp: 6043

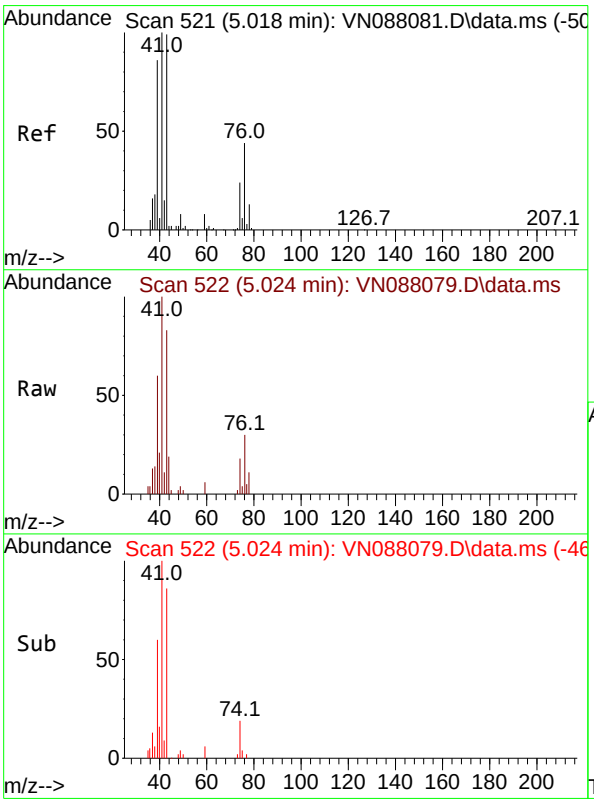
Ion	Ratio	Lower	Upper
76	100		
78	10.6	7.6	11.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

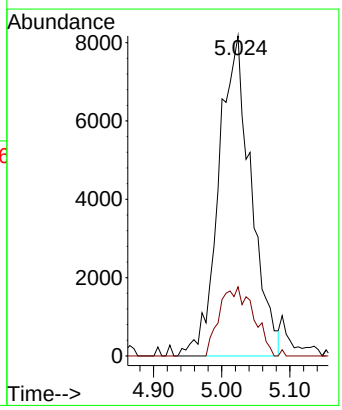
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

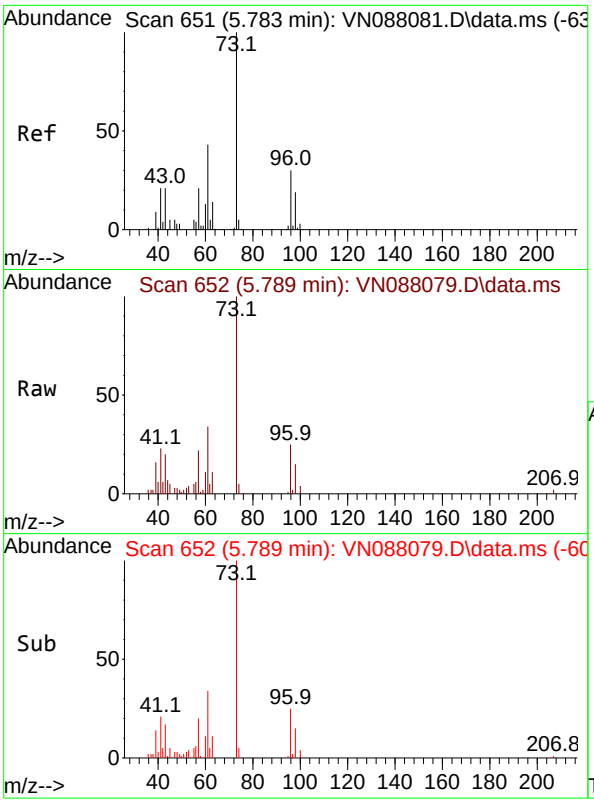


#18
Methyl Acetate
Concen: 5.114 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 43 Resp: 26935

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.6	26.4

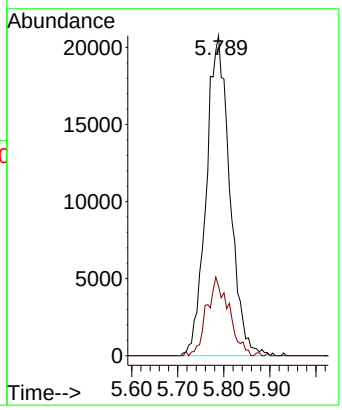




#19
Methyl tert-butyl Ether
Concen: 5.411 ug/l
RT: 5.789 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 73 Resp: 7395

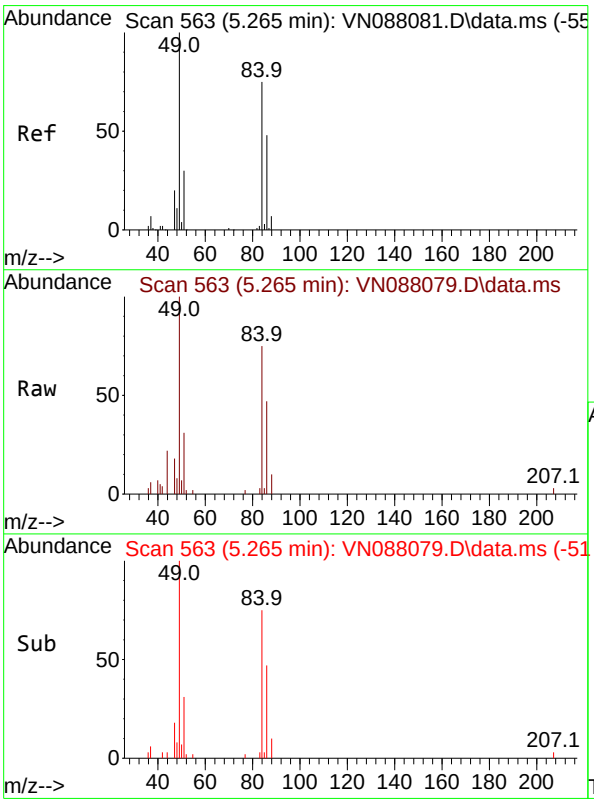
Ion	Ratio	Lower	Upper
73	100		
57	21.7	18.4	27.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

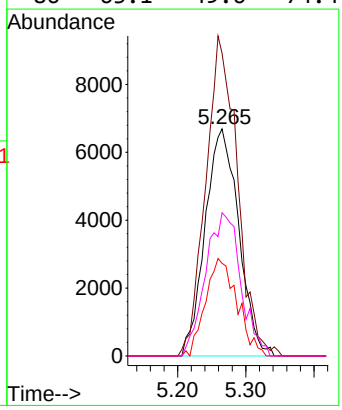
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

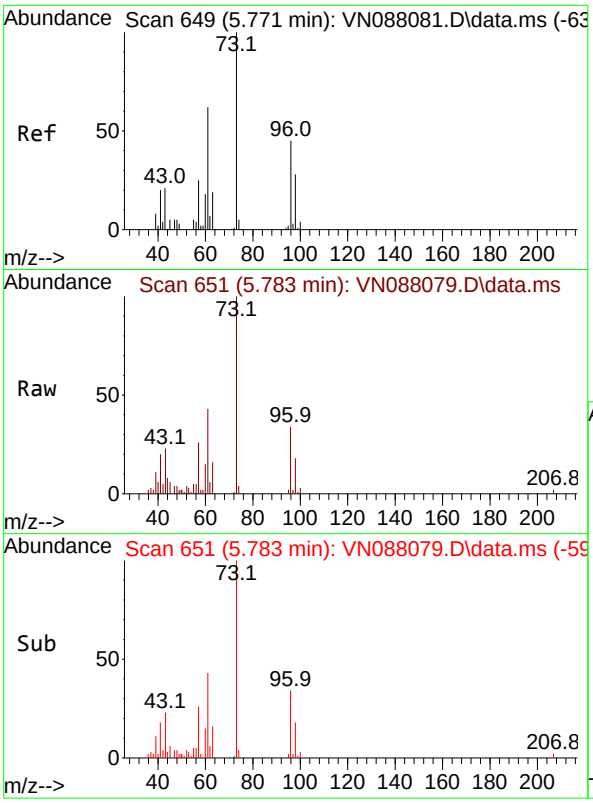


#20
Methylene Chloride
Concen: 6.410 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 84 Resp: 22926

Ion	Ratio	Lower	Upper
84	100		
49	133.4	103.4	155.2
51	40.8	33.8	50.8
86	63.1	49.6	74.4

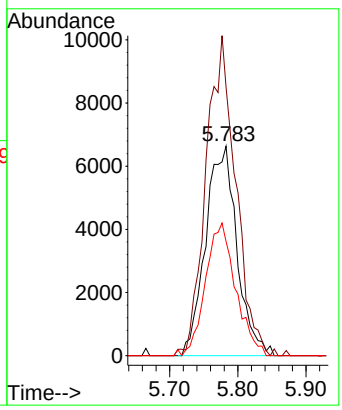




#21
trans-1,2-Dichloroethene
Concen: 5.152 ug/l
RT: 5.783 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 96 Resp: 2120

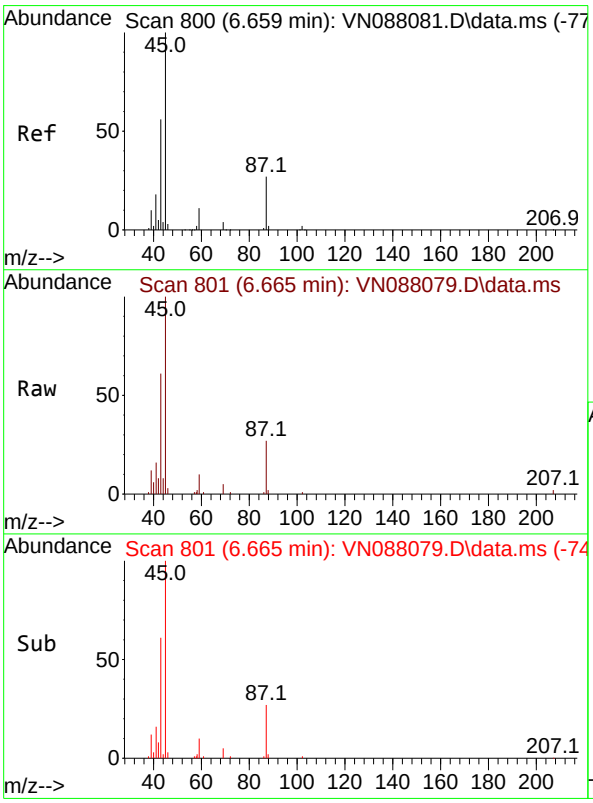
Ion	Ratio	Lower	Upper
96	100		
61	128.4	118.0	177.0
98	54.6	50.0	75.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

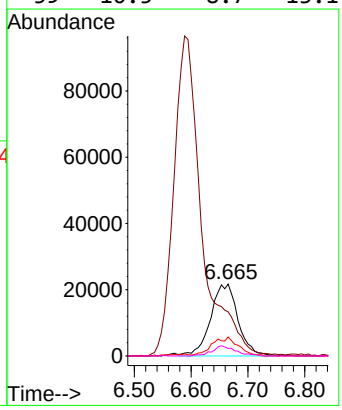
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

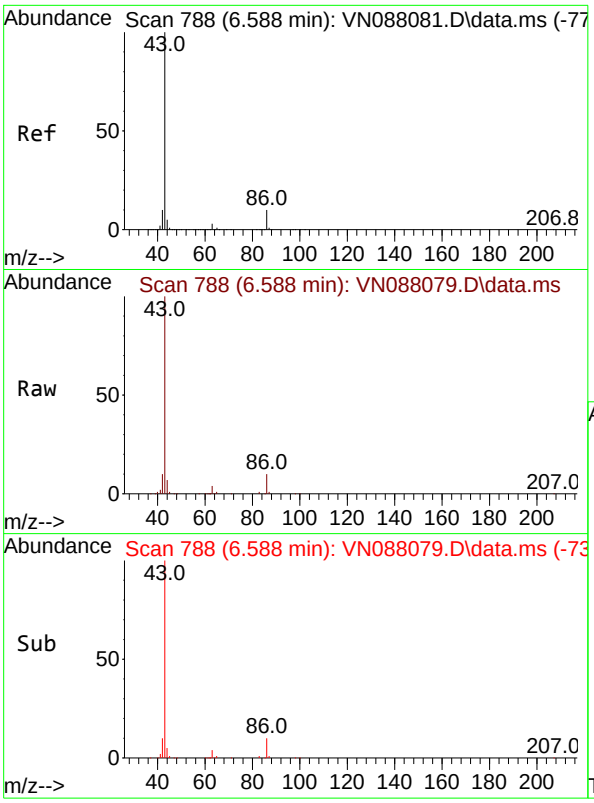


#22
Diisopropyl ether
Concen: 5.310 ug/l
RT: 6.665 min Scan# 801
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 45 Resp: 72852

Ion	Ratio	Lower	Upper
45	100		
43	59.4	47.7	71.5
87	26.6	21.4	32.0
59	10.5	8.7	13.1





#23
Vinyl Acetate
Concen: 26.799 ug/l
RT: 6.588 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

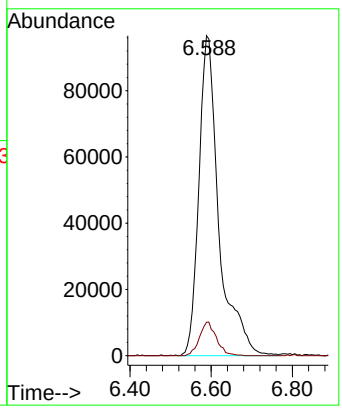
Tgt Ion: 43 Resp: 33119

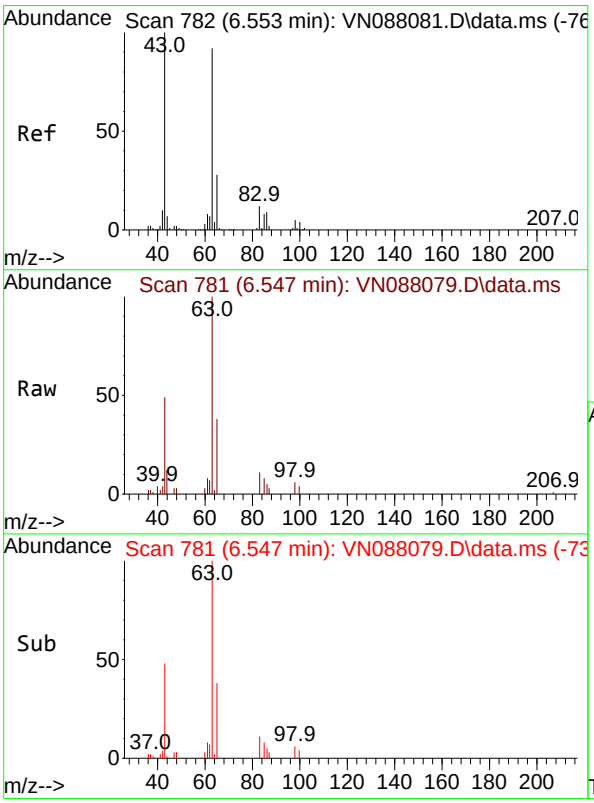
Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.2	12.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

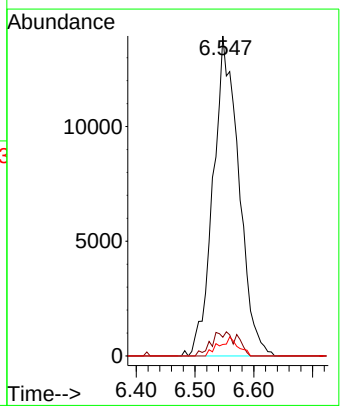


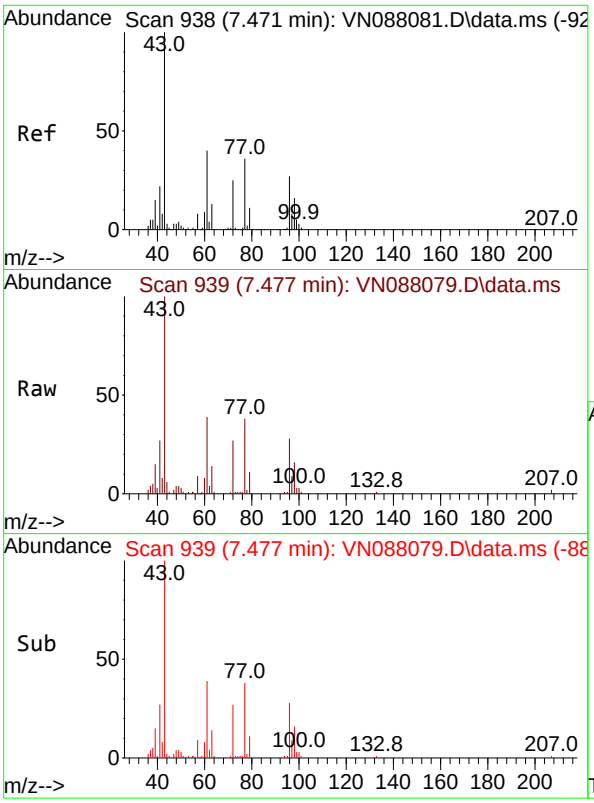


#24
1,1-Dichloroethane
Concen: 5.578 ug/l
RT: 6.547 min Scan# 781
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 63 Resp: 42391

Ion	Ratio	Lower	Upper
63	100		
98	5.9	3.8	11.4
100	3.6	2.0	6.0

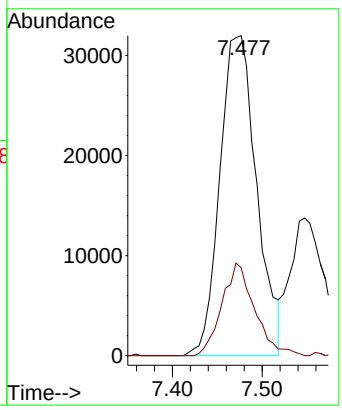




#25
2-Butanone
Concen: 27.166 ug/l
RT: 7.477 min Scan# 9
Delta R.T. 0.012 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 43 Resp: 9115

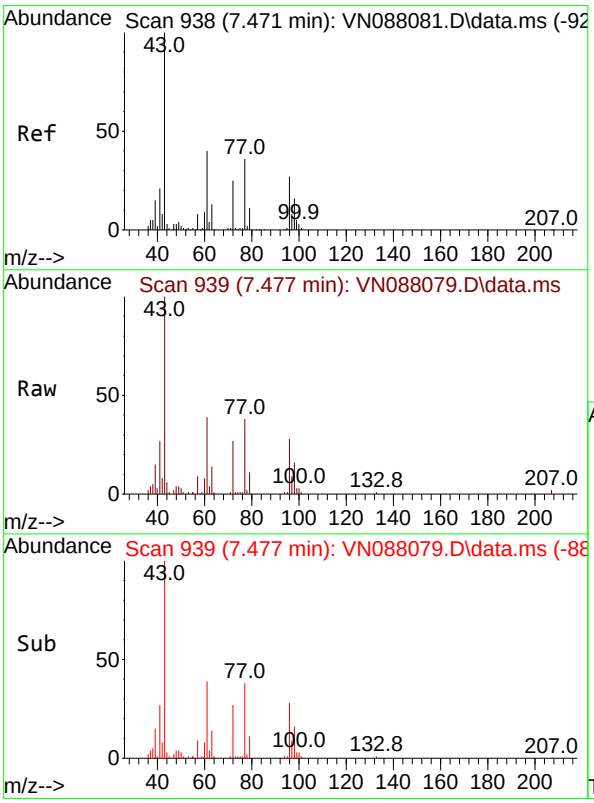
Ion	Ratio	Lower	Upper
43	100		
72	27.4	19.9	29.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

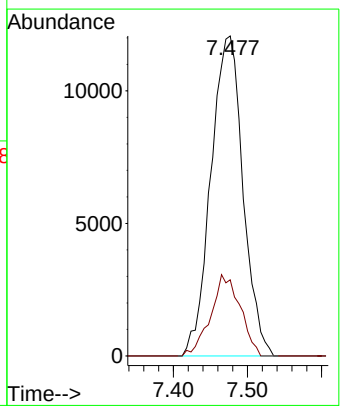
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

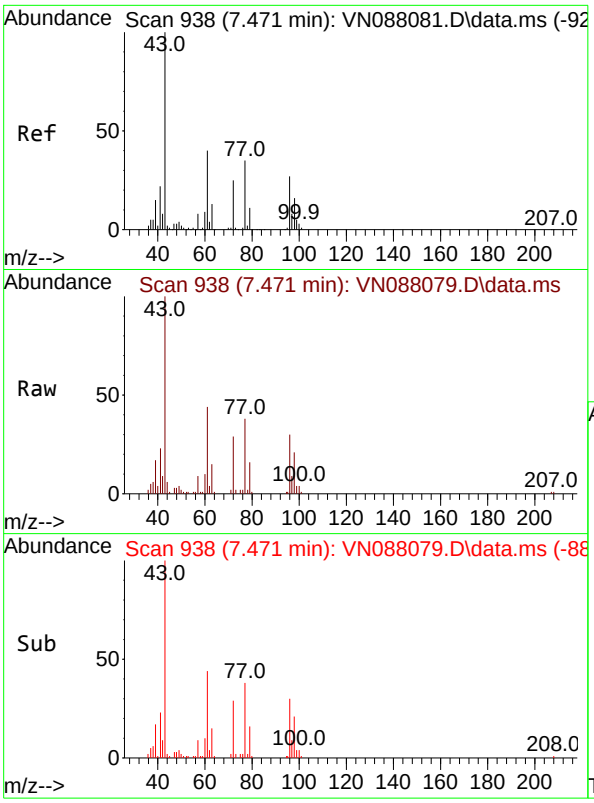


#26
2,2-Dichloropropane
Concen: 5.257 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 77 Resp: 36306

Ion	Ratio	Lower	Upper
77	100		
97	23.3	10.9	32.7

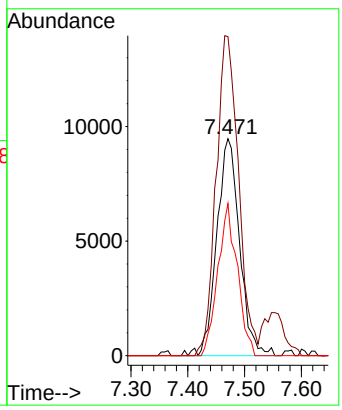




#27
cis-1,2-Dichloroethene
Concen: 5.616 ug/l
RT: 7.471 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 96 Resp: 2641

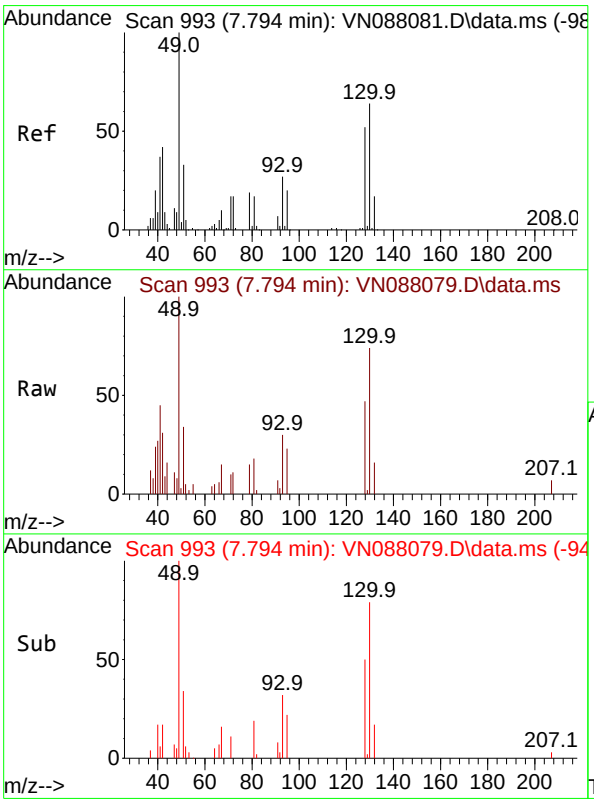
Ion	Ratio	Lower	Upper
96	100		
61	145.0	0.0	301.8
98	59.9	0.0	126.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

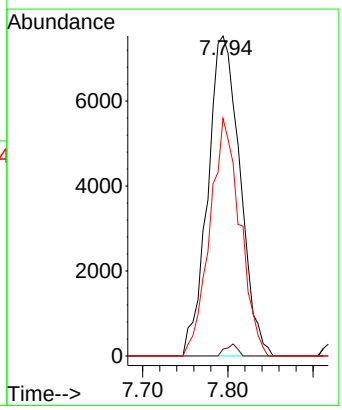
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

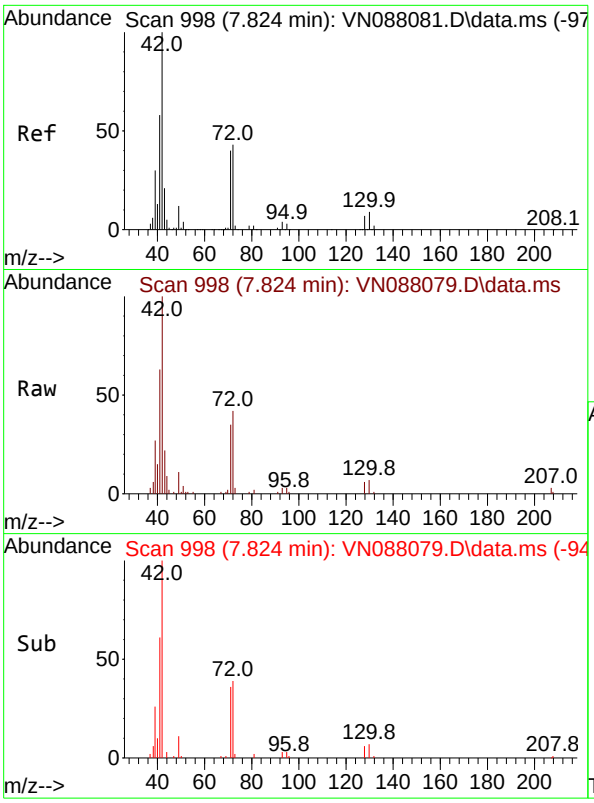


#28
Bromochloromethane
Concen: 5.515 ug/l
RT: 7.794 min Scan# 993
Delta R.T. -0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 49 Resp: 19805

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.0
130	69.5	53.1	79.7

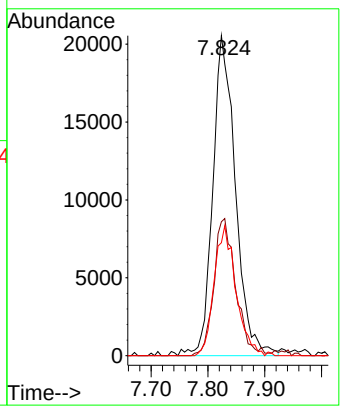




#29
Tetrahydrofuran
Concen: 25.793 ug/l
RT: 7.824 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 42 Resp: 5698

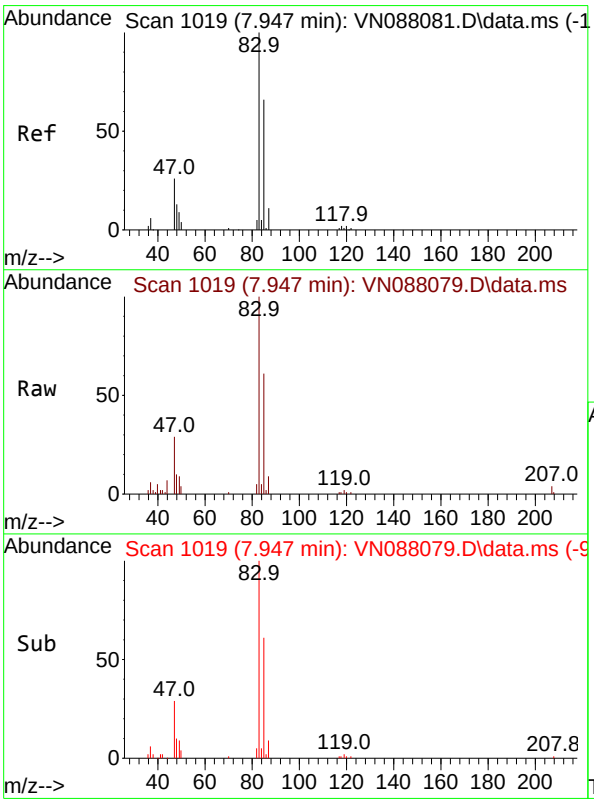
Ion	Ratio	Lower	Upper
42	100		
72	41.4	33.7	50.5
71	38.9	31.9	47.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

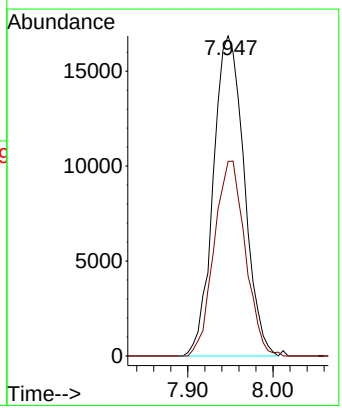
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

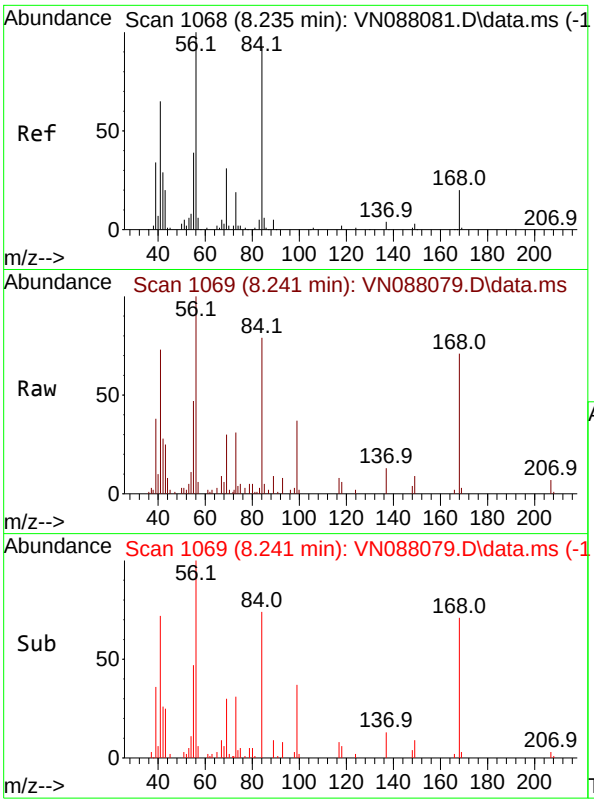


#30
Chloroform
Concen: 5.590 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 83 Resp: 42443

Ion	Ratio	Lower	Upper
83	100		
85	60.8	50.7	76.1

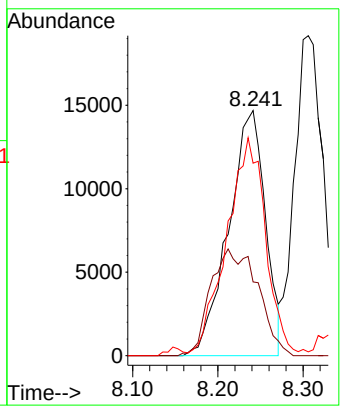




#31
Cyclohexane
Concen: 6.146 ug/l
RT: 8.241 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 56 Resp: 4405

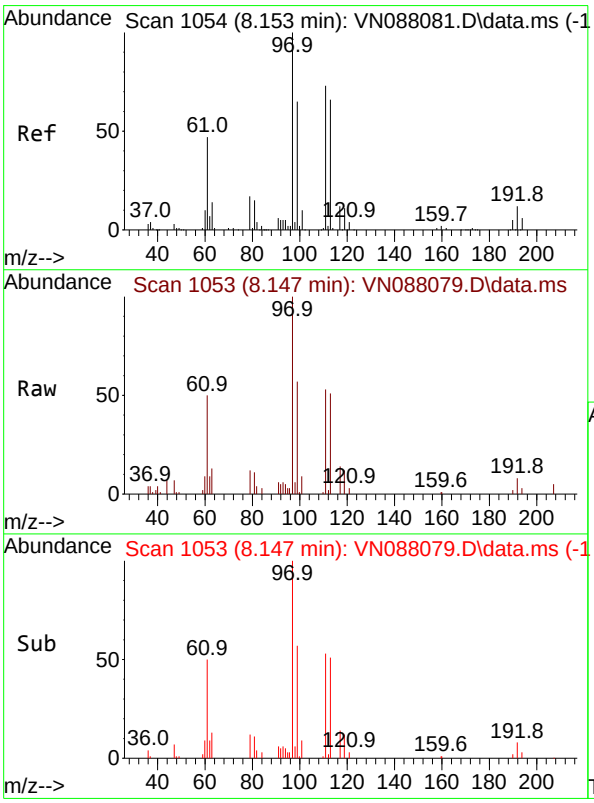
Ion	Ratio	Lower	Upper
56	100		
69	30.1	23.7	35.5
84	75.7	64.7	97.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

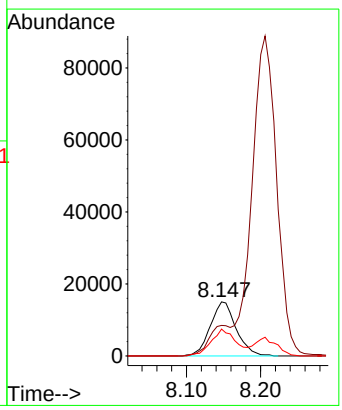
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

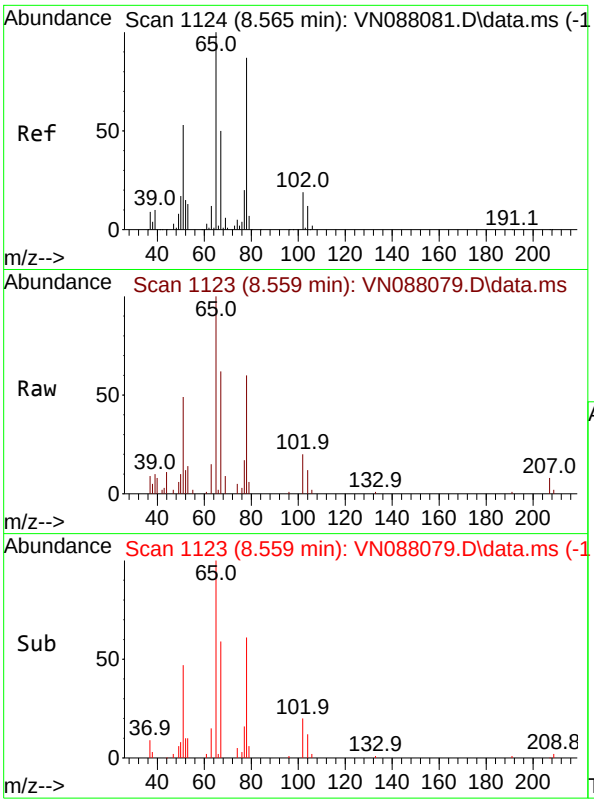


#32
1,1,1-Trichloroethane
Concen: 5.384 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 97 Resp: 36411

Ion	Ratio	Lower	Upper
97	100		
99	47.8	52.2	78.2#
61	47.8	41.2	61.8

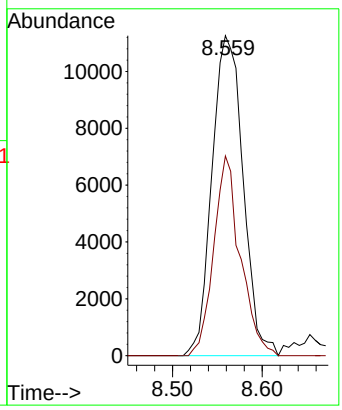




#33
1,2-Dichloroethane-d4
Concen: 5.285 ug/l
RT: 8.559 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 65 Resp: 2706

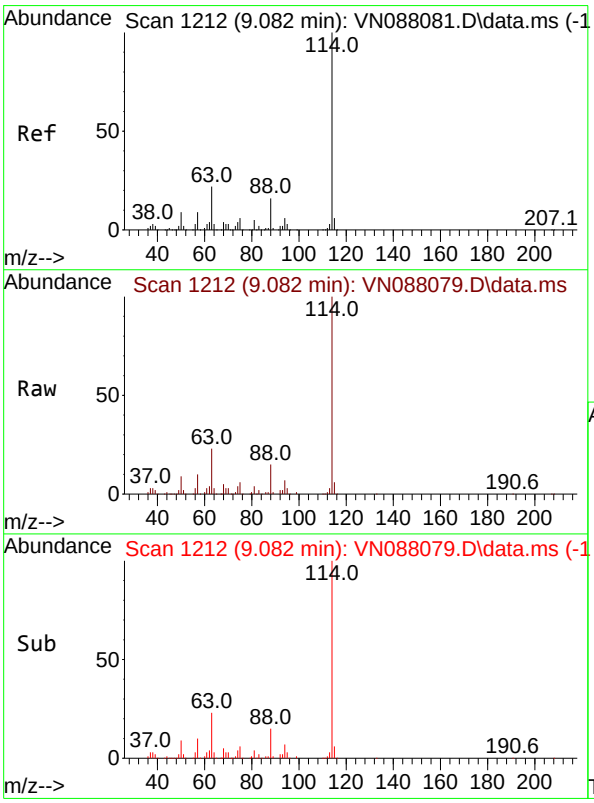
Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	100.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

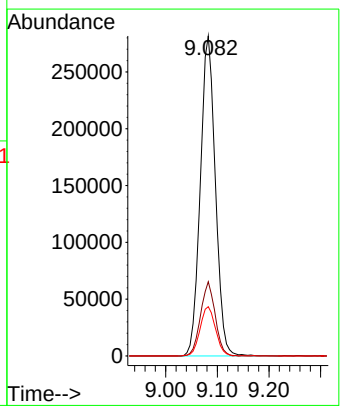
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

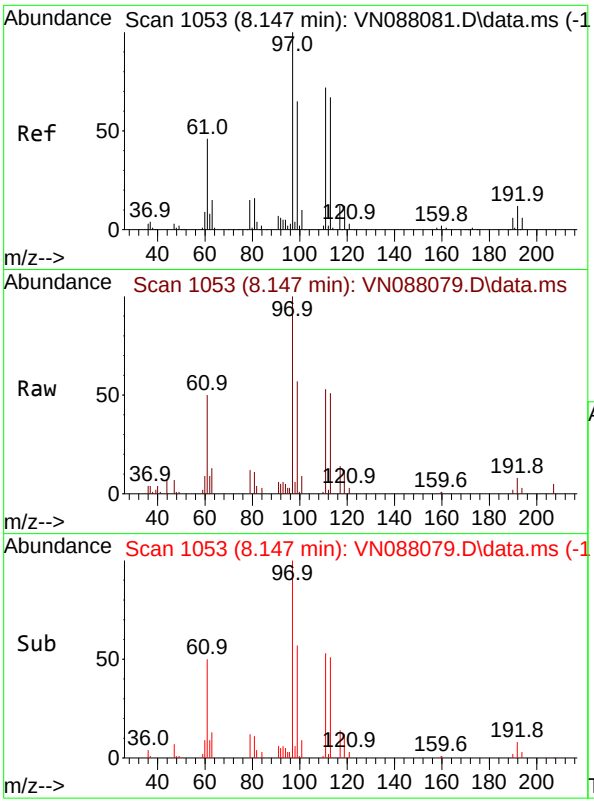


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:114 Resp: 570271

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	45.2
88	15.4	0.0	33.4

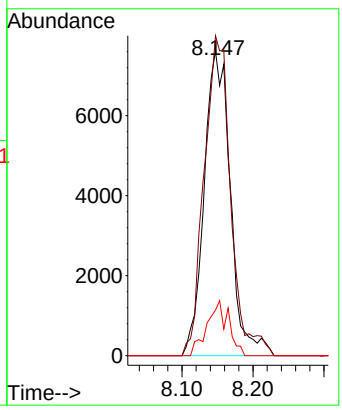




#35
Dibromofluoromethane
Concen: 5.103 ug/l
RT: 8.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:113 Resp: 1955

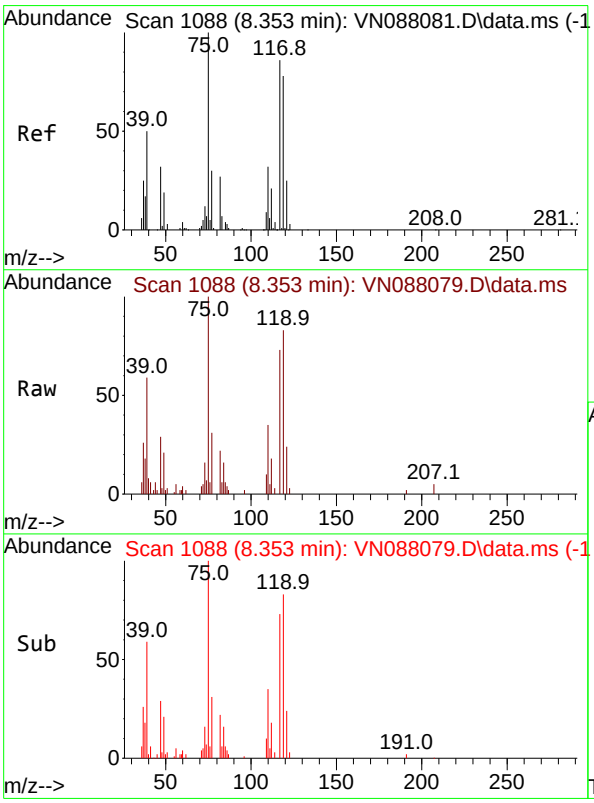
Ion	Ratio	Lower	Upper
113	100		
111	106.1	82.8	124.2
192	14.9	12.8	19.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

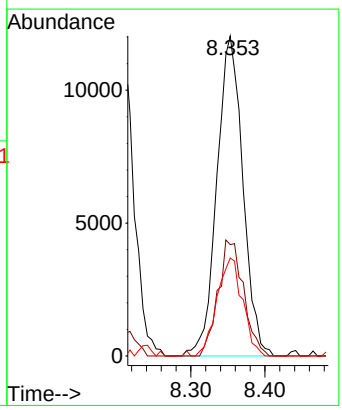
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

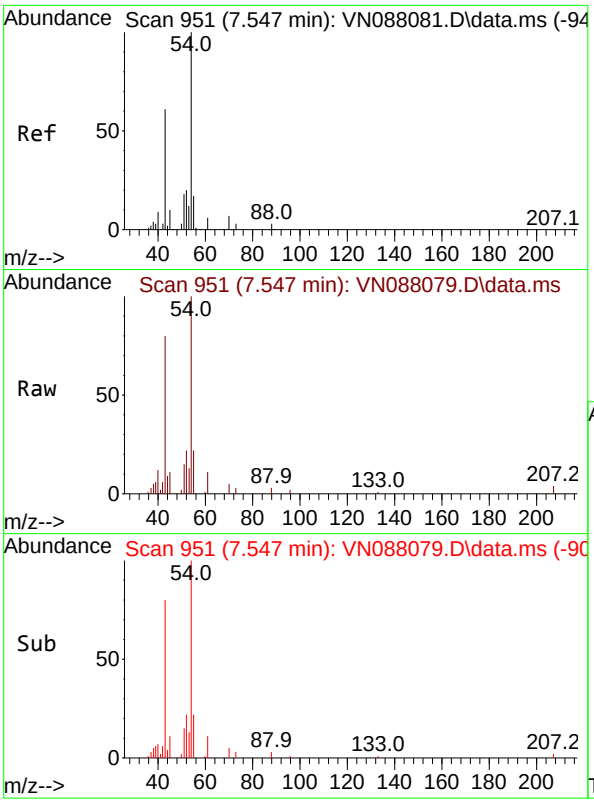


#36
1,1-Dichloropropene
Concen: 5.241 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 75 Resp: 29318

Ion	Ratio	Lower	Upper
75	100		
110	35.5	15.9	47.6
77	30.2	24.4	36.6

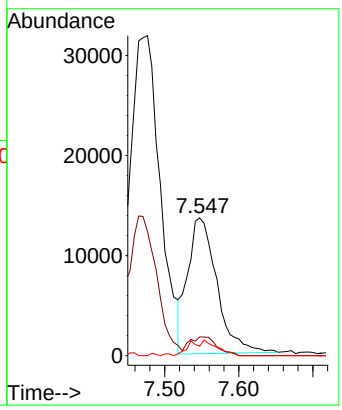




#37
Ethyl Acetate
Concen: 5.201 ug/l
RT: 7.547 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 43 Resp: 3738

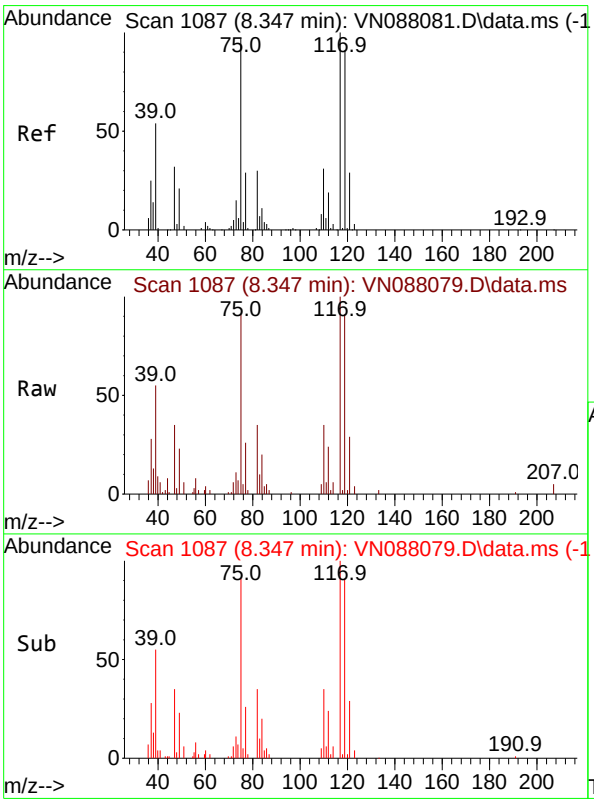
Ion	Ratio	Lower	Upper
43	100		
61	13.0	9.3	13.9
70	5.9	7.0	10.6#



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

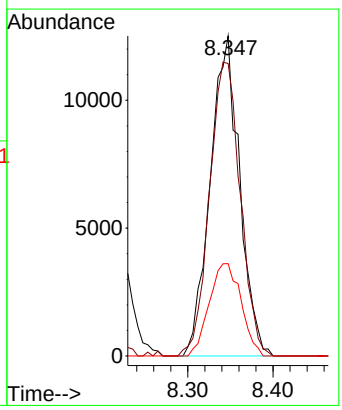
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

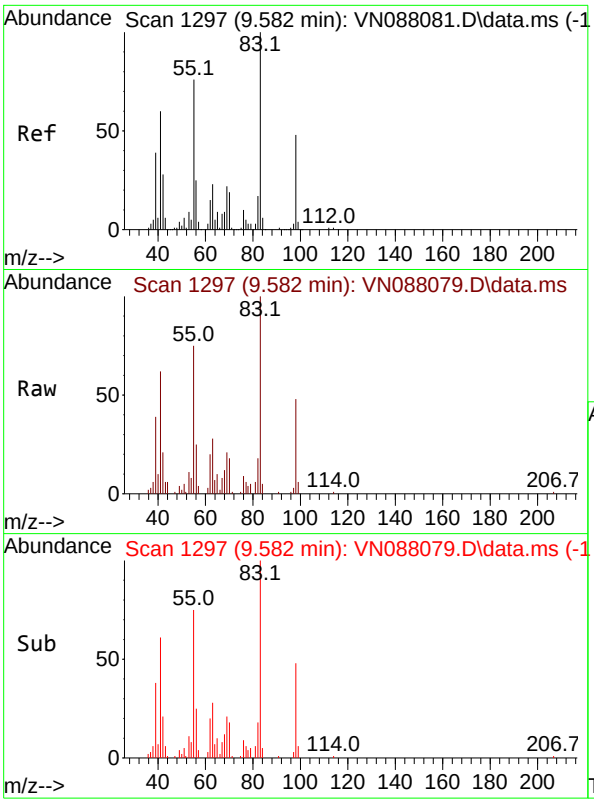


#38
Carbon Tetrachloride
Concen: 5.178 ug/l
RT: 8.347 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:117 Resp: 29915

Ion	Ratio	Lower	Upper
117	100		
119	91.4	79.0	118.6
121	28.9	25.0	37.6





#39
Methylcyclohexane
Concen: 5.147 ug/l
RT: 9.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

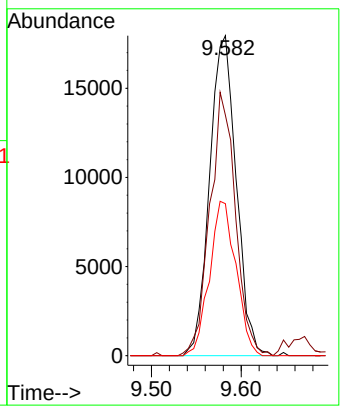
Tgt Ion: 83 Resp: 3700

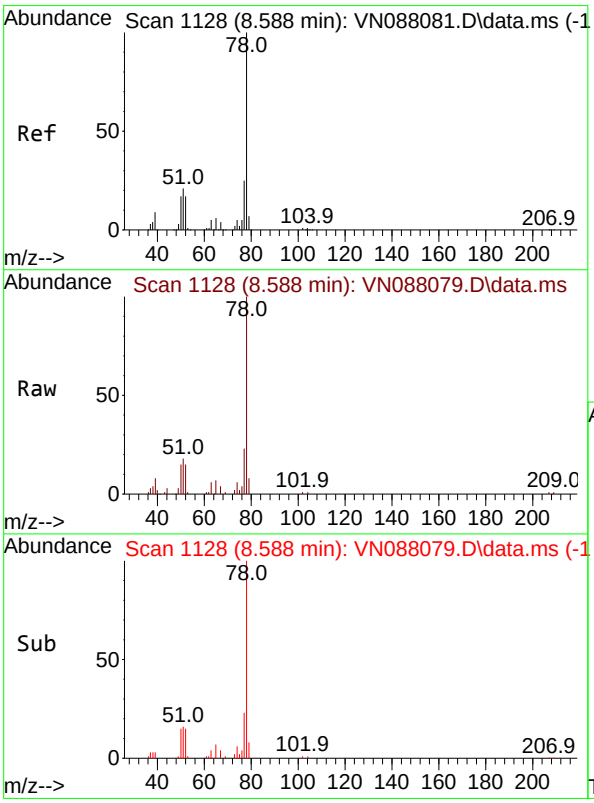
Ion	Ratio	Lower	Upper
83	100		
55	75.2	64.6	96.8
98	47.5	38.4	57.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

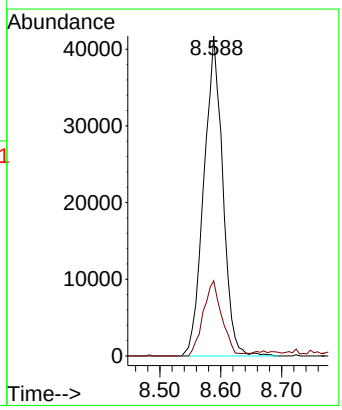


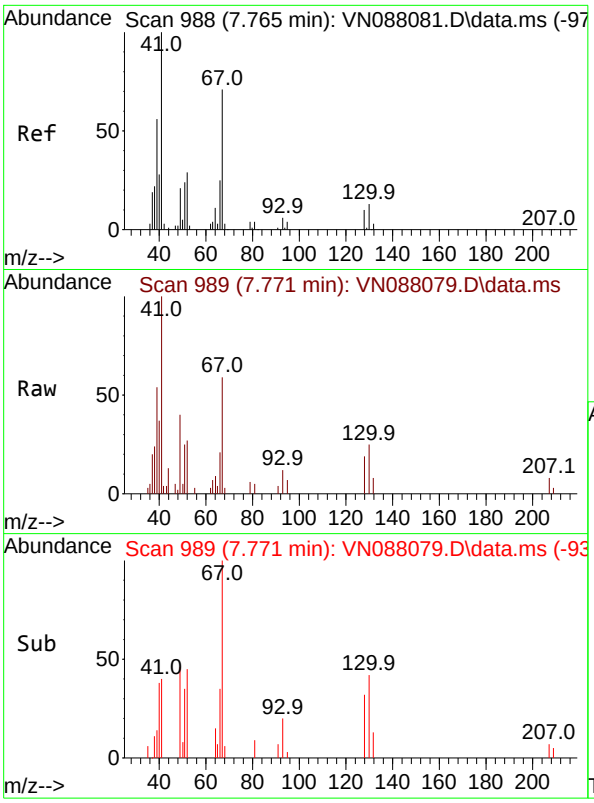


#40
Benzene
Concen: 5.279 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 78 Resp: 89925

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.7	29.5

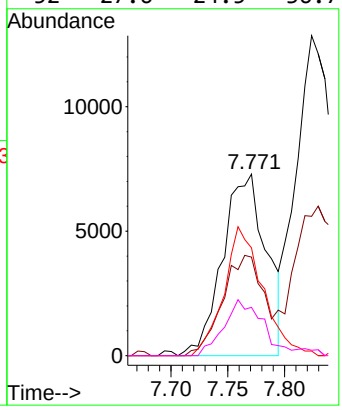




#41
Methacrylonitrile
Concen: 5.137 ug/l
RT: 7.771 min Scan# 9
Delta R.T. 0.012 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 41 Resp: 1951

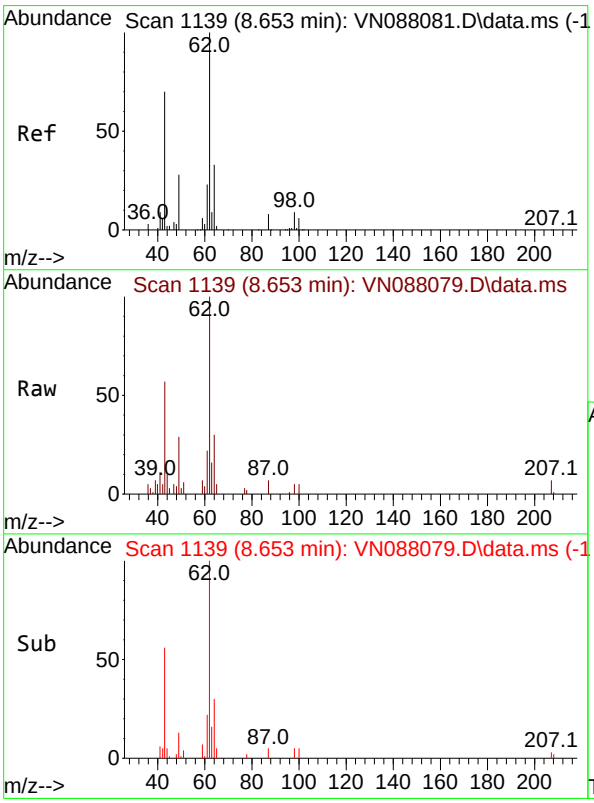
Ion	Ratio	Lower	Upper
41	100		
39	51.1	45.4	68.0
67	63.0	55.3	82.9
52	27.6	24.5	36.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

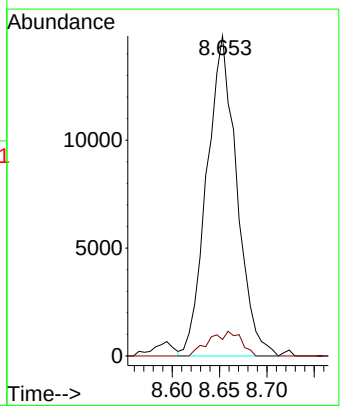
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

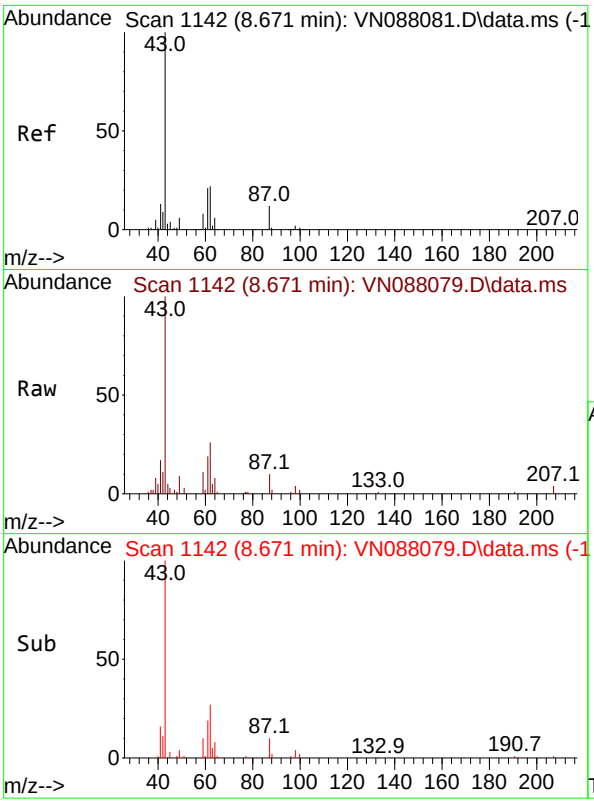


#42
1,2-Dichloroethane
Concen: 5.388 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 62 Resp: 32612

Ion	Ratio	Lower	Upper
62	100		
98	8.2	0.0	17.4

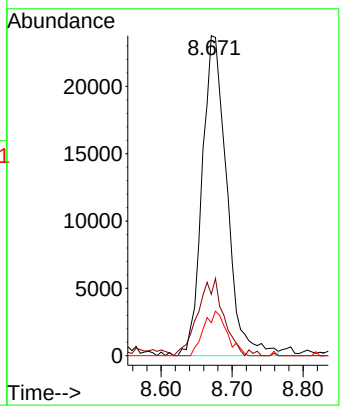




#43
Isopropyl Acetate
Concen: 5.184 ug/l
RT: 8.671 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 43 Resp: 5749

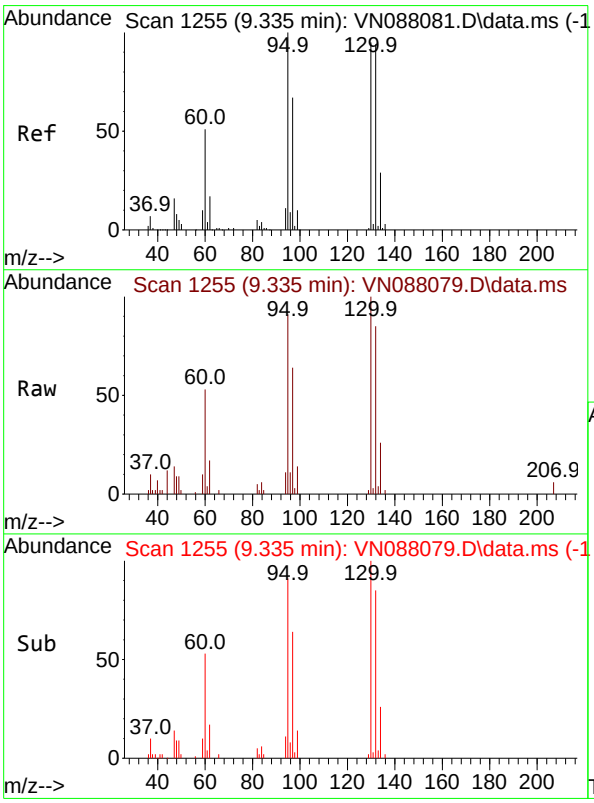
Ion	Ratio	Lower	Upper
43	100		
61	25.0	18.8	28.2
87	13.1	9.6	14.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

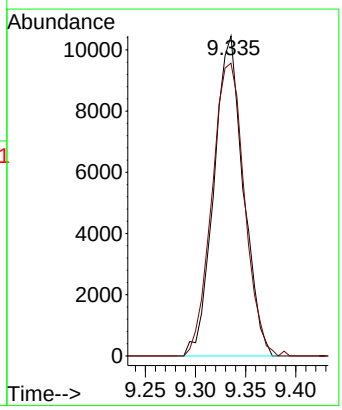
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

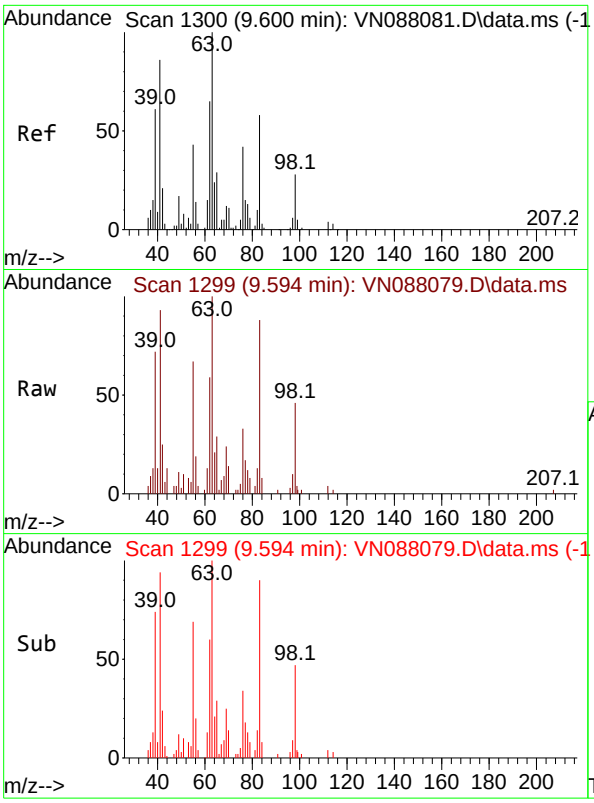


#44
Trichloroethene
Concen: 5.361 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:130 Resp: 21346

Ion	Ratio	Lower	Upper
130	100		
95	91.5	0.0	212.0

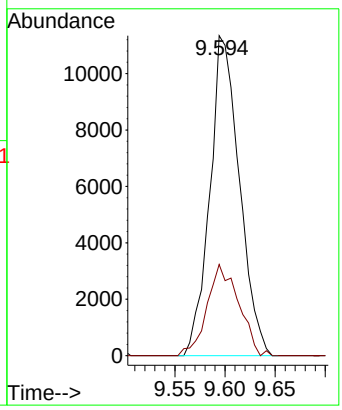




#45
1,2-Dichloropropane
Concen: 5.411 ug/l
RT: 9.594 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 63 Resp: 2327

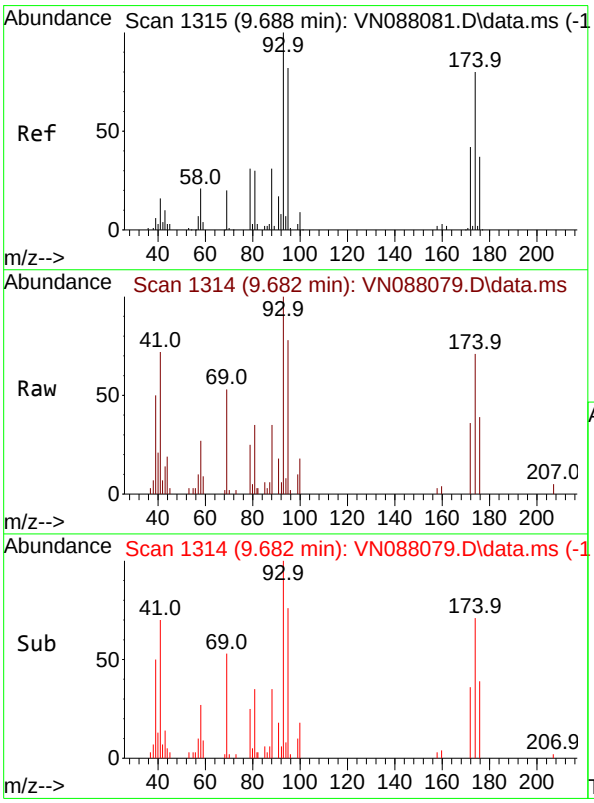
Ion	Ratio	Lower	Upper
63	100		
65	28.5	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

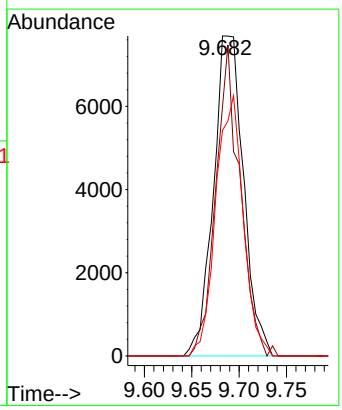
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

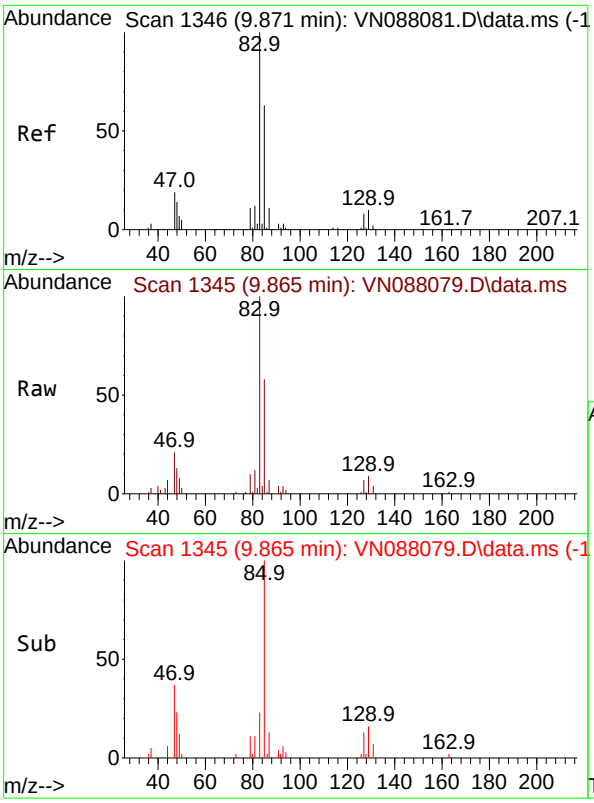


#46
Dibromomethane
Concen: 5.546 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 93 Resp: 17012

Ion	Ratio	Lower	Upper
93	100		
95	78.4	66.2	99.4
174	74.1	63.4	95.2

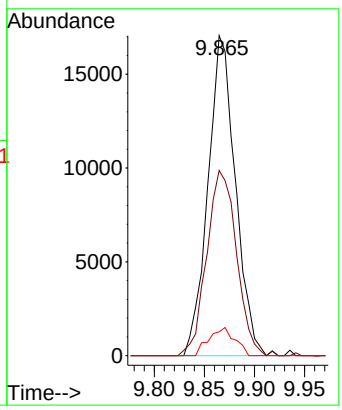




#47
Bromodichloromethane
Concen: 5.295 ug/l
RT: 9.865 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 83 Resp: 3251

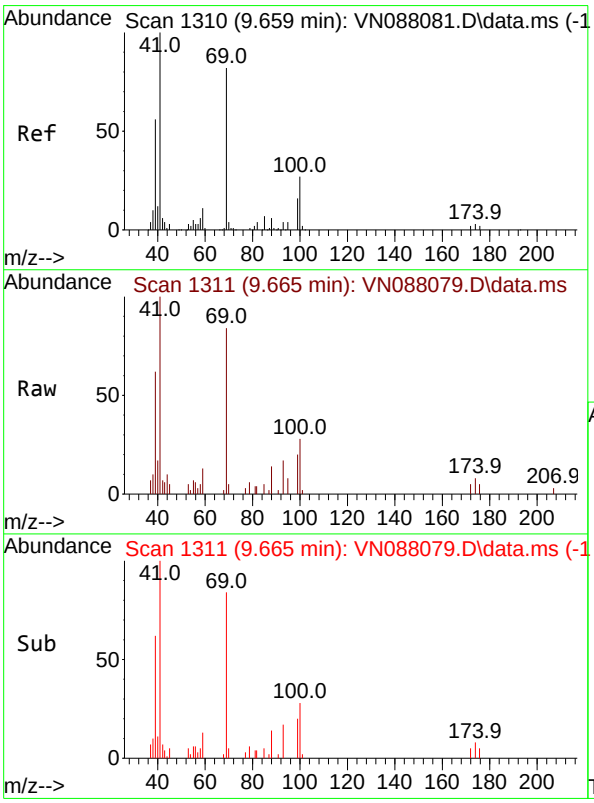
Ion	Ratio	Lower	Upper
83	100		
85	57.9	52.5	78.7
127	7.5	5.8	8.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

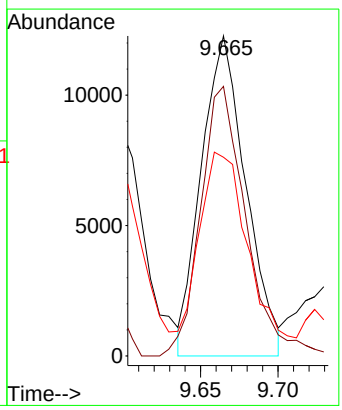
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

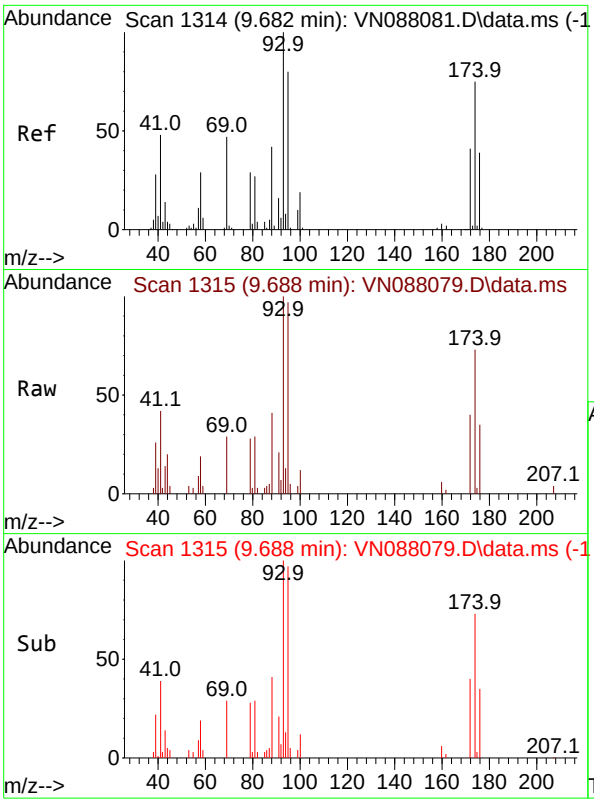


#48
Methyl methacrylate
Concen: 4.645 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 41 Resp: 24475

Ion	Ratio	Lower	Upper
41	100		
69	86.6	62.7	94.1
39	71.3	52.9	79.3





#49
1,4-Dioxane
Concen: 106.179 ug/l
RT: 9.688 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

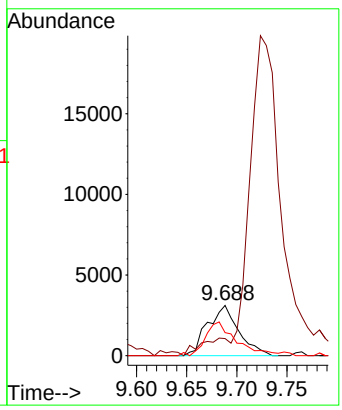
Tgt Ion: 88 Resp: 676

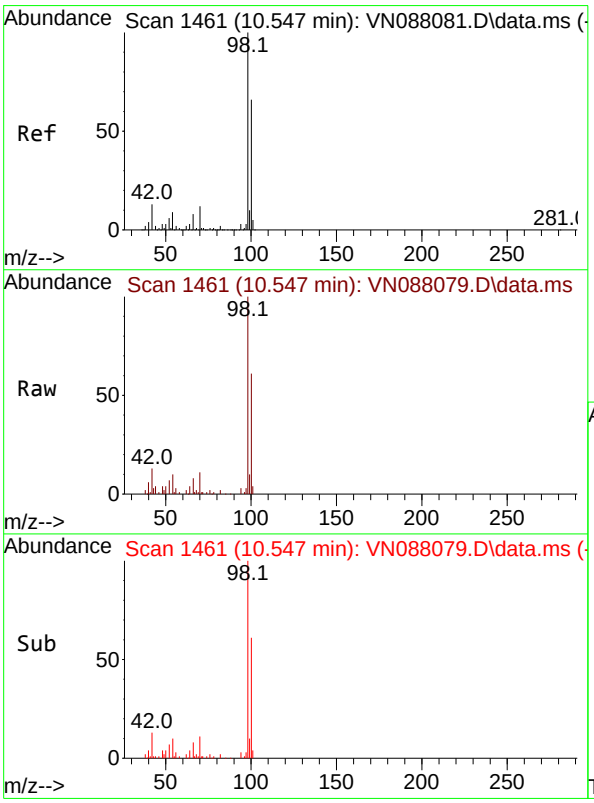
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	68.0	57.9	86.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

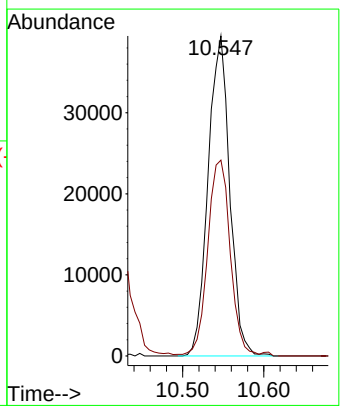


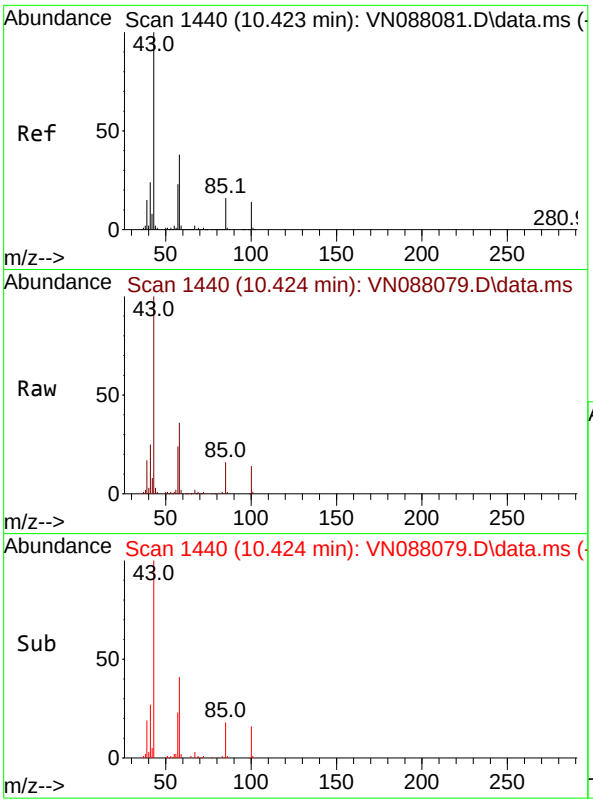


#50
Toluene-d8
Concen: 4.956 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 98 Resp: 73162

Ion	Ratio	Lower	Upper
98	100		
100	62.4	52.8	79.2





#51
4-Methyl-2-Pentanone
Concen: 26.055 ug/l
RT: 10.424 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

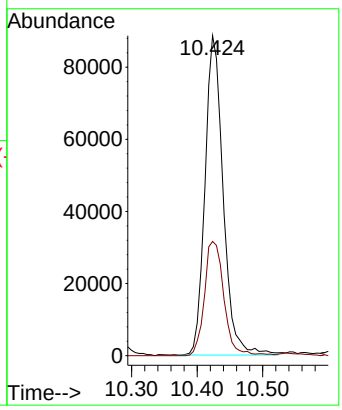
Tgt Ion: 43 Resp: 17097

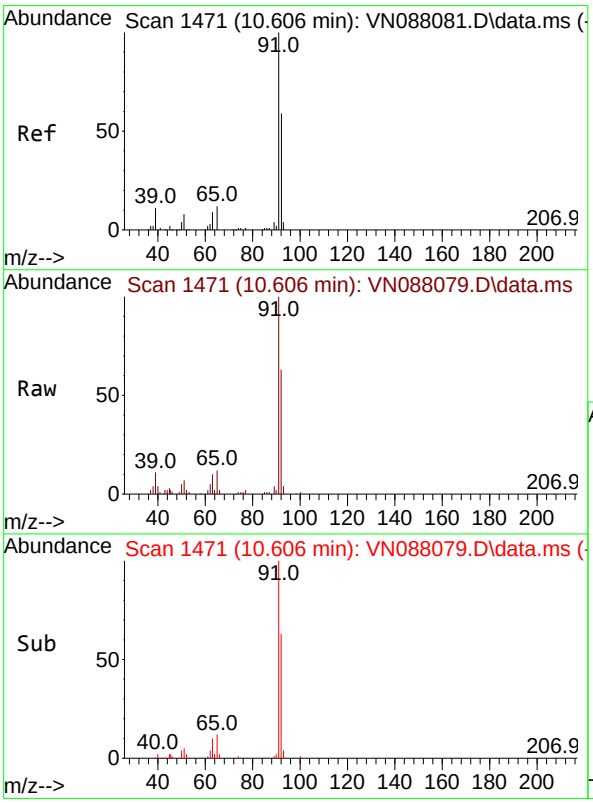
Ion	Ratio	Lower	Upper
43	100		
58	38.4	29.6	44.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

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Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

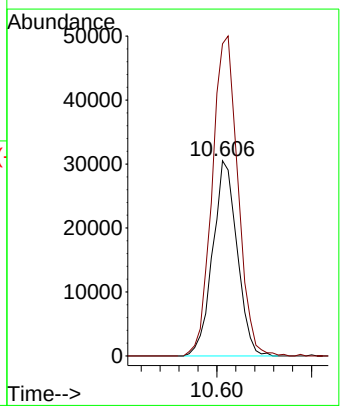


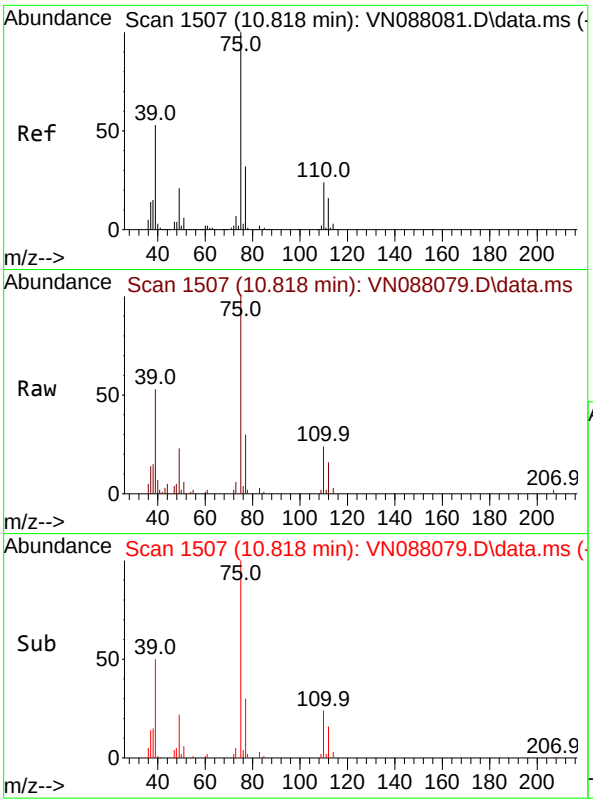


#52
Toluene
Concen: 5.201 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 92 Resp: 54632

Ion	Ratio	Lower	Upper
92	100		
91	172.7	140.4	210.6

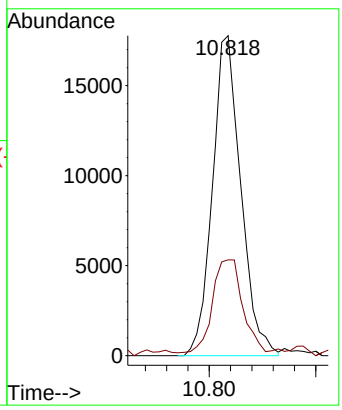




#53
t-1,3-Dichloropropene
Concen: 5.023 ug/l
RT: 10.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 75 Resp: 3283

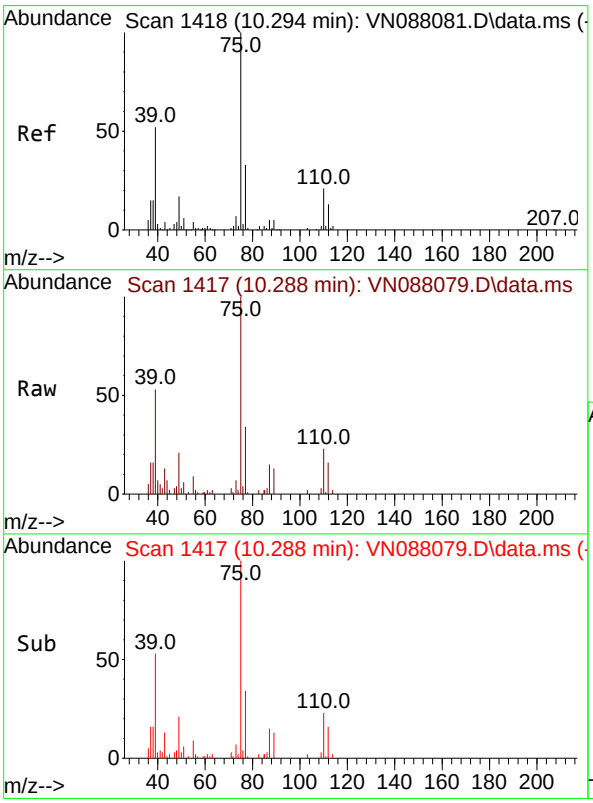
Ion	Ratio	Lower	Upper
75	100		
77	29.1	25.2	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

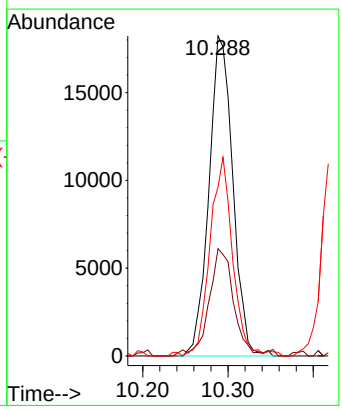
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

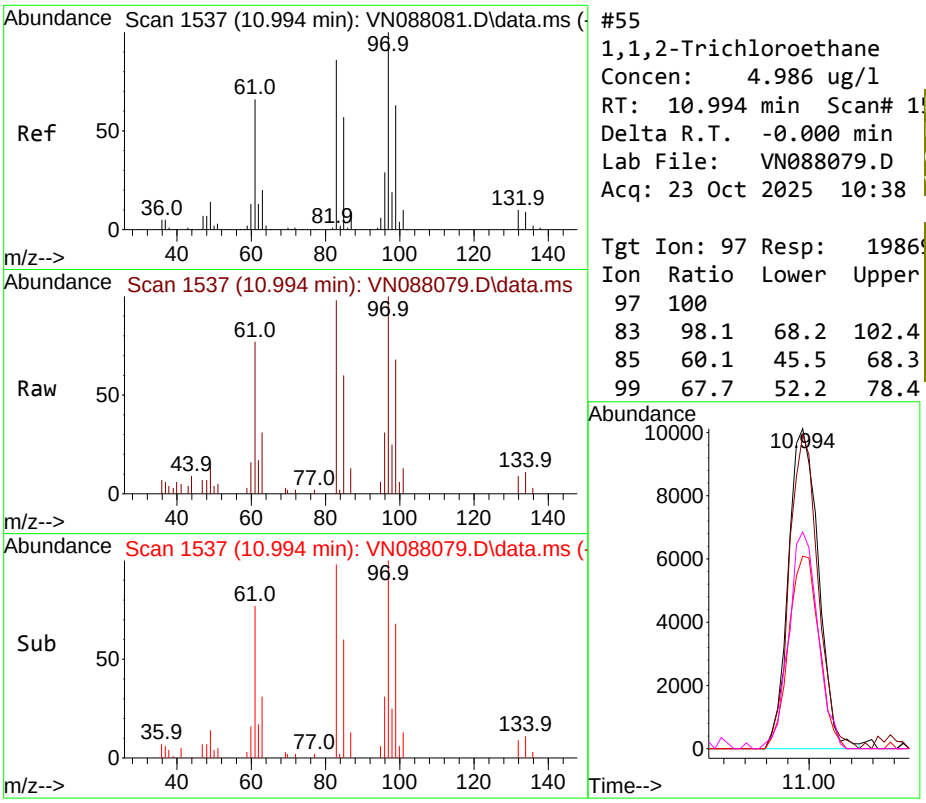


#54
cis-1,3-Dichloropropene
Concen: 5.118 ug/l
RT: 10.288 min Scan# 1417
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 75 Resp: 35495

Ion	Ratio	Lower	Upper
75	100		
77	33.5	24.6	37.0
39	51.8	45.2	67.8





#55
1,1,2-Trichloroethane
Concen: 4.986 ug/l
RT: 10.994 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

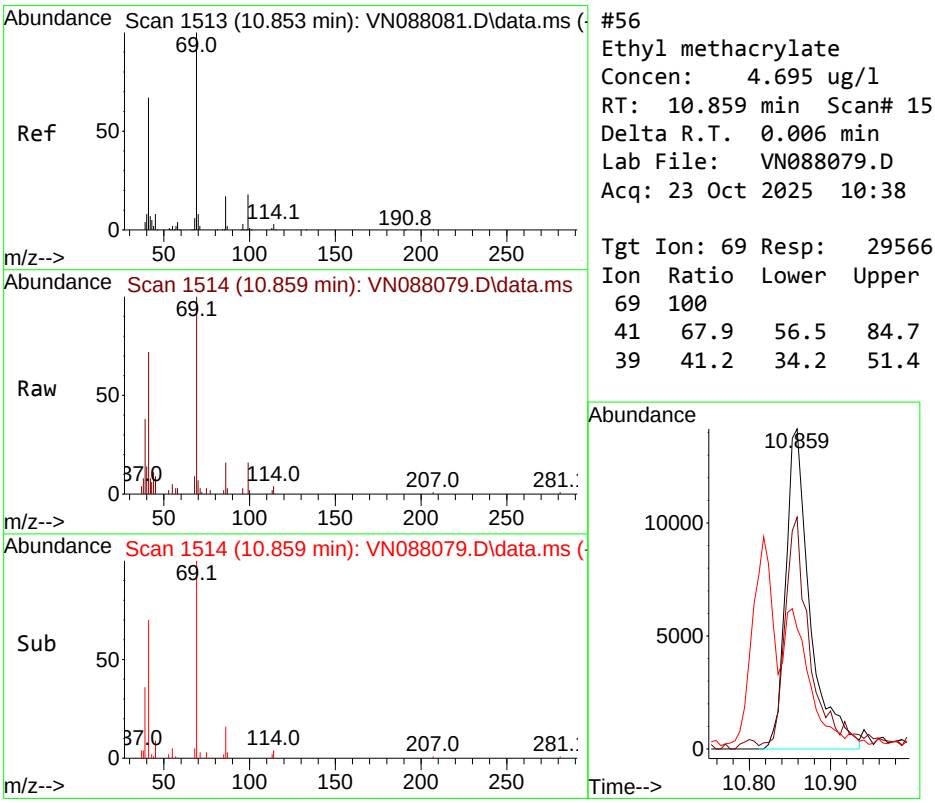
Tgt Ion: 97 Resp: 1986

Ion	Ratio	Lower	Upper
97	100		
83	98.1	68.2	102.4
85	60.1	45.5	68.3
99	67.7	52.2	78.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

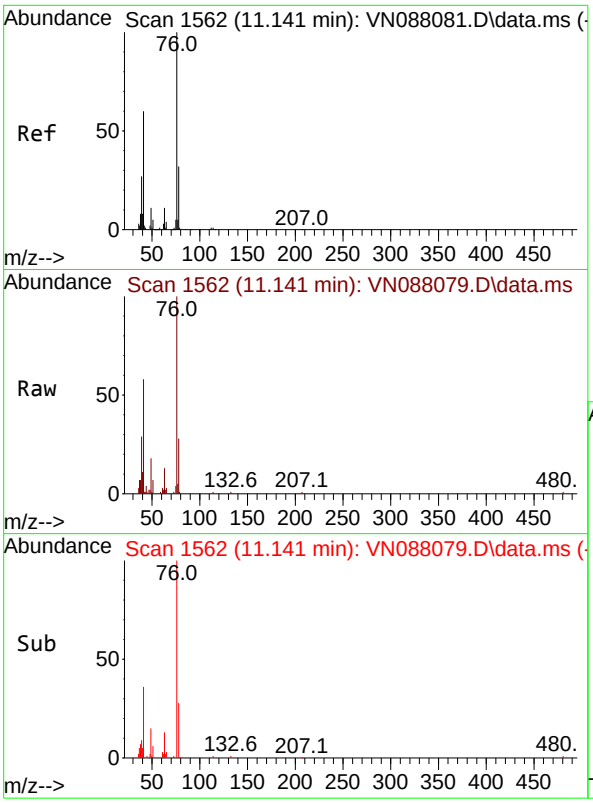
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#56
Ethyl methacrylate
Concen: 4.695 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 69 Resp: 29566

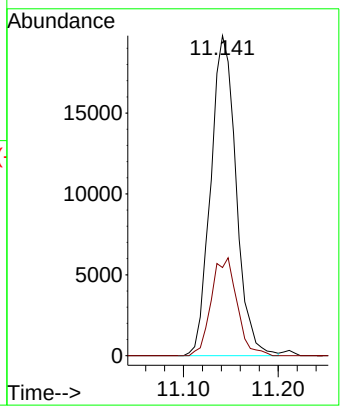
Ion	Ratio	Lower	Upper
69	100		
41	67.9	56.5	84.7
39	41.2	34.2	51.4



#57
1,3-Dichloropropane
Concen: 5.267 ug/l
RT: 11.141 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 76 Resp: 3689

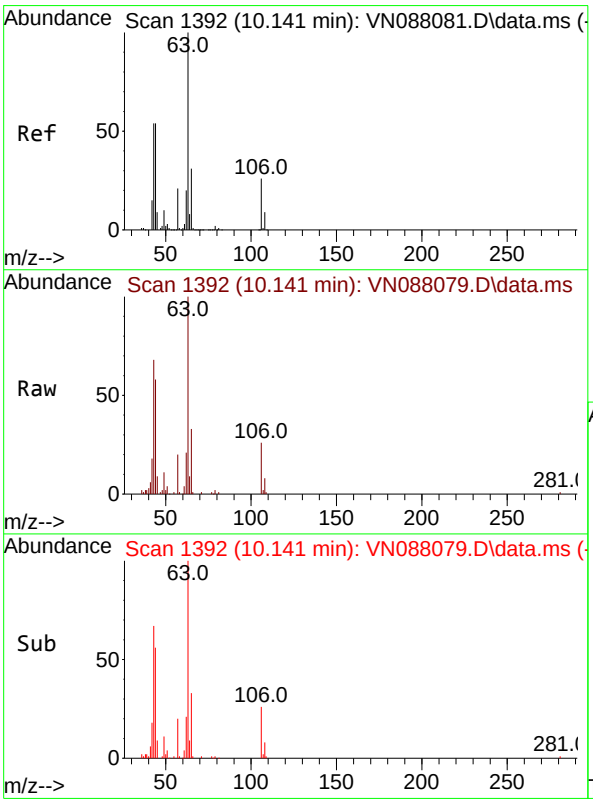
Ion	Ratio	Lower	Upper
76	100		
78	31.0	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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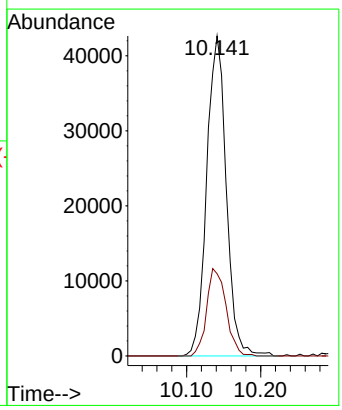
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

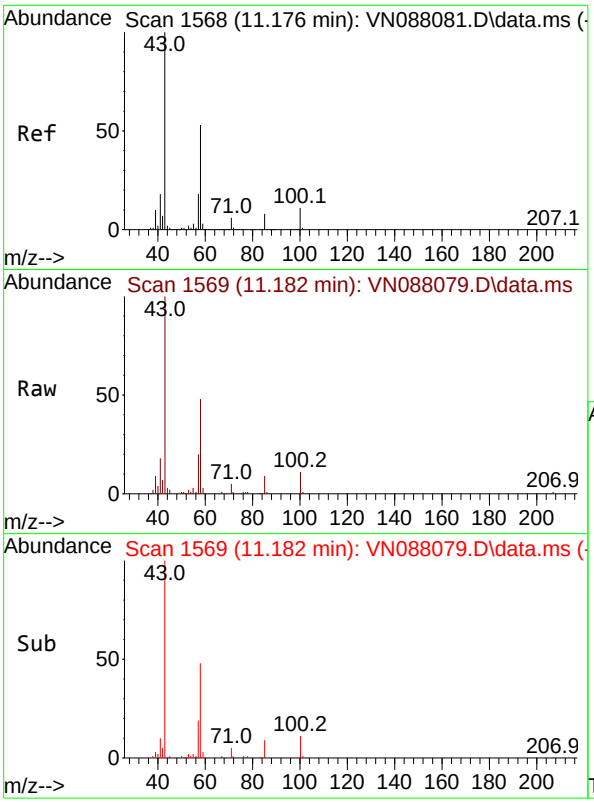


#58
2-Chloroethyl Vinyl ether
Concen: 23.808 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 63 Resp: 78095

Ion	Ratio	Lower	Upper
63	100		
106	27.1	21.1	31.7





#59
2-Hexanone
Concen: 21.954 ug/l
RT: 11.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

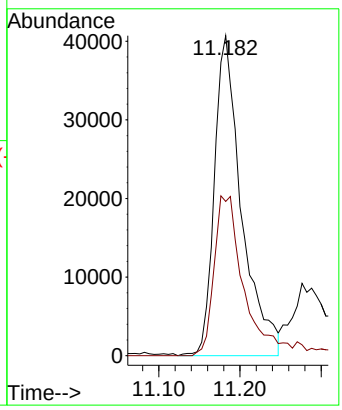
Tgt Ion: 43 Resp: 9457

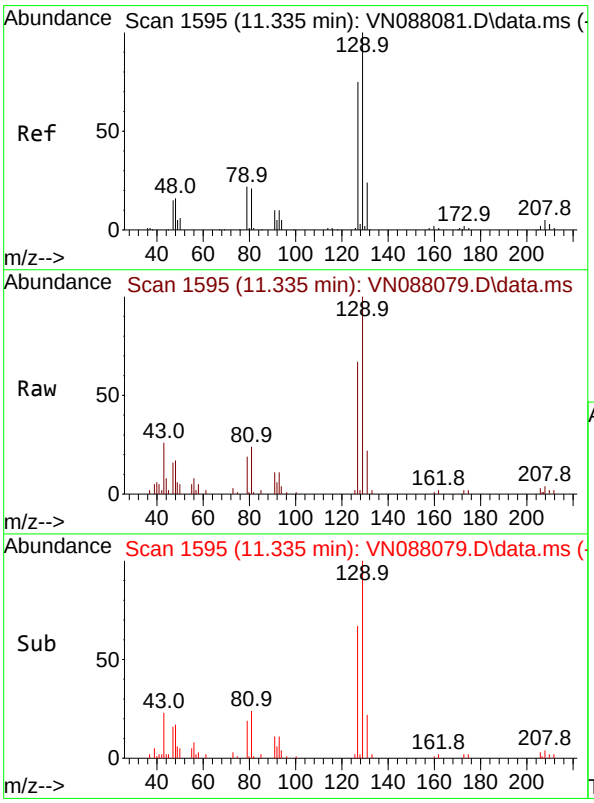
Ion	Ratio	Lower	Upper
43	100		
58	54.3	25.9	77.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

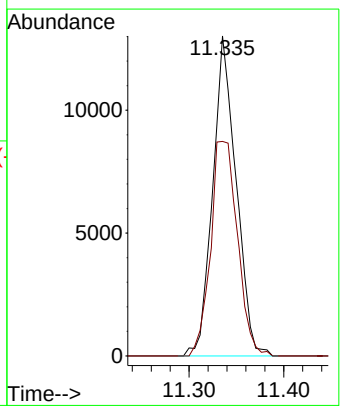


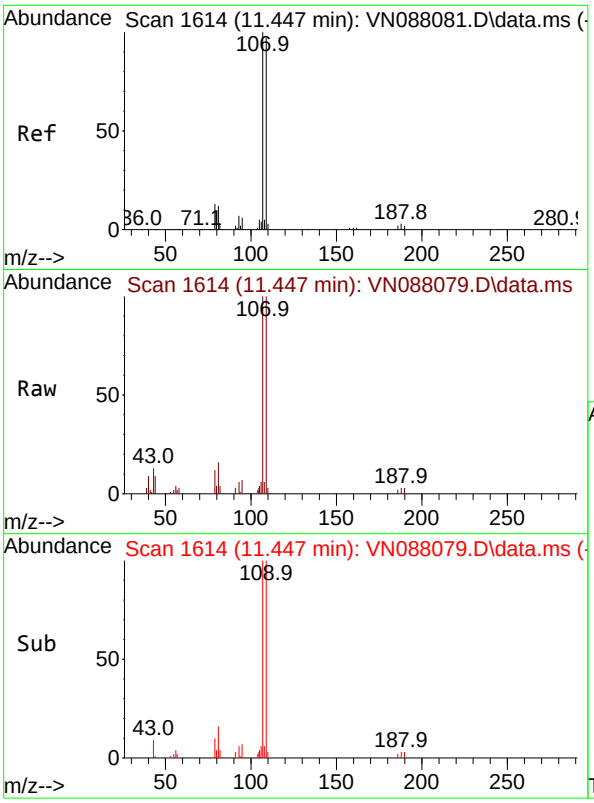


#60
Dibromochloromethane
Concen: 4.934 ug/l
RT: 11.335 min Scan# 1595
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:129 Resp: 22347

Ion	Ratio	Lower	Upper
129	100		
127	77.1	39.1	117.3

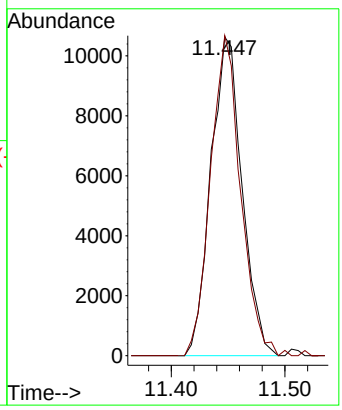




#61
1,2-Dibromoethane
Concen: 4.946 ug/l
RT: 11.447 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:107 Resp: 2028

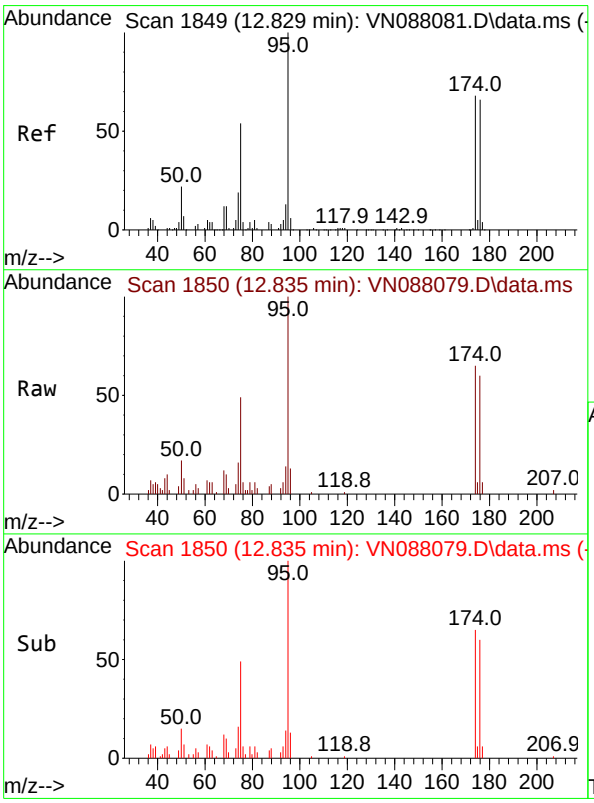
Ion	Ratio	Lower	Upper
107	100		
109	97.1	74.7	112.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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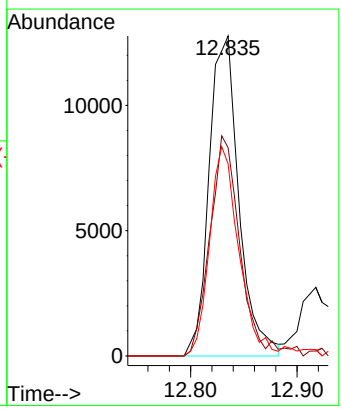
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

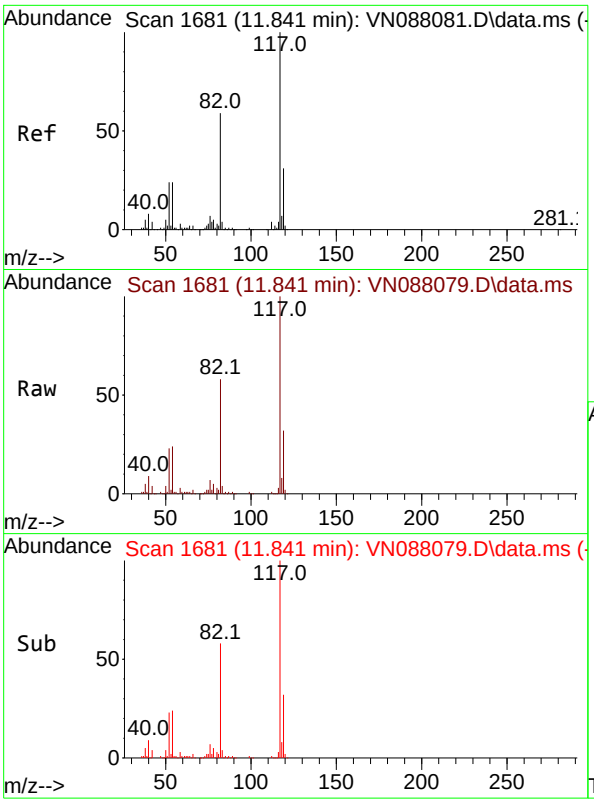


#62
4-Bromofluorobenzene
Concen: 4.755 ug/l
RT: 12.835 min Scan# 1850
Delta R.T. 0.012 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 95 Resp: 24787

Ion	Ratio	Lower	Upper
95	100		
174	69.9	0.0	138.4
176	64.0	0.0	132.6

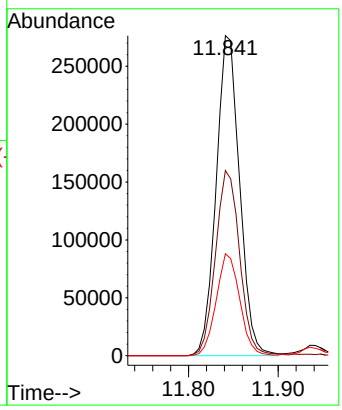




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:117 Resp: 50229

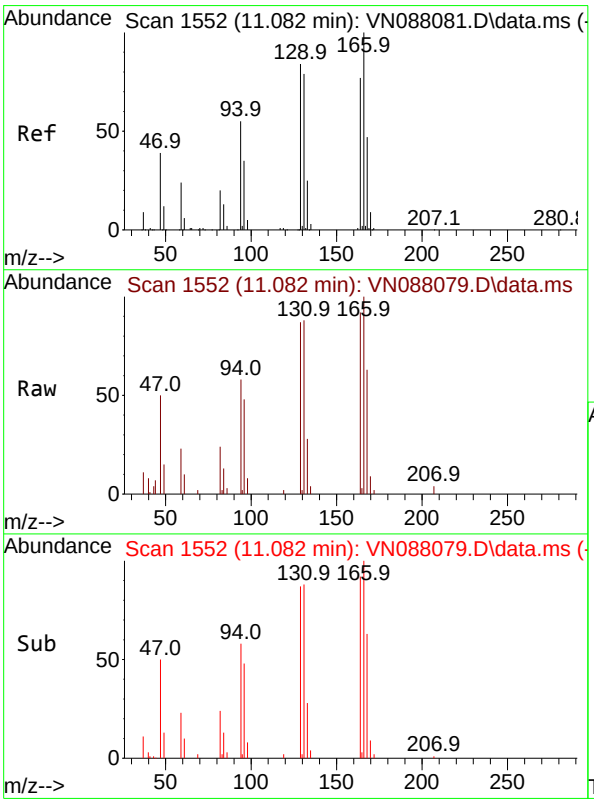
Ion	Ratio	Lower	Upper
117	100		
82	57.9	47.4	71.2
119	31.8	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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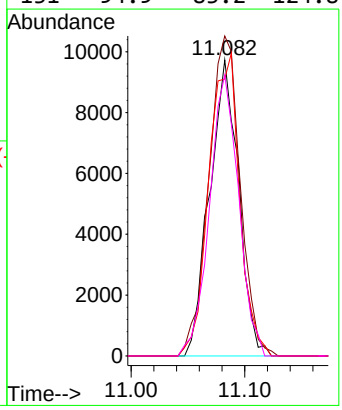
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

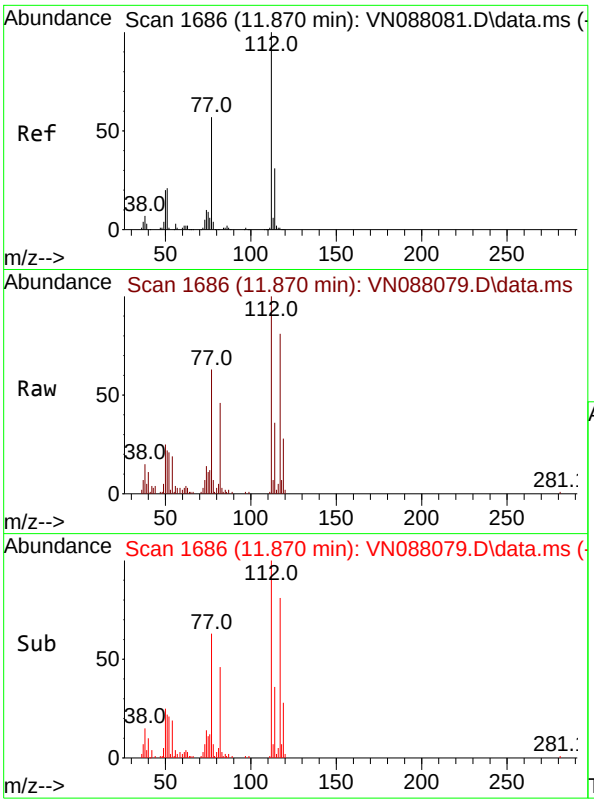


#64
Tetrachloroethene
Concen: 5.218 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:164 Resp: 17289

Ion	Ratio	Lower	Upper
164	100		
166	108.1	97.7	146.5
129	93.6	85.9	128.9
131	94.9	83.2	124.8

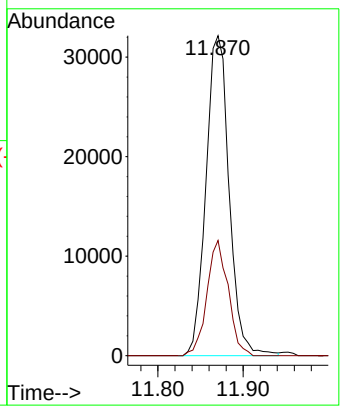




#65
Chlorobenzene
Concen: 5.322 ug/l
RT: 11.870 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:112 Resp: 6070

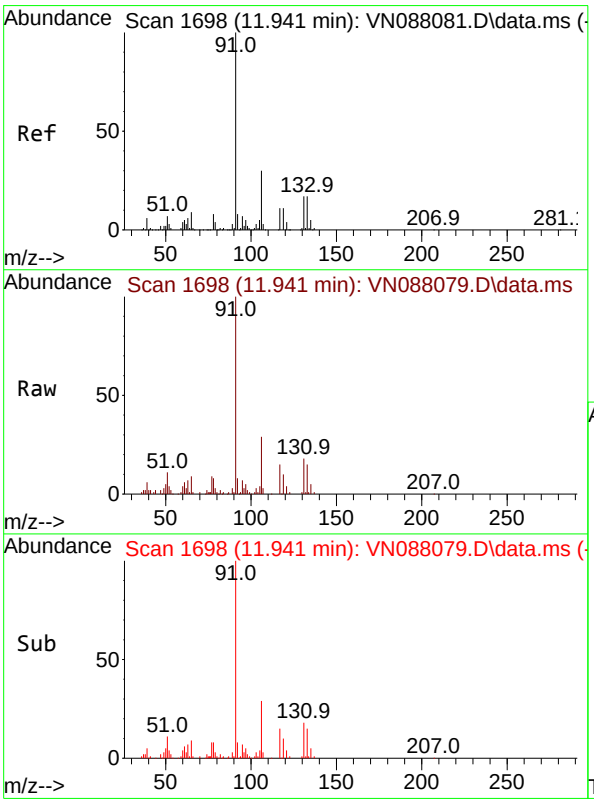
Ion	Ratio	Lower	Upper
112	100		
114	36.0	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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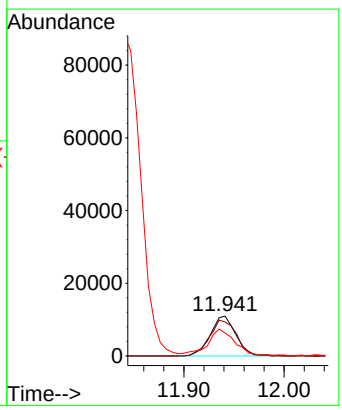
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

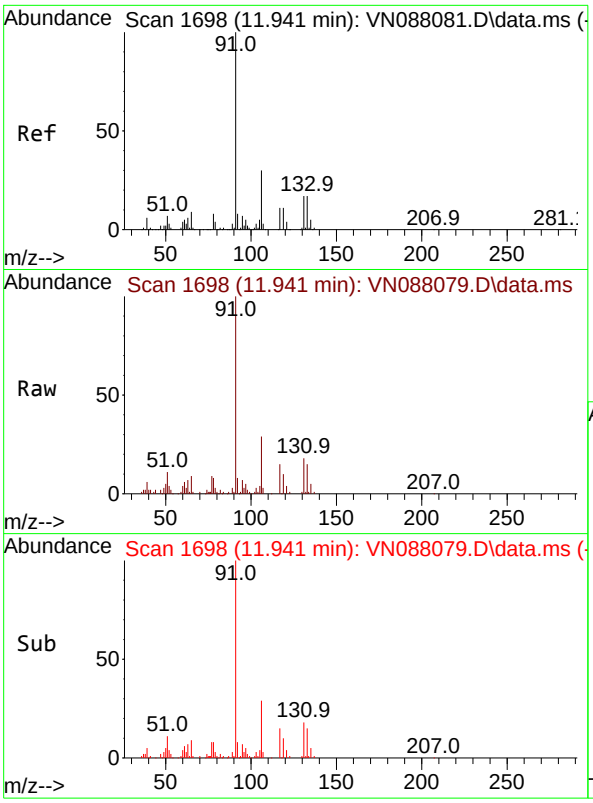


#66
1,1,1,2-Tetrachloroethane
Concen: 5.171 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:131 Resp: 19321

Ion	Ratio	Lower	Upper
131	100		
133	95.5	48.0	144.0
119	74.1	32.6	97.7

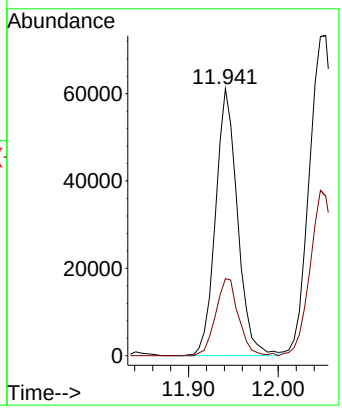




#67
Ethyl Benzene
Concen: 5.183 ug/l
RT: 11.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 91 Resp: 10375

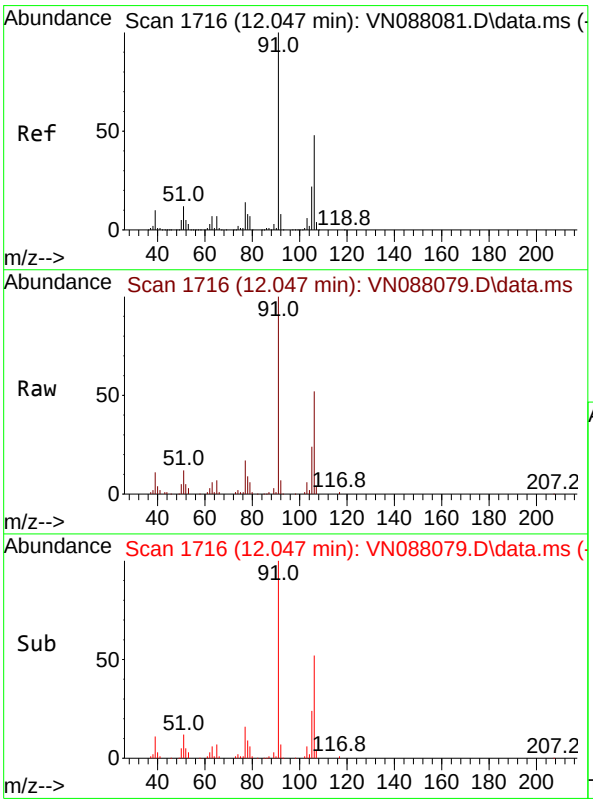
Ion	Ratio	Lower	Upper
91	100		
106	28.8	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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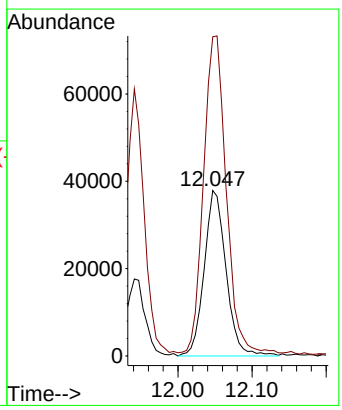
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

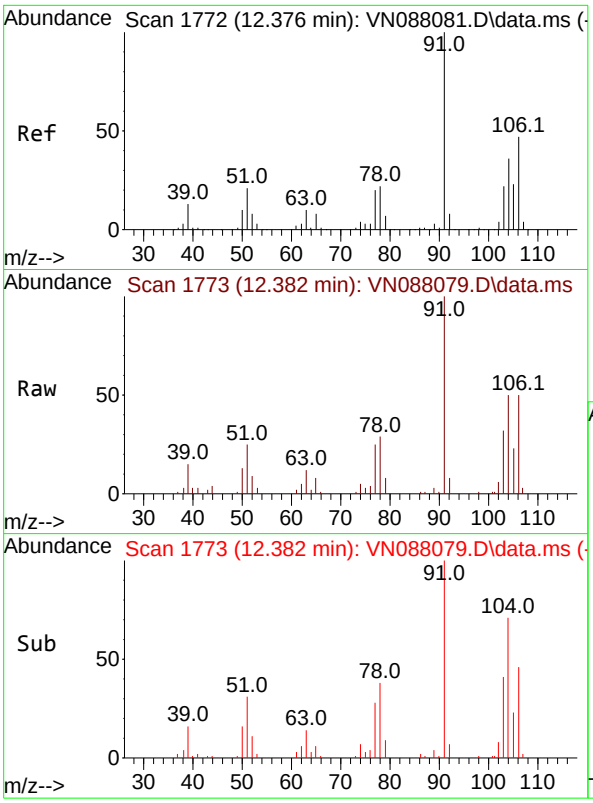


#68
m/p-Xylenes
Concen: 10.363 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:106 Resp: 77736

Ion	Ratio	Lower	Upper
106	100		
91	198.9	169.3	253.9

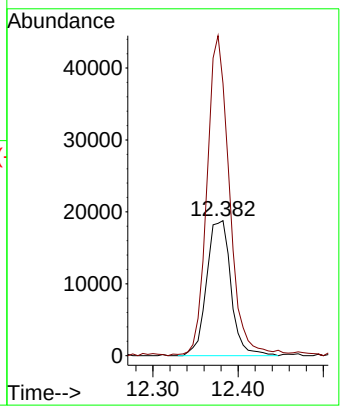




#69
o-Xylene
Concen: 5.239 ug/l
RT: 12.382 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:106 Resp: 3725

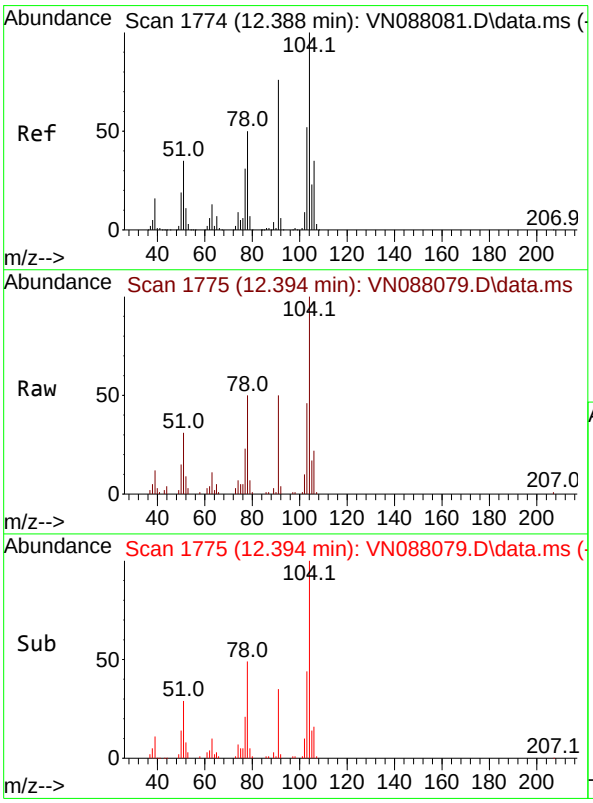
Ion	Ratio	Lower	Upper
106	100		
91	219.4	111.4	334.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

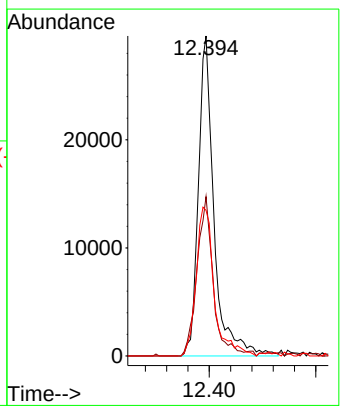
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

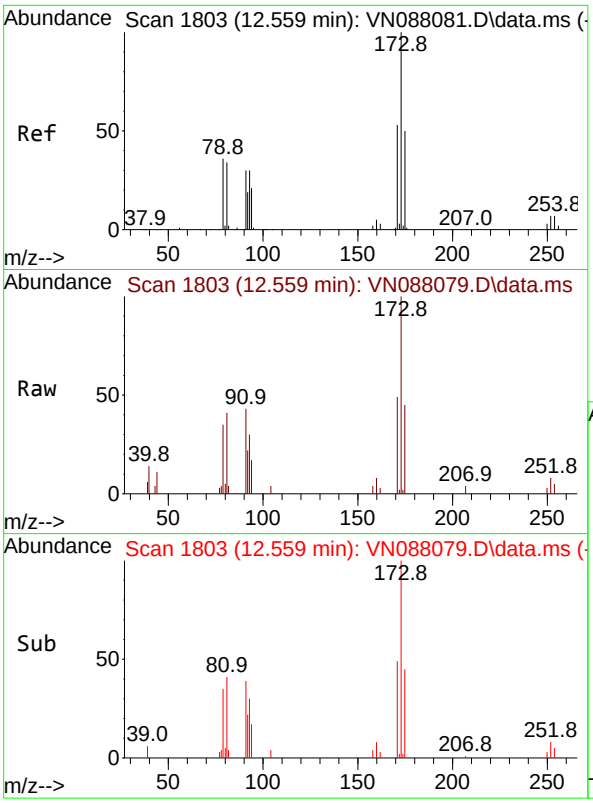


#70
Styrene
Concen: 5.215 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:104 Resp: 60467

Ion	Ratio	Lower	Upper
104	100		
78	51.1	42.2	63.2
103	53.5	43.4	65.2

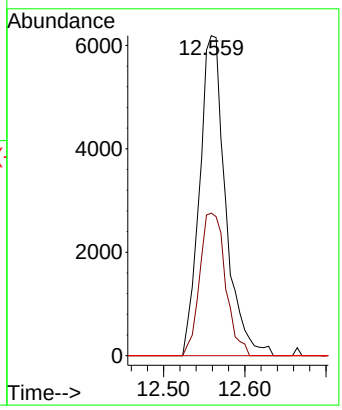




#71
Bromoform
Concen: 4.929 ug/l
RT: 12.559 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:173 Resp: 1374

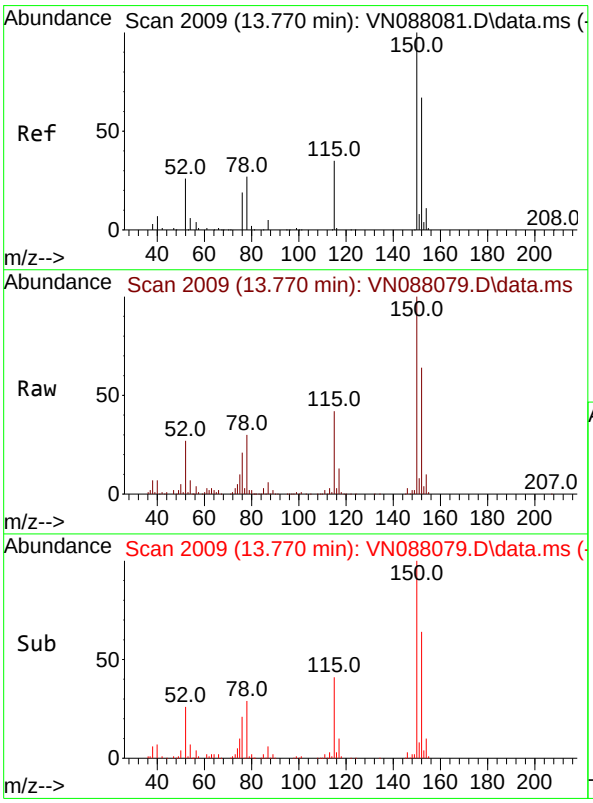
Ion	Ratio	Lower	Upper
173	100		
175	44.2	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

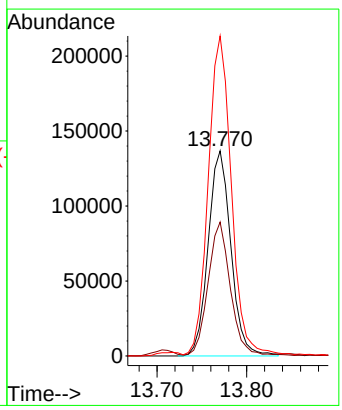
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

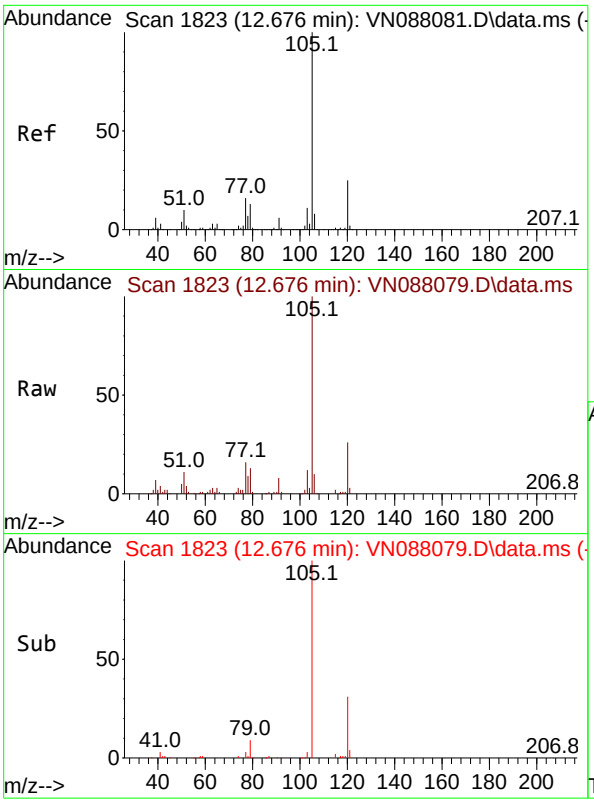


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:152 Resp: 241248

Ion	Ratio	Lower	Upper
152	100		
115	63.6	32.3	96.8
150	158.0	0.0	351.0

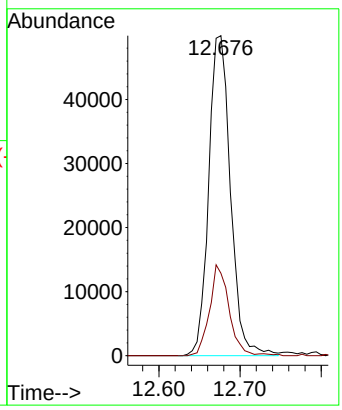




#73
Isopropylbenzene
Concen: 5.001 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:105 Resp: 9305

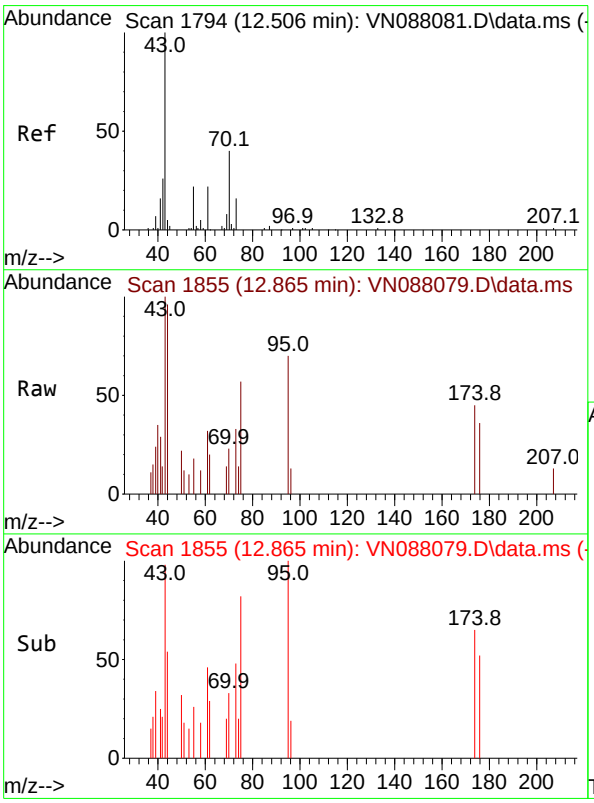
Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
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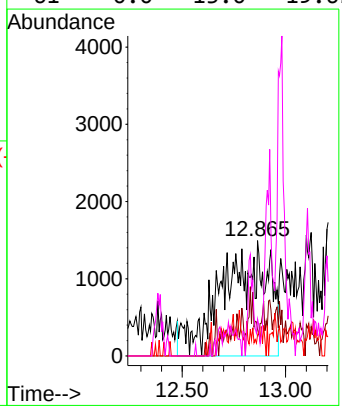
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

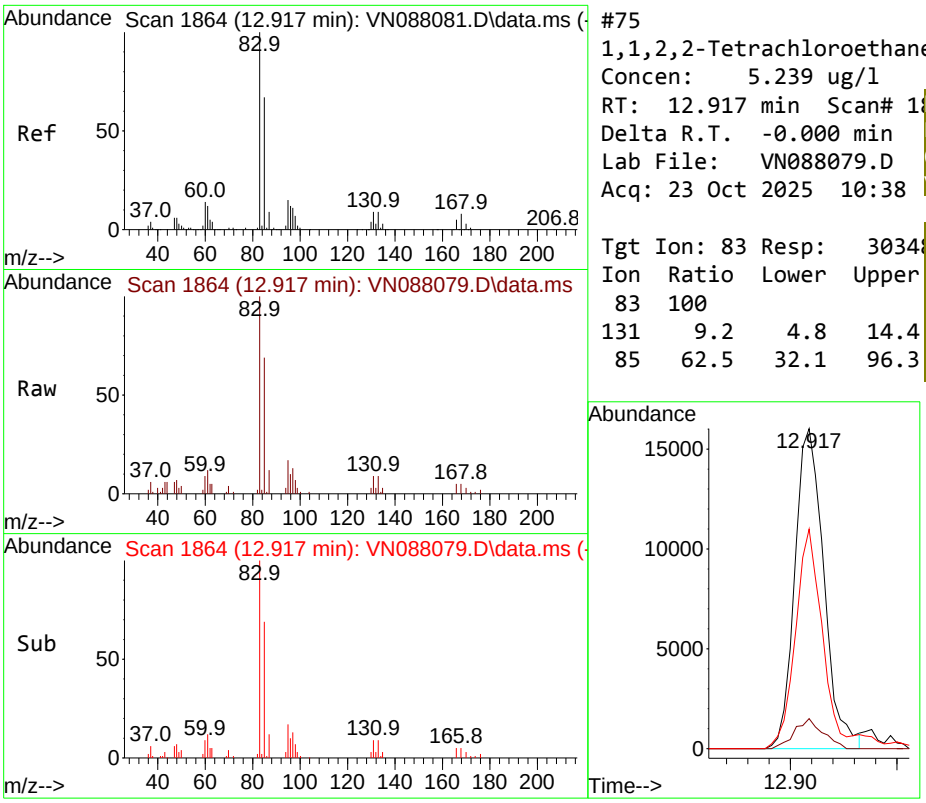


#74
N-amyl acetate
Concen: 4.171 ug/l m
RT: 12.865 min Scan# 1855
Delta R.T. 0.365 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 43 Resp: 22461

Ion	Ratio	Lower	Upper
43	100		
70	0.0	27.6	41.4#
55	0.0	13.0	19.6#
61	0.0	13.0	19.6#





#75
1,1,2,2-Tetrachloroethane
Concen: 5.239 ug/l
RT: 12.917 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

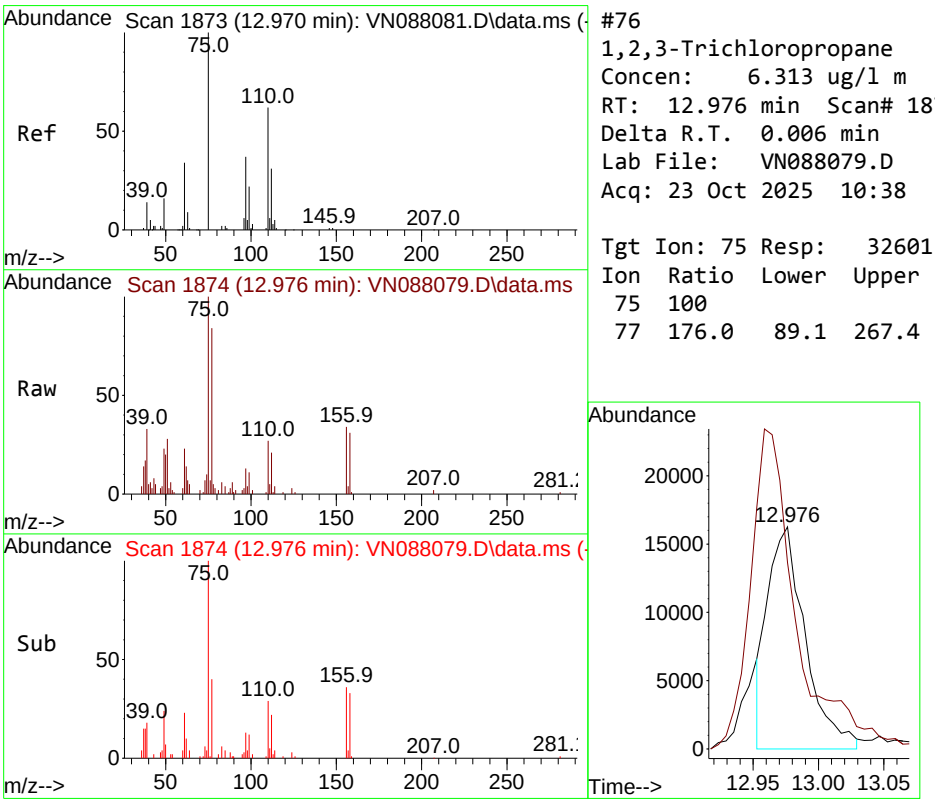
Tgt Ion: 83 Resp: 3034

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.8	14.4
85	62.5	32.1	96.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

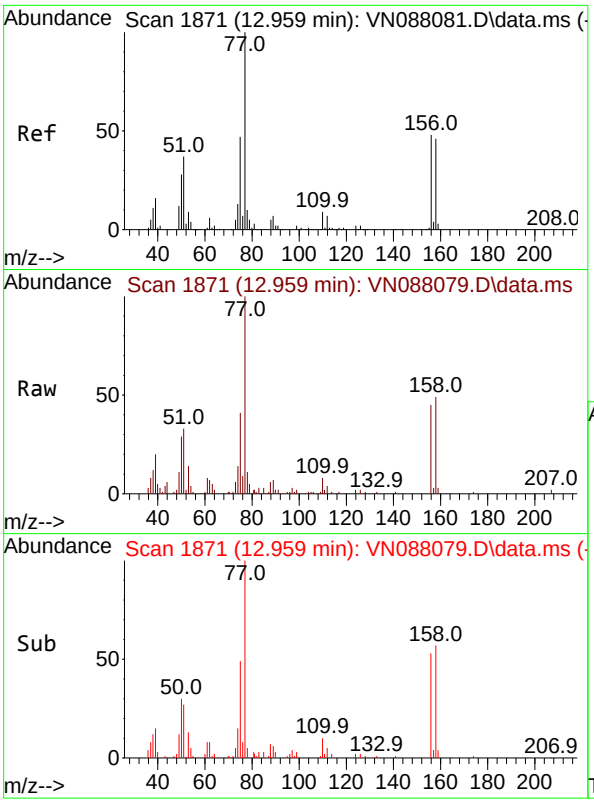
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#76
1,2,3-Trichloropropane
Concen: 6.313 ug/l m
RT: 12.976 min Scan# 1874
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 75 Resp: 32601

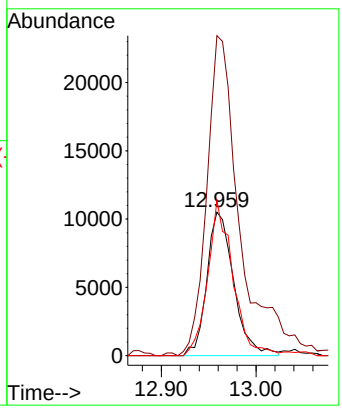
Ion	Ratio	Lower	Upper
75	100		
77	176.0	89.1	267.4



#77
Bromobenzene
Concen: 5.164 ug/l
RT: 12.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:156 Resp: 2072

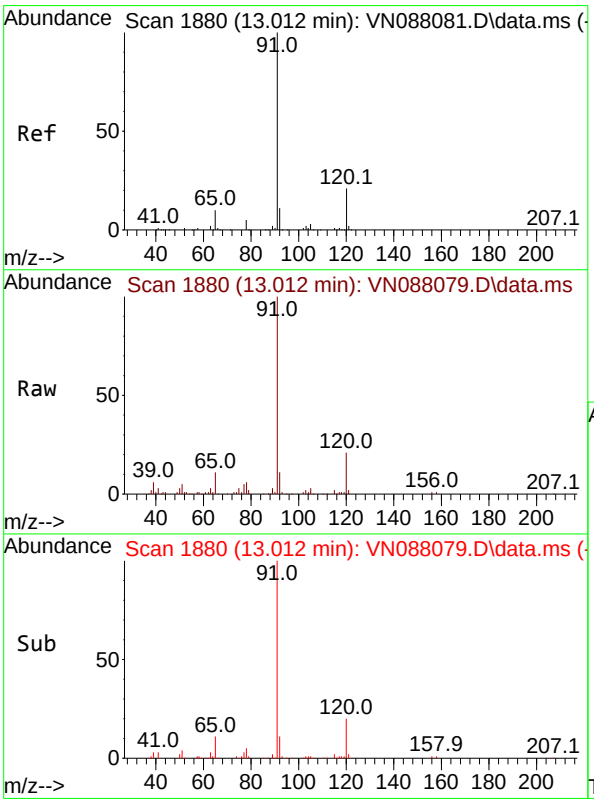
Ion	Ratio	Lower	Upper
156	100		
77	276.9	119.3	358.0
158	101.3	48.2	144.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

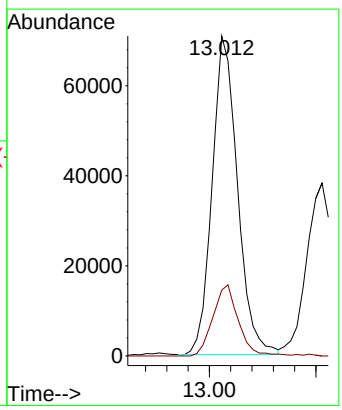
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

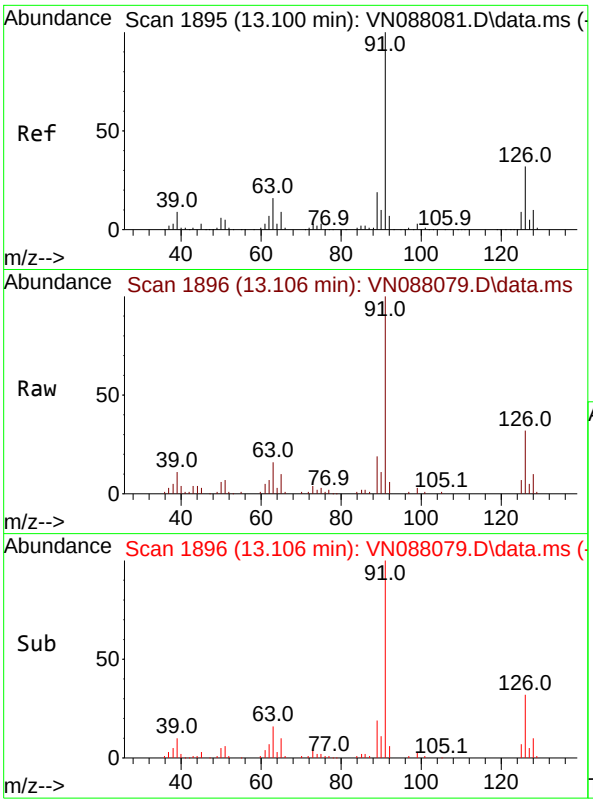


#78
n-propylbenzene
Concen: 5.158 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 91 Resp: 117114

Ion	Ratio	Lower	Upper
91	100		
120	22.3	10.7	32.1

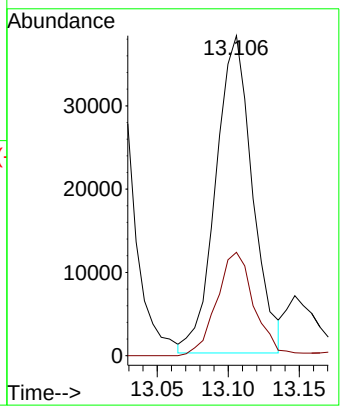




#79
2-Chlorotoluene
Concen: 5.278 ug/l
RT: 13.106 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 91 Resp: 6835

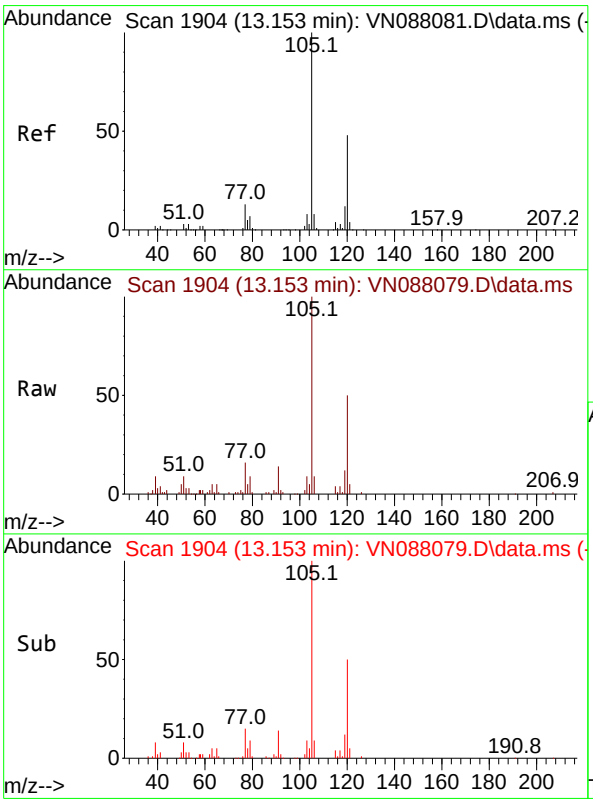
Ion	Ratio	Lower	Upper
91	100		
126	33.4	16.1	48.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

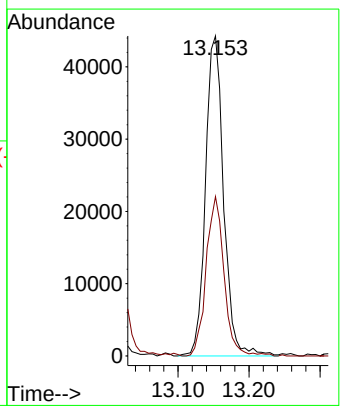
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

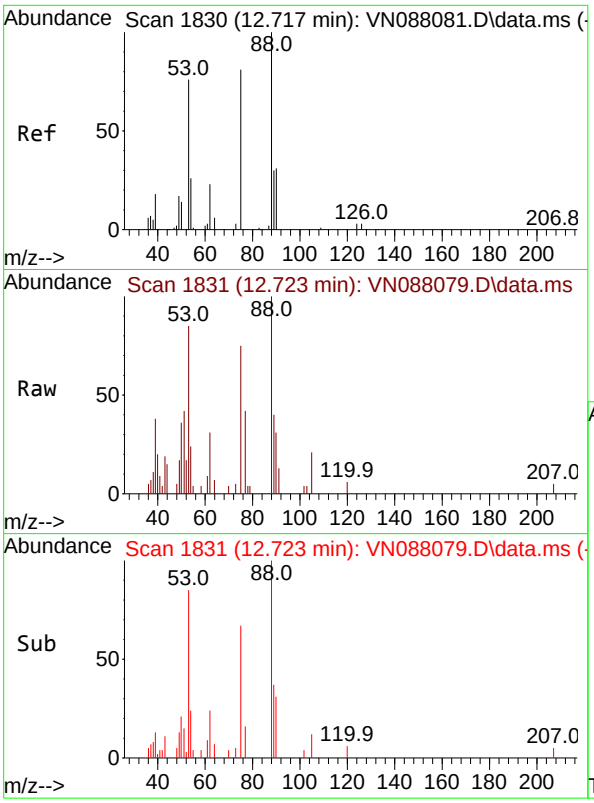


#80
1,3,5-Trimethylbenzene
Concen: 5.081 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:105 Resp: 78511

Ion	Ratio	Lower	Upper
105	100		
120	49.4	23.2	69.6





#81
trans-1,4-Dichloro-2-butene
Concen: 5.137 ug/l m
RT: 12.723 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

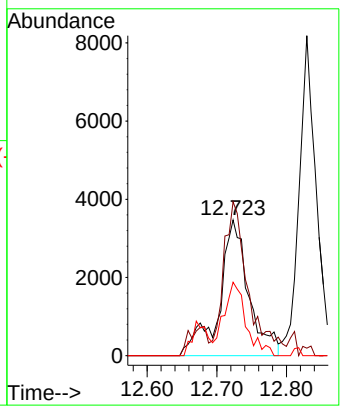
Tgt Ion: 75 Resp: 1018

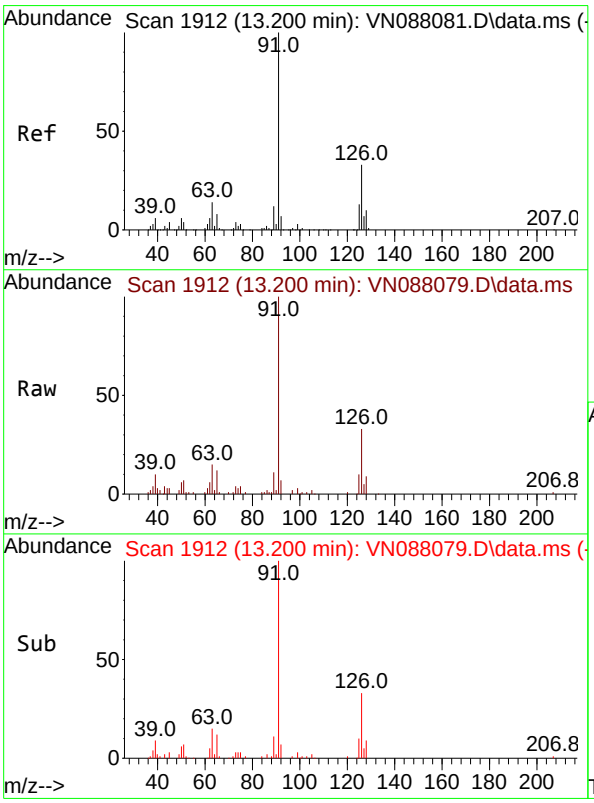
Ion	Ratio	Lower	Upper
75	100		
53	88.1	101.8	152.6
89	40.8	35.6	53.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

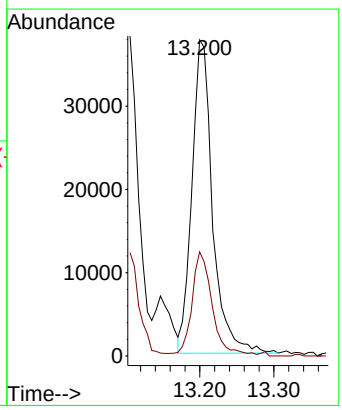


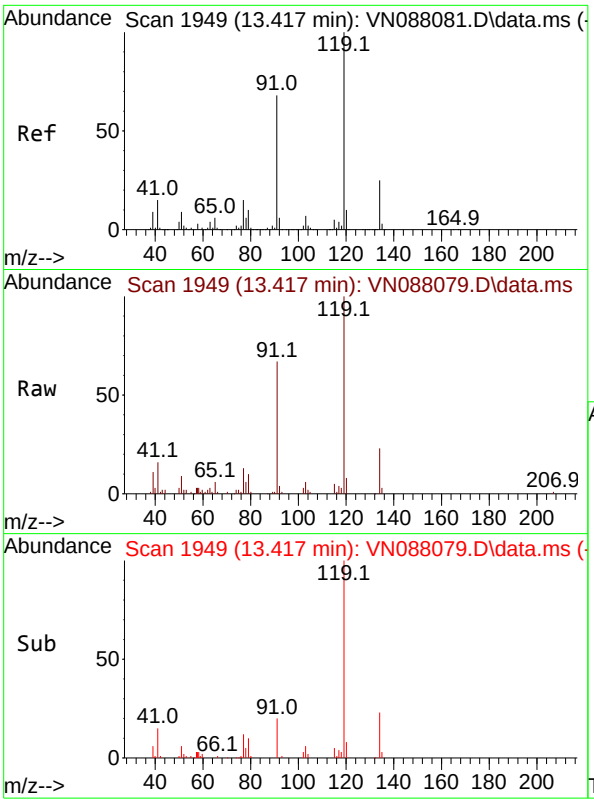


#82
4-Chlorotoluene
Concen: 5.199 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 91 Resp: 72836

Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.6	46.8

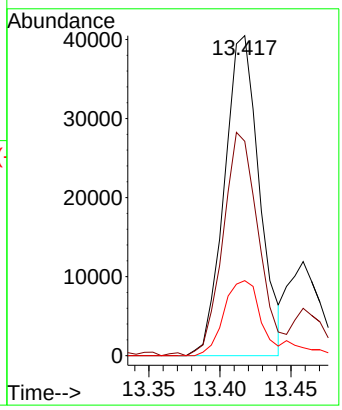




#83
tert-Butylbenzene
Concen: 5.025 ug/l
RT: 13.417 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:119 Resp: 6937

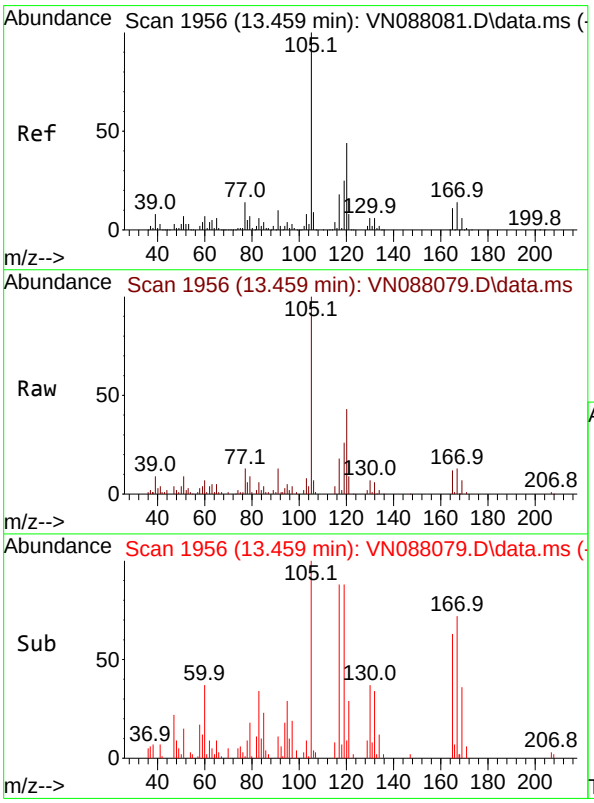
Ion	Ratio	Lower	Upper
119	100		
91	71.6	35.0	105.0
134	27.3	12.6	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

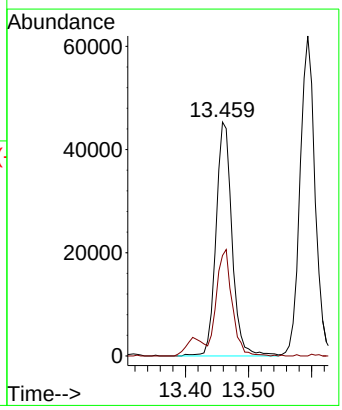
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

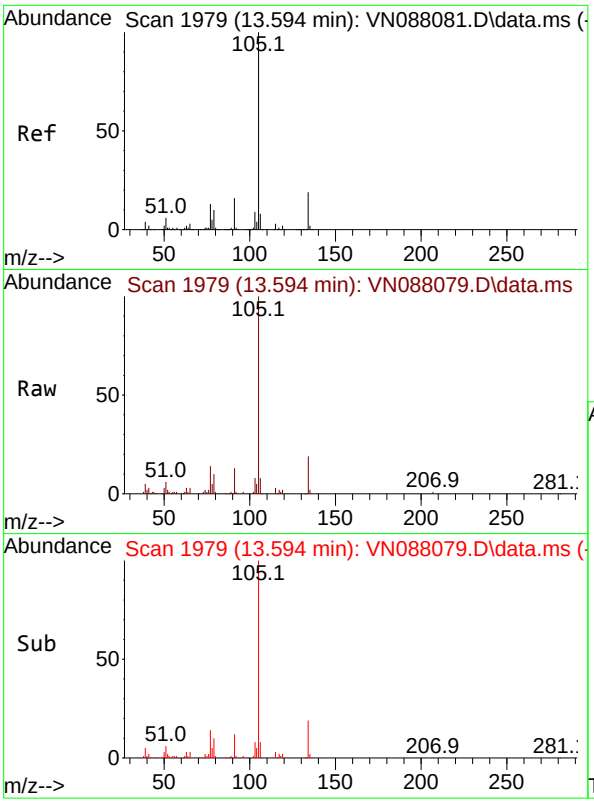


#84
1,2,4-Trimethylbenzene
Concen: 5.175 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:105 Resp: 80008

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.0	66.0

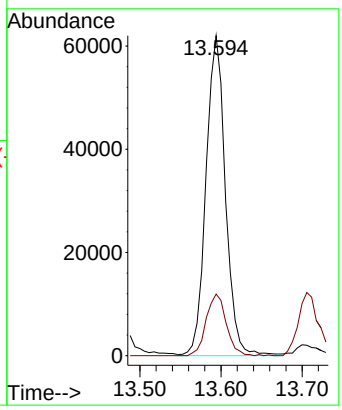




#85
sec-Butylbenzene
Concen: 5.083 ug/l
RT: 13.594 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:105 Resp: 10309

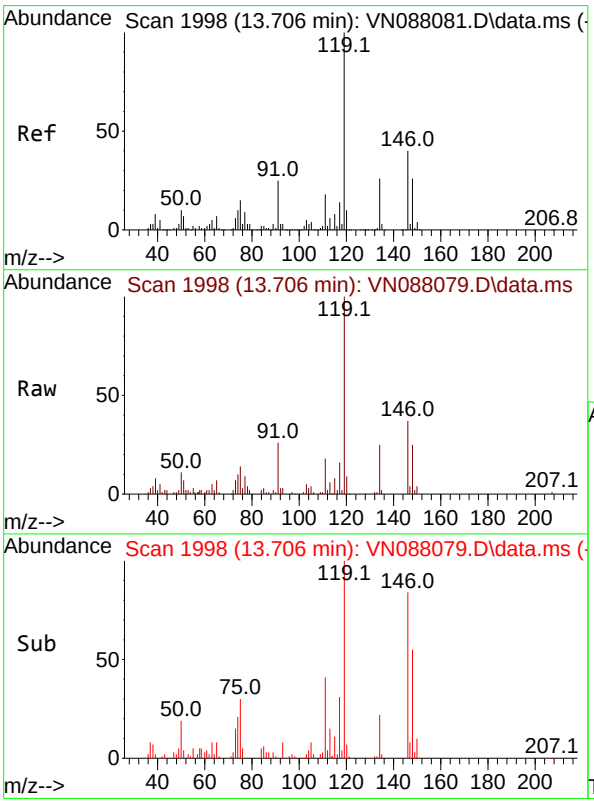
Ion	Ratio	Lower	Upper
105	100		
134	19.8	9.6	28.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

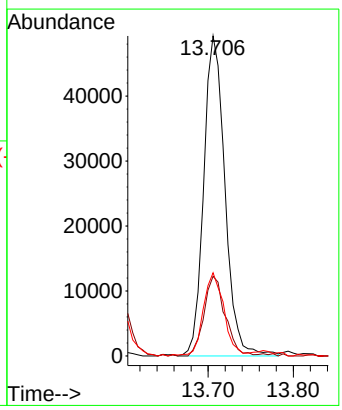
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

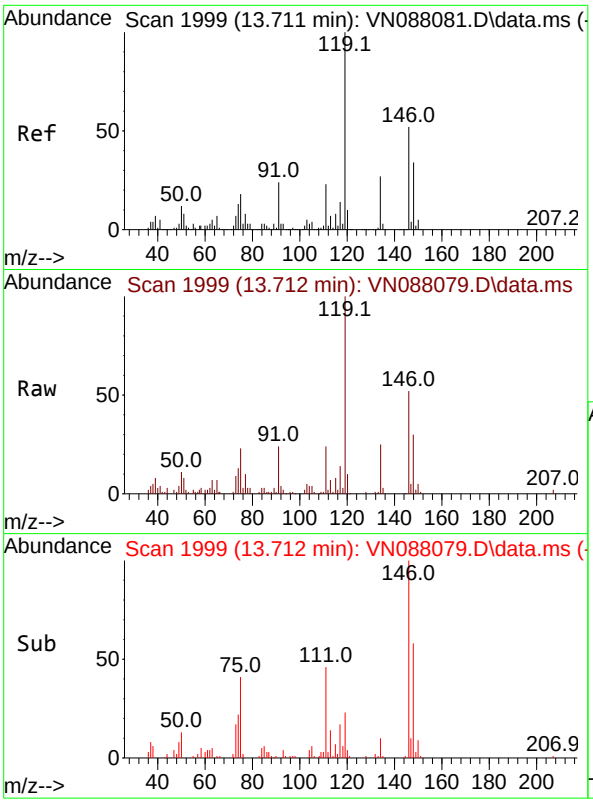


#86
p-Isopropyltoluene
Concen: 5.250 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:119 Resp: 85421

Ion	Ratio	Lower	Upper
119	100		
134	24.8	12.7	38.0
91	25.4	12.5	37.5

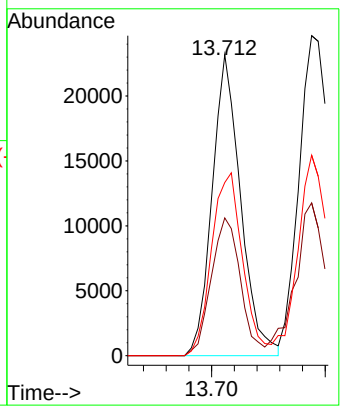




#87
1,3-Dichlorobenzene
Concen: 5.039 ug/l
RT: 13.712 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:146 Resp: 4036

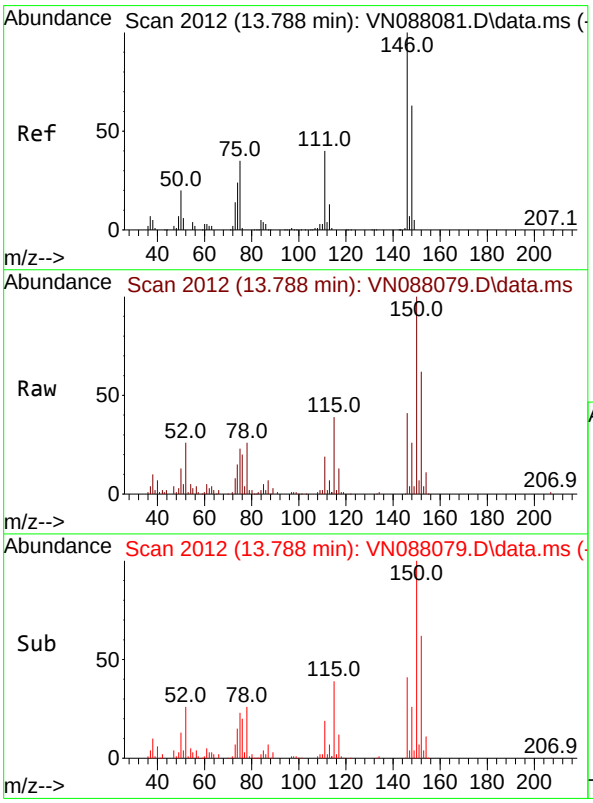
Ion	Ratio	Lower	Upper
146	100		
111	47.2	22.1	66.5
148	66.5	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

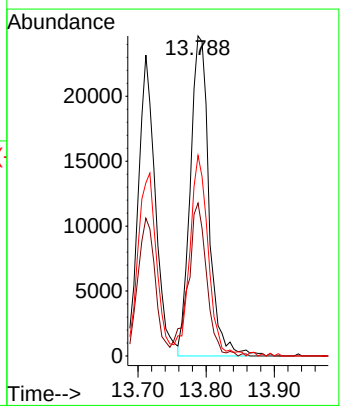
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

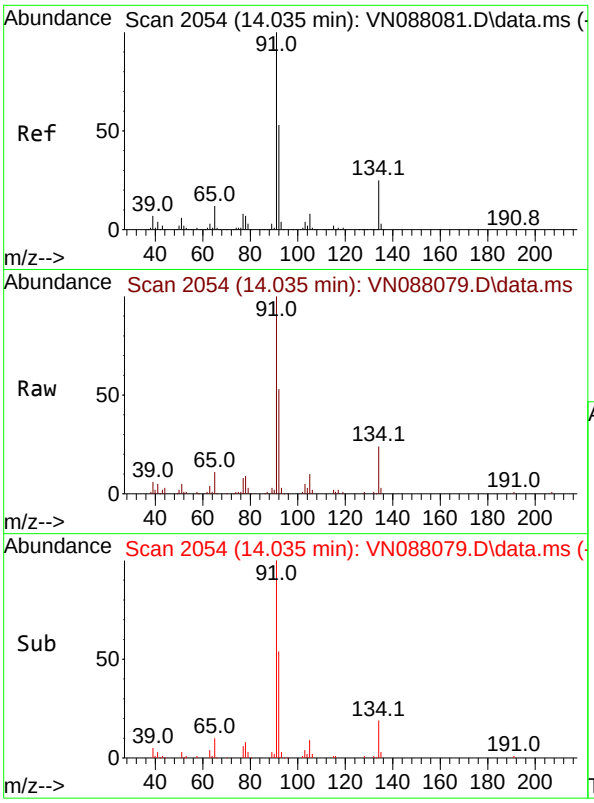


#88
1,4-Dichlorobenzene
Concen: 5.462 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:146 Resp: 47112

Ion	Ratio	Lower	Upper
146	100		
111	47.3	21.0	63.0
148	61.5	32.0	96.0





#89
n-Butylbenzene
Concen: 5.146 ug/l
RT: 14.035 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

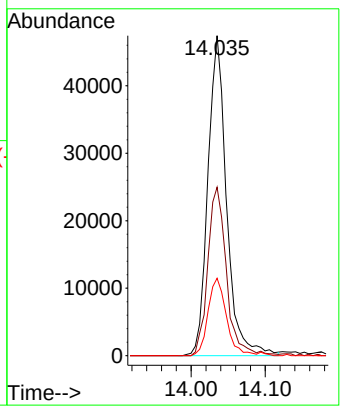
Tgt Ion: 91 Resp: 8293

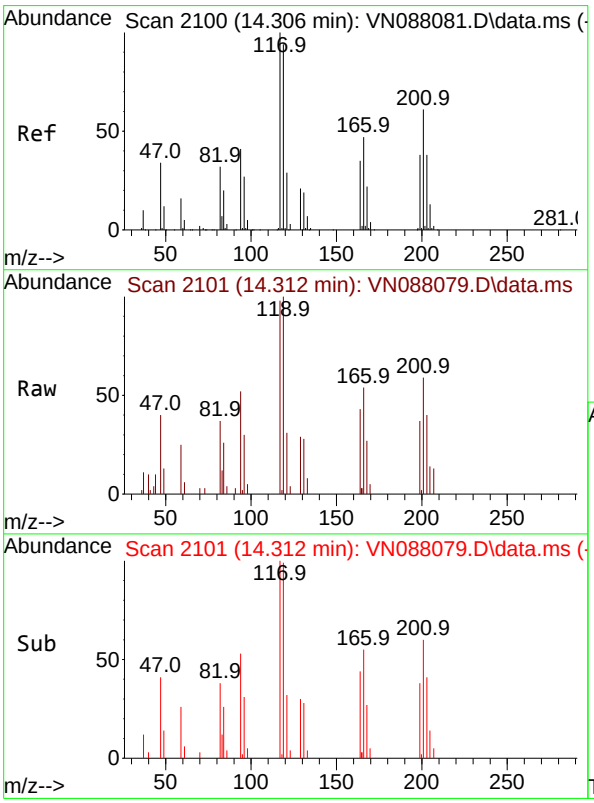
Ion	Ratio	Lower	Upper
91	100		
92	52.7	25.9	77.8
134	23.8	11.7	35.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

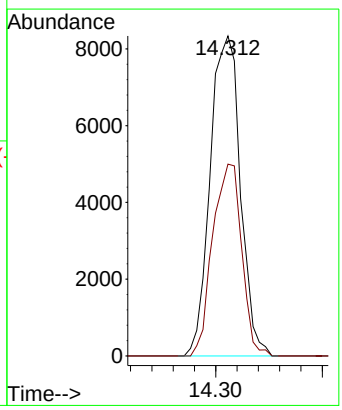


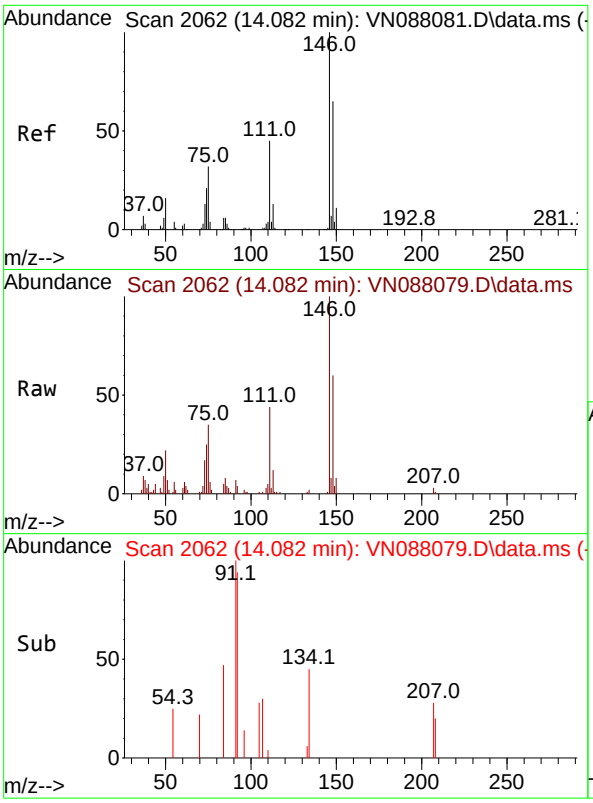


#90
Hexachloroethane
Concen: 5.202 ug/l
RT: 14.312 min Scan# 2101
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:117 Resp: 16391

Ion	Ratio	Lower	Upper
117	100		
201	57.6	29.1	87.4

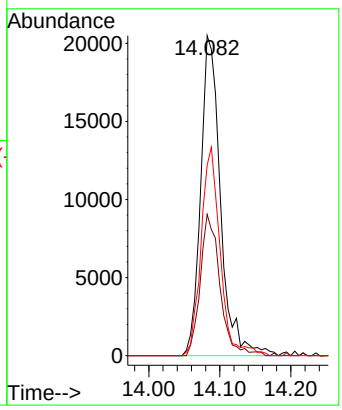




#91
1,2-Dichlorobenzene
Concen: 5.162 ug/l
RT: 14.082 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:146 Resp: 3985

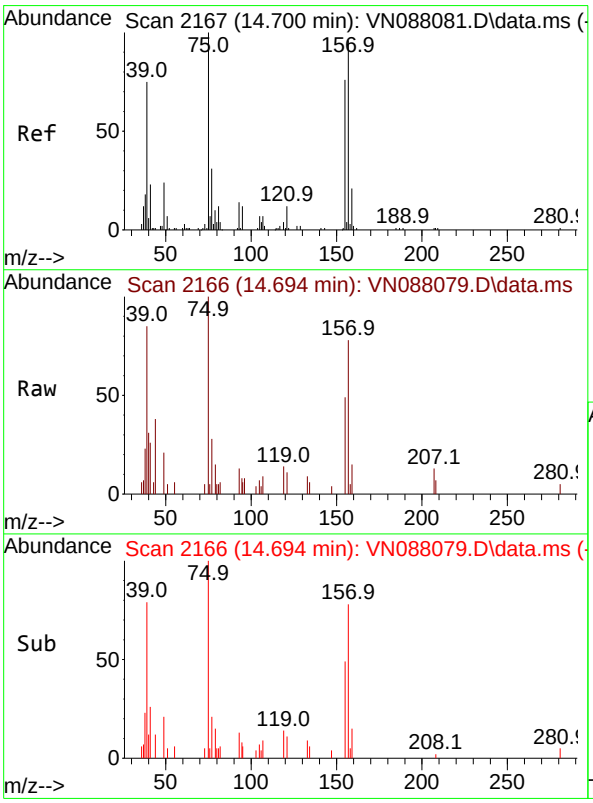
Ion	Ratio	Lower	Upper
146	100		
111	43.8	22.6	67.8
148	62.8	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

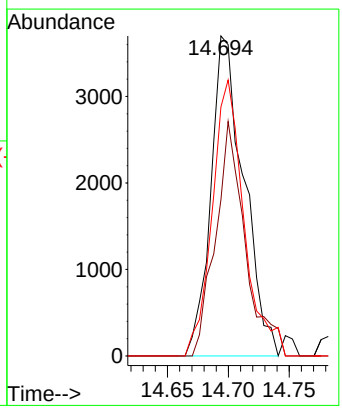
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

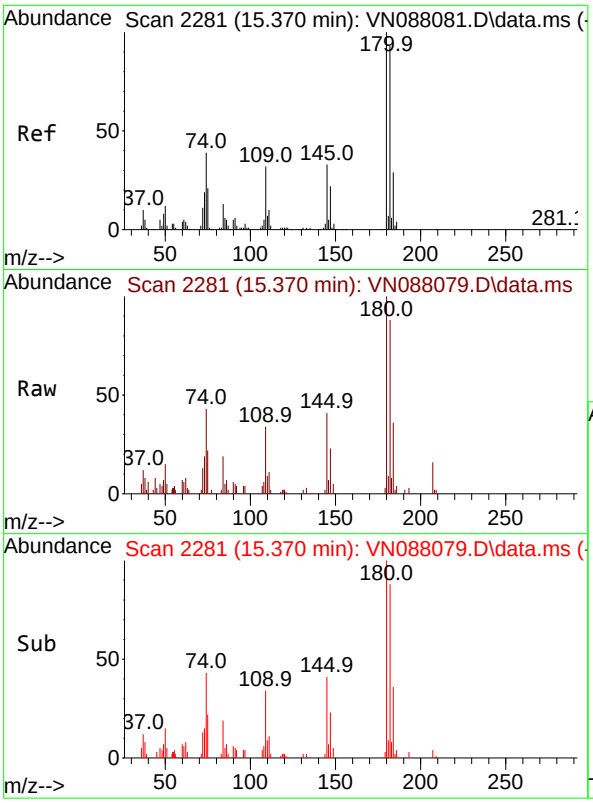


#92
1,2-Dibromo-3-Chloropropane
Concen: 5.165 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. -0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion: 75 Resp: 6964

Ion	Ratio	Lower	Upper
75	100		
155	66.1	36.6	109.9
157	83.5	45.6	136.9

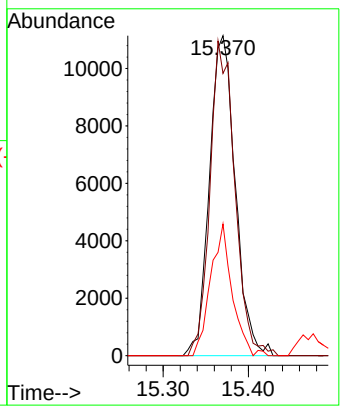




#93
1,2,4-Trichlorobenzene
Concen: 5.036 ug/l
RT: 15.370 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:180 Resp: 2354

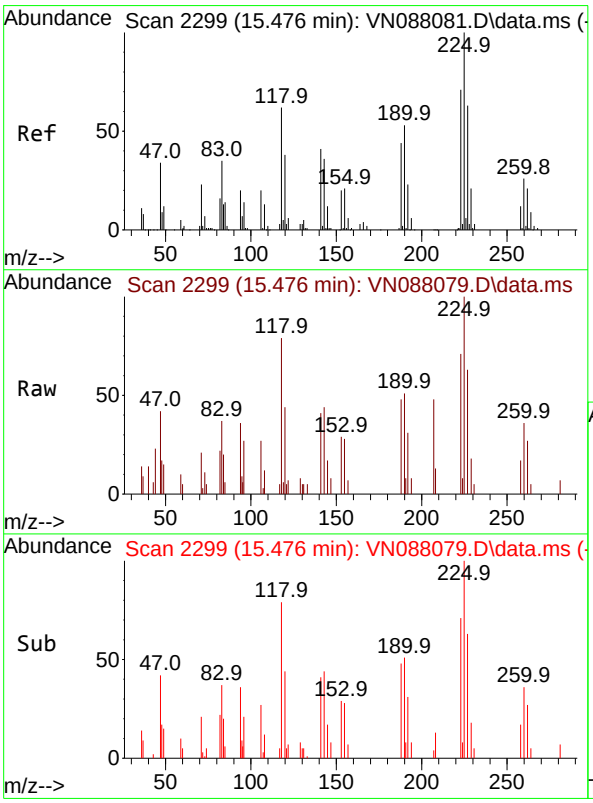
Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.6	142.9
145	34.4	16.5	49.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

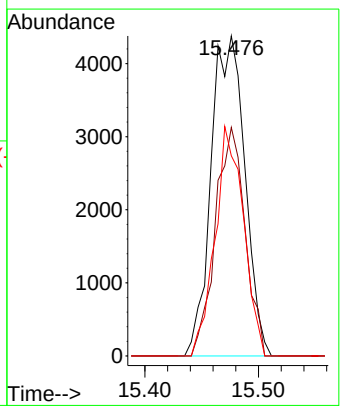
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

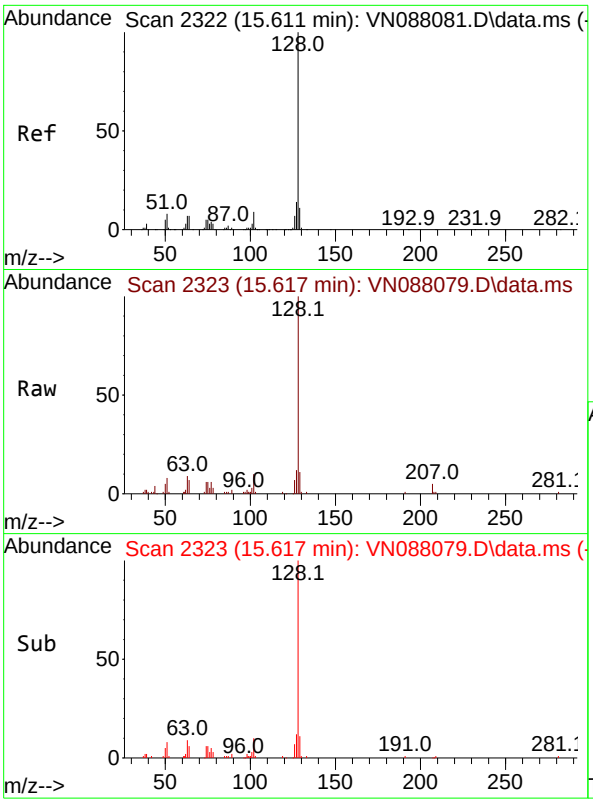


#94
Hexachlorobutadiene
Concen: 5.185 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. -0.000 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:225 Resp: 9028

Ion	Ratio	Lower	Upper
225	100		
223	62.8	32.0	96.2
227	60.4	32.1	96.5

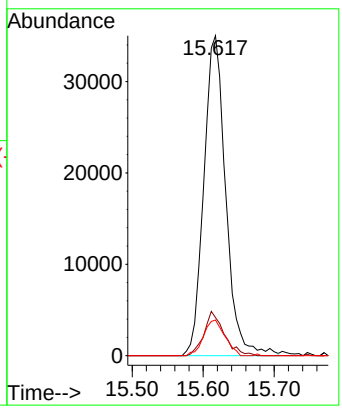




#95
Naphthalene
Concen: 4.684 ug/l
RT: 15.617 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:128 Resp: 7503

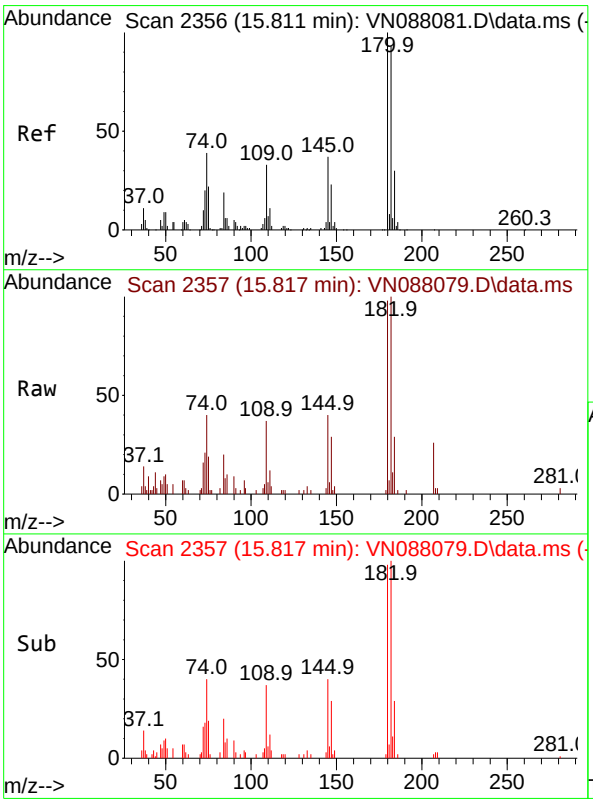
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.6	15.8
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

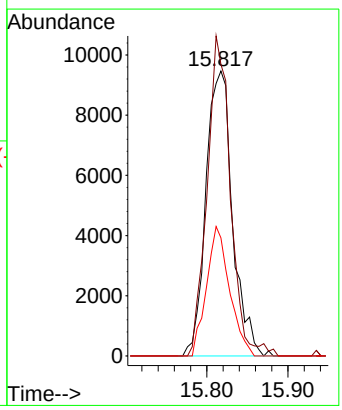
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.812 ug/l
RT: 15.817 min Scan# 2357
Delta R.T. 0.006 min
Lab File: VN088079.D
Acq: 23 Oct 2025 10:38

Tgt Ion:180 Resp: 21577

Ion	Ratio	Lower	Upper
180	100		
182	99.0	46.8	140.3
145	39.3	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088080.D
Acq On : 23 Oct 2025 10:59
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 24 02:52:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:50:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	282090	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	546178	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	485620	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	241242	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	103292	21.175	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 42.360%#			
35) Dibromofluoromethane	8.147	113	75221	20.500	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 41.000%#			
50) Toluene-d8	10.547	98	283564	20.057	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 40.120%#			
62) 4-Bromofluorobenzene	12.829	95	99923	20.012	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 40.020%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	67069	21.078	ug/l	97
3) Chloromethane	2.383	50	81817	21.856	ug/l	96
4) Vinyl Chloride	2.536	62	88776	21.765	ug/l	98
5) Bromomethane	2.983	94	54697	22.420	ug/l	99
6) Chloroethane	3.136	64	62949	21.421	ug/l	93
7) Trichlorofluoromethane	3.512	101	140569	21.608	ug/l	95
8) Diethyl Ether	3.971	74	51299	21.217	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.365	101	69023	20.561	ug/l	98
10) Methyl Iodide	4.583	142	62029	21.370	ug/l	97
11) Tert butyl alcohol	5.524	59	95809	114.009	ug/l	97
12) 1,1-Dichloroethene	4.342	96	71244	20.094	ug/l	97
13) Acrolein	4.183	56	97190	102.818	ug/l	99
14) Allyl chloride	5.012	41	124762	20.136	ug/l	98
15) Acrylonitrile	5.706	53	254966	111.383	ug/l	98
16) Acetone	4.424	43	248513	101.409	ug/l	96
17) Carbon Disulfide	4.706	76	223844	20.769	ug/l	99
18) Methyl Acetate	5.018	43	110595	22.044	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	281317	21.605	ug/l	94
20) Methylene Chloride	5.265	84	87400	23.333	ug/l	97
21) trans-1,2-Dichloroethene	5.771	96	80726	20.591	ug/l	95
22) Diisopropyl ether	6.653	45	298356	22.828	ug/l	96
23) Vinyl Acetate	6.589	43	1346497	114.374	ug/l	100
24) 1,1-Dichloroethane	6.559	63	159981	22.098	ug/l	97
25) 2-Butanone	7.471	43	360240	112.706	ug/l	96
26) 2,2-Dichloropropane	7.471	77	139276	21.169	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	97968	21.866	ug/l	100
28) Bromochloromethane	7.800	49	61975	18.117	ug/l	99
29) Tetrahydrofuran	7.824	42	237998	113.080	ug/l	99
30) Chloroform	7.947	83	158515	21.917	ug/l	99
31) Cyclohexane	8.236	56	146770	21.495	ug/l	96
32) 1,1,1-Trichloroethane	8.153	97	140074	21.745	ug/l	92
36) 1,1-Dichloropropene	8.353	75	115884	21.630	ug/l	99
37) Ethyl Acetate	7.547	43	147787	21.466	ug/l	99
38) Carbon Tetrachloride	8.341	117	117435	21.223	ug/l	90
39) Methylcyclohexane	9.583	83	138414	20.099	ug/l	96
40) Benzene	8.588	78	351627	21.551	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088080.D
Acq On : 23 Oct 2025 10:59
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 24 02:52:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:50:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.765	41	77407	21.272	ug/l		100
42) 1,2-Dichloroethane	8.653	62	128925	22.239	ug/l		99
43) Isopropyl Acetate	8.677	43	232810	21.914	ug/l		97
44) Trichloroethene	9.330	130	81811	21.452	ug/l		88
45) 1,2-Dichloropropane	9.600	63	86639	21.033	ug/l		97
46) Dibromomethane	9.688	93	64404	21.923	ug/l		99
47) Bromodichloromethane	9.871	83	128781	21.895	ug/l		95
48) Methyl methacrylate	9.659	41	106892	21.182	ug/l		97
49) 1,4-Dioxane	9.677	88	28059	459.958	ug/l	#	94
51) 4-Methyl-2-Pentanone	10.424	43	706841	112.466	ug/l		99
52) Toluene	10.606	92	216580	21.530	ug/l		97
53) t-1,3-Dichloropropene	10.818	75	135097	21.581	ug/l		94
54) cis-1,3-Dichloropropene	10.294	75	142472	21.447	ug/l		98
55) 1,1,2-Trichloroethane	10.994	97	81773	21.426	ug/l		97
56) Ethyl methacrylate	10.859	69	129419	21.460	ug/l		99
57) 1,3-Dichloropropane	11.141	76	147164	21.938	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.141	63	326199	103.833	ug/l		99
59) 2-Hexanone	11.177	43	456992	110.762	ug/l		96
60) Dibromochloromethane	11.335	129	94659	21.821	ug/l		97
61) 1,2-Dibromoethane	11.447	107	83824	21.341	ug/l		97
64) Tetrachloroethene	11.082	164	65019	20.298	ug/l		94
65) Chlorobenzene	11.871	112	233976	21.219	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.941	131	76803	21.259	ug/l		97
67) Ethyl Benzene	11.941	91	412481	21.311	ug/l		98
68) m/p-Xylenes	12.047	106	312179	43.046	ug/l		98
69) o-Xylene	12.376	106	148393	21.585	ug/l		99
70) Styrene	12.388	104	247794	22.103	ug/l		98
71) Bromoform	12.559	173	57194	21.214	ug/l	#	94
73) Isopropylbenzene	12.671	105	392471	21.093	ug/l		98
74) N-amyl acetate	12.671	43	95839m	17.796	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.918	83	128906	22.253	ug/l		98
76) 1,2,3-Trichloropropane	12.971	75	102475m	19.844	ug/l		
77) Bromobenzene	12.959	156	89317	22.261	ug/l		93
78) n-propylbenzene	13.012	91	475747	20.952	ug/l		98
79) 2-Chlorotoluene	13.100	91	286955	22.160	ug/l		100
80) 1,3,5-Trimethylbenzene	13.153	105	326659	21.139	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.718	75	38485	19.415	ug/l		84
82) 4-Chlorotoluene	13.200	91	300449	21.446	ug/l		99
83) tert-Butylbenzene	13.412	119	289688	20.986	ug/l		97
84) 1,2,4-Trimethylbenzene	13.459	105	334370	21.627	ug/l		99
85) sec-Butylbenzene	13.594	105	422803	20.848	ug/l		99
86) p-Isopropyltoluene	13.706	119	347584	21.364	ug/l		99
87) 1,3-Dichlorobenzene	13.712	146	175823	21.951	ug/l		98
88) 1,4-Dichlorobenzene	13.788	146	179756	20.841	ug/l		99
89) n-Butylbenzene	14.035	91	337053	20.915	ug/l		99
90) Hexachloroethane	14.306	117	64770	20.558	ug/l		99
91) 1,2-Dichlorobenzene	14.082	146	161912	20.971	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.694	75	29025	21.527	ug/l		97
93) 1,2,4-Trichlorobenzene	15.370	180	95446	20.412	ug/l		99
94) Hexachlorobutadiene	15.476	225	35960	20.651	ug/l		96
95) Naphthalene	15.612	128	331649	20.704	ug/l		100
96) 1,2,3-Trichlorobenzene	15.812	180	90374	20.157	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088080.D
Acq On : 23 Oct 2025 10:59
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 24 02:52:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:50:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

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

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

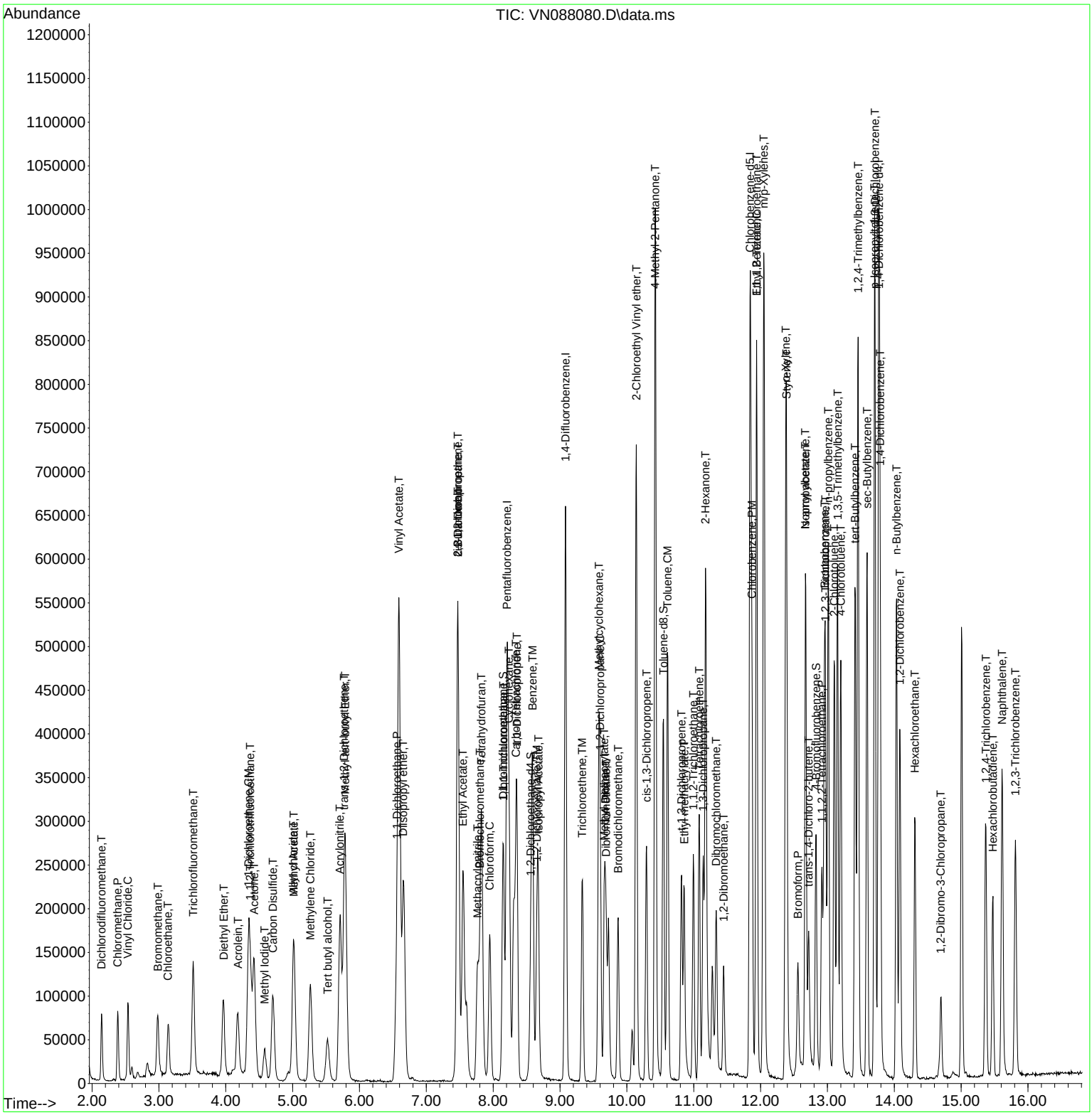
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088080.D
Acq On : 23 Oct 2025 10:59
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

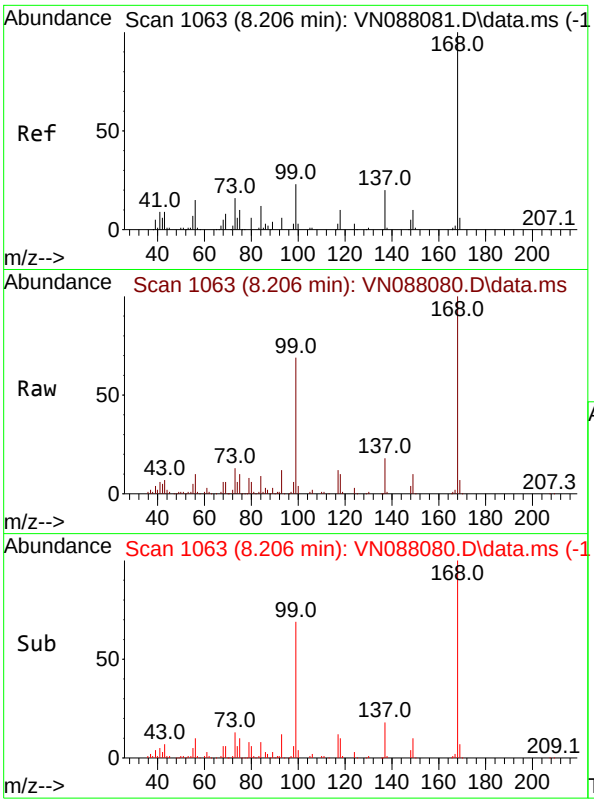
Quant Time: Oct 24 02:52:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:50:29 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

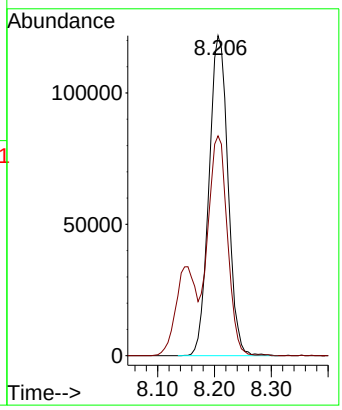




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:168 Resp: 28209

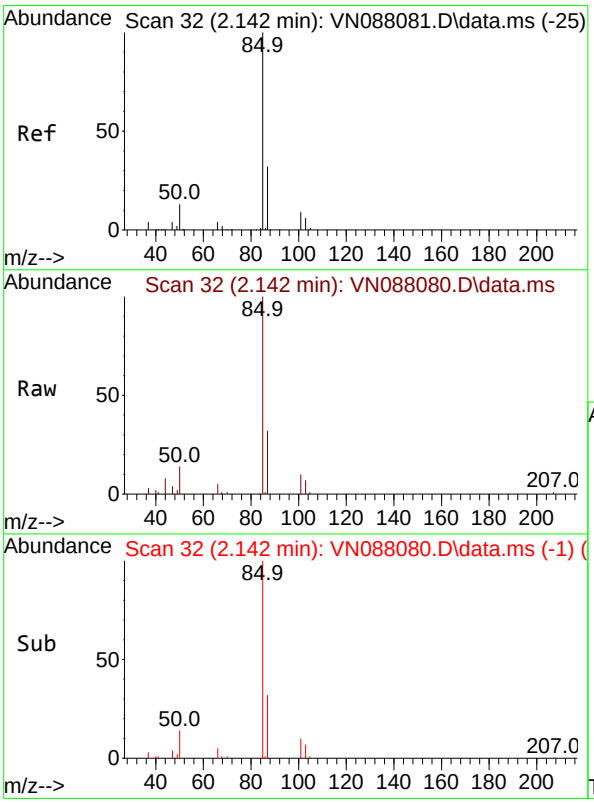
Ion	Ratio	Lower	Upper
168	100		
99	68.7	57.2	85.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

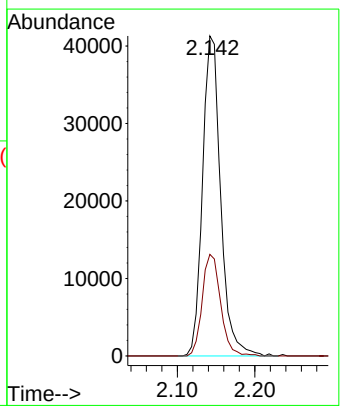
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

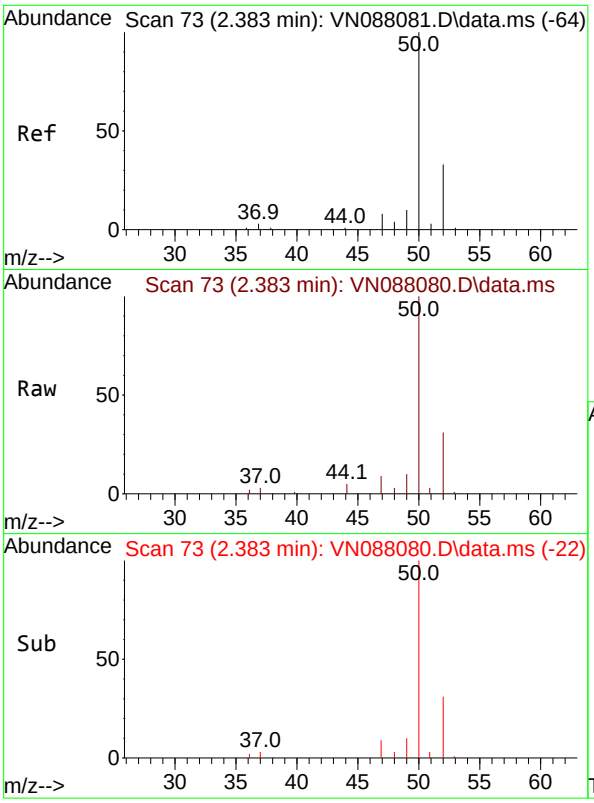


#2
Dichlorodifluoromethane
Concen: 21.078 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 85 Resp: 67069

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.6	49.8

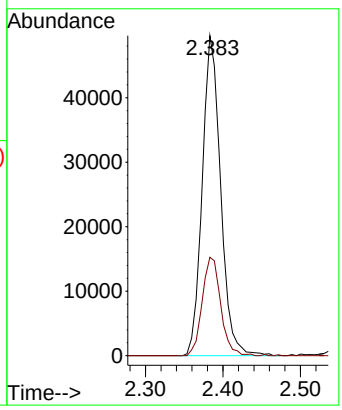




#3
Chloromethane
Concen: 21.856 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 50 Resp: 8181

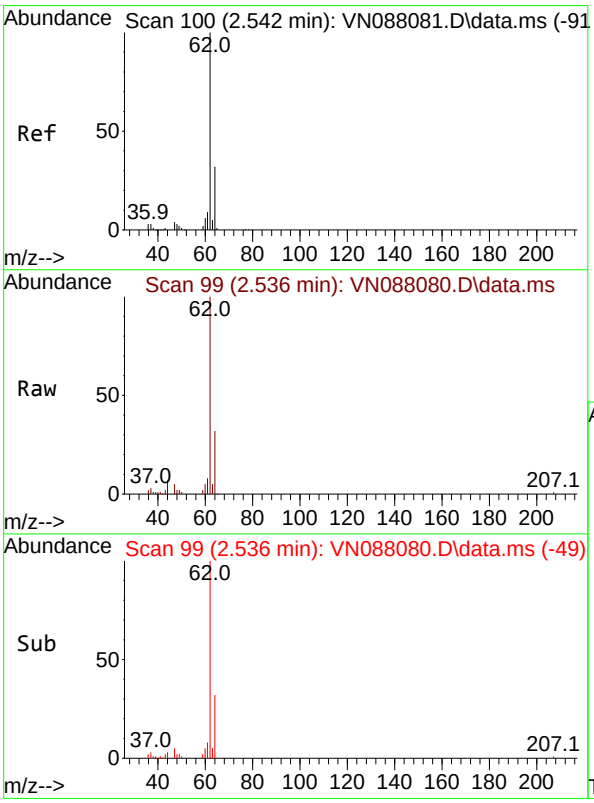
Ion	Ratio	Lower	Upper
50	100		
52	30.8	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

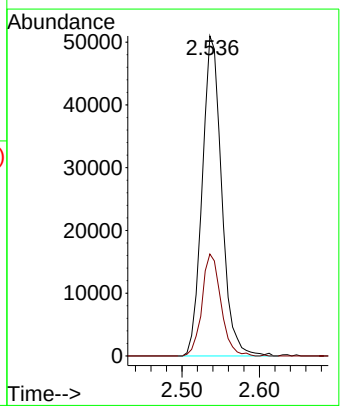
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

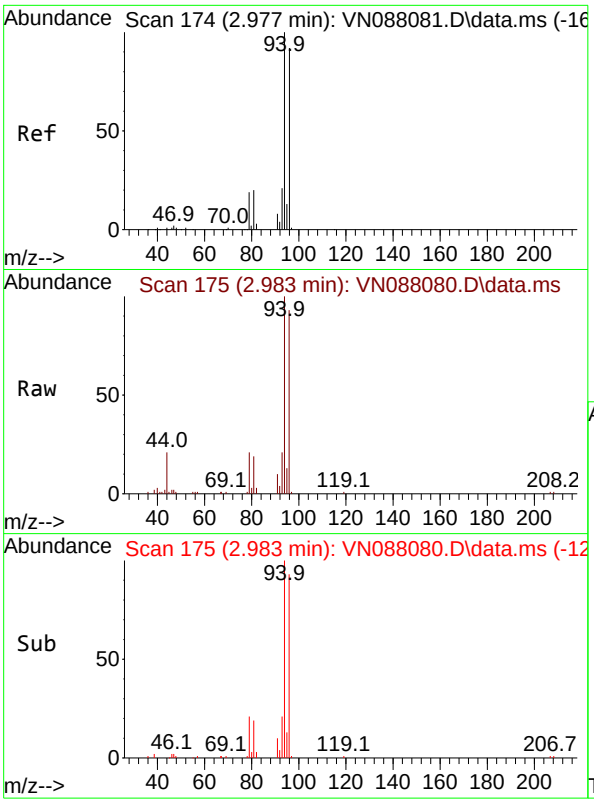


#4
Vinyl Chloride
Concen: 21.765 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 62 Resp: 88776

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.6	37.0

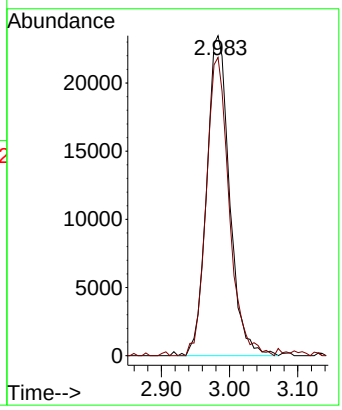




#5
Bromomethane
Concen: 22.420 ug/l
RT: 2.983 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 94 Resp: 5469

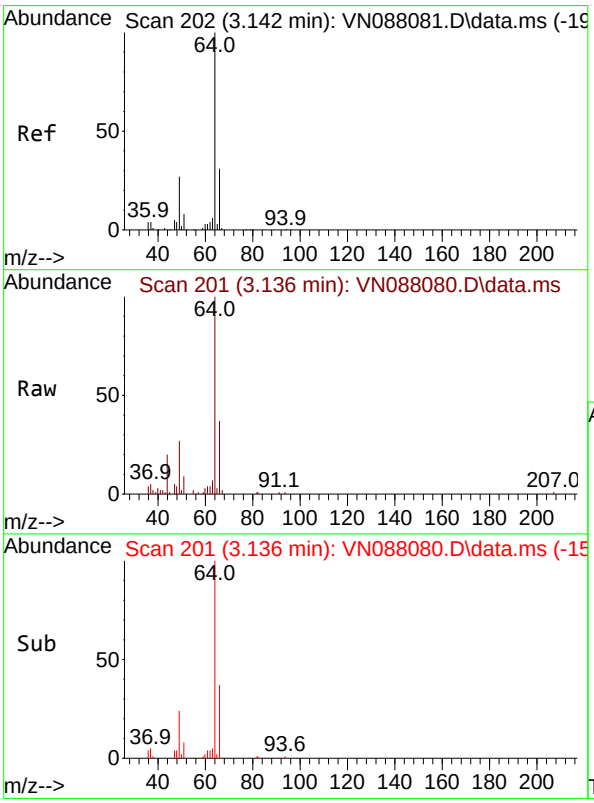
Ion	Ratio	Lower	Upper
94	100		
96	93.2	75.4	113.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

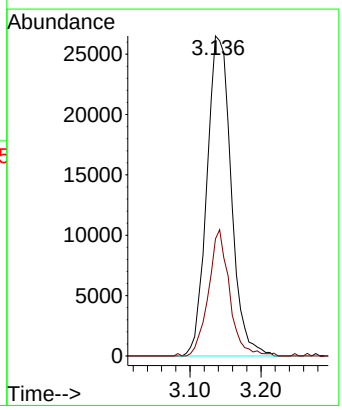
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

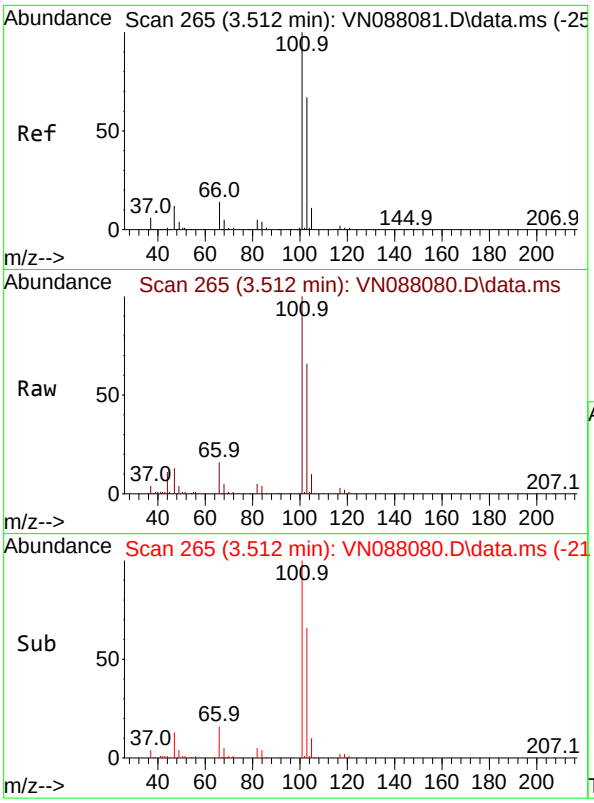


#6
Chloroethane
Concen: 21.421 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 64 Resp: 62949

Ion	Ratio	Lower	Upper
64	100		
66	36.6	26.2	39.2

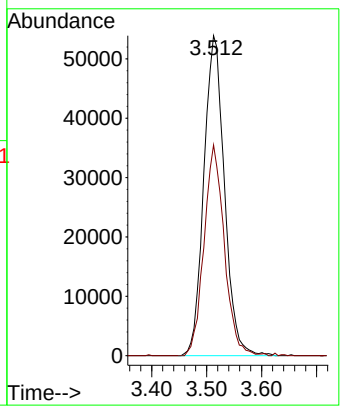




#7
Trichlorofluoromethane
Concen: 21.608 ug/l
RT: 3.512 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:101 Resp: 14056

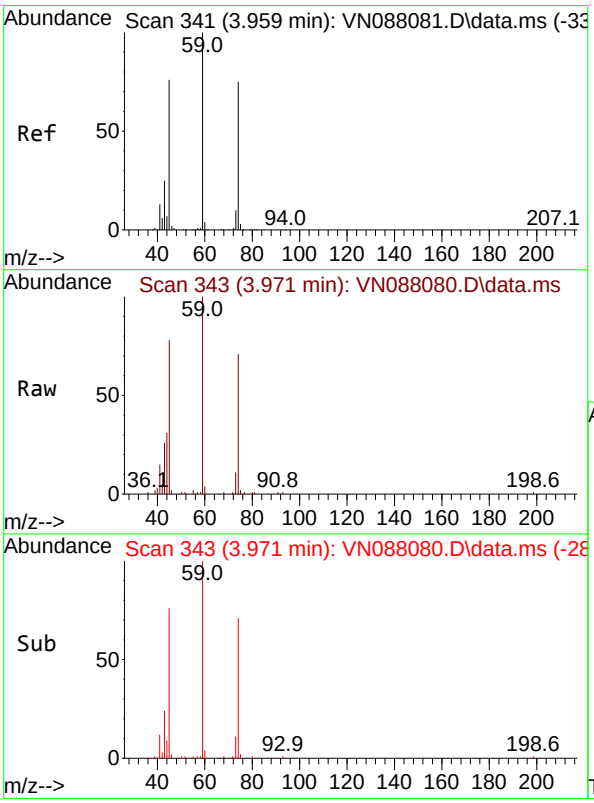
Ion	Ratio	Lower	Upper
101	100		
103	65.8	49.4	74.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

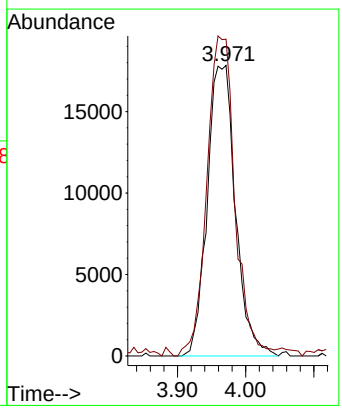
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

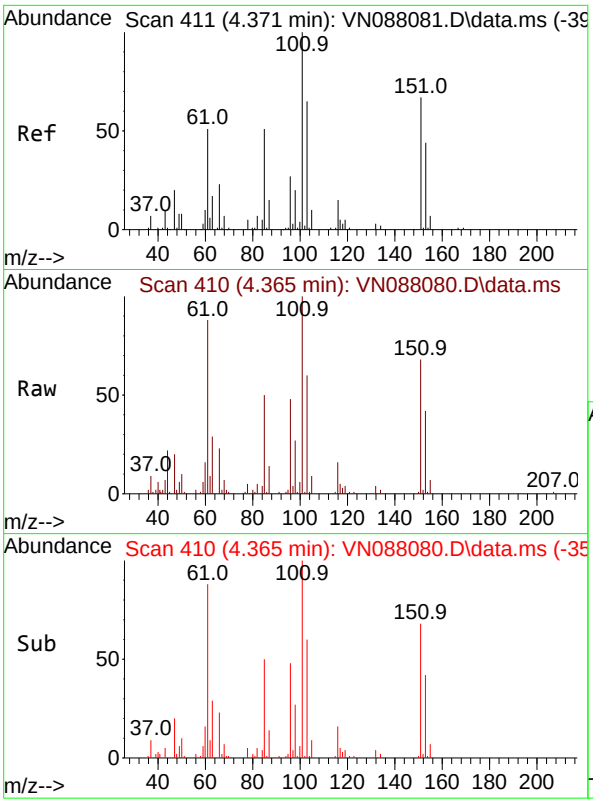


#8
Diethyl Ether
Concen: 21.217 ug/l
RT: 3.971 min Scan# 343
Delta R.T. 0.018 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 74 Resp: 51299

Ion	Ratio	Lower	Upper
74	100		
45	109.6	50.6	151.9





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.561 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

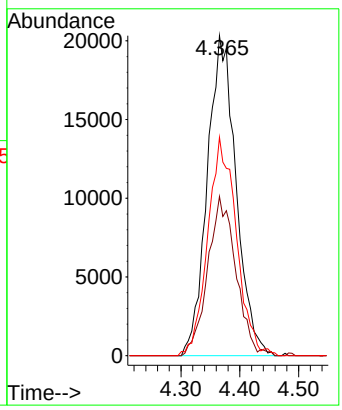
Tgt Ion:101 Resp: 6902

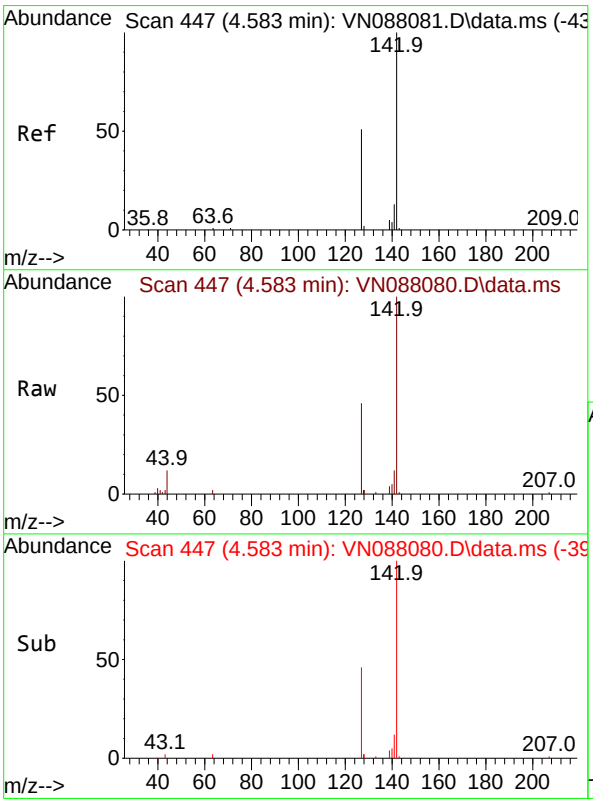
Ion	Ratio	Lower	Upper
101	100		
85	48.8	36.6	55.0
151	68.0	54.7	82.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

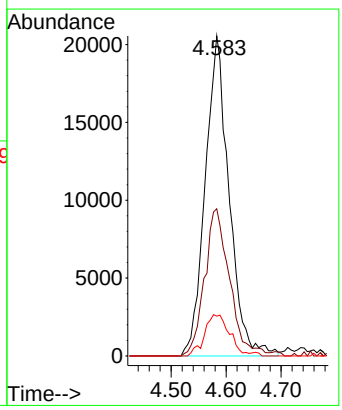


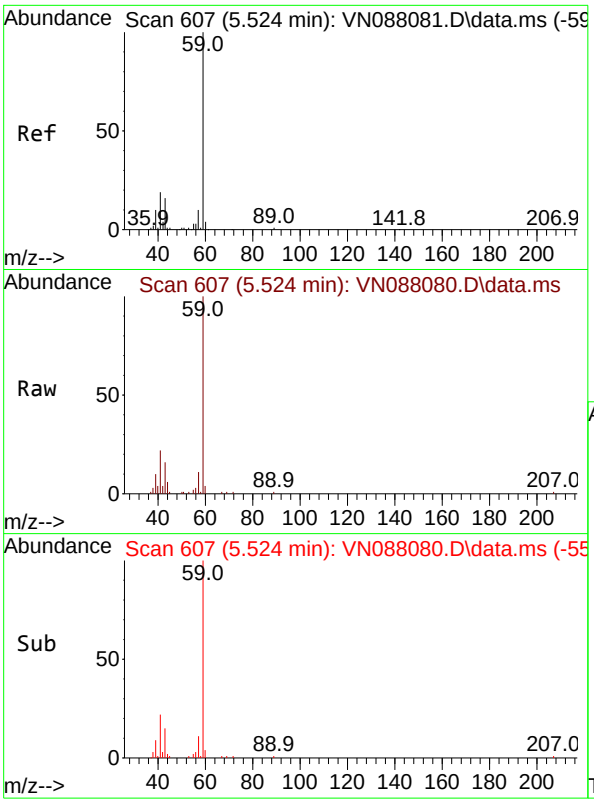


#10
Methyl Iodide
Concen: 21.370 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:142 Resp: 62029

Ion	Ratio	Lower	Upper
142	100		
127	46.0	38.0	57.0
141	12.5	12.0	18.0

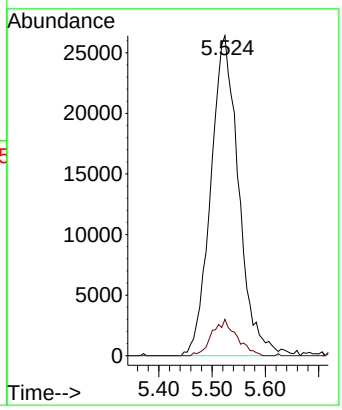




#11
Tert butyl alcohol
Concen: 114.009 ug/l
RT: 5.524 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 59 Resp: 9580

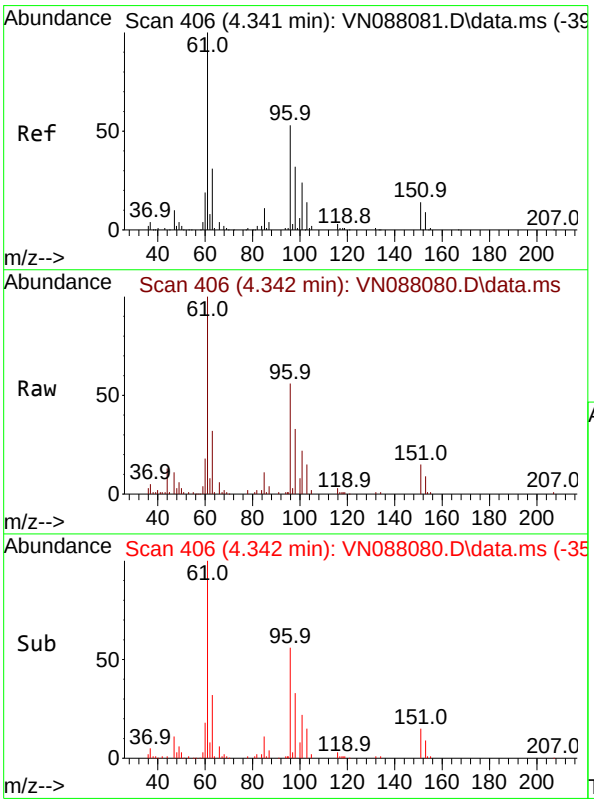
Ion	Ratio	Lower	Upper
59	100		
57	10.1	9.0	13.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

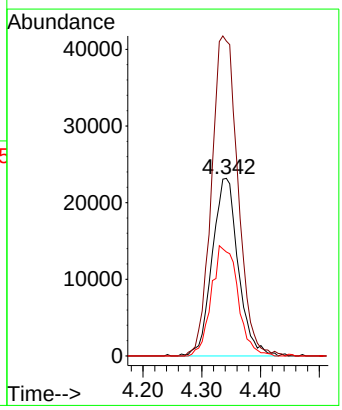
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

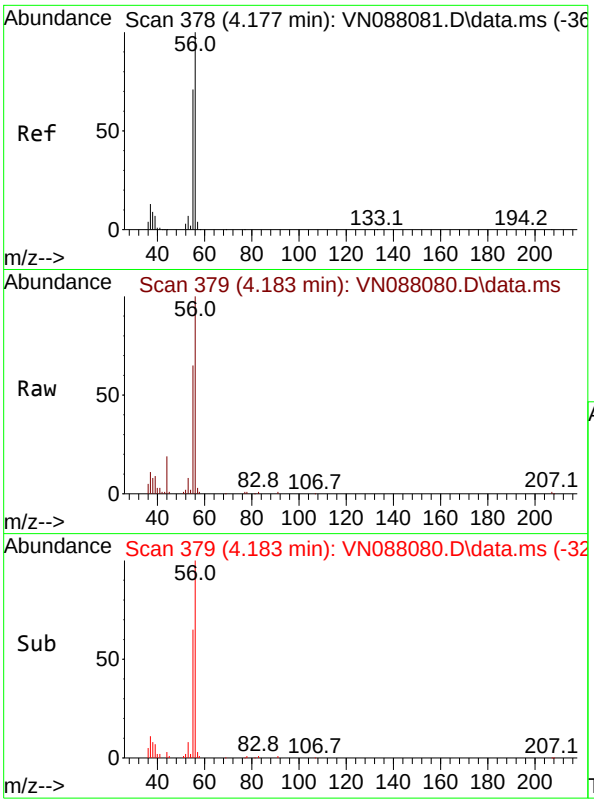


#12
1,1-Dichloroethene
Concen: 20.094 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 96 Resp: 71244

Ion	Ratio	Lower	Upper
96	100		
61	177.4	143.8	215.8
98	58.6	52.1	78.1

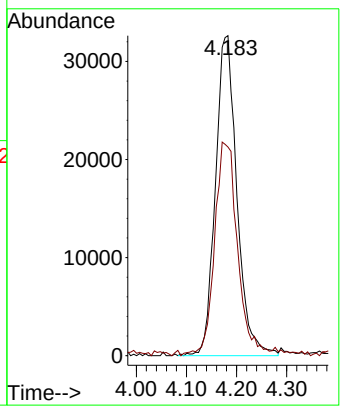




#13
Acrolein
Concen: 102.818 ug/l
RT: 4.183 min Scan# 3
Delta R.T. 0.012 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 56 Resp: 9719

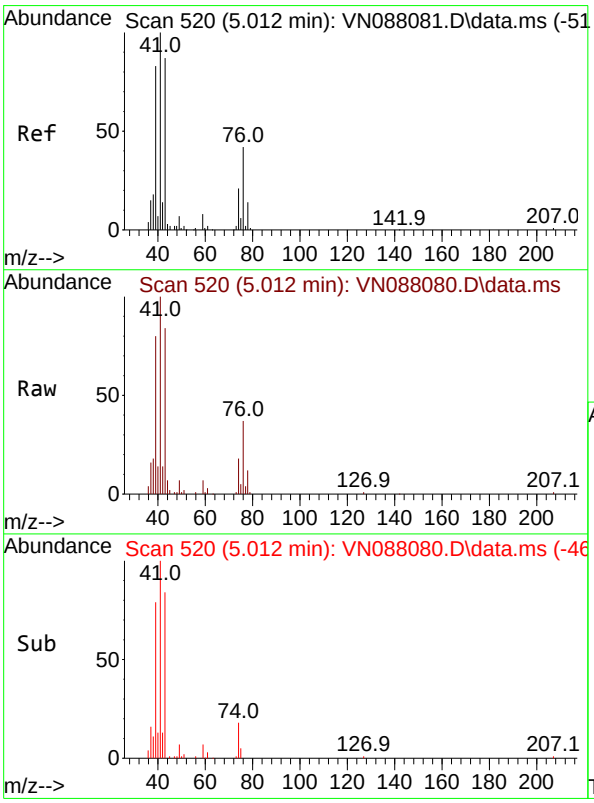
Ion	Ratio	Lower	Upper
56	100		
55	71.2	57.3	85.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

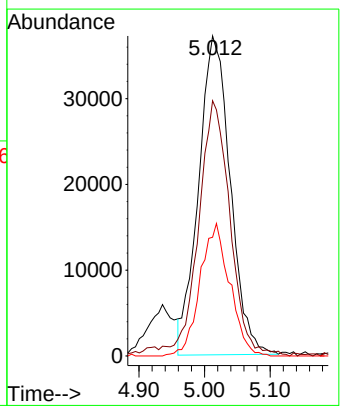
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

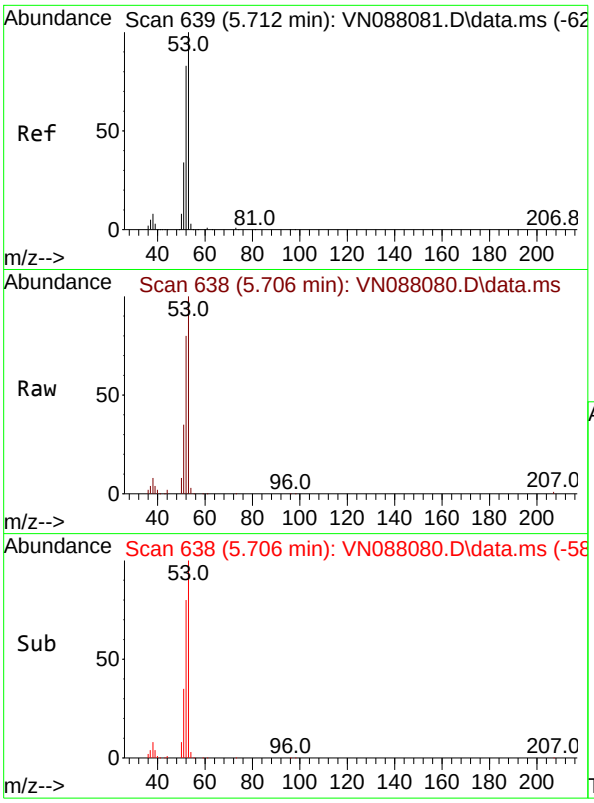


#14
Allyl chloride
Concen: 20.136 ug/l
RT: 5.012 min Scan# 520
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 41 Resp: 124762

Ion	Ratio	Lower	Upper
41	100		
39	79.6	63.9	95.9
76	38.9	28.1	42.1

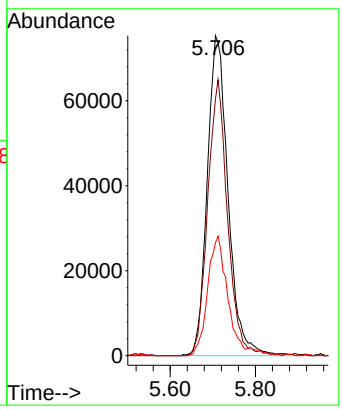




#15
Acrylonitrile
Concen: 111.383 ug/l
RT: 5.706 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 53 Resp: 25496

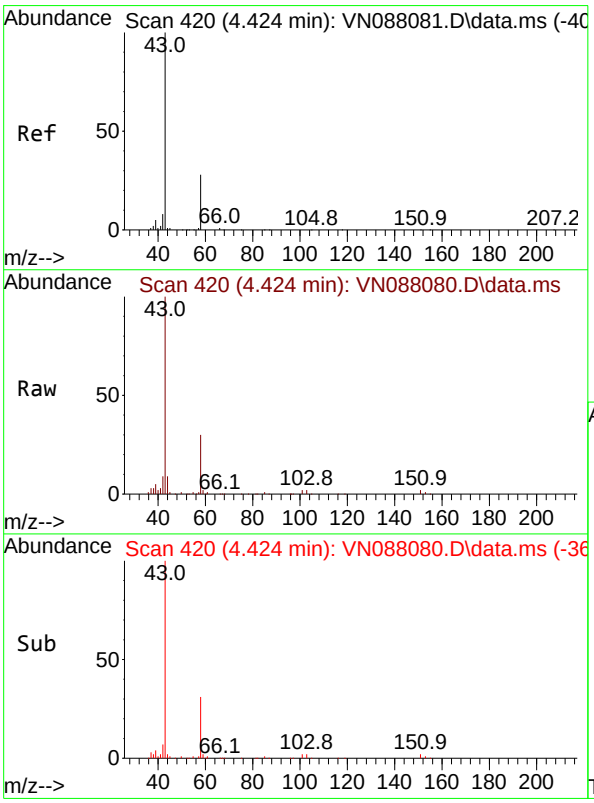
Ion	Ratio	Lower	Upper
53	100		
52	82.1	67.6	101.4
51	36.8	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

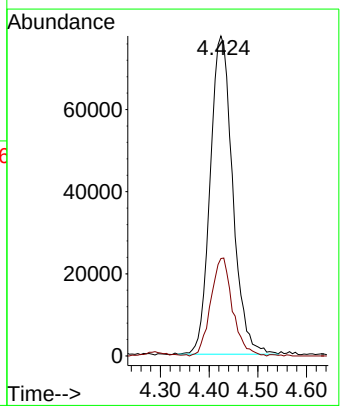
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

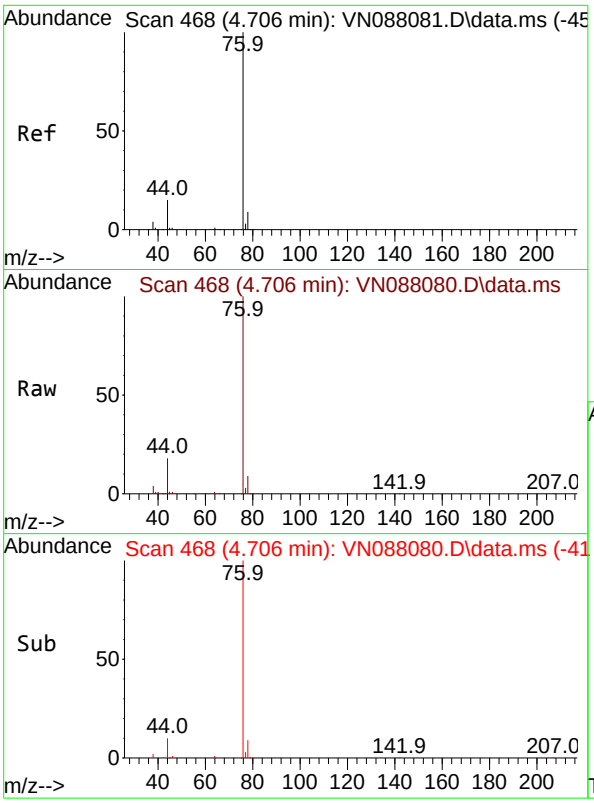


#16
Acetone
Concen: 101.409 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 43 Resp: 248513

Ion	Ratio	Lower	Upper
43	100		
58	30.4	22.6	33.8

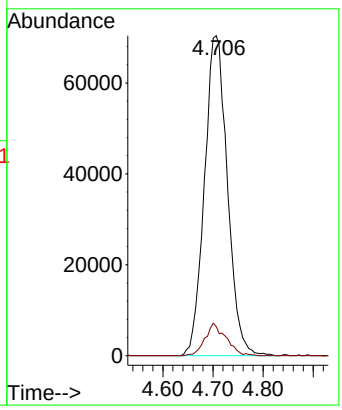




#17
Carbon Disulfide
Concen: 20.769 ug/l
RT: 4.706 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 76 Resp: 22384

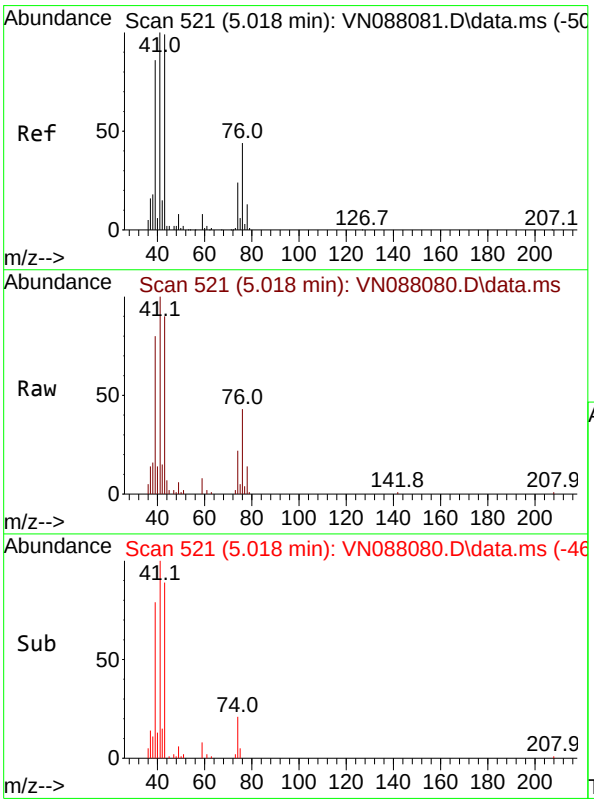
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.6	11.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

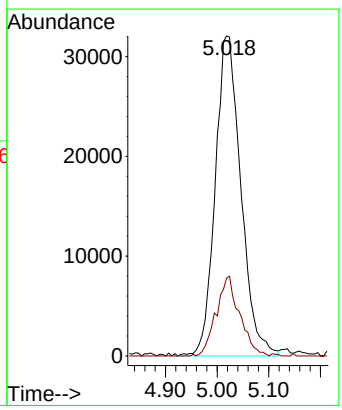
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

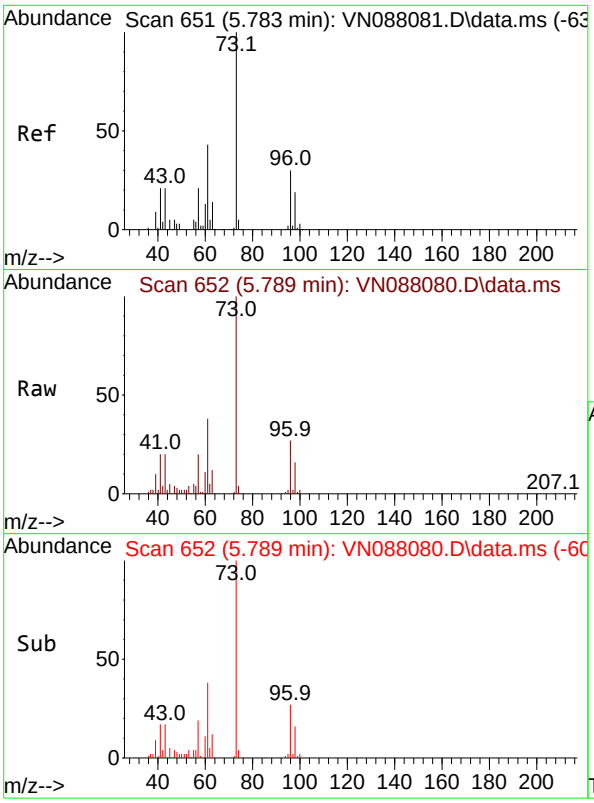


#18
Methyl Acetate
Concen: 22.044 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 43 Resp: 110595

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.6	26.4

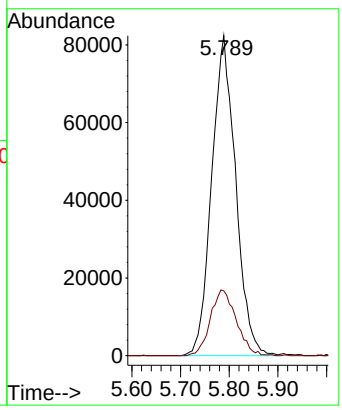




#19
Methyl tert-butyl Ether
Concen: 21.605 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 73 Resp: 28131

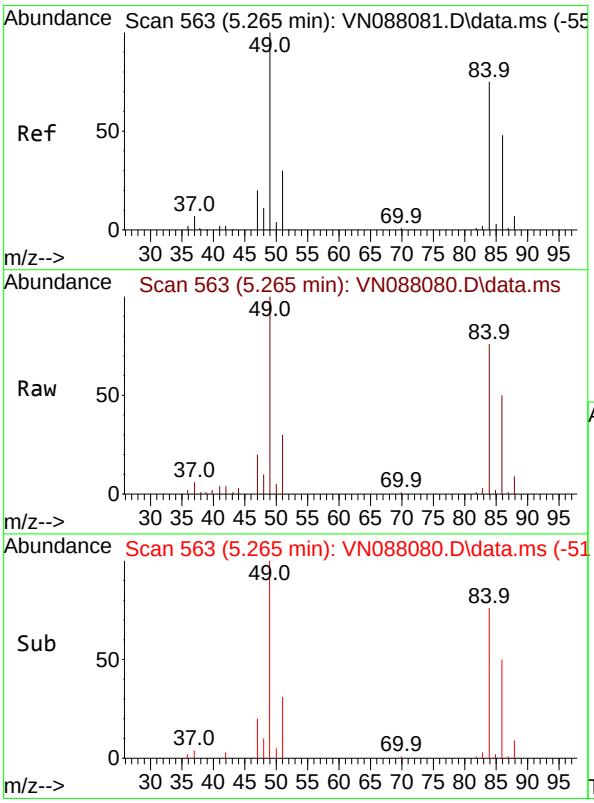
Ion	Ratio	Lower	Upper
73	100		
57	20.3	18.4	27.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

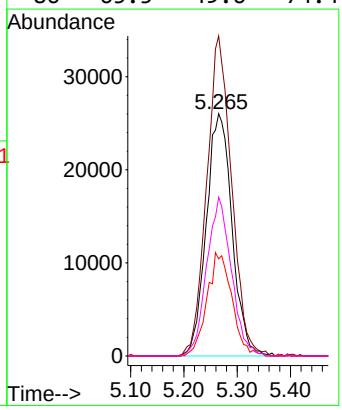
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

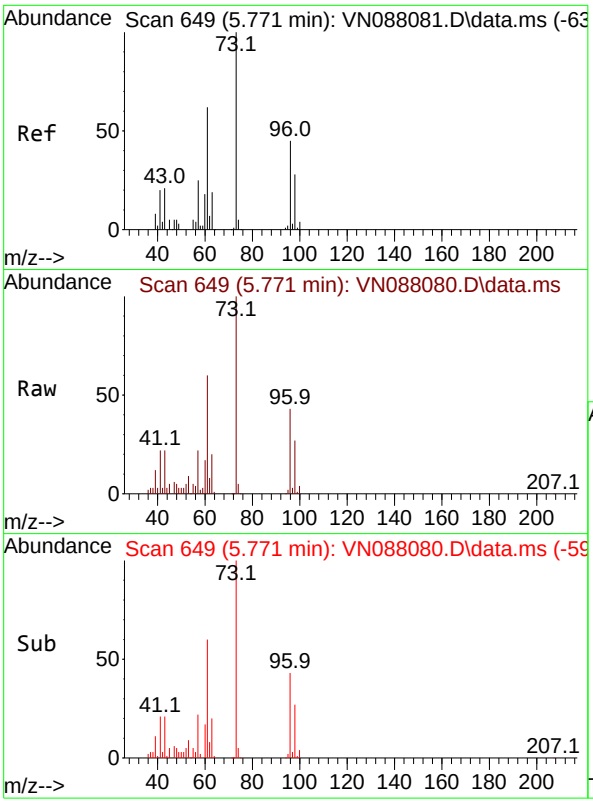


#20
Methylene Chloride
Concen: 23.333 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 84 Resp: 87400

Ion	Ratio	Lower	Upper
84	100		
49	132.1	103.4	155.2
51	40.1	33.8	50.8
86	65.5	49.6	74.4

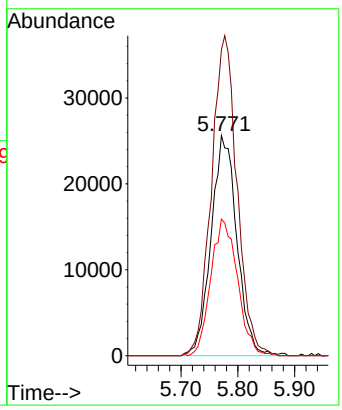




#21
trans-1,2-Dichloroethene
Concen: 20.591 ug/l
RT: 5.771 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 96 Resp: 8072

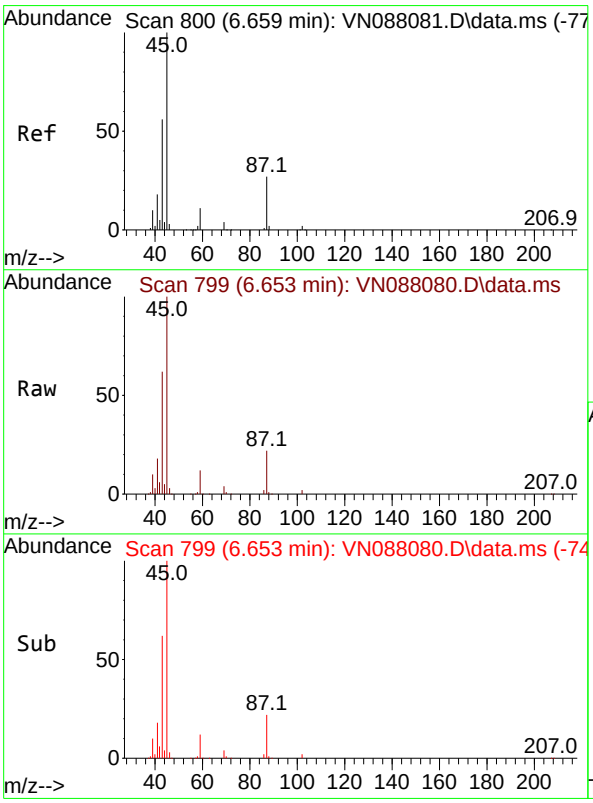
Ion	Ratio	Lower	Upper
96	100		
61	138.9	118.0	177.0
98	62.1	50.0	75.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

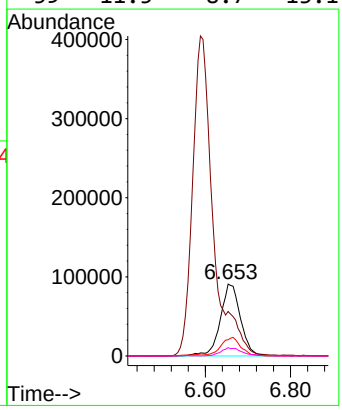
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

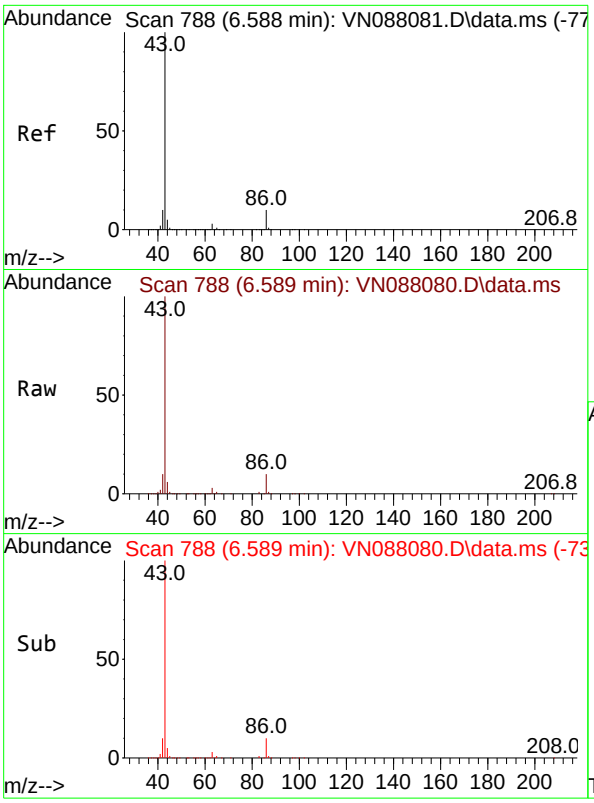


#22
Diisopropyl ether
Concen: 22.828 ug/l
RT: 6.653 min Scan# 799
Delta R.T. -0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 45 Resp: 298356

Ion	Ratio	Lower	Upper
45	100		
43	61.1	47.7	71.5
87	22.4	21.4	32.0
59	11.5	8.7	13.1

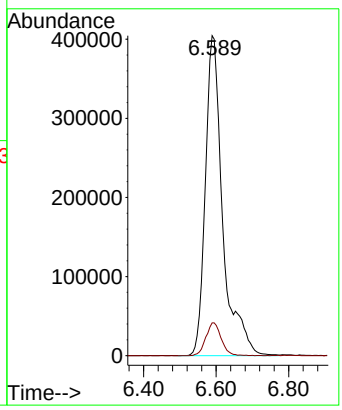




#23
Vinyl Acetate
Concen: 114.374 ug/l
RT: 6.589 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 43 Resp: 134649

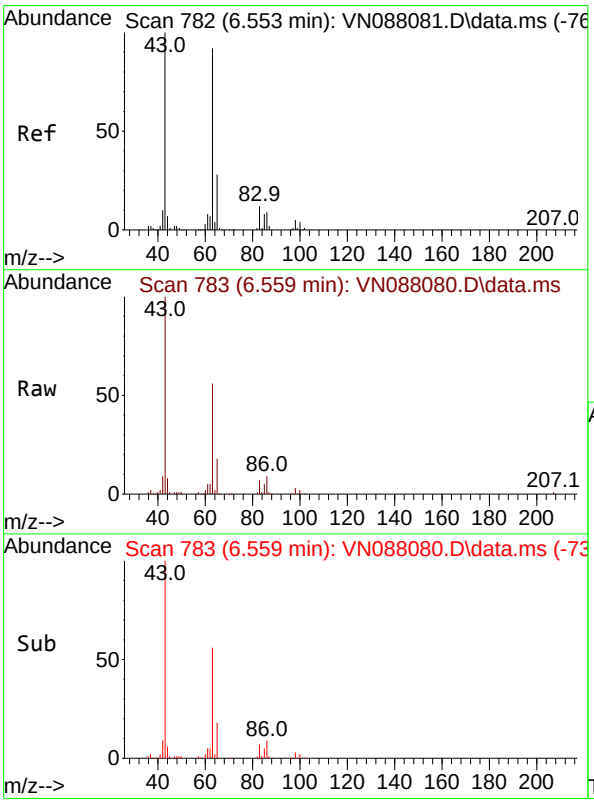
Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

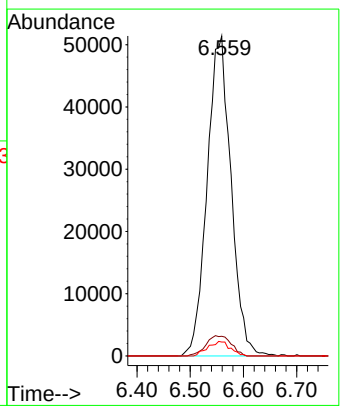
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

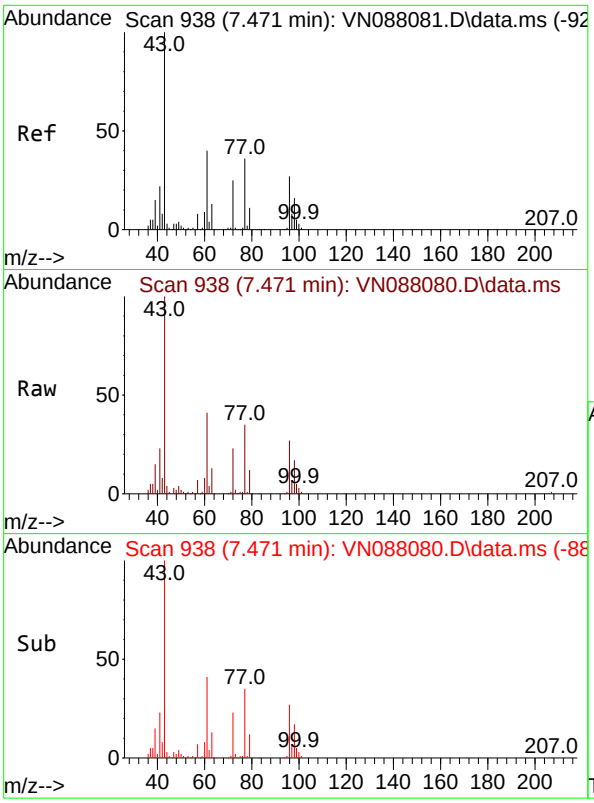


#24
1,1-Dichloroethane
Concen: 22.098 ug/l
RT: 6.559 min Scan# 783
Delta R.T. 0.012 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 63 Resp: 159981

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.8	11.4
100	4.4	2.0	6.0

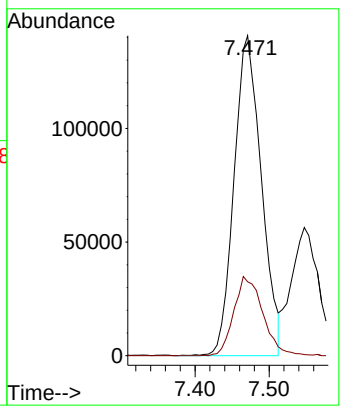




#25
2-Butanone
Concen: 112.706 ug/l
RT: 7.471 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 43 Resp: 36024

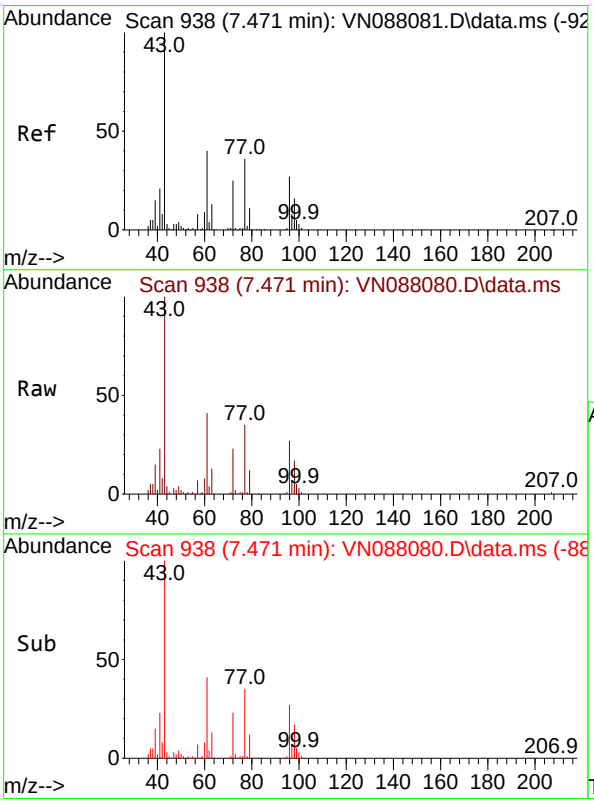
Ion	Ratio	Lower	Upper
43	100		
72	23.1	19.9	29.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

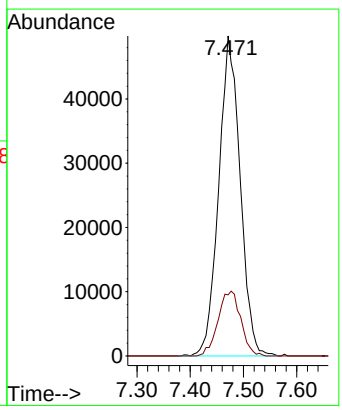
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

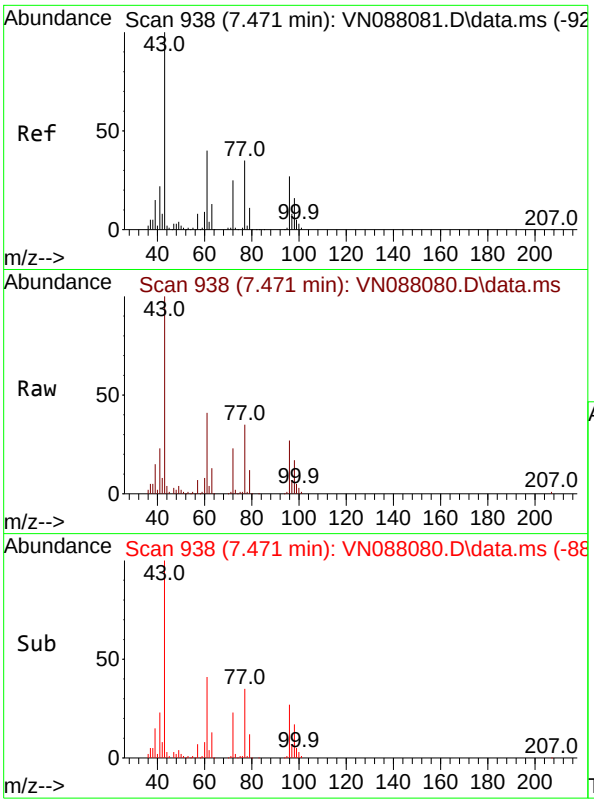


#26
2,2-Dichloropropane
Concen: 21.169 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 77 Resp: 139276

Ion	Ratio	Lower	Upper
77	100		
97	21.5	10.9	32.7

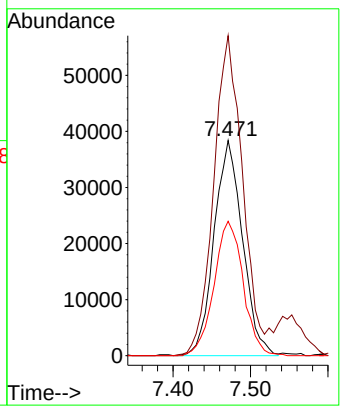




#27
cis-1,2-Dichloroethene
Concen: 21.866 ug/l
RT: 7.471 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 96 Resp: 9796

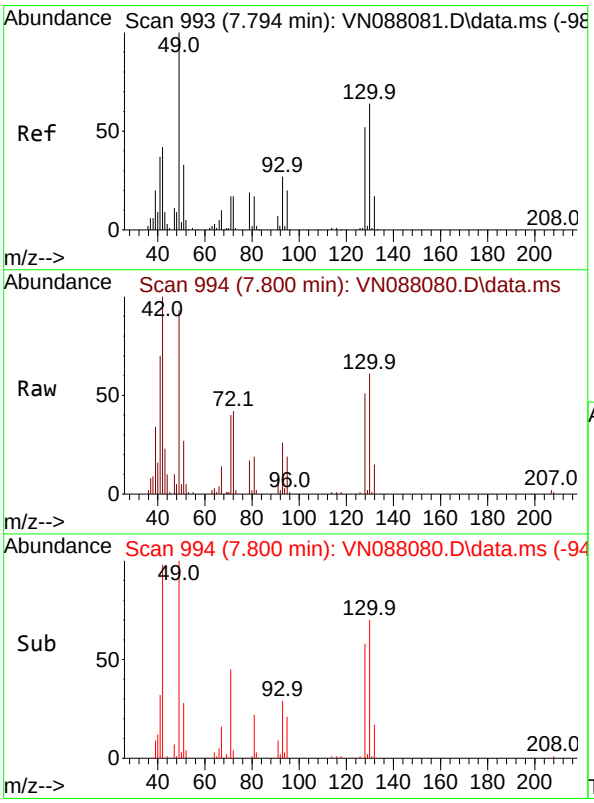
Ion	Ratio	Lower	Upper
96	100		
61	150.9	0.0	301.8
98	64.1	0.0	126.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

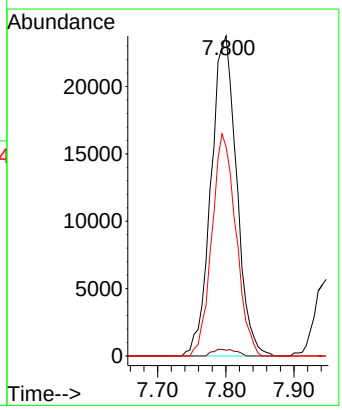
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

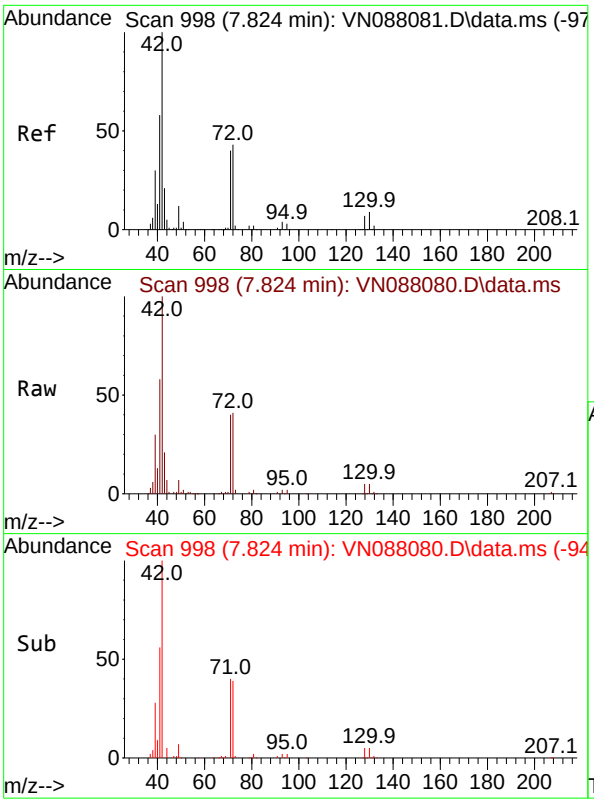


#28
Bromochloromethane
Concen: 18.117 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 49 Resp: 61975

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.0
130	65.3	53.1	79.7

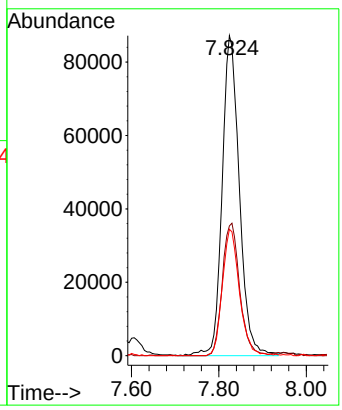




#29
Tetrahydrofuran
Concen: 113.080 ug/l
RT: 7.824 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 42 Resp: 23799

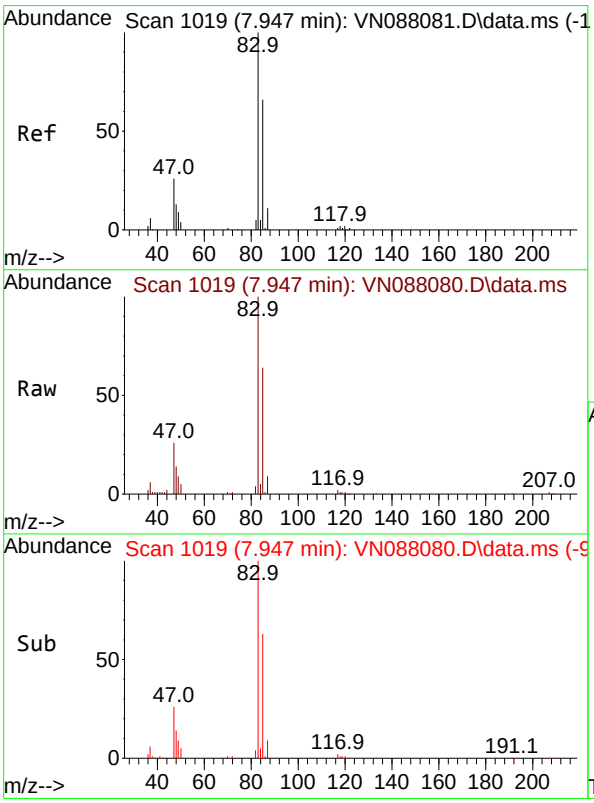
Ion	Ratio	Lower	Upper
42	100		
72	41.7	33.7	50.5
71	39.2	31.9	47.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

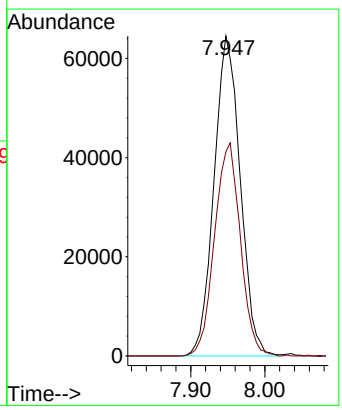
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

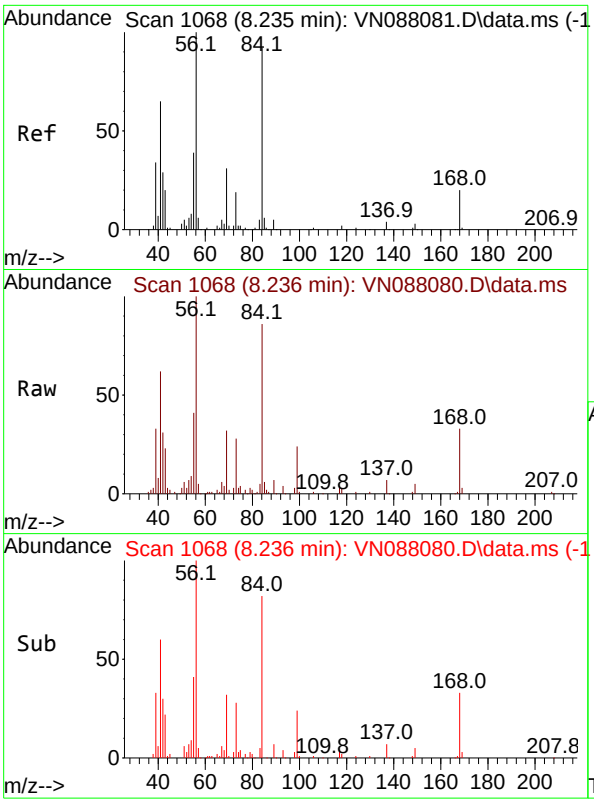


#30
Chloroform
Concen: 21.917 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 83 Resp: 158515

Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.7	76.1

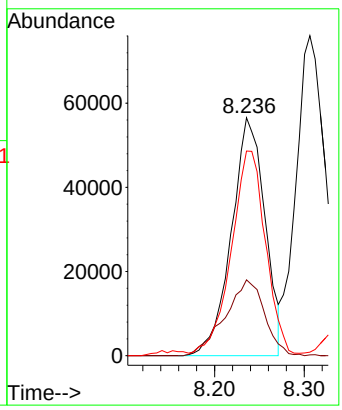




#31
Cyclohexane
Concen: 21.495 ug/l
RT: 8.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 56 Resp: 14677

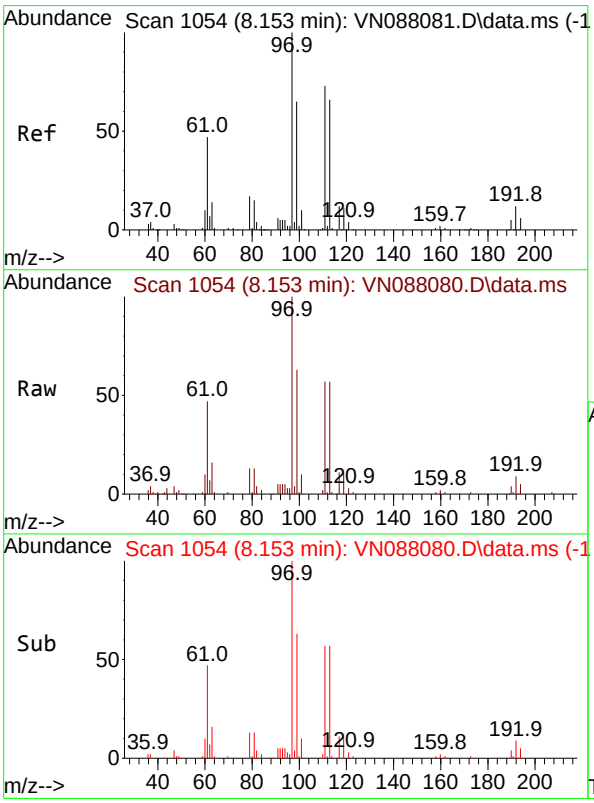
Ion	Ratio	Lower	Upper
56	100		
69	31.9	23.7	35.5
84	84.3	64.7	97.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

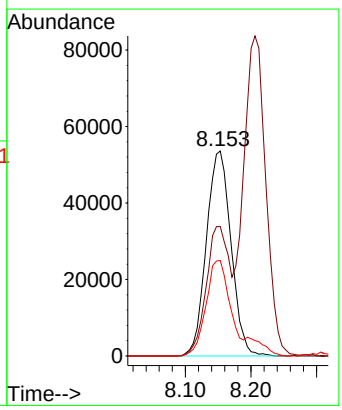
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

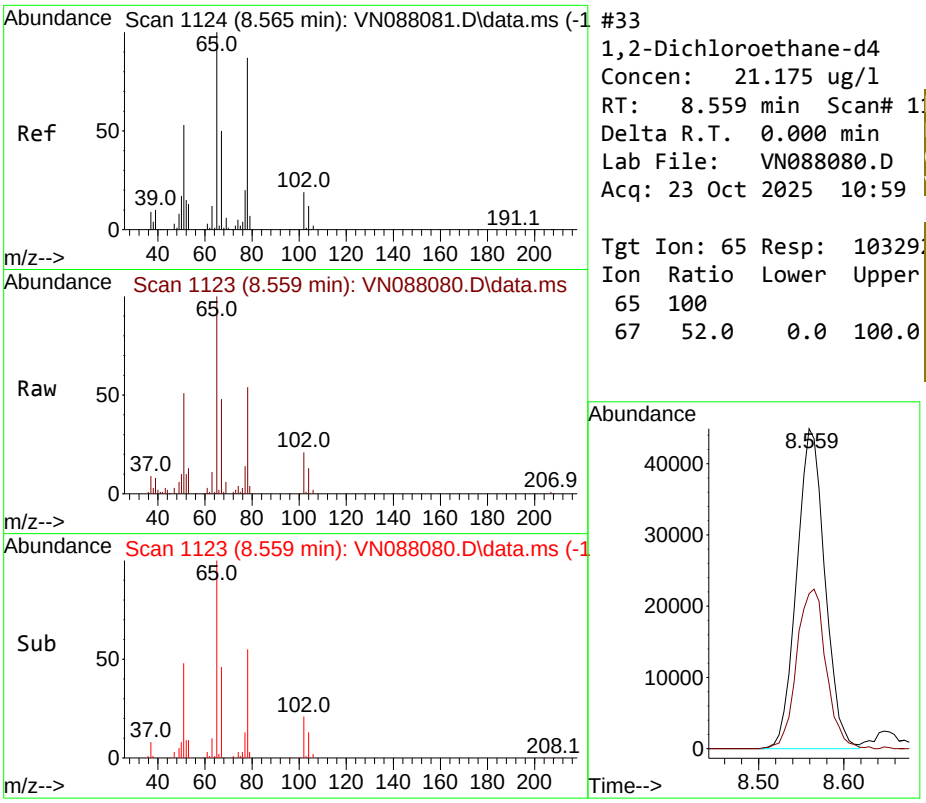


#32
1,1,1-Trichloroethane
Concen: 21.745 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 97 Resp: 140074

Ion	Ratio	Lower	Upper
97	100		
99	58.9	52.2	78.2
61	45.5	41.2	61.8





#33
1,2-Dichloroethane-d4
Concen: 21.175 ug/l
RT: 8.559 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

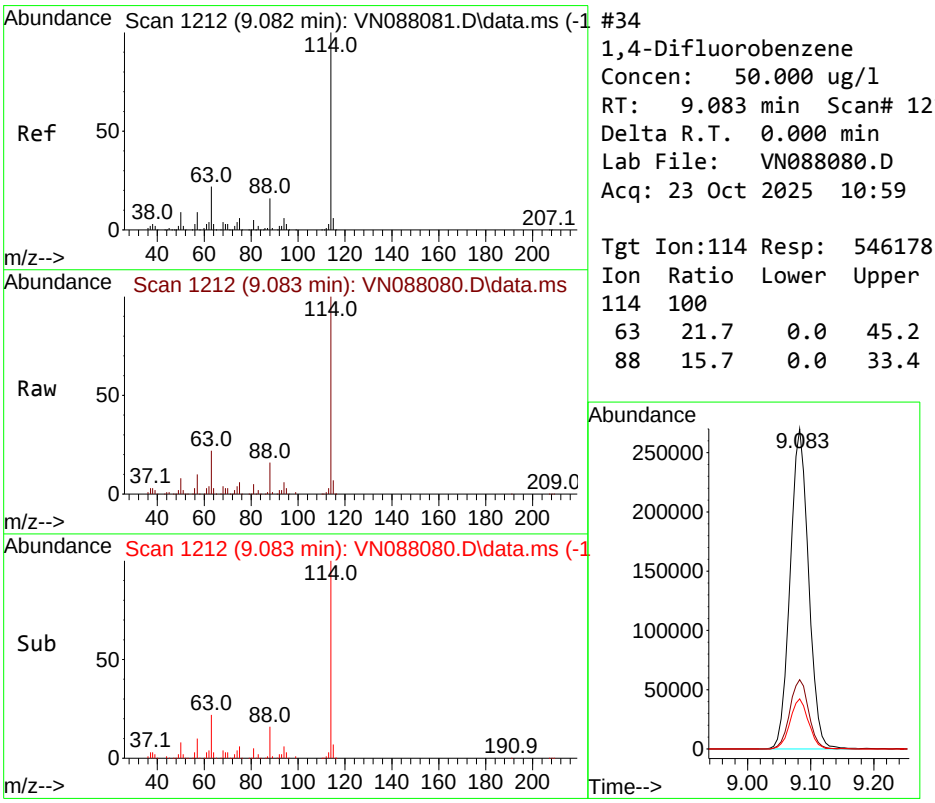
Tgt Ion: 65 Resp: 10329

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	100.0

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

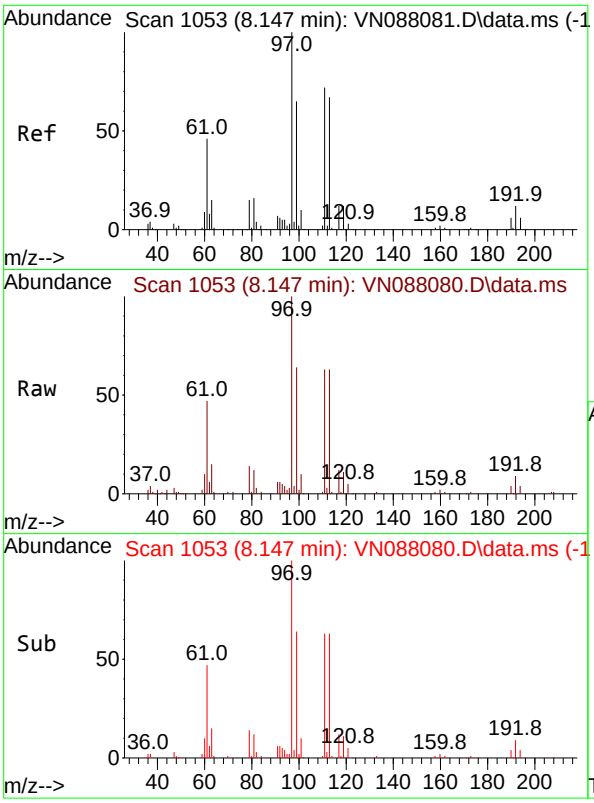
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:114 Resp: 546178

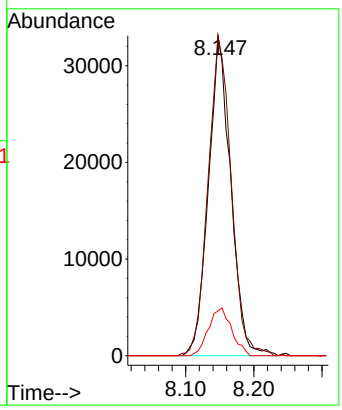
Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	45.2
88	15.7	0.0	33.4



#35
Dibromofluoromethane
Concen: 20.500 ug/l
RT: 8.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:113 Resp: 7522

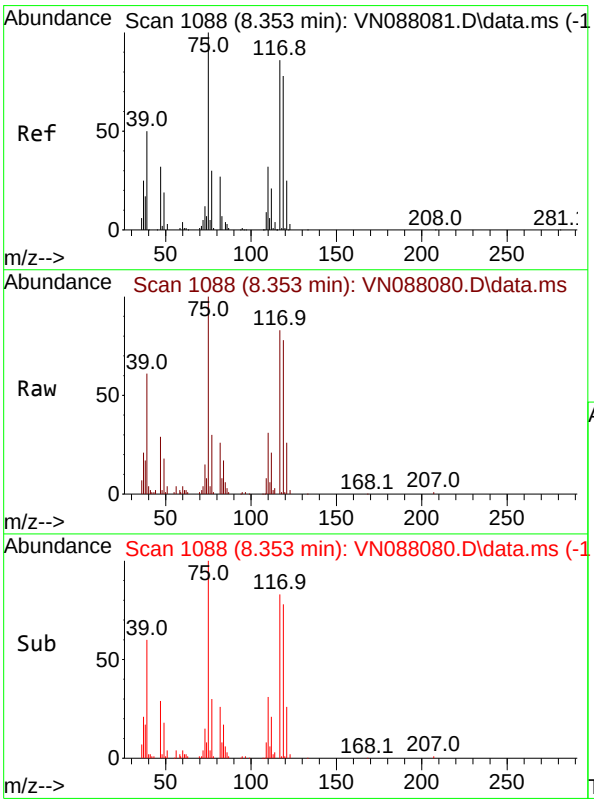
Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.8	124.2
192	15.5	12.8	19.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

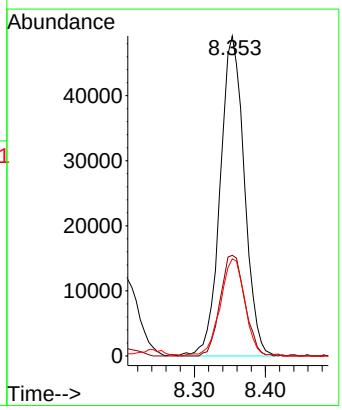
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

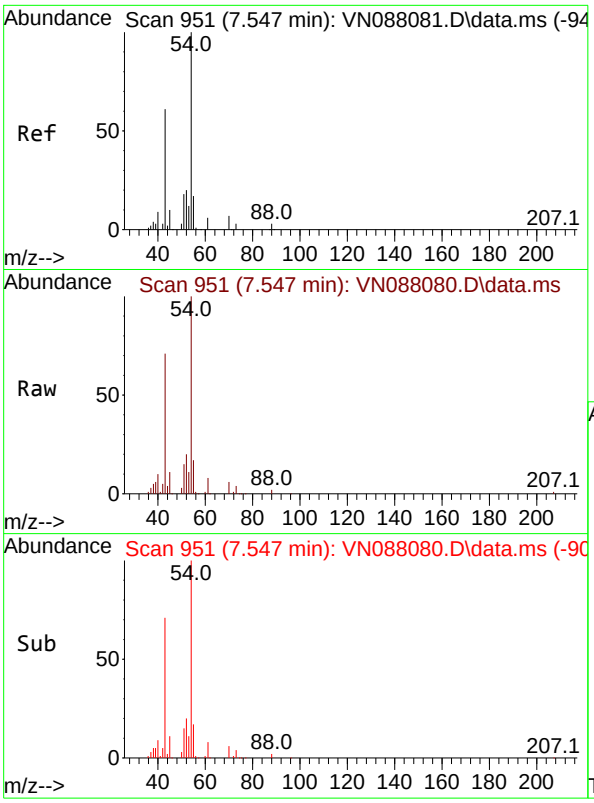


#36
1,1-Dichloropropene
Concen: 21.630 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 75 Resp: 115884

Ion	Ratio	Lower	Upper
75	100		
110	32.1	15.9	47.6
77	31.2	24.4	36.6





#37
Ethyl Acetate
Concen: 21.466 ug/l
RT: 7.547 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

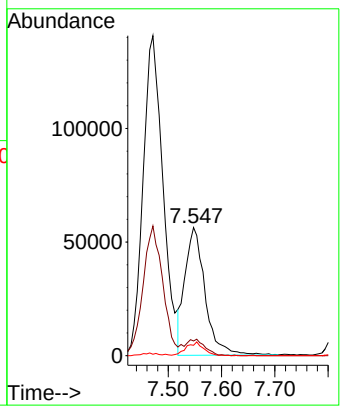
Tgt Ion: 43 Resp: 14778

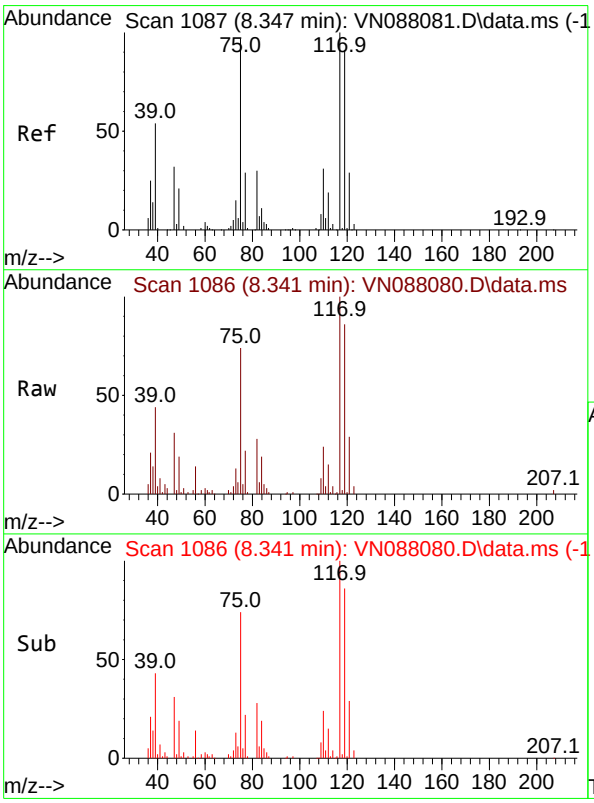
Ion	Ratio	Lower	Upper
43	100		
61	11.1	9.3	13.9
70	9.3	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

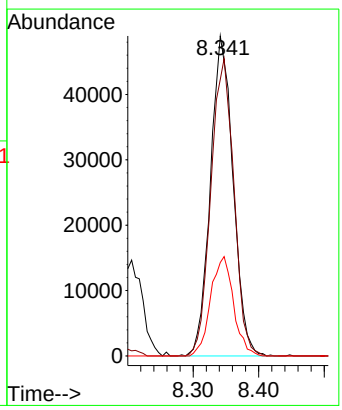


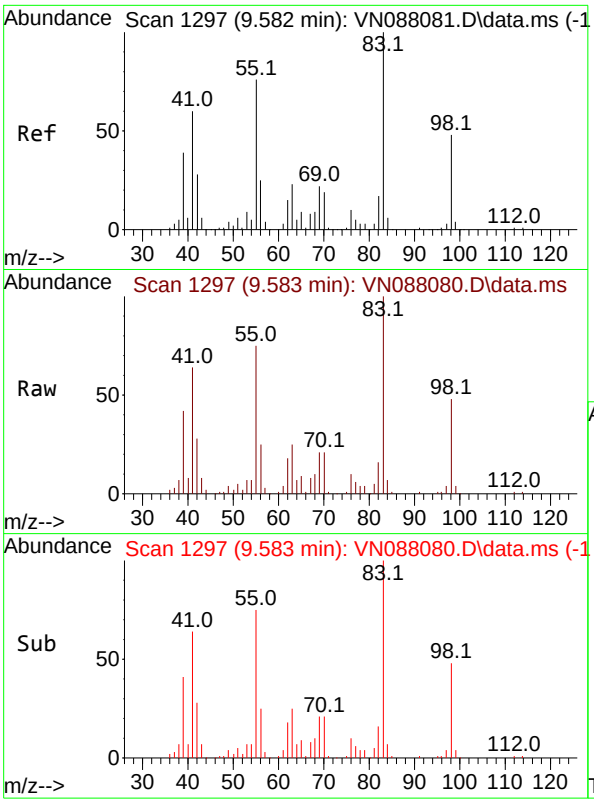


#38
Carbon Tetrachloride
Concen: 21.223 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:117 Resp: 117435

Ion	Ratio	Lower	Upper
117	100		
119	86.4	79.0	118.6
121	29.2	25.0	37.6

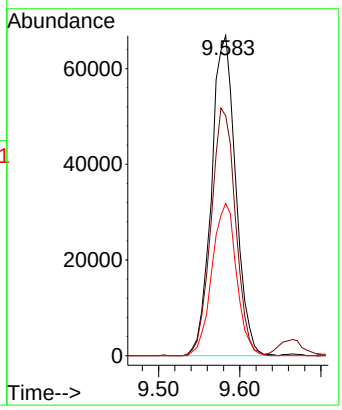




#39
Methylcyclohexane
Concen: 20.099 ug/l
RT: 9.583 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 83 Resp: 13841

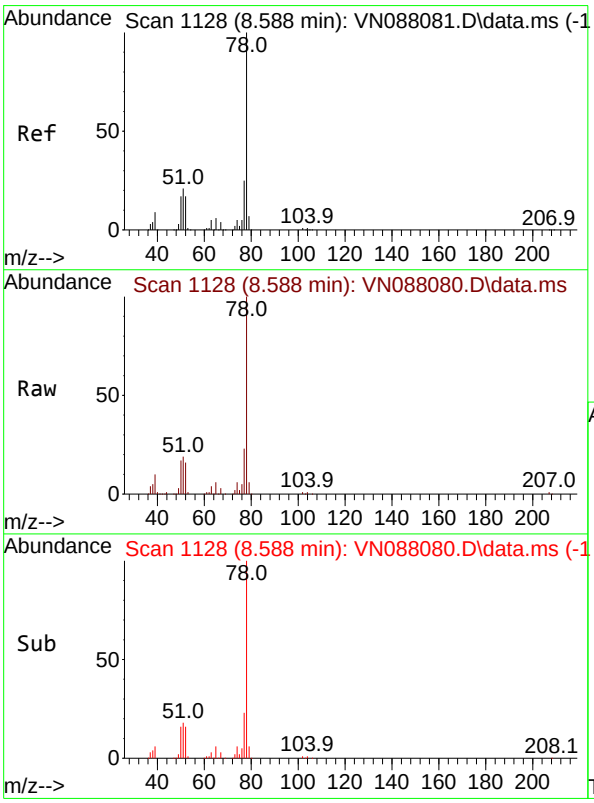
Ion	Ratio	Lower	Upper
83	100		
55	74.9	64.6	96.8
98	47.6	38.4	57.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

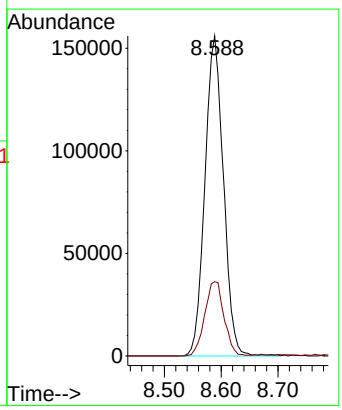
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

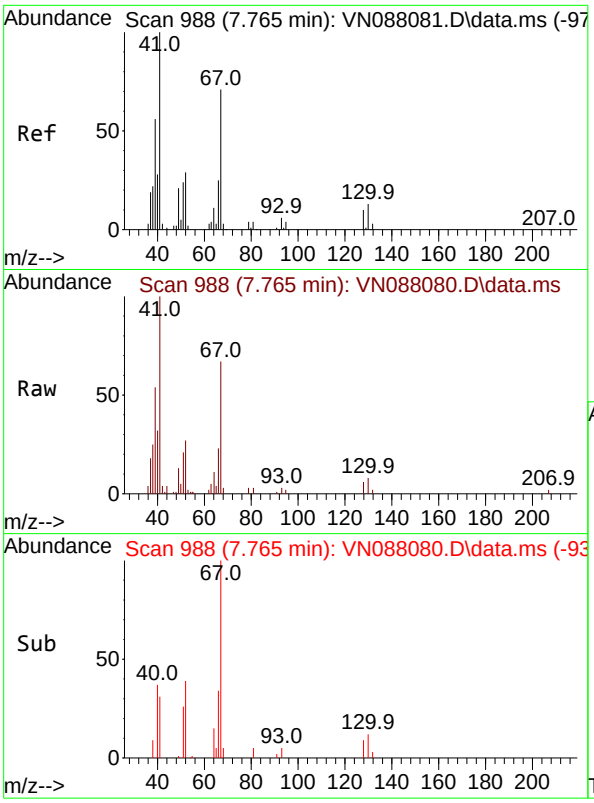


#40
Benzene
Concen: 21.551 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 78 Resp: 351627

Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.7	29.5

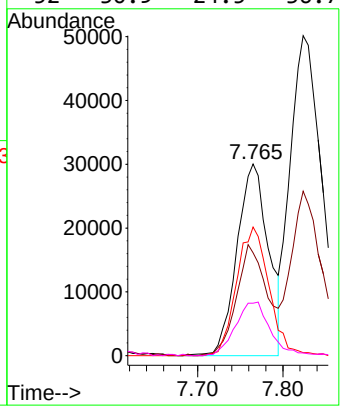




#41
Methacrylonitrile
Concen: 21.272 ug/l
RT: 7.765 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 41 Resp: 7740

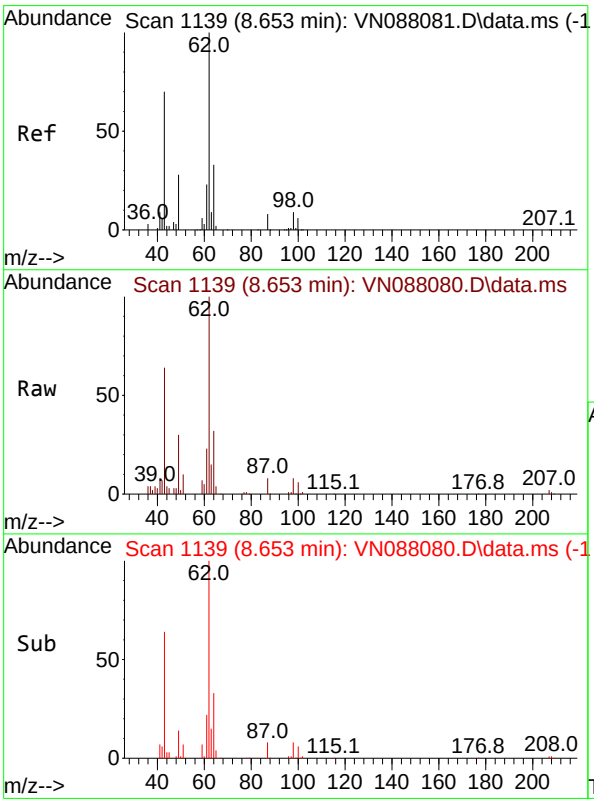
Ion	Ratio	Lower	Upper
41	100		
39	56.4	45.4	68.0
67	69.1	55.3	82.9
52	30.9	24.5	36.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

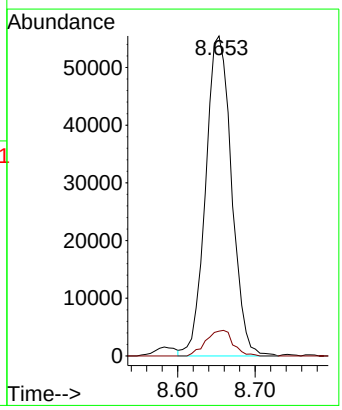
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

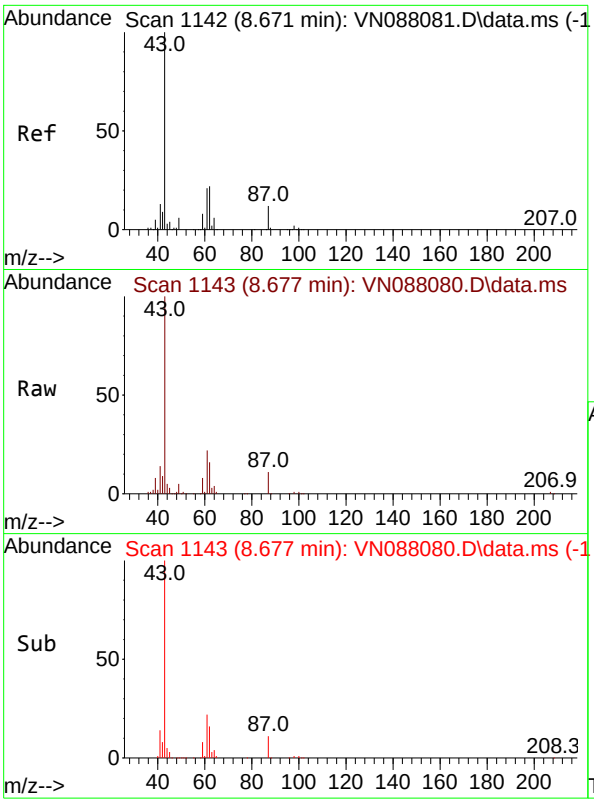


#42
1,2-Dichloroethane
Concen: 22.239 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 62 Resp: 128925

Ion	Ratio	Lower	Upper
62	100		
98	8.4	0.0	17.4

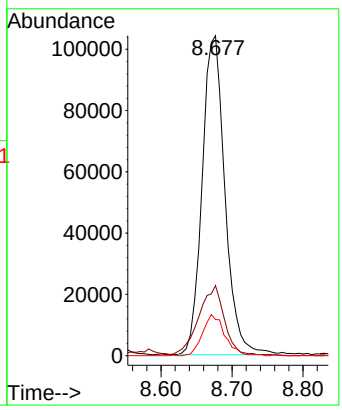




#43
Isopropyl Acetate
Concen: 21.914 ug/l
RT: 8.677 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 43 Resp: 23281

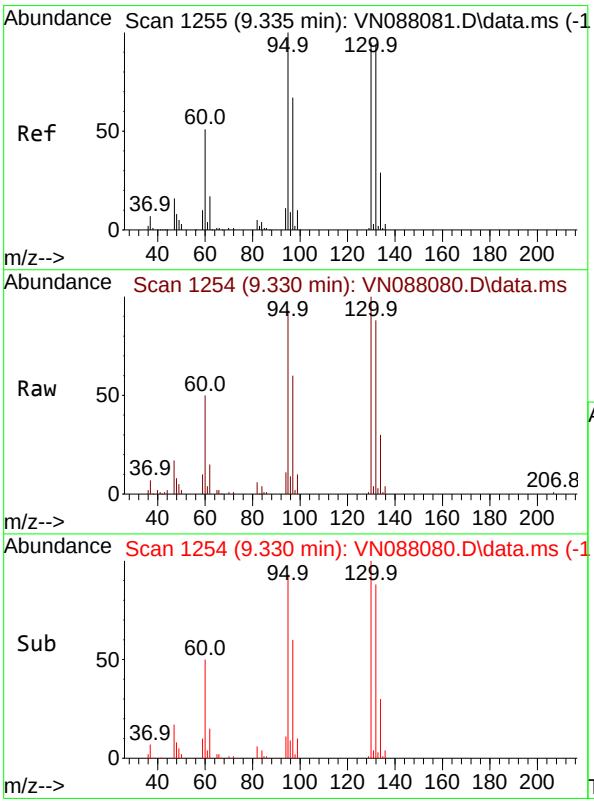
Ion	Ratio	Lower	Upper
43	100		
61	25.1	18.8	28.2
87	12.6	9.6	14.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

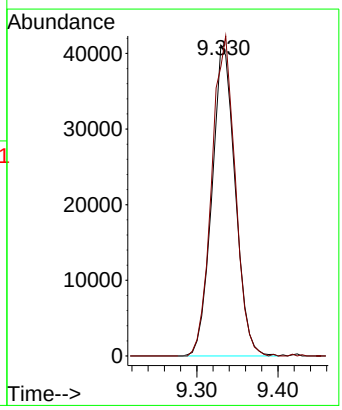
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

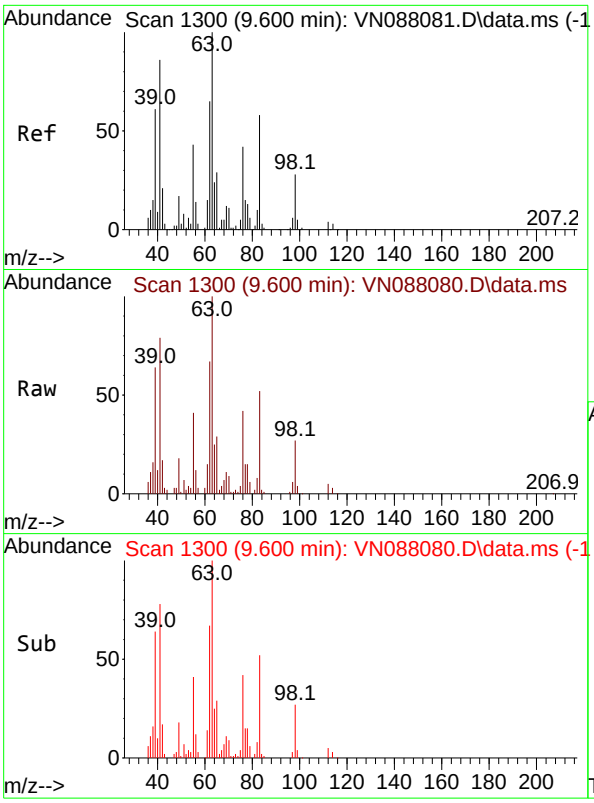


#44
Trichloroethene
Concen: 21.452 ug/l
RT: 9.330 min Scan# 1254
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:130 Resp: 81811

Ion	Ratio	Lower	Upper
130	100		
95	93.2	0.0	212.0

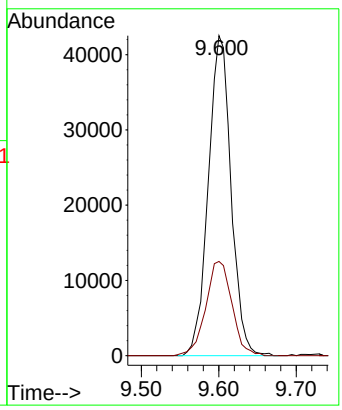




#45
1,2-Dichloropropane
Concen: 21.033 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 63 Resp: 8663

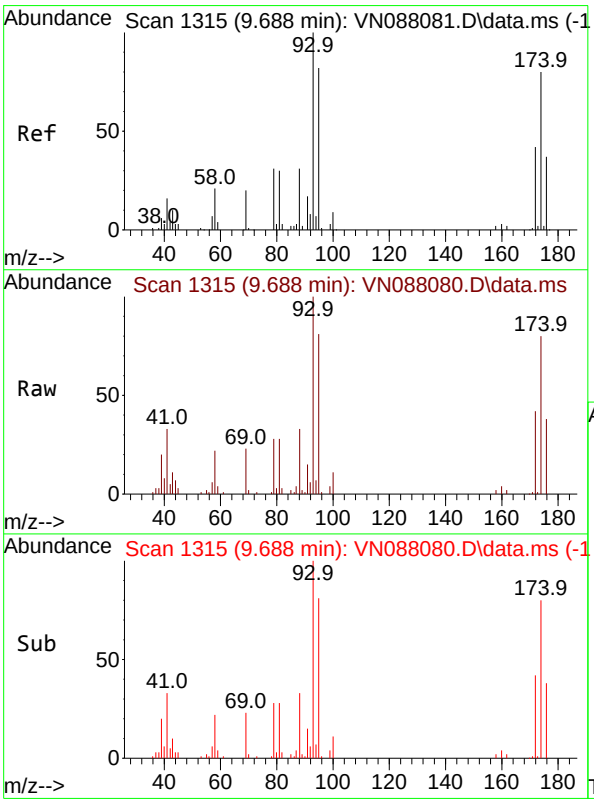
Ion	Ratio	Lower	Upper
63	100		
65	29.5	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
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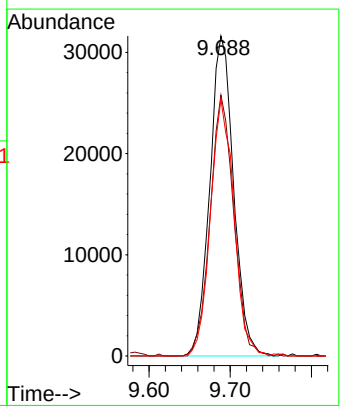
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

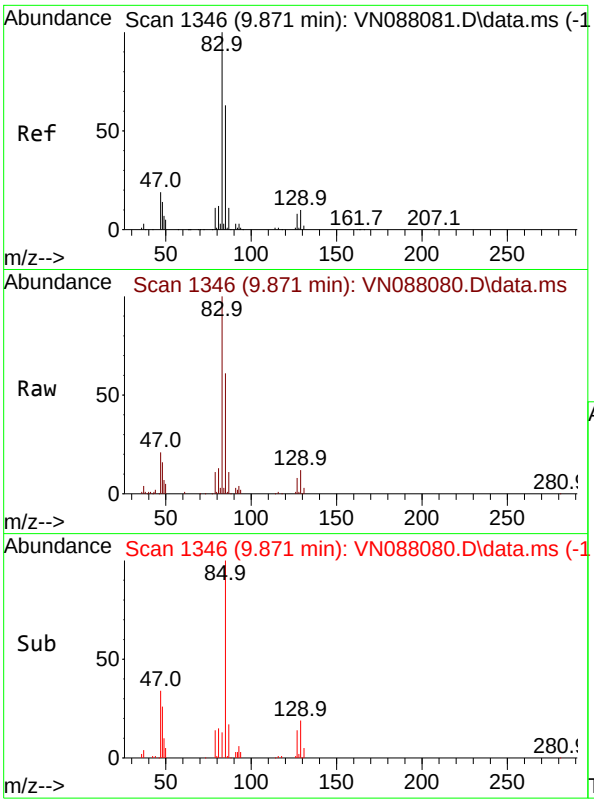


#46
Dibromomethane
Concen: 21.923 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 93 Resp: 64404

Ion	Ratio	Lower	Upper
93	100		
95	80.9	66.2	99.4
174	78.8	63.4	95.2

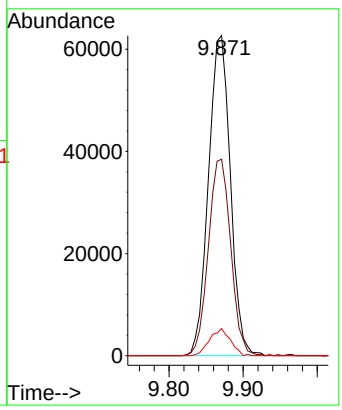




#47
Bromodichloromethane
Concen: 21.895 ug/l
RT: 9.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 83 Resp: 12878

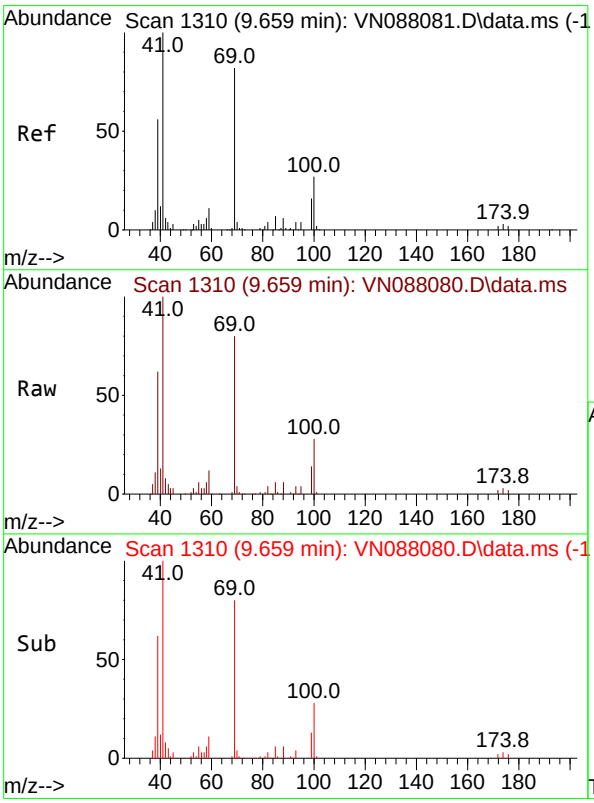
Ion	Ratio	Lower	Upper
83	100		
85	61.4	52.5	78.7
127	8.5	5.8	8.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

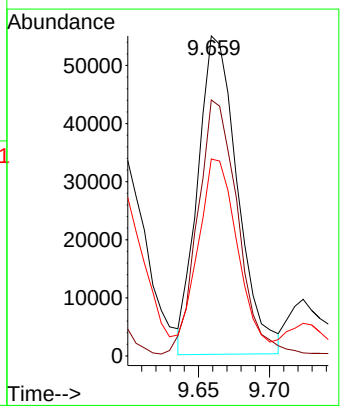
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

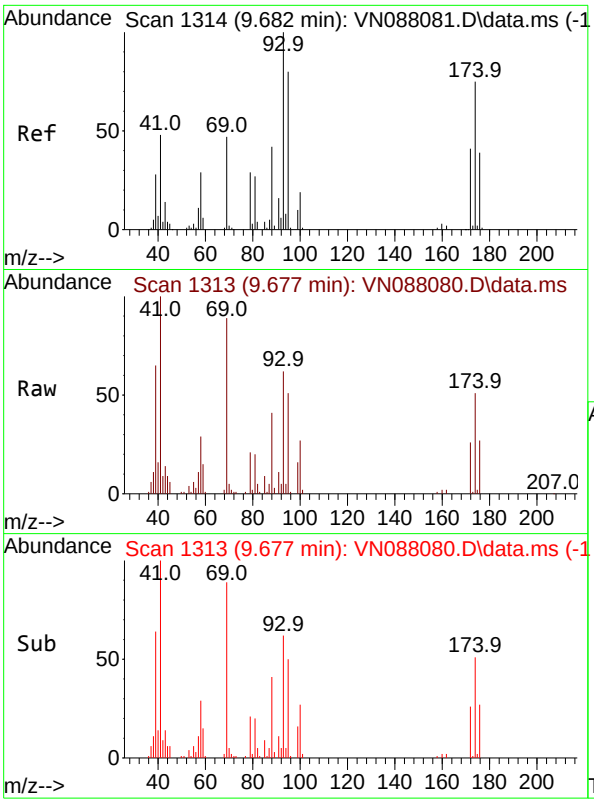


#48
Methyl methacrylate
Concen: 21.182 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 41 Resp: 106892

Ion	Ratio	Lower	Upper
41	100		
69	80.8	62.7	94.1
39	62.9	52.9	79.3





#49
1,4-Dioxane
Concen: 459.958 ug/l
RT: 9.677 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

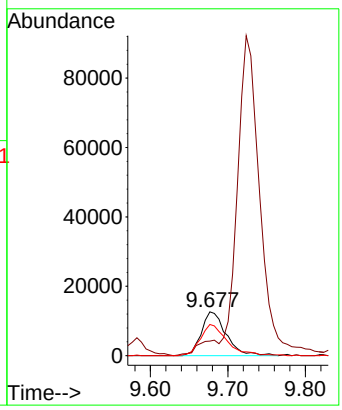
Tgt Ion: 88 Resp: 2805

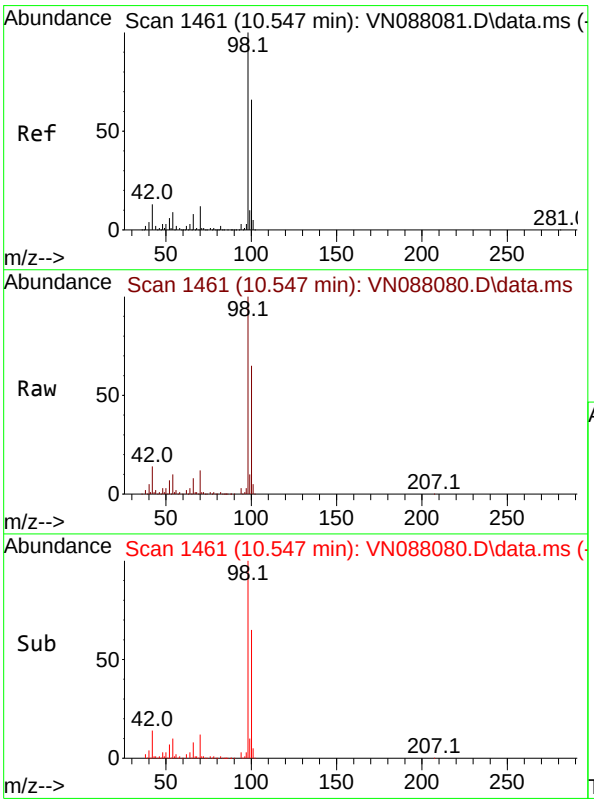
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	77.1	57.9	86.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

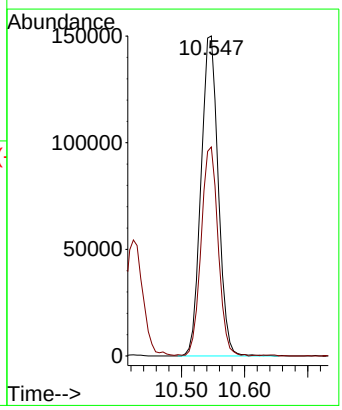


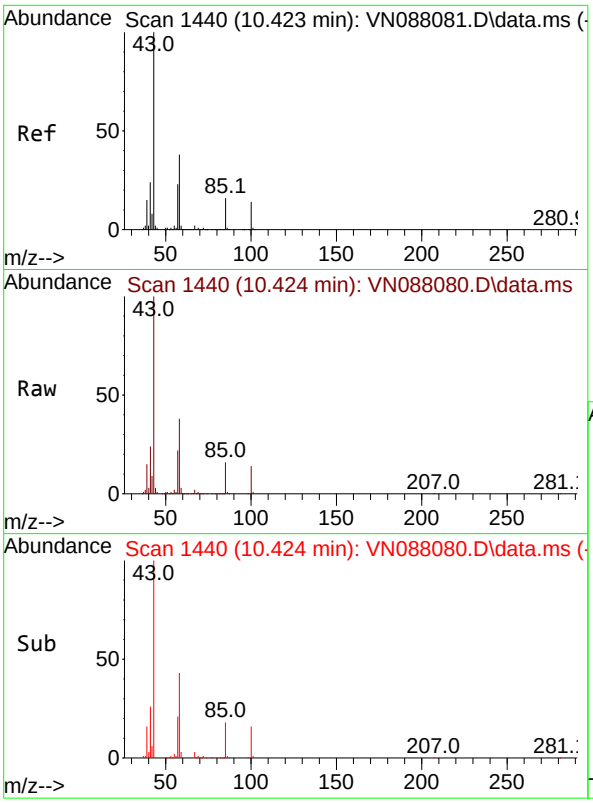


#50
Toluene-d8
Concen: 20.057 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 98 Resp: 283564

Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.8	79.2





#51
4-Methyl-2-Pentanone
Concen: 112.466 ug/l
RT: 10.424 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

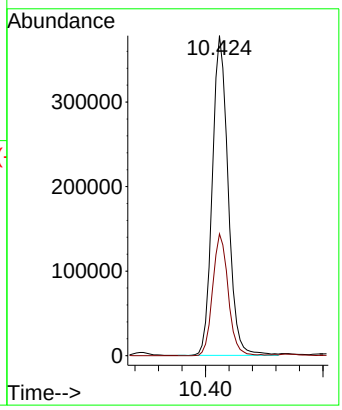
Tgt Ion: 43 Resp: 70684

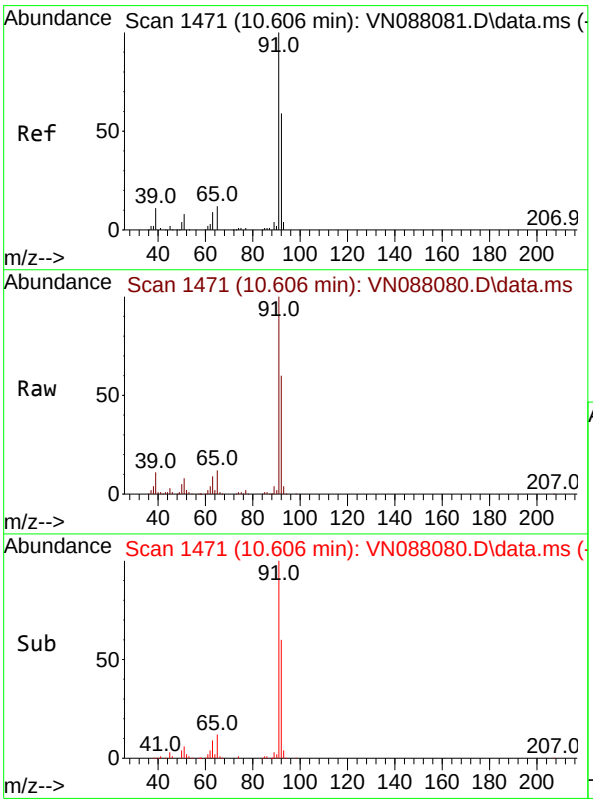
Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.6	44.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

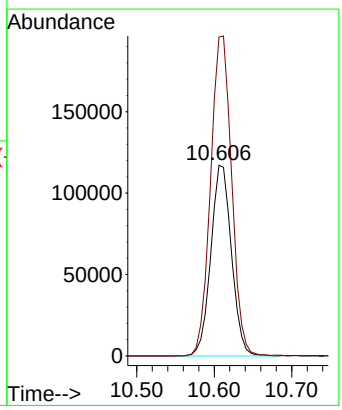


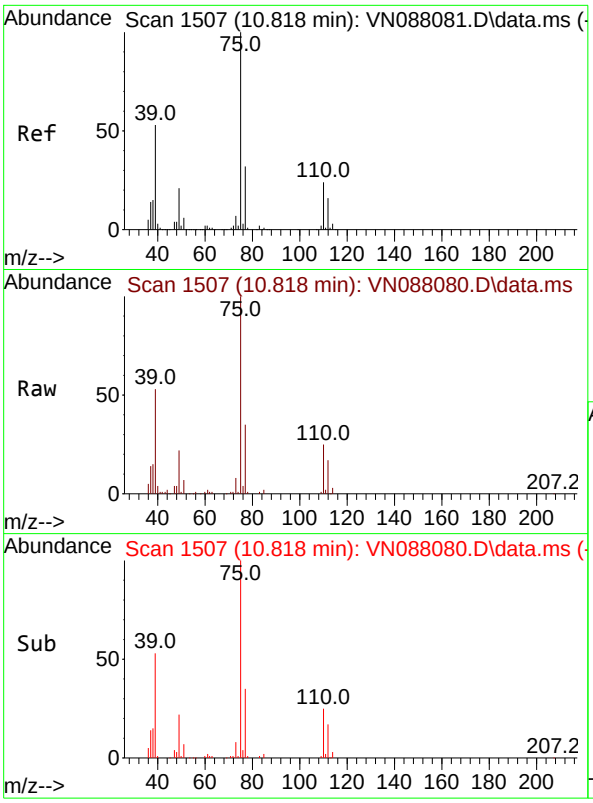


#52
Toluene
Concen: 21.530 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 92 Resp: 216580

Ion	Ratio	Lower	Upper
92	100		
91	171.6	140.4	210.6

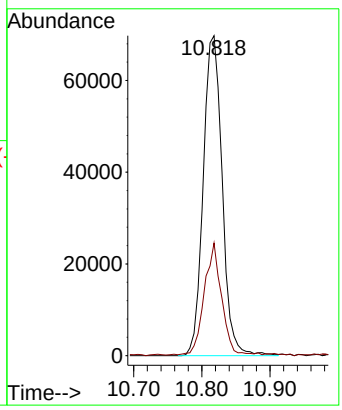




#53
t-1,3-Dichloropropene
Concen: 21.581 ug/l
RT: 10.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 75 Resp: 13509

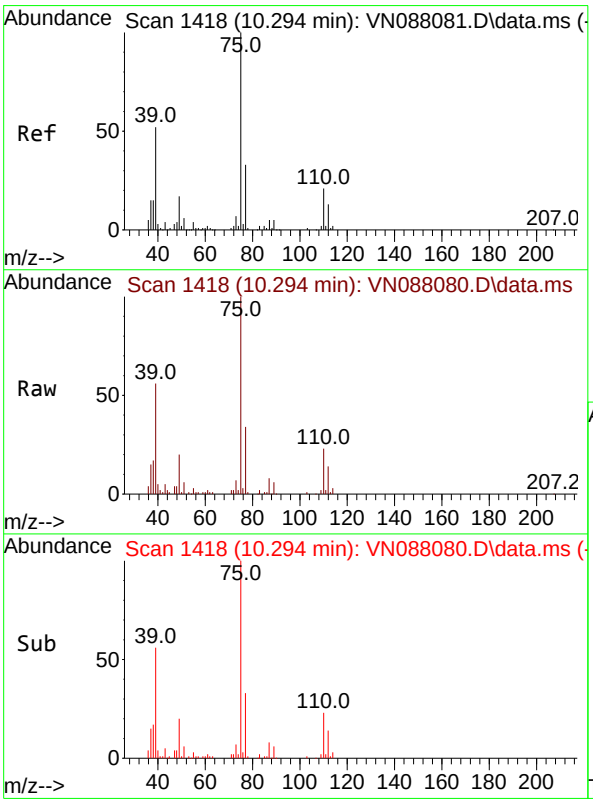
Ion	Ratio	Lower	Upper
75	100		
77	34.9	25.2	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
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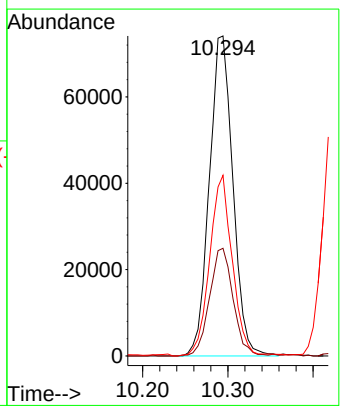
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

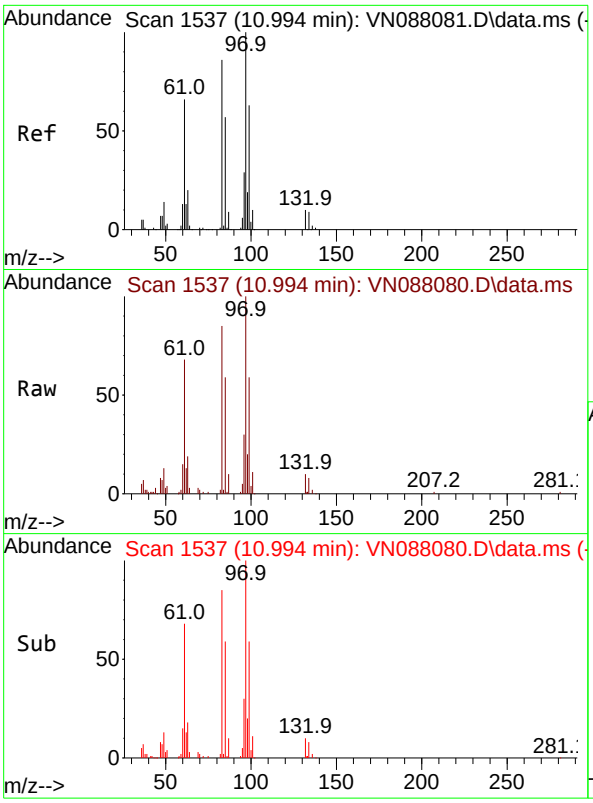


#54
cis-1,3-Dichloropropene
Concen: 21.447 ug/l
RT: 10.294 min Scan# 1418
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 75 Resp: 142472

Ion	Ratio	Lower	Upper
75	100		
77	33.7	24.6	37.0
39	56.5	45.2	67.8

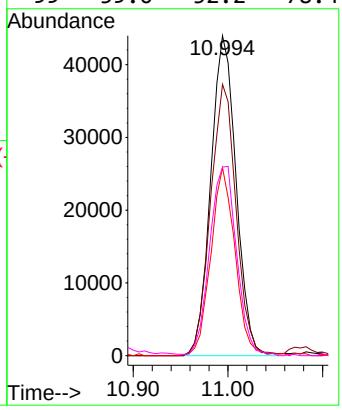




#55
1,1,2-Trichloroethane
Concen: 21.426 ug/l
RT: 10.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 97 Resp: 8177

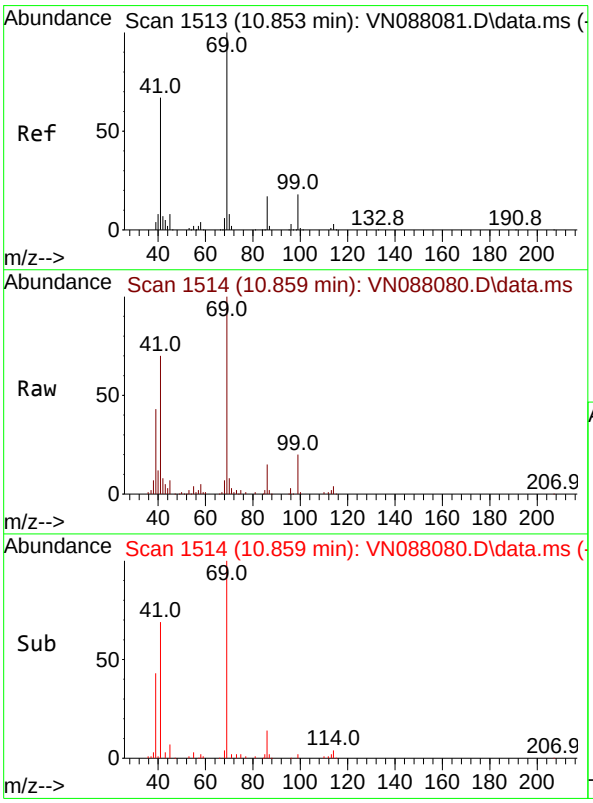
Ion	Ratio	Lower	Upper
97	100		
83	84.8	68.2	102.4
85	58.7	45.5	68.3
99	59.0	52.2	78.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

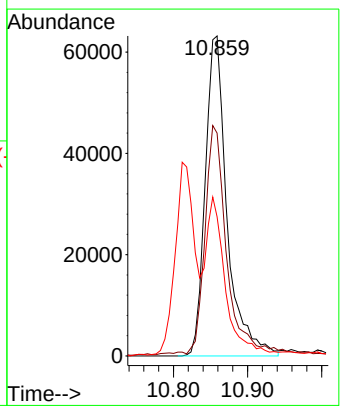
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

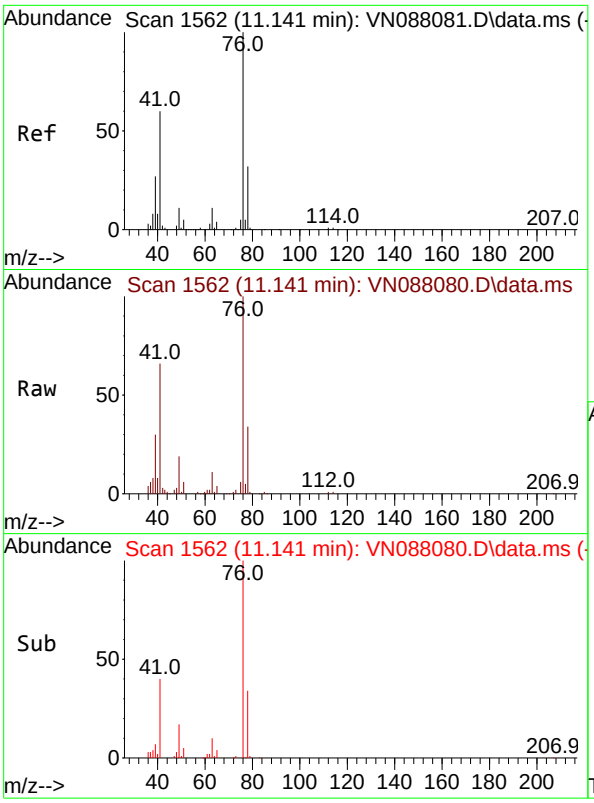


#56
Ethyl methacrylate
Concen: 21.460 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 69 Resp: 129419

Ion	Ratio	Lower	Upper
69	100		
41	72.2	56.5	84.7
39	42.6	34.2	51.4

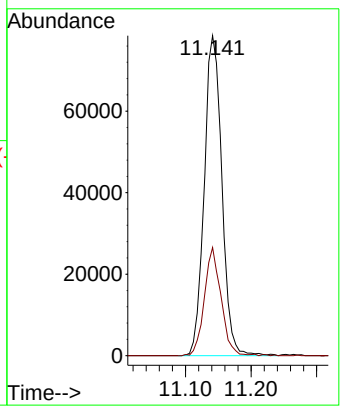




#57
1,3-Dichloropropane
Concen: 21.938 ug/l
RT: 11.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 76 Resp: 14716

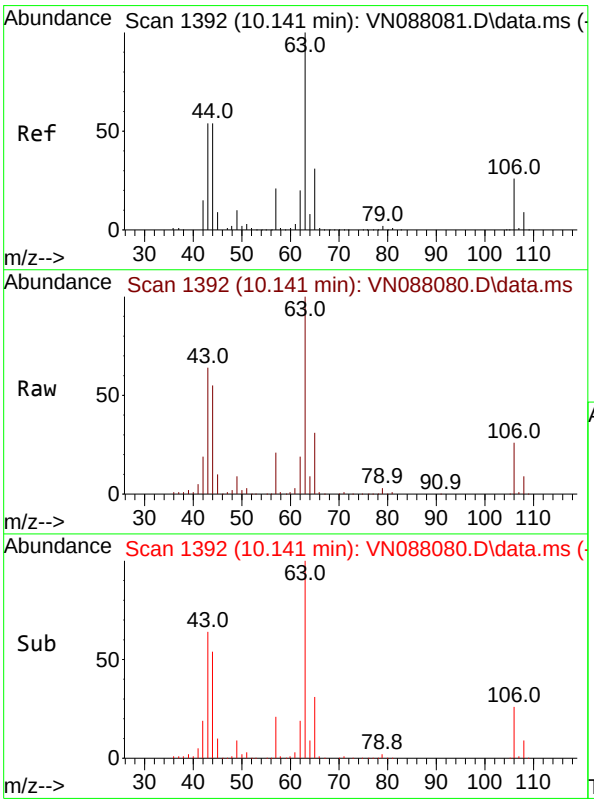
Ion	Ratio	Lower	Upper
76	100		
78	32.0	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

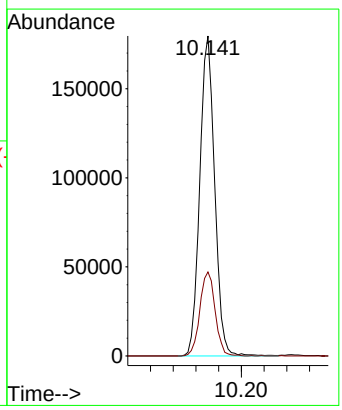
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

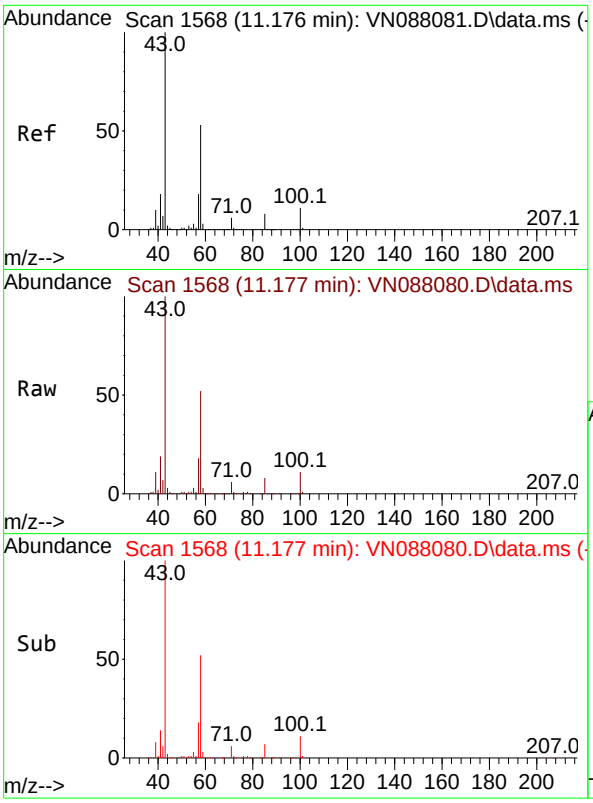


#58
2-Chloroethyl Vinyl ether
Concen: 103.833 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 63 Resp: 326199

Ion	Ratio	Lower	Upper
63	100		
106	26.9	21.1	31.7





#59
2-Hexanone
Concen: 110.762 ug/l
RT: 11.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

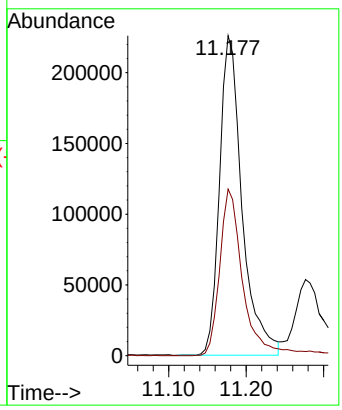
Tgt Ion: 43 Resp: 45699

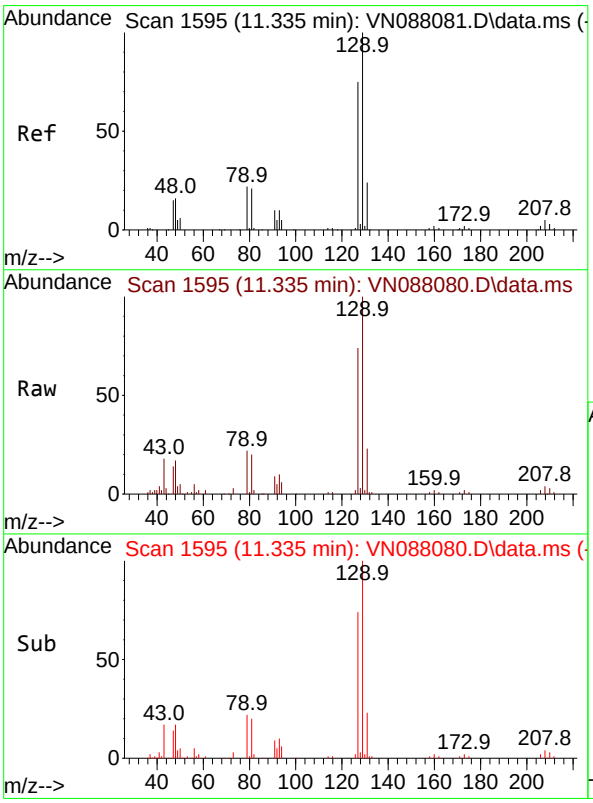
Ion	Ratio	Lower	Upper
43	100		
58	54.7	25.9	77.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

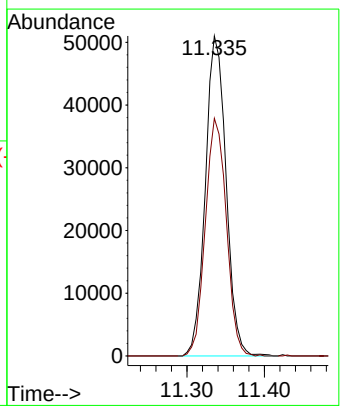


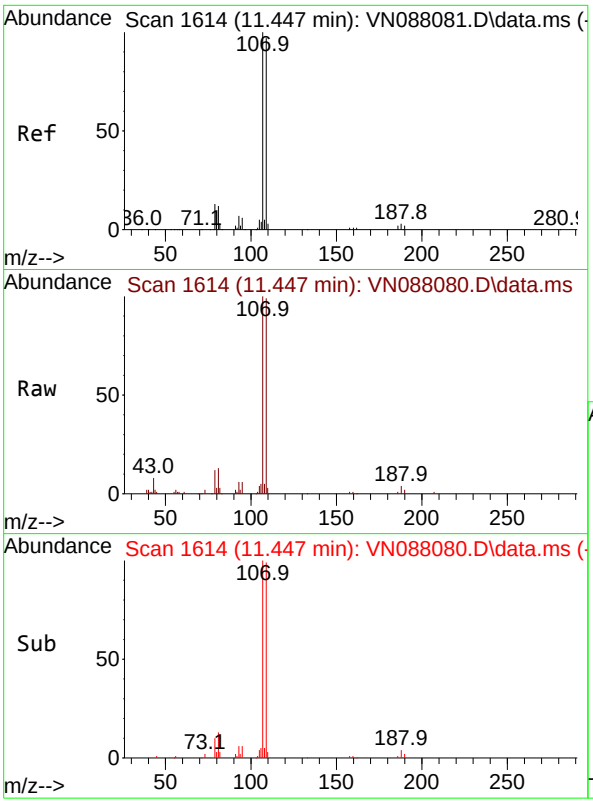


#60
Dibromochloromethane
Concen: 21.821 ug/l
RT: 11.335 min Scan# 1595
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:129 Resp: 94659

Ion	Ratio	Lower	Upper
129	100		
127	75.2	39.1	117.3

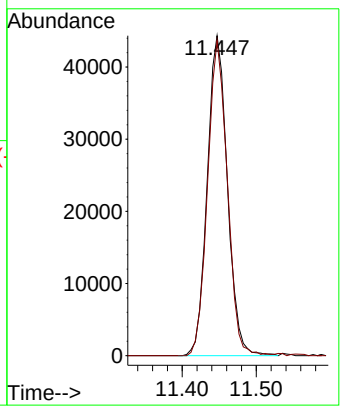




#61
1,2-Dibromoethane
Concen: 21.341 ug/l
RT: 11.447 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:107 Resp: 8382

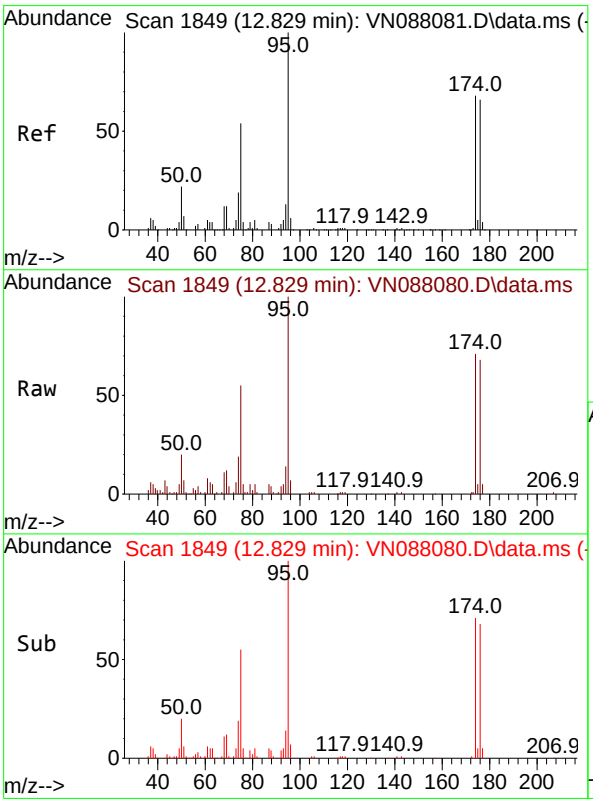
Ion	Ratio	Lower	Upper
107	100		
109	96.3	74.7	112.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

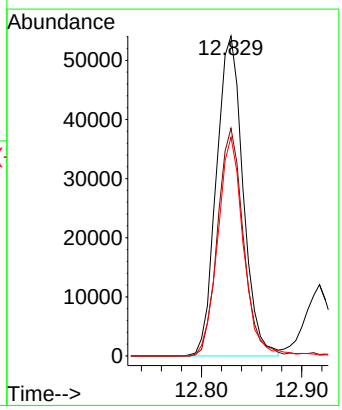
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

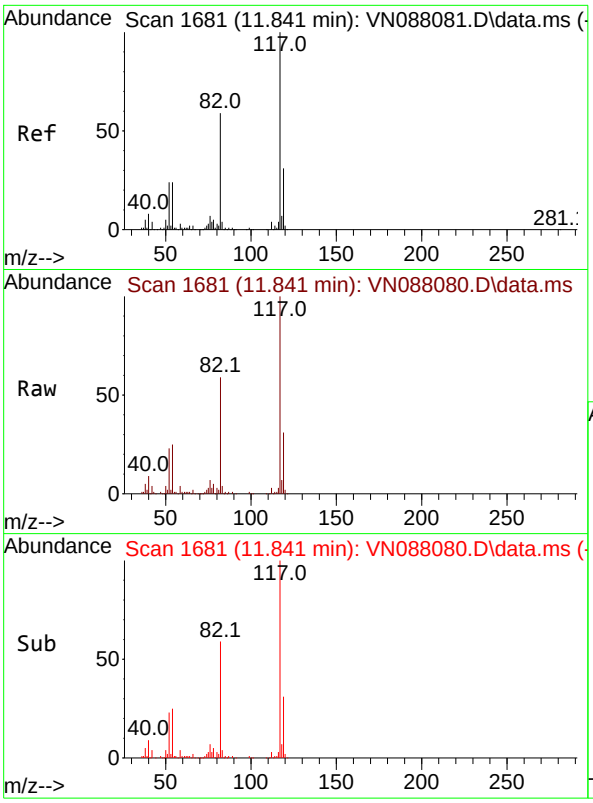


#62
4-Bromofluorobenzene
Concen: 20.012 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 95 Resp: 99923

Ion	Ratio	Lower	Upper
95	100		
174	68.7	0.0	138.4
176	66.4	0.0	132.6

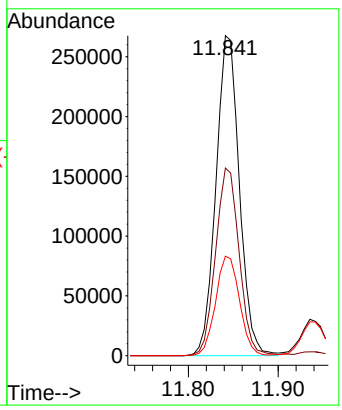




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:117 Resp: 48562

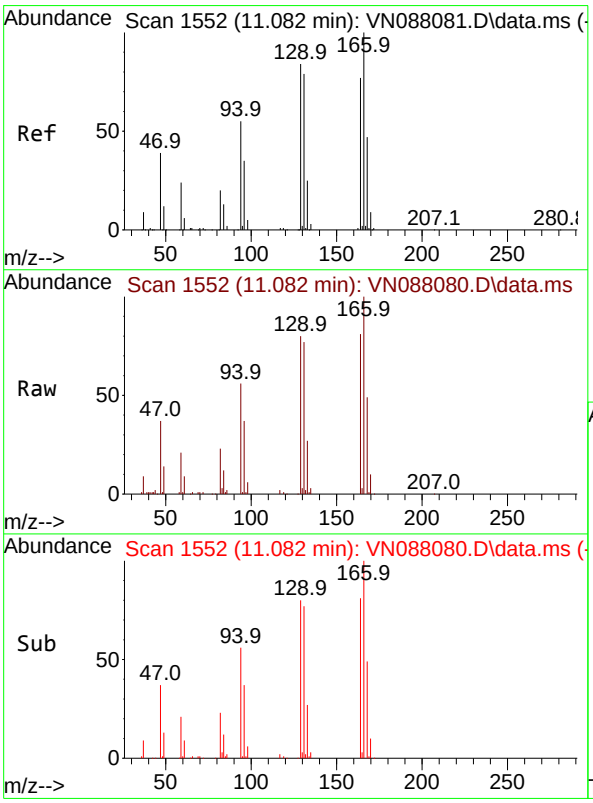
Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.4	71.2
119	31.1	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

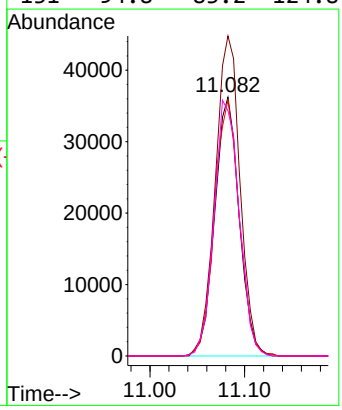
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

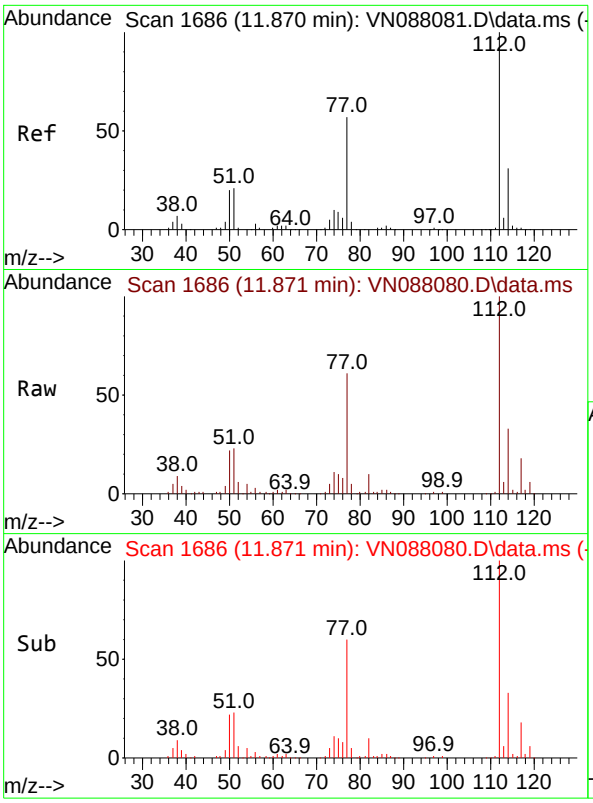


#64
Tetrachloroethene
Concen: 20.298 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:164 Resp: 65019

Ion	Ratio	Lower	Upper
164	100		
166	123.7	97.7	146.5
129	98.9	85.9	128.9
131	94.8	83.2	124.8

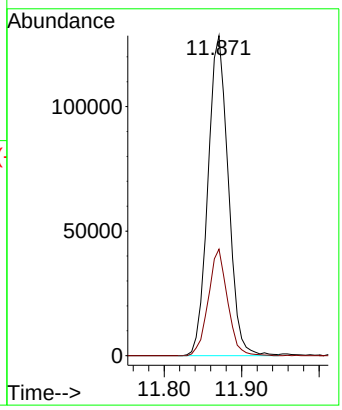




#65
Chlorobenzene
Concen: 21.219 ug/l
RT: 11.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:112 Resp: 23397

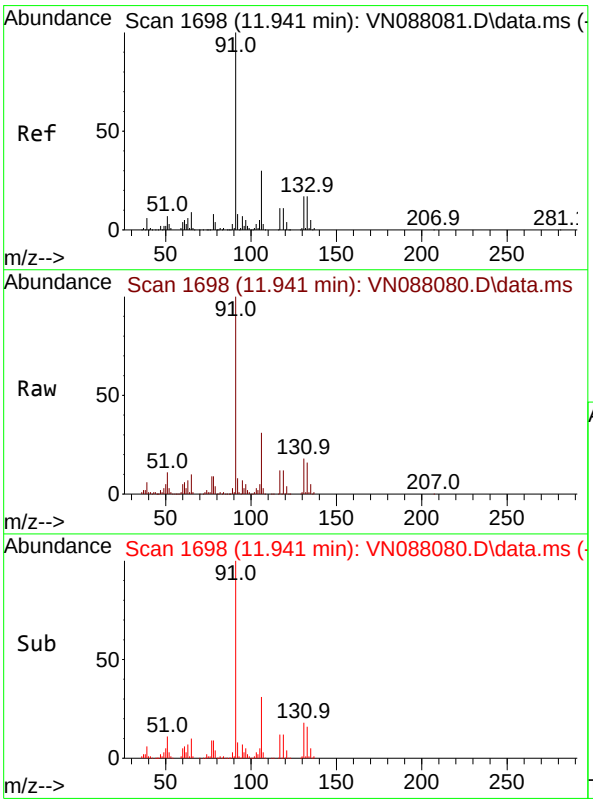
Ion	Ratio	Lower	Upper
112	100		
114	33.3	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

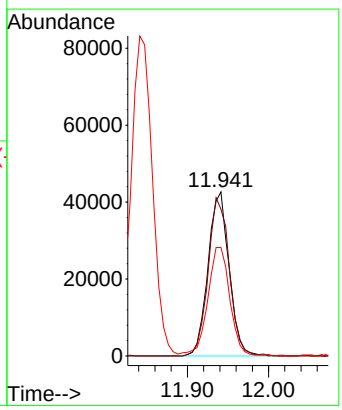
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

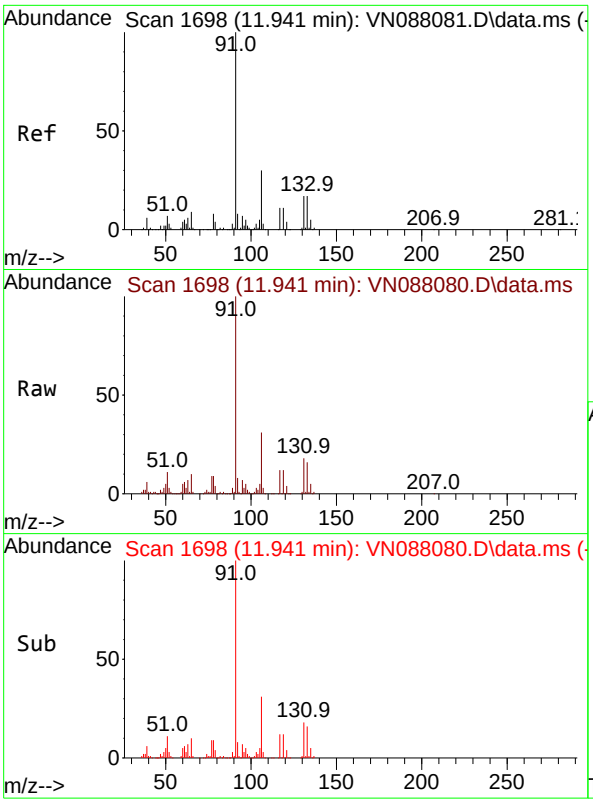


#66
1,1,1,2-Tetrachloroethane
Concen: 21.259 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:131 Resp: 76803

Ion	Ratio	Lower	Upper
131	100		
133	97.3	48.0	144.0
119	69.8	32.6	97.7

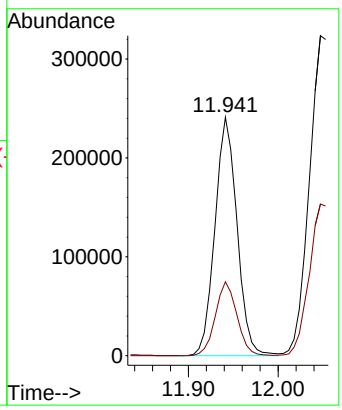




#67
Ethyl Benzene
Concen: 21.311 ug/l
RT: 11.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 91 Resp: 41248

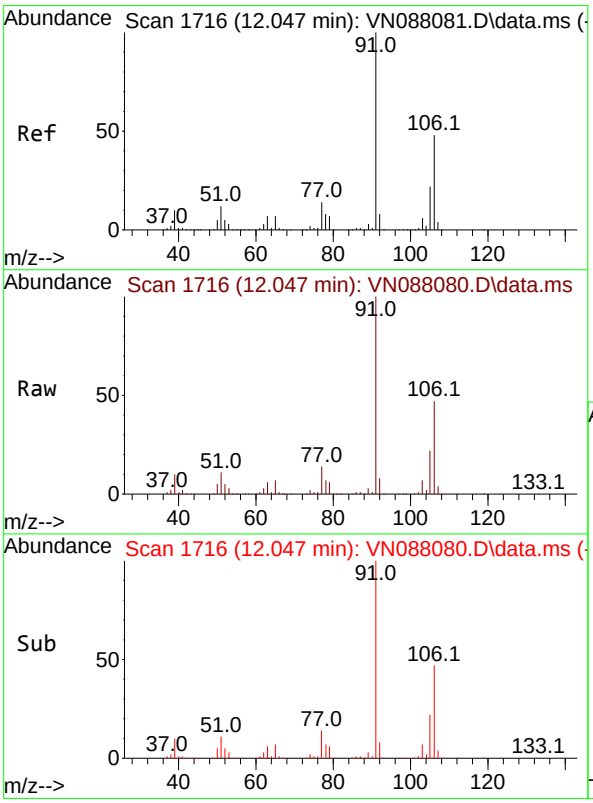
Ion	Ratio	Lower	Upper
91	100		
106	31.0	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

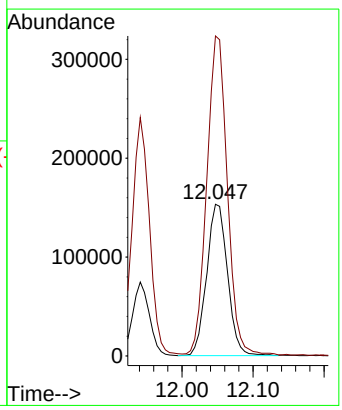
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

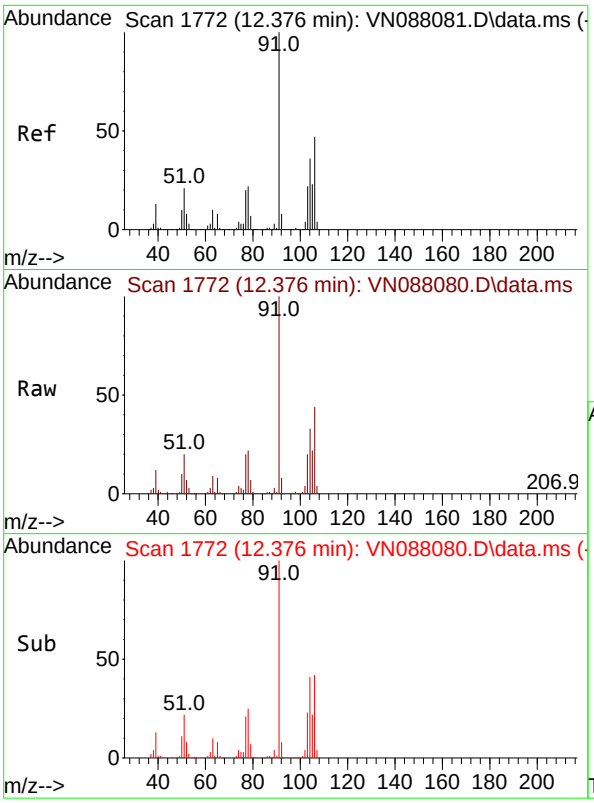


#68
m/p-Xylenes
Concen: 43.046 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:106 Resp: 312179

Ion	Ratio	Lower	Upper
106	100		
91	207.7	169.3	253.9

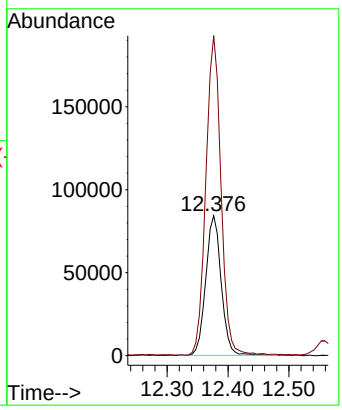




#69
o-Xylene
Concen: 21.585 ug/l
RT: 12.376 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:106 Resp: 14839

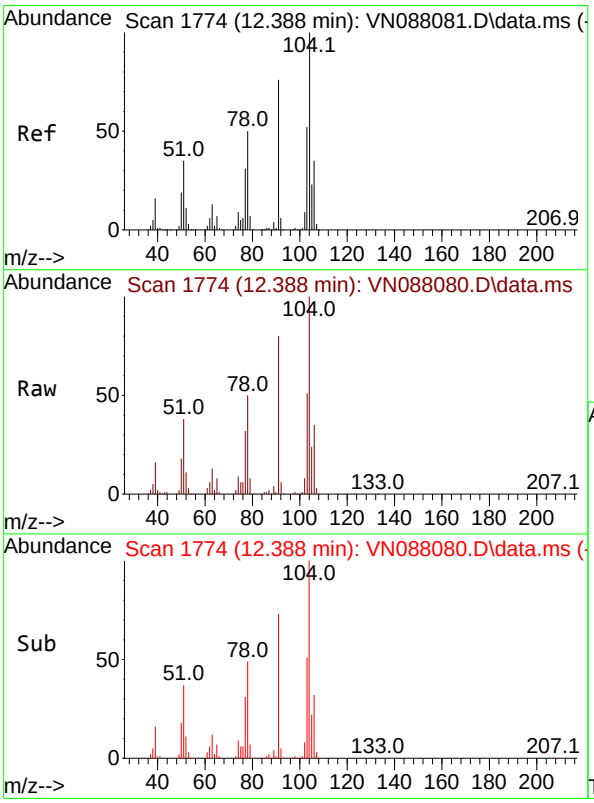
Ion	Ratio	Lower	Upper
106	100		
91	224.5	111.4	334.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

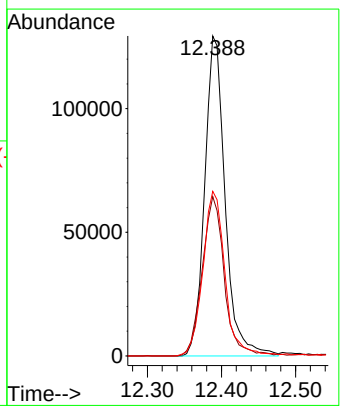
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

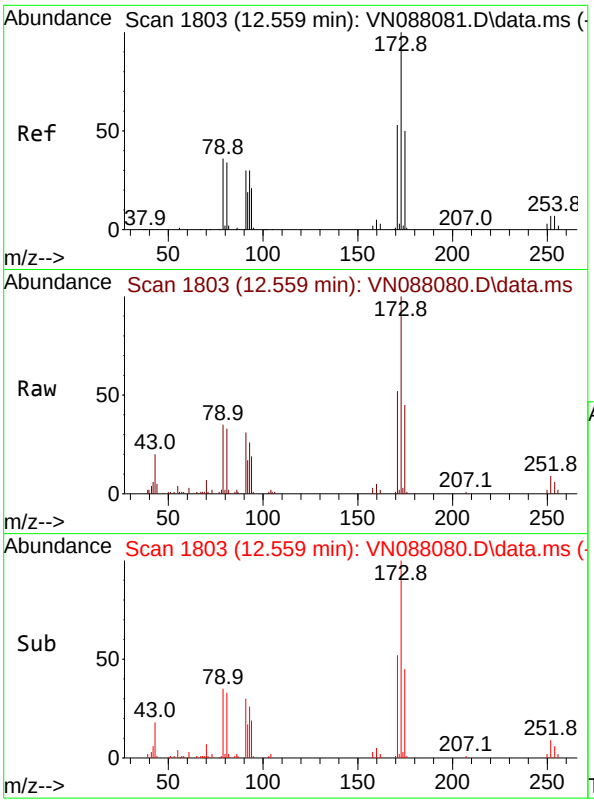


#70
Styrene
Concen: 22.103 ug/l
RT: 12.388 min Scan# 1774
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:104 Resp: 247794

Ion	Ratio	Lower	Upper
104	100		
78	54.1	42.2	63.2
103	55.8	43.4	65.2

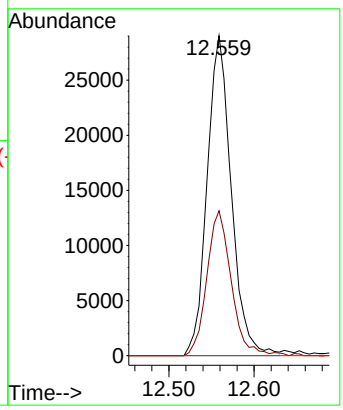




#71
Bromoform
Concen: 21.214 ug/l
RT: 12.559 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:173 Resp: 5719

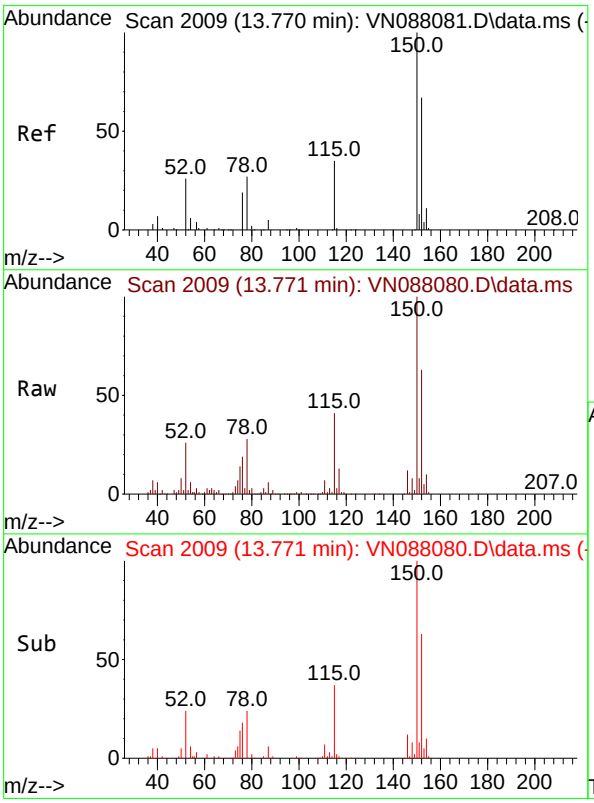
Ion	Ratio	Lower	Upper
173	100		
175	45.7	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

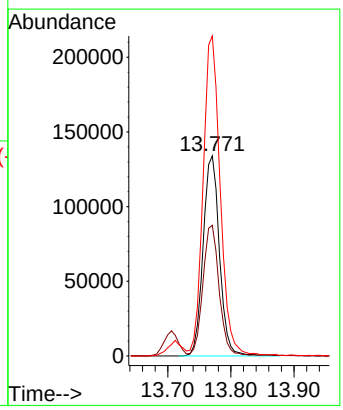
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

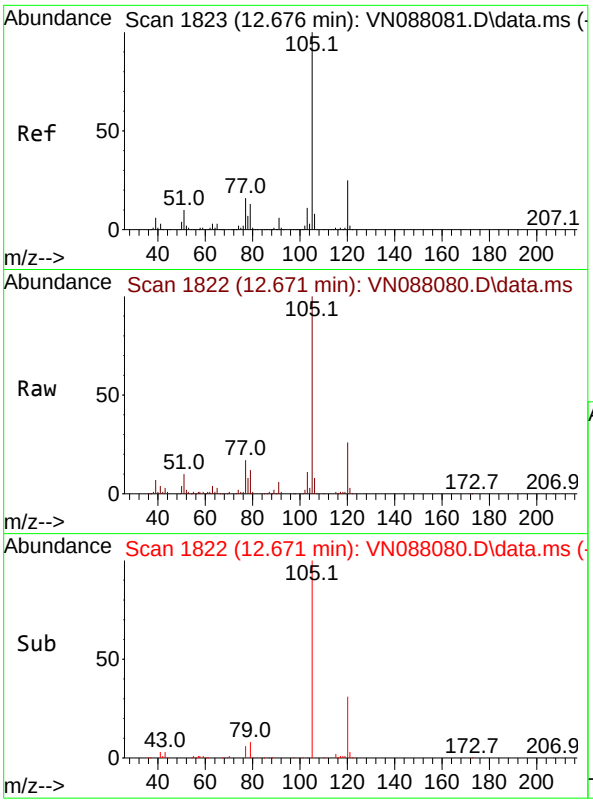


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:152 Resp: 241242

Ion	Ratio	Lower	Upper
152	100		
115	63.9	32.3	96.8
150	167.1	0.0	351.0

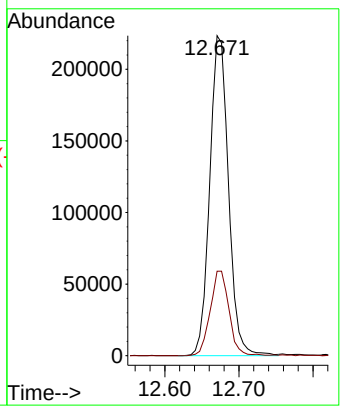




#73
Isopropylbenzene
Concen: 21.093 ug/l
RT: 12.671 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:105 Resp: 39247

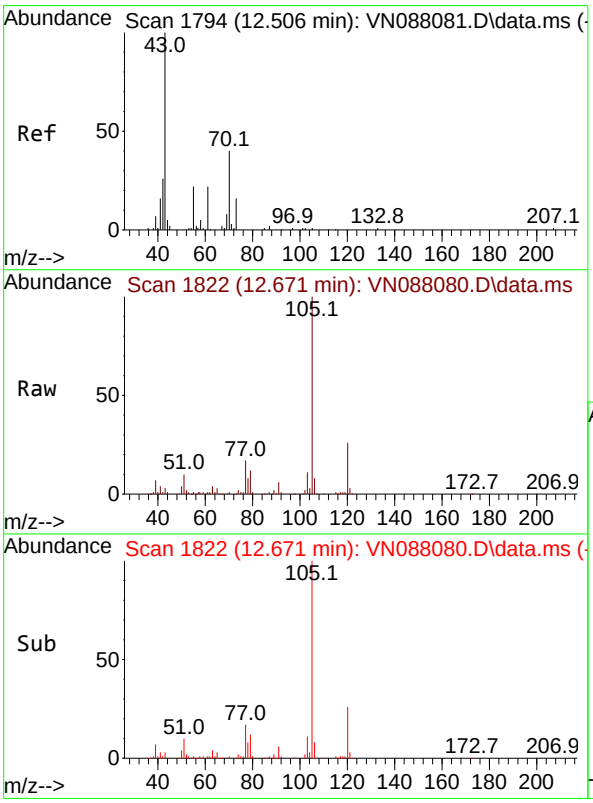
Ion	Ratio	Lower	Upper
105	100		
120	26.4	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

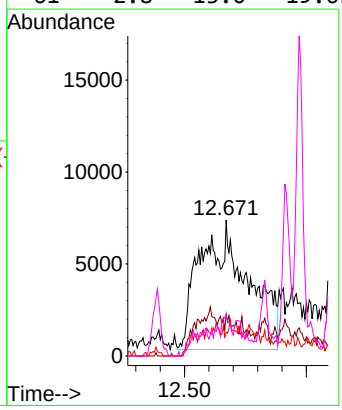
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

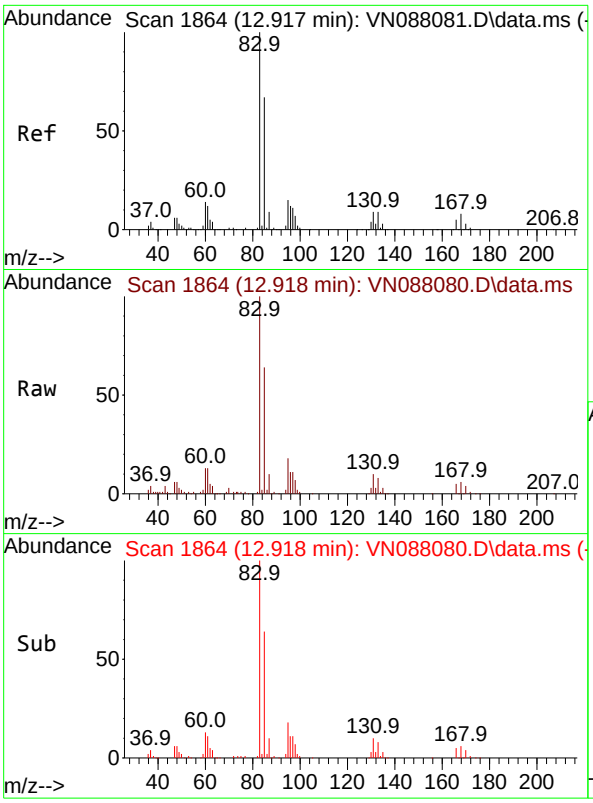


#74
N-amyl acetate
Concen: 17.796 ug/l m
RT: 12.671 min Scan# 1822
Delta R.T. 0.171 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 43 Resp: 95839

Ion	Ratio	Lower	Upper
43	100		
70	0.0	27.6	41.4#
55	1.8	13.0	19.6#
61	2.8	13.0	19.6#

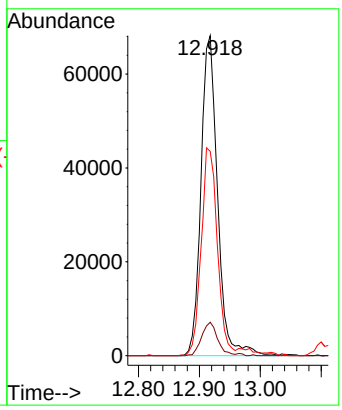




#75
1,1,2,2-Tetrachloroethane
Concen: 22.253 ug/l
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 83 Resp: 12890

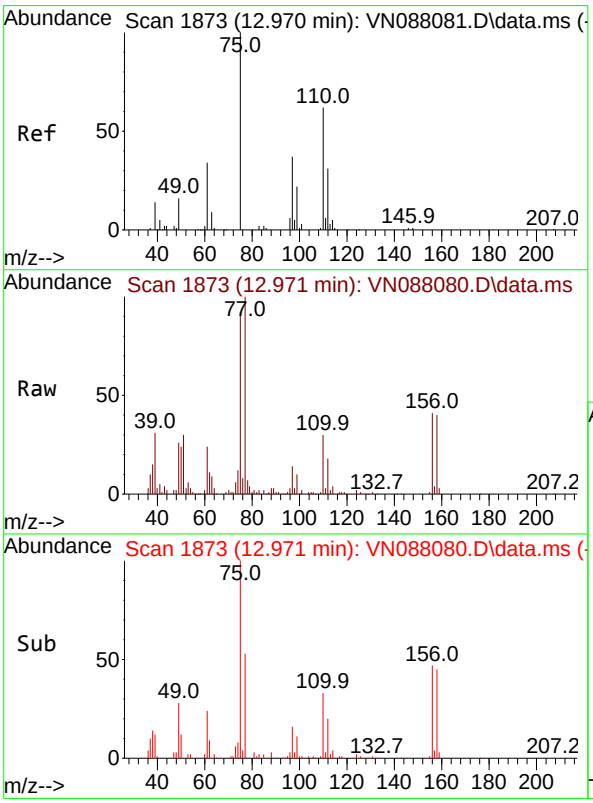
Ion	Ratio	Lower	Upper
83	100		
131	10.3	4.8	14.4
85	63.0	32.1	96.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

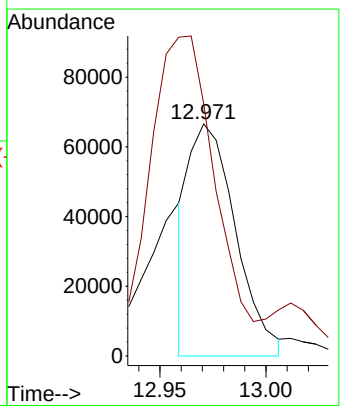
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

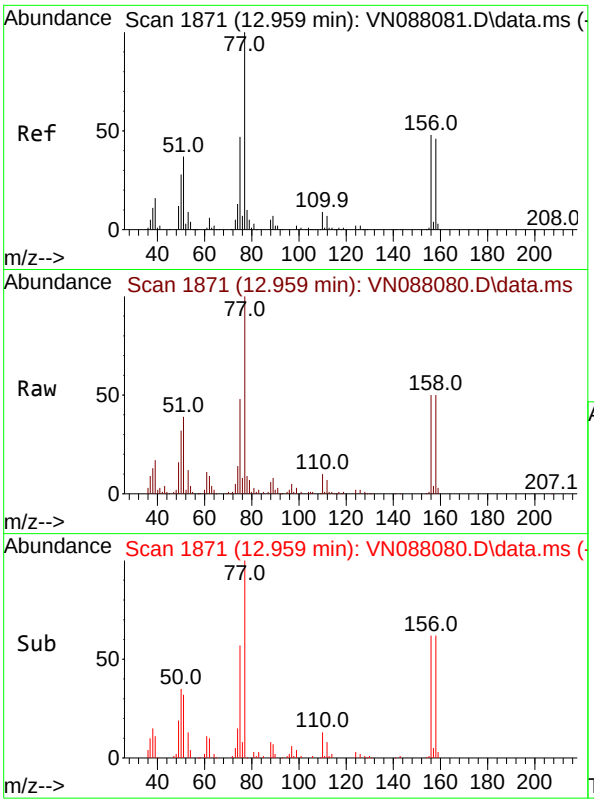


#76
1,2,3-Trichloropropane
Concen: 19.844 ug/l m
RT: 12.971 min Scan# 1873
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 75 Resp: 102475

Ion	Ratio	Lower	Upper
75	100		
77	194.8	89.1	267.4

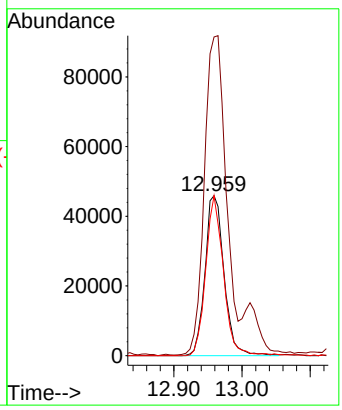




#77
Bromobenzene
Concen: 22.261 ug/l
RT: 12.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:156 Resp: 8931

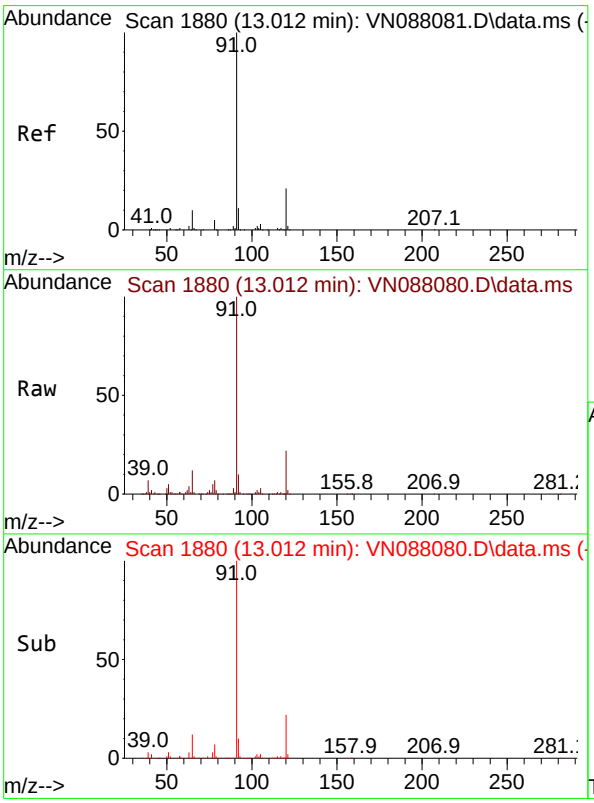
Ion	Ratio	Lower	Upper
156	100		
77	223.5	119.3	358.0
158	92.8	48.2	144.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

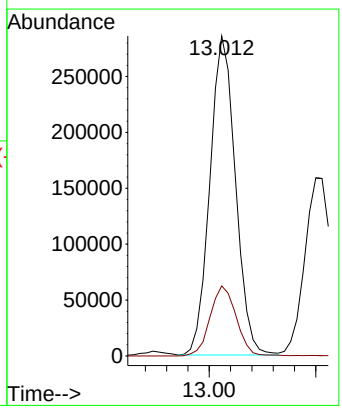
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

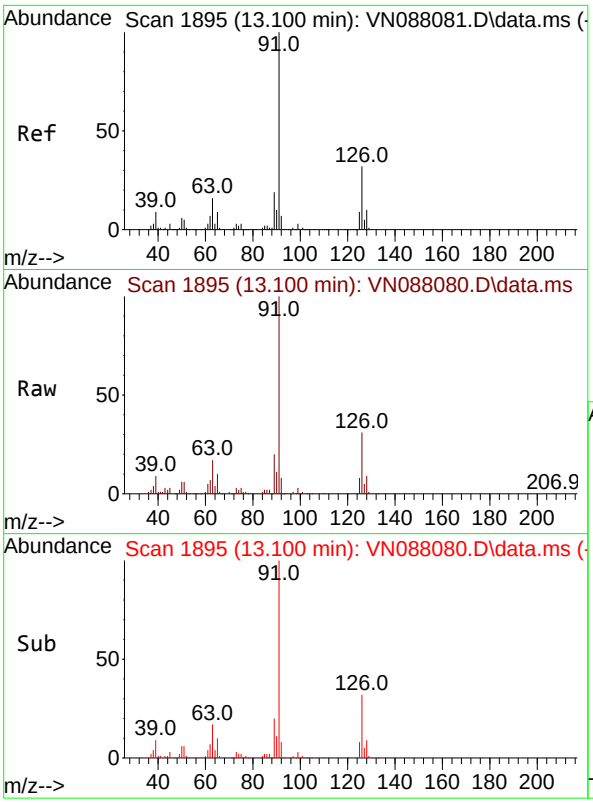


#78
n-propylbenzene
Concen: 20.952 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 91 Resp: 475747

Ion	Ratio	Lower	Upper
91	100		
120	22.4	10.7	32.1

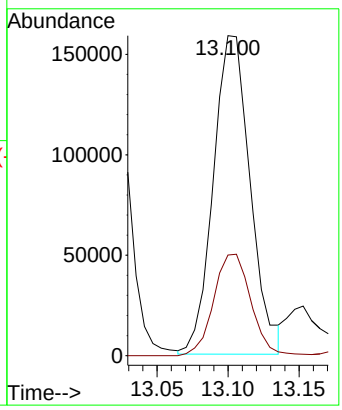




#79
2-Chlorotoluene
Concen: 22.160 ug/l
RT: 13.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 91 Resp: 28695

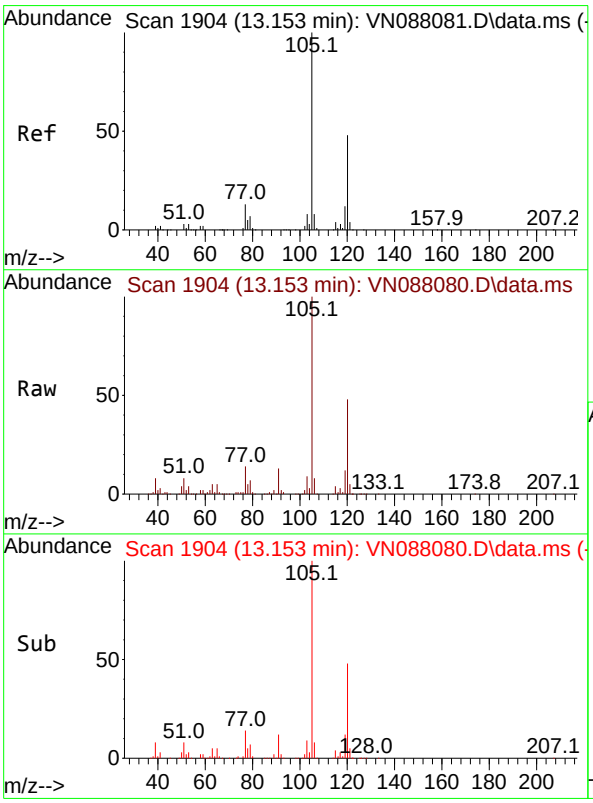
Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.1	48.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

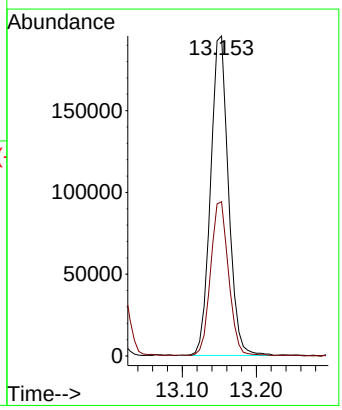
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

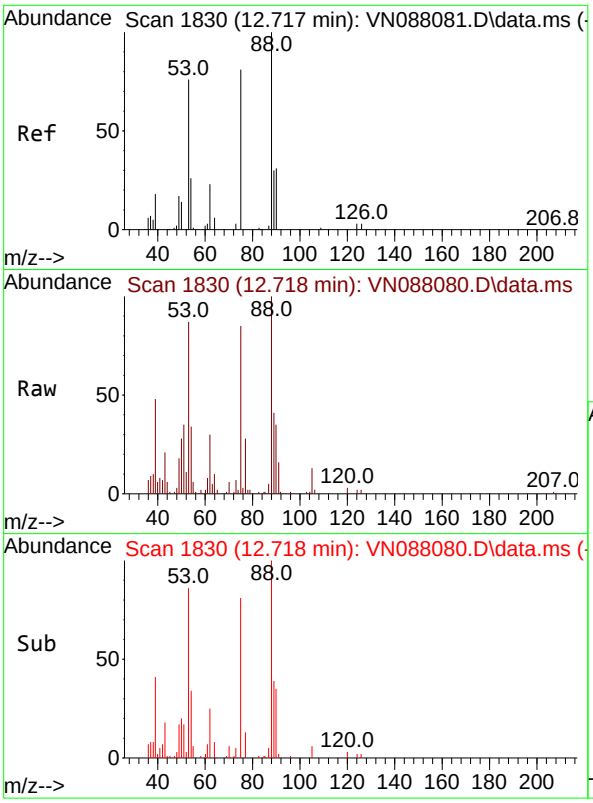


#80
1,3,5-Trimethylbenzene
Concen: 21.139 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:105 Resp: 326659

Ion	Ratio	Lower	Upper
105	100		
120	48.6	23.2	69.6

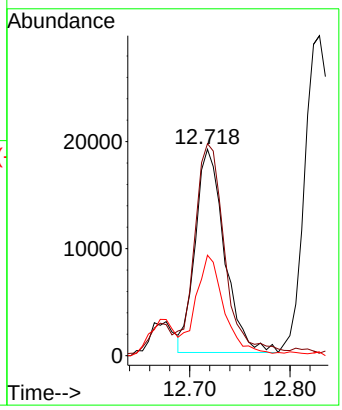




#81
trans-1,4-Dichloro-2-butene
Concen: 19.415 ug/l
RT: 12.718 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 75 Resp: 3848

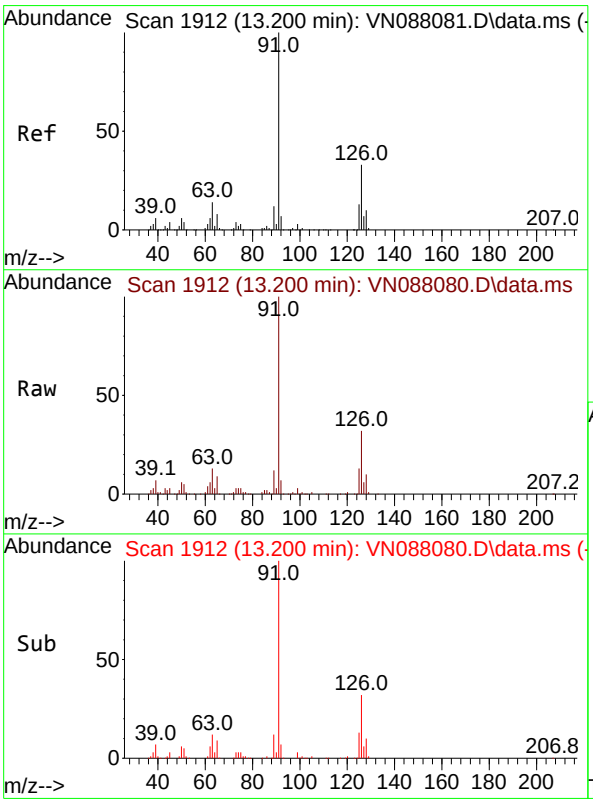
Ion	Ratio	Lower	Upper
75	100		
53	103.7	101.8	152.6
89	46.8	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

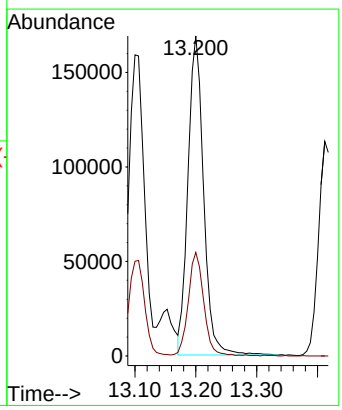
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

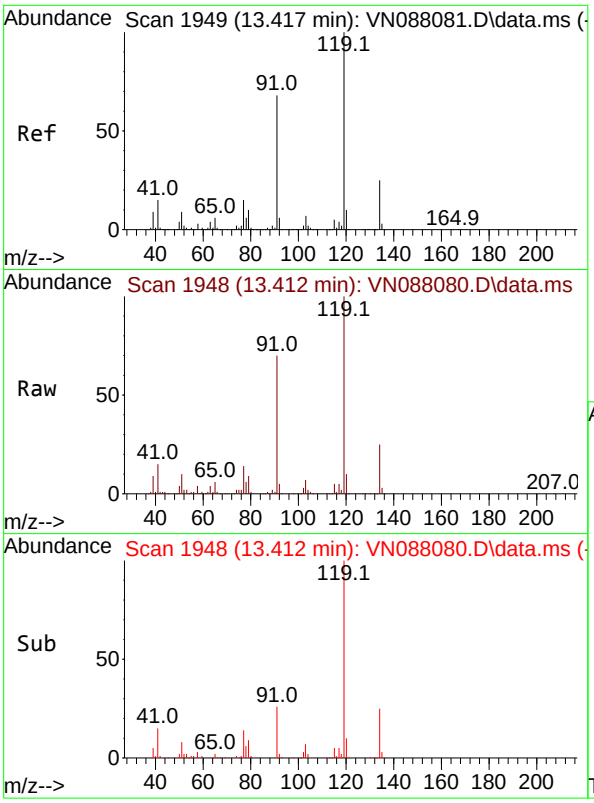


#82
4-Chlorotoluene
Concen: 21.446 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 91 Resp: 300449

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.6	46.8

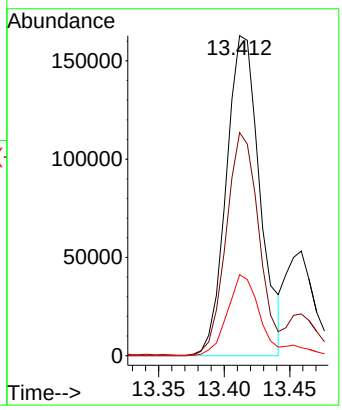




#83
tert-Butylbenzene
Concen: 20.986 ug/l
RT: 13.412 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:119 Resp: 28968

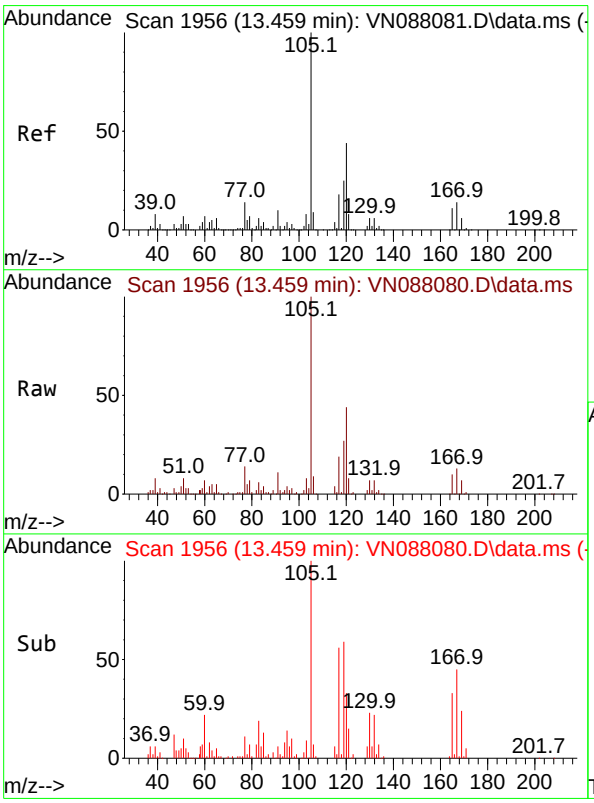
Ion	Ratio	Lower	Upper
119	100		
91	67.8	35.0	105.0
134	26.3	12.6	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

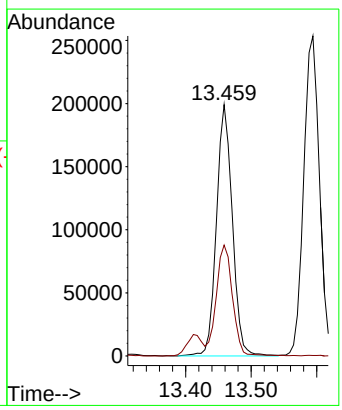
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

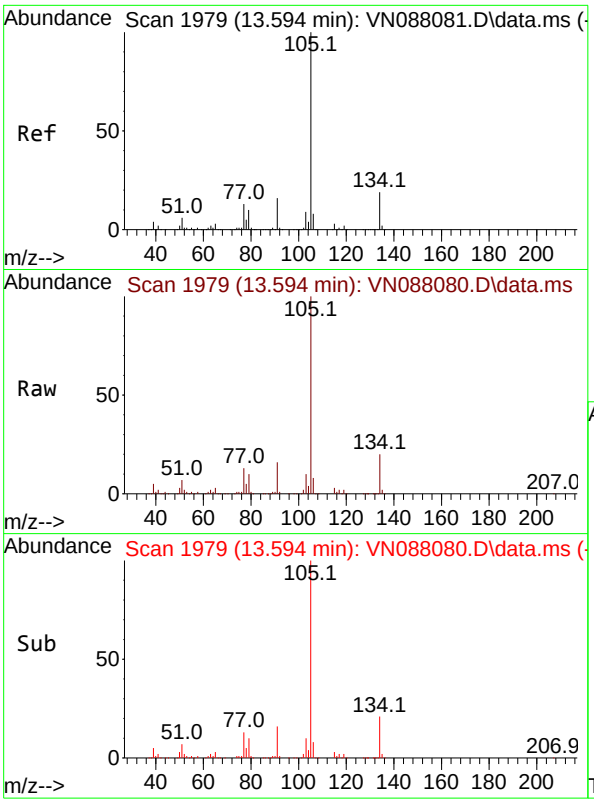


#84
1,2,4-Trimethylbenzene
Concen: 21.627 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:105 Resp: 334370

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.0	66.0

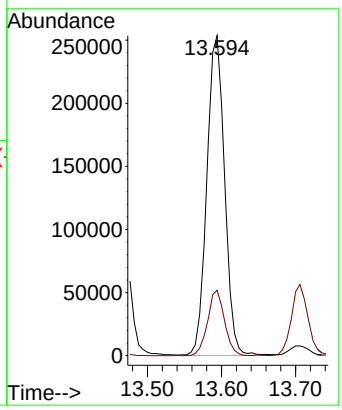




#85
sec-Butylbenzene
Concen: 20.848 ug/l
RT: 13.594 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:105 Resp: 42280

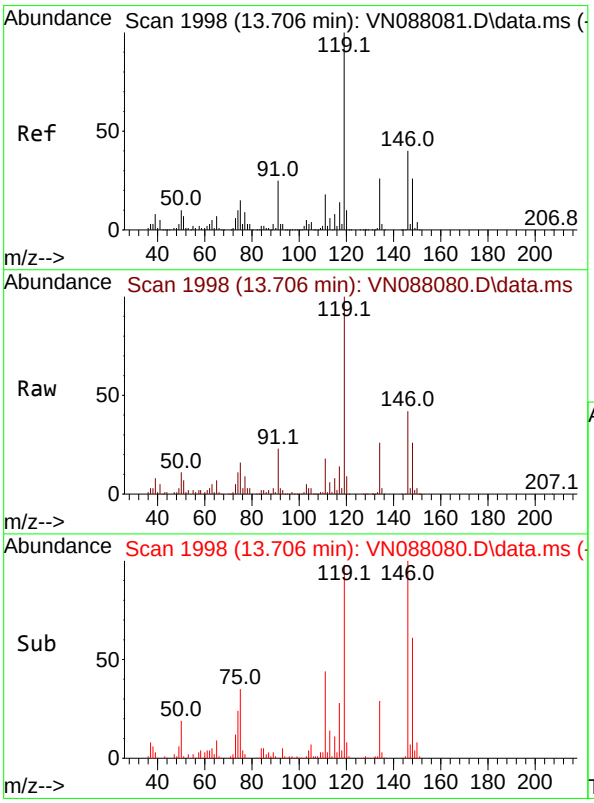
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.6	28.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

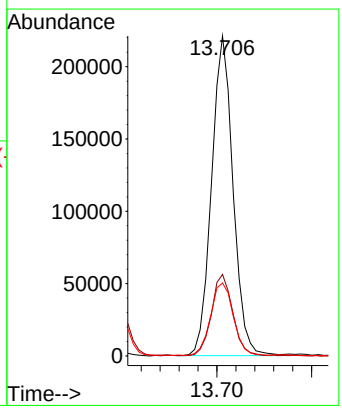
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

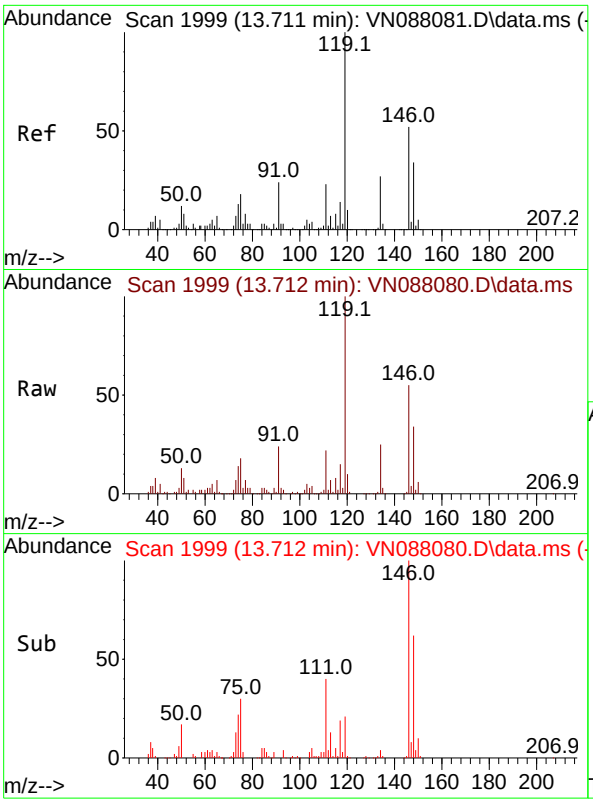


#86
p-Isopropyltoluene
Concen: 21.364 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:119 Resp: 347584

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.7	38.0
91	23.8	12.5	37.5

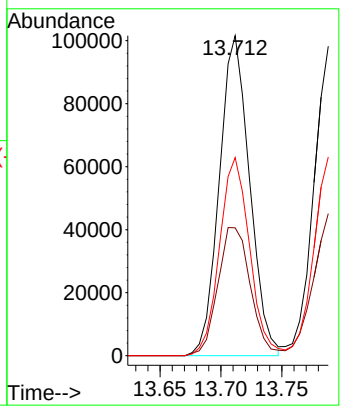




#87
1,3-Dichlorobenzene
Concen: 21.951 ug/l
RT: 13.712 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:146 Resp: 17582

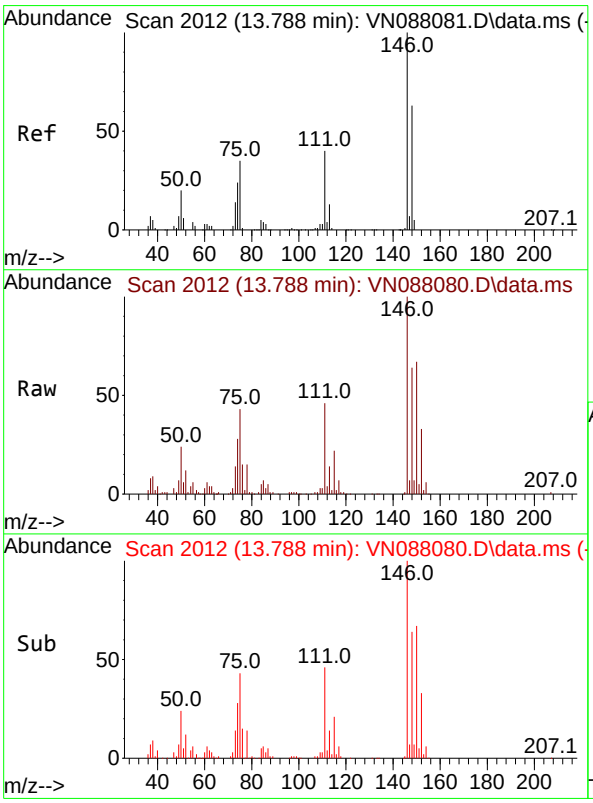
Ion	Ratio	Lower	Upper
146	100		
111	43.3	22.1	66.5
148	61.6	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

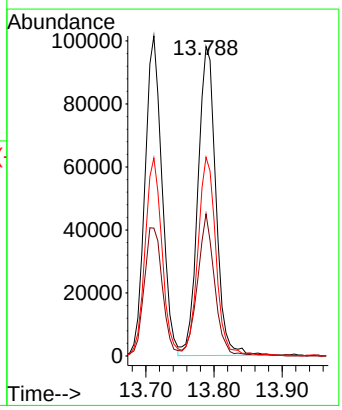
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

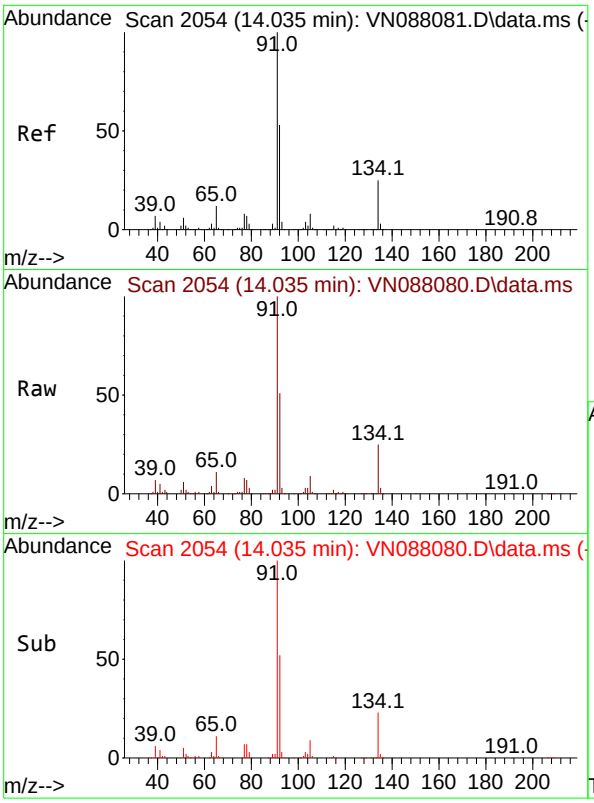


#88
1,4-Dichlorobenzene
Concen: 20.841 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:146 Resp: 179756

Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.0	63.0
148	63.4	32.0	96.0

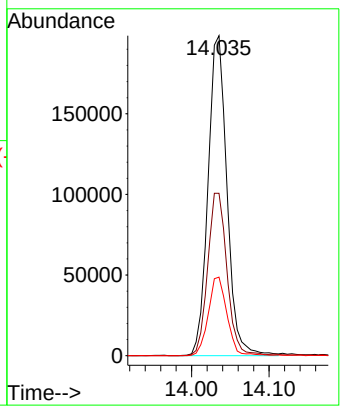




#89
n-Butylbenzene
Concen: 20.915 ug/l
RT: 14.035 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 91 Resp: 33705

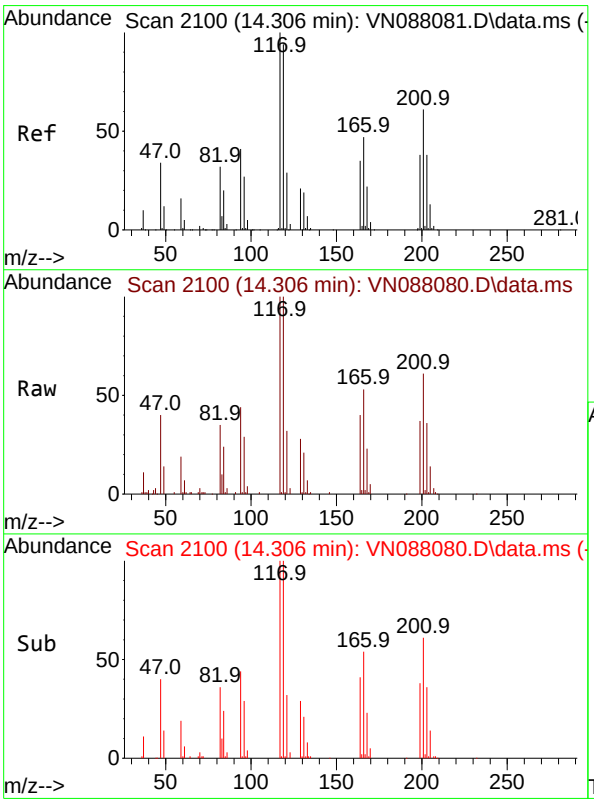
Ion	Ratio	Lower	Upper
91	100		
92	51.9	25.9	77.8
134	24.3	11.7	35.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

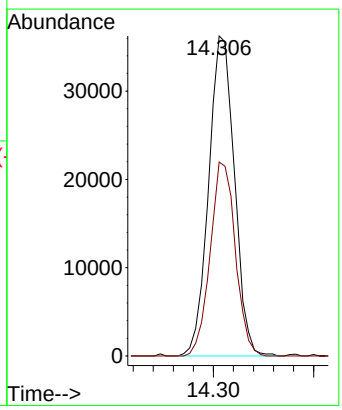
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

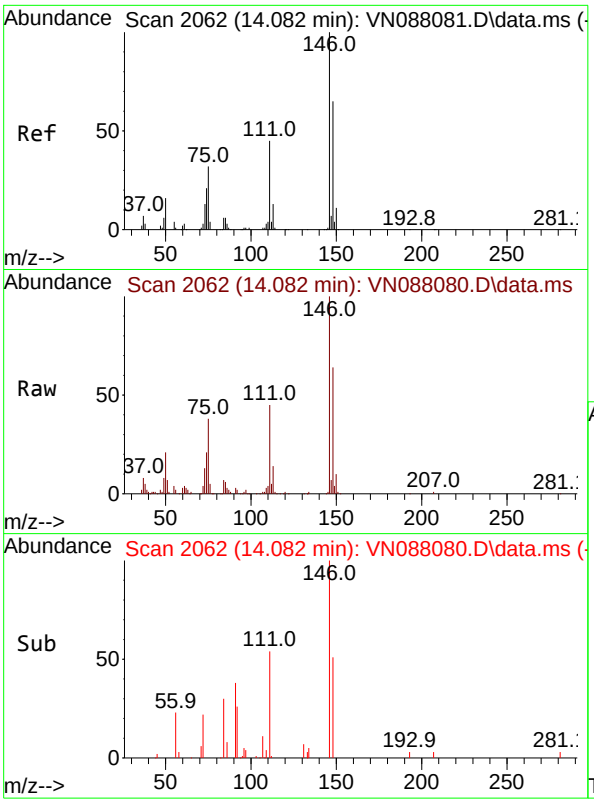


#90
Hexachloroethane
Concen: 20.558 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:117 Resp: 64770

Ion	Ratio	Lower	Upper
117	100		
201	59.0	29.1	87.4

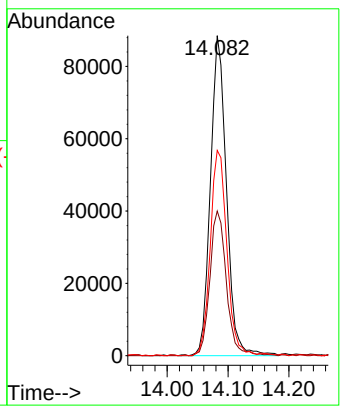




#91
1,2-Dichlorobenzene
Concen: 20.971 ug/l
RT: 14.082 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:146 Resp: 16191

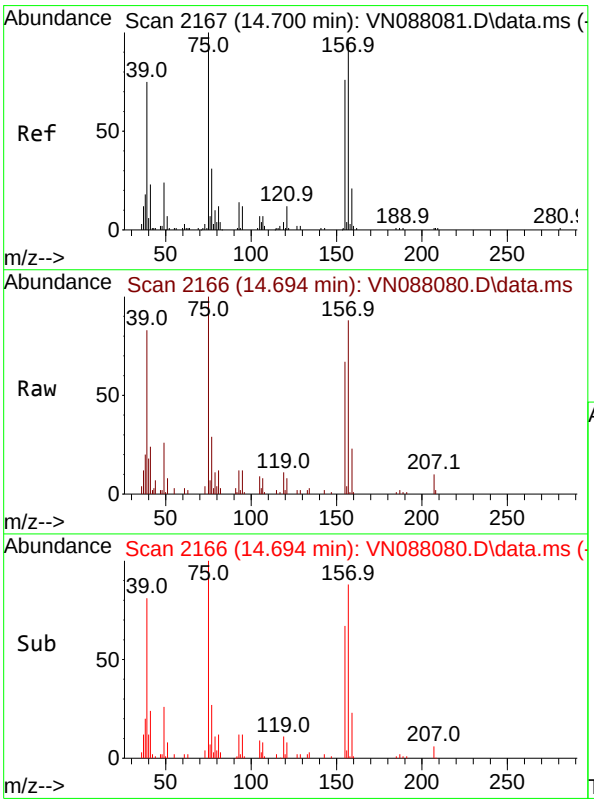
Ion	Ratio	Lower	Upper
146	100		
111	46.5	22.6	67.8
148	66.3	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

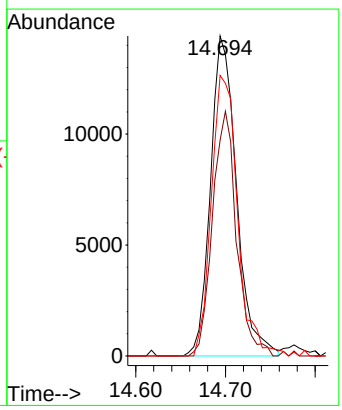
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

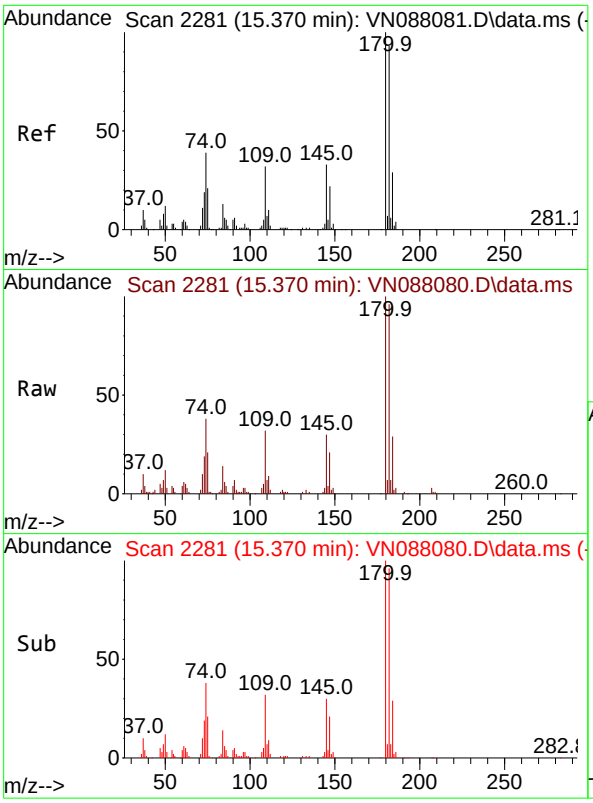


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.527 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. -0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion: 75 Resp: 29025

Ion	Ratio	Lower	Upper
75	100		
155	70.8	36.6	109.9
157	88.3	45.6	136.9

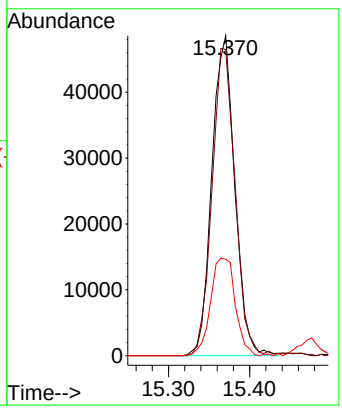




#93
1,2,4-Trichlorobenzene
Concen: 20.412 ug/l
RT: 15.370 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:180 Resp: 9544

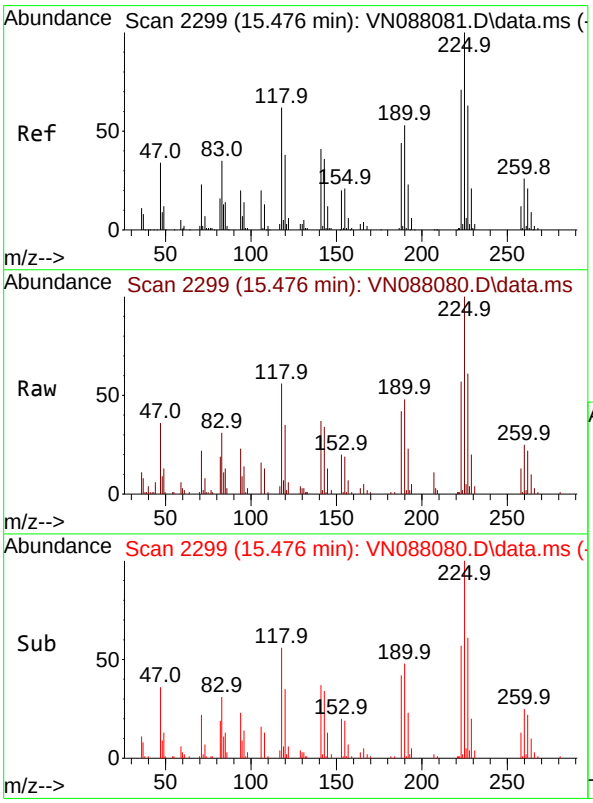
Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.6	142.9
145	32.8	16.5	49.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

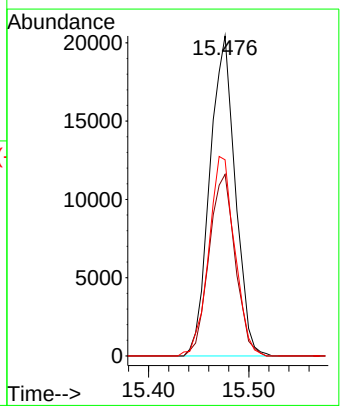
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

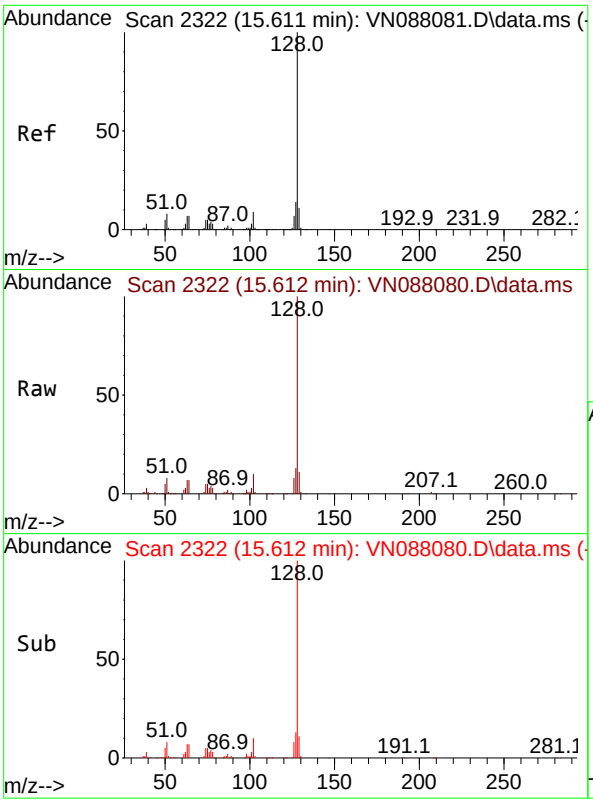


#94
Hexachlorobutadiene
Concen: 20.651 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:225 Resp: 35960

Ion	Ratio	Lower	Upper
225	100		
223	58.5	32.0	96.2
227	63.8	32.1	96.5

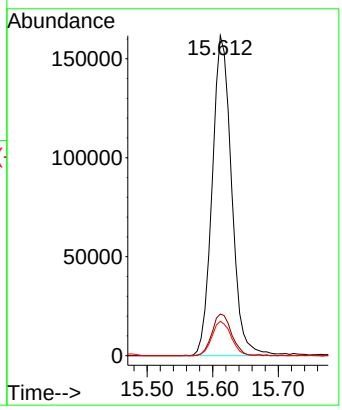




#95
Naphthalene
Concen: 20.704 ug/l
RT: 15.612 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:128 Resp: 33164

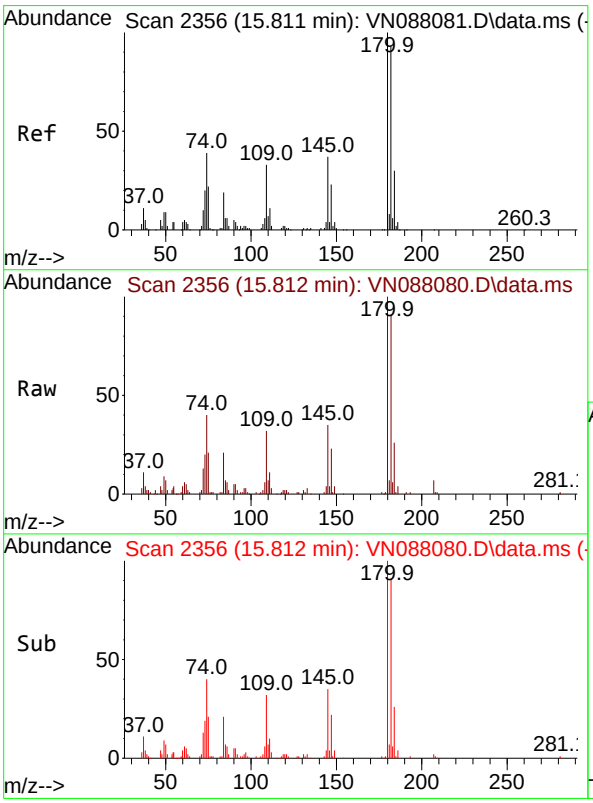
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	15.8
129	10.7	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

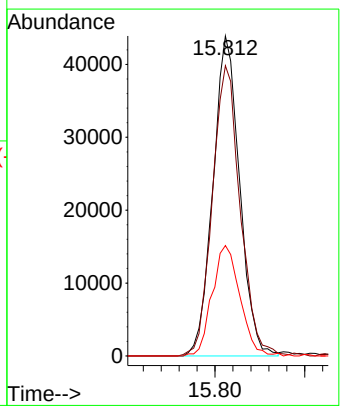
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.157 ug/l
RT: 15.812 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088080.D
Acq: 23 Oct 2025 10:59

Tgt Ion:180 Resp: 90374

Ion	Ratio	Lower	Upper
180	100		
182	94.7	46.8	140.3
145	36.1	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088081.D
Acq On : 23 Oct 2025 11:20
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Quant Time: Oct 24 02:42:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:37:20 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	338069	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	628399	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	559795	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	281739	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	270271	46.232	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.460%		
35) Dibromofluoromethane	8.147	113	198004	46.902	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.800%		
50) Toluene-d8	10.547	98	768846	47.265	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.540%		
62) 4-Bromofluorobenzene	12.829	95	275556	47.966	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	95.940%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	154728	40.575	ug/l	97
3) Chloromethane	2.383	50	175497	39.118	ug/l	100
4) Vinyl Chloride	2.542	62	196434	40.185	ug/l	98
5) Bromomethane	2.977	94	115396	39.468	ug/l	97
6) Chloroethane	3.142	64	139507	39.611	ug/l	97
7) Trichlorofluoromethane	3.512	101	322932	41.420	ug/l	94
8) Diethyl Ether	3.959	74	108102	37.307	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	160825	39.976	ug/l	97
10) Methyl Iodide	4.583	142	154156	39.794	ug/l	96
11) Tert butyl alcohol	5.524	59	195274	193.892	ug/l	97
12) 1,1-Dichloroethene	4.341	96	156355	36.797	ug/l	93
13) Acrolein	4.177	56	209393	184.839	ug/l	100
14) Allyl chloride	5.012	41	274719	36.996	ug/l	97
15) Acrylonitrile	5.712	53	547451	199.555	ug/l	98
16) Acetone	4.424	43	539588	183.727	ug/l	99
17) Carbon Disulfide	4.706	76	501402	38.818	ug/l	98
18) Methyl Acetate	5.018	43	232583	38.683	ug/l	97
19) Methyl tert-butyl Ether	5.783	73	605018	38.771	ug/l	96
20) Methylene Chloride	5.265	84	182571	40.095	ug/l	96
21) trans-1,2-Dichloroethene	5.771	96	181288	38.584	ug/l	95
22) Diisopropyl ether	6.659	45	636418	40.632	ug/l	97
23) Vinyl Acetate	6.588	43	2935326	208.046	ug/l	99
24) 1,1-Dichloroethane	6.553	63	346792	39.970	ug/l	96
25) 2-Butanone	7.471	43	786350	205.282	ug/l	100
26) 2,2-Dichloropropane	7.471	77	311175	39.466	ug/l	100
27) cis-1,2-Dichloroethene	7.471	96	211777	39.442	ug/l	99
28) Bromochloromethane	7.794	49	199116	48.569	ug/l	99
29) Tetrahydrofuran	7.824	42	501146	198.682	ug/l	100
30) Chloroform	7.947	83	351684	40.574	ug/l	97
31) Cyclohexane	8.235	56	326389	39.886	ug/l	91
32) 1,1,1-Trichloroethane	8.153	97	308171	39.919	ug/l	98
36) 1,1-Dichloropropene	8.353	75	254886	41.351	ug/l	98
37) Ethyl Acetate	7.547	43	308710	38.973	ug/l	96
38) Carbon Tetrachloride	8.347	117	262154	41.178	ug/l	93
39) Methylcyclohexane	9.582	83	329045	41.530	ug/l	97
40) Benzene	8.588	78	764344	40.717	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088081.D
Acq On : 23 Oct 2025 11:20
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 24 02:42:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:37:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.765	41	169994	40.604	ug/l		100
42) 1,2-Dichloroethane	8.653	62	274103	41.094	ug/l		100
43) Isopropyl Acetate	8.671	43	509309	41.668	ug/l		99
44) Trichloroethene	9.335	130	178438	40.667	ug/l		100
45) 1,2-Dichloropropane	9.600	63	192587	40.637	ug/l		97
46) Dibromomethane	9.688	93	137229	40.600	ug/l		99
47) Bromodichloromethane	9.871	83	275730	40.745	ug/l		97
48) Methyl methacrylate	9.659	41	233909	40.288	ug/l		96
49) 1,4-Dioxane	9.682	88	55303	787.940	ug/l	#	97
51) 4-Methyl-2-Pentanone	10.423	43	1524408	210.814	ug/l		99
52) Toluene	10.606	92	474479	40.995	ug/l		99
53) t-1,3-Dichloropropene	10.818	75	300895	41.776	ug/l		99
54) cis-1,3-Dichloropropene	10.294	75	314717	41.178	ug/l		95
55) 1,1,2-Trichloroethane	10.994	97	176797	40.263	ug/l		98
56) Ethyl methacrylate	10.853	69	298768	43.059	ug/l		97
57) 1,3-Dichloropropane	11.141	76	317787	41.174	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.141	63	769938	213.014	ug/l		100
59) 2-Hexanone	11.176	43	1044741	220.085	ug/l		98
60) Dibromochloromethane	11.335	129	205395	41.154	ug/l		100
61) 1,2-Dibromoethane	11.447	107	181469	40.156	ug/l		97
64) Tetrachloroethene	11.082	164	144389	39.103	ug/l		96
65) Chlorobenzene	11.870	112	526904	41.452	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.941	131	173604	41.687	ug/l		99
67) Ethyl Benzene	11.941	91	923328	41.382	ug/l		100
68) m/p-Xylenes	12.047	106	710517	84.991	ug/l		95
69) o-Xylene	12.376	106	337999	42.650	ug/l		97
70) Styrene	12.388	104	565710	43.775	ug/l		99
71) Bromoform	12.559	173	130569	42.013	ug/l	#	99
73) Isopropylbenzene	12.676	105	893962	41.140	ug/l		98
74) N-amyl acetate	12.506	43	259151m	51.362	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.917	83	269498	39.836	ug/l		99
76) 1,2,3-Trichloropropane	12.970	75	261895m	43.425	ug/l		
77) Bromobenzene	12.959	156	193682	41.334	ug/l		98
78) n-propylbenzene	13.012	91	1105898	41.704	ug/l		98
79) 2-Chlorotoluene	13.100	91	632531	41.827	ug/l		100
80) 1,3,5-Trimethylbenzene	13.153	105	751960	41.667	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.717	75	89183	38.524	ug/l	#	81
82) 4-Chlorotoluene	13.200	91	660605	40.376	ug/l		97
83) tert-Butylbenzene	13.417	119	664441	41.215	ug/l		97
84) 1,2,4-Trimethylbenzene	13.459	105	760563	42.122	ug/l		99
85) sec-Butylbenzene	13.594	105	983204	41.511	ug/l		100
86) p-Isopropyltoluene	13.706	119	807519	42.500	ug/l		99
87) 1,3-Dichlorobenzene	13.711	146	388787	41.563	ug/l		99
88) 1,4-Dichlorobenzene	13.788	146	394135	39.127	ug/l		98
89) n-Butylbenzene	14.035	91	796348	42.312	ug/l		99
90) Hexachloroethane	14.306	117	150804	40.985	ug/l		96
91) 1,2-Dichlorobenzene	14.082	146	363732	40.339	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	60256	38.267	ug/l		96
93) 1,2,4-Trichlorobenzene	15.370	180	221034	40.476	ug/l		98
94) Hexachlorobutadiene	15.476	225	82469	40.553	ug/l		99
95) Naphthalene	15.611	128	769709	41.144	ug/l		100
96) 1,2,3-Trichlorobenzene	15.811	180	207445	39.618	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088081.D
Acq On : 23 Oct 2025 11:20
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 24 02:42:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:37:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

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

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

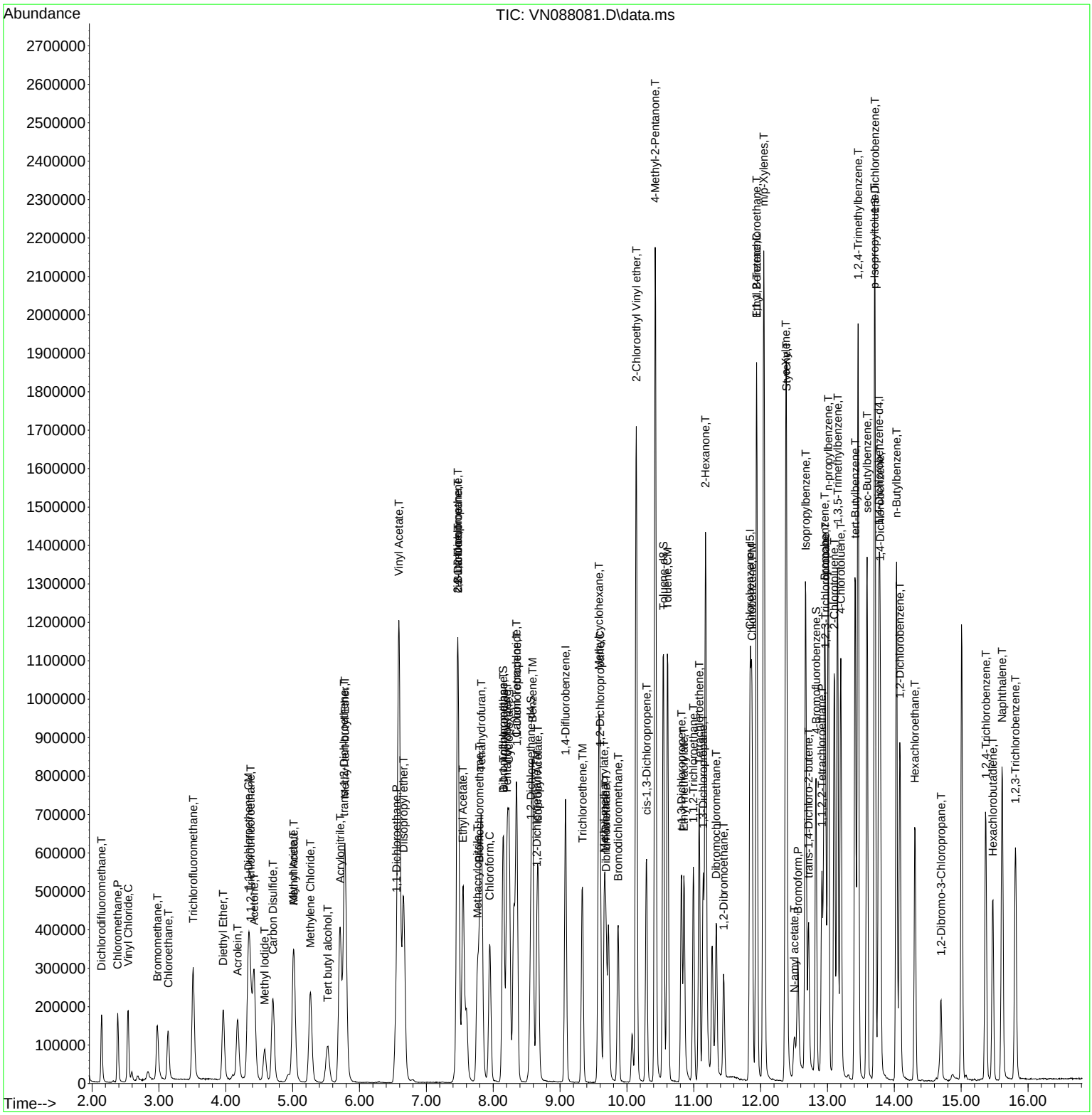
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Data File : VN088081.D
Acq On : 23 Oct 2025 11:20
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

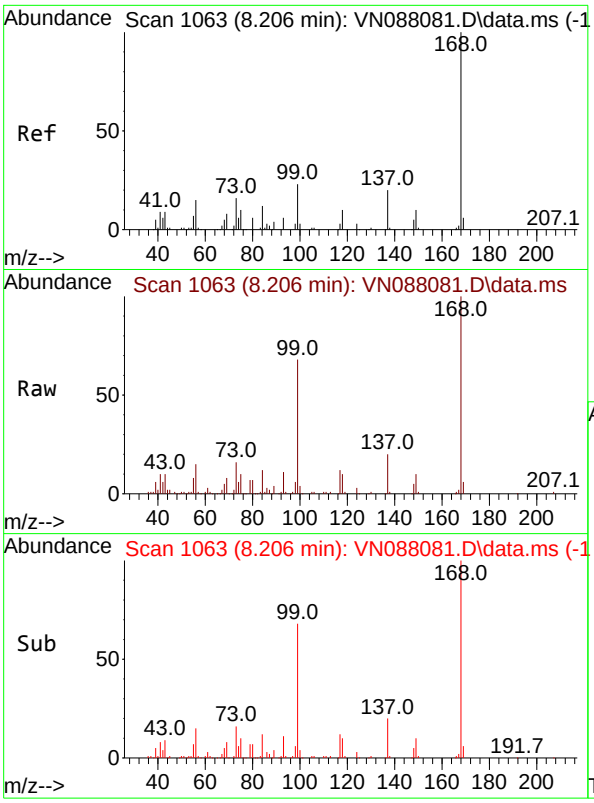
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Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:37:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
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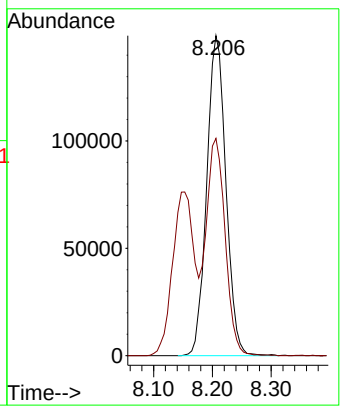




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:168 Resp: 33806

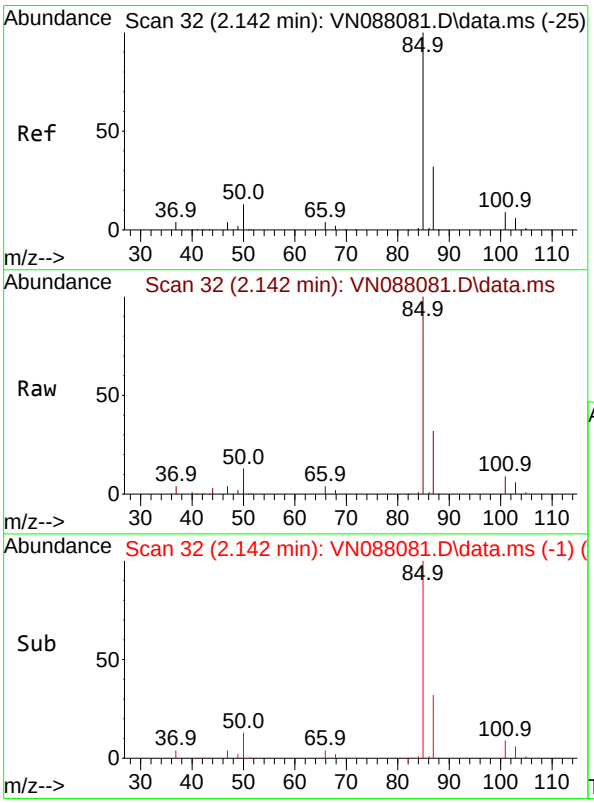
Ion	Ratio	Lower	Upper
168	100		
99	67.9	57.2	85.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

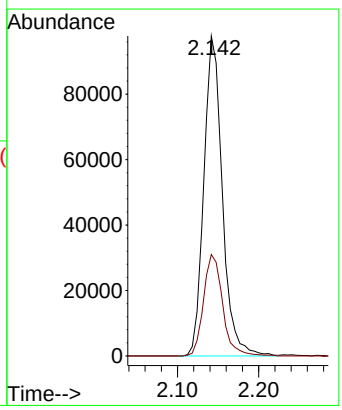
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

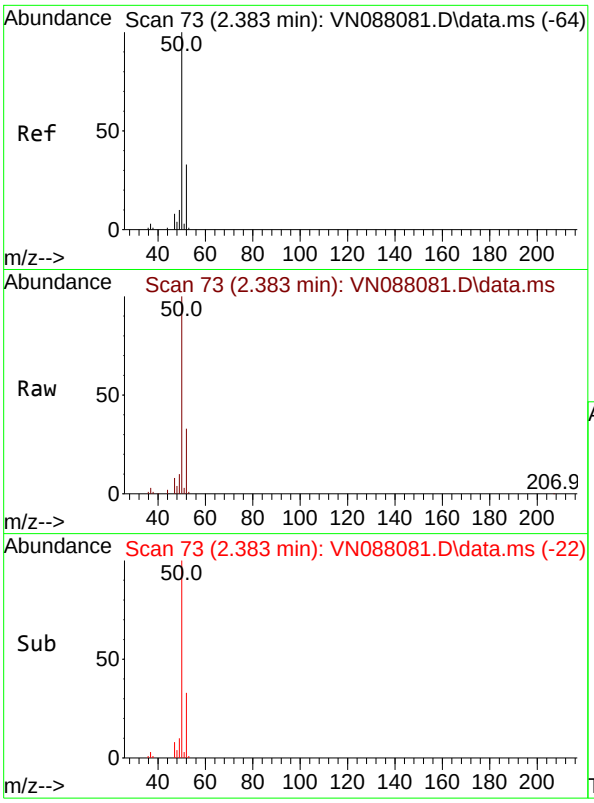


#2
Dichlorodifluoromethane
Concen: 40.575 ug/l
RT: 2.142 min Scan# 32
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 85 Resp: 154728

Ion	Ratio	Lower	Upper
85	100		
87	31.7	16.6	49.8

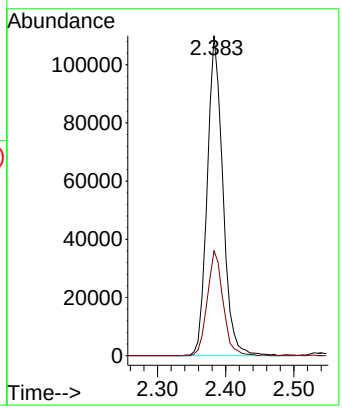




#3
Chloromethane
Concen: 39.118 ug/l
RT: 2.383 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 50 Resp: 17549

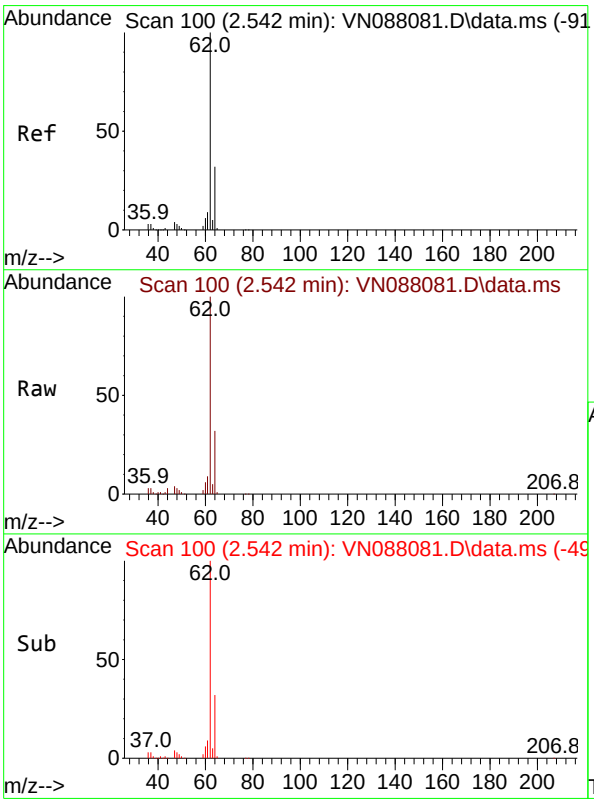
Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

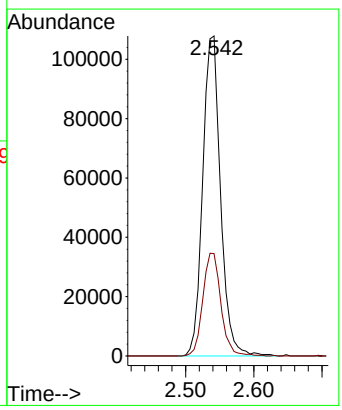
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

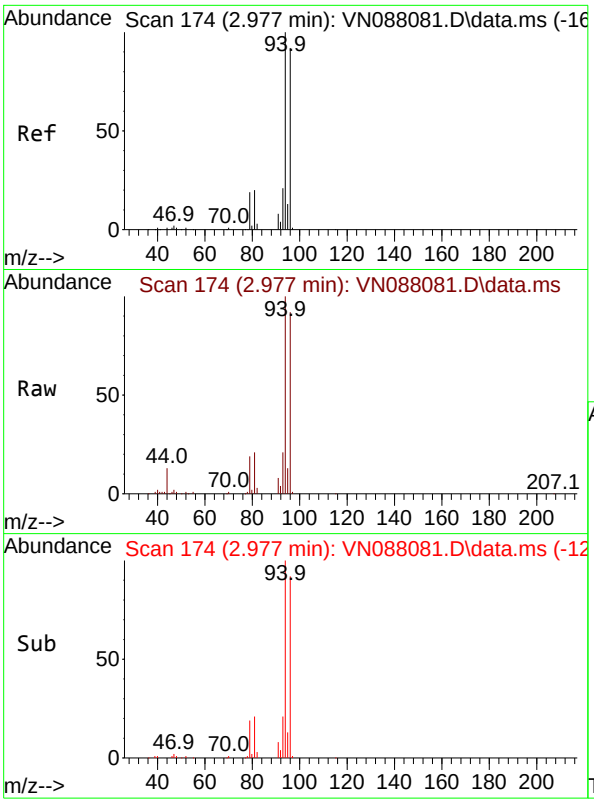


#4
Vinyl Chloride
Concen: 40.185 ug/l
RT: 2.542 min Scan# 100
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 62 Resp: 196434

Ion	Ratio	Lower	Upper
62	100		
64	32.0	24.6	37.0

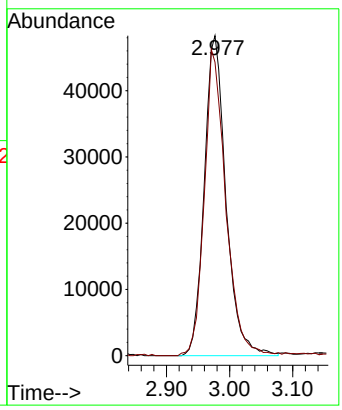




#5
Bromomethane
Concen: 39.468 ug/l
RT: 2.977 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 94 Resp: 11539

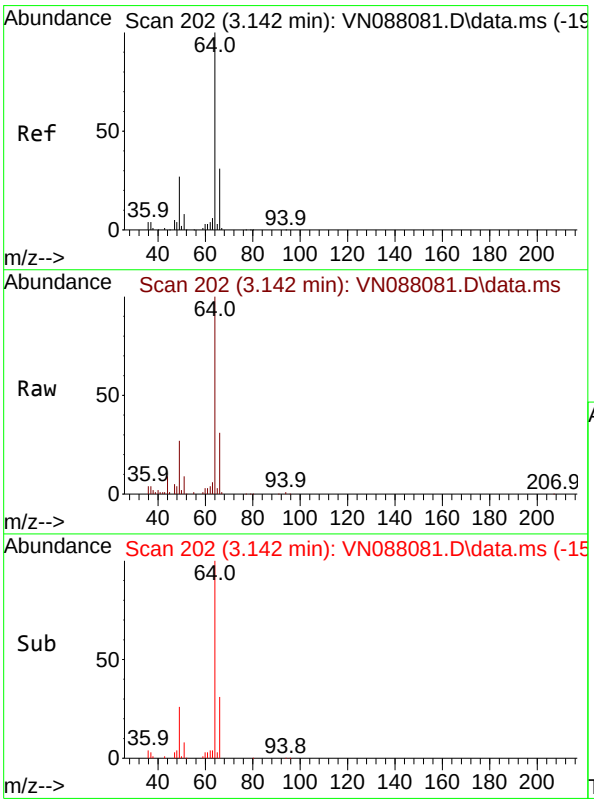
Ion	Ratio	Lower	Upper
94	100		
96	91.7	75.4	113.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

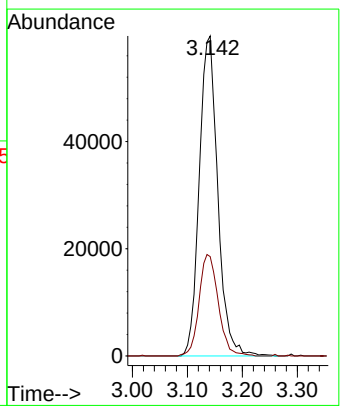
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

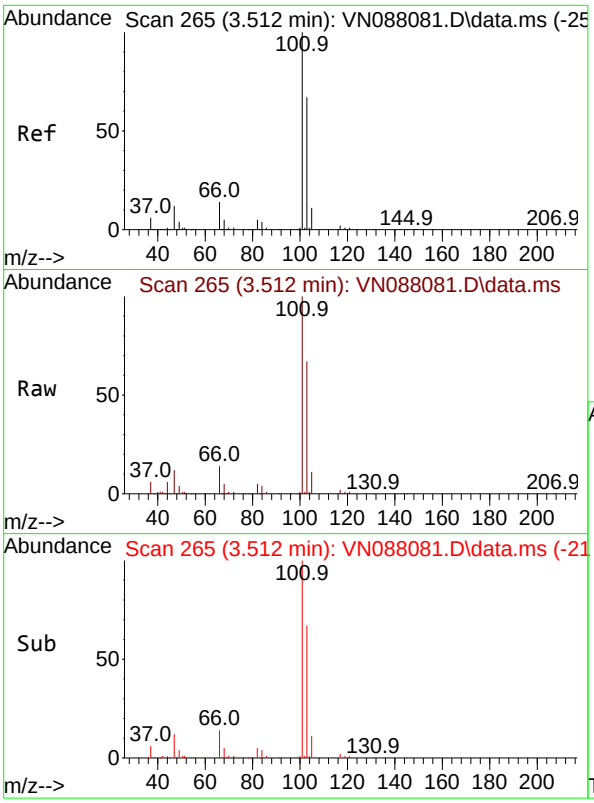


#6
Chloroethane
Concen: 39.611 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 64 Resp: 139507

Ion	Ratio	Lower	Upper
64	100		
66	31.0	26.2	39.2

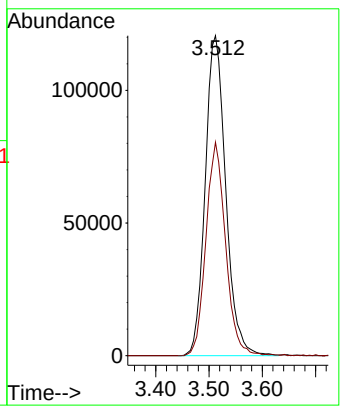




#7
Trichlorofluoromethane
Concen: 41.420 ug/l
RT: 3.512 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:101 Resp: 32293

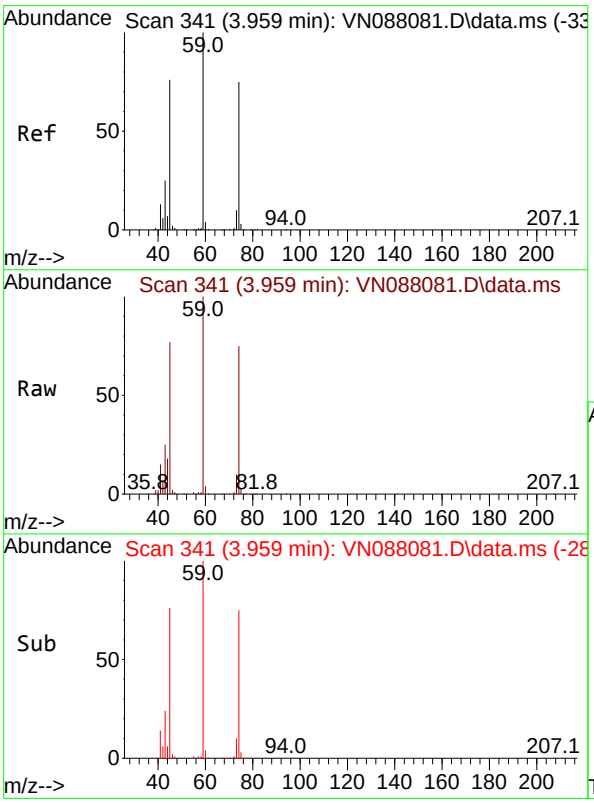
Ion	Ratio	Lower	Upper
101	100		
103	66.7	49.4	74.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

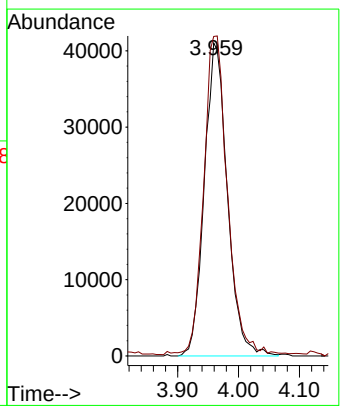
Reviewed By :John Carlone 10/24/2025
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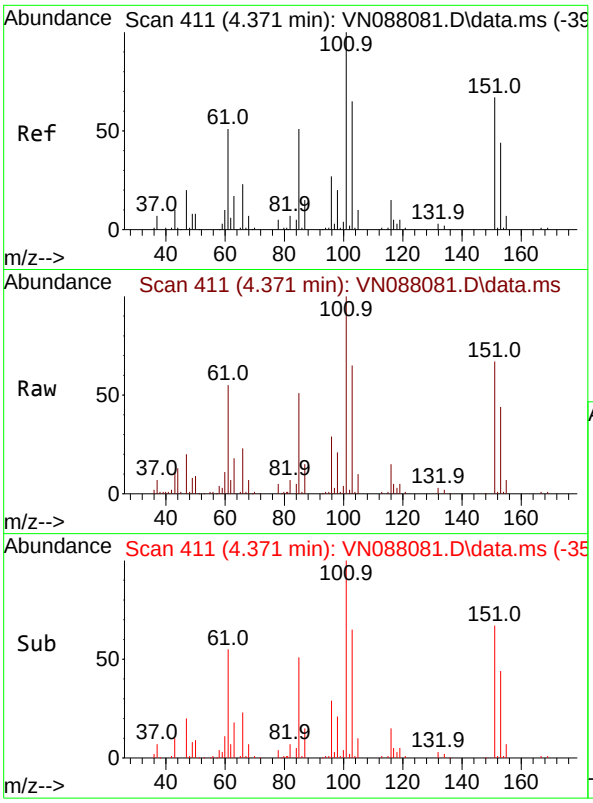


#8
Diethyl Ether
Concen: 37.307 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 74 Resp: 108102

Ion	Ratio	Lower	Upper
74	100		
45	103.0	50.6	151.9

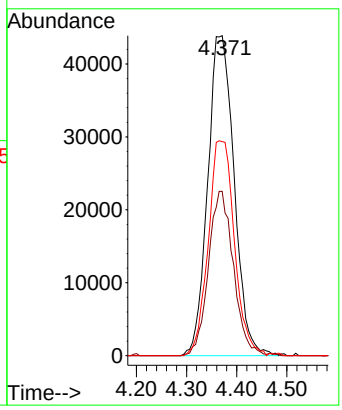




#9
1,1,2-Trichlorotrifluoroethane
Concen: 39.976 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:101 Resp: 16082

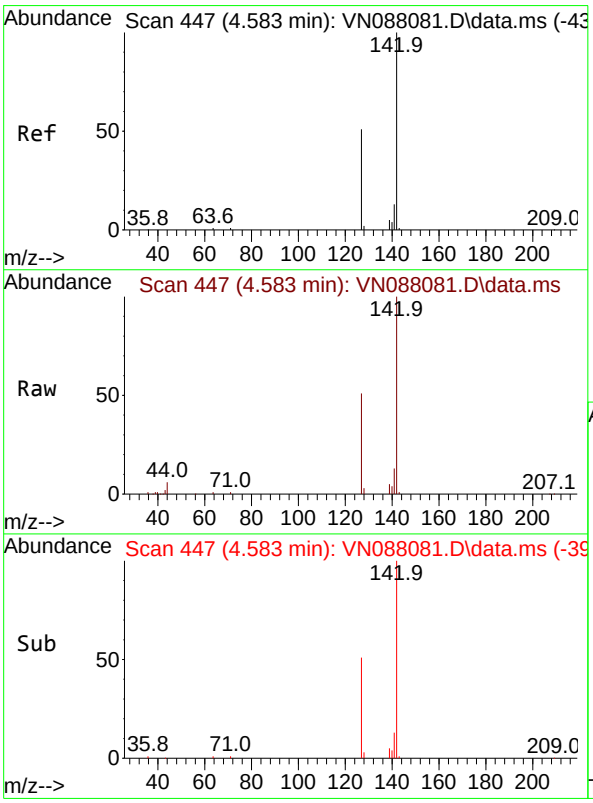
Ion	Ratio	Lower	Upper
101	100		
85	48.5	36.6	55.0
151	66.4	54.7	82.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

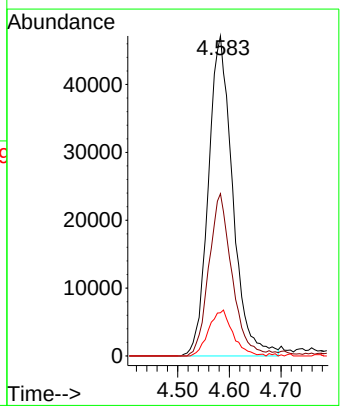
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

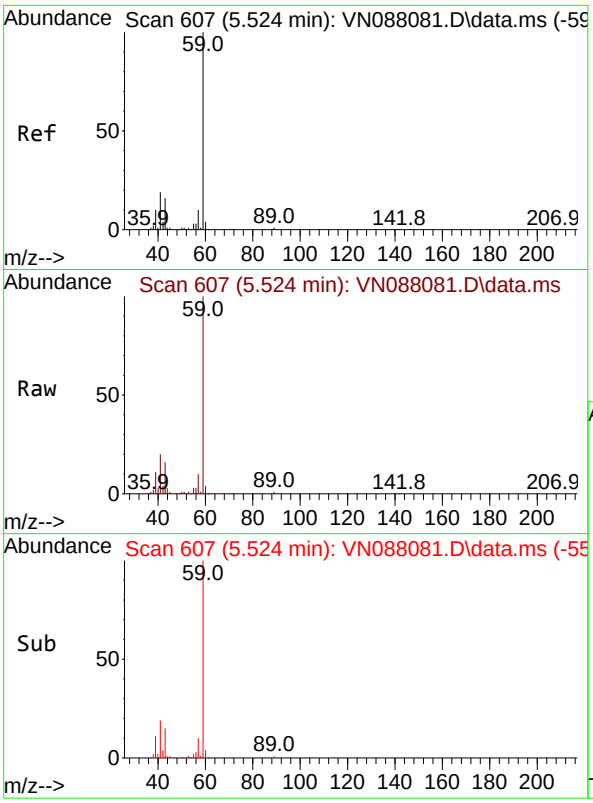


#10
Methyl Iodide
Concen: 39.794 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:142 Resp: 154156

Ion	Ratio	Lower	Upper
142	100		
127	50.7	38.0	57.0
141	13.5	12.0	18.0

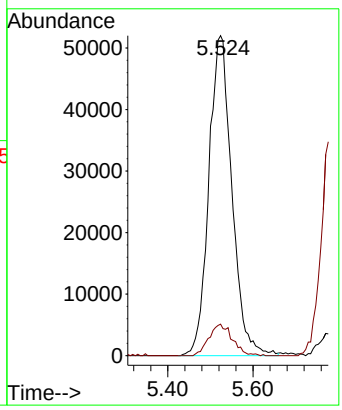




#11
Tert butyl alcohol
Concen: 193.892 ug/l
RT: 5.524 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 59 Resp: 19527

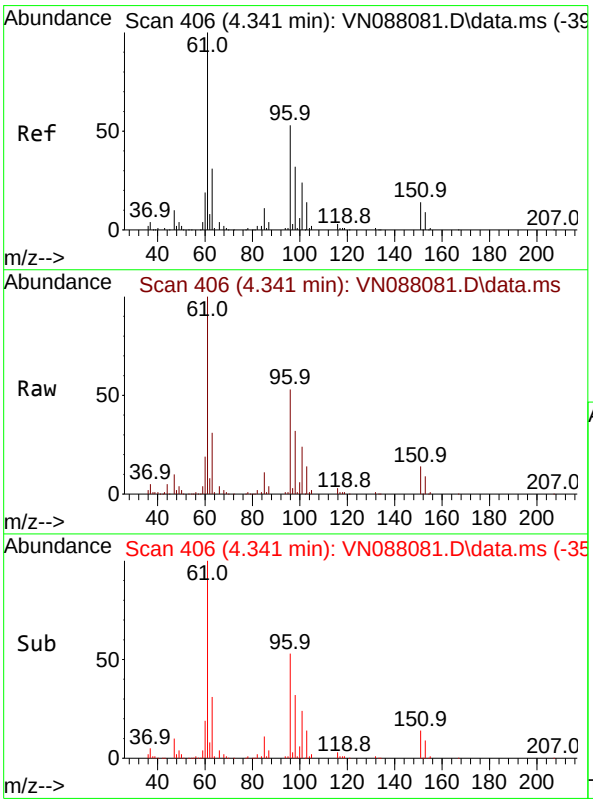
Ion	Ratio	Lower	Upper
59	100		
57	10.0	9.0	13.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

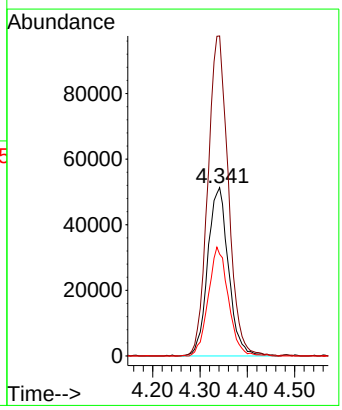
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

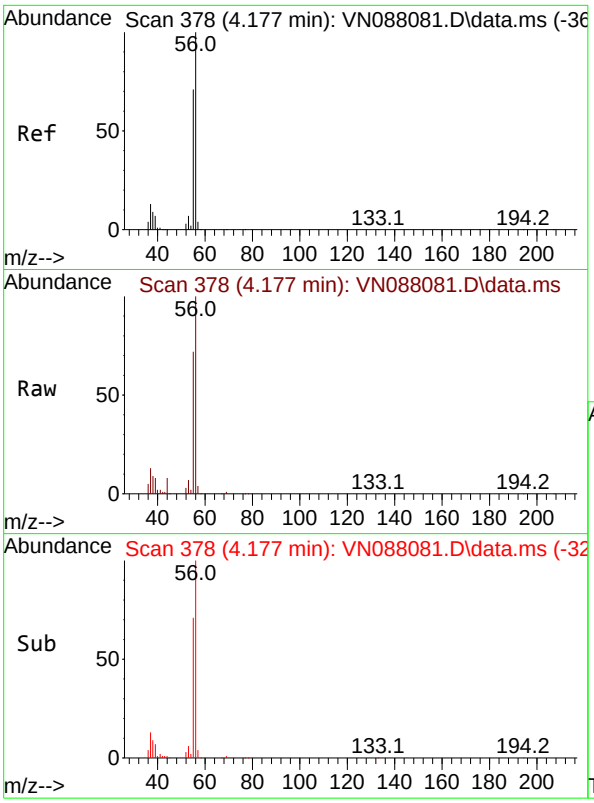


#12
1,1-Dichloroethene
Concen: 36.797 ug/l
RT: 4.341 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 96 Resp: 156355

Ion	Ratio	Lower	Upper
96	100		
61	190.1	143.8	215.8
98	60.5	52.1	78.1

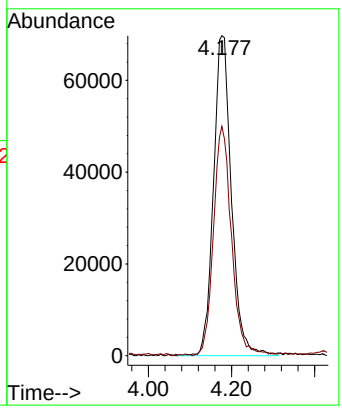




#13
Acrolein
Concen: 184.839 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 56 Resp: 20939

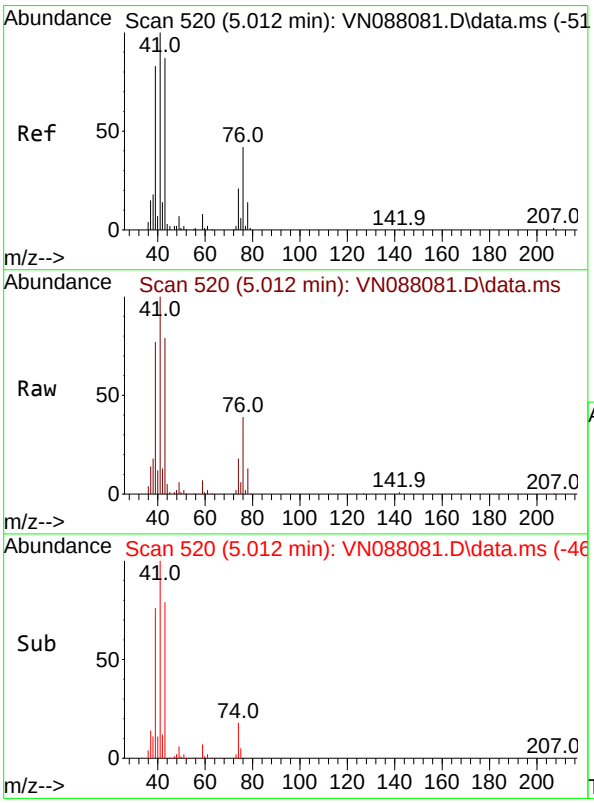
Ion	Ratio	Lower	Upper
56	100		
55	72.0	57.3	85.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

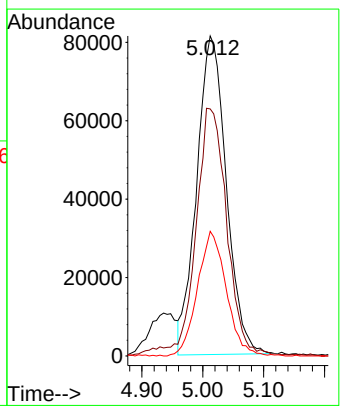
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

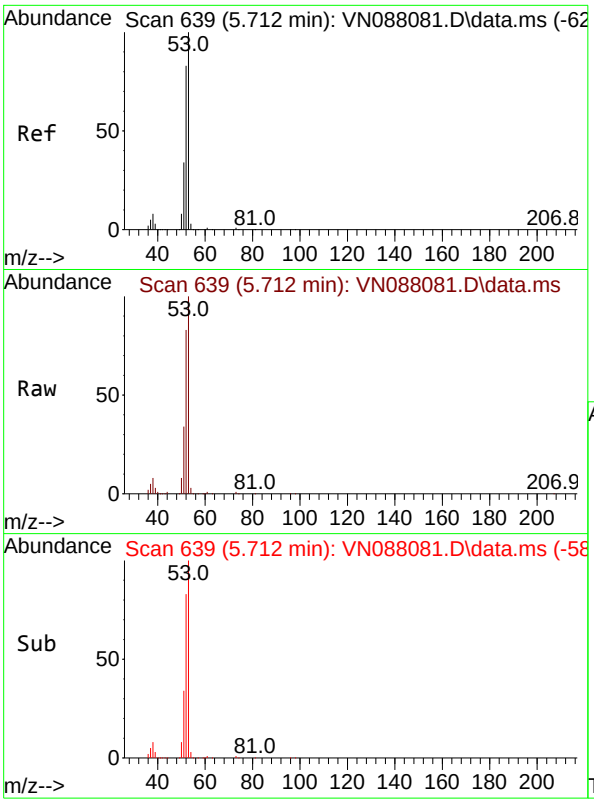


#14
Allyl chloride
Concen: 36.996 ug/l
RT: 5.012 min Scan# 520
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 41 Resp: 274719

Ion	Ratio	Lower	Upper
41	100		
39	82.2	63.9	95.9
76	38.0	28.1	42.1

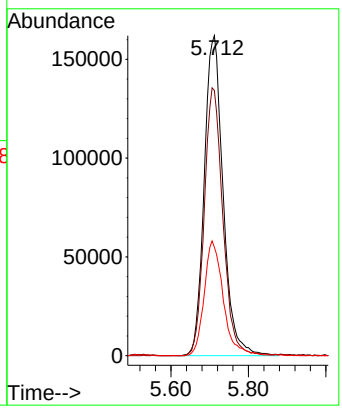




#15
Acrylonitrile
Concen: 199.555 ug/l
RT: 5.712 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 53 Resp: 54745

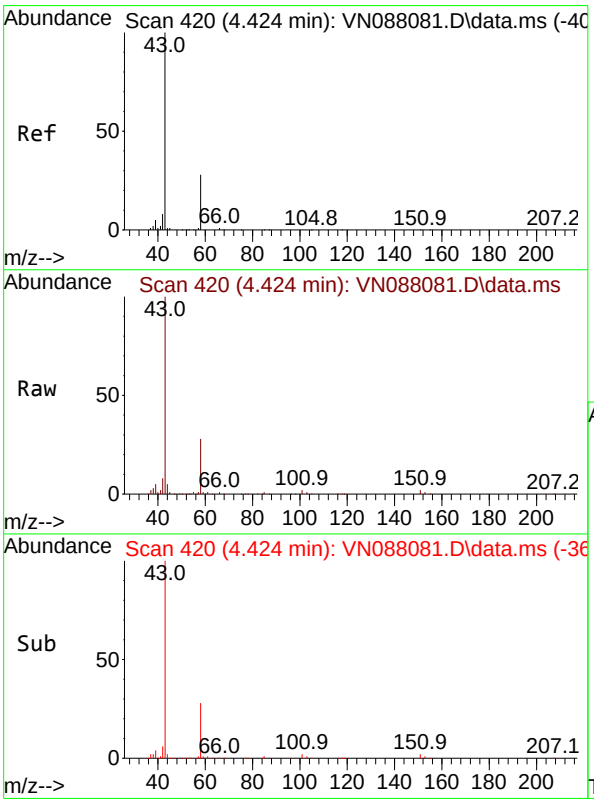
Ion	Ratio	Lower	Upper
53	100		
52	82.4	67.6	101.4
51	36.3	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

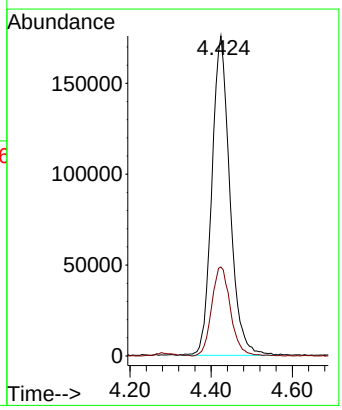
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

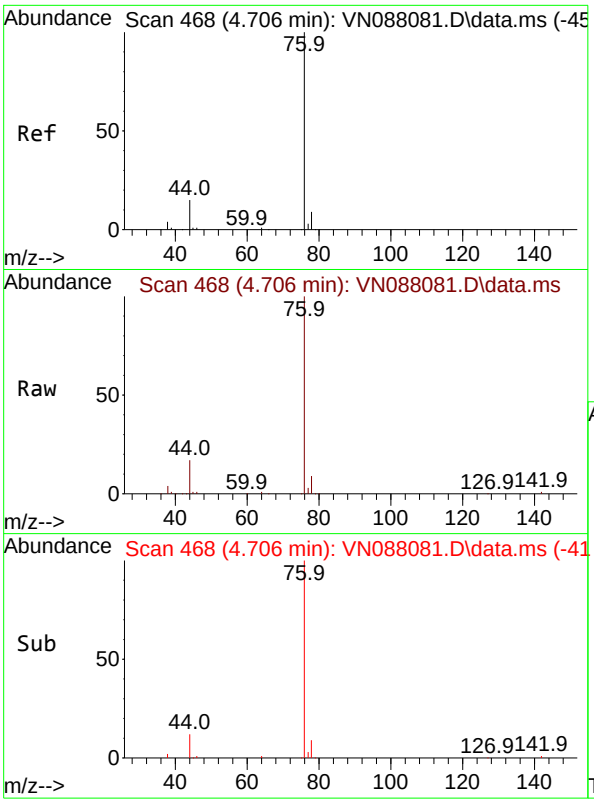


#16
Acetone
Concen: 183.727 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 43 Resp: 539588

Ion	Ratio	Lower	Upper
43	100		
58	27.8	22.6	33.8

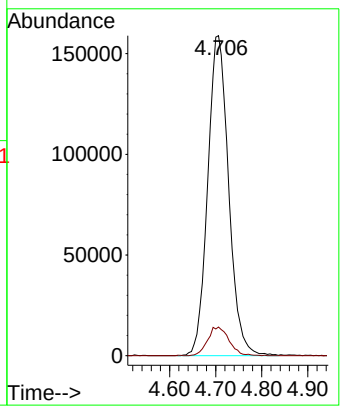




#17
Carbon Disulfide
Concen: 38.818 ug/l
RT: 4.706 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 76 Resp: 50140

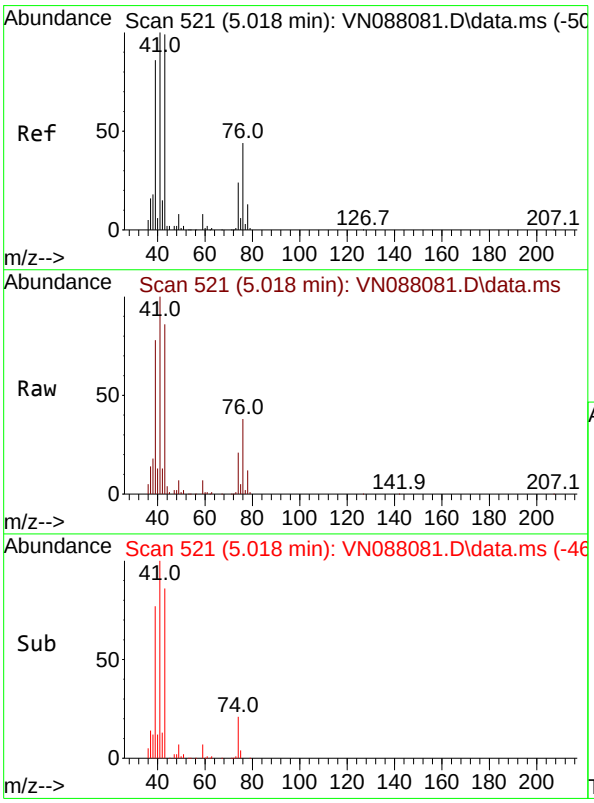
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.6	11.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

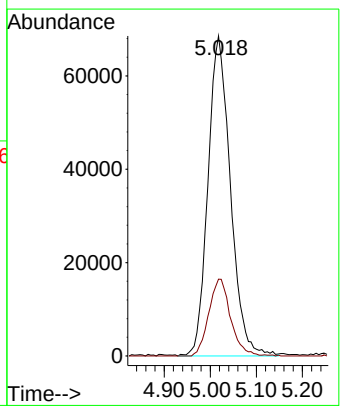
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

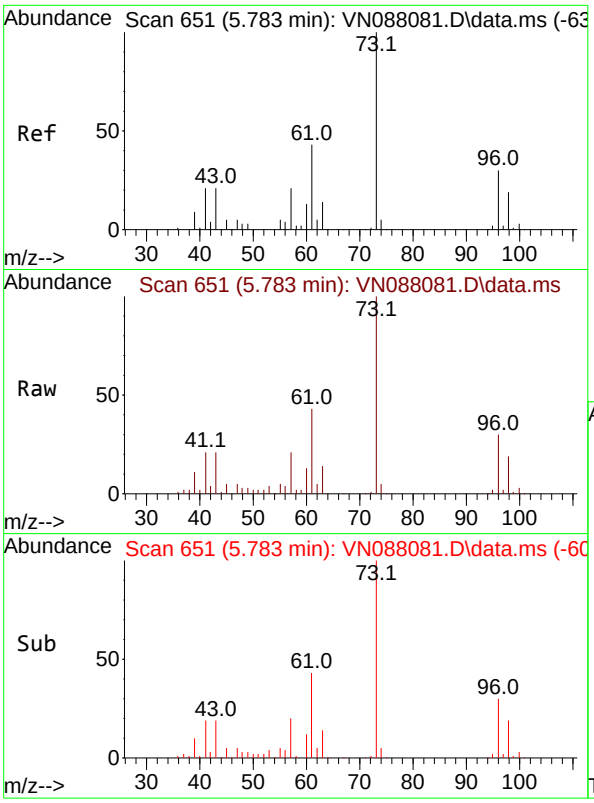


#18
Methyl Acetate
Concen: 38.683 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 43 Resp: 232583

Ion	Ratio	Lower	Upper
43	100		
74	23.2	17.6	26.4

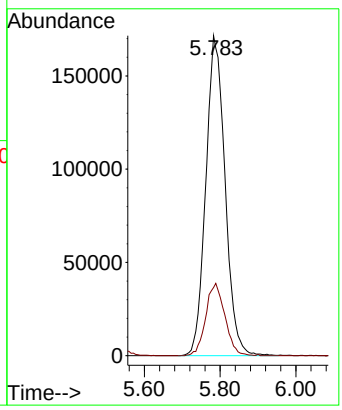




#19
Methyl tert-butyl Ether
Concen: 38.771 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 73 Resp: 60501

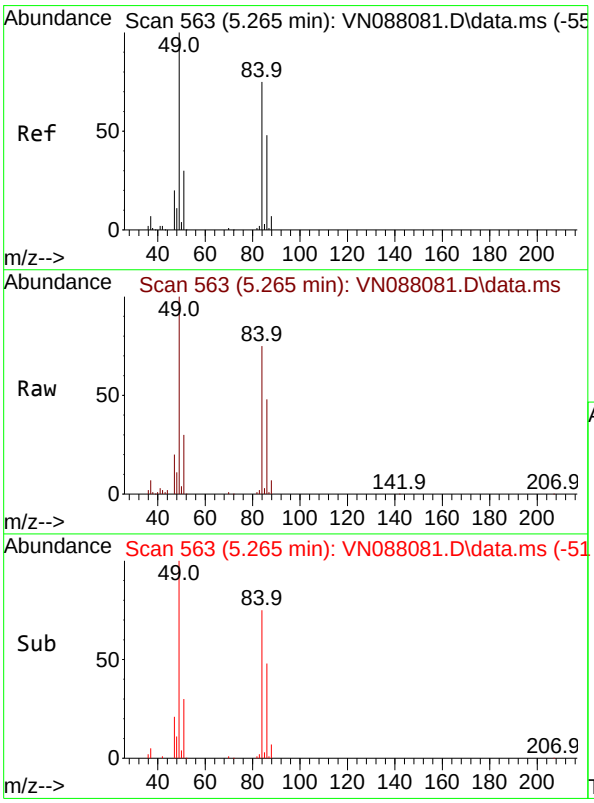
Ion	Ratio	Lower	Upper
73	100		
57	21.3	18.4	27.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

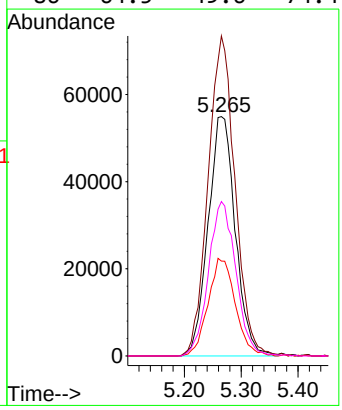
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

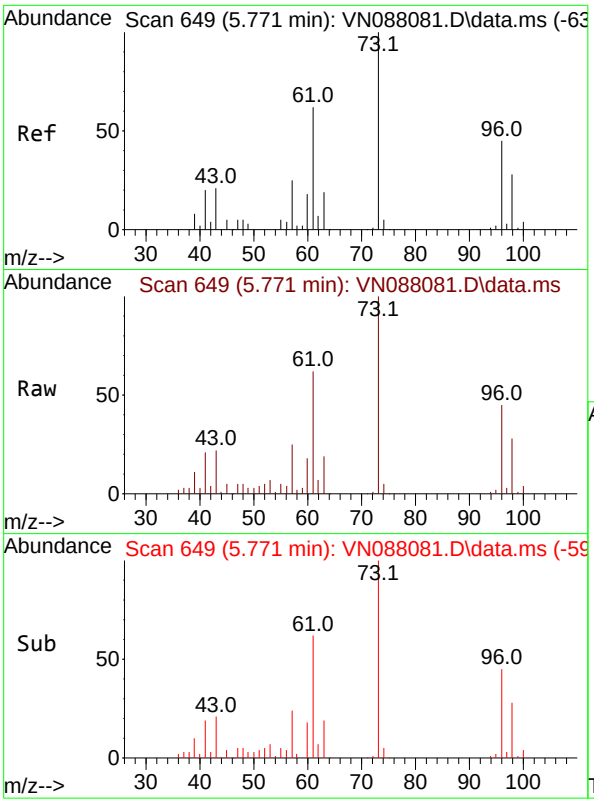


#20
Methylene Chloride
Concen: 40.095 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 84 Resp: 182571

Ion	Ratio	Lower	Upper
84	100		
49	133.7	103.4	155.2
51	39.6	33.8	50.8
86	64.5	49.6	74.4

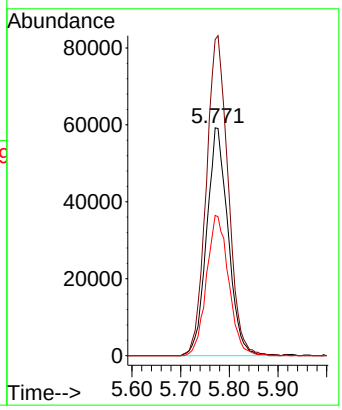




#21
trans-1,2-Dichloroethene
Concen: 38.584 ug/l
RT: 5.771 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 96 Resp: 18128

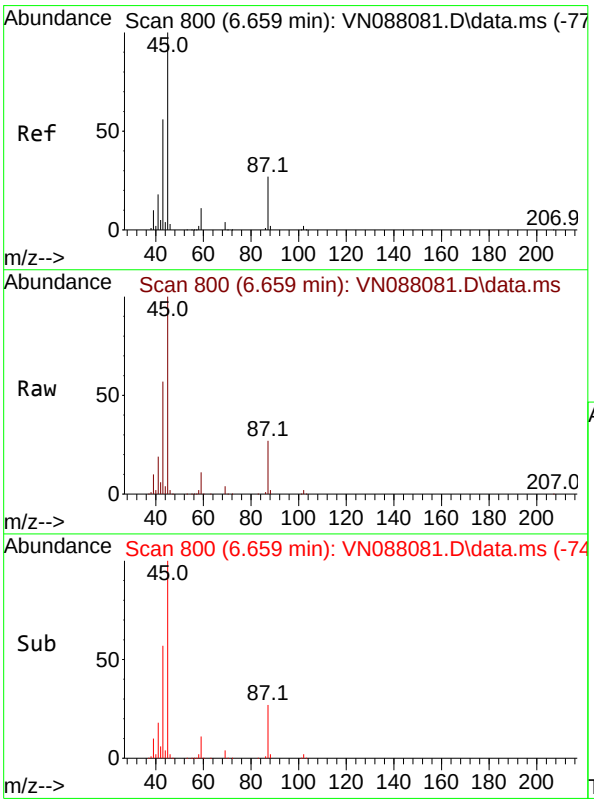
Ion	Ratio	Lower	Upper
96	100		
61	138.7	118.0	177.0
98	61.6	50.0	75.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

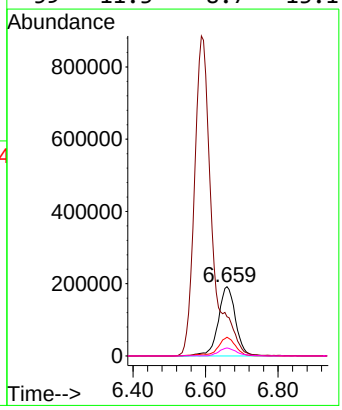
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

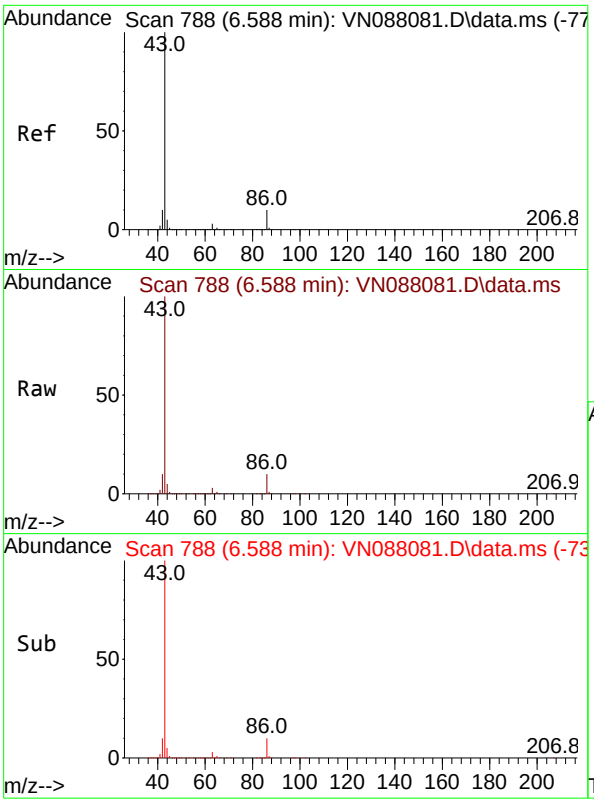


#22
Diisopropyl ether
Concen: 40.632 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 45 Resp: 636418

Ion	Ratio	Lower	Upper
45	100		
43	55.9	47.7	71.5
87	27.0	21.4	32.0
59	11.3	8.7	13.1

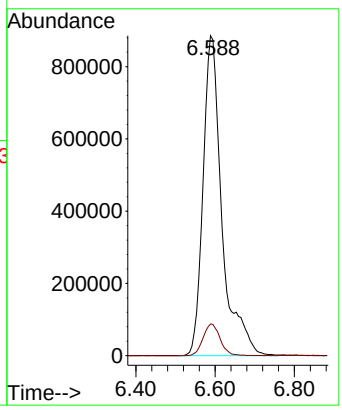




#23
Vinyl Acetate
Concen: 208.046 ug/l
RT: 6.588 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 43 Resp: 293532

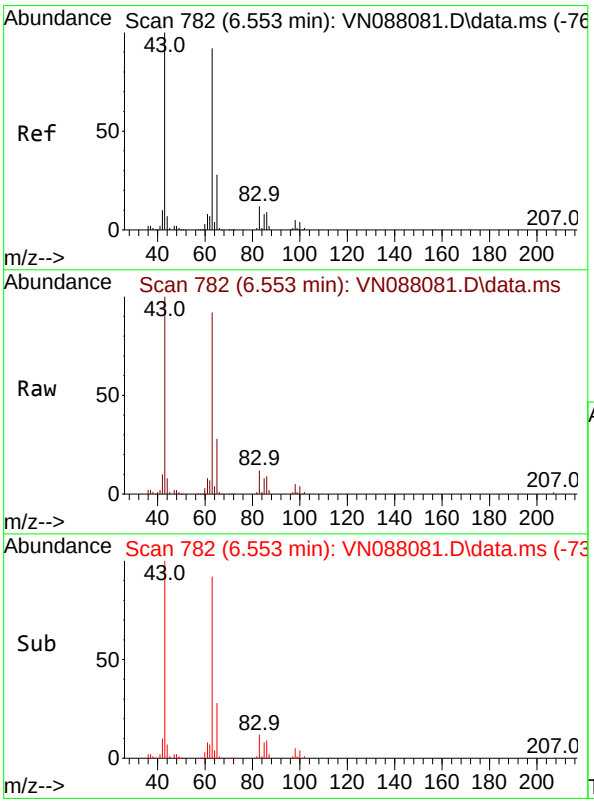
Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

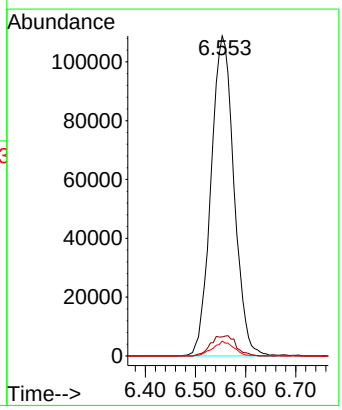
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

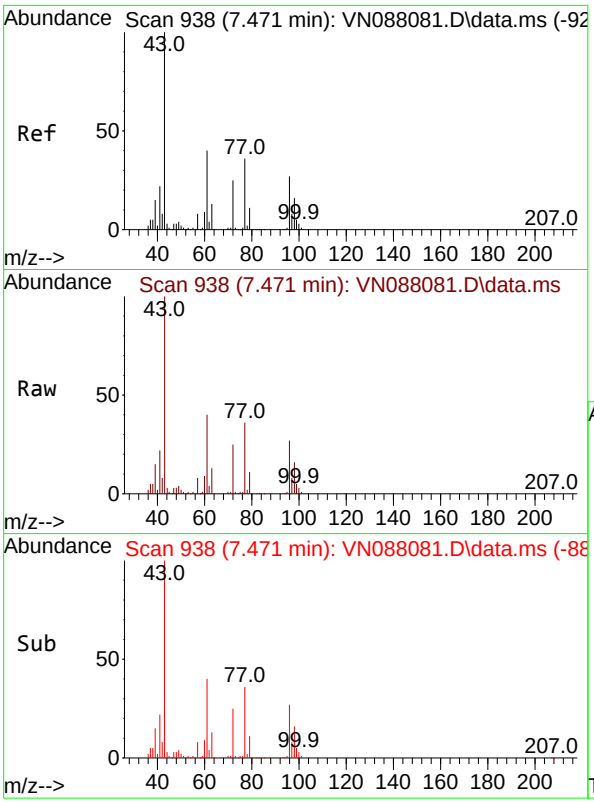


#24
1,1-Dichloroethane
Concen: 39.970 ug/l
RT: 6.553 min Scan# 782
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 63 Resp: 346792

Ion	Ratio	Lower	Upper
63	100		
98	6.0	3.8	11.4
100	4.7	2.0	6.0

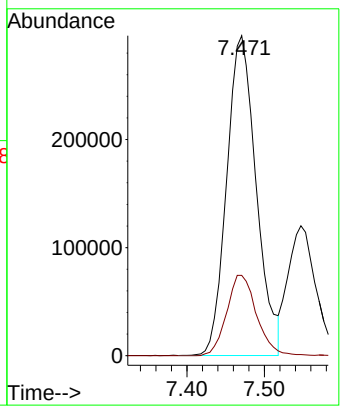




#25
2-Butanone
Concen: 205.282 ug/l
RT: 7.471 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 43 Resp: 78635

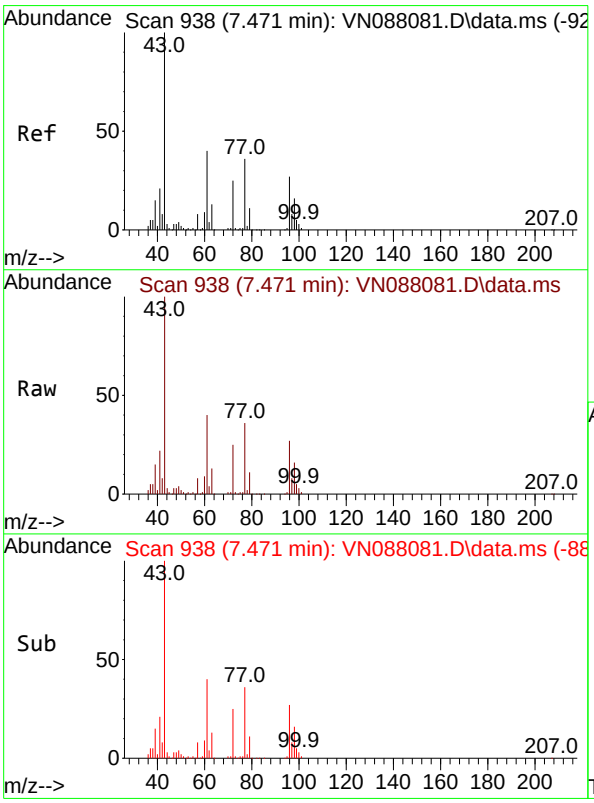
Ion	Ratio	Lower	Upper
43	100		
72	25.1	19.9	29.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

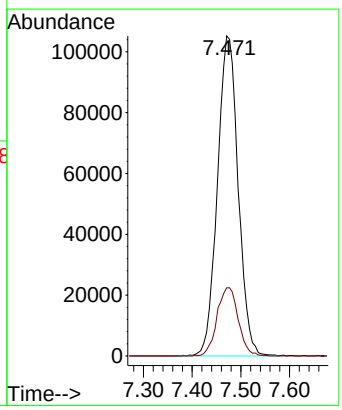
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

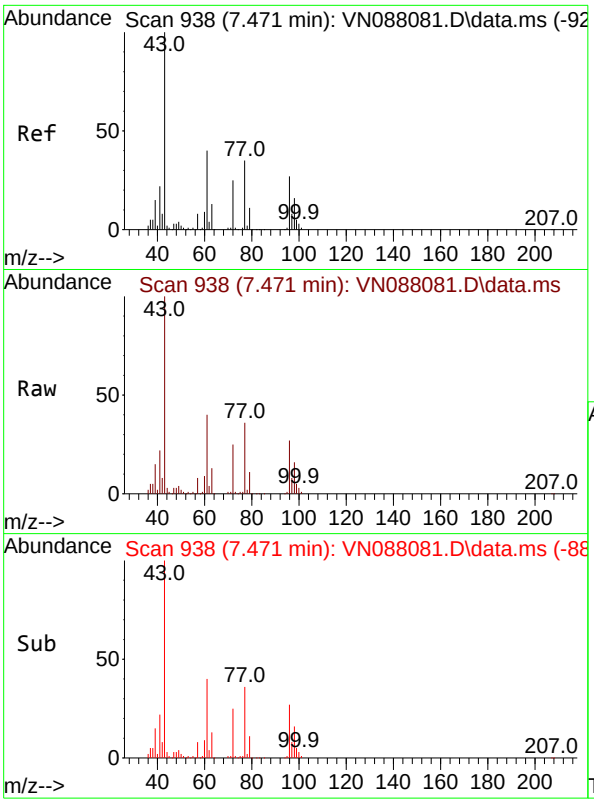


#26
2,2-Dichloropropane
Concen: 39.466 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 77 Resp: 311175

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.9	32.7

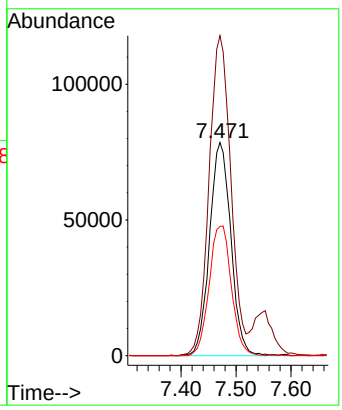




#27
cis-1,2-Dichloroethene
Concen: 39.442 ug/l
RT: 7.471 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 96 Resp: 21177

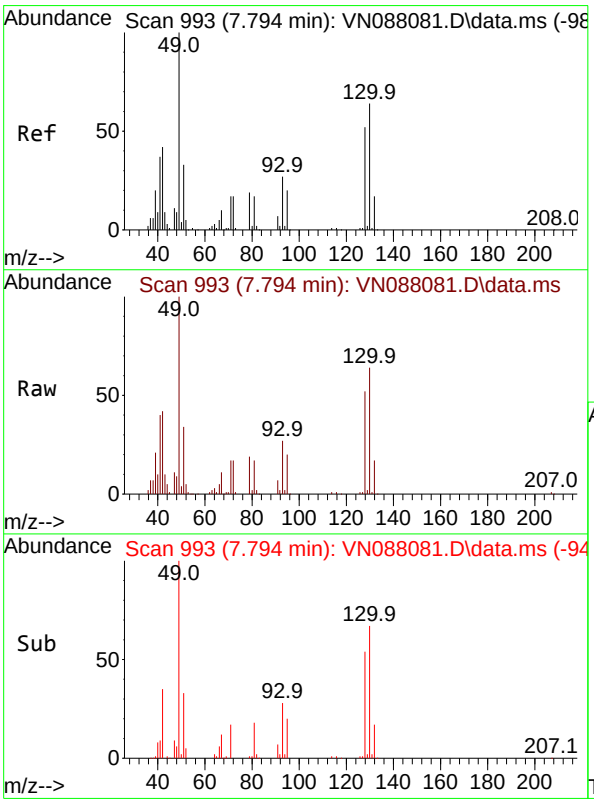
Ion	Ratio	Lower	Upper
96	100		
61	152.3	0.0	301.8
98	63.2	0.0	126.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
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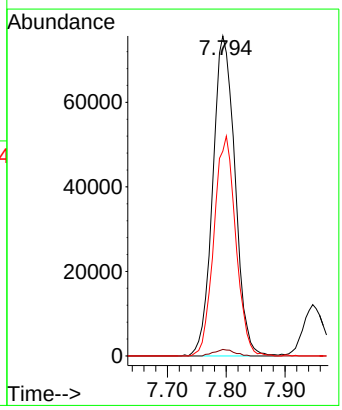
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

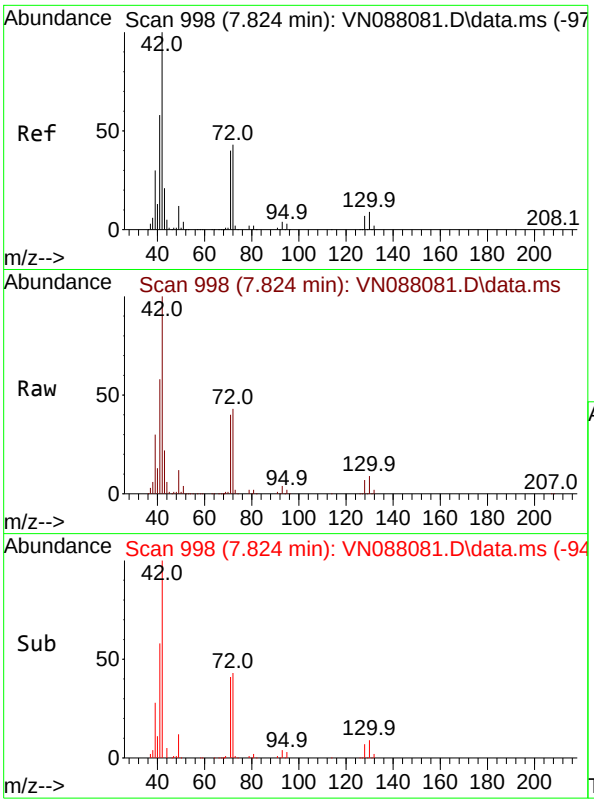


#28
Bromochloromethane
Concen: 48.569 ug/l
RT: 7.794 min Scan# 993
Delta R.T. -0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 49 Resp: 199116

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.0
130	67.3	53.1	79.7

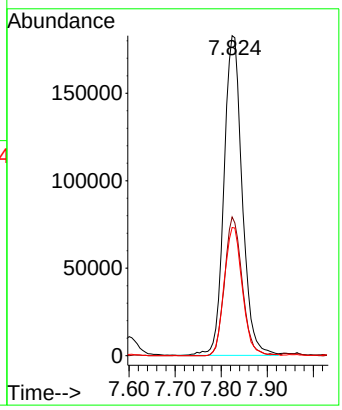




#29
Tetrahydrofuran
Concen: 198.682 ug/l
RT: 7.824 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 42 Resp: 50114

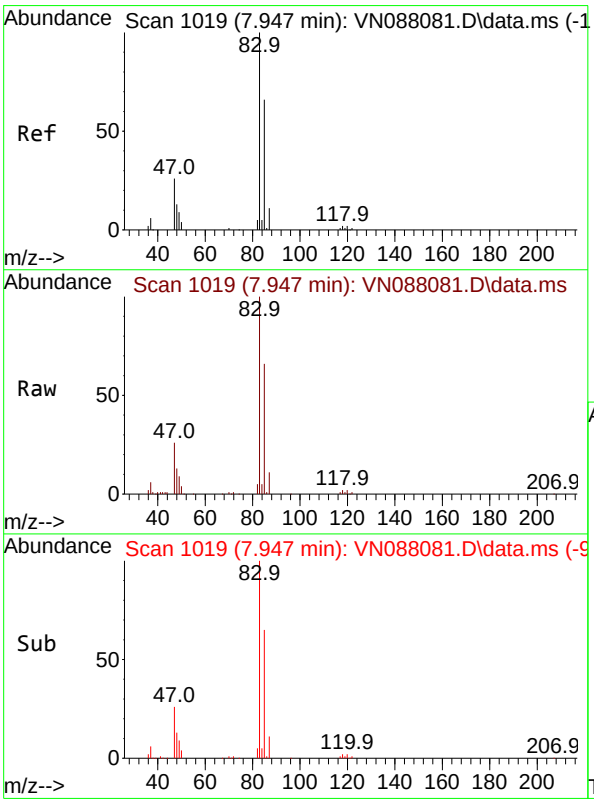
Ion	Ratio	Lower	Upper
42	100		
72	42.0	33.7	50.5
71	40.0	31.9	47.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

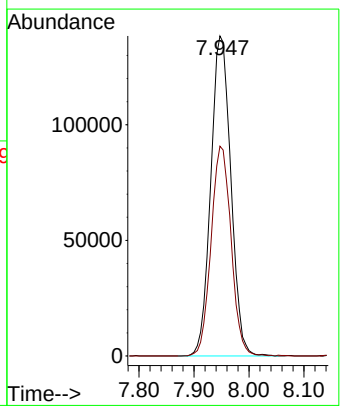
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

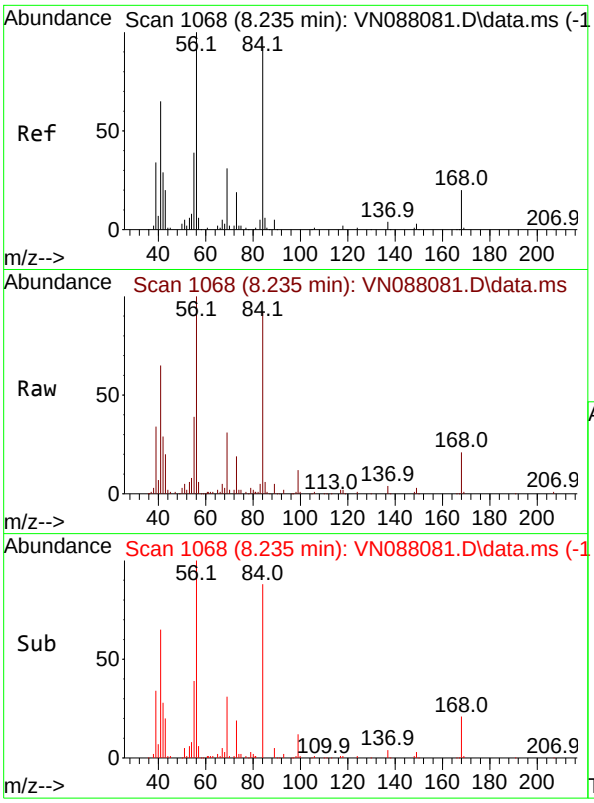


#30
Chloroform
Concen: 40.574 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 83 Resp: 351684

Ion	Ratio	Lower	Upper
83	100		
85	65.6	50.7	76.1

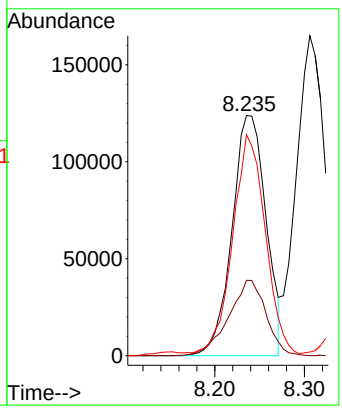




#31
Cyclohexane
Concen: 39.886 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 56 Resp: 32638

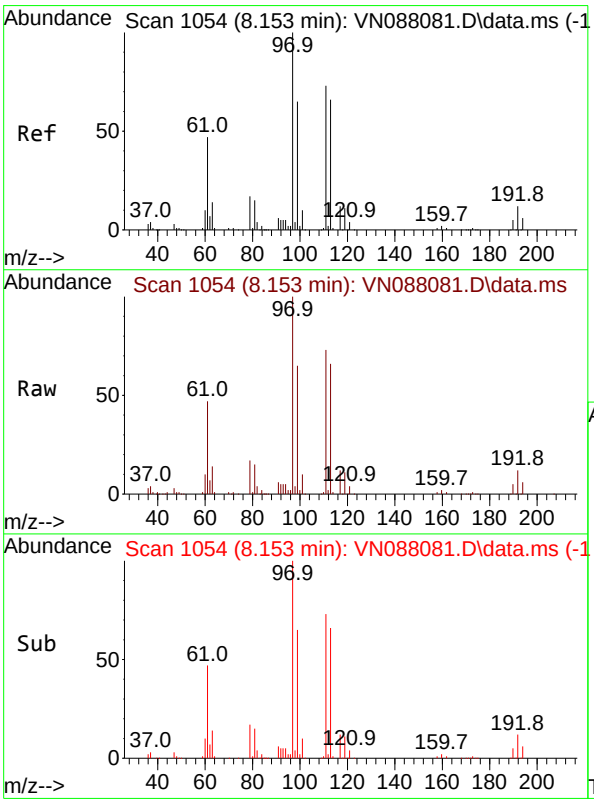
Ion	Ratio	Lower	Upper
56	100		
69	31.3	23.7	35.5
84	90.9	64.7	97.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

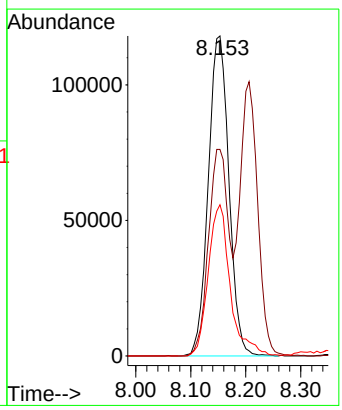
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

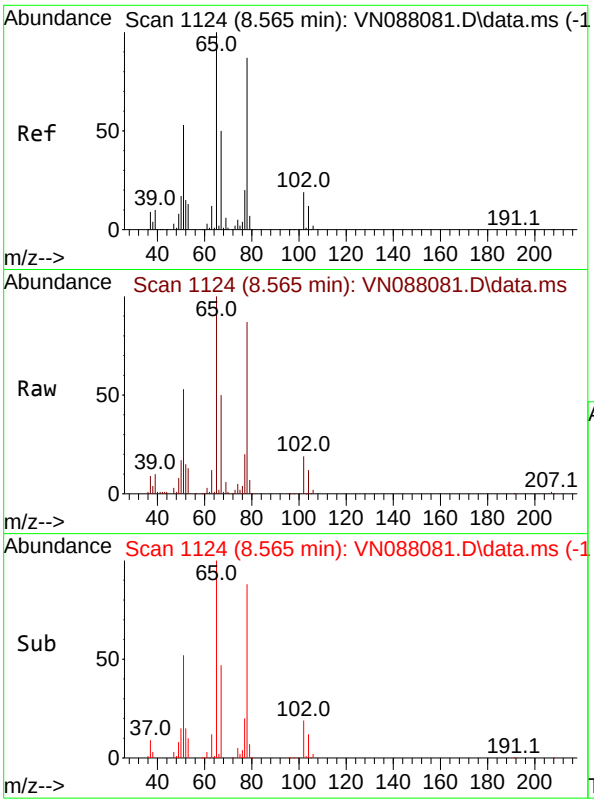


#32
1,1,1-Trichloroethane
Concen: 39.919 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 97 Resp: 308171

Ion	Ratio	Lower	Upper
97	100		
99	63.5	52.2	78.2
61	50.4	41.2	61.8

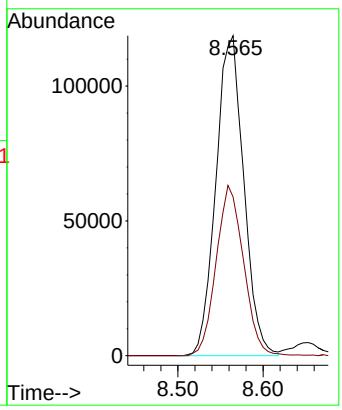




#33
1,2-Dichloroethane-d4
Concen: 46.232 ug/l
RT: 8.565 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 65 Resp: 27027

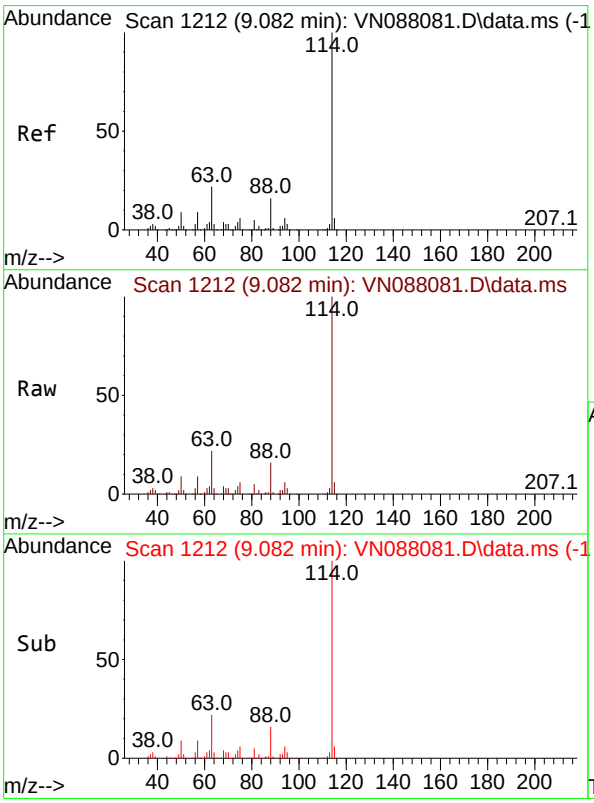
Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	100.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

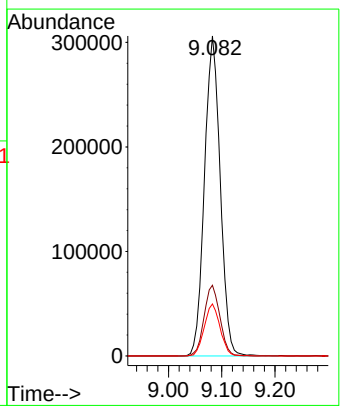
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

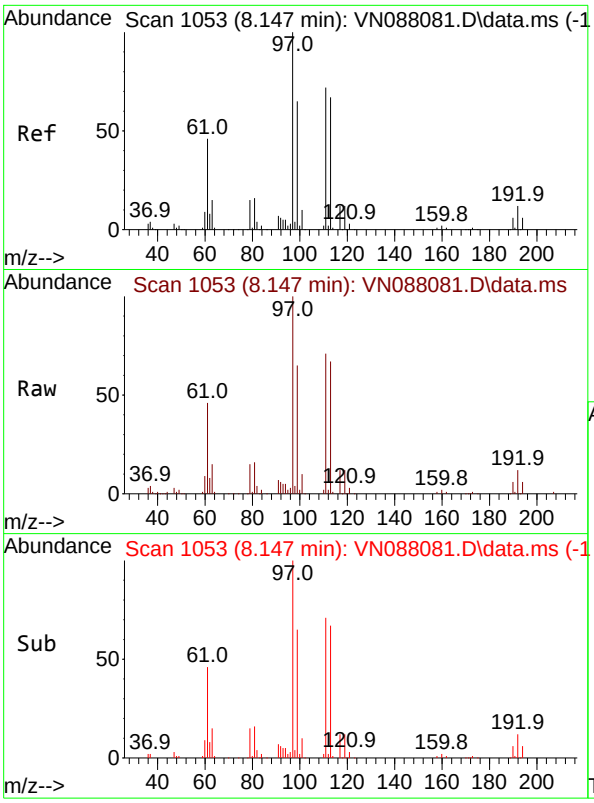


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:114 Resp: 628399

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	45.2
88	16.2	0.0	33.4

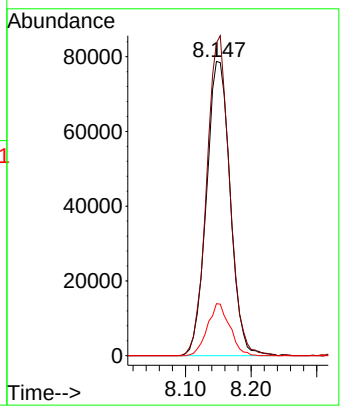




#35
Dibromofluoromethane
Concen: 46.902 ug/l
RT: 8.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:113 Resp: 19800

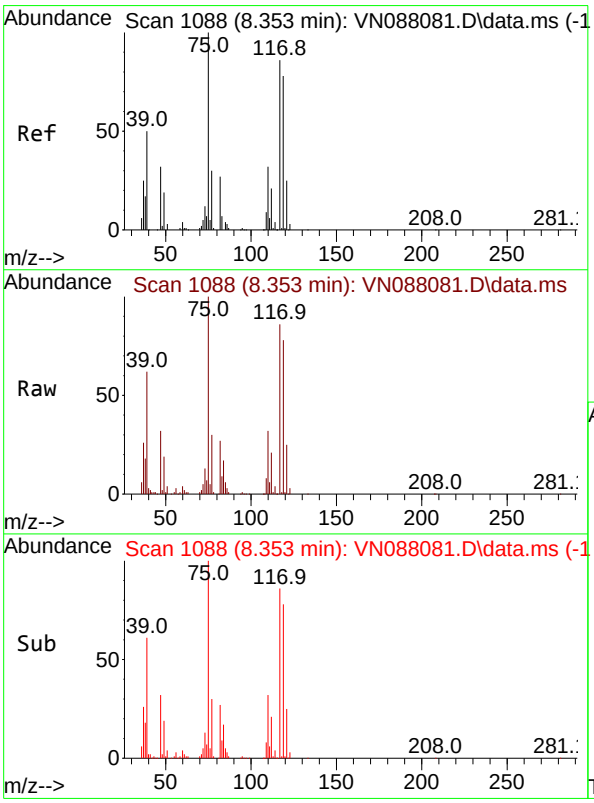
Ion	Ratio	Lower	Upper
113	100		
111	105.0	82.8	124.2
192	16.6	12.8	19.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

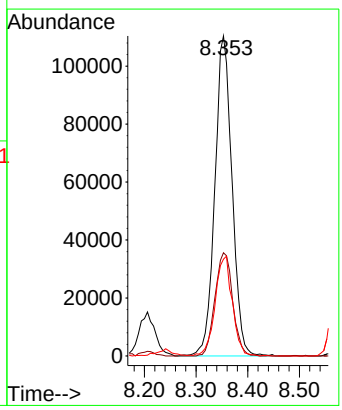
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

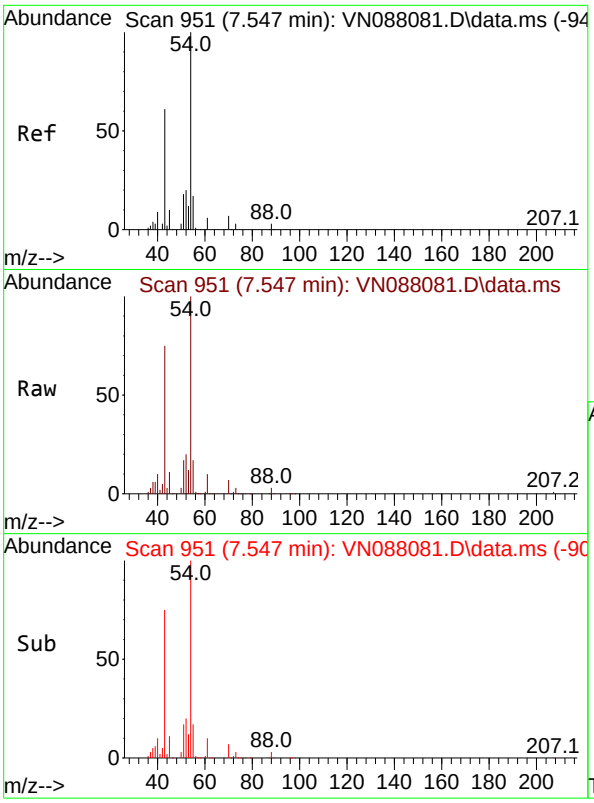


#36
1,1-Dichloropropene
Concen: 41.351 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 75 Resp: 254886

Ion	Ratio	Lower	Upper
75	100		
110	33.3	15.9	47.6
77	31.1	24.4	36.6





#37
Ethyl Acetate
Concen: 38.973 ug/l
RT: 7.547 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

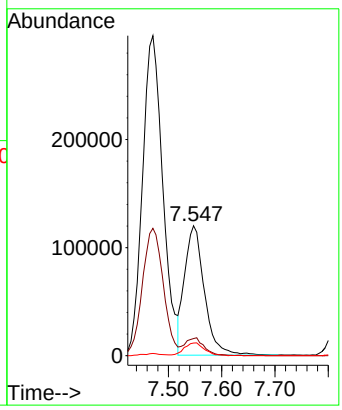
Tgt Ion: 43 Resp: 30871

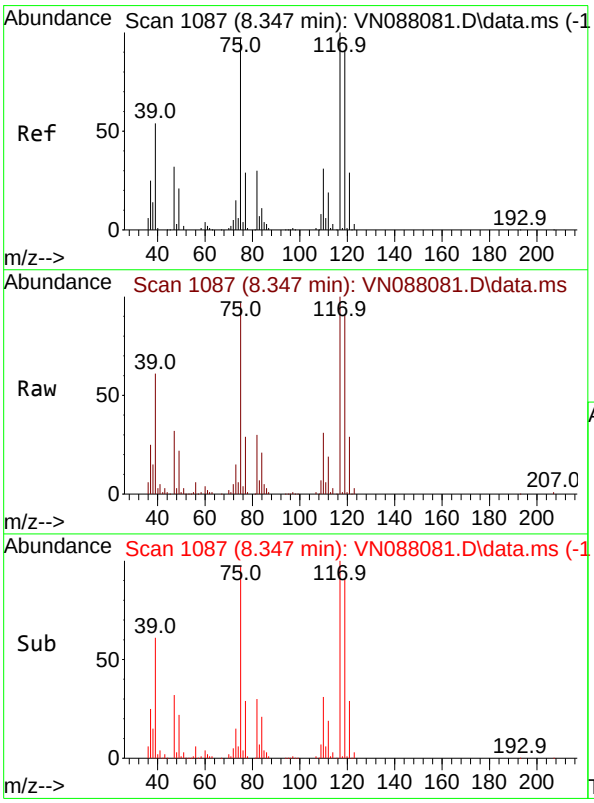
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.3	13.9
70	10.2	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

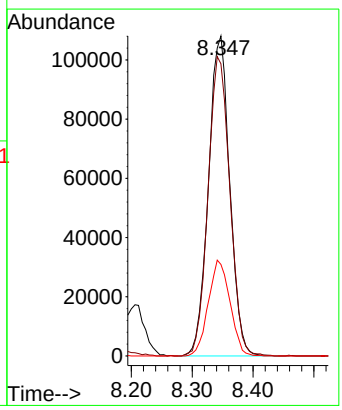


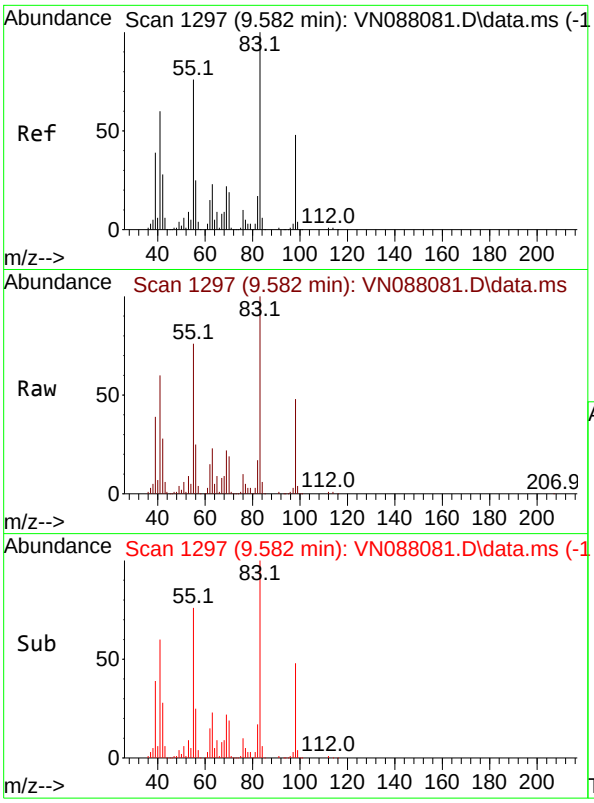


#38
Carbon Tetrachloride
Concen: 41.178 ug/l
RT: 8.347 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:117 Resp: 262154

Ion	Ratio	Lower	Upper
117	100		
119	91.3	79.0	118.6
121	28.6	25.0	37.6





#39
Methylcyclohexane
Concen: 41.530 ug/l
RT: 9.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

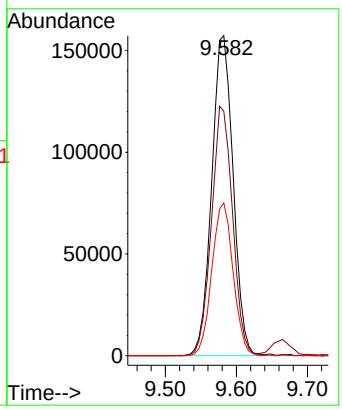
Tgt Ion: 83 Resp: 32904

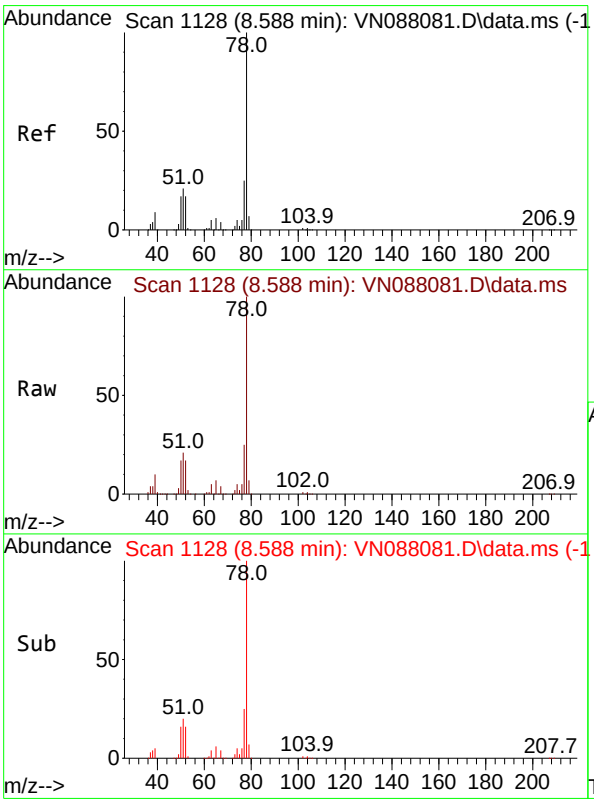
Ion	Ratio	Lower	Upper
83	100		
55	76.3	64.6	96.8
98	47.7	38.4	57.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

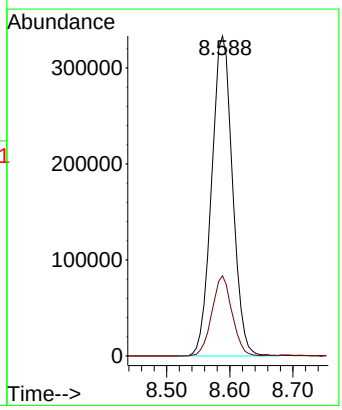


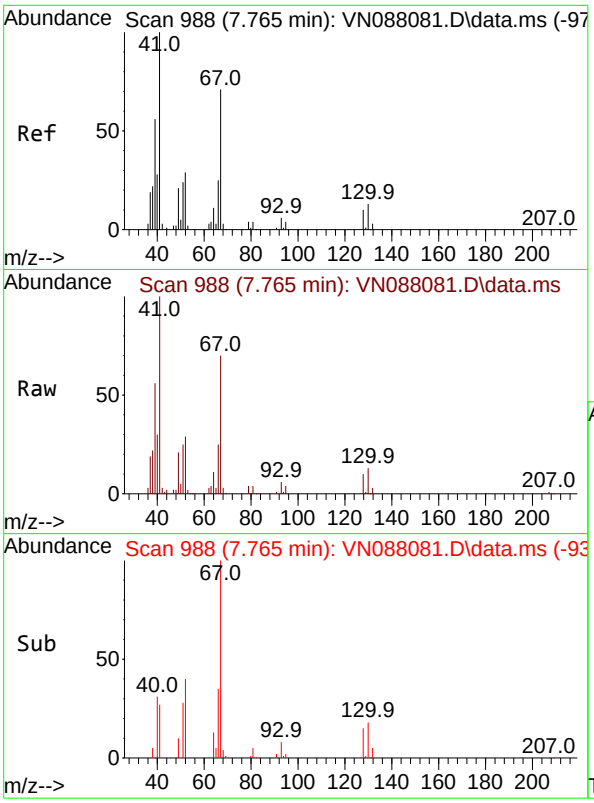


#40
Benzene
Concen: 40.717 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 78 Resp: 764344

Ion	Ratio	Lower	Upper
78	100		
77	25.1	19.7	29.5

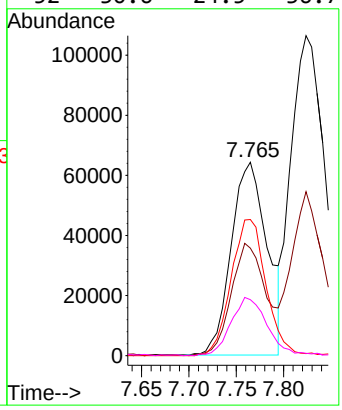




#41
Methacrylonitrile
Concen: 40.604 ug/l
RT: 7.765 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 41 Resp: 16999

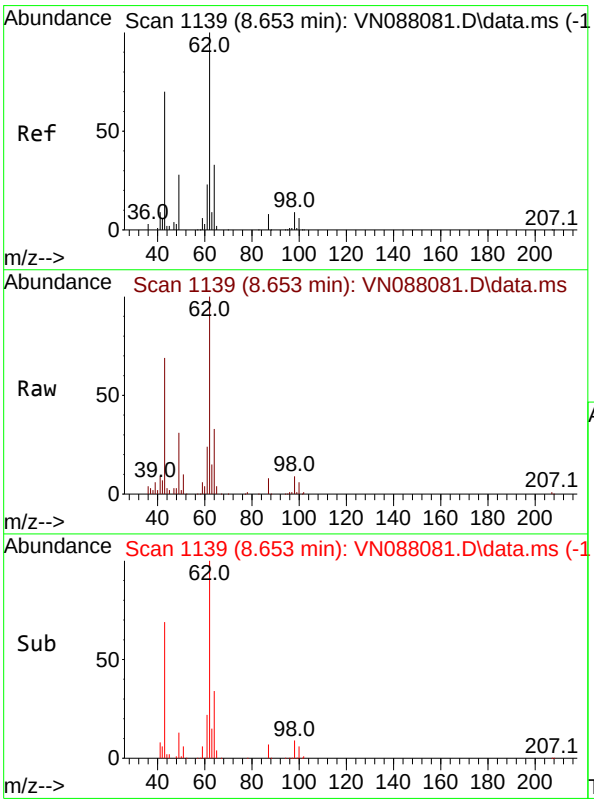
Ion	Ratio	Lower	Upper
41	100		
39	56.5	45.4	68.0
67	68.7	55.3	82.9
52	30.6	24.5	36.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

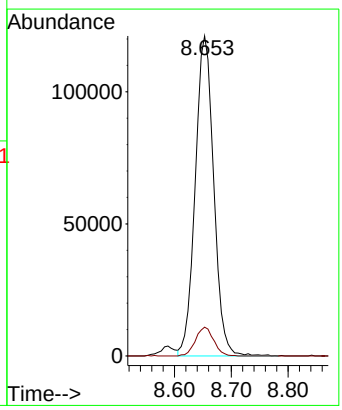
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

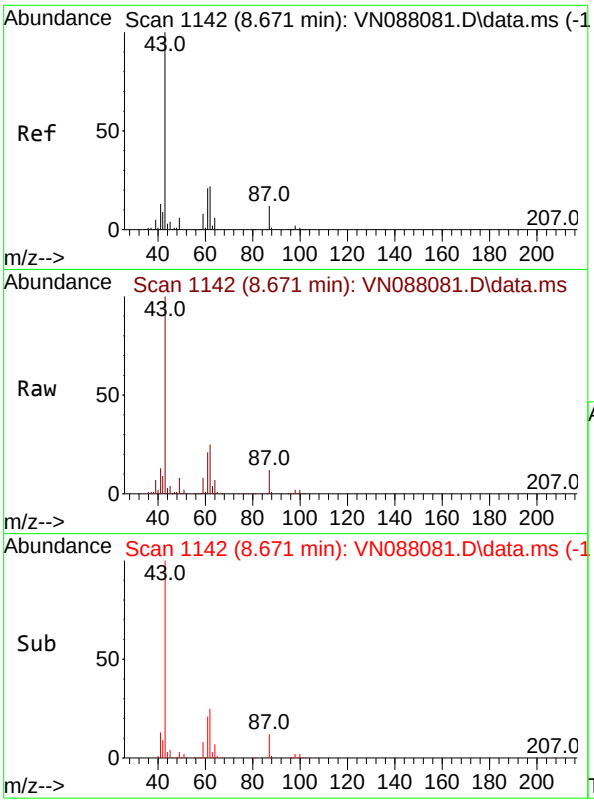


#42
1,2-Dichloroethane
Concen: 41.094 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 62 Resp: 274103

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	17.4

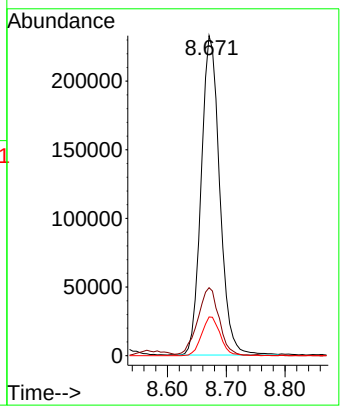




#43
Isopropyl Acetate
Concen: 41.668 ug/l
RT: 8.671 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 43 Resp: 50930

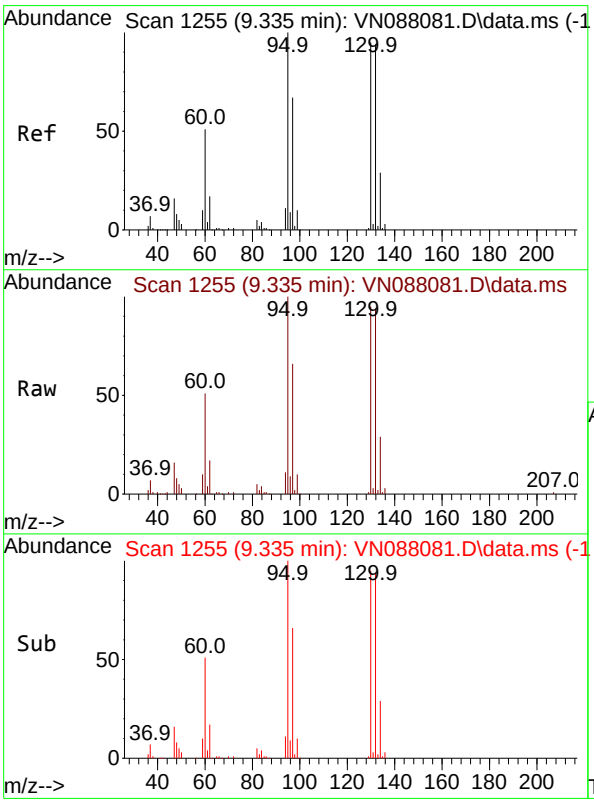
Ion	Ratio	Lower	Upper
43	100		
61	24.3	18.8	28.2
87	12.2	9.6	14.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

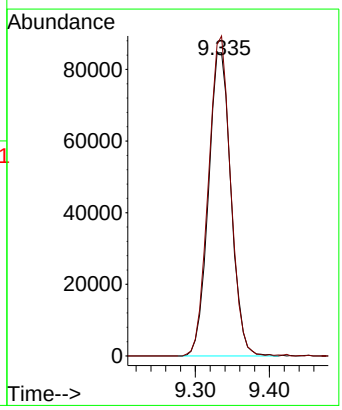
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

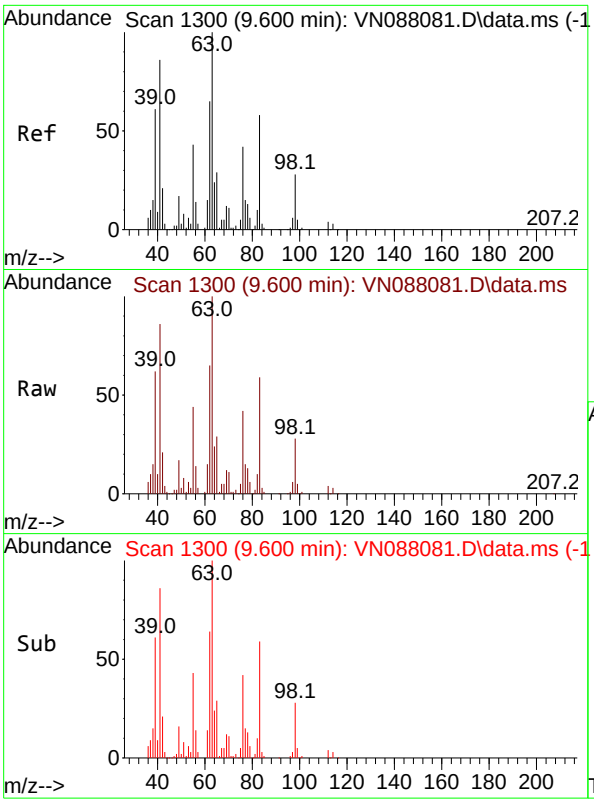


#44
Trichloroethene
Concen: 40.667 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:130 Resp: 178438

Ion	Ratio	Lower	Upper
130	100		
95	105.5	0.0	212.0

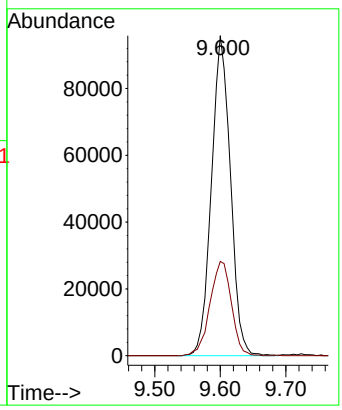




#45
1,2-Dichloropropane
Concen: 40.637 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 63 Resp: 19258

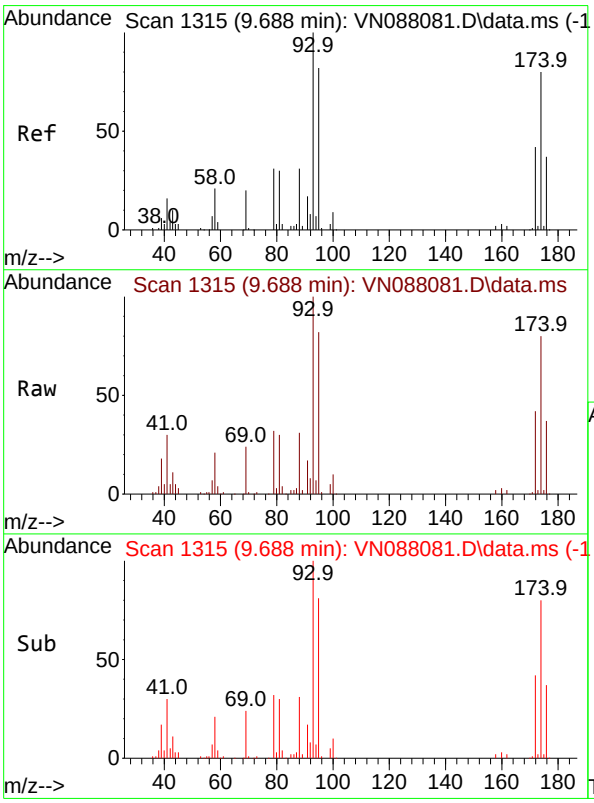
Ion	Ratio	Lower	Upper
63	100		
65	29.4	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

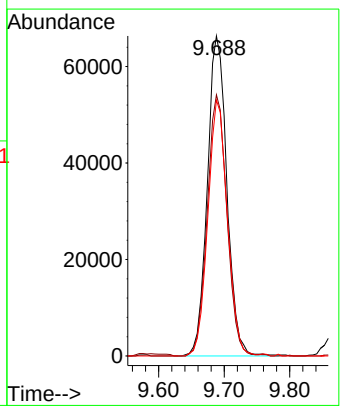
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

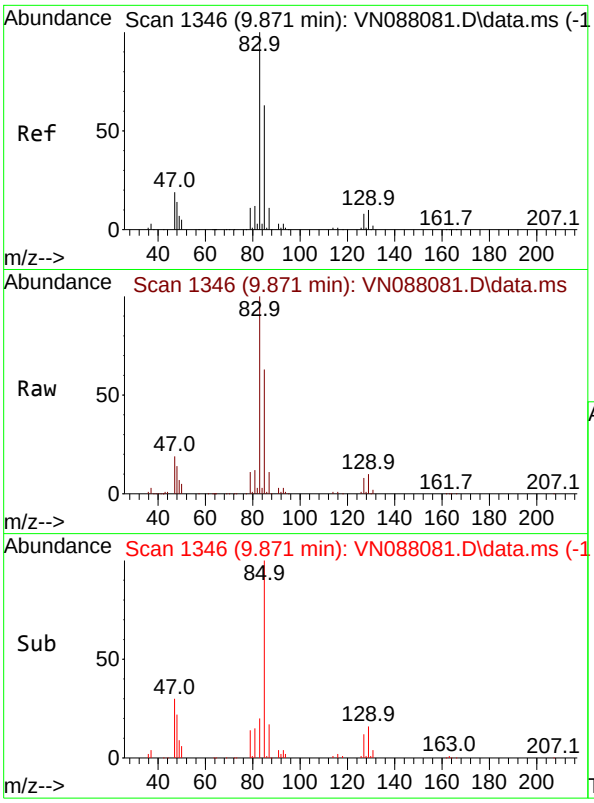


#46
Dibromomethane
Concen: 40.600 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 93 Resp: 137229

Ion	Ratio	Lower	Upper
93	100		
95	82.5	66.2	99.4
174	80.1	63.4	95.2

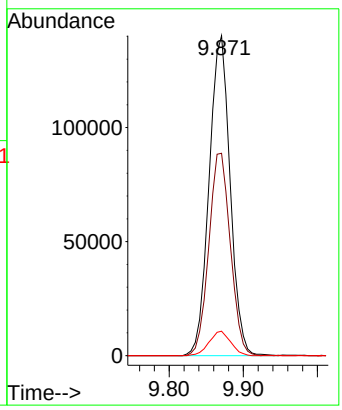




#47
Bromodichloromethane
Concen: 40.745 ug/l
RT: 9.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 83 Resp: 27573

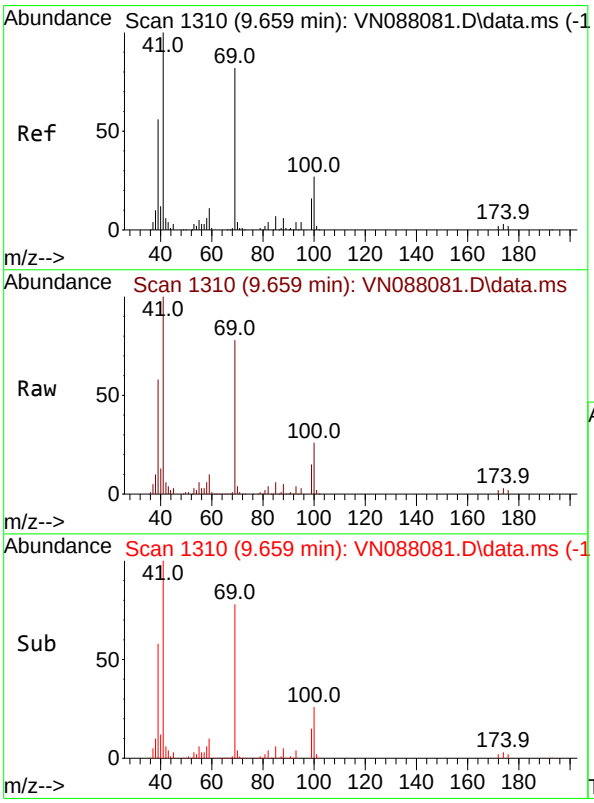
Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.5	78.7
127	7.7	5.8	8.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
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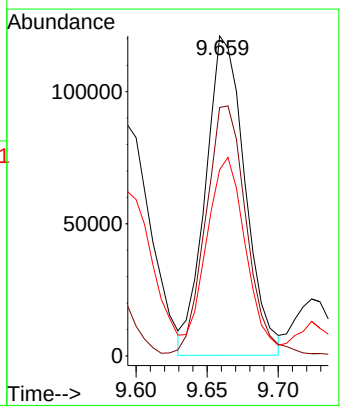
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

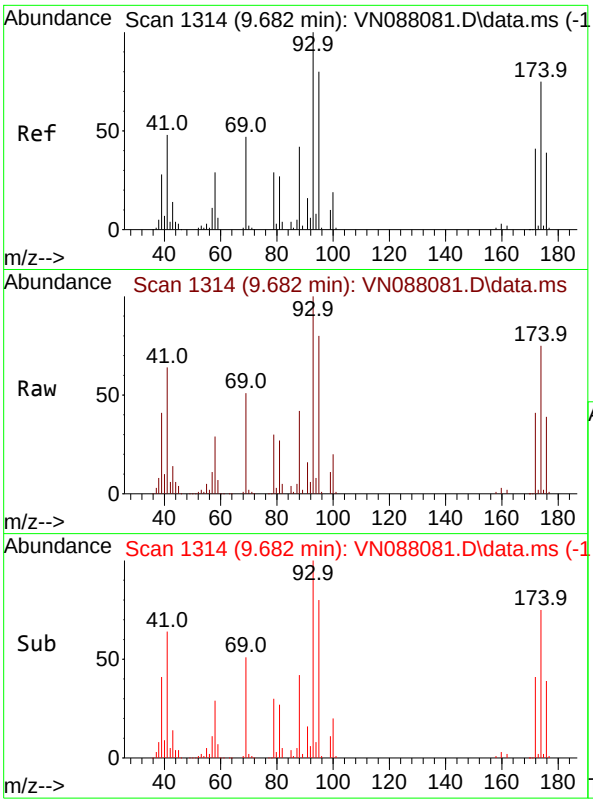


#48
Methyl methacrylate
Concen: 40.288 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 41 Resp: 233909

Ion	Ratio	Lower	Upper
41	100		
69	80.9	62.7	94.1
39	62.4	52.9	79.3

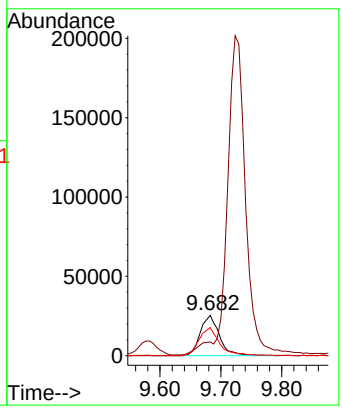




#49
1,4-Dioxane
Concen: 787.940 ug/l
RT: 9.682 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 88 Resp: 5530

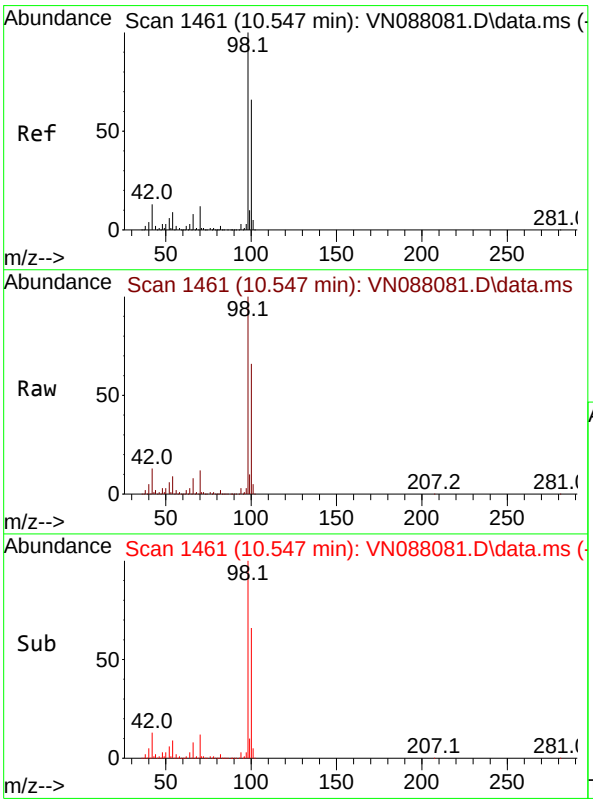
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	74.8	57.9	86.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

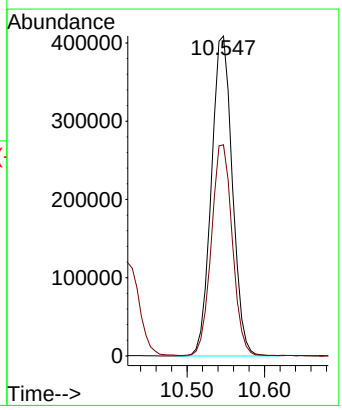
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

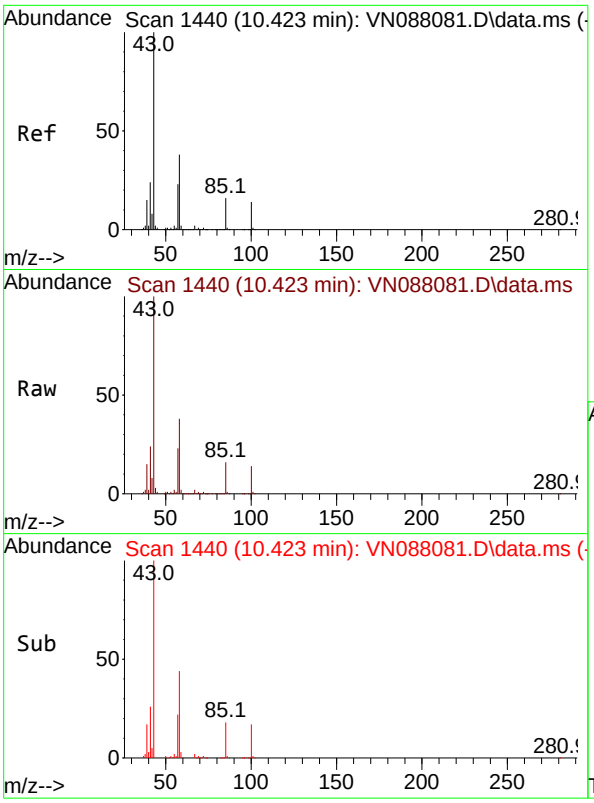


#50
Toluene-d8
Concen: 47.265 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 98 Resp: 768846

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.8	79.2

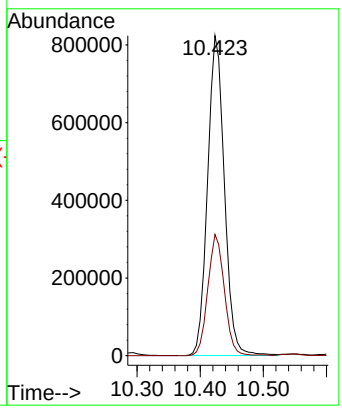




#51
4-Methyl-2-Pentanone
Concen: 210.814 ug/l
RT: 10.423 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 43 Resp: 152440

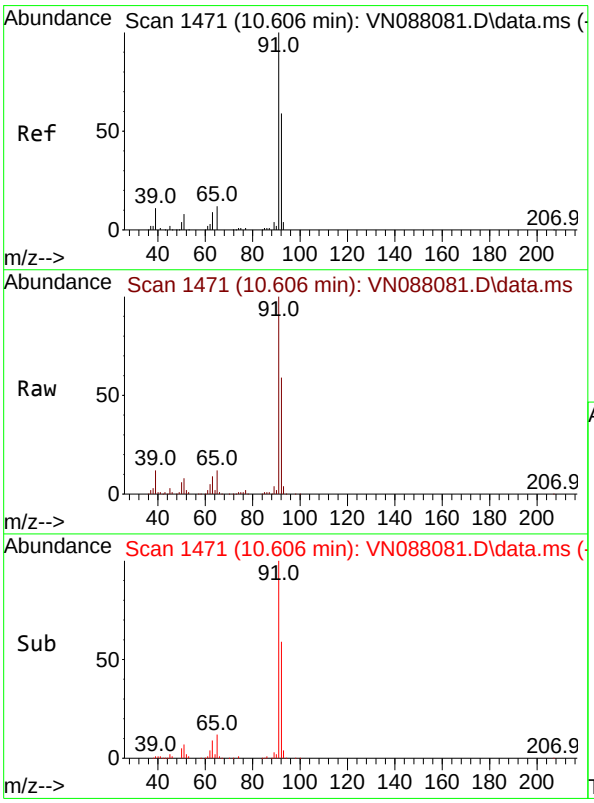
Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.6	44.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

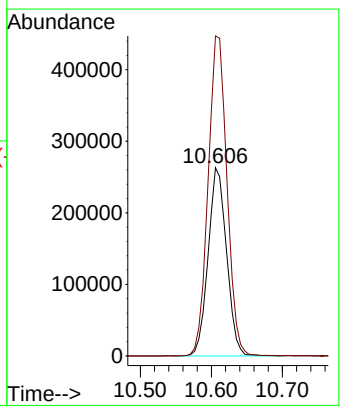
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

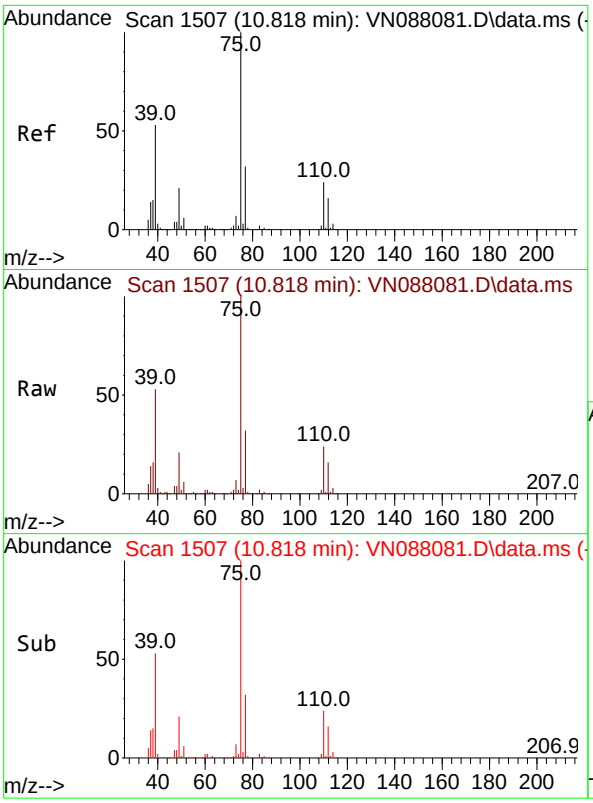


#52
Toluene
Concen: 40.995 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 92 Resp: 474479

Ion	Ratio	Lower	Upper
92	100		
91	174.2	140.4	210.6

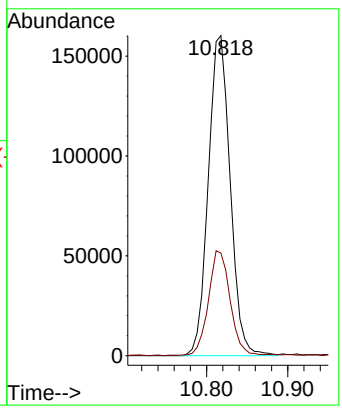




#53
t-1,3-Dichloropropene
Concen: 41.776 ug/l
RT: 10.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 75 Resp: 30089

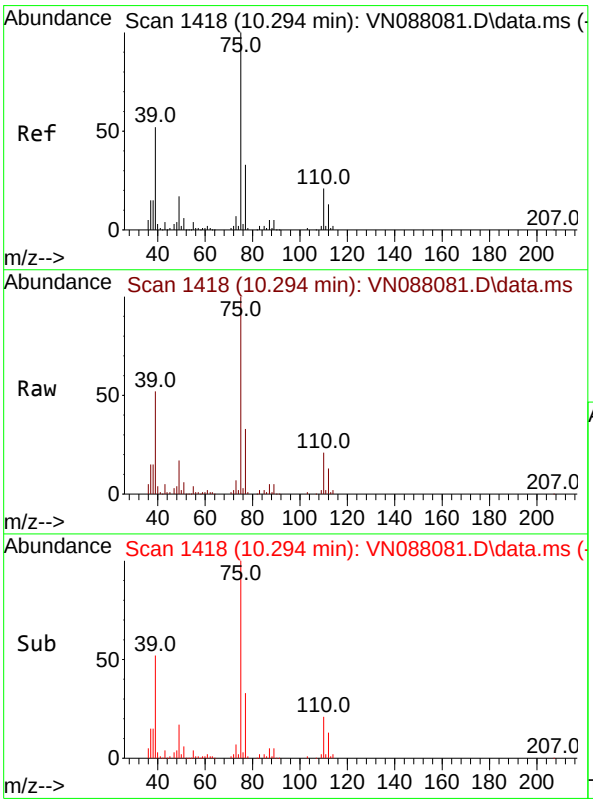
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.2	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

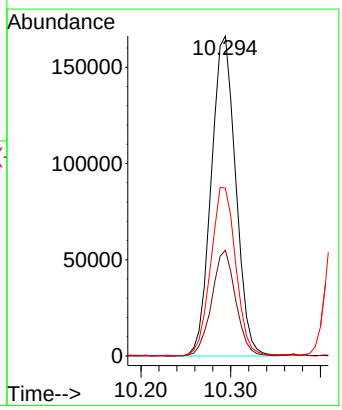
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

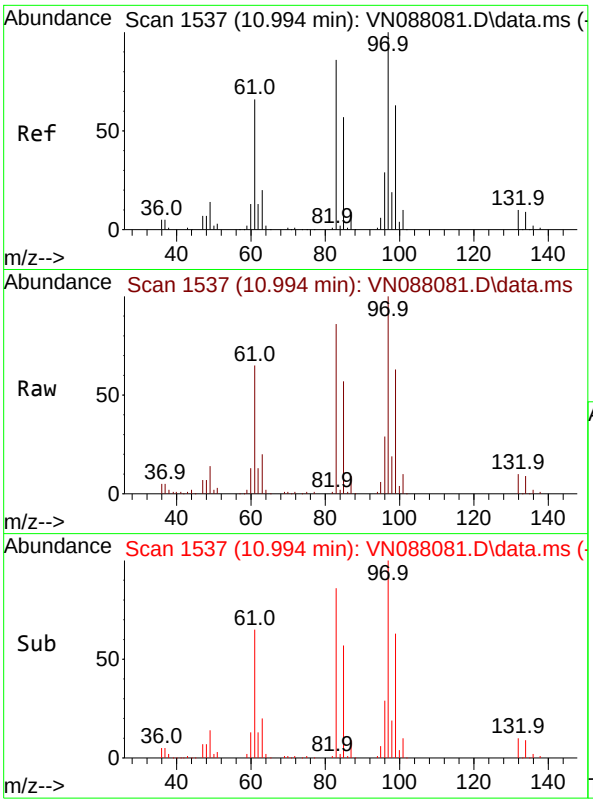


#54
cis-1,3-Dichloropropene
Concen: 41.178 ug/l
RT: 10.294 min Scan# 1418
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 75 Resp: 314717

Ion	Ratio	Lower	Upper
75	100		
77	33.0	24.6	37.0
39	52.3	45.2	67.8

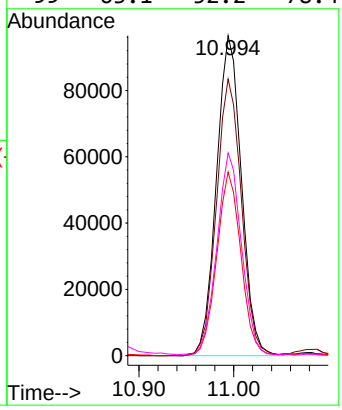




#55
1,1,2-Trichloroethane
Concen: 40.263 ug/l
RT: 10.994 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 97 Resp: 17679

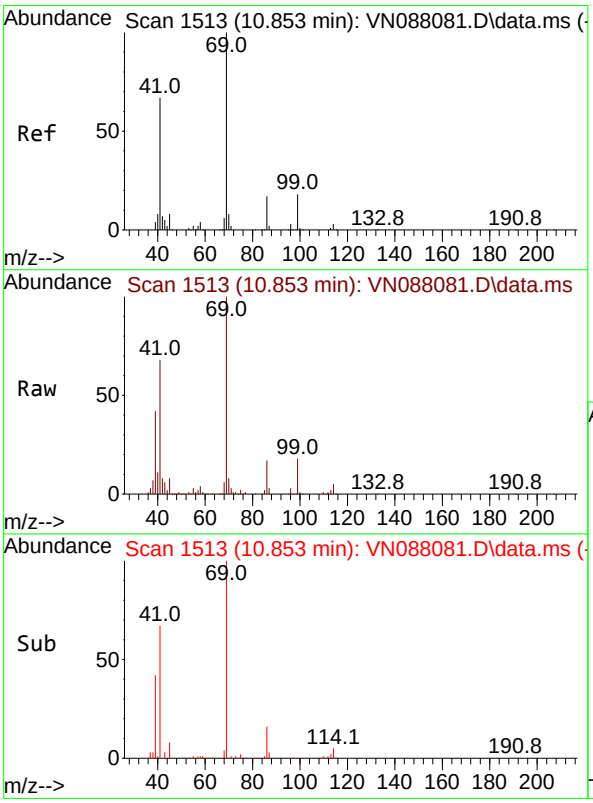
Ion	Ratio	Lower	Upper
97	100		
83	86.4	68.2	102.4
85	57.4	45.5	68.3
99	63.1	52.2	78.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

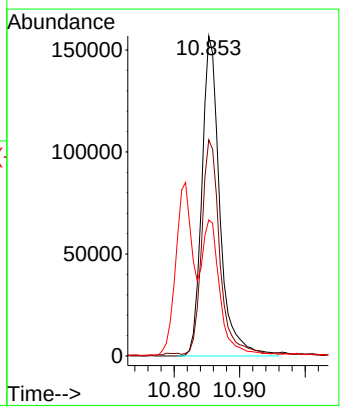
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

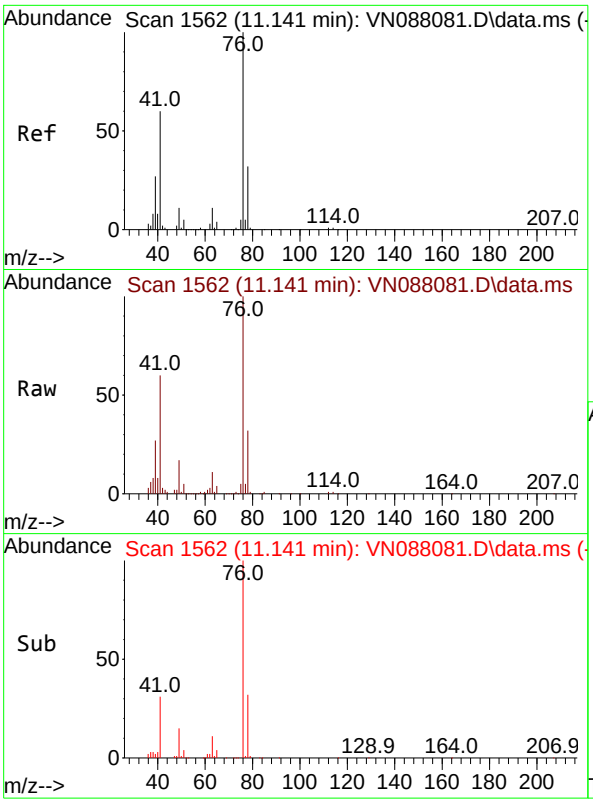


#56
Ethyl methacrylate
Concen: 43.059 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 69 Resp: 298768

Ion	Ratio	Lower	Upper
69	100		
41	67.3	56.5	84.7
39	41.9	34.2	51.4

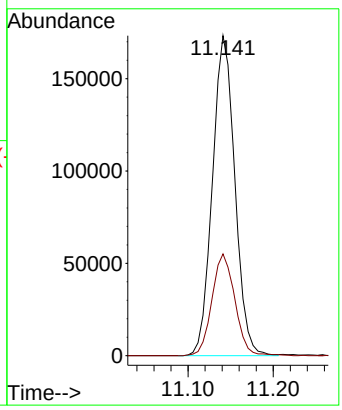




#57
1,3-Dichloropropane
Concen: 41.174 ug/l
RT: 11.141 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 76 Resp: 31778

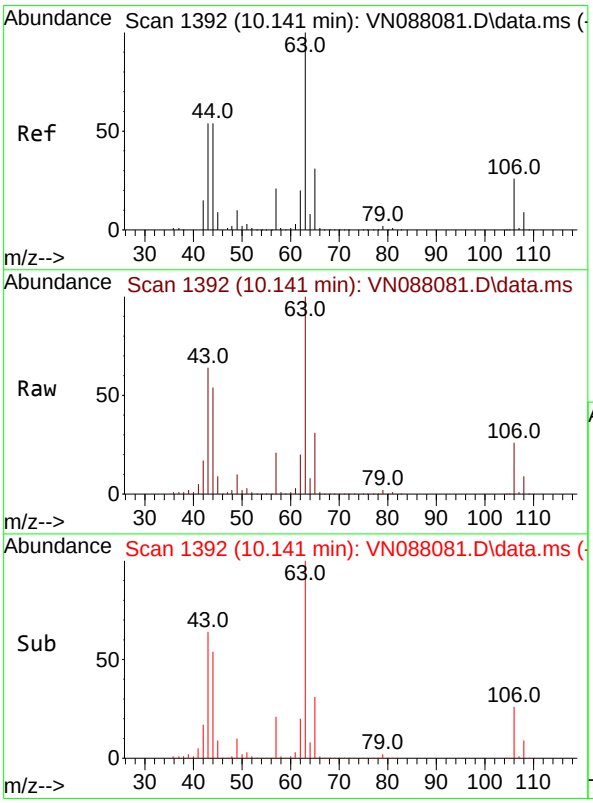
Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

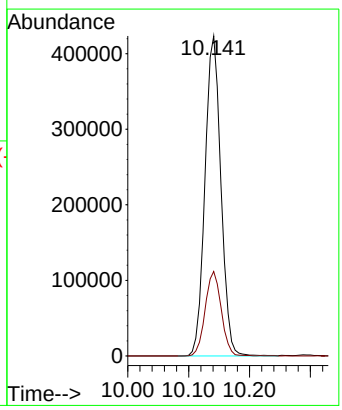
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

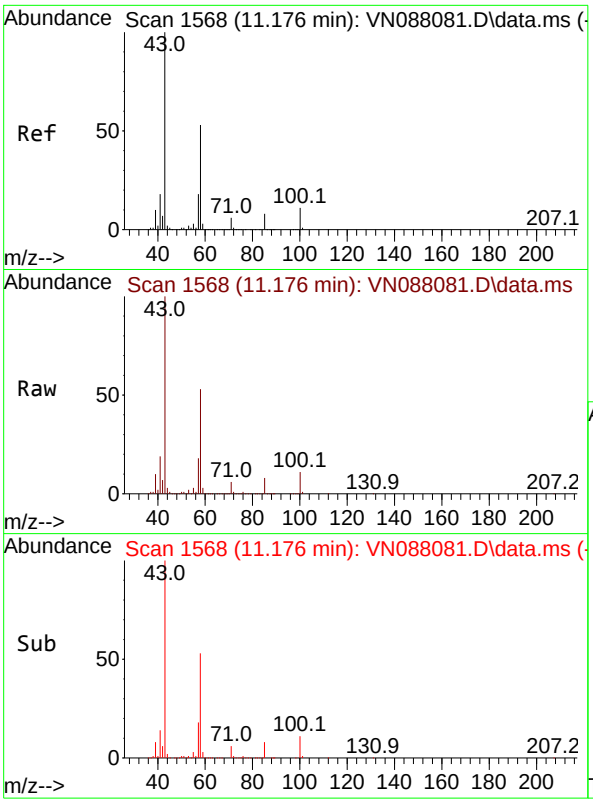


#58
2-Chloroethyl Vinyl ether
Concen: 213.014 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 63 Resp: 769938

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.1	31.7





#59
2-Hexanone
Concen: 220.085 ug/l
RT: 11.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

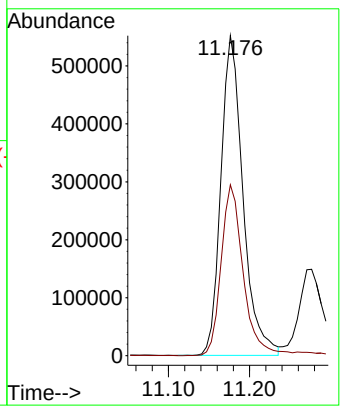
Tgt Ion: 43 Resp: 104474

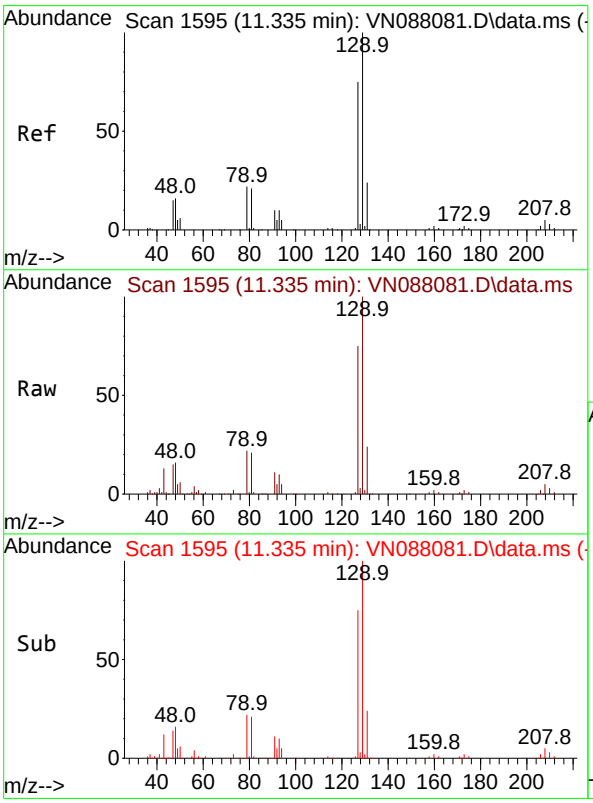
Ion	Ratio	Lower	Upper
43	100		
58	53.4	25.9	77.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

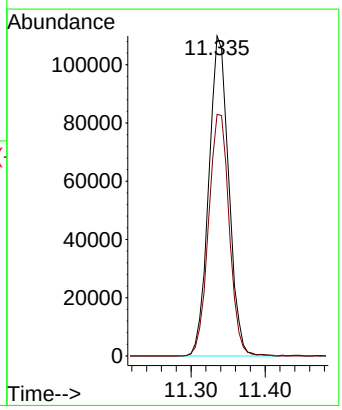


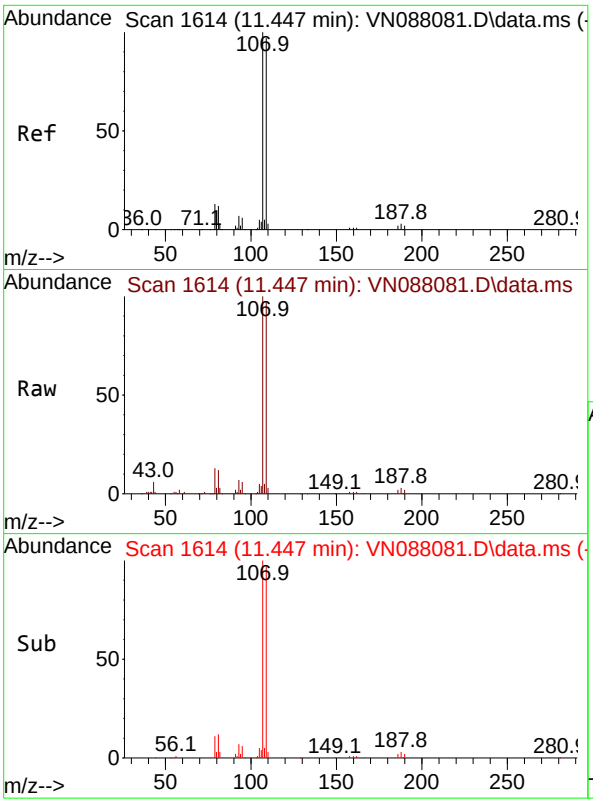


#60
Dibromochloromethane
Concen: 41.154 ug/l
RT: 11.335 min Scan# 1595
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:129 Resp: 205395

Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.1	117.3

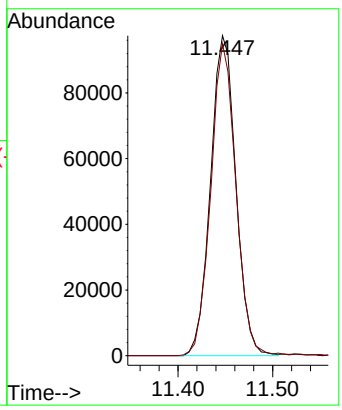




#61
1,2-Dibromoethane
Concen: 40.156 ug/l
RT: 11.447 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:107 Resp: 18146

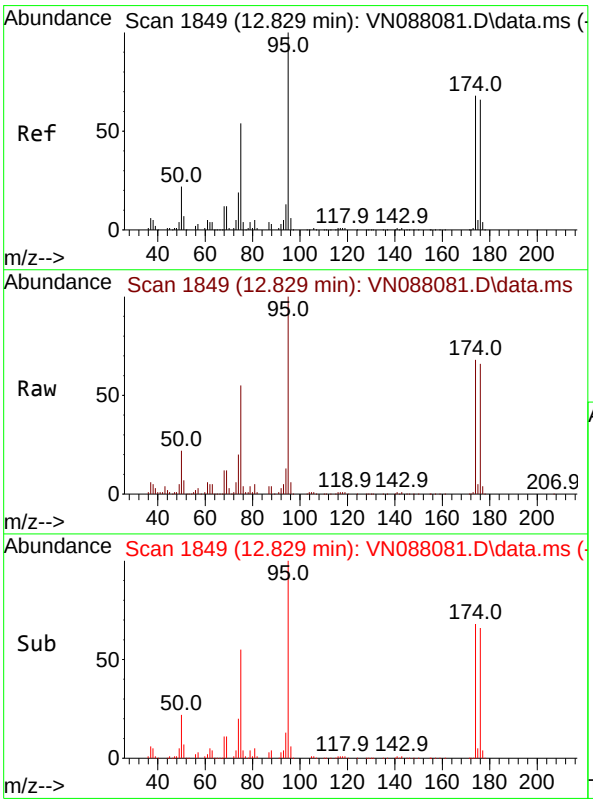
Ion	Ratio	Lower	Upper
107	100		
109	96.3	74.7	112.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

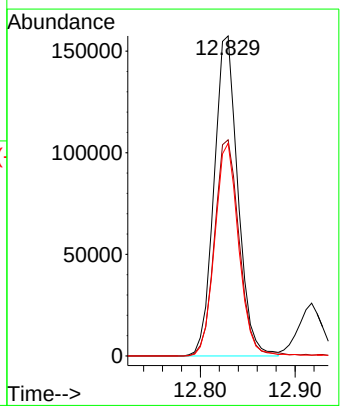
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

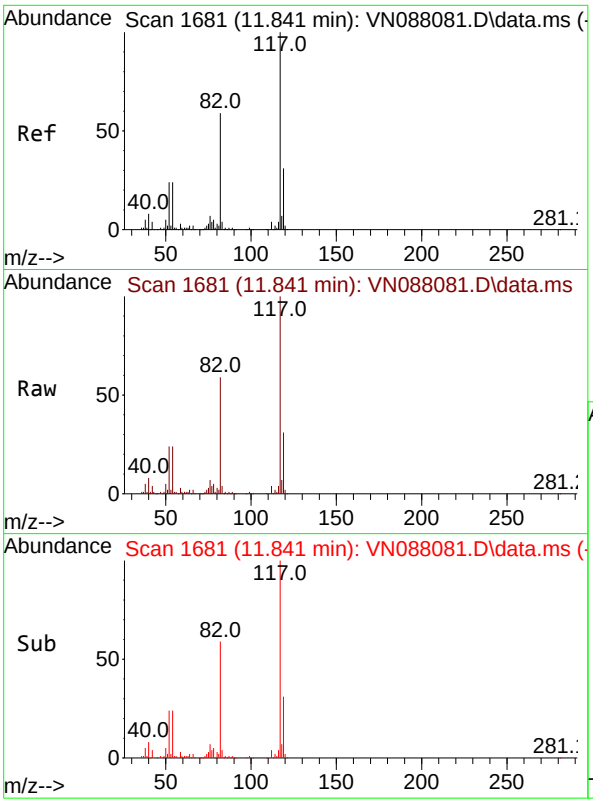


#62
4-Bromofluorobenzene
Concen: 47.966 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 95 Resp: 275556

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	138.4
176	66.7	0.0	132.6

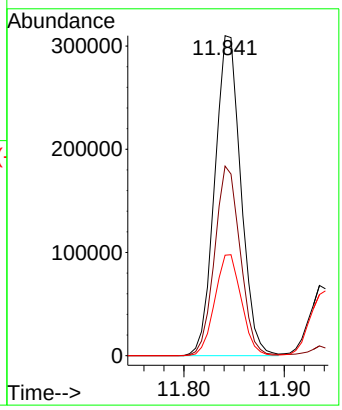




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:117 Resp: 55979

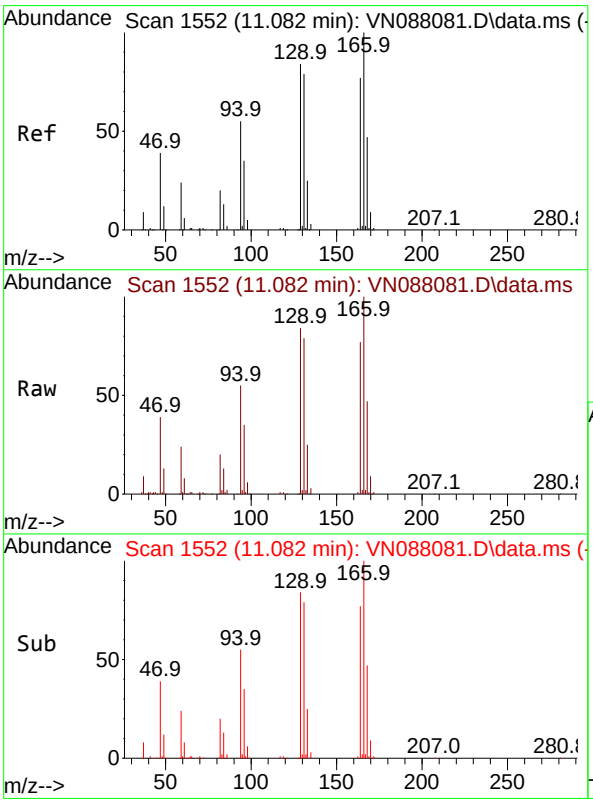
Ion	Ratio	Lower	Upper
117	100		
82	59.2	47.4	71.2
119	31.4	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

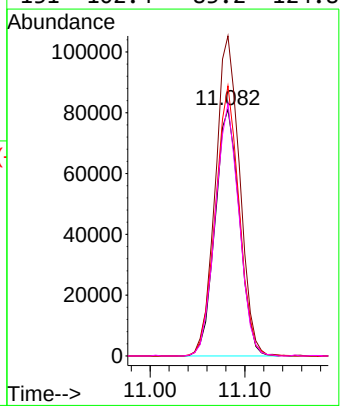
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

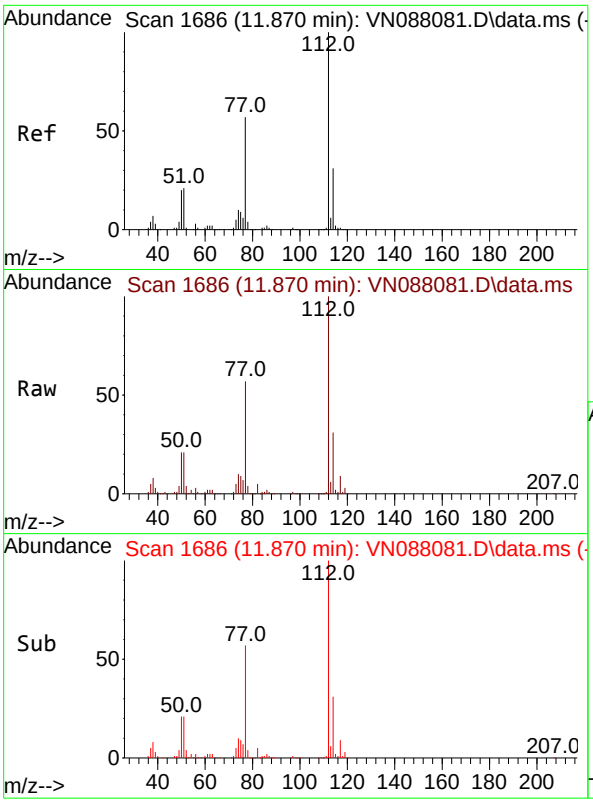


#64
Tetrachloroethene
Concen: 39.103 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:164 Resp: 144389

Ion	Ratio	Lower	Upper
164	100		
166	129.8	97.7	146.5
129	109.5	85.9	128.9
131	102.4	83.2	124.8

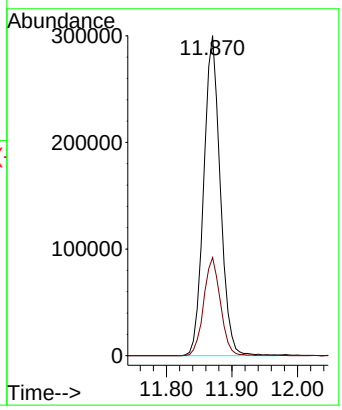




#65
Chlorobenzene
Concen: 41.452 ug/l
RT: 11.870 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:112 Resp: 52690

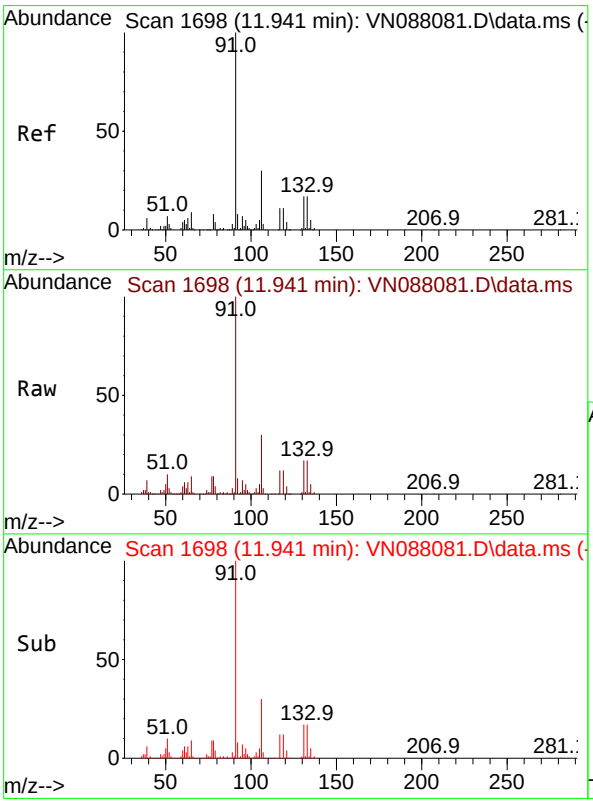
Ion	Ratio	Lower	Upper
112	100		
114	30.7	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

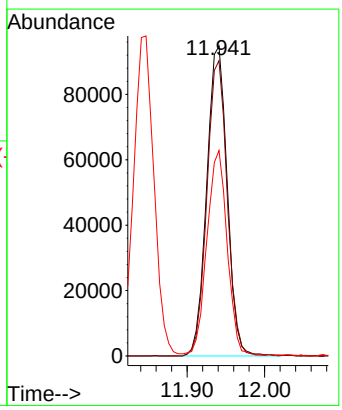
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

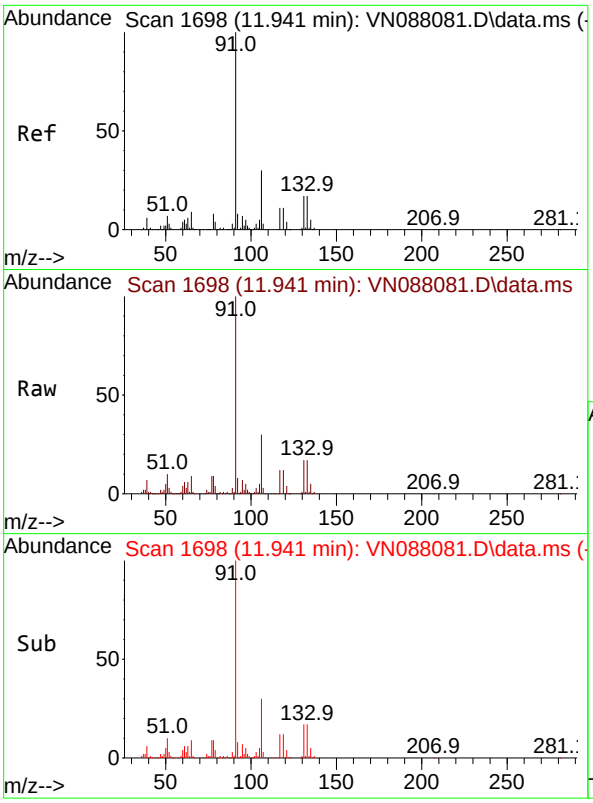


#66
1,1,1,2-Tetrachloroethane
Concen: 41.687 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:131 Resp: 173604

Ion	Ratio	Lower	Upper
131	100		
133	95.0	48.0	144.0
119	65.7	32.6	97.7

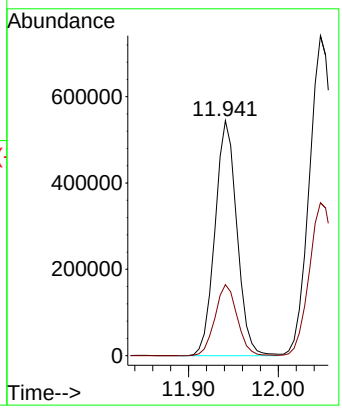




#67
Ethyl Benzene
Concen: 41.382 ug/l
RT: 11.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 91 Resp: 92332

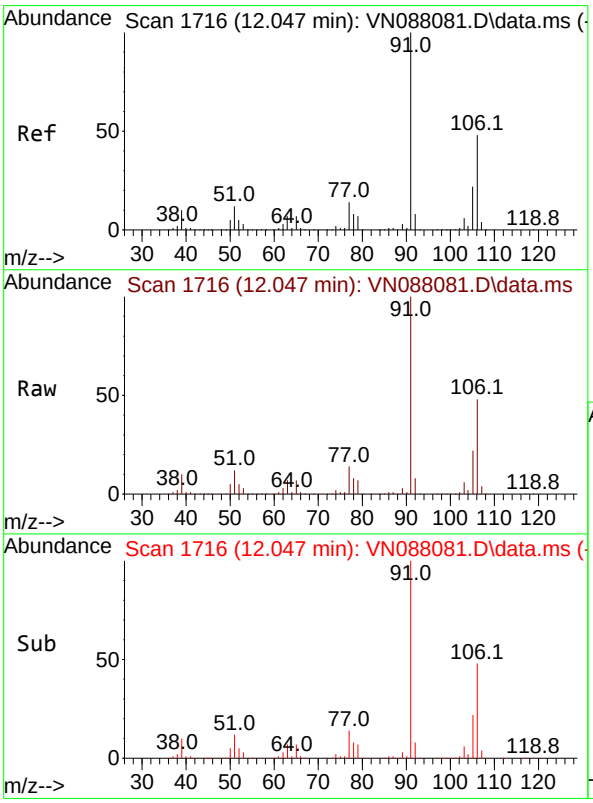
Ion	Ratio	Lower	Upper
91	100		
106	30.2	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

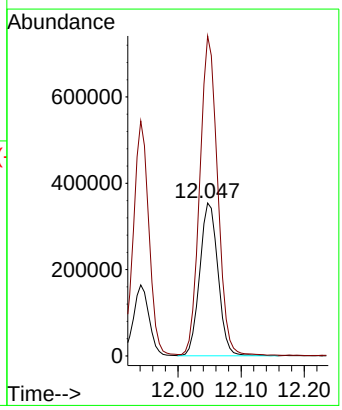
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

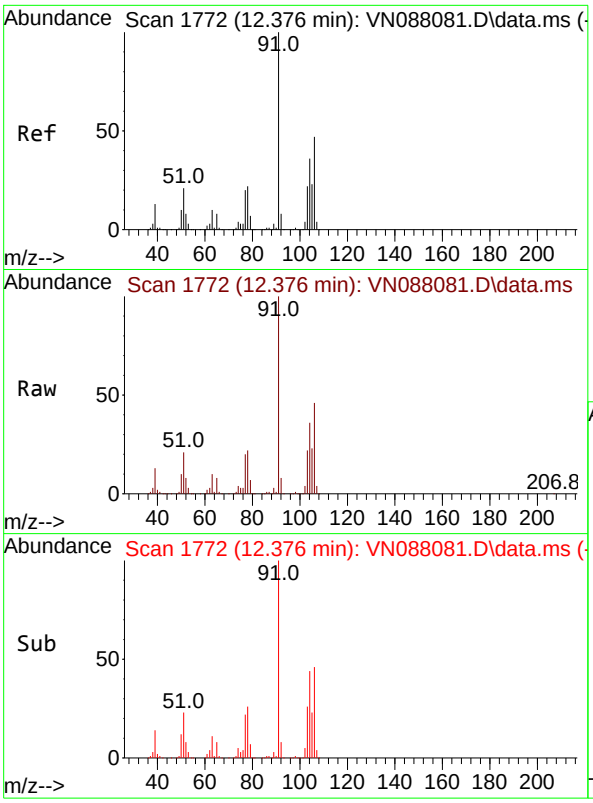


#68
m/p-Xylenes
Concen: 84.991 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:106 Resp: 710517

Ion	Ratio	Lower	Upper
106	100		
91	204.4	169.3	253.9

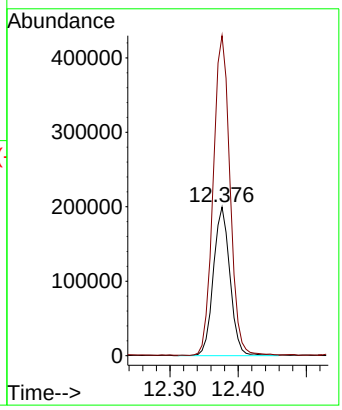




#69
o-Xylene
Concen: 42.650 ug/l
RT: 12.376 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:106 Resp: 33799

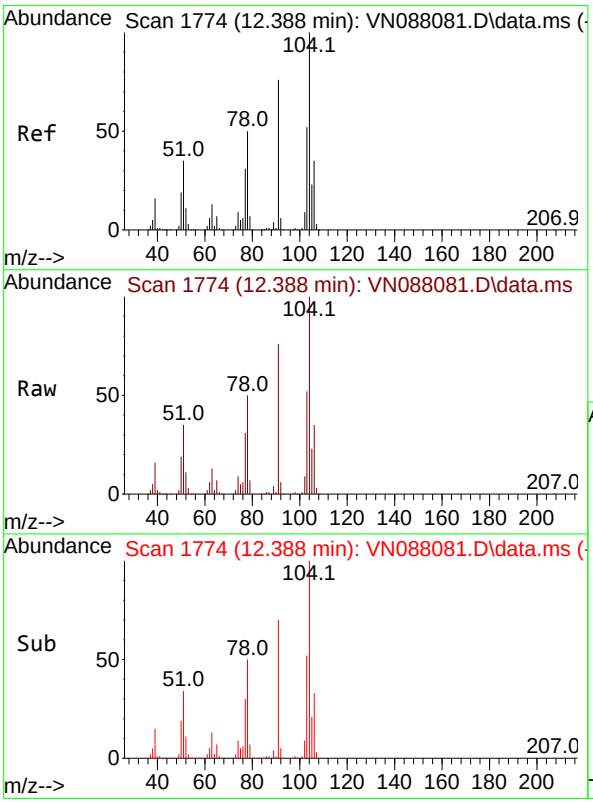
Ion	Ratio	Lower	Upper
106	100		
91	217.7	111.4	334.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

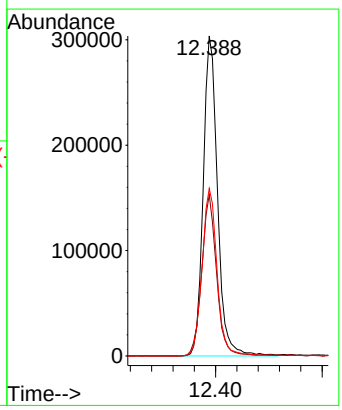
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

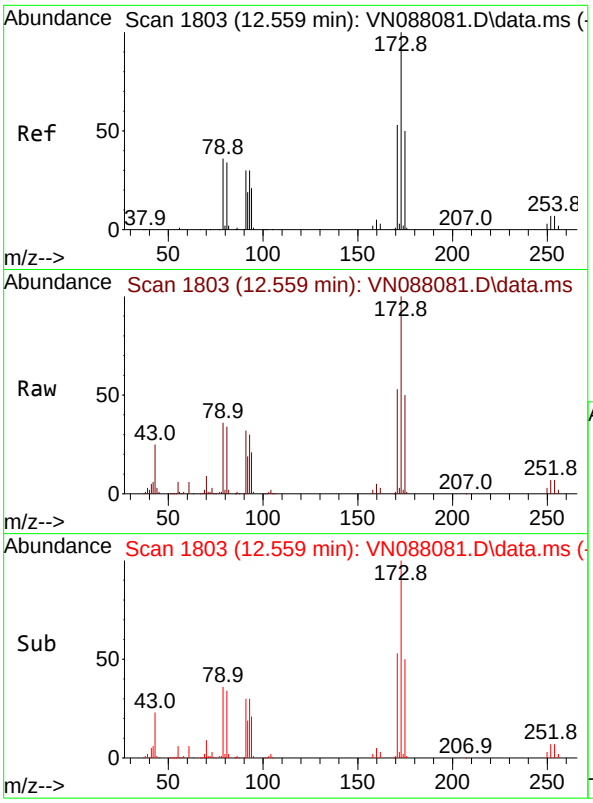


#70
Styrene
Concen: 43.775 ug/l
RT: 12.388 min Scan# 1774
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:104 Resp: 565710

Ion	Ratio	Lower	Upper
104	100		
78	51.8	42.2	63.2
103	55.1	43.4	65.2

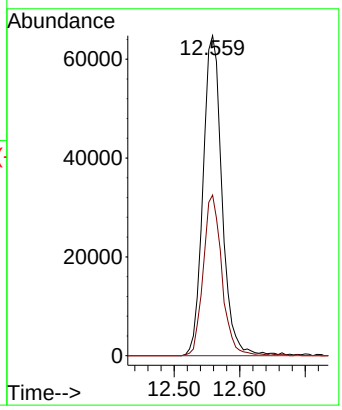




#71
Bromoform
Concen: 42.013 ug/l
RT: 12.559 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:173 Resp: 13056

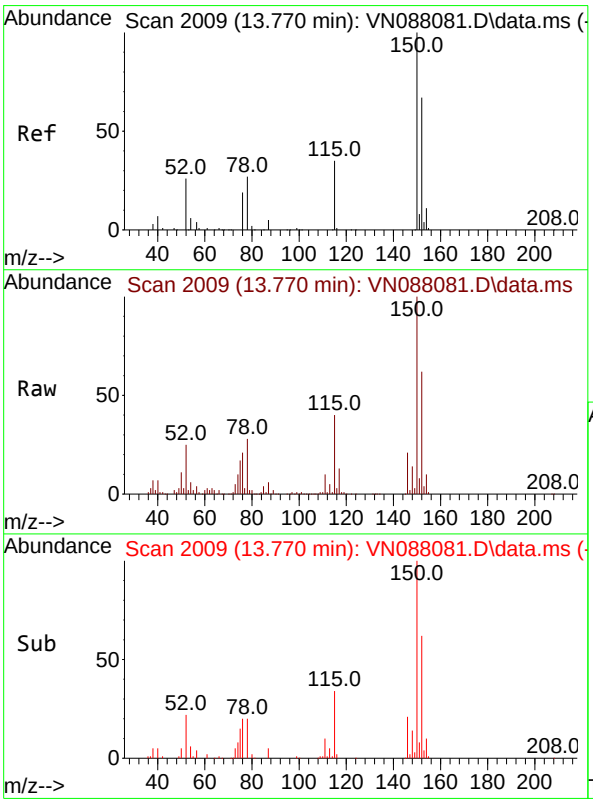
Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

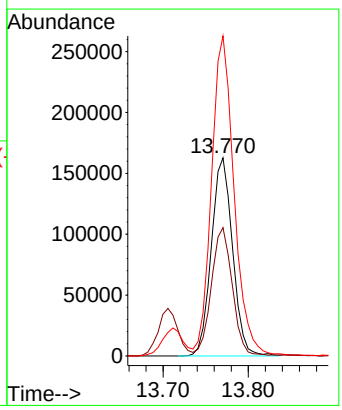
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

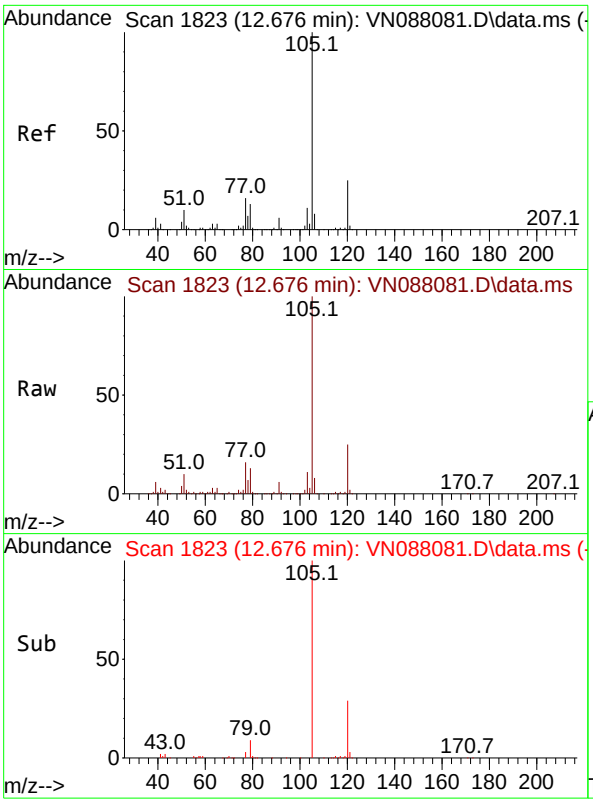


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:152 Resp: 281739

Ion	Ratio	Lower	Upper
152	100		
115	64.1	32.3	96.8
150	171.3	0.0	351.0

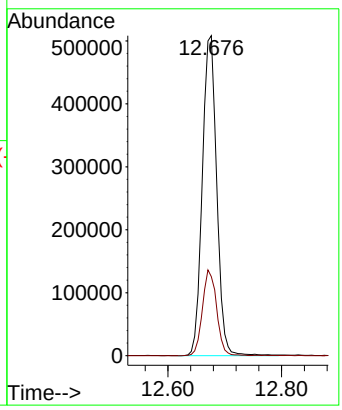




#73
Isopropylbenzene
Concen: 41.140 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:105 Resp: 89396

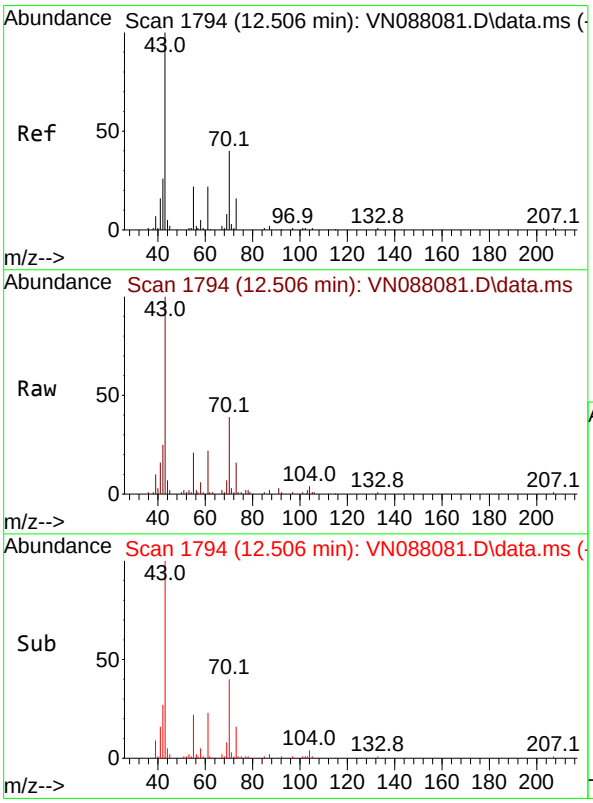
Ion	Ratio	Lower	Upper
105	100		
120	26.3	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

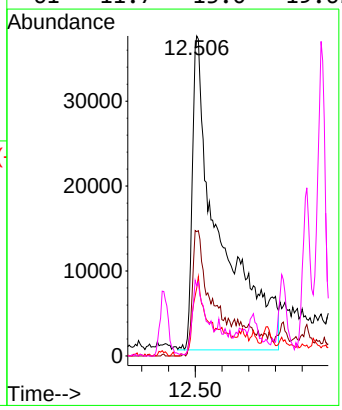
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

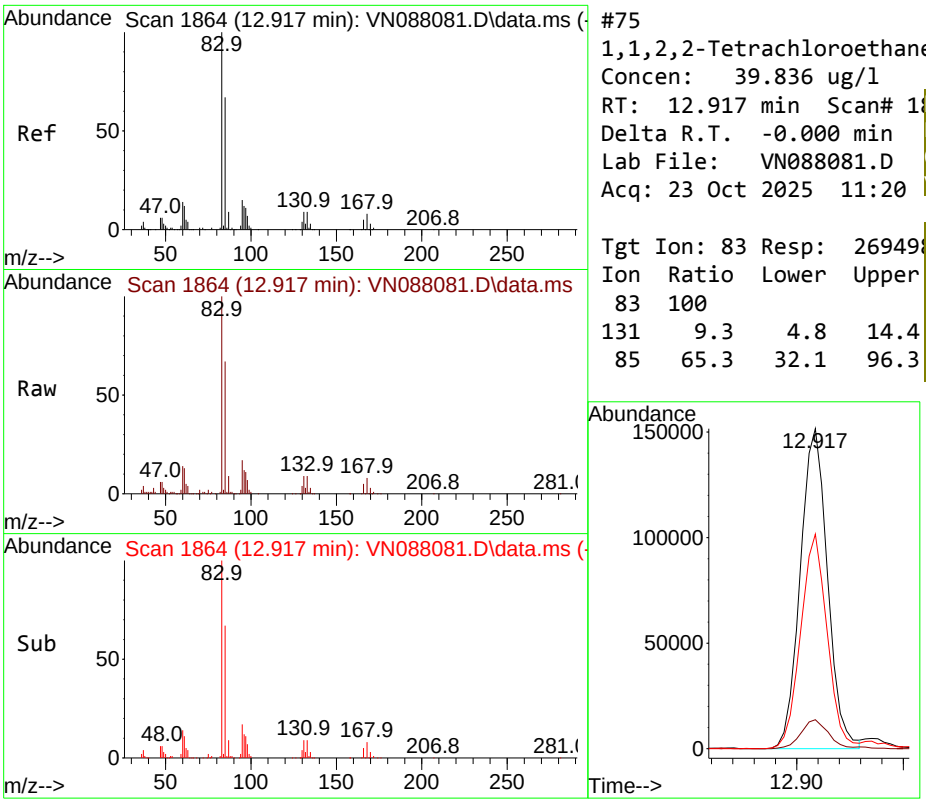


#74
N-amyl acetate
Concen: 51.362 ug/l m
RT: 12.506 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 43 Resp: 259151

Ion	Ratio	Lower	Upper
43	100		
70	27.8	27.6	41.4
55	12.8	13.0	19.6#
61	11.7	13.0	19.6#





#75
1,1,2,2-Tetrachloroethane
Concen: 39.836 ug/l
RT: 12.917 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

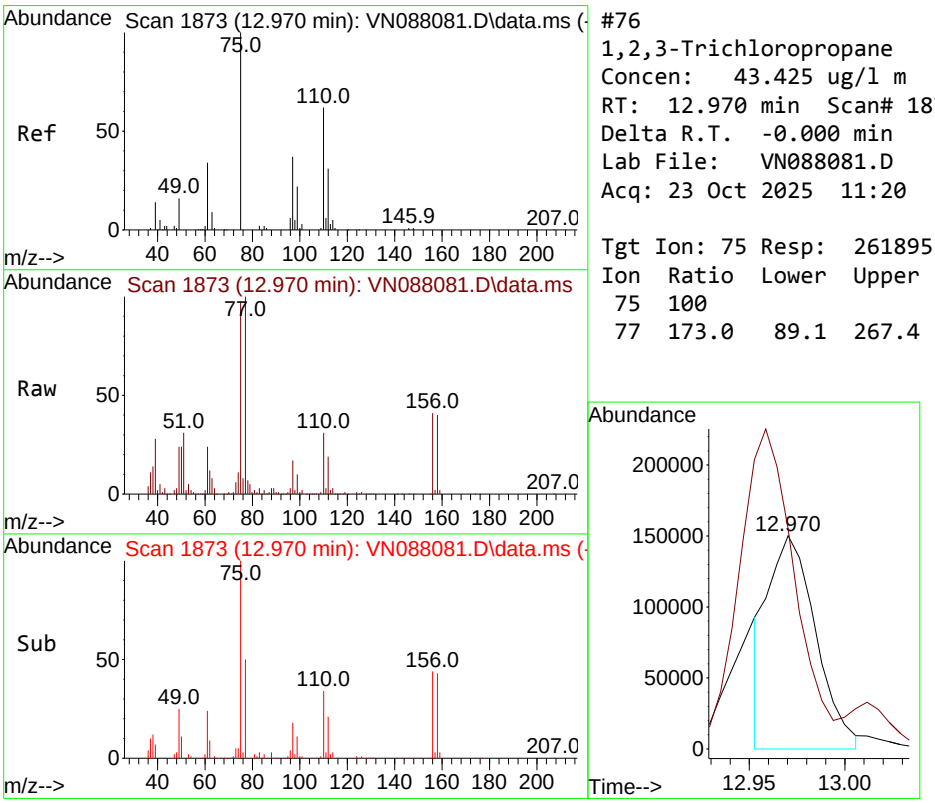
Tgt Ion: 83 Resp: 26949

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.8	14.4
85	65.3	32.1	96.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

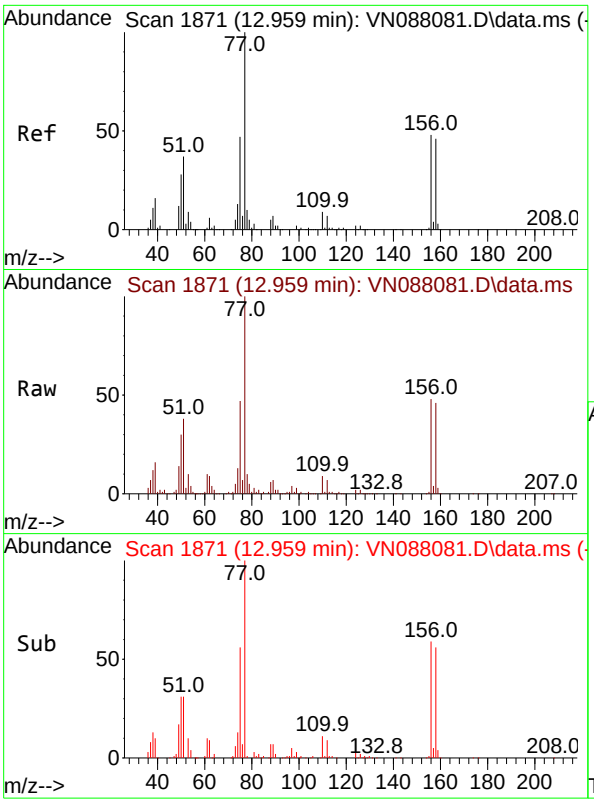
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#76
1,2,3-Trichloropropane
Concen: 43.425 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 75 Resp: 261895

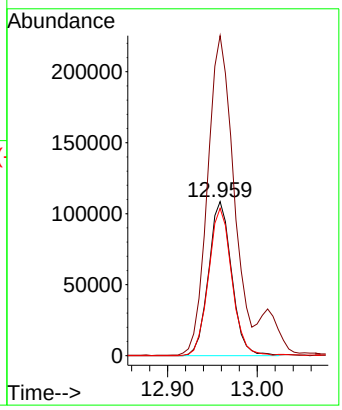
Ion	Ratio	Lower	Upper
75	100		
77	173.0	89.1	267.4



#77
Bromobenzene
Concen: 41.334 ug/l
RT: 12.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:156 Resp: 19368

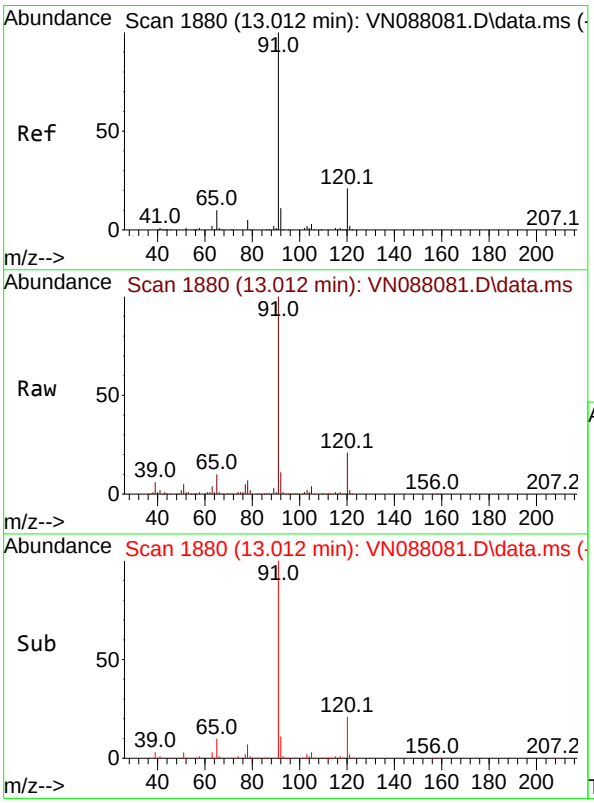
Ion	Ratio	Lower	Upper
156	100		
77	233.9	119.3	358.0
158	96.6	48.2	144.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

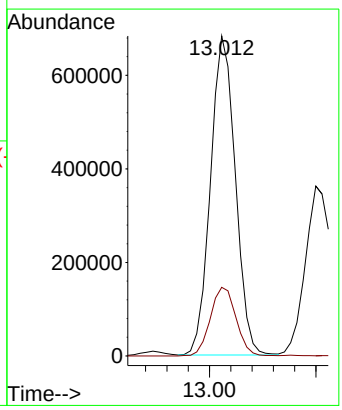
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

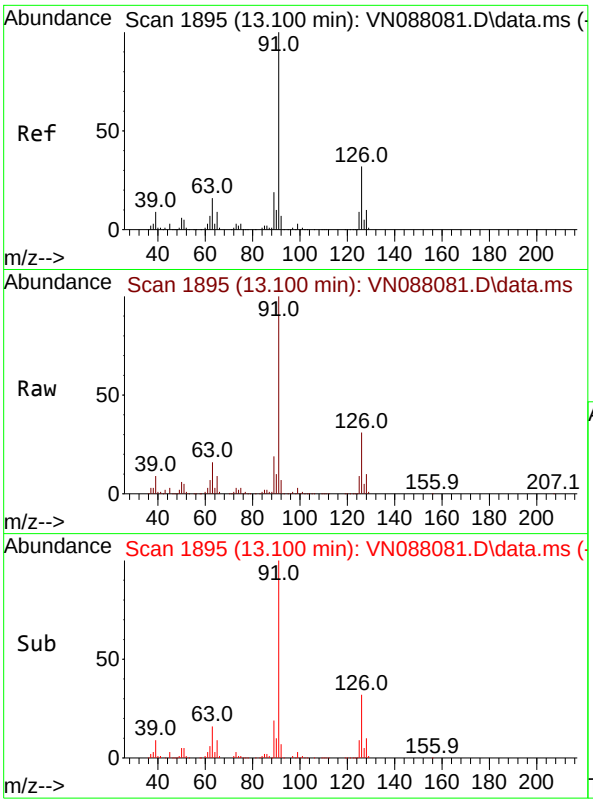


#78
n-propylbenzene
Concen: 41.704 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 91 Resp: 1105898

Ion	Ratio	Lower	Upper
91	100		
120	22.2	10.7	32.1

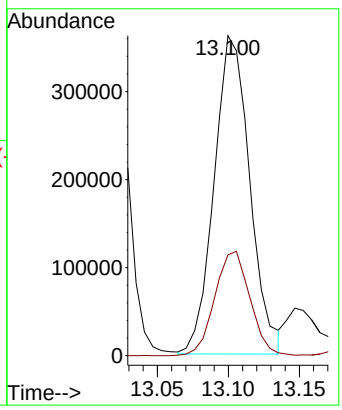




#79
2-Chlorotoluene
Concen: 41.827 ug/l
RT: 13.100 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 91 Resp: 63253

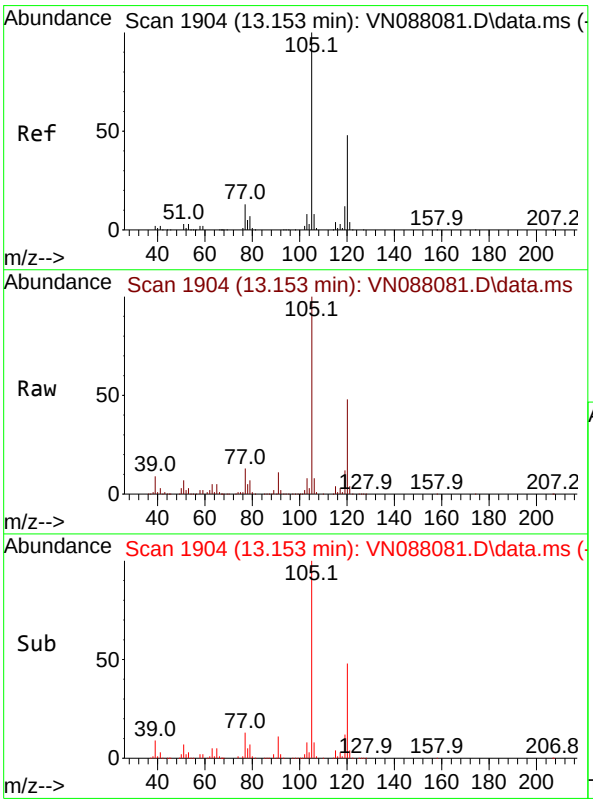
Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.1	48.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

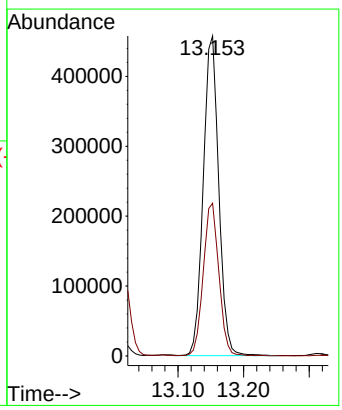
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

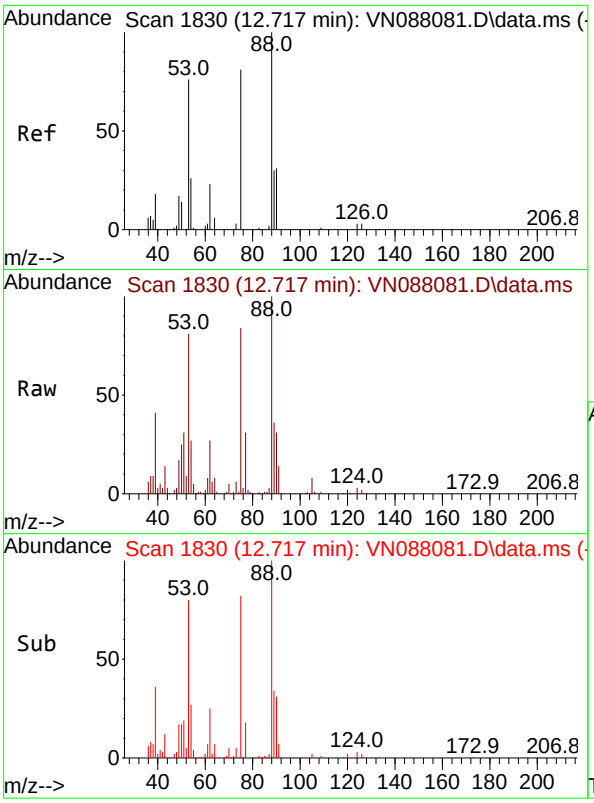


#80
1,3,5-Trimethylbenzene
Concen: 41.667 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:105 Resp: 751960

Ion	Ratio	Lower	Upper
105	100		
120	48.3	23.2	69.6





#81
trans-1,4-Dichloro-2-butene
Concen: 38.524 ug/l
RT: 12.717 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

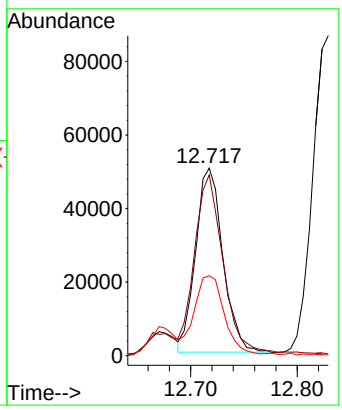
Tgt Ion: 75 Resp: 8918

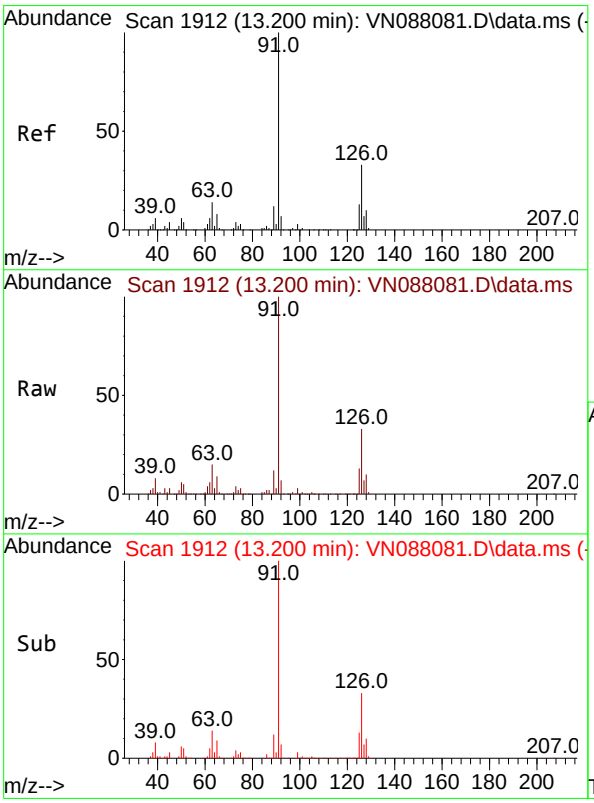
Ion	Ratio	Lower	Upper
75	100		
53	100.2	101.8	152.6
89	47.6	35.6	53.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

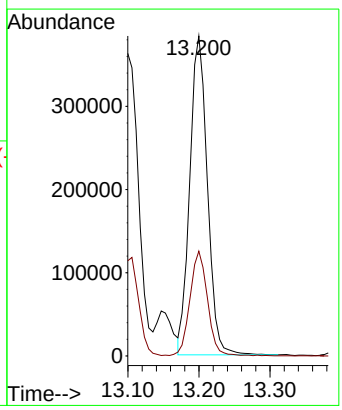


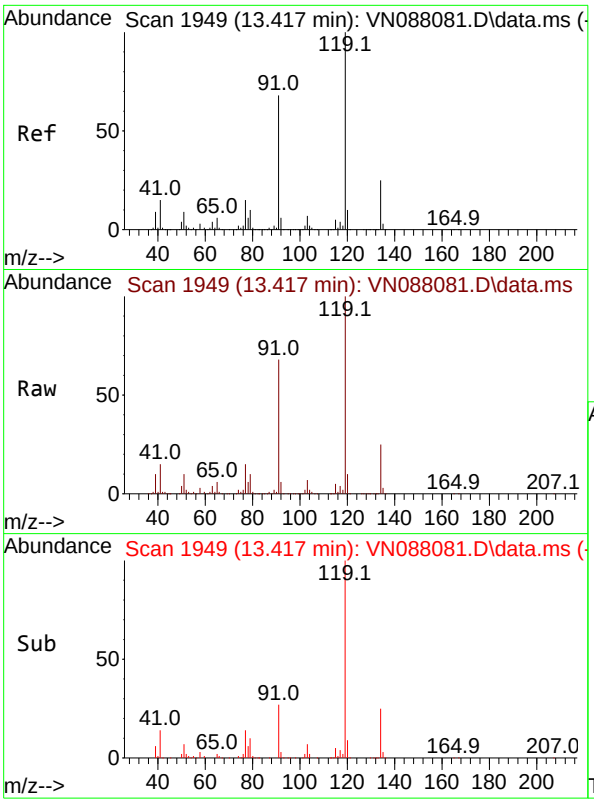


#82
4-Chlorotoluene
Concen: 40.376 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 91 Resp: 660605

Ion	Ratio	Lower	Upper
91	100		
126	32.9	15.6	46.8

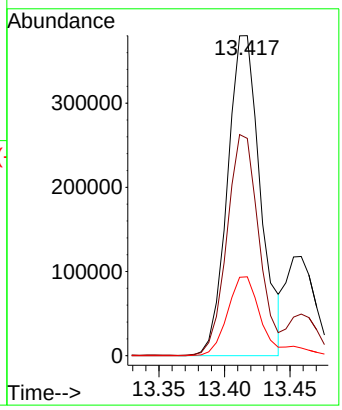




#83
tert-Butylbenzene
Concen: 41.215 ug/l
RT: 13.417 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:119 Resp: 66444

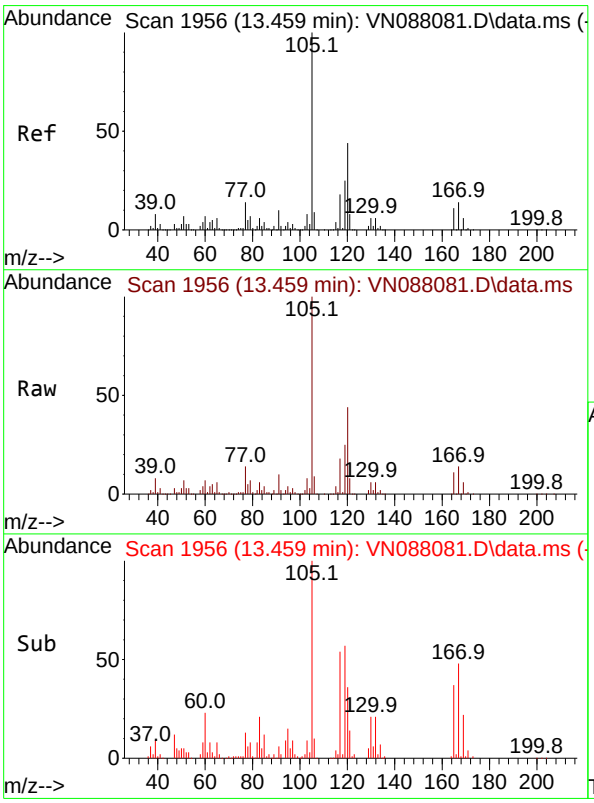
Ion	Ratio	Lower	Upper
119	100		
91	66.8	35.0	105.0
134	26.2	12.6	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

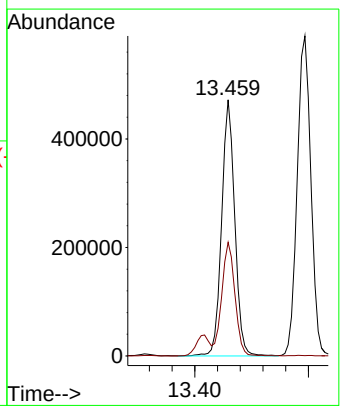
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

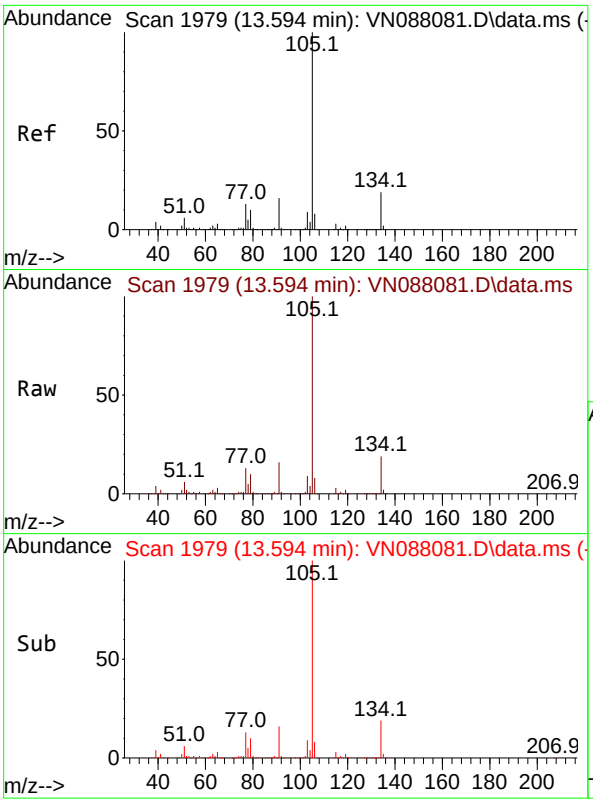


#84
1,2,4-Trimethylbenzene
Concen: 42.122 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:105 Resp: 760563

Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.0	66.0

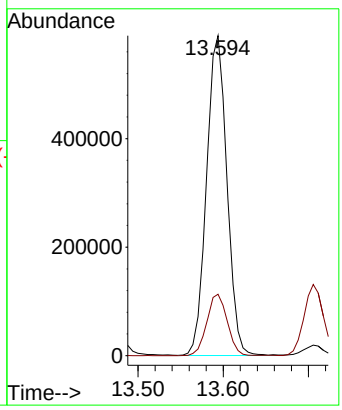




#85
sec-Butylbenzene
Concen: 41.511 ug/l
RT: 13.594 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:105 Resp: 98320

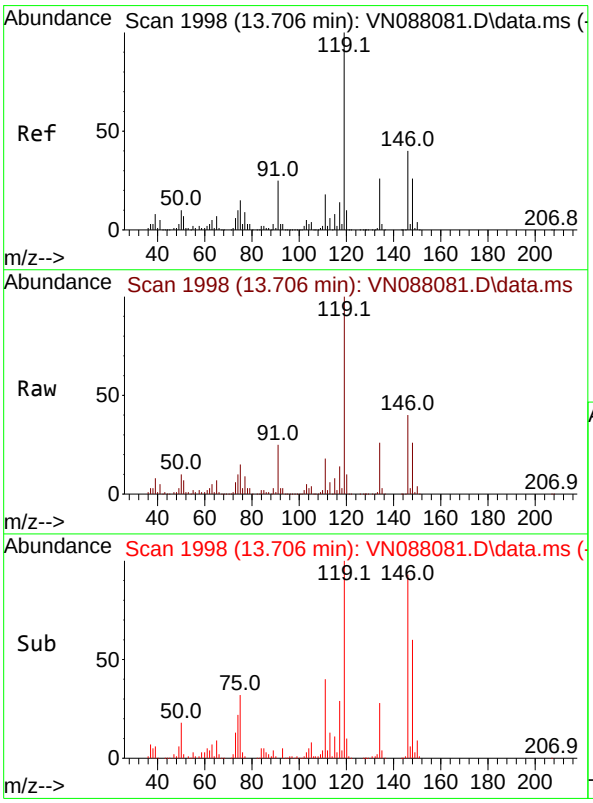
Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.6	28.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

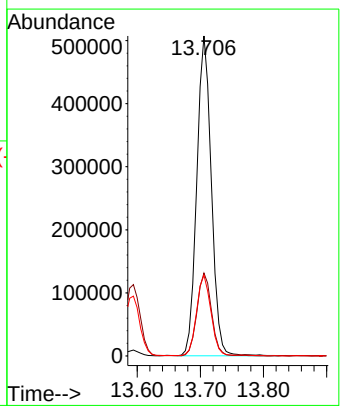
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

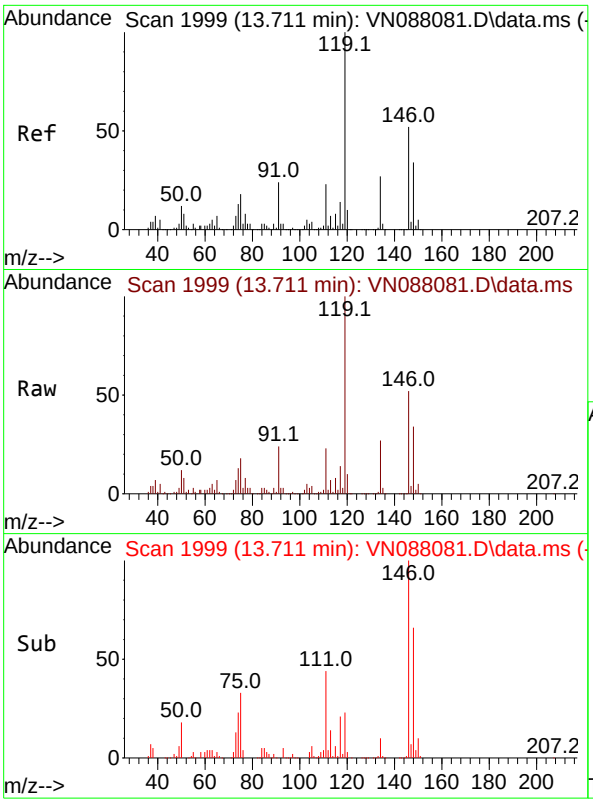


#86
p-Isopropyltoluene
Concen: 42.500 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:119 Resp: 807519

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.7	38.0
91	24.7	12.5	37.5

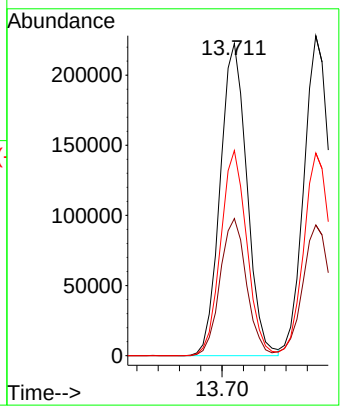




#87
1,3-Dichlorobenzene
Concen: 41.563 ug/l
RT: 13.711 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:146 Resp: 38878

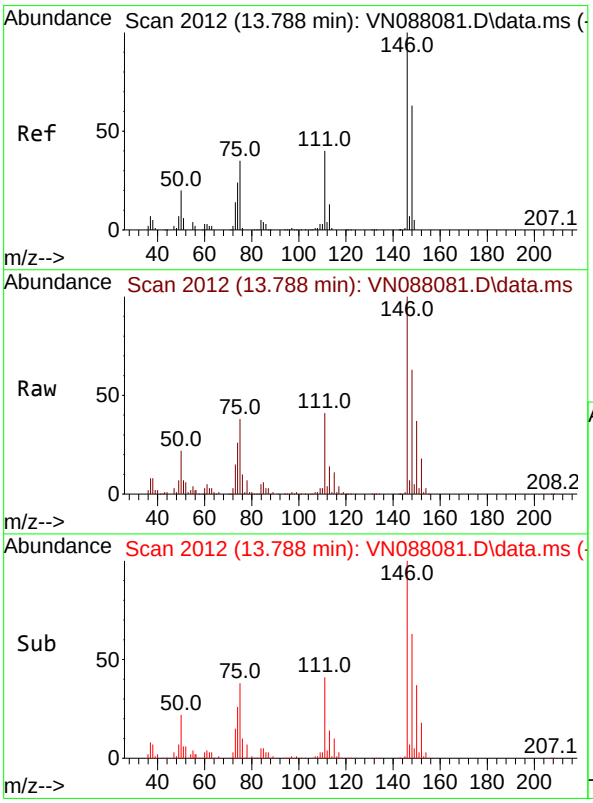
Ion	Ratio	Lower	Upper
146	100		
111	43.2	22.1	66.5
148	64.3	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

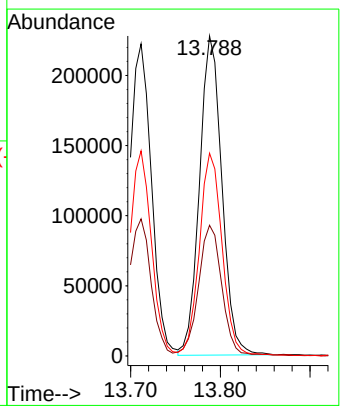
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

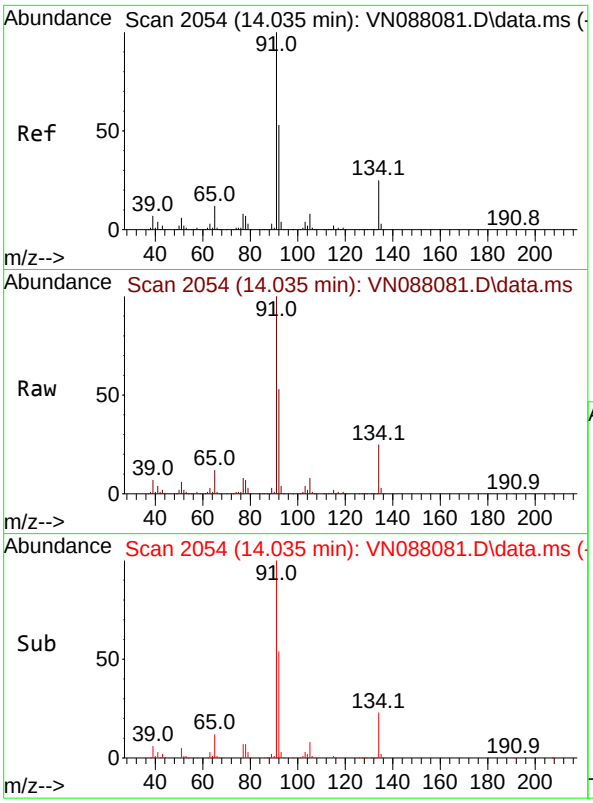


#88
1,4-Dichlorobenzene
Concen: 39.127 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:146 Resp: 394135

Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.0	63.0
148	65.3	32.0	96.0

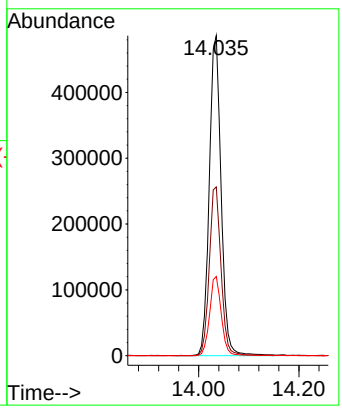




#89
n-Butylbenzene
Concen: 42.312 ug/l
RT: 14.035 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 91 Resp: 79634

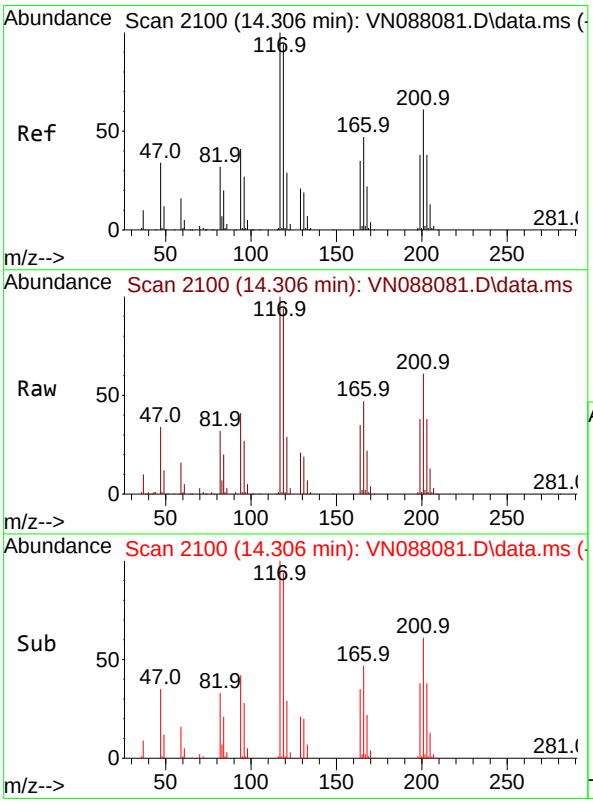
Ion	Ratio	Lower	Upper
91	100		
92	52.2	25.9	77.8
134	24.5	11.7	35.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

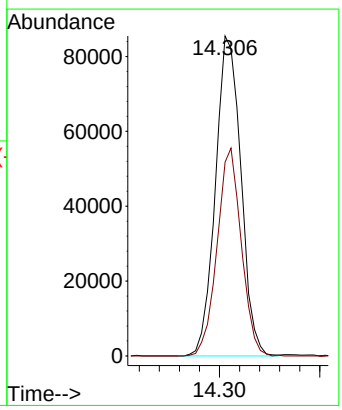
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

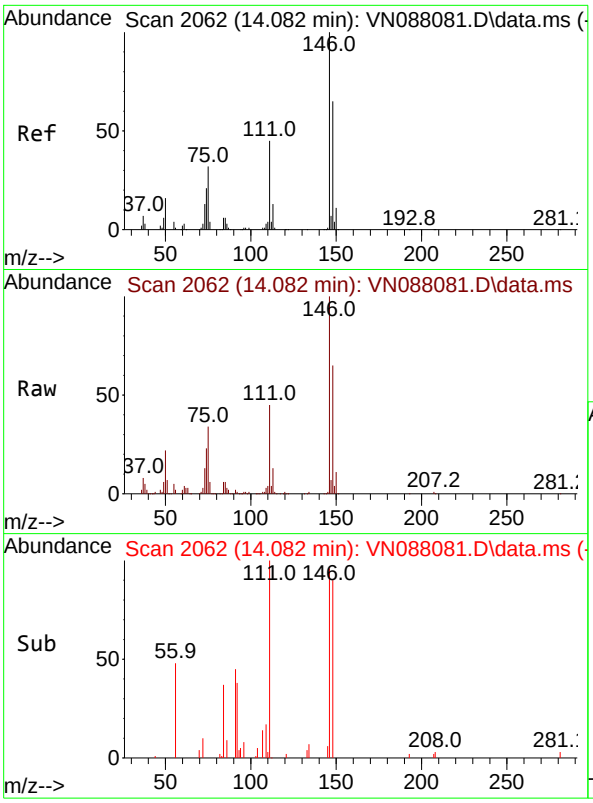


#90
Hexachloroethane
Concen: 40.985 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:117 Resp: 150804

Ion	Ratio	Lower	Upper
117	100		
201	61.6	29.1	87.4

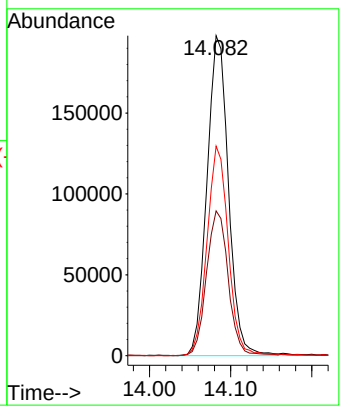




#91
1,2-Dichlorobenzene
Concen: 40.339 ug/l
RT: 14.082 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:146 Resp: 36373

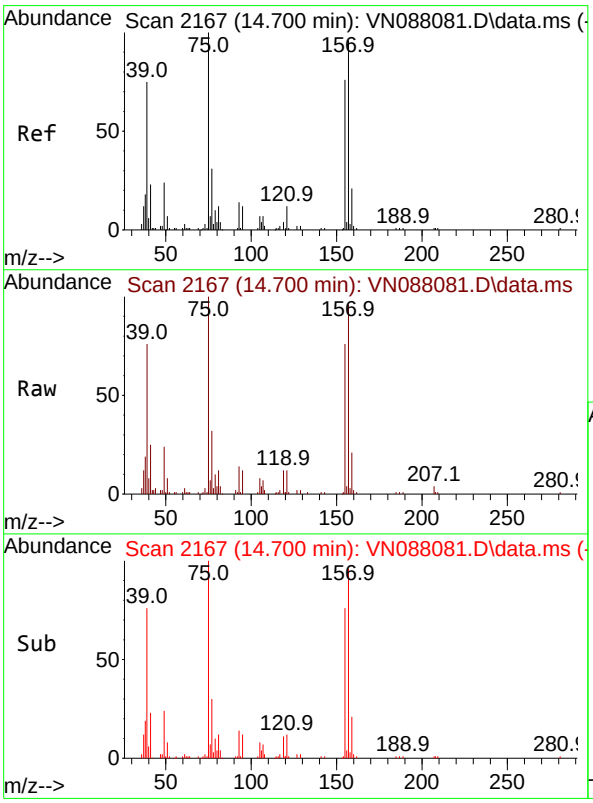
Ion	Ratio	Lower	Upper
146	100		
111	46.1	22.6	67.8
148	65.1	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

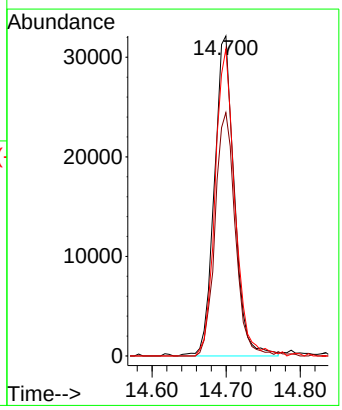
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

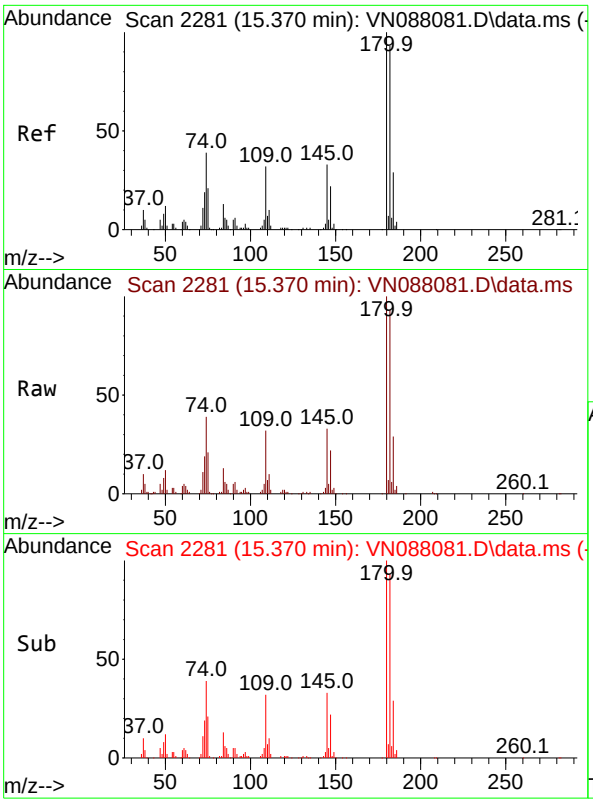


#92
1,2-Dibromo-3-Chloropropane
Concen: 38.267 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion: 75 Resp: 60256

Ion	Ratio	Lower	Upper
75	100		
155	76.8	36.6	109.9
157	95.1	45.6	136.9

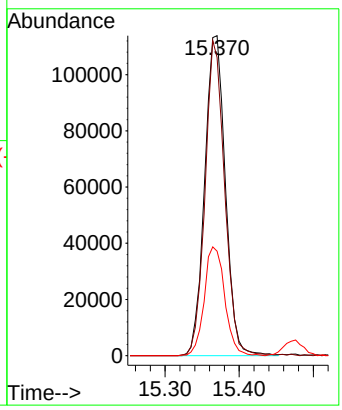




#93
1,2,4-Trichlorobenzene
Concen: 40.476 ug/l
RT: 15.370 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:180 Resp: 22103

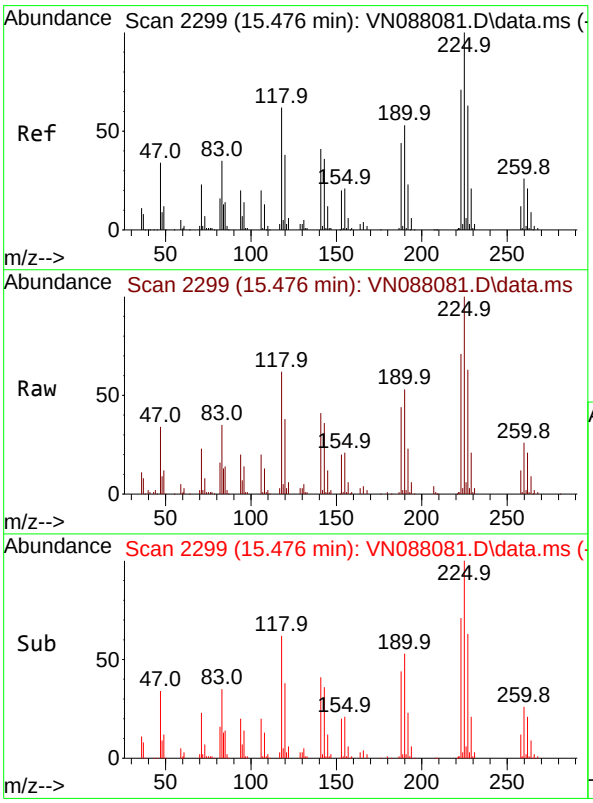
Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.6	142.9
145	33.7	16.5	49.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

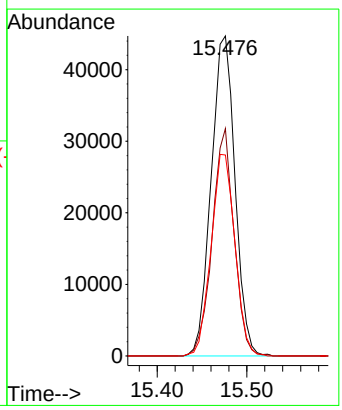
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

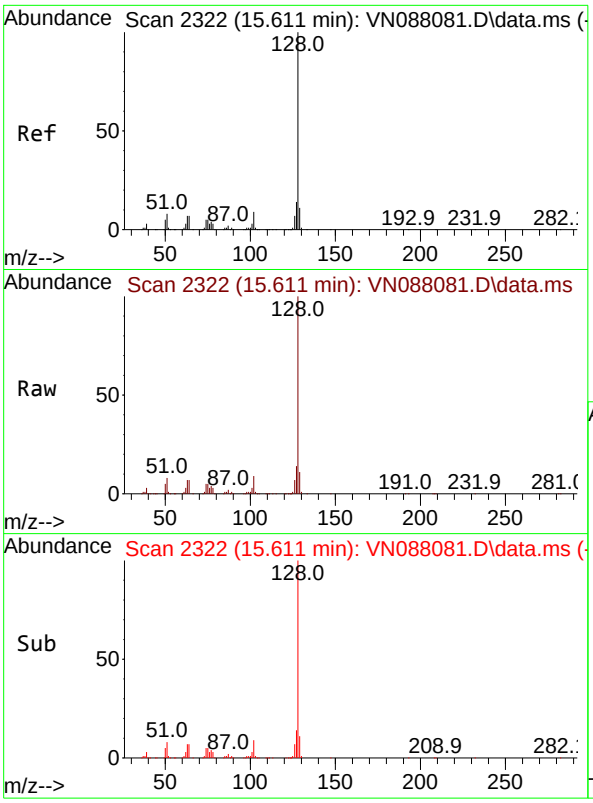


#94
Hexachlorobutadiene
Concen: 40.553 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:225 Resp: 82469

Ion	Ratio	Lower	Upper
225	100		
223	64.8	32.0	96.2
227	63.0	32.1	96.5

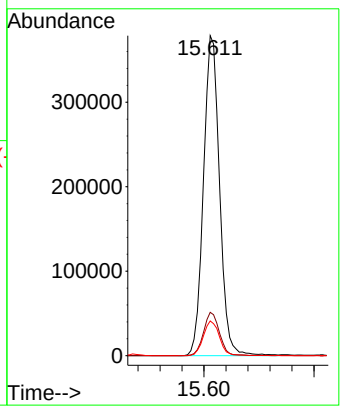




#95
Naphthalene
Concen: 41.144 ug/l
RT: 15.611 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:128 Resp: 76970

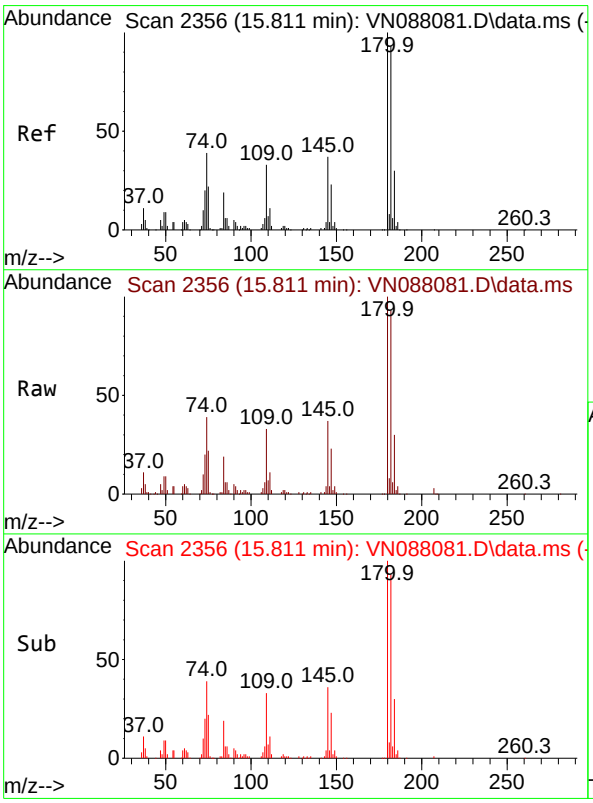
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	15.8
129	10.8	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

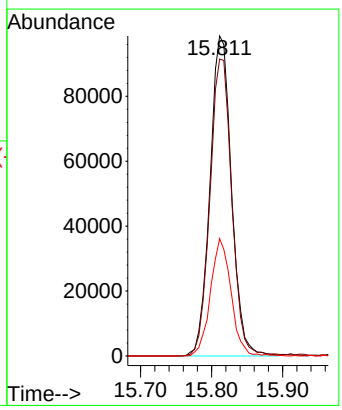
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 39.618 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. -0.000 min
Lab File: VN088081.D
Acq: 23 Oct 2025 11:20

Tgt Ion:180 Resp: 207445

Ion	Ratio	Lower	Upper
180	100		
182	94.0	46.8	140.3
145	35.1	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088082.D
Acq On : 23 Oct 2025 11:41
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 24 02:43:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:37:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	328655	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	610283	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	541844	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	276404	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	540367	95.083	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 190.160%#			
35) Dibromofluoromethane	8.147	113	399554	97.454	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 194.900%#			
50) Toluene-d8	10.547	98	1566524	99.162	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 198.320%#			
62) 4-Bromofluorobenzene	12.829	95	569341	102.048	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 204.100%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	323877	87.364	ug/l	98
3) Chloromethane	2.383	50	380310	87.199	ug/l	99
4) Vinyl Chloride	2.536	62	419872	88.355	ug/l	98
5) Bromomethane	2.959	94	255765	89.983	ug/l	99
6) Chloroethane	3.130	64	293645	85.765	ug/l	99
7) Trichlorofluoromethane	3.506	101	677579	89.398	ug/l	97
8) Diethyl Ether	3.959	74	262726	93.266	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.365	101	368583	94.241	ug/l	99
10) Methyl Iodide	4.577	142	443084	109.415	ug/l	99
11) Tert butyl alcohol	5.524	59	496669	507.281	ug/l	97
12) 1,1-Dichloroethene	4.330	96	359796	87.100	ug/l	96
13) Acrolein	4.177	56	535773	486.494	ug/l	100
14) Allyl chloride	5.012	41	739017	102.372	ug/l	97
15) Acrylonitrile	5.706	53	1398460	524.363	ug/l	98
16) Acetone	4.424	43	1352111	473.573	ug/l	95
17) Carbon Disulfide	4.700	76	1260006	100.343	ug/l	97
18) Methyl Acetate	5.012	43	588757	100.725	ug/l	98
19) Methyl tert-butyl Ether	5.788	73	1557573	102.672	ug/l	99
20) Methylene Chloride	5.265	84	465262	103.852	ug/l	94
21) trans-1,2-Dichloroethene	5.771	96	442419	96.858	ug/l	97
22) Diisopropyl ether	6.659	45	1405211	92.284	ug/l	99
23) Vinyl Acetate	6.588	43	6435529	469.193	ug/l	100
24) 1,1-Dichloroethane	6.553	63	750482	88.975	ug/l	98
25) 2-Butanone	7.471	43	1695926	455.416	ug/l	99
26) 2,2-Dichloropropane	7.471	77	672222	87.699	ug/l	98
27) cis-1,2-Dichloroethene	7.471	96	456379	87.431	ug/l	97
28) Bromochloromethane	7.800	49	392057	98.372	ug/l	97
29) Tetrahydrofuran	7.824	42	1118711	456.222	ug/l	99
30) Chloroform	7.953	83	763656	90.626	ug/l	100
31) Cyclohexane	8.241	56	693259	87.146	ug/l	97
32) 1,1,1-Trichloroethane	8.153	97	666712	88.836	ug/l	97
36) 1,1-Dichloropropene	8.353	75	552930	92.365	ug/l	98
37) Ethyl Acetate	7.547	43	706621	91.855	ug/l	98
38) Carbon Tetrachloride	8.347	117	573295	92.723	ug/l	96
39) Methylcyclohexane	9.582	83	705005	91.622	ug/l	96
40) Benzene	8.588	78	1675215	91.888	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088082.D
Acq On : 23 Oct 2025 11:41
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 24 02:43:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:37:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.759	41	361660	88.949	ug/l		98
42) 1,2-Dichloroethane	8.653	62	585932	90.453	ug/l		100
43) Isopropyl Acetate	8.671	43	1114940	93.923	ug/l		98
44) Trichloroethene	9.335	130	388649	91.204	ug/l		94
45) 1,2-Dichloropropane	9.600	63	414728	90.107	ug/l		99
46) Dibromomethane	9.688	93	300542	91.556	ug/l		99
47) Bromodichloromethane	9.871	83	608546	92.594	ug/l	#	98
48) Methyl methacrylate	9.665	41	518783	92.006	ug/l		97
49) 1,4-Dioxane	9.682	88	129011	1892.672	ug/l	#	99
51) 4-Methyl-2-Pentanone	10.423	43	3369067	479.746	ug/l		99
52) Toluene	10.606	92	1051747	93.569	ug/l		97
53) t-1,3-Dichloropropene	10.818	75	682584	97.583	ug/l		98
54) cis-1,3-Dichloropropene	10.294	75	716101	96.477	ug/l		95
55) 1,1,2-Trichloroethane	10.994	97	386802	90.704	ug/l		98
56) Ethyl methacrylate	10.853	69	690302	102.440	ug/l		96
57) 1,3-Dichloropropane	11.141	76	698638	93.206	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.141	63	1711029	487.433	ug/l		99
59) 2-Hexanone	11.176	43	2389312	518.272	ug/l		99
60) Dibromochloromethane	11.335	129	460237	94.953	ug/l		100
61) 1,2-Dibromoethane	11.447	107	413544	94.227	ug/l		99
64) Tetrachloroethene	11.082	164	322496	90.231	ug/l		97
65) Chlorobenzene	11.870	112	1141556	92.783	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.935	131	377142	93.562	ug/l		99
67) Ethyl Benzene	11.941	91	2030094	94.000	ug/l		99
68) m/p-Xylenes	12.047	106	1533978	189.570	ug/l		97
69) o-Xylene	12.376	106	741253	96.633	ug/l		98
70) Styrene	12.388	104	1262211	100.907	ug/l		99
71) Bromoform	12.559	173	299375	99.521	ug/l	#	98
73) Isopropylbenzene	12.676	105	1978907	92.826	ug/l		99
74) N-amyl acetate	12.488	43	604970	95.060	ug/l	#	89
75) 1,1,2,2-Tetrachloroethane	12.917	83	596827	89.923	ug/l		99
76) 1,2,3-Trichloropropane	12.970	75	560461m	94.724	ug/l		
77) Bromobenzene	12.959	156	436345	94.918	ug/l		98
78) n-propylbenzene	13.012	91	2451982	94.250	ug/l		98
79) 2-Chlorotoluene	13.100	91	1406851	94.825	ug/l		100
80) 1,3,5-Trimethylbenzene	13.147	105	1673751	94.536	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.717	75	222990	98.182	ug/l	#	79
82) 4-Chlorotoluene	13.200	91	1449779	90.321	ug/l		97
83) tert-Butylbenzene	13.417	119	1462710	92.484	ug/l		97
84) 1,2,4-Trimethylbenzene	13.459	105	1665233	94.006	ug/l		99
85) sec-Butylbenzene	13.594	105	2145645	92.338	ug/l		100
86) p-Isopropyltoluene	13.706	119	1752529	94.017	ug/l		100
87) 1,3-Dichlorobenzene	13.711	146	848480	92.456	ug/l		99
88) 1,4-Dichlorobenzene	13.788	146	874733	88.514	ug/l		99
89) n-Butylbenzene	14.035	91	1745999	94.560	ug/l		99
90) Hexachloroethane	14.311	117	337079	93.379	ug/l		96
91) 1,2-Dichlorobenzene	14.082	146	812199	91.813	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.694	75	134329	86.956	ug/l		94
93) 1,2,4-Trichlorobenzene	15.364	180	498767	93.098	ug/l		99
94) Hexachlorobutadiene	15.476	225	176342	88.389	ug/l		98
95) Naphthalene	15.611	128	1770584	96.473	ug/l		99
96) 1,2,3-Trichlorobenzene	15.811	180	468875	91.276	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088082.D
Acq On : 23 Oct 2025 11:41
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Quant Time: Oct 24 02:43:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:37:20 2025
Response via : Initial Calibration

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

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

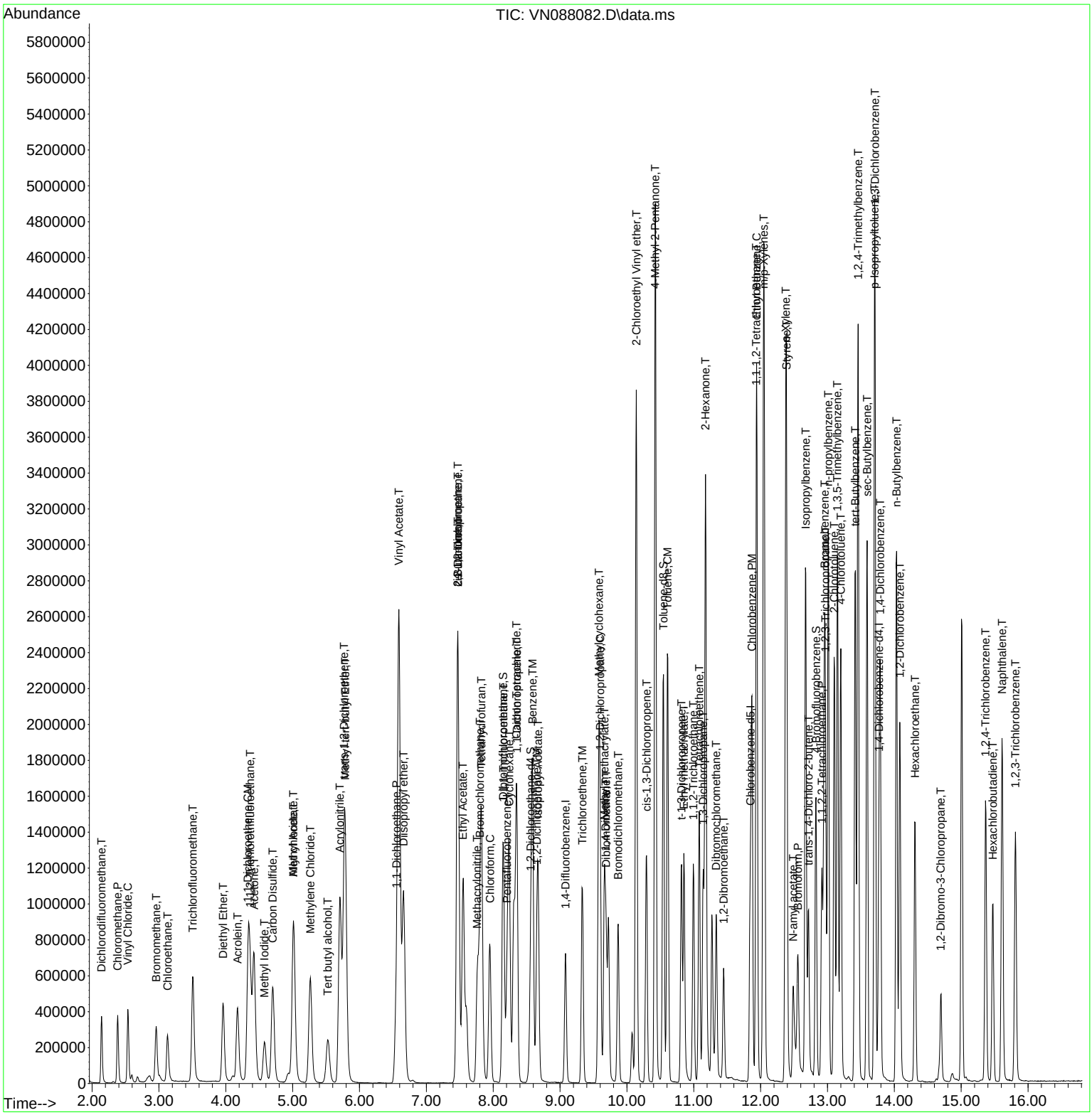
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Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

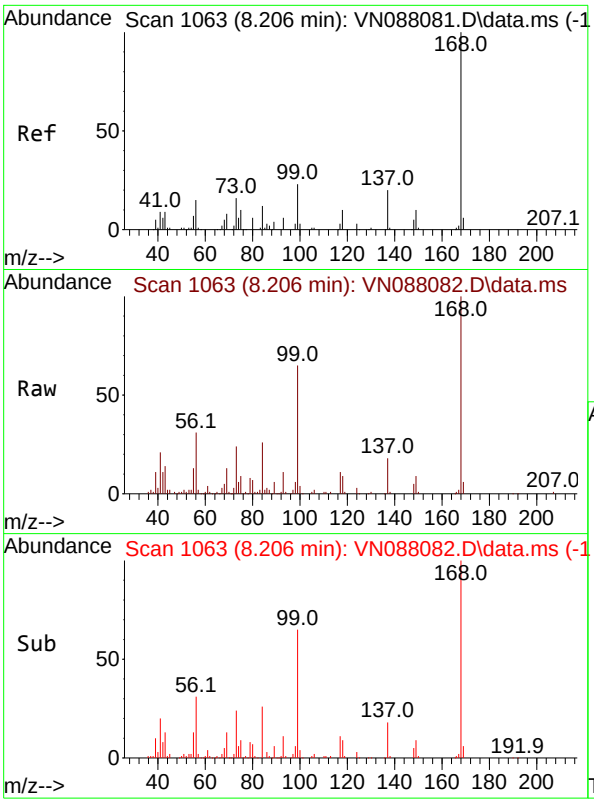
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Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:37:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

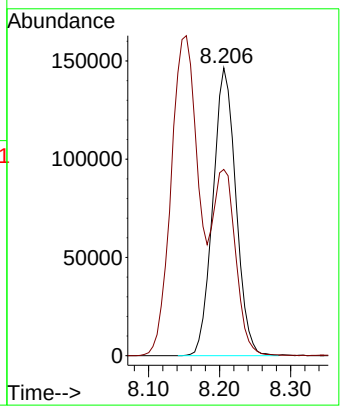




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:168 Resp: 32865

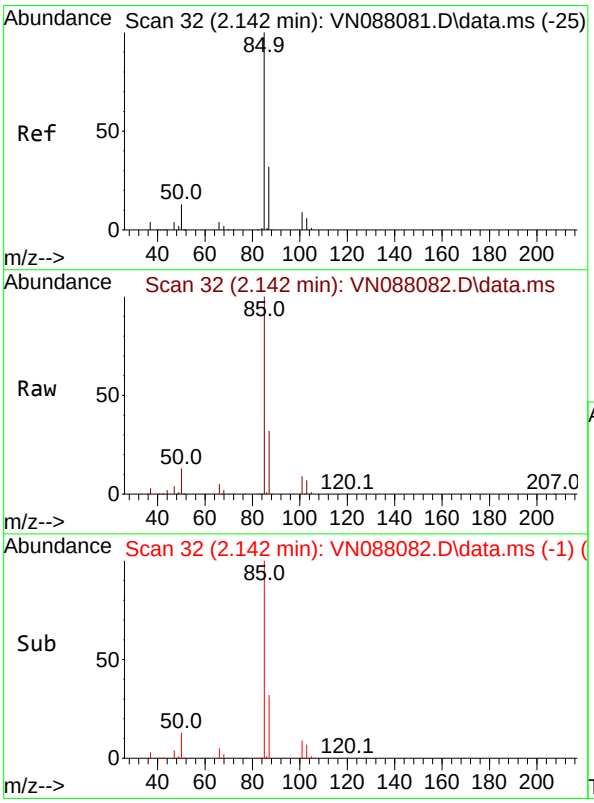
Ion	Ratio	Lower	Upper
168	100		
99	64.4	57.2	85.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

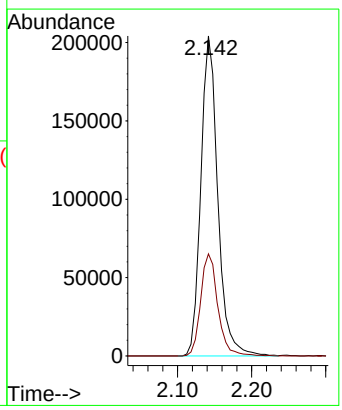
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

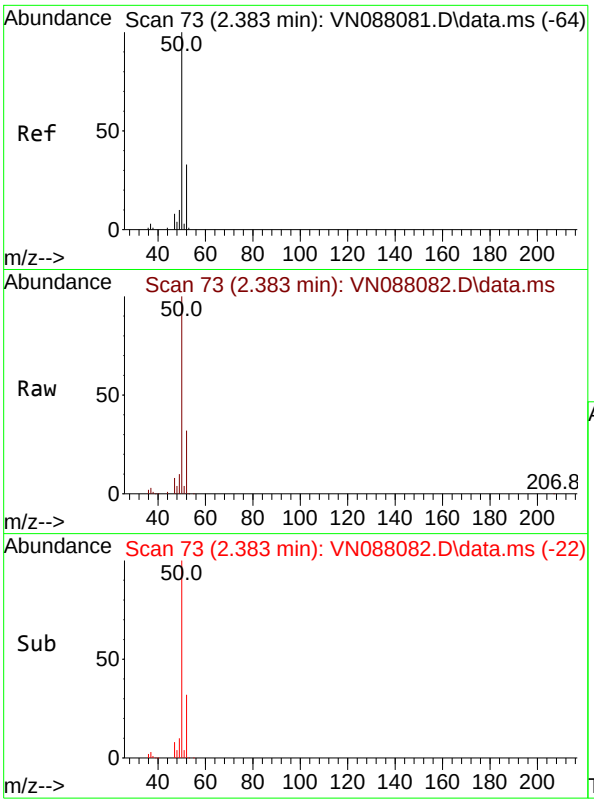


#2
Dichlorodifluoromethane
Concen: 87.364 ug/l
RT: 2.142 min Scan# 32
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 85 Resp: 323877

Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.6	49.8

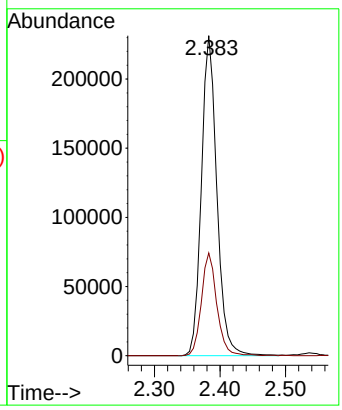




#3
Chloromethane
Concen: 87.199 ug/l
RT: 2.383 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 50 Resp: 38031

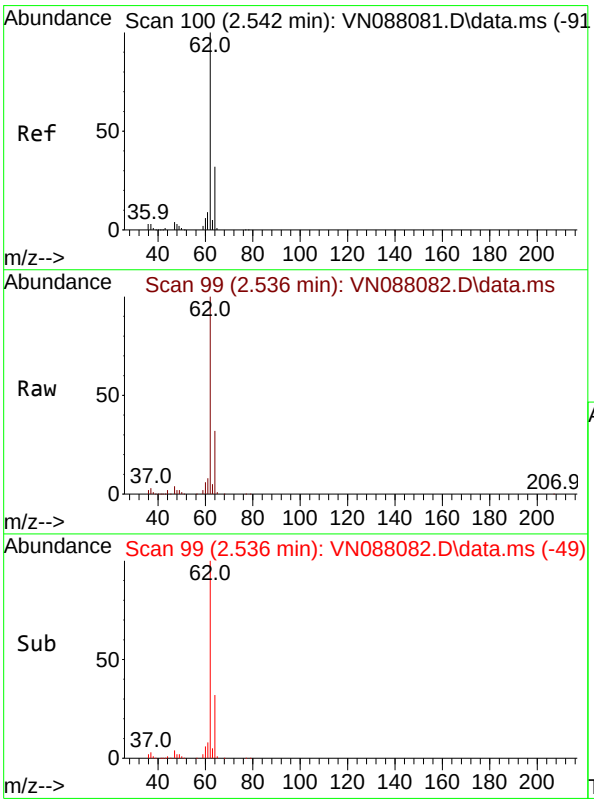
Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

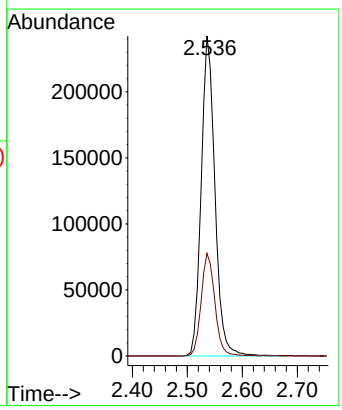
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

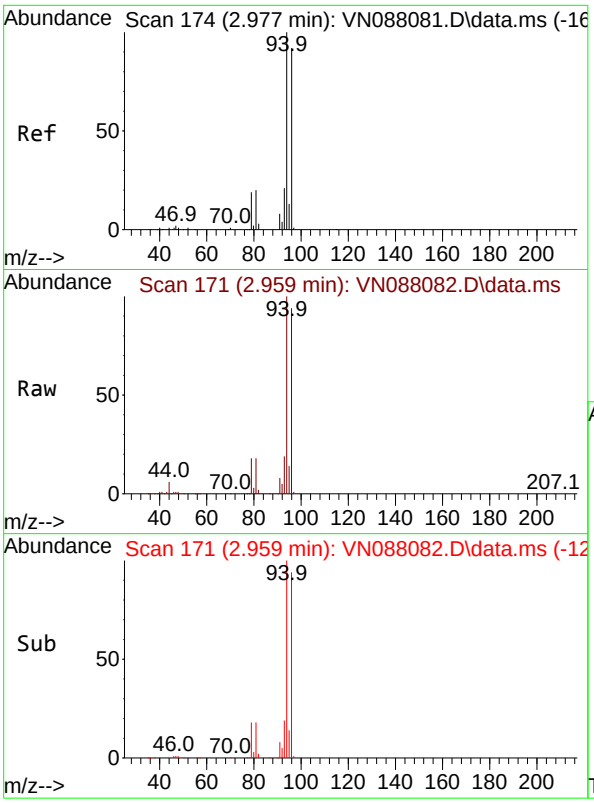


#4
Vinyl Chloride
Concen: 88.355 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 62 Resp: 419872

Ion	Ratio	Lower	Upper
62	100		
64	32.0	24.6	37.0

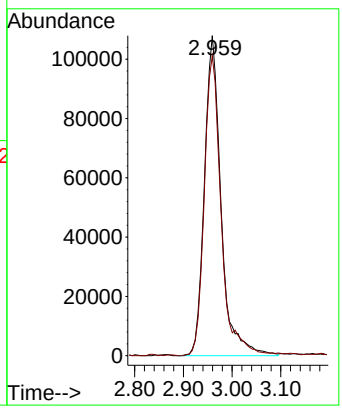




#5
Bromomethane
Concen: 89.983 ug/l
RT: 2.959 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 94 Resp: 25576

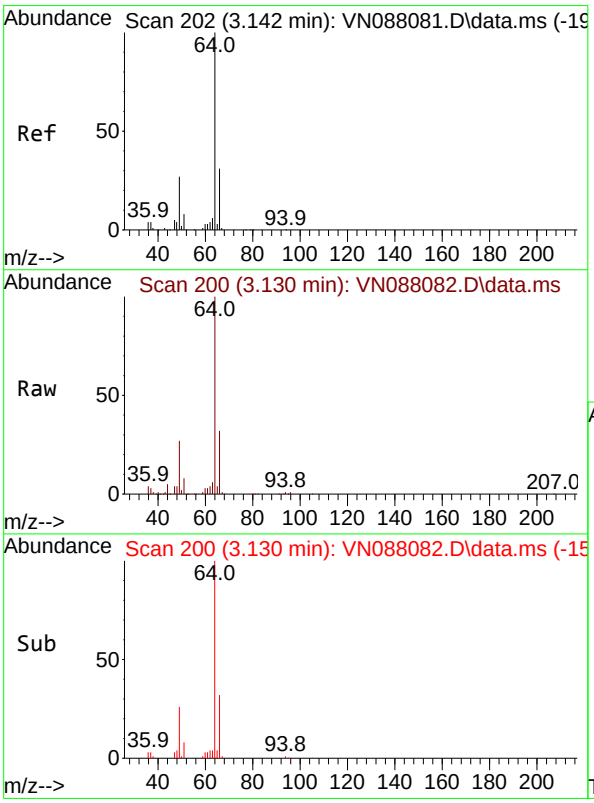
Ion	Ratio	Lower	Upper
94	100		
96	93.7	75.4	113.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

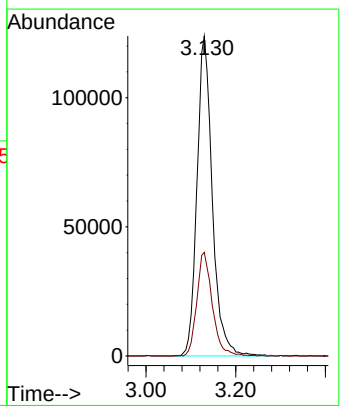
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

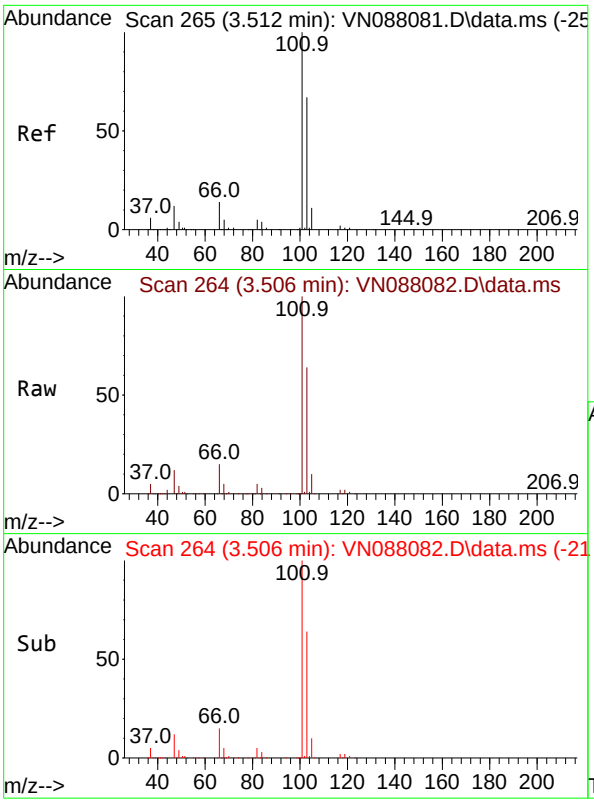


#6
Chloroethane
Concen: 85.765 ug/l
RT: 3.130 min Scan# 200
Delta R.T. -0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 64 Resp: 293645

Ion	Ratio	Lower	Upper
64	100		
66	32.4	26.2	39.2

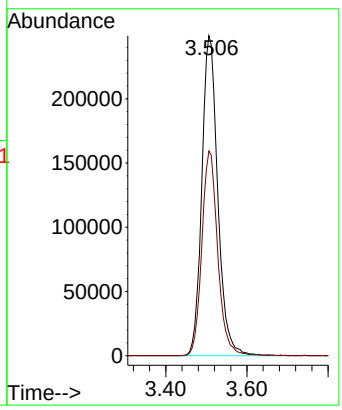




#7
Trichlorofluoromethane
Concen: 89.398 ug/l
RT: 3.506 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:101 Resp: 67757

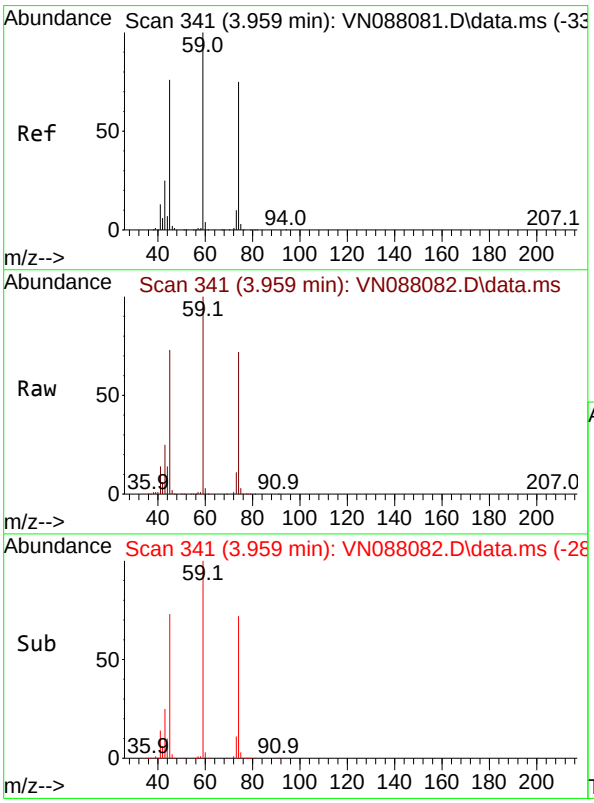
Ion	Ratio	Lower	Upper
101	100		
103	63.9	49.4	74.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

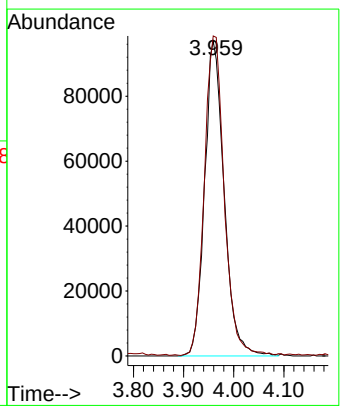
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

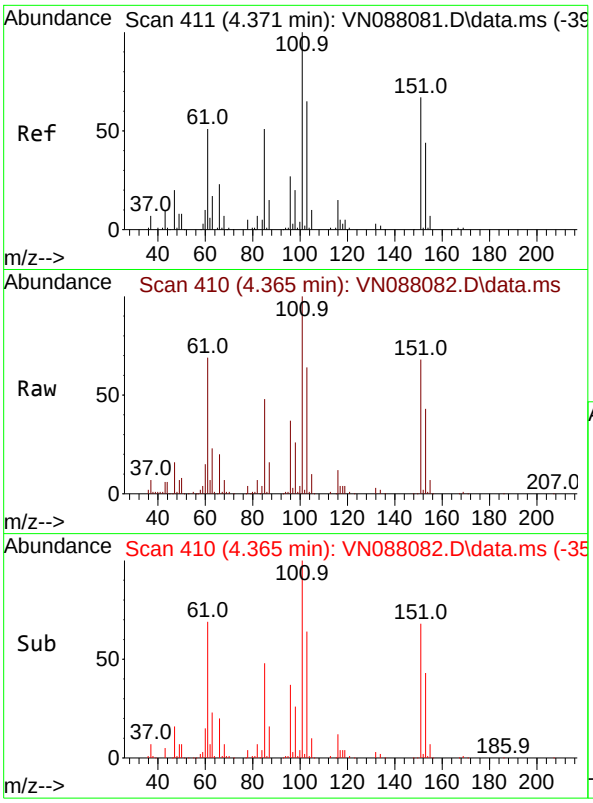


#8
Diethyl Ether
Concen: 93.266 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 74 Resp: 262726

Ion	Ratio	Lower	Upper
74	100		
45	103.0	50.6	151.9

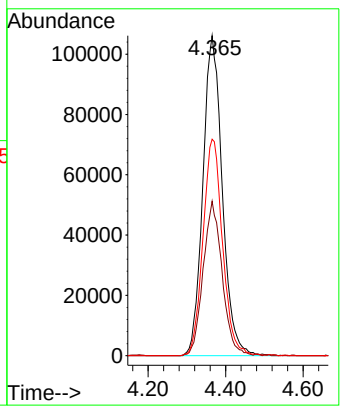




#9
1,1,2-Trichlorotrifluoroethane
Concen: 94.241 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:101 Resp: 36858

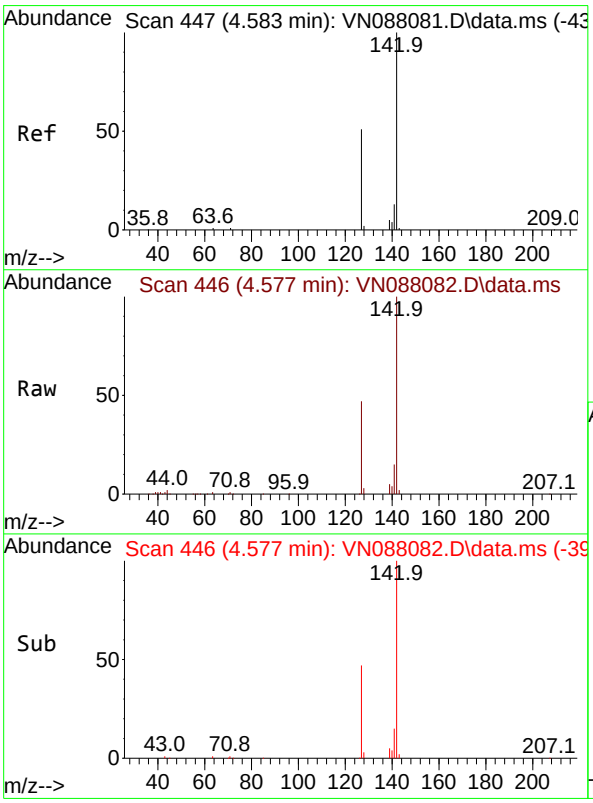
Ion	Ratio	Lower	Upper
101	100		
85	47.2	36.6	55.0
151	68.3	54.7	82.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

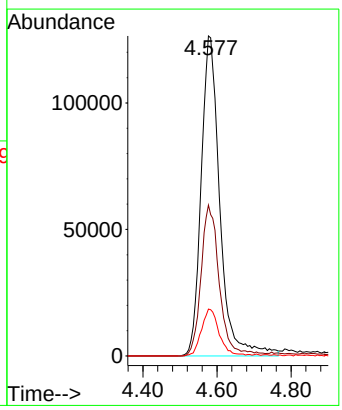
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

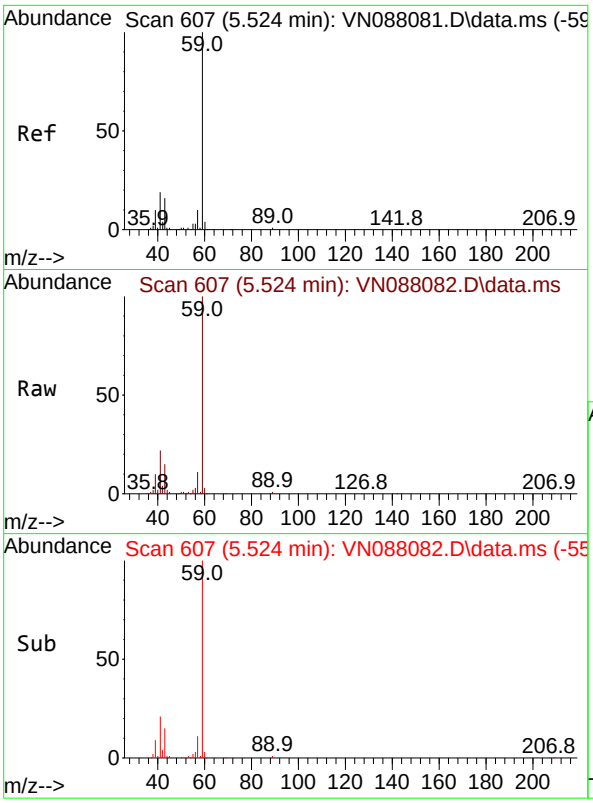


#10
Methyl Iodide
Concen: 109.415 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:142 Resp: 443084

Ion	Ratio	Lower	Upper
142	100		
127	47.1	38.0	57.0
141	14.6	12.0	18.0

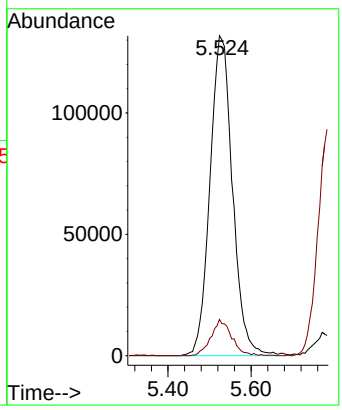




#11
Tert butyl alcohol
Concen: 507.281 ug/l
RT: 5.524 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 59 Resp: 49666

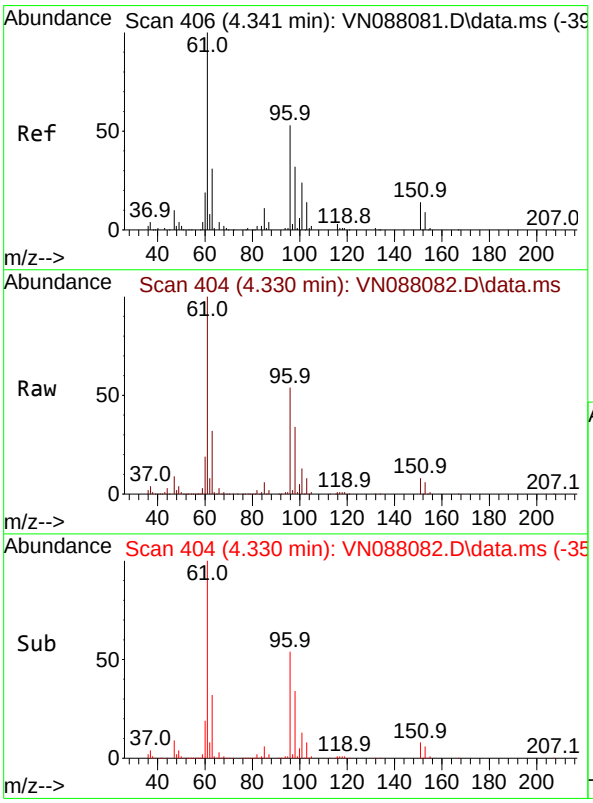
Ion	Ratio	Lower	Upper
59	100		
57	10.2	9.0	13.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

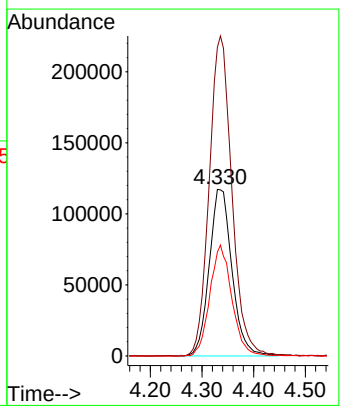
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

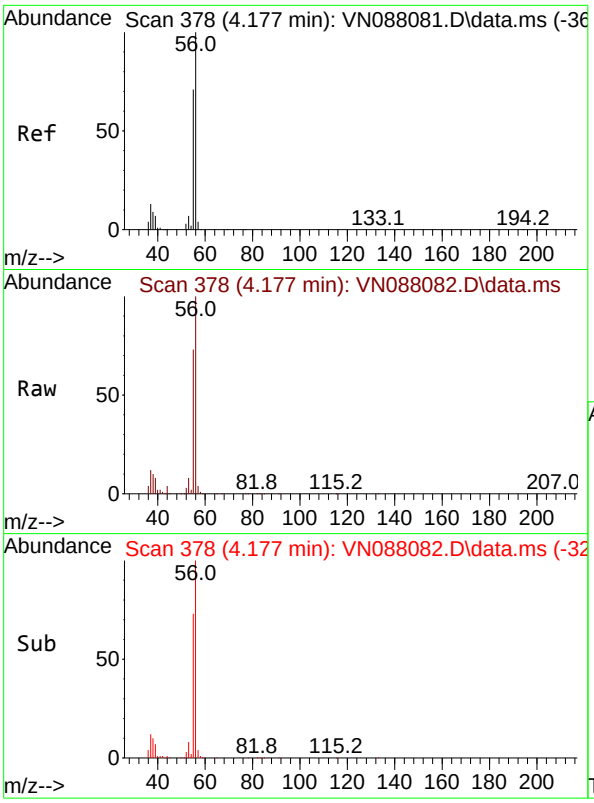


#12
1,1-Dichloroethene
Concen: 87.100 ug/l
RT: 4.330 min Scan# 404
Delta R.T. -0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 96 Resp: 359796

Ion	Ratio	Lower	Upper
96	100		
61	185.3	143.8	215.8
98	62.3	52.1	78.1

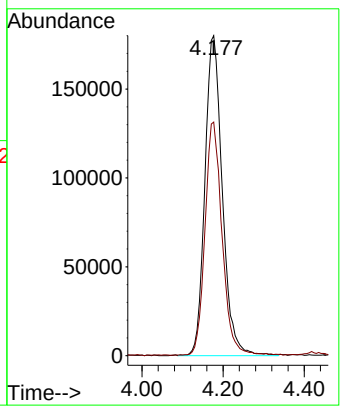




#13
Acrolein
Concen: 486.494 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 56 Resp: 53577

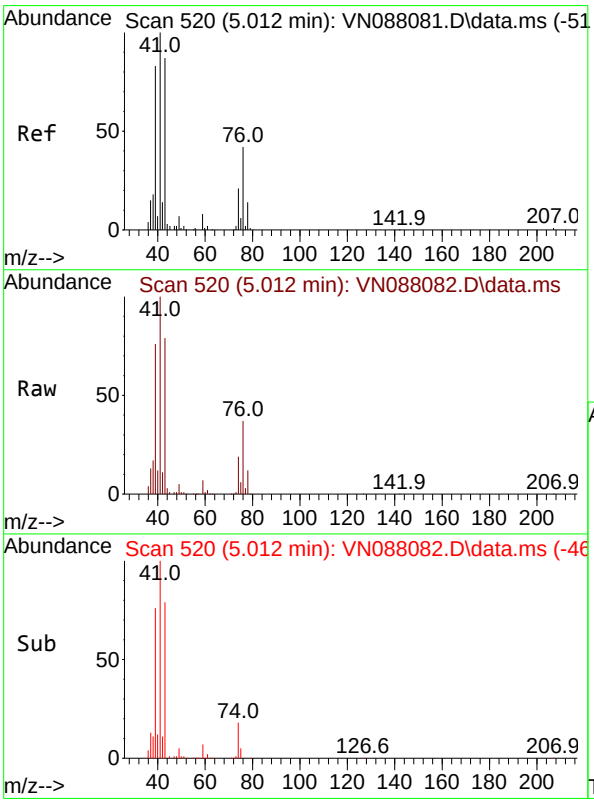
Ion	Ratio	Lower	Upper
56	100		
55	71.7	57.3	85.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

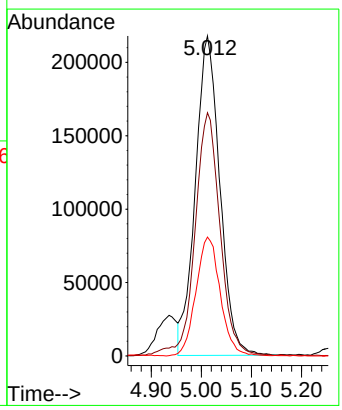
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

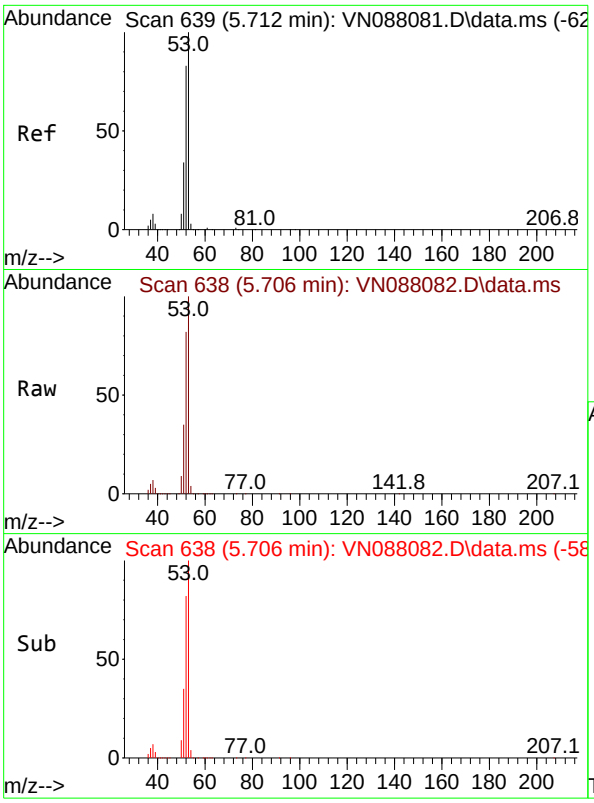


#14
Allyl chloride
Concen: 102.372 ug/l
RT: 5.012 min Scan# 520
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 41 Resp: 739017

Ion	Ratio	Lower	Upper
41	100		
39	77.7	63.9	95.9
76	37.0	28.1	42.1

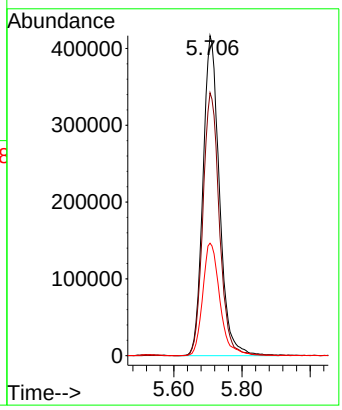




#15
Acrylonitrile
Concen: 524.363 ug/l
RT: 5.706 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 53 Resp: 139846

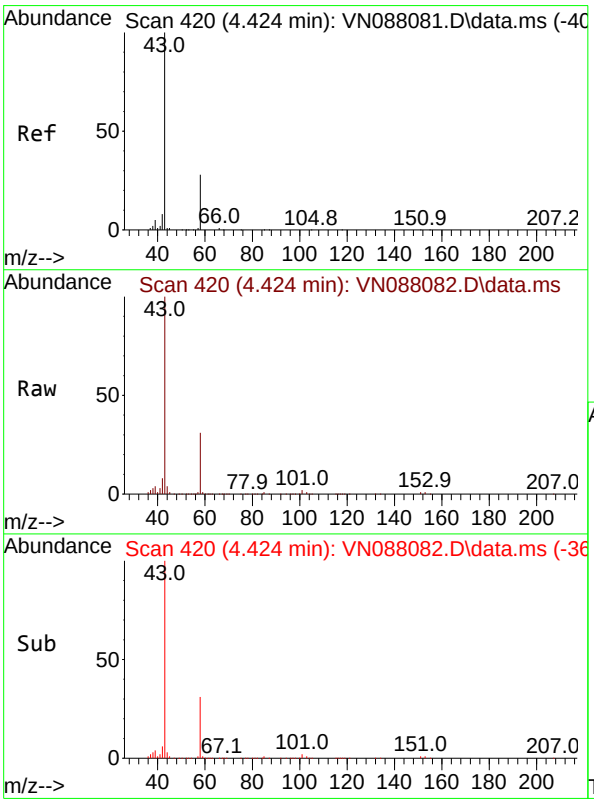
Ion	Ratio	Lower	Upper
53	100		
52	82.1	67.6	101.4
51	36.8	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

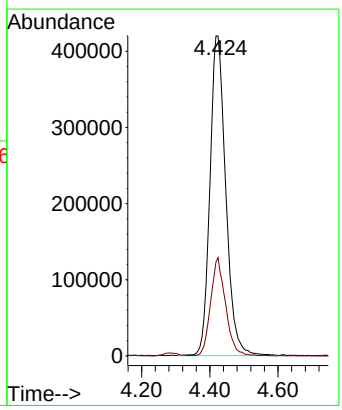
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

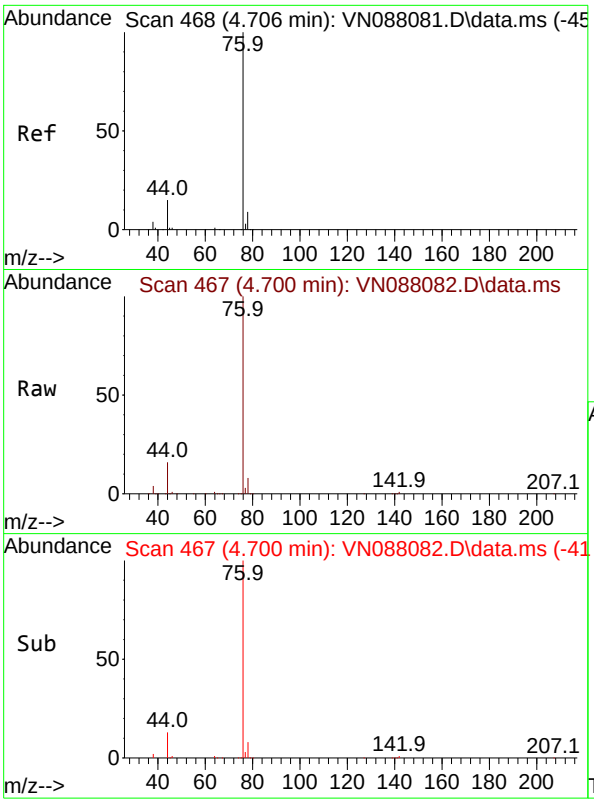


#16
Acetone
Concen: 473.573 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 43 Resp: 1352111

Ion	Ratio	Lower	Upper
43	100		
58	30.7	22.6	33.8

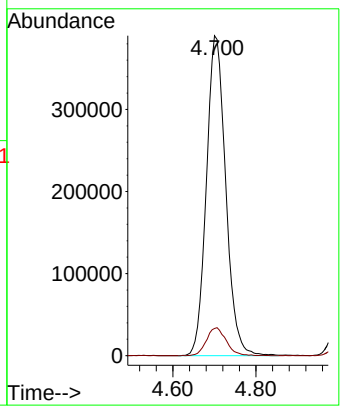




#17
Carbon Disulfide
Concen: 100.343 ug/l
RT: 4.700 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 76 Resp: 126000

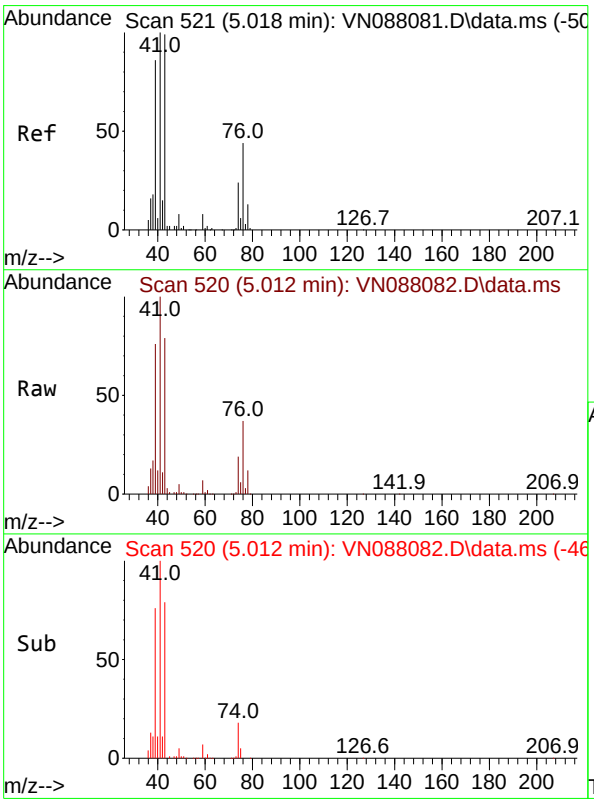
Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.6	11.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

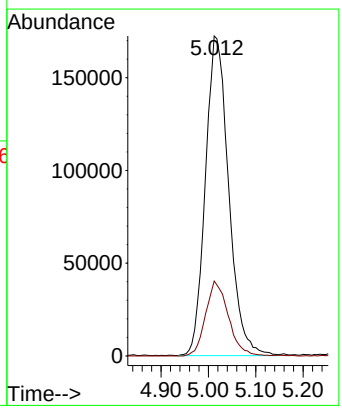
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

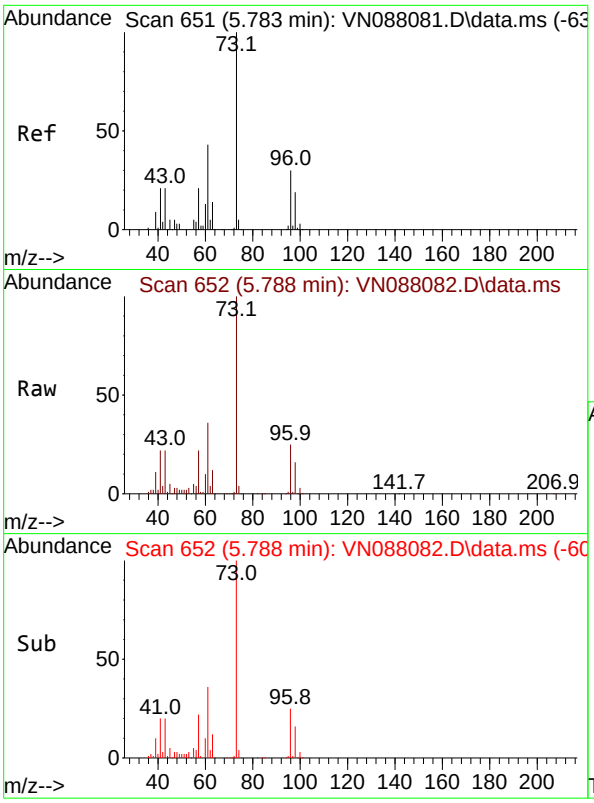


#18
Methyl Acetate
Concen: 100.725 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 43 Resp: 588757

Ion	Ratio	Lower	Upper
43	100		
74	22.9	17.6	26.4

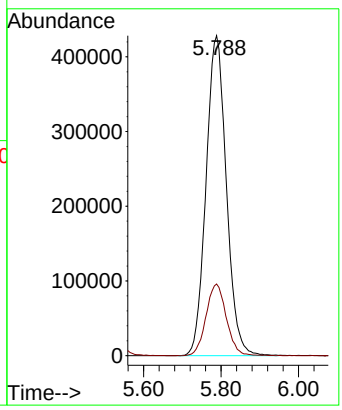




#19
Methyl tert-butyl Ether
Concen: 102.672 ug/l
RT: 5.788 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 73 Resp: 155757

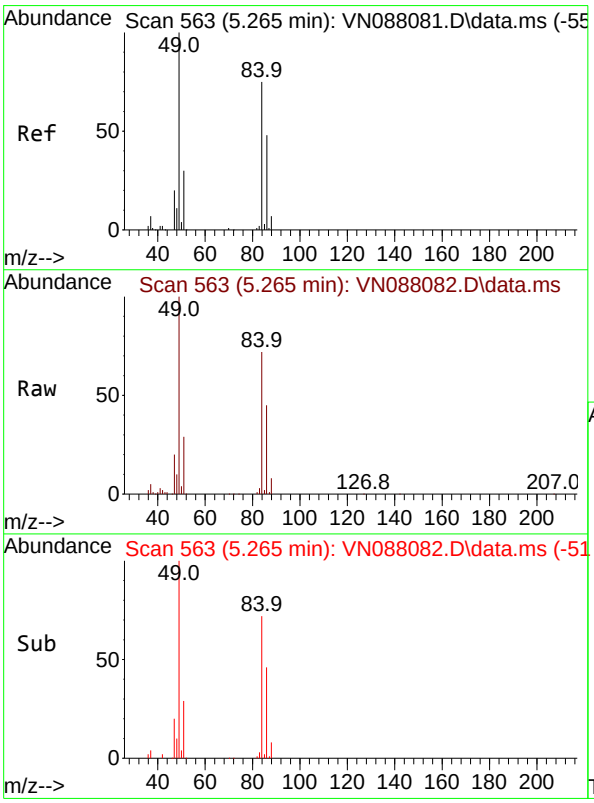
Ion	Ratio	Lower	Upper
73	100		
57	22.3	18.4	27.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

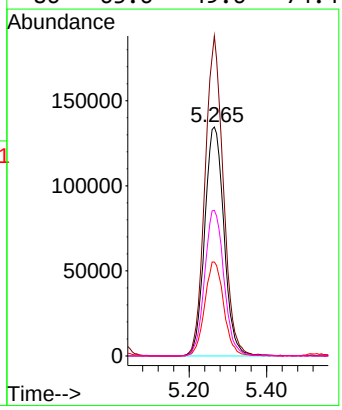
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

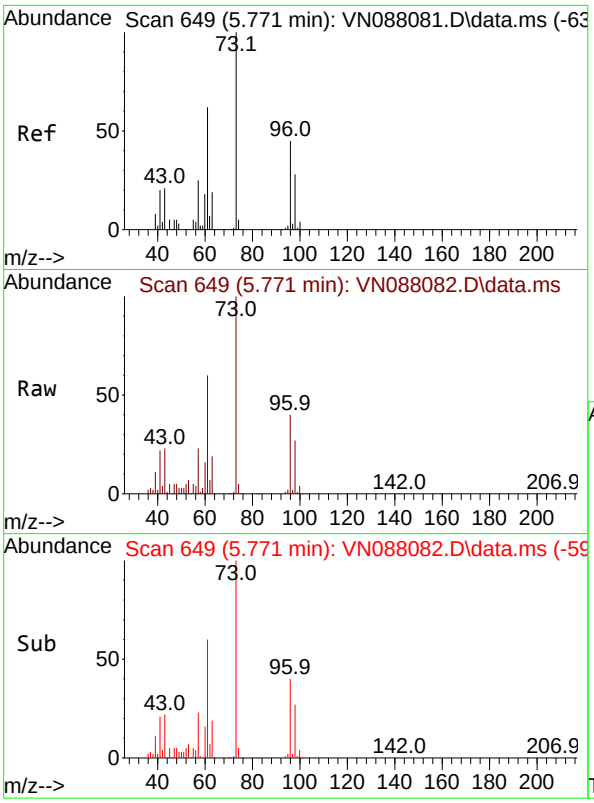


#20
Methylene Chloride
Concen: 103.852 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 84 Resp: 465262

Ion	Ratio	Lower	Upper
84	100		
49	139.8	103.4	155.2
51	41.0	33.8	50.8
86	63.6	49.6	74.4

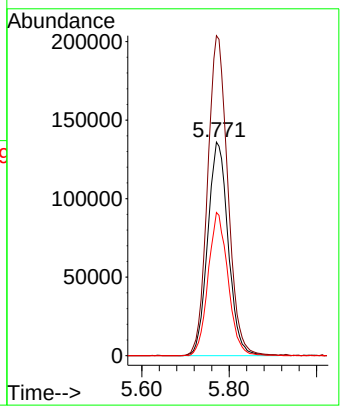




#21
trans-1,2-Dichloroethene
Concen: 96.858 ug/l
RT: 5.771 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 96 Resp: 44241

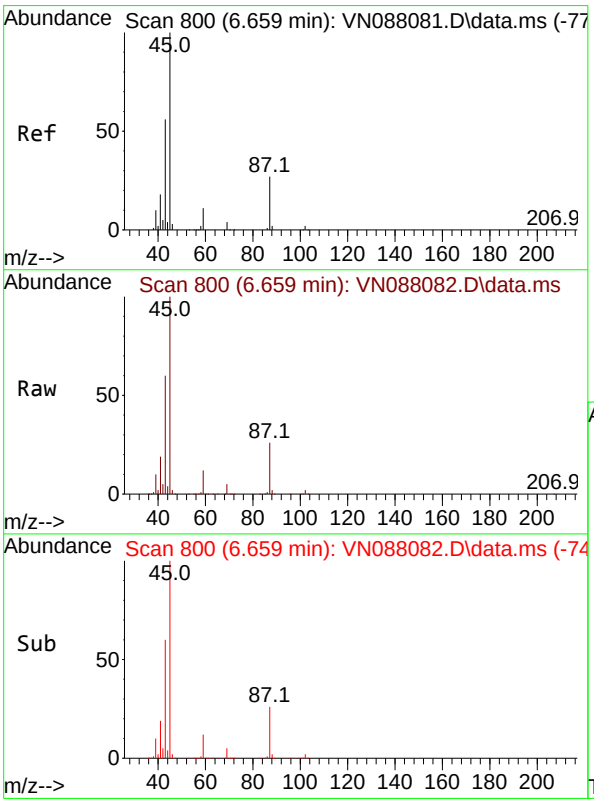
Ion	Ratio	Lower	Upper
96	100		
61	149.8	118.0	177.0
98	67.0	50.0	75.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

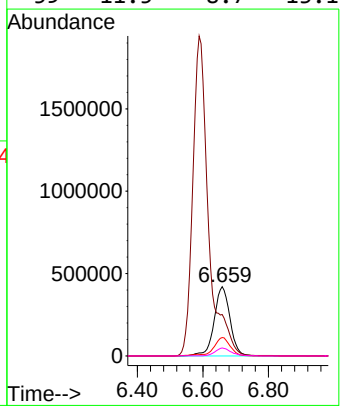
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

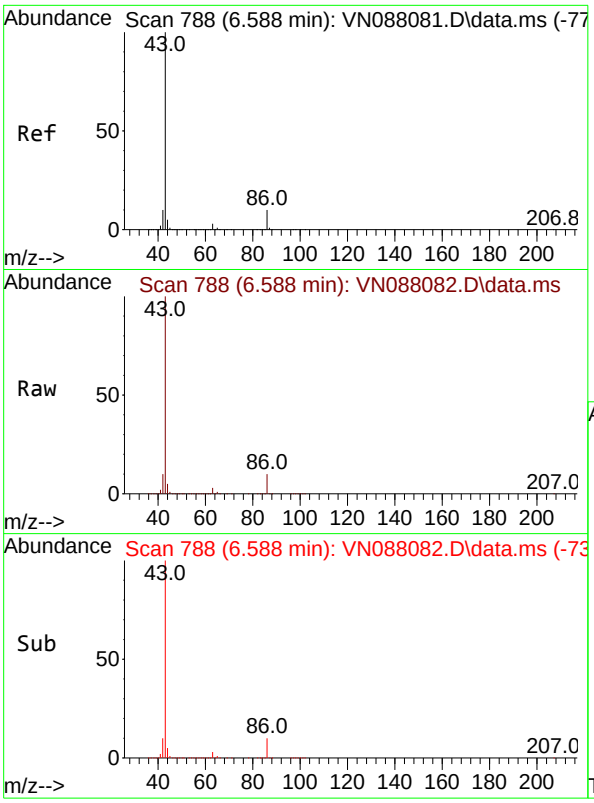


#22
Diisopropyl ether
Concen: 92.284 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 45 Resp: 1405211

Ion	Ratio	Lower	Upper
45	100		
43	59.3	47.7	71.5
87	26.5	21.4	32.0
59	11.5	8.7	13.1

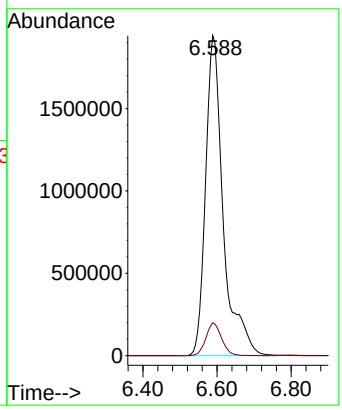




#23
Vinyl Acetate
Concen: 469.193 ug/l
RT: 6.588 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 43 Resp: 643552

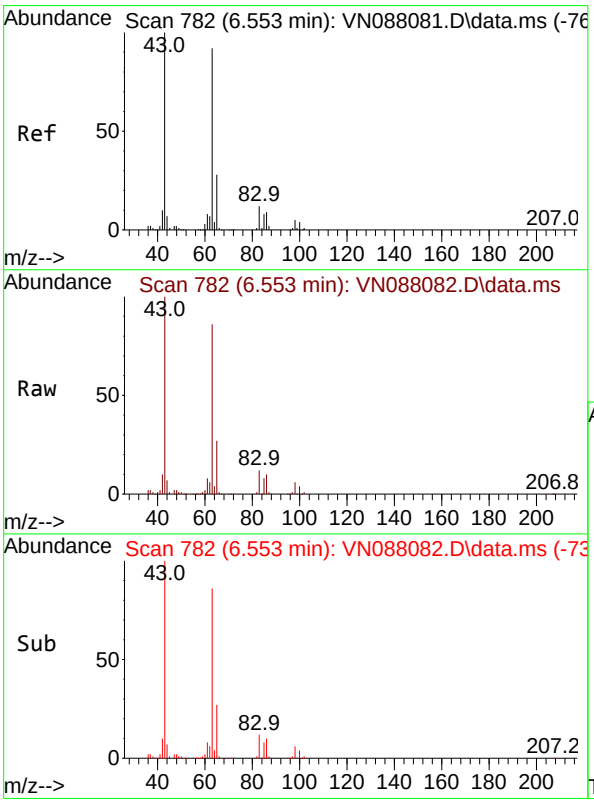
Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

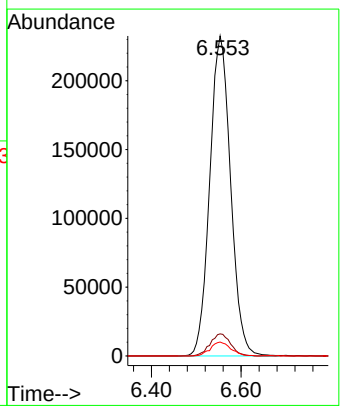
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

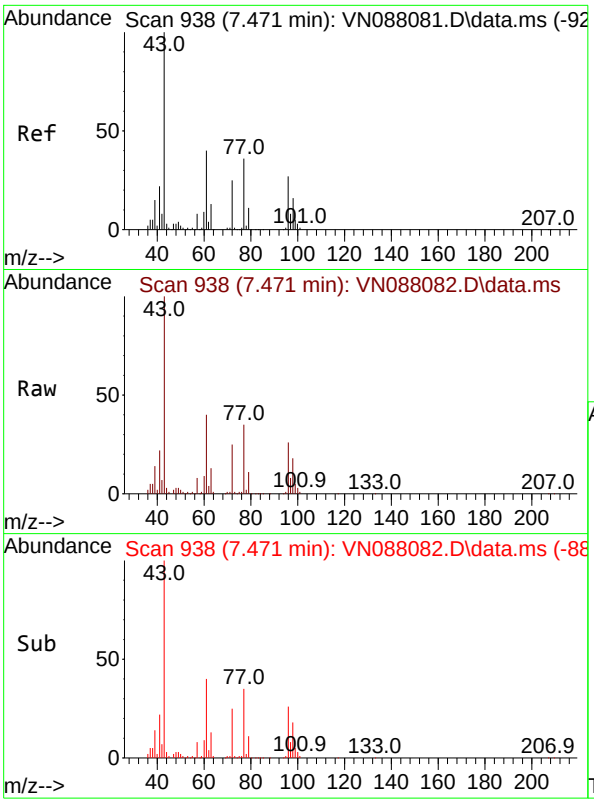


#24
1,1-Dichloroethane
Concen: 88.975 ug/l
RT: 6.553 min Scan# 782
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 63 Resp: 750482

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.8	11.4
100	4.3	2.0	6.0

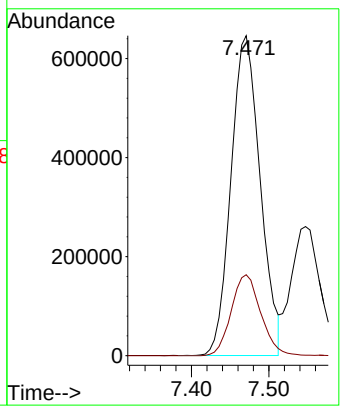




#25
2-Butanone
Concen: 455.416 ug/l
RT: 7.471 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 43 Resp: 169592

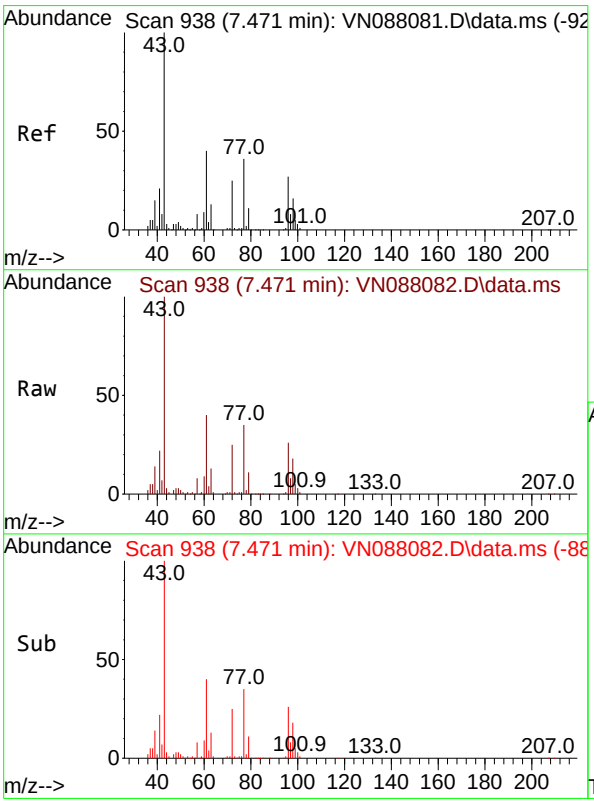
Ion	Ratio	Lower	Upper
43	100		
72	25.3	19.9	29.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

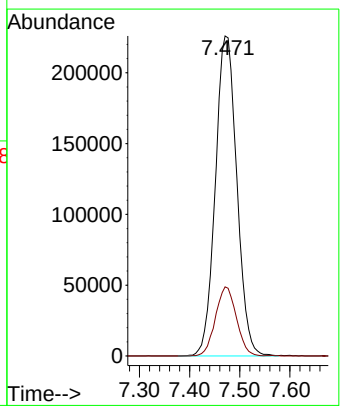
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

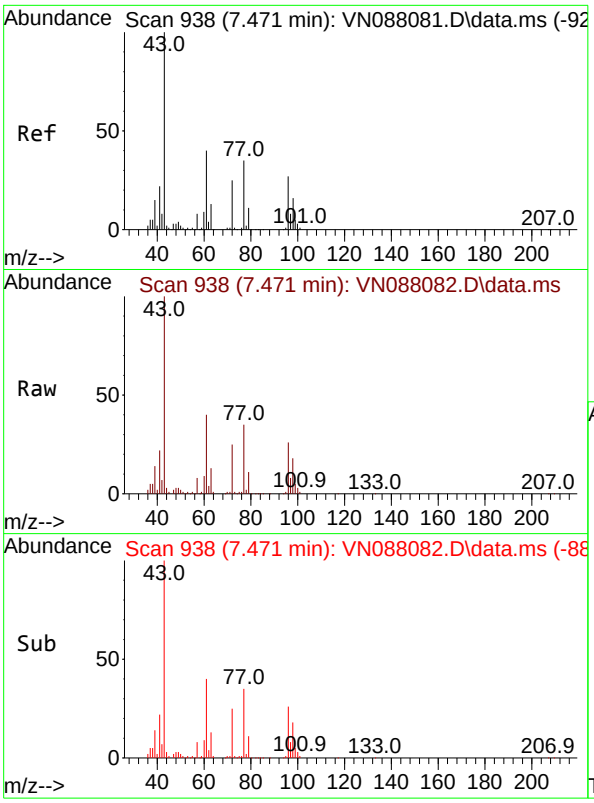


#26
2,2-Dichloropropane
Concen: 87.699 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 77 Resp: 672222

Ion	Ratio	Lower	Upper
77	100		
97	21.1	10.9	32.7

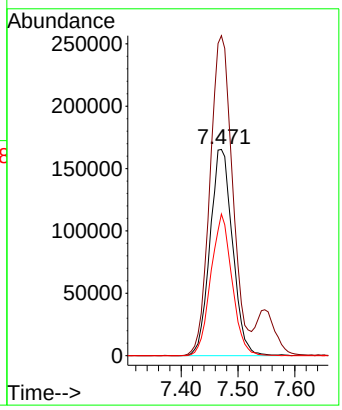




#27
cis-1,2-Dichloroethene
Concen: 87.431 ug/l
RT: 7.471 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 96 Resp: 45637

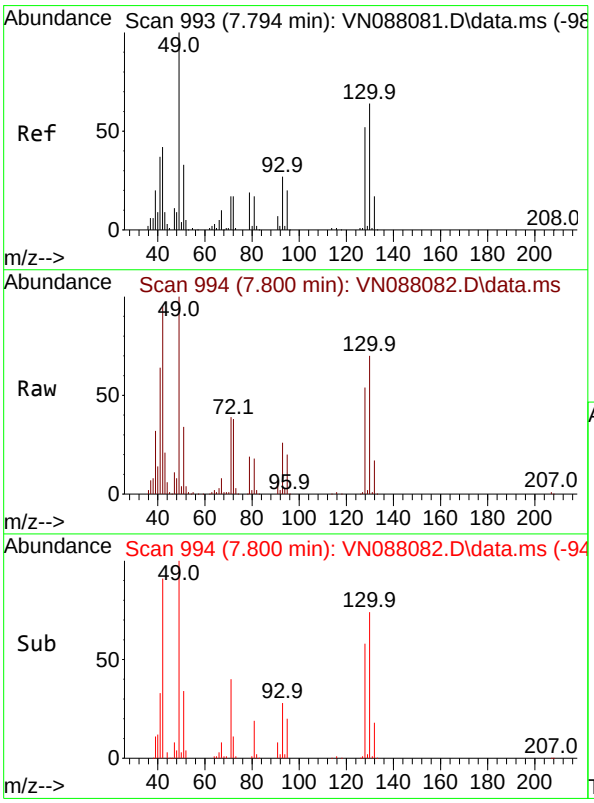
Ion	Ratio	Lower	Upper
96	100		
61	155.7	0.0	301.8
98	64.5	0.0	126.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

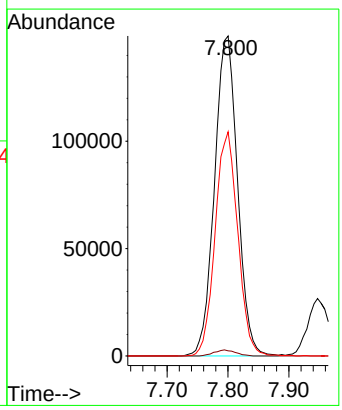
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

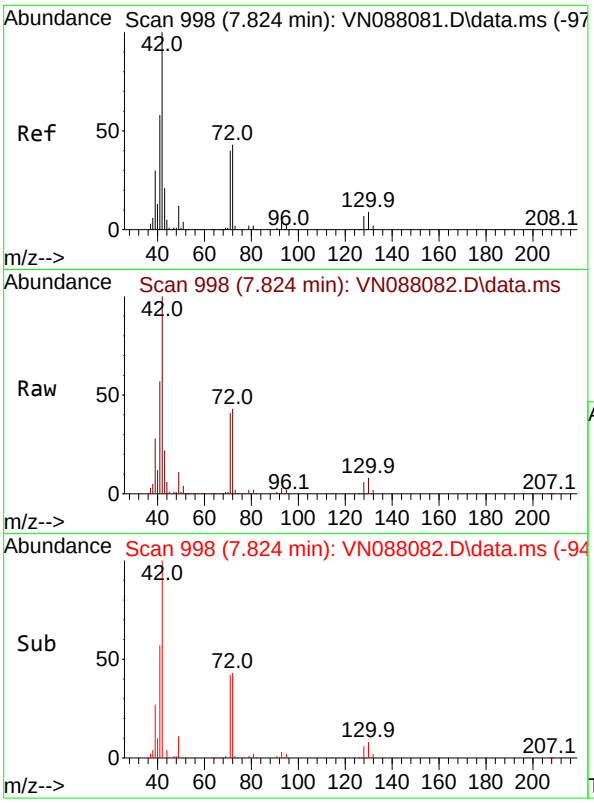


#28
Bromochloromethane
Concen: 98.372 ug/l
RT: 7.800 min Scan# 994
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 49 Resp: 392057

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.0
130	68.9	53.1	79.7





#29
Tetrahydrofuran
Concen: 456.222 ug/l
RT: 7.824 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

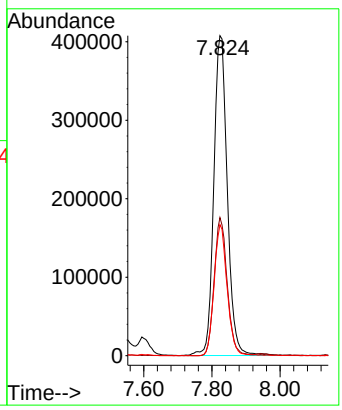
Tgt Ion: 42 Resp: 111871

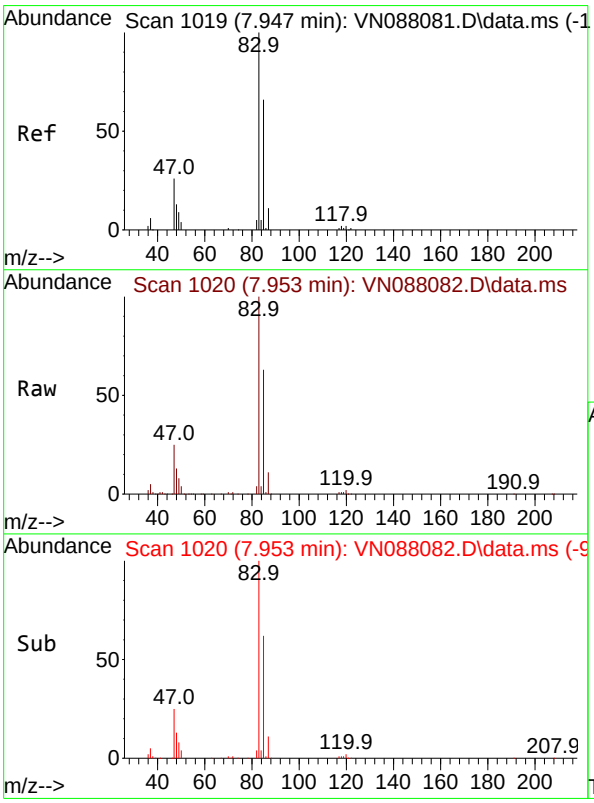
Ion	Ratio	Lower	Upper
42	100		
72	41.6	33.7	50.5
71	39.5	31.9	47.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

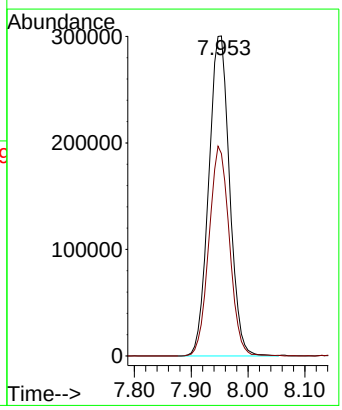


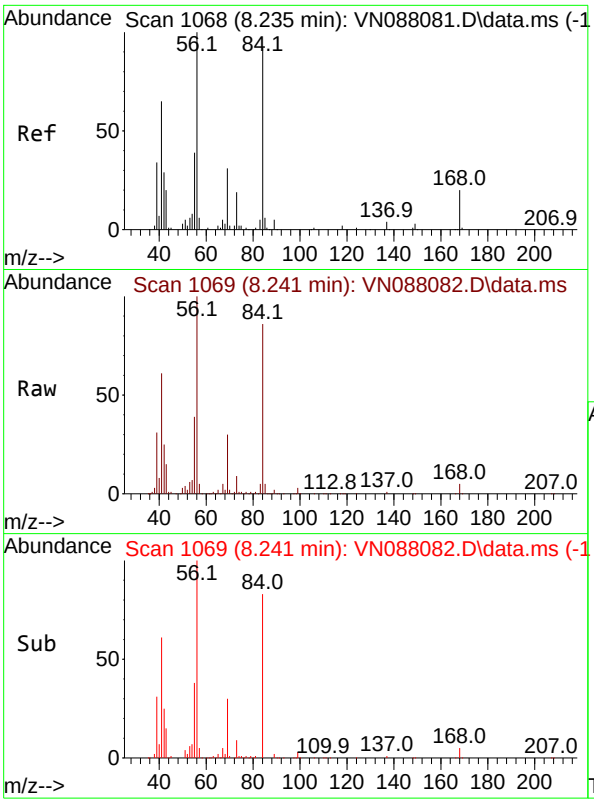


#30
Chloroform
Concen: 90.626 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 83 Resp: 763656

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.7	76.1

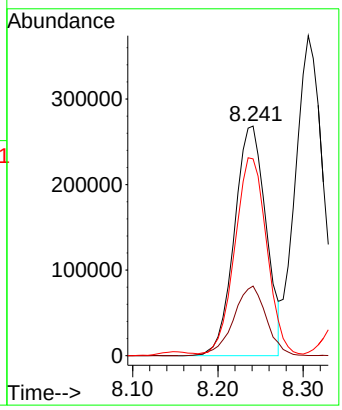




#31
Cyclohexane
Concen: 87.146 ug/l
RT: 8.241 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 56 Resp: 69325

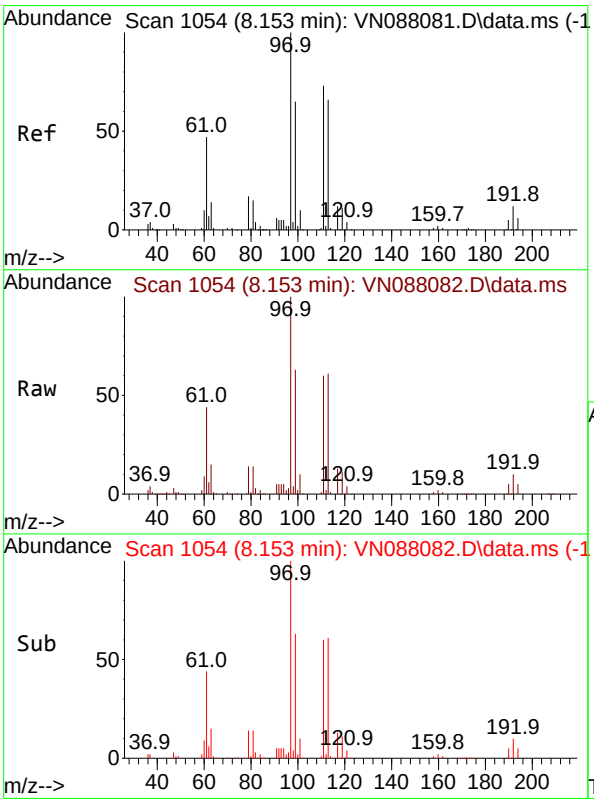
Ion	Ratio	Lower	Upper
56	100		
69	30.3	23.7	35.5
84	84.0	64.7	97.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

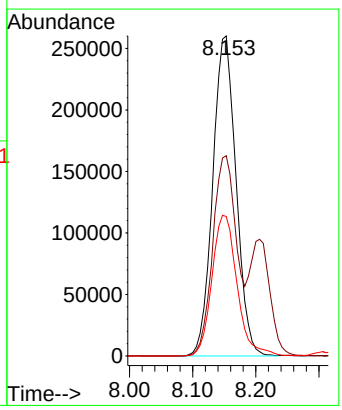
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

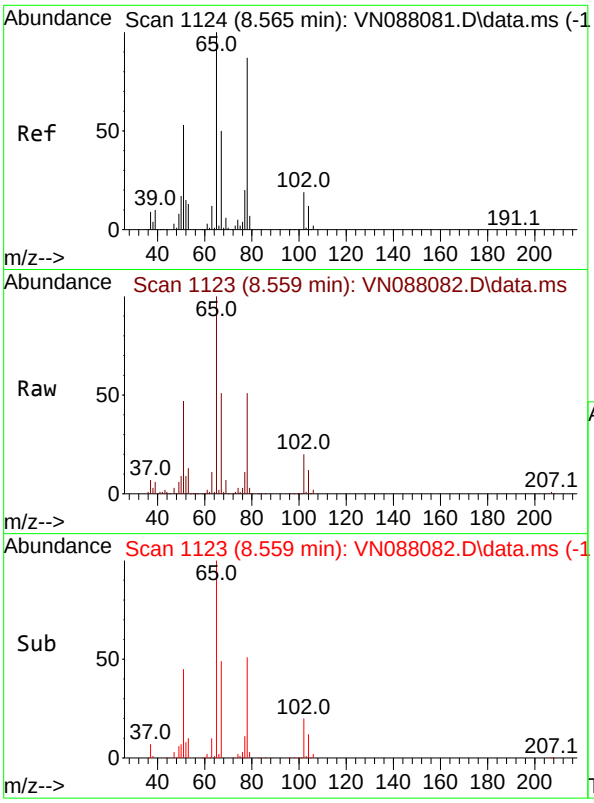


#32
1,1,1-Trichloroethane
Concen: 88.836 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 97 Resp: 666712

Ion	Ratio	Lower	Upper
97	100		
99	64.6	52.2	78.2
61	47.5	41.2	61.8

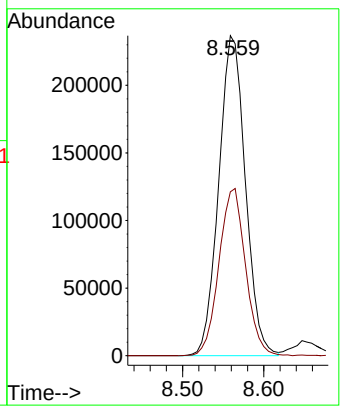




#33
1,2-Dichloroethane-d4
Concen: 95.083 ug/l
RT: 8.559 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 65 Resp: 54036

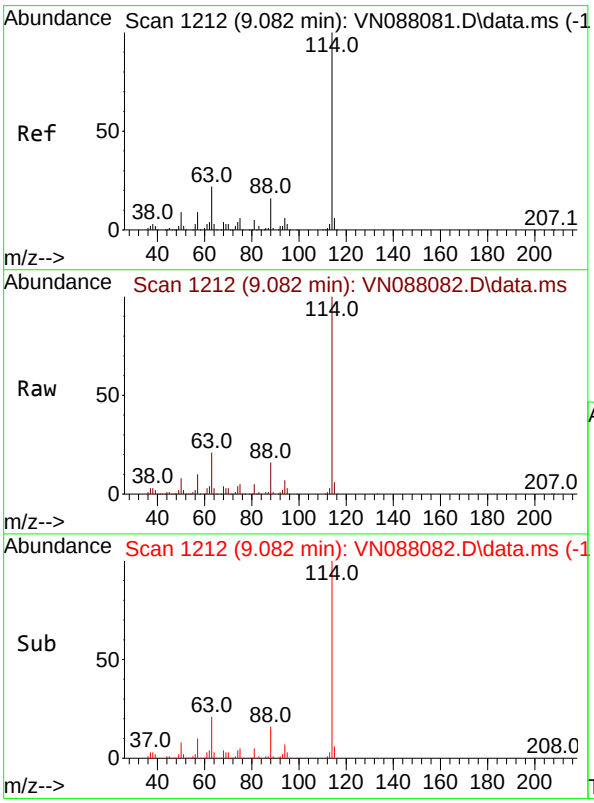
Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	100.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

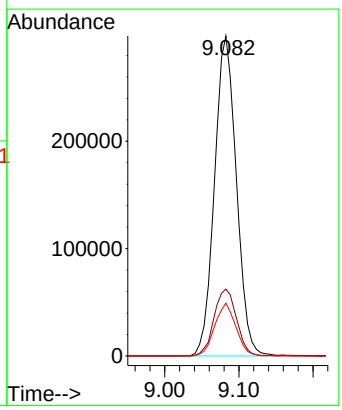
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

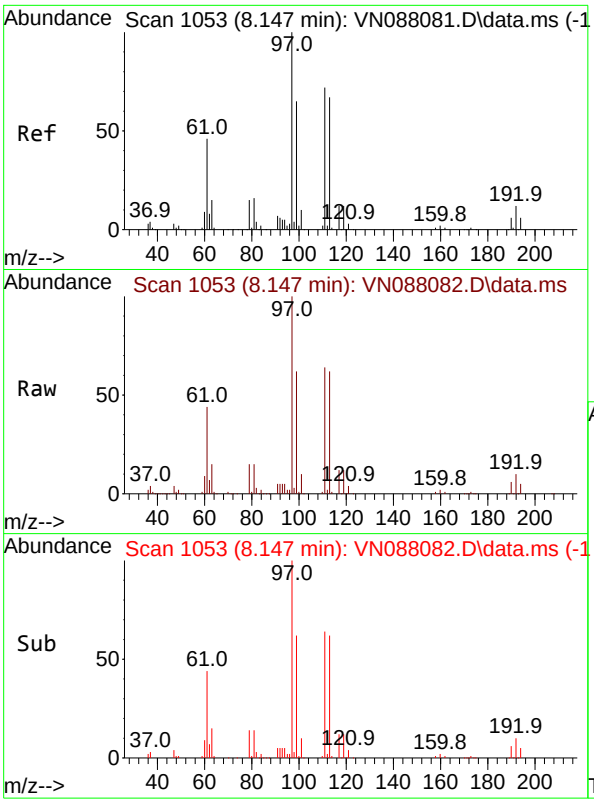


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:114 Resp: 610283

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	45.2
88	16.5	0.0	33.4

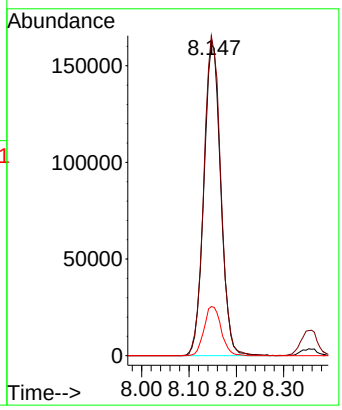




#35
Dibromofluoromethane
Concen: 97.454 ug/l
RT: 8.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:113 Resp: 39955

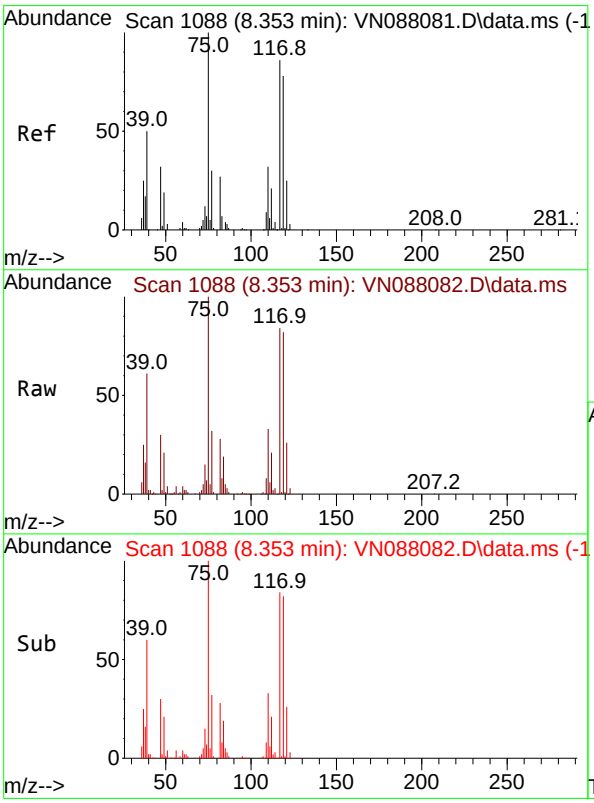
Ion	Ratio	Lower	Upper
113	100		
111	102.7	82.8	124.2
192	16.0	12.8	19.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

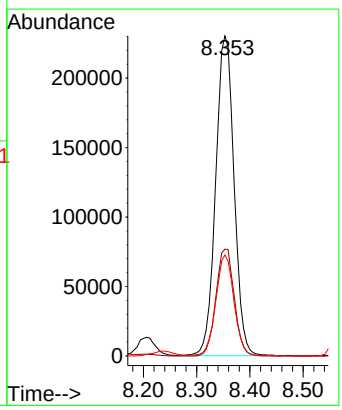
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

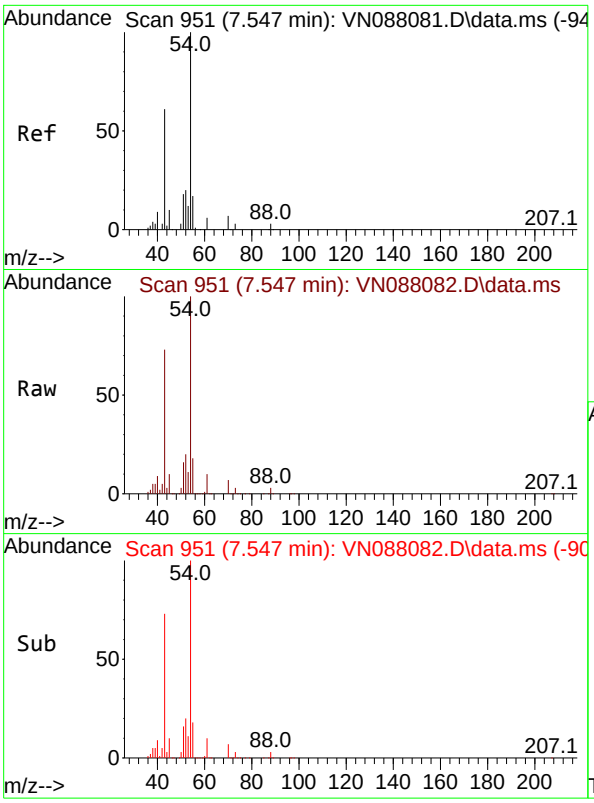


#36
1,1-Dichloropropene
Concen: 92.365 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 75 Resp: 552930

Ion	Ratio	Lower	Upper
75	100		
110	33.3	15.9	47.6
77	31.0	24.4	36.6

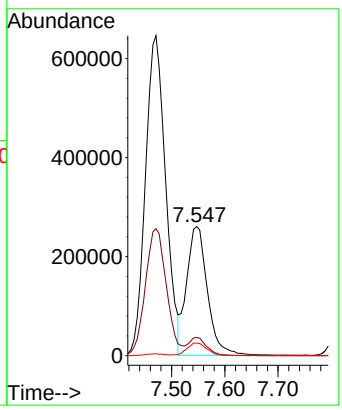




#37
Ethyl Acetate
Concen: 91.855 ug/l
RT: 7.547 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 43 Resp: 70662

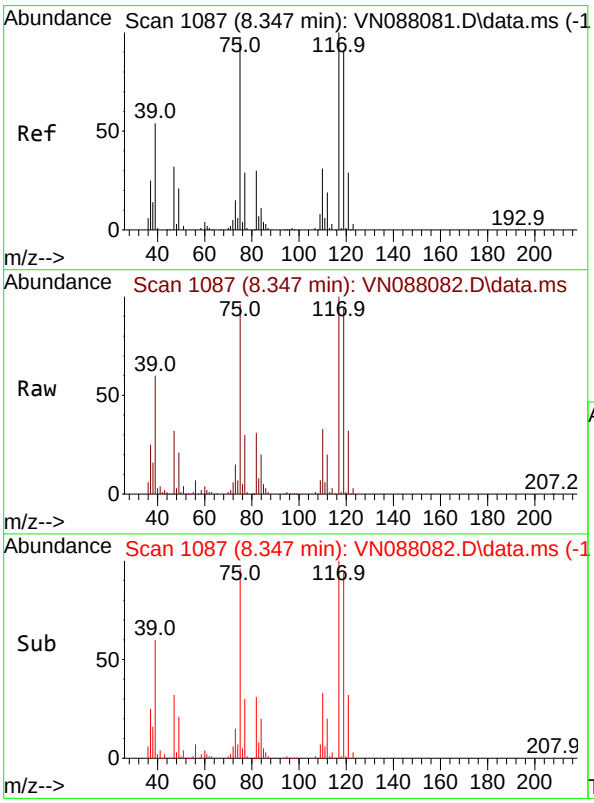
Ion	Ratio	Lower	Upper
43	100		
61	12.4	9.3	13.9
70	9.5	7.0	10.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

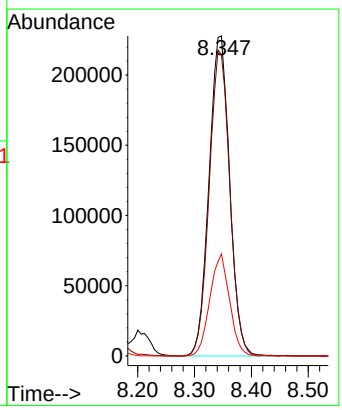
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

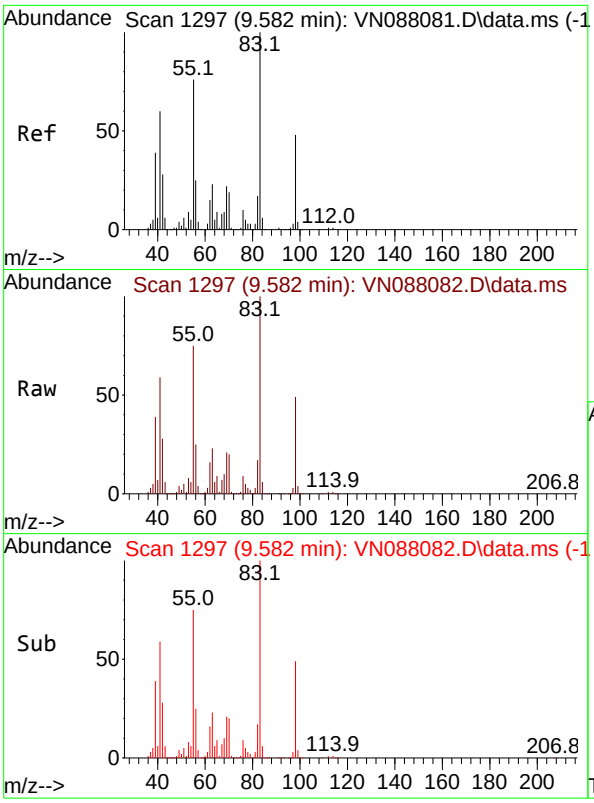


#38
Carbon Tetrachloride
Concen: 92.723 ug/l
RT: 8.347 min Scan# 1087
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:117 Resp: 573295

Ion	Ratio	Lower	Upper
117	100		
119	94.1	79.0	118.6
121	31.8	25.0	37.6





#39
Methylcyclohexane
Concen: 91.622 ug/l
RT: 9.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

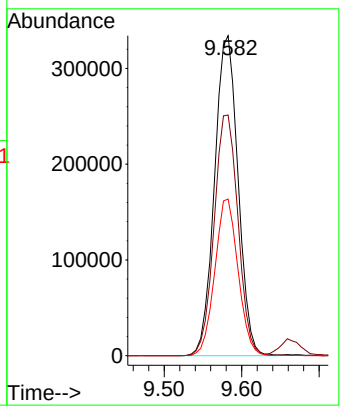
Tgt Ion: 83 Resp: 70500

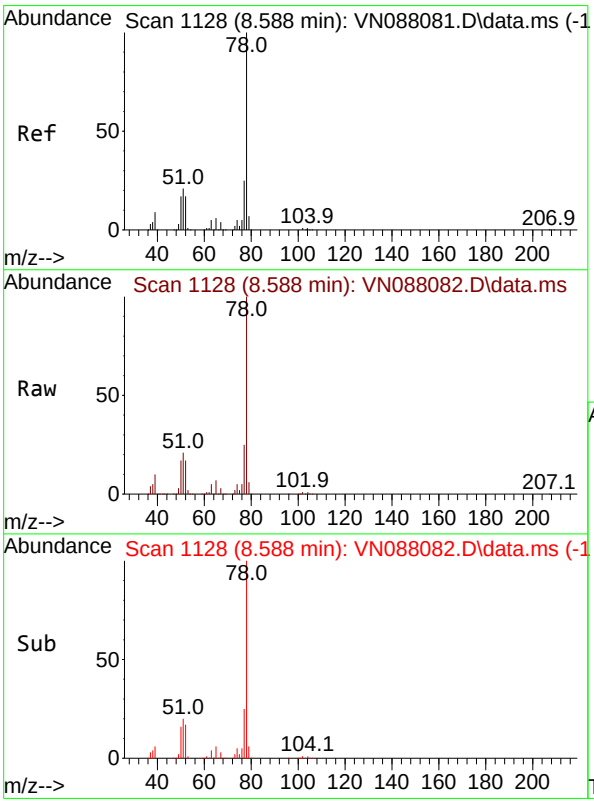
Ion	Ratio	Lower	Upper
83	100		
55	75.2	64.6	96.8
98	49.0	38.4	57.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

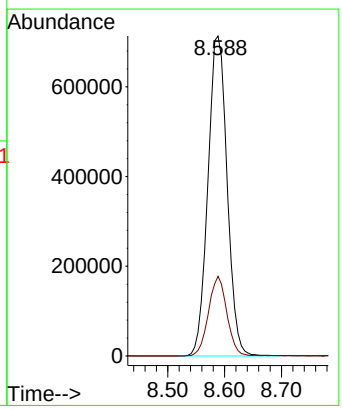


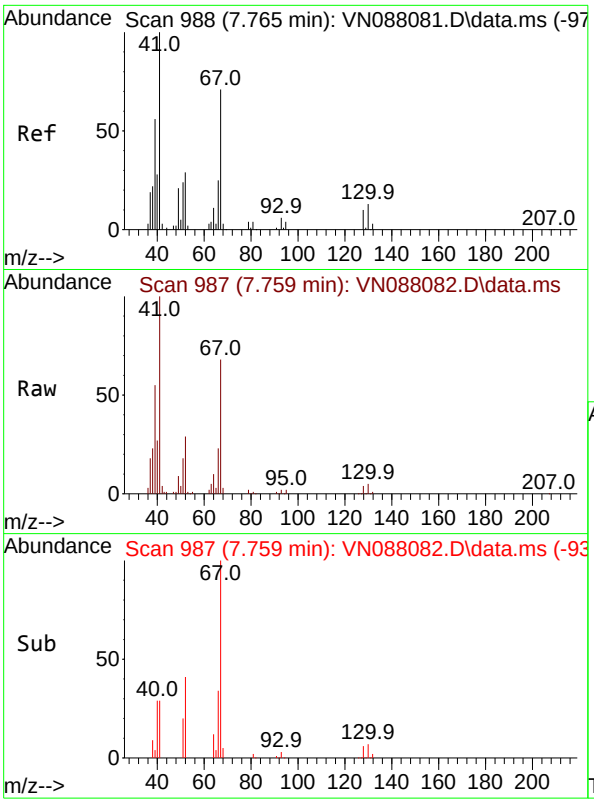


#40
Benzene
Concen: 91.888 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 78 Resp: 1675215

Ion	Ratio	Lower	Upper
78	100		
77	24.9	19.7	29.5

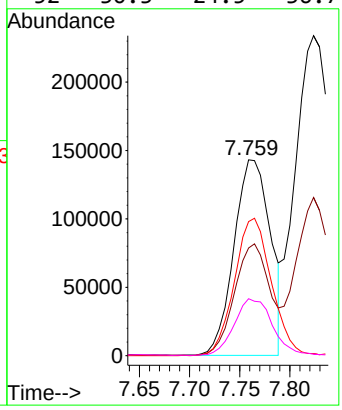




#41
Methacrylonitrile
Concen: 88.949 ug/l
RT: 7.759 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 41 Resp: 36166

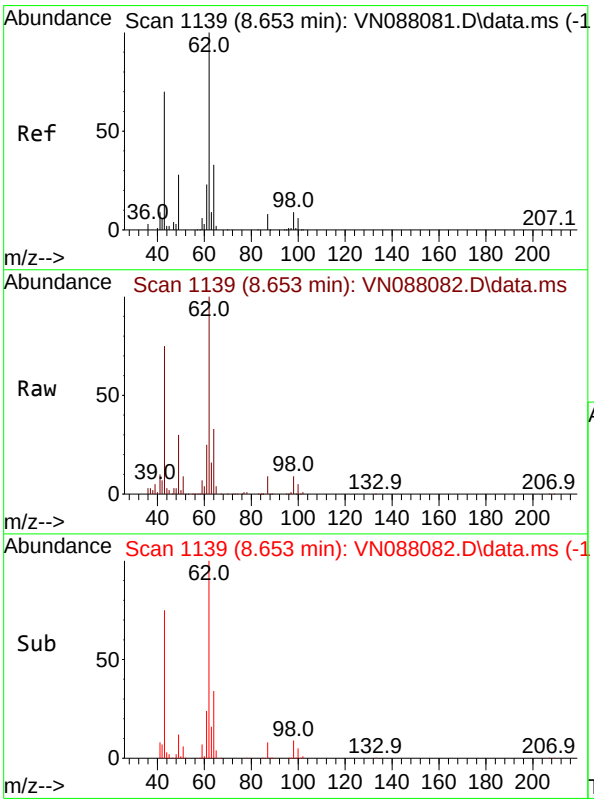
Ion	Ratio	Lower	Upper
41	100		
39	55.0	45.4	68.0
67	71.7	55.3	82.9
52	30.3	24.5	36.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

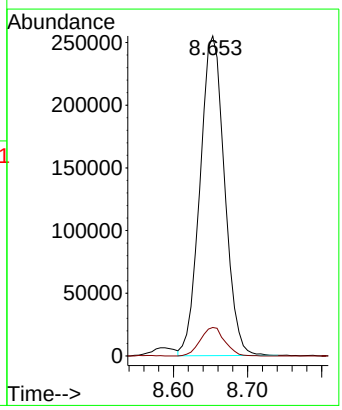
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

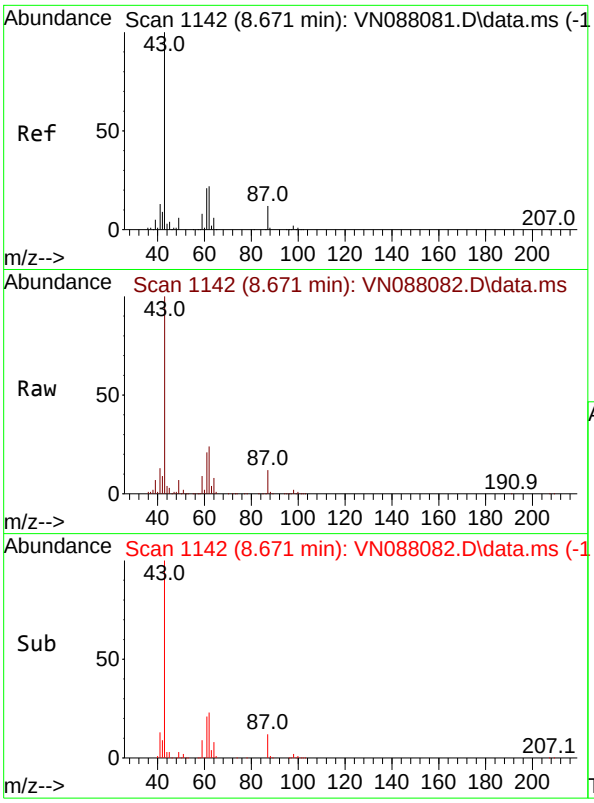


#42
1,2-Dichloroethane
Concen: 90.453 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 62 Resp: 585932

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	17.4

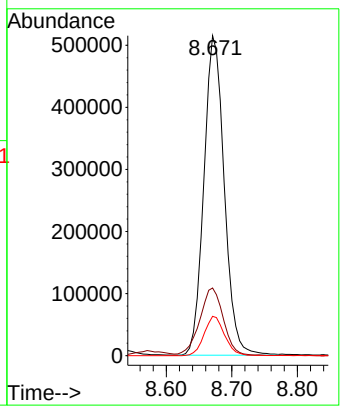




#43
Isopropyl Acetate
Concen: 93.923 ug/l
RT: 8.671 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 43 Resp: 111494

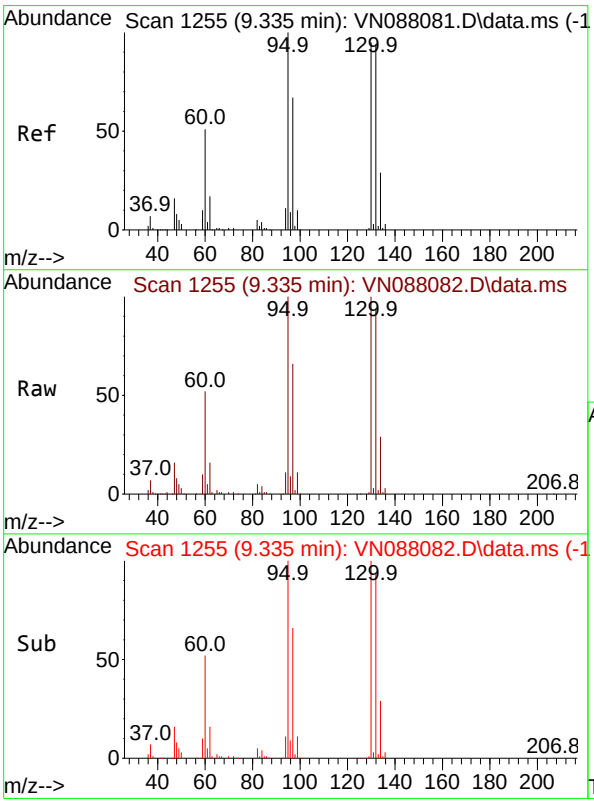
Ion	Ratio	Lower	Upper
43	100		
61	24.5	18.8	28.2
87	12.4	9.6	14.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
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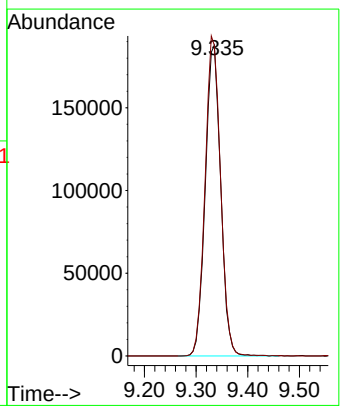
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

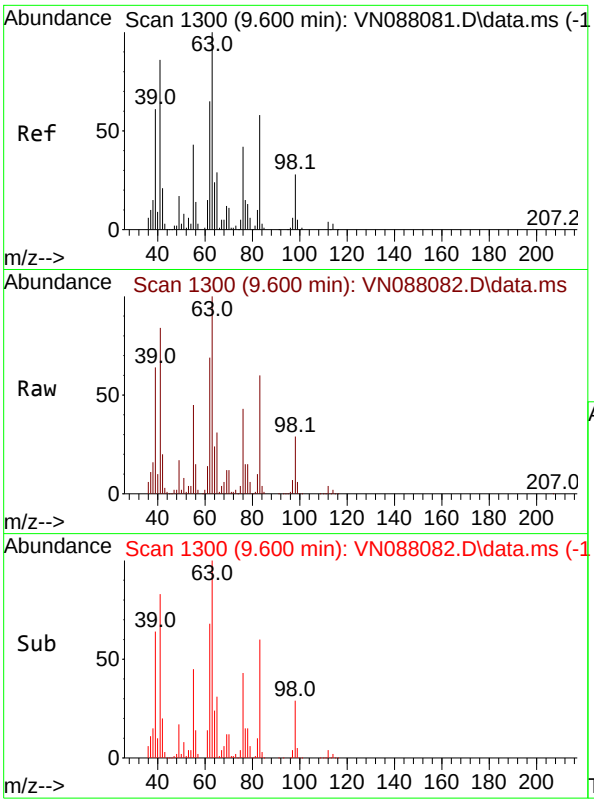


#44
Trichloroethene
Concen: 91.204 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:130 Resp: 388649

Ion	Ratio	Lower	Upper
130	100		
95	99.9	0.0	212.0





#45
1,2-Dichloropropane
Concen: 90.107 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

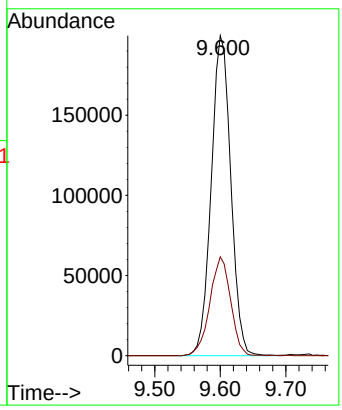
Tgt Ion: 63 Resp: 41472

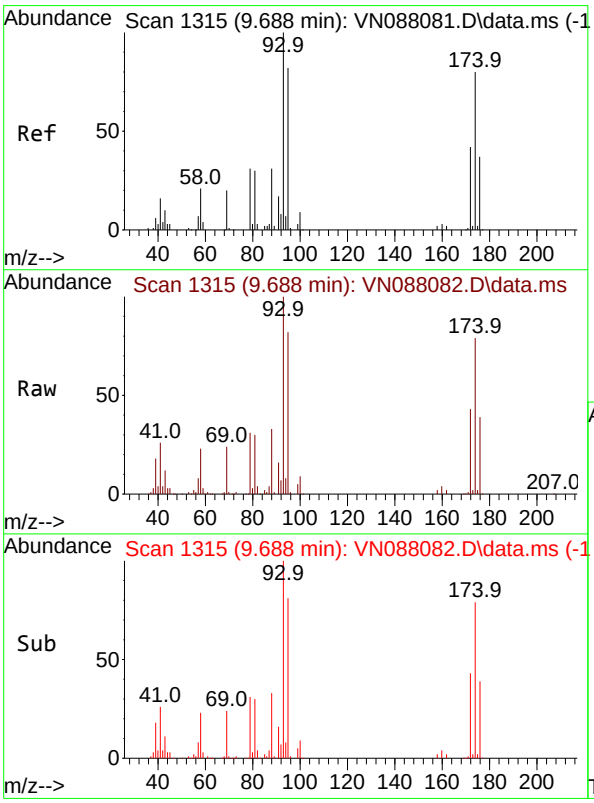
Ion	Ratio	Lower	Upper
63	100		
65	30.9	25.0	37.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

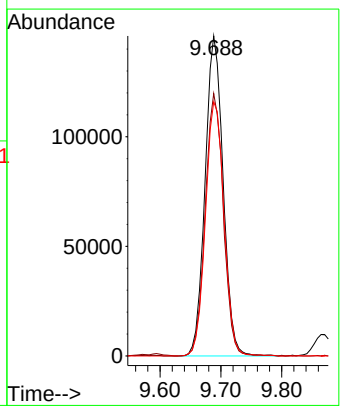


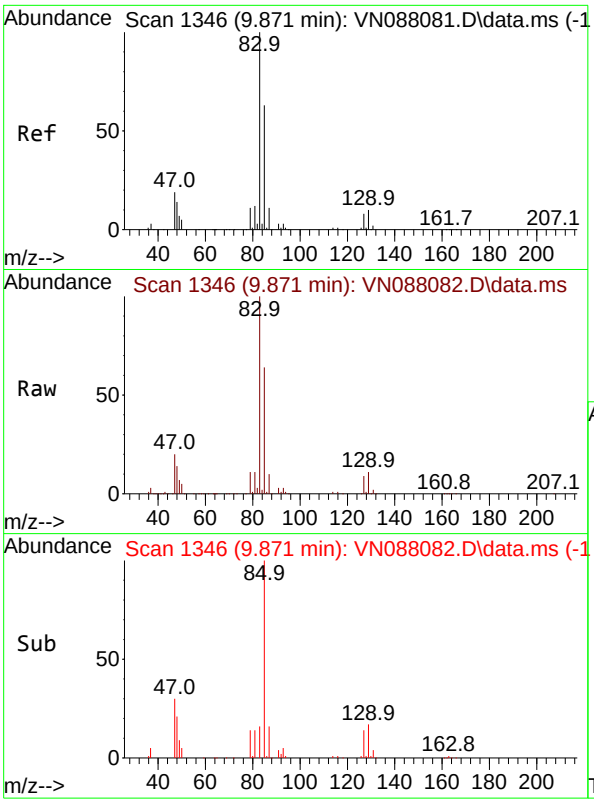


#46
Dibromomethane
Concen: 91.556 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 93 Resp: 300542

Ion	Ratio	Lower	Upper
93	100		
95	82.7	66.2	99.4
174	81.8	63.4	95.2

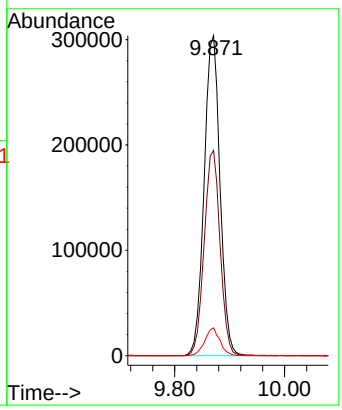




#47
Bromodichloromethane
Concen: 92.594 ug/l
RT: 9.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 83 Resp: 60854

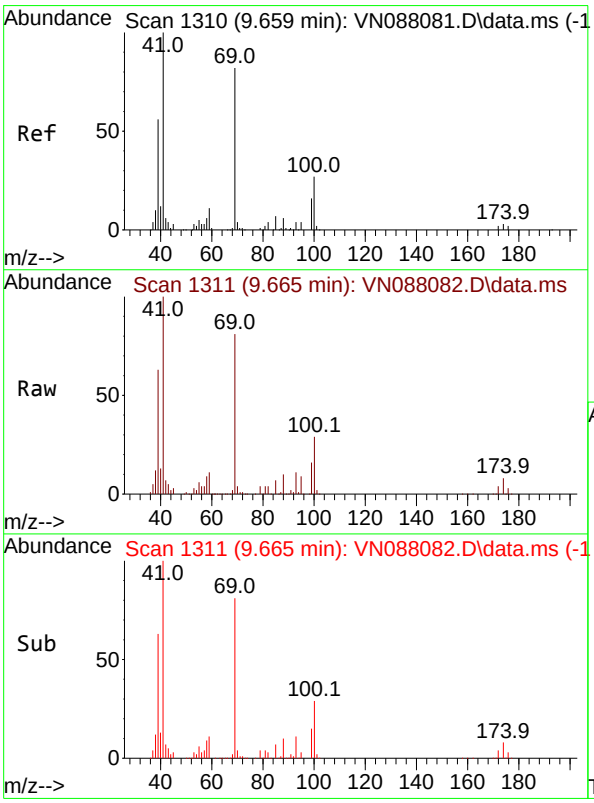
Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.5	78.7
127	8.7	5.8	8.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

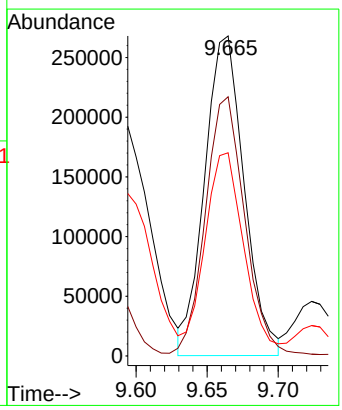
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

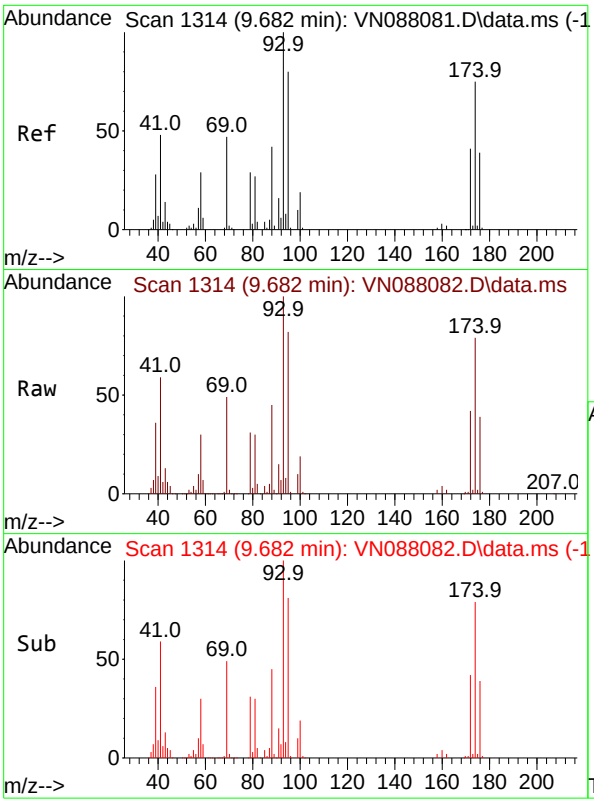


#48
Methyl methacrylate
Concen: 92.006 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 41 Resp: 518783

Ion	Ratio	Lower	Upper
41	100		
69	80.6	62.7	94.1
39	63.4	52.9	79.3

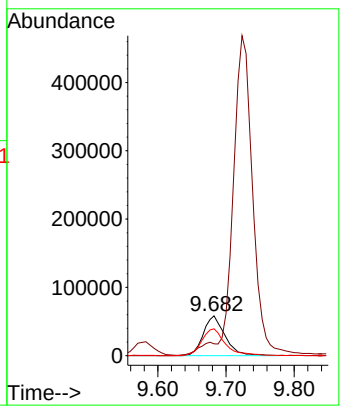




#49
1,4-Dioxane
Concen: 1892.672 ug/l
RT: 9.682 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 88 Resp: 12901

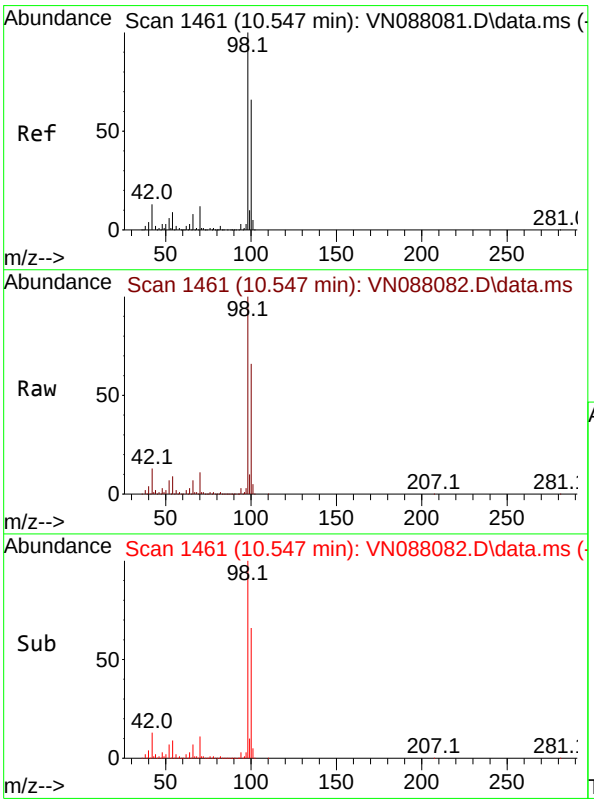
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	73.2	57.9	86.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

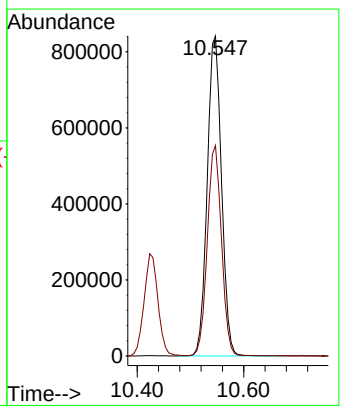
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

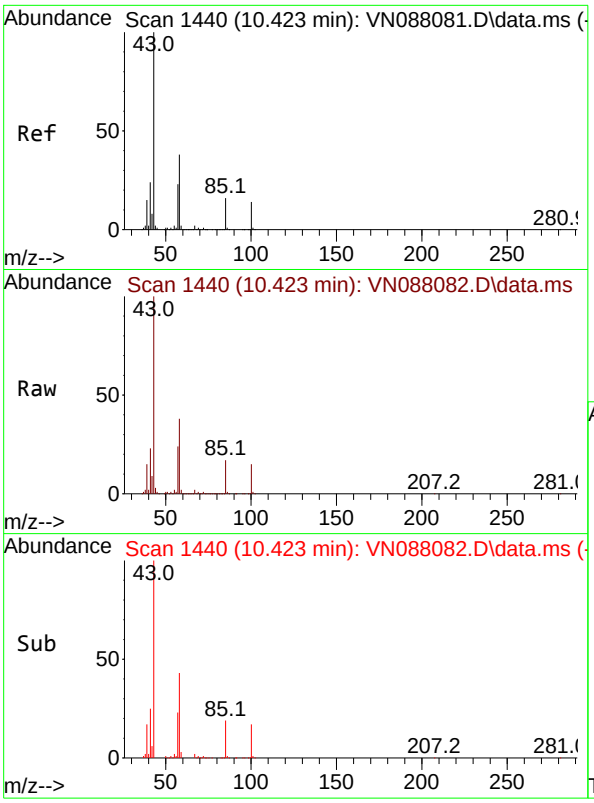


#50
Toluene-d8
Concen: 99.162 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 98 Resp: 1566524

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.8	79.2





#51
4-Methyl-2-Pentanone
Concen: 479.746 ug/l
RT: 10.423 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

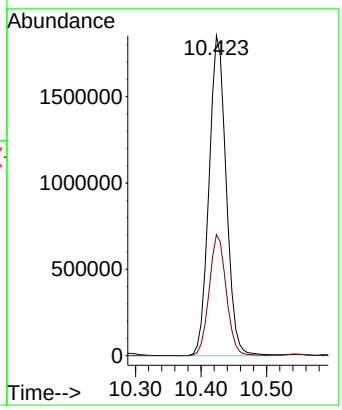
Tgt Ion: 43 Resp: 336906

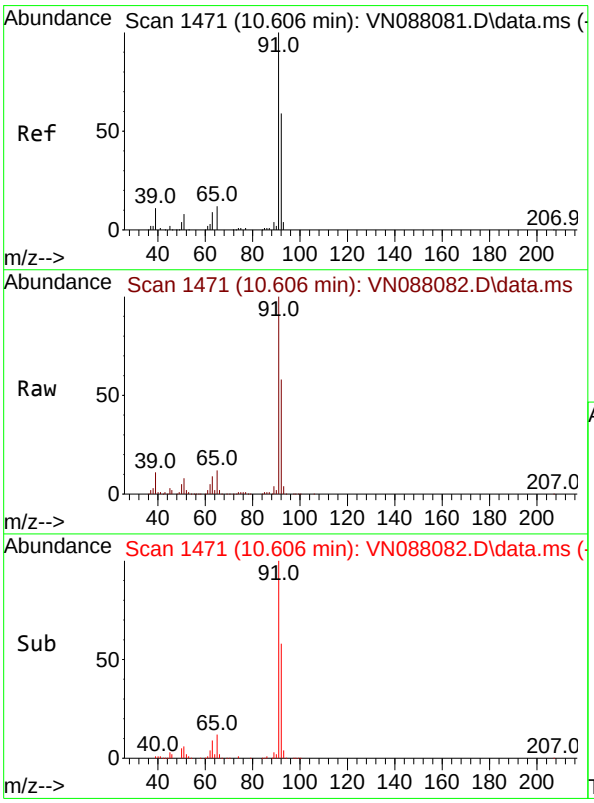
Ion	Ratio	Lower	Upper
43	100		
58	37.7	29.6	44.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

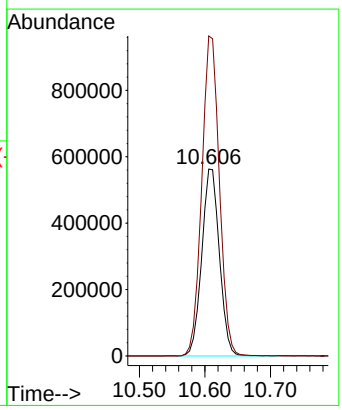


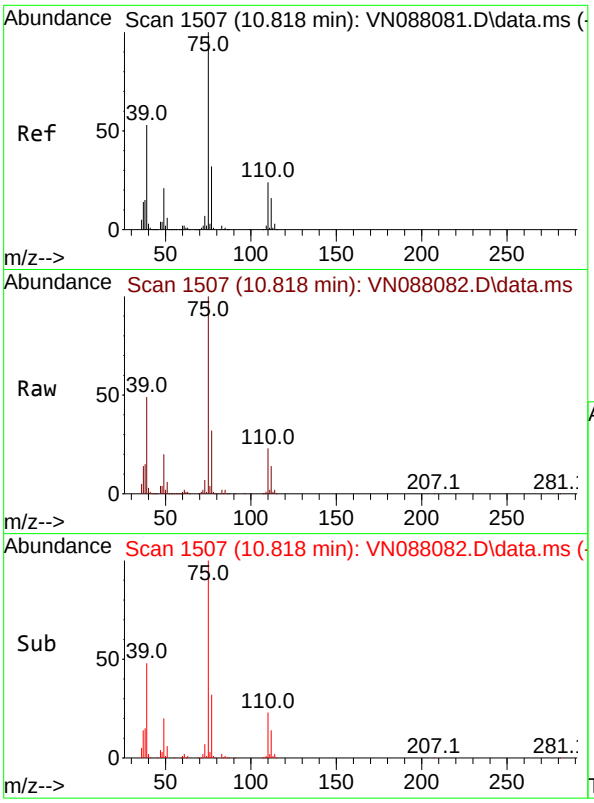


#52
Toluene
Concen: 93.569 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 92 Resp: 1051747

Ion	Ratio	Lower	Upper
92	100		
91	171.4	140.4	210.6

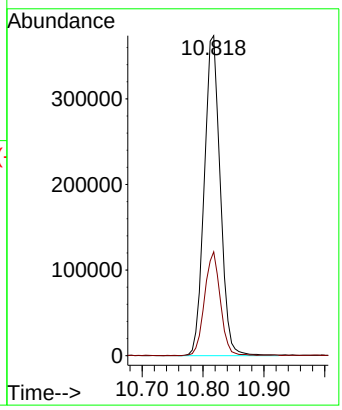




#53
t-1,3-Dichloropropene
Concen: 97.583 ug/l
RT: 10.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 75 Resp: 68258

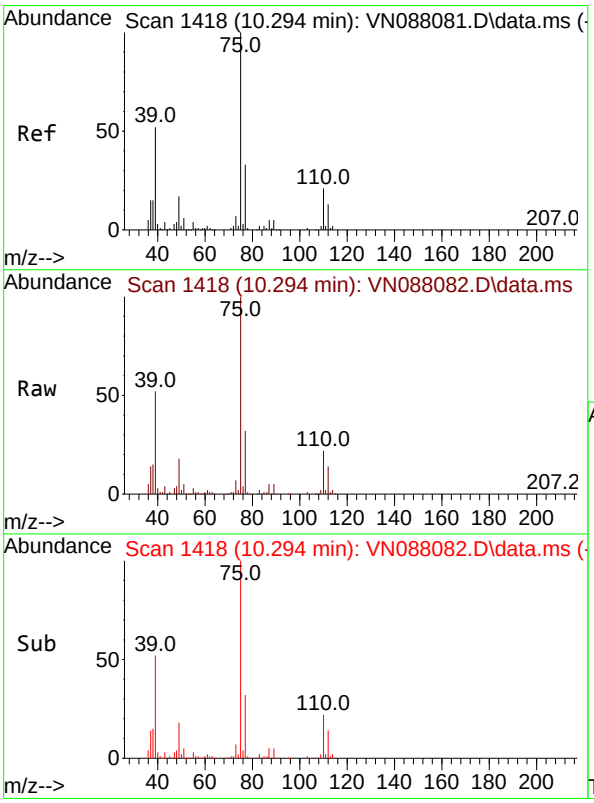
Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.2	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

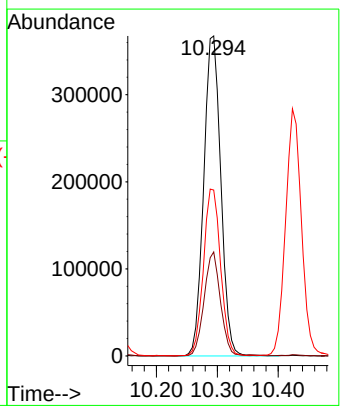
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

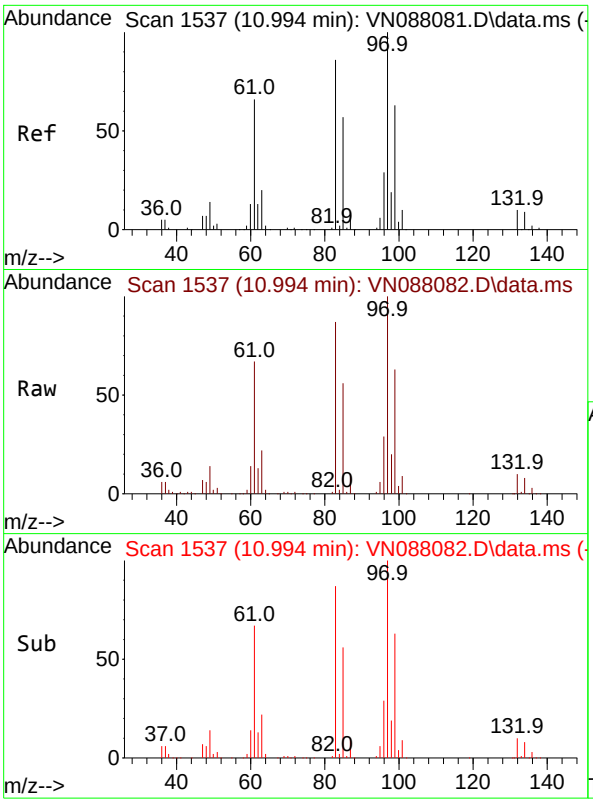


#54
cis-1,3-Dichloropropene
Concen: 96.477 ug/l
RT: 10.294 min Scan# 1418
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 75 Resp: 716101

Ion	Ratio	Lower	Upper
75	100		
77	32.5	24.6	37.0
39	51.8	45.2	67.8

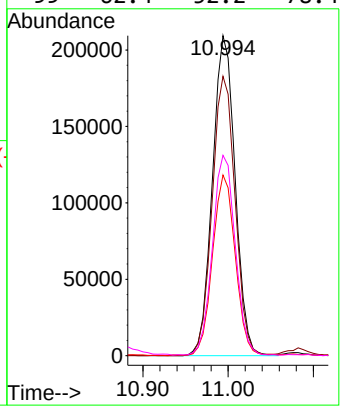




#55
1,1,2-Trichloroethane
Concen: 90.704 ug/l
RT: 10.994 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 97 Resp: 38680

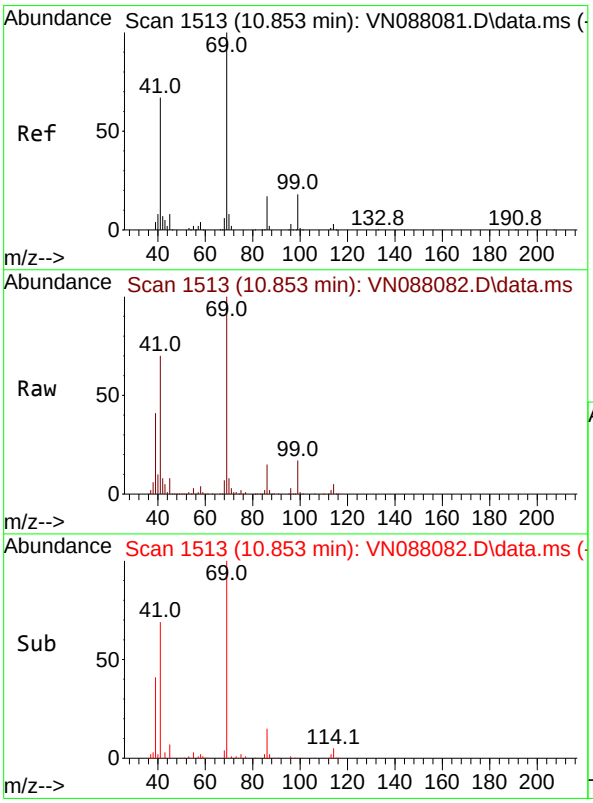
Ion	Ratio	Lower	Upper
97	100		
83	87.3	68.2	102.4
85	56.3	45.5	68.3
99	62.4	52.2	78.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

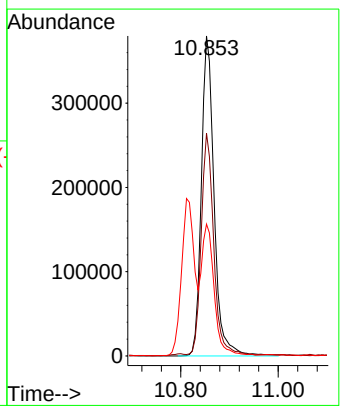
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

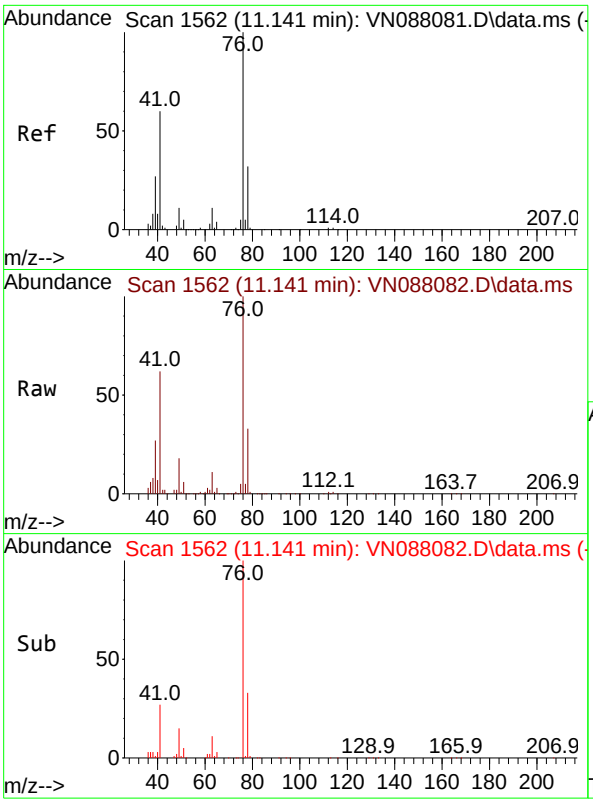


#56
Ethyl methacrylate
Concen: 102.440 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 69 Resp: 690302

Ion	Ratio	Lower	Upper
69	100		
41	67.3	56.5	84.7
39	40.3	34.2	51.4

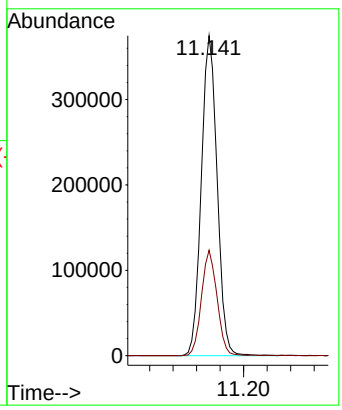




#57
1,3-Dichloropropane
Concen: 93.206 ug/l
RT: 11.141 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 76 Resp: 69863

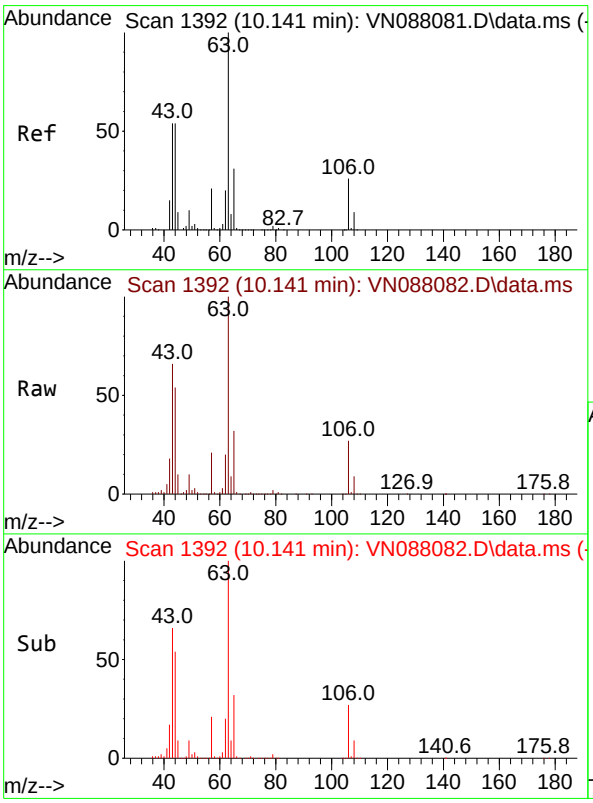
Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

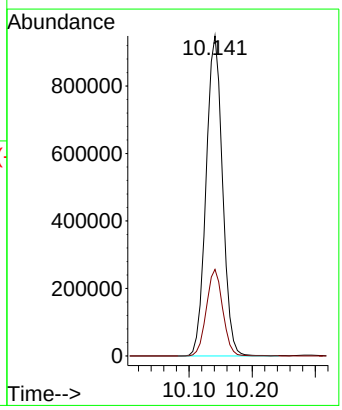
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

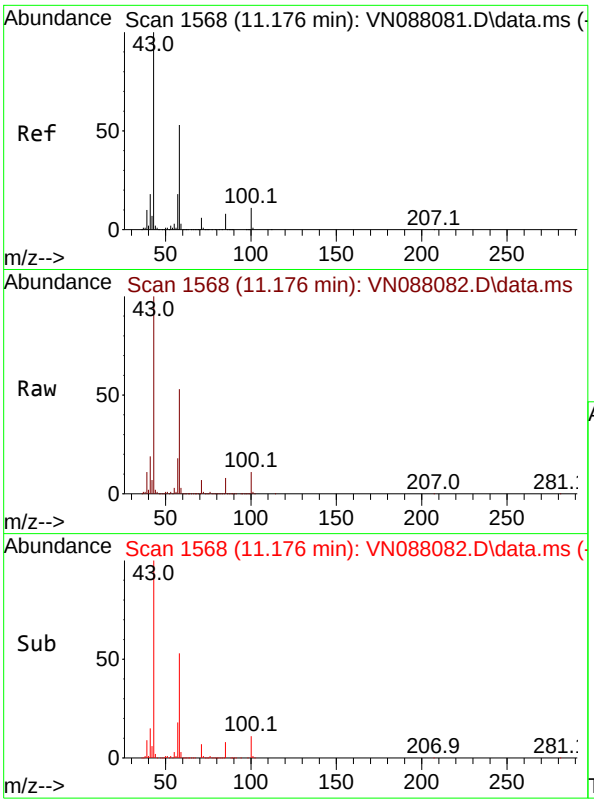


#58
2-Chloroethyl Vinyl ether
Concen: 487.433 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 63 Resp: 1711029

Ion	Ratio	Lower	Upper
63	100		
106	26.9	21.1	31.7

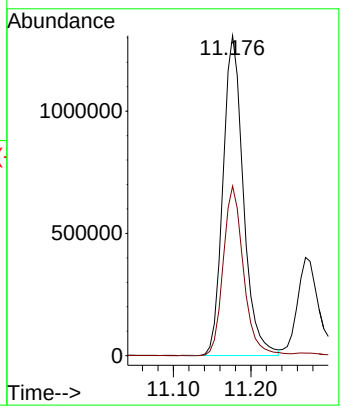




#59
2-Hexanone
Concen: 518.272 ug/l
RT: 11.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 43 Resp: 238931

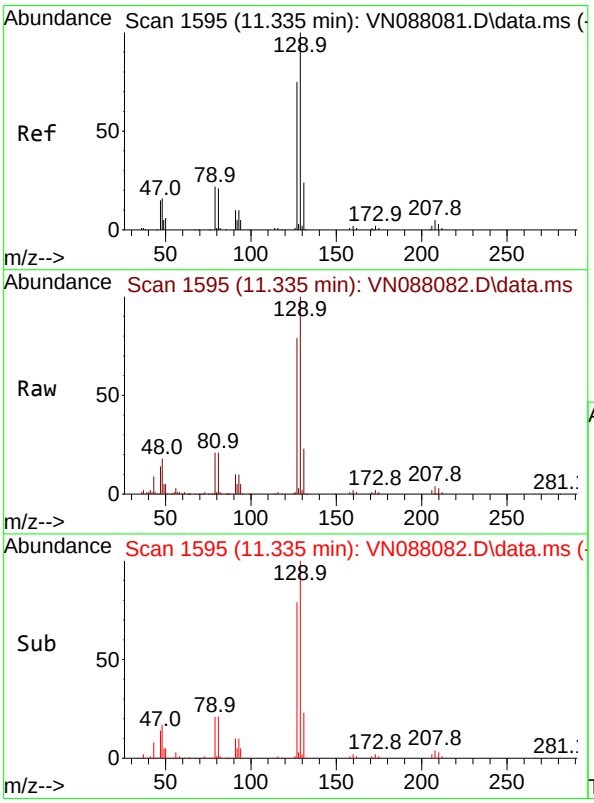
Ion	Ratio	Lower	Upper
43	100		
58	52.9	25.9	77.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

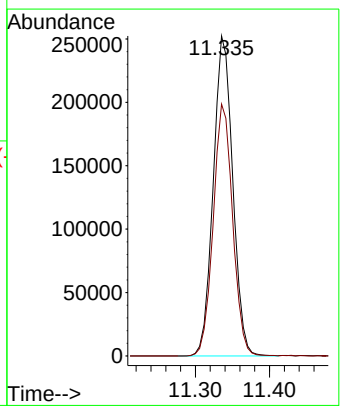
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

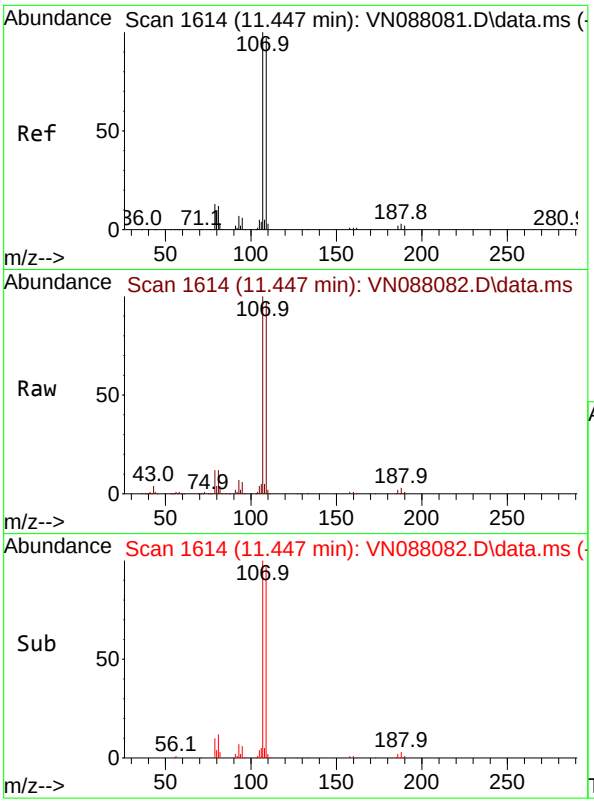


#60
Dibromochloromethane
Concen: 94.953 ug/l
RT: 11.335 min Scan# 1595
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:129 Resp: 460237

Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.1	117.3

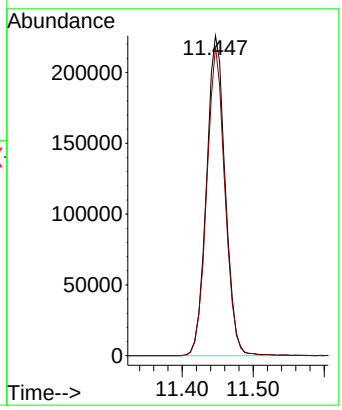




#61
1,2-Dibromoethane
Concen: 94.227 ug/l
RT: 11.447 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:107 Resp: 41354

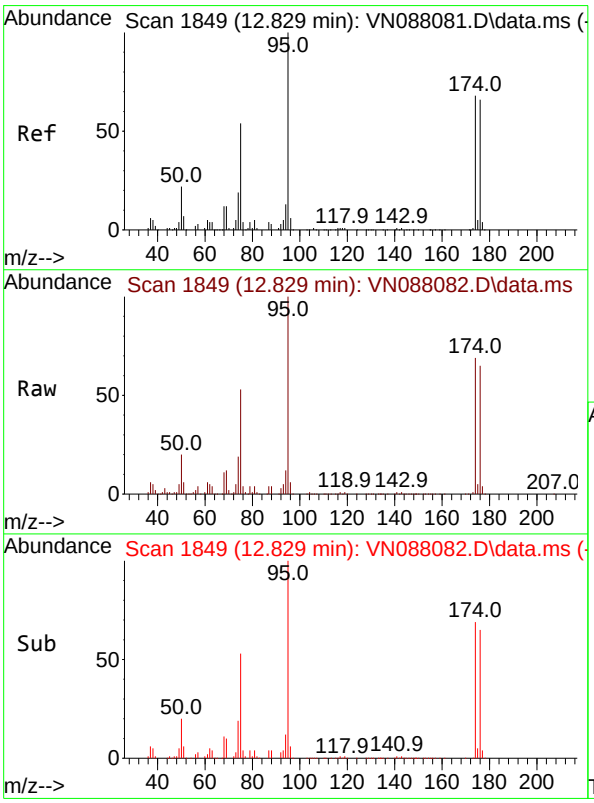
Ion	Ratio	Lower	Upper
107	100		
109	94.3	74.7	112.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

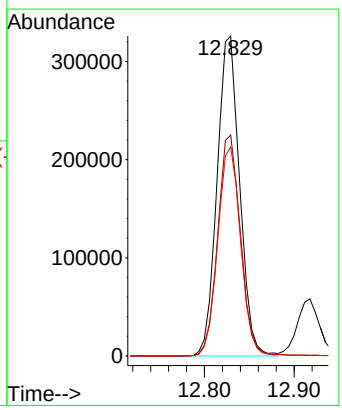
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

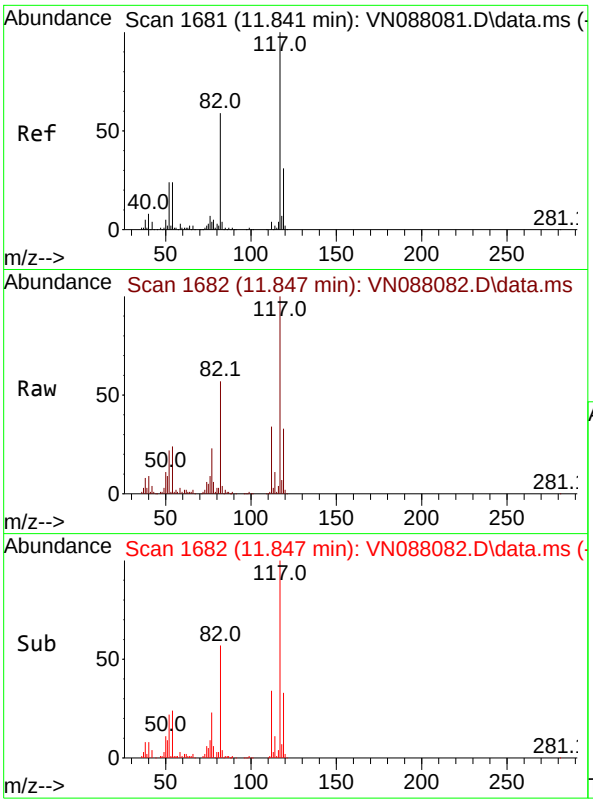


#62
4-Bromofluorobenzene
Concen: 102.048 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 95 Resp: 569341

Ion	Ratio	Lower	Upper
95	100		
174	69.9	0.0	138.4
176	66.2	0.0	132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

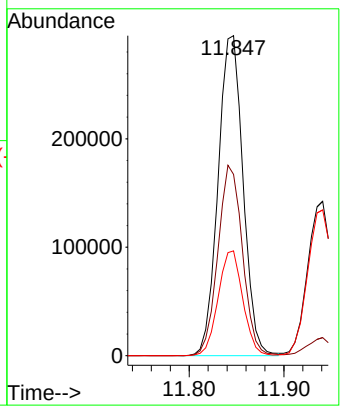
Tgt Ion:117 Resp: 54184

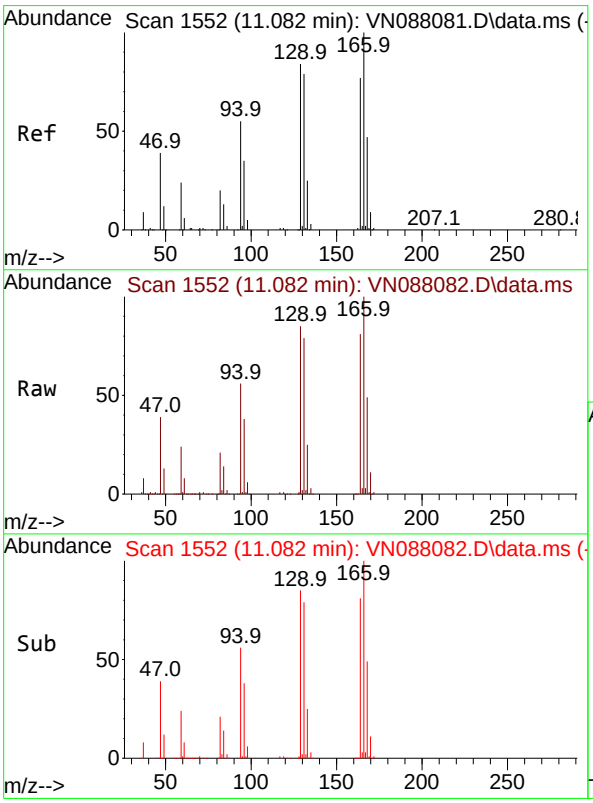
Ion	Ratio	Lower	Upper
117	100		
82	56.6	47.4	71.2
119	32.7	24.3	36.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

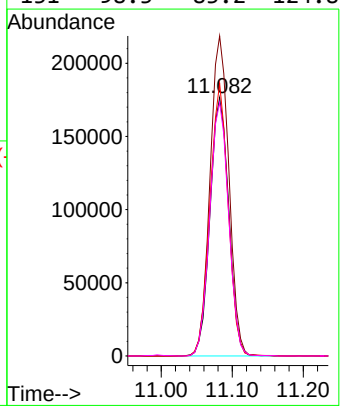


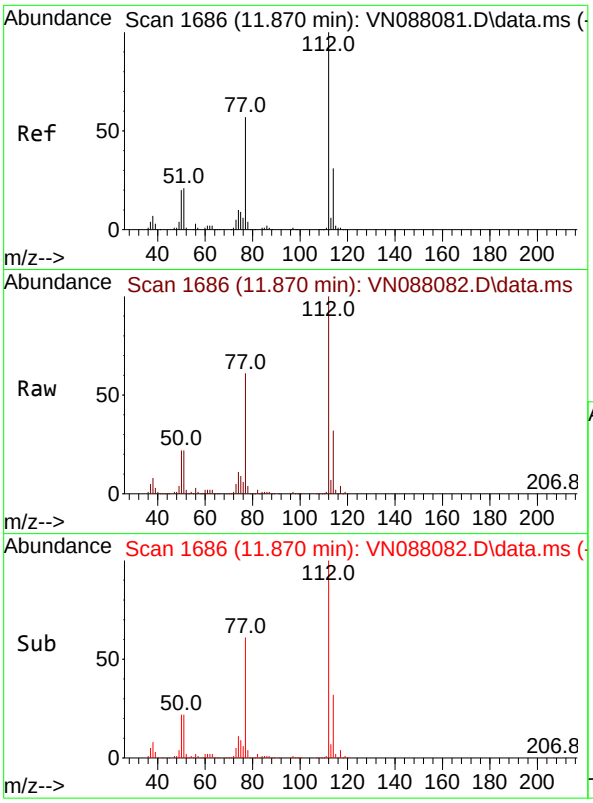


#64
Tetrachloroethene
Concen: 90.231 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:164 Resp: 322496

Ion	Ratio	Lower	Upper
164	100		
166	123.9	97.7	146.5
129	105.6	85.9	128.9
131	98.3	83.2	124.8

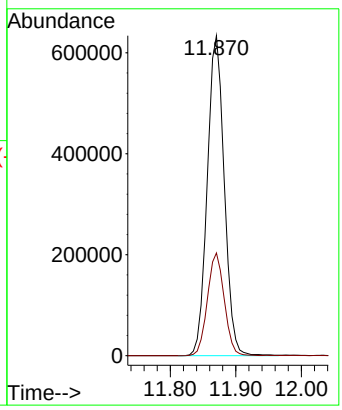




#65
Chlorobenzene
Concen: 92.783 ug/l
RT: 11.870 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:112 Resp: 114155

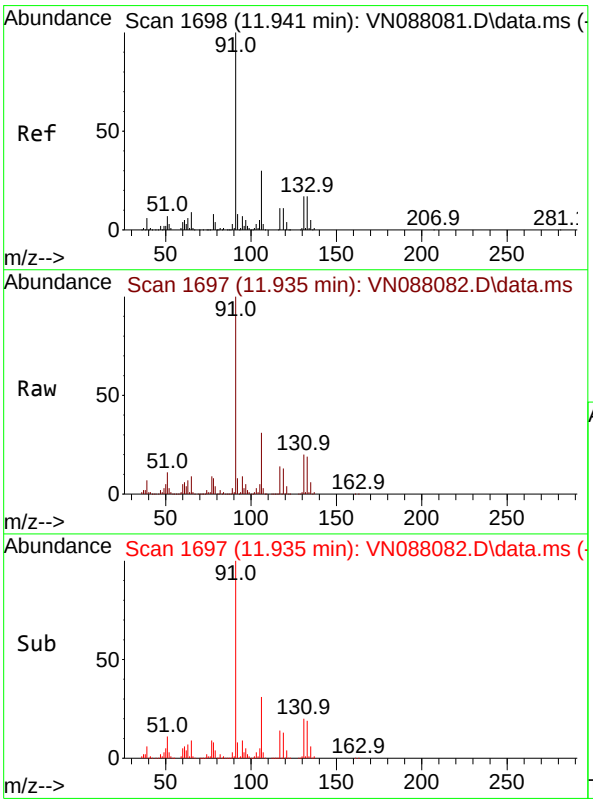
Ion	Ratio	Lower	Upper
112	100		
114	32.1	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

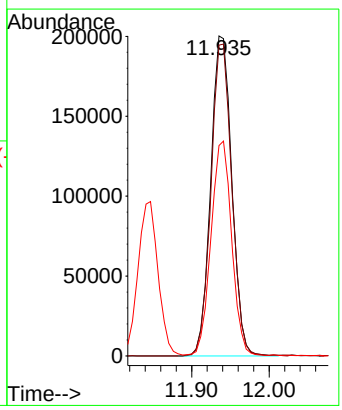
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

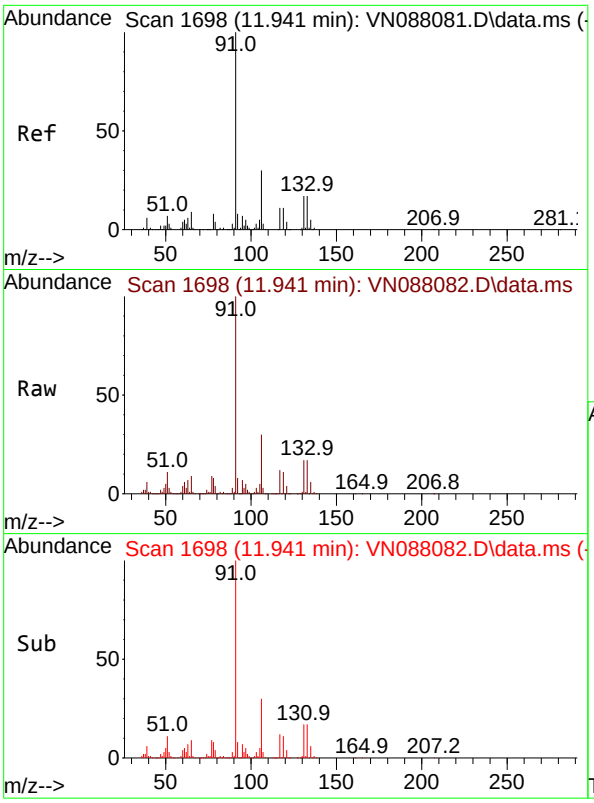


#66
1,1,1,2-Tetrachloroethane
Concen: 93.562 ug/l
RT: 11.935 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:131 Resp: 377142

Ion	Ratio	Lower	Upper
131	100		
133	96.4	48.0	144.0
119	65.8	32.6	97.7

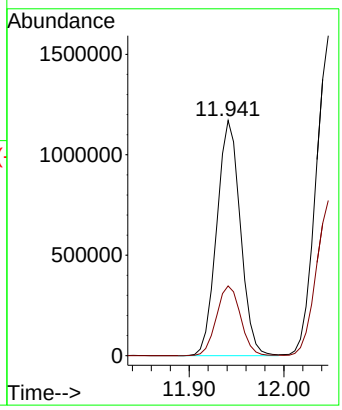




#67
Ethyl Benzene
Concen: 94.000 ug/l
RT: 11.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 91 Resp: 203094

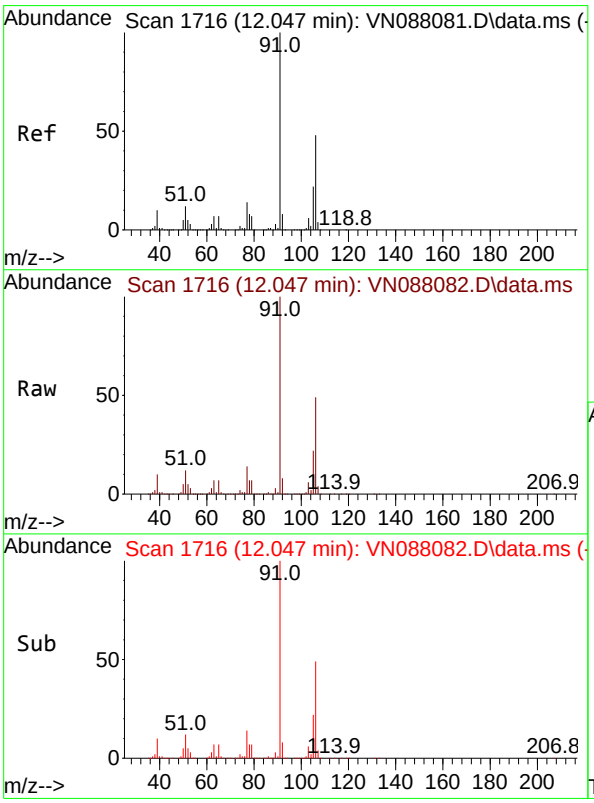
Ion	Ratio	Lower	Upper
91	100		
106	29.6	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

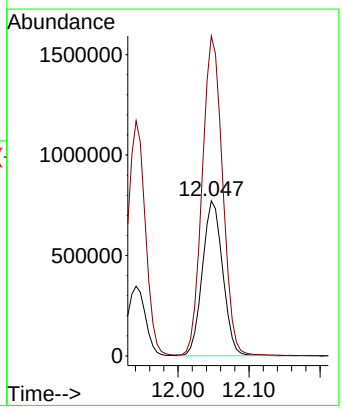
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

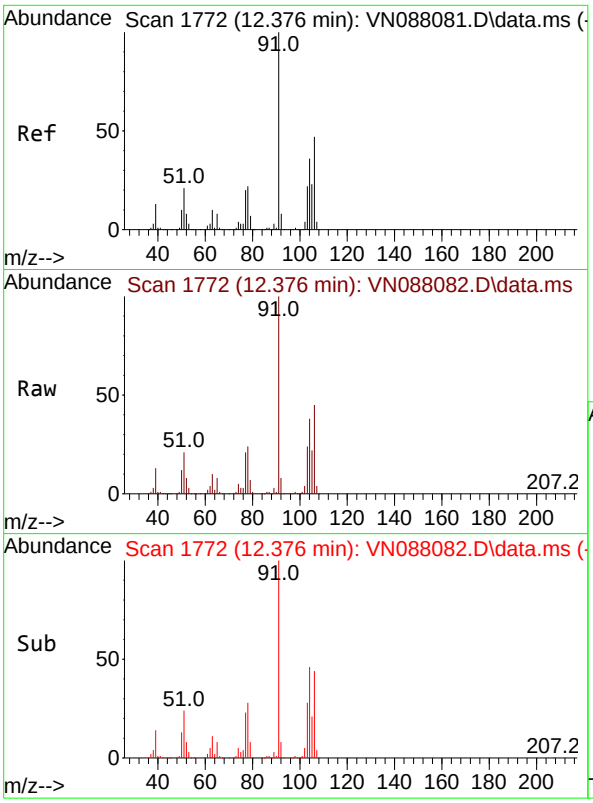


#68
m/p-Xylenes
Concen: 189.570 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:106 Resp: 1533978

Ion	Ratio	Lower	Upper
106	100		
91	207.6	169.3	253.9

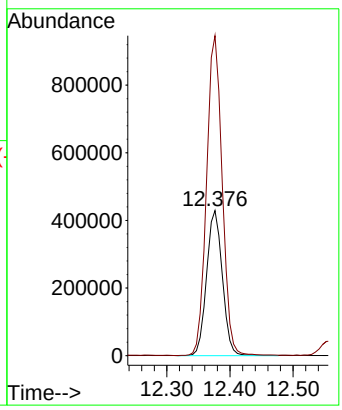




#69
o-Xylene
Concen: 96.633 ug/l
RT: 12.376 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:106 Resp: 74125

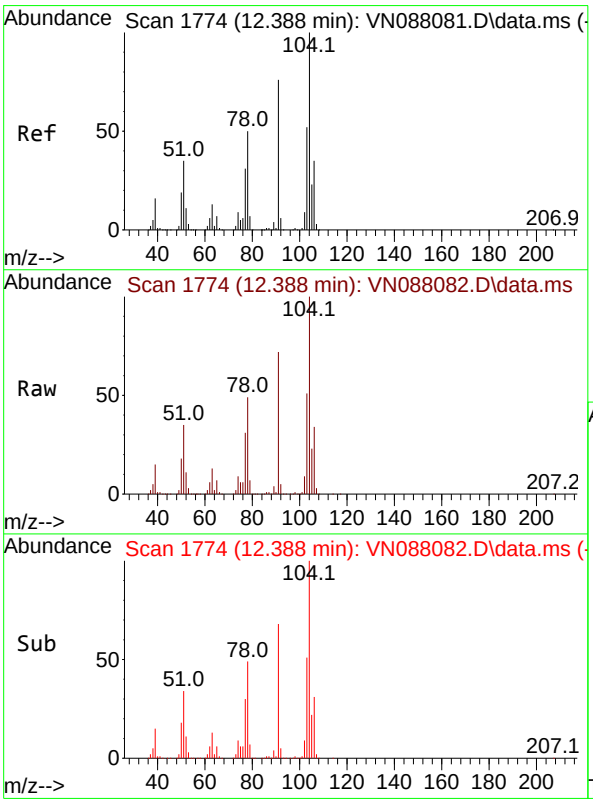
Ion	Ratio	Lower	Upper
106	100		
91	219.2	111.4	334.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

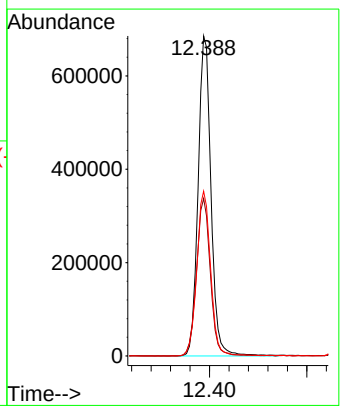
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

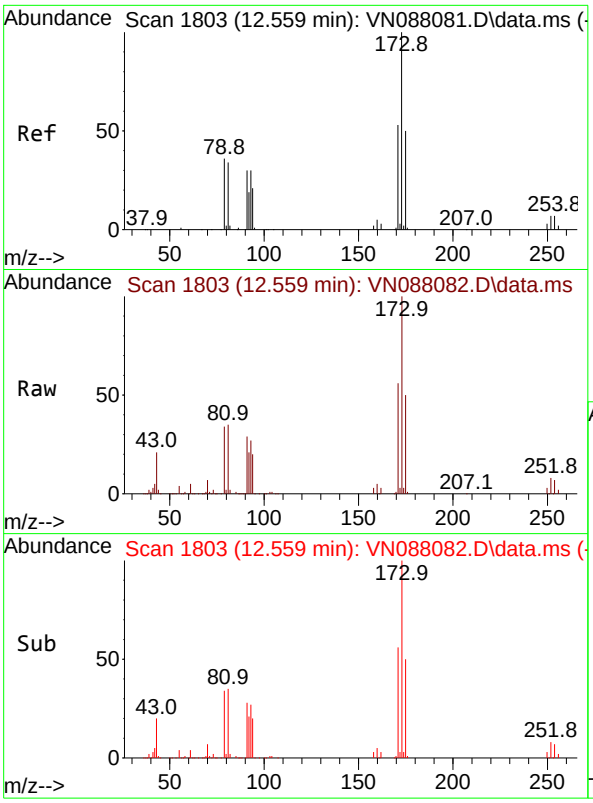


#70
Styrene
Concen: 100.907 ug/l
RT: 12.388 min Scan# 1774
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:104 Resp: 1262211

Ion	Ratio	Lower	Upper
104	100		
78	52.7	42.2	63.2
103	55.0	43.4	65.2

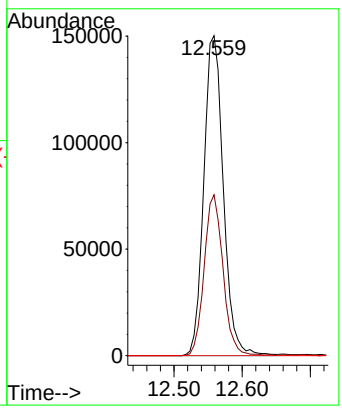




#71
Bromoform
Concen: 99.521 ug/l
RT: 12.559 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:173 Resp: 29937

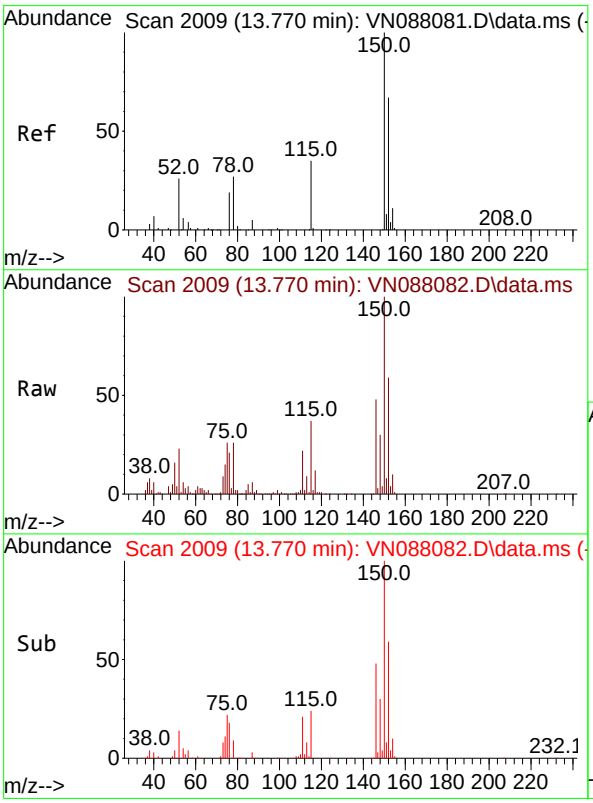
Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

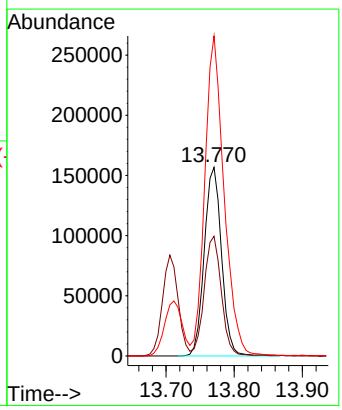
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

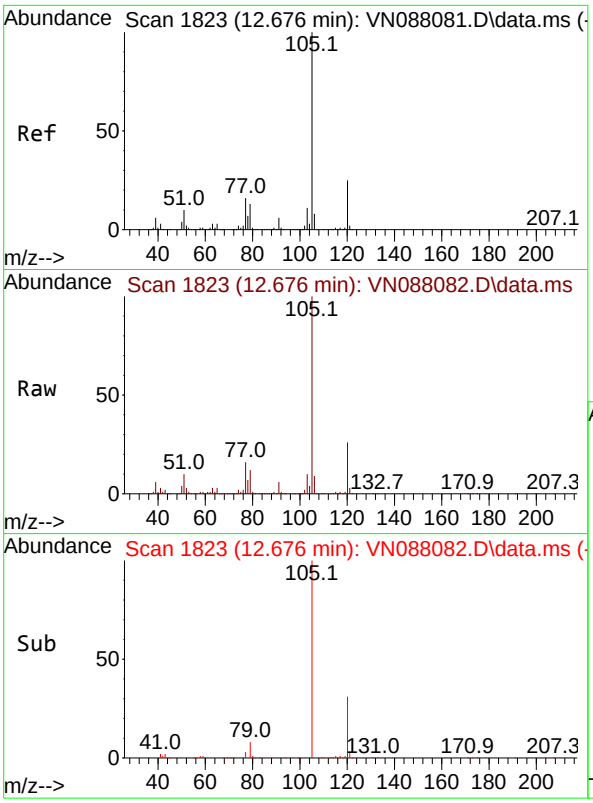


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:152 Resp: 276404

Ion	Ratio	Lower	Upper
152	100		
115	62.0	32.3	96.8
150	188.3	0.0	351.0

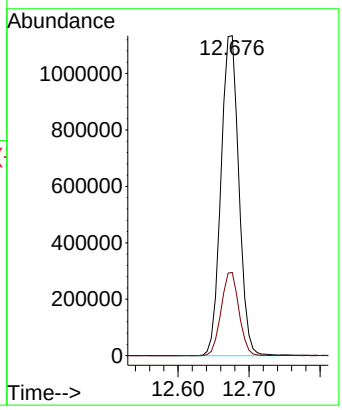




#73
Isopropylbenzene
Concen: 92.826 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:105 Resp: 197890

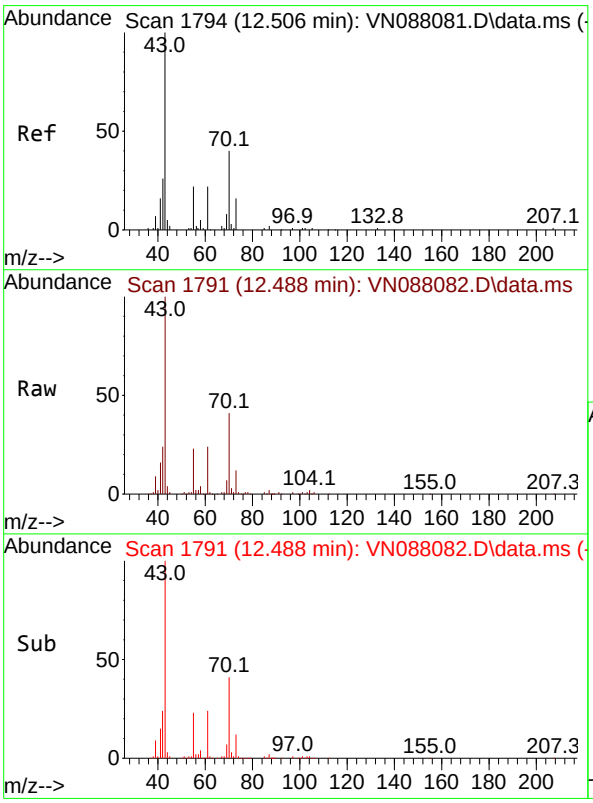
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

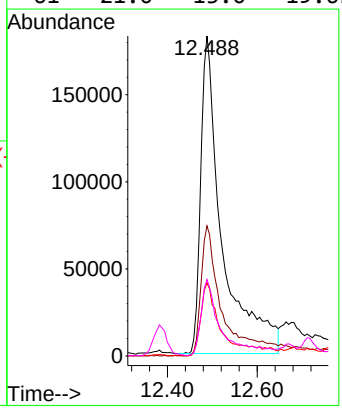
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

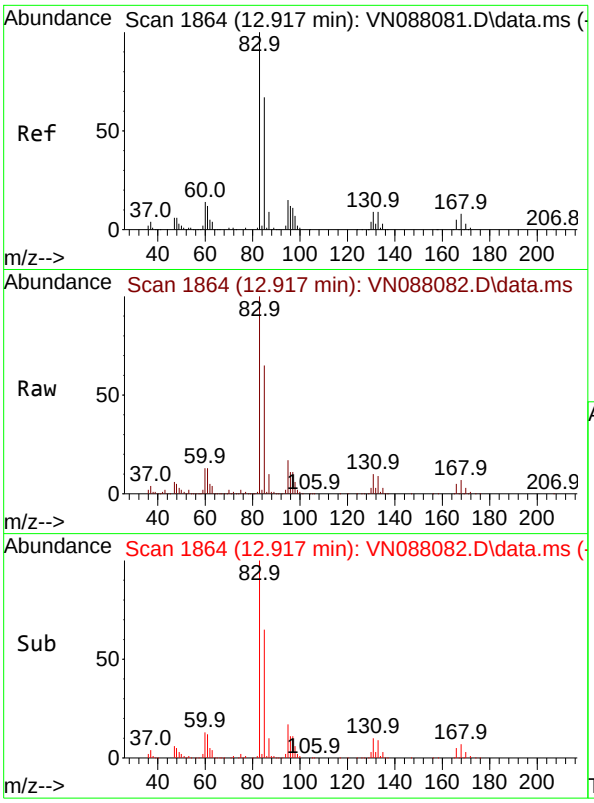


#74
N-amyl acetate
Concen: 95.060 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 43 Resp: 604970

Ion	Ratio	Lower	Upper
43	100		
70	40.8	27.6	41.4
55	21.5	13.0	19.6#
61	21.0	13.0	19.6#





#75
1,1,2,2-Tetrachloroethane
Concen: 89.923 ug/l
RT: 12.917 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

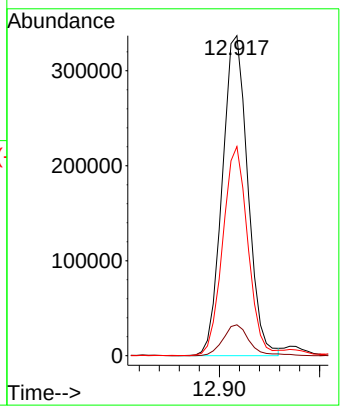
Tgt Ion: 83 Resp: 59682

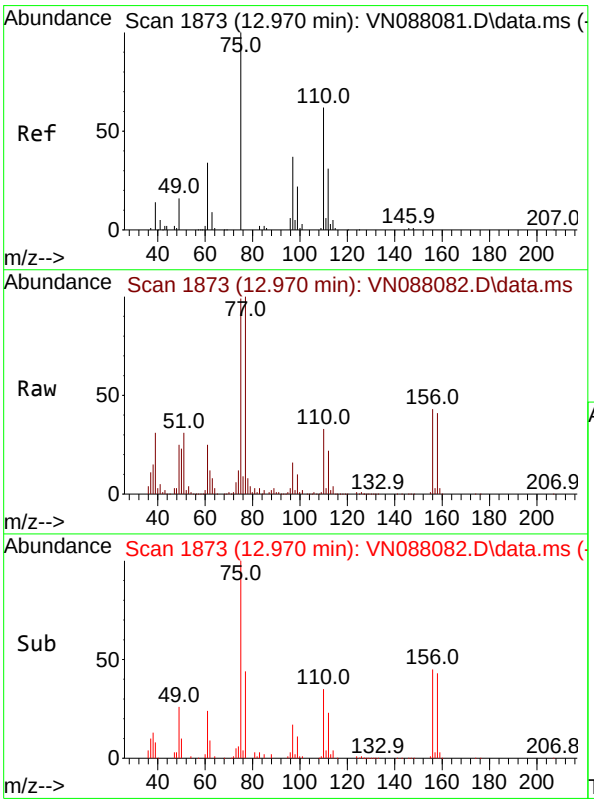
Ion	Ratio	Lower	Upper
83	100		
131	10.0	4.8	14.4
85	64.6	32.1	96.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

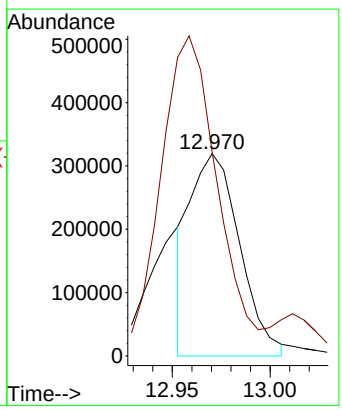


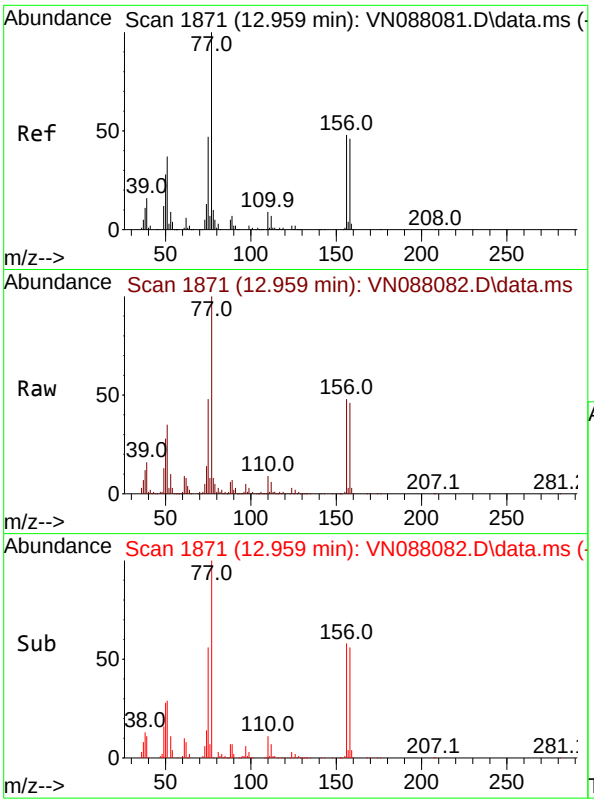


#76
1,2,3-Trichloropropane
Concen: 94.724 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 75 Resp: 560461

Ion	Ratio	Lower	Upper
75	100		
77	182.2	89.1	267.4

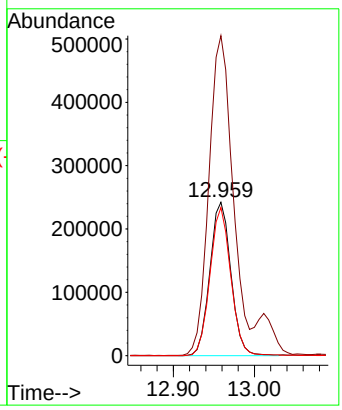




#77
Bromobenzene
Concen: 94.918 ug/l
RT: 12.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:156 Resp: 43634

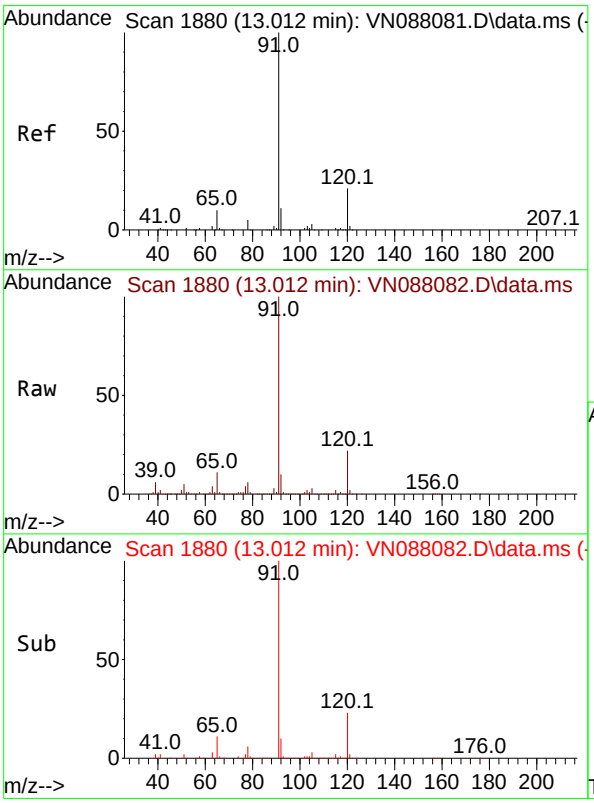
Ion	Ratio	Lower	Upper
156	100		
77	234.0	119.3	358.0
158	95.5	48.2	144.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

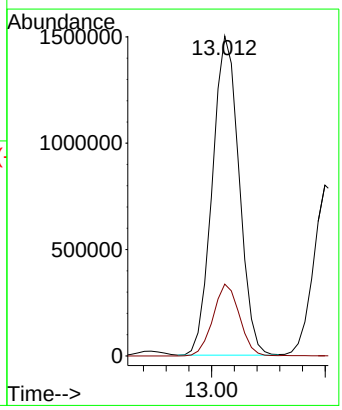
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

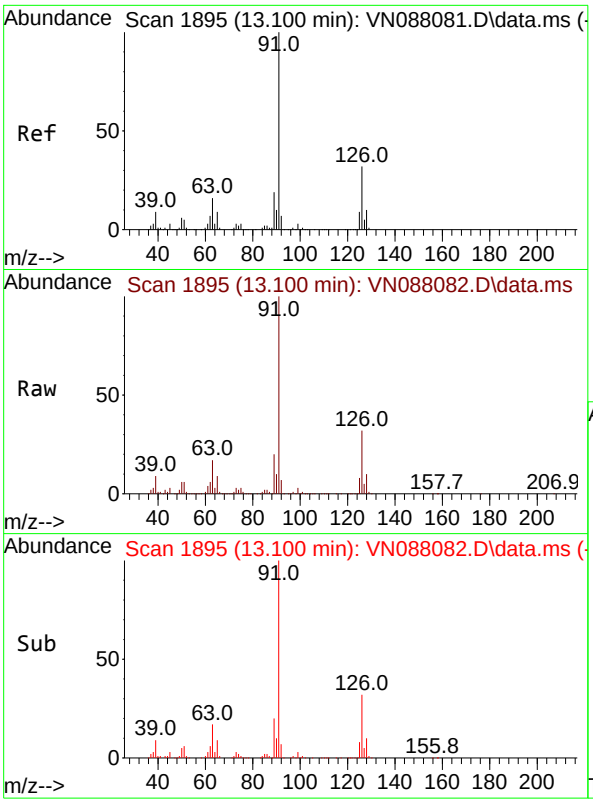


#78
n-propylbenzene
Concen: 94.250 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 91 Resp: 2451982

Ion	Ratio	Lower	Upper
91	100		
120	22.3	10.7	32.1

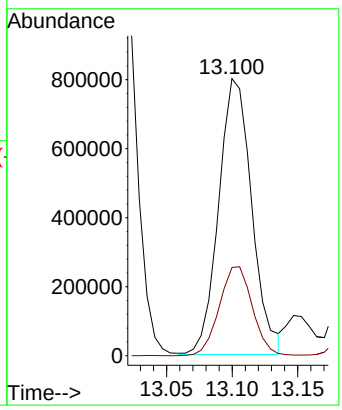




#79
2-Chlorotoluene
Concen: 94.825 ug/l
RT: 13.100 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 91 Resp: 140685

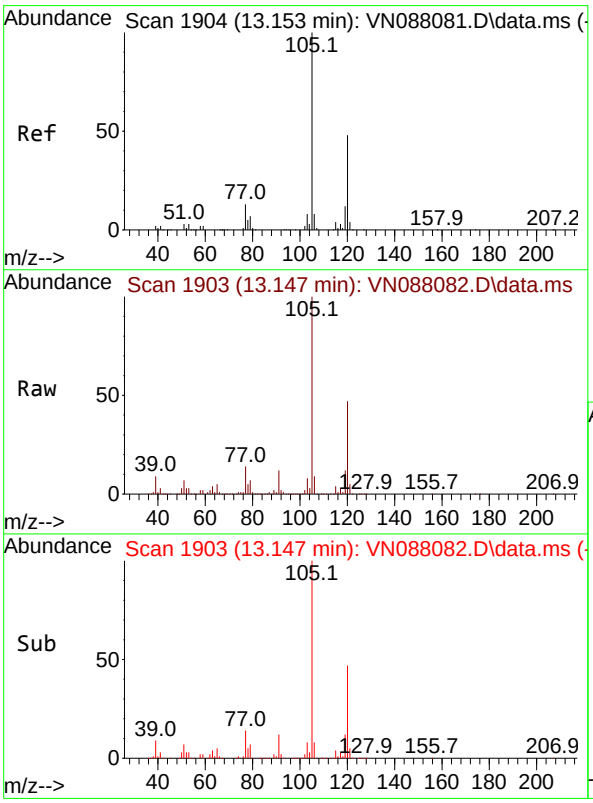
Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.1	48.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

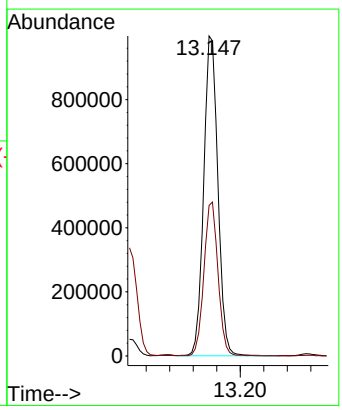
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

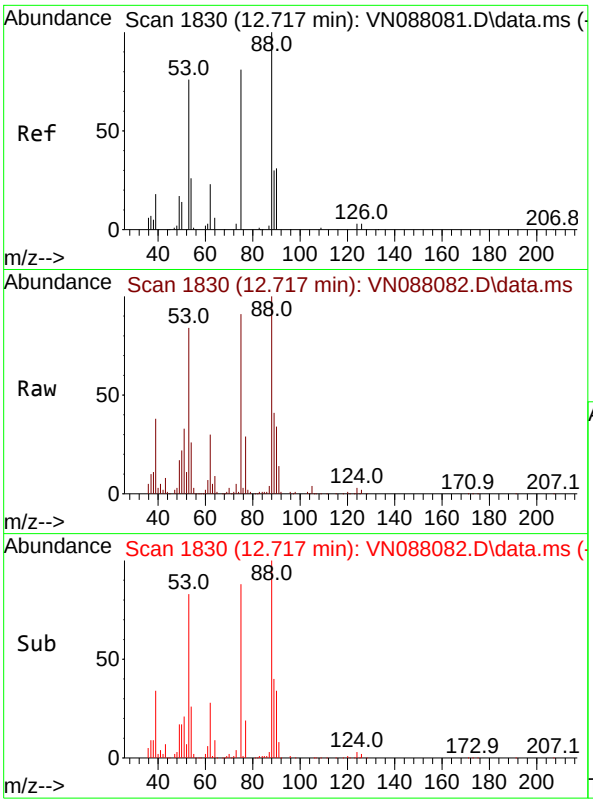


#80
1,3,5-Trimethylbenzene
Concen: 94.536 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:105 Resp: 1673751

Ion	Ratio	Lower	Upper
105	100		
120	47.8	23.2	69.6

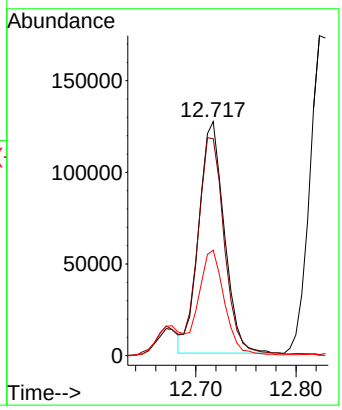




#81
trans-1,4-Dichloro-2-butene
Concen: 98.182 ug/l
RT: 12.717 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 75 Resp: 22299

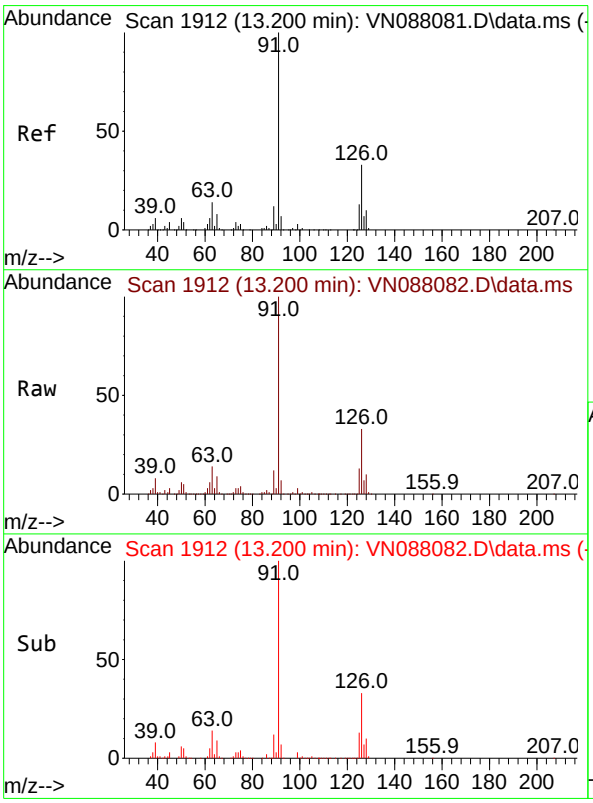
Ion	Ratio	Lower	Upper
75	100		
53	95.9	101.8	152.6
89	45.8	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

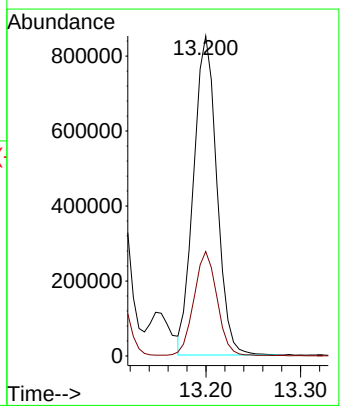
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

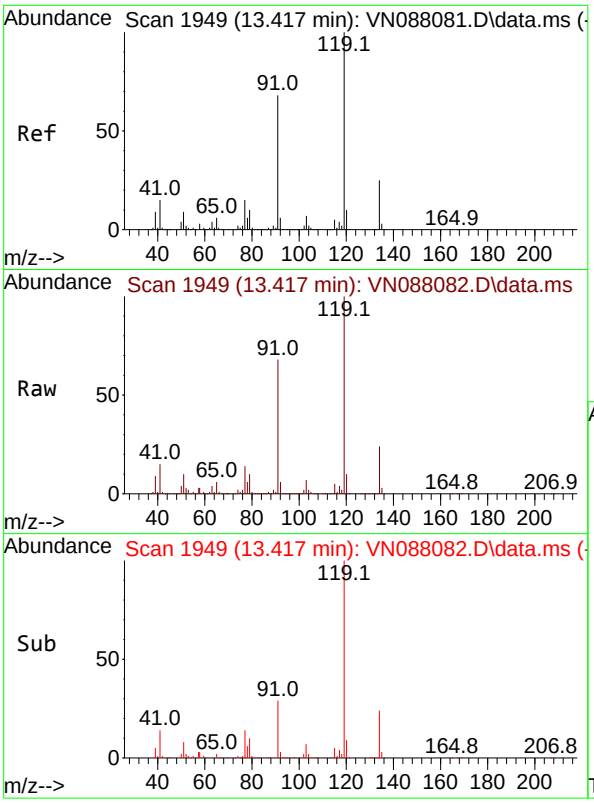


#82
4-Chlorotoluene
Concen: 90.321 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 91 Resp: 1449779

Ion	Ratio	Lower	Upper
91	100		
126	32.7	15.6	46.8

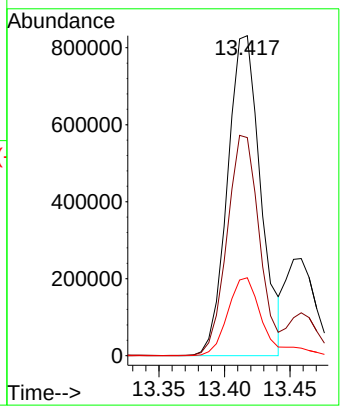




#83
tert-Butylbenzene
Concen: 92.484 ug/l
RT: 13.417 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:119 Resp: 146271

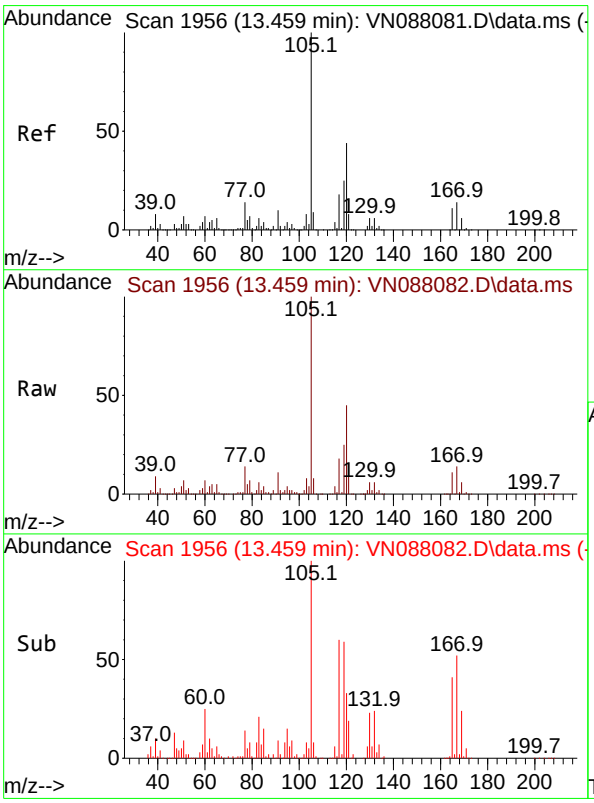
Ion	Ratio	Lower	Upper
119	100		
91	67.0	35.0	105.0
134	25.9	12.6	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

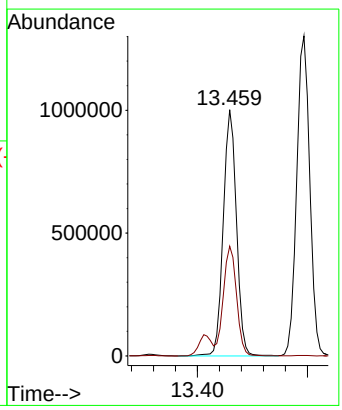
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

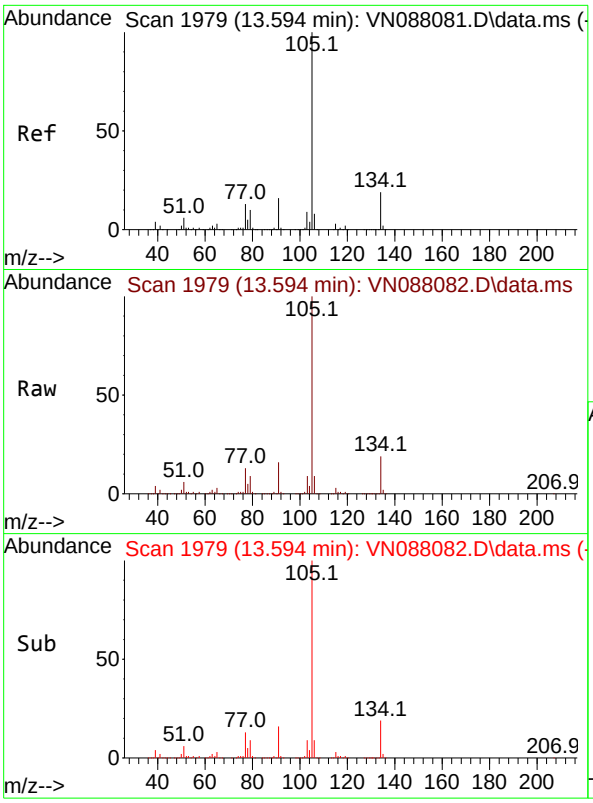


#84
1,2,4-Trimethylbenzene
Concen: 94.006 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:105 Resp: 1665233

Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.0	66.0

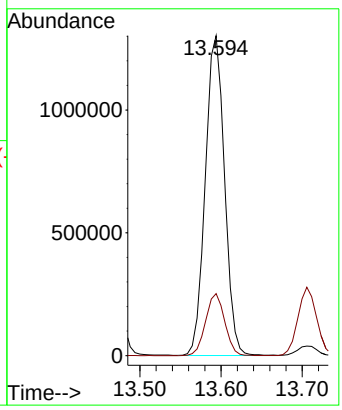




#85
sec-Butylbenzene
Concen: 92.338 ug/l
RT: 13.594 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:105 Resp: 214564

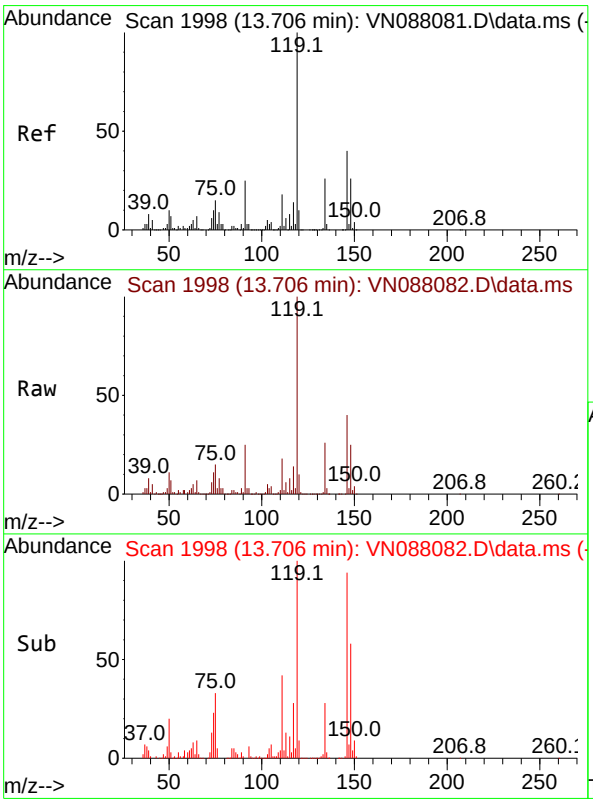
Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.6	28.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

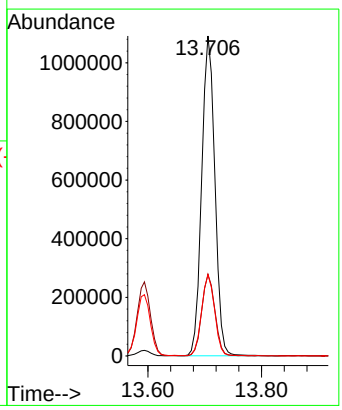
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

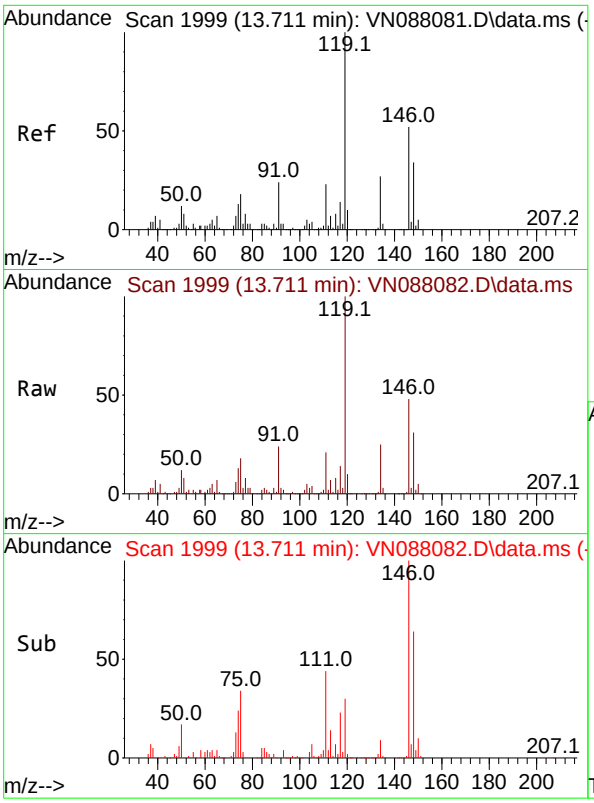


#86
p-Isopropyltoluene
Concen: 94.017 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:119 Resp: 1752529

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.7	38.0
91	25.0	12.5	37.5

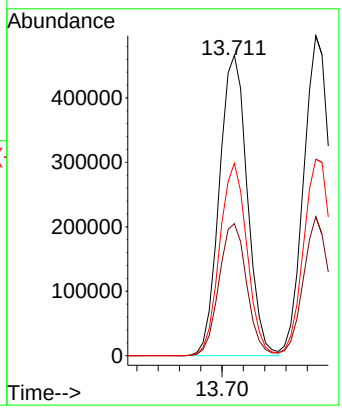




#87
1,3-Dichlorobenzene
Concen: 92.456 ug/l
RT: 13.711 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:146 Resp: 84848

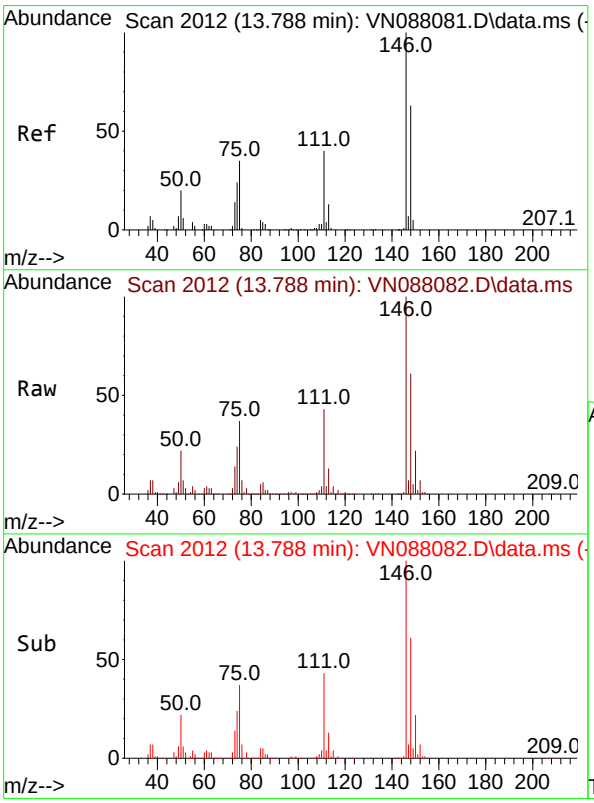
Ion	Ratio	Lower	Upper
146	100		
111	43.7	22.1	66.5
148	62.7	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

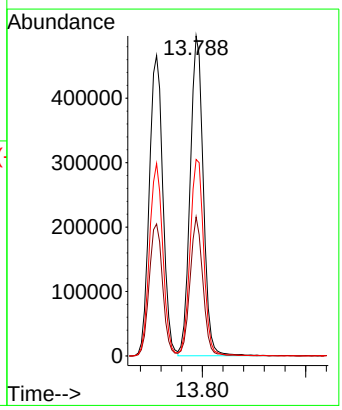
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

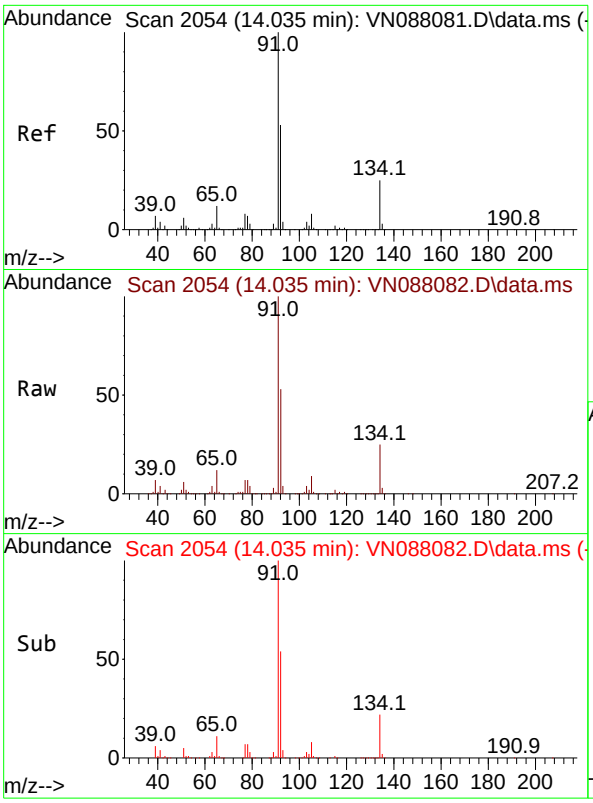


#88
1,4-Dichlorobenzene
Concen: 88.514 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:146 Resp: 874733

Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.0	63.0
148	63.2	32.0	96.0

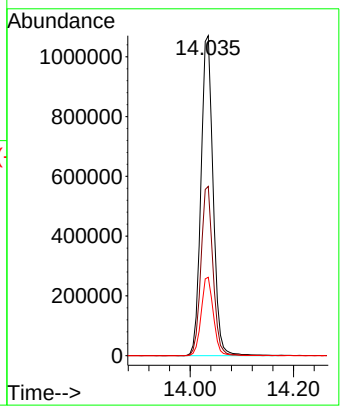




#89
n-Butylbenzene
Concen: 94.560 ug/l
RT: 14.035 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 91 Resp: 174599

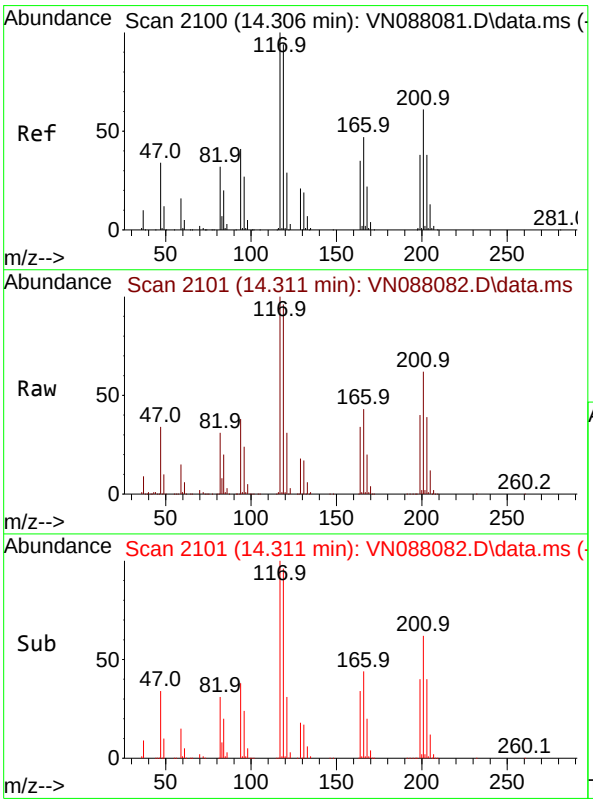
Ion	Ratio	Lower	Upper
91	100		
92	52.6	25.9	77.8
134	24.5	11.7	35.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

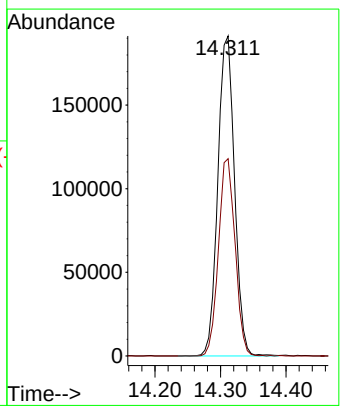
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

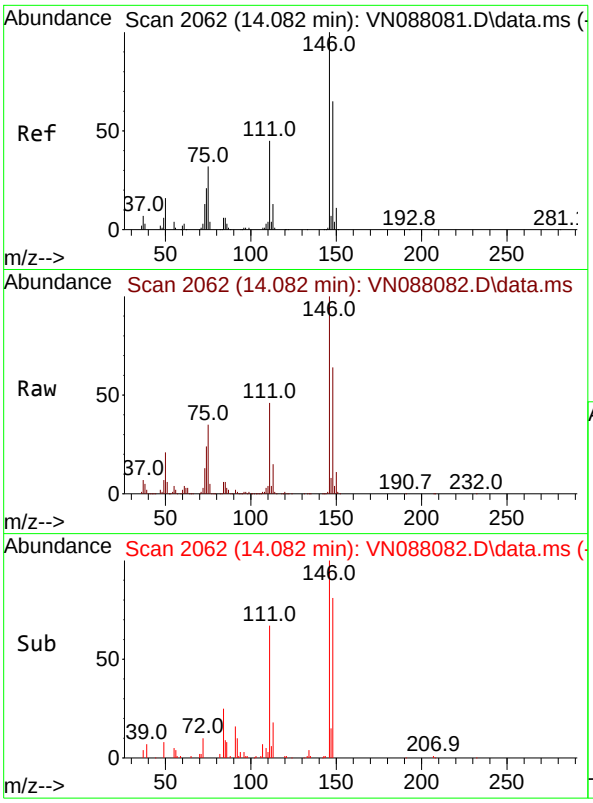


#90
Hexachloroethane
Concen: 93.379 ug/l
RT: 14.311 min Scan# 2101
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:117 Resp: 337079

Ion	Ratio	Lower	Upper
117	100		
201	61.4	29.1	87.4

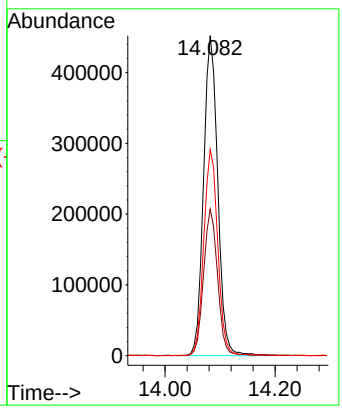




#91
1,2-Dichlorobenzene
Concen: 91.813 ug/l
RT: 14.082 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:146 Resp: 81219

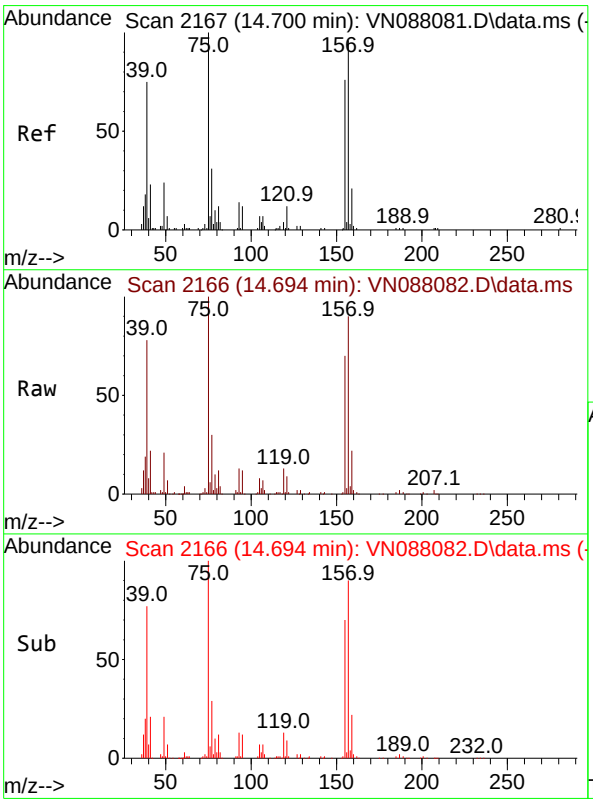
Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.6	67.8
148	63.5	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

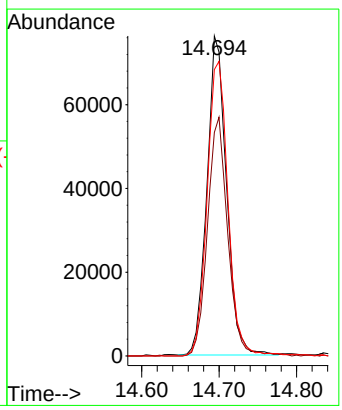
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

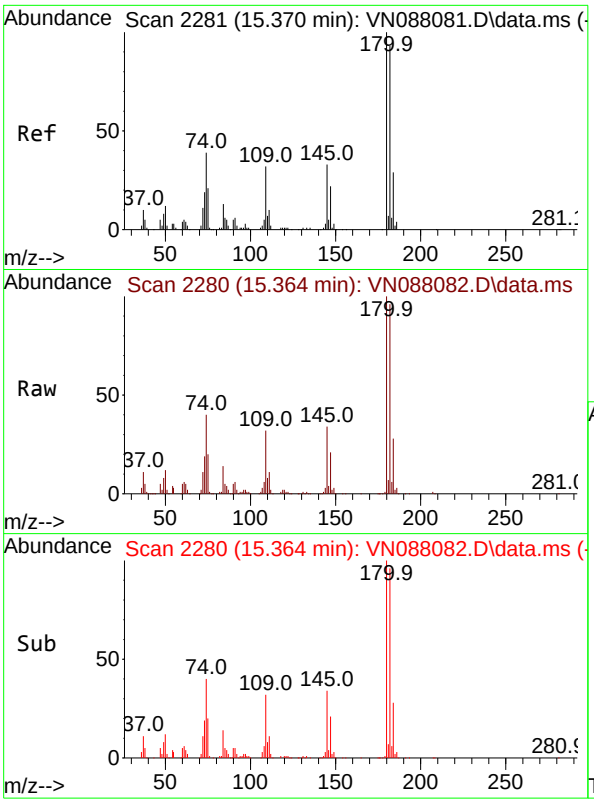


#92
1,2-Dibromo-3-Chloropropane
Concen: 86.956 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. -0.006 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion: 75 Resp: 134329

Ion	Ratio	Lower	Upper
75	100		
155	77.4	36.6	109.9
157	98.2	45.6	136.9

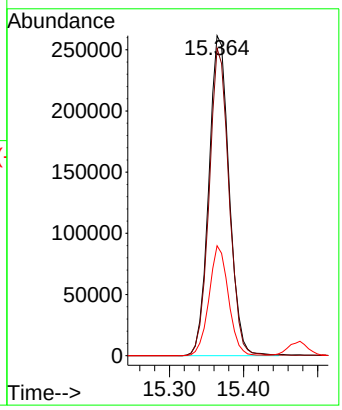




#93
1,2,4-Trichlorobenzene
Concen: 93.098 ug/l
RT: 15.364 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:180 Resp: 49876

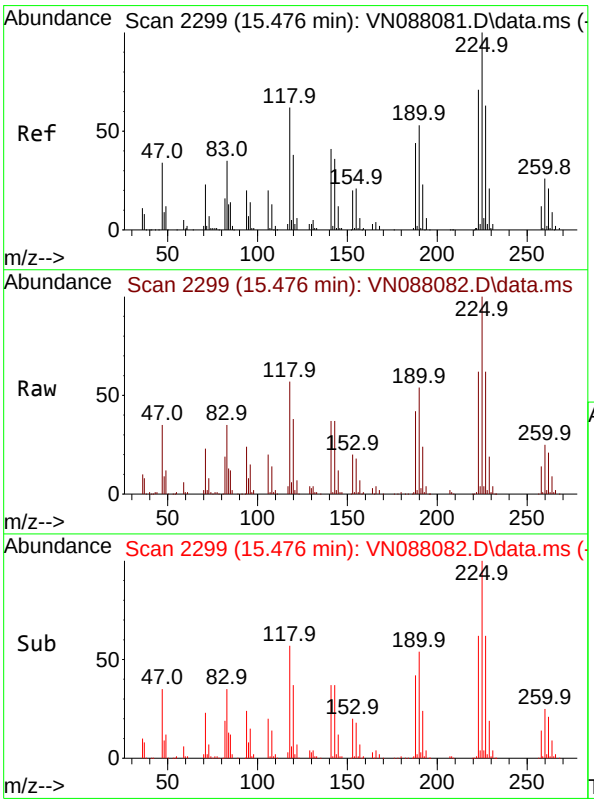
Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.6	142.9
145	32.9	16.5	49.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

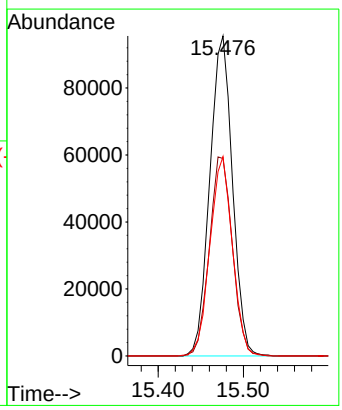
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

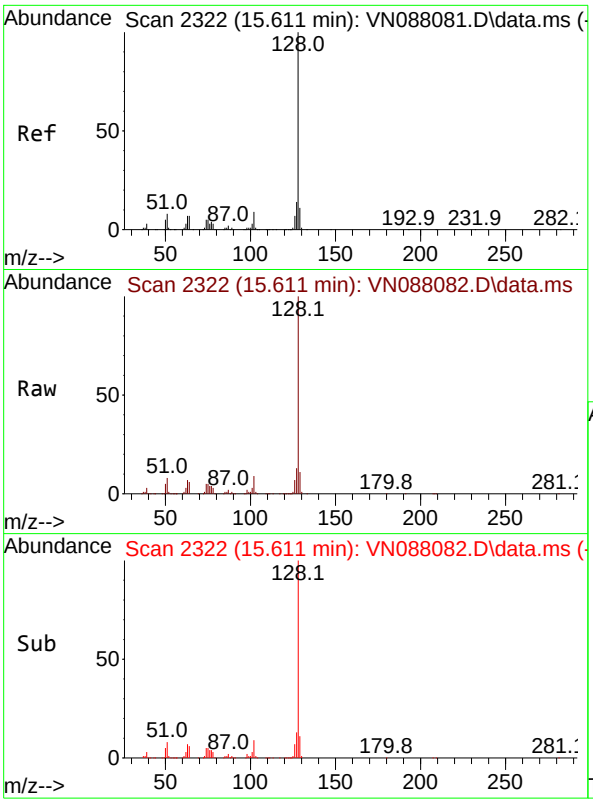


#94
Hexachlorobutadiene
Concen: 88.389 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:225 Resp: 176342

Ion	Ratio	Lower	Upper
225	100		
223	63.2	32.0	96.2
227	61.6	32.1	96.5

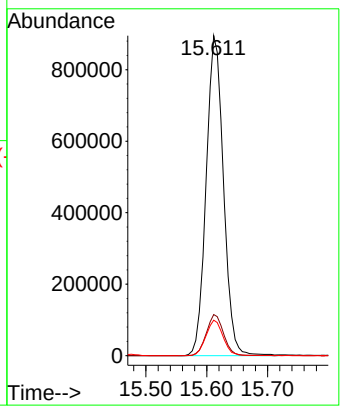




#95
Naphthalene
Concen: 96.473 ug/l
RT: 15.611 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:128 Resp: 177058

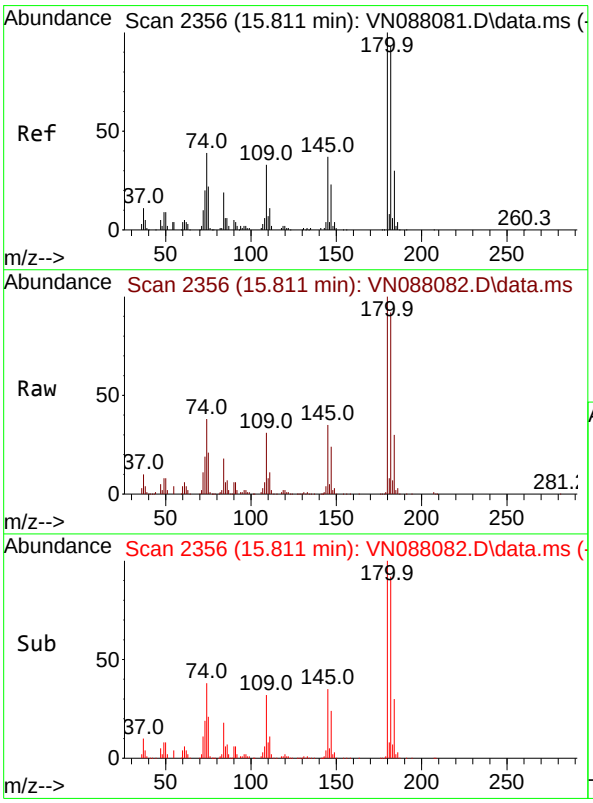
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	15.8
129	11.0	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

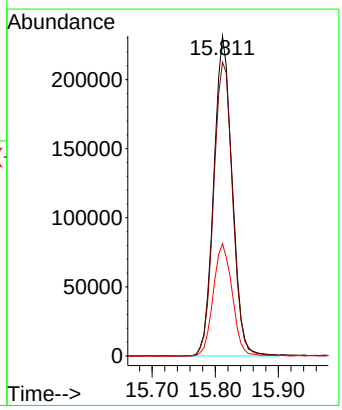
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 91.276 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. -0.000 min
Lab File: VN088082.D
Acq: 23 Oct 2025 11:41

Tgt Ion:180 Resp: 468875

Ion	Ratio	Lower	Upper
180	100		
182	95.0	46.8	140.3
145	36.1	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088083.D
Acq On : 23 Oct 2025 12:02
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Quant Time: Oct 24 02:44:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:37:20 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	317042	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	583838	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	513566	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	251277	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	829477	151.300	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 302.600%#			
35) Dibromofluoromethane	8.147	113	612902	156.263	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 312.520%#			
50) Toluene-d8	10.547	98	2423445	160.354	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 320.700%#			
62) 4-Bromofluorobenzene	12.823	95	855591	160.301	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 320.600%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	559446	156.435	ug/l	100
3) Chloromethane	2.383	50	636497	151.285	ug/l	100
4) Vinyl Chloride	2.536	62	709780	154.833	ug/l	98
5) Bromomethane	2.942	94	399041	145.533	ug/l	99
6) Chloroethane	3.118	64	483772	146.472	ug/l	100
7) Trichlorofluoromethane	3.506	101	1113526	152.297	ug/l	97
8) Diethyl Ether	3.959	74	418383	153.964	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	620616	164.495	ug/l	99
10) Methyl Iodide	4.577	142	579553	146.858	ug/l	98
11) Tert butyl alcohol	5.536	59	687112	727.499	ug/l	98
12) 1,1-Dichloroethene	4.336	96	605802	152.025	ug/l	99
13) Acrolein	4.171	56	868773	817.761	ug/l	99
14) Allyl chloride	5.006	41	1039367	149.252	ug/l	97
15) Acrylonitrile	5.706	53	1962438	762.784	ug/l	99
16) Acetone	4.418	43	2050839	744.611	ug/l	97
17) Carbon Disulfide	4.700	76	1802128	148.772	ug/l	99
18) Methyl Acetate	5.012	43	837402	148.512	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	2227290	152.197	ug/l	98
20) Methylene Chloride	5.259	84	650781	150.235	ug/l	98
21) trans-1,2-Dichloroethene	5.771	96	645153	146.416	ug/l	98
22) Diisopropyl ether	6.659	45	2329739	158.605	ug/l	99
23) Vinyl Acetate	6.589	43	10671220	806.501	ug/l	100
24) 1,1-Dichloroethane	6.553	63	1247462	153.312	ug/l	98
25) 2-Butanone	7.471	43	2779236	773.659	ug/l	99
26) 2,2-Dichloropropane	7.471	77	1131888	153.076	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	760672	151.064	ug/l	99
28) Bromochloromethane	7.794	49	596061	155.037	ug/l	97
29) Tetrahydrofuran	7.824	42	1817452	768.325	ug/l	100
30) Chloroform	7.947	83	1253456	154.201	ug/l	99
31) Cyclohexane	8.236	56	1181969	154.021	ug/l	95
32) 1,1,1-Trichloroethane	8.147	97	1103627	152.438	ug/l	96
36) 1,1-Dichloropropene	8.353	75	919113	160.490	ug/l	99
37) Ethyl Acetate	7.547	43	1144197	155.473	ug/l	98
38) Carbon Tetrachloride	8.341	117	956561	161.719	ug/l	96
39) Methylcyclohexane	9.577	83	1221844	165.983	ug/l	98
40) Benzene	8.588	78	2742115	157.221	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088083.D
Acq On : 23 Oct 2025 12:02
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 24 02:44:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:37:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.765	41	598399	153.840	ug/l		98
42) 1,2-Dichloroethane	8.653	62	970030	156.530	ug/l		100
43) Isopropyl Acetate	8.671	43	1833475	161.449	ug/l		98
44) Trichloroethene	9.335	130	646011	158.466	ug/l		95
45) 1,2-Dichloropropane	9.600	63	685501	155.683	ug/l		100
46) Dibromomethane	9.688	93	492395	156.795	ug/l		98
47) Bromodichloromethane	9.871	83	1002977	159.522	ug/l		98
48) Methyl methacrylate	9.659	41	858241	159.103	ug/l		96
49) 1,4-Dioxane	9.682	88	216888	3326.006	ug/l	#	100
51) 4-Methyl-2-Pentanone	10.424	43	5433828	808.811	ug/l		99
52) Toluene	10.606	92	1731531	161.024	ug/l		97
53) t-1,3-Dichloropropene	10.812	75	1142477	170.728	ug/l		99
54) cis-1,3-Dichloropropene	10.294	75	1176069	165.622	ug/l		95
55) 1,1,2-Trichloroethane	10.994	97	621088	152.240	ug/l		97
56) Ethyl methacrylate	10.853	69	1139330	176.733	ug/l		97
57) 1,3-Dichloropropane	11.141	76	1133717	158.102	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.141	63	3047762	907.564	ug/l		100
59) 2-Hexanone	11.177	43	3910437	886.644	ug/l		99
60) Dibromochloromethane	11.341	129	763098	164.568	ug/l		99
61) 1,2-Dibromoethane	11.447	107	679250	161.779	ug/l		99
64) Tetrachloroethene	11.082	164	530165	156.503	ug/l		94
65) Chlorobenzene	11.871	112	1860929	159.579	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.935	131	611842	160.145	ug/l		99
67) Ethyl Benzene	11.941	91	3353341	163.821	ug/l		100
68) m/p-Xylenes	12.047	106	2548912	332.341	ug/l		96
69) o-Xylene	12.376	106	1207897	166.137	ug/l		98
70) Styrene	12.388	104	2041763	172.216	ug/l		100
71) Bromoform	12.559	173	493476	173.079	ug/l	#	98
73) Isopropylbenzene	12.671	105	3220528	166.175	ug/l		99
74) N-amyl acetate	12.482	43	1157298	151.264	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.918	83	957146	158.633	ug/l		100
76) 1,2,3-Trichloropropane	12.971	75	880864m	163.762	ug/l		
77) Bromobenzene	12.959	156	680258	162.773	ug/l		100
78) n-propylbenzene	13.012	91	3932907	166.291	ug/l		98
79) 2-Chlorotoluene	13.100	91	2271825	168.438	ug/l		100
80) 1,3,5-Trimethylbenzene	13.147	105	2676801	166.308	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.712	75	383072	185.532	ug/l	#	79
82) 4-Chlorotoluene	13.200	91	2338686	160.269	ug/l		98
83) tert-Butylbenzene	13.418	119	2359884	164.130	ug/l		97
84) 1,2,4-Trimethylbenzene	13.459	105	2631783	163.426	ug/l		98
85) sec-Butylbenzene	13.594	105	3479715	164.725	ug/l		100
86) p-Isopropyltoluene	13.706	119	2852012	168.299	ug/l		99
87) 1,3-Dichlorobenzene	13.712	146	1336615	160.211	ug/l		100
88) 1,4-Dichlorobenzene	13.788	146	1384247	154.079	ug/l		100
89) n-Butylbenzene	14.029	91	2811417	167.487	ug/l		98
90) Hexachloroethane	14.306	117	554569	168.991	ug/l		97
91) 1,2-Dichlorobenzene	14.082	146	1314340	163.434	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	229843	163.663	ug/l		95
93) 1,2,4-Trichlorobenzene	15.364	180	833168	171.067	ug/l		99
94) Hexachlorobutadiene	15.476	225	297412	163.980	ug/l		99
95) Naphthalene	15.612	128	3005848	180.155	ug/l		99
96) 1,2,3-Trichlorobenzene	15.812	180	800234	171.359	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088083.D
Acq On : 23 Oct 2025 12:02
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 24 02:44:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:37:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

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

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

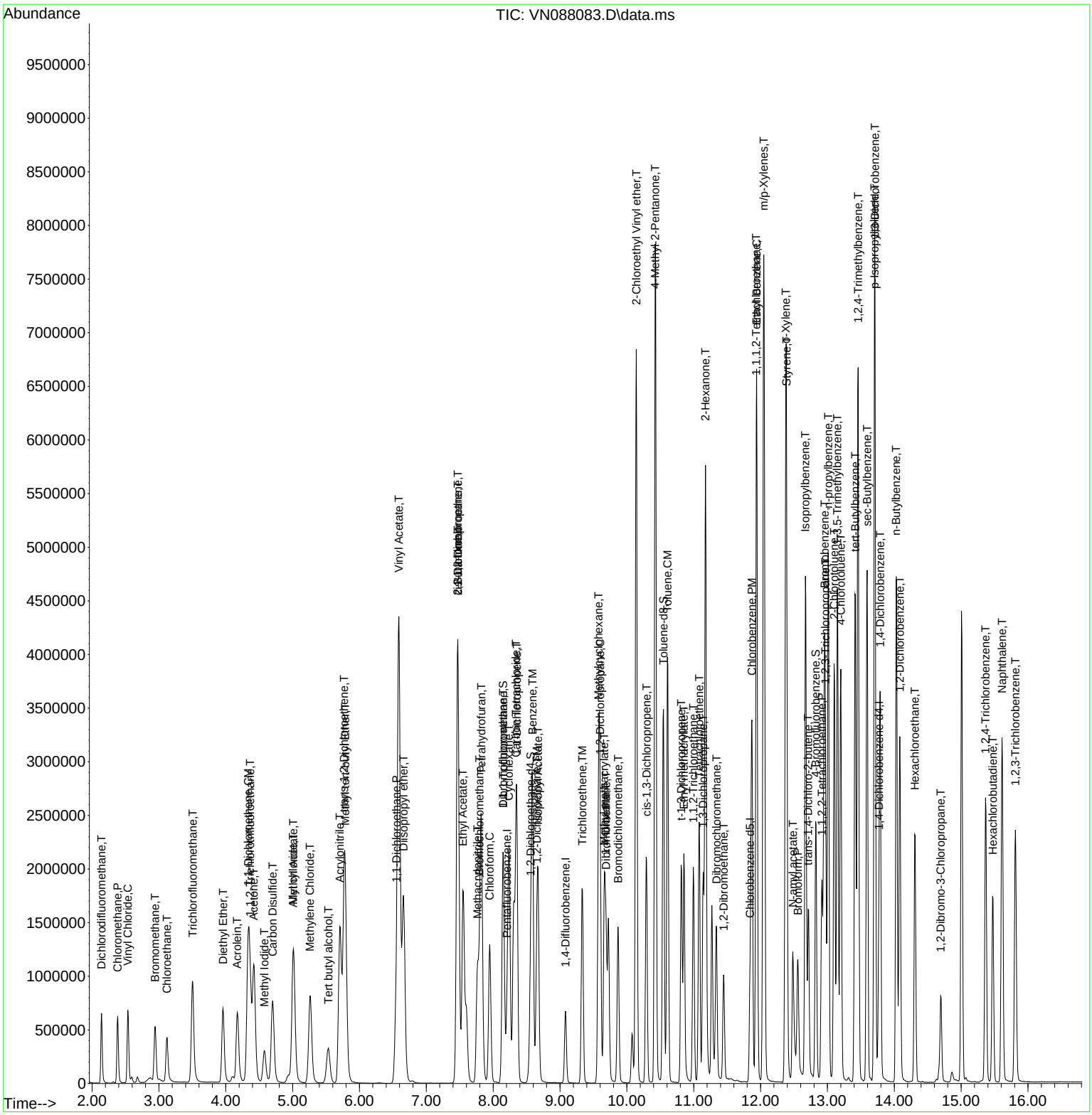
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Data File : VN088083.D
Acq On : 23 Oct 2025 12:02
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

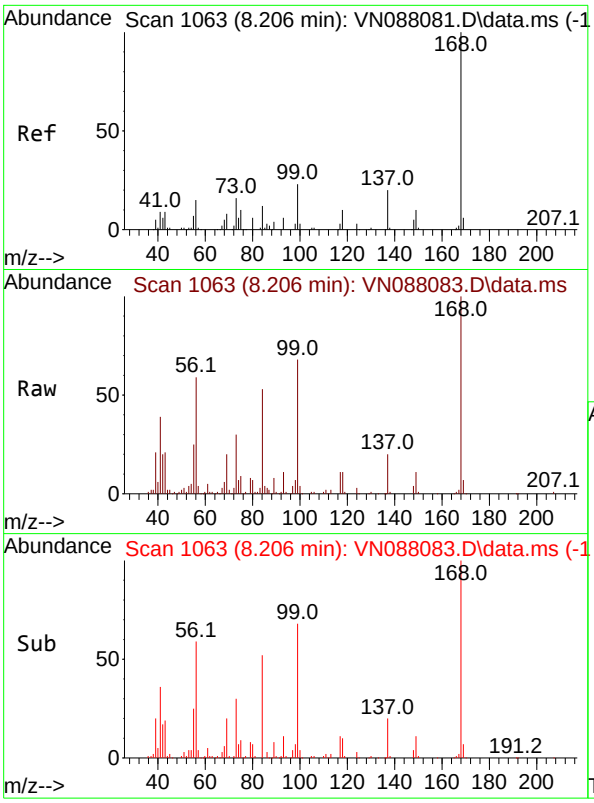
Quant Time: Oct 24 02:44:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 02:37:20 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

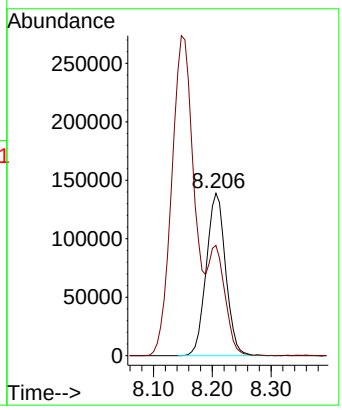




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:168 Resp: 31704

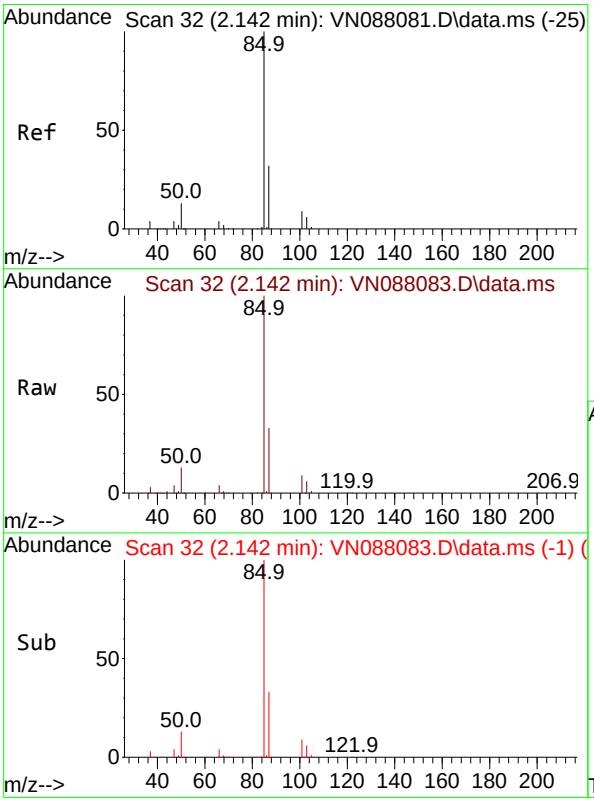
Ion	Ratio	Lower	Upper
168	100		
99	67.6	57.2	85.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

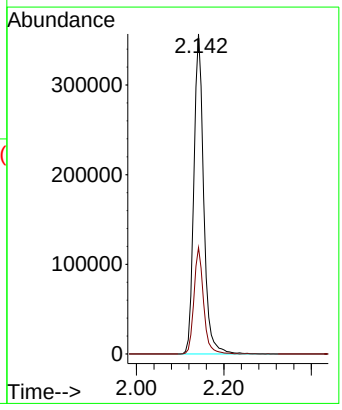
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

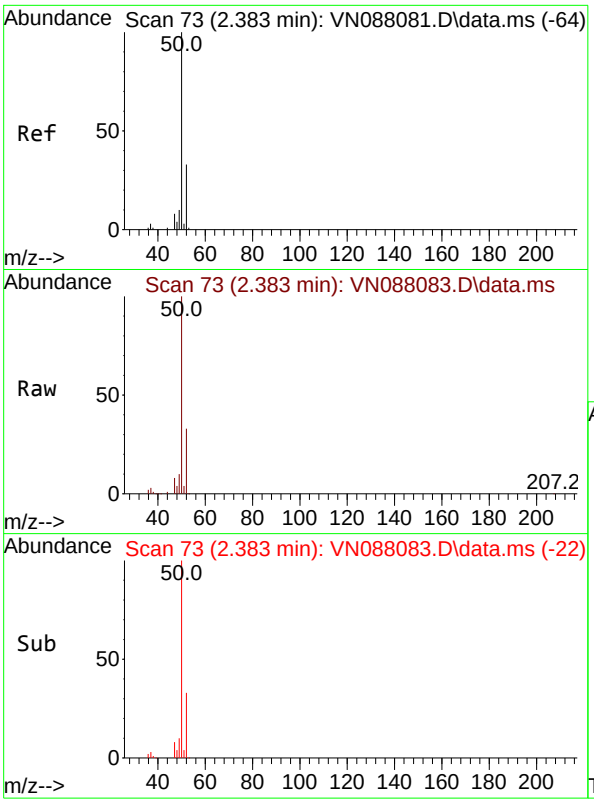


#2
Dichlorodifluoromethane
Concen: 156.435 ug/l
RT: 2.142 min Scan# 32
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 85 Resp: 559446

Ion	Ratio	Lower	Upper
85	100		
87	33.2	16.6	49.8

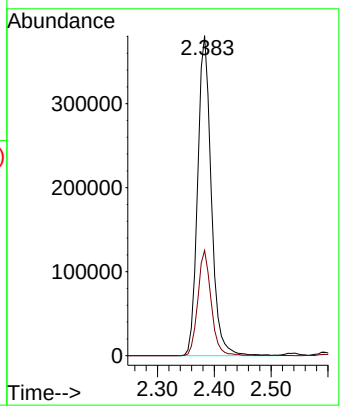




#3
Chloromethane
Concen: 151.285 ug/l
RT: 2.383 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 50 Resp: 63649

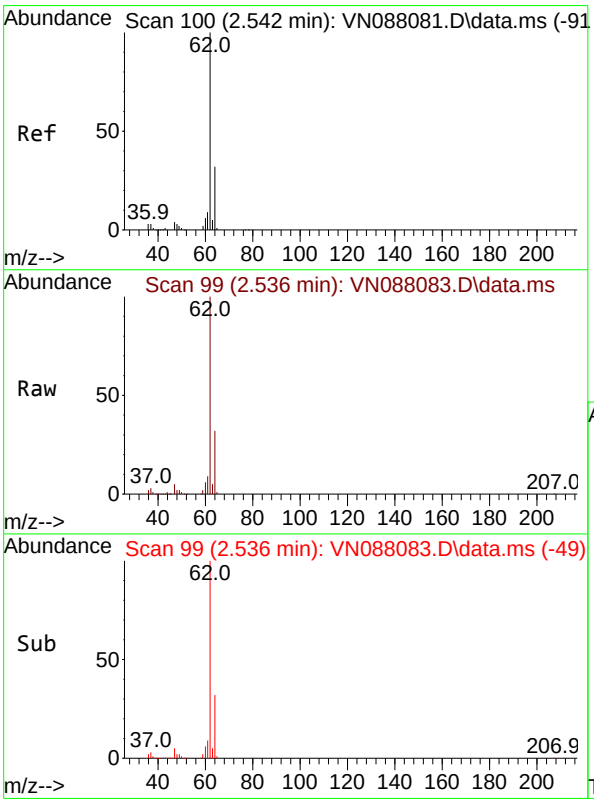
Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

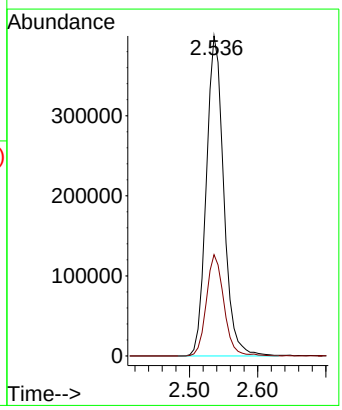
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

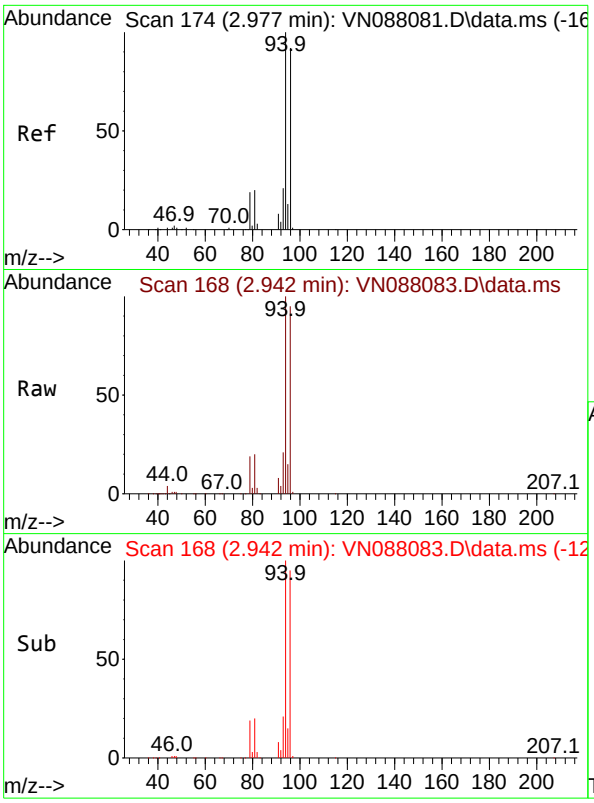


#4
Vinyl Chloride
Concen: 154.833 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 62 Resp: 709780

Ion	Ratio	Lower	Upper
62	100		
64	31.7	24.6	37.0

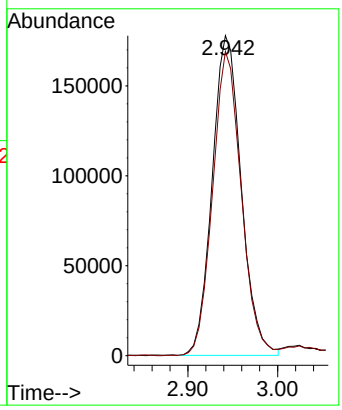




#5
Bromomethane
Concen: 145.533 ug/l
RT: 2.942 min Scan# 1
Delta R.T. -0.029 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 94 Resp: 39904

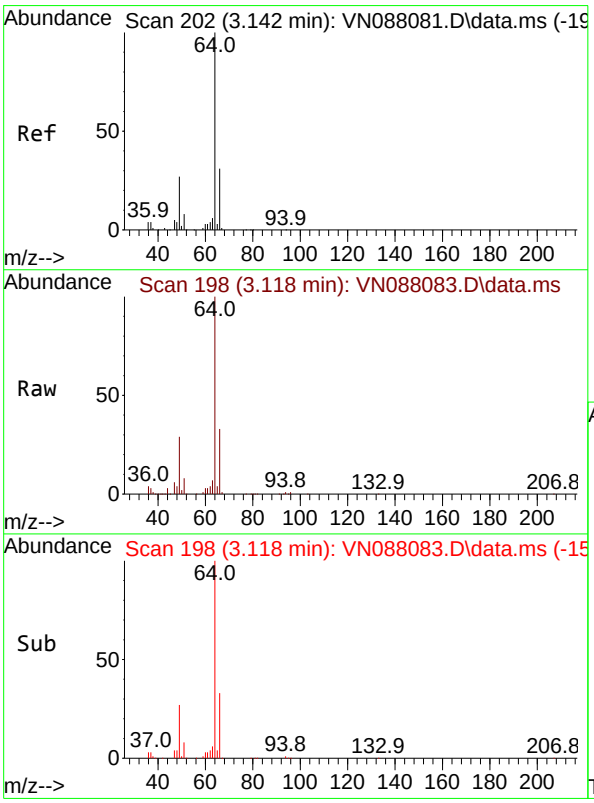
Ion	Ratio	Lower	Upper
94	100		
96	95.1	75.4	113.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

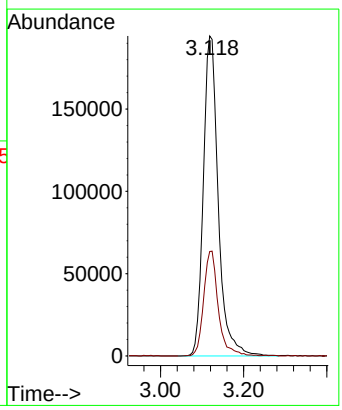
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

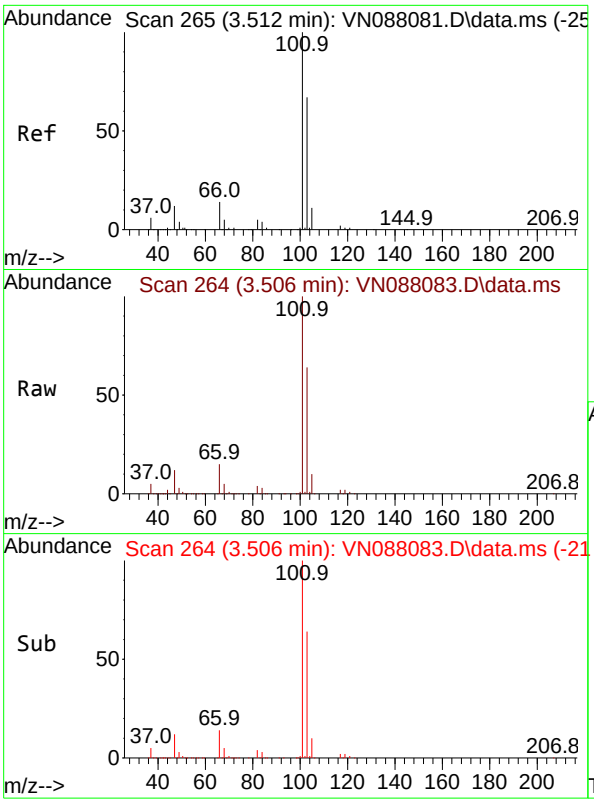


#6
Chloroethane
Concen: 146.472 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.018 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 64 Resp: 483772

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.2	39.2

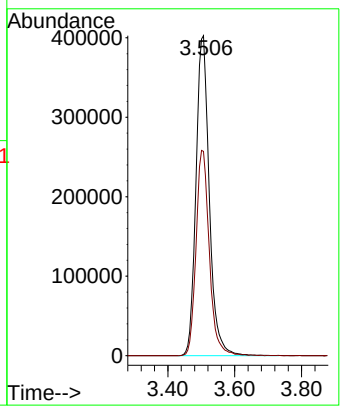




#7
Trichlorofluoromethane
Concen: 152.297 ug/l
RT: 3.506 min Scan# 2
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:101 Resp: 111352

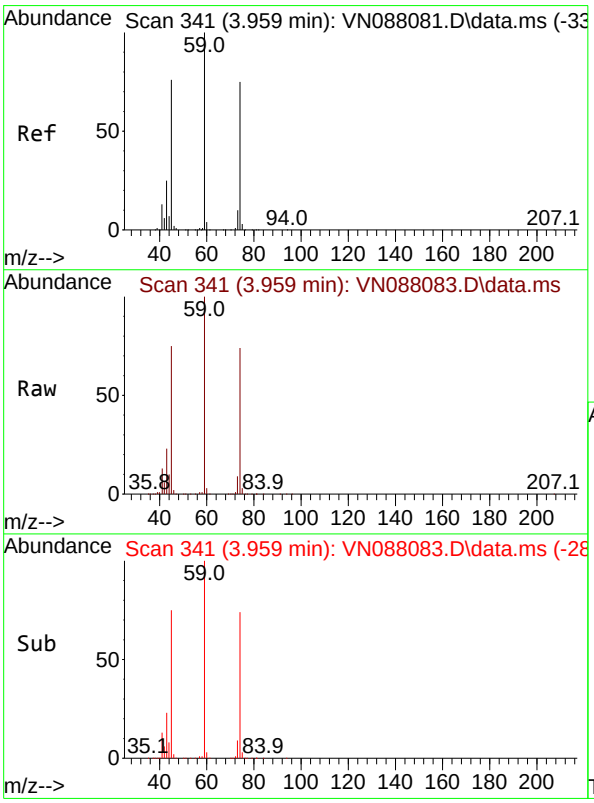
Ion	Ratio	Lower	Upper
101	100		
103	63.9	49.4	74.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

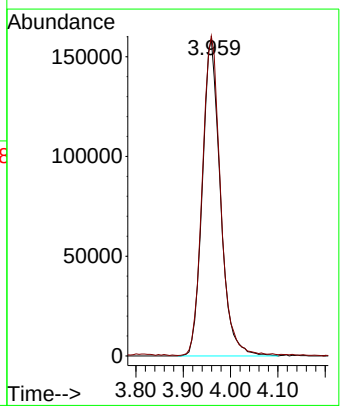
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

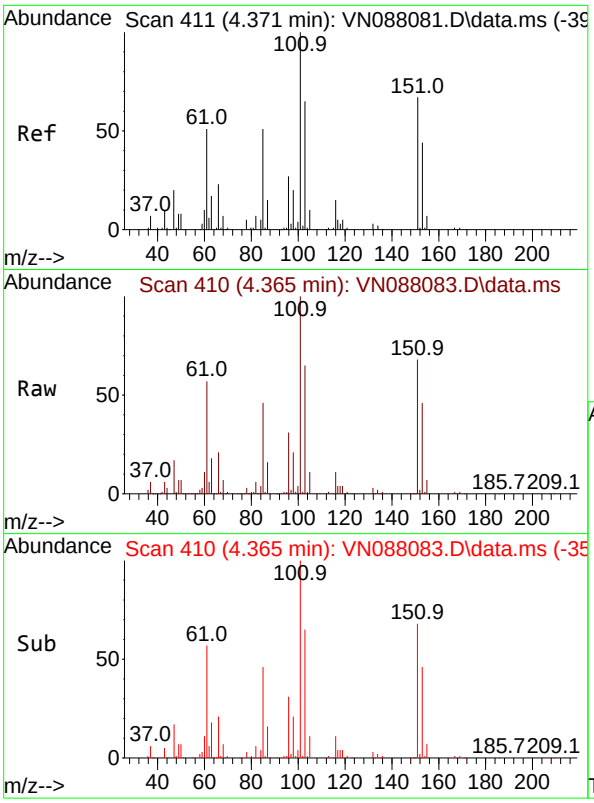


#8
Diethyl Ether
Concen: 153.964 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 74 Resp: 418383

Ion	Ratio	Lower	Upper
74	100		
45	102.4	50.6	151.9

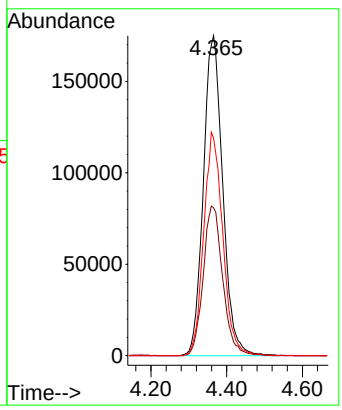




#9
1,1,2-Trichlorotrifluoroethane
Concen: 164.495 ug/l
RT: 4.365 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:101 Resp: 62061

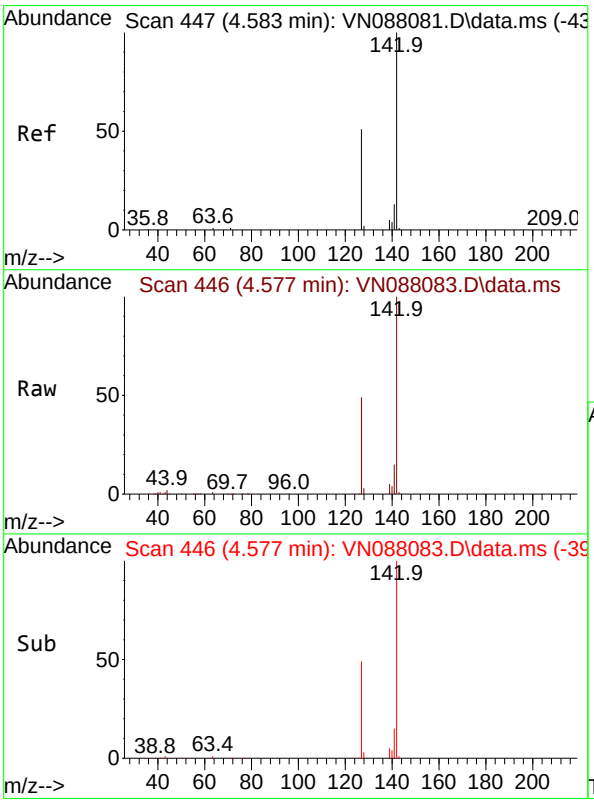
Ion	Ratio	Lower	Upper
101	100		
85	47.1	36.6	55.0
151	68.7	54.7	82.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

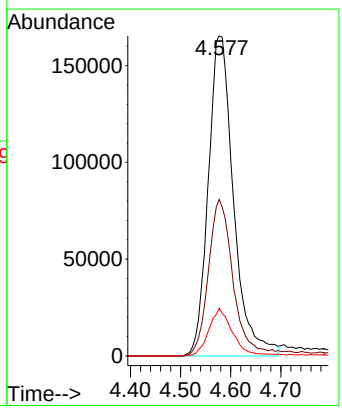
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

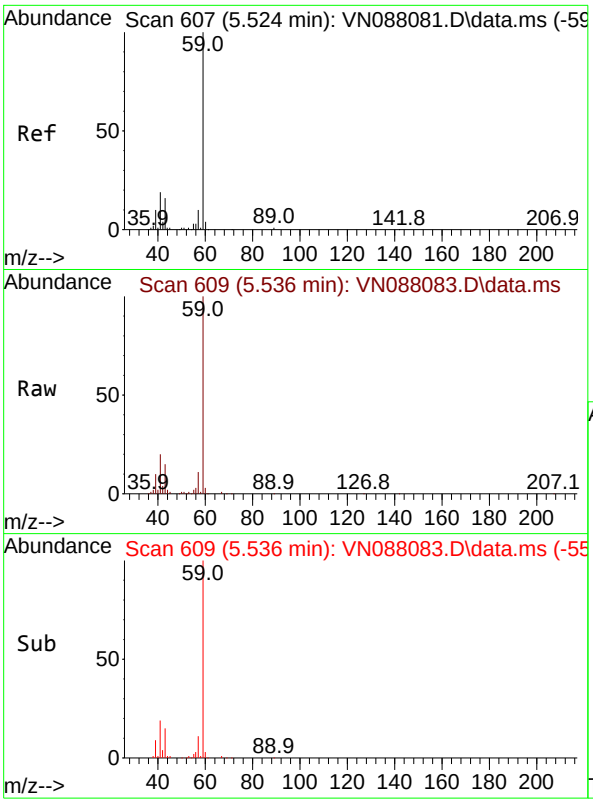


#10
Methyl Iodide
Concen: 146.858 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:142 Resp: 579553

Ion	Ratio	Lower	Upper
142	100		
127	48.9	38.0	57.0
141	14.9	12.0	18.0

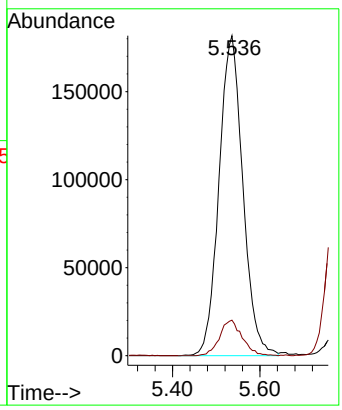




#11
Tert butyl alcohol
Concen: 727.499 ug/l
RT: 5.536 min Scan# 6
Delta R.T. 0.018 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 59 Resp: 68711

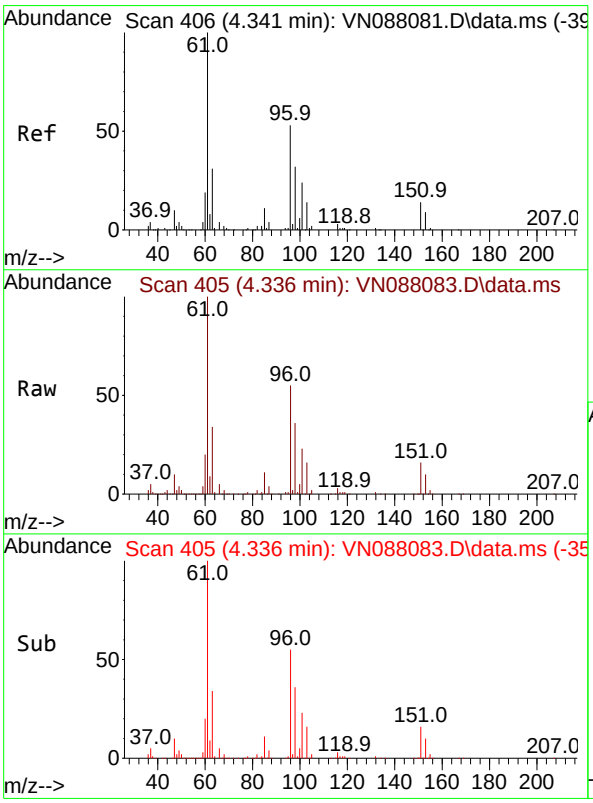
Ion	Ratio	Lower	Upper
59	100		
57	10.5	9.0	13.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

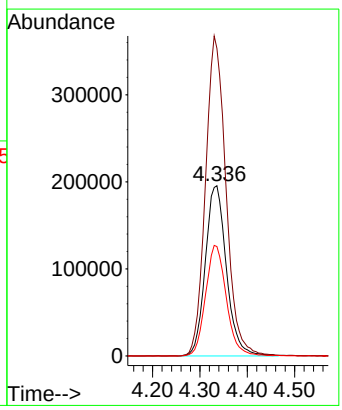
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

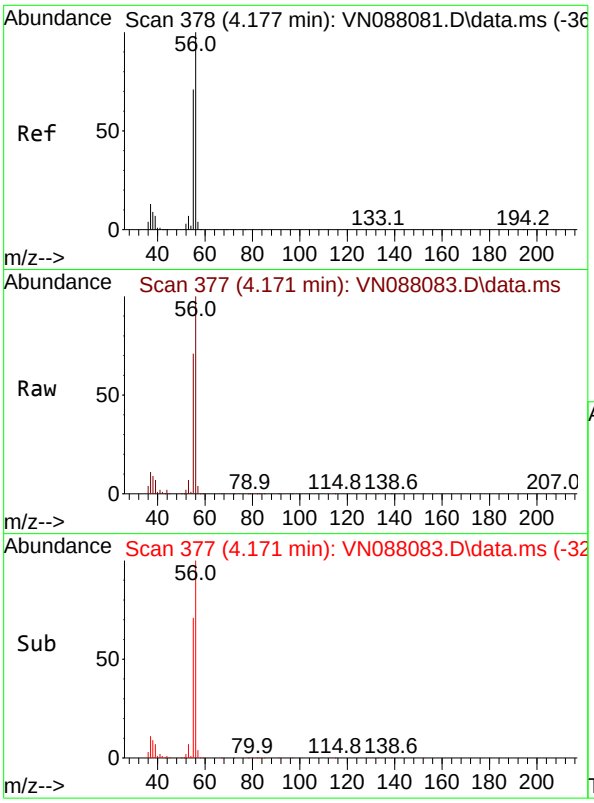


#12
1,1-Dichloroethene
Concen: 152.025 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 96 Resp: 605802

Ion	Ratio	Lower	Upper
96	100		
61	180.7	143.8	215.8
98	64.3	52.1	78.1

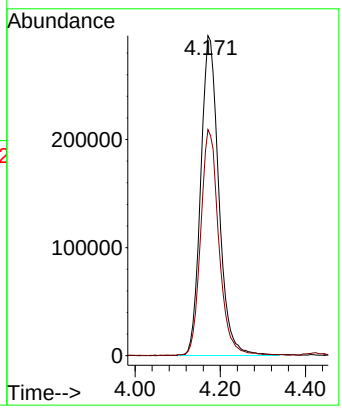




#13
Acrolein
Concen: 817.761 ug/l
RT: 4.171 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 56 Resp: 86877

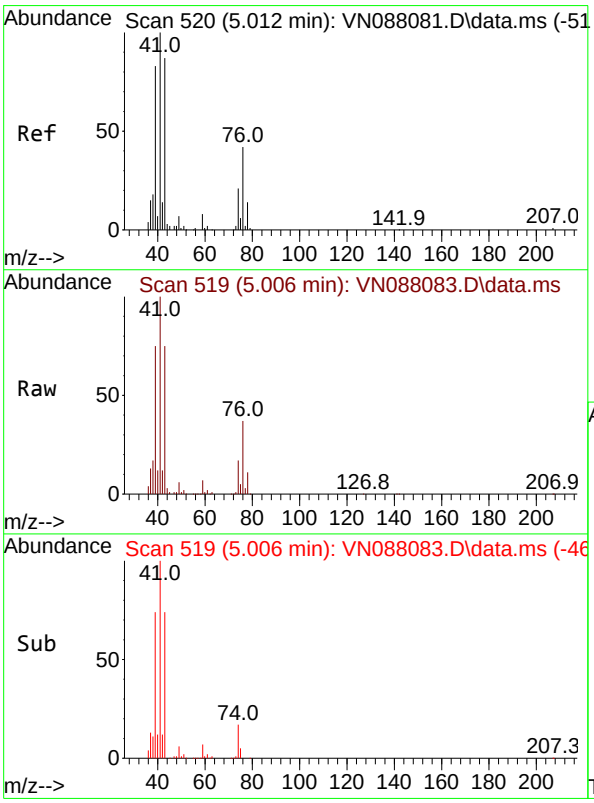
Ion	Ratio	Lower	Upper
56	100		
55	71.0	57.3	85.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

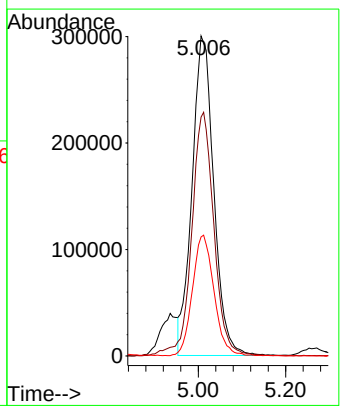
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

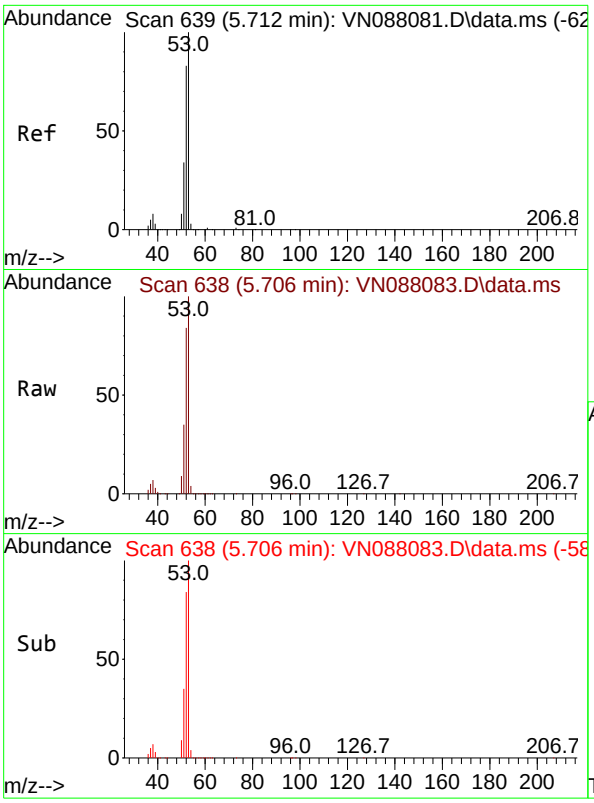


#14
Allyl chloride
Concen: 149.252 ug/l
RT: 5.006 min Scan# 519
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 41 Resp: 1039367

Ion	Ratio	Lower	Upper
41	100		
39	78.0	63.9	95.9
76	37.3	28.1	42.1

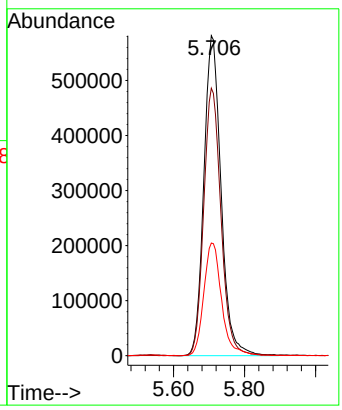




#15
Acrylonitrile
Concen: 762.784 ug/l
RT: 5.706 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 53 Resp: 196243

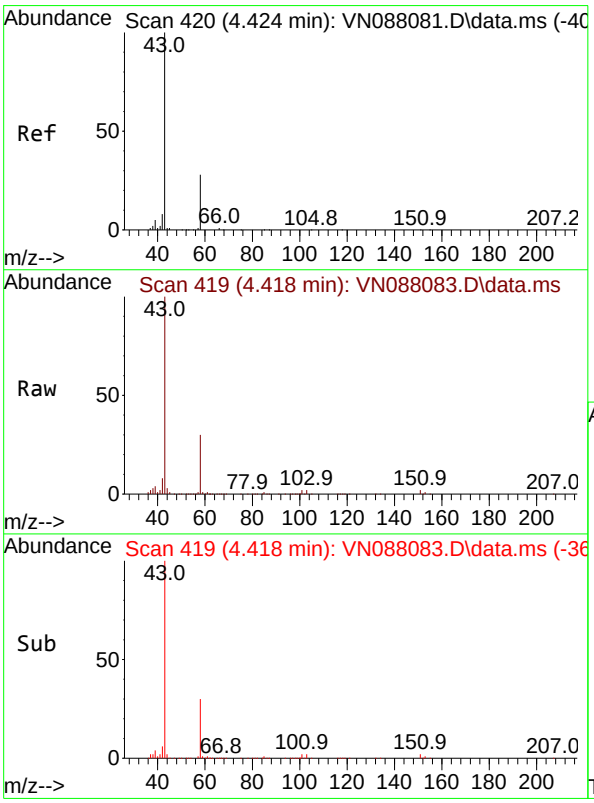
Ion	Ratio	Lower	Upper
53	100		
52	83.8	67.6	101.4
51	36.5	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

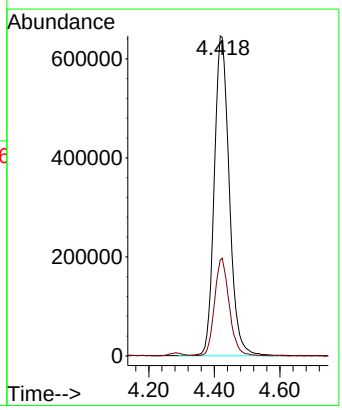
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

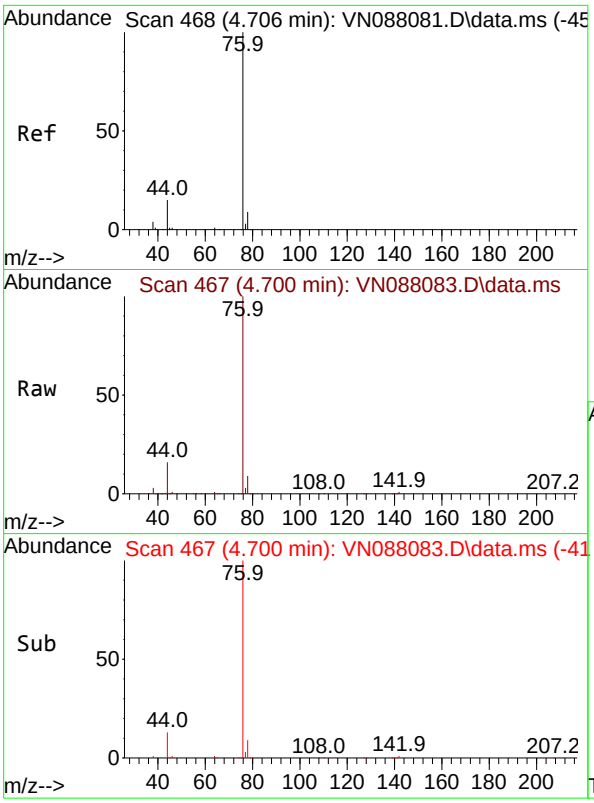


#16
Acetone
Concen: 744.611 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 43 Resp: 2050839

Ion	Ratio	Lower	Upper
43	100		
58	30.0	22.6	33.8

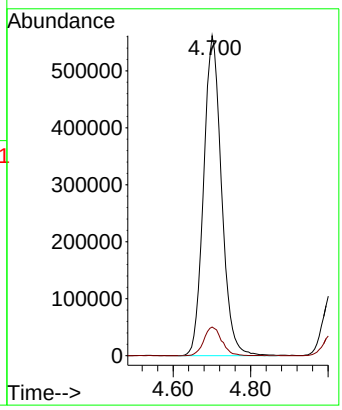




#17
Carbon Disulfide
Concen: 148.772 ug/l
RT: 4.700 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 76 Resp: 180212

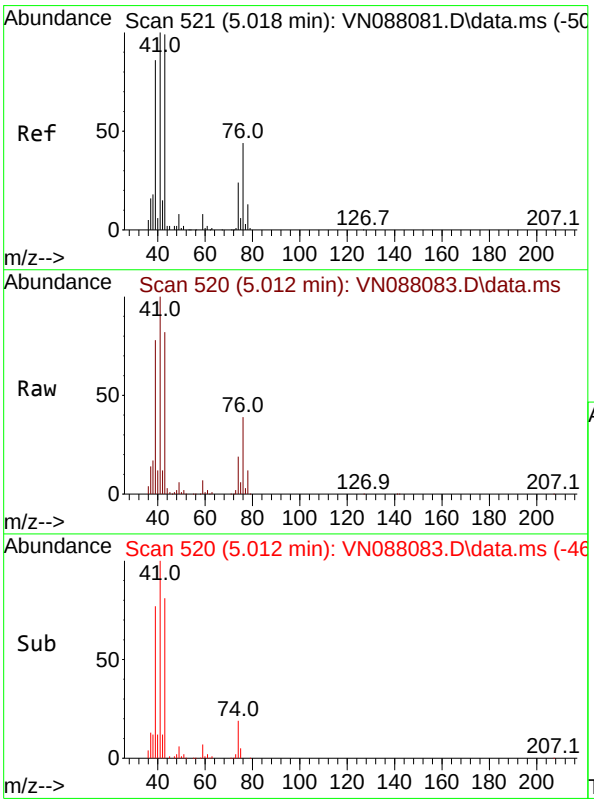
Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.6	11.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

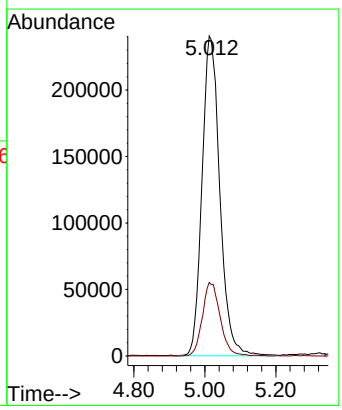
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

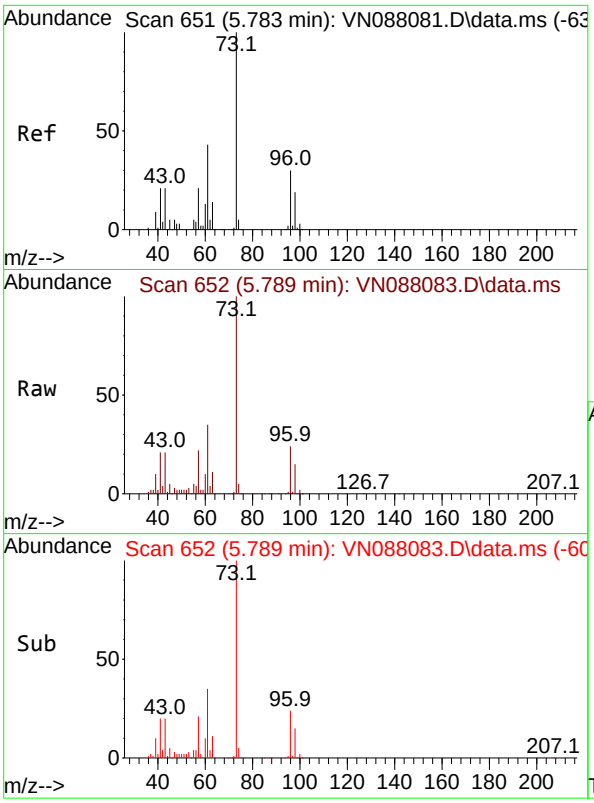


#18
Methyl Acetate
Concen: 148.512 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 43 Resp: 837402

Ion	Ratio	Lower	Upper
43	100		
74	23.0	17.6	26.4

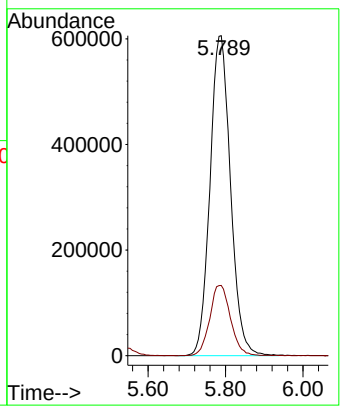




#19
Methyl tert-butyl Ether
Concen: 152.197 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 73 Resp: 222729

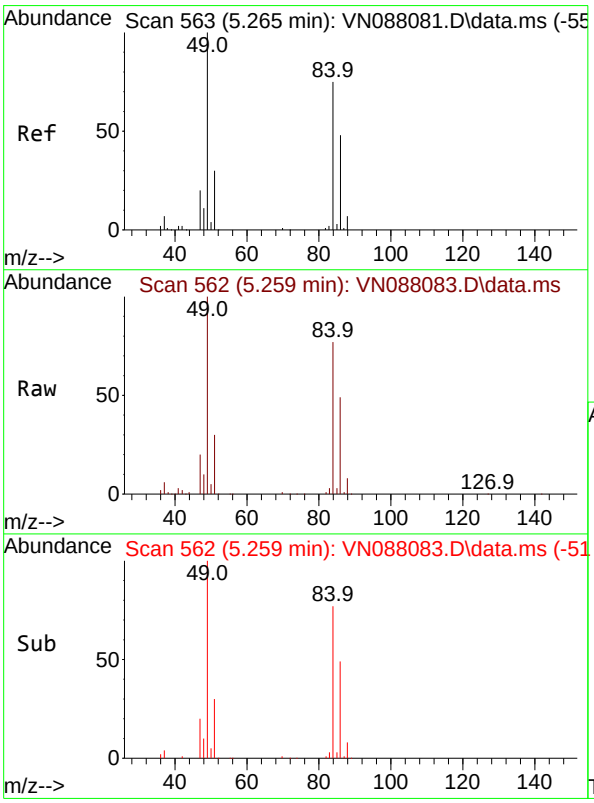
Ion	Ratio	Lower	Upper
73	100		
57	21.9	18.4	27.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

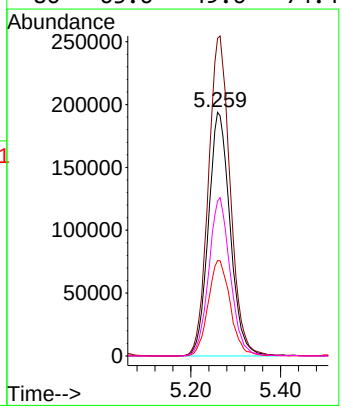
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

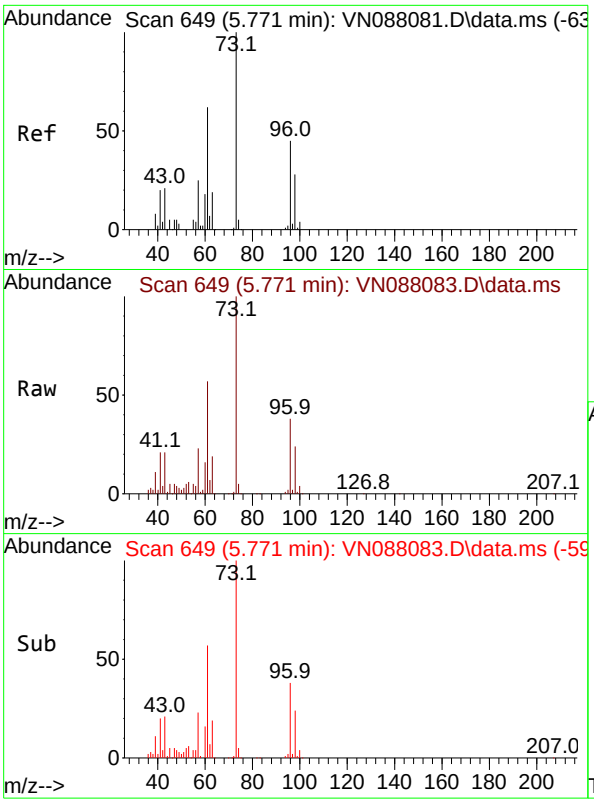


#20
Methylene Chloride
Concen: 150.235 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 84 Resp: 650781

Ion	Ratio	Lower	Upper
84	100		
49	130.3	103.4	155.2
51	39.1	33.8	50.8
86	63.6	49.6	74.4

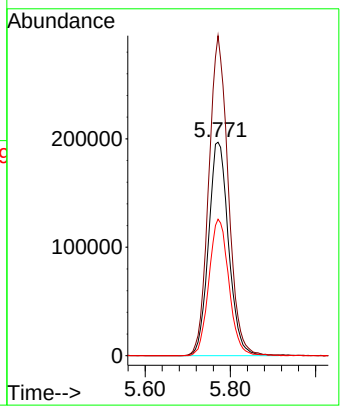




#21
trans-1,2-Dichloroethene
Concen: 146.416 ug/l
RT: 5.771 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 96 Resp: 64515

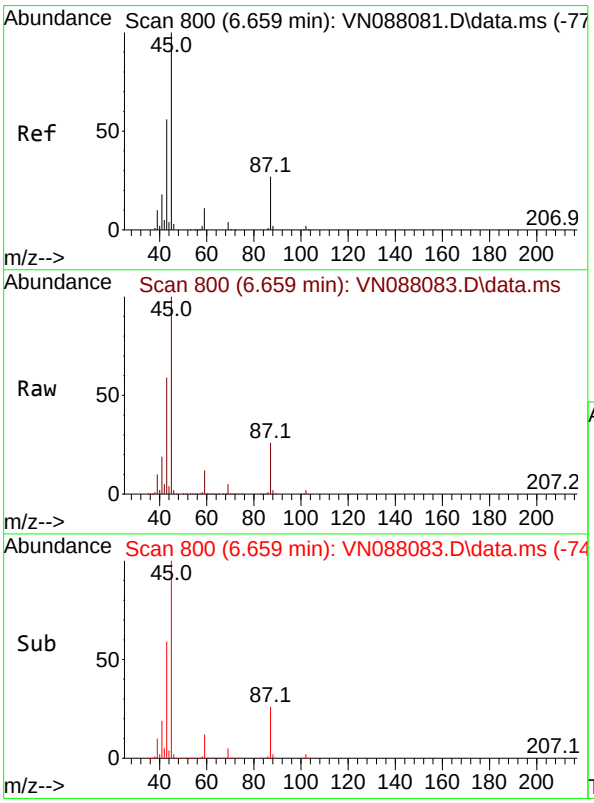
Ion	Ratio	Lower	Upper
96	100		
61	149.9	118.0	177.0
98	63.9	50.0	75.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

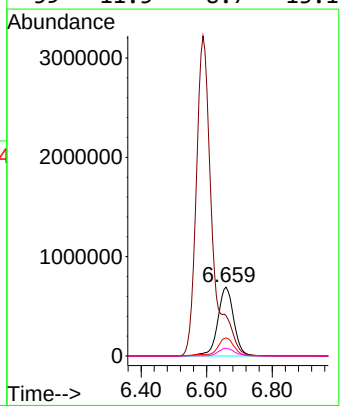
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

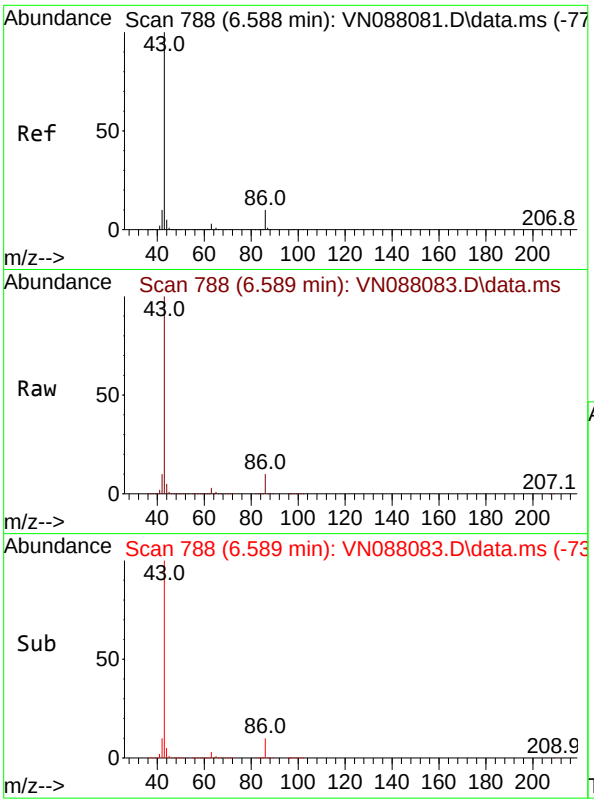


#22
Diisopropyl ether
Concen: 158.605 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 45 Resp: 2329739

Ion	Ratio	Lower	Upper
45	100		
43	58.5	47.7	71.5
87	26.3	21.4	32.0
59	11.5	8.7	13.1

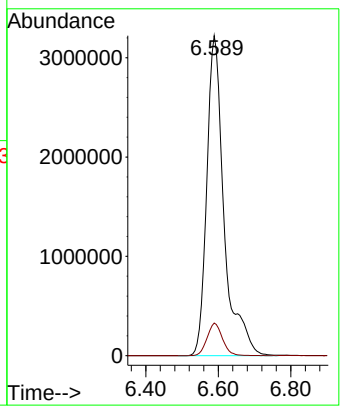




#23
Vinyl Acetate
Concen: 806.501 ug/l
RT: 6.589 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 43 Resp:1067122

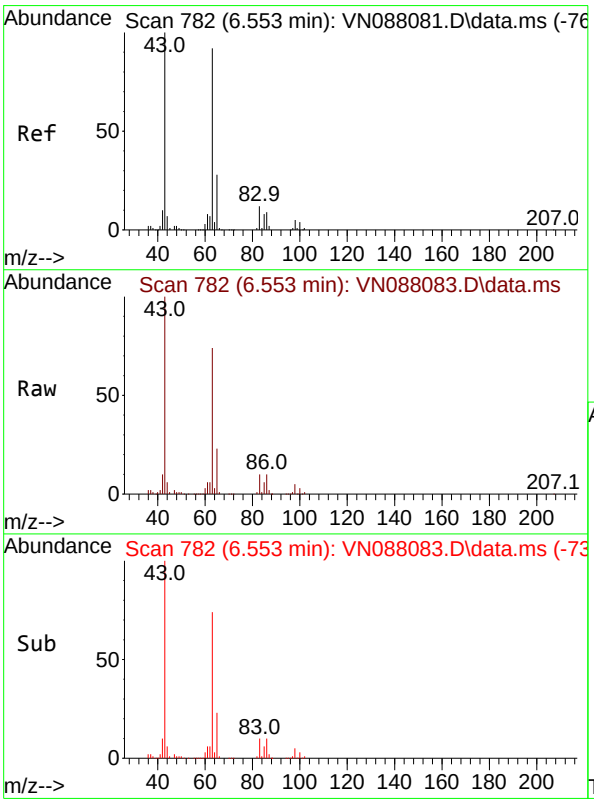
Ion	Ratio	Lower	Upper
43	100		
86	10.2	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

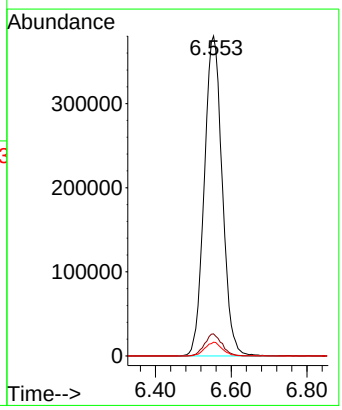
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

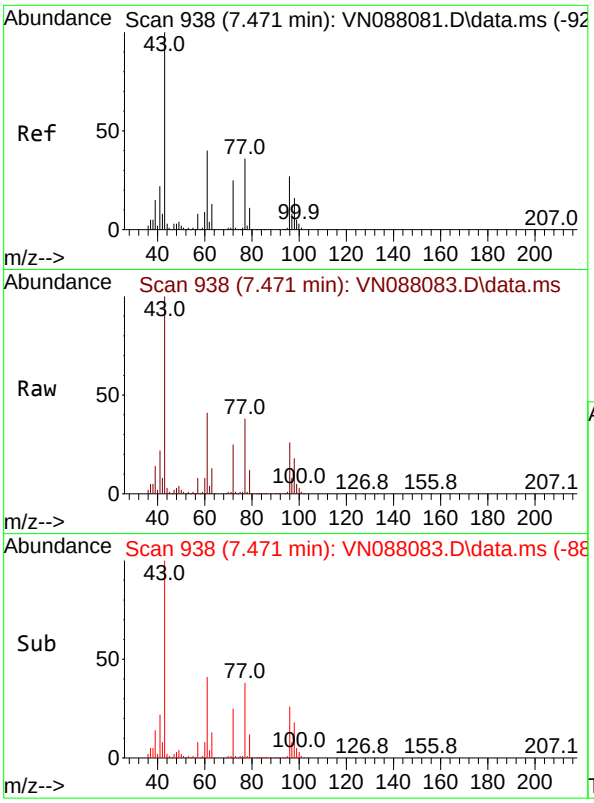


#24
1,1-Dichloroethane
Concen: 153.312 ug/l
RT: 6.553 min Scan# 782
Delta R.T. 0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 63 Resp: 1247462

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.8	11.4
100	4.3	2.0	6.0

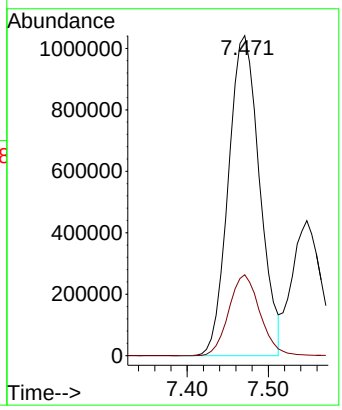




#25
2-Butanone
Concen: 773.659 ug/l
RT: 7.471 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 43 Resp: 277923

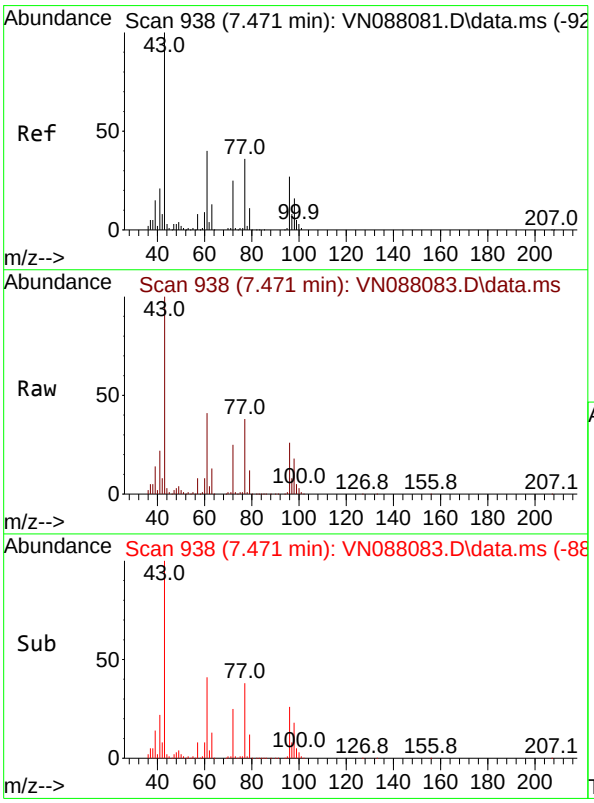
Ion	Ratio	Lower	Upper
43	100		
72	25.3	19.9	29.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

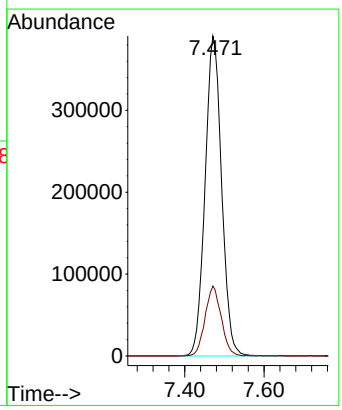
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

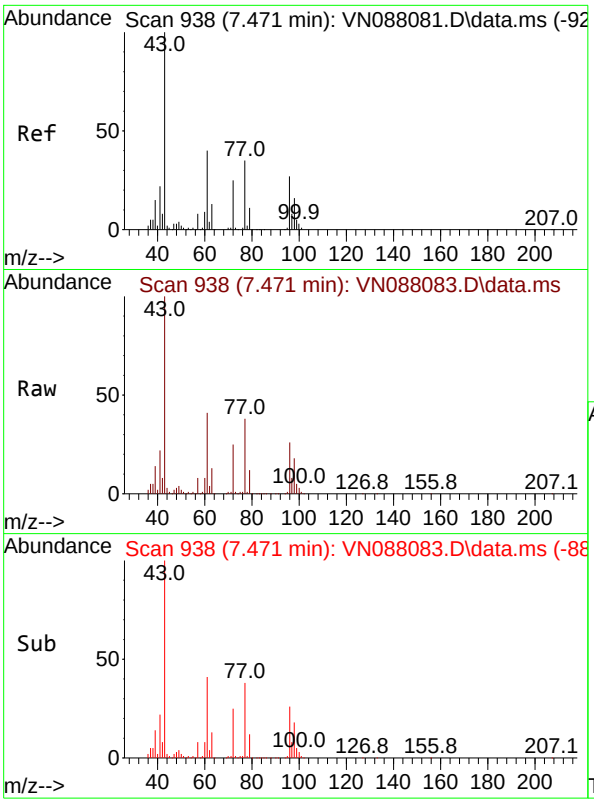


#26
2,2-Dichloropropane
Concen: 153.076 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 77 Resp: 1131888

Ion	Ratio	Lower	Upper
77	100		
97	21.3	10.9	32.7

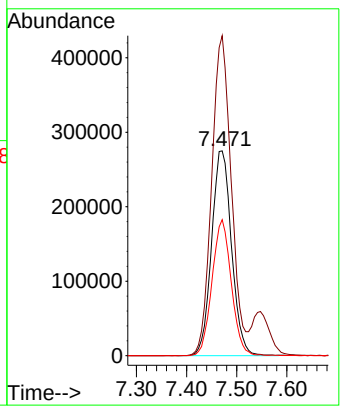




#27
cis-1,2-Dichloroethene
Concen: 151.064 ug/l
RT: 7.471 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 96 Resp: 76067

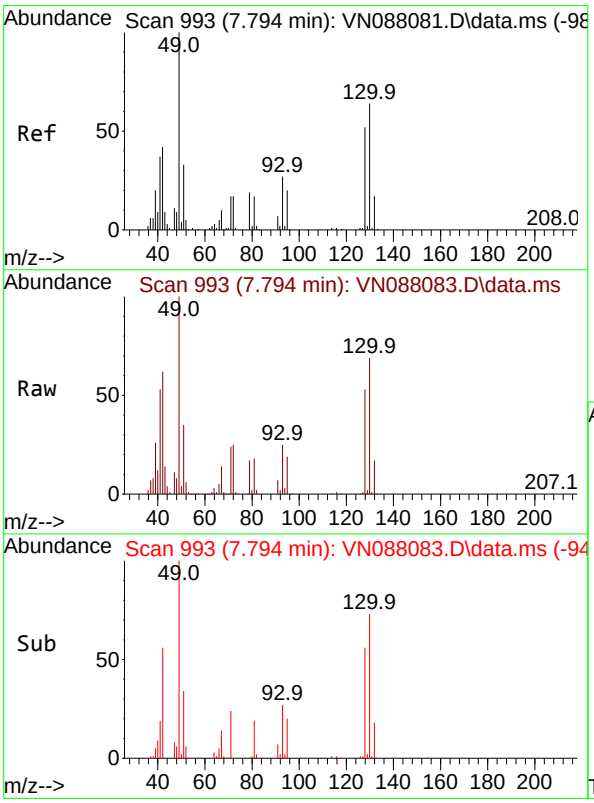
Ion	Ratio	Lower	Upper
96	100		
61	152.8	0.0	301.8
98	64.0	0.0	126.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

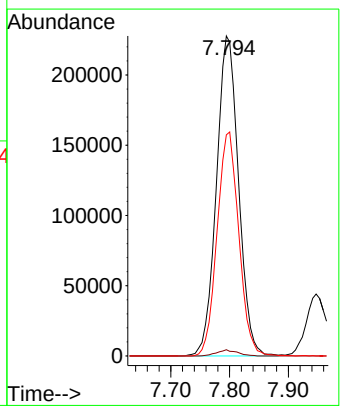
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

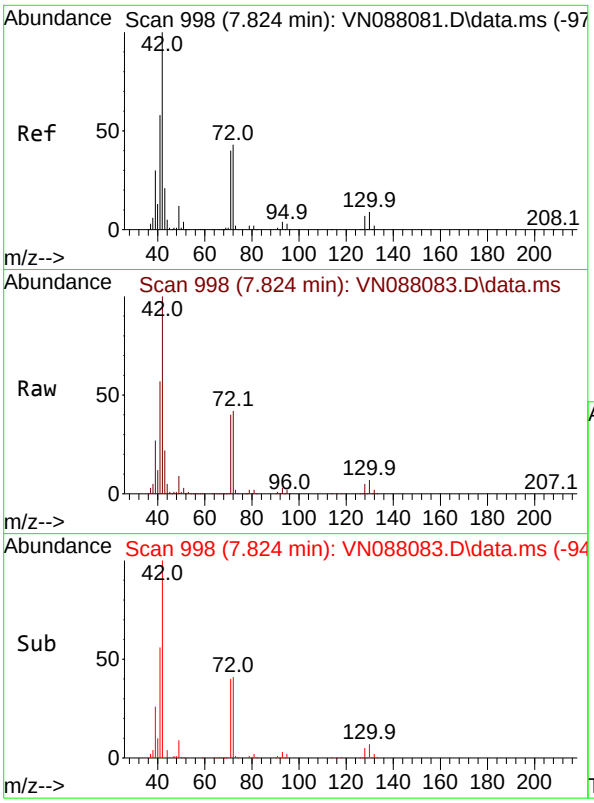


#28
Bromochloromethane
Concen: 155.037 ug/l
RT: 7.794 min Scan# 993
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 49 Resp: 596061

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.0
130	68.7	53.1	79.7





#29
Tetrahydrofuran
Concen: 768.325 ug/l
RT: 7.824 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

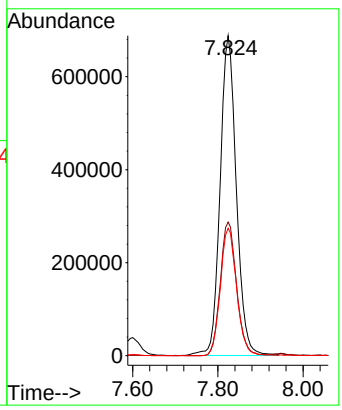
Tgt Ion: 42 Resp: 181745

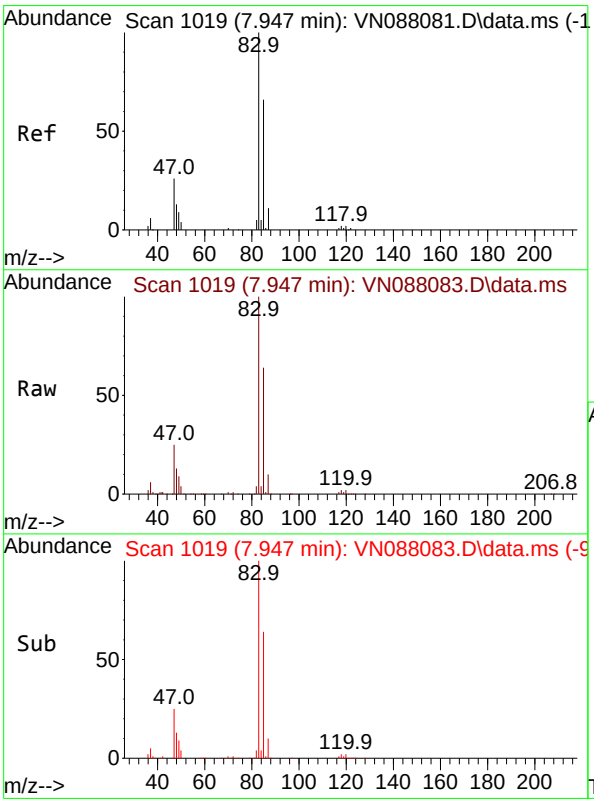
Ion	Ratio	Lower	Upper
42	100		
72	42.0	33.7	50.5
71	39.8	31.9	47.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

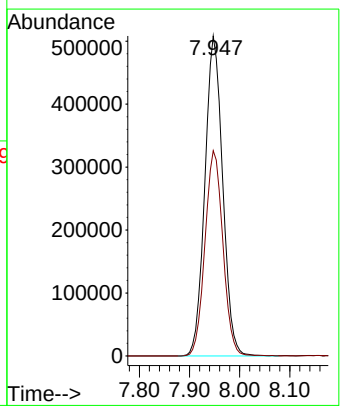


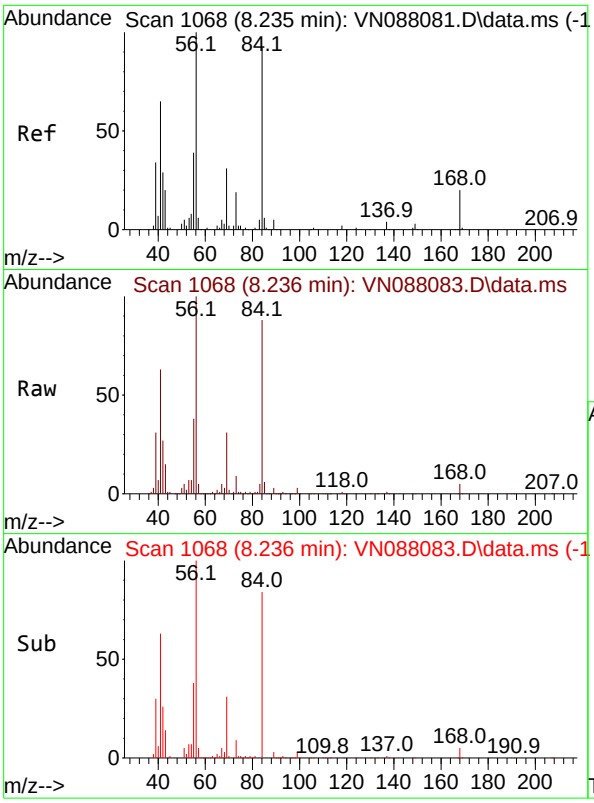


#30
Chloroform
Concen: 154.201 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 83 Resp: 1253456

Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.7	76.1

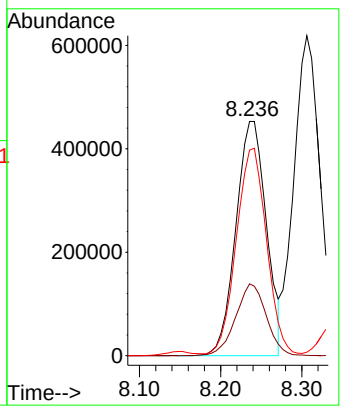




#31
Cyclohexane
Concen: 154.021 ug/l
RT: 8.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 56 Resp: 118196

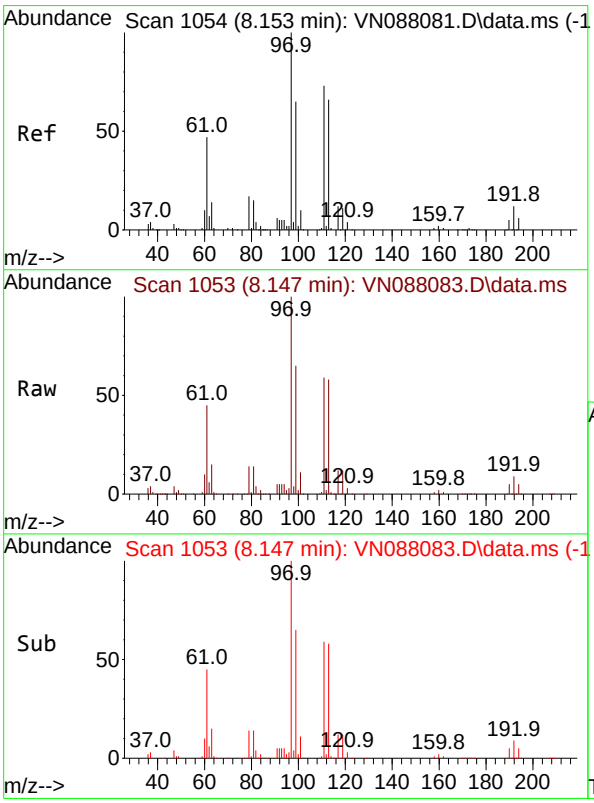
Ion	Ratio	Lower	Upper
56	100		
69	30.6	23.7	35.5
84	85.9	64.7	97.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

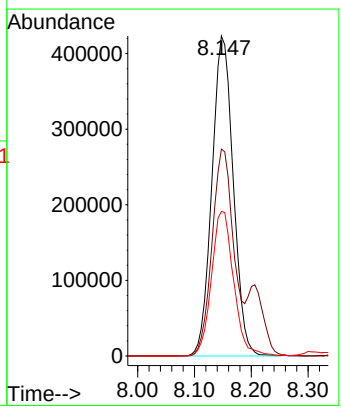
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

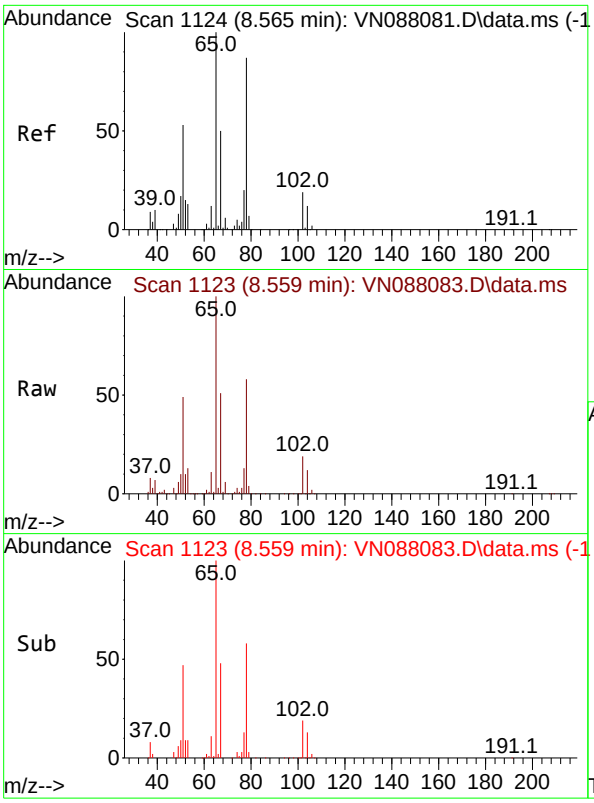


#32
1,1,1-Trichloroethane
Concen: 152.438 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 97 Resp: 1103627

Ion	Ratio	Lower	Upper
97	100		
99	66.4	52.2	78.2
61	47.0	41.2	61.8

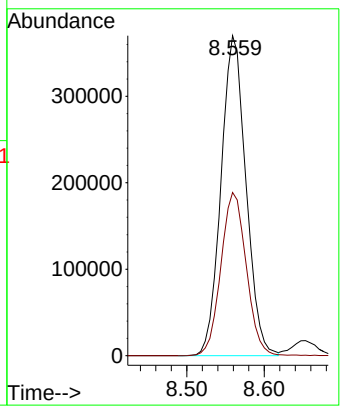




#33
1,2-Dichloroethane-d4
Concen: 151.300 ug/l
RT: 8.559 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 65 Resp: 82947

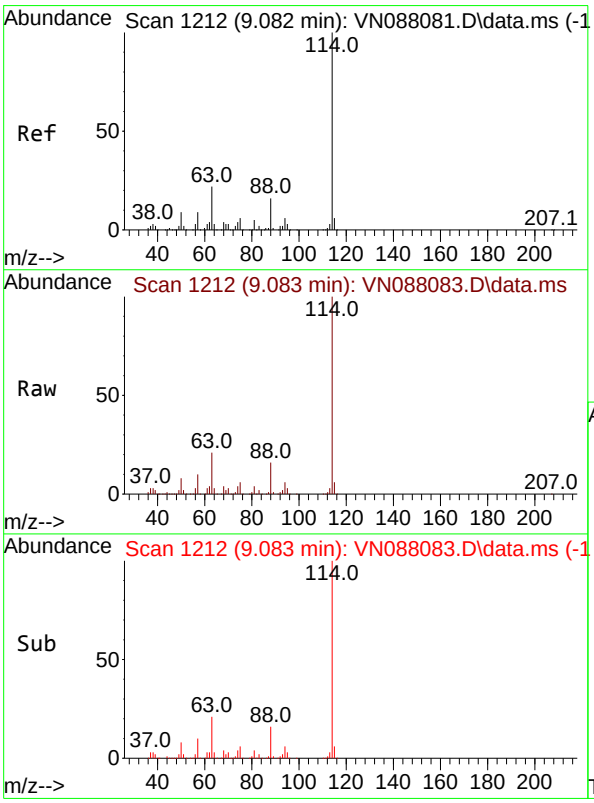
Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	100.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

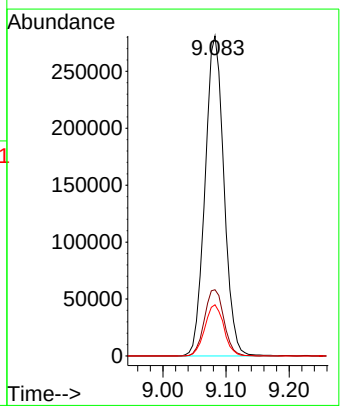
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

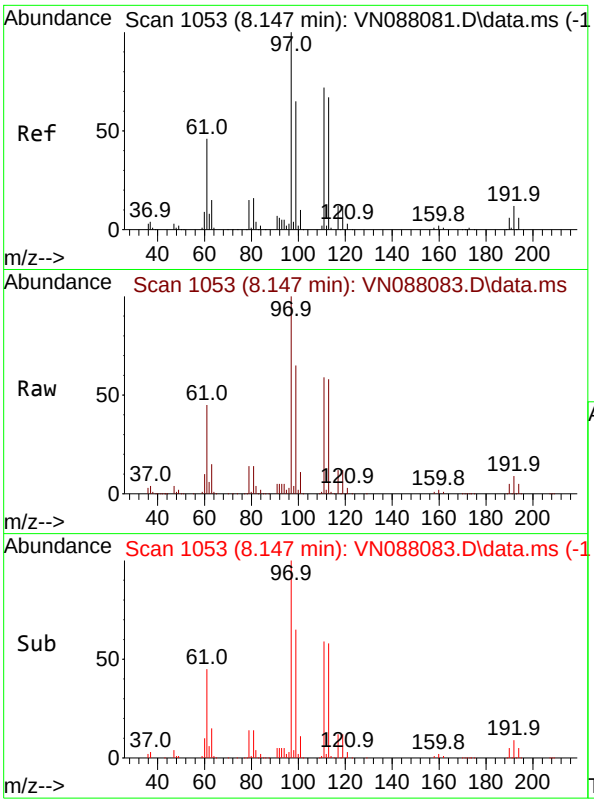


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:114 Resp: 583838

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	45.2
88	16.0	0.0	33.4

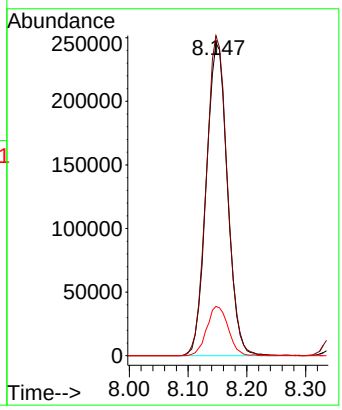




#35
Dibromofluoromethane
Concen: 156.263 ug/l
RT: 8.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:113 Resp: 61290

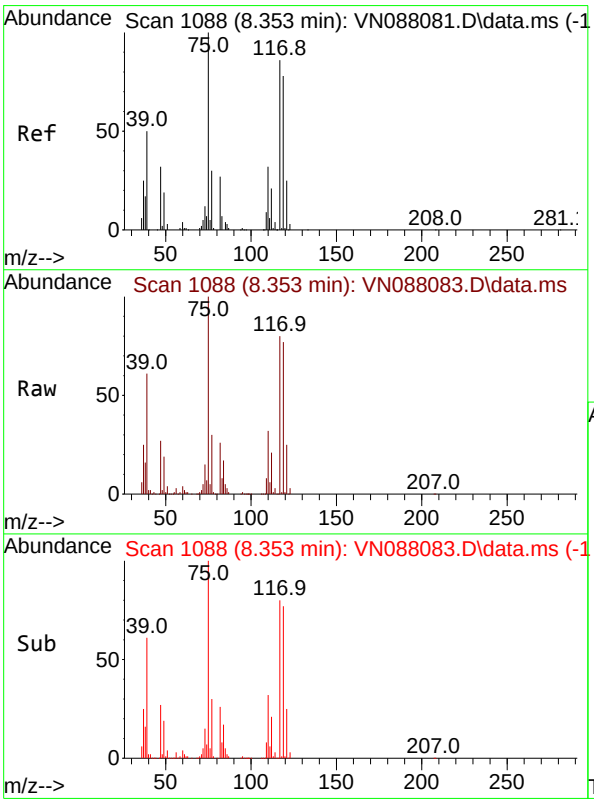
Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.8	124.2
192	16.0	12.8	19.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

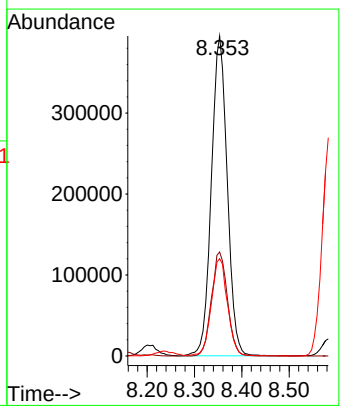
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

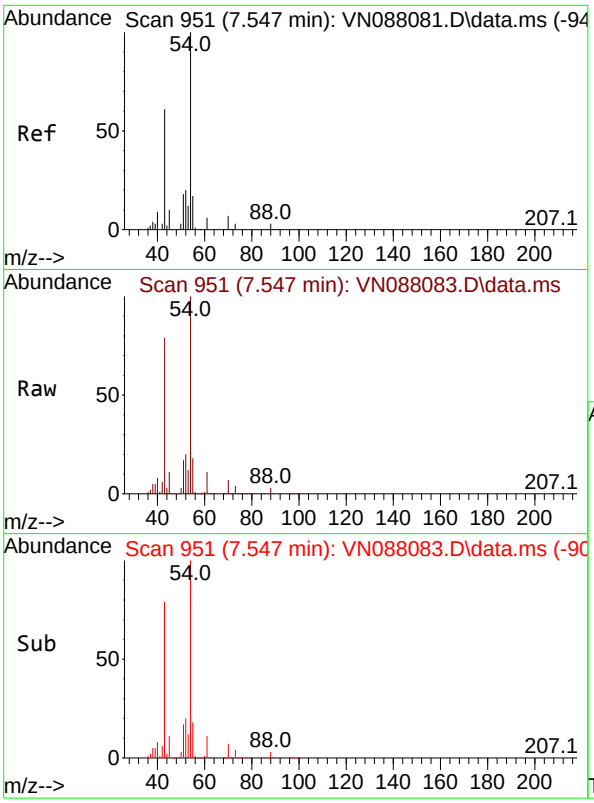


#36
1,1-Dichloropropene
Concen: 160.490 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 75 Resp: 919113

Ion	Ratio	Lower	Upper
75	100		
110	32.8	15.9	47.6
77	30.8	24.4	36.6





#37
Ethyl Acetate
Concen: 155.473 ug/l
RT: 7.547 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

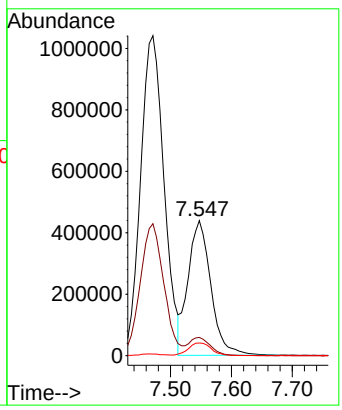
Tgt Ion: 43 Resp: 114419

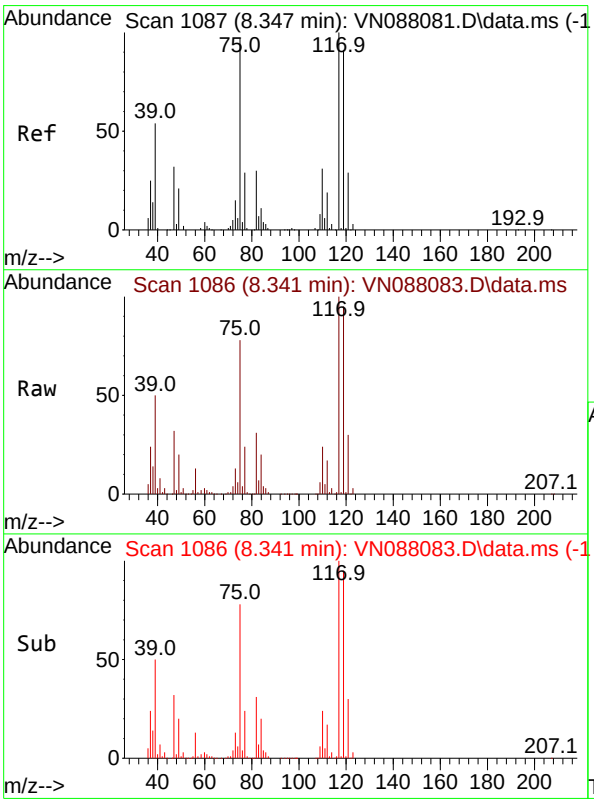
Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.3	13.9
70	9.5	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

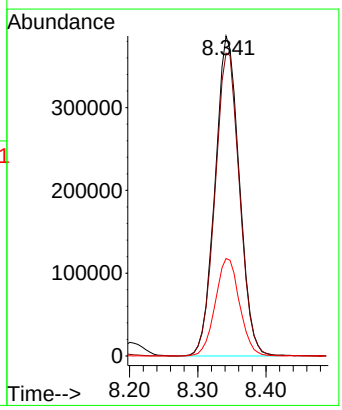


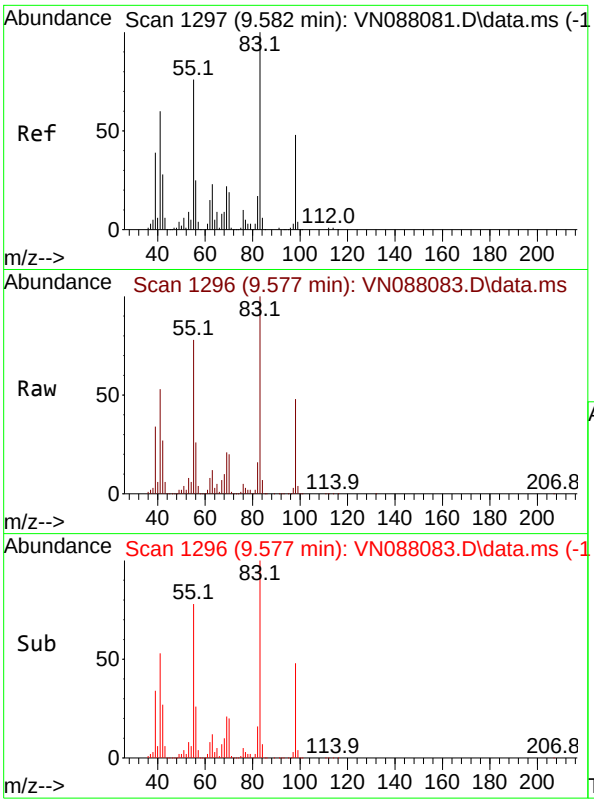


#38
Carbon Tetrachloride
Concen: 161.719 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:117 Resp: 956561

Ion	Ratio	Lower	Upper
117	100		
119	94.6	79.0	118.6
121	30.5	25.0	37.6





#39
Methylcyclohexane
Concen: 165.983 ug/l
RT: 9.577 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

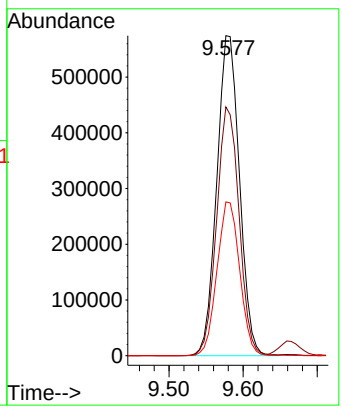
Tgt Ion: 83 Resp: 122184

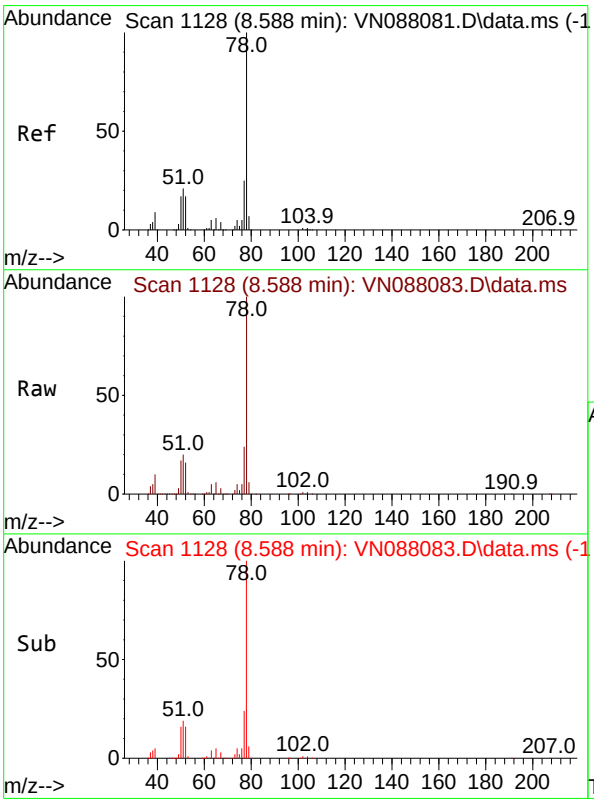
Ion	Ratio	Lower	Upper
83	100		
55	77.7	64.6	96.8
98	48.1	38.4	57.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

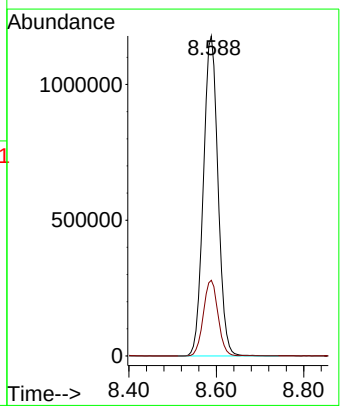


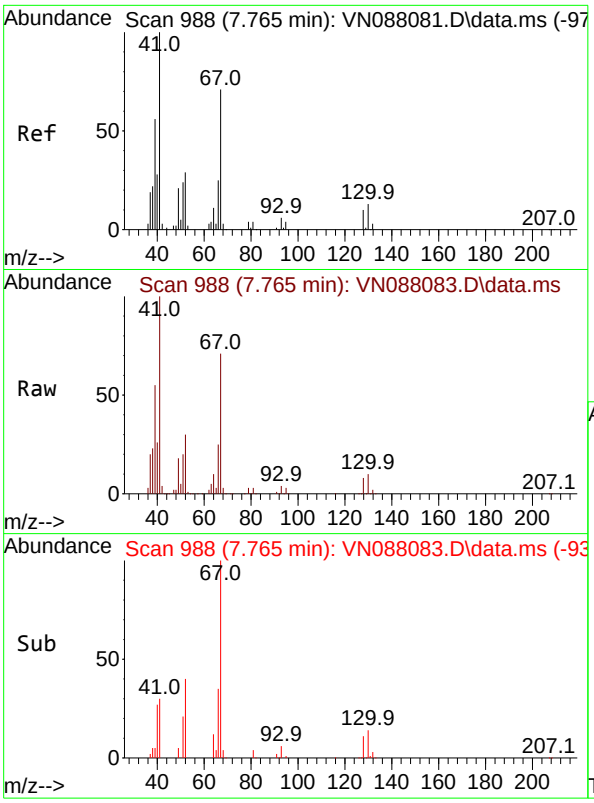


#40
Benzene
Concen: 157.221 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 78 Resp: 2742115

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.7	29.5

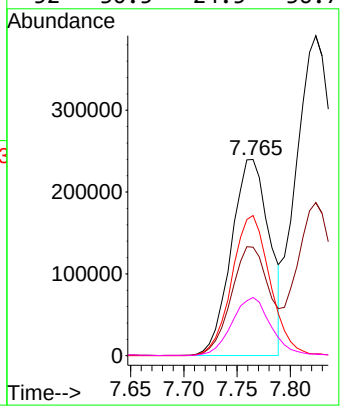




#41
Methacrylonitrile
Concen: 153.840 ug/l
RT: 7.765 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 41 Resp: 59839

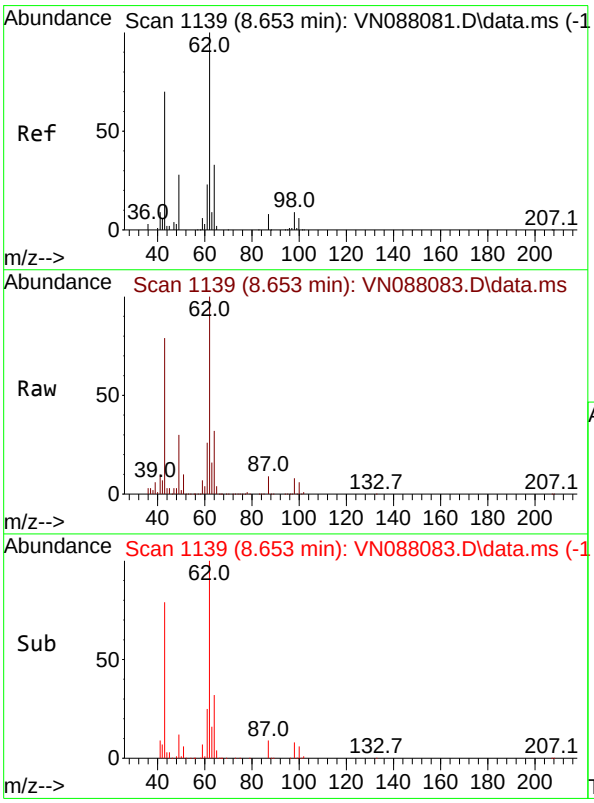
Ion	Ratio	Lower	Upper
41	100		
39	55.1	45.4	68.0
67	71.7	55.3	82.9
52	30.5	24.5	36.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

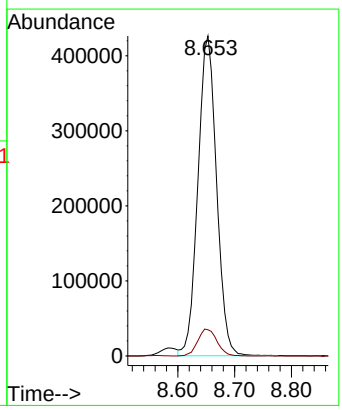
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

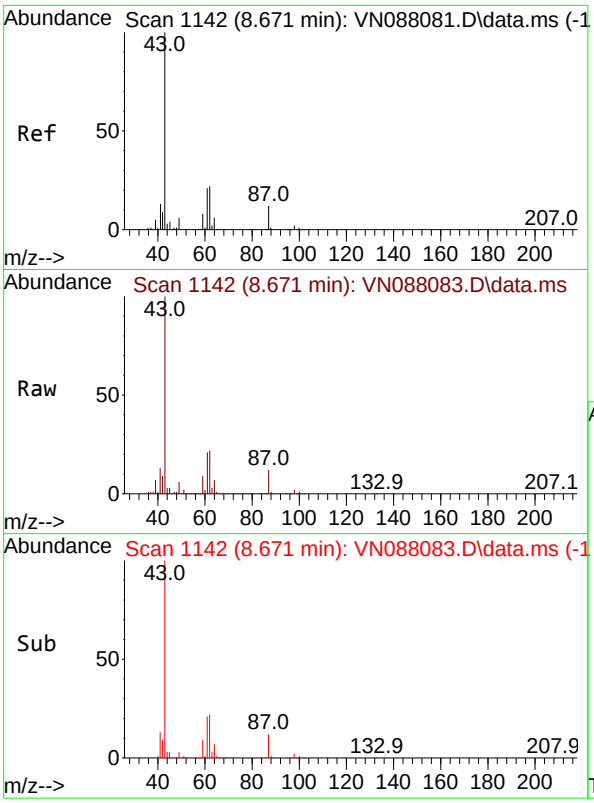


#42
1,2-Dichloroethane
Concen: 156.530 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 62 Resp: 970030

Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.4

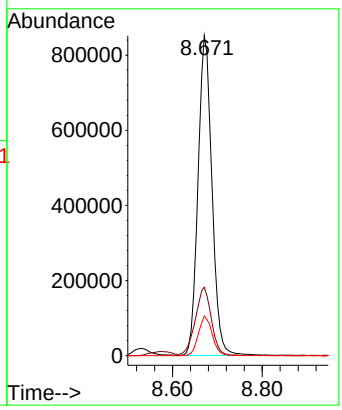




#43
Isopropyl Acetate
Concen: 161.449 ug/l
RT: 8.671 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 43 Resp: 183347

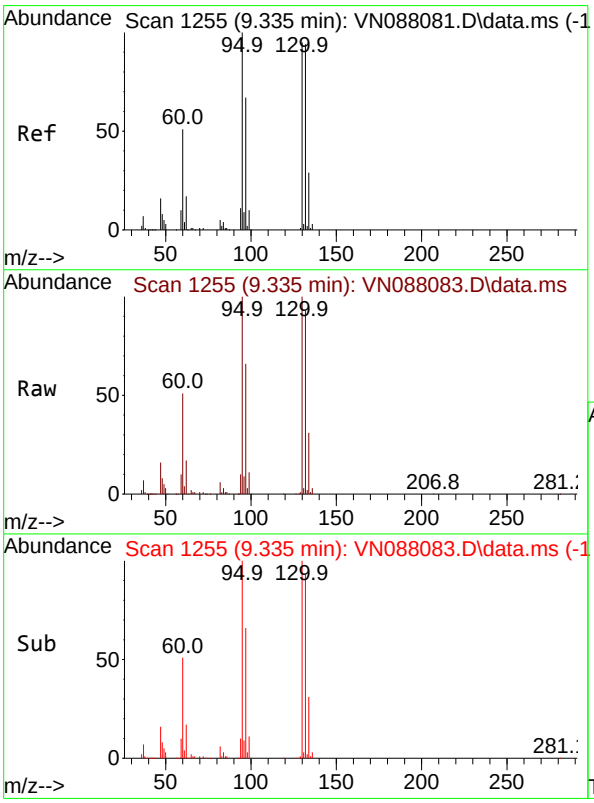
Ion	Ratio	Lower	Upper
43	100		
61	24.5	18.8	28.2
87	12.3	9.6	14.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

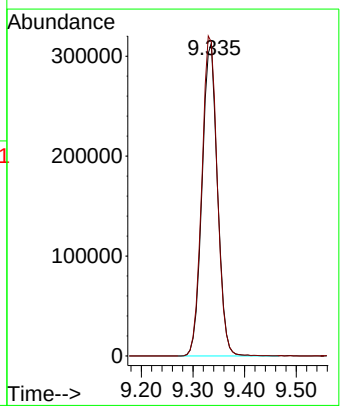
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

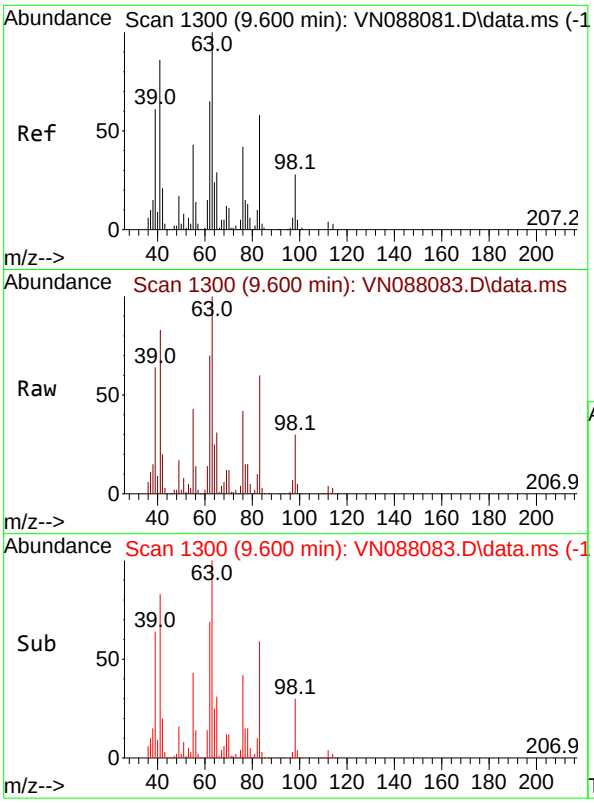


#44
Trichloroethene
Concen: 158.466 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. 0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:130 Resp: 646011

Ion	Ratio	Lower	Upper
130	100		
95	100.4	0.0	212.0

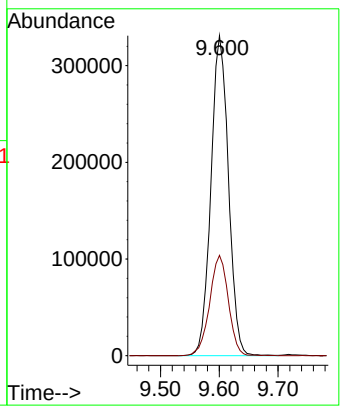




#45
1,2-Dichloropropane
Concen: 155.683 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 63 Resp: 68550

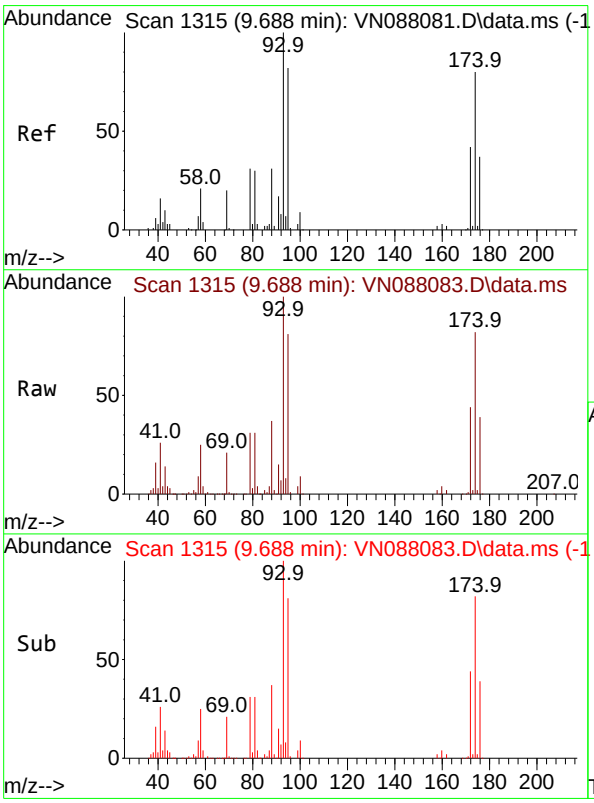
Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

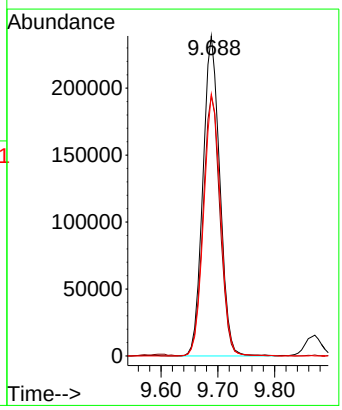
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

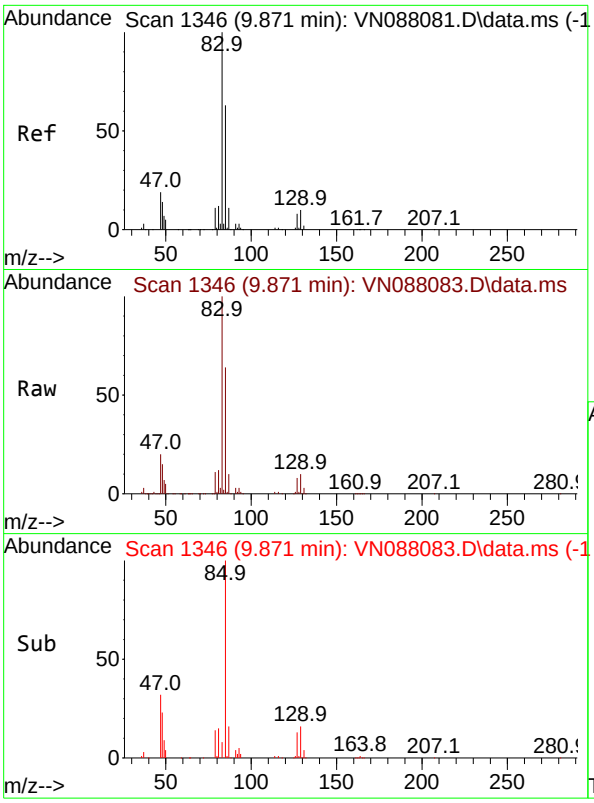


#46
Dibromomethane
Concen: 156.795 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 93 Resp: 492395

Ion	Ratio	Lower	Upper
93	100		
95	81.1	66.2	99.4
174	81.7	63.4	95.2

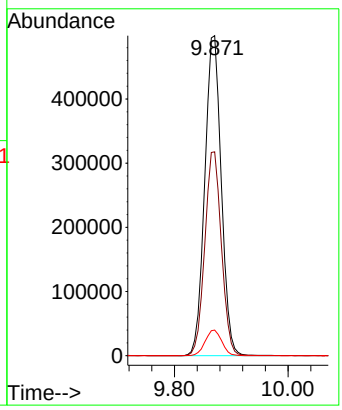




#47
Bromodichloromethane
Concen: 159.522 ug/l
RT: 9.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 83 Resp: 100297

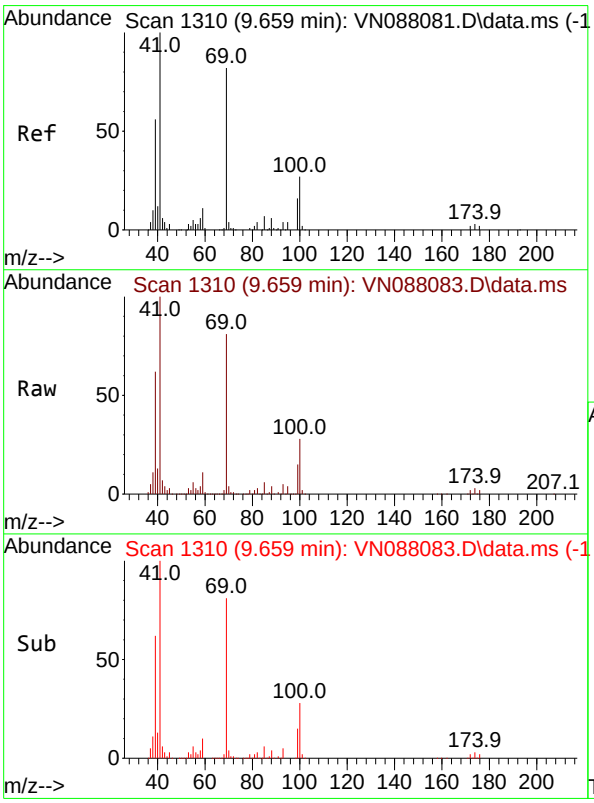
Ion	Ratio	Lower	Upper
83	100		
85	63.7	52.5	78.7
127	8.0	5.8	8.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

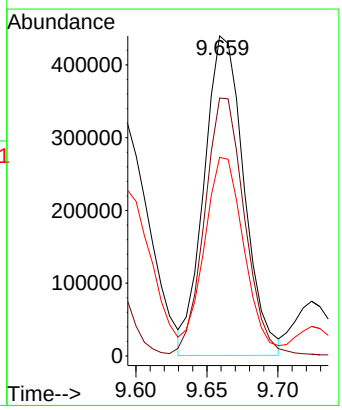
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

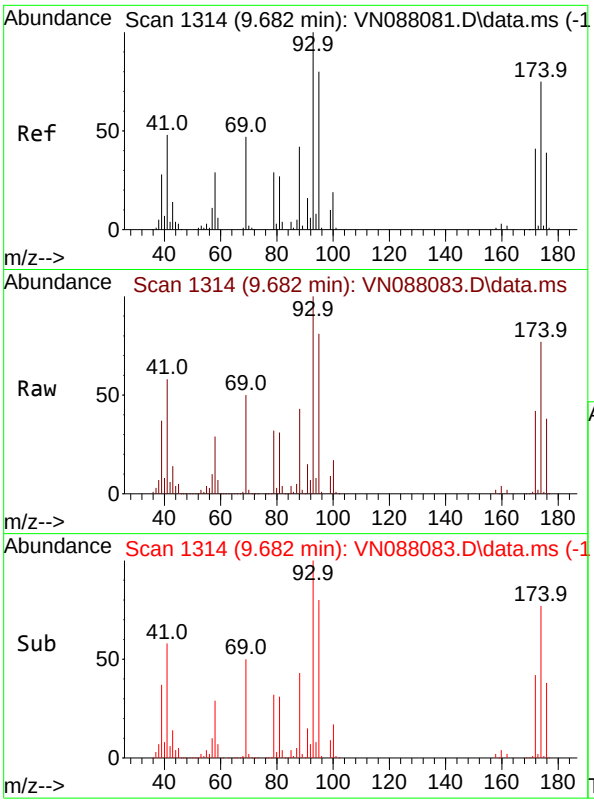


#48
Methyl methacrylate
Concen: 159.103 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 41 Resp: 858241

Ion	Ratio	Lower	Upper
41	100		
69	80.8	62.7	94.1
39	62.5	52.9	79.3

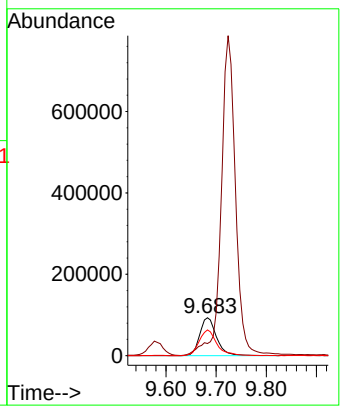




#49
1,4-Dioxane
Concen: 3326.006 ug/l
RT: 9.682 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 88 Resp: 21688

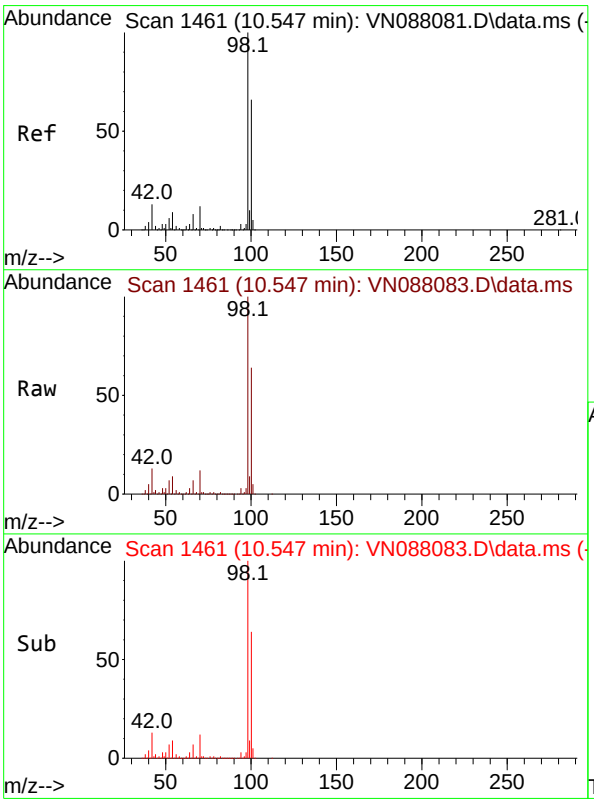
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	72.1	57.9	86.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

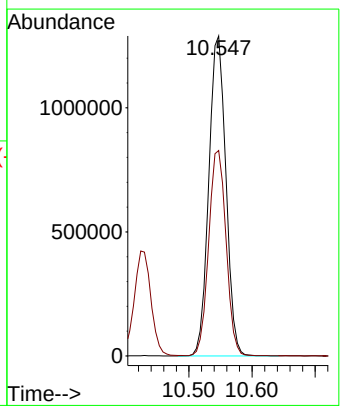
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

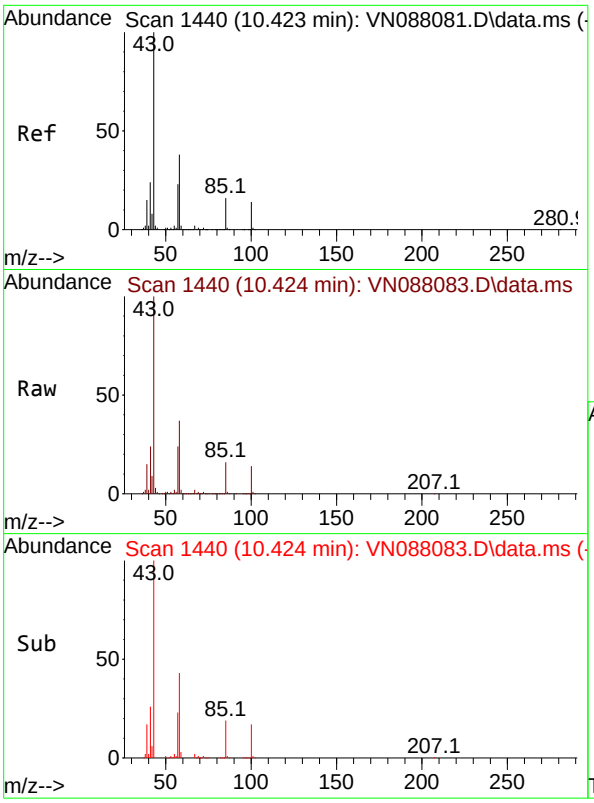


#50
Toluene-d8
Concen: 160.354 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 98 Resp: 2423445

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.8	79.2

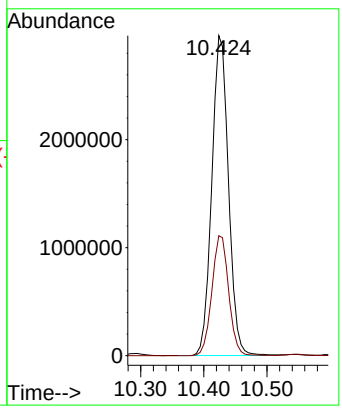




#51
4-Methyl-2-Pentanone
Concen: 808.811 ug/l
RT: 10.424 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 43 Resp: 543382

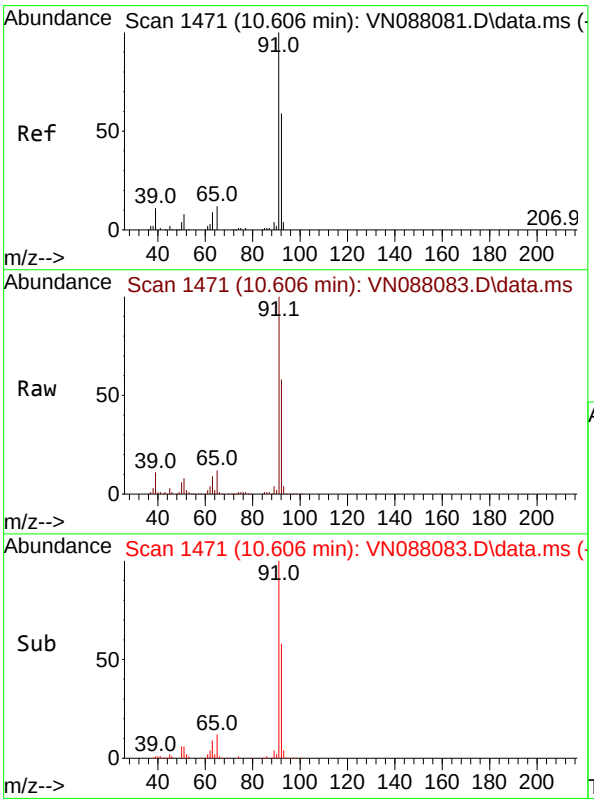
Ion	Ratio	Lower	Upper
43	100		
58	37.7	29.6	44.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

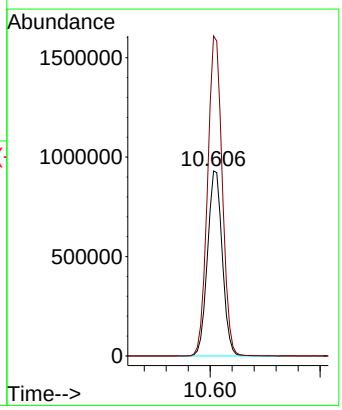
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

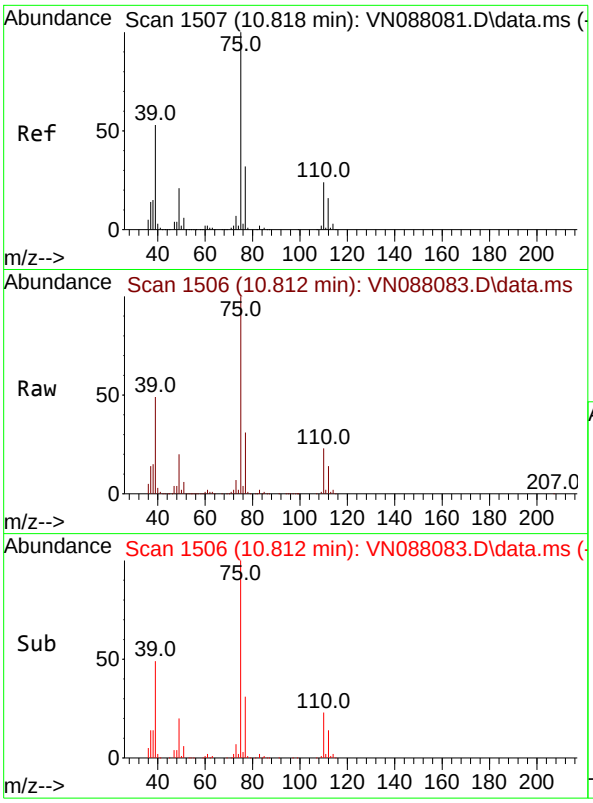


#52
Toluene
Concen: 161.024 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 92 Resp: 1731531

Ion	Ratio	Lower	Upper
92	100		
91	172.0	140.4	210.6

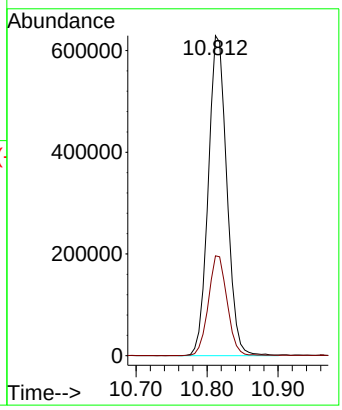




#53
t-1,3-Dichloropropene
Concen: 170.728 ug/l
RT: 10.812 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 75 Resp: 114247

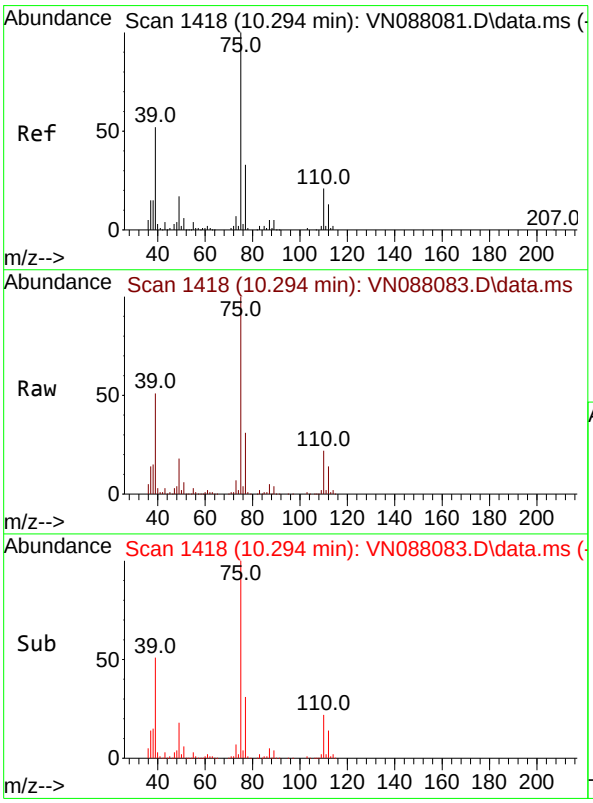
Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.2	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

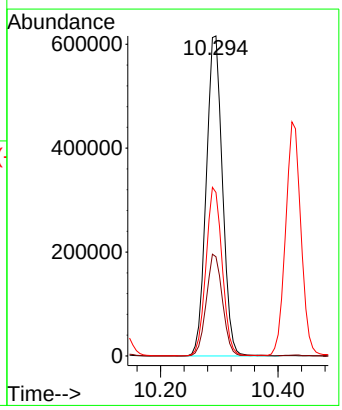
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

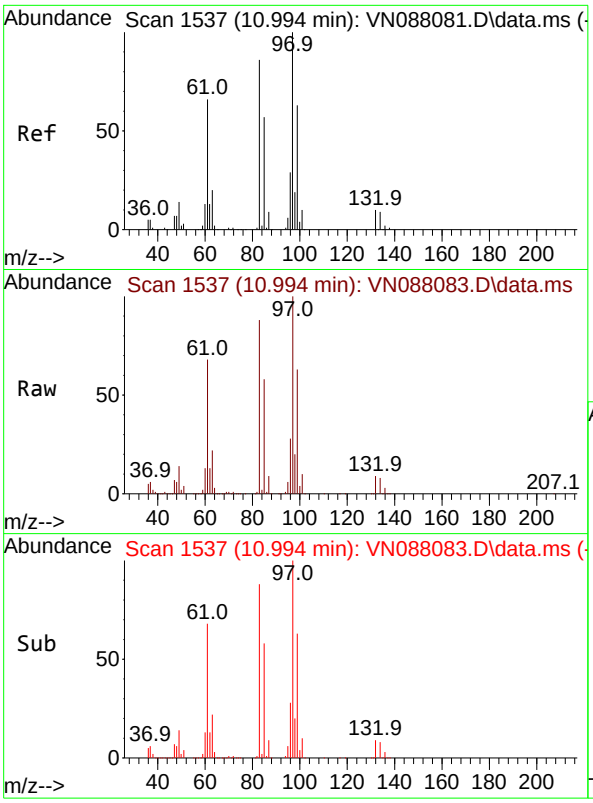


#54
cis-1,3-Dichloropropene
Concen: 165.622 ug/l
RT: 10.294 min Scan# 1418
Delta R.T. 0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 75 Resp: 1176069

Ion	Ratio	Lower	Upper
75	100		
77	31.0	24.6	37.0
39	51.0	45.2	67.8

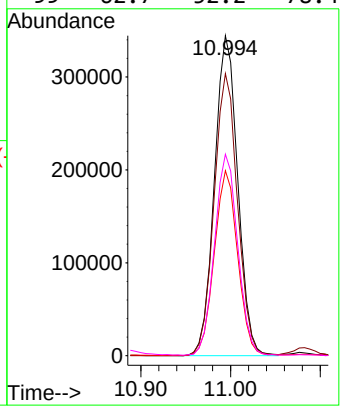




#55
1,1,2-Trichloroethane
Concen: 152.240 ug/l
RT: 10.994 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 97 Resp: 62108

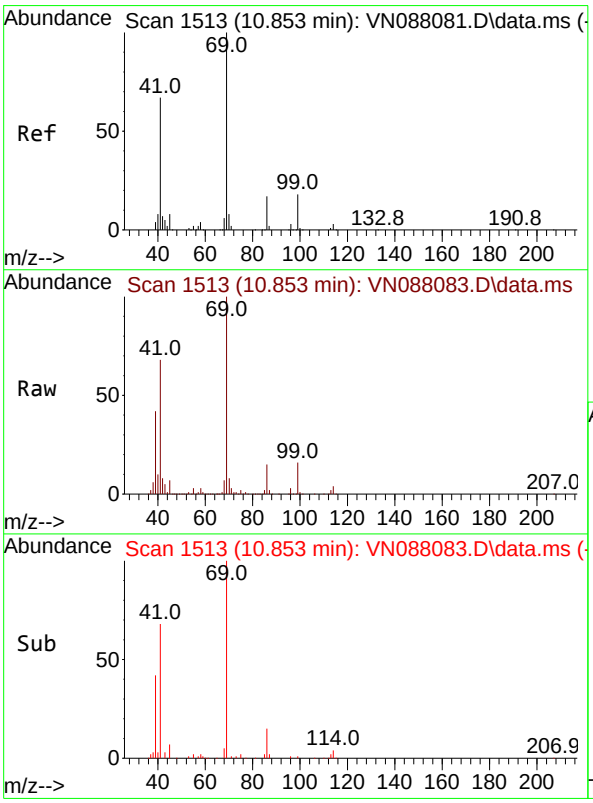
Ion	Ratio	Lower	Upper
97	100		
83	88.1	68.2	102.4
85	57.7	45.5	68.3
99	62.7	52.2	78.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

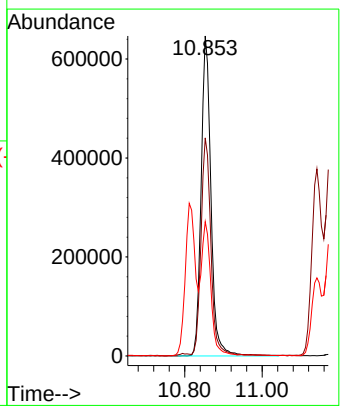
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

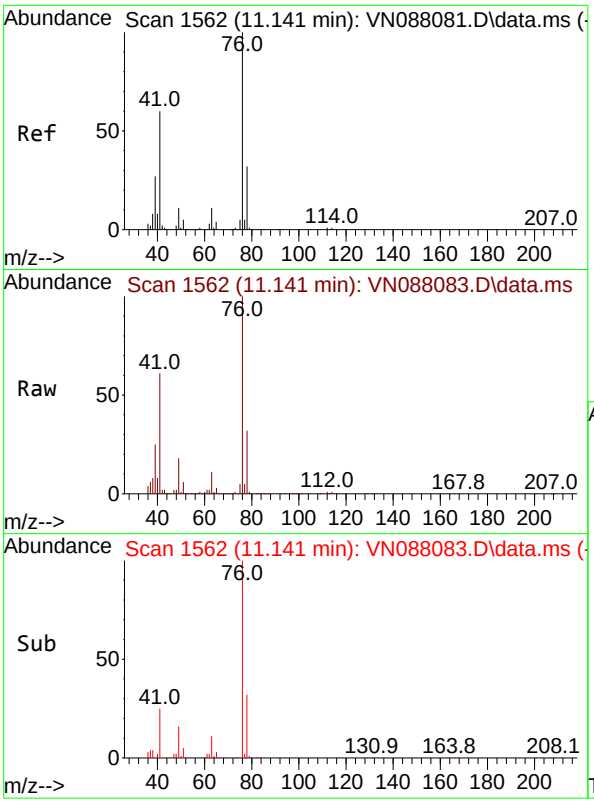


#56
Ethyl methacrylate
Concen: 176.733 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 69 Resp: 1139330

Ion	Ratio	Lower	Upper
69	100		
41	68.5	56.5	84.7
39	40.0	34.2	51.4

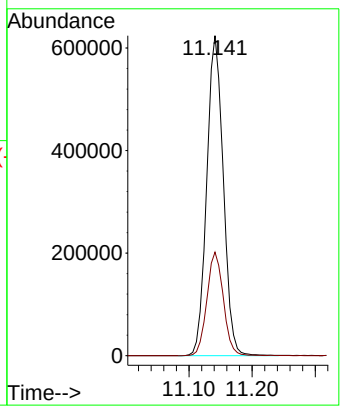




#57
1,3-Dichloropropane
Concen: 158.102 ug/l
RT: 11.141 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 76 Resp: 113371

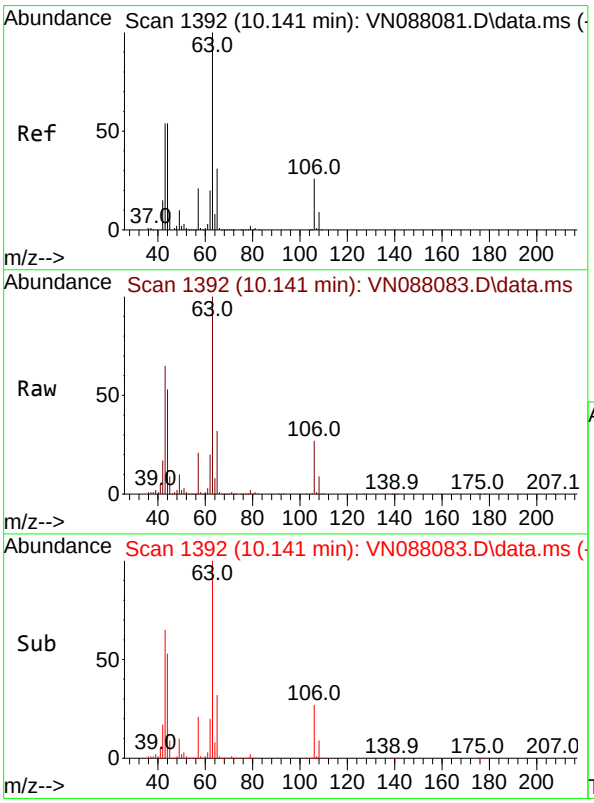
Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

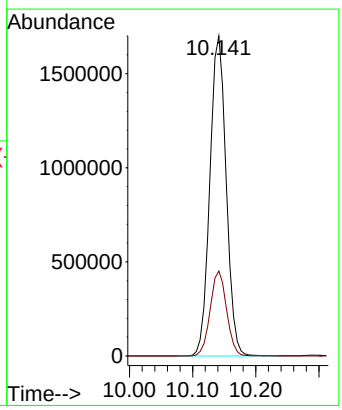
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

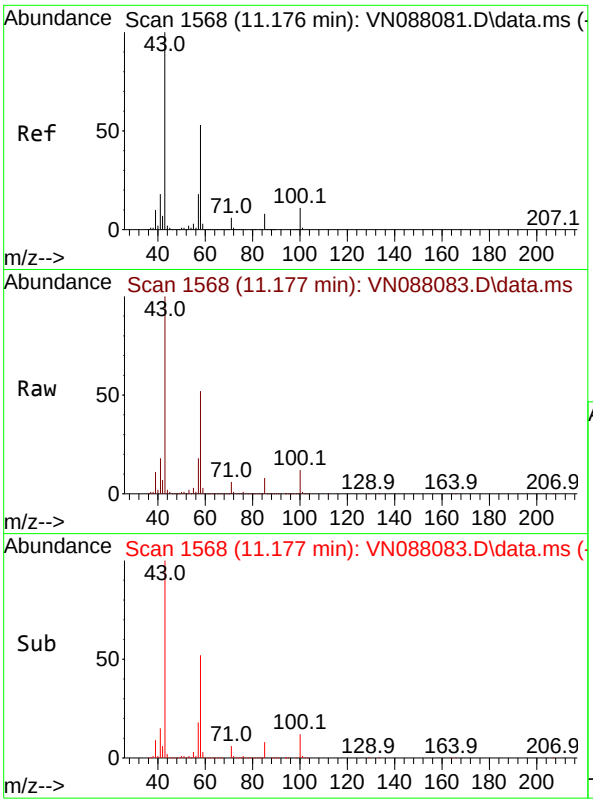


#58
2-Chloroethyl Vinyl ether
Concen: 907.564 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 63 Resp: 3047762

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.1	31.7

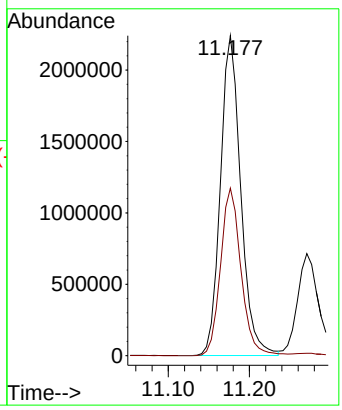




#59
2-Hexanone
Concen: 886.644 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 43 Resp: 391043

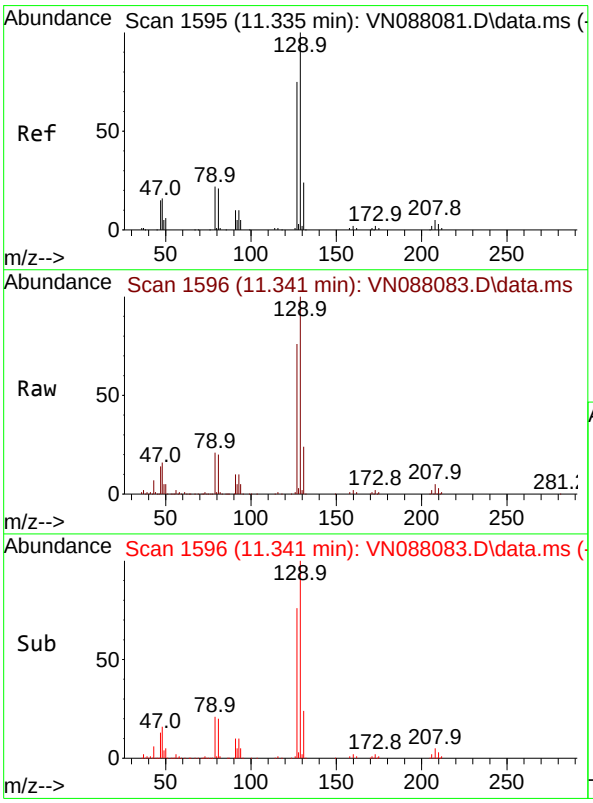
Ion	Ratio	Lower	Upper
43	100		
58	52.7	25.9	77.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

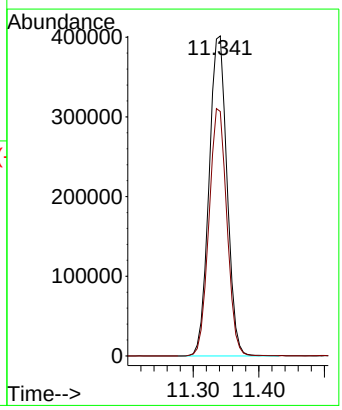
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

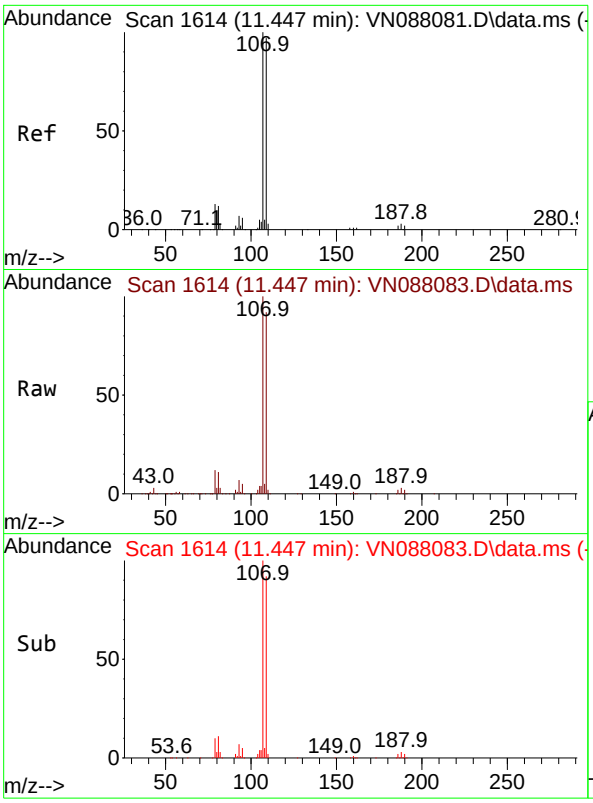


#60
Dibromochloromethane
Concen: 164.568 ug/l
RT: 11.341 min Scan# 1596
Delta R.T. 0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:129 Resp: 763098

Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.1	117.3

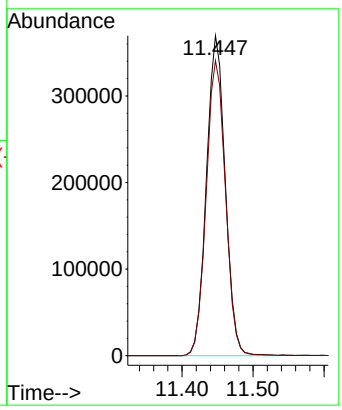




#61
1,2-Dibromoethane
Concen: 161.779 ug/l
RT: 11.447 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:107 Resp: 67925

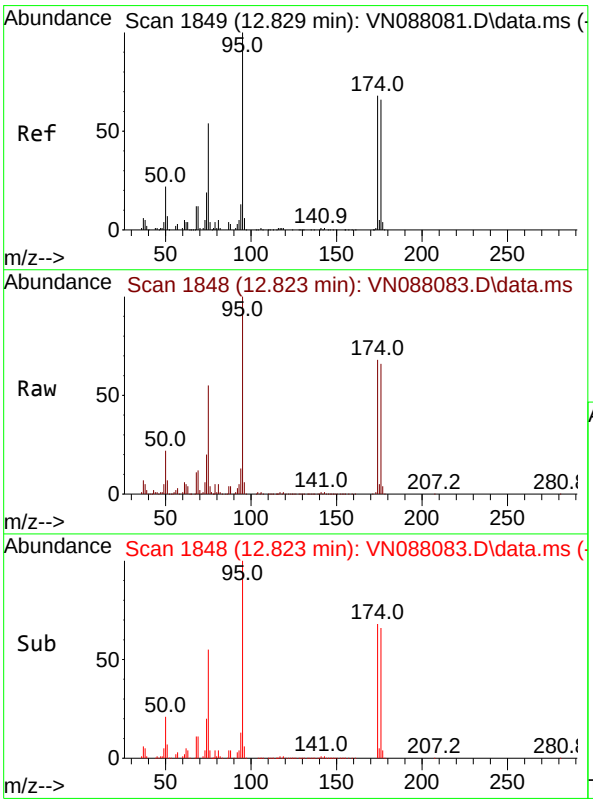
Ion	Ratio	Lower	Upper
107	100		
109	94.6	74.7	112.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

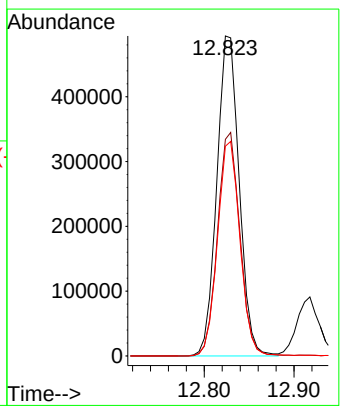
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

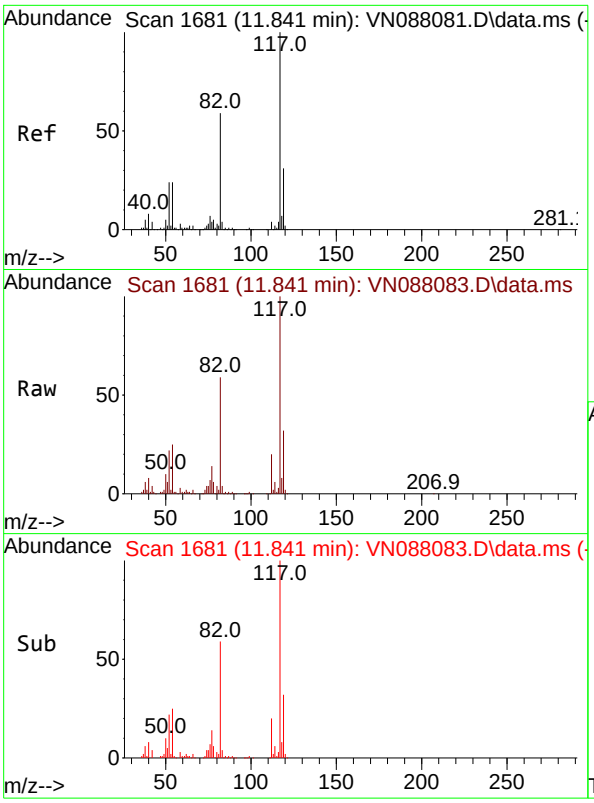


#62
4-Bromofluorobenzene
Concen: 160.301 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 95 Resp: 855591

Ion	Ratio	Lower	Upper
95	100		
174	69.8	0.0	138.4
176	67.2	0.0	132.6

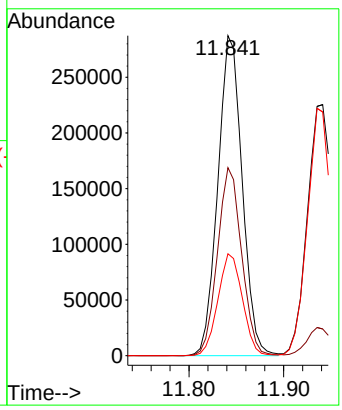




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:117 Resp: 51356

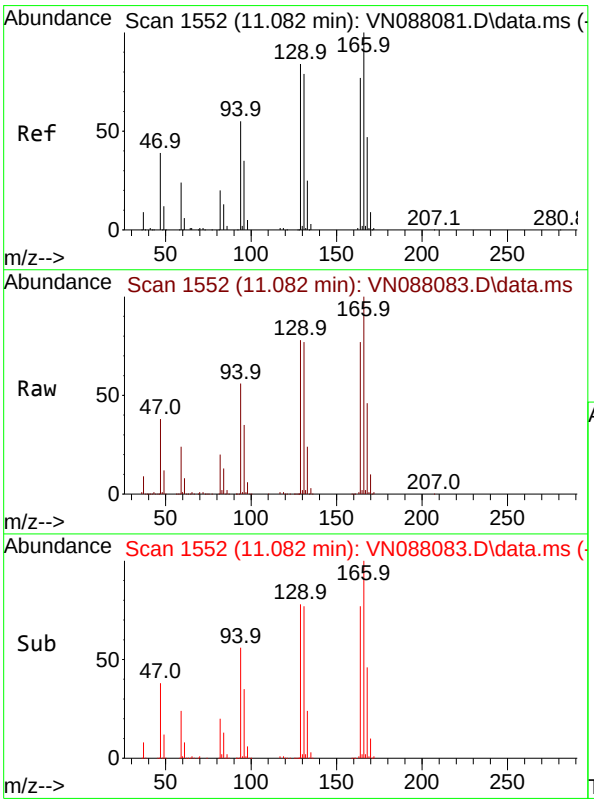
Ion	Ratio	Lower	Upper
117	100		
82	58.7	47.4	71.2
119	31.9	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

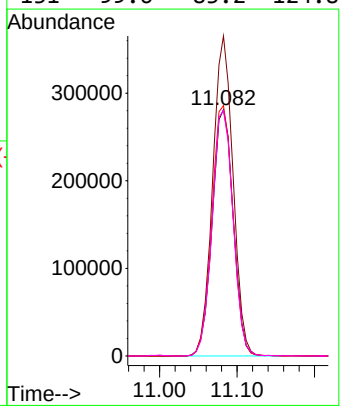
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

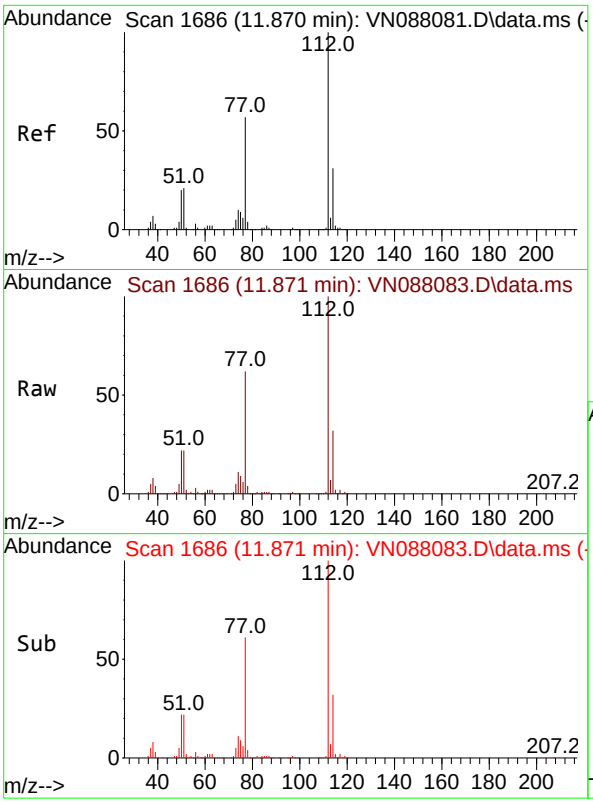


#64
Tetrachloroethene
Concen: 156.503 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:164 Resp: 530165

Ion	Ratio	Lower	Upper
164	100		
166	129.9	97.7	146.5
129	101.7	85.9	128.9
131	99.6	83.2	124.8

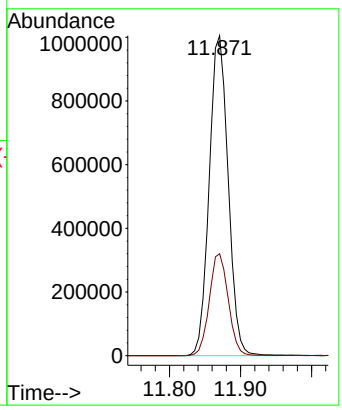




#65
Chlorobenzene
Concen: 159.579 ug/l
RT: 11.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:112 Resp: 186092

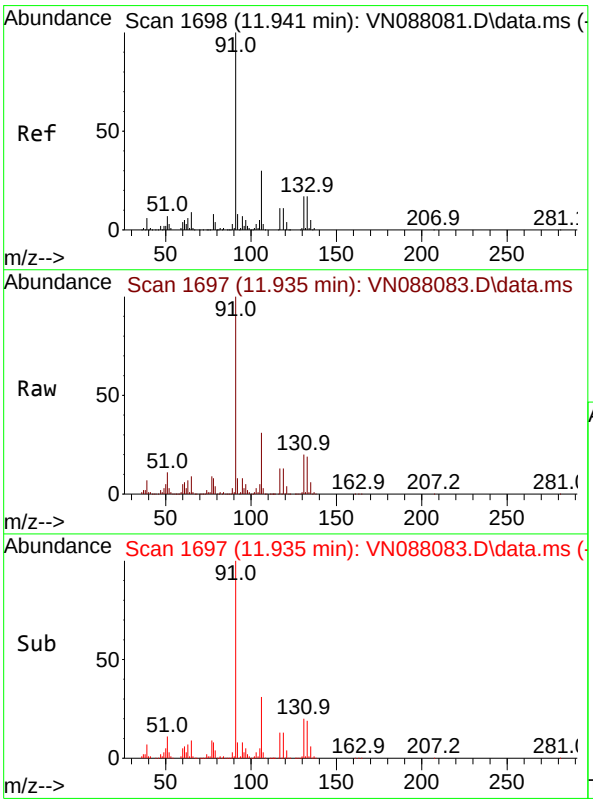
Ion	Ratio	Lower	Upper
112	100		
114	31.9	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

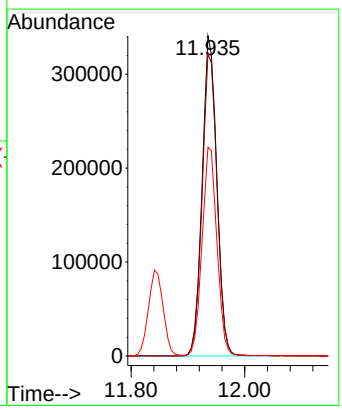
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

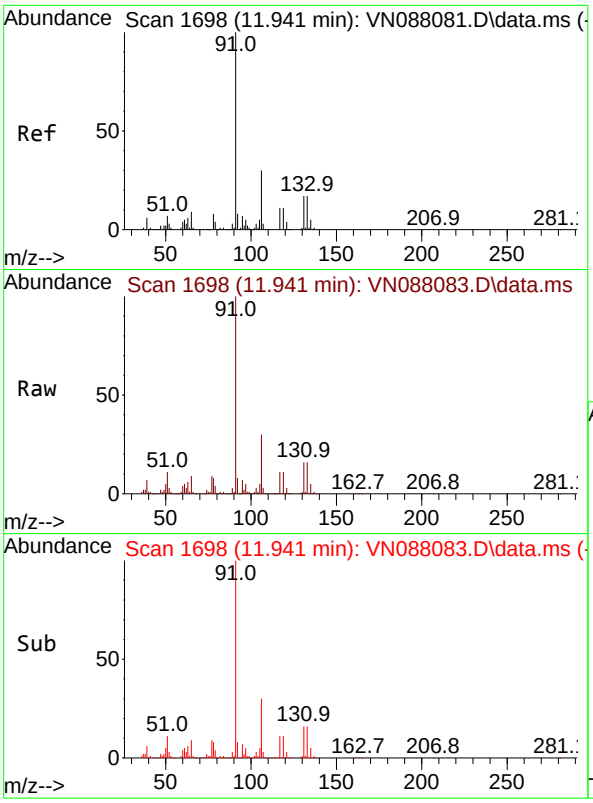


#66
1,1,1,2-Tetrachloroethane
Concen: 160.145 ug/l
RT: 11.935 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:131 Resp: 611842

Ion	Ratio	Lower	Upper
131	100		
133	95.4	48.0	144.0
119	65.6	32.6	97.7

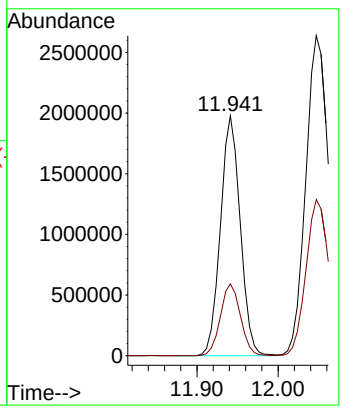




#67
Ethyl Benzene
Concen: 163.821 ug/l
RT: 11.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 91 Resp: 335334

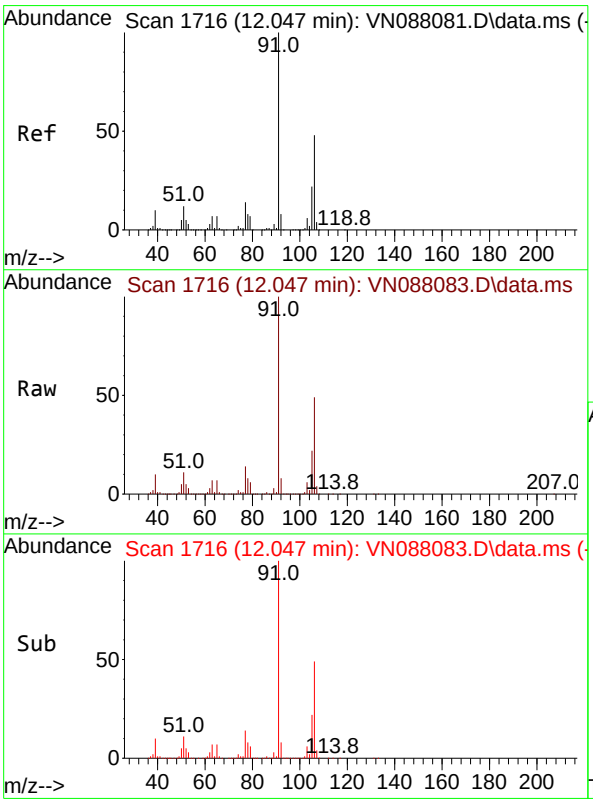
Ion	Ratio	Lower	Upper
91	100		
106	30.0	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

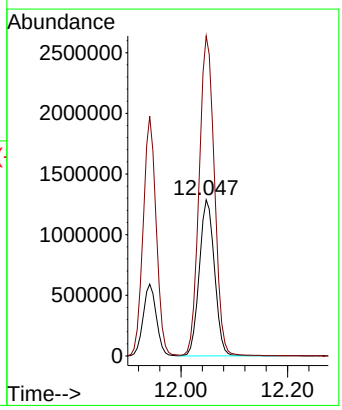
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

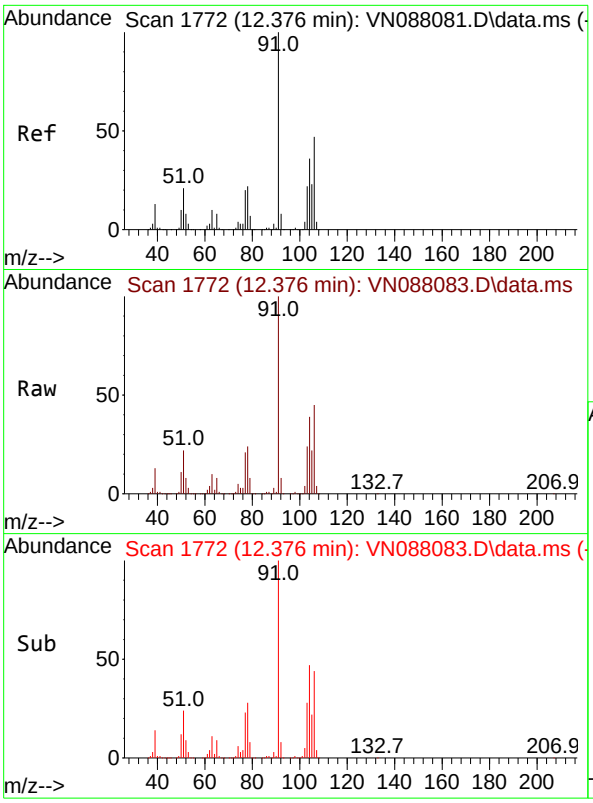


#68
m/p-Xylenes
Concen: 332.341 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:106 Resp: 2548912

Ion	Ratio	Lower	Upper
106	100		
91	205.5	169.3	253.9

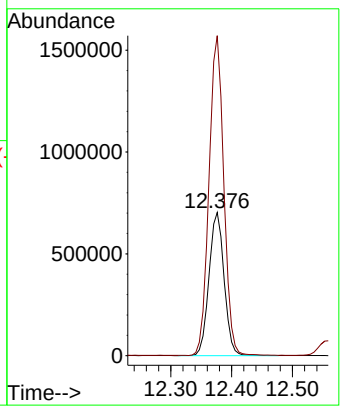




#69
o-Xylene
Concen: 166.137 ug/l
RT: 12.376 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:106 Resp: 120789

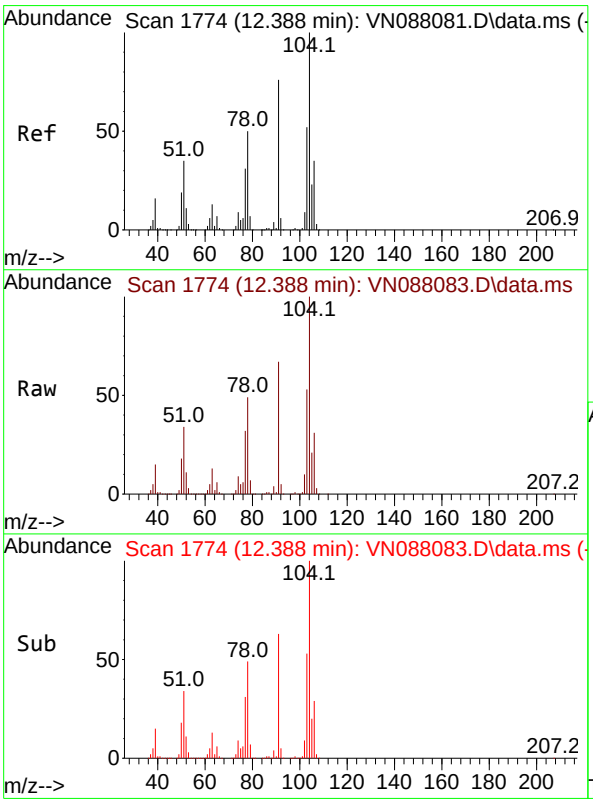
Ion	Ratio	Lower	Upper
106	100		
91	219.2	111.4	334.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

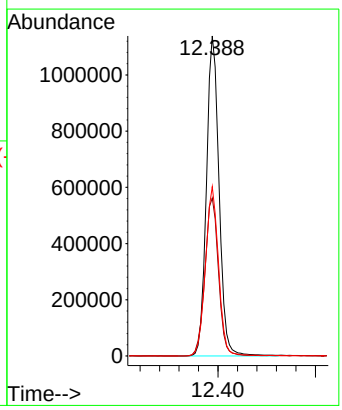
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

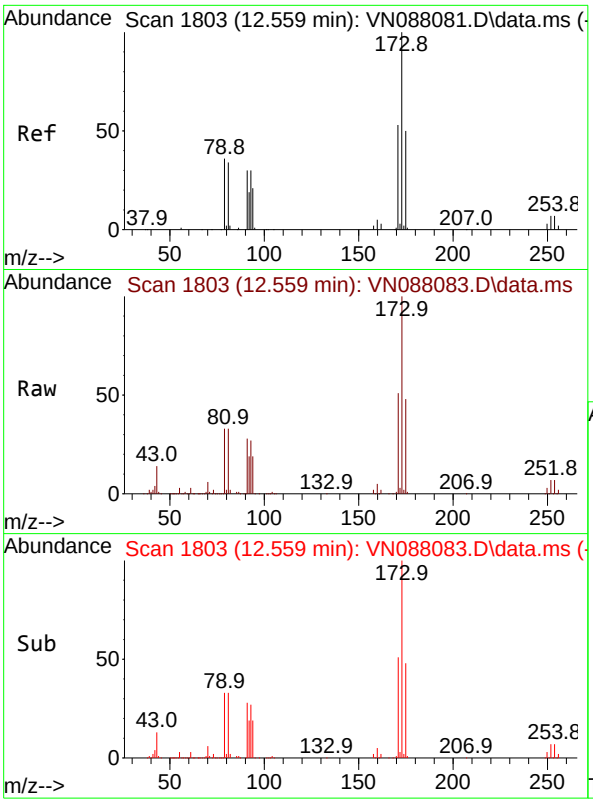


#70
Styrene
Concen: 172.216 ug/l
RT: 12.388 min Scan# 1774
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:104 Resp: 2041763

Ion	Ratio	Lower	Upper
104	100		
78	52.9	42.2	63.2
103	54.8	43.4	65.2

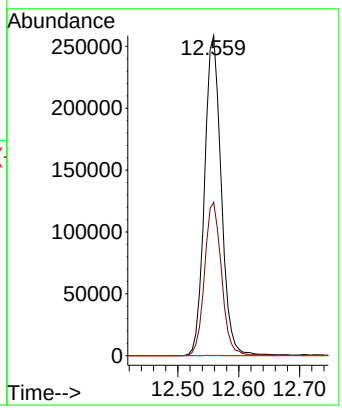




#71
Bromoform
Concen: 173.079 ug/l
RT: 12.559 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:173 Resp: 49347

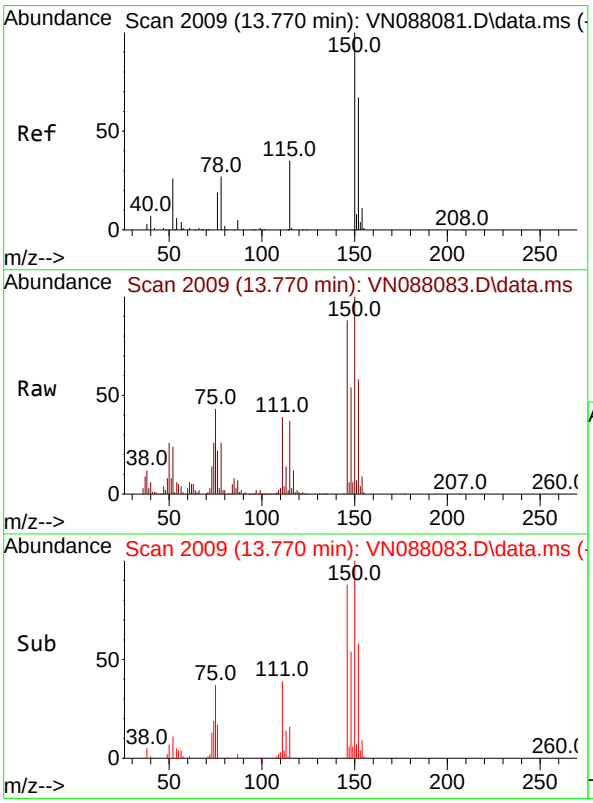
Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

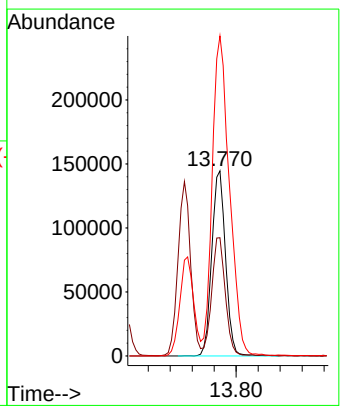
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

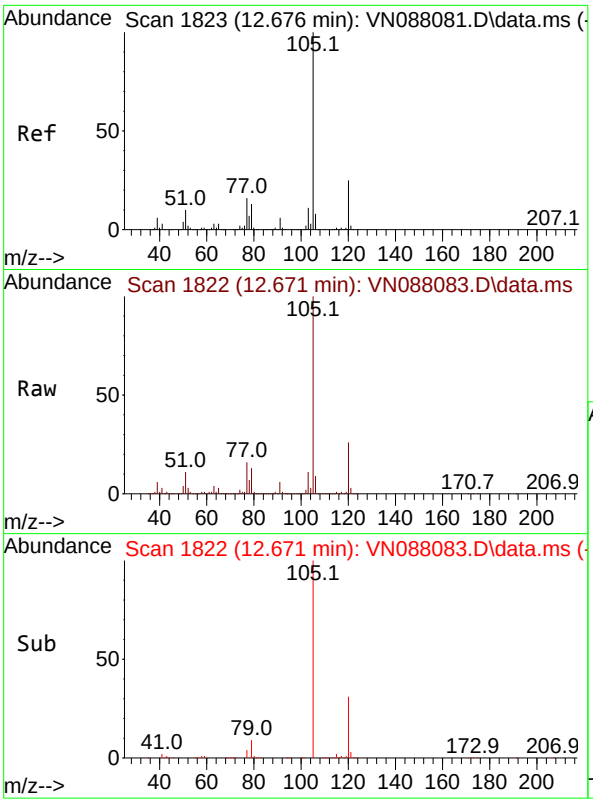


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:152 Resp: 251277

Ion	Ratio	Lower	Upper
152	100		
115	62.9	32.3	96.8
150	215.2	0.0	351.0

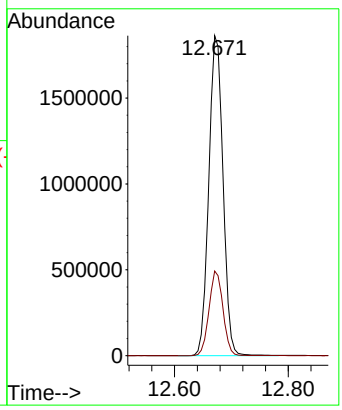




#73
Isopropylbenzene
Concen: 166.175 ug/l
RT: 12.671 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:105 Resp: 322052

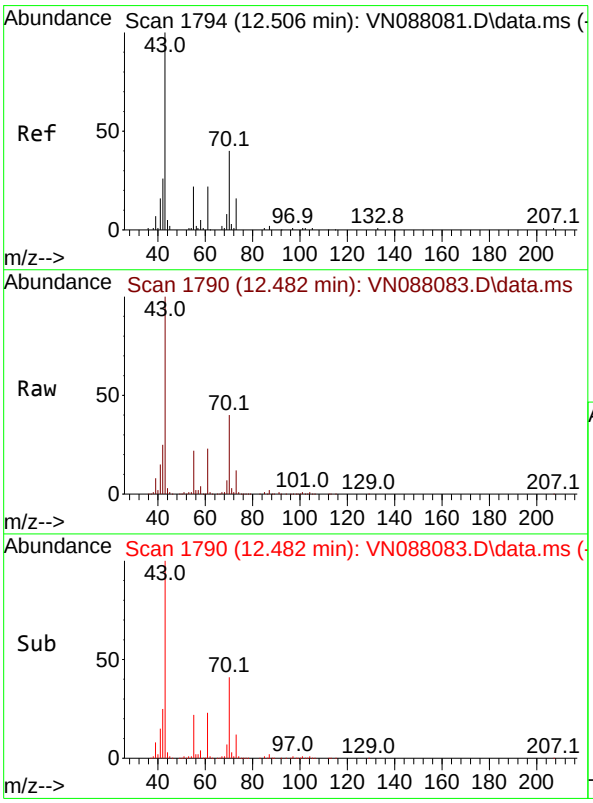
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

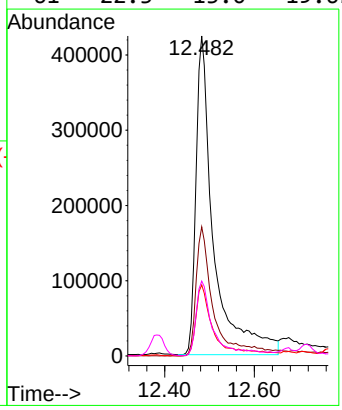
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

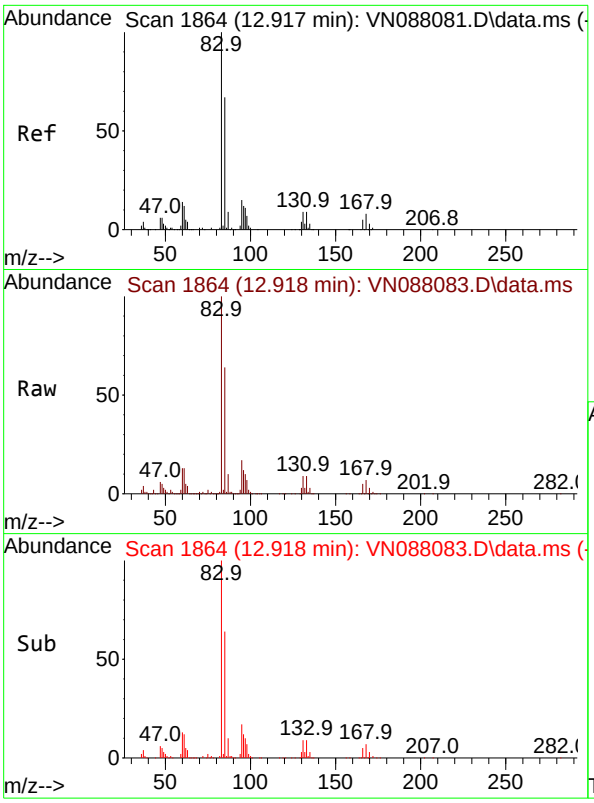


#74
N-amyl acetate
Concen: 151.264 ug/l
RT: 12.482 min Scan# 1790
Delta R.T. -0.018 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 43 Resp: 1157298

Ion	Ratio	Lower	Upper
43	100		
70	41.3	27.6	41.4
55	22.5	13.0	19.6#
61	22.3	13.0	19.6#

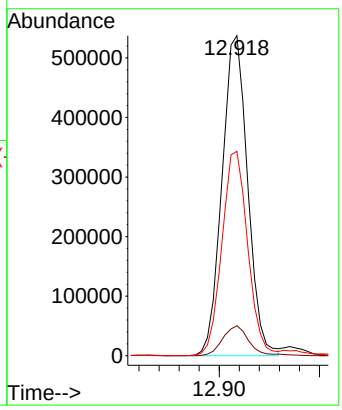




#75
1,1,2,2-Tetrachloroethane
Concen: 158.633 ug/l
RT: 12.918 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 83 Resp: 95714

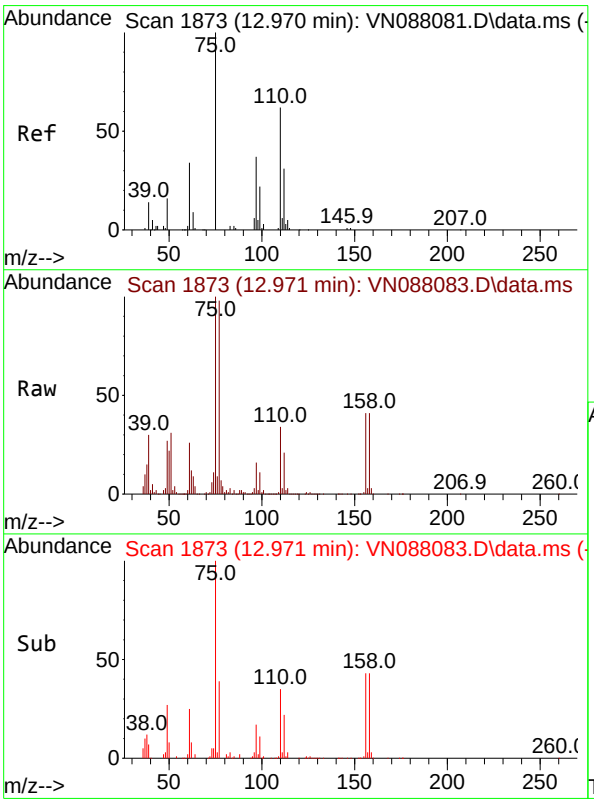
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	64.2	32.1	96.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

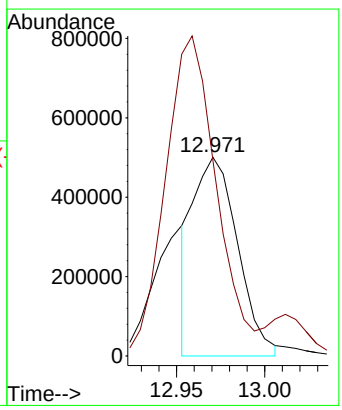
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

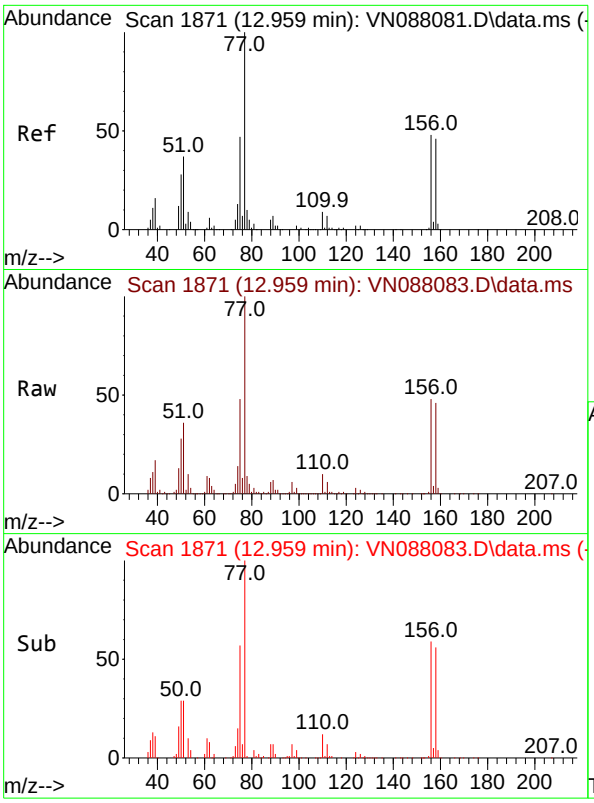


#76
1,2,3-Trichloropropane
Concen: 163.762 ug/l m
RT: 12.971 min Scan# 1873
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 75 Resp: 880864

Ion	Ratio	Lower	Upper
75	100		
77	183.7	89.1	267.4

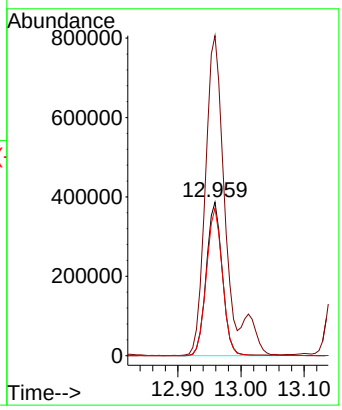




#77
Bromobenzene
Concen: 162.773 ug/l
RT: 12.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:156 Resp: 68025

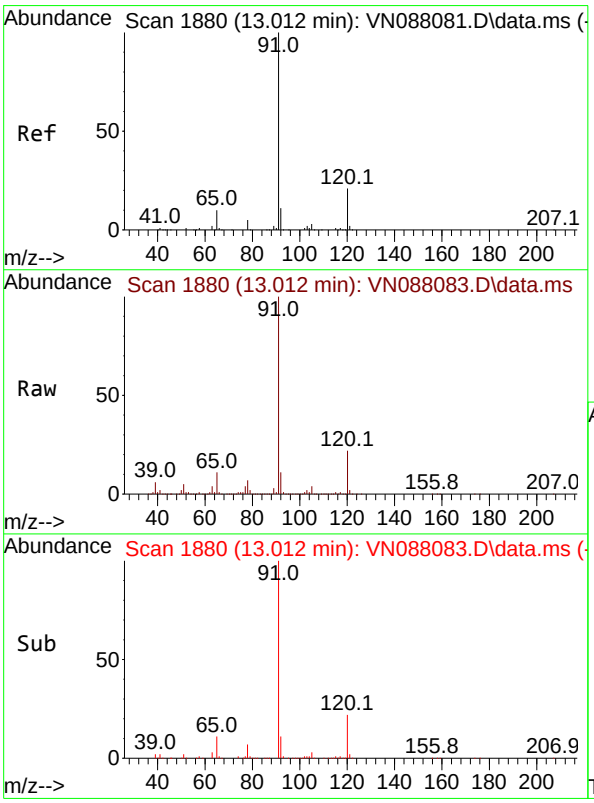
Ion	Ratio	Lower	Upper
156	100		
77	237.9	119.3	358.0
158	96.5	48.2	144.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

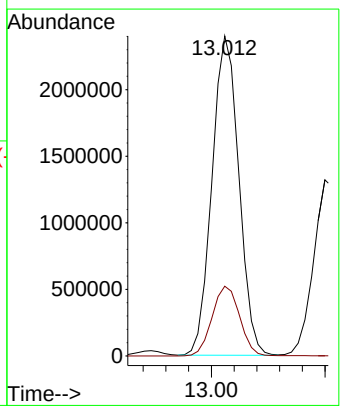
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

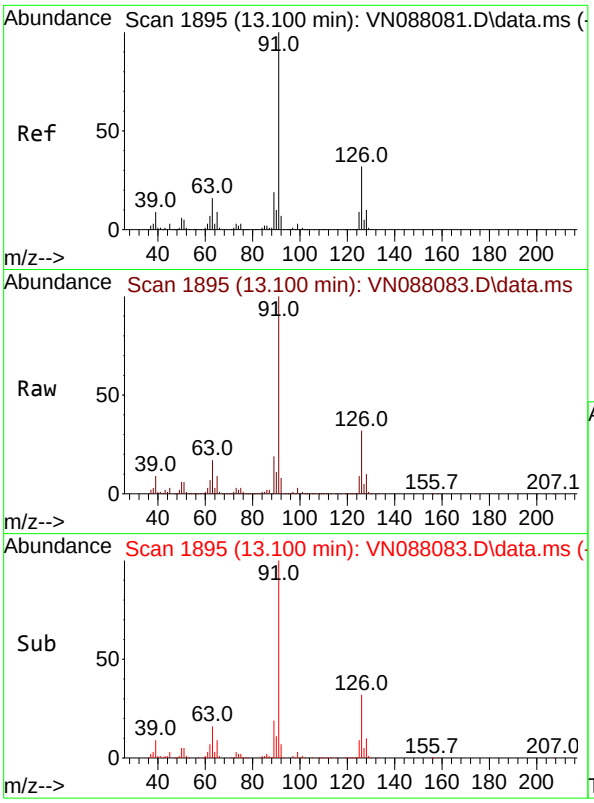


#78
n-propylbenzene
Concen: 166.291 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 91 Resp: 3932907

Ion	Ratio	Lower	Upper
91	100		
120	22.5	10.7	32.1

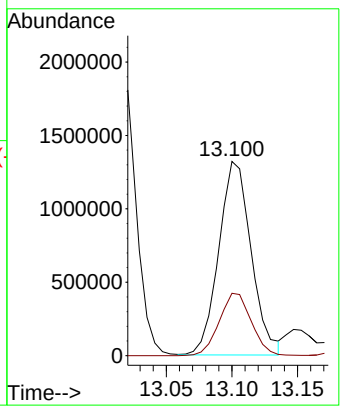




#79
2-Chlorotoluene
Concen: 168.438 ug/l
RT: 13.100 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 91 Resp: 227182

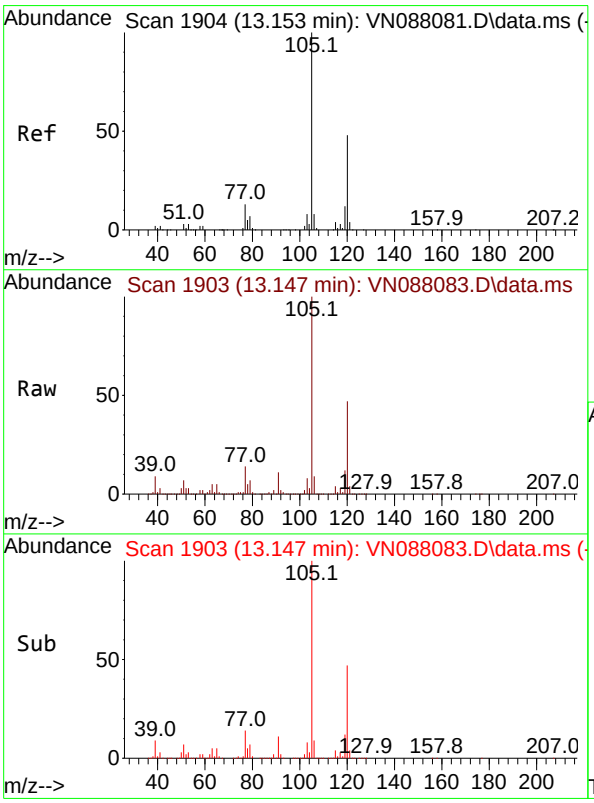
Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.1	48.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

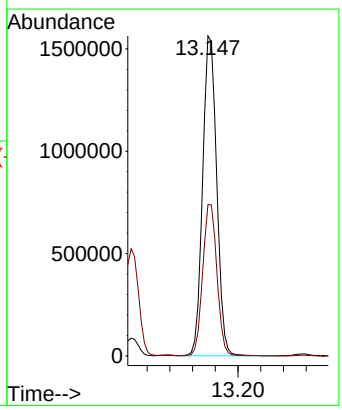
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

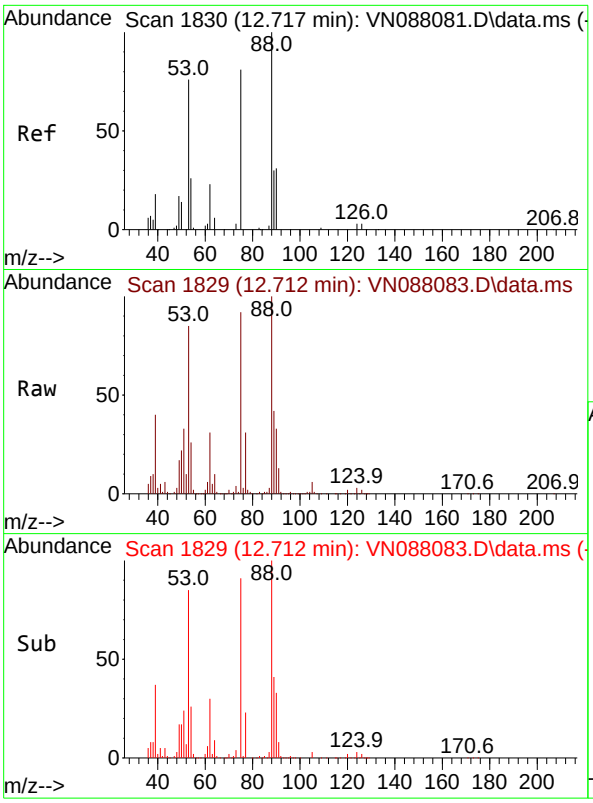


#80
1,3,5-Trimethylbenzene
Concen: 166.308 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:105 Resp: 2676801

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.2	69.6

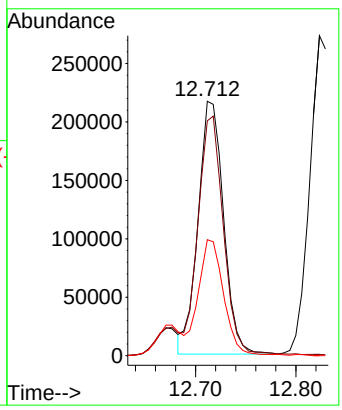




#81
trans-1,4-Dichloro-2-butene
Concen: 185.532 ug/l
RT: 12.712 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 75 Resp: 38307

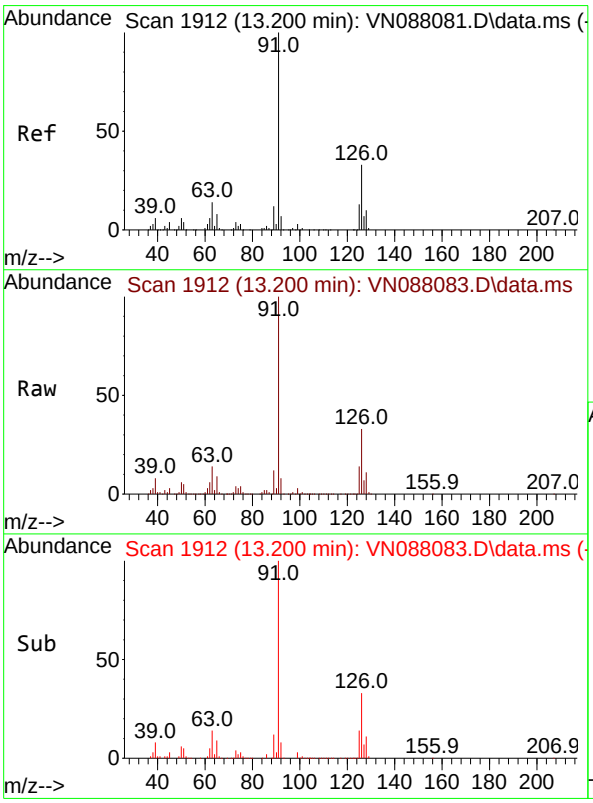
Ion	Ratio	Lower	Upper
75	100		
53	94.6	101.8	152.6
89	45.4	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

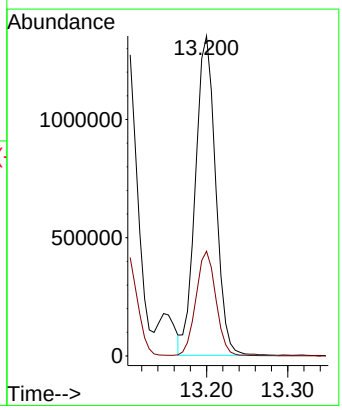
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

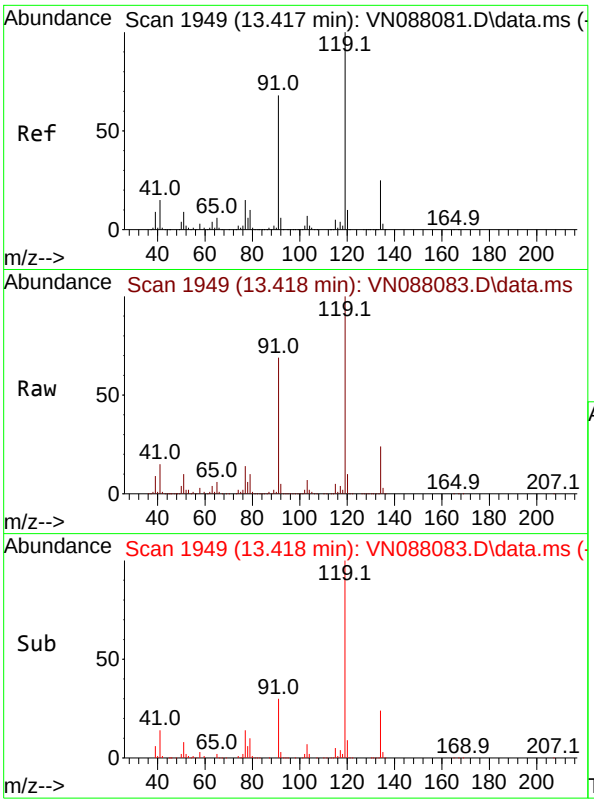


#82
4-Chlorotoluene
Concen: 160.269 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 91 Resp: 2338686

Ion	Ratio	Lower	Upper
91	100		
126	32.5	15.6	46.8

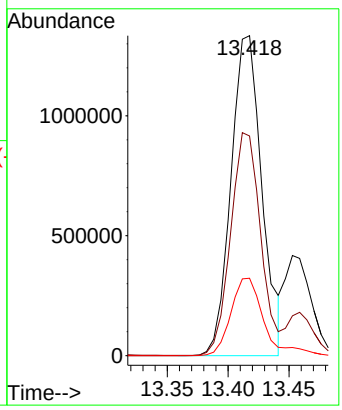




#83
tert-Butylbenzene
Concen: 164.130 ug/l
RT: 13.418 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:119 Resp: 235988

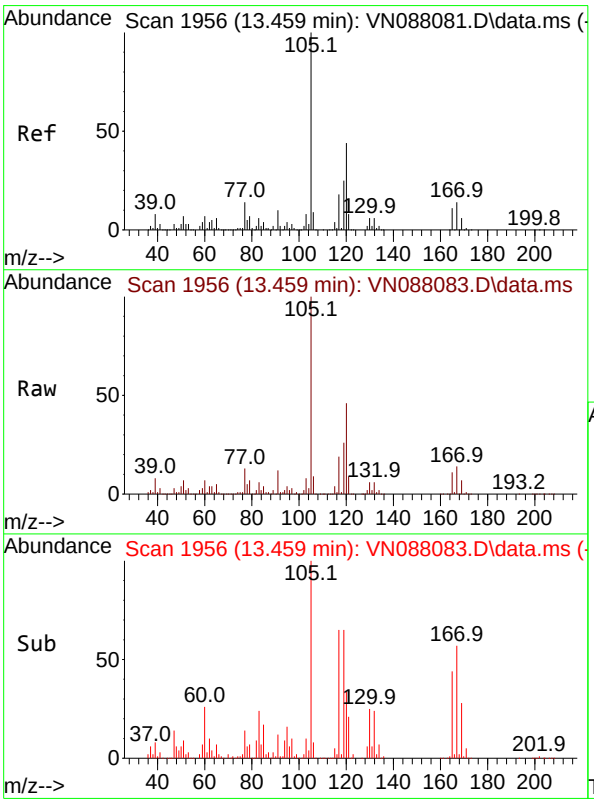
Ion	Ratio	Lower	Upper
119	100		
91	67.5	35.0	105.0
134	25.9	12.6	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

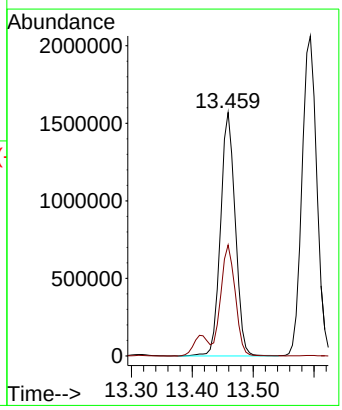
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

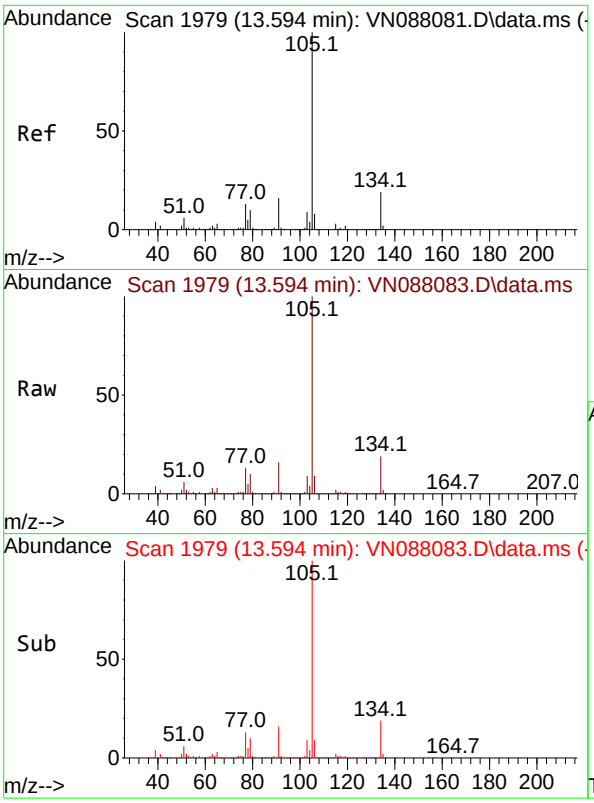


#84
1,2,4-Trimethylbenzene
Concen: 163.426 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:105 Resp: 2631783

Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.0	66.0

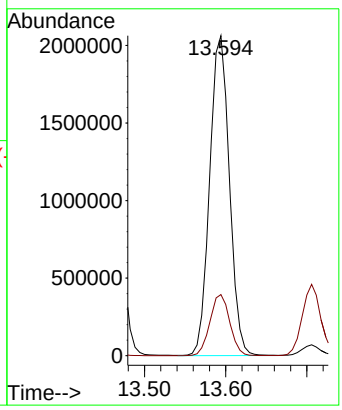




#85
sec-Butylbenzene
Concen: 164.725 ug/l
RT: 13.594 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:105 Resp: 347971

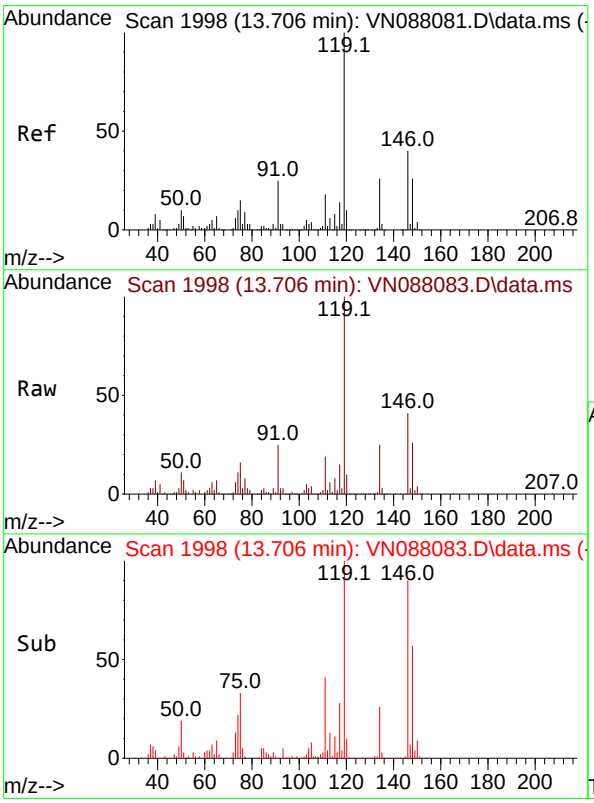
Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.6	28.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

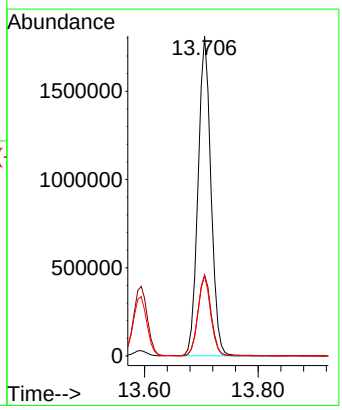
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

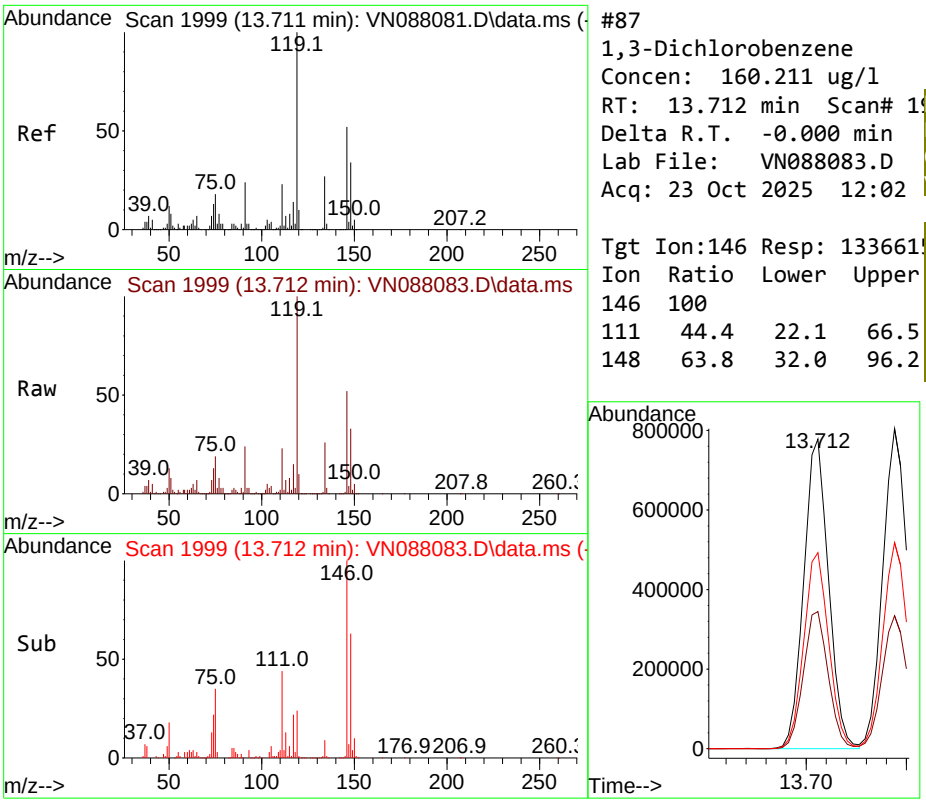


#86
p-Isopropyltoluene
Concen: 168.299 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:119 Resp: 2852012

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.7	38.0
91	24.9	12.5	37.5





#87
1,3-Dichlorobenzene
Concen: 160.211 ug/l
RT: 13.712 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

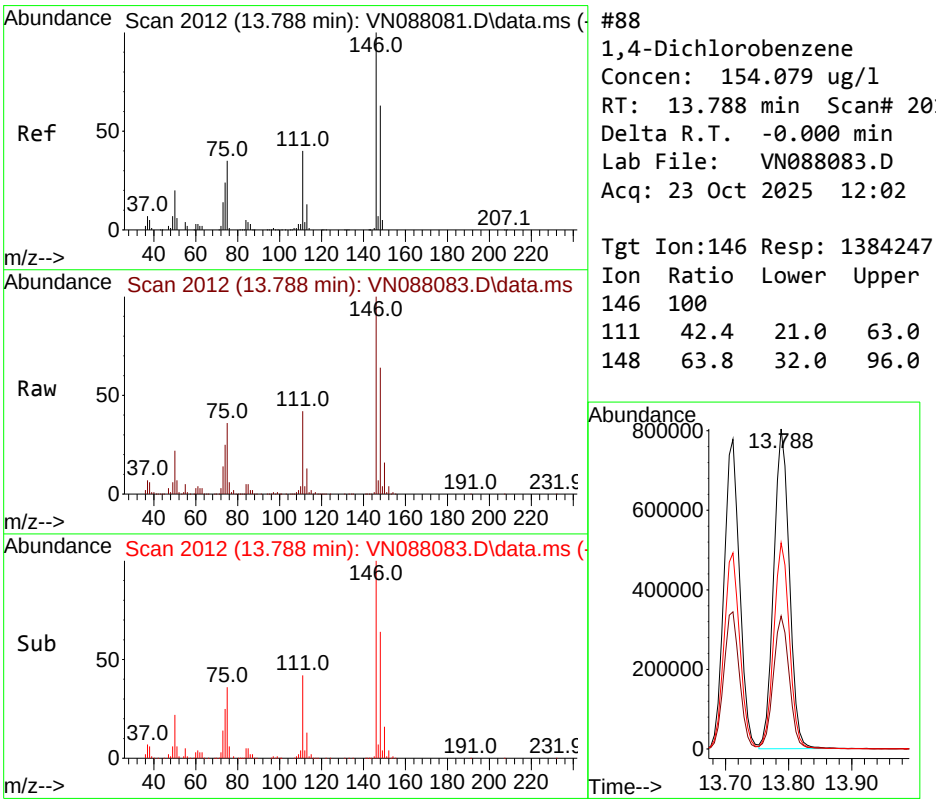
Tgt Ion:146 Resp: 133661

Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.1	66.5
148	63.8	32.0	96.2

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

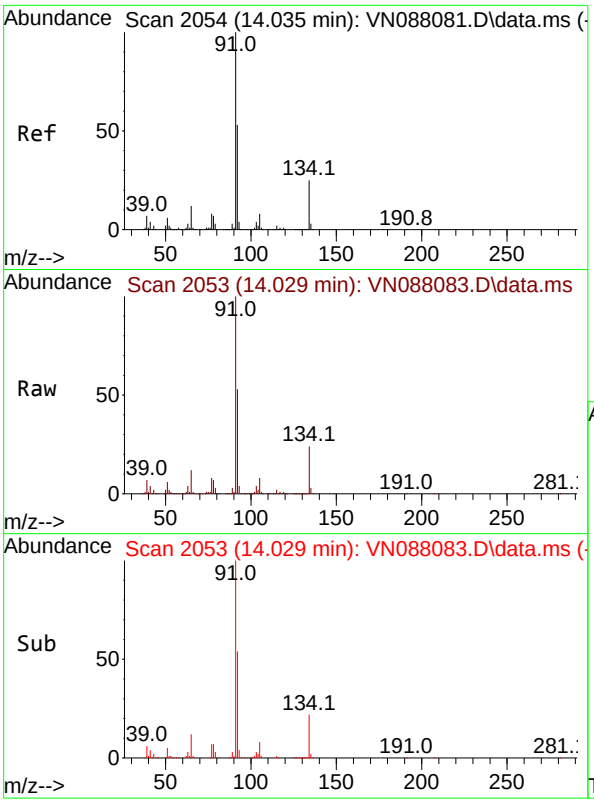
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#88
1,4-Dichlorobenzene
Concen: 154.079 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:146 Resp: 1384247

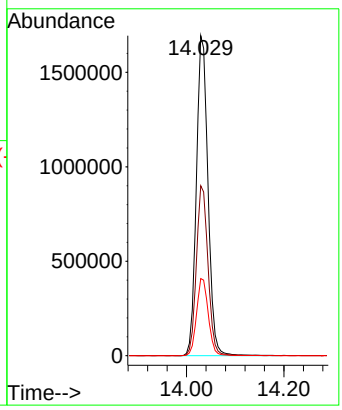
Ion	Ratio	Lower	Upper
146	100		
111	42.4	21.0	63.0
148	63.8	32.0	96.0



#89
n-Butylbenzene
Concen: 167.487 ug/l
RT: 14.029 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 91 Resp: 281141

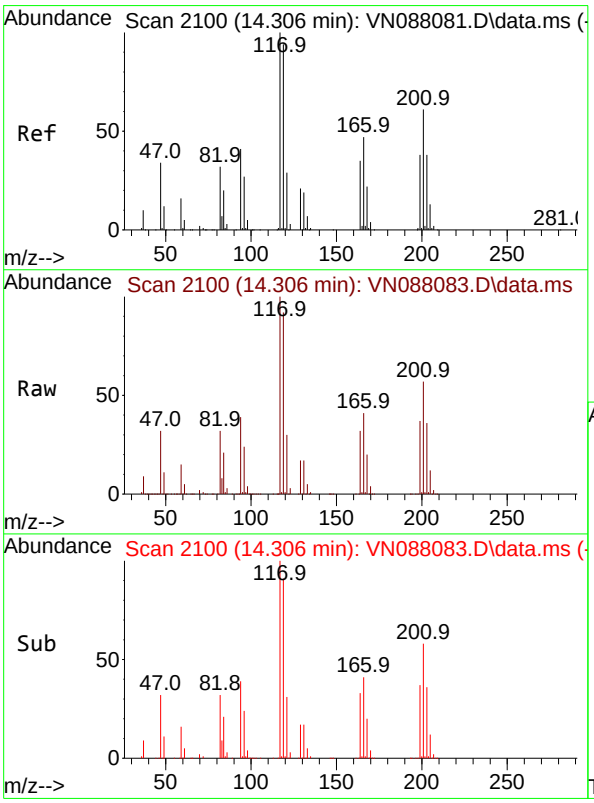
Ion	Ratio	Lower	Upper
91	100		
92	53.3	25.9	77.8
134	24.5	11.7	35.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

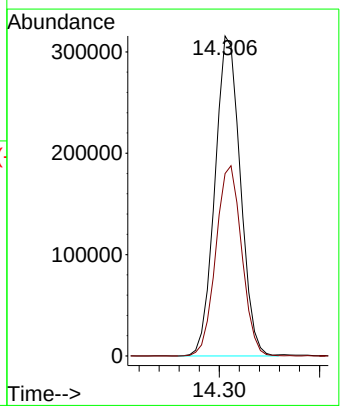
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

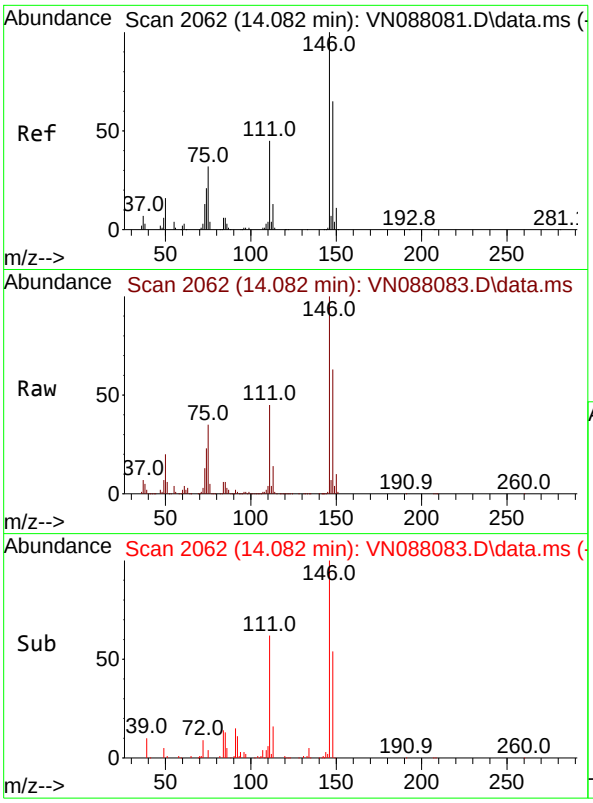


#90
Hexachloroethane
Concen: 168.991 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:117 Resp: 554569

Ion	Ratio	Lower	Upper
117	100		
201	60.5	29.1	87.4

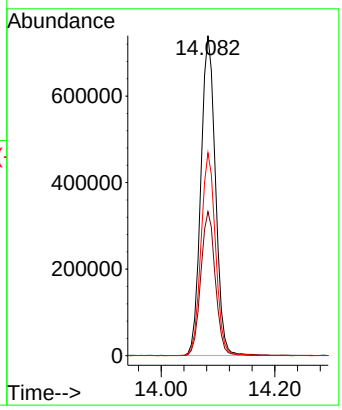




#91
1,2-Dichlorobenzene
Concen: 163.434 ug/l
RT: 14.082 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:146 Resp: 131434

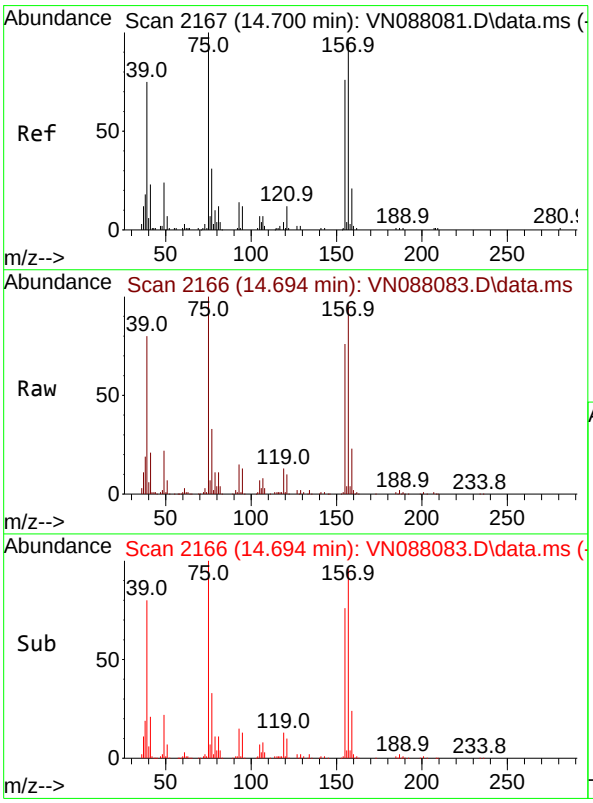
Ion	Ratio	Lower	Upper
146	100		
111	44.7	22.6	67.8
148	63.1	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

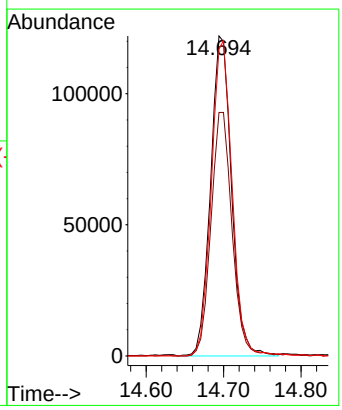
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

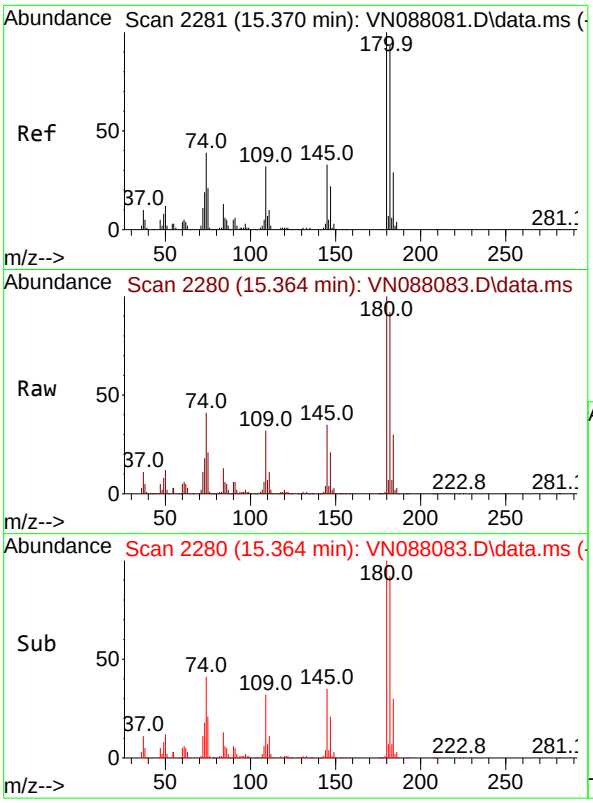


#92
1,2-Dibromo-3-Chloropropane
Concen: 163.663 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. -0.006 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion: 75 Resp: 229843

Ion	Ratio	Lower	Upper
75	100		
155	76.5	36.6	109.9
157	97.6	45.6	136.9

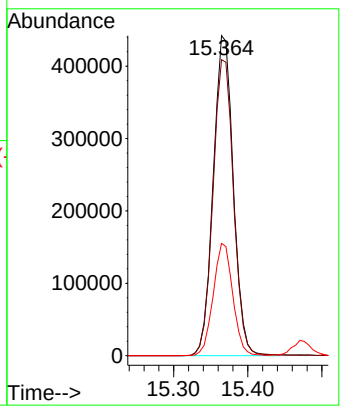




#93
1,2,4-Trichlorobenzene
Concen: 171.067 ug/l
RT: 15.364 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:180 Resp: 83316

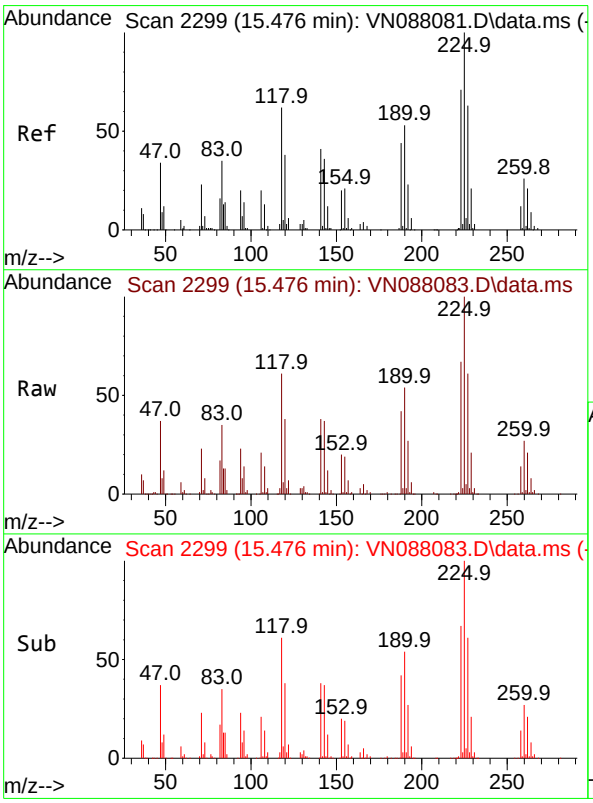
Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.6	142.9
145	34.2	16.5	49.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

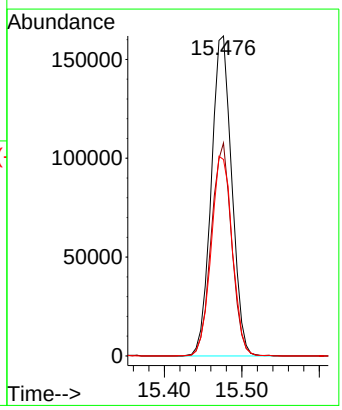
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

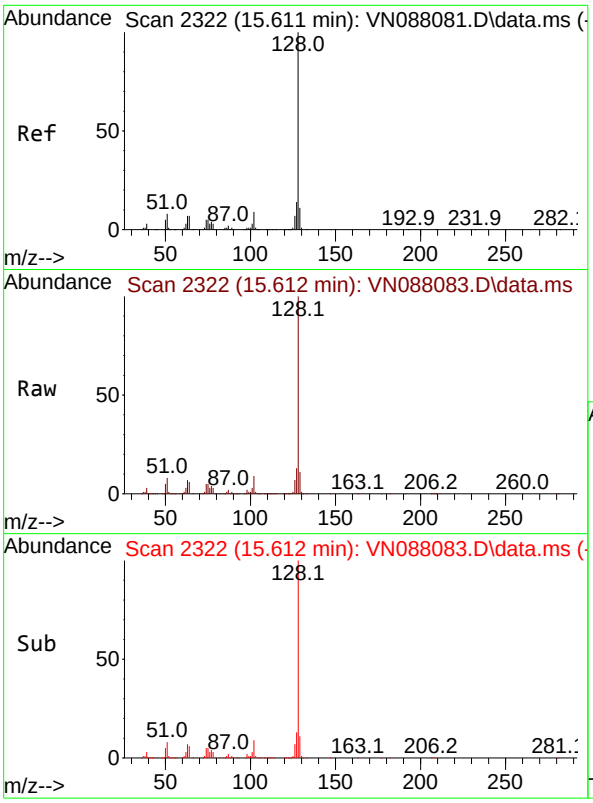


#94
Hexachlorobutadiene
Concen: 163.980 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:225 Resp: 297412

Ion	Ratio	Lower	Upper
225	100		
223	65.9	32.0	96.2
227	64.6	32.1	96.5

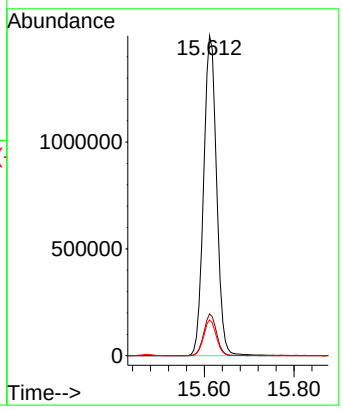




#95
Naphthalene
Concen: 180.155 ug/l
RT: 15.612 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:128 Resp: 300584

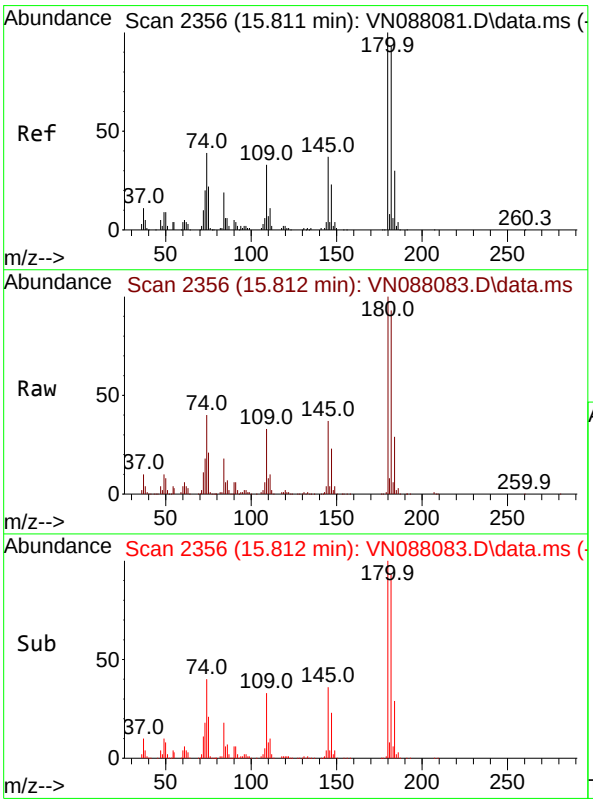
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	15.8
129	10.9	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

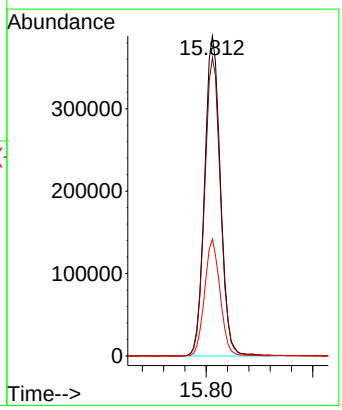
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 171.359 ug/l
RT: 15.812 min Scan# 2356
Delta R.T. -0.000 min
Lab File: VN088083.D
Acq: 23 Oct 2025 12:02

Tgt Ion:180 Resp: 800234

Ion	Ratio	Lower	Upper
180	100		
182	93.7	46.8	140.3
145	35.8	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088085.D
Acq On : 23 Oct 2025 14:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Quant Time: Oct 24 03:19:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 03:16:47 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	329791	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	629673	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	552962	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	275365	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	266313	46.699	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.400%			
35) Dibromofluoromethane	8.147	113	194019	45.865	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 91.740%			
50) Toluene-d8	10.547	98	763509	46.842	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.680%			
62) 4-Bromofluorobenzene	12.829	95	270623	47.012	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 94.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	181807	48.872	ug/l	100
3) Chloromethane	2.383	50	219077	50.058	ug/l	100
4) Vinyl Chloride	2.536	62	236939	49.688	ug/l	100
5) Bromomethane	2.971	94	148038	51.903	ug/l	99
6) Chloroethane	3.136	64	174590	50.817	ug/l	95
7) Trichlorofluoromethane	3.512	101	391081	51.420	ug/l	100
8) Diethyl Ether	3.959	74	151702	53.668	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	214444	54.641	ug/l	98
10) Methyl Iodide	4.583	142	188924	48.914	ug/l	94
11) Tert butyl alcohol	5.512	59	223370	227.357	ug/l	100
12) 1,1-Dichloroethene	4.336	96	214504	51.748	ug/l	99
13) Acrolein	4.177	56	314965	285.010	ug/l	99
14) Allyl chloride	5.012	41	338733	46.622	ug/l	97
15) Acrylonitrile	5.706	53	652411	243.784	ug/l	98
16) Acetone	4.418	43	708708	247.368	ug/l	98
17) Carbon Disulfide	4.706	76	597135	47.390	ug/l	98
18) Methyl Acetate	5.018	43	278412	47.467	ug/l	98
19) Methyl tert-butyl Ether	5.783	73	754371	49.555	ug/l	99
20) Methylene Chloride	5.259	84	226995	50.891	ug/l	98
21) trans-1,2-Dichloroethene	5.771	96	217864	47.883	ug/l	99
22) Diisopropyl ether	6.653	45	789811	51.691	ug/l	98
23) Vinyl Acetate	6.589	43	3597787	261.399	ug/l	99
24) 1,1-Dichloroethane	6.547	63	422648	49.935	ug/l	98
25) 2-Butanone	7.465	43	930039	246.326	ug/l	99
26) 2,2-Dichloropropane	7.471	77	384885	50.040	ug/l	99
27) cis-1,2-Dichloroethene	7.465	96	258806	49.410	ug/l	98
28) Bromochloromethane	7.794	49	202137	50.544	ug/l	100
29) Tetrahydrofuran	7.818	42	604070	245.497	ug/l	99
30) Chloroform	7.947	83	423655	50.104	ug/l	96
31) Cyclohexane	8.236	56	395022	49.485	ug/l	96
32) 1,1,1-Trichloroethane	8.147	97	374970	49.791	ug/l	98
36) 1,1-Dichloropropene	8.353	75	305017	49.383	ug/l	97
37) Ethyl Acetate	7.547	43	368137	46.186	ug/l	97
38) Carbon Tetrachloride	8.341	117	320797	50.287	ug/l	98
39) Methylcyclohexane	9.583	83	396292	49.916	ug/l	97
40) Benzene	8.588	78	933204	49.611	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088085.D
Acq On : 23 Oct 2025 14:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 24 03:19:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 03:16:47 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.759	41	201543	48.042	ug/l		99
42) 1,2-Dichloroethane	8.647	62	333208	49.855	ug/l		100
43) Isopropyl Acetate	8.671	43	617708	50.434	ug/l		98
44) Trichloroethene	9.330	130	215931	49.112	ug/l		97
45) 1,2-Dichloropropane	9.600	63	233818	49.237	ug/l		94
46) Dibromomethane	9.688	93	169580	50.069	ug/l		98
47) Bromodichloromethane	9.865	83	341897	50.420	ug/l		97
48) Methyl methacrylate	9.659	41	285311	50.456	ug/l		97
49) 1,4-Dioxane	9.677	88	68041	967.465	ug/l	#	99
51) 4-Methyl-2-Pentanone	10.424	43	1835452	253.315	ug/l		99
52) Toluene	10.606	92	584587	50.407	ug/l		98
53) t-1,3-Dichloropropene	10.818	75	378294	52.416	ug/l		98
54) cis-1,3-Dichloropropene	10.288	75	396097	51.721	ug/l		96
55) 1,1,2-Trichloroethane	10.994	97	212827	48.370	ug/l		96
56) Ethyl methacrylate	10.853	69	377487	54.214	ug/l		96
57) 1,3-Dichloropropane	11.141	76	393469	50.877	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.141	63	973004	268.651	ug/l		99
59) 2-Hexanone	11.177	43	1284662	267.268	ug/l		98
60) Dibromochloromethane	11.341	129	253809	50.751	ug/l		99
61) 1,2-Dibromoethane	11.447	107	226306	49.976	ug/l		99
64) Tetrachloroethene	11.082	164	175856	48.214	ug/l		97
65) Chlorobenzene	11.871	112	637824	50.798	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.935	131	209987	51.047	ug/l		98
67) Ethyl Benzene	11.941	91	1128615	51.208	ug/l		99
68) m/p-Xylenes	12.047	106	859721	104.109	ug/l		98
69) o-Xylene	12.376	106	414102	52.899	ug/l		97
70) Styrene	12.388	104	691022	54.133	ug/l		99
71) Bromoform	12.559	173	158376	51.590	ug/l	#	98
73) Isopropylbenzene	12.671	105	1095685	51.590	ug/l		99
74) N-amyl acetate	12.500	43	282147	58.174	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.918	83	327851	49.583	ug/l		100
76) 1,2,3-Trichloropropane	12.971	75	313480m	49.793	ug/l		
77) Bromobenzene	12.959	156	240684	52.553	ug/l		98
78) n-propylbenzene	13.012	91	1344076	51.859	ug/l		98
79) 2-Chlorotoluene	13.100	91	775440	52.463	ug/l		100
80) 1,3,5-Trimethylbenzene	13.147	105	914603	51.853	ug/l		98
81) trans-1,4-Dichloro-2-b...	12.718	75	115268	51.074	ug/l	#	80
82) 4-Chlorotoluene	13.200	91	807500	50.497	ug/l		98
83) tert-Butylbenzene	13.418	119	807306	51.237	ug/l		98
84) 1,2,4-Trimethylbenzene	13.459	105	923338	52.321	ug/l		99
85) sec-Butylbenzene	13.594	105	1189055	51.364	ug/l		99
86) p-Isopropyltoluene	13.706	119	993123	53.478	ug/l		100
87) 1,3-Dichlorobenzene	13.712	146	469549	51.358	ug/l		99
88) 1,4-Dichlorobenzene	13.788	146	481076	48.992	ug/l		99
89) n-Butylbenzene	14.035	91	950993	51.698	ug/l		98
90) Hexachloroethane	14.306	117	181442	50.453	ug/l		96
91) 1,2-Dichlorobenzene	14.082	146	447427	50.769	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	72041	46.810	ug/l		97
93) 1,2,4-Trichlorobenzene	15.365	180	265531	49.750	ug/l		99
94) Hexachlorobutadiene	15.470	225	96309	48.455	ug/l		97
95) Naphthalene	15.612	128	919023	50.263	ug/l		100
96) 1,2,3-Trichlorobenzene	15.812	180	250044	48.860	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088085.D
Acq On : 23 Oct 2025 14:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Quant Time: Oct 24 03:19:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 03:16:47 2025
Response via : Initial Calibration

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

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

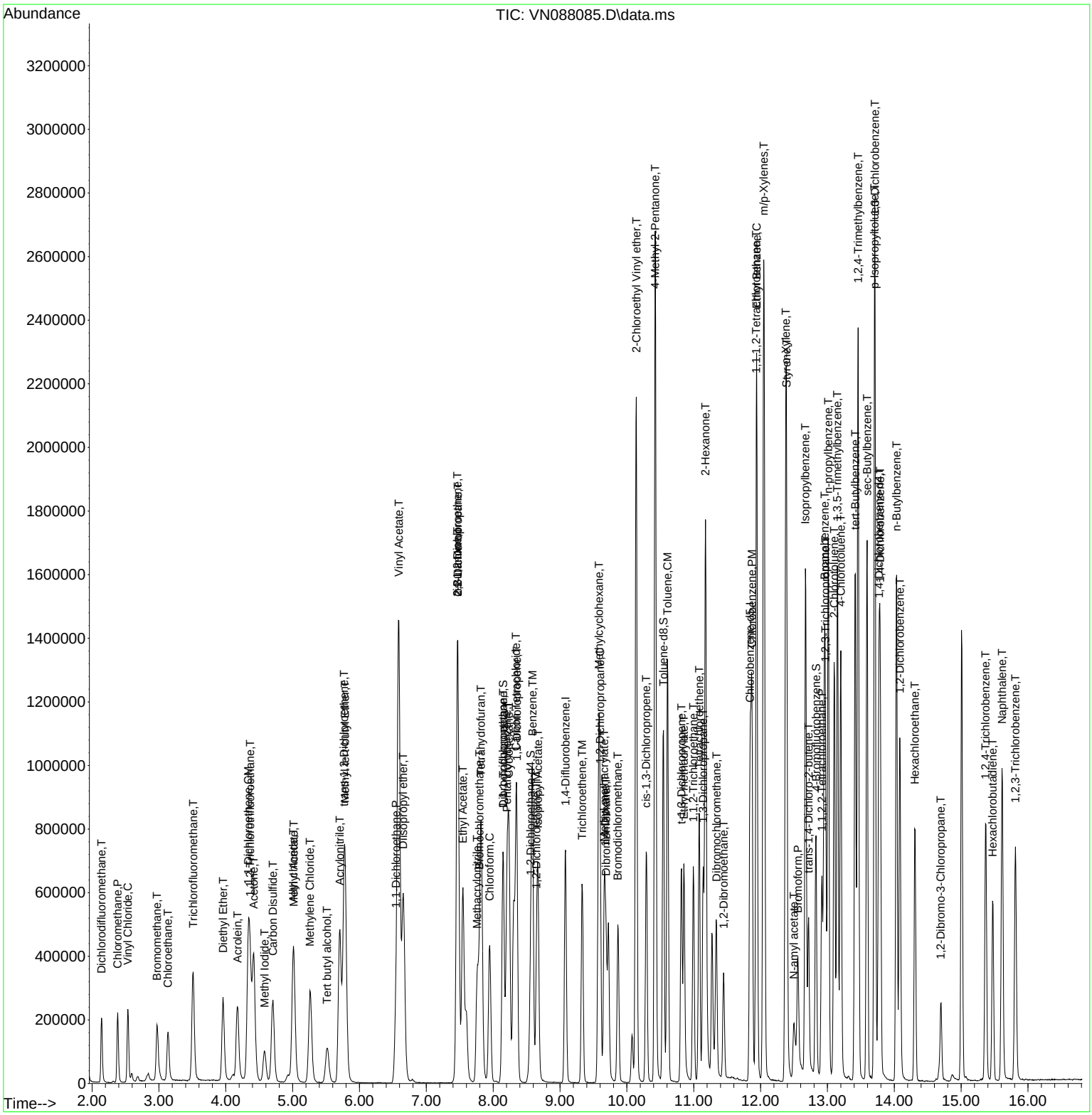
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Data File : VN088085.D
Acq On : 23 Oct 2025 14:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

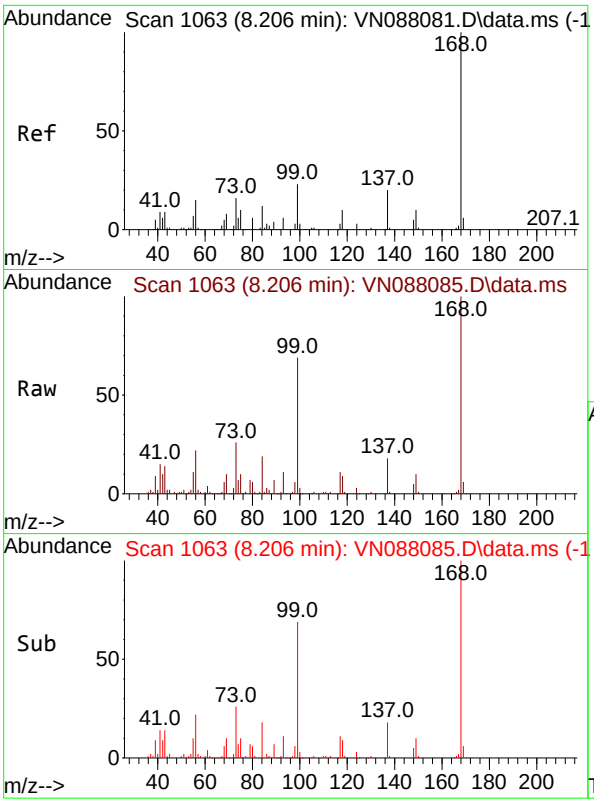
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 03:16:47 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

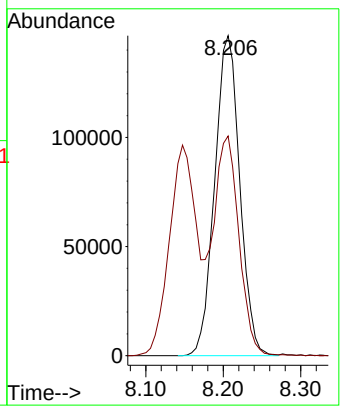




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:168 Resp: 32979

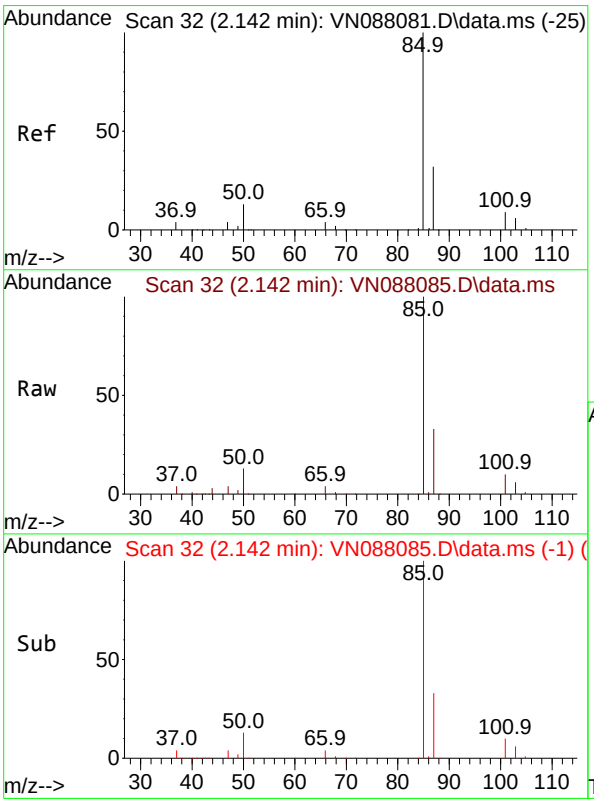
Ion	Ratio	Lower	Upper
168	100		
99	68.4	57.2	85.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

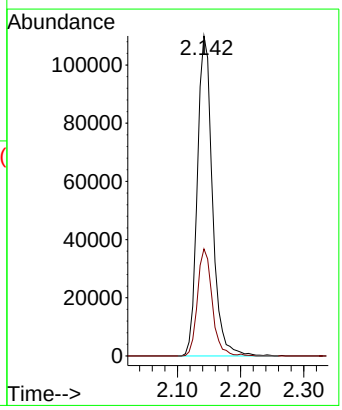
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

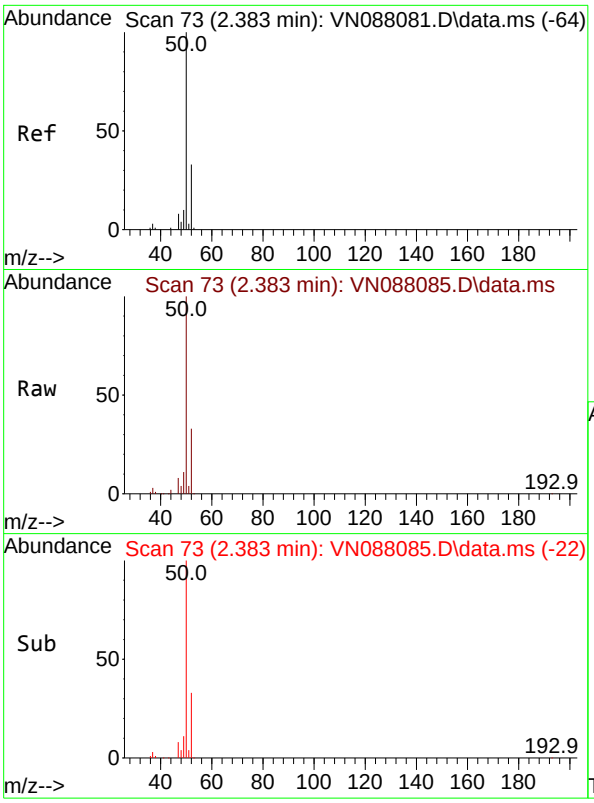


#2
Dichlorodifluoromethane
Concen: 48.872 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 85 Resp: 181807

Ion	Ratio	Lower	Upper
85	100		
87	33.4	16.6	49.8

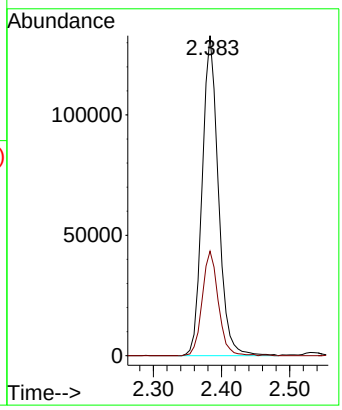




#3
Chloromethane
Concen: 50.058 ug/l
RT: 2.383 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 50 Resp: 21907

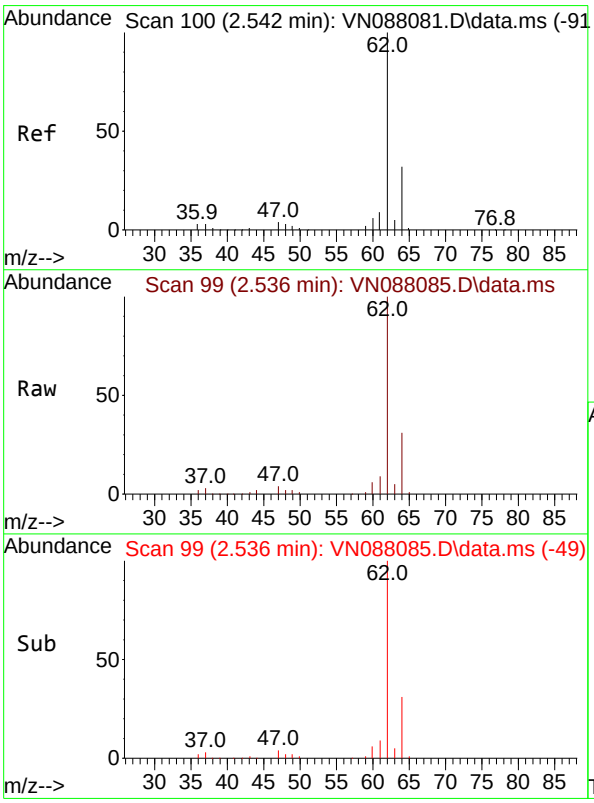
Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

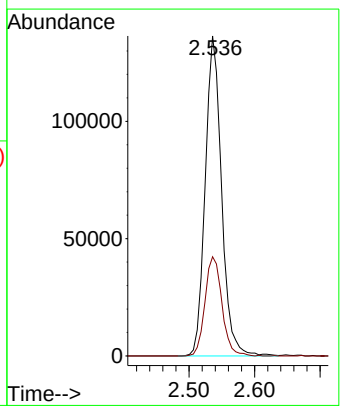
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

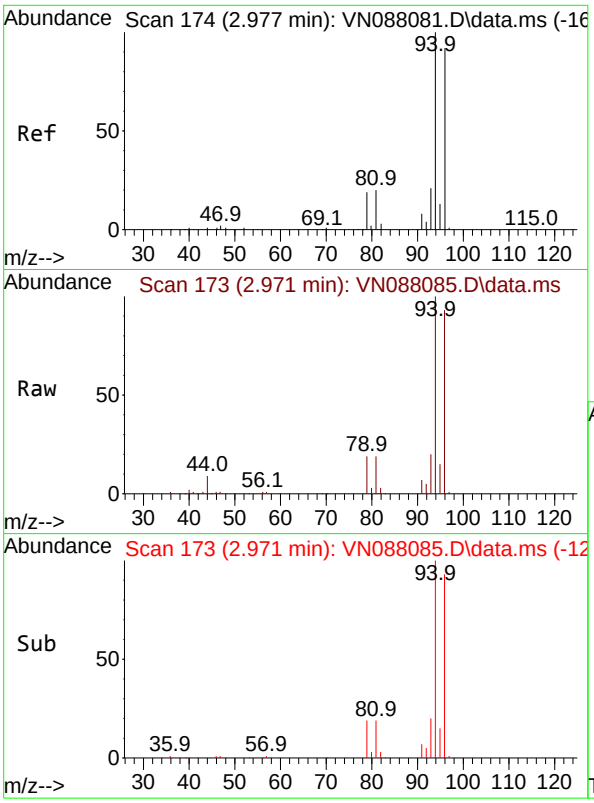


#4
Vinyl Chloride
Concen: 49.688 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 62 Resp: 236939

Ion	Ratio	Lower	Upper
62	100		
64	31.0	24.6	37.0

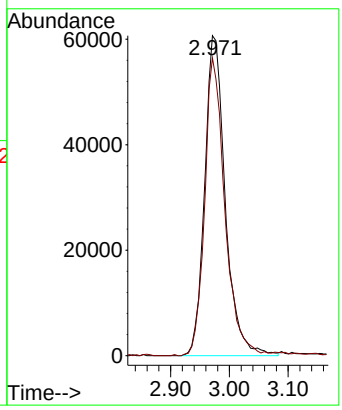




#5
Bromomethane
Concen: 51.903 ug/l
RT: 2.971 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 94 Resp: 14803

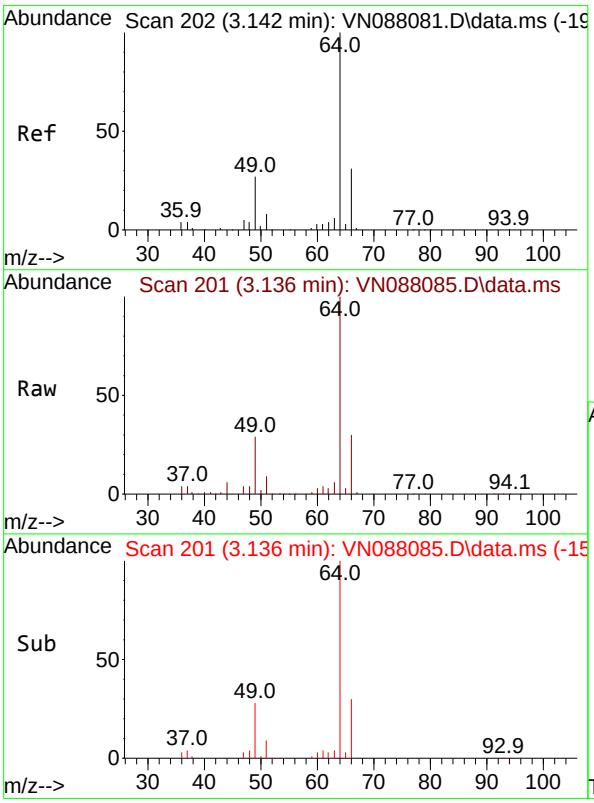
Ion	Ratio	Lower	Upper
94	100		
96	93.1	75.4	113.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

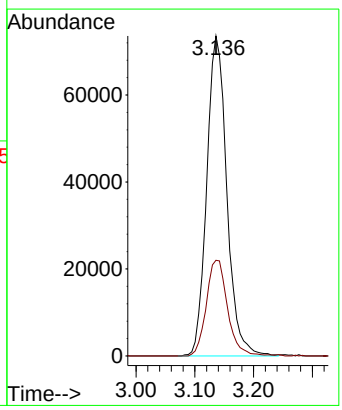
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

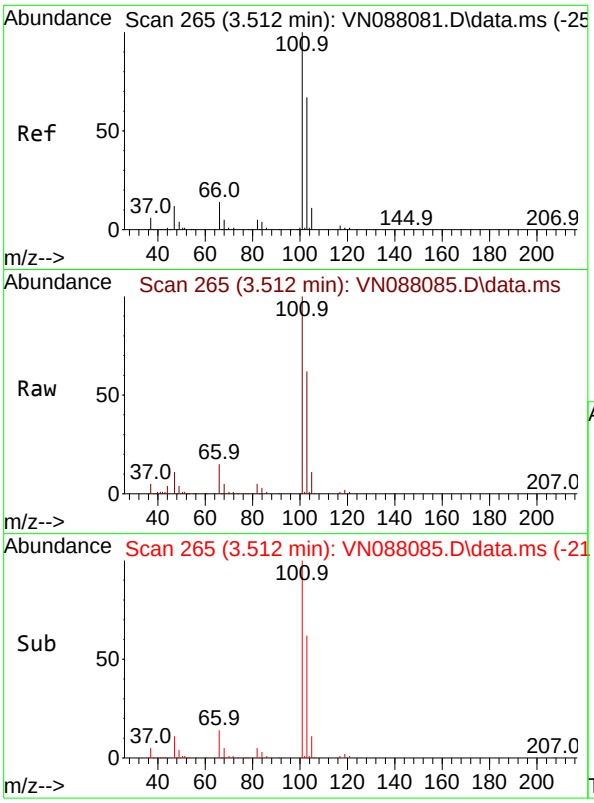


#6
Chloroethane
Concen: 50.817 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 64 Resp: 174590

Ion	Ratio	Lower	Upper
64	100		
66	29.9	26.2	39.2

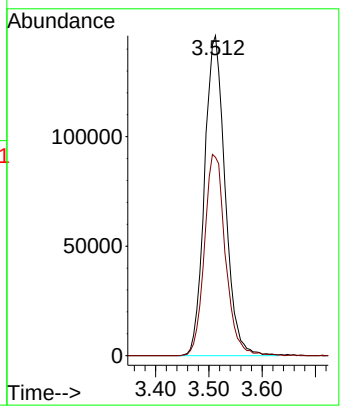




#7
Trichlorofluoromethane
Concen: 51.420 ug/l
RT: 3.512 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:101 Resp: 39108

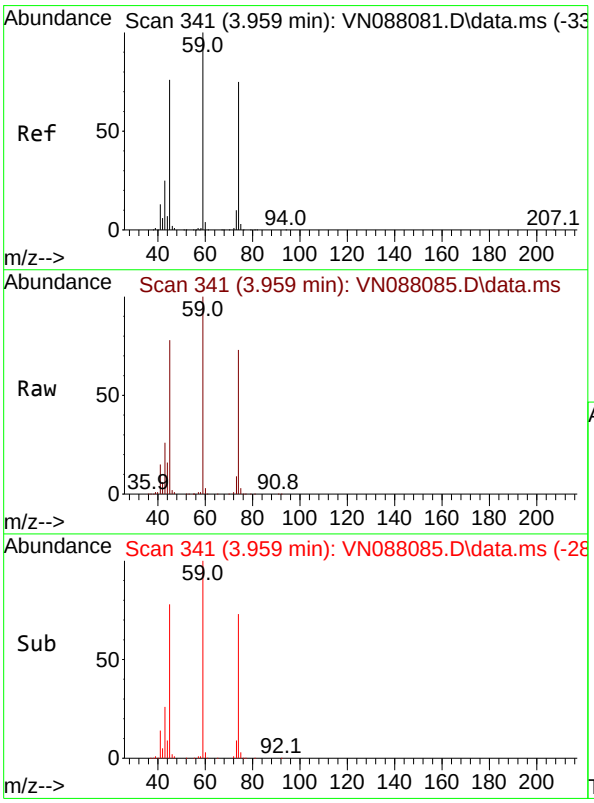
Ion	Ratio	Lower	Upper
101	100		
103	62.0	49.4	74.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

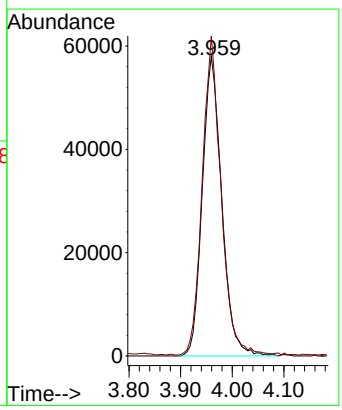
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

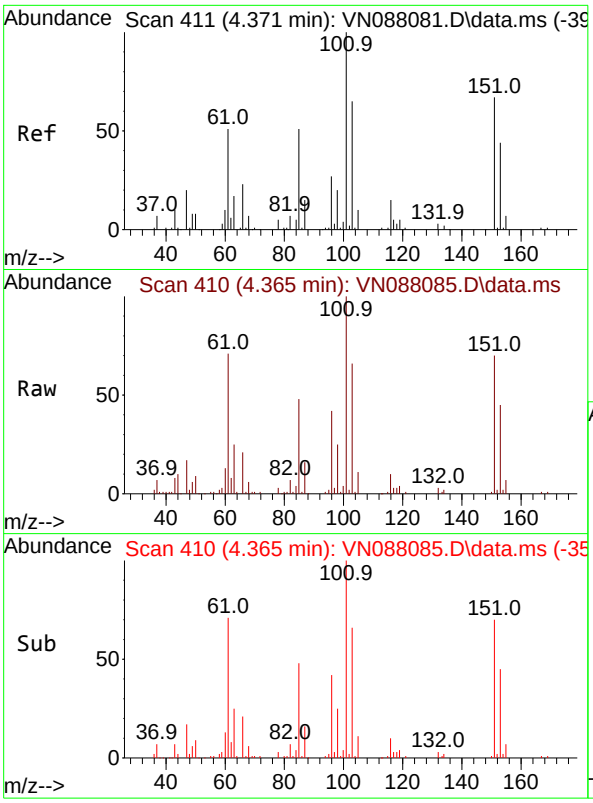


#8
Diethyl Ether
Concen: 53.668 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 74 Resp: 151702

Ion	Ratio	Lower	Upper
74	100		
45	102.6	50.6	151.9

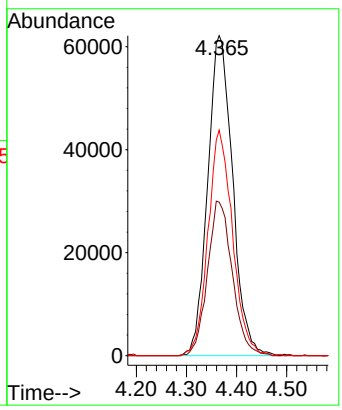




#9
1,1,2-Trichlorotrifluoroethane
Concen: 54.641 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:101 Resp: 21444

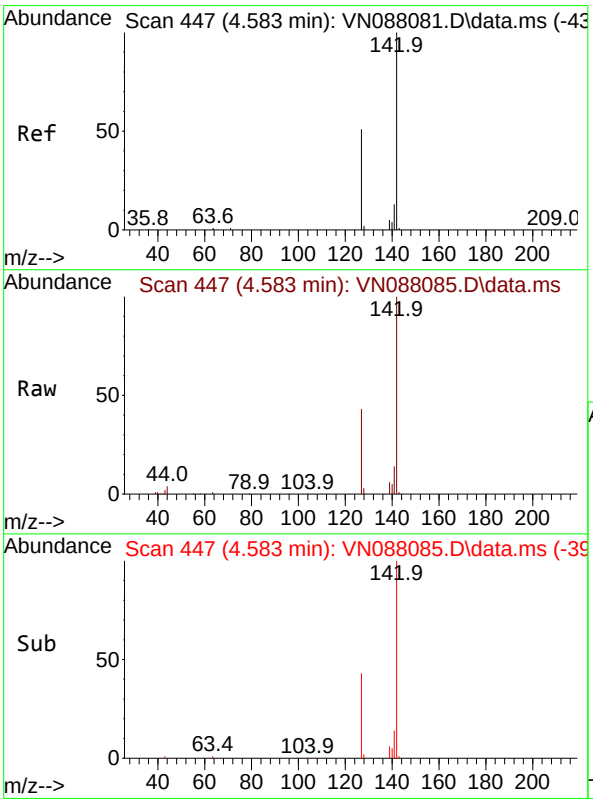
Ion	Ratio	Lower	Upper
101	100		
85	48.1	36.6	55.0
151	69.3	54.7	82.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

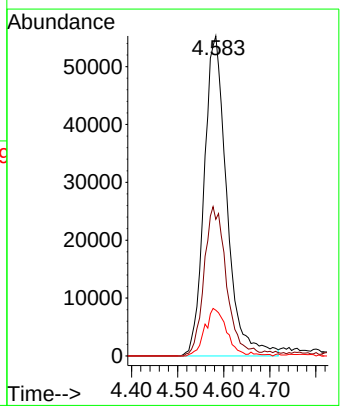
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

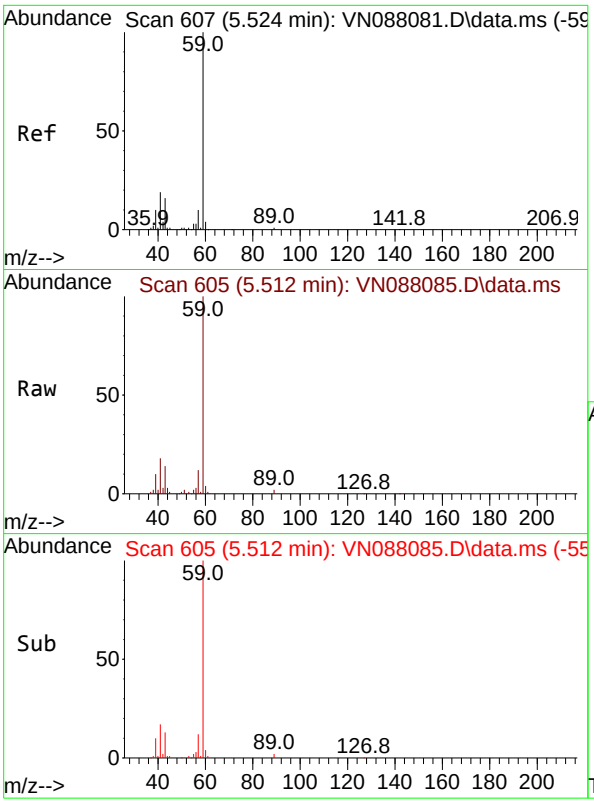


#10
Methyl Iodide
Concen: 48.914 ug/l
RT: 4.583 min Scan# 447
Delta R.T. 0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:142 Resp: 188924

Ion	Ratio	Lower	Upper
142	100		
127	42.7	38.0	57.0
141	14.3	12.0	18.0

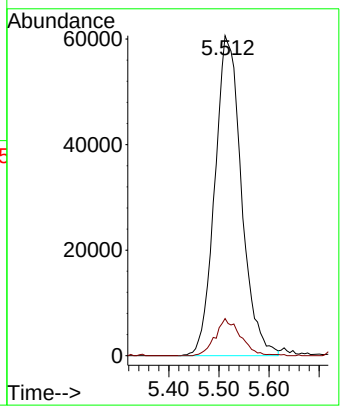




#11
Tert butyl alcohol
Concen: 227.357 ug/l
RT: 5.512 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 59 Resp: 22337

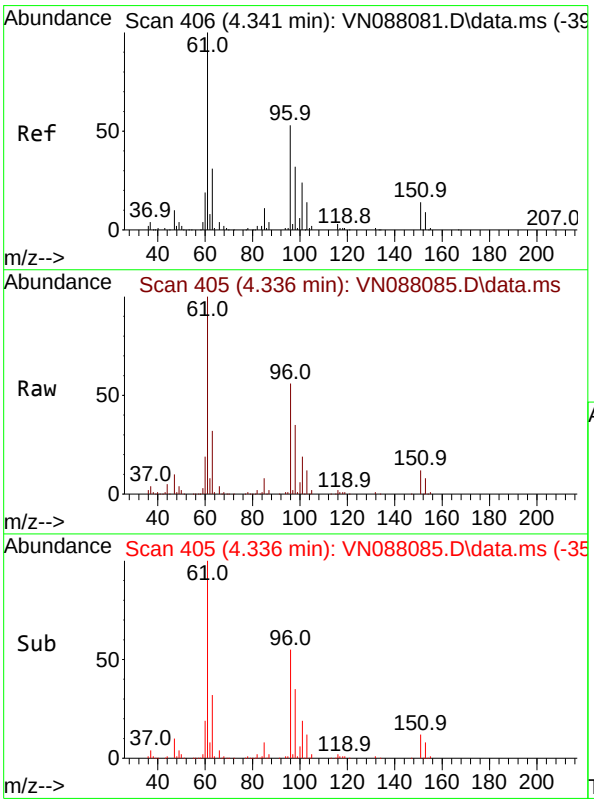
Ion	Ratio	Lower	Upper
59	100		
57	11.1	9.0	13.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

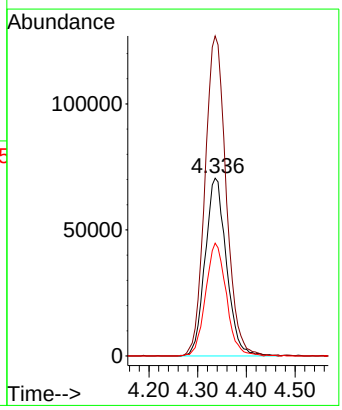
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

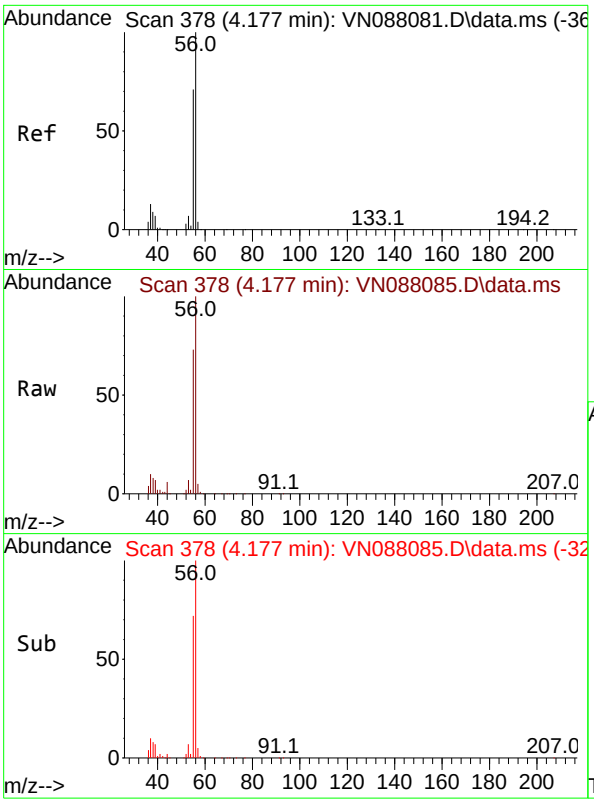


#12
1,1-Dichloroethene
Concen: 51.748 ug/l
RT: 4.336 min Scan# 405
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 96 Resp: 214504

Ion	Ratio	Lower	Upper
96	100		
61	180.0	143.8	215.8
98	63.5	52.1	78.1

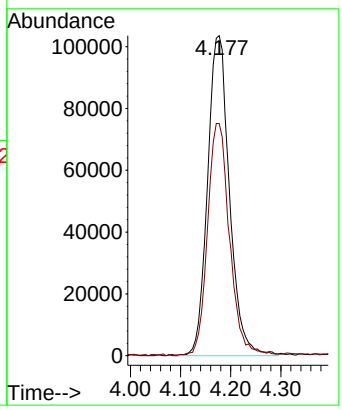




#13
Acrolein
Concen: 285.010 ug/l
RT: 4.177 min Scan# 3
Delta R.T. 0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 56 Resp: 31496

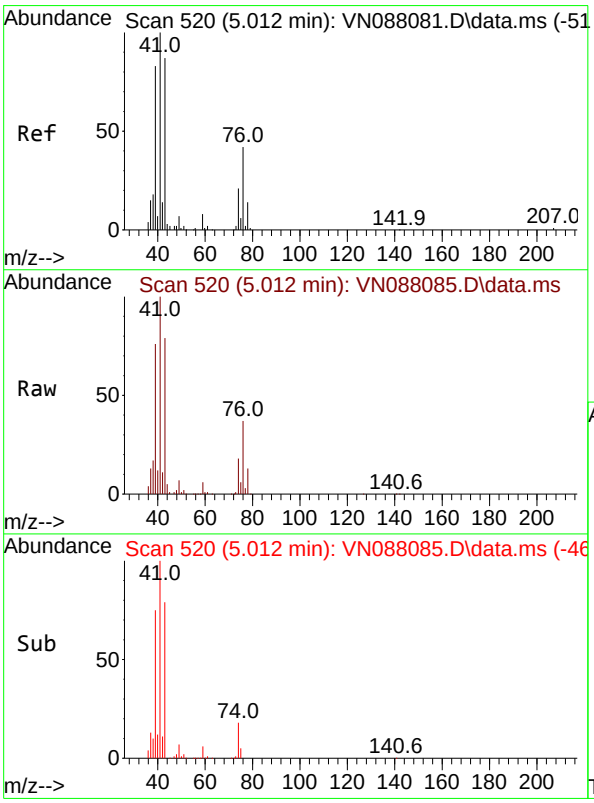
Ion	Ratio	Lower	Upper
56	100		
55	72.1	57.3	85.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

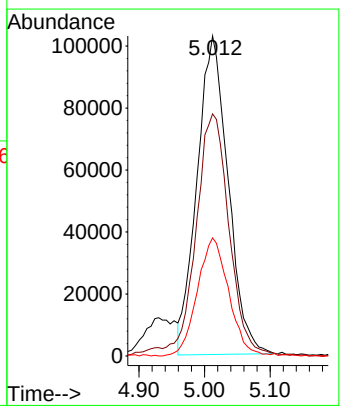
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

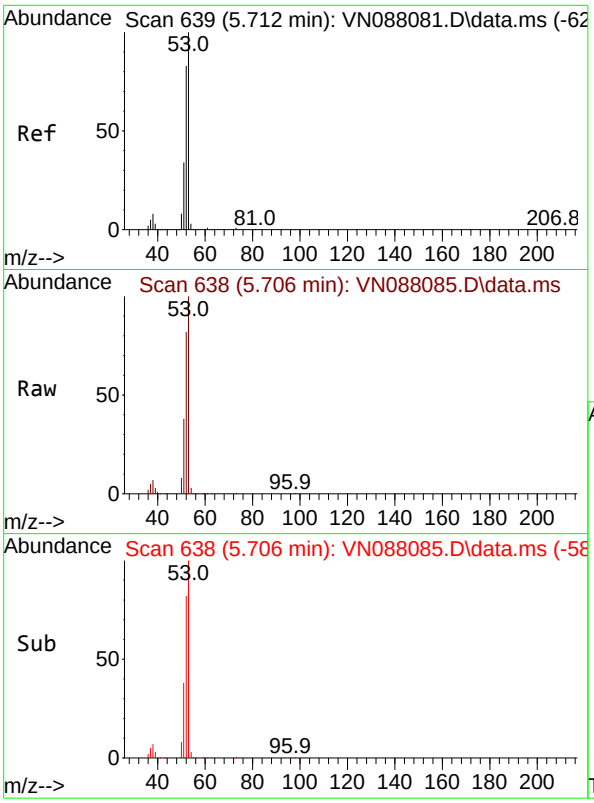


#14
Allyl chloride
Concen: 46.622 ug/l
RT: 5.012 min Scan# 520
Delta R.T. 0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 41 Resp: 338733

Ion	Ratio	Lower	Upper
41	100		
39	82.1	63.9	95.9
76	37.5	28.1	42.1

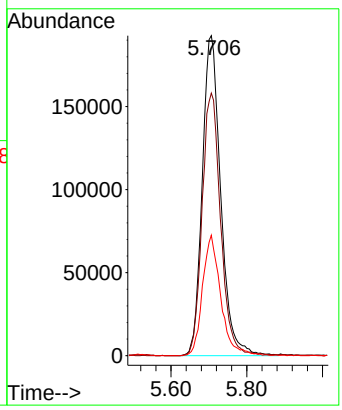




#15
Acrylonitrile
Concen: 243.784 ug/l
RT: 5.706 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 53 Resp: 65241

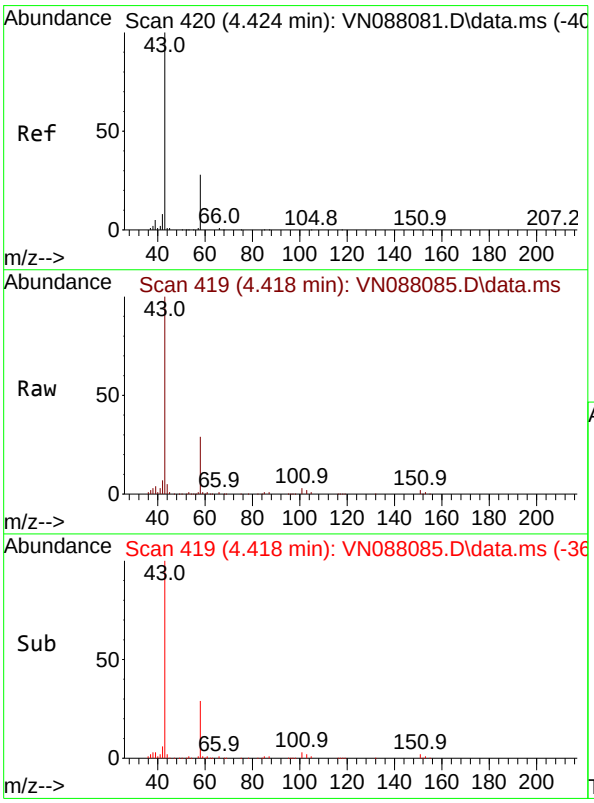
Ion	Ratio	Lower	Upper
53	100		
52	82.1	67.6	101.4
51	37.1	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

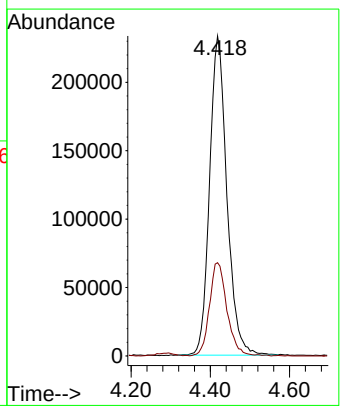
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

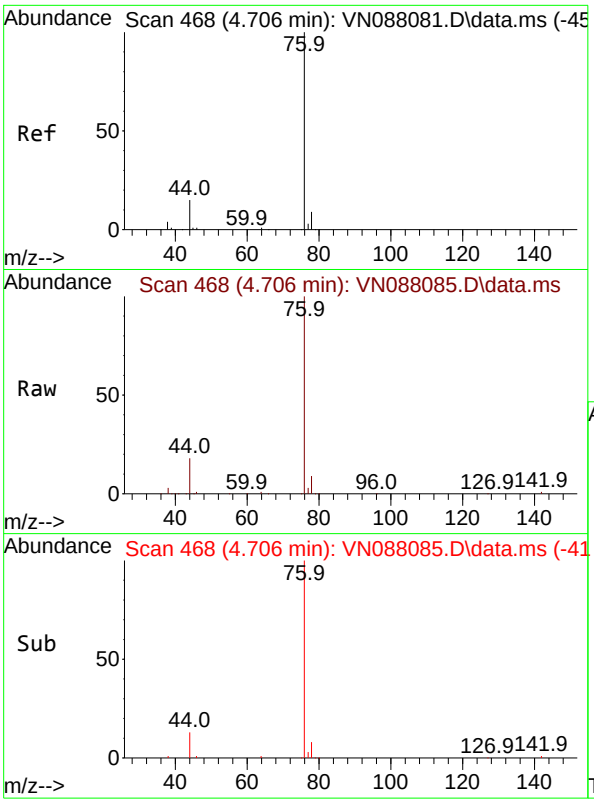


#16
Acetone
Concen: 247.368 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 43 Resp: 708708

Ion	Ratio	Lower	Upper
43	100		
58	29.1	22.6	33.8

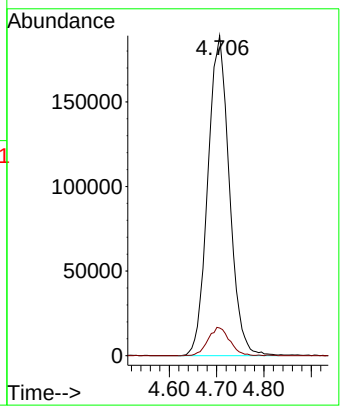




#17
Carbon Disulfide
Concen: 47.390 ug/l
RT: 4.706 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 76 Resp: 59713

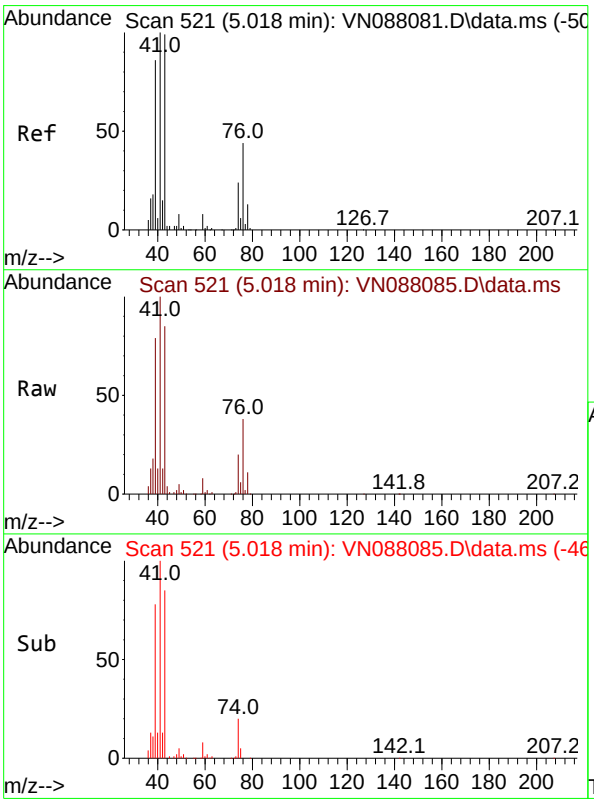
Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.6	11.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

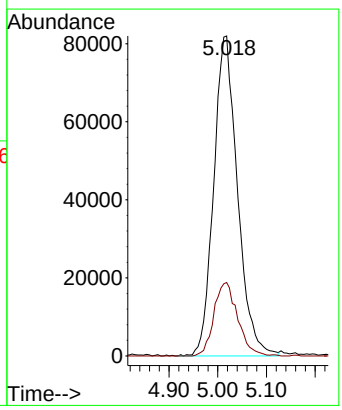
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

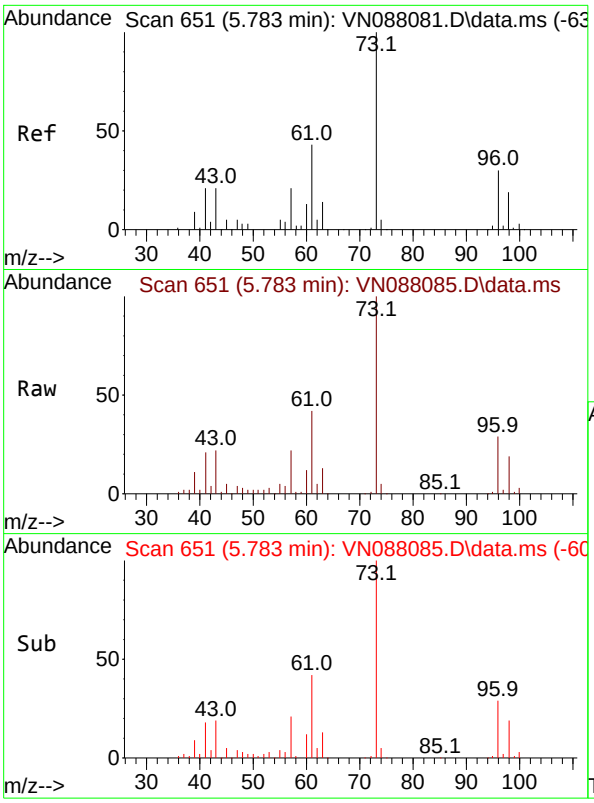


#18
Methyl Acetate
Concen: 47.467 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 43 Resp: 278412

Ion	Ratio	Lower	Upper
43	100		
74	22.9	17.6	26.4

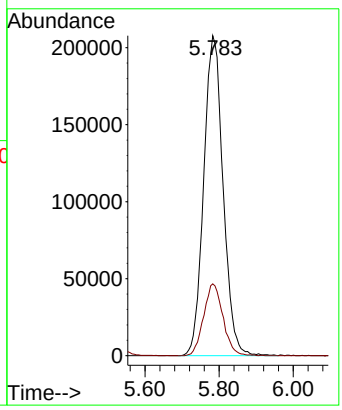




#19
Methyl tert-butyl Ether
Concen: 49.555 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 73 Resp: 75437

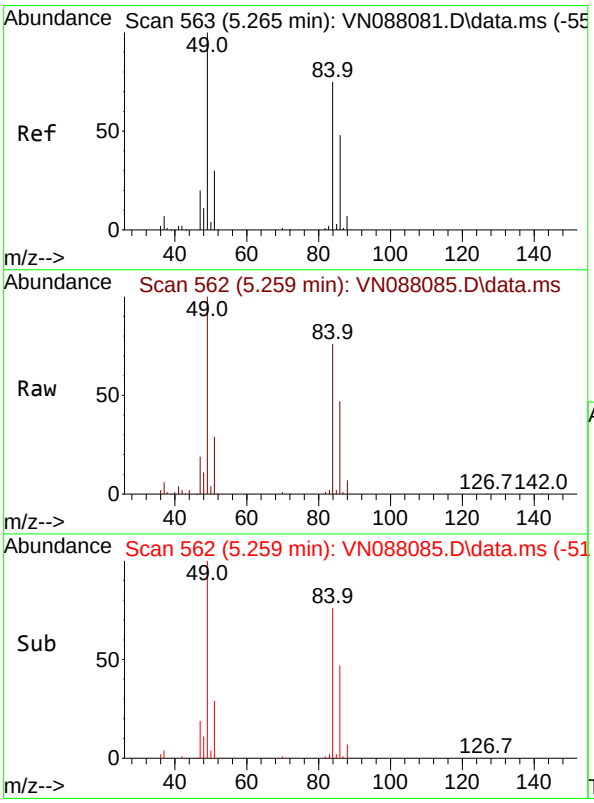
Ion	Ratio	Lower	Upper
73	100		
57	22.5	18.4	27.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

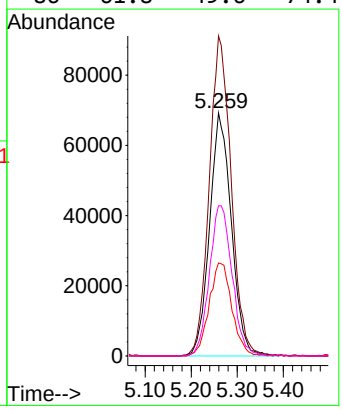
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

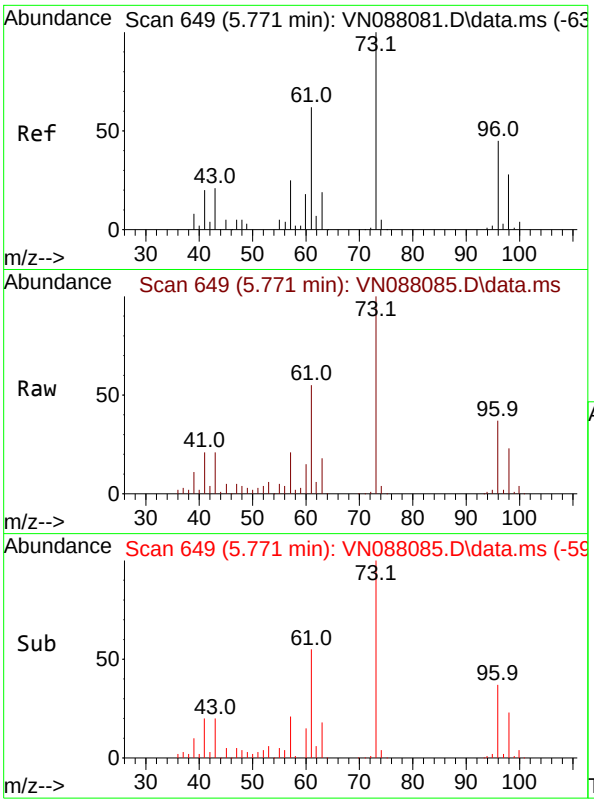


#20
Methylene Chloride
Concen: 50.891 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 84 Resp: 226995

Ion	Ratio	Lower	Upper
84	100		
49	131.7	103.4	155.2
51	38.2	33.8	50.8
86	61.8	49.6	74.4

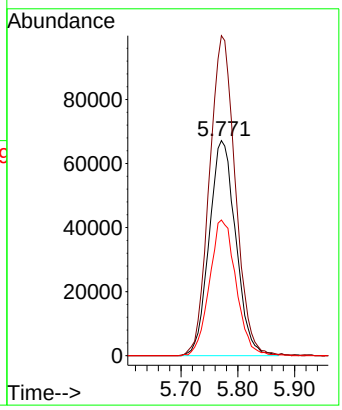




#21
trans-1,2-Dichloroethene
Concen: 47.883 ug/l
RT: 5.771 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 96 Resp: 21786

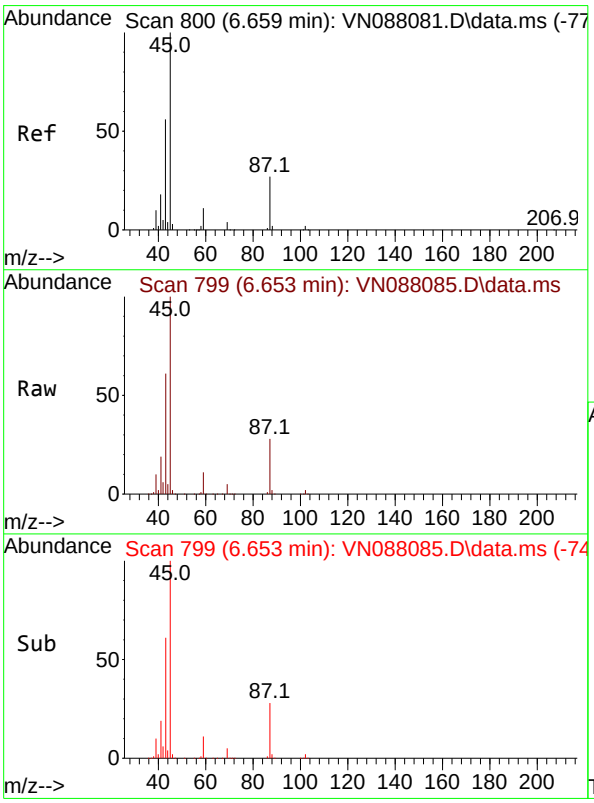
Ion	Ratio	Lower	Upper
96	100		
61	148.8	118.0	177.0
98	63.1	50.0	75.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

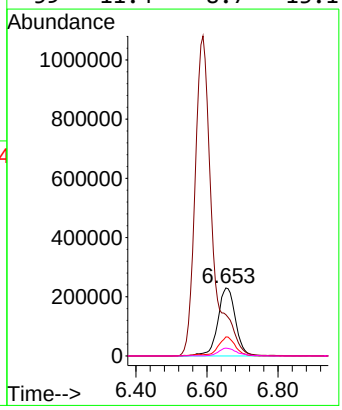
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

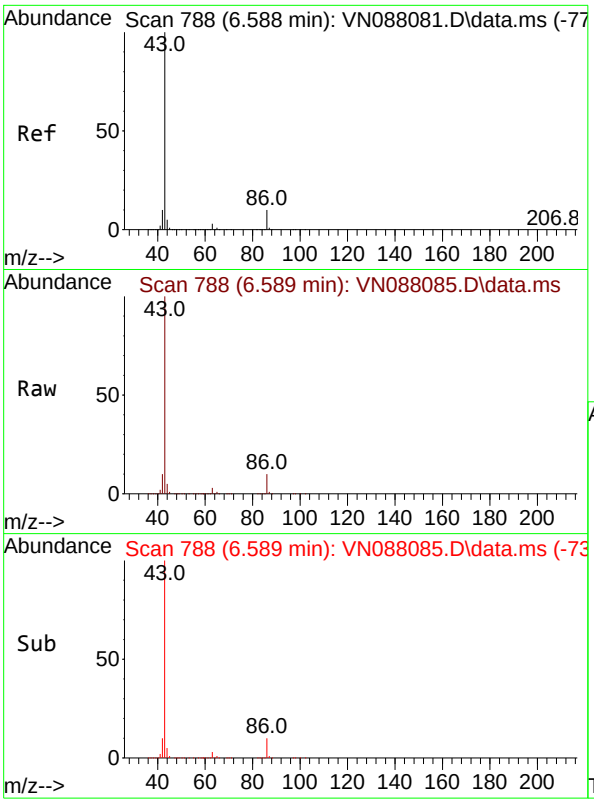


#22
Diisopropyl ether
Concen: 51.691 ug/l
RT: 6.653 min Scan# 799
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 45 Resp: 789811

Ion	Ratio	Lower	Upper
45	100		
43	60.4	47.7	71.5
87	28.1	21.4	32.0
59	11.4	8.7	13.1

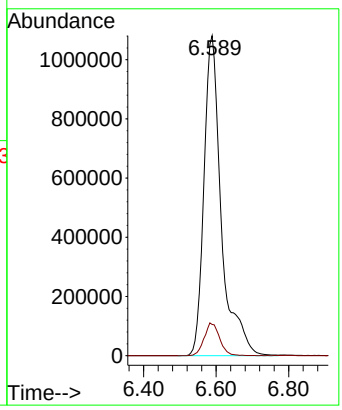




#23
Vinyl Acetate
Concen: 261.399 ug/l
RT: 6.589 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 43 Resp: 359778

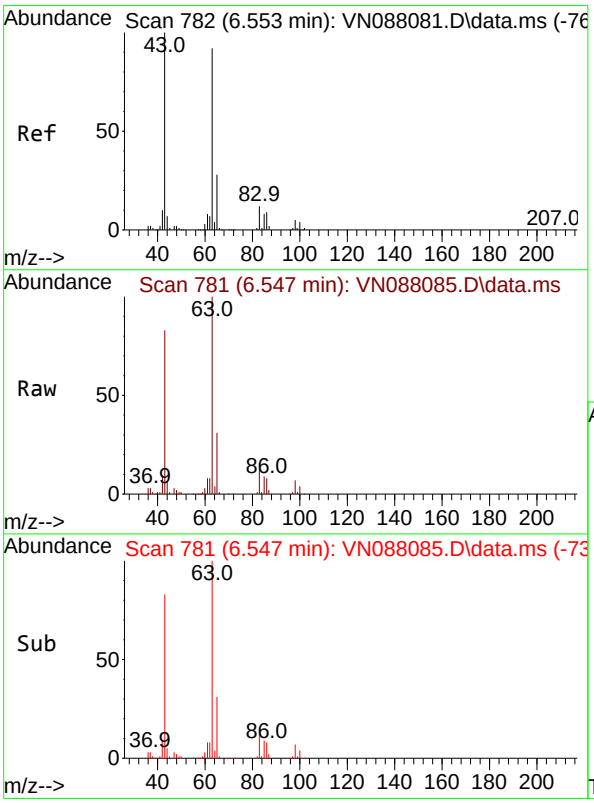
Ion	Ratio	Lower	Upper
43	100		
86	9.7	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

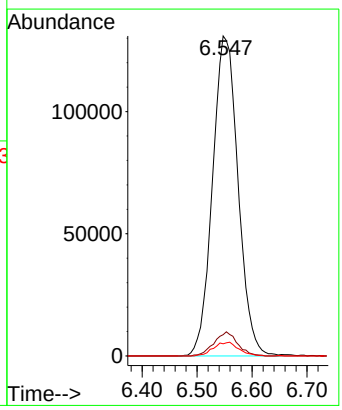
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

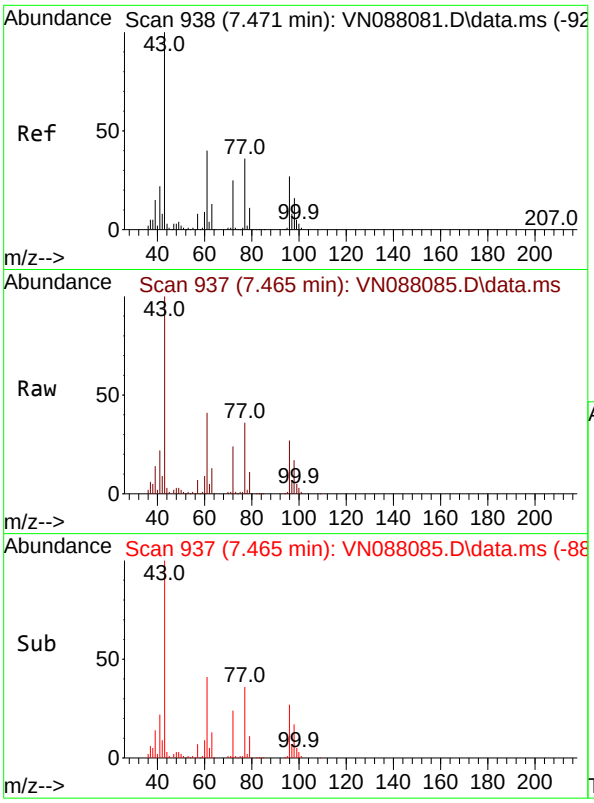


#24
1,1-Dichloroethane
Concen: 49.935 ug/l
RT: 6.547 min Scan# 781
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 63 Resp: 422648

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.8	11.4
100	3.8	2.0	6.0





#25
2-Butanone
Concen: 246.326 ug/l
RT: 7.465 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

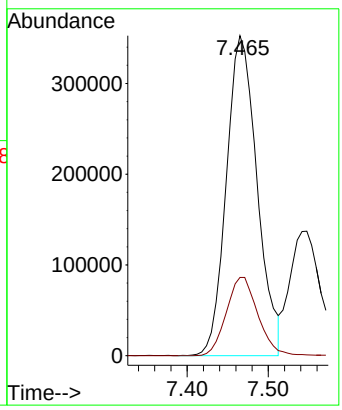
Tgt Ion: 43 Resp: 93003

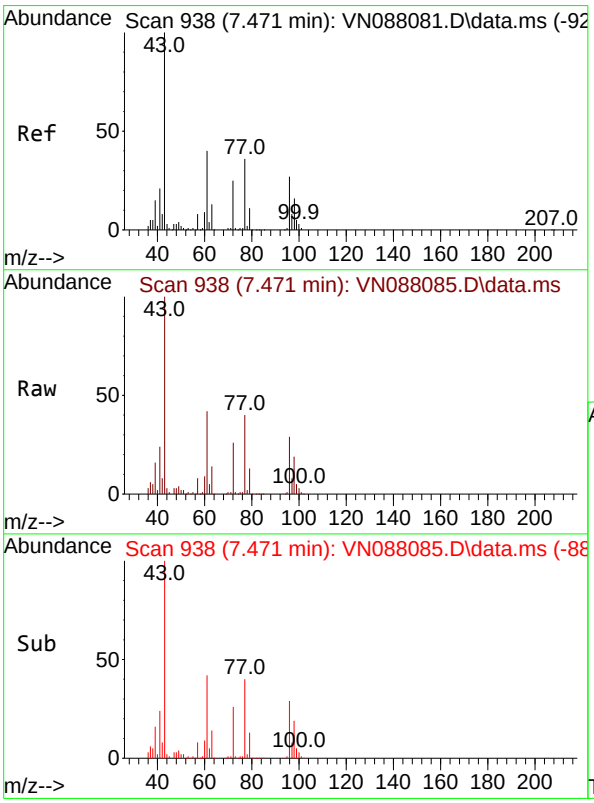
Ion	Ratio	Lower	Upper
43	100		
72	24.5	19.9	29.9

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

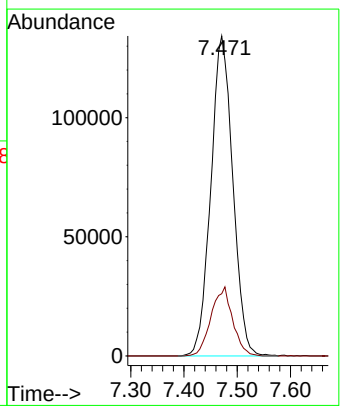


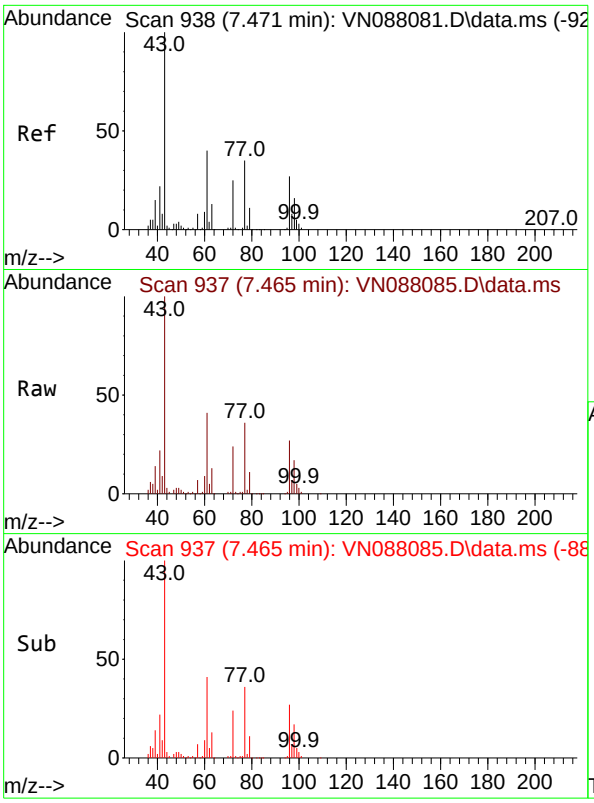


#26
2,2-Dichloropropane
Concen: 50.040 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 77 Resp: 384885

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.9	32.7

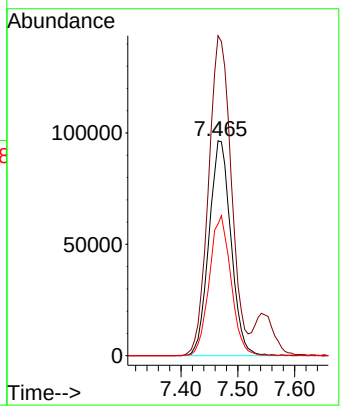




#27
cis-1,2-Dichloroethene
Concen: 49.410 ug/l
RT: 7.465 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 96 Resp: 25880

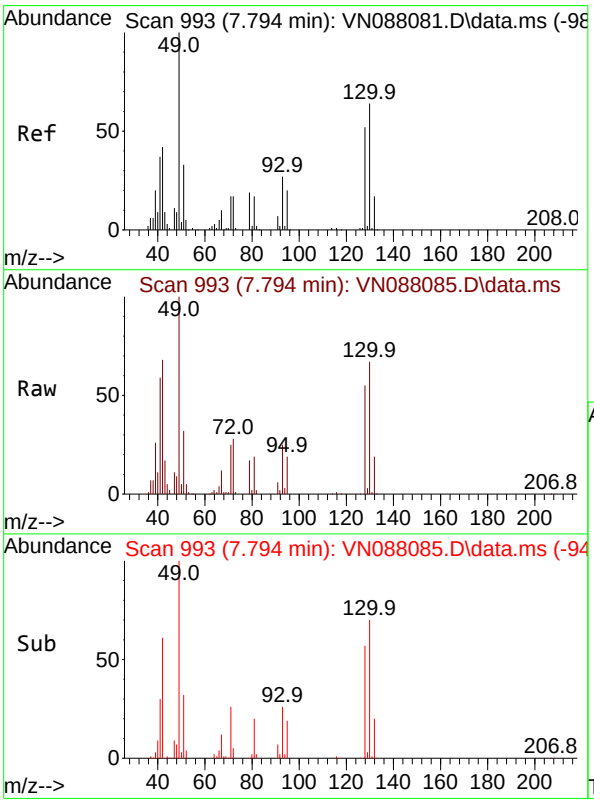
Ion	Ratio	Lower	Upper
96	100		
61	154.2	0.0	301.8
98	64.3	0.0	126.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

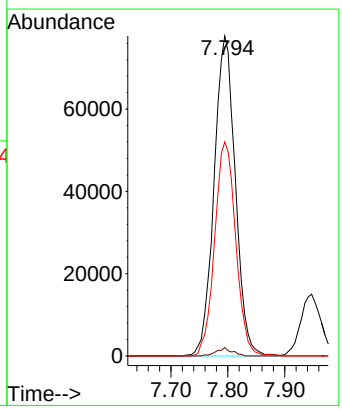
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

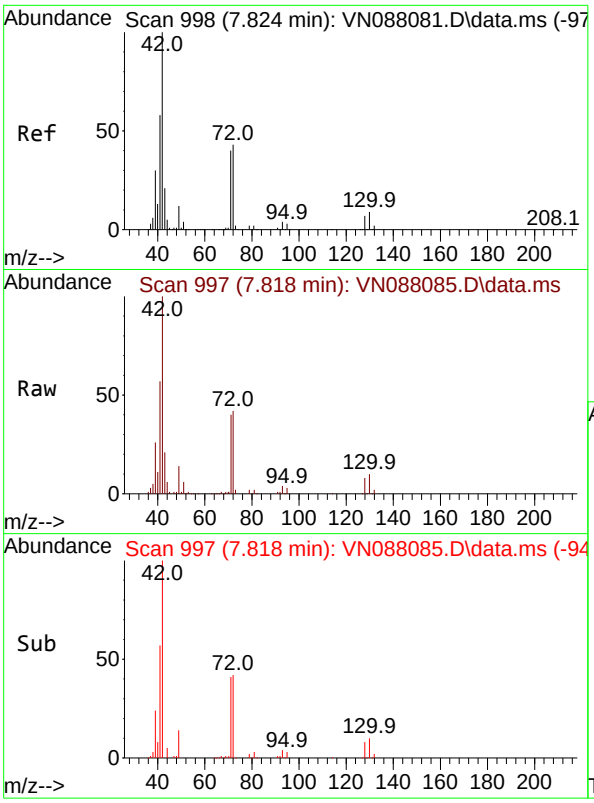


#28
Bromochloromethane
Concen: 50.544 ug/l
RT: 7.794 min Scan# 993
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 49 Resp: 202137

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.0
130	66.4	53.1	79.7

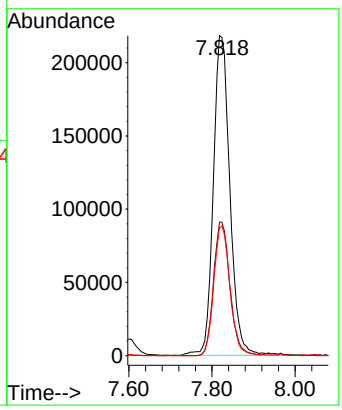




#29
Tetrahydrofuran
Concen: 245.497 ug/l
RT: 7.818 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 42 Resp: 60407

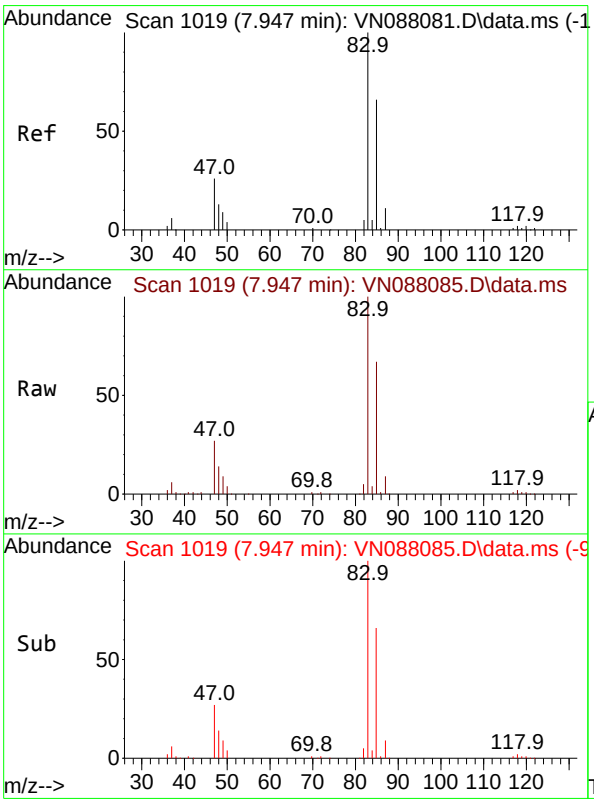
Ion	Ratio	Lower	Upper
42	100		
72	41.4	33.7	50.5
71	39.6	31.9	47.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

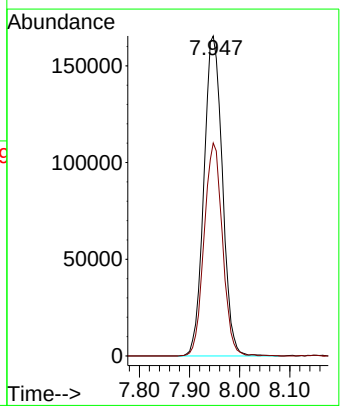
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

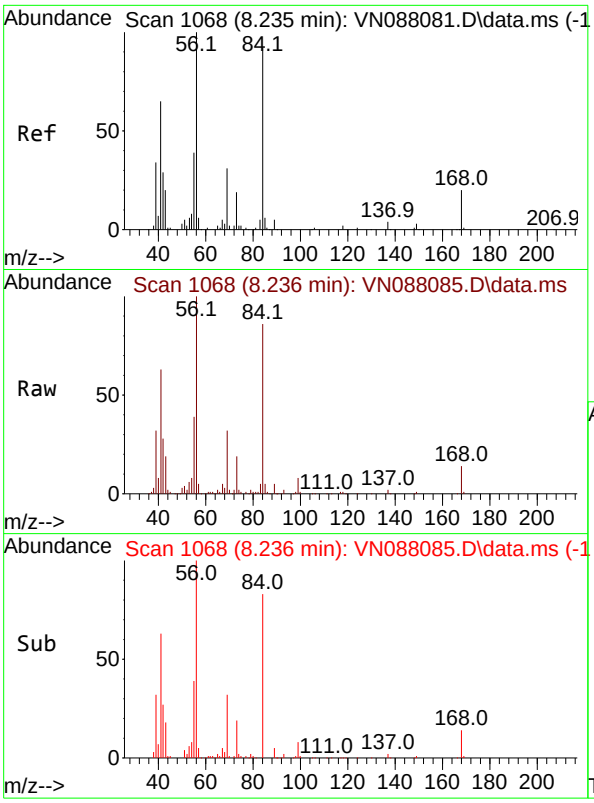


#30
Chloroform
Concen: 50.104 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 83 Resp: 423655

Ion	Ratio	Lower	Upper
83	100		
85	66.5	50.7	76.1

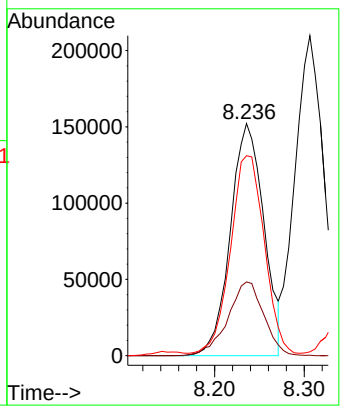




#31
Cyclohexane
Concen: 49.485 ug/l
RT: 8.236 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 56 Resp: 39502

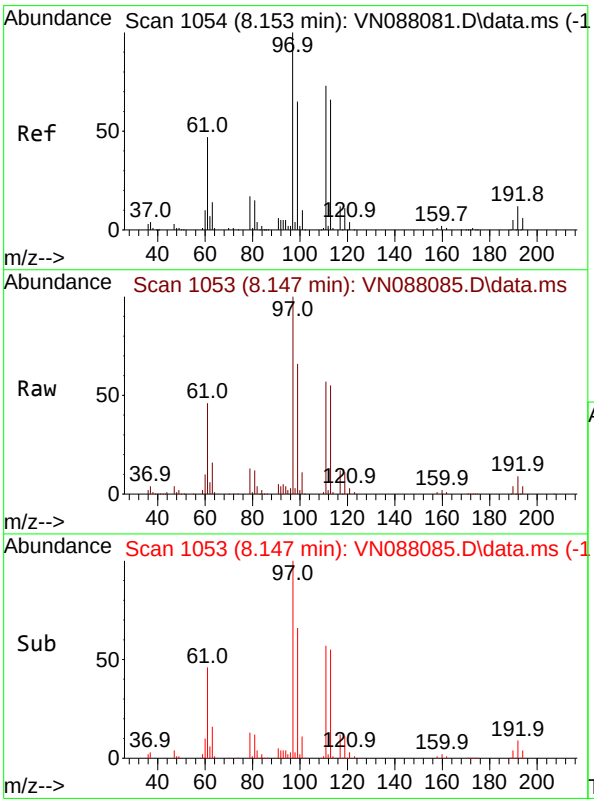
Ion	Ratio	Lower	Upper
56	100		
69	31.6	23.7	35.5
84	84.6	64.7	97.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

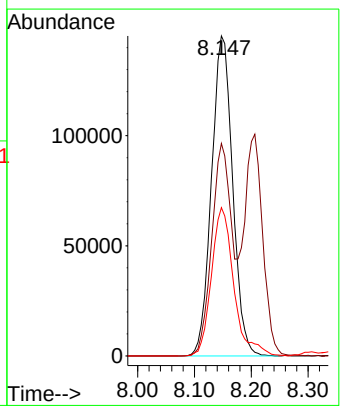
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

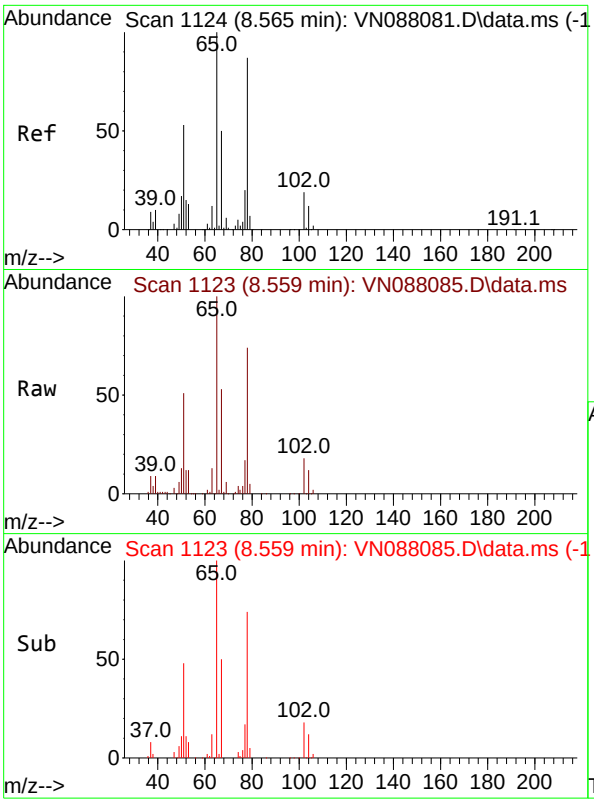


#32
1,1,1-Trichloroethane
Concen: 49.791 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 97 Resp: 374970

Ion	Ratio	Lower	Upper
97	100		
99	64.6	52.2	78.2
61	49.1	41.2	61.8

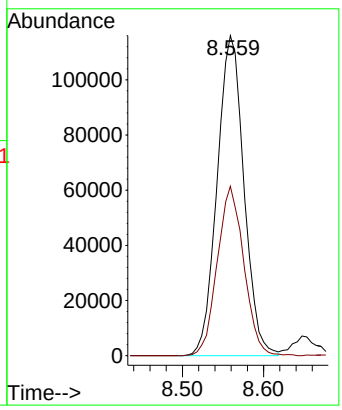




#33
1,2-Dichloroethane-d4
Concen: 46.699 ug/l
RT: 8.559 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 65 Resp: 26631

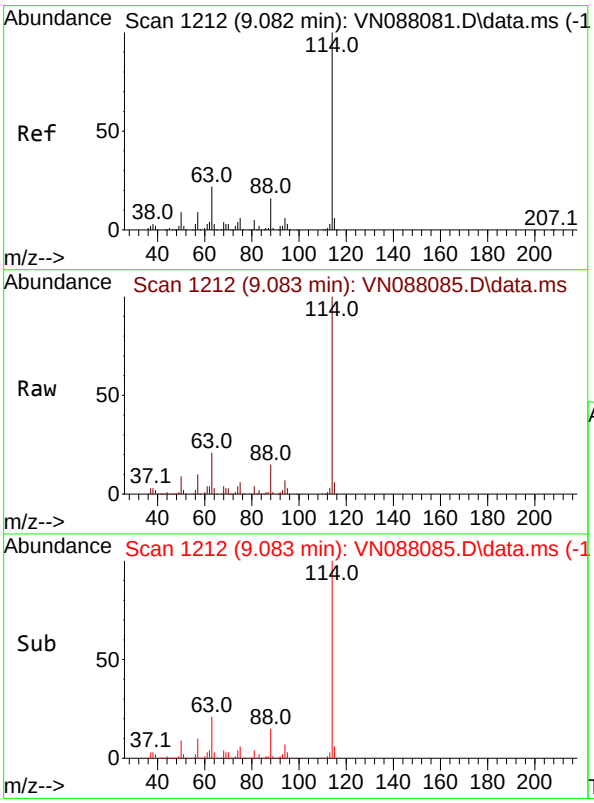
Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	100.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

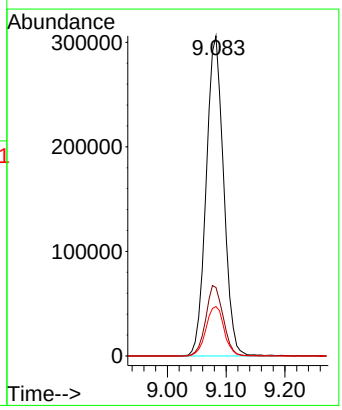
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

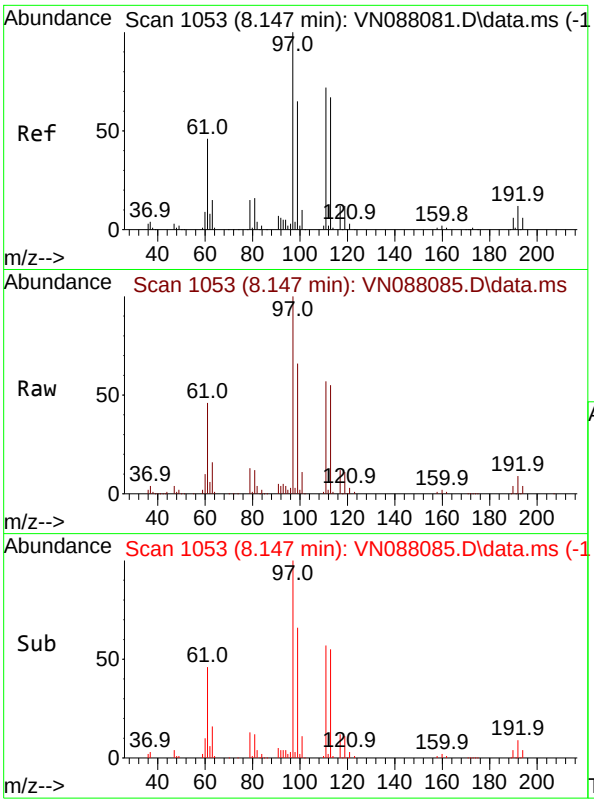


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:114 Resp: 629673

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	45.2
88	15.4	0.0	33.4

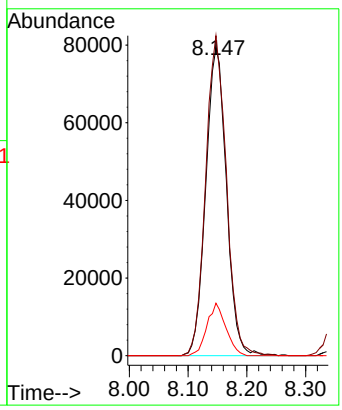




#35
Dibromofluoromethane
Concen: 45.865 ug/l
RT: 8.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:113 Resp: 19401

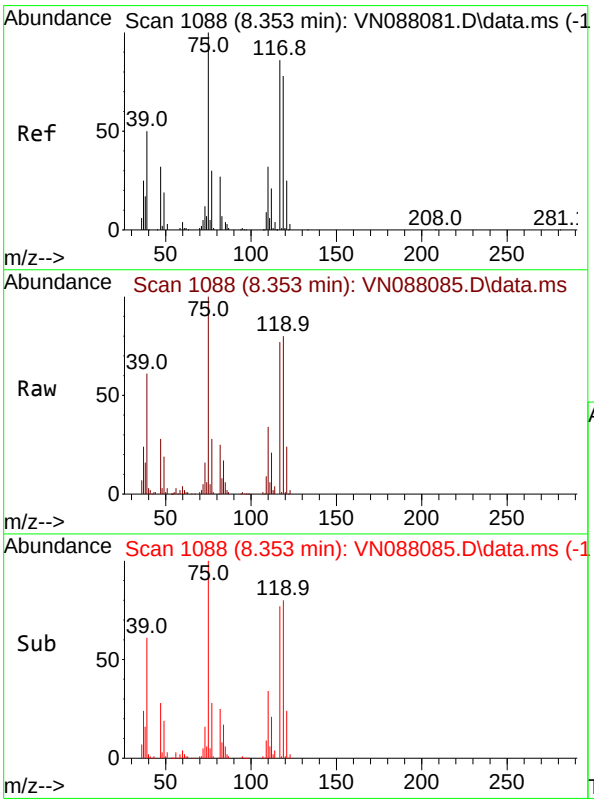
Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.8	124.2
192	15.7	12.8	19.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

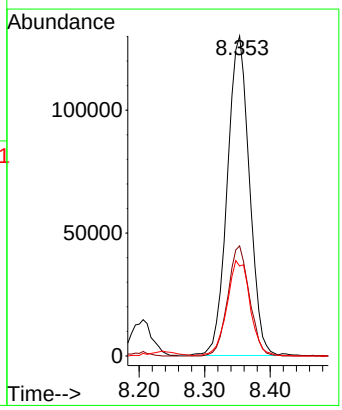
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

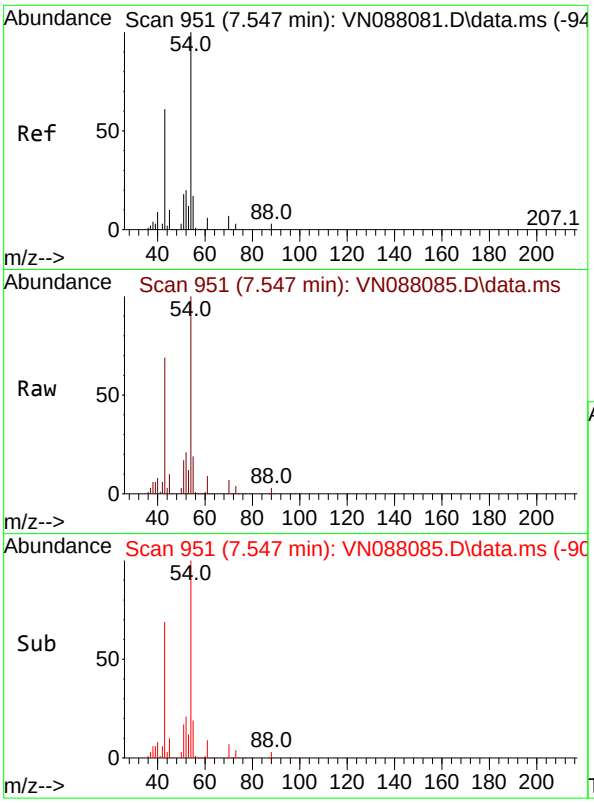


#36
1,1-Dichloropropene
Concen: 49.383 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 75 Resp: 305017

Ion	Ratio	Lower	Upper
75	100		
110	33.8	15.9	47.6
77	31.3	24.4	36.6





#37
Ethyl Acetate
Concen: 46.186 ug/l
RT: 7.547 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

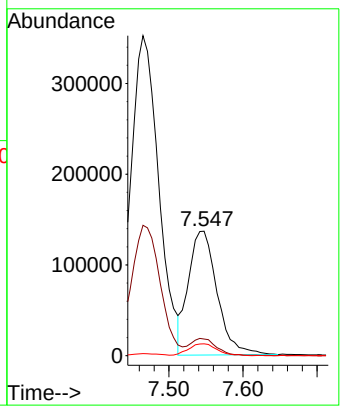
Tgt Ion: 43 Resp: 36813

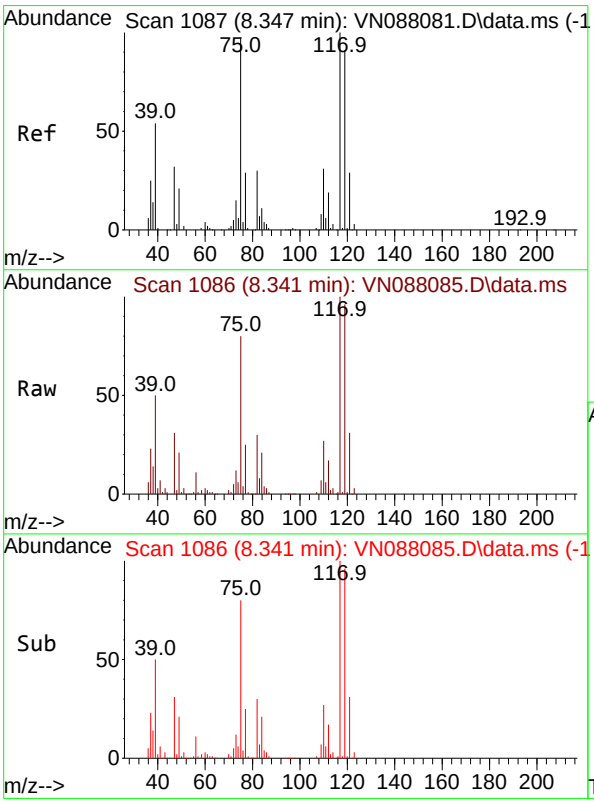
Ion	Ratio	Lower	Upper
43	100		
61	13.0	9.3	13.9
70	9.5	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

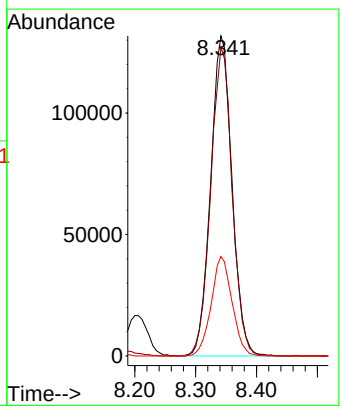


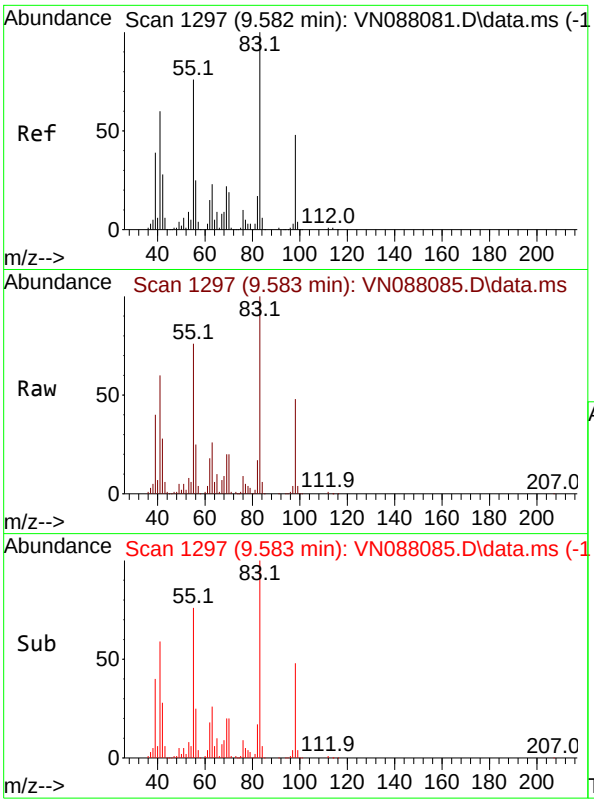


#38
Carbon Tetrachloride
Concen: 50.287 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:117 Resp: 320797

Ion	Ratio	Lower	Upper
117	100		
119	96.5	79.0	118.6
121	31.1	25.0	37.6





#39
Methylcyclohexane
Concen: 49.916 ug/l
RT: 9.583 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

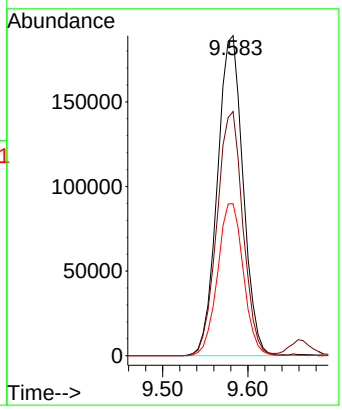
Tgt Ion: 83 Resp: 39629

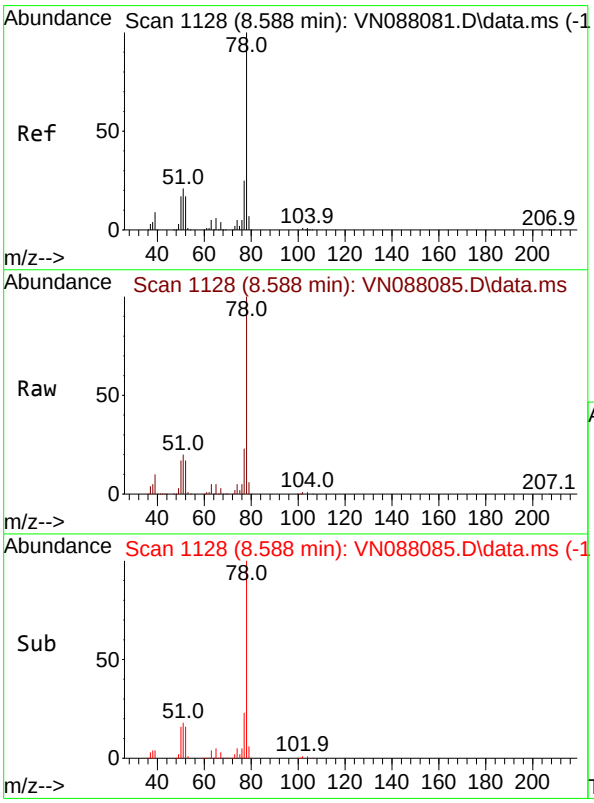
Ion	Ratio	Lower	Upper
83	100		
55	76.3	64.6	96.8
98	47.5	38.4	57.6

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

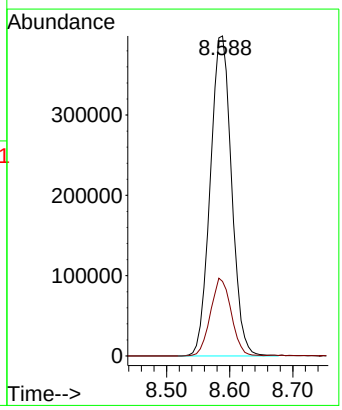


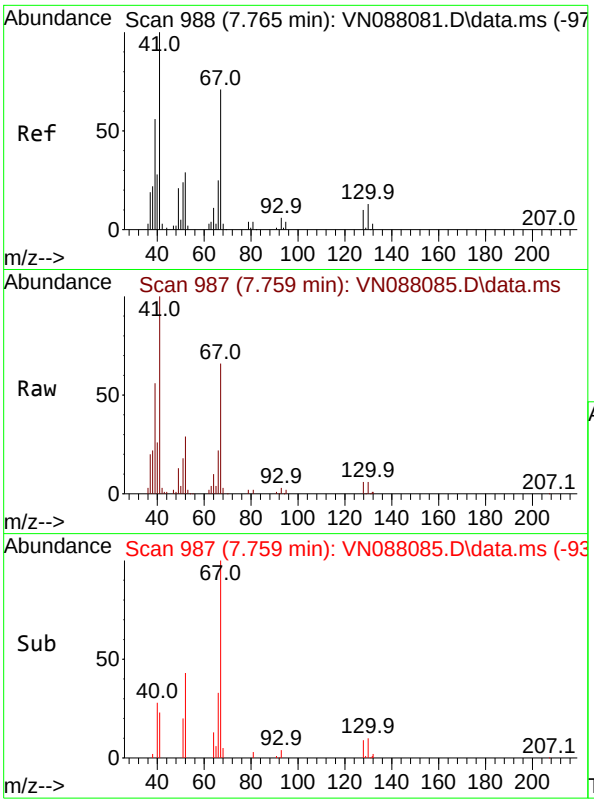


#40
Benzene
Concen: 49.611 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 78 Resp: 933204

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.7	29.5

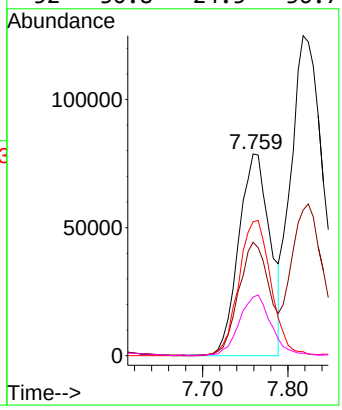




#41
Methacrylonitrile
Concen: 48.042 ug/l
RT: 7.759 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 41 Resp: 20154

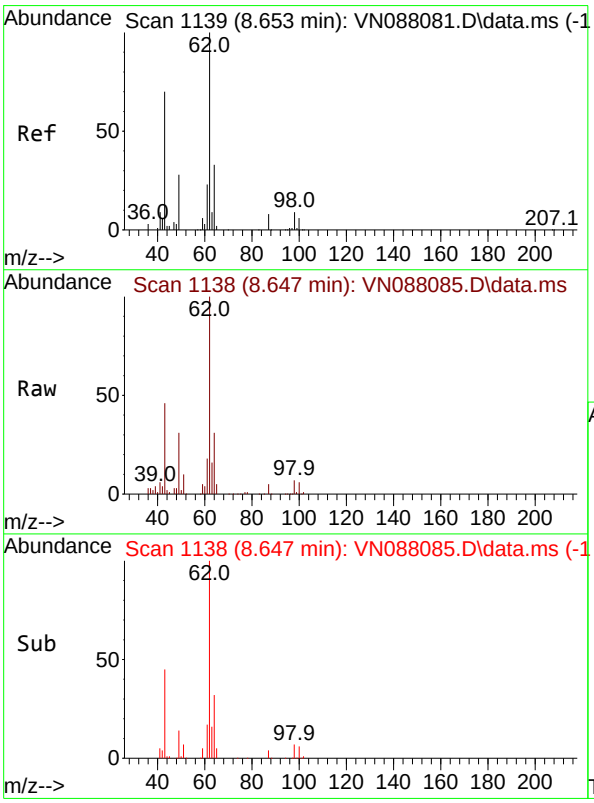
Ion	Ratio	Lower	Upper
41	100		
39	55.2	45.4	68.0
67	69.1	55.3	82.9
52	30.8	24.5	36.7



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

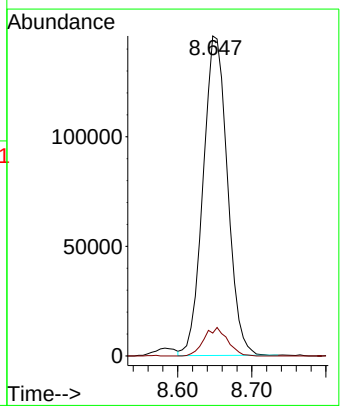
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

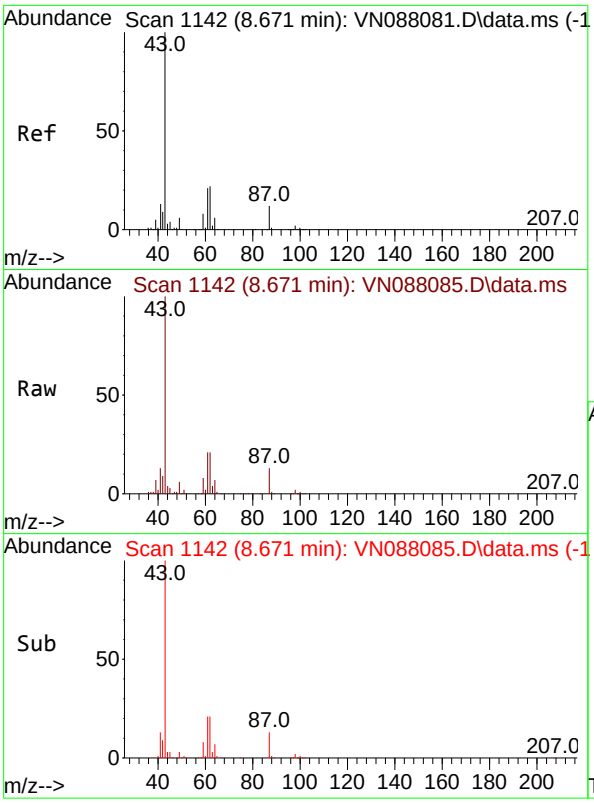


#42
1,2-Dichloroethane
Concen: 49.855 ug/l
RT: 8.647 min Scan# 1138
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 62 Resp: 333208

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.4

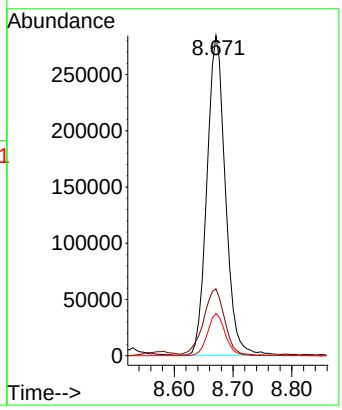




#43
Isopropyl Acetate
Concen: 50.434 ug/l
RT: 8.671 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 43 Resp: 61770

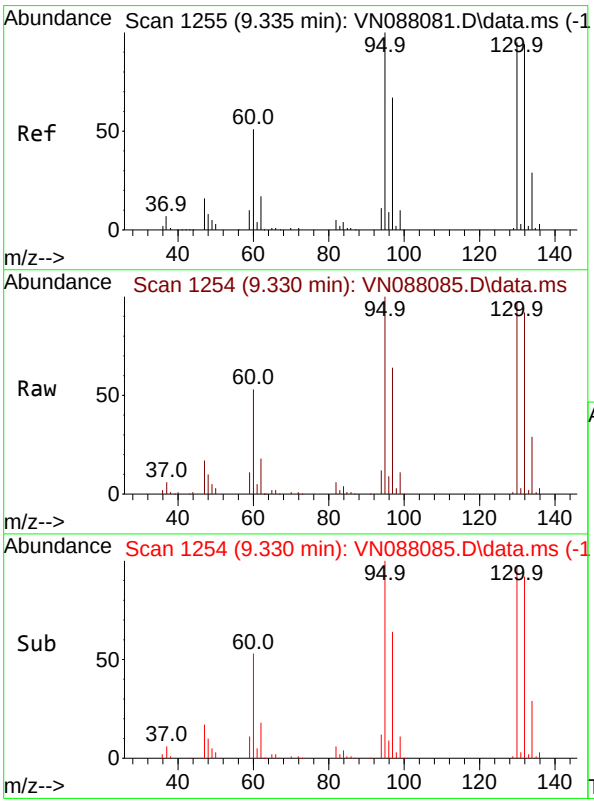
Ion	Ratio	Lower	Upper
43	100		
61	24.3	18.8	28.2
87	12.7	9.6	14.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

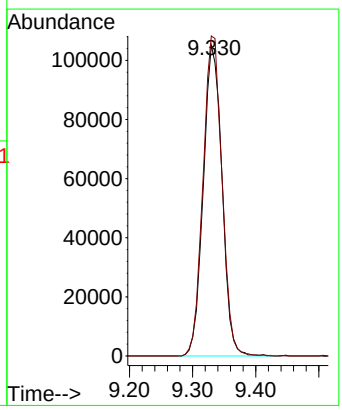
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

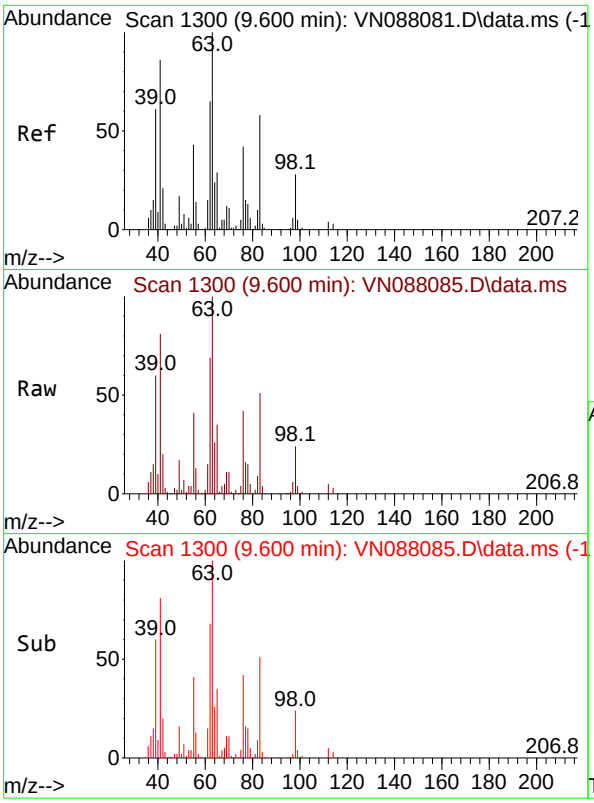


#44
Trichloroethene
Concen: 49.112 ug/l
RT: 9.330 min Scan# 1254
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:130 Resp: 215931

Ion	Ratio	Lower	Upper
130	100		
95	103.1	0.0	212.0

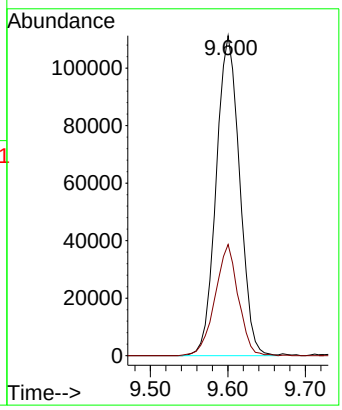




#45
1,2-Dichloropropane
Concen: 49.237 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 63 Resp: 23381

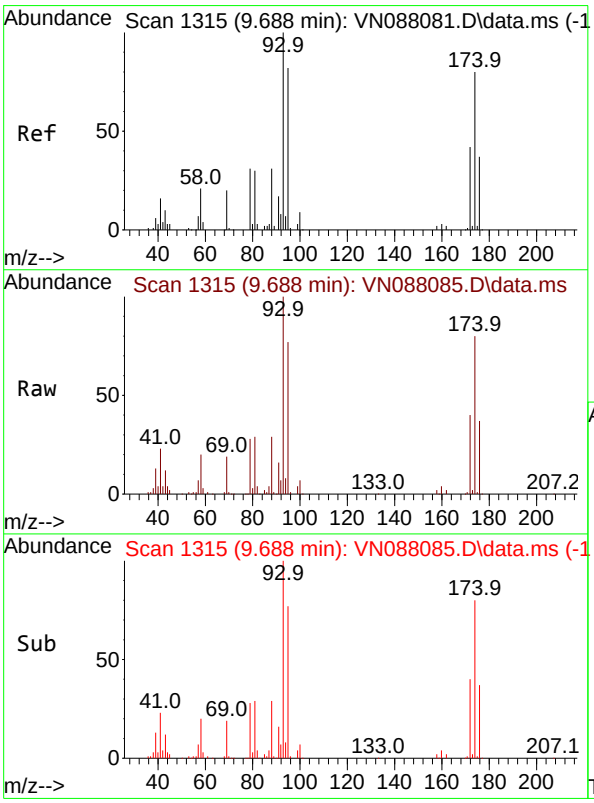
Ion	Ratio	Lower	Upper
63	100		
65	34.7	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

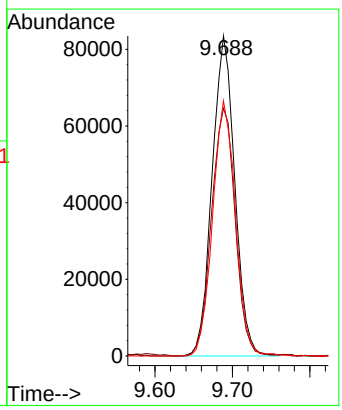
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

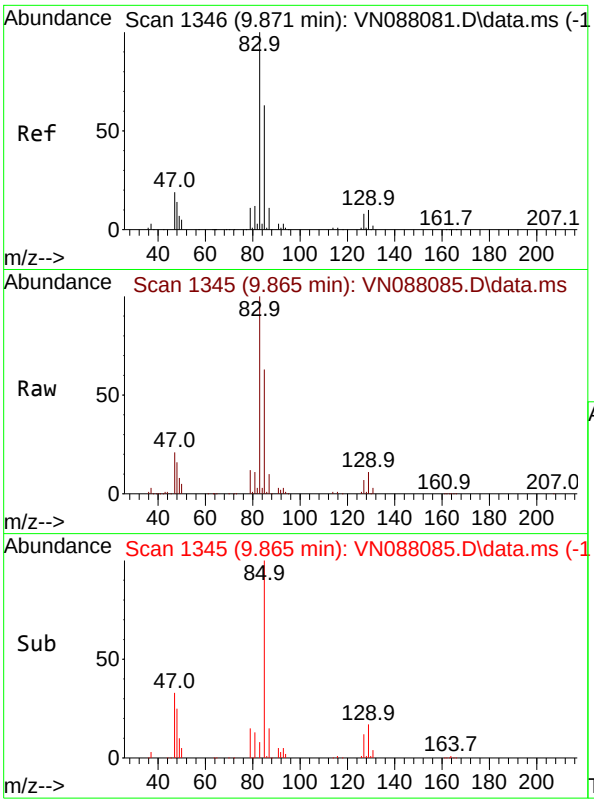


#46
Dibromomethane
Concen: 50.069 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 93 Resp: 169580

Ion	Ratio	Lower	Upper
93	100		
95	80.9	66.2	99.4
174	80.6	63.4	95.2

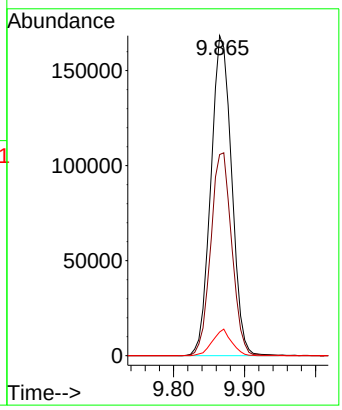




#47
Bromodichloromethane
Concen: 50.420 ug/l
RT: 9.865 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 83 Resp: 34189

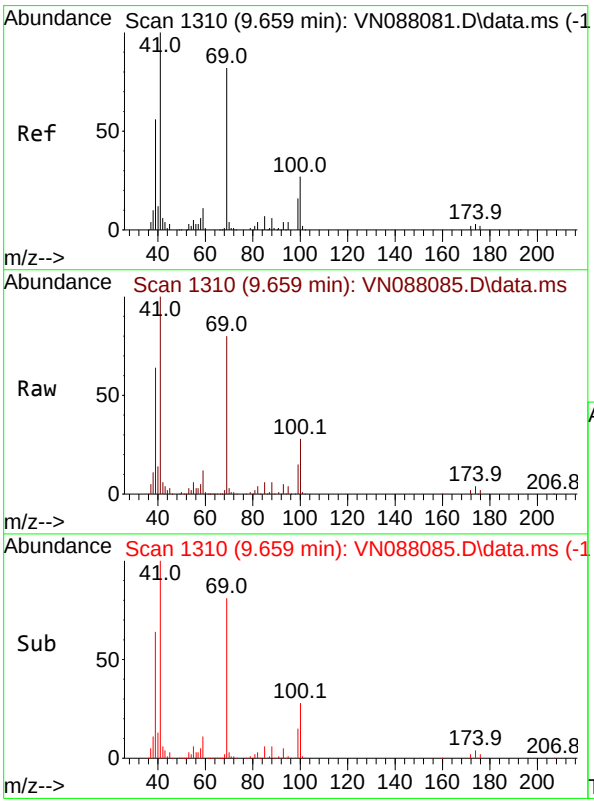
Ion	Ratio	Lower	Upper
83	100		
85	62.8	52.5	78.7
127	7.4	5.8	8.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

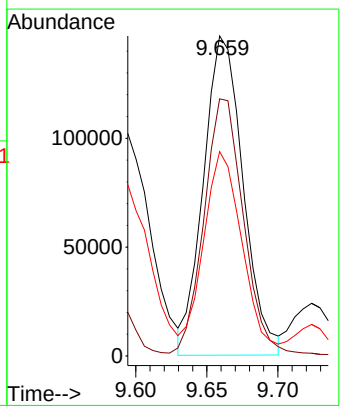
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

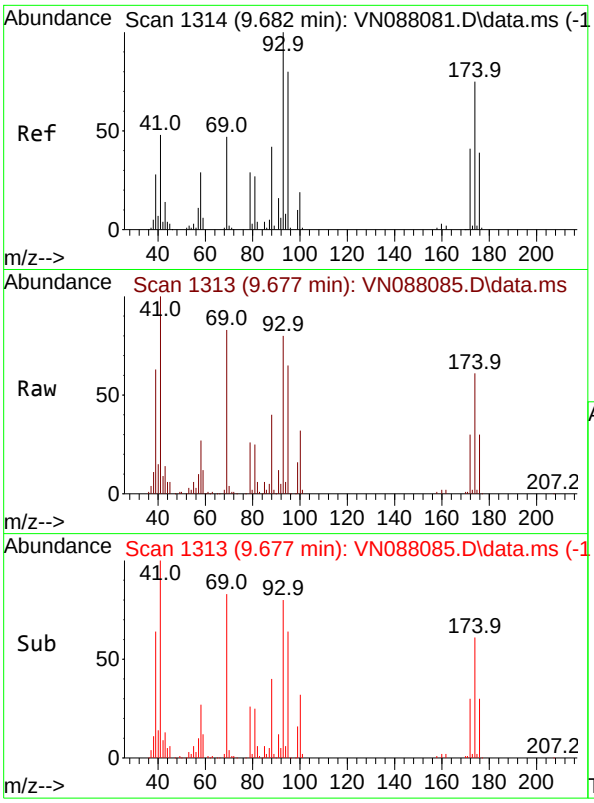


#48
Methyl methacrylate
Concen: 50.456 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 41 Resp: 285311

Ion	Ratio	Lower	Upper
41	100		
69	80.6	62.7	94.1
39	62.9	52.9	79.3

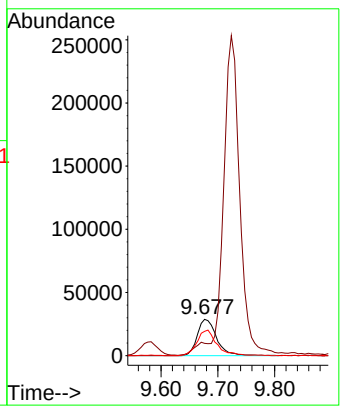




#49
1,4-Dioxane
Concen: 967.465 ug/l
RT: 9.677 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 88 Resp: 6804

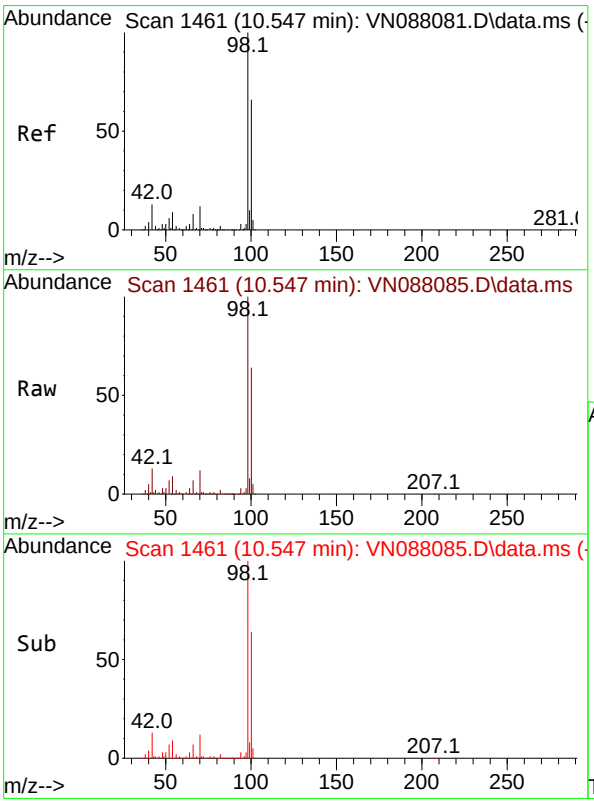
Ion	Ratio	Lower	Upper
88	100		
43	26.3	0.0	0.0
58	71.6	57.9	86.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

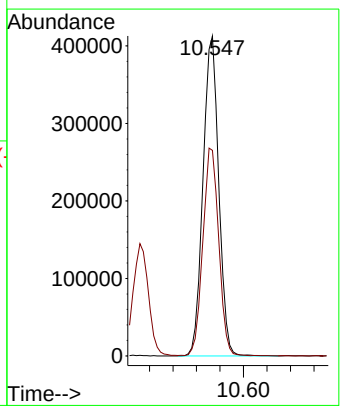
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

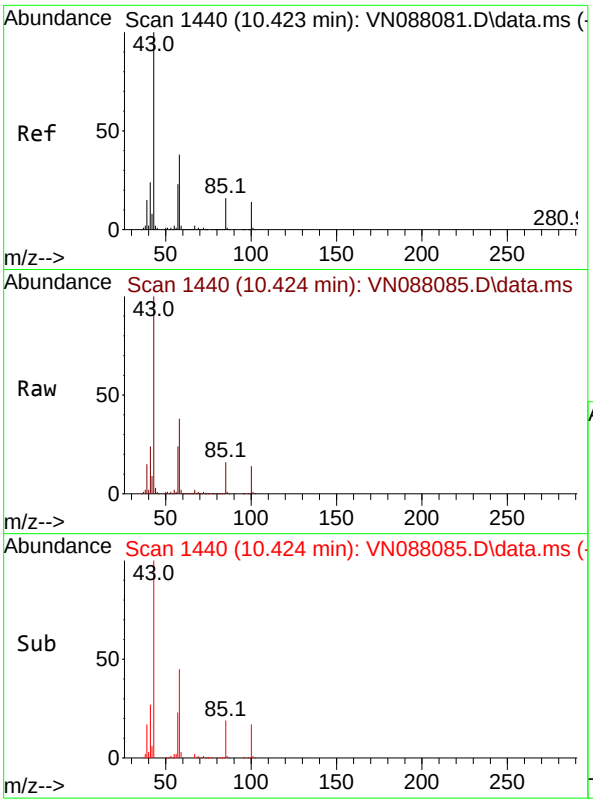


#50
Toluene-d8
Concen: 46.842 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 98 Resp: 763509

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.8	79.2

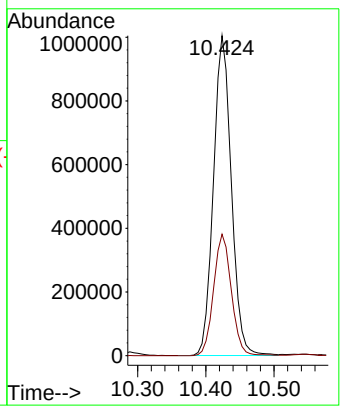




#51
4-Methyl-2-Pentanone
Concen: 253.315 ug/l
RT: 10.424 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 43 Resp: 183545

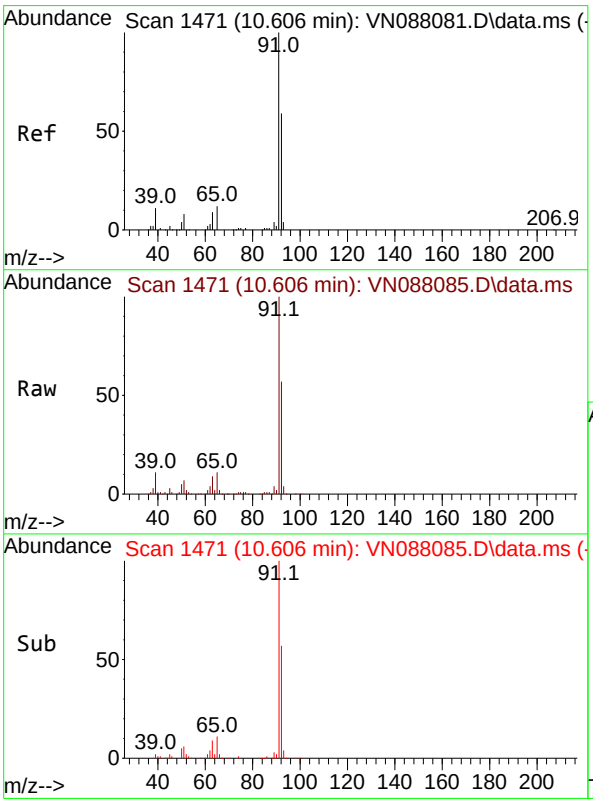
Ion	Ratio	Lower	Upper
43	100		
58	37.8	29.6	44.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

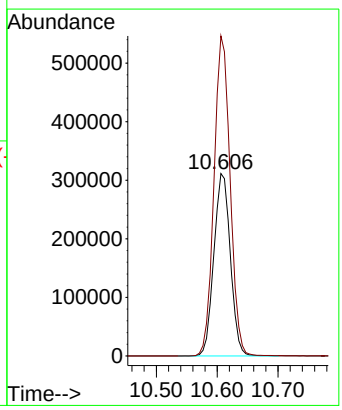
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

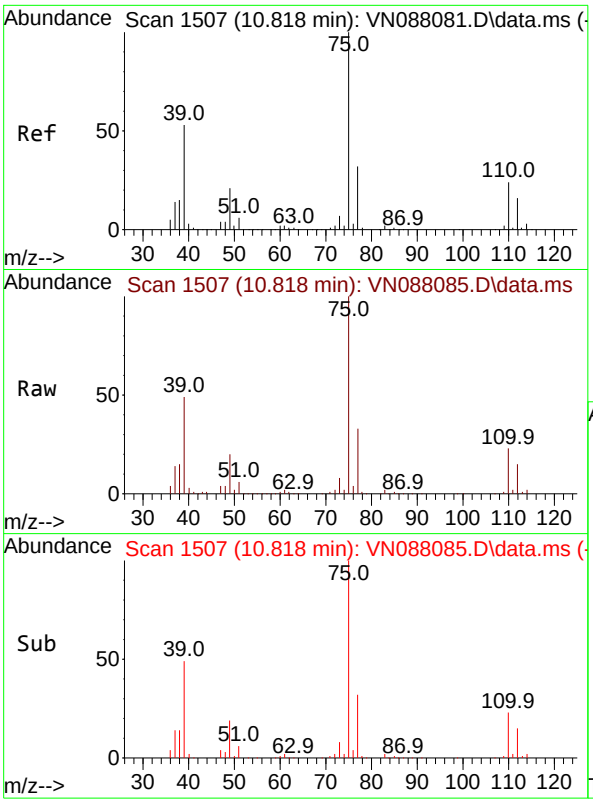


#52
Toluene
Concen: 50.407 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 92 Resp: 584587

Ion	Ratio	Lower	Upper
92	100		
91	172.2	140.4	210.6

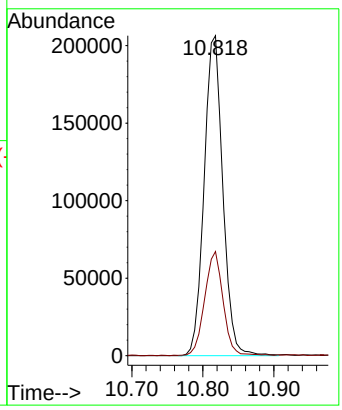




#53
t-1,3-Dichloropropene
Concen: 52.416 ug/l
RT: 10.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 75 Resp: 37829

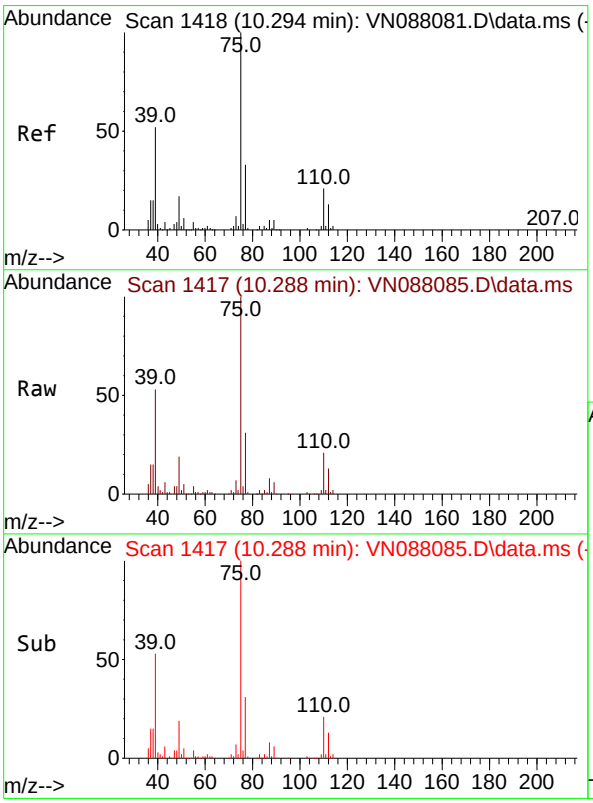
Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.2	37.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

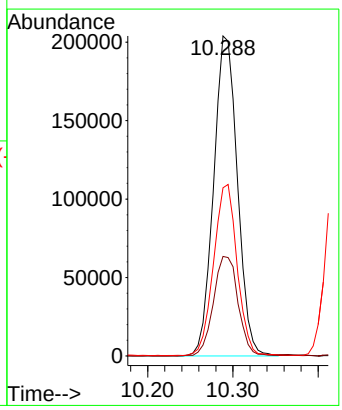
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

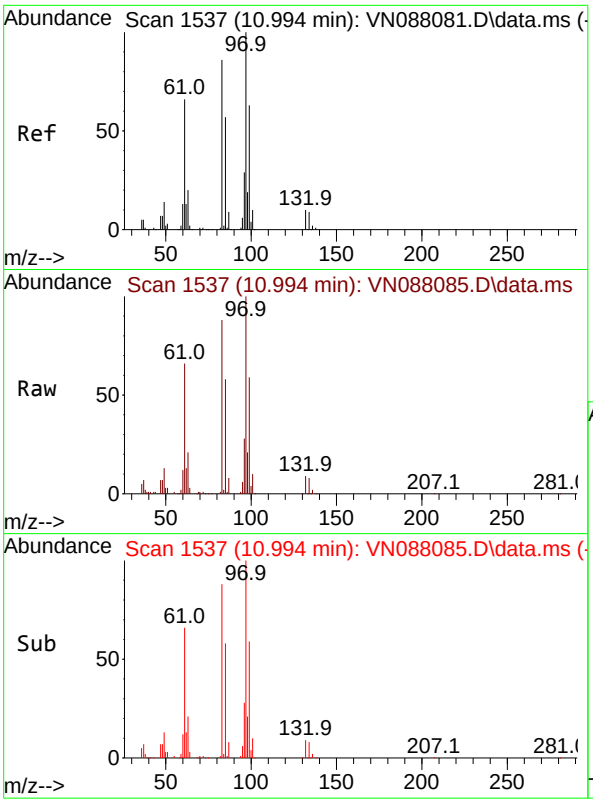


#54
cis-1,3-Dichloropropene
Concen: 51.721 ug/l
RT: 10.288 min Scan# 1417
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 75 Resp: 396097

Ion	Ratio	Lower	Upper
75	100		
77	31.1	24.6	37.0
39	52.4	45.2	67.8

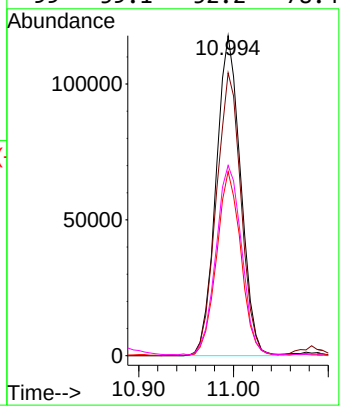




#55
1,1,2-Trichloroethane
Concen: 48.370 ug/l
RT: 10.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 97 Resp: 21282

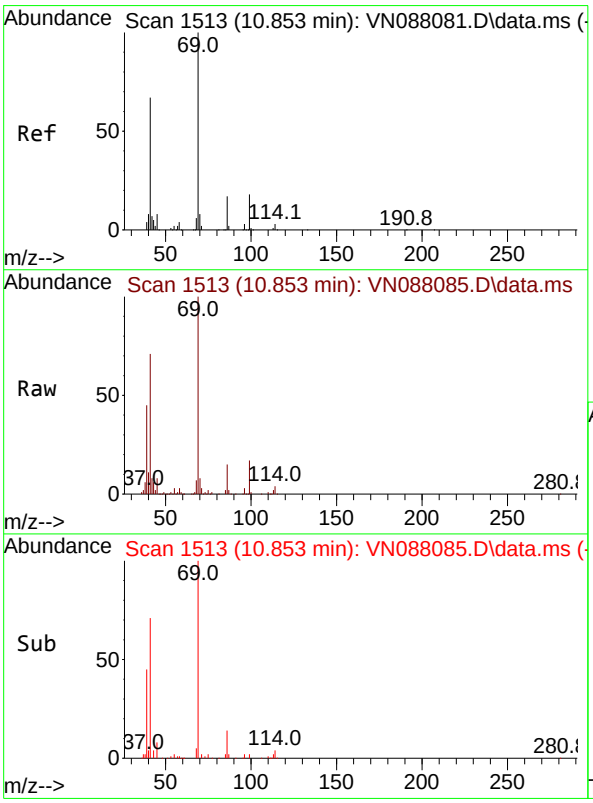
Ion	Ratio	Lower	Upper
97	100		
83	88.4	68.2	102.4
85	57.4	45.5	68.3
99	59.1	52.2	78.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

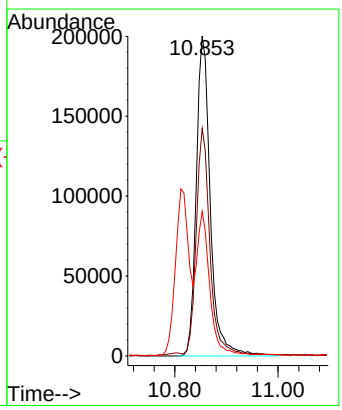
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

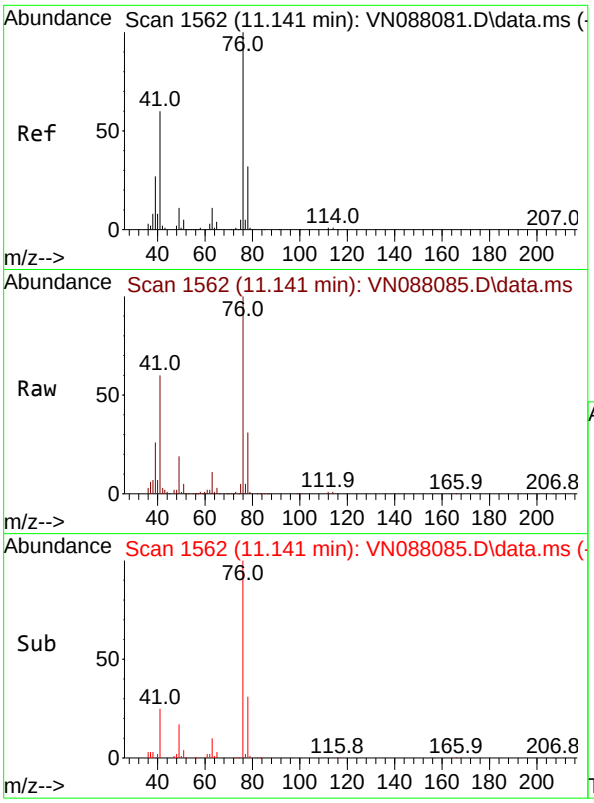


#56
Ethyl methacrylate
Concen: 54.214 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 69 Resp: 377487

Ion	Ratio	Lower	Upper
69	100		
41	67.5	56.5	84.7
39	40.5	34.2	51.4

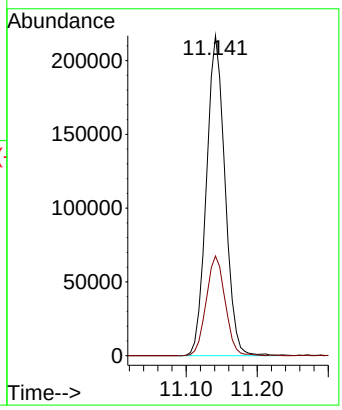




#57
1,3-Dichloropropane
Concen: 50.877 ug/l
RT: 11.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 76 Resp: 39346

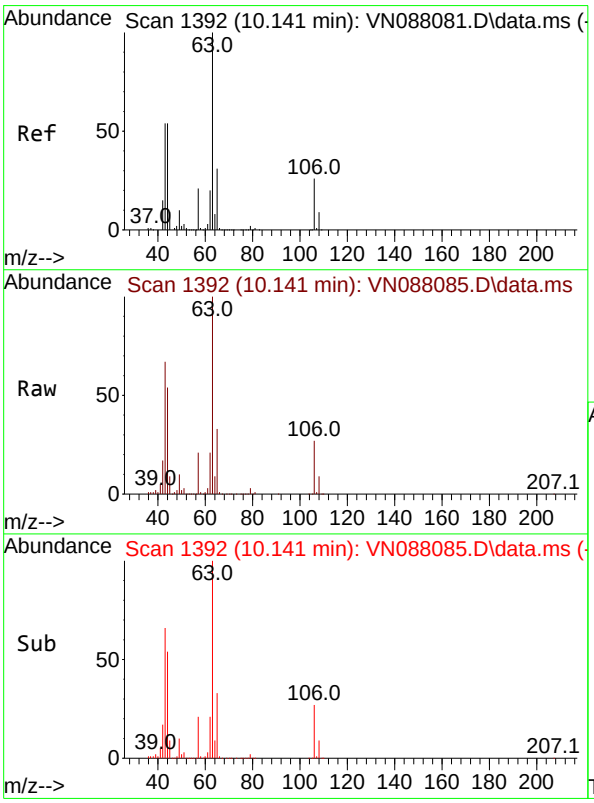
Ion	Ratio	Lower	Upper
76	100		
78	31.8	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

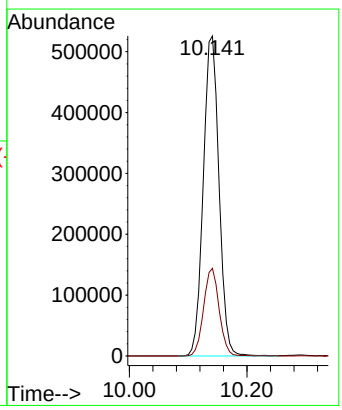
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

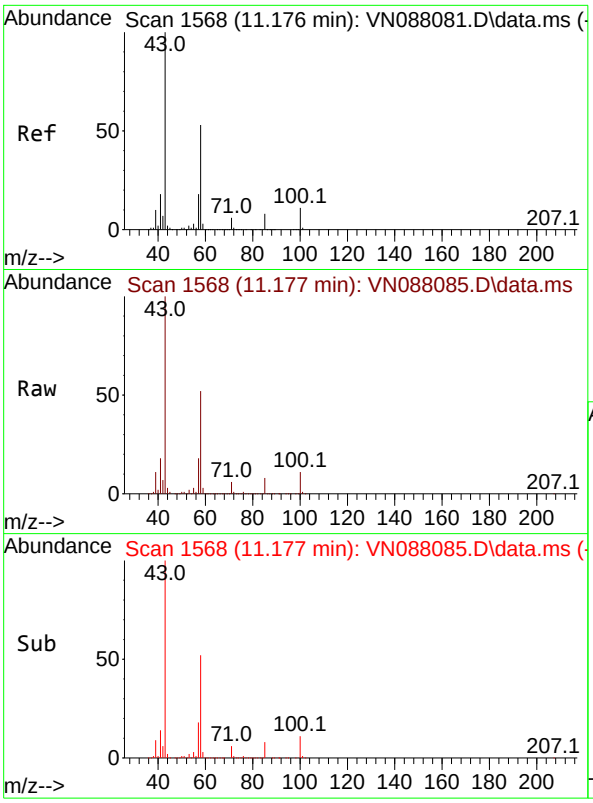


#58
2-Chloroethyl Vinyl ether
Concen: 268.651 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 63 Resp: 973004

Ion	Ratio	Lower	Upper
63	100		
106	27.0	21.1	31.7

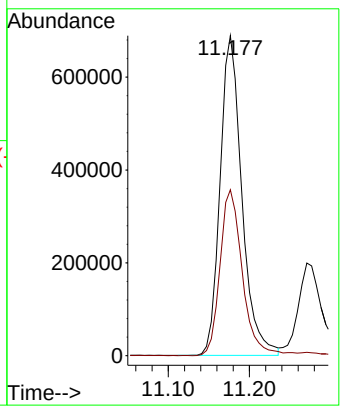




#59
2-Hexanone
Concen: 267.268 ug/l
RT: 11.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 43 Resp: 128466

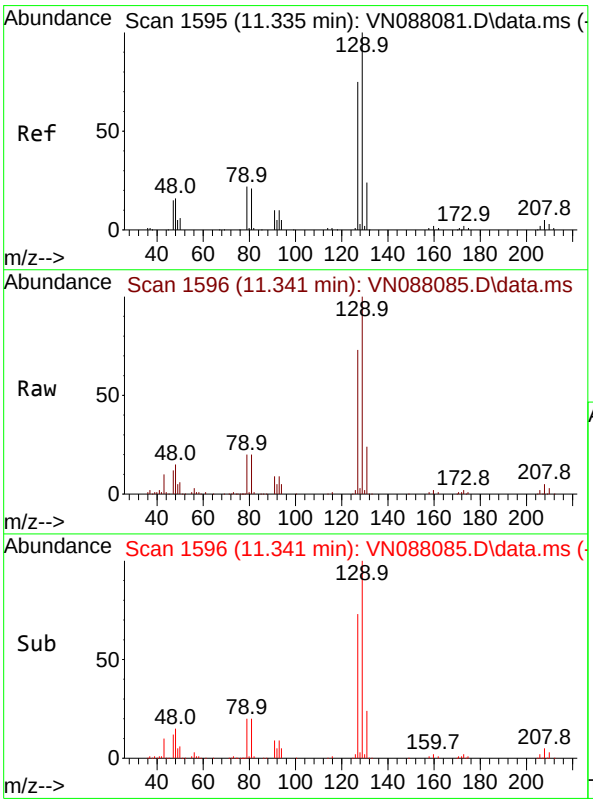
Ion	Ratio	Lower	Upper
43	100		
58	53.5	25.9	77.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

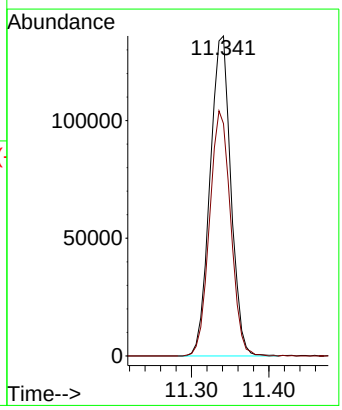
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

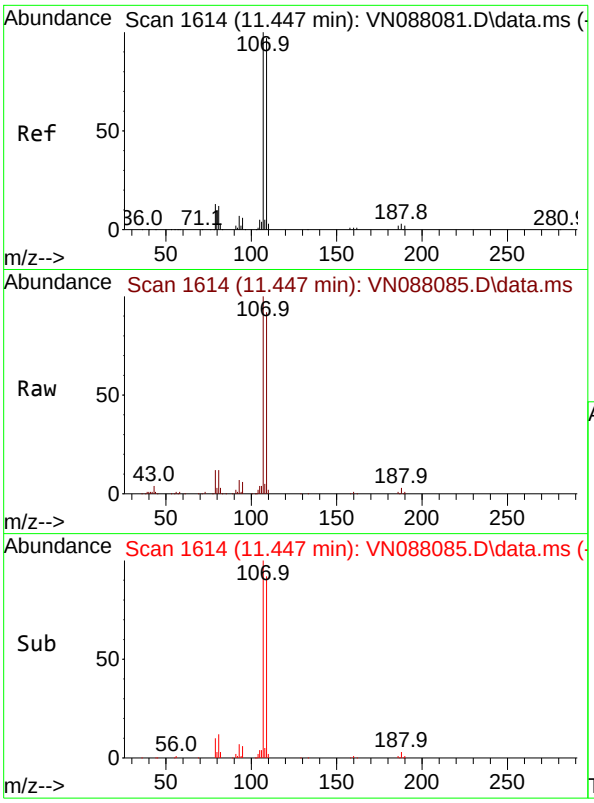


#60
Dibromochloromethane
Concen: 50.751 ug/l
RT: 11.341 min Scan# 1596
Delta R.T. 0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:129 Resp: 253809

Ion	Ratio	Lower	Upper
129	100		
127	77.6	39.1	117.3

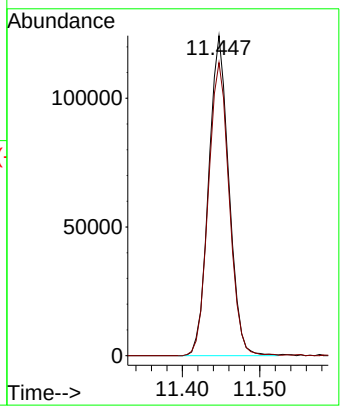




#61
1,2-Dibromoethane
Concen: 49.976 ug/l
RT: 11.447 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:107 Resp: 22630

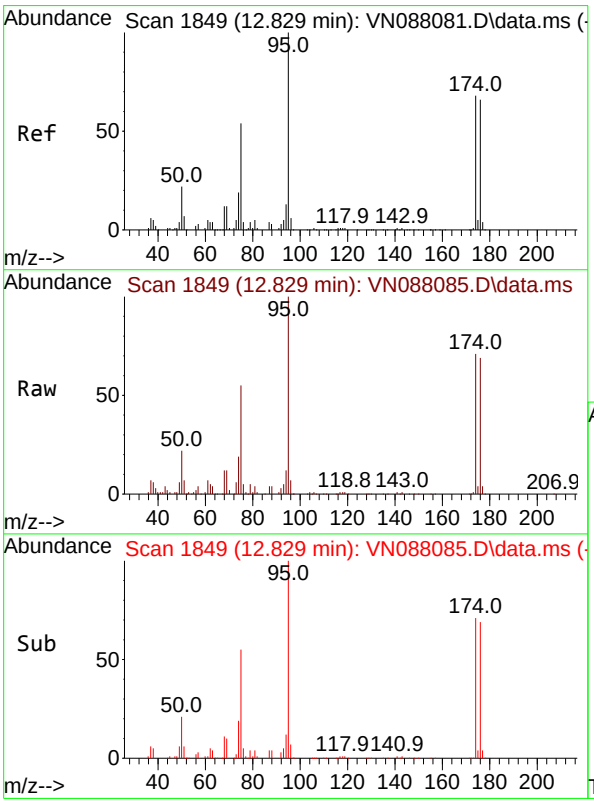
Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.7	112.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

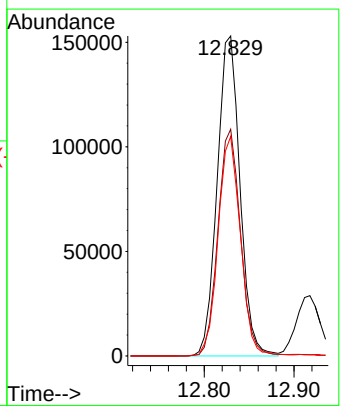
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

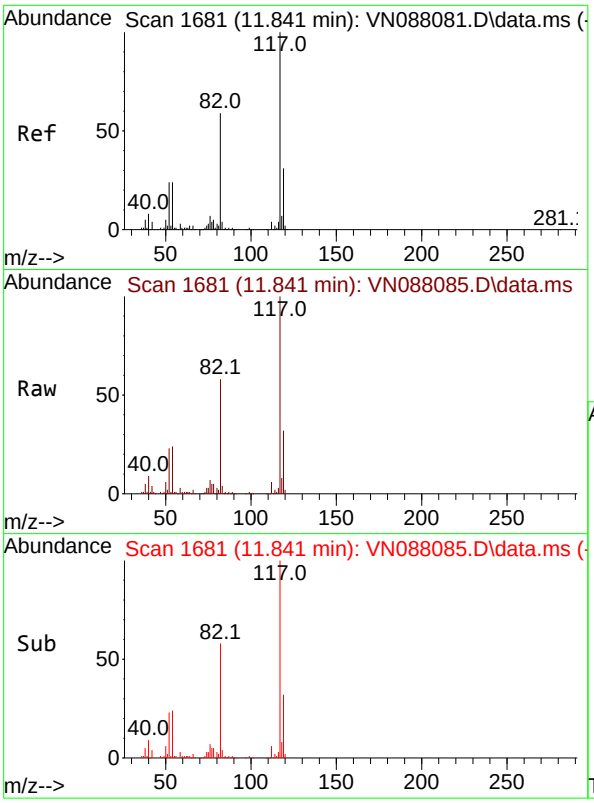


#62
4-Bromofluorobenzene
Concen: 47.012 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 95 Resp: 270623

Ion	Ratio	Lower	Upper
95	100		
174	70.1	0.0	138.4
176	67.1	0.0	132.6

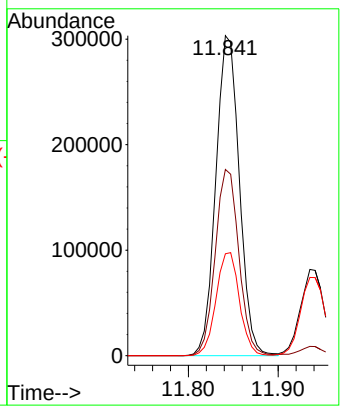




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:117 Resp: 55296

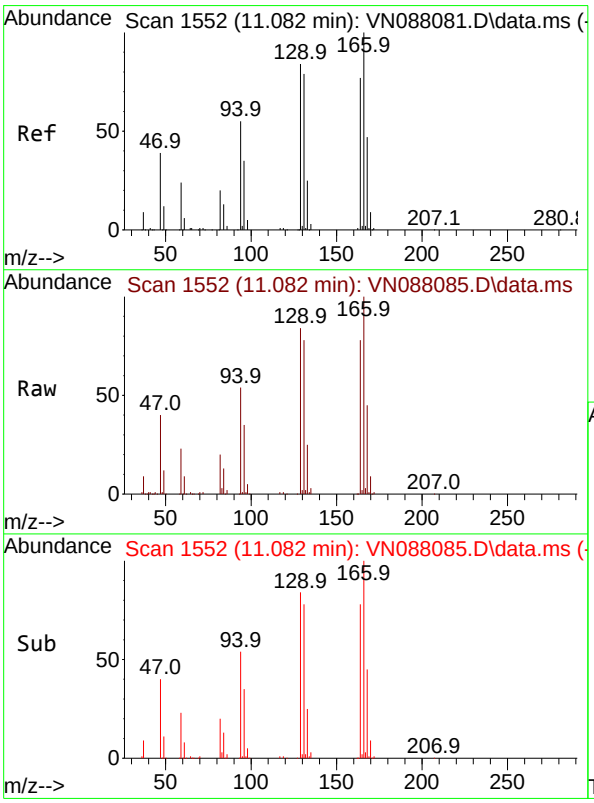
Ion	Ratio	Lower	Upper
117	100		
82	58.2	47.4	71.2
119	31.9	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

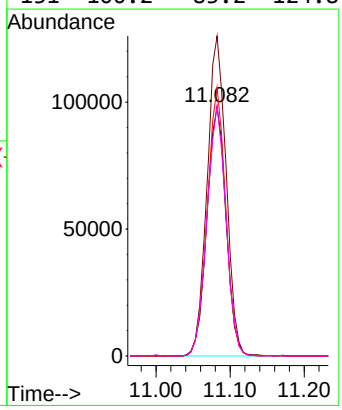
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

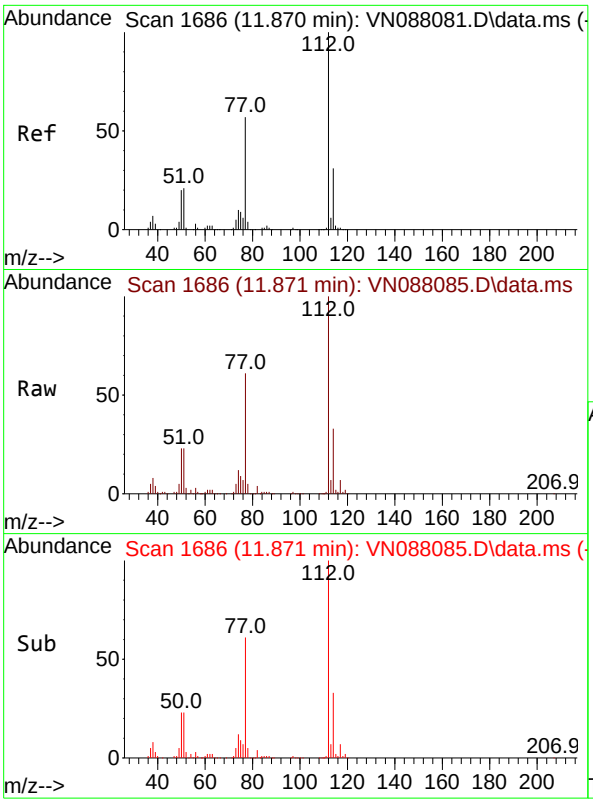


#64
Tetrachloroethene
Concen: 48.214 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:164 Resp: 175856

Ion	Ratio	Lower	Upper
164	100		
166	128.3	97.7	146.5
129	107.7	85.9	128.9
131	100.2	83.2	124.8

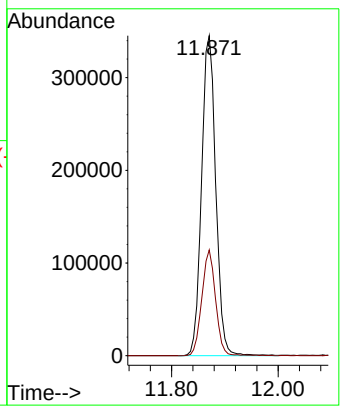




#65
Chlorobenzene
Concen: 50.798 ug/l
RT: 11.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:112 Resp: 63782

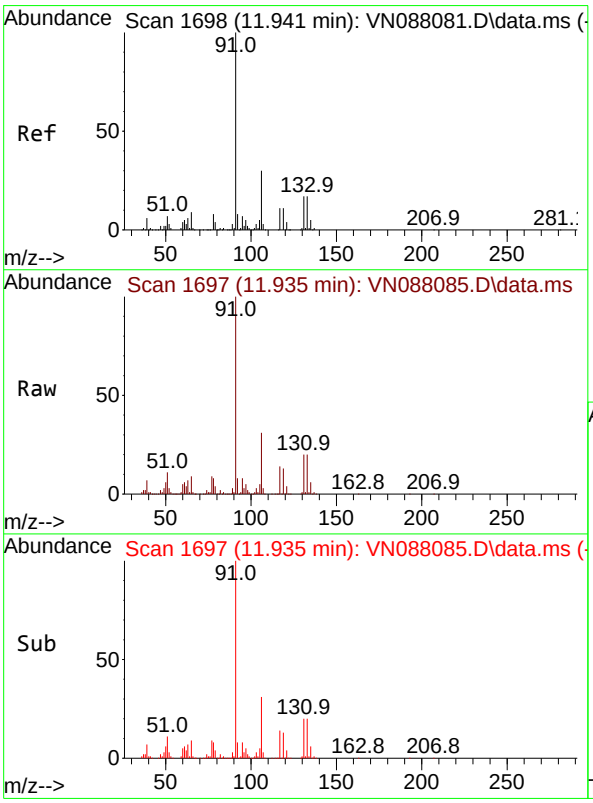
Ion	Ratio	Lower	Upper
112	100		
114	33.1	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

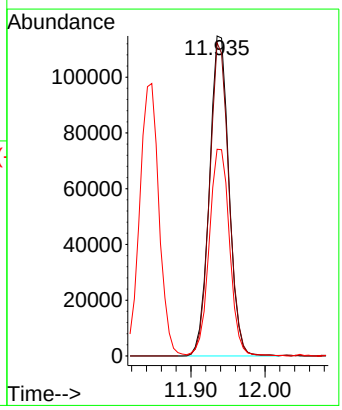
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

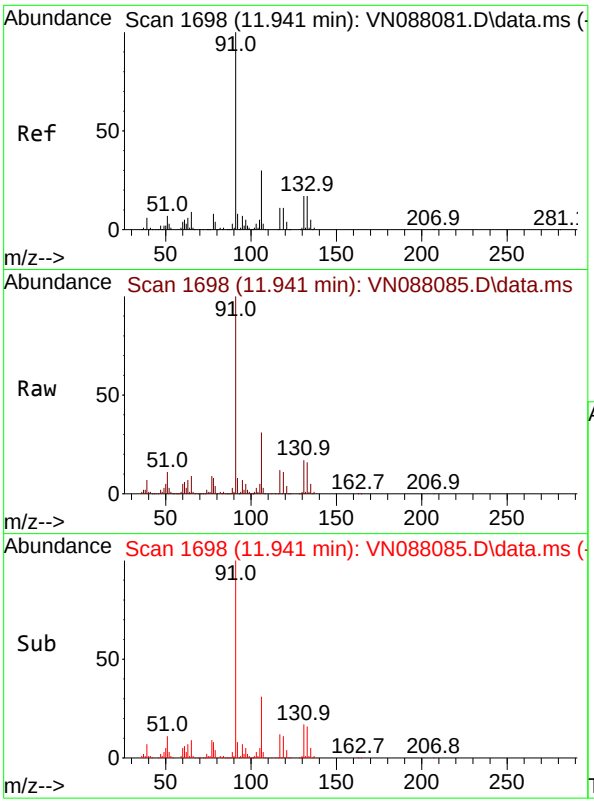


#66
1,1,1,2-Tetrachloroethane
Concen: 51.047 ug/l
RT: 11.935 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:131 Resp: 209987

Ion	Ratio	Lower	Upper
131	100		
133	96.7	48.0	144.0
119	67.5	32.6	97.7

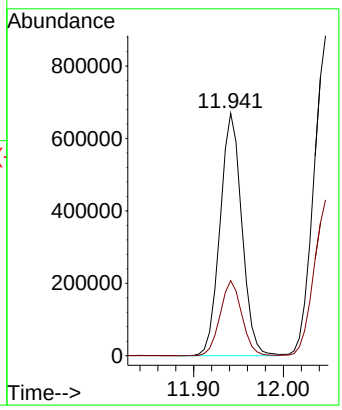




#67
Ethyl Benzene
Concen: 51.208 ug/l
RT: 11.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 91 Resp: 112861

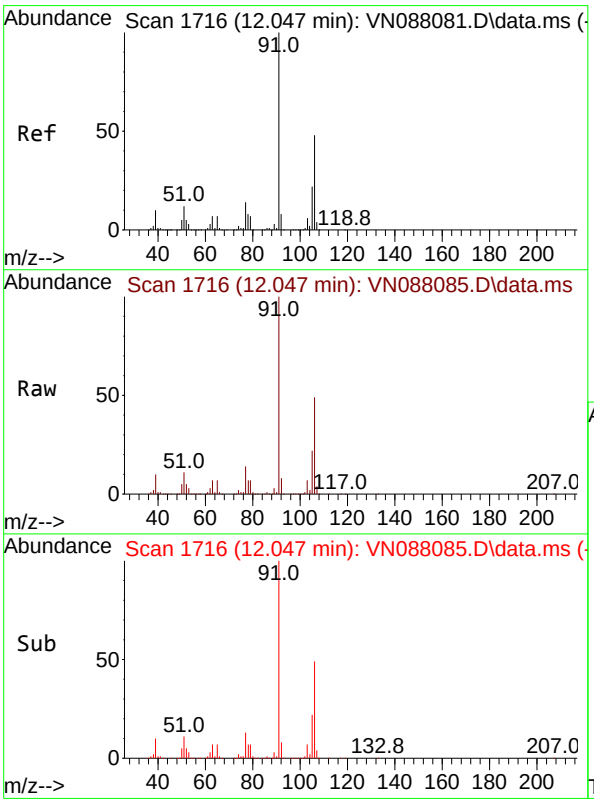
Ion	Ratio	Lower	Upper
91	100		
106	30.9	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

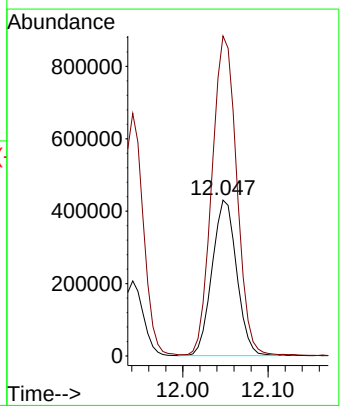
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

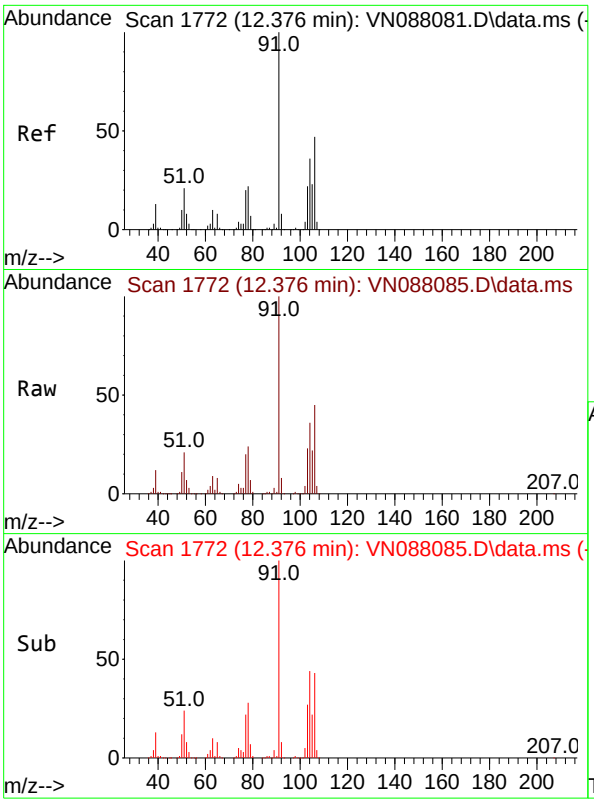


#68
m/p-Xylenes
Concen: 104.109 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:106 Resp: 859721

Ion	Ratio	Lower	Upper
106	100		
91	208.7	169.3	253.9

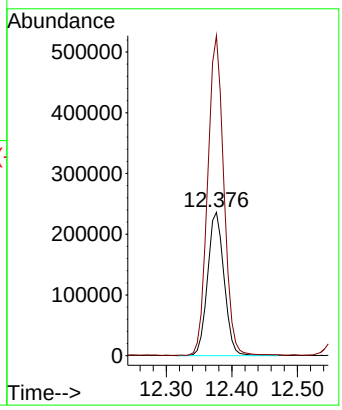




#69
o-Xylene
Concen: 52.899 ug/l
RT: 12.376 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:106 Resp: 41410

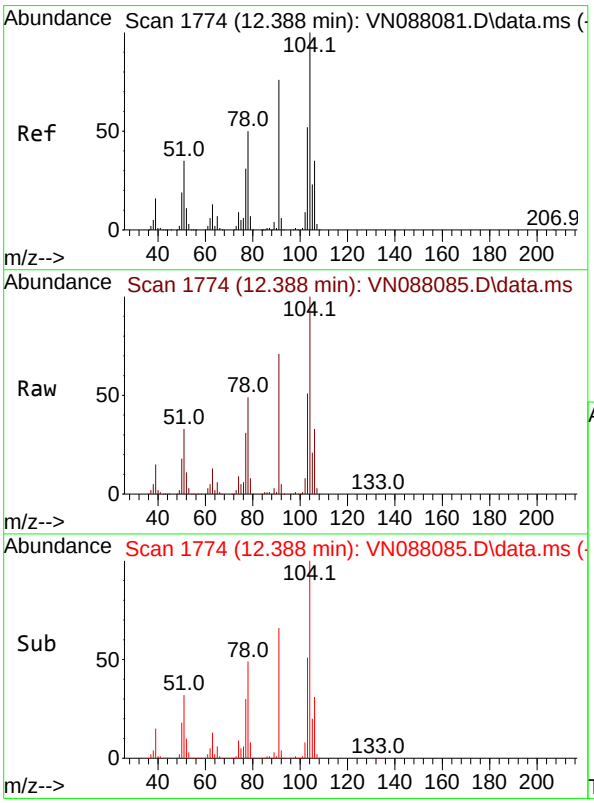
Ion	Ratio	Lower	Upper
106	100		
91	218.3	111.4	334.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

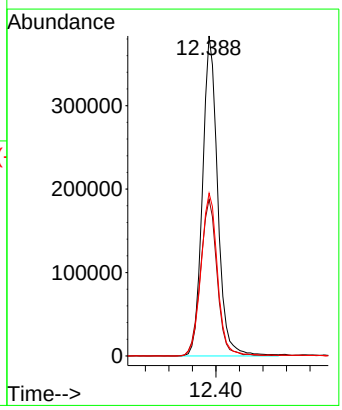
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

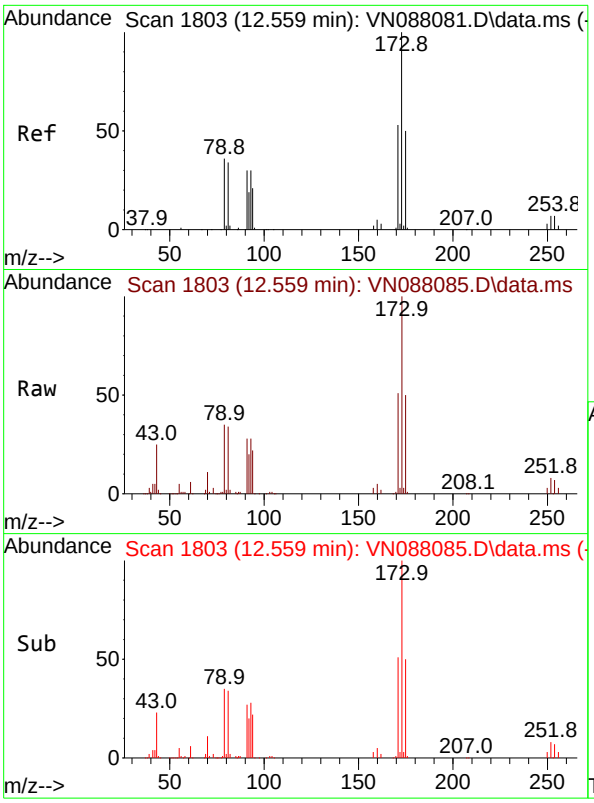


#70
Styrene
Concen: 54.133 ug/l
RT: 12.388 min Scan# 1774
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:104 Resp: 691022

Ion	Ratio	Lower	Upper
104	100		
78	53.3	42.2	63.2
103	55.2	43.4	65.2

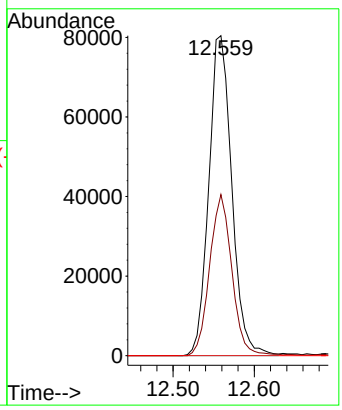




#71
Bromoform
Concen: 51.590 ug/l
RT: 12.559 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:173 Resp: 15837

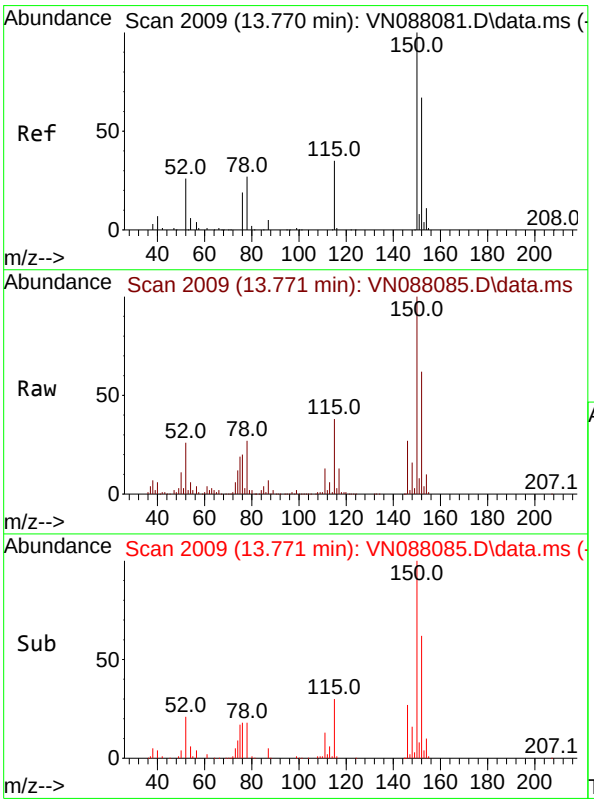
Ion	Ratio	Lower	Upper
173	100		
175	48.6	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

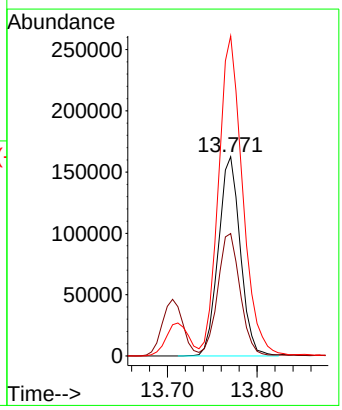
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

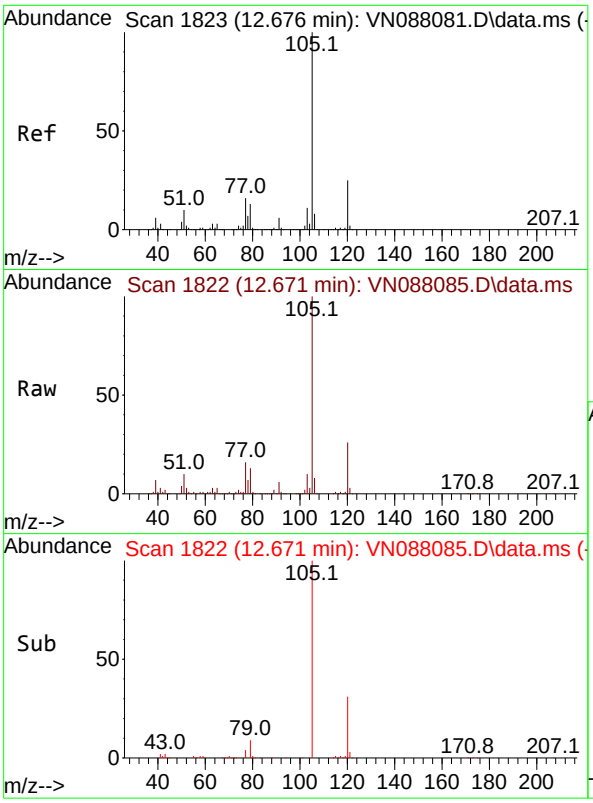


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:152 Resp: 275365

Ion	Ratio	Lower	Upper
152	100		
115	62.7	32.3	96.8
150	175.0	0.0	351.0

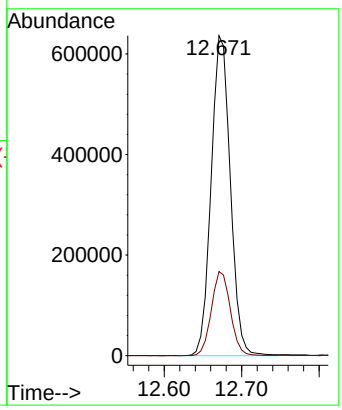




#73
Isopropylbenzene
Concen: 51.590 ug/l
RT: 12.671 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:105 Resp: 109568

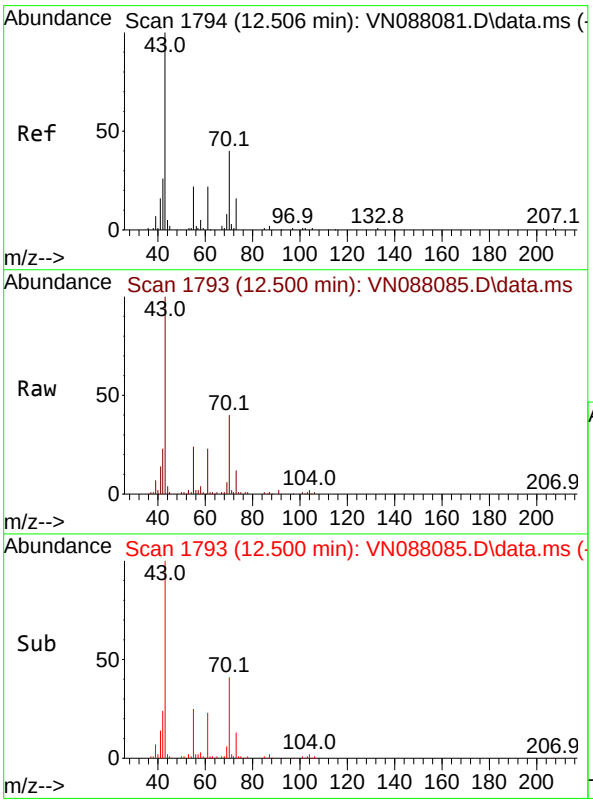
Ion	Ratio	Lower	Upper
105	100		
120	26.0	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

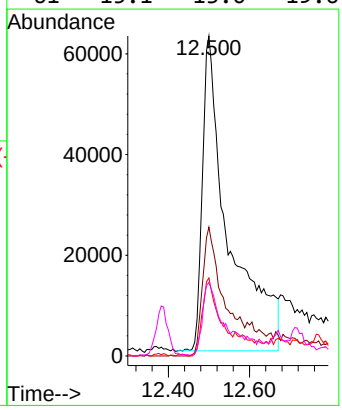
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

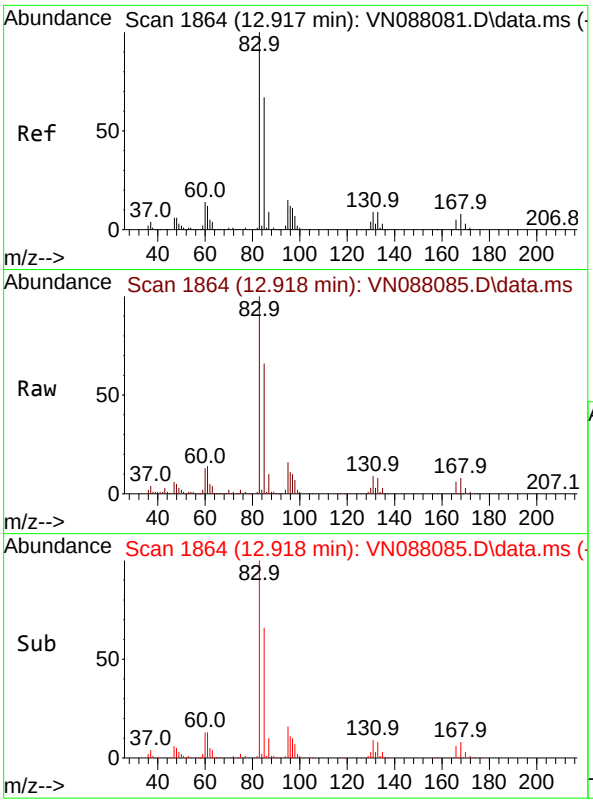


#74
N-amyl acetate
Concen: 58.174 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 43 Resp: 282147

Ion	Ratio	Lower	Upper
43	100		
70	32.5	27.6	41.4
55	15.9	13.0	19.6
61	15.1	13.0	19.6

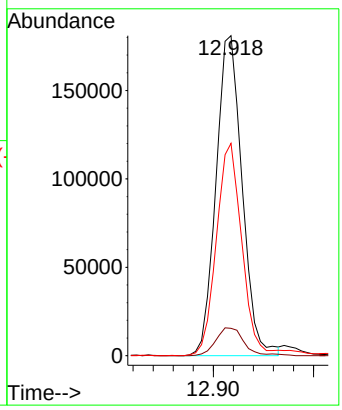




#75
1,1,2,2-Tetrachloroethane
Concen: 49.583 ug/l
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 83 Resp: 32785

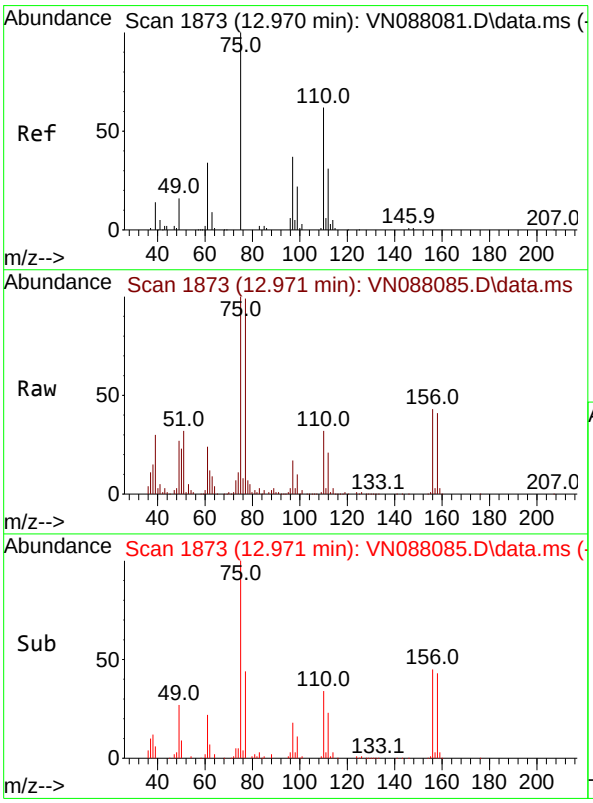
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.8	14.4
85	64.2	32.1	96.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

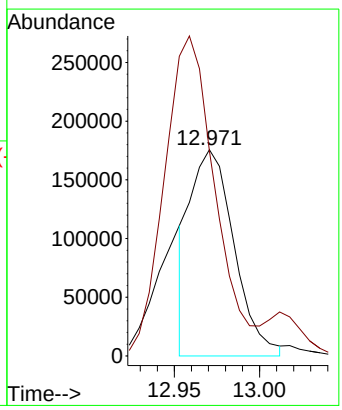
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

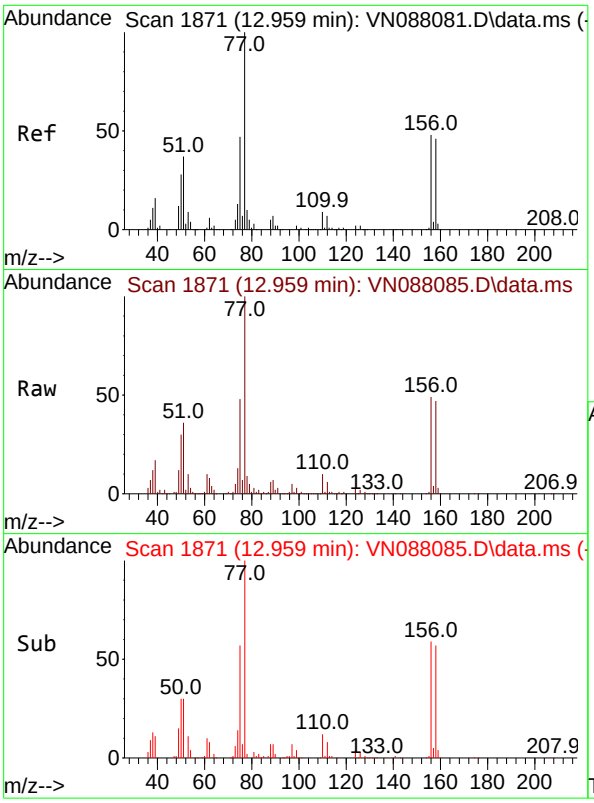


#76
1,2,3-Trichloropropane
Concen: 49.793 ug/l m
RT: 12.971 min Scan# 1873
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 75 Resp: 313480

Ion	Ratio	Lower	Upper
75	100		
77	180.9	89.1	267.4

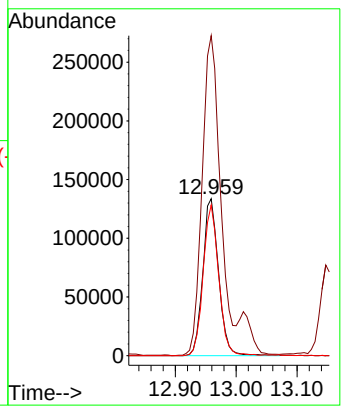




#77
Bromobenzene
Concen: 52.553 ug/l
RT: 12.959 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:156 Resp: 24068

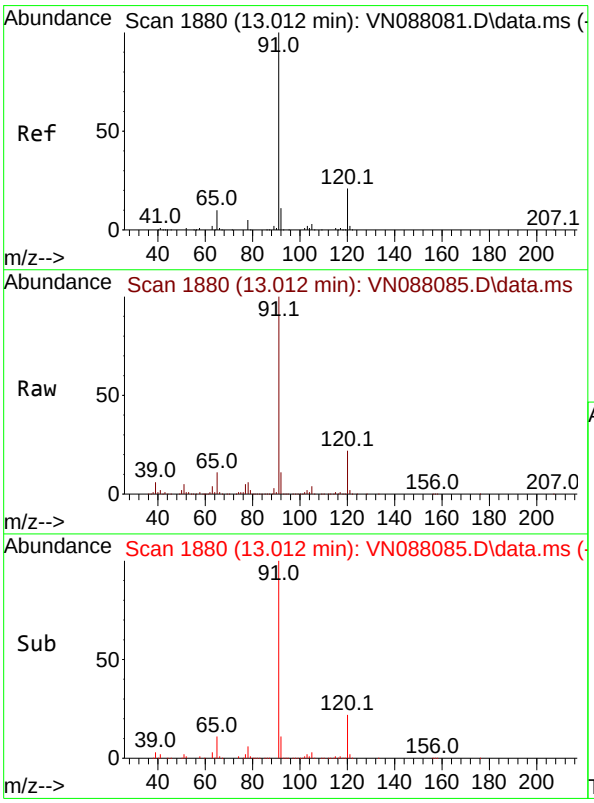
Ion	Ratio	Lower	Upper
156	100		
77	235.6	119.3	358.0
158	94.7	48.2	144.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

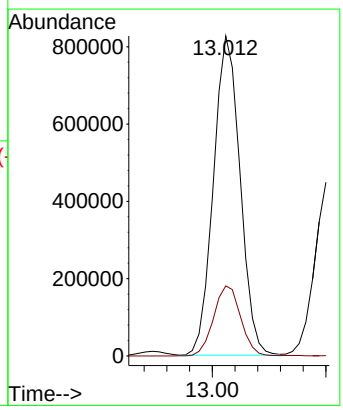
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

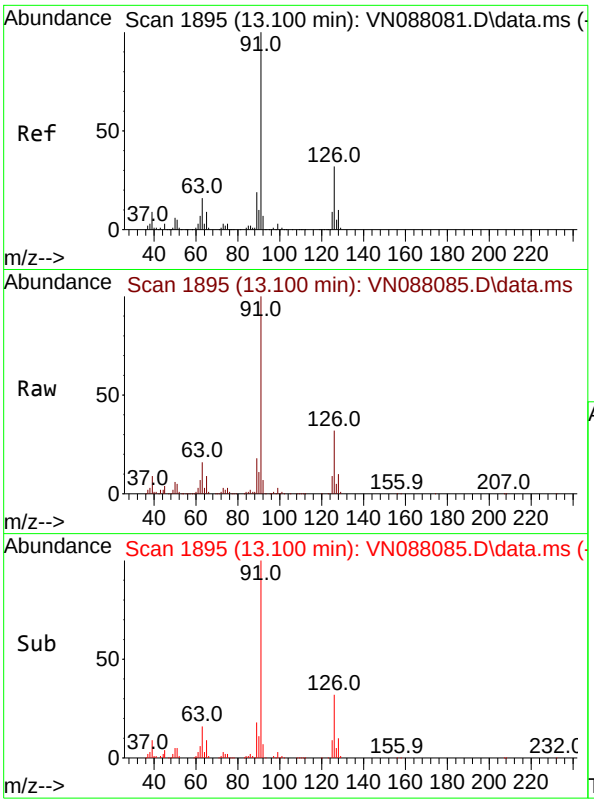


#78
n-propylbenzene
Concen: 51.859 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 91 Resp: 1344076

Ion	Ratio	Lower	Upper
91	100		
120	22.3	10.7	32.1

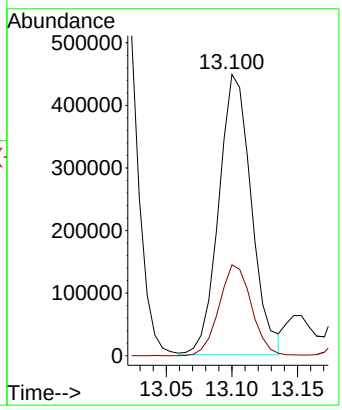




#79
2-Chlorotoluene
Concen: 52.463 ug/l
RT: 13.100 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 91 Resp: 7754

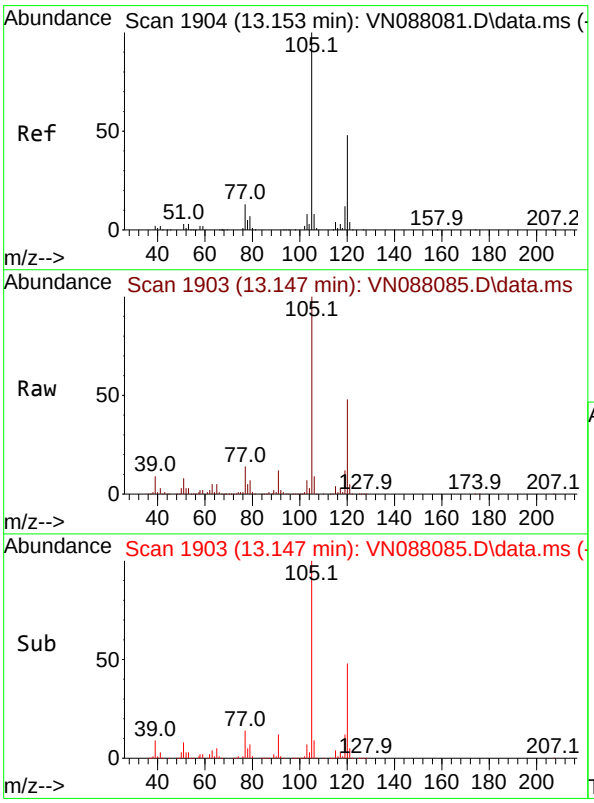
Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.1	48.3



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

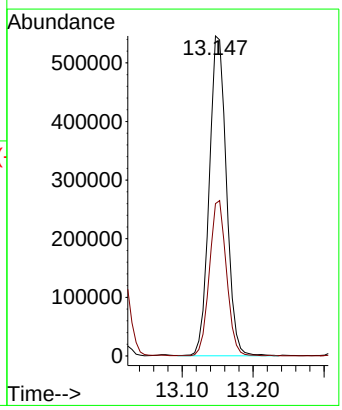
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

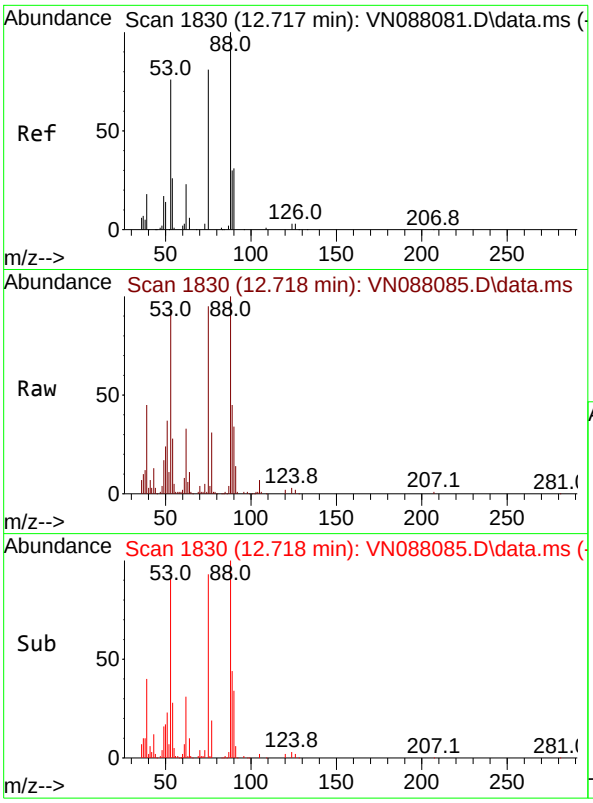


#80
1,3,5-Trimethylbenzene
Concen: 51.853 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:105 Resp: 914603

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.2	69.6

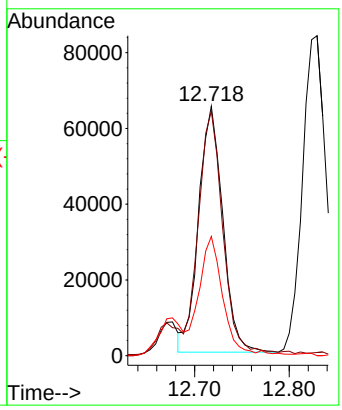




#81
trans-1,4-Dichloro-2-butene
Concen: 51.074 ug/l
RT: 12.718 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 75 Resp: 11526

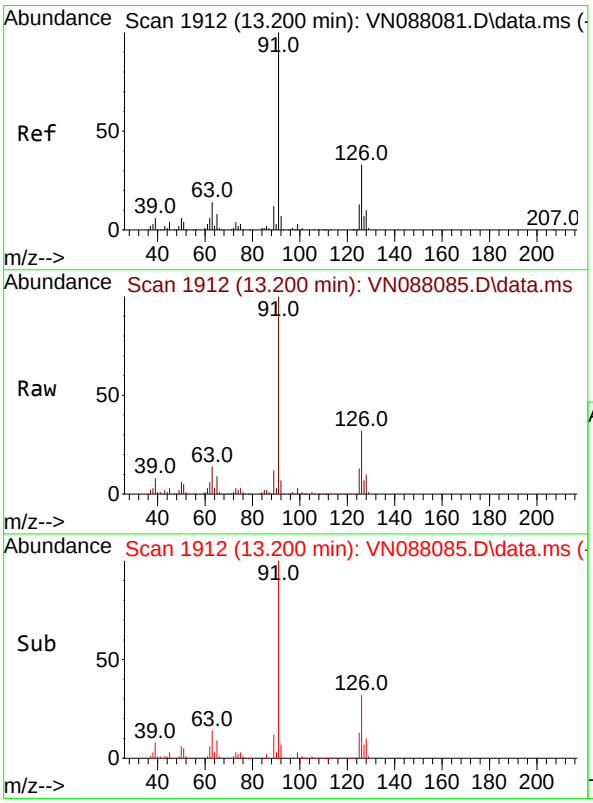
Ion	Ratio	Lower	Upper
75	100		
53	98.4	101.8	152.6
89	47.5	35.6	53.4



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

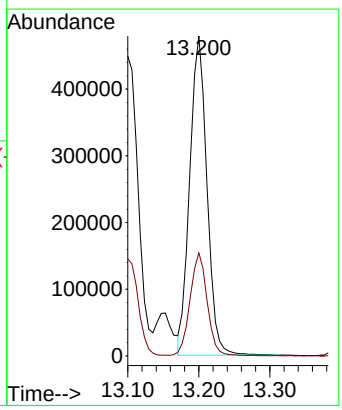
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

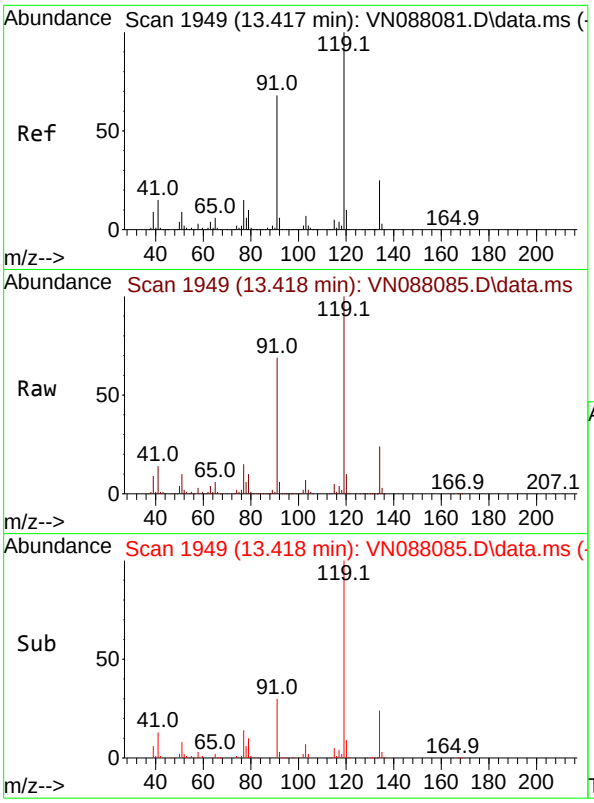


#82
4-Chlorotoluene
Concen: 50.497 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 91 Resp: 807500

Ion	Ratio	Lower	Upper
91	100		
126	32.5	15.6	46.8

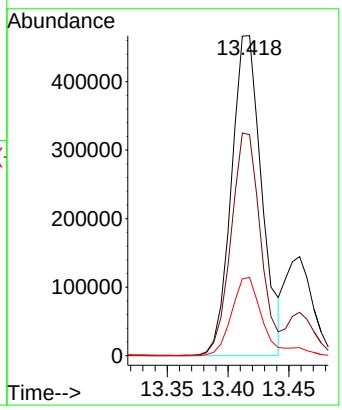




#83
tert-Butylbenzene
Concen: 51.237 ug/l
RT: 13.418 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:119 Resp: 80730

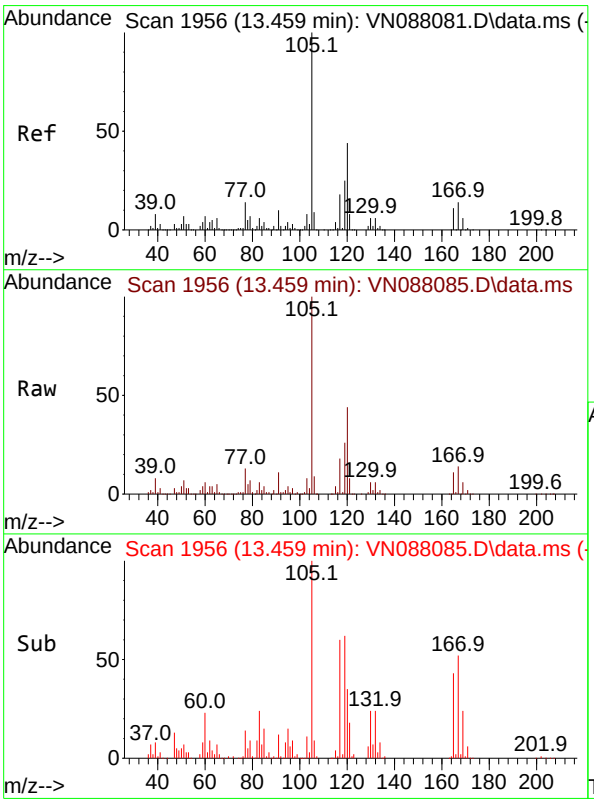
Ion	Ratio	Lower	Upper
119	100		
91	67.5	35.0	105.0
134	25.6	12.6	37.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

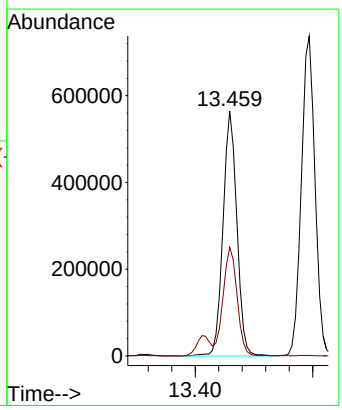
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

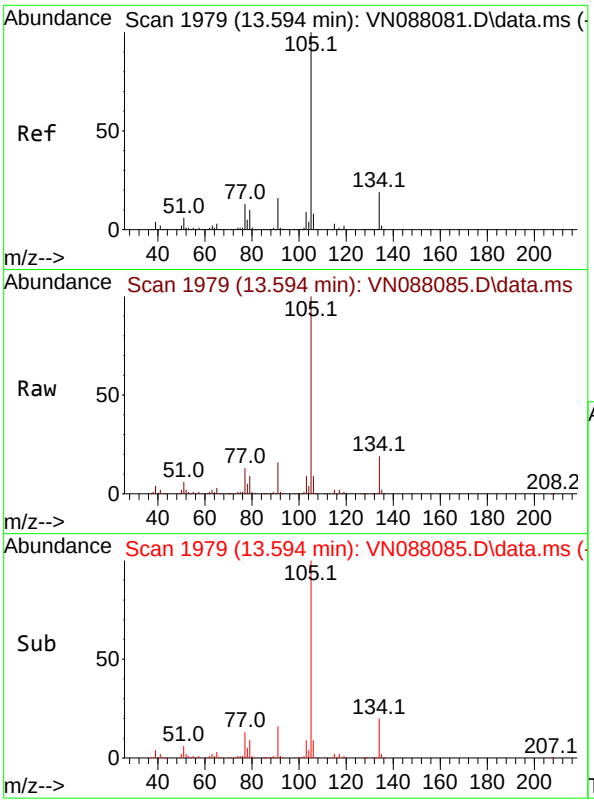


#84
1,2,4-Trimethylbenzene
Concen: 52.321 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:105 Resp: 923338

Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.0	66.0

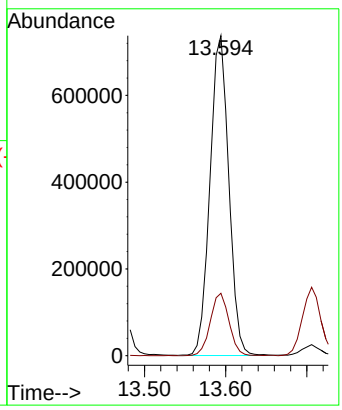




#85
sec-Butylbenzene
Concen: 51.364 ug/l
RT: 13.594 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:105 Resp: 118905

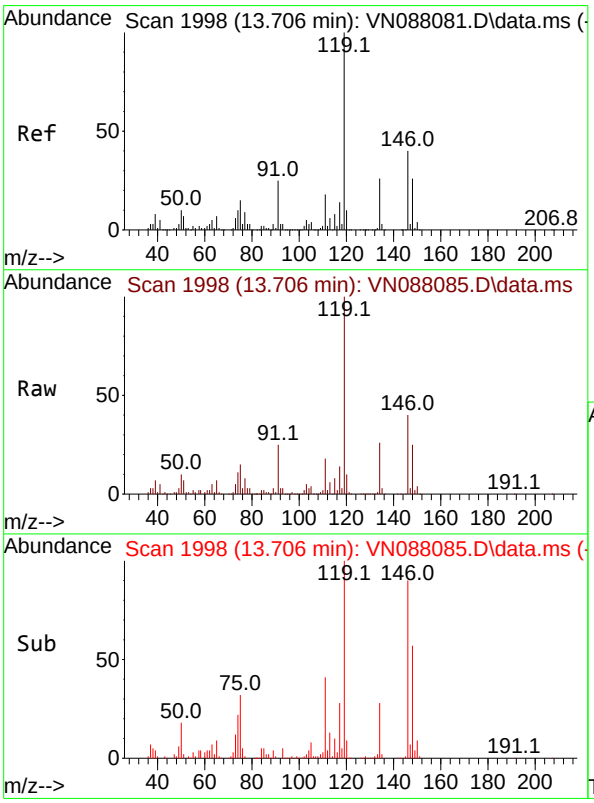
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.6	28.6



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

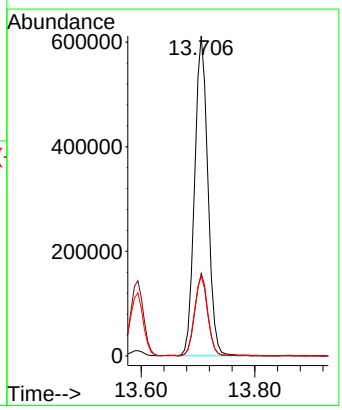
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

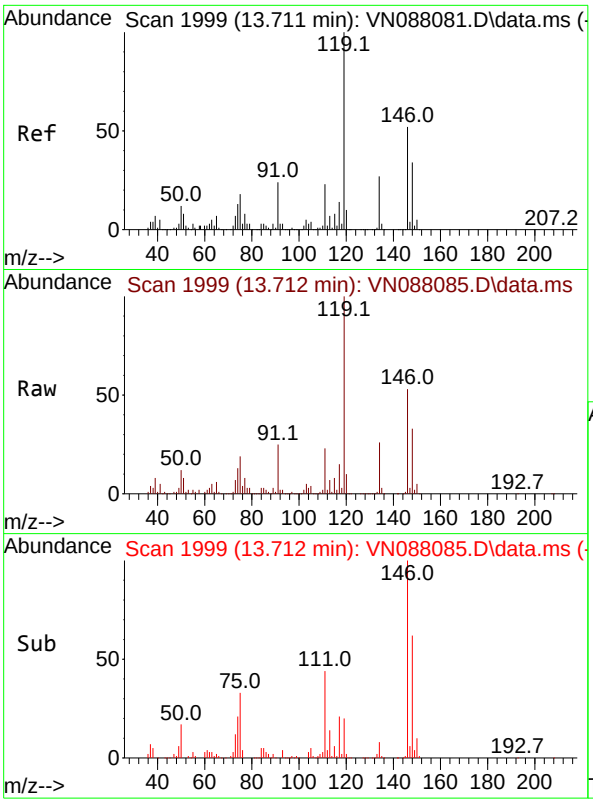


#86
p-Isopropyltoluene
Concen: 53.478 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:119 Resp: 993123

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.7	38.0
91	24.7	12.5	37.5

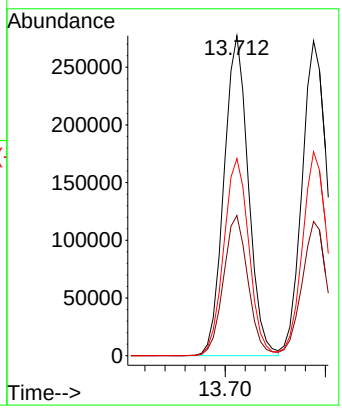




#87
1,3-Dichlorobenzene
Concen: 51.358 ug/l
RT: 13.712 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:146 Resp: 46954

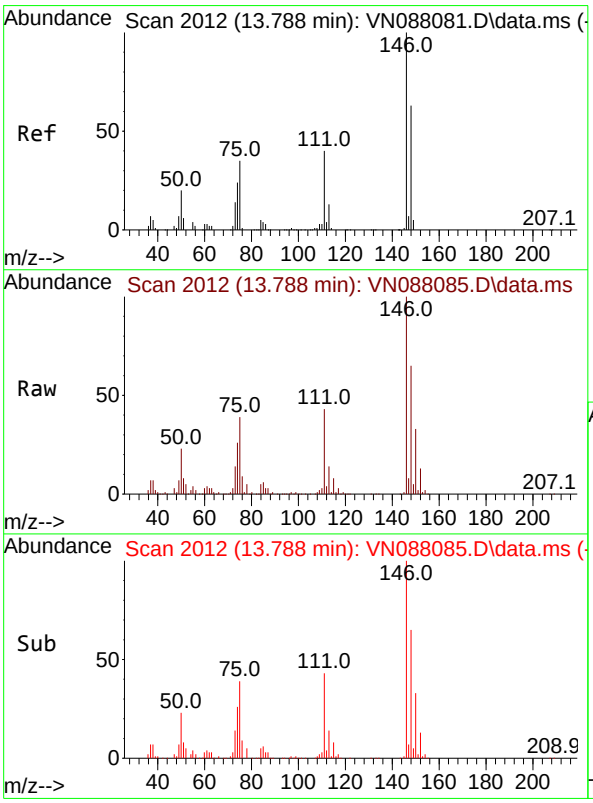
Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.1	66.5
148	63.5	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

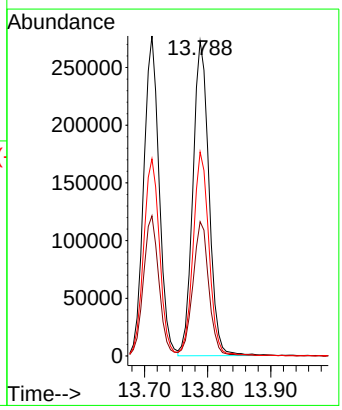
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

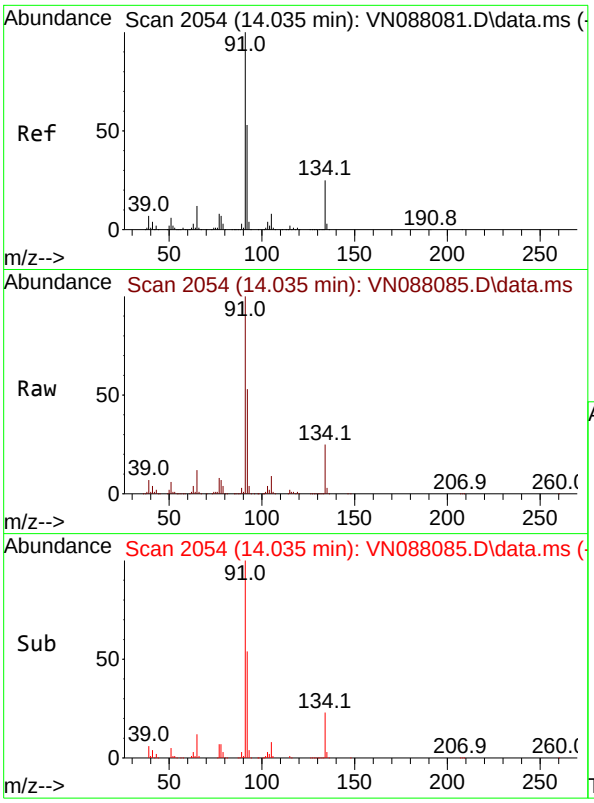


#88
1,4-Dichlorobenzene
Concen: 48.992 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:146 Resp: 481076

Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.0	63.0
148	63.5	32.0	96.0

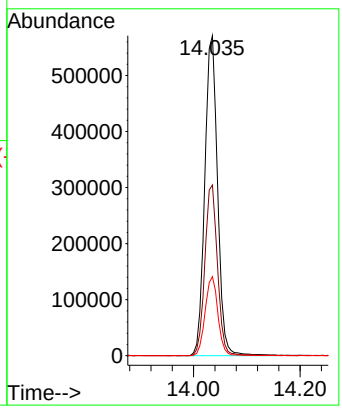




#89
n-Butylbenzene
Concen: 51.698 ug/l
RT: 14.035 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 91 Resp: 95099

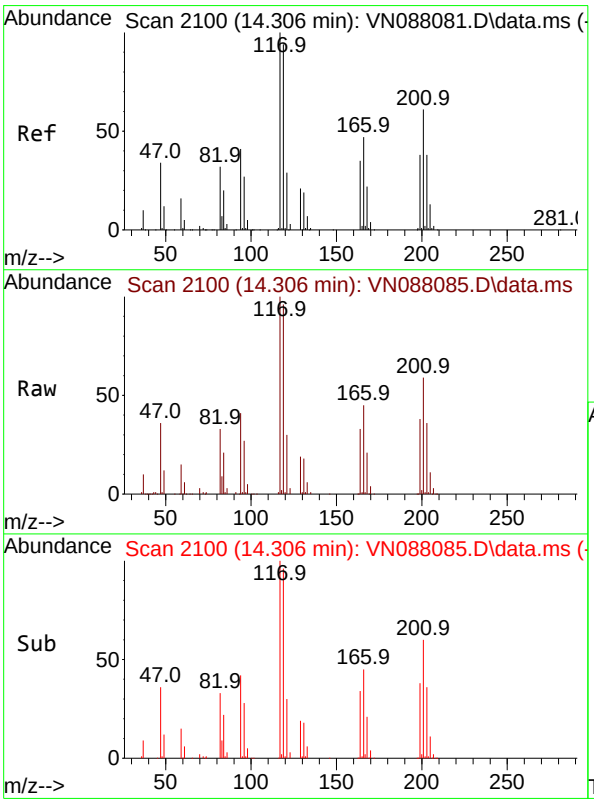
Ion	Ratio	Lower	Upper
91	100		
92	53.0	25.9	77.8
134	24.7	11.7	35.0



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

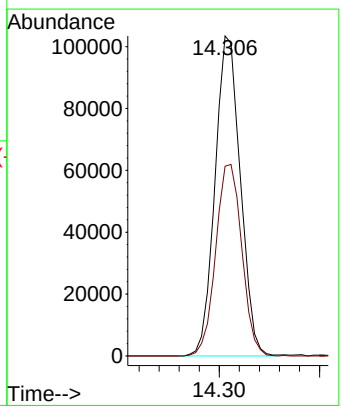
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

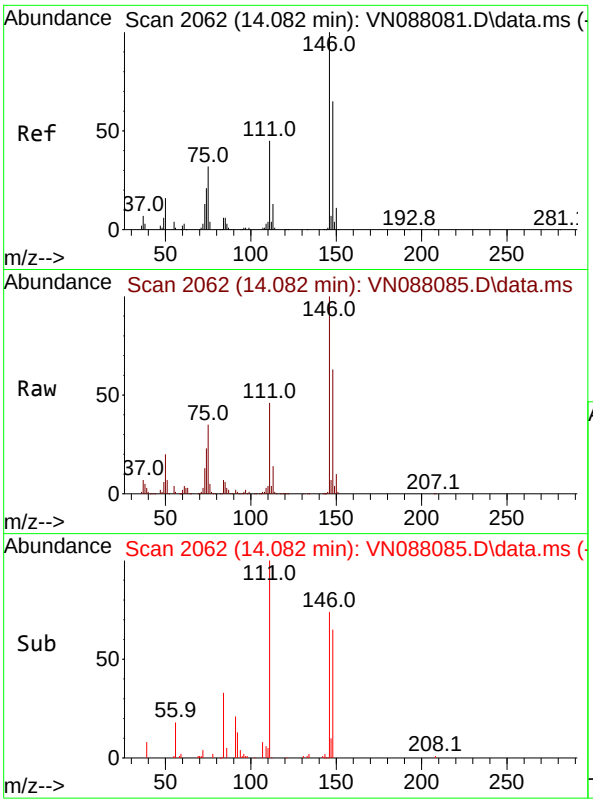


#90
Hexachloroethane
Concen: 50.453 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:117 Resp: 181442

Ion	Ratio	Lower	Upper
117	100		
201	61.6	29.1	87.4

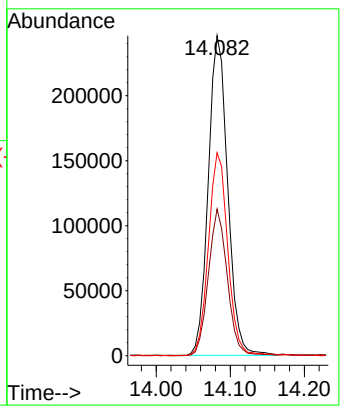




#91
1,2-Dichlorobenzene
Concen: 50.769 ug/l
RT: 14.082 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:146 Resp: 44742

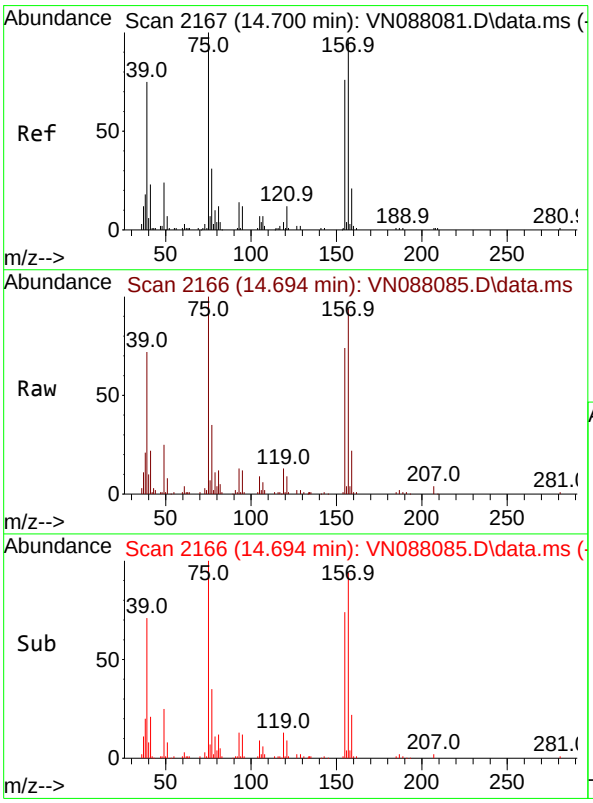
Ion	Ratio	Lower	Upper
146	100		
111	44.8	22.6	67.8
148	63.4	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations APPROVED

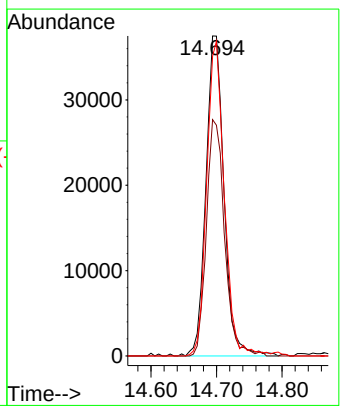
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

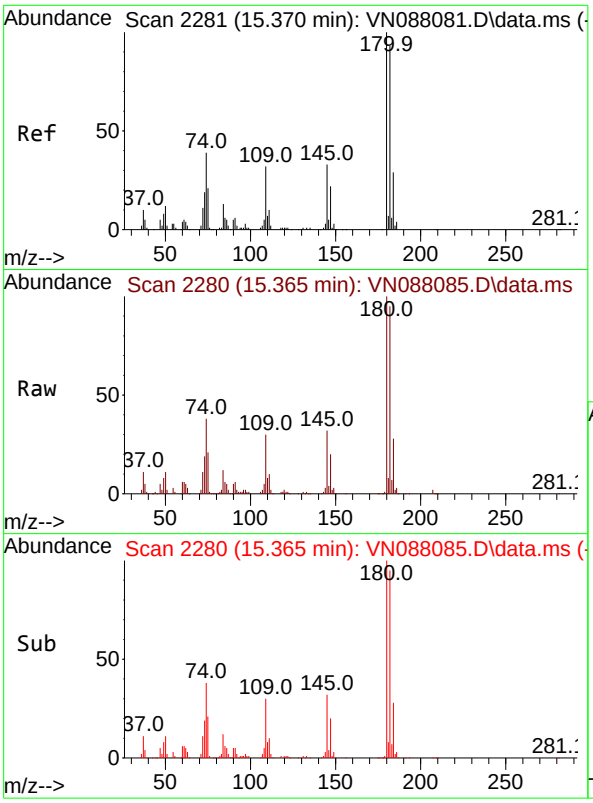


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.810 ug/l
RT: 14.694 min Scan# 2166
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion: 75 Resp: 72041

Ion	Ratio	Lower	Upper
75	100		
155	74.0	36.6	109.9
157	95.6	45.6	136.9

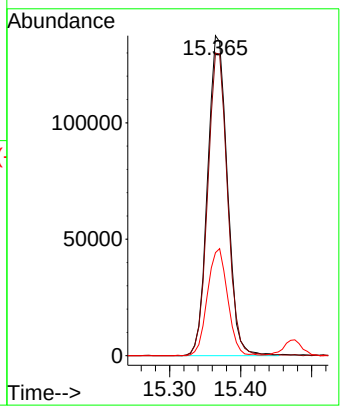




#93
1,2,4-Trichlorobenzene
Concen: 49.750 ug/l
RT: 15.365 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:180 Resp: 26553

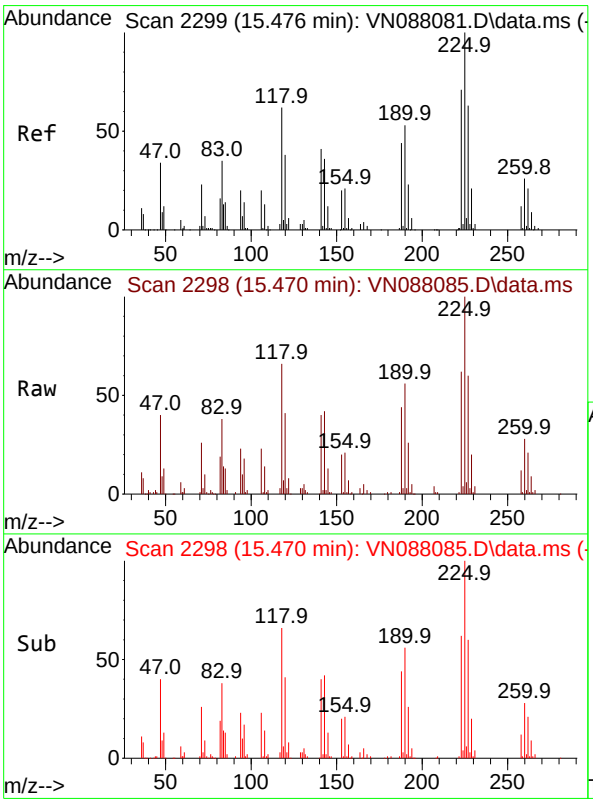
Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.6	142.9
145	34.1	16.5	49.5



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

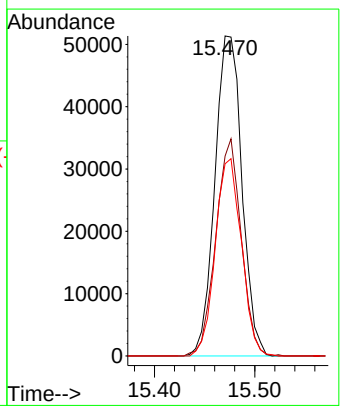
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

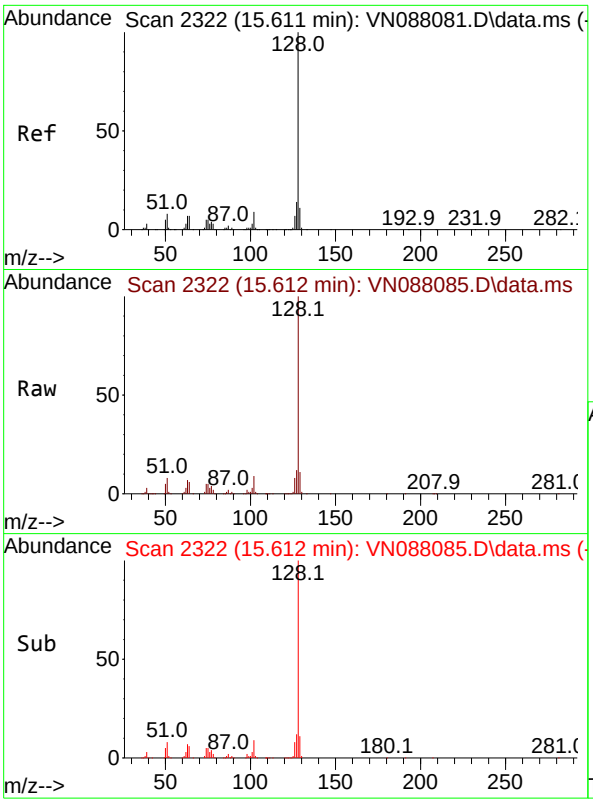


#94
Hexachlorobutadiene
Concen: 48.455 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:225 Resp: 96309

Ion	Ratio	Lower	Upper
225	100		
223	63.8	32.0	96.2
227	59.7	32.1	96.5

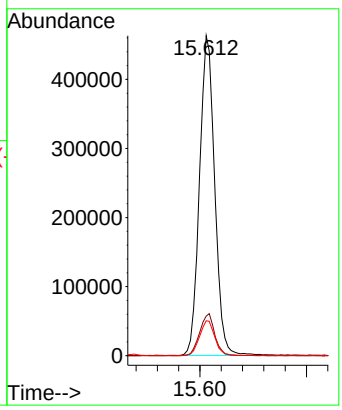




#95
Naphthalene
Concen: 50.263 ug/l
RT: 15.612 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:128 Resp: 91902

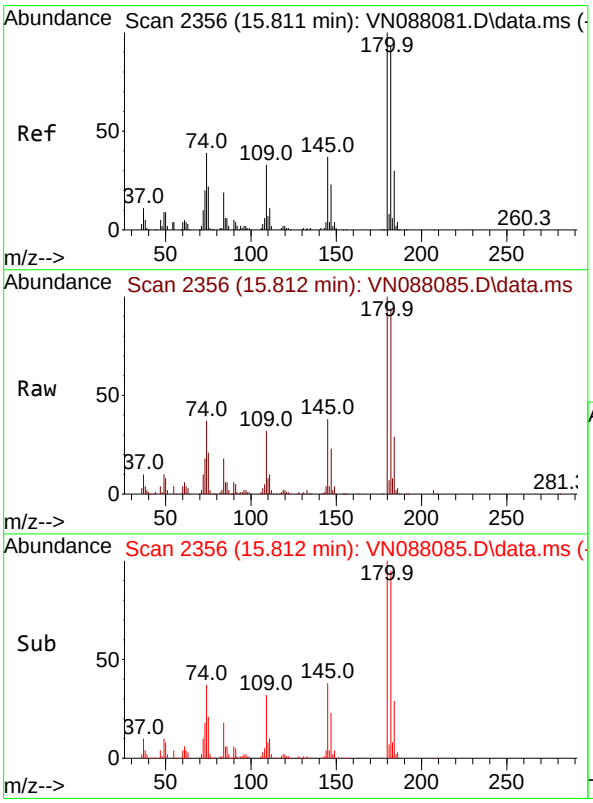
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	11.0	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Manual Integrations
APPROVED

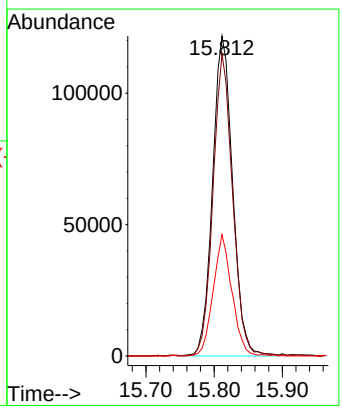
Reviewed By :John Carlone 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 48.860 ug/l
RT: 15.812 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088085.D
Acq: 23 Oct 2025 14:54

Tgt Ion:180 Resp: 250044

Ion	Ratio	Lower	Upper
180	100		
182	92.2	46.8	140.3
145	35.5	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088085.D
Acq On : 23 Oct 2025 14:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Quant Time: Oct 24 03:19:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 03:16:47 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	98	0.00
2	T	Dichlorodifluoromethane	0.564	0.551	2.3	118	0.00
3	P	Chloromethane	0.664	0.664	0.0	125	0.00
4	C	Vinyl Chloride	0.723	0.718	0.7#	121	0.00
5	T	Bromomethane	0.432	0.449	-3.9	128	0.00
6	T	Chloroethane	0.521	0.529	-1.5	125	0.00
7	T	Trichlorofluoromethane	1.153	1.186	-2.9	121	0.00
8	T	Diethyl Ether	0.429	0.460	-7.2	140	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.595	0.650	-9.2	133	0.00
10	T	Methyl Iodide	0.544	0.573	-5.3	123	0.00
11	T	Tert butyl alcohol	0.149	0.135	9.4	114	0.00
12	CM	1,1-Dichloroethene	0.628	0.650	-3.5#	137	0.00
13	T	Acrolein	0.168	0.191	-13.7	150#	0.00
14	T	Allyl chloride	1.102	1.027	6.8	123	0.00
15	T	Acrylonitrile	0.406	0.396	2.5	119	0.00
16	T	Acetone	0.434	0.430	0.9	131	0.00
17	T	Carbon Disulfide	1.910	1.811	5.2	119	0.00
18	T	Methyl Acetate	0.889	0.844	5.1	120	0.00
19	T	Methyl tert-butyl Ether	2.308	2.287	0.9	125	0.00
20	T	Methylene Chloride	0.729	0.688	5.6	124	0.00
21	T	trans-1,2-Dichloroethene	0.690	0.661	4.2	120	0.00
22	T	Diisopropyl ether	2.317	2.395	-3.4	124	0.00
23	T	Vinyl Acetate	2.087	2.182	-4.6	123	0.00
24	P	1,1-Dichloroethane	1.283	1.282	0.1	122	0.00
25	T	2-Butanone	0.572	0.564	1.4	118	0.00
26	T	2,2-Dichloropropane	1.166	1.167	-0.1	124	0.00
27	T	cis-1,2-Dichloroethene	0.794	0.785	1.1	122	0.00
28	T	Bromochloromethane	0.606	0.613	-1.2	102	0.00
29	T	Tetrahydrofuran	0.373	0.366	1.9	121	0.00
30	C	Chloroform	1.282	1.285	-0.2#	120	0.00
31	T	Cyclohexane	1.210	1.198	1.0	121	0.00
32	T	1,1,1-Trichloroethane	1.142	1.137	0.4	122	0.00
33	S	1,2-Dichloroethane-d4	0.865	0.808	6.6	99	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35	S	Dibromofluoromethane	0.336	0.308	8.3	98	0.00
36	T	1,1-Dichloropropene	0.490	0.484	1.2	120	0.00
37	T	Ethyl Acetate	0.633	0.585	7.6	119	0.00
38	T	Carbon Tetrachloride	0.507	0.509	-0.4	122	0.00
39	T	Methylcyclohexane	0.630	0.629	0.2	120	0.00
40	TM	Benzene	1.494	1.482	0.8	122	0.00
41	T	Methacrylonitrile	0.333	0.320	3.9	119	0.00
42	TM	1,2-Dichloroethane	0.531	0.529	0.4	122	0.00
43	T	Isopropyl Acetate	0.973	0.981	-0.8	121	0.00
44	TM	Trichloroethene	0.349	0.343	1.7	121	0.00
45	C	1,2-Dichloropropane	0.377	0.371	1.6#	121	0.00
46	T	Dibromomethane	0.269	0.269	0.0	124	0.00
47	T	Bromodichloromethane	0.538	0.543	-0.9	124	0.00
48	T	Methyl methacrylate	0.449	0.453	-0.9	122	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088085.D
Acq On : 23 Oct 2025 14:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Quant Time: Oct 24 03:19:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 03:16:47 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	0.006	0.005	16.7	123	0.00
50	S	Toluene-d8	1.294	1.213	6.3	99	0.00
51	T	4-Methyl-2-Pentanone	0.575	0.583	-1.4	120	0.00
52	CM	Toluene	0.921	0.928	-0.8#	123	0.00
53	T	t-1,3-Dichloropropene	0.573	0.601	-4.9	126	0.00
54	T	cis-1,3-Dichloropropene	0.608	0.629	-3.5	126	0.00
55	T	1,1,2-Trichloroethane	0.349	0.338	3.2	120	0.00
56	T	Ethyl methacrylate	0.553	0.599	-8.3	126	0.00
57	T	1,3-Dichloropropane	0.614	0.625	-1.8	124	0.00
58	T	2-Chloroethyl Vinyl ether	0.288	0.309	-7.3	126	0.00
59	T	2-Hexanone	0.382	0.408	-6.8	123	0.00
60	T	Dibromochloromethane	0.397	0.403	-1.5	124	0.00
61	T	1,2-Dibromoethane	0.360	0.359	0.3	125	0.00
62	S	4-Bromofluorobenzene	0.457	0.430	5.9	98	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64	T	Tetrachloroethene	0.330	0.318	3.6	122	0.00
65	PM	Chlorobenzene	1.135	1.153	-1.6	121	0.00
66	T	1,1,1,2-Tetrachloroethane	0.372	0.380	-2.2	121	0.00
67	C	Ethyl Benzene	1.993	2.041	-2.4#	122	0.00
68	T	m/p-Xylenes	0.747	0.777	-4.0	121	0.00
69	T	o-Xylene	0.708	0.749	-5.8	123	0.00
70	T	Styrene	1.154	1.250	-8.3	122	0.00
71	P	Bromoform	0.278	0.286	-2.9	121	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	3.856	3.979	-3.2	123	0.00
74	T	N-amyl acetate	1.095	1.025	6.4	109	0.00
75	P	1,1,2,2-Tetrachloroethane	1.201	1.191	0.8	122	0.00
76	T	1,2,3-Trichloropropane	1.143	1.138	0.4	120	0.00
77	T	Bromobenzene	0.832	0.874	-5.0	124	0.00
78	T	n-propylbenzene	4.706	4.881	-3.7	122	0.00
79	T	2-Chlorotoluene	2.684	2.816	-4.9	123	0.00
80	T	1,3,5-Trimethylbenzene	3.203	3.321	-3.7	122	0.00
81	T	trans-1,4-Dichloro-2-butene	0.410	0.419	-2.2	129	0.00
82	T	4-Chlorotoluene	2.904	2.932	-1.0	122	0.00
83	T	tert-Butylbenzene	2.861	2.932	-2.5	122	0.00
84	T	1,2,4-Trimethylbenzene	3.204	3.353	-4.7	121	0.00
85	T	sec-Butylbenzene	4.203	4.318	-2.7	121	0.00
86	T	p-Isopropyltoluene	3.372	3.607	-7.0	123	0.00
87	T	1,3-Dichlorobenzene	1.660	1.705	-2.7	121	0.00
88	T	1,4-Dichlorobenzene	1.783	1.747	2.0	122	0.00
89	T	n-Butylbenzene	3.340	3.454	-3.4	119	0.00
90	T	Hexachloroethane	0.653	0.659	-0.9	120	0.00
91	T	1,2-Dichlorobenzene	1.600	1.625	-1.6	123	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.279	0.262	6.1	120	0.00
93	T	1,2,4-Trichlorobenzene	0.969	0.964	0.5	120	0.00
94	T	Hexachlorobutadiene	0.361	0.350	3.0	117	0.00
95	T	Naphthalene	3.320	3.337	-0.5	119	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088085.D
Acq On : 23 Oct 2025 14:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Quant Time: Oct 24 03:19:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 03:16:47 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	0.929	0.908	2.3	121	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\VN102325\
Data File : VN088085.D
Acq On : 23 Oct 2025 14:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Quant Time: Oct 24 03:19:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 03:16:47 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	98	0.00
2	T	Dichlorodifluoromethane	50.000	48.872	2.3	118	0.00
3	P	Chloromethane	50.000	50.058	-0.1	125	0.00
4	C	Vinyl Chloride	50.000	49.688	0.6#	121	0.00
5	T	Bromomethane	50.000	51.903	-3.8	128	0.00
6	T	Chloroethane	50.000	50.817	-1.6	125	0.00
7	T	Trichlorofluoromethane	50.000	51.420	-2.8	121	0.00
8	T	Diethyl Ether	50.000	53.668	-7.3	140	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	54.641	-9.3	133	0.00
10	T	Methyl Iodide	50.000	48.914	2.2	123	0.00
11	T	Tert butyl alcohol	250.000	227.357	9.1	114	0.00
12	CM	1,1-Dichloroethene	50.000	51.748	-3.5#	137	0.00
13	T	Acrolein	250.000	285.010	-14.0	150	0.00
14	T	Allyl chloride	50.000	46.622	6.8	123	0.00
15	T	Acrylonitrile	250.000	243.784	2.5	119	0.00
16	T	Acetone	250.000	247.368	1.1	131	0.00
17	T	Carbon Disulfide	50.000	47.390	5.2	119	0.00
18	T	Methyl Acetate	50.000	47.467	5.1	120	0.00
19	T	Methyl tert-butyl Ether	50.000	49.555	0.9	125	0.00
20	T	Methylene Chloride	50.000	50.891	-1.8	124	0.00
21	T	trans-1,2-Dichloroethene	50.000	47.883	4.2	120	0.00
22	T	Diisopropyl ether	50.000	51.691	-3.4	124	0.00
23	T	Vinyl Acetate	250.000	261.399	-4.6	123	0.00
24	P	1,1-Dichloroethane	50.000	49.935	0.1	122	0.00
25	T	2-Butanone	250.000	246.326	1.5	118	0.00
26	T	2,2-Dichloropropane	50.000	50.040	-0.1	124	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.410	1.2	122	0.00
28	T	Bromochloromethane	50.000	50.544	-1.1	102	0.00
29	T	Tetrahydrofuran	250.000	245.497	1.8	121	0.00
30	C	Chloroform	50.000	50.104	-0.2#	120	0.00
31	T	Cyclohexane	50.000	49.485	1.0	121	0.00
32	T	1,1,1-Trichloroethane	50.000	49.791	0.4	122	0.00
33	S	1,2-Dichloroethane-d4	50.000	46.699	6.6	99	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35	S	Dibromofluoromethane	50.000	45.865	8.3	98	0.00
36	T	1,1-Dichloropropene	50.000	49.383	1.2	120	0.00
37	T	Ethyl Acetate	50.000	46.186	7.6	119	0.00
38	T	Carbon Tetrachloride	50.000	50.287	-0.6	122	0.00
39	T	Methylcyclohexane	50.000	49.916	0.2	120	0.00
40	TM	Benzene	50.000	49.611	0.8	122	0.00
41	T	Methacrylonitrile	50.000	48.042	3.9	119	0.00
42	TM	1,2-Dichloroethane	50.000	49.855	0.3	122	0.00
43	T	Isopropyl Acetate	50.000	50.434	-0.9	121	0.00
44	TM	Trichloroethene	50.000	49.112	1.8	121	0.00
45	C	1,2-Dichloropropane	50.000	49.237	1.5#	121	0.00
46	T	Dibromomethane	50.000	50.069	-0.1	124	0.00
47	T	Bromodichloromethane	50.000	50.420	-0.8	124	0.00
48	T	Methyl methacrylate	50.000	50.456	-0.9	122	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088085.D
Acq On : 23 Oct 2025 14:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Quant Time: Oct 24 03:19:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 03:16:47 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	967.465	3.3	123	0.00
50	S	Toluene-d8	50.000	46.842	6.3	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	253.315	-1.3	120	0.00
52	CM	Toluene	50.000	50.407	-0.8#	123	0.00
53	T	t-1,3-Dichloropropene	50.000	52.416	-4.8	126	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.721	-3.4	126	0.00
55	T	1,1,2-Trichloroethane	50.000	48.370	3.3	120	0.00
56	T	Ethyl methacrylate	50.000	54.214	-8.4	126	0.00
57	T	1,3-Dichloropropane	50.000	50.877	-1.8	124	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	268.651	-7.5	126	0.00
59	T	2-Hexanone	250.000	267.268	-6.9	123	0.00
60	T	Dibromochloromethane	50.000	50.751	-1.5	124	0.00
61	T	1,2-Dibromoethane	50.000	49.976	0.0	125	0.00
62	S	4-Bromofluorobenzene	50.000	47.012	6.0	98	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64	T	Tetrachloroethene	50.000	48.214	3.6	122	0.00
65	PM	Chlorobenzene	50.000	50.798	-1.6	121	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.047	-2.1	121	0.00
67	C	Ethyl Benzene	50.000	51.208	-2.4#	122	0.00
68	T	m/p-Xylenes	100.000	104.109	-4.1	121	0.00
69	T	o-Xylene	50.000	52.899	-5.8	123	0.00
70	T	Styrene	50.000	54.133	-8.3	122	0.00
71	P	Bromoform	50.000	51.590	-3.2	121	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	51.590	-3.2	123	0.00
74	T	N-amyl acetate	50.000	58.174	-16.3	109	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.583	0.8	122	0.00
76	T	1,2,3-Trichloropropane	50.000	49.793	0.4	120	0.00
77	T	Bromobenzene	50.000	52.553	-5.1	124	0.00
78	T	n-propylbenzene	50.000	51.859	-3.7	122	0.00
79	T	2-Chlorotoluene	50.000	52.463	-4.9	123	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.853	-3.7	122	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	51.074	-2.1	129	0.00
82	T	4-Chlorotoluene	50.000	50.497	-1.0	122	0.00
83	T	tert-Butylbenzene	50.000	51.237	-2.5	122	0.00
84	T	1,2,4-Trimethylbenzene	50.000	52.321	-4.6	121	0.00
85	T	sec-Butylbenzene	50.000	51.364	-2.7	121	0.00
86	T	p-Isopropyltoluene	50.000	53.478	-7.0	123	0.00
87	T	1,3-Dichlorobenzene	50.000	51.358	-2.7	121	0.00
88	T	1,4-Dichlorobenzene	50.000	48.992	2.0	122	0.00
89	T	n-Butylbenzene	50.000	51.698	-3.4	119	0.00
90	T	Hexachloroethane	50.000	50.453	-0.9	120	0.00
91	T	1,2-Dichlorobenzene	50.000	50.769	-1.5	123	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	46.810	6.4	120	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.750	0.5	120	0.00
94	T	Hexachlorobutadiene	50.000	48.455	3.1	117	0.00
95	T	Naphthalene	50.000	50.263	-0.5	119	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088085.D
Acq On : 23 Oct 2025 14:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN102325

Quant Time: Oct 24 03:19:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Fri Oct 24 03:16:47 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	48.860	2.3	121	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 ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance | Contract: ROYF02

Lab Code: ACE | SDG No.: Q3447

Instrument ID: MSVOA_Y | Calibration Date(s): 10/07/2025 10/07/2025

Heated Purge: (Y/N) Y | Calibration Time(s): 09:17 12:32

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

LAB FILE ID: RRF005 = VY023384.D RRF010 = VY023385.D RRF020 = VY023386.D
RRF050 = VY023387.D RRF100 = VY023388.D RRF150 = VY023389.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.397	0.399	0.400	0.321	0.310	0.333	0.360	12
Chloromethane	0.518	0.557	0.512	0.449	0.438	0.467	0.490	9.4
Vinyl Chloride	0.660	0.684	0.659	0.598	0.597	0.633	0.639	5.6
Bromomethane	0.601	0.596	0.548	0.469	0.483	0.518	0.536	10.4
Chloroethane	0.441	0.462	0.453	0.414	0.413	0.429	0.435	4.7
Trichlorofluoromethane	0.884	0.920	0.946	0.842	0.850	0.877	0.887	4.5
1,1,2-Trichlorotrifluoroethane	0.484	0.486	0.479	0.437	0.429	0.445	0.460	5.6
1,1-Dichloroethene	0.449	0.475	0.456	0.427	0.426	0.443	0.446	4.1
Acetone	0.128	0.117	0.094	0.084	0.085	0.089	0.100	18.7
Carbon Disulfide	1.291	1.367	1.320	1.225	1.210	1.246	1.277	4.7
Methyl tert-butyl Ether	1.006	1.075	1.075	1.020	1.091	1.165	1.072	5.3
Methyl Acetate	0.244	0.265	0.260	0.245	0.266	0.286	0.261	6
Methylene Chloride	0.625	0.634	0.576	0.458	0.463	0.473	0.538	15.4
trans-1,2-Dichloroethene	0.494	0.504	0.507	0.470	0.478	0.494	0.491	2.9
1,1-Dichloroethane	0.800	0.835	0.827	0.759	0.765	0.792	0.796	3.9
Cyclohexane	0.797	0.717	0.697	0.643	0.644	0.676	0.696	8.3
2-Butanone	0.133	0.134	0.115	0.105	0.115	0.126	0.122	9.6
Carbon Tetrachloride	0.483	0.501	0.504	0.481	0.487	0.503	0.493	2.1
cis-1,2-Dichloroethene	0.542	0.584	0.582	0.542	0.563	0.591	0.567	3.8
Bromochloromethane	0.332	0.323	0.320	0.267	0.270	0.273	0.297	10.2
Chloroform	0.886	0.912	0.901	0.835	0.842	0.874	0.875	3.5
1,1,1-Trichloroethane	0.808	0.814	0.822	0.767	0.764	0.796	0.795	3.1
Methylcyclohexane	0.491	0.486	0.537	0.527	0.554	0.583	0.530	7
Benzene	1.253	1.302	1.322	1.259	1.281	1.312	1.288	2.2
1,2-Dichloroethane	0.328	0.346	0.343	0.315	0.324	0.338	0.332	3.6
Trichloroethene	0.380	0.381	0.386	0.367	0.372	0.376	0.377	1.8
1,2-Dichloropropane	0.276	0.289	0.292	0.274	0.283	0.293	0.285	2.9
Bromodichloromethane	0.440	0.463	0.459	0.439	0.449	0.468	0.453	2.7
4-Methyl-2-Pentanone	0.141	0.159	0.161	0.159	0.180	0.196	0.166	11.6
Toluene	0.777	0.818	0.855	0.827	0.855	0.885	0.836	4.5

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

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3447

Instrument ID: MSVOA_Y Calibration Date(s): 10/07/2025 10/07/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:17 12:32

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

LAB FILE ID: RRF005 = VY023384.D RRF010 = VY023385.D RRF020 = VY023386.D
RRF050 = VY023387.D RRF100 = VY023388.D RRF150 = VY023389.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.357	0.380	0.390	0.385	0.415	0.438	0.394	7.2
cis-1,3-Dichloropropene	0.424	0.460	0.465	0.455	0.481	0.505	0.465	5.9
1,1,2-Trichloroethane	0.234	0.247	0.241	0.231	0.244	0.254	0.242	3.5
2-Hexanone	0.108	0.117	0.110	0.112	0.126	0.138	0.119	9.9
Dibromochloromethane	0.319	0.337	0.340	0.327	0.347	0.365	0.339	4.7
1,2-Dibromoethane	0.215	0.229	0.231	0.223	0.237	0.249	0.231	5.2
Tetrachloroethene	0.538	0.517	0.561	0.523	0.502	0.456	0.516	6.9
Chlorobenzene	1.086	1.095	1.092	1.053	1.083	1.116	1.087	1.9
Ethyl Benzene	1.606	1.711	1.753	1.777	1.824	1.891	1.760	5.5
m/p-Xylenes	0.632	0.675	0.715	0.719	0.734	0.763	0.706	6.5
o-Xylene	0.588	0.623	0.653	0.670	0.701	0.738	0.662	8.1
Styrene	0.902	1.026	1.098	1.109	1.166	1.233	1.089	10.5
Bromoform	0.225	0.242	0.238	0.230	0.244	0.262	0.240	5.4
Isopropylbenzene	2.967	3.153	3.353	3.317	3.425	3.555	3.295	6.3
1,1,2,2-Tetrachloroethane	0.530	0.548	0.502	0.499	0.543	0.611	0.539	7.6
1,3-Dichlorobenzene	1.667	1.698	1.718	1.657	1.701	1.794	1.706	2.9
1,4-Dichlorobenzene	1.703	1.703	1.694	1.624	1.653	1.732	1.685	2.3
1,2-Dichlorobenzene	1.485	1.498	1.511	1.446	1.490	1.543	1.496	2.1
1,2-Dibromo-3-Chloropropane	0.087	0.093	0.083	0.083	0.088	0.096	0.088	6.2
1,2,4-Trichlorobenzene	0.846	0.867	0.901	0.918	1.007	1.054	0.932	8.7
1,2,3-Trichlorobenzene	0.719	0.753	0.795	0.793	0.866	0.920	0.808	9.1
1,2-Dichloroethane-d4	0.455	0.436	0.429	0.392	0.392	0.405	0.418	6.2
Dibromofluoromethane	0.311	0.314	0.317	0.298	0.299	0.303	0.307	2.6
Toluene-d8	1.132	1.170	1.177	1.129	1.122	1.135	1.144	2
4-Bromofluorobenzene	0.401	0.370	0.373	0.365	0.372	0.386	0.378	3.5

* 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 GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y100725S.M
Title : SW846 8260
Last Update : Wed Oct 08 05:12:50 2025
Response Via : Initial Calibration

Calibration Files
5 =VY023384.D 10 =VY023385.D 20 =VY023386.D 50 =VY023387.D 100 =VY023388.D 150 =VY023389.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.397	0.399	0.400	0.321	0.310	0.333	0.360	11.97
3)	P	Chloromethane	0.518	0.557	0.512	0.449	0.438	0.467	0.490	9.45
4)	C	Vinyl Chloride	0.660	0.684	0.659	0.598	0.597	0.633	0.639	5.59#
5)	T	Bromomethane	0.601	0.596	0.548	0.469	0.483	0.518	0.536	10.42
6)	T	Chloroethane	0.441	0.462	0.453	0.414	0.413	0.429	0.435	4.67
7)	T	Trichlorofluor...	0.884	0.920	0.946	0.842	0.850	0.877	0.887	4.54
8)	T	Diethyl Ether	0.240	0.239	0.236	0.215	0.224	0.237	0.232	4.42
9)	T	1,1,2-Trichlor...	0.484	0.486	0.479	0.437	0.429	0.445	0.460	5.57
10)	T	Methyl Iodide	0.404	0.503	0.518	0.538	0.547	0.562	0.512	11.09
11)	T	Tert butyl alc...	0.033	0.037	0.030	0.025	0.029	0.033	0.031	13.08
12)	CM	1,1-Dichloroet...	0.449	0.475	0.456	0.427	0.426	0.443	0.446	4.14#
13)	T	Acrolein	0.045	0.043	0.042	0.042	0.044	0.048	0.044	5.27
14)	T	Allyl chloride	0.540	0.555	0.546	0.526	0.535	0.560	0.544	2.33
15)	T	Acrylonitrile	0.088	0.093	0.086	0.082	0.088	0.095	0.089	5.52
16)	T	Acetone	0.128	0.117	0.094	0.084	0.085	0.089	0.100	18.67
17)	T	Carbon Disulfide	1.291	1.367	1.320	1.225	1.210	1.246	1.277	4.74
18)	T	Methyl Acetate	0.244	0.265	0.260	0.245	0.266	0.286	0.261	6.00
19)	T	Methyl tert-bu...	1.006	1.075	1.075	1.020	1.091	1.165	1.072	5.30
20)	T	Methylene Chlo...	0.625	0.634	0.576	0.458	0.463	0.473	0.538	15.41
21)	T	trans-1,2-Dich...	0.494	0.504	0.507	0.470	0.478	0.494	0.491	2.95
22)	T	Diisopropyl ether	1.107	1.238	1.255	1.163	1.195	1.257	1.202	4.95
23)	T	Vinyl Acetate	0.594	0.646	0.651	0.625	0.667	0.722	0.651	6.65
24)	P	1,1-Dichloroet...	0.800	0.835	0.827	0.759	0.765	0.792	0.796	3.90
25)	T	2-Butanone	0.133	0.134	0.115	0.105	0.115	0.126	0.122	9.56
26)	T	2,2-Dichloropr...	0.752	0.771	0.731	0.705	0.699	0.726	0.731	3.74
27)	T	cis-1,2-Dichlo...	0.542	0.584	0.582	0.542	0.563	0.591	0.567	3.81
28)	T	Bromochloromet...	0.332	0.323	0.320	0.267	0.270	0.273	0.297	10.22
29)	T	Tetrahydrofuran	0.066	0.070	0.067	0.064	0.070	0.078	0.069	7.25
30)	C	Chloroform	0.886	0.912	0.901	0.835	0.842	0.874	0.875	3.54#
31)	T	Cyclohexane	0.797	0.717	0.697	0.643	0.644	0.676	0.696	8.27
32)	T	1,1,1-Trichlor...	0.808	0.814	0.822	0.767	0.764	0.796	0.795	3.08
33)	S	1,2-Dichloroet...	0.455	0.436	0.429	0.392	0.392	0.405	0.418	6.21
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.311	0.314	0.317	0.298	0.299	0.303	0.307	2.62
36)	T	1,1-Dichloropr...	0.395	0.413	0.413	0.397	0.405	0.417	0.407	2.20
37)	T	Ethyl Acetate	0.148	0.162	0.163	0.150	0.164	0.179	0.161	6.94
38)	T	Carbon Tetrach...	0.483	0.501	0.504	0.481	0.487	0.503	0.493	2.14
39)	T	Methylcyclohexane	0.491	0.486	0.537	0.527	0.554	0.583	0.530	7.03
40)	TM	Benzene	1.253	1.302	1.322	1.259	1.281	1.312	1.288	2.22
41)	T	Methacrylonitrile	0.082	0.085	0.091	0.080	0.089	0.096	0.087	7.09
42)	TM	1,2-Dichloroet...	0.328	0.346	0.343	0.315	0.324	0.338	0.332	3.59
43)	T	Isopropyl Acetate	0.297	0.313	0.313	0.302	0.335	0.369	0.321	8.32
44)	TM	Trichloroethene	0.380	0.381	0.386	0.367	0.372	0.376	0.377	1.81
45)	C	1,2-Dichloropr...	0.276	0.289	0.292	0.274	0.283	0.293	0.285	2.89#
46)	T	Dibromomethane	0.172	0.182	0.183	0.173	0.181	0.188	0.180	3.43
47)	T	Bromodichlorom...	0.440	0.463	0.459	0.439	0.449	0.468	0.453	2.70
48)	T	Methyl methacr...	0.125	0.139	0.149	0.148	0.165	0.181	0.151	12.98
49)	T	1,4-Dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.002	10.06
50)	S	Toluene-d8	1.132	1.170	1.177	1.129	1.122	1.135	1.144	2.03
51)	T	4-Methyl-2-Pen...	0.141	0.159	0.161	0.159	0.180	0.196	0.166	11.55
52)	CM	Toluene	0.777	0.818	0.855	0.827	0.855	0.885	0.836	4.49#
53)	T	t-1,3-Dichloro...	0.357	0.380	0.390	0.385	0.415	0.438	0.394	7.24
54)	T	cis-1,3-Dichlo...	0.424	0.460	0.465	0.455	0.481	0.505	0.465	5.86
55)	T	1,1,2-Trichlor...	0.234	0.247	0.241	0.231	0.244	0.254	0.242	3.52
56)	T	Ethyl methacry...	0.219	0.248	0.262	0.279	0.321	0.345	0.279	16.80

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y100725S.M

57)	T	1,3-Dichloropr...	0.361	0.381	0.383	0.374	0.392	0.409	0.383	4.26
58)	T	2-Chloroethyl ...	0.093	0.112	0.112	0.129	0.145	0.159	0.125	19.35
59)	T	2-Hexanone	0.108	0.117	0.110	0.112	0.126	0.138	0.119	9.86
60)	T	Dibromochlorom...	0.319	0.337	0.340	0.327	0.347	0.365	0.339	4.69
61)	T	1,2-Dibromoethane	0.215	0.229	0.231	0.223	0.237	0.249	0.231	5.16
62)	S	4-Bromofluorob...	0.401	0.370	0.373	0.365	0.372	0.386	0.378	3.51
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.538	0.517	0.561	0.523	0.502	0.456	0.516	6.92
65)	PM	Chlorobenzene	1.086	1.095	1.092	1.053	1.083	1.116	1.087	1.89
66)	T	1,1,1,2-Tetrac...	0.388	0.389	0.390	0.373	0.384	0.402	0.388	2.44
67)	C	Ethyl Benzene	1.606	1.711	1.753	1.777	1.824	1.891	1.760	5.54#
68)	T	m/p-Xylenes	0.632	0.675	0.715	0.719	0.734	0.763	0.706	6.54
69)	T	o-Xylene	0.588	0.623	0.653	0.670	0.701	0.738	0.662	8.15
70)	T	Styrene	0.902	1.026	1.098	1.109	1.166	1.233	1.089	10.55
71)	P	Bromoform	0.225	0.242	0.238	0.230	0.244	0.262	0.240	5.41
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	2.967	3.153	3.353	3.317	3.425	3.555	3.295	6.30
74)	T	N-amyl acetate	0.477	0.535	0.556	0.581	0.665	0.738	0.592	15.95
75)	P	1,1,2,2-Tetrac...	0.530	0.548	0.502	0.499	0.543	0.611	0.539	7.60
76)	T	1,2,3-Trichlor...	0.406	0.399	0.484	0.433	0.455	0.469	0.441	7.76
77)	T	Bromobenzene	0.849	0.880	0.885	0.845	0.877	0.921	0.876	3.14
78)	T	n-propylbenzene	3.373	3.676	3.906	3.883	3.955	4.086	3.813	6.64
79)	T	2-Chlorotoluene	2.095	2.208	2.282	2.227	2.249	2.338	2.233	3.66
80)	T	1,3,5-Trimethy...	2.309	2.557	2.736	2.706	2.772	2.896	2.663	7.70
81)	T	trans-1,4-Dich...	0.171	0.175	0.176	0.169	0.185	0.203	0.180	7.04
82)	T	4-Chlorotoluene	2.173	2.266	2.362	2.276	2.316	2.404	2.300	3.52
83)	T	tert-Butylbenzene	2.199	2.363	2.465	2.522	2.533	2.668	2.458	6.55
84)	T	1,2,4-Trimethy...	2.301	2.552	2.701	2.706	2.782	2.903	2.657	7.86
85)	T	sec-Butylbenzene	3.175	3.388	3.571	3.583	3.664	3.778	3.527	6.08
86)	T	p-Isopropyltol...	2.575	2.804	3.032	3.087	3.183	3.334	3.003	9.09
87)	T	1,3-Dichlorobe...	1.667	1.698	1.718	1.657	1.701	1.794	1.706	2.85
88)	T	1,4-Dichlorobe...	1.703	1.703	1.694	1.624	1.653	1.732	1.685	2.33
89)	T	n-Butylbenzene	2.279	2.428	2.626	2.682	2.778	2.904	2.616	8.76
90)	T	Hexachloroethane	0.667	0.631	0.647	0.625	0.643	0.662	0.646	2.54
91)	T	1,2-Dichlorobe...	1.485	1.498	1.511	1.446	1.490	1.543	1.496	2.13
92)	T	1,2-Dibromo-3-...	0.087	0.093	0.083	0.083	0.088	0.096	0.088	6.18
93)	T	1,2,4-Trichlor...	0.846	0.867	0.901	0.918	1.007	1.054	0.932	8.75
94)	T	Hexachlorobuta...	0.590	0.571	0.572	0.577	0.587	0.590	0.581	1.52
95)	T	Naphthalene	1.206	1.281	1.346	1.466	1.722	1.887	1.485	17.98
96)	T	1,2,3-Trichlor...	0.719	0.753	0.795	0.793	0.866	0.920	0.808	9.14

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023384.D
Acq On : 07 Oct 2025 09:17
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 04:39:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	585717	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	882488	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	753398	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	378104	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	26670	5.258	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 10.520%#			
35) Dibromofluoromethane	7.634	113	27455	5.126	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 10.260%#			
50) Toluene-d8	10.103	98	99905	4.946	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 9.900%#			
62) 4-Bromofluorobenzene	12.401	95	35355	5.548	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 11.100%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	23245	5.038	ug/l	92
3) Chloromethane	2.074	50	30346	4.627	ug/l	94
4) Vinyl Chloride	2.202	62	38657	4.668	ug/l	95
5) Bromomethane	2.598	94	35214	5.184	ug/l	94
6) Chloroethane	2.732	64	25848	4.597	ug/l	98
7) Trichlorofluoromethane	3.055	101	51797	4.869	ug/l	98
8) Diethyl Ether	3.452	74	14079	5.060	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	28368	4.989	ug/l	99
10) Methyl Iodide	4.007	142	23692	3.606	ug/l	99
11) Tert butyl alcohol	4.854	59	9774	32.746	ug/l #	80
12) 1,1-Dichloroethene	3.787	96	26290	4.806	ug/l	94
13) Acrolein	3.653	56	13176	26.054	ug/l	100
14) Allyl chloride	4.385	41	31614	4.616	ug/l	98
15) Acrylonitrile	5.055	53	25891	23.754	ug/l	99
16) Acetone	3.866	43	37573	32.940	ug/l	96
17) Carbon Disulfide	4.104	76	75645	4.432	ug/l	99
18) Methyl Acetate	4.391	43	14279	4.926	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	58919	4.600	ug/l	95
20) Methylene Chloride	4.616	84	36598	5.917	ug/l	100
21) trans-1,2-Dichloroethene	5.110	96	28923	4.754	ug/l	99
22) Diisopropyl ether	6.018	45	64833	4.269	ug/l	94
23) Vinyl Acetate	5.964	43	173851	20.824	ug/l	99
24) 1,1-Dichloroethane	5.909	63	46850	4.679	ug/l	100
25) 2-Butanone	6.890	43	38990	27.656	ug/l	93
26) 2,2-Dichloropropane	6.884	77	44062	4.953	ug/l	98
27) cis-1,2-Dichloroethene	6.884	96	31743	4.600	ug/l	98
28) Bromochloromethane	7.244	49	19445	5.006	ug/l	99
29) Tetrahydrofuran	7.262	42	19296	23.059	ug/l	98
30) Chloroform	7.421	83	51887	4.806	ug/l	97
31) Cyclohexane	7.707	56	46675	5.279	ug/l #	79
32) 1,1,1-Trichloroethane	7.616	97	47305	4.881	ug/l	99
36) 1,1-Dichloropropene	7.835	75	34888	4.617	ug/l	98
37) Ethyl Acetate	6.982	43	13082	4.379	ug/l #	93
38) Carbon Tetrachloride	7.817	117	42654	4.859	ug/l	95
39) Methylcyclohexane	9.109	83	43329	4.479	ug/l	98
40) Benzene	8.079	78	110551	4.693	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023384.D
Acq On : 07 Oct 2025 09:17
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 08 04:39:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.225	41	7226m	4.658	ug/l		
42) 1,2-Dichloroethane	8.158	62	28940	4.828	ug/l		100
43) Isopropyl Acetate	8.201	43	26166	4.503	ug/l		99
44) Trichloroethene	8.859	130	33564	5.077	ug/l		99
45) 1,2-Dichloropropane	9.140	63	24358	4.595	ug/l		92
46) Dibromomethane	9.231	93	15179	4.682	ug/l		97
47) Bromodichloromethane	9.420	83	38813	4.756	ug/l		93
48) Methyl methacrylate	9.219	41	11038	4.071	ug/l		98
49) 1,4-Dioxane	9.219	88	3255	96.953	ug/l	#	86
51) 4-Methyl-2-Pentanone	9.999	43	62279	20.925	ug/l		98
52) Toluene	10.170	92	68550	4.585	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	31477	4.491	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	37392	4.463	ug/l		96
55) 1,1,2-Trichloroethane	10.572	97	20641	4.786	ug/l		97
56) Ethyl methacrylate	10.438	69	19324	3.891	ug/l		94
57) 1,3-Dichloropropane	10.719	76	31831	4.560	ug/l		96
58) 2-Chloroethyl Vinyl ether	9.713	63	41054m	18.894	ug/l		
59) 2-Hexanone	10.761	43	47778	23.185	ug/l		97
60) Dibromochloromethane	10.908	129	28135	4.783	ug/l		97
61) 1,2-Dibromoethane	11.017	107	18957	4.673	ug/l		97
64) Tetrachloroethene	10.646	164	40570	5.383	ug/l		98
65) Chlorobenzene	11.444	112	81802	4.997	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	29222	5.075	ug/l		97
67) Ethyl Benzene	11.517	91	121005	4.529	ug/l		99
68) m/p-Xylenes	11.633	106	95176	8.887	ug/l		100
69) o-Xylene	11.956	106	44280	4.466	ug/l		98
70) Styrene	11.969	104	67960	4.152	ug/l		99
71) Bromoform	12.133	173	16988	4.929	ug/l	#	99
73) Isopropylbenzene	12.255	105	112194	4.455	ug/l		99
74) N-amyl acetate	12.066	43	18041	3.833	ug/l	#	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	20052	4.773	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	15359m	4.118	ug/l		
77) Bromobenzene	12.529	156	32106	4.967	ug/l		99
78) n-propylbenzene	12.596	91	127521	4.305	ug/l		99
79) 2-Chlorotoluene	12.676	91	79199	4.631	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	87297	4.264	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	6474	4.680	ug/l		98
82) 4-Chlorotoluene	12.779	91	82155	4.600	ug/l		100
83) tert-Butylbenzene	12.999	119	83151	4.457	ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	86988	4.294	ug/l		99
85) sec-Butylbenzene	13.176	105	120061	4.443	ug/l		99
86) p-Isopropyltoluene	13.291	119	97377	4.264	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	63027	4.936	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	64389	5.085	ug/l		95
89) n-Butylbenzene	13.615	91	86179	4.274	ug/l		99
90) Hexachloroethane	13.877	117	25204	5.084	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	56167	5.041	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	3305	4.964	ug/l		95
93) 1,2,4-Trichlorobenzene	14.919	180	32000	4.875	ug/l		99
94) Hexachlorobutadiene	15.023	225	22316	5.456	ug/l		99
95) Naphthalene	15.145	128	45598	4.360	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	27176	4.772	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023384.D
Acq On : 07 Oct 2025 09:17
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:39:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

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

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

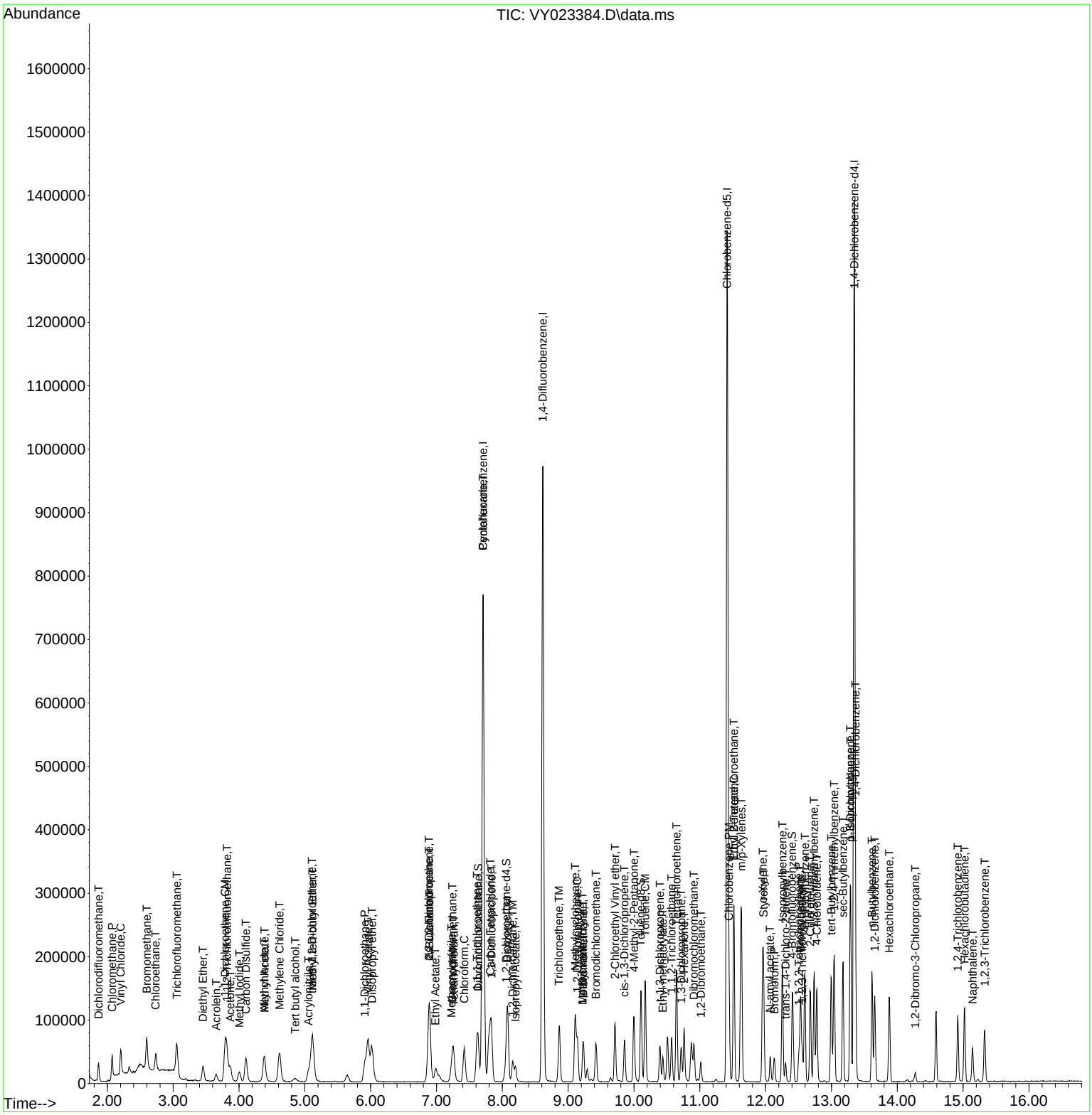
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Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

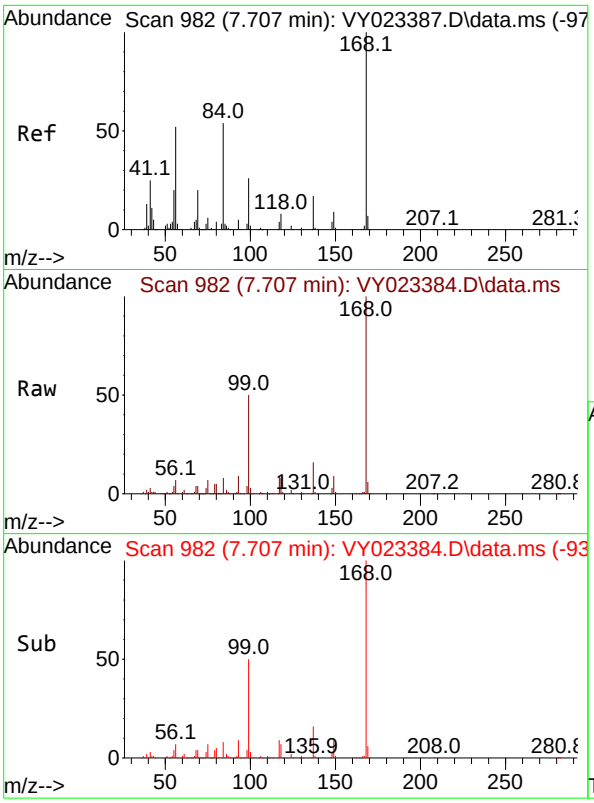
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Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

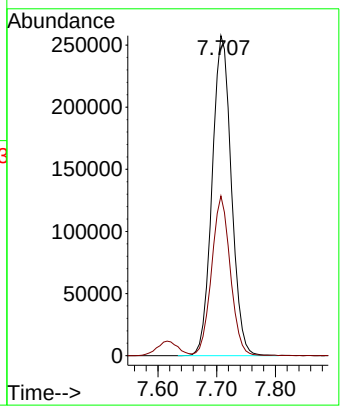




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:168 Resp: 58571

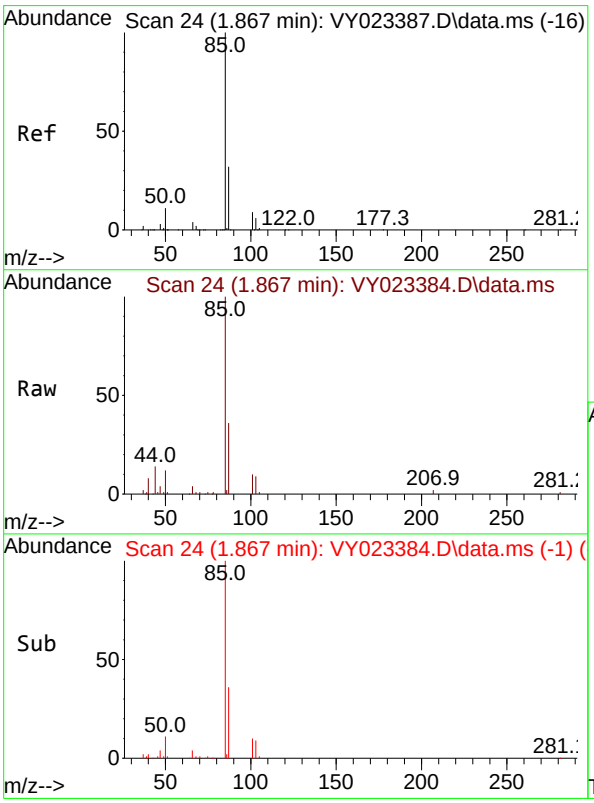
Ion	Ratio	Lower	Upper
168	100		
99	49.8	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

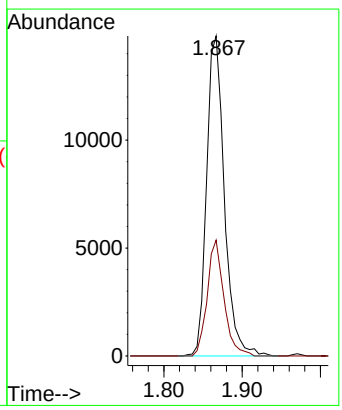
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

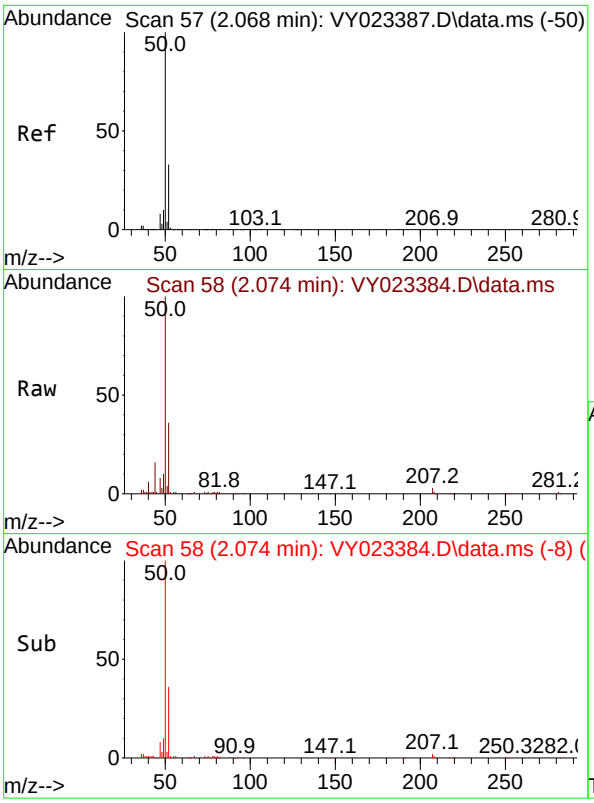


#2
Dichlorodifluoromethane
Concen: 5.038 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 85 Resp: 23245

Ion	Ratio	Lower	Upper
85	100		
87	36.2	16.0	47.9

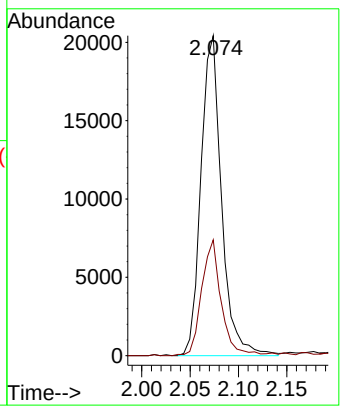




#3
Chloromethane
Concen: 4.627 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 50 Resp: 3034

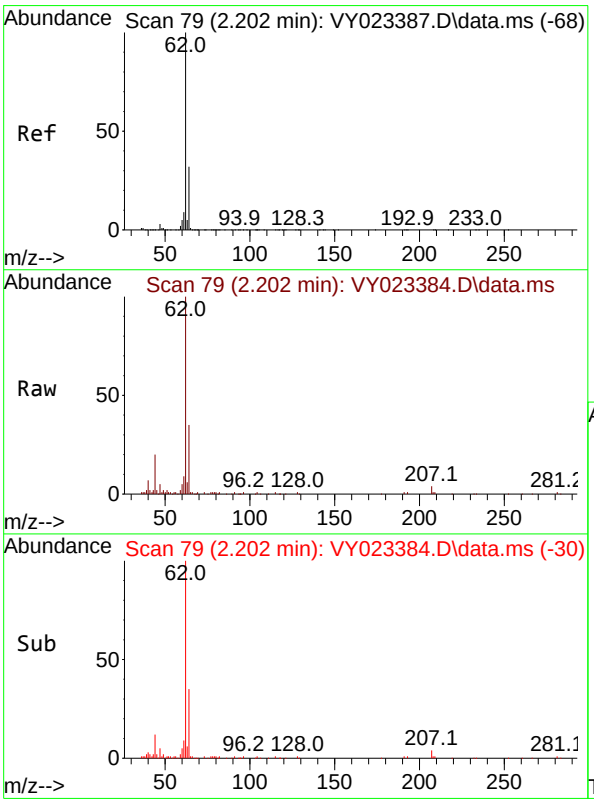
Ion	Ratio	Lower	Upper
50	100		
52	35.8	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

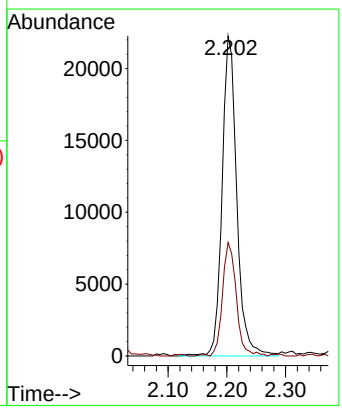
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

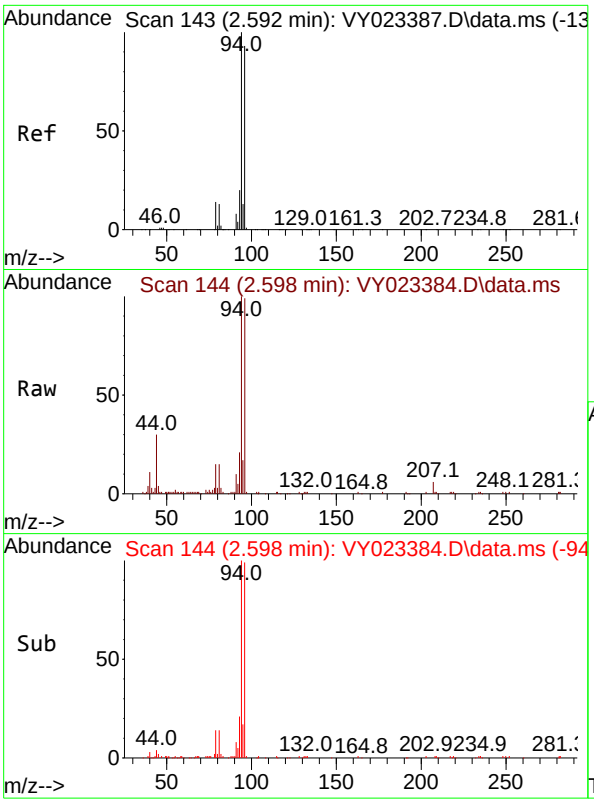


#4
Vinyl Chloride
Concen: 4.668 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 62 Resp: 38657

Ion	Ratio	Lower	Upper
62	100		
64	35.0	25.8	38.8

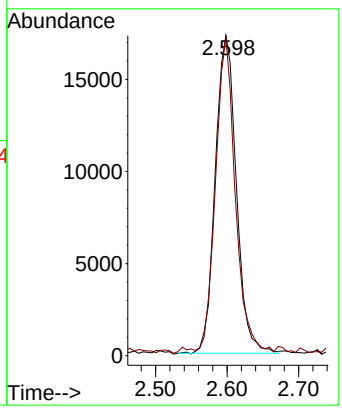




#5
Bromomethane
Concen: 5.184 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 94 Resp: 3521

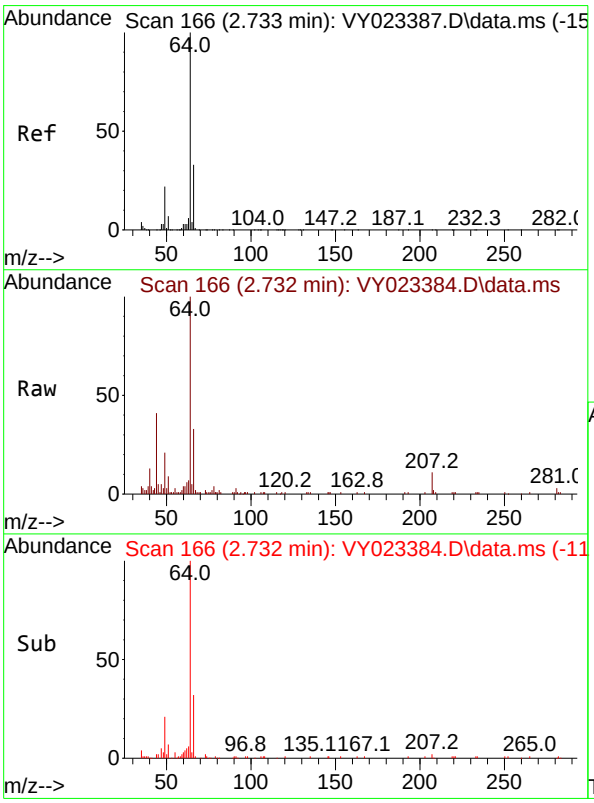
Ion	Ratio	Lower	Upper
94	100		
96	99.0	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

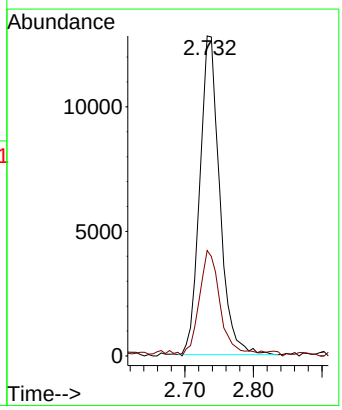
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

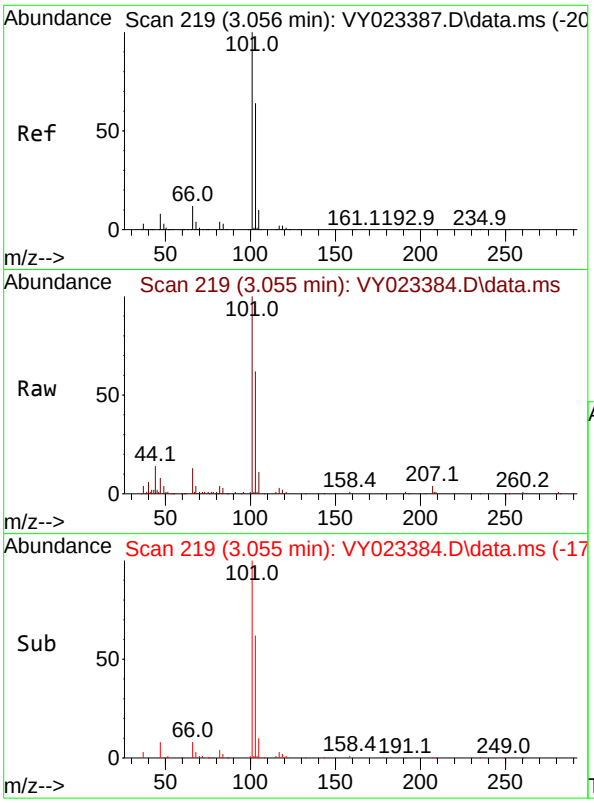


#6
Chloroethane
Concen: 4.597 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 64 Resp: 25848

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.2	39.4

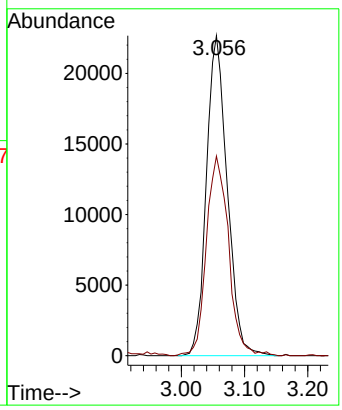




#7
Trichlorofluoromethane
Concen: 4.869 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:101 Resp: 5179

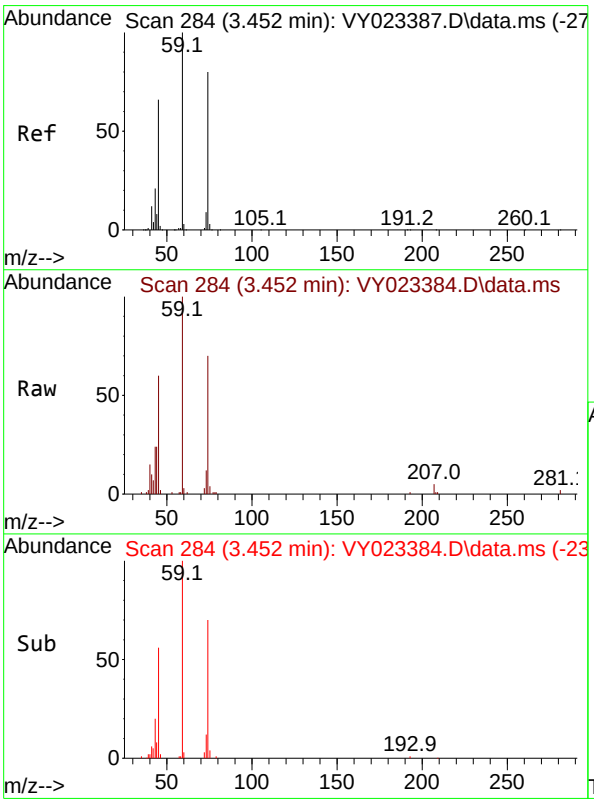
Ion	Ratio	Lower	Upper
101	100		
103	62.4	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

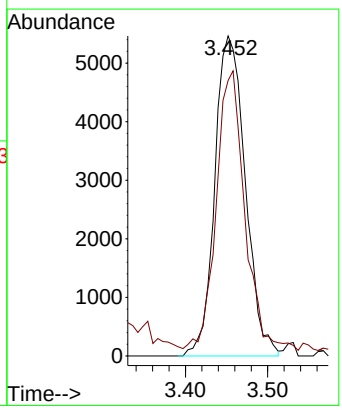
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

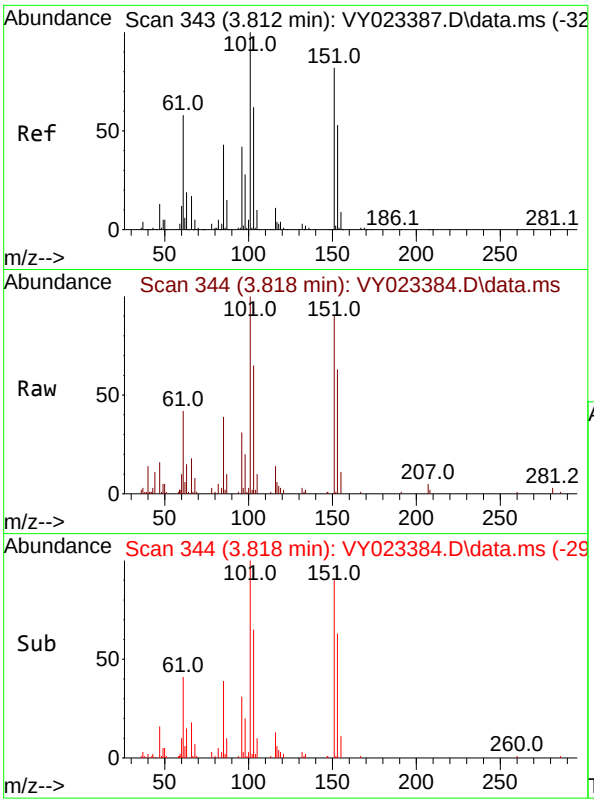


#8
Diethyl Ether
Concen: 5.060 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 74 Resp: 14079

Ion	Ratio	Lower	Upper
74	100		
45	82.9	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.989 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

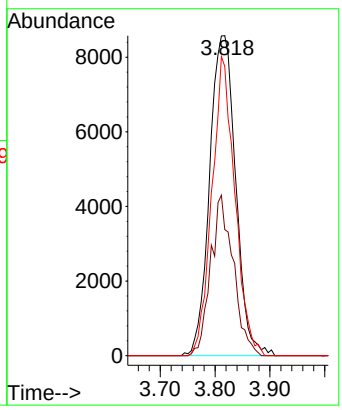
Tgt Ion:101 Resp: 2836

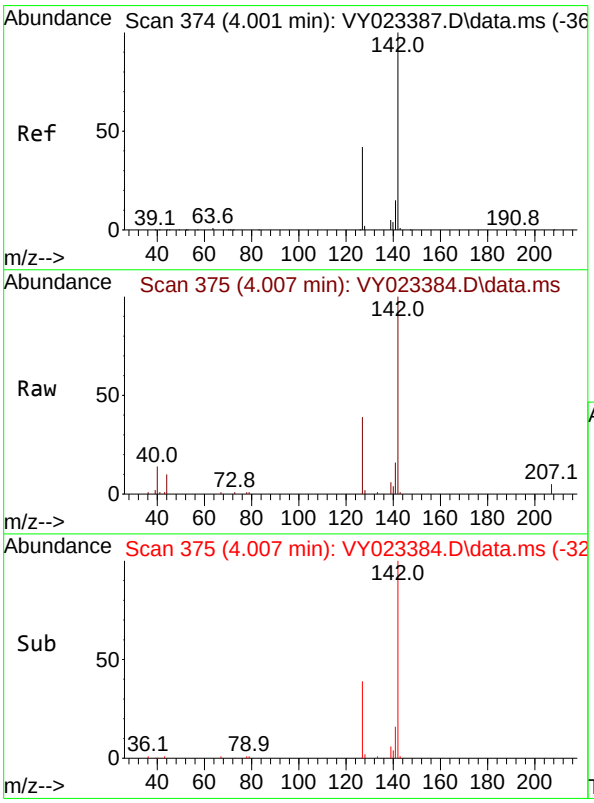
Ion	Ratio	Lower	Upper
101	100		
85	43.5	34.6	51.8
151	82.3	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

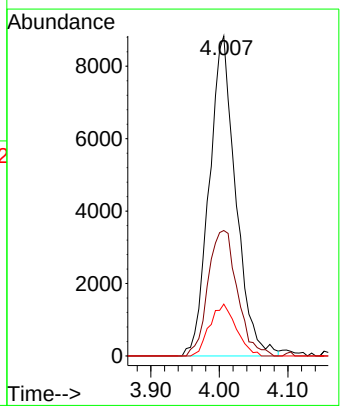


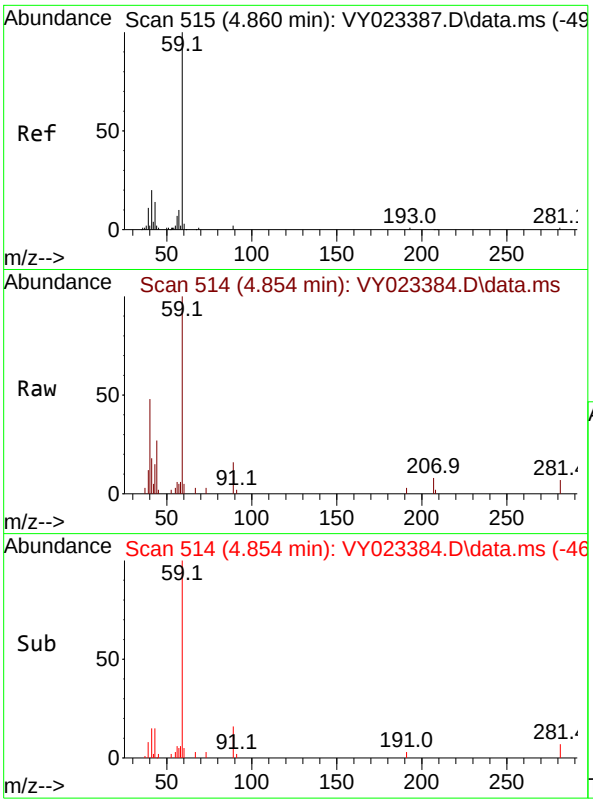


#10
Methyl Iodide
Concen: 3.606 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:142 Resp: 23692

Ion	Ratio	Lower	Upper
142	100		
127	43.3	34.8	52.2
141	16.2	11.6	17.4

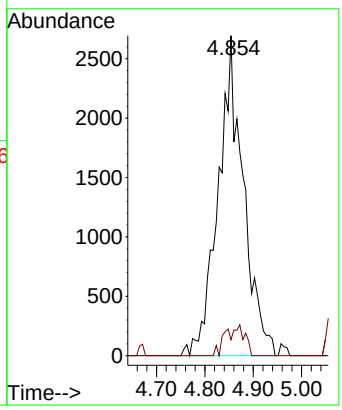




#11
Tert butyl alcohol
Concen: 32.746 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 59 Resp: 977

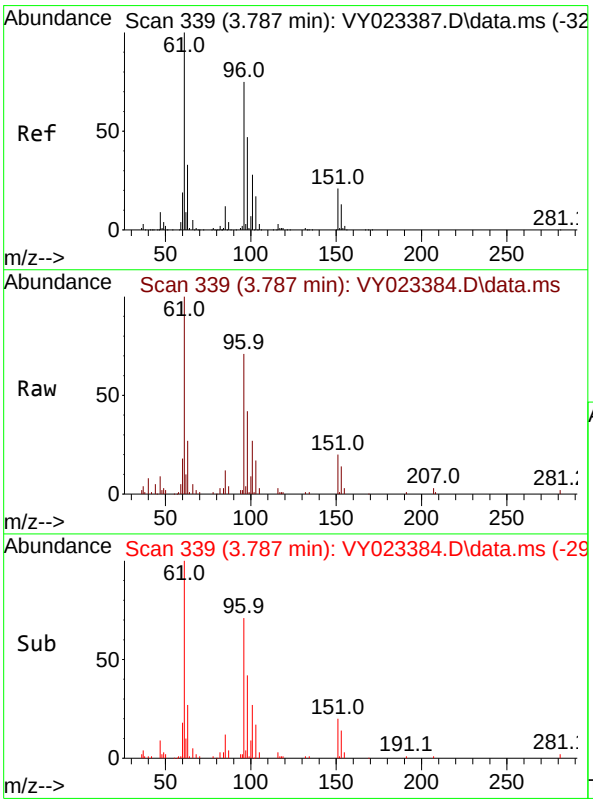
Ion	Ratio	Lower	Upper
59	100		
57	3.0	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

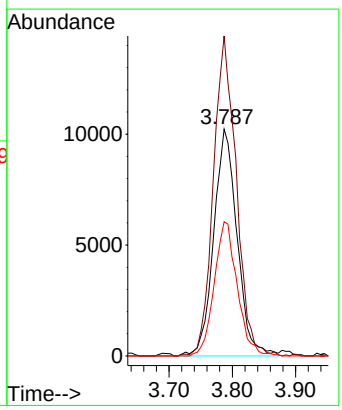
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

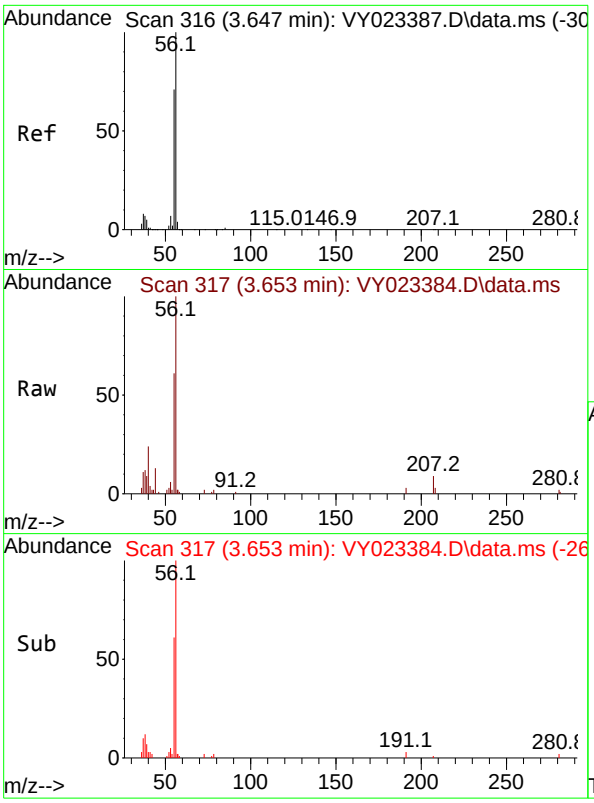


#12
1,1-Dichloroethene
Concen: 4.806 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 96 Resp: 26290

Ion	Ratio	Lower	Upper
96	100		
61	141.0	106.7	160.1
98	59.1	50.2	75.4

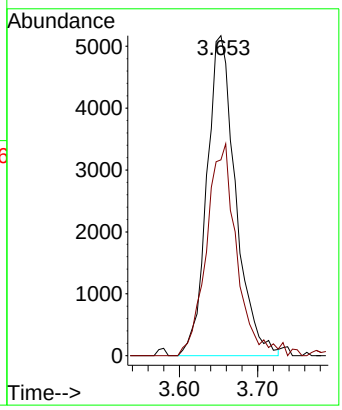




#13
Acrolein
Concen: 26.054 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 56 Resp: 1317

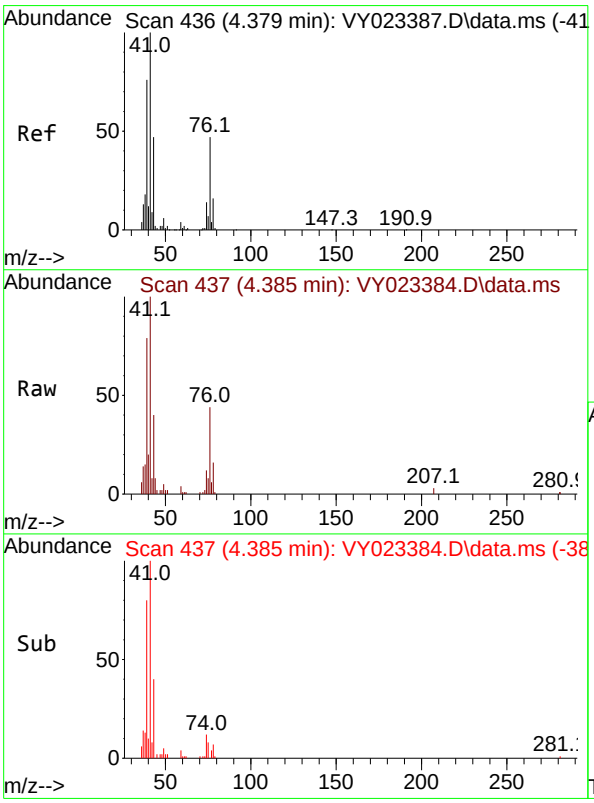
Ion	Ratio	Lower	Upper
56	100		
55	70.1	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

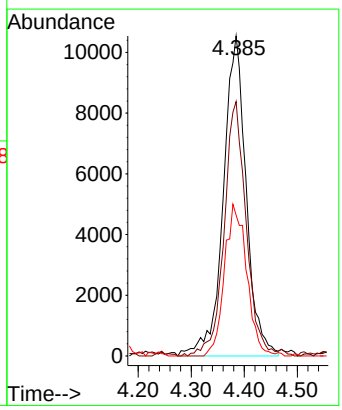
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

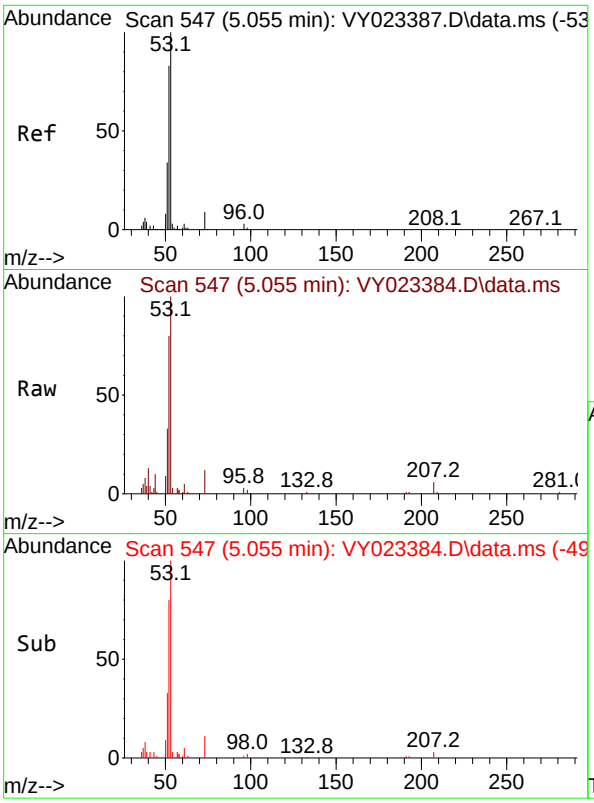


#14
Allyl chloride
Concen: 4.616 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 41 Resp: 31614

Ion	Ratio	Lower	Upper
41	100		
39	76.6	59.9	89.9
76	46.2	38.0	57.0

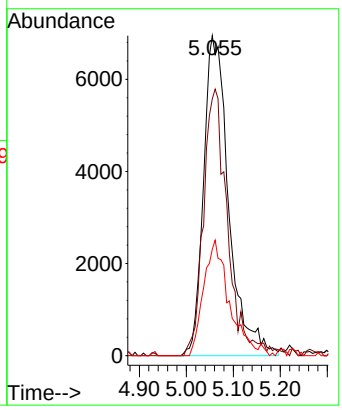




#15
Acrylonitrile
Concen: 23.754 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 53 Resp: 2589

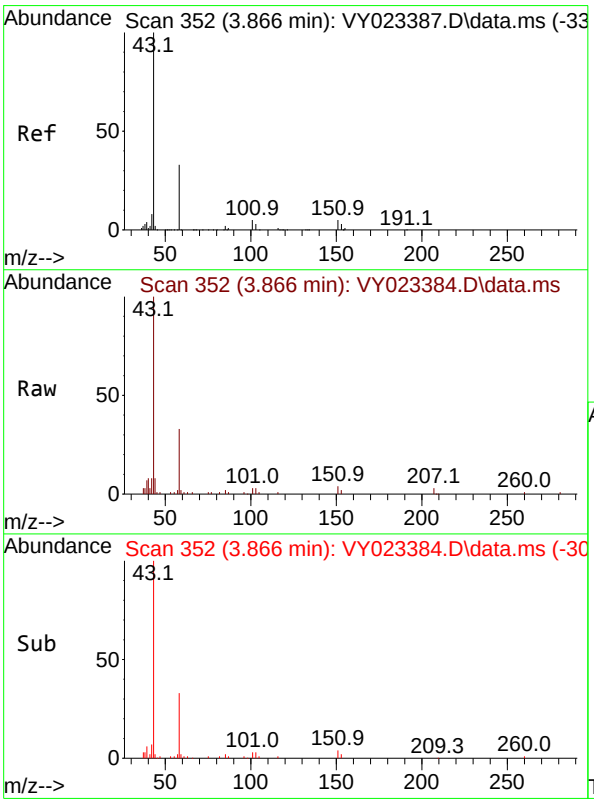
Ion	Ratio	Lower	Upper
53	100		
52	79.7	64.6	97.0
51	36.3	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

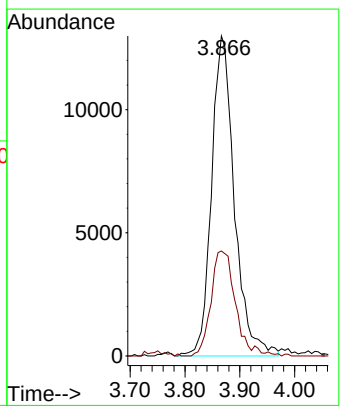
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

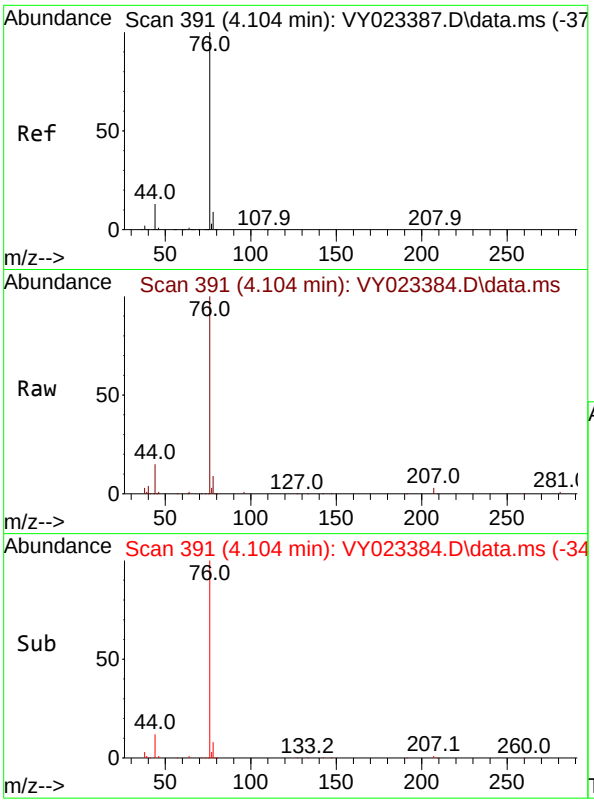


#16
Acetone
Concen: 32.940 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 37573

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.7	41.5

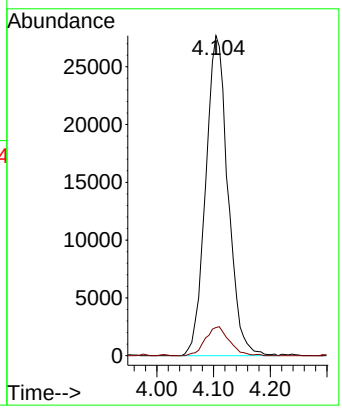




#17
Carbon Disulfide
Concen: 4.432 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 76 Resp: 7564

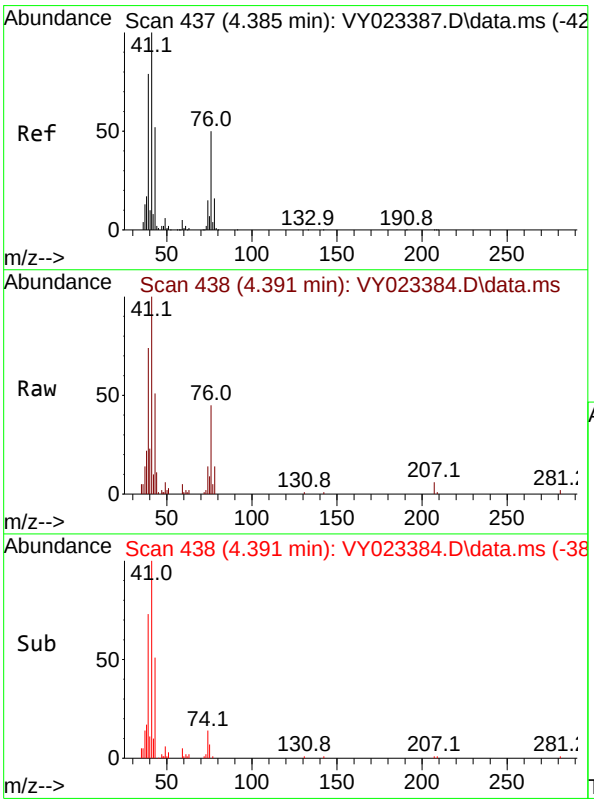
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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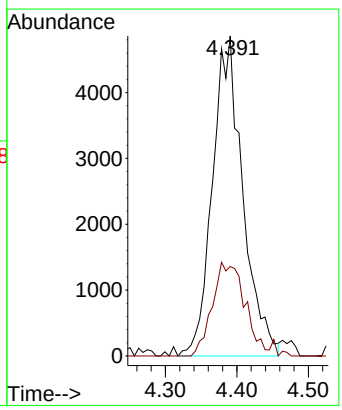
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

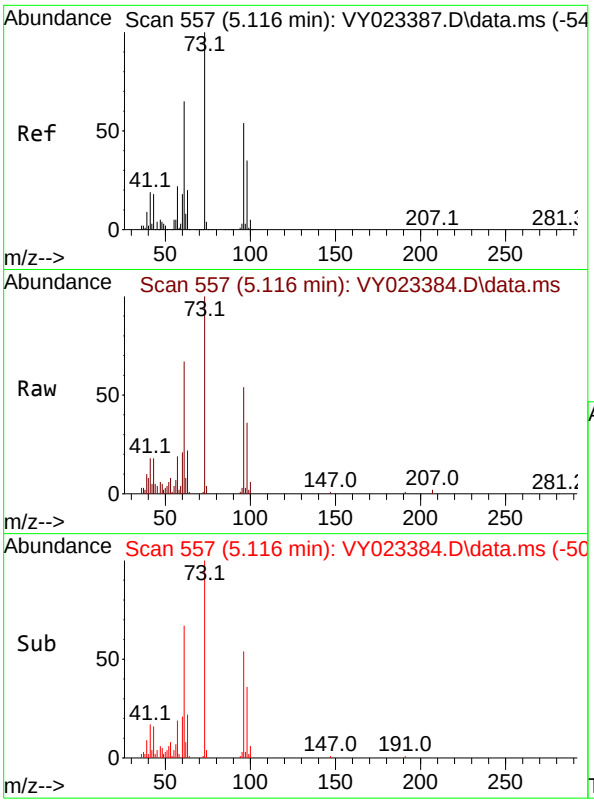


#18
Methyl Acetate
Concen: 4.926 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 14279

Ion	Ratio	Lower	Upper
43	100		
74	31.4	24.2	36.4

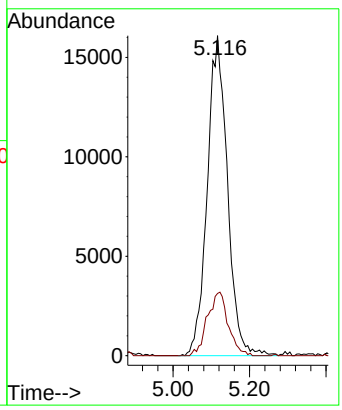




#19
Methyl tert-butyl Ether
Concen: 4.600 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 73 Resp: 5891

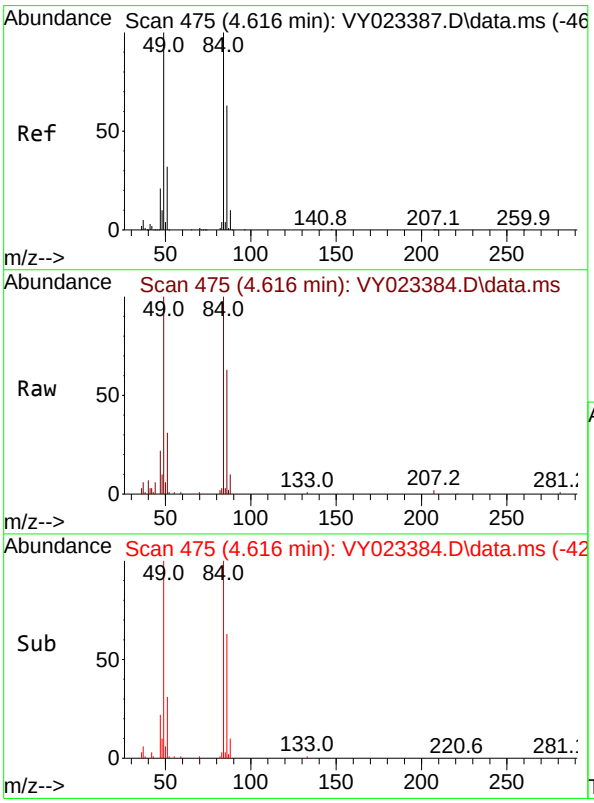
Ion	Ratio	Lower	Upper
73	100		
57	19.4	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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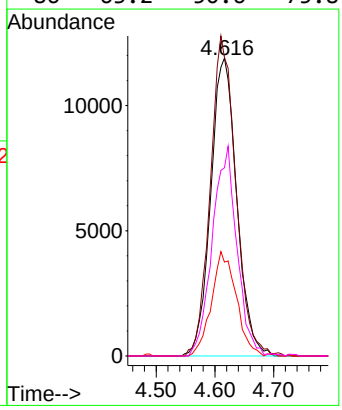
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

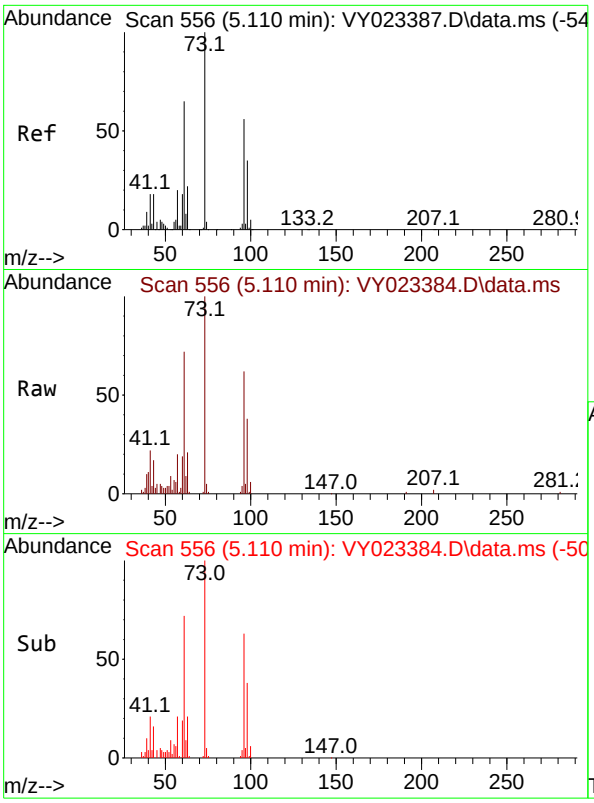


#20
Methylene Chloride
Concen: 5.917 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 84 Resp: 36598

Ion	Ratio	Lower	Upper
84	100		
49	100.3	80.2	120.4
51	31.6	25.9	38.9
86	63.2	50.6	75.8

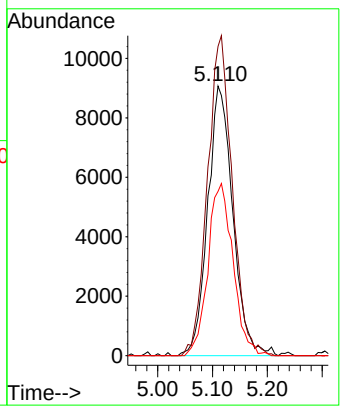




#21
trans-1,2-Dichloroethene
Concen: 4.754 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 96 Resp: 2892

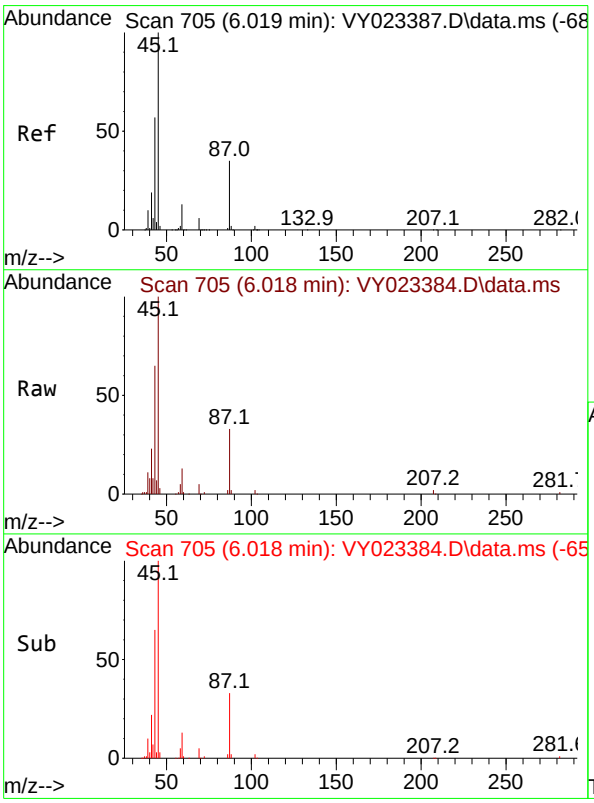
Ion	Ratio	Lower	Upper
96	100		
61	114.7	92.7	139.1
98	61.0	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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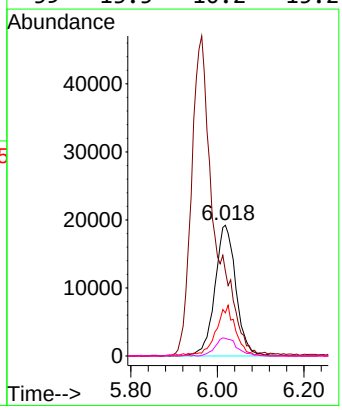
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

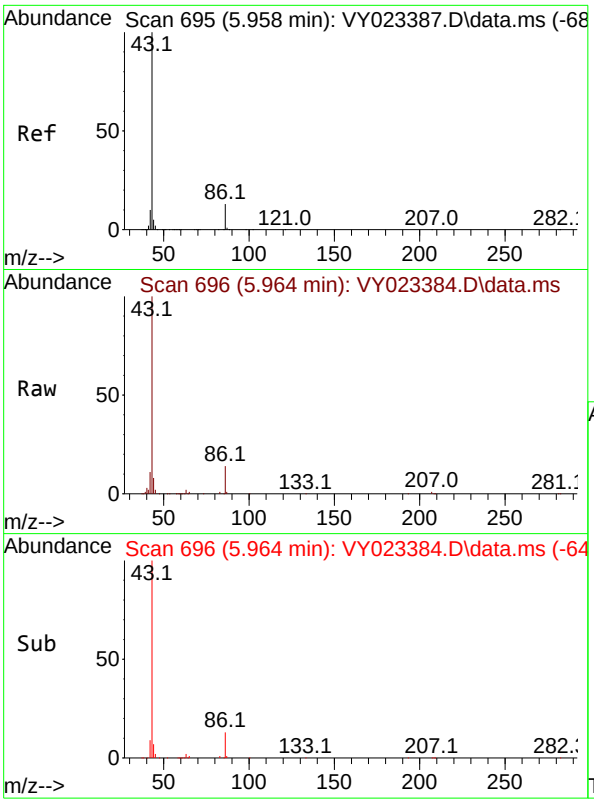


#22
Diisopropyl ether
Concen: 4.269 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 45 Resp: 64833

Ion	Ratio	Lower	Upper
45	100		
43	63.0	45.6	68.4
87	32.9	28.1	42.1
59	13.5	10.2	15.2





#23
Vinyl Acetate
Concen: 20.824 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

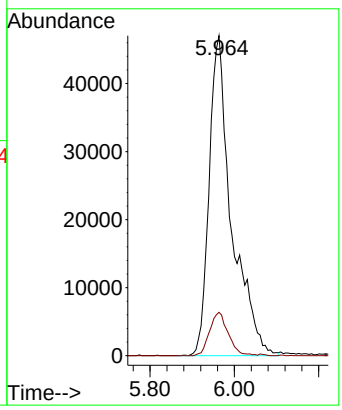
Tgt Ion: 43 Resp: 17385

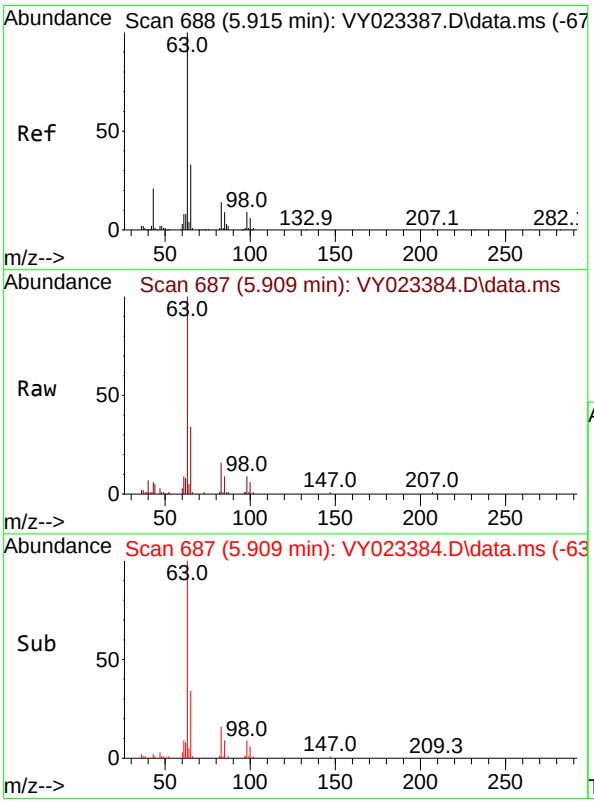
Ion	Ratio	Lower	Upper
43	100		
86	13.6	10.6	15.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

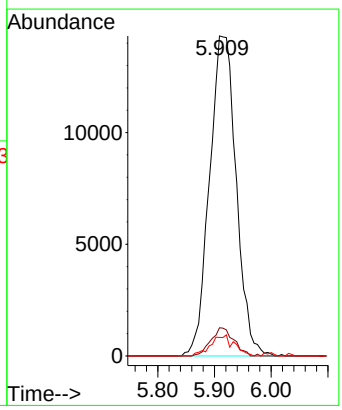


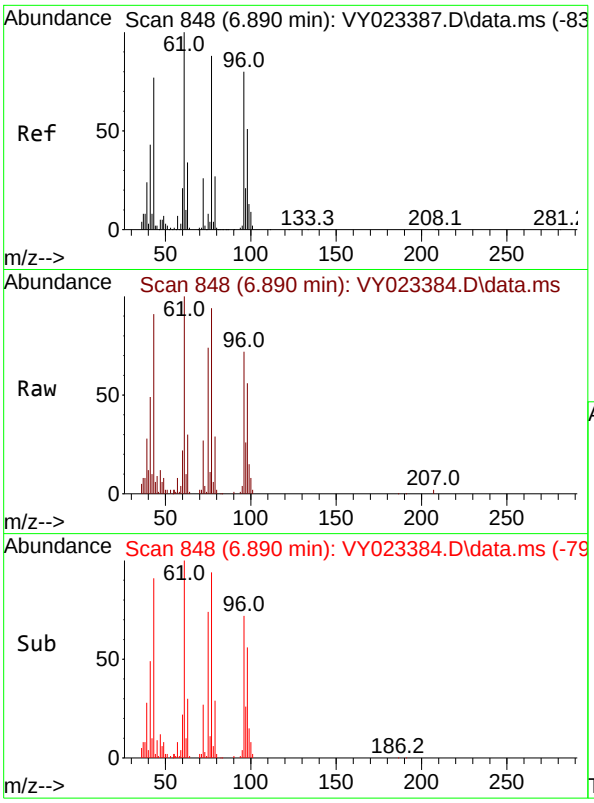


#24
1,1-Dichloroethane
Concen: 4.679 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 63 Resp: 46850

Ion	Ratio	Lower	Upper
63	100		
98	8.8	4.3	13.1
100	5.8	2.8	8.4





#25
2-Butanone
Concen: 27.656 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

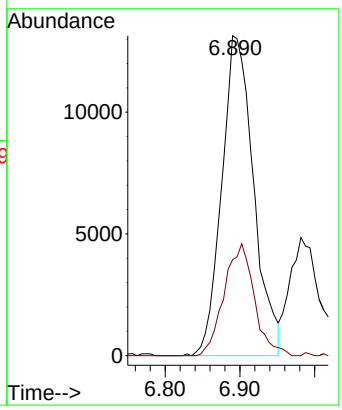
Tgt Ion: 43 Resp: 3899

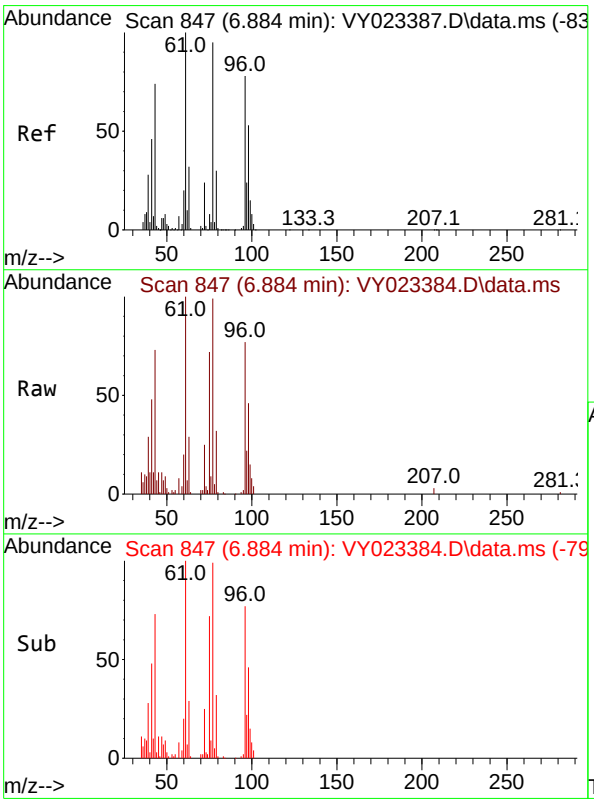
Ion	Ratio	Lower	Upper
43	100		
72	30.0	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

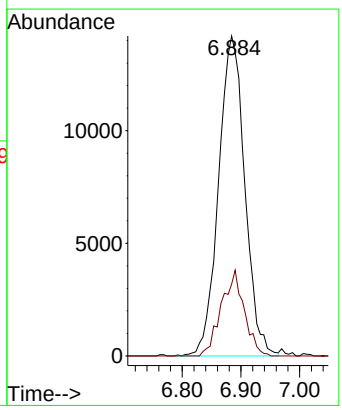


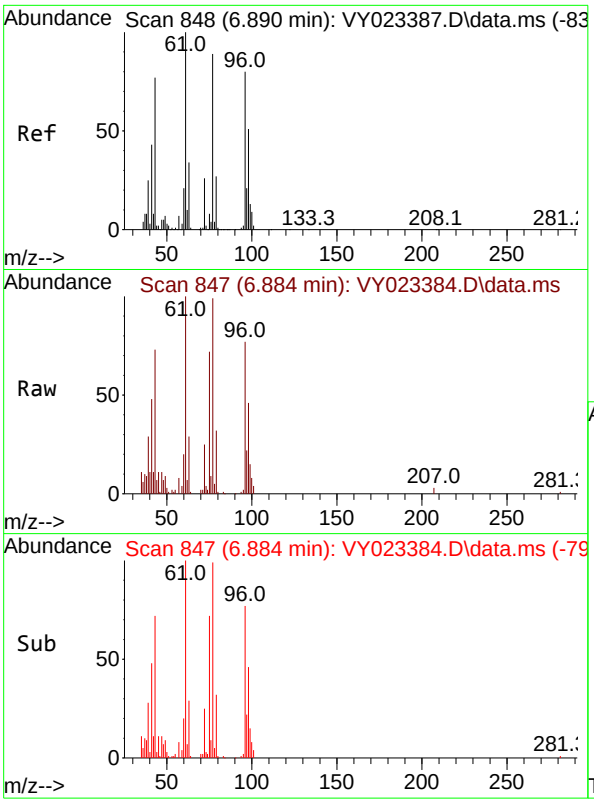


#26
2,2-Dichloropropane
Concen: 4.953 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 77 Resp: 44062

Ion	Ratio	Lower	Upper
77	100		
97	23.4	12.1	36.3

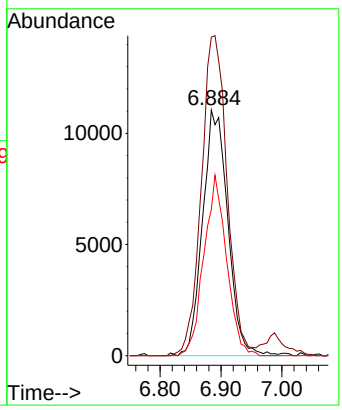




#27
cis-1,2-Dichloroethene
Concen: 4.600 ug/l
RT: 6.884 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 96 Resp: 3174

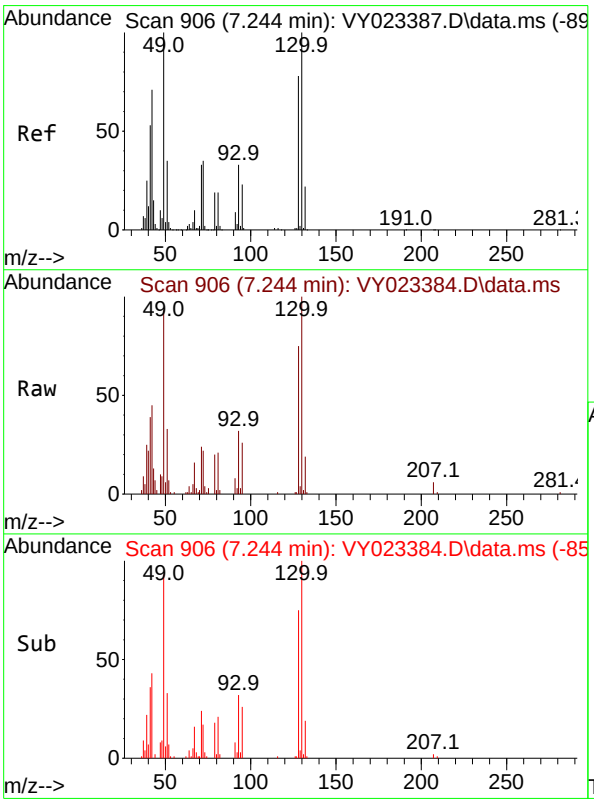
Ion	Ratio	Lower	Upper
96	100		
61	133.3	0.0	258.2
98	66.1	0.0	132.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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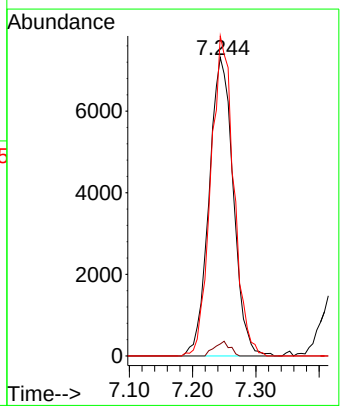
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

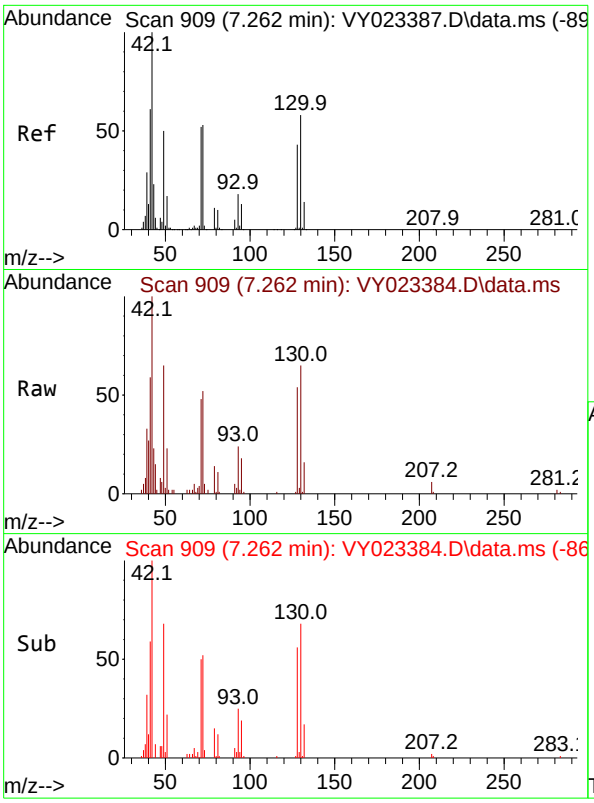


#28
Bromochloromethane
Concen: 5.006 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 49 Resp: 19445

Ion	Ratio	Lower	Upper
49	100		
129	3.1	0.0	5.6
130	101.5	81.9	122.9

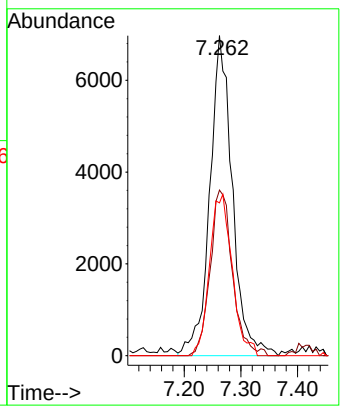




#29
Tetrahydrofuran
Concen: 23.059 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 42 Resp: 1929(

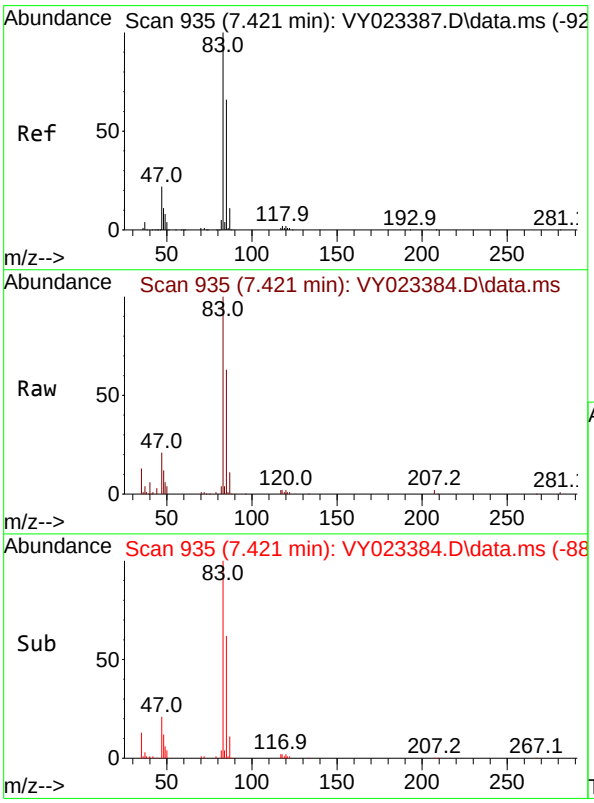
Ion	Ratio	Lower	Upper
42	100		
72	51.0	43.0	64.6
71	50.4	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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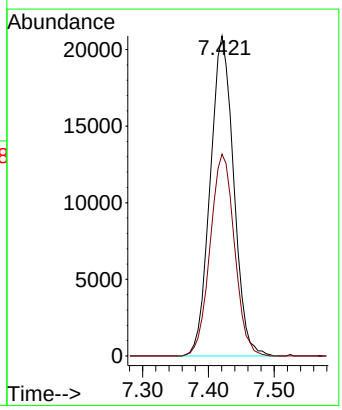
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

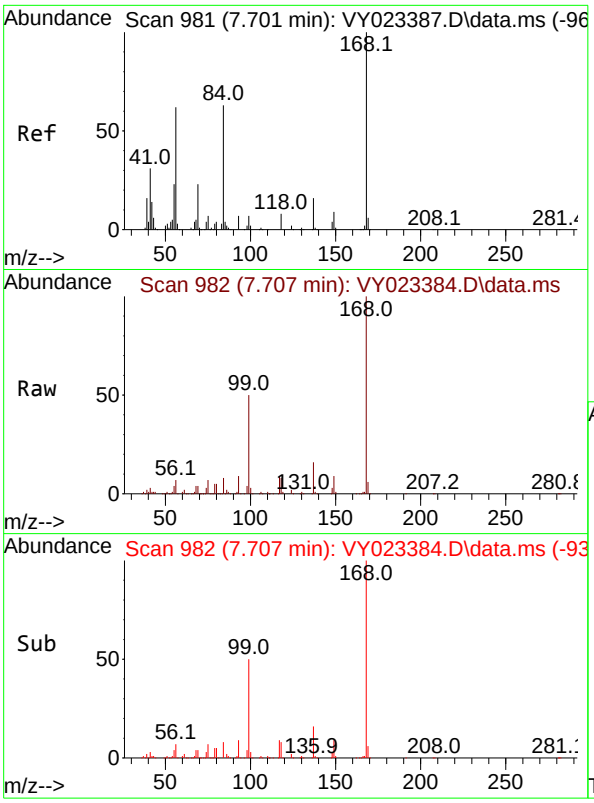


#30
Chloroform
Concen: 4.806 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 83 Resp: 51887

Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.5	78.7

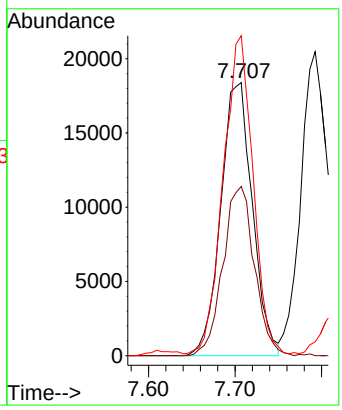




#31
Cyclohexane
Concen: 5.279 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 56 Resp: 4667

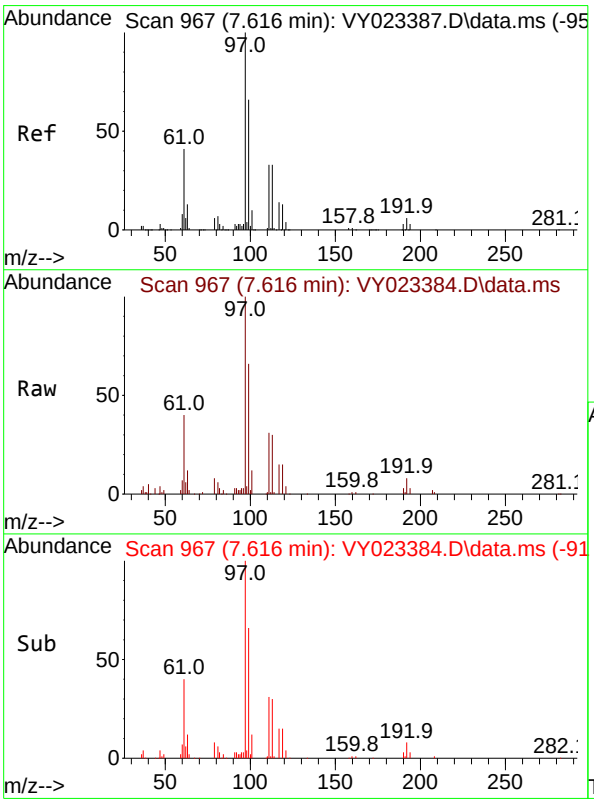
Ion	Ratio	Lower	Upper
56	100		
69	62.0	30.0	45.0
84	115.8	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

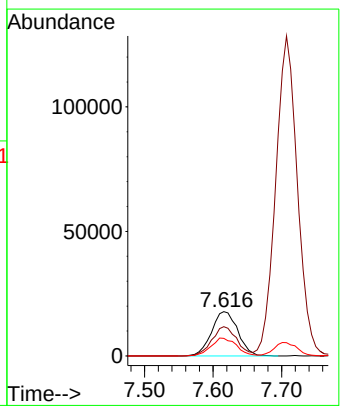
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

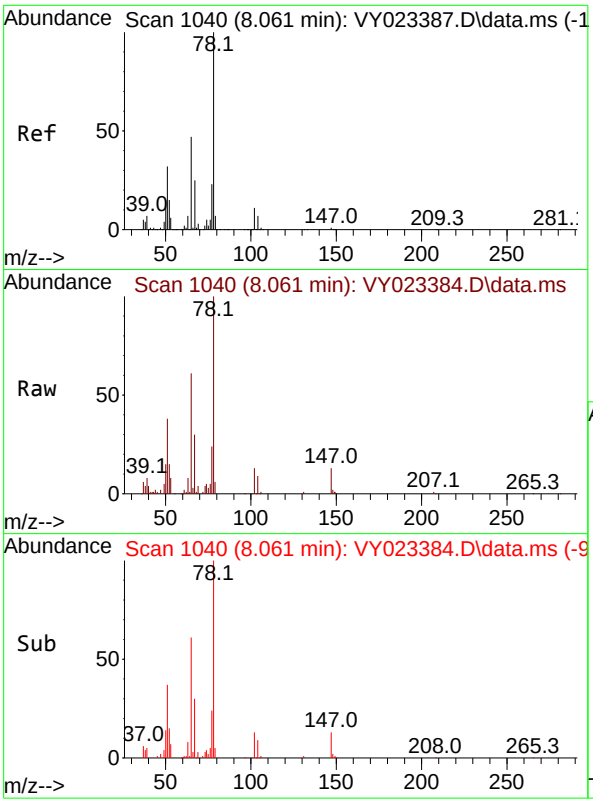


#32
1,1,1-Trichloroethane
Concen: 4.881 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 97 Resp: 47305

Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.4	77.2
61	39.4	31.9	47.9

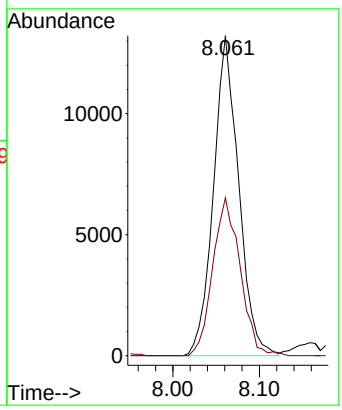




#33
1,2-Dichloroethane-d4
Concen: 5.258 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 65 Resp: 2667

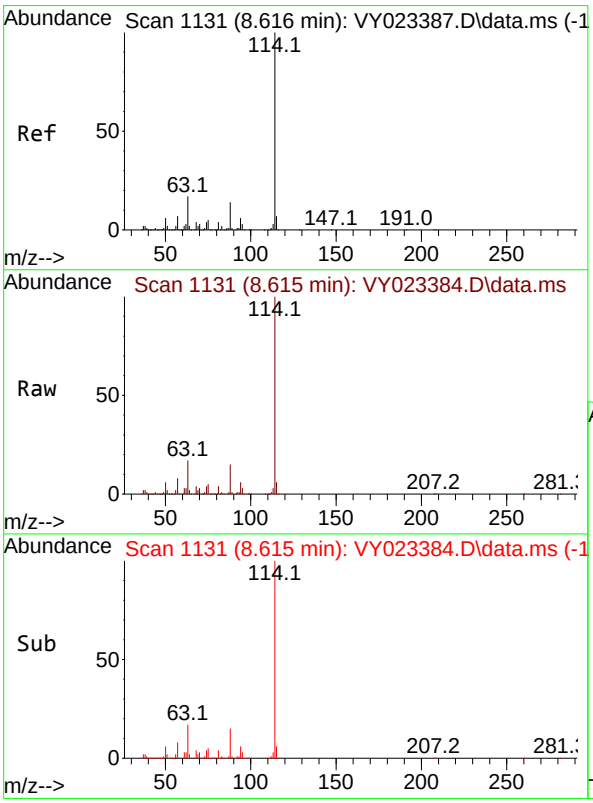
Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

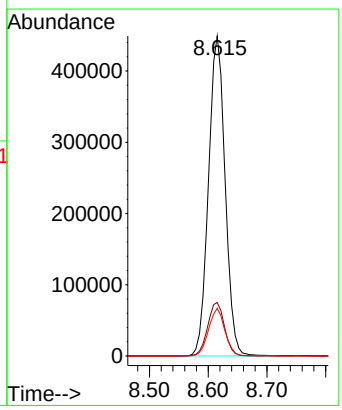
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

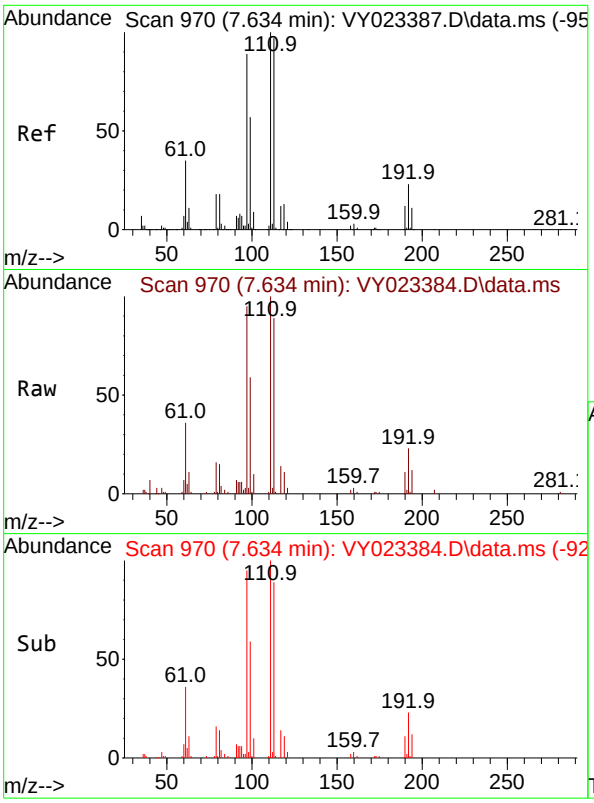


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:114 Resp: 882488

Ion	Ratio	Lower	Upper
114	100		
63	16.7	0.0	34.2
88	14.9	0.0	28.4

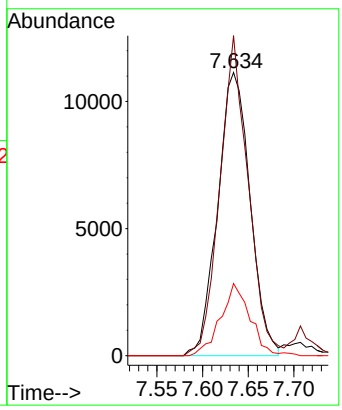




#35
Dibromofluoromethane
Concen: 5.126 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:113 Resp: 2745

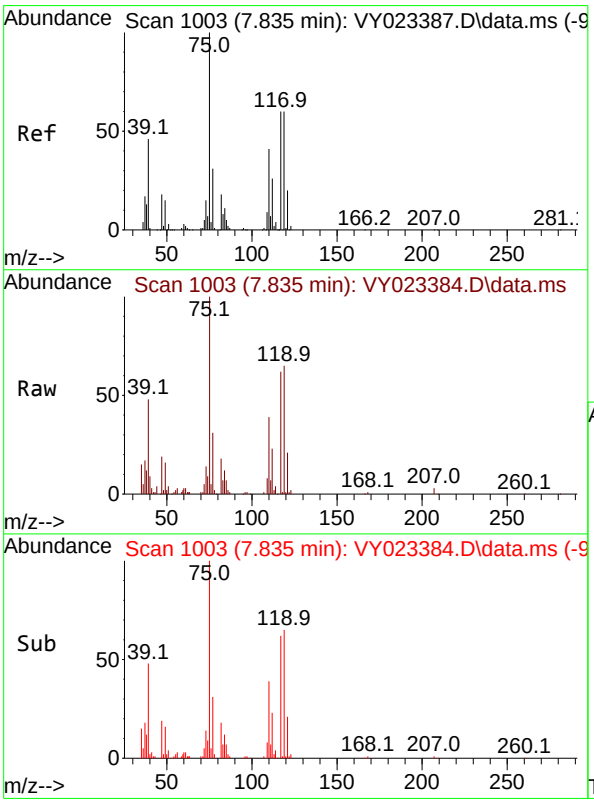
Ion	Ratio	Lower	Upper
113	100		
111	99.0	81.8	122.6
192	23.4	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

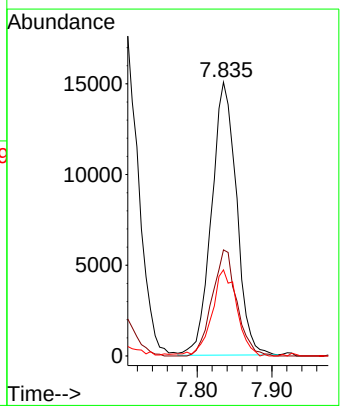
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

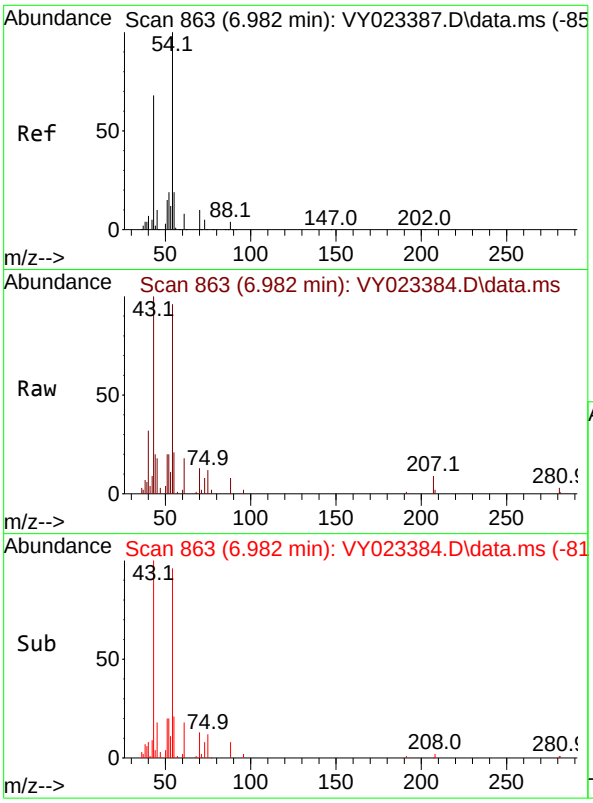


#36
1,1-Dichloropropene
Concen: 4.617 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 34888

Ion	Ratio	Lower	Upper
75	100		
110	38.3	19.9	59.7
77	32.1	25.0	37.6





#37
Ethyl Acetate
Concen: 4.379 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

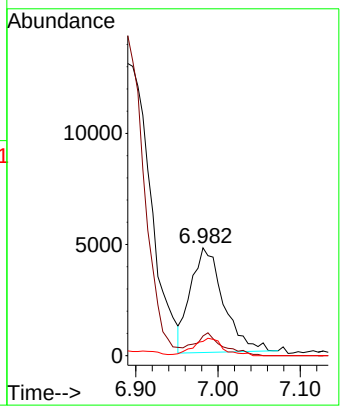
Tgt Ion: 43 Resp: 1308

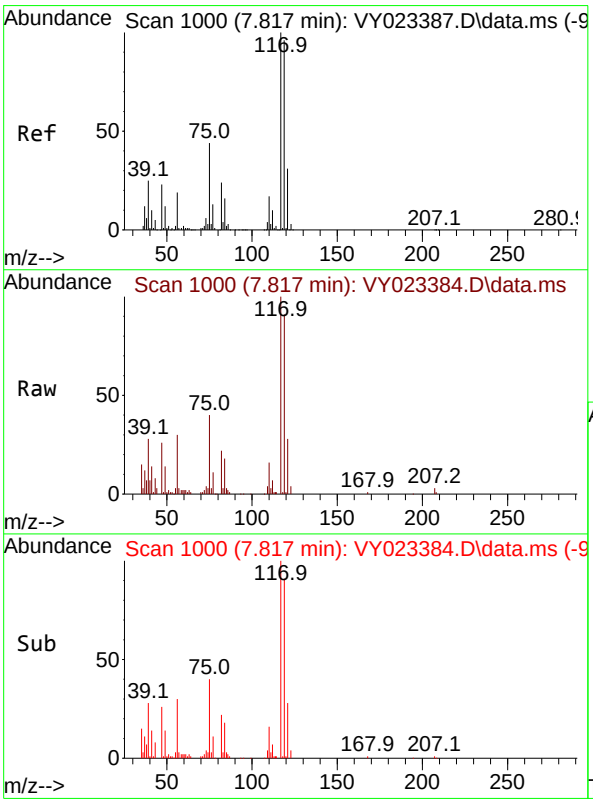
Ion	Ratio	Lower	Upper
43	100		
61	18.2	11.8	17.8
70	15.0	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

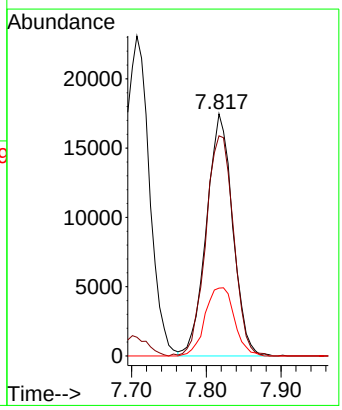


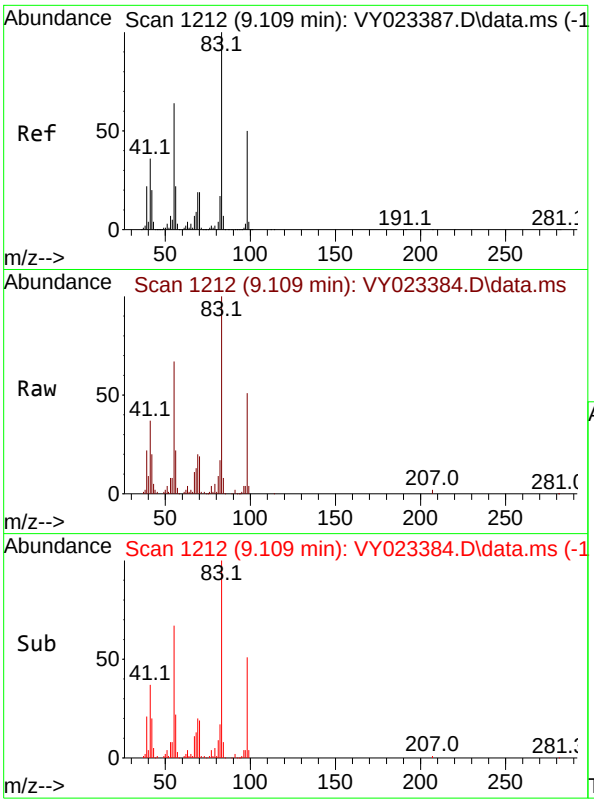


#38
Carbon Tetrachloride
Concen: 4.859 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:117 Resp: 42654

Ion	Ratio	Lower	Upper
117	100		
119	91.0	76.8	115.2
121	28.0	24.5	36.7

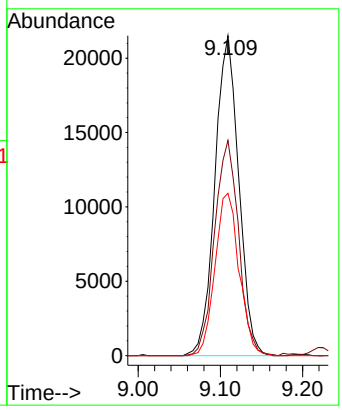




#39
Methylcyclohexane
Concen: 4.479 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 83 Resp: 4332

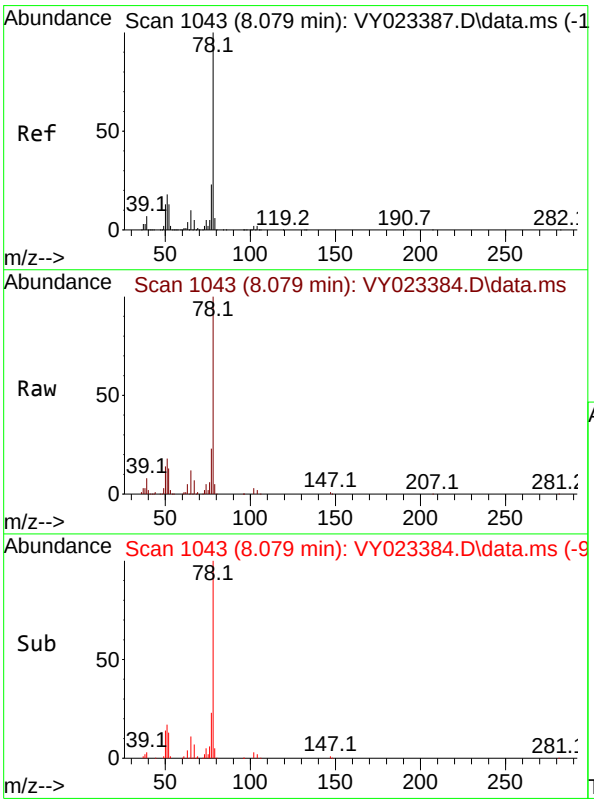
Ion	Ratio	Lower	Upper
83	100		
55	67.2	51.4	77.2
98	50.8	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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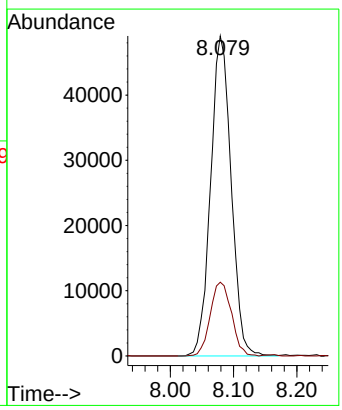
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

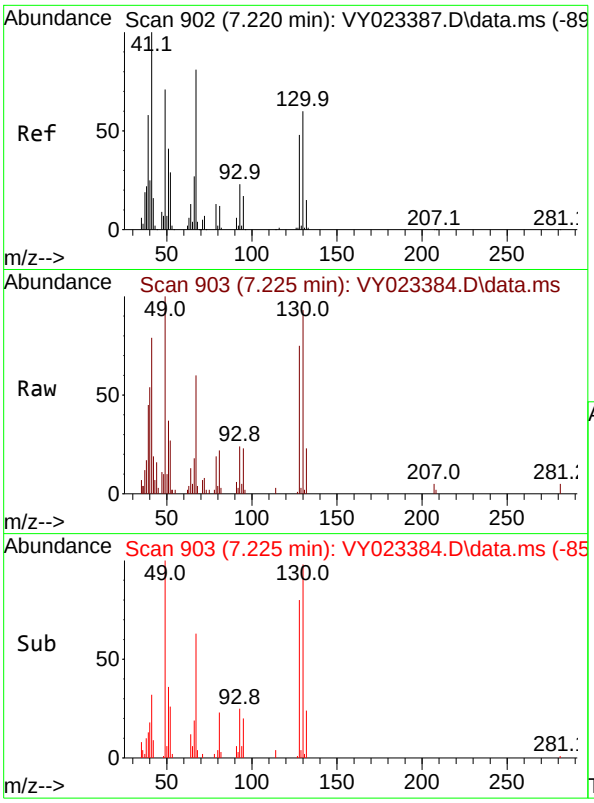


#40
Benzene
Concen: 4.693 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 78 Resp: 110551

Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.3	27.5

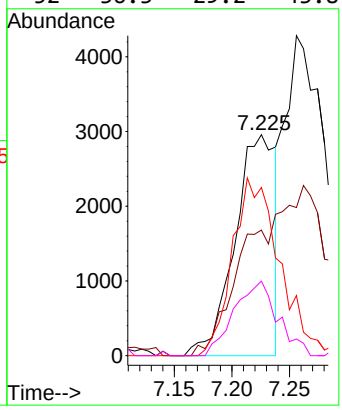




#41
Methacrylonitrile
Concen: 4.658 ug/l m
RT: 7.225 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 41 Resp: 722

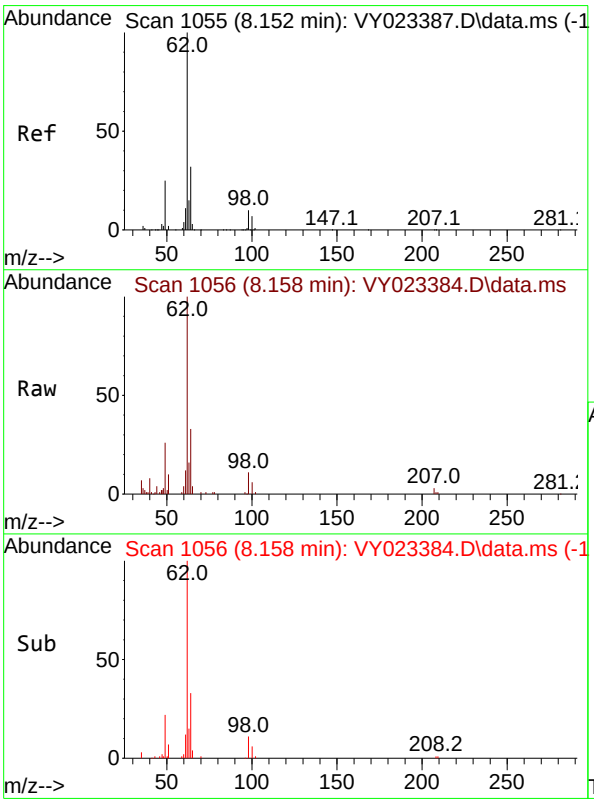
Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.2	78.4
67	95.1	74.9	112.3
52	36.3	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

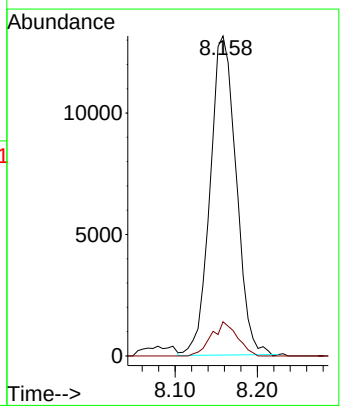
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

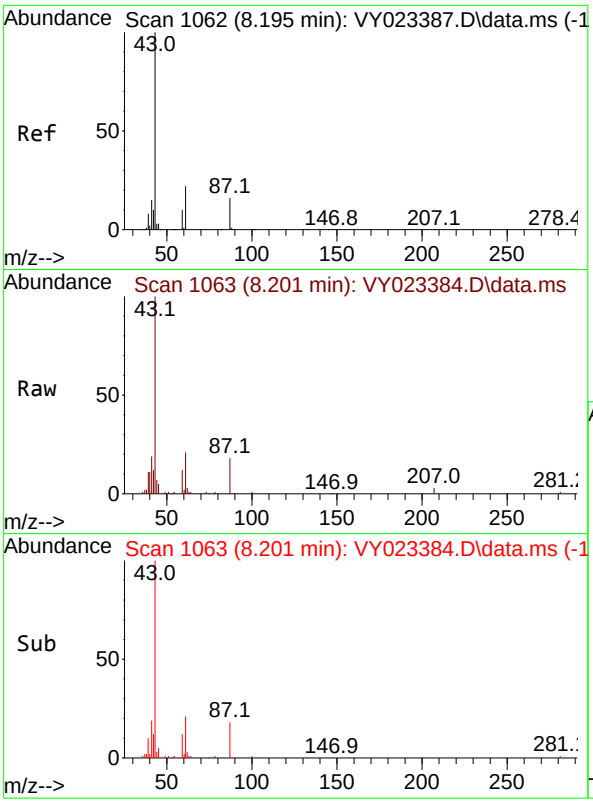


#42
1,2-Dichloroethane
Concen: 4.828 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 62 Resp: 28940

Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	21.6





#43
Isopropyl Acetate
Concen: 4.503 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

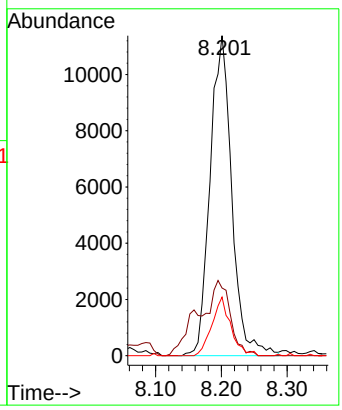
Tgt Ion: 43 Resp: 2616

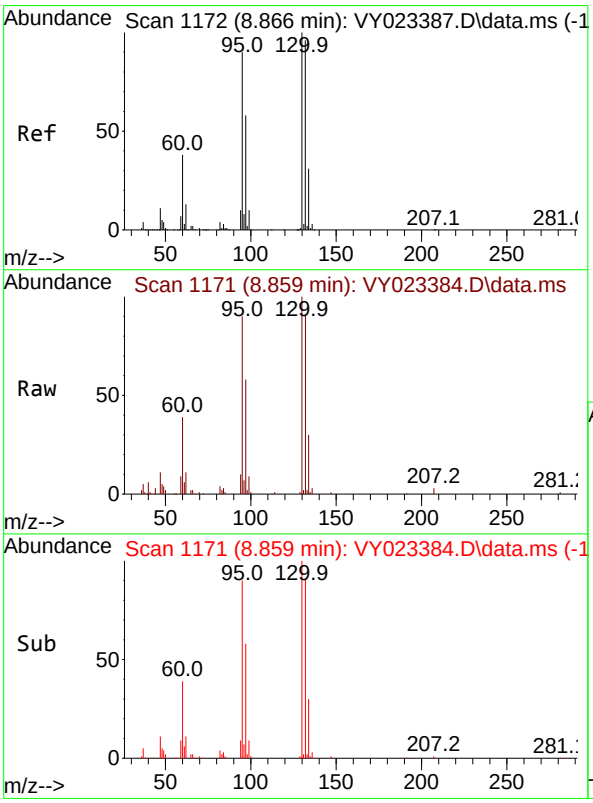
Ion	Ratio	Lower	Upper
43	100		
61	22.6	18.1	27.1
87	15.9	13.5	20.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

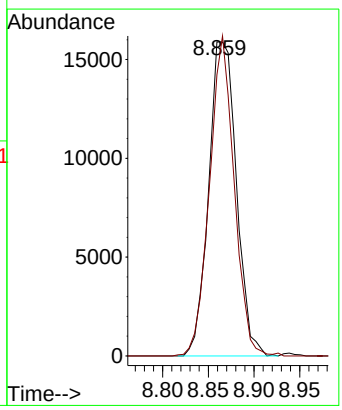


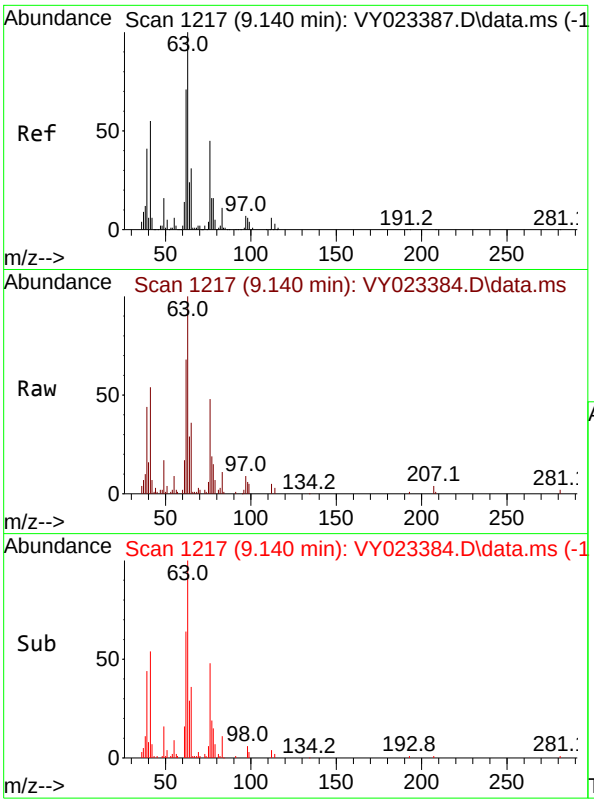


#44
Trichloroethene
Concen: 5.077 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:130 Resp: 33564

Ion	Ratio	Lower	Upper
130	100		
95	89.2	0.0	180.6

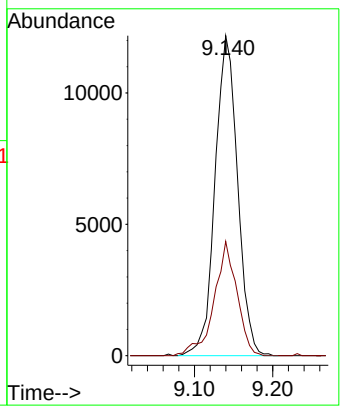




#45
1,2-Dichloropropane
Concen: 4.595 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 63 Resp: 2435

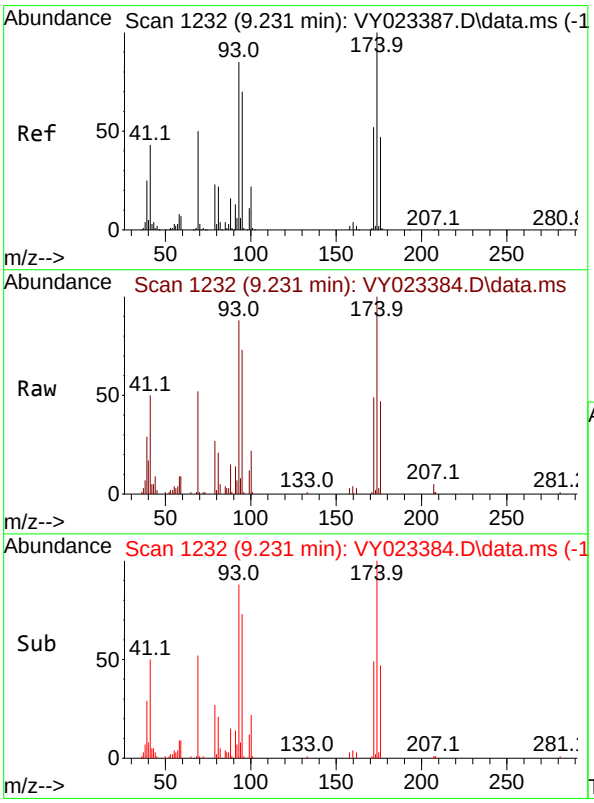
Ion	Ratio	Lower	Upper
63	100		
65	35.7	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

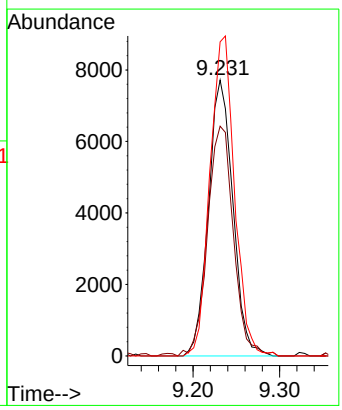
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

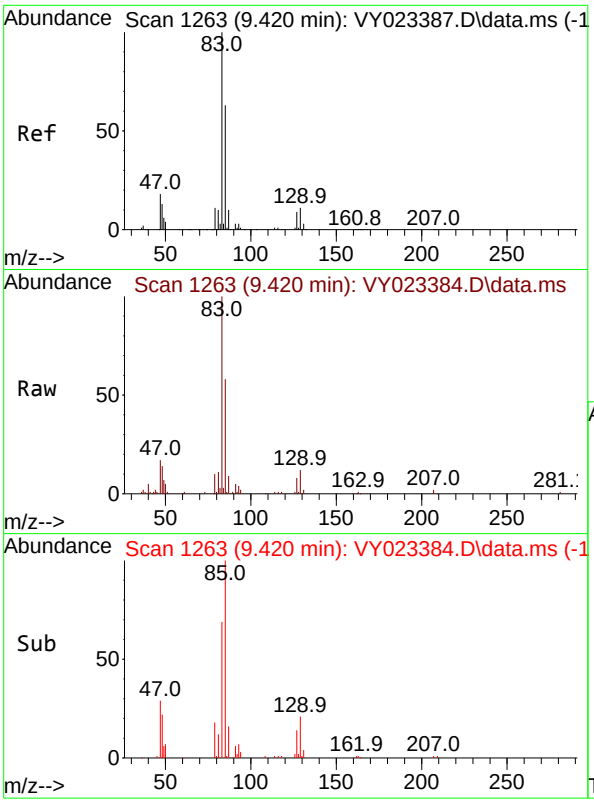


#46
Dibromomethane
Concen: 4.682 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 93 Resp: 15179

Ion	Ratio	Lower	Upper
93	100		
95	87.6	65.4	98.0
174	116.2	92.9	139.3

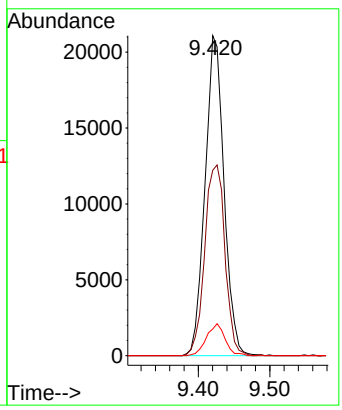




#47
Bromodichloromethane
Concen: 4.756 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 83 Resp: 3881

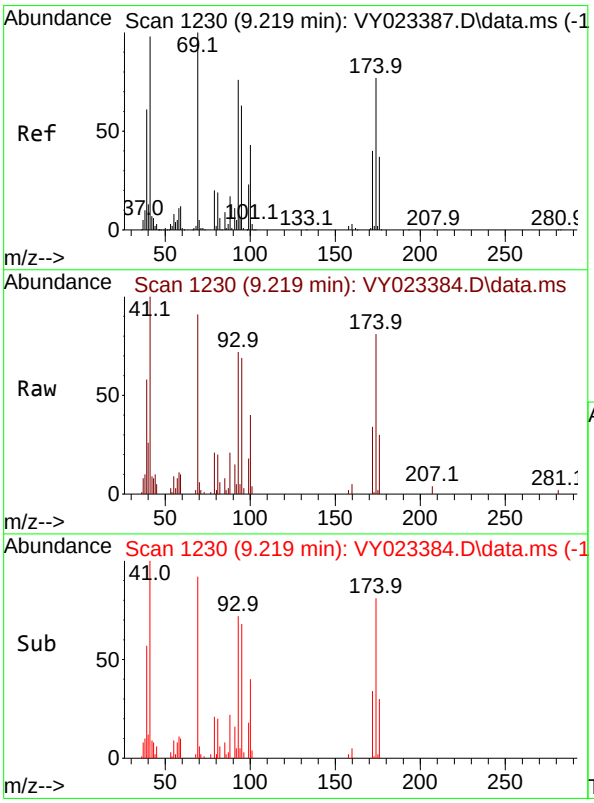
Ion	Ratio	Lower	Upper
83	100		
85	57.9	50.8	76.2
127	8.4	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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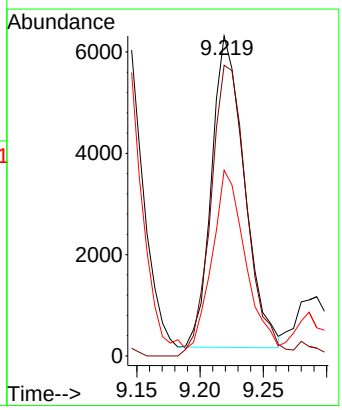
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

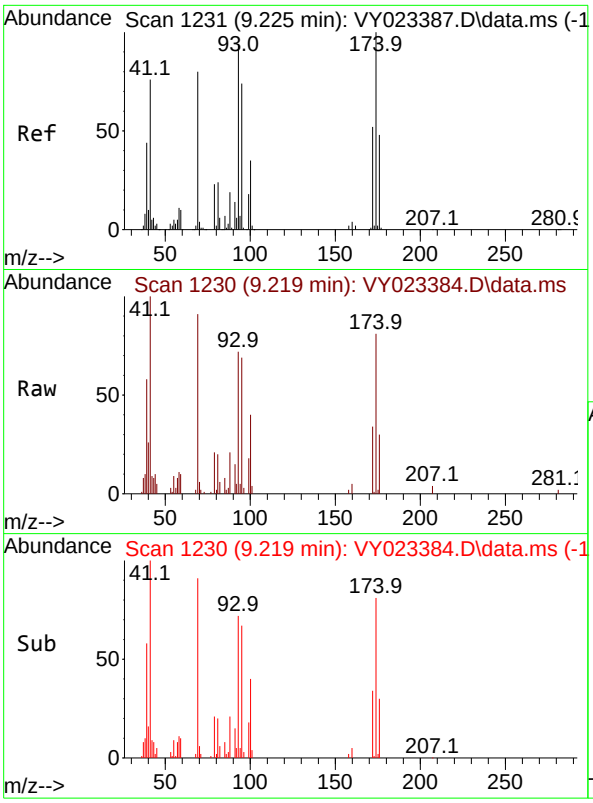


#48
Methyl methacrylate
Concen: 4.071 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 41 Resp: 11038

Ion	Ratio	Lower	Upper
41	100		
69	102.5	81.0	121.4
39	62.4	48.2	72.4

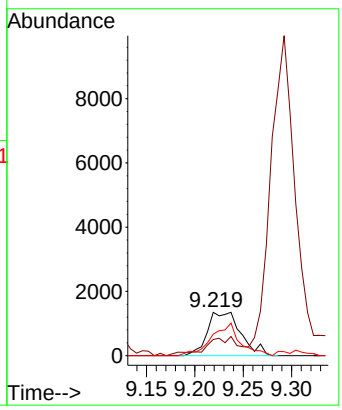




#49
1,4-Dioxane
Concen: 96.953 ug/l
RT: 9.219 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 88 Resp: 325

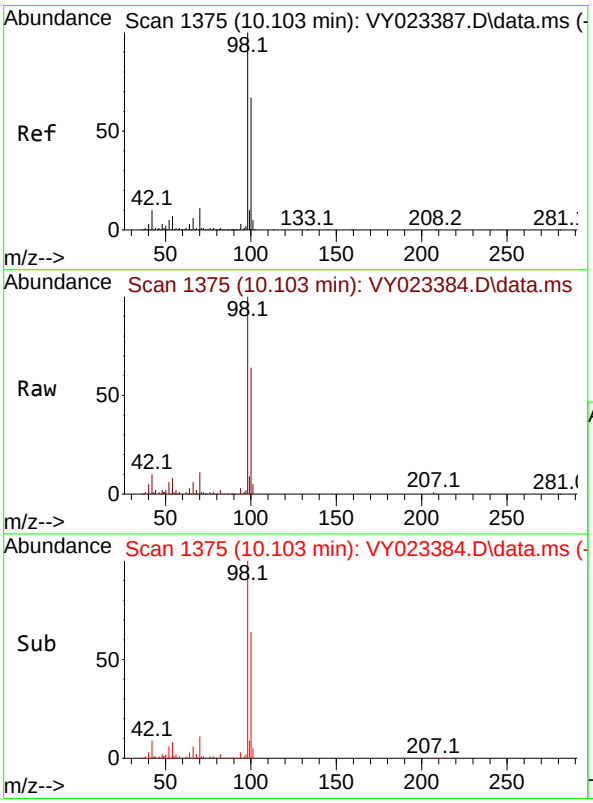
Ion	Ratio	Lower	Upper
88	100		
43	43.1	21.8	32.8
58	63.4	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

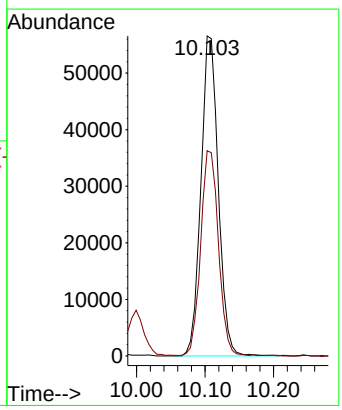
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

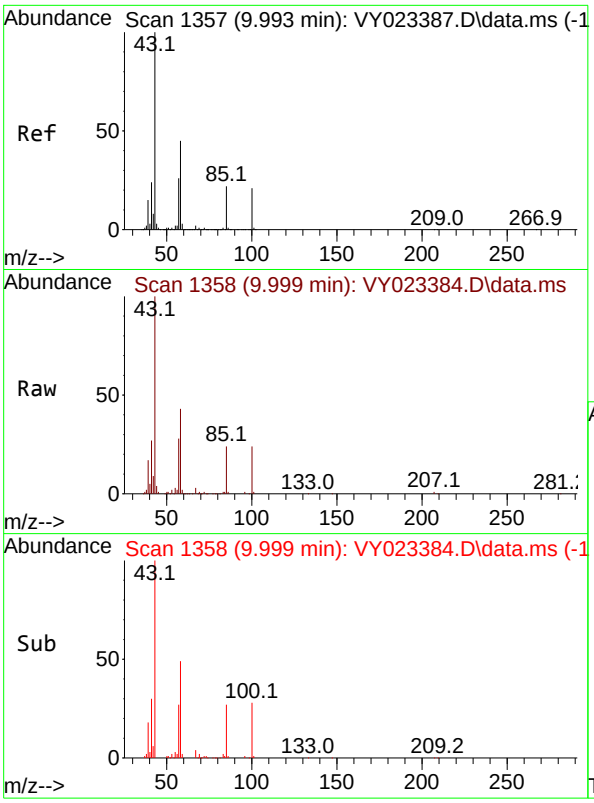


#50
Toluene-d8
Concen: 4.946 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 98 Resp: 99905

Ion	Ratio	Lower	Upper
98	100		
100	65.3	53.0	79.4

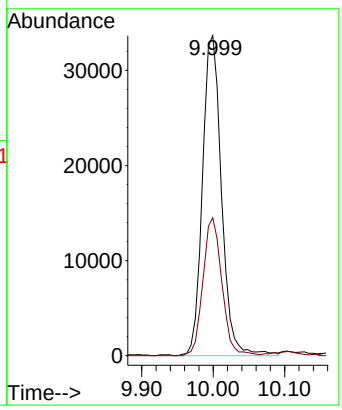




#51
4-Methyl-2-Pentanone
Concen: 20.925 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 6227

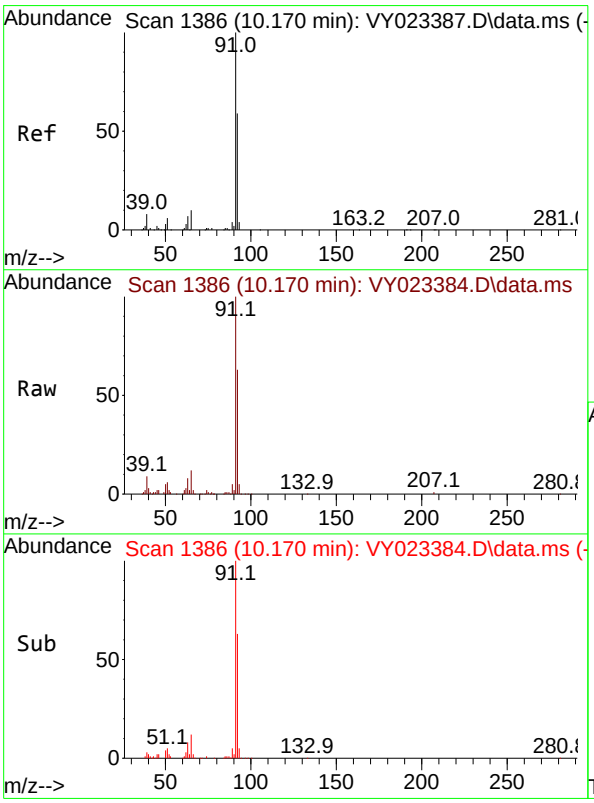
Ion	Ratio	Lower	Upper
43	100		
58	42.7	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

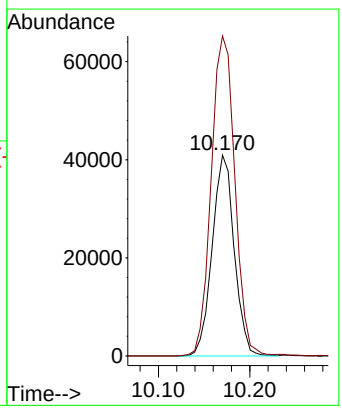
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

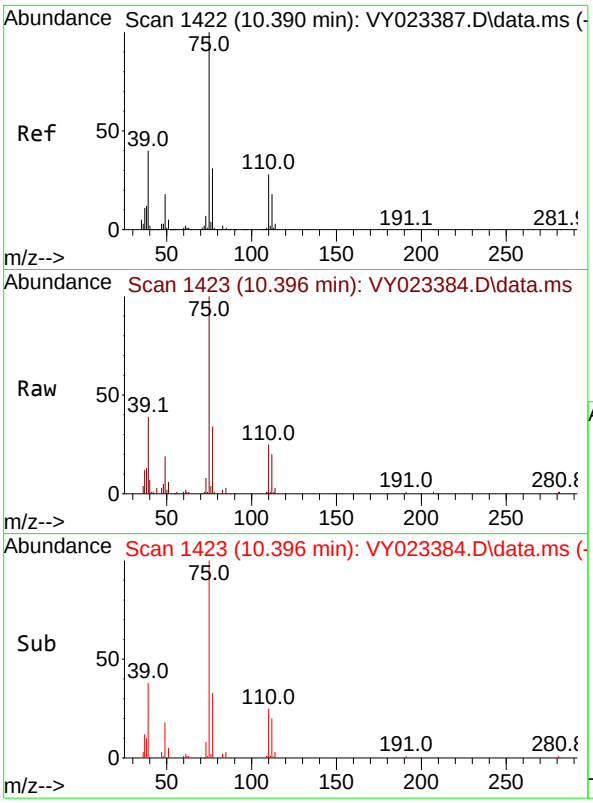


#52
Toluene
Concen: 4.585 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 92 Resp: 68550

Ion	Ratio	Lower	Upper
92	100		
91	171.2	136.4	204.6

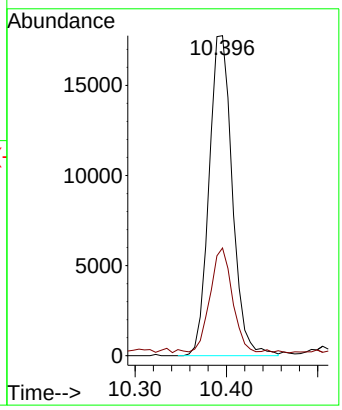




#53
t-1,3-Dichloropropene
Concen: 4.491 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 3147

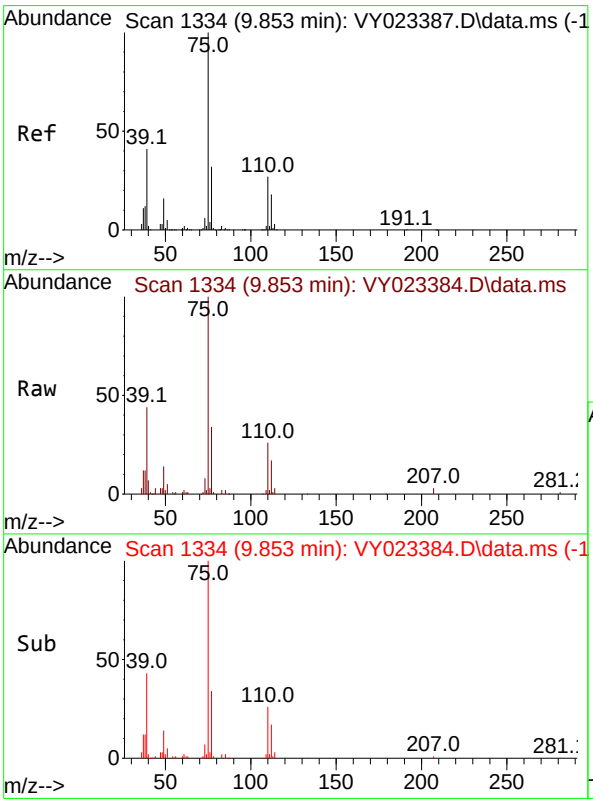
Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

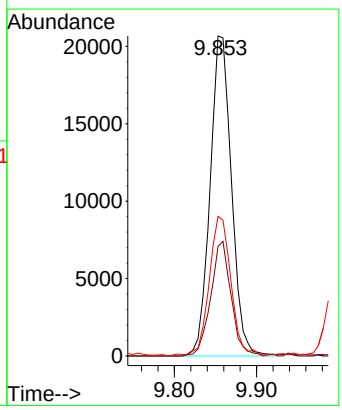
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

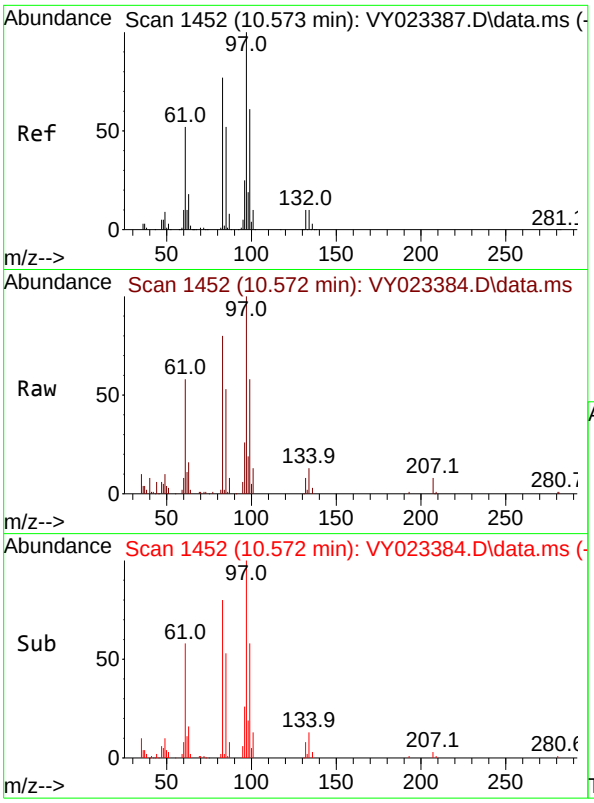


#54
cis-1,3-Dichloropropene
Concen: 4.463 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 37392

Ion	Ratio	Lower	Upper
75	100		
77	34.2	25.4	38.0
39	43.0	32.8	49.2

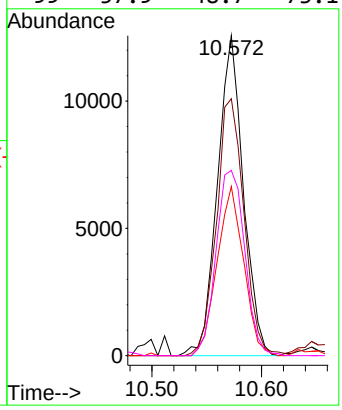




#55
1,1,2-Trichloroethane
Concen: 4.786 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 97 Resp: 2064

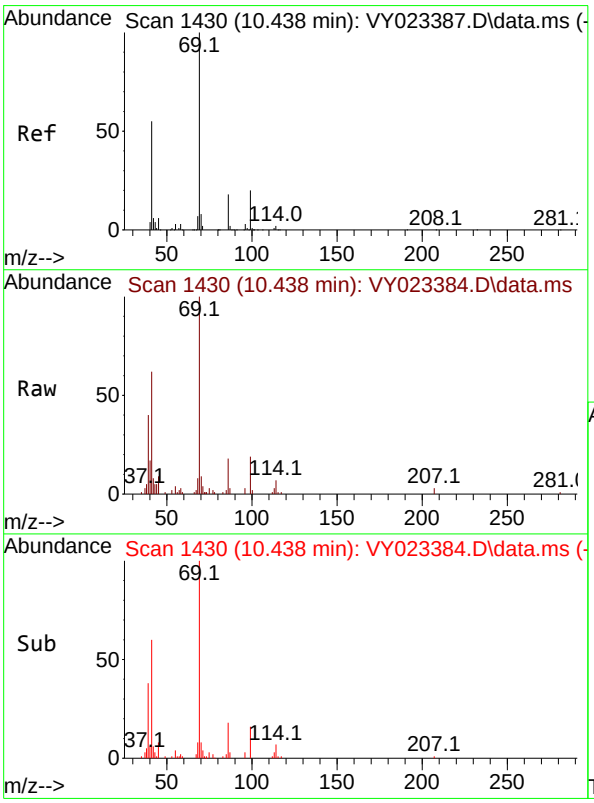
Ion	Ratio	Lower	Upper
97	100		
83	80.3	61.8	92.6
85	52.8	41.3	61.9
99	57.9	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

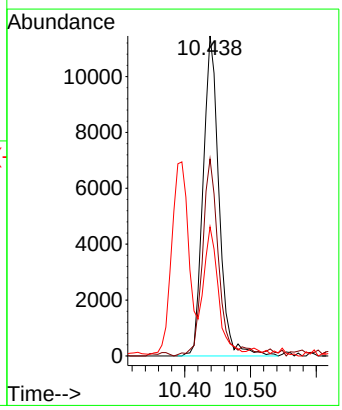
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

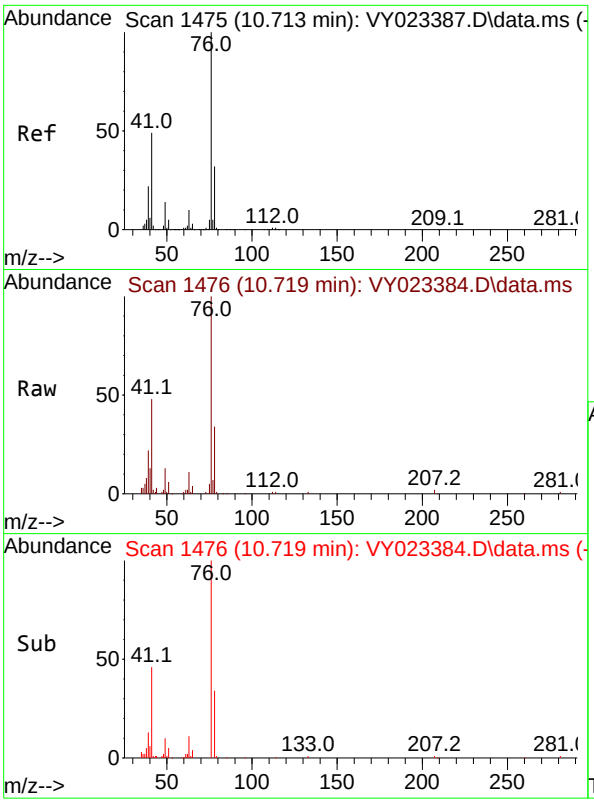


#56
Ethyl methacrylate
Concen: 3.891 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 69 Resp: 19324

Ion	Ratio	Lower	Upper
69	100		
41	60.6	44.6	67.0
39	36.2	27.0	40.4

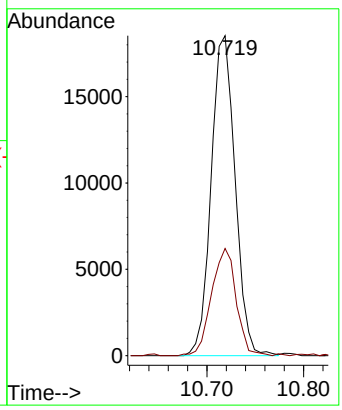




#57
1,3-Dichloropropane
Concen: 4.560 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 76 Resp: 3183

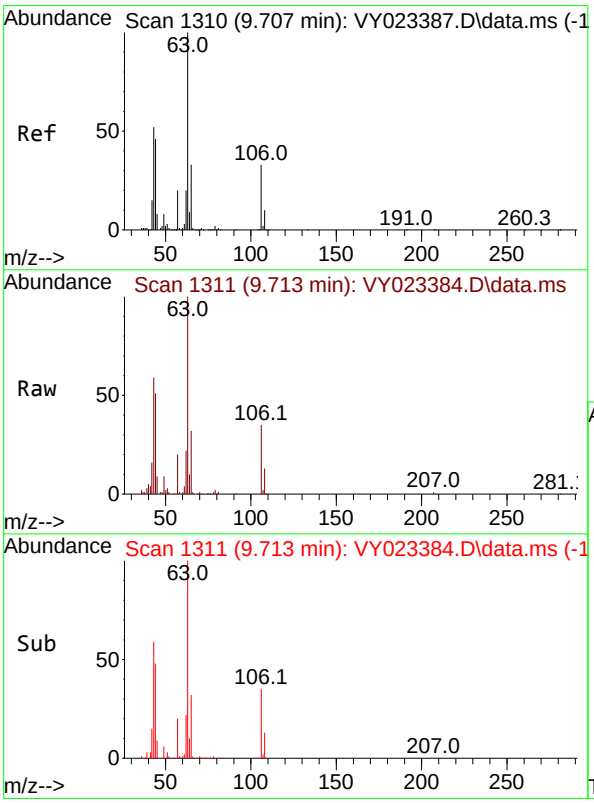
Ion	Ratio	Lower	Upper
76	100		
78	34.4	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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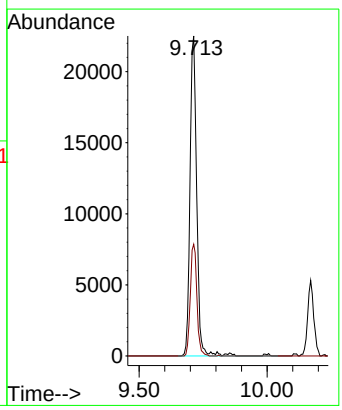
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

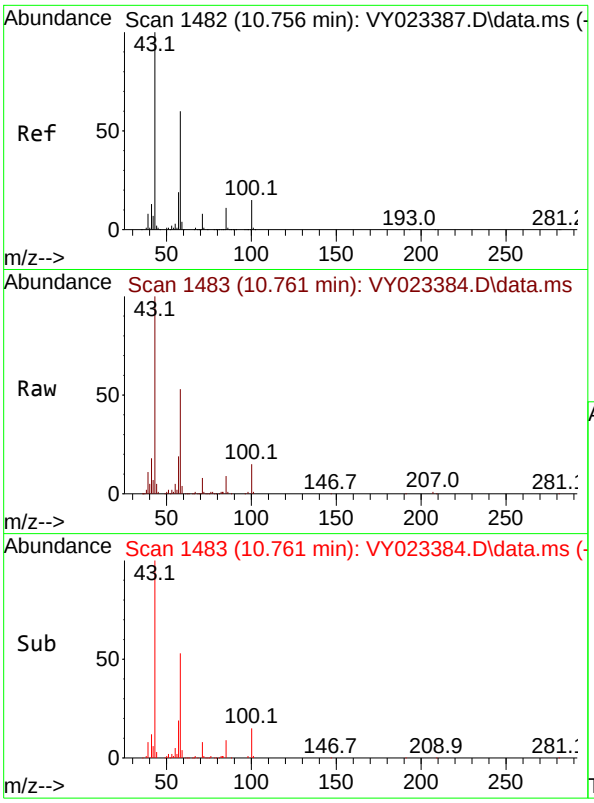


#58
2-Chloroethyl Vinyl ether
Concen: 18.894 ug/l m
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 63 Resp: 41054

Ion	Ratio	Lower	Upper
63	100		
106	34.1	26.6	39.8





#59
2-Hexanone
Concen: 23.185 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

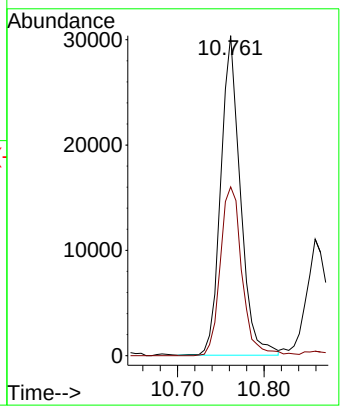
Tgt Ion: 43 Resp: 4777

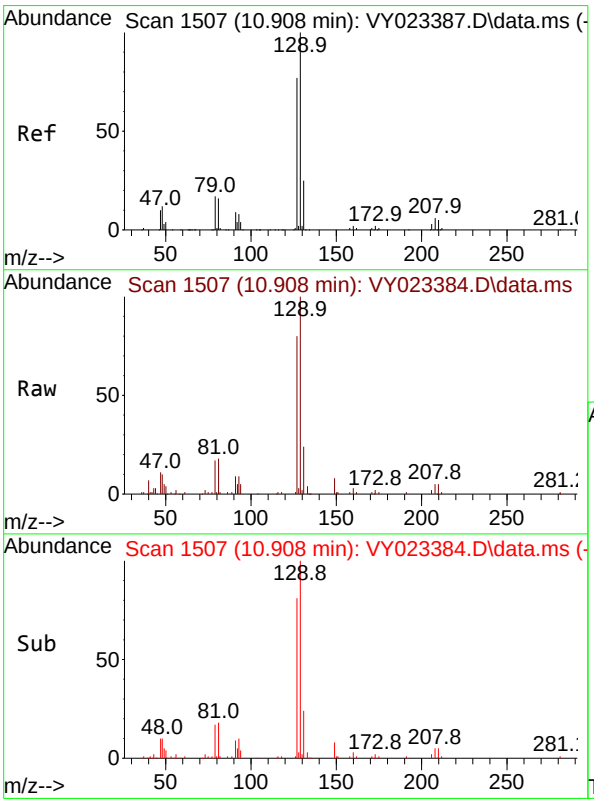
Ion	Ratio	Lower	Upper
43	100		
58	58.4	30.5	91.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

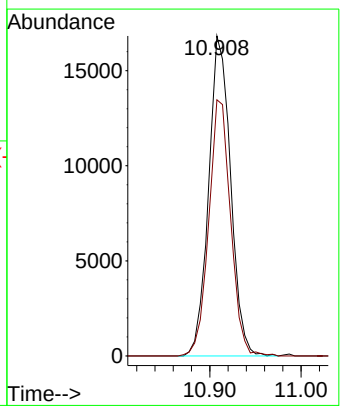


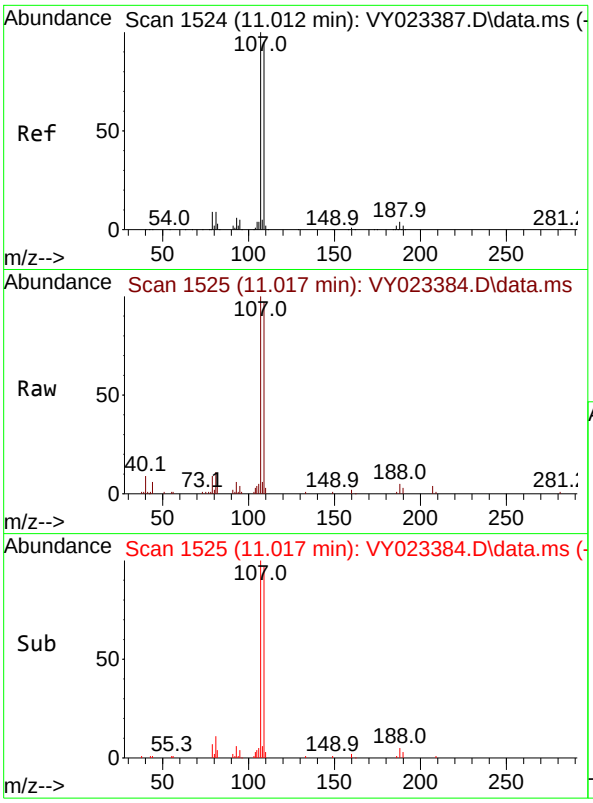


#60
Dibromochloromethane
Concen: 4.783 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:129 Resp: 28135

Ion	Ratio	Lower	Upper
129	100		
127	79.7	38.6	115.7

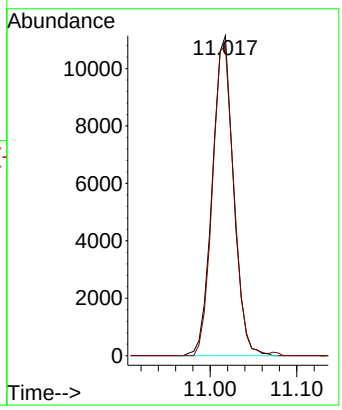




#61
1,2-Dibromoethane
Concen: 4.673 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:107 Resp: 1895

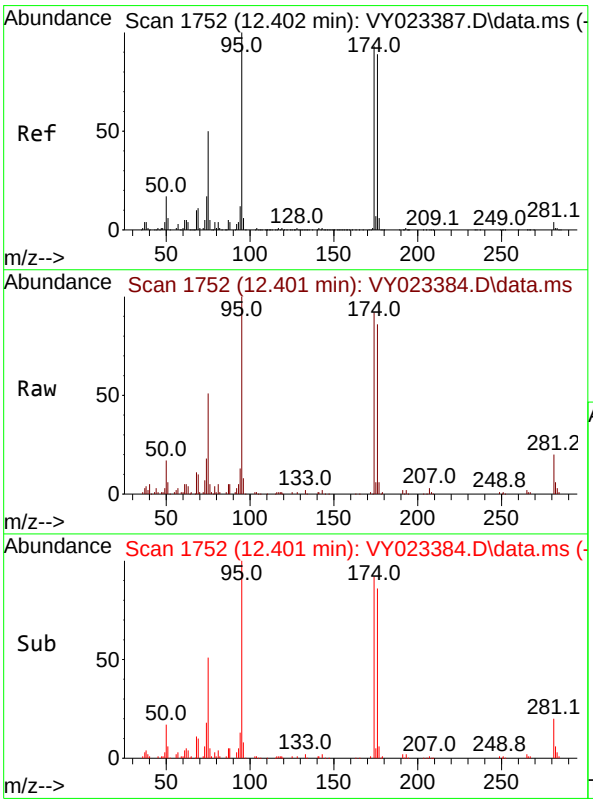
Ion	Ratio	Lower	Upper
107	100		
109	97.6	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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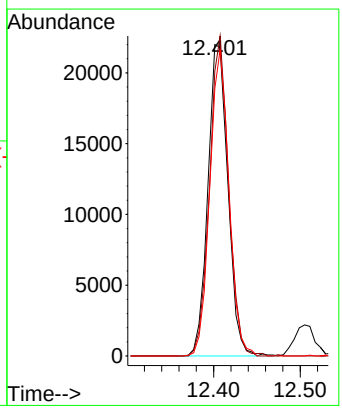
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

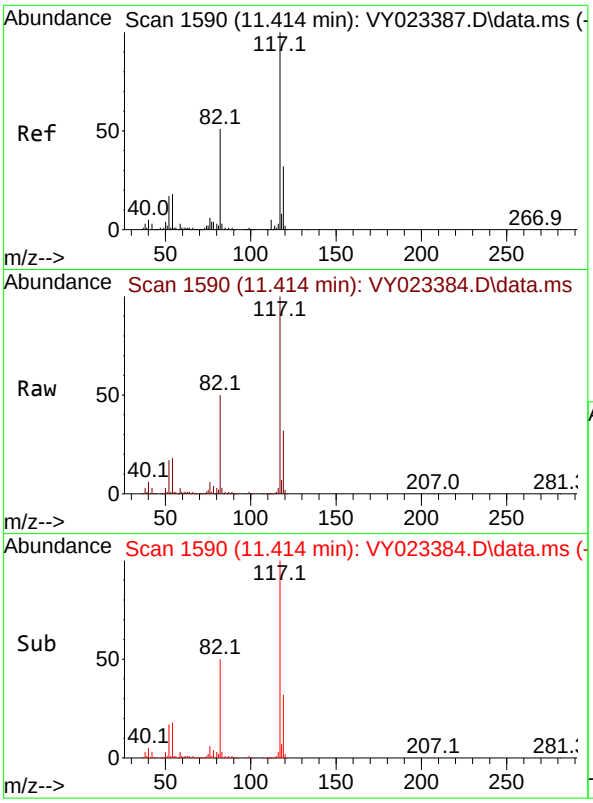


#62
4-Bromofluorobenzene
Concen: 5.548 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 95 Resp: 35355

Ion	Ratio	Lower	Upper
95	100		
174	97.9	0.0	192.8
176	94.0	0.0	187.6

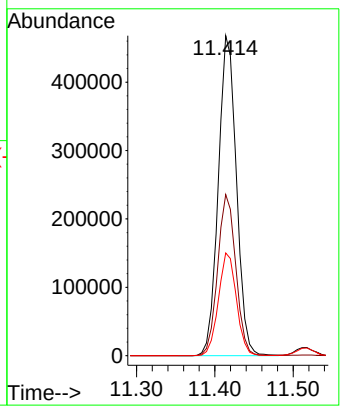




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:117 Resp: 75339

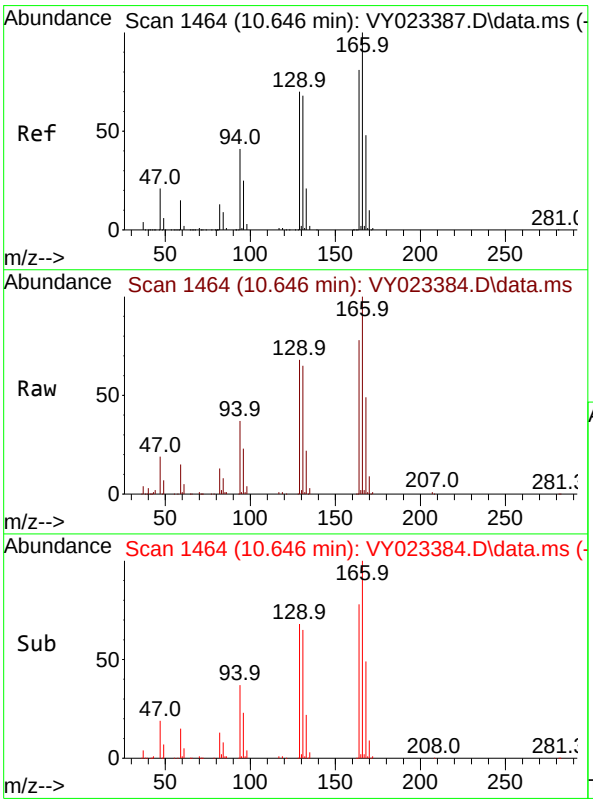
Ion	Ratio	Lower	Upper
117	100		
82	50.3	41.0	61.4
119	32.1	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

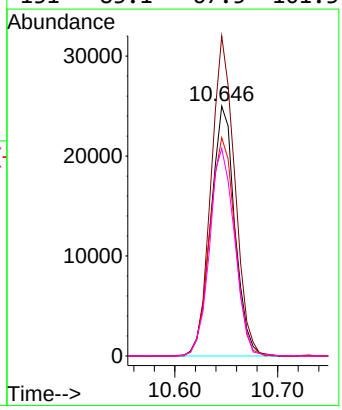
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

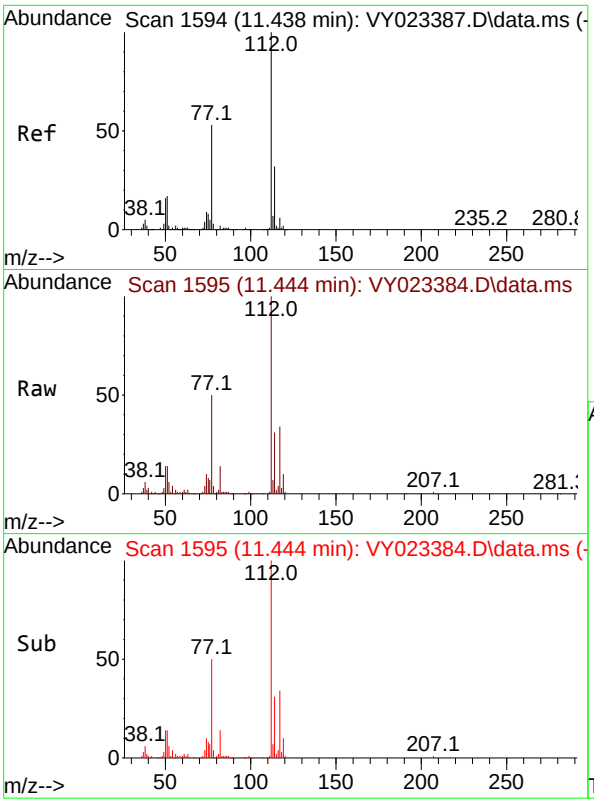


#64
Tetrachloroethene
Concen: 5.383 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:164 Resp: 40570

Ion	Ratio	Lower	Upper
164	100		
166	128.1	99.4	149.0
129	87.4	69.4	104.2
131	83.1	67.5	101.3

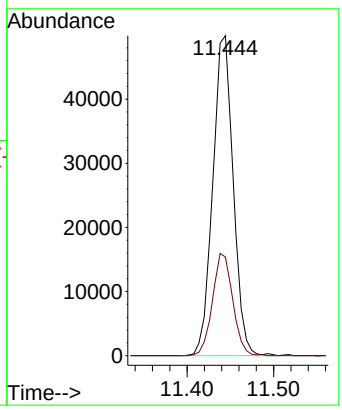




#65
Chlorobenzene
Concen: 4.997 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:112 Resp: 8180

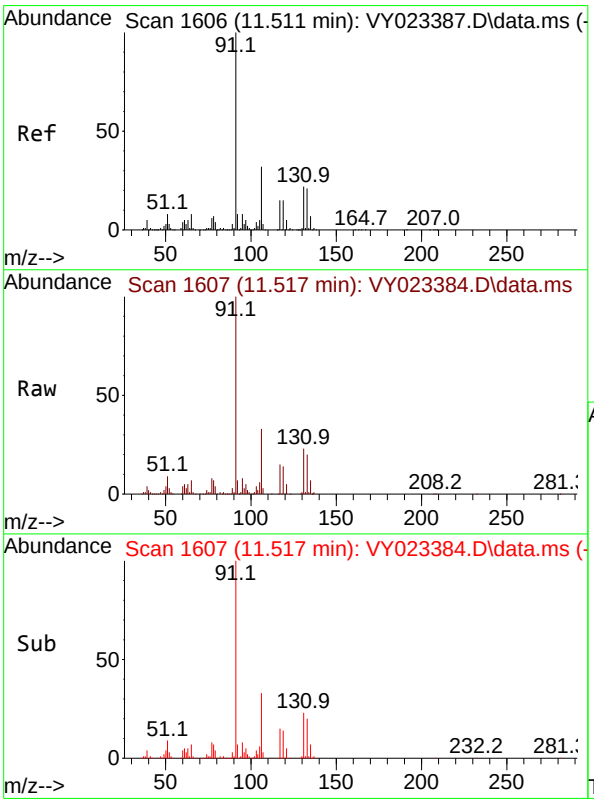
Ion	Ratio	Lower	Upper
112	100		
114	30.8	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

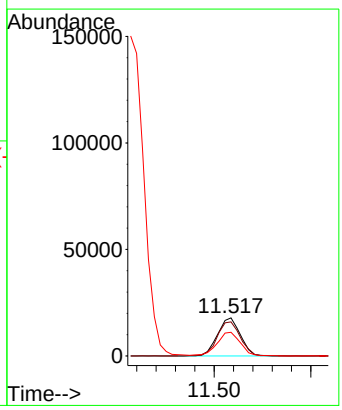
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

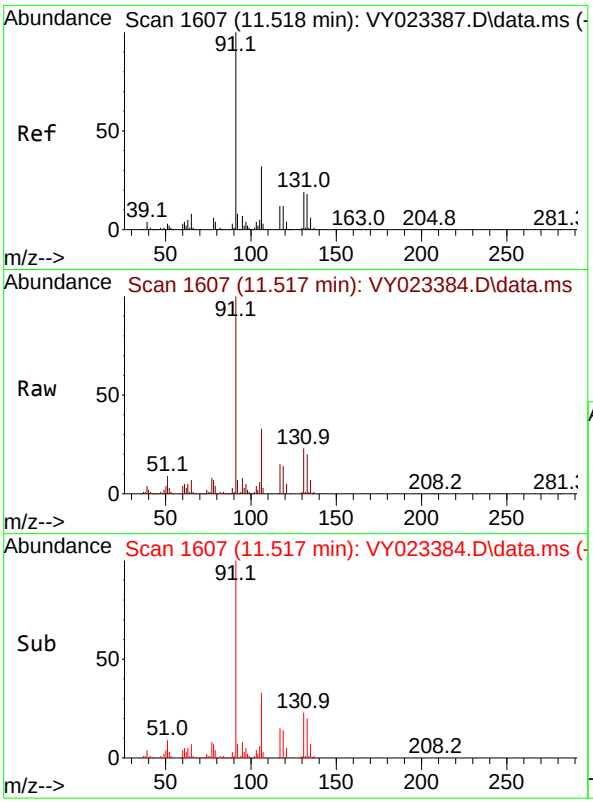


#66
1,1,1,2-Tetrachloroethane
Concen: 5.075 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:131 Resp: 29222

Ion	Ratio	Lower	Upper
131	100		
133	91.7	48.4	145.2
119	64.1	32.4	97.2

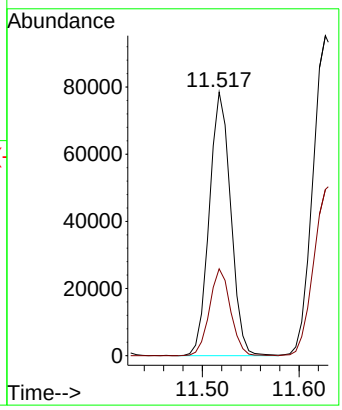




#67
Ethyl Benzene
Concen: 4.529 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 12100

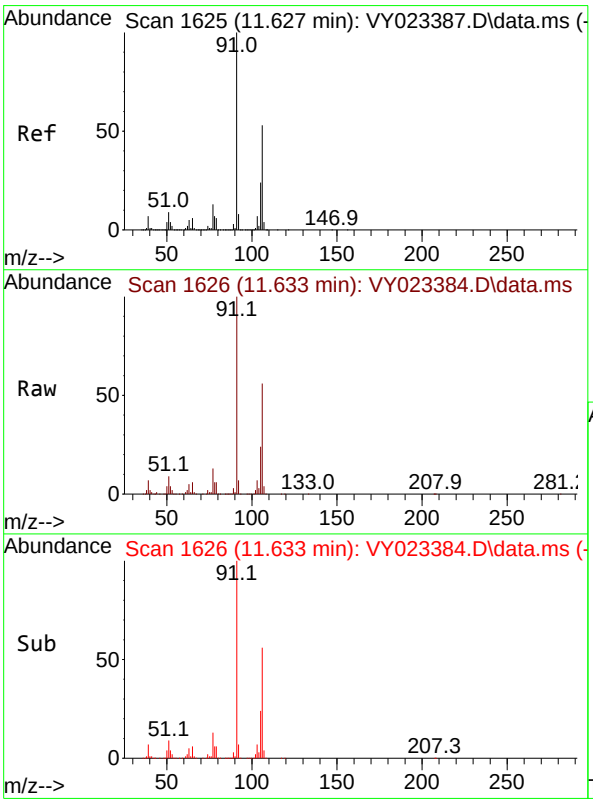
Ion	Ratio	Lower	Upper
91	100		
106	33.0	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
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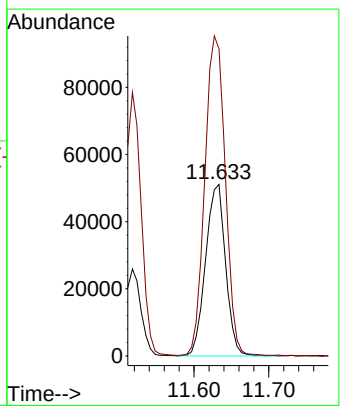
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

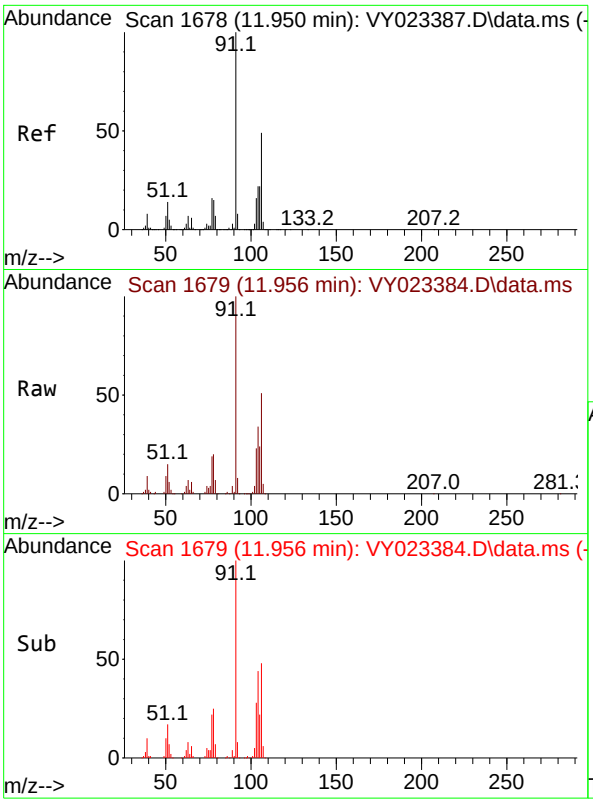


#68
m/p-Xylenes
Concen: 8.887 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:106 Resp: 95176

Ion	Ratio	Lower	Upper
106	100		
91	190.5	152.6	229.0





#69
o-Xylene
Concen: 4.466 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

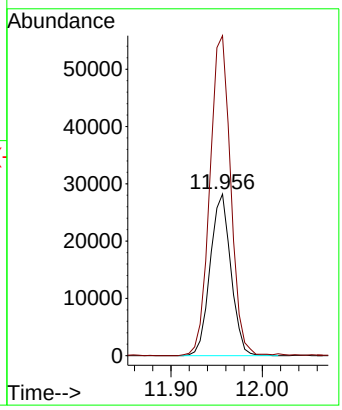
Tgt Ion:106 Resp: 4428

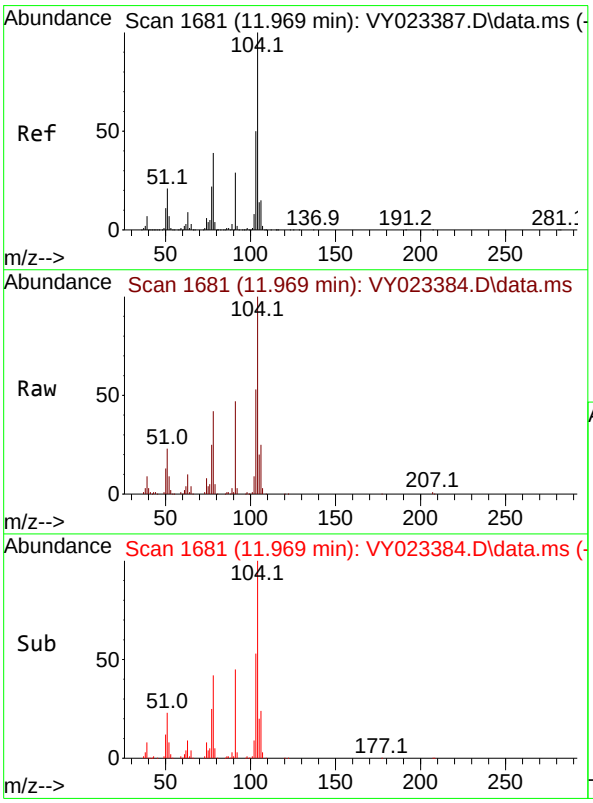
Ion	Ratio	Lower	Upper
106	100		
91	199.7	101.4	304.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

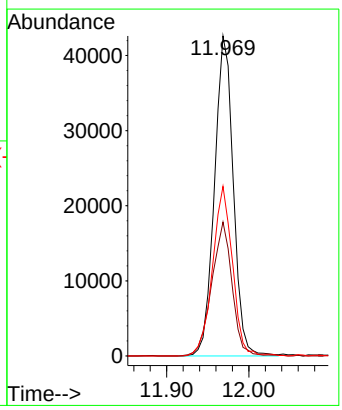


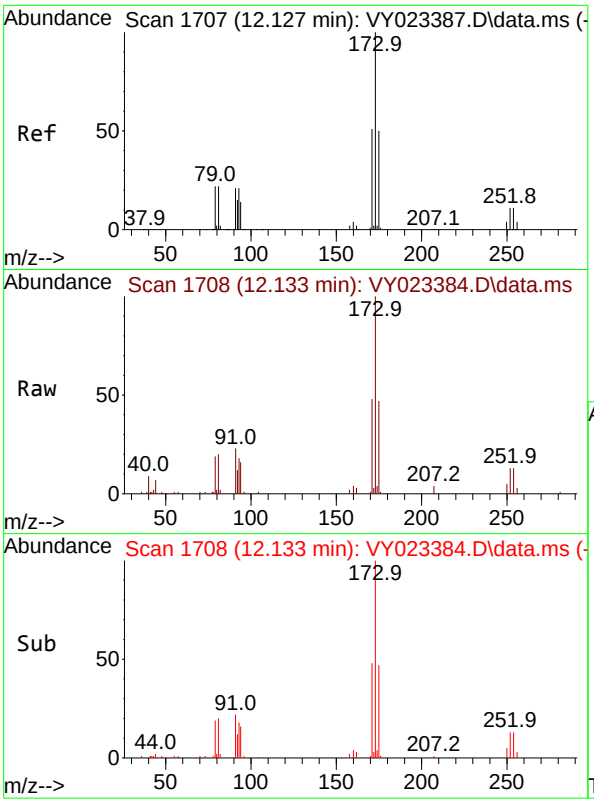


#70
Styrene
Concen: 4.152 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:104 Resp: 67960

Ion	Ratio	Lower	Upper
104	100		
78	45.1	36.1	54.1
103	55.9	43.2	64.8

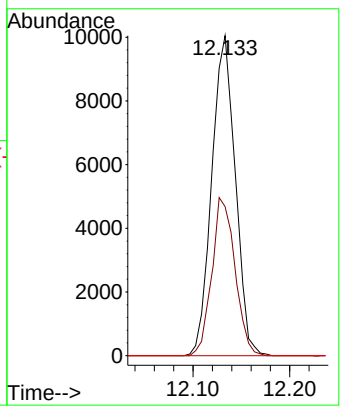




#71
Bromoform
Concen: 4.929 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:173 Resp: 1698

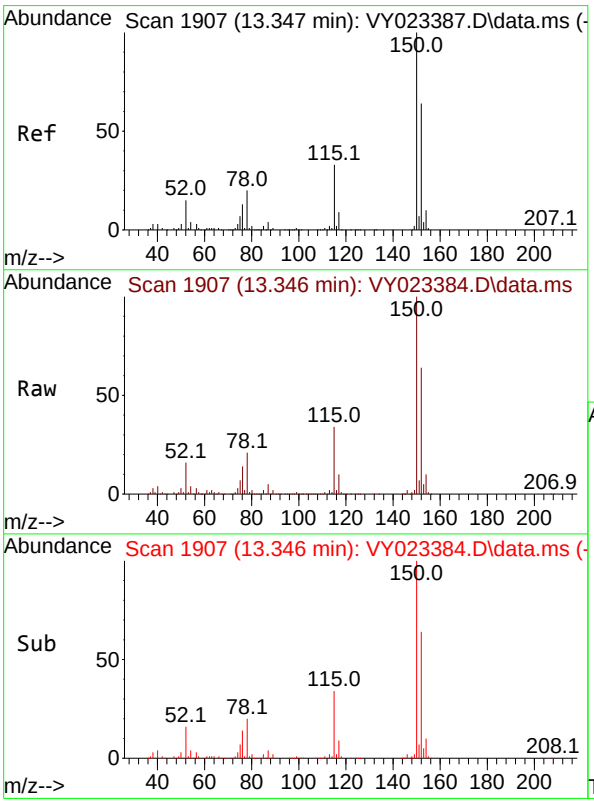
Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.8	74.3
254	0.0	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

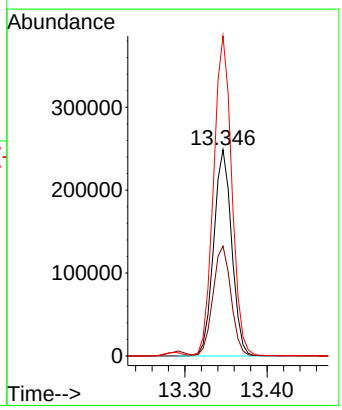
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

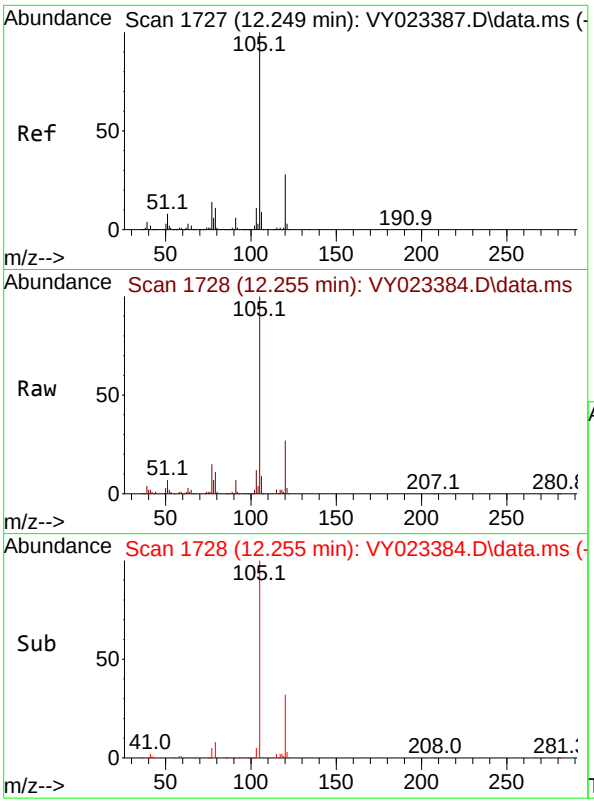


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:152 Resp: 378104

Ion	Ratio	Lower	Upper
152	100		
115	53.5	27.1	81.2
150	156.6	0.0	347.4

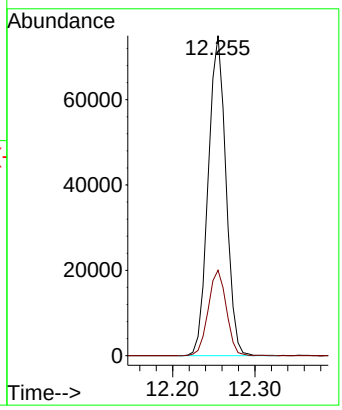




#73
Isopropylbenzene
Concen: 4.455 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:105 Resp: 11219

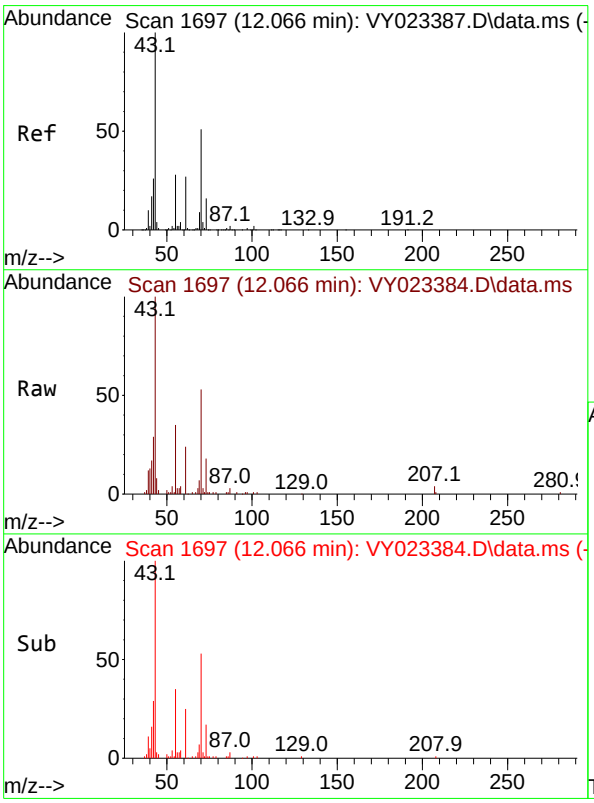
Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

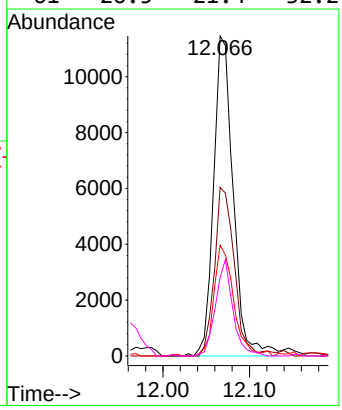
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

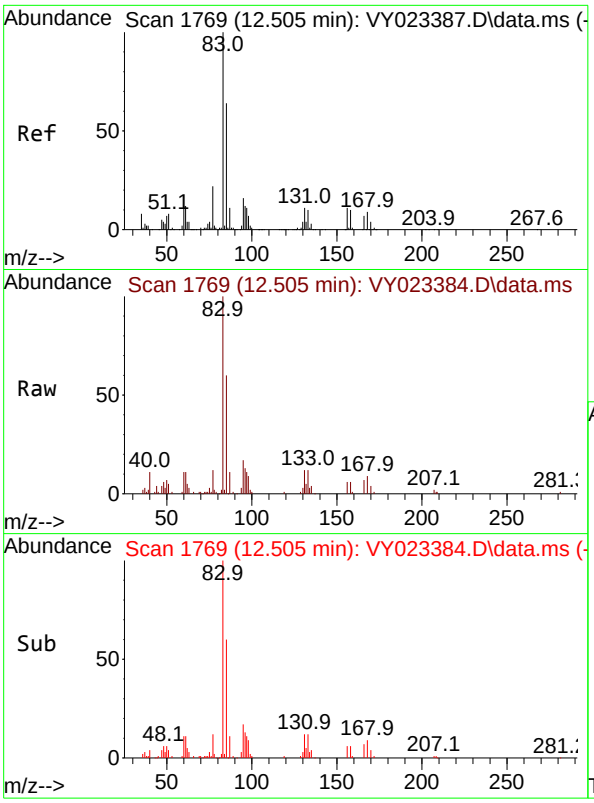


#74
N-amyl acetate
Concen: 3.833 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 18041

Ion	Ratio	Lower	Upper
43	100		
70	53.0	41.1	61.7
55	35.3	23.0	34.6#
61	26.5	21.4	32.2

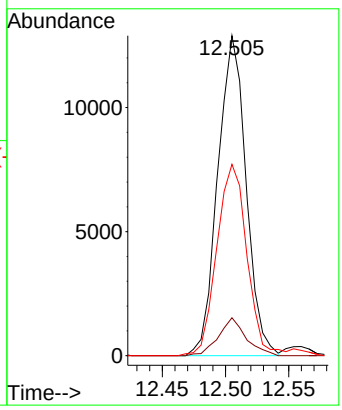




#75
1,1,2,2-Tetrachloroethane
Concen: 4.773 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 83 Resp: 2005

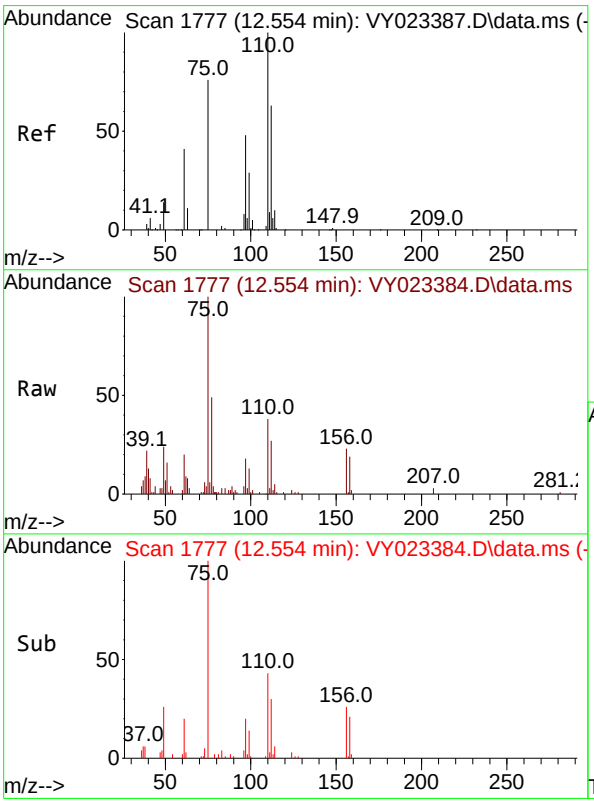
Ion	Ratio	Lower	Upper
83	100		
131	11.6	5.9	17.6
85	63.4	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

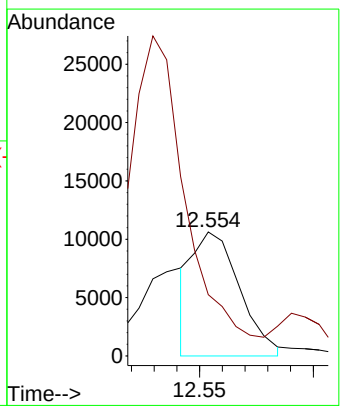
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

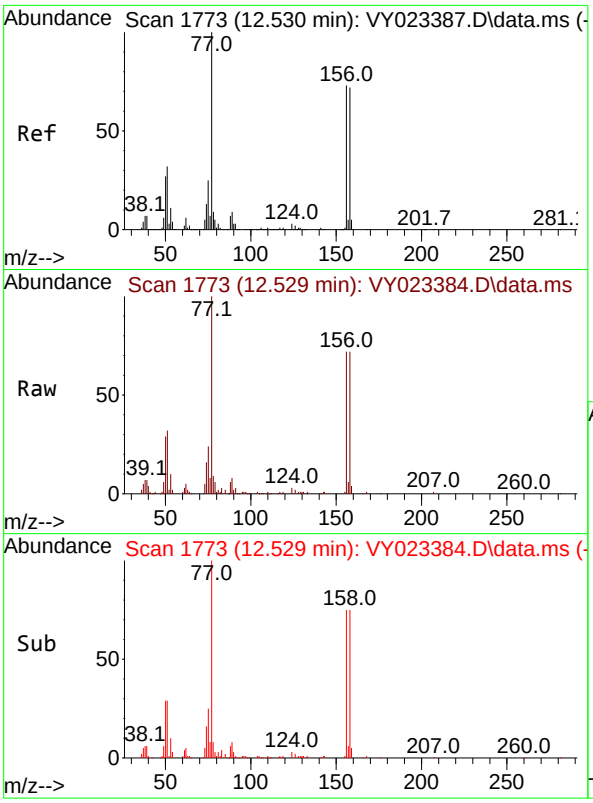


#76
1,2,3-Trichloropropane
Concen: 4.118 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 15359

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

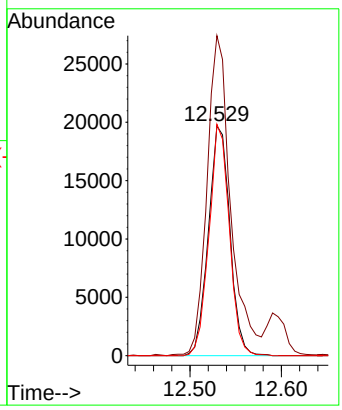




#77
Bromobenzene
Concen: 4.967 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:156 Resp: 3210

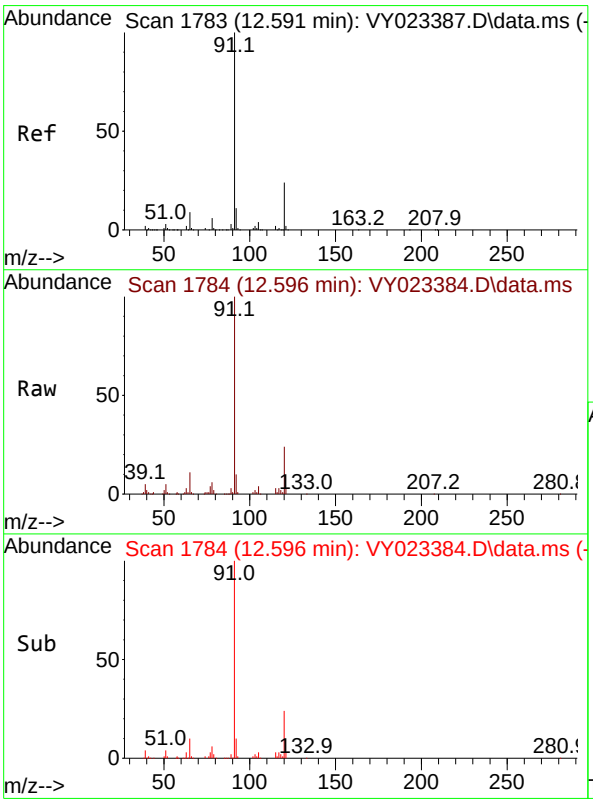
Ion	Ratio	Lower	Upper
156	100		
77	154.2	76.8	230.5
158	95.0	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

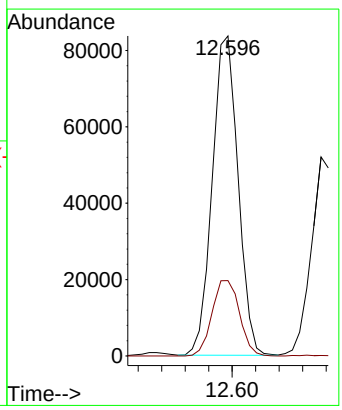
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

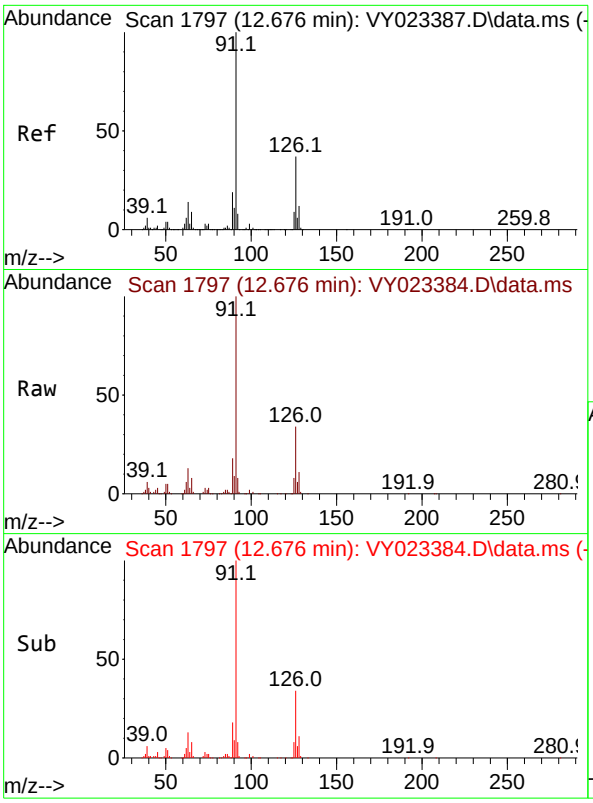


#78
n-propylbenzene
Concen: 4.305 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 127521

Ion	Ratio	Lower	Upper
91	100		
120	25.1	12.3	36.8

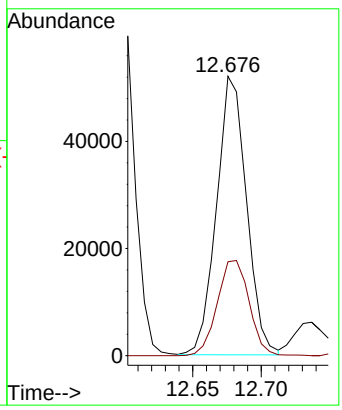




#79
2-Chlorotoluene
Concen: 4.631 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 7919

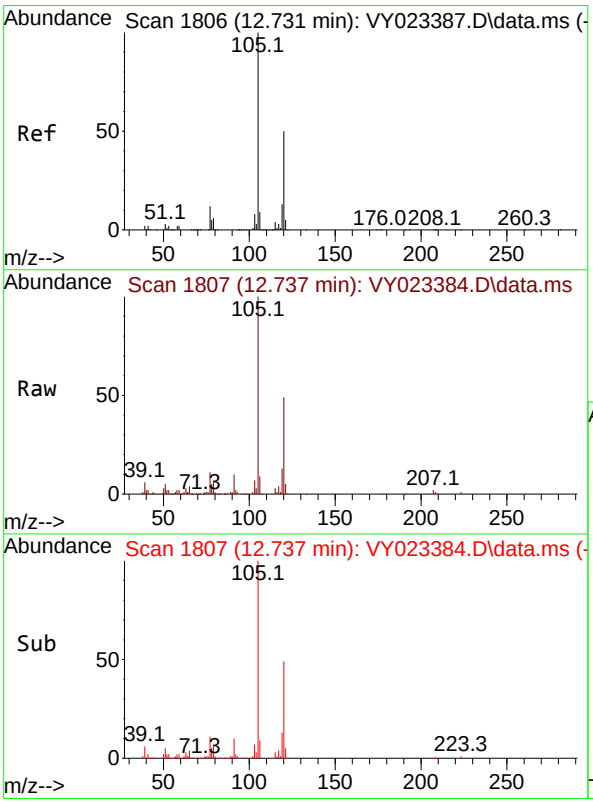
Ion	Ratio	Lower	Upper
91	100		
126	36.4	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

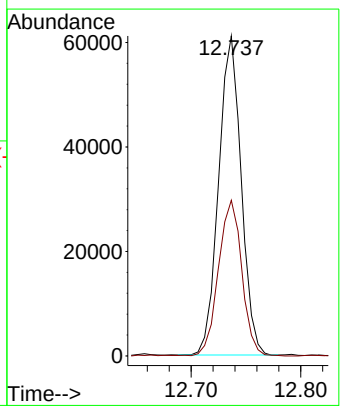
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

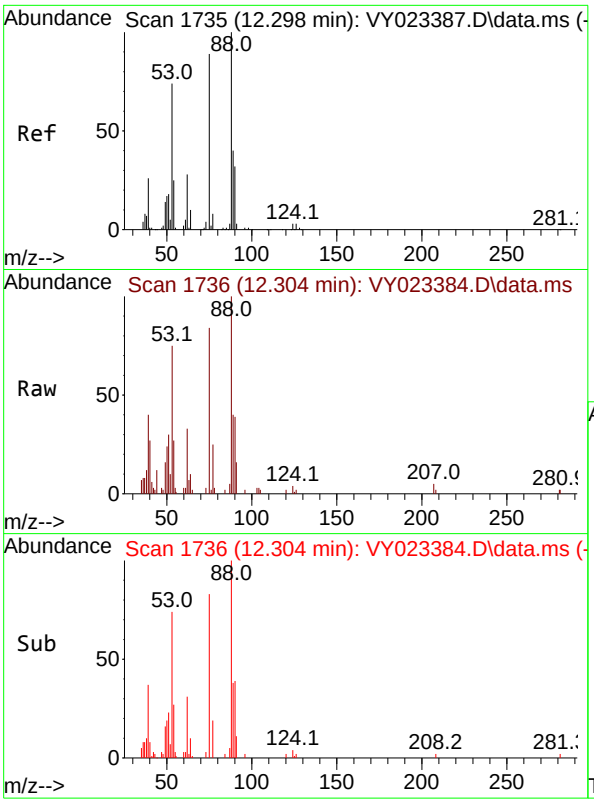


#80
1,3,5-Trimethylbenzene
Concen: 4.264 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:105 Resp: 87297

Ion	Ratio	Lower	Upper
105	100		
120	50.6	25.4	76.4

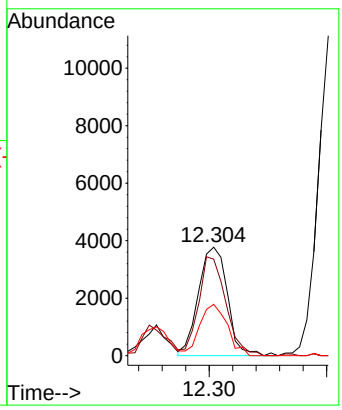




#81
trans-1,4-Dichloro-2-butene
Concen: 4.680 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 647

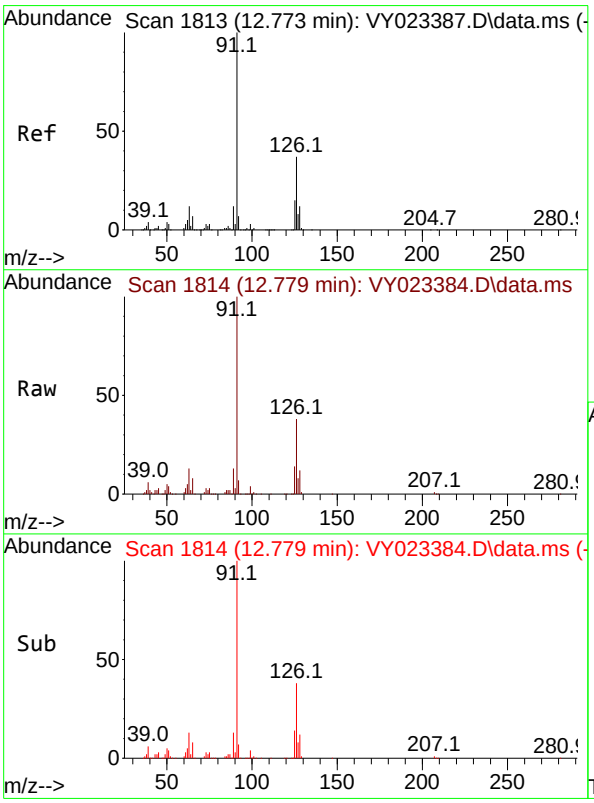
Ion	Ratio	Lower	Upper
75	100		
53	85.6	68.6	102.8
89	44.4	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

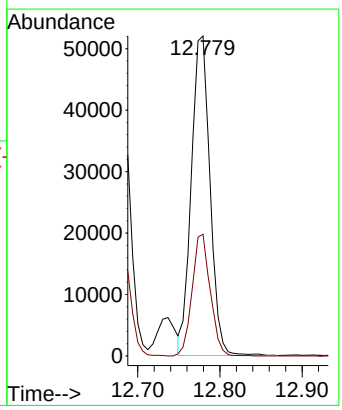
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

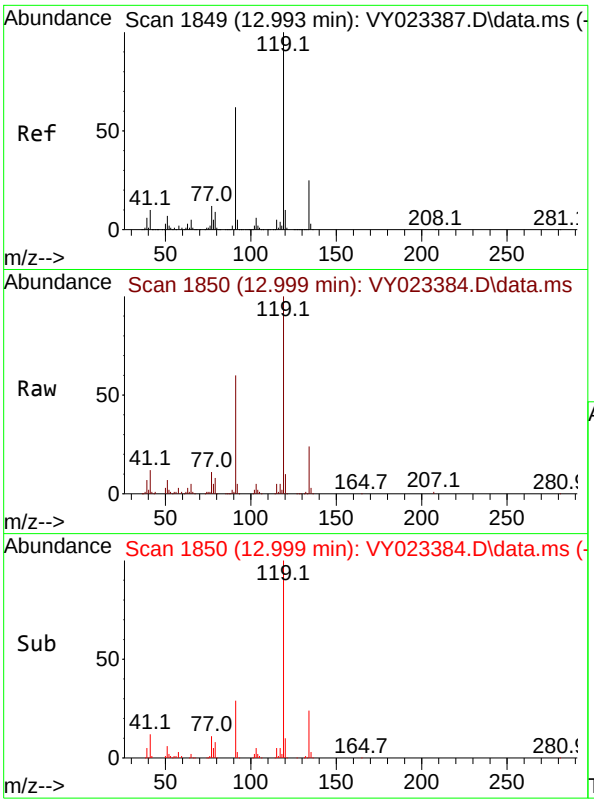


#82
4-Chlorotoluene
Concen: 4.600 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 82155

Ion	Ratio	Lower	Upper
91	100		
126	36.9	18.4	55.4

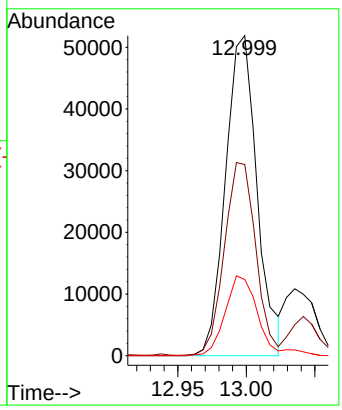




#83
tert-Butylbenzene
Concen: 4.457 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:119 Resp: 8315

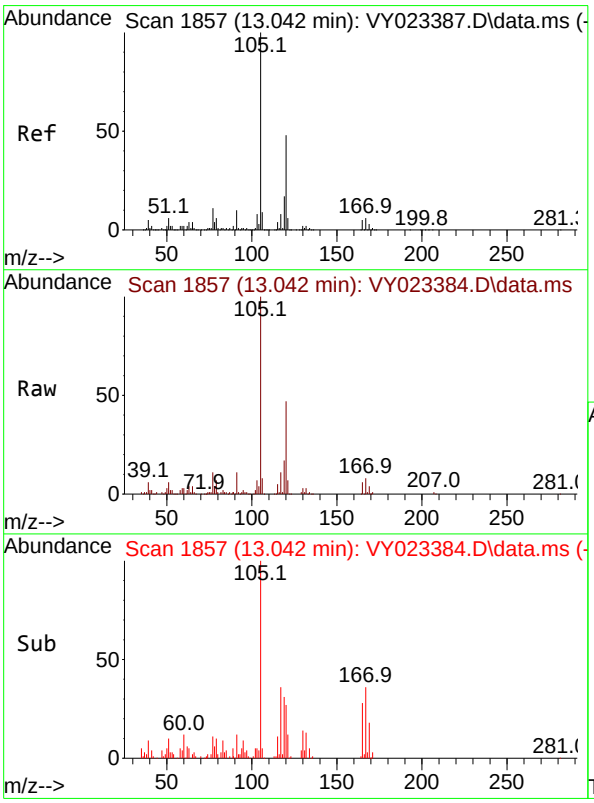
Ion	Ratio	Lower	Upper
119	100		
91	60.0	29.9	89.8
134	26.2	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

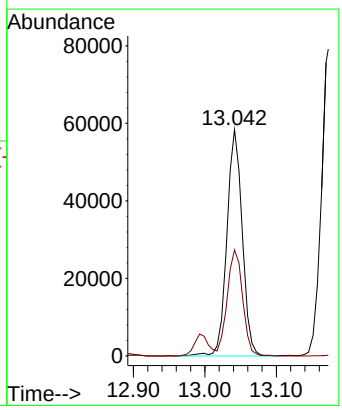
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

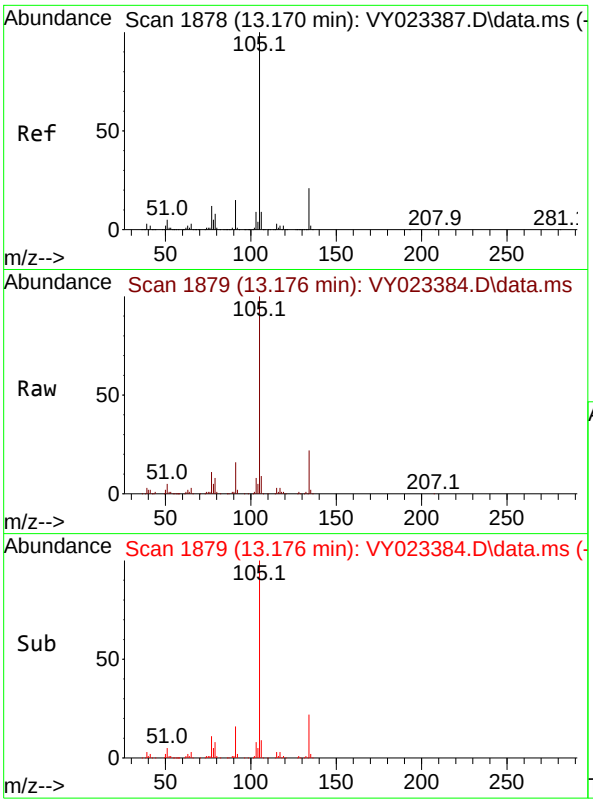


#84
1,2,4-Trimethylbenzene
Concen: 4.294 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:105 Resp: 86988

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.8	71.2

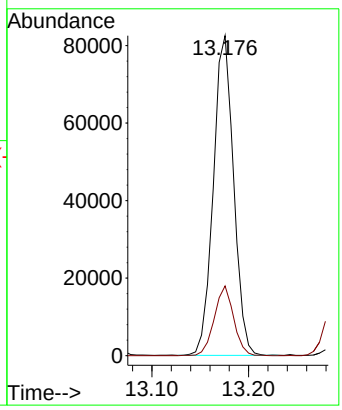




#85
sec-Butylbenzene
Concen: 4.443 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:105 Resp: 12006

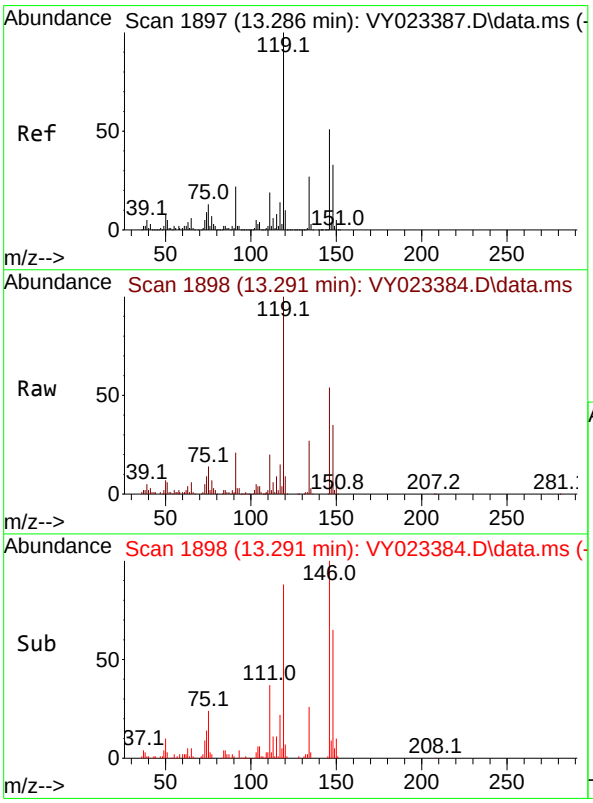
Ion	Ratio	Lower	Upper
105	100		
134	20.9	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

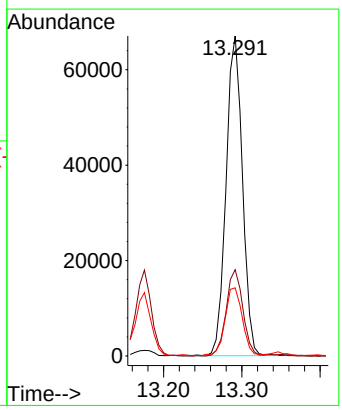
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

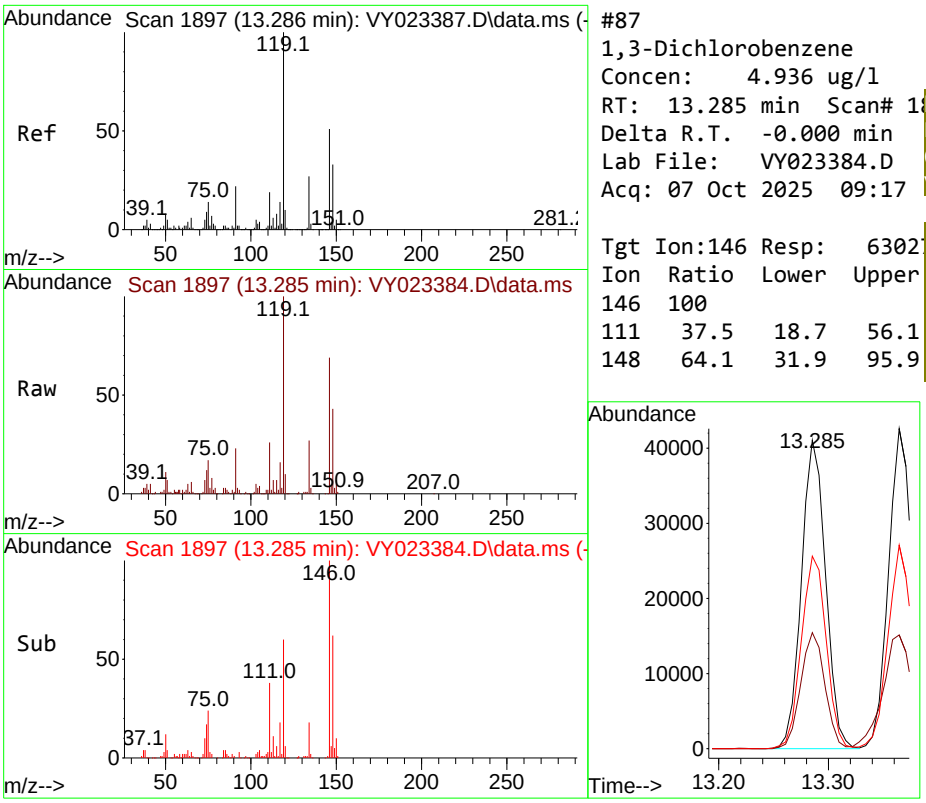


#86
p-Isopropyltoluene
Concen: 4.264 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:119 Resp: 97377

Ion	Ratio	Lower	Upper
119	100		
134	27.5	13.6	40.7
91	22.7	10.9	32.9





#87
1,3-Dichlorobenzene
Concen: 4.936 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

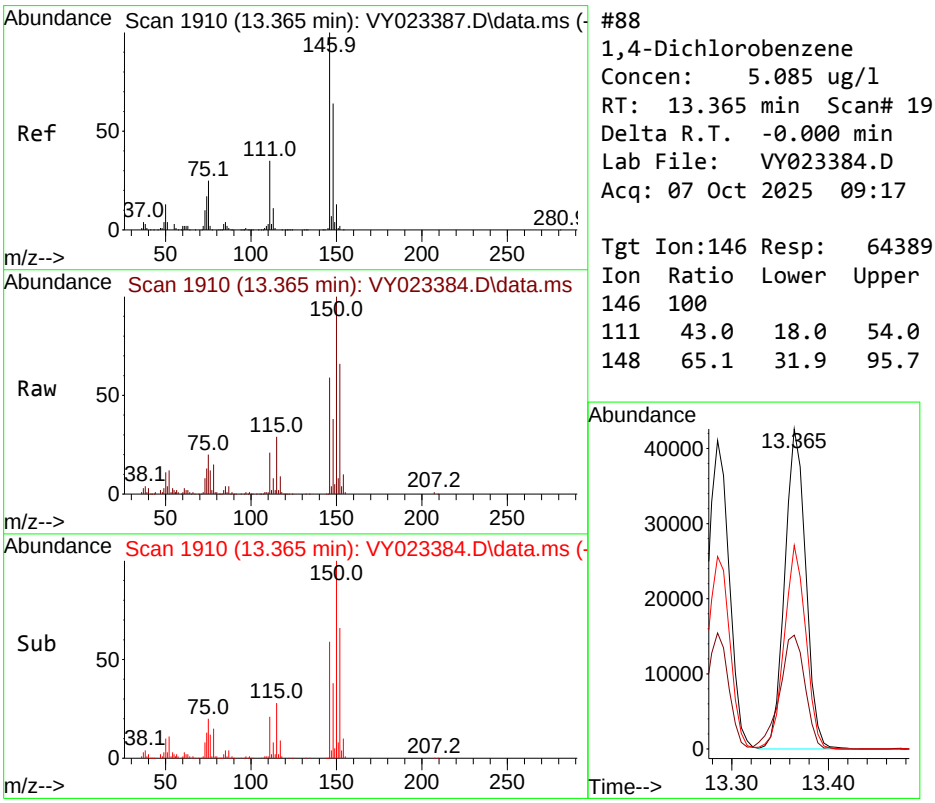
Tgt Ion:146 Resp: 6302

Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.7	56.1
148	64.1	31.9	95.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

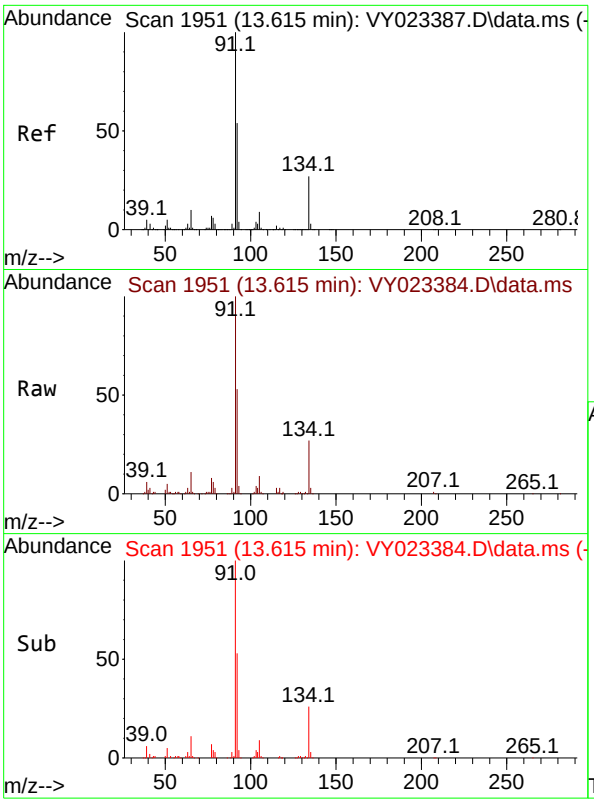
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#88
1,4-Dichlorobenzene
Concen: 5.085 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:146 Resp: 64389

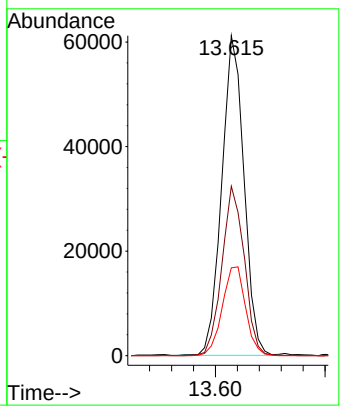
Ion	Ratio	Lower	Upper
146	100		
111	43.0	18.0	54.0
148	65.1	31.9	95.7



#89
n-Butylbenzene
Concen: 4.274 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 8617

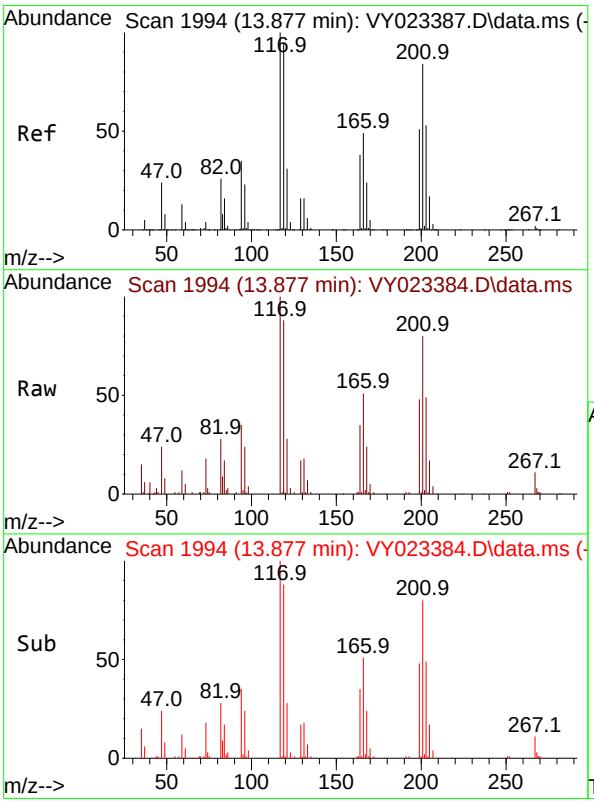
Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.0	80.8
134	29.2	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

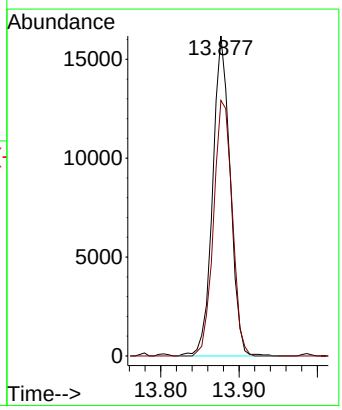
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

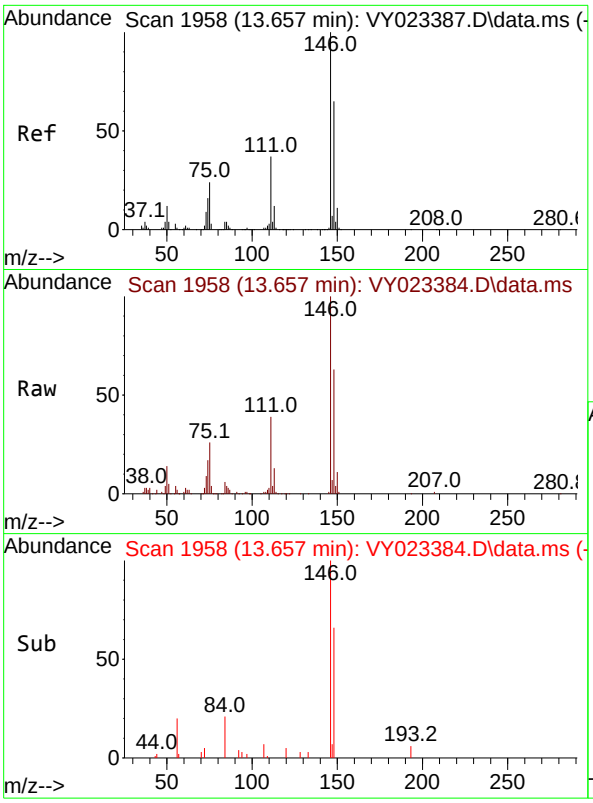


#90
Hexachloroethane
Concen: 5.084 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:117 Resp: 25204

Ion	Ratio	Lower	Upper
117	100		
201	84.7	43.8	131.4

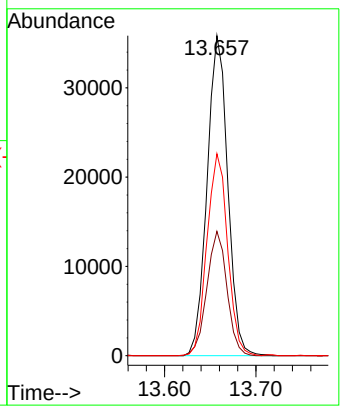




#91
1,2-Dichlorobenzene
Concen: 5.041 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:146 Resp: 5616

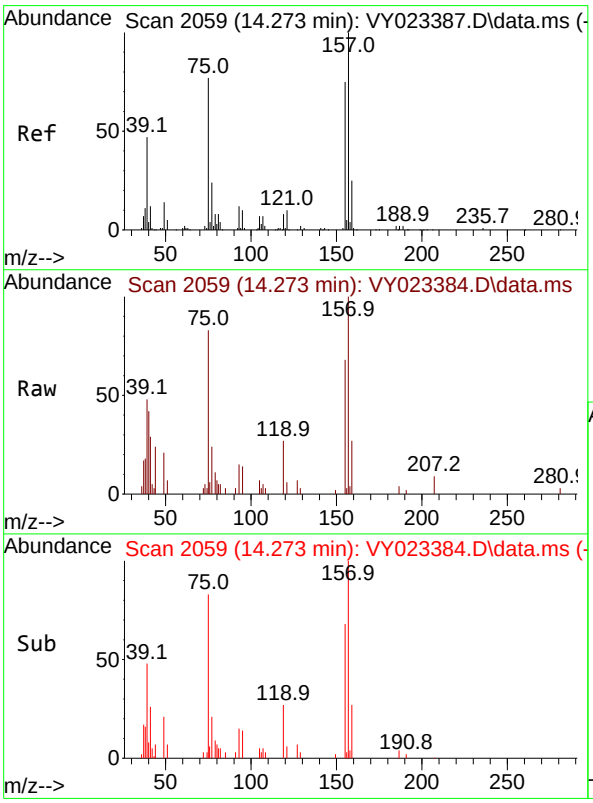
Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.0	57.0
148	63.0	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

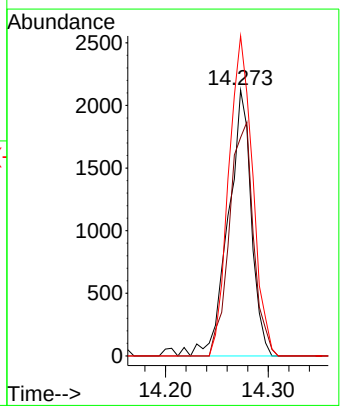
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

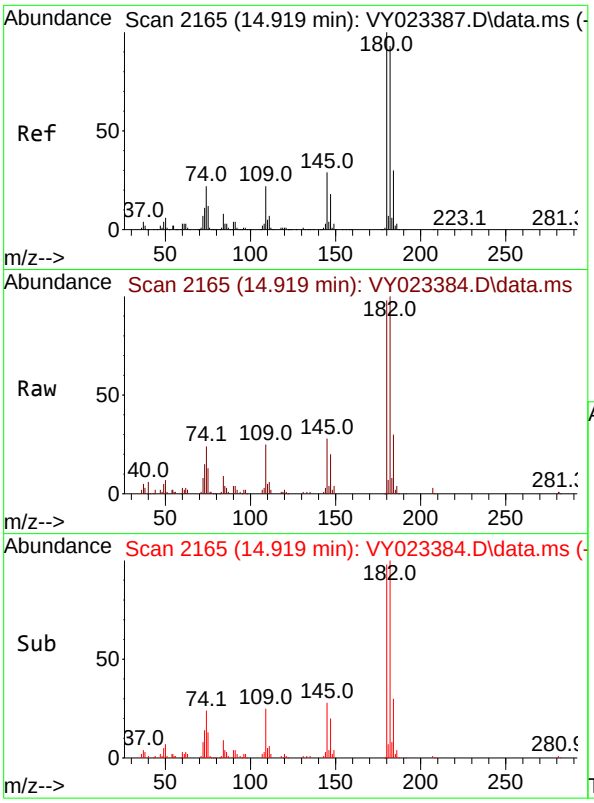


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.964 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 3305

Ion	Ratio	Lower	Upper
75	100		
155	91.7	50.0	150.0
157	124.4	63.8	191.5

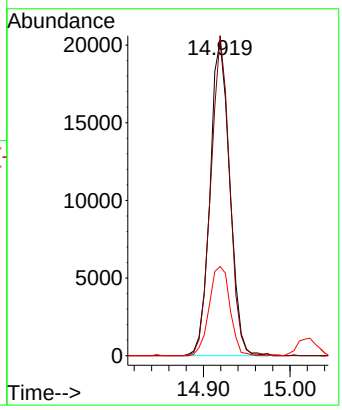




#93
1,2,4-Trichlorobenzene
Concen: 4.875 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:180 Resp: 3200

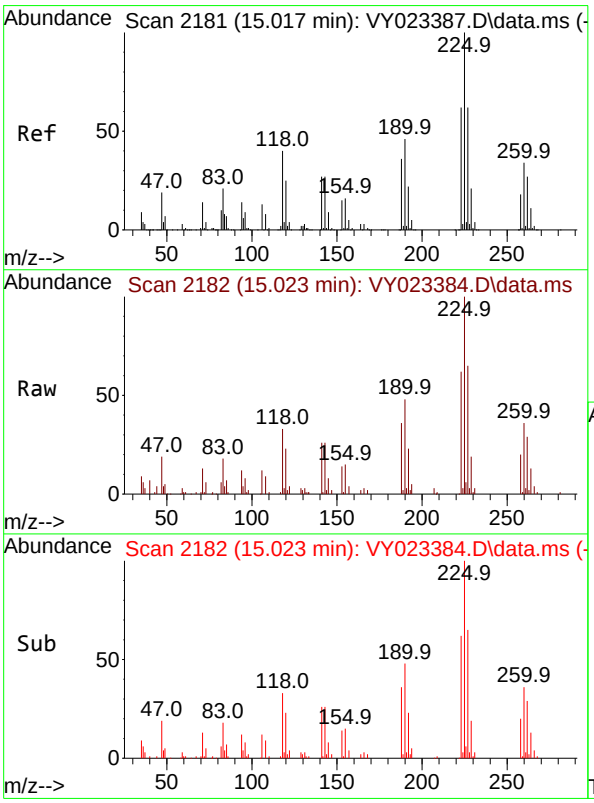
Ion	Ratio	Lower	Upper
180	100		
182	97.1	47.9	143.6
145	29.9	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

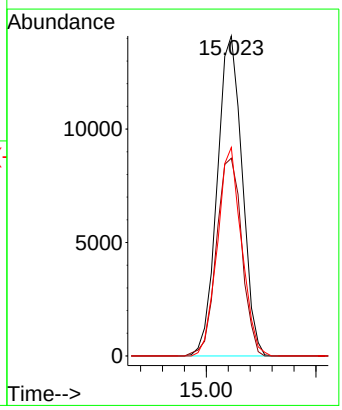
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

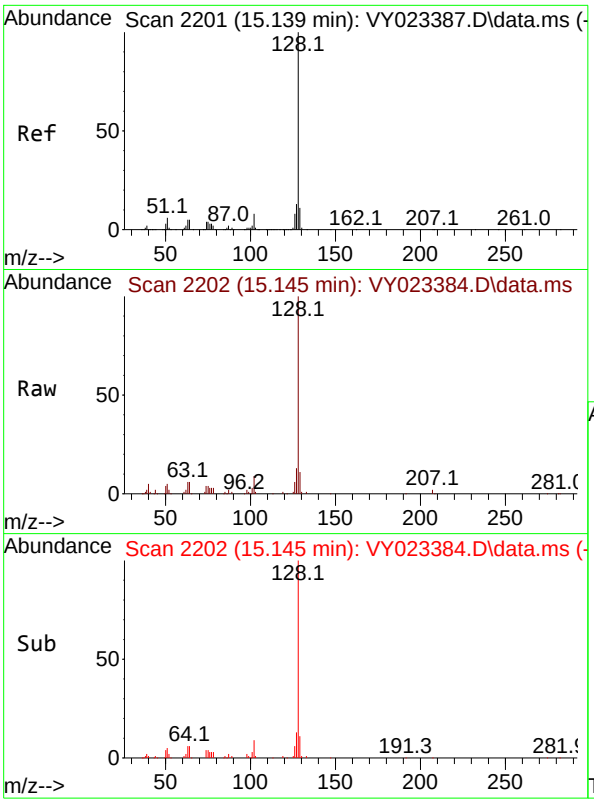


#94
Hexachlorobutadiene
Concen: 5.456 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:225 Resp: 22316

Ion	Ratio	Lower	Upper
225	100		
223	62.8	30.8	92.3
227	63.1	31.9	95.7

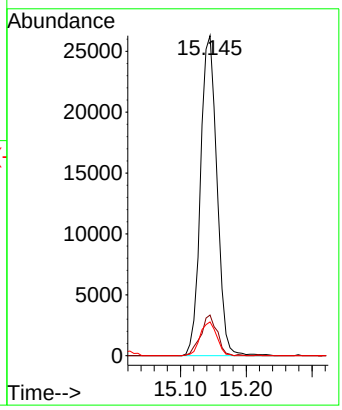




#95
Naphthalene
Concen: 4.360 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:128 Resp: 4559

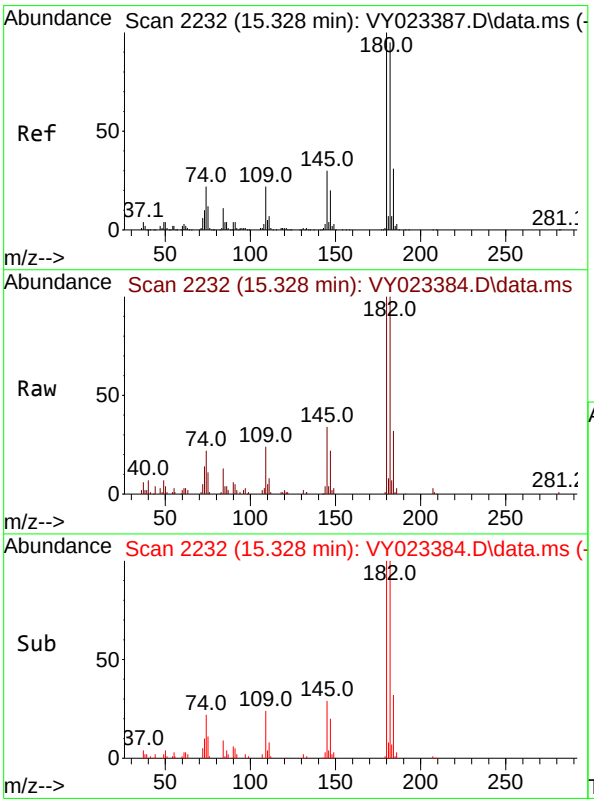
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.4	15.6
129	10.7	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

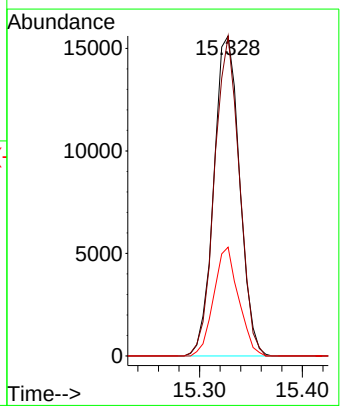
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.772 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:180 Resp: 27176

Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.9	143.8
145	32.7	15.3	45.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023385.D
Acq On : 07 Oct 2025 10:02
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:40:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.713	168	559828	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.615	114	847077	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.414	117	736152	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	374998	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.067	65	48826	10.071	ug/l		0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 20.140%#				
35) Dibromofluoromethane	7.634	113	53279	10.364	ug/l		0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 20.720%#				
50) Toluene-d8	10.109	98	198242	10.225	ug/l		0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 20.460%#				
62) 4-Bromofluorobenzene	12.401	95	62601	10.235	ug/l		0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 20.460%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.867	85	44666	10.129	ug/l		97
3) Chloromethane	2.068	50	62413	9.957	ug/l		97
4) Vinyl Chloride	2.202	62	76587	9.676	ug/l		99
5) Bromomethane	2.592	94	66689	10.271	ug/l		90
6) Chloroethane	2.732	64	51757	9.632	ug/l		92
7) Trichlorofluoromethane	3.055	101	102972	10.128	ug/l		99
8) Diethyl Ether	3.458	74	26719	10.047	ug/l		96
9) 1,1,2-Trichlorotrifluo...	3.818	101	54405	10.011	ug/l		99
10) Methyl Iodide	4.007	142	56313	8.967	ug/l		99
11) Tert butyl alcohol	4.854	59	20540	71.998	ug/l	#	89
12) 1,1-Dichloroethene	3.793	96	53191	10.173	ug/l		98
13) Acrolein	3.653	56	24014	49.681	ug/l		94
14) Allyl chloride	4.385	41	62154	9.494	ug/l		99
15) Acrylonitrile	5.061	53	51937	49.854	ug/l		99
16) Acetone	3.872	43	65410	59.997	ug/l		94
17) Carbon Disulfide	4.104	76	153055	9.382	ug/l		100
18) Methyl Acetate	4.391	43	29725	10.728	ug/l		100
19) Methyl tert-butyl Ether	5.116	73	120347	9.830	ug/l		100
20) Methylene Chloride	4.616	84	71034	12.016	ug/l		96
21) trans-1,2-Dichloroethene	5.116	96	56465	9.710	ug/l		97
22) Diisopropyl ether	6.024	45	138589	9.547	ug/l		98
23) Vinyl Acetate	5.963	43	361478	45.300	ug/l		99
24) 1,1-Dichloroethane	5.915	63	93512	9.772	ug/l		98
25) 2-Butanone	6.890	43	75171	55.784	ug/l		92
26) 2,2-Dichloropropane	6.890	77	86325	10.153	ug/l		99
27) cis-1,2-Dichloroethene	6.896	96	65335	9.905	ug/l		99
28) Bromochloromethane	7.244	49	36132	9.733	ug/l		99
29) Tetrahydrofuran	7.262	42	38990	48.749	ug/l		99
30) Chloroform	7.421	83	102058	9.890	ug/l		99
31) Cyclohexane	7.701	56	80245	9.495	ug/l	#	88
32) 1,1,1-Trichloroethane	7.622	97	91186	9.844	ug/l		99
36) 1,1-Dichloropropene	7.835	75	69913	9.639	ug/l		99
37) Ethyl Acetate	6.988	43	27388	9.551	ug/l		96
38) Carbon Tetrachloride	7.817	117	84799	10.065	ug/l		99
39) Methylcyclohexane	9.109	83	82275	8.860	ug/l		95
40) Benzene	8.079	78	220629	9.758	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023385.D
Acq On : 07 Oct 2025 10:02
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 08 04:40:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.225	41	14344	9.632	ug/l	#	92
42) 1,2-Dichloroethane	8.158	62	58541	10.174	ug/l		99
43) Isopropyl Acetate	8.201	43	53042	9.510	ug/l		98
44) Trichloroethene	8.865	130	64537	10.171	ug/l		96
45) 1,2-Dichloropropane	9.140	63	49009	9.632	ug/l		100
46) Dibromomethane	9.231	93	30780	9.890	ug/l		99
47) Bromodichloromethane	9.426	83	78392	10.007	ug/l		99
48) Methyl methacrylate	9.225	41	23484	9.023	ug/l		97
49) 1,4-Dioxane	9.231	88	6822	211.693	ug/l		94
51) 4-Methyl-2-Pentanone	9.999	43	134746	47.165	ug/l		99
52) Toluene	10.170	92	138662	9.661	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	64315	9.559	ug/l		96
54) cis-1,3-Dichloropropene	9.853	75	77905	9.687	ug/l		98
55) 1,1,2-Trichloroethane	10.572	97	41881	10.118	ug/l		92
56) Ethyl methacrylate	10.438	69	42096	8.830	ug/l		98
57) 1,3-Dichloropropane	10.719	76	64537	9.633	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	94970m	45.535	ug/l		
59) 2-Hexanone	10.761	43	99175	50.138	ug/l		96
60) Dibromochloromethane	10.908	129	57151	10.123	ug/l		97
61) 1,2-Dibromoethane	11.011	107	38861	9.979	ug/l		99
64) Tetrachloroethene	10.646	164	76110	10.335	ug/l		98
65) Chlorobenzene	11.438	112	161155	10.074	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.517	131	57233	10.173	ug/l		98
67) Ethyl Benzene	11.517	91	251958	9.651	ug/l		98
68) m/p-Xylenes	11.627	106	198866	19.004	ug/l		99
69) o-Xylene	11.950	106	91710	9.467	ug/l		100
70) Styrene	11.969	104	151094	9.446	ug/l		99
71) Bromoform	12.133	173	35681	10.595	ug/l	#	94
73) Isopropylbenzene	12.249	105	236489	9.467	ug/l		99
74) N-amyl acetate	12.066	43	40098	8.590	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	41130	9.871	ug/l		97
76) 1,2,3-Trichloropropane	12.554	75	29944m	8.095	ug/l		
77) Bromobenzene	12.529	156	66002	10.295	ug/l		99
78) n-propylbenzene	12.590	91	275671	9.384	ug/l		100
79) 2-Chlorotoluene	12.676	91	165582	9.762	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	191799	9.445	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	13110	9.556	ug/l		99
82) 4-Chlorotoluene	12.773	91	169968	9.595	ug/l		100
83) tert-Butylbenzene	12.993	119	177250	9.579	ug/l		99
84) 1,2,4-Trimethylbenzene	13.041	105	191423	9.528	ug/l		98
85) sec-Butylbenzene	13.170	105	254134	9.483	ug/l		100
86) p-Isopropyltoluene	13.285	119	210320	9.287	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	127377	10.058	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	127757	10.172	ug/l		98
89) n-Butylbenzene	13.615	91	182116	9.107	ug/l		98
90) Hexachloroethane	13.877	117	47355	9.630	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	112325	10.165	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	7005	10.608	ug/l		94
93) 1,2,4-Trichlorobenzene	14.919	180	65050	9.992	ug/l		98
94) Hexachlorobutadiene	15.023	225	42813	10.554	ug/l		97
95) Naphthalene	15.139	128	96092	9.264	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	56499	10.004	ug/l		99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023385.D
Acq On : 07 Oct 2025 10:02
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:40:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

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

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

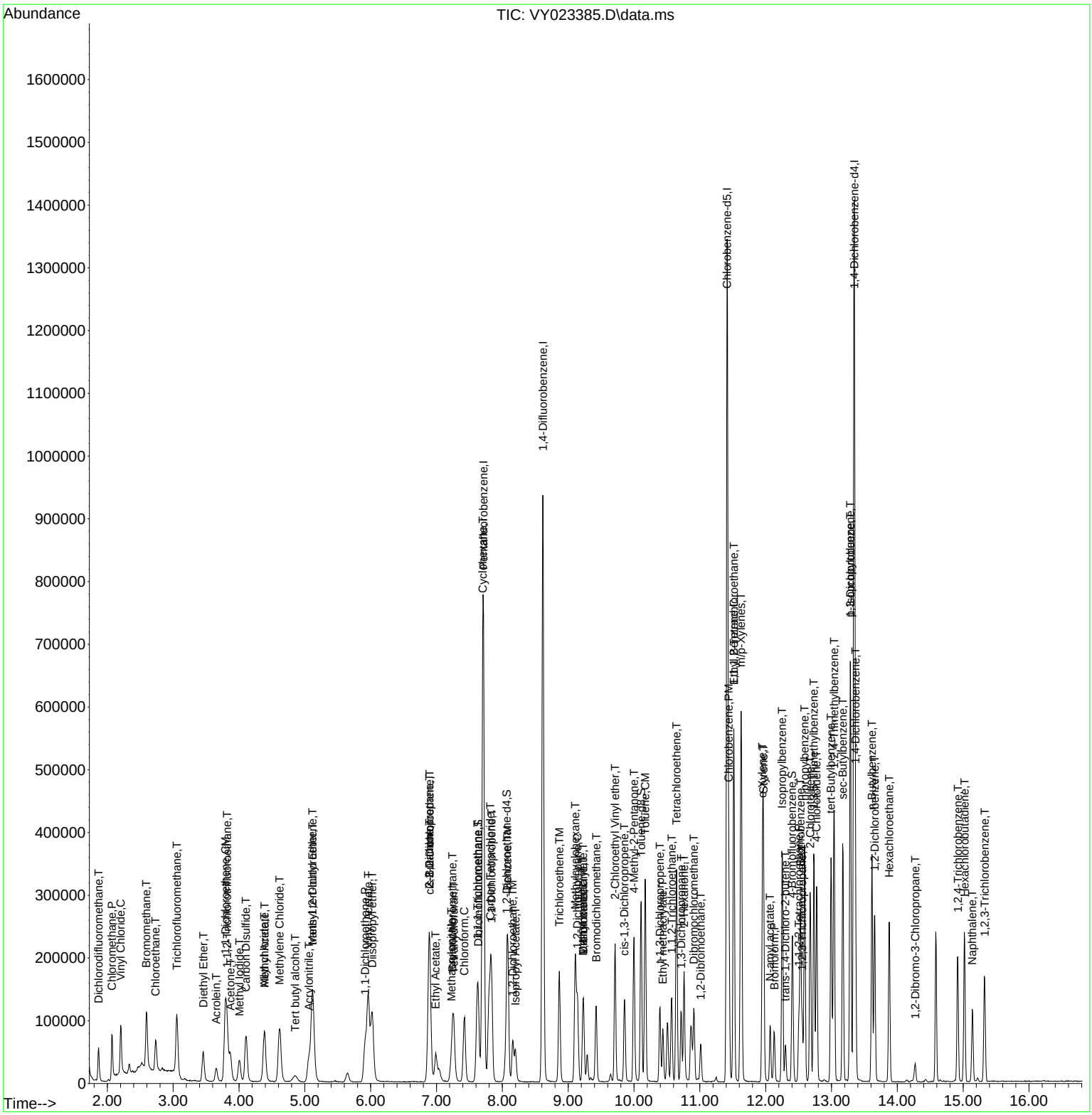
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023385.D
Acq On : 07 Oct 2025 10:02
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

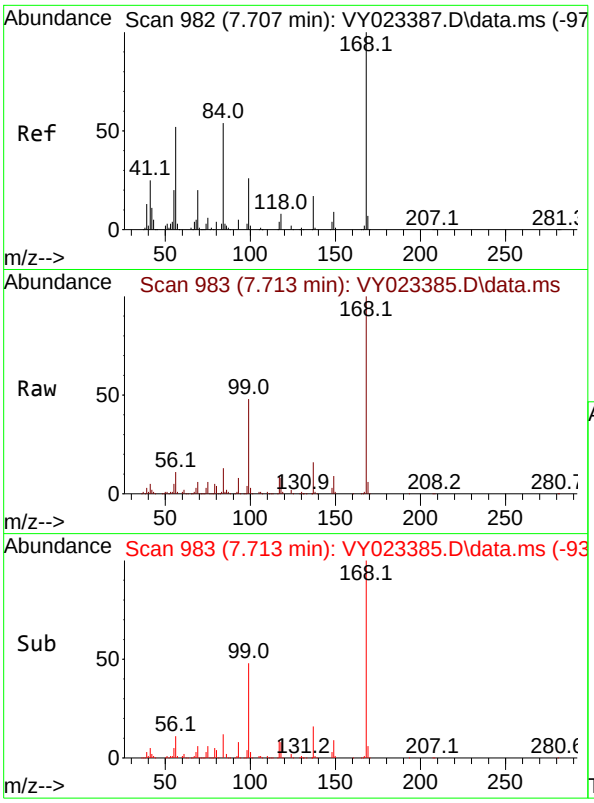
Quant Time: Oct 08 04:40:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

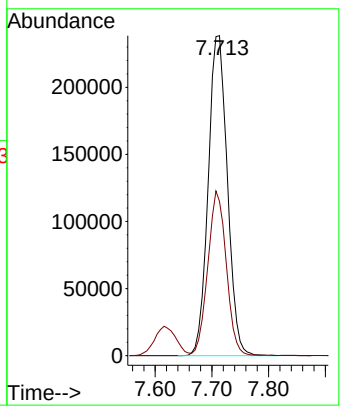




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:168 Resp: 55982

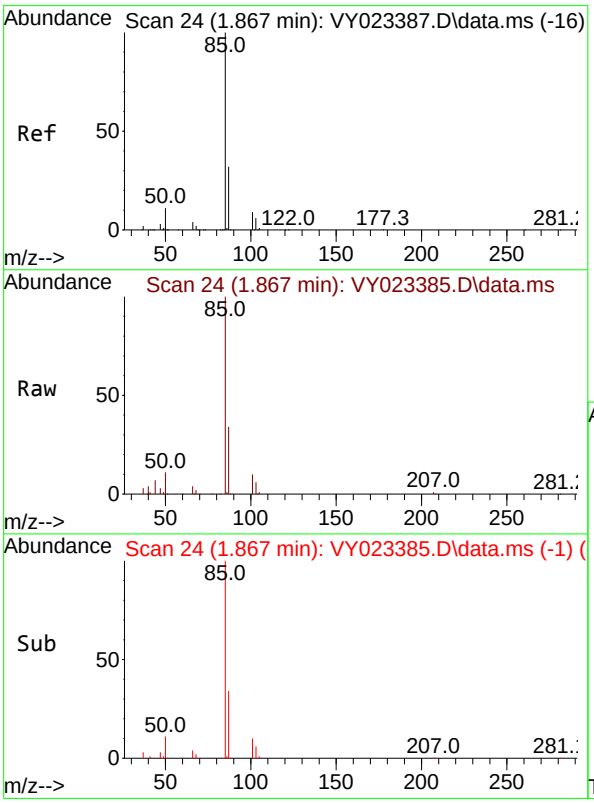
Ion	Ratio	Lower	Upper
168	100		
99	48.2	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

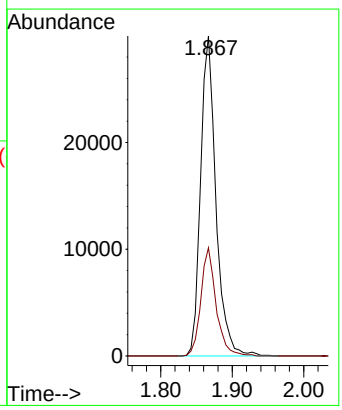
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

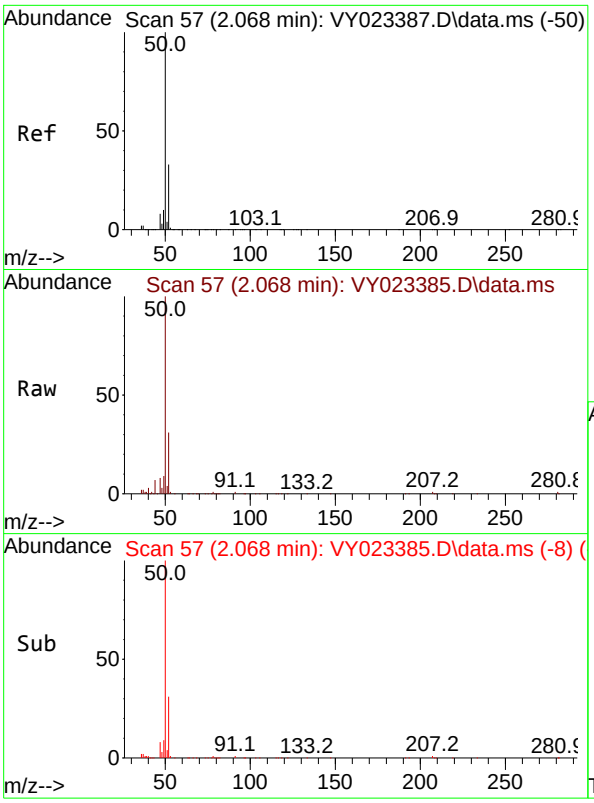


#2
Dichlorodifluoromethane
Concen: 10.129 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 85 Resp: 44666

Ion	Ratio	Lower	Upper
85	100		
87	33.8	16.0	47.9

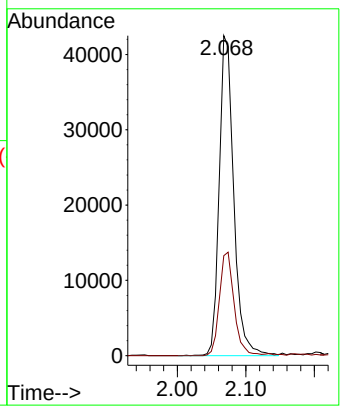




#3
Chloromethane
Concen: 9.957 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 50 Resp: 6241

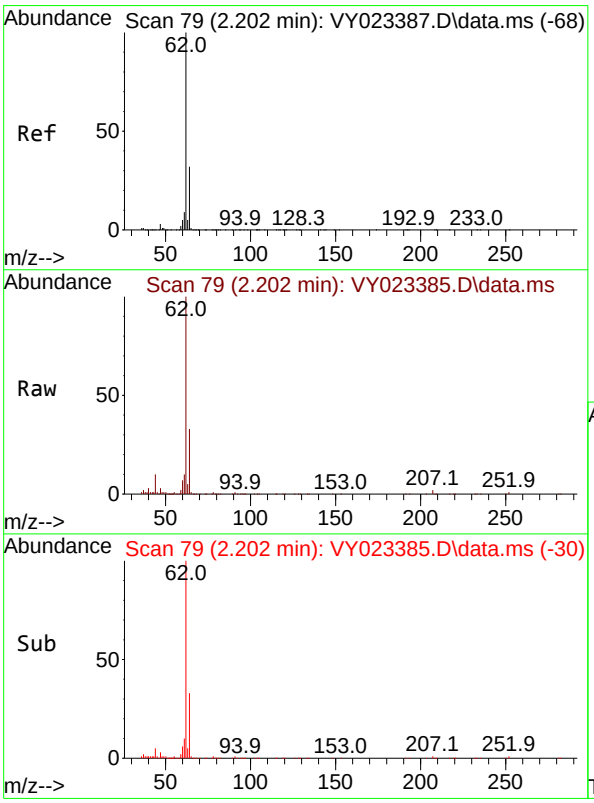
Ion	Ratio	Lower	Upper
50	100		
52	31.2	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

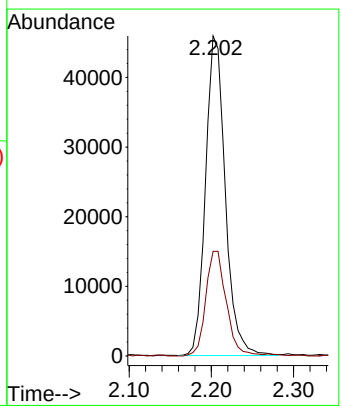
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

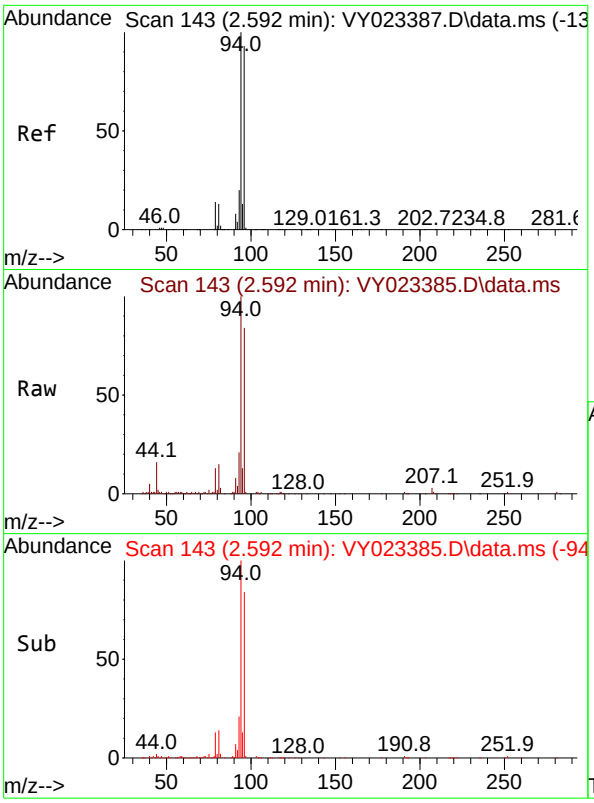


#4
Vinyl Chloride
Concen: 9.676 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 62 Resp: 76587

Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.8	38.8





#5
Bromomethane
Concen: 10.271 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

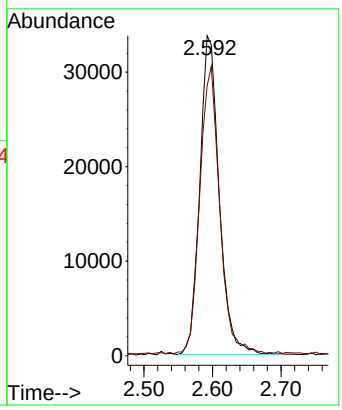
Tgt Ion: 94 Resp: 6668

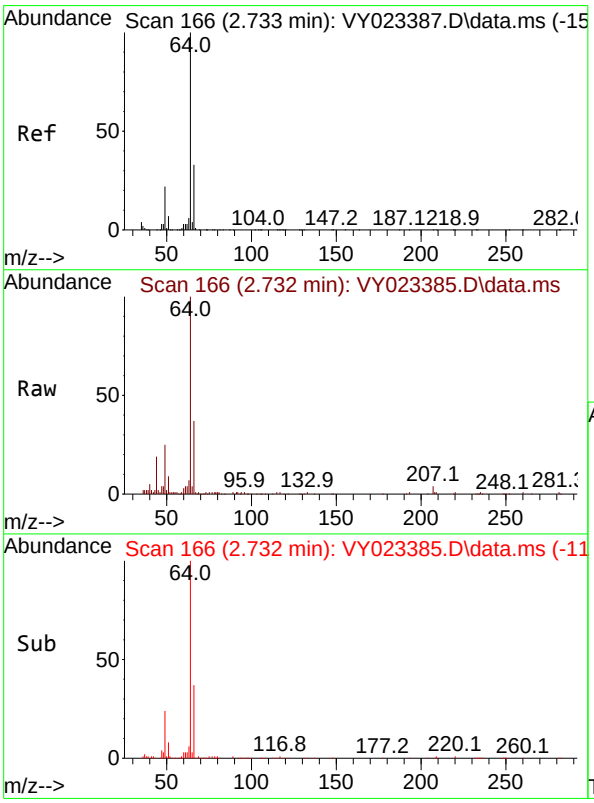
Ion	Ratio	Lower	Upper
94	100		
96	83.4	74.5	111.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

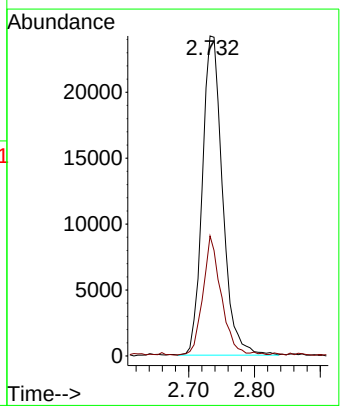


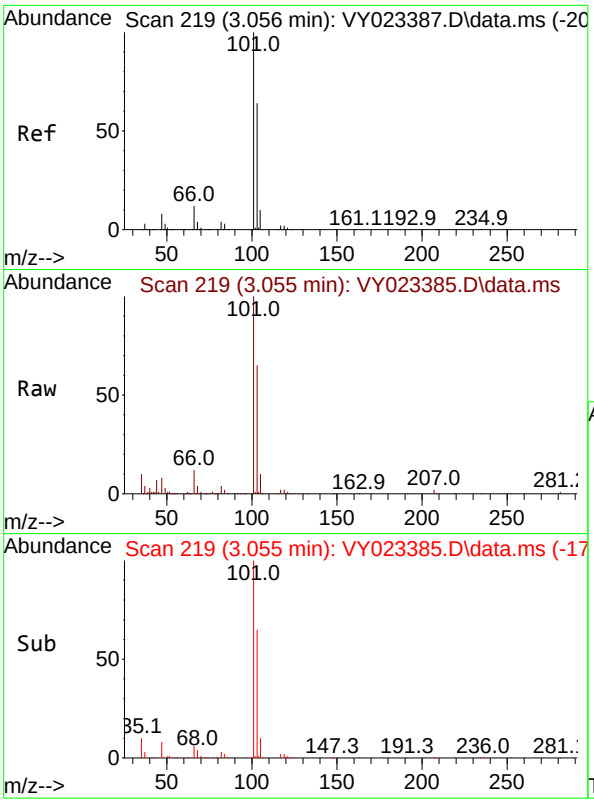


#6
Chloroethane
Concen: 9.632 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 64 Resp: 51757

Ion	Ratio	Lower	Upper
64	100		
66	37.2	26.2	39.4

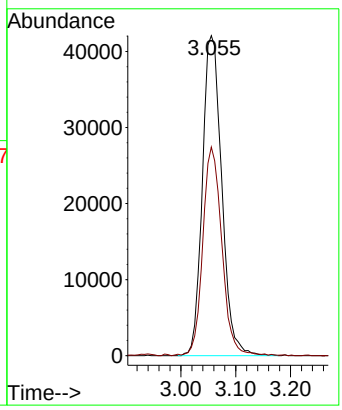




#7
Trichlorofluoromethane
Concen: 10.128 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:101 Resp: 10297

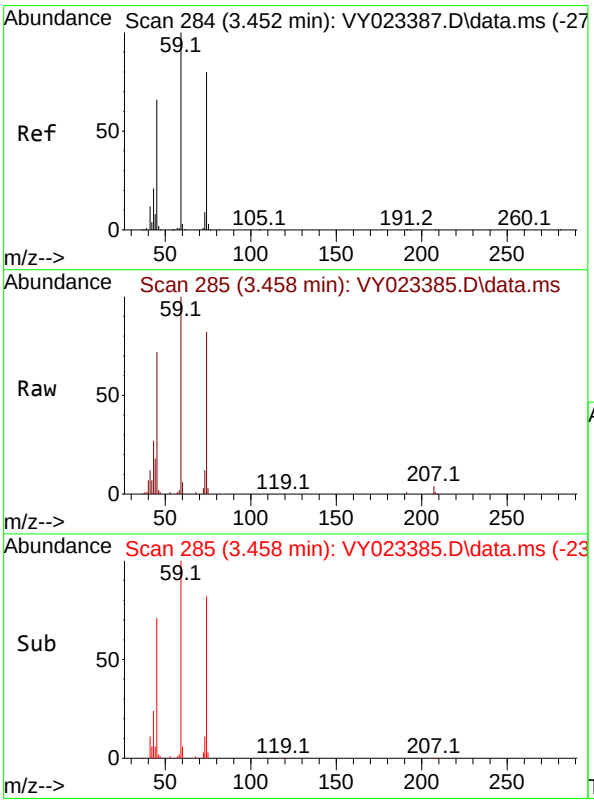
Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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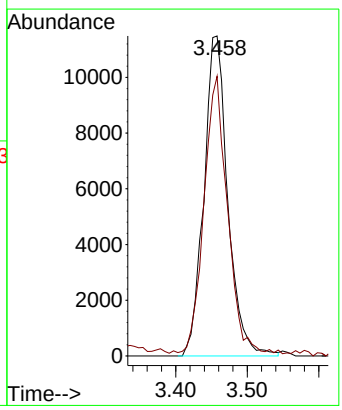
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

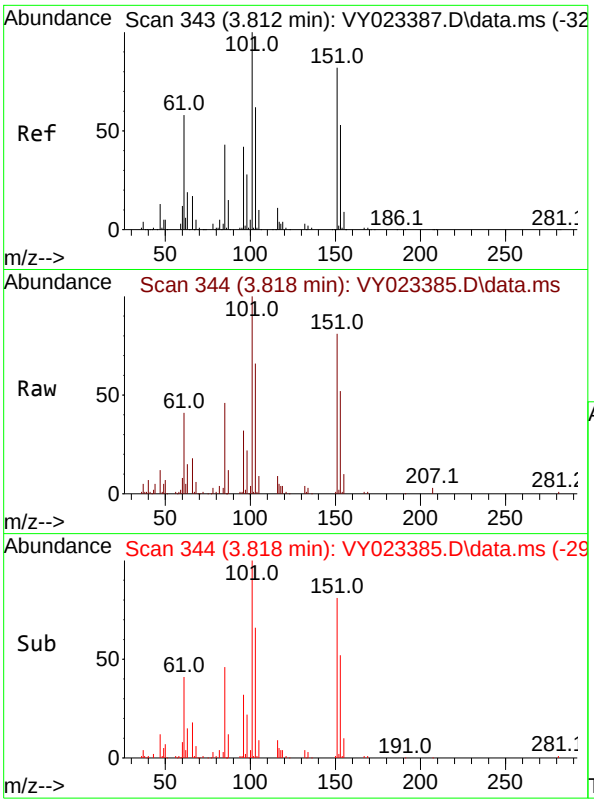


#8
Diethyl Ether
Concen: 10.047 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 74 Resp: 26719

Ion	Ratio	Lower	Upper
74	100		
45	83.5	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.011 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

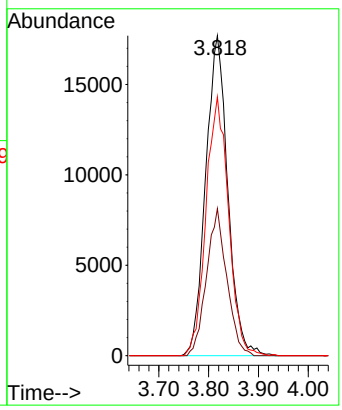
Tgt Ion:101 Resp: 5440

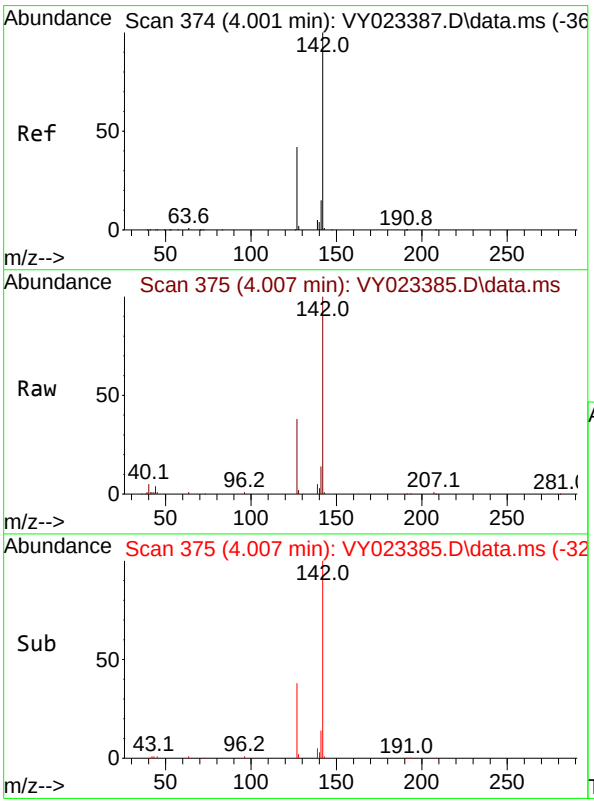
Ion	Ratio	Lower	Upper
101	100		
85	42.2	34.6	51.8
151	82.7	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

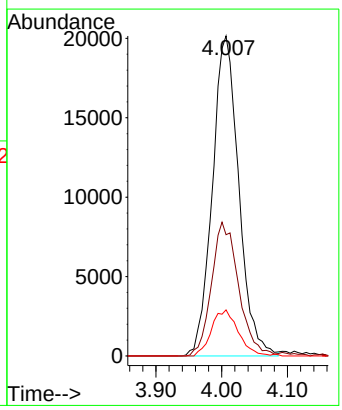


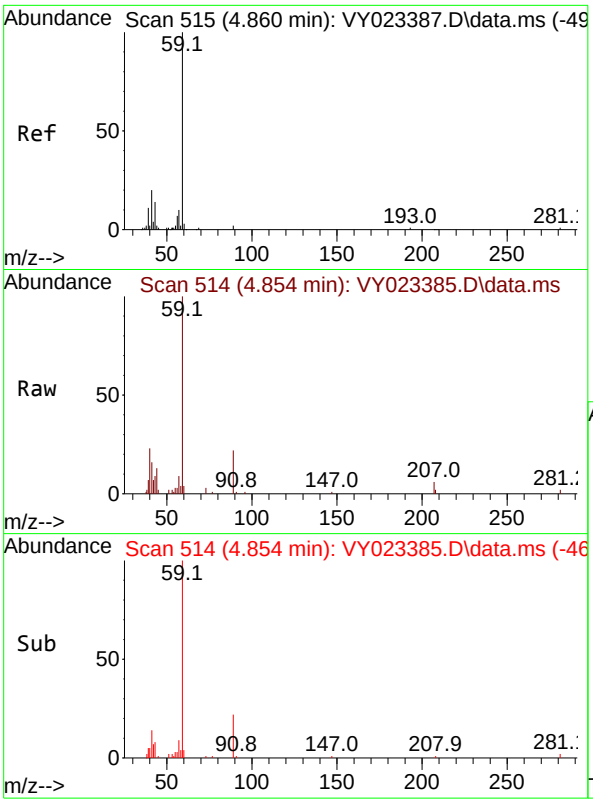


#10
Methyl Iodide
Concen: 8.967 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:142 Resp: 56313

Ion	Ratio	Lower	Upper
142	100		
127	42.9	34.8	52.2
141	14.6	11.6	17.4

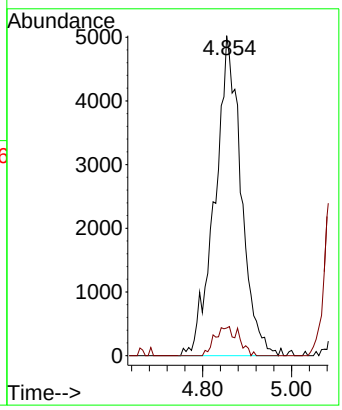




#11
Tert butyl alcohol
Concen: 71.998 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 59 Resp: 2054

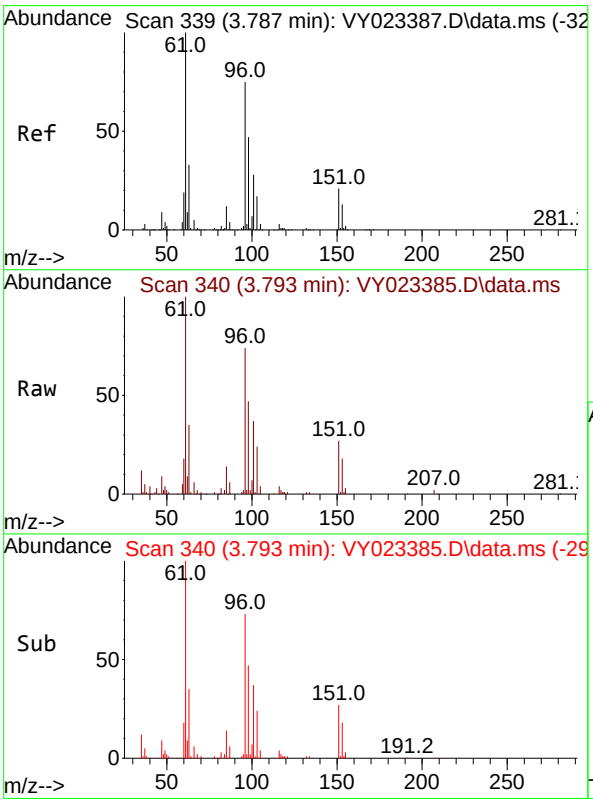
Ion	Ratio	Lower	Upper
59	100		
57	6.3	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

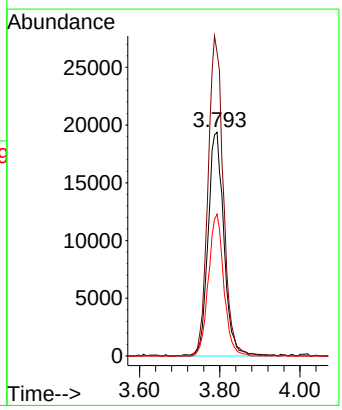
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

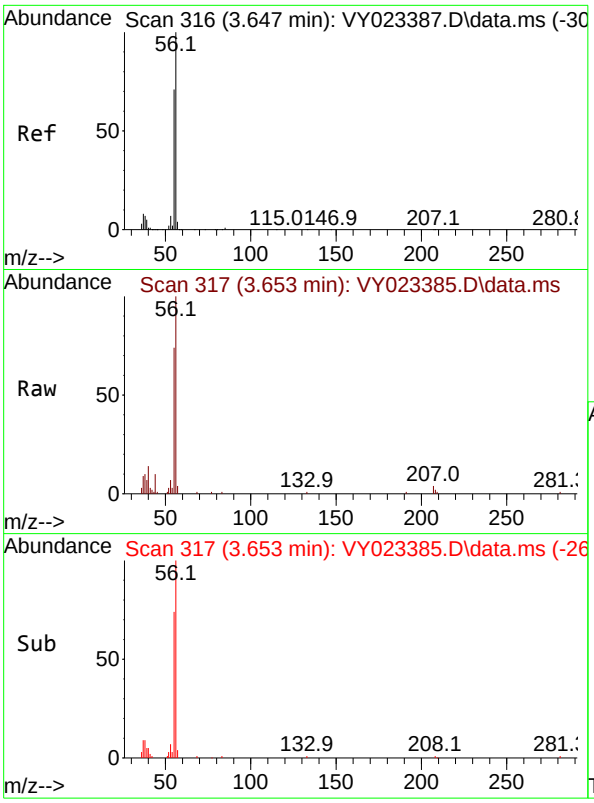


#12
1,1-Dichloroethene
Concen: 10.173 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 96 Resp: 53191

Ion	Ratio	Lower	Upper
96	100		
61	135.7	106.7	160.1
98	63.4	50.2	75.4

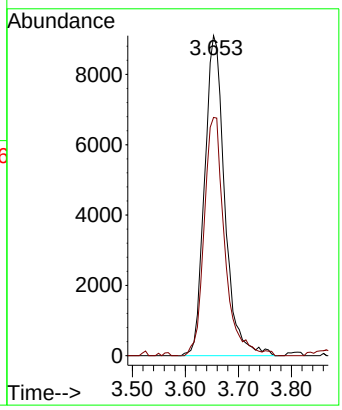




#13
Acrolein
Concen: 49.681 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 56 Resp: 2401

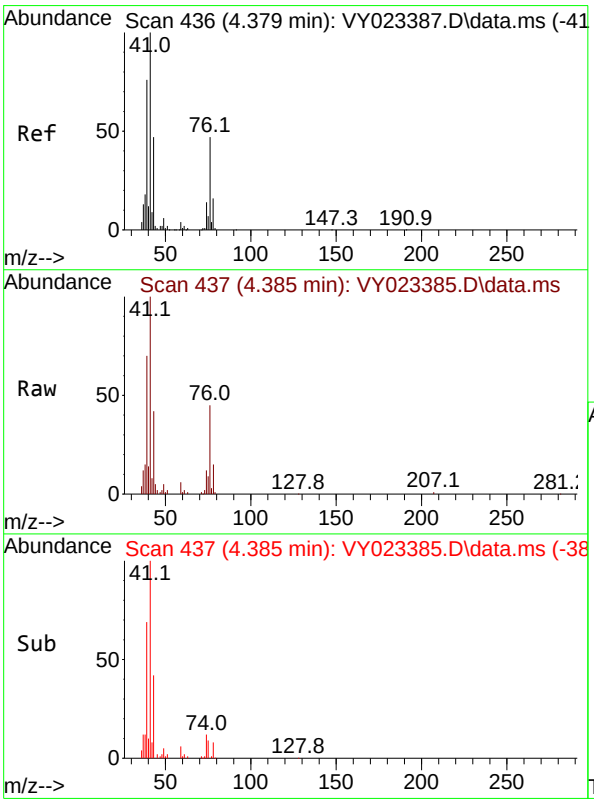
Ion	Ratio	Lower	Upper
56	100		
55	75.2	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

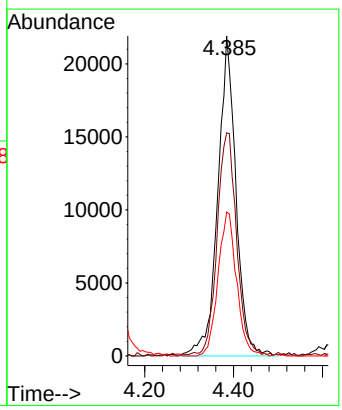
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

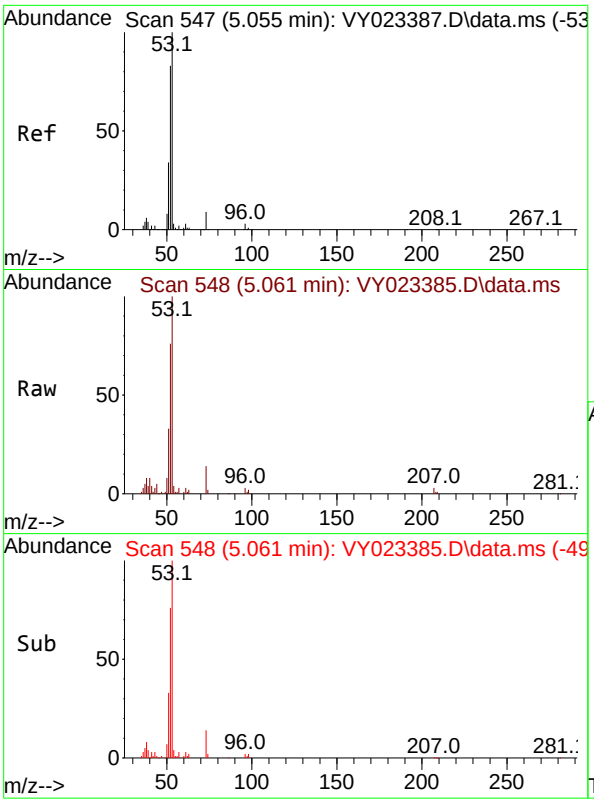


#14
Allyl chloride
Concen: 9.494 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 41 Resp: 62154

Ion	Ratio	Lower	Upper
41	100		
39	74.2	59.9	89.9
76	45.9	38.0	57.0

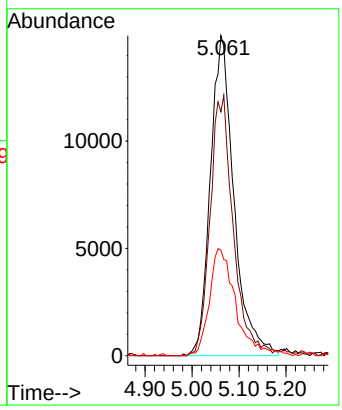




#15
Acrylonitrile
Concen: 49.854 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 53 Resp: 5193

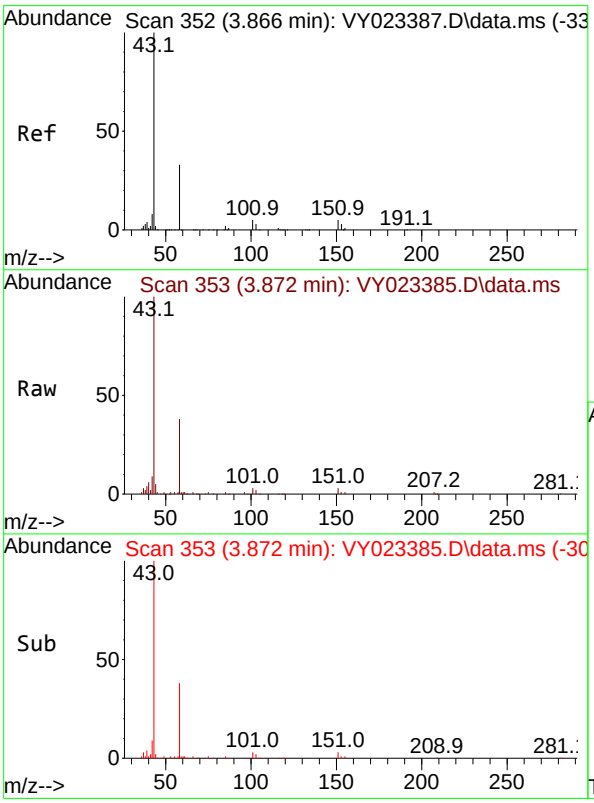
Ion	Ratio	Lower	Upper
53	100		
52	79.5	64.6	97.0
51	37.4	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

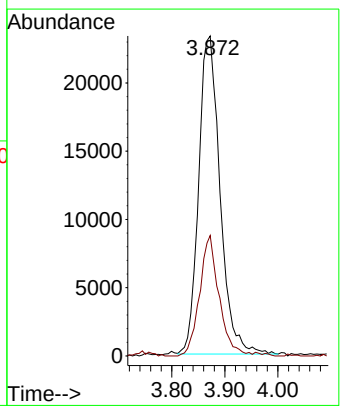
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

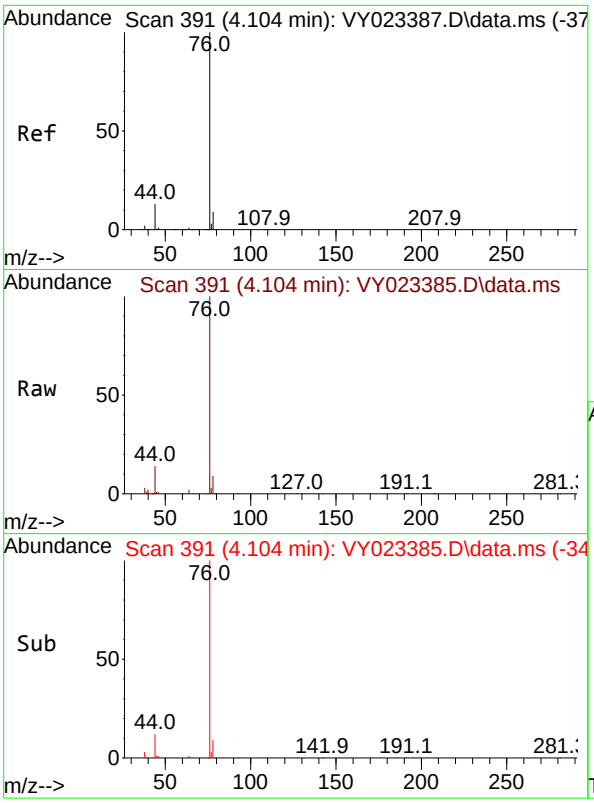


#16
Acetone
Concen: 59.997 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 65410

Ion	Ratio	Lower	Upper
43	100		
58	37.9	27.7	41.5

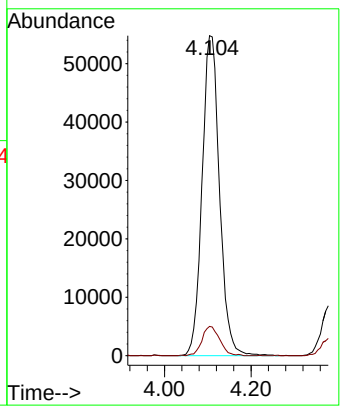




#17
Carbon Disulfide
Concen: 9.382 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 76 Resp: 15305

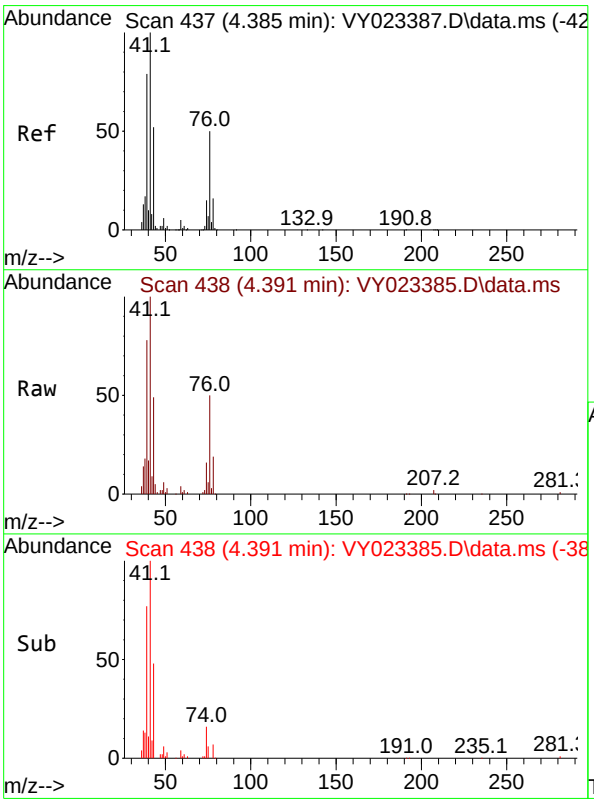
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

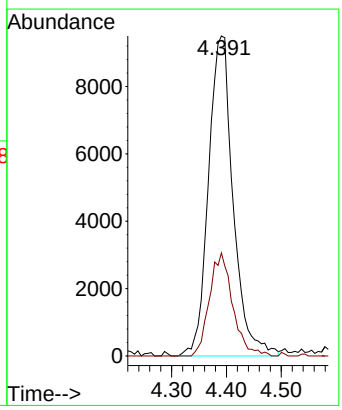
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

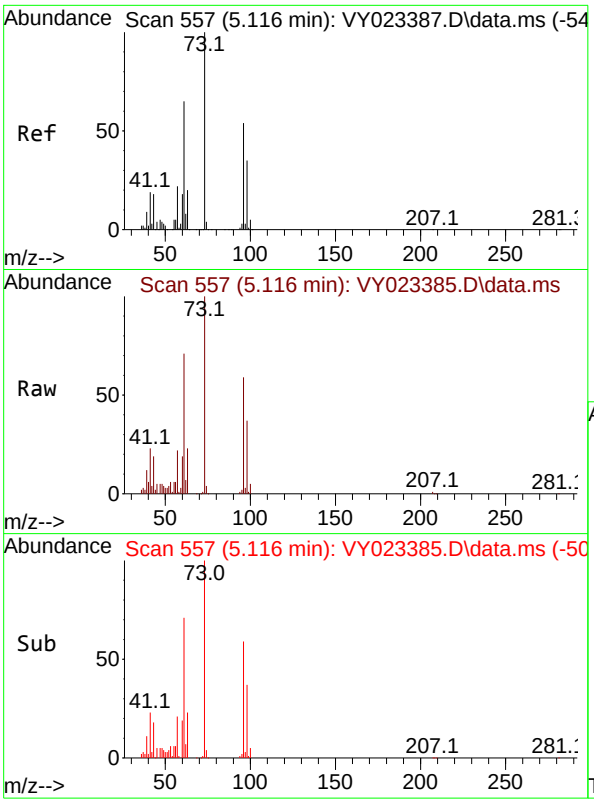


#18
Methyl Acetate
Concen: 10.728 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 29725

Ion	Ratio	Lower	Upper
43	100		
74	30.3	24.2	36.4

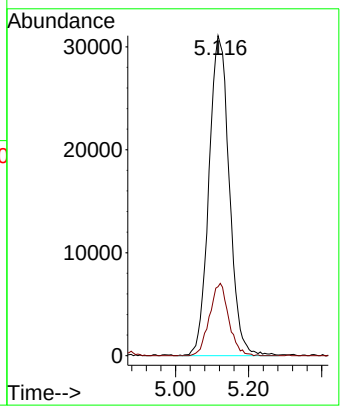




#19
Methyl tert-butyl Ether
Concen: 9.830 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 73 Resp: 12034

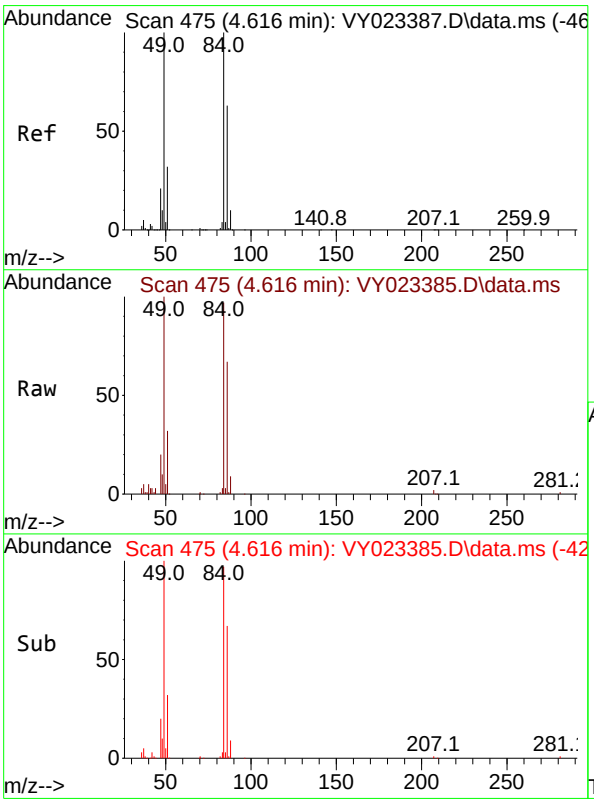
Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

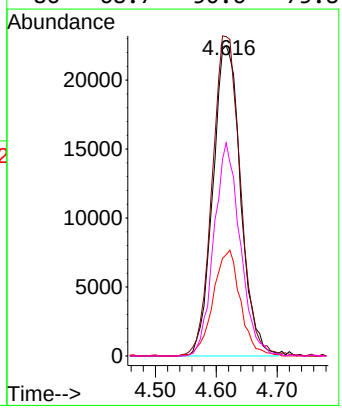
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

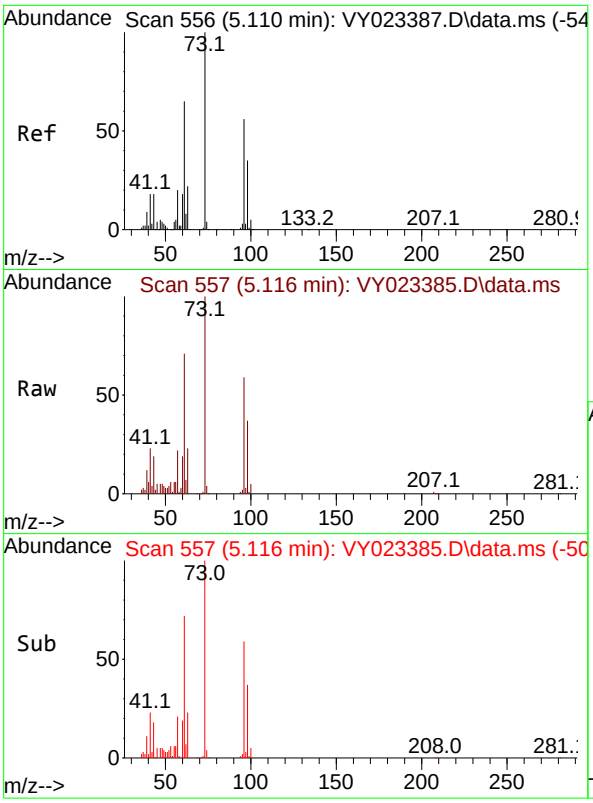


#20
Methylene Chloride
Concen: 12.016 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 84 Resp: 71034

Ion	Ratio	Lower	Upper
84	100		
49	102.9	80.2	120.4
51	32.6	25.9	38.9
86	68.7	50.6	75.8

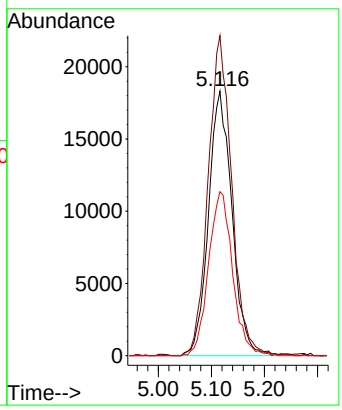




#21
trans-1,2-Dichloroethene
Concen: 9.710 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 96 Resp: 5646

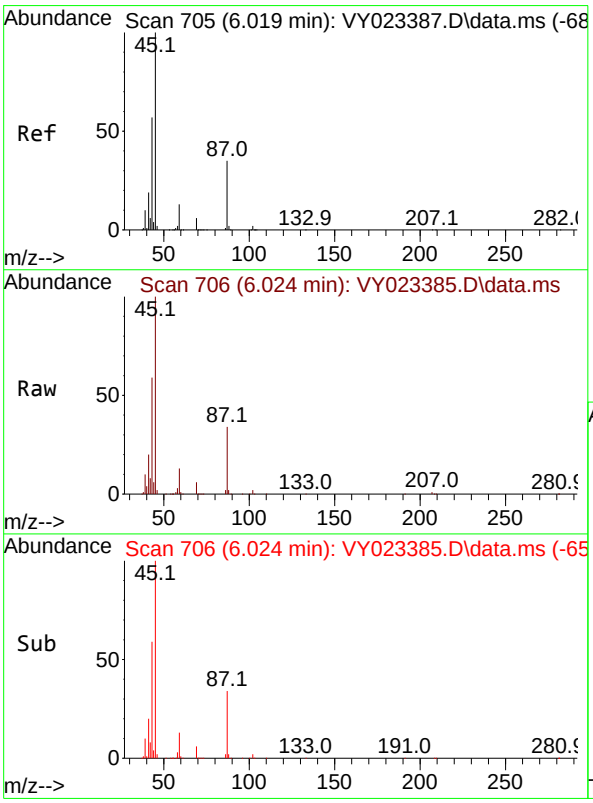
Ion	Ratio	Lower	Upper
96	100		
61	121.0	92.7	139.1
98	62.0	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

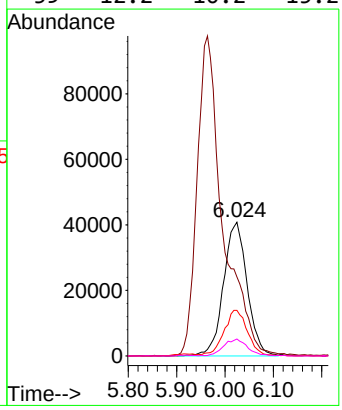
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

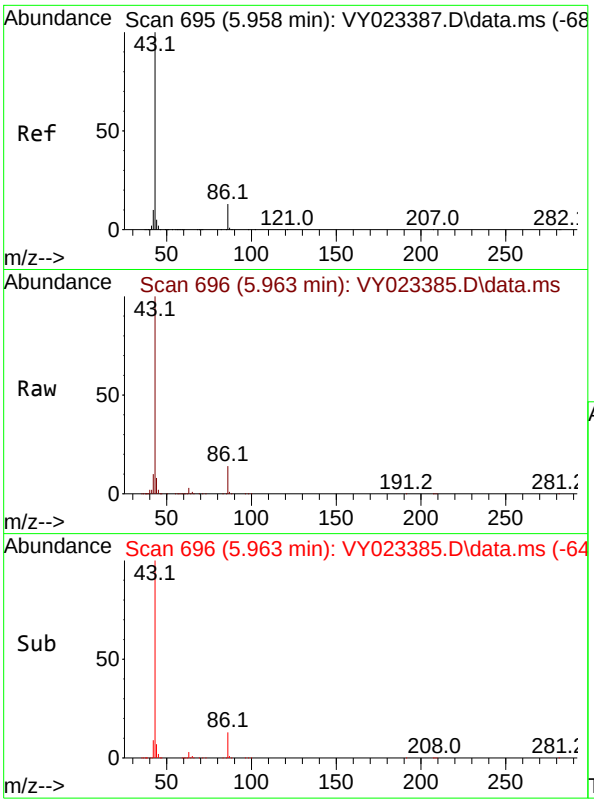


#22
Diisopropyl ether
Concen: 9.547 ug/l
RT: 6.024 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 45 Resp: 138589

Ion	Ratio	Lower	Upper
45	100		
43	58.2	45.6	68.4
87	33.7	28.1	42.1
59	12.2	10.2	15.2

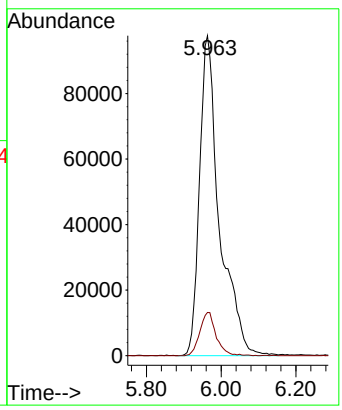




#23
Vinyl Acetate
Concen: 45.300 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 36147

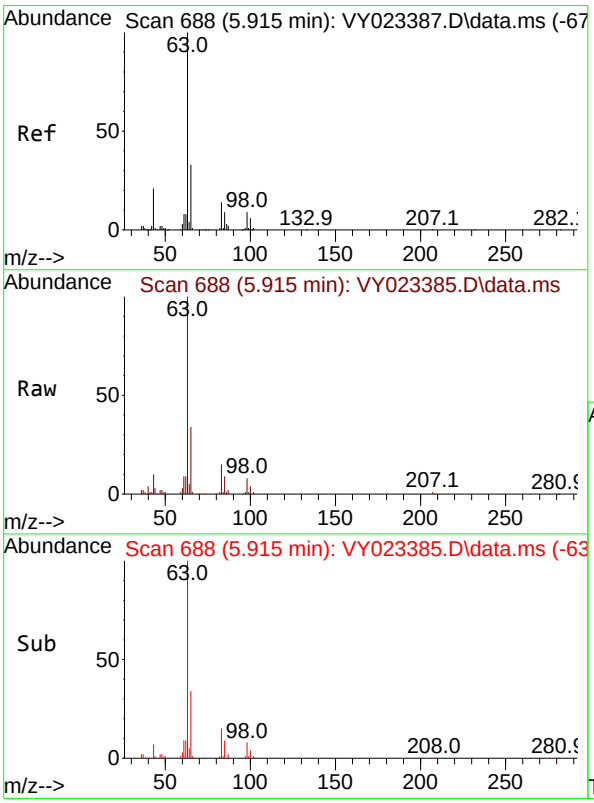
Ion	Ratio	Lower	Upper
43	100		
86	13.5	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

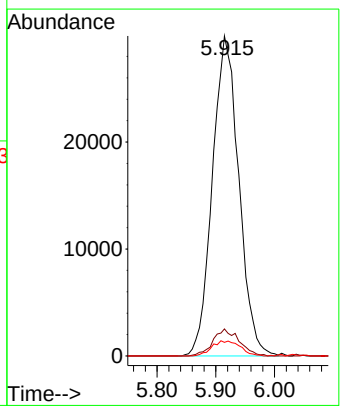
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

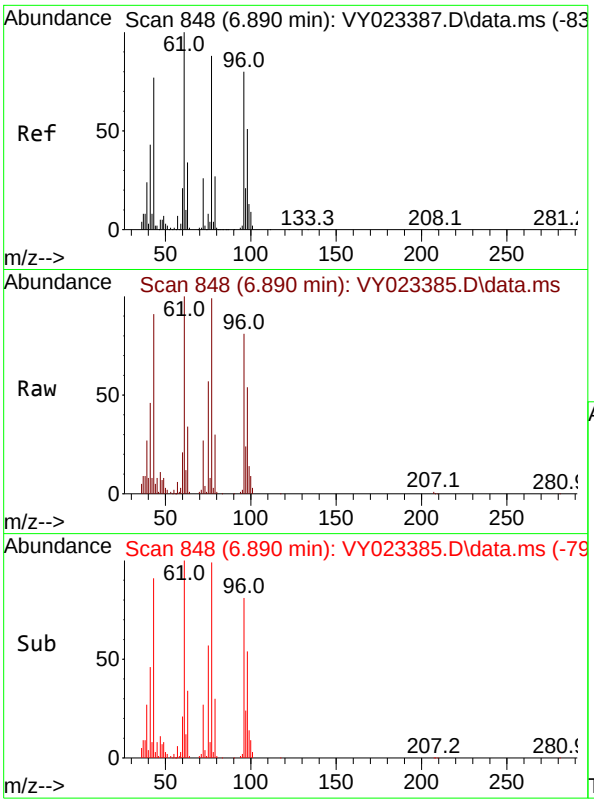


#24
1,1-Dichloroethane
Concen: 9.772 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 63 Resp: 93512

Ion	Ratio	Lower	Upper
63	100		
98	8.4	4.3	13.1
100	4.3	2.8	8.4

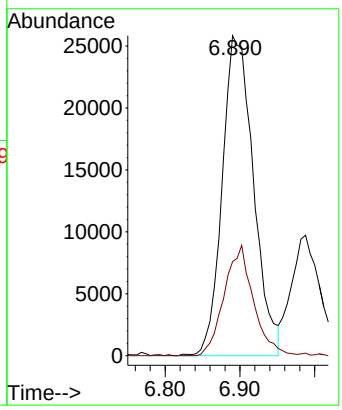




#25
2-Butanone
Concen: 55.784 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 7517

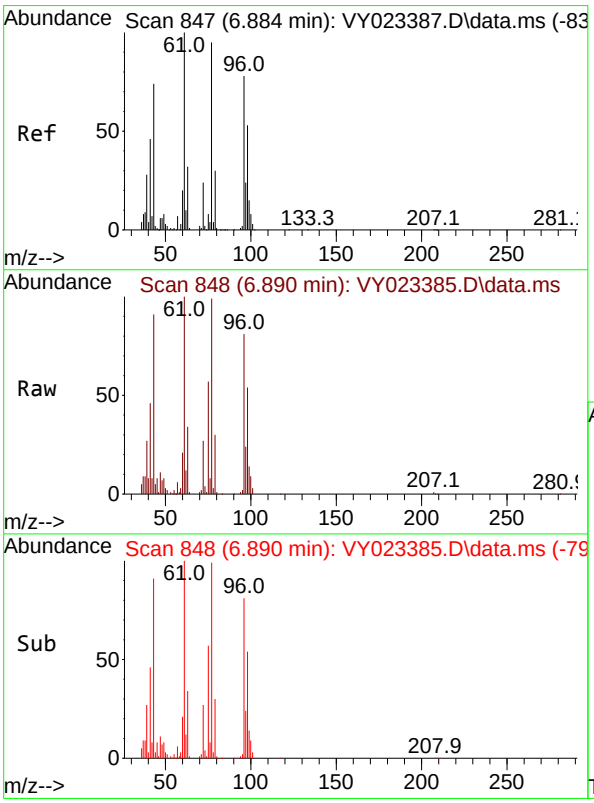
Ion	Ratio	Lower	Upper
43	100		
72	29.4	27.4	41.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

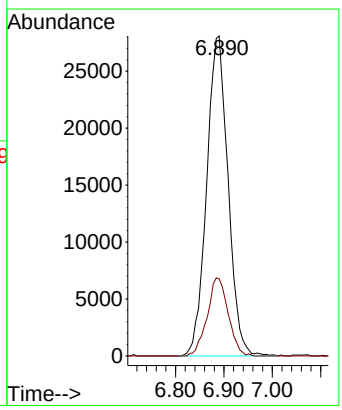
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

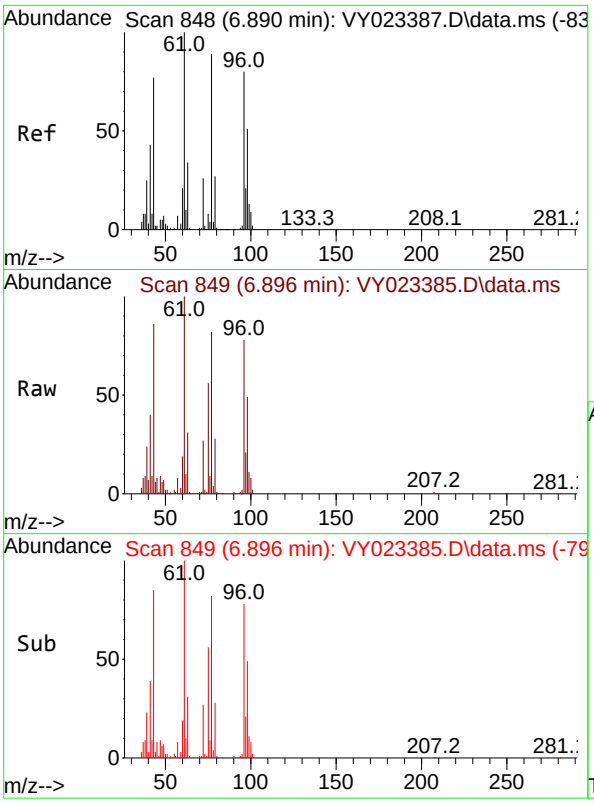


#26
2,2-Dichloropropane
Concen: 10.153 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 77 Resp: 86325

Ion	Ratio	Lower	Upper
77	100		
97	23.9	12.1	36.3

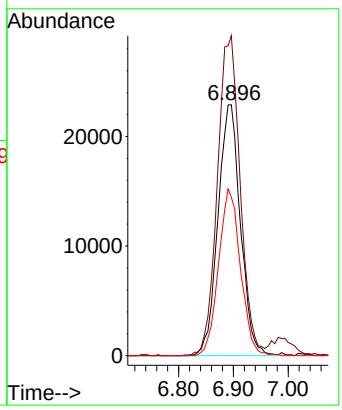




#27
cis-1,2-Dichloroethene
Concen: 9.905 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 96 Resp: 6533

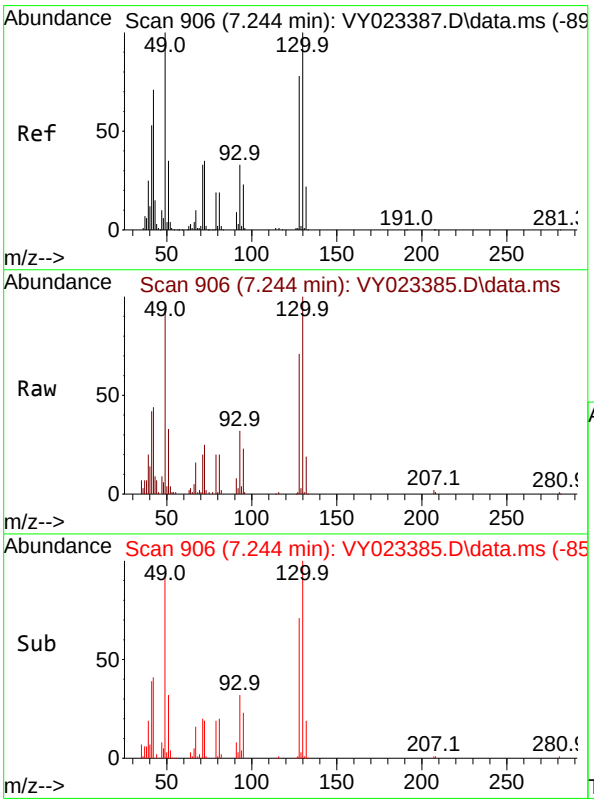
Ion	Ratio	Lower	Upper
96	100		
61	129.1	0.0	258.2
98	64.5	0.0	132.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

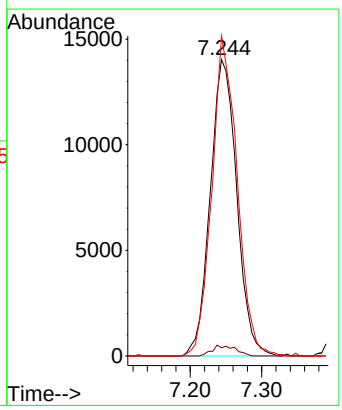
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

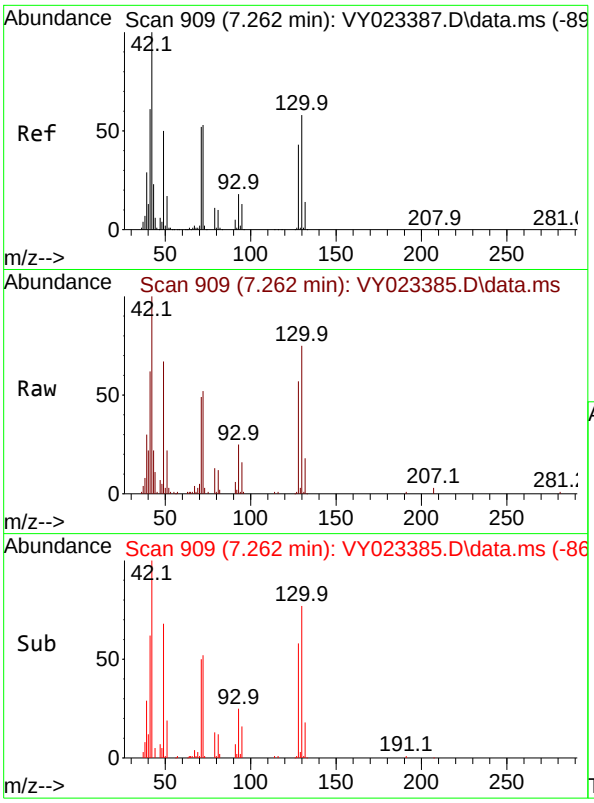


#28
Bromochloromethane
Concen: 9.733 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 49 Resp: 36132

Ion	Ratio	Lower	Upper
49	100		
129	3.1	0.0	5.6
130	103.0	81.9	122.9

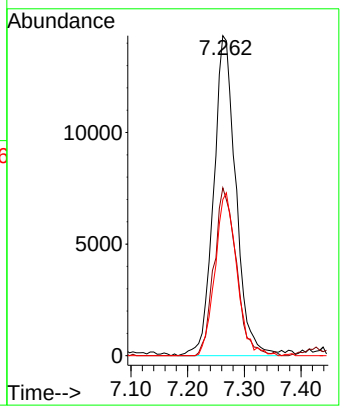




#29
Tetrahydrofuran
Concen: 48.749 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 42 Resp: 3899(

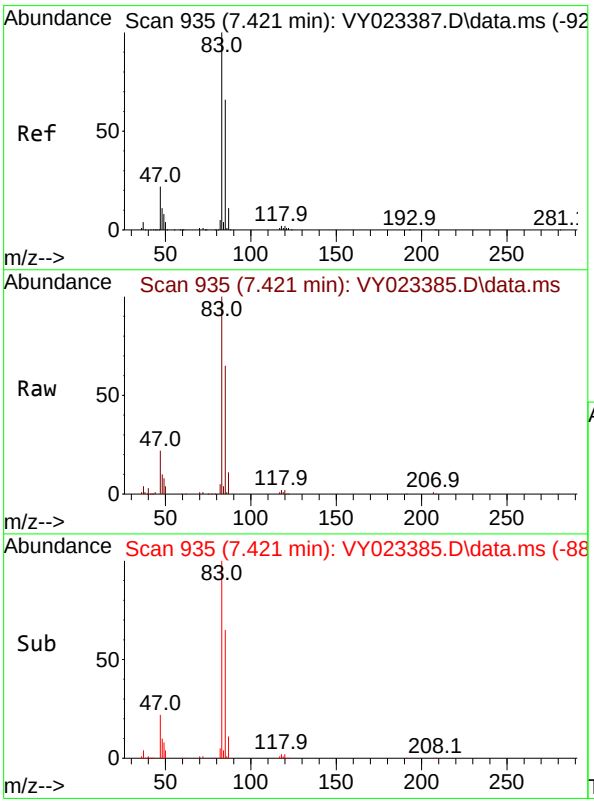
Ion	Ratio	Lower	Upper
42	100		
72	52.6	43.0	64.6
71	49.8	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

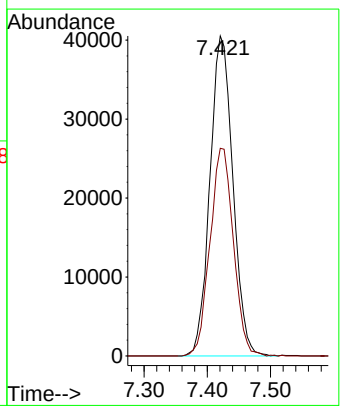
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

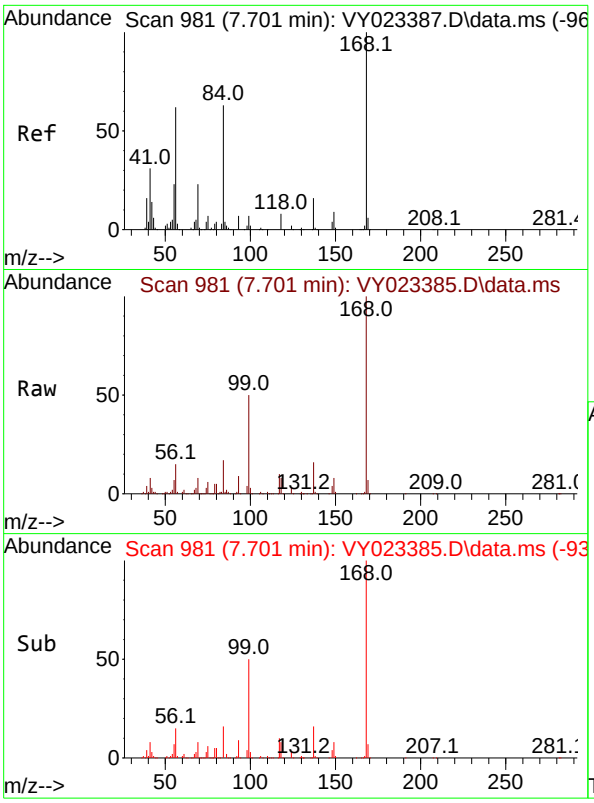


#30
Chloroform
Concen: 9.890 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 83 Resp: 102058

Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.5	78.7

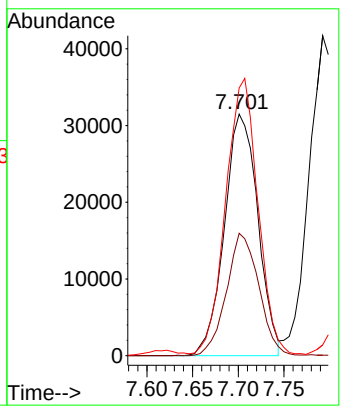




#31
Cyclohexane
Concen: 9.495 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 56 Resp: 8024

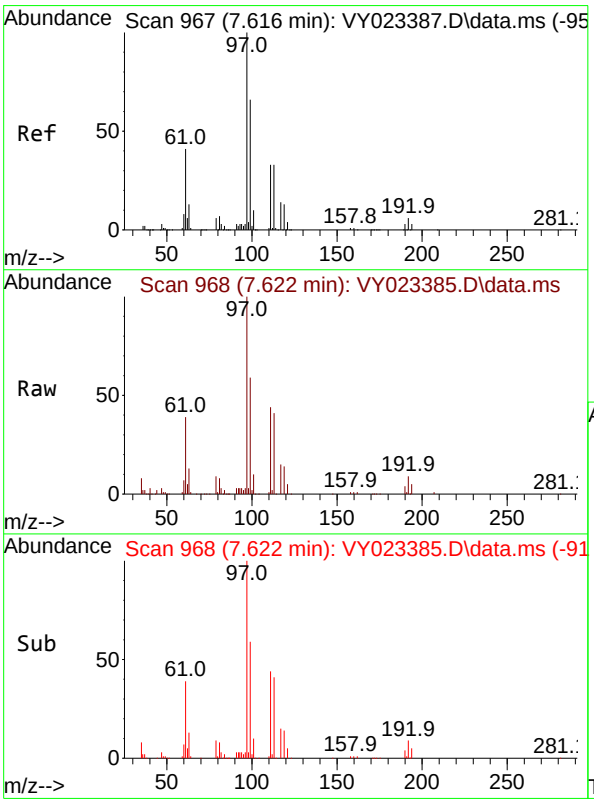
Ion	Ratio	Lower	Upper
56	100		
69	50.5	30.0	45.0
84	109.7	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

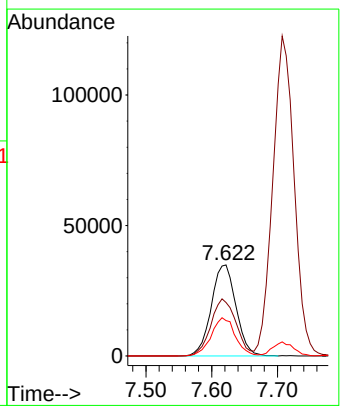
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

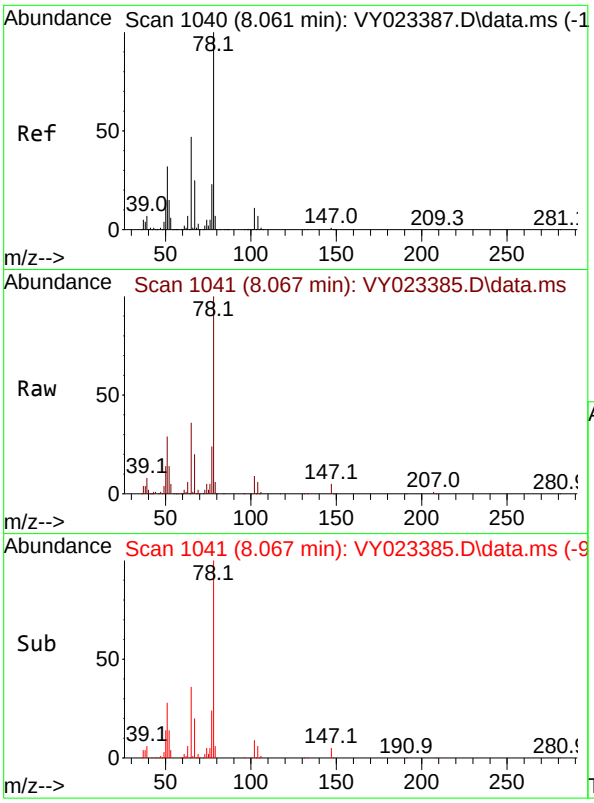


#32
1,1,1-Trichloroethane
Concen: 9.844 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 97 Resp: 91186

Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.4	77.2
61	41.0	31.9	47.9

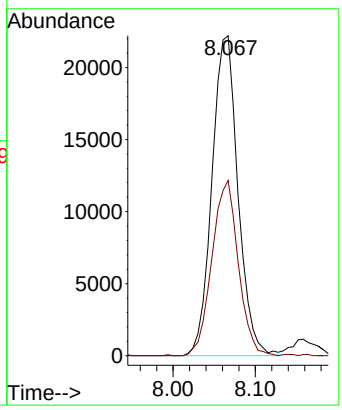




#33
1,2-Dichloroethane-d4
Concen: 10.071 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 65 Resp: 4882

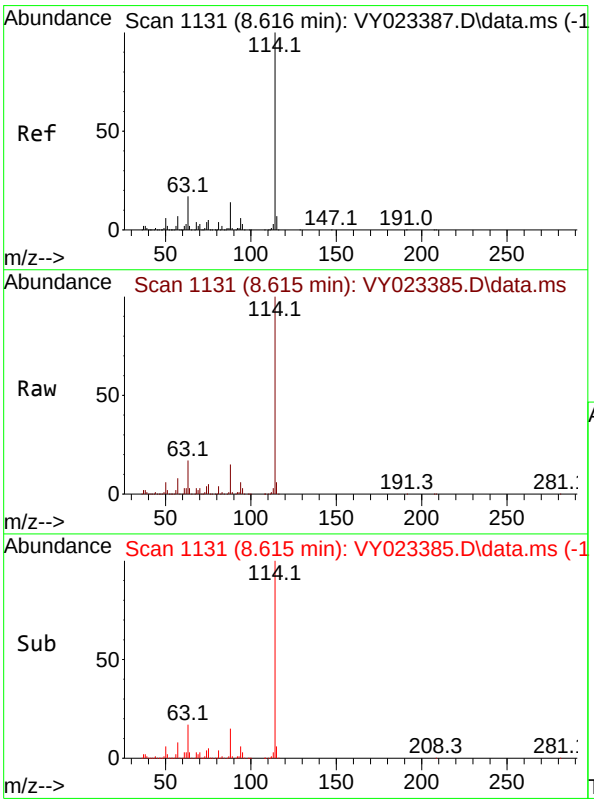
Ion	Ratio	Lower	Upper
65	100		
67	55.4	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

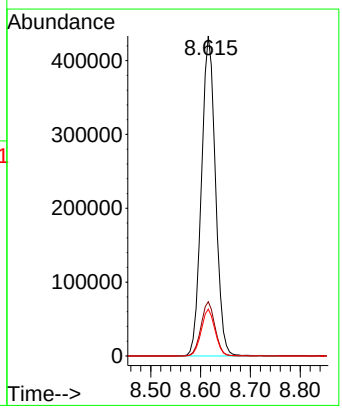
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

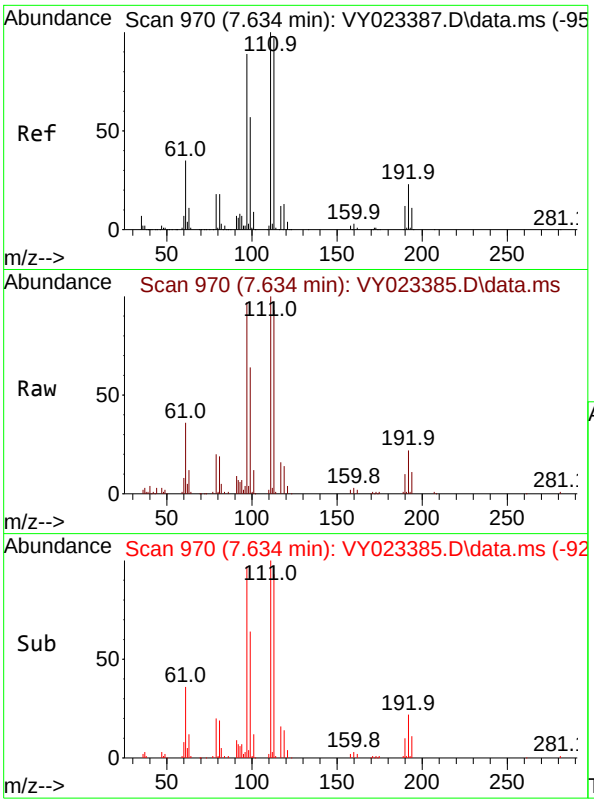


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:114 Resp: 847077

Ion	Ratio	Lower	Upper
114	100		
63	16.9	0.0	34.2
88	14.7	0.0	28.4

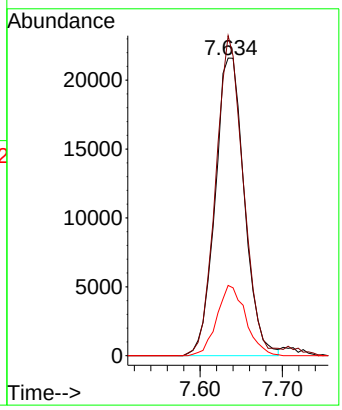




#35
Dibromofluoromethane
Concen: 10.364 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:113 Resp: 5327

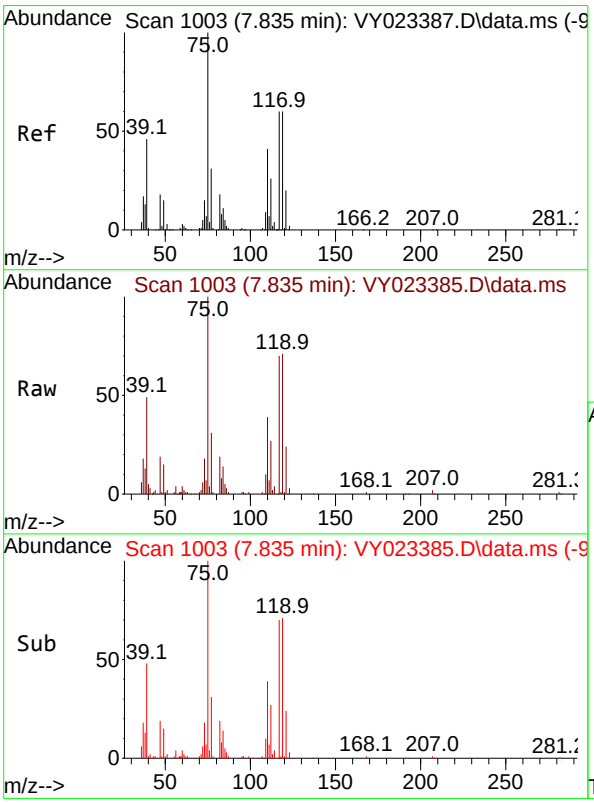
Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.8	122.6
192	23.3	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

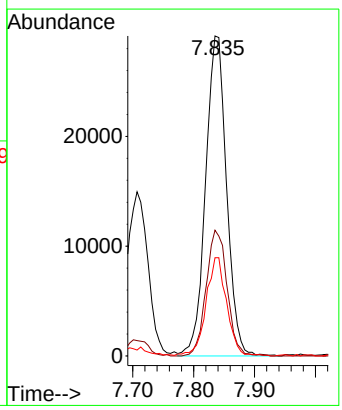
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

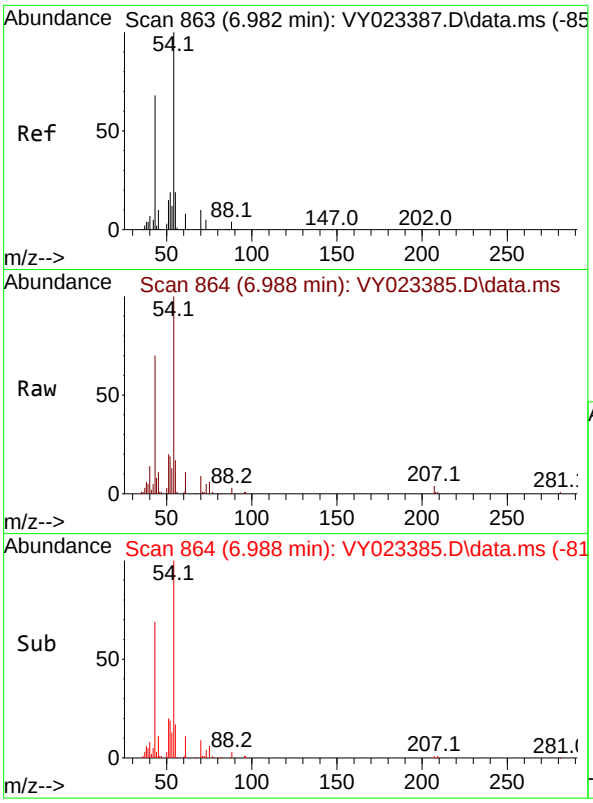


#36
1,1-Dichloropropene
Concen: 9.639 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 69913

Ion	Ratio	Lower	Upper
75	100		
110	39.2	19.9	59.7
77	30.4	25.0	37.6

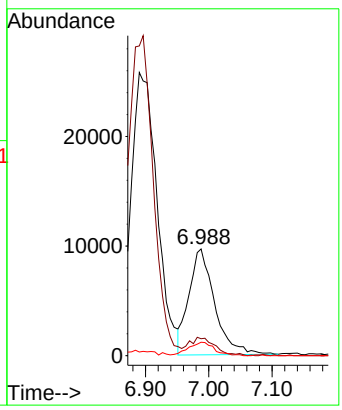




#37
Ethyl Acetate
Concen: 9.551 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 2738

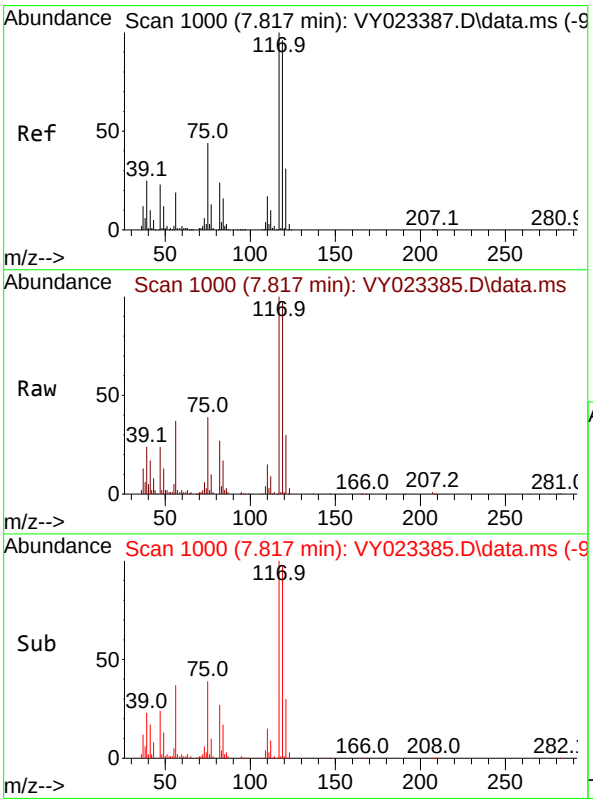
Ion	Ratio	Lower	Upper
43	100		
61	17.3	11.8	17.8
70	12.8	10.5	15.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

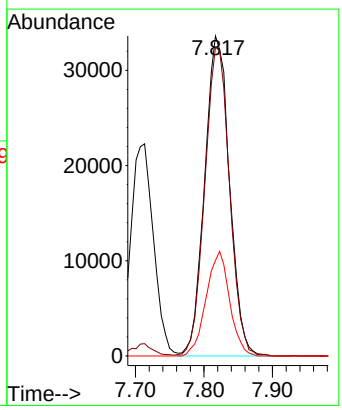
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

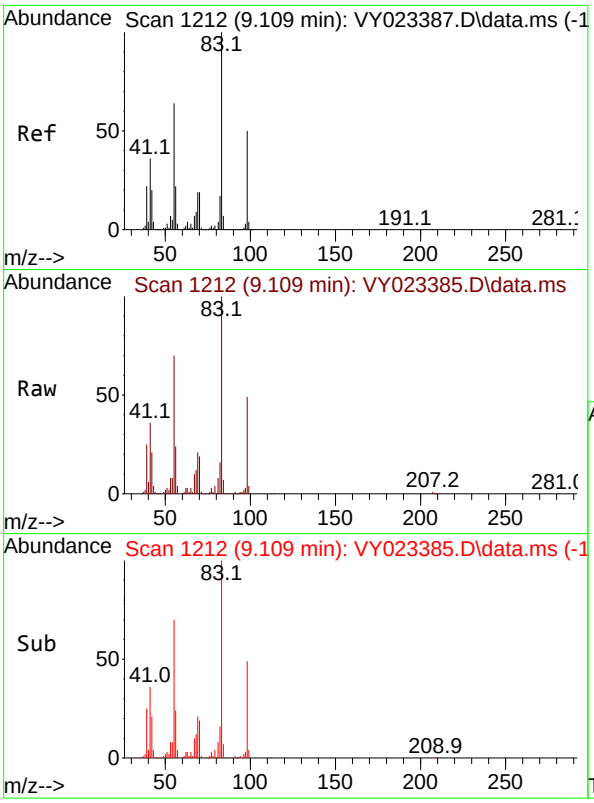


#38
Carbon Tetrachloride
Concen: 10.065 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:117 Resp: 84799

Ion	Ratio	Lower	Upper
117	100		
119	96.5	76.8	115.2
121	29.9	24.5	36.7





#39
Methylcyclohexane
Concen: 8.860 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

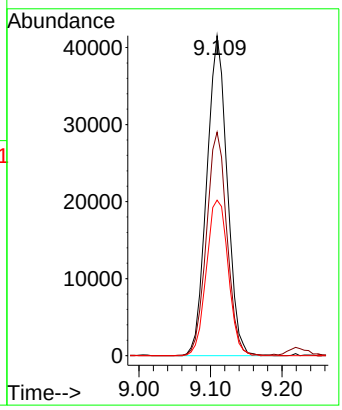
Tgt Ion: 83 Resp: 8227

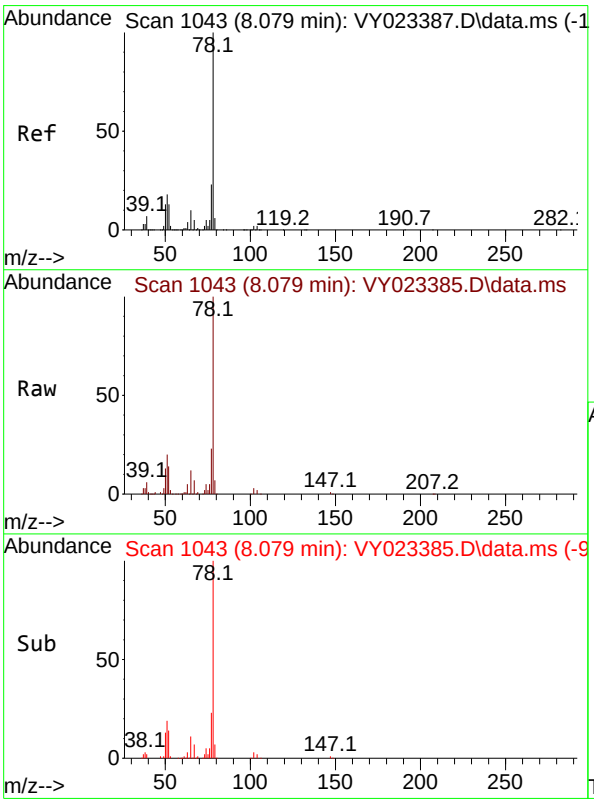
Ion	Ratio	Lower	Upper
83	100		
55	69.7	51.4	77.2
98	48.6	40.4	60.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

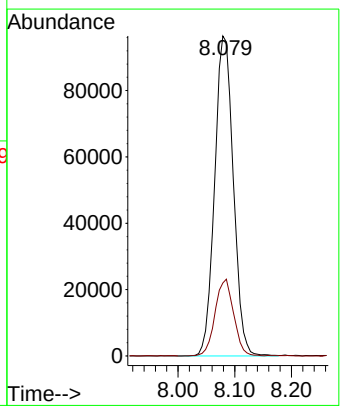


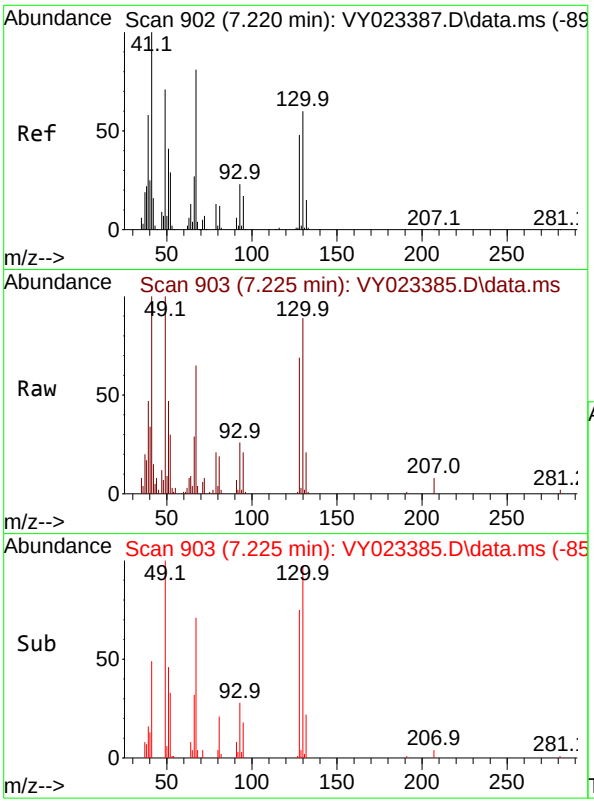


#40
Benzene
Concen: 9.758 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 78 Resp: 220629

Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.3	27.5

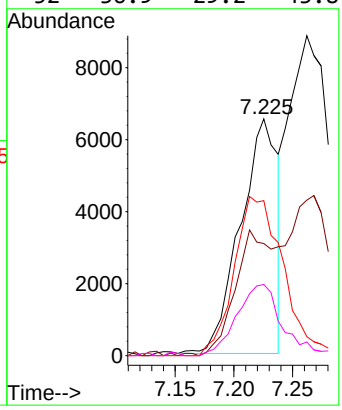




#41
Methacrylonitrile
Concen: 9.632 ug/l
RT: 7.225 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 41 Resp: 1434

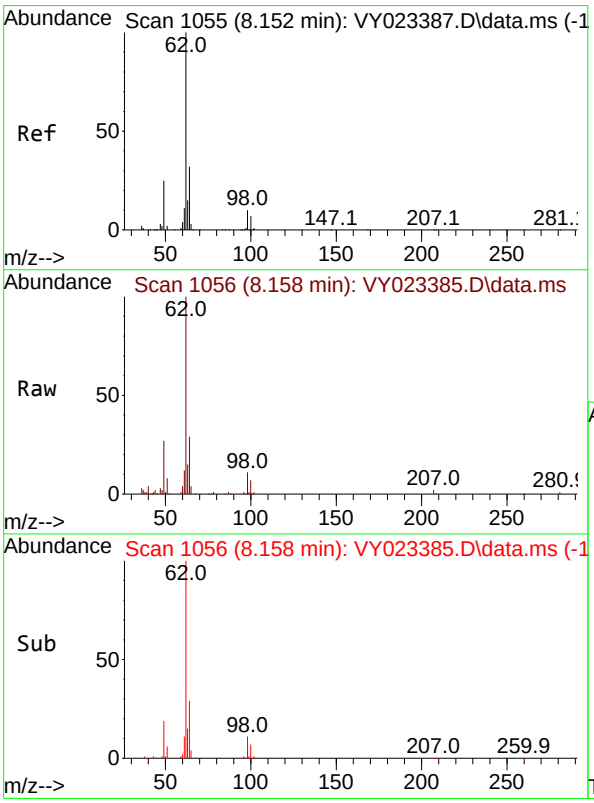
Ion	Ratio	Lower	Upper
41	100		
39	49.9	52.2	78.4
67	90.2	74.9	112.3
52	36.9	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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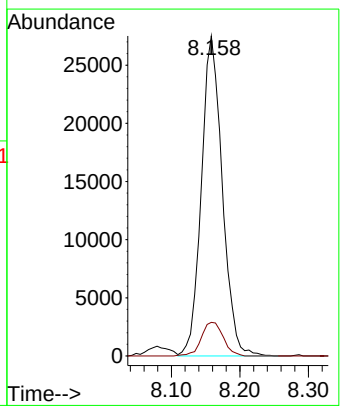
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

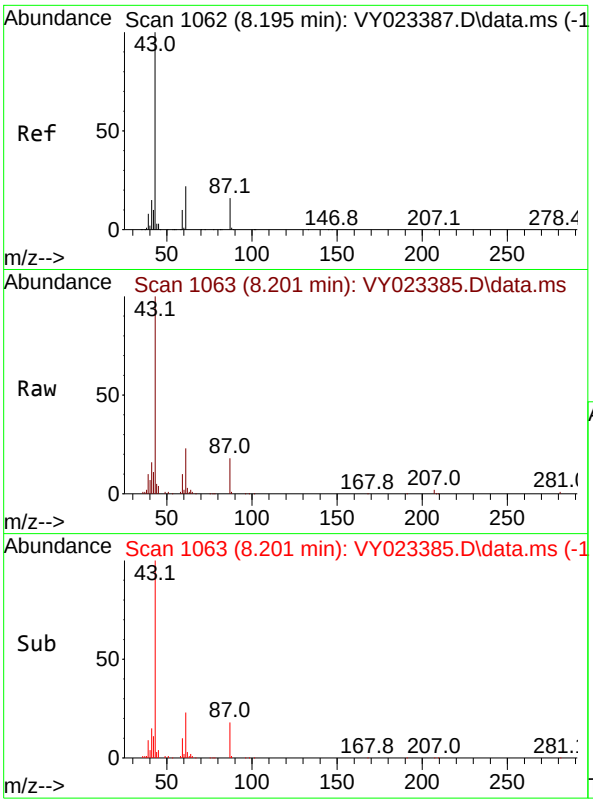


#42
1,2-Dichloroethane
Concen: 10.174 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 62 Resp: 58541

Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	21.6

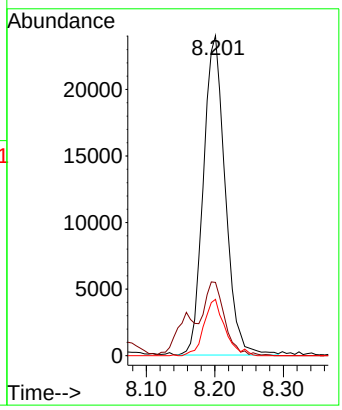




#43
Isopropyl Acetate
Concen: 9.510 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 5304

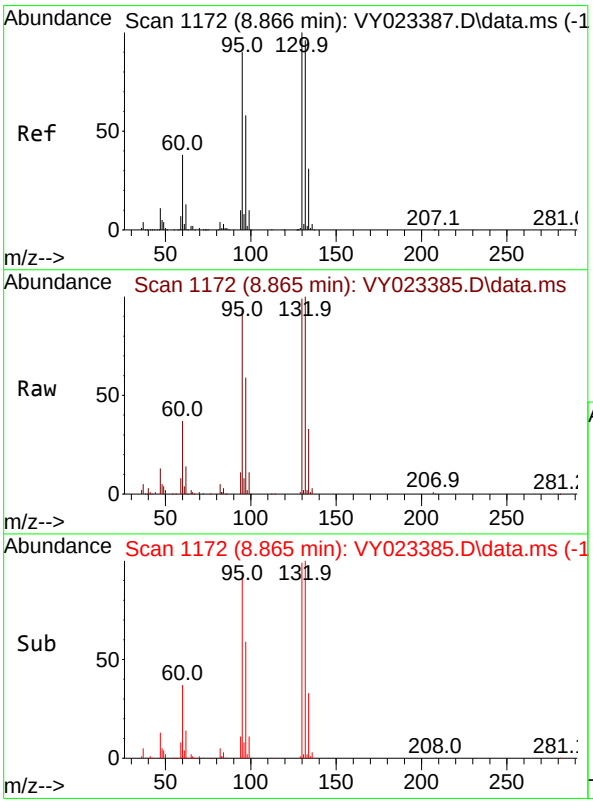
Ion	Ratio	Lower	Upper
43	100		
61	21.4	18.1	27.1
87	17.0	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

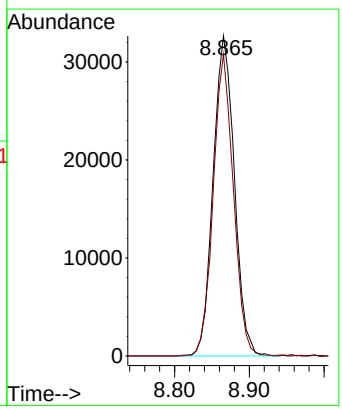
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

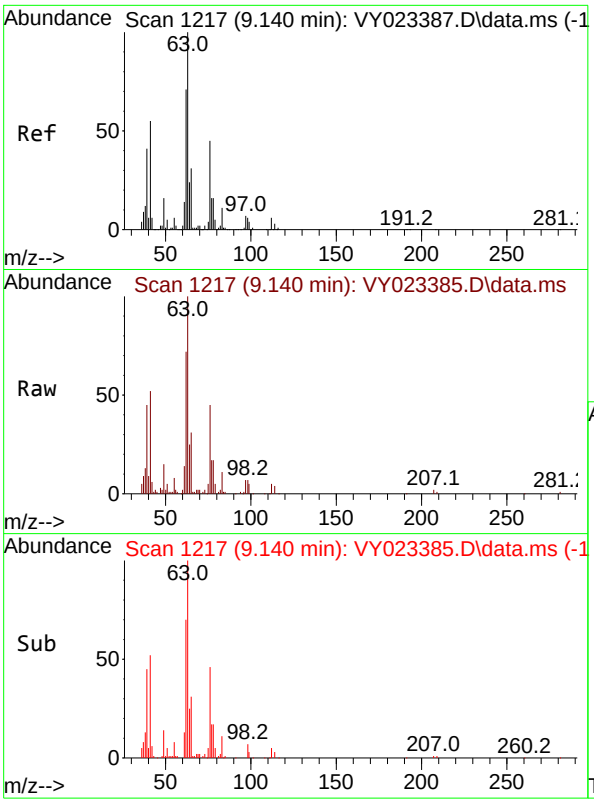


#44
Trichloroethene
Concen: 10.171 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:130 Resp: 64537

Ion	Ratio	Lower	Upper
130	100		
95	94.2	0.0	180.6

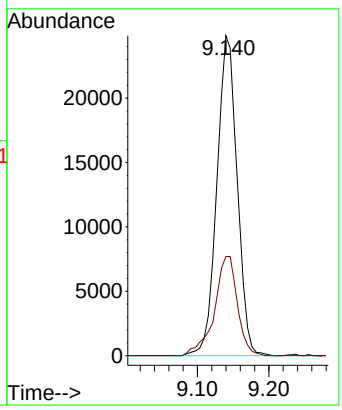




#45
1,2-Dichloropropane
Concen: 9.632 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 63 Resp: 4900

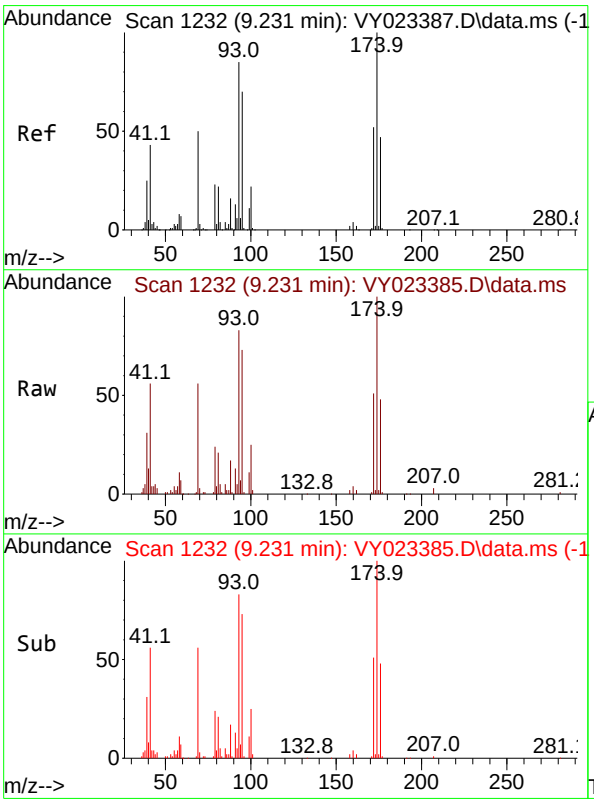
Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

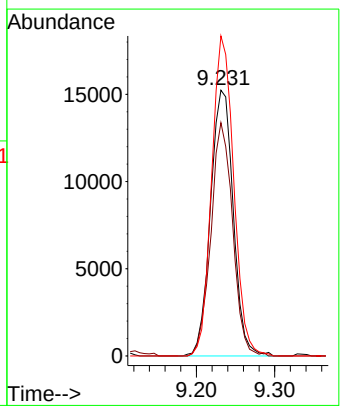
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

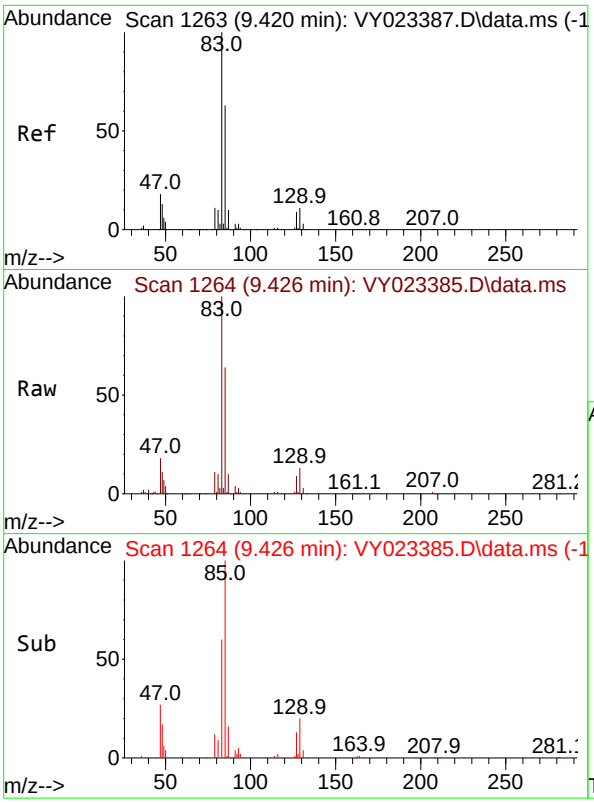


#46
Dibromomethane
Concen: 9.890 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 93 Resp: 30780

Ion	Ratio	Lower	Upper
93	100		
95	83.7	65.4	98.0
174	116.7	92.9	139.3

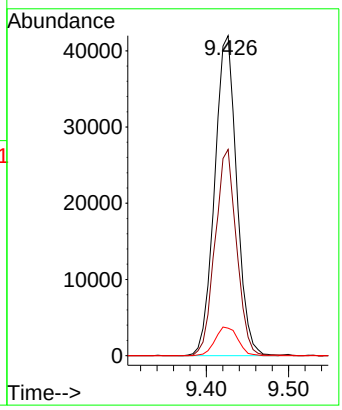




#47
Bromodichloromethane
Concen: 10.007 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 83 Resp: 7839

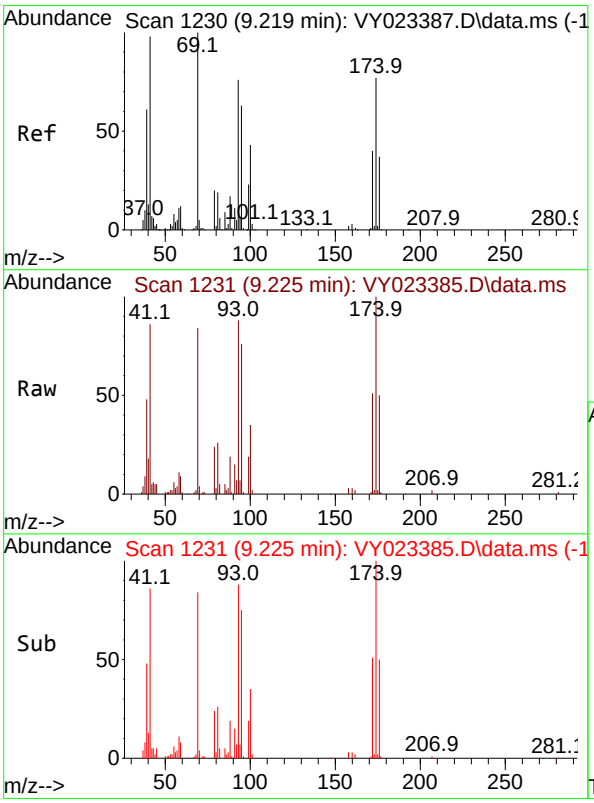
Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.8	76.2
127	8.6	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

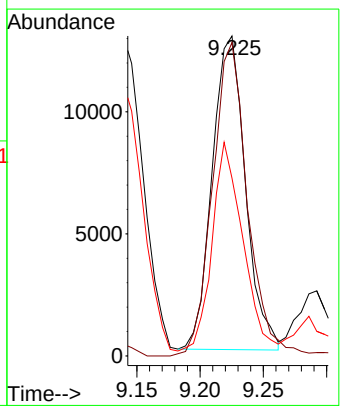
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

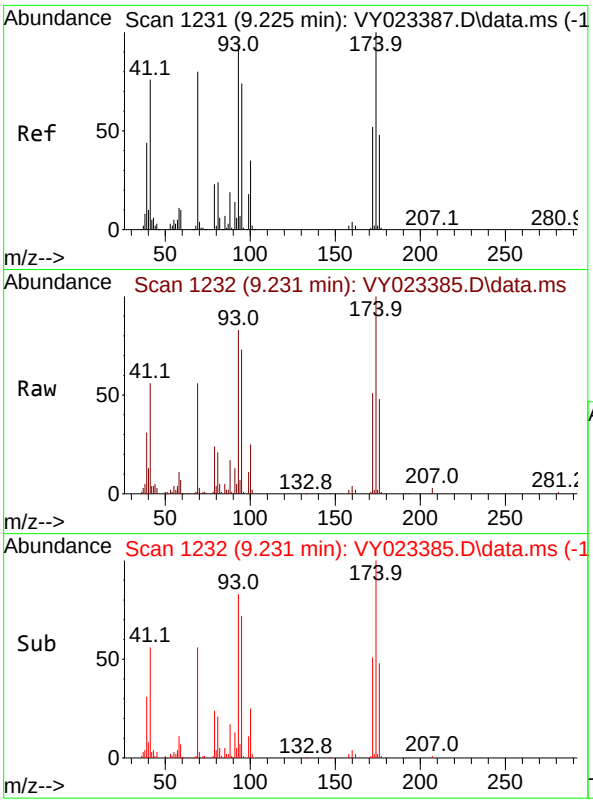


#48
Methyl methacrylate
Concen: 9.023 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 41 Resp: 23484

Ion	Ratio	Lower	Upper
41	100		
69	105.8	81.0	121.4
39	61.4	48.2	72.4





#49
1,4-Dioxane
Concen: 211.693 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

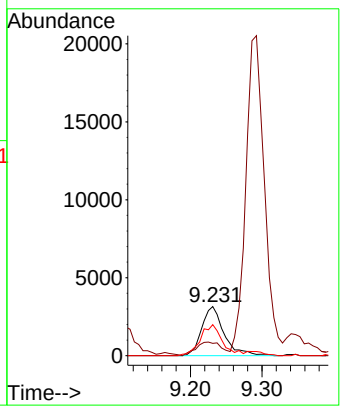
Tgt Ion: 88 Resp: 682

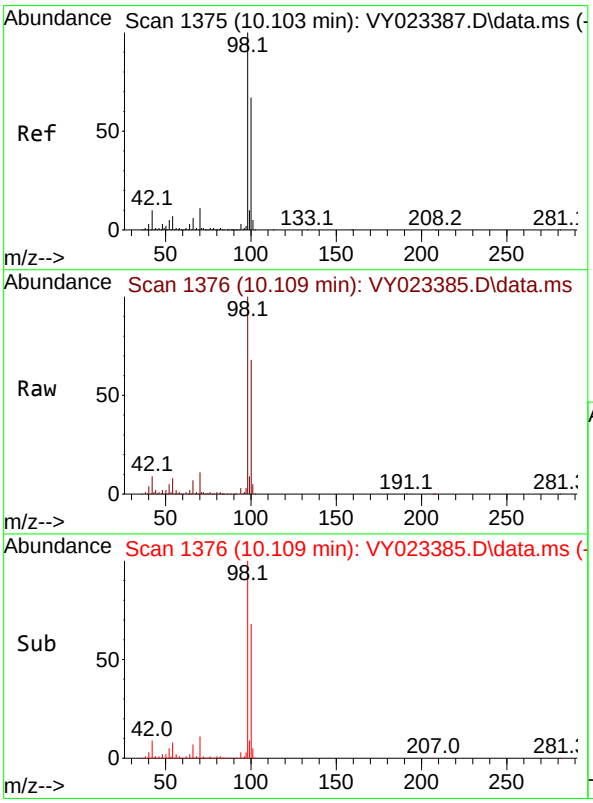
Ion	Ratio	Lower	Upper
88	100		
43	32.1	21.8	32.8
58	62.0	46.8	70.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

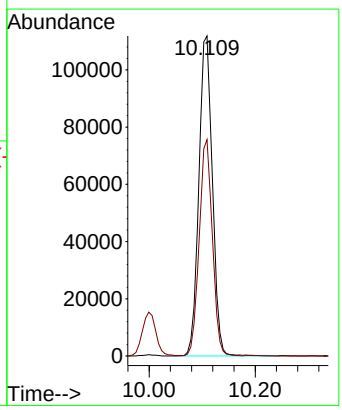


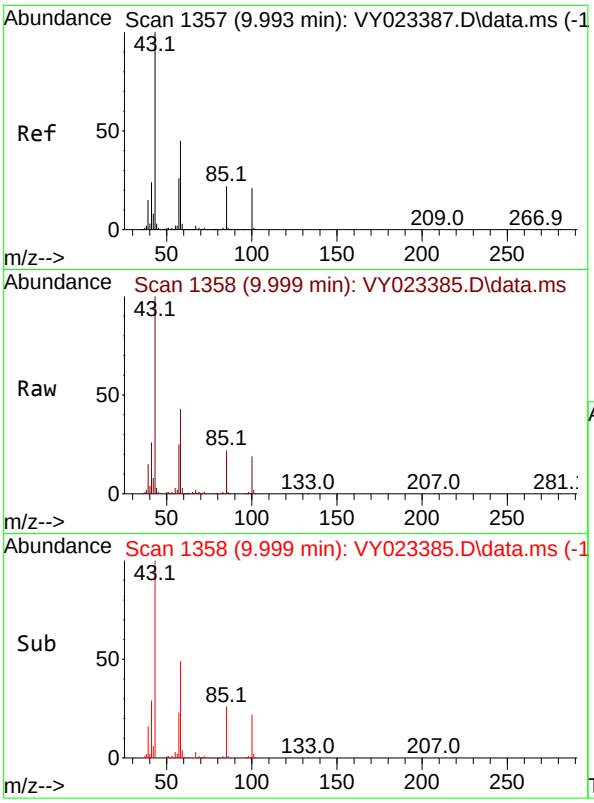


#50
Toluene-d8
Concen: 10.225 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 98 Resp: 198242

Ion	Ratio	Lower	Upper
98	100		
100	65.6	53.0	79.4

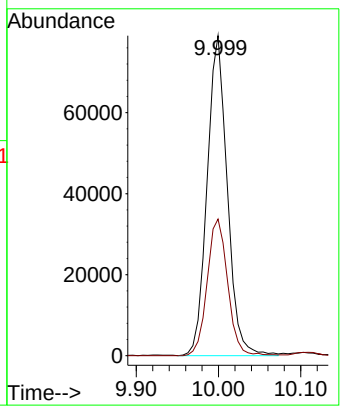




#51
4-Methyl-2-Pentanone
Concen: 47.165 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 13474

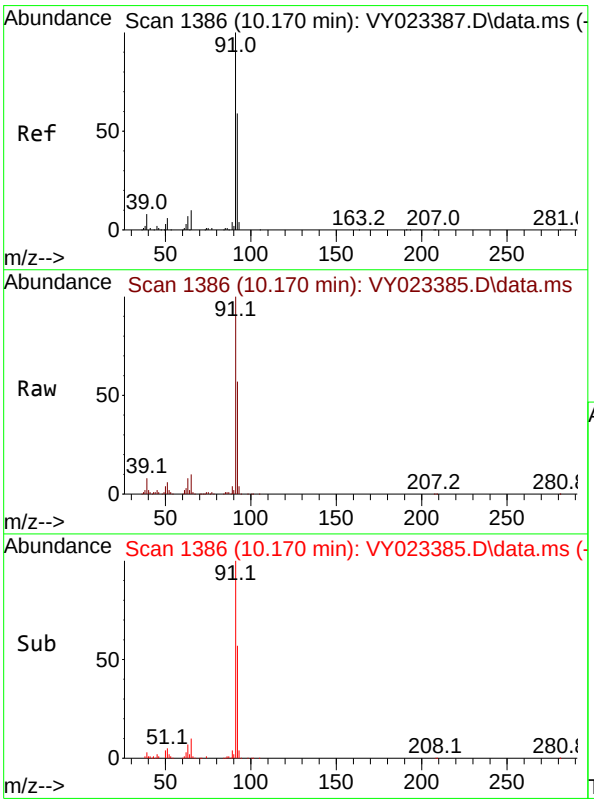
Ion	Ratio	Lower	Upper
43	100		
58	43.5	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

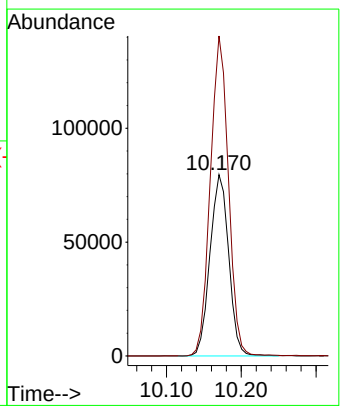
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

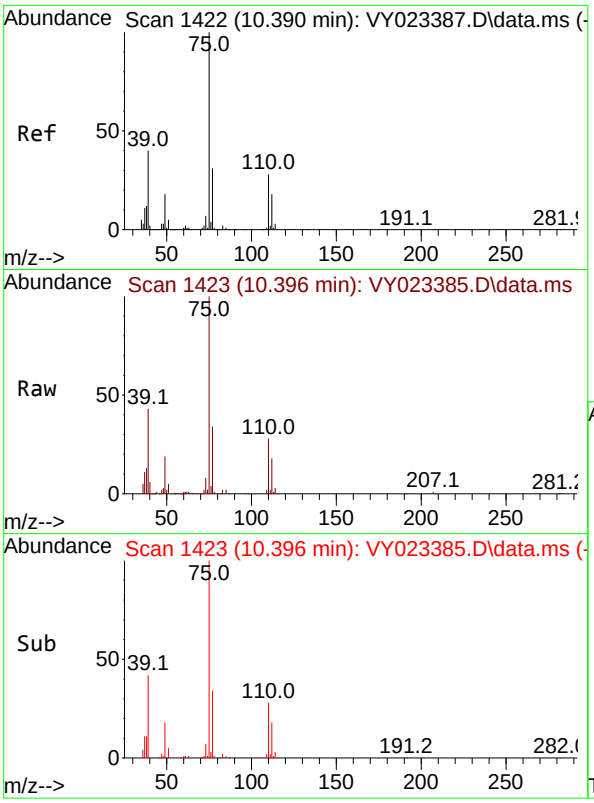


#52
Toluene
Concen: 9.661 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 92 Resp: 138662

Ion	Ratio	Lower	Upper
92	100		
91	170.6	136.4	204.6

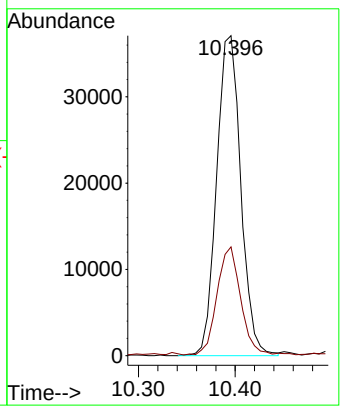




#53
t-1,3-Dichloropropene
Concen: 9.559 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 6431

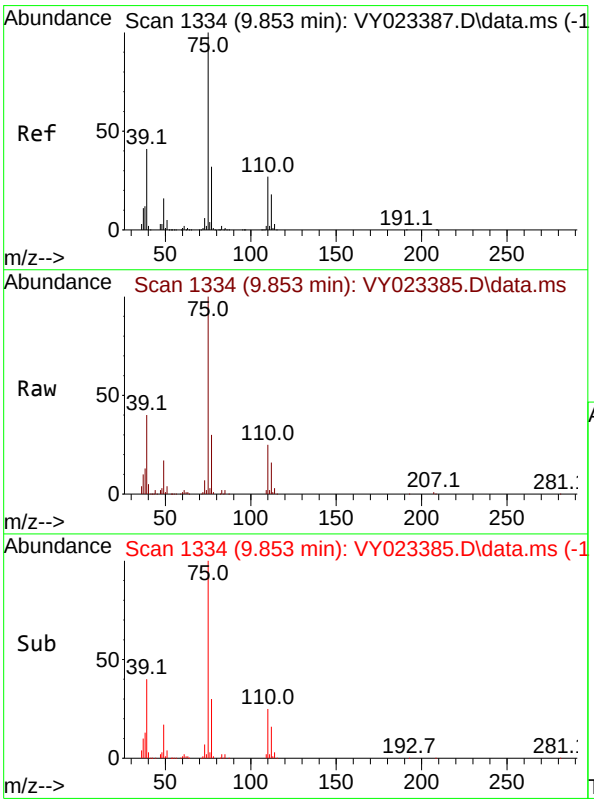
Ion	Ratio	Lower	Upper
75	100		
77	33.4	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

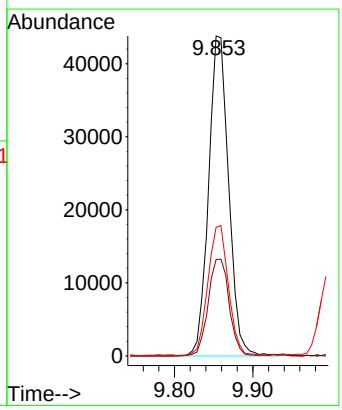
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

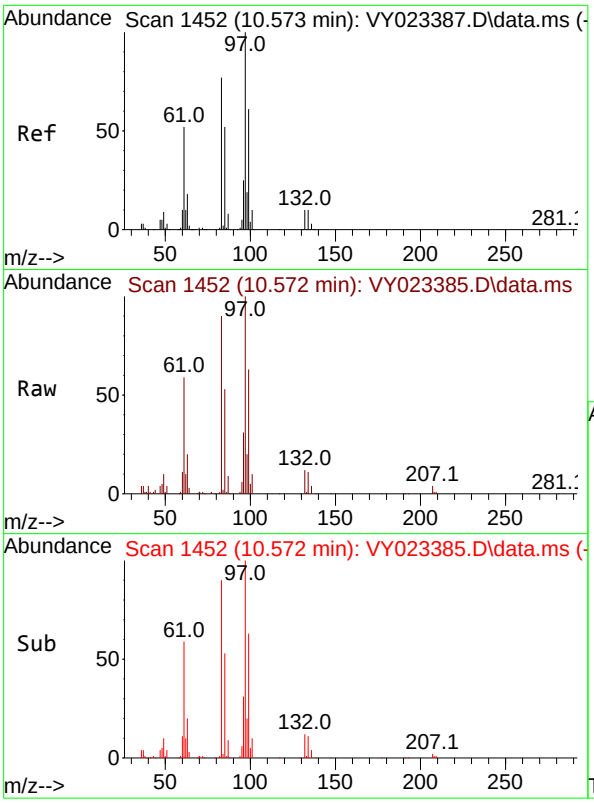


#54
cis-1,3-Dichloropropene
Concen: 9.687 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 77905

Ion	Ratio	Lower	Upper
75	100		
77	30.0	25.4	38.0
39	40.2	32.8	49.2

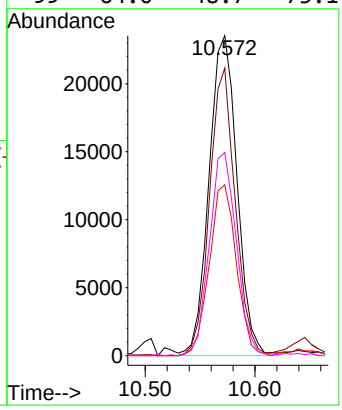




#55
1,1,2-Trichloroethane
Concen: 10.118 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 97 Resp: 4188

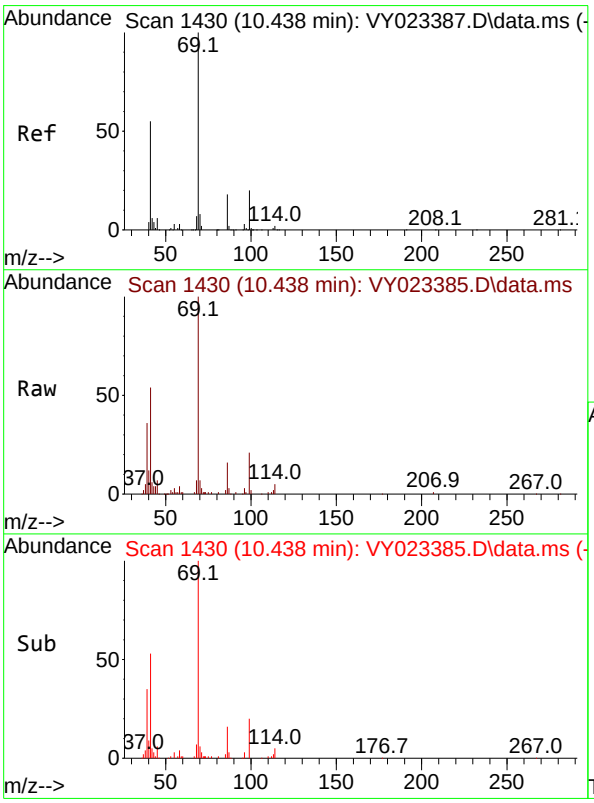
Ion	Ratio	Lower	Upper
97	100		
83	90.6	61.8	92.6
85	53.8	41.3	61.9
99	64.0	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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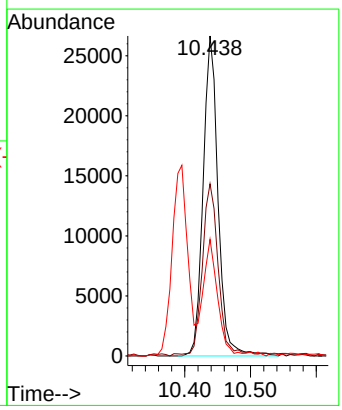
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

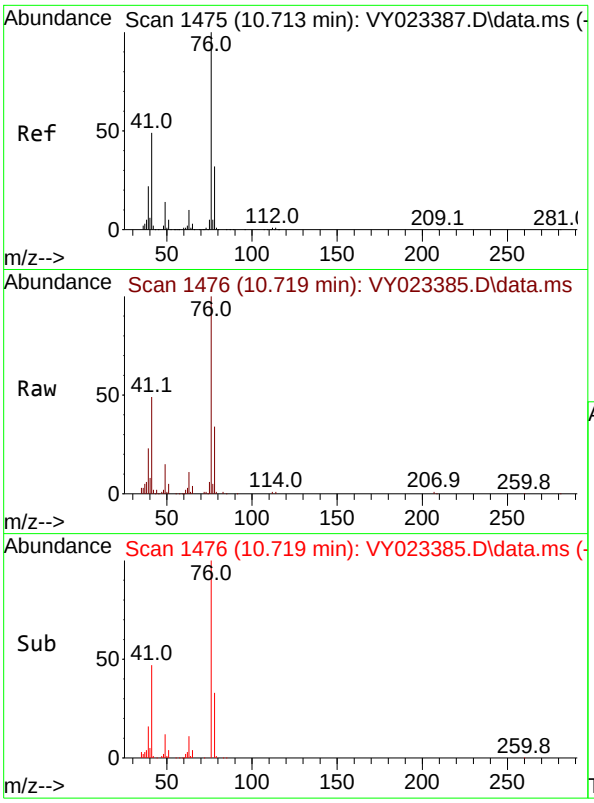


#56
Ethyl methacrylate
Concen: 8.830 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 69 Resp: 42096

Ion	Ratio	Lower	Upper
69	100		
41	58.1	44.6	67.0
39	34.5	27.0	40.4

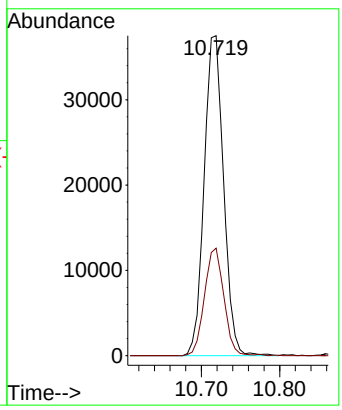




#57
1,3-Dichloropropane
Concen: 9.633 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 76 Resp: 6453

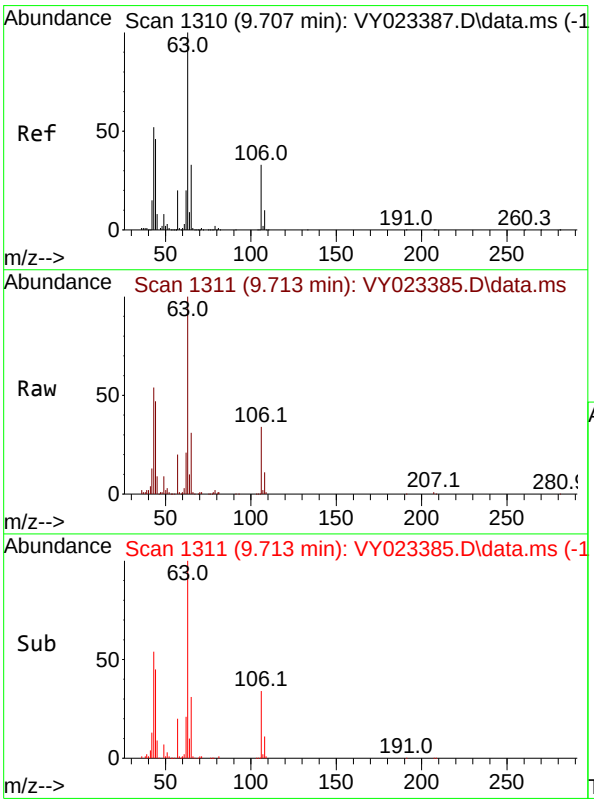
Ion	Ratio	Lower	Upper
76	100		
78	33.6	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

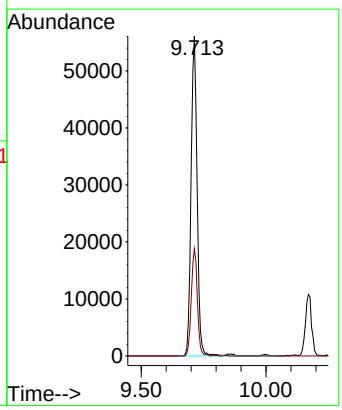
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

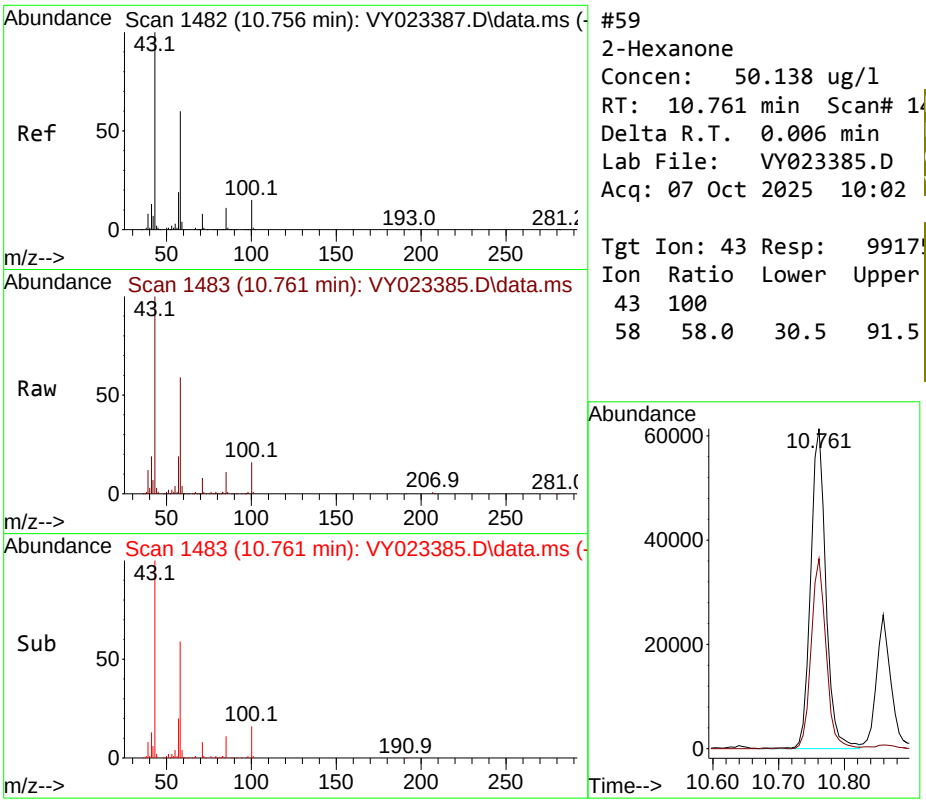


#58
2-Chloroethyl Vinyl ether
Concen: 45.535 ug/l m
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 63 Resp: 94970

Ion	Ratio	Lower	Upper
63	100		
106	33.4	26.6	39.8





#59
2-Hexanone
Concen: 50.138 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

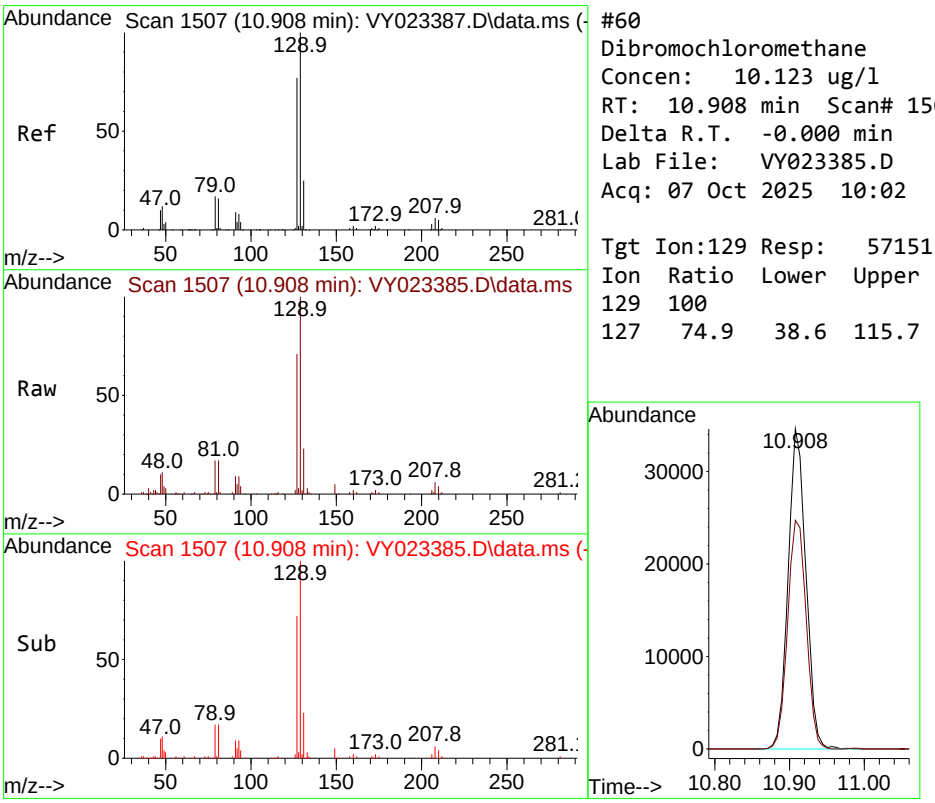
Tgt Ion: 43 Resp: 9917

Ion	Ratio	Lower	Upper
43	100		
58	58.0	30.5	91.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

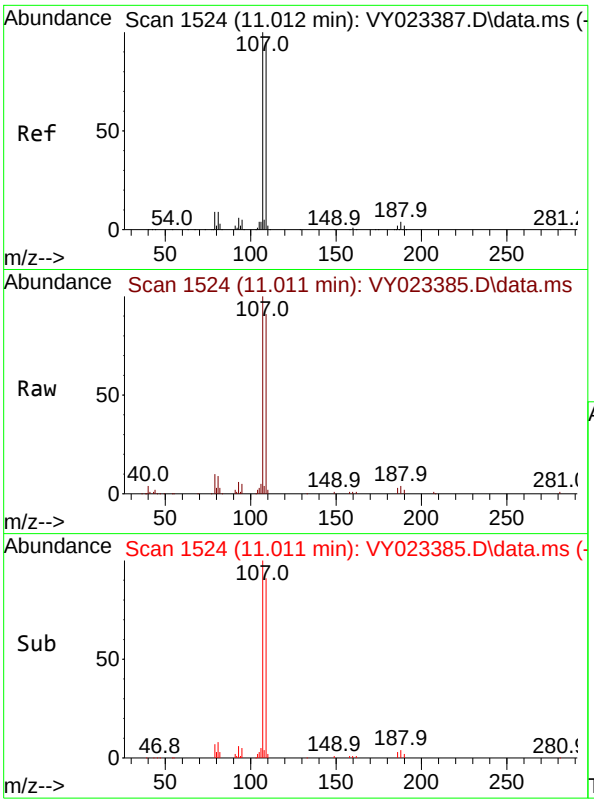
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#60
Dibromochloromethane
Concen: 10.123 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:129 Resp: 57151

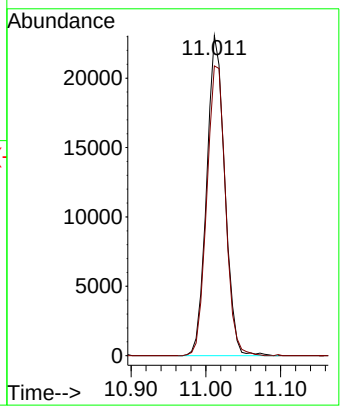
Ion	Ratio	Lower	Upper
129	100		
127	74.9	38.6	115.7



#61
1,2-Dibromoethane
Concen: 9.979 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:107 Resp: 3886

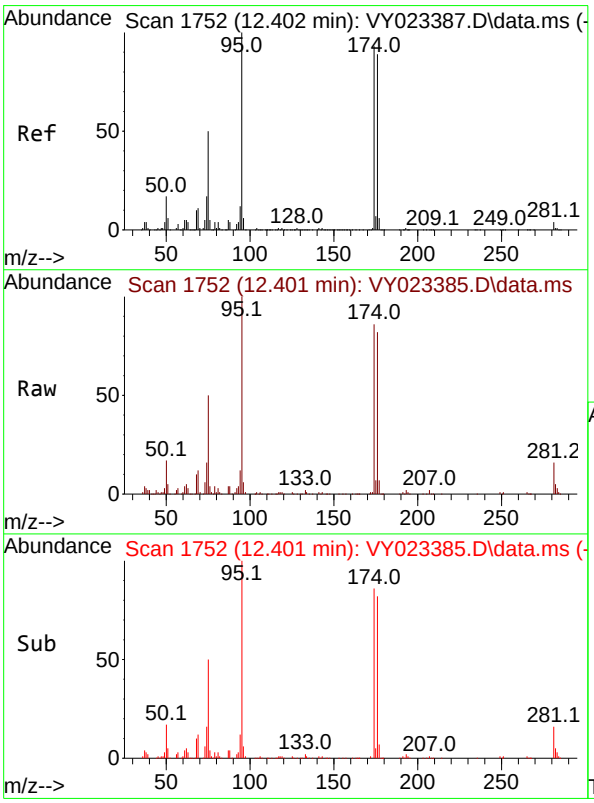
Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
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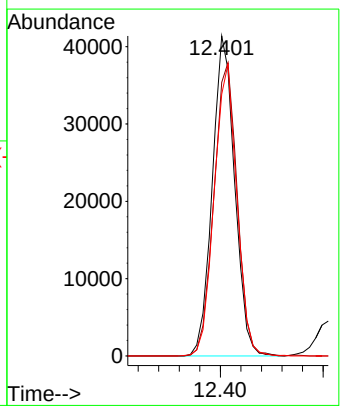
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

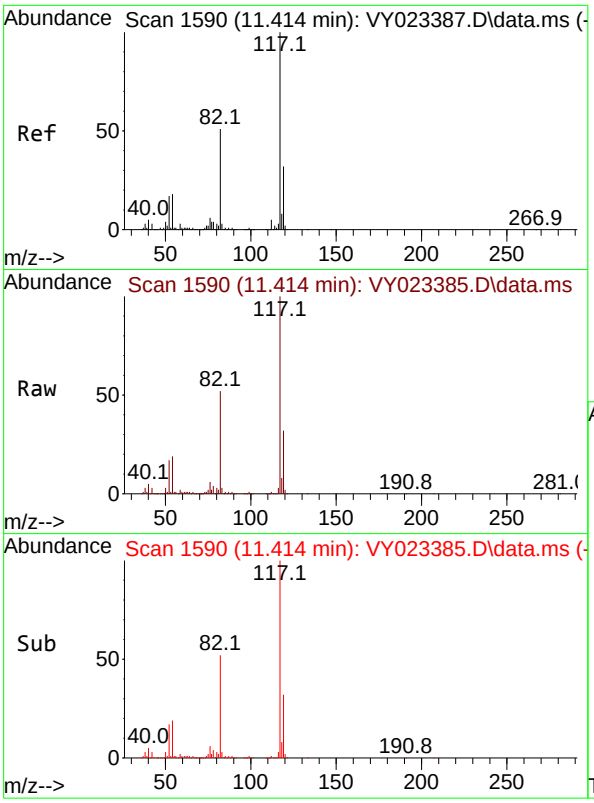


#62
4-Bromofluorobenzene
Concen: 10.235 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 95 Resp: 62601

Ion	Ratio	Lower	Upper
95	100		
174	94.6	0.0	192.8
176	92.1	0.0	187.6

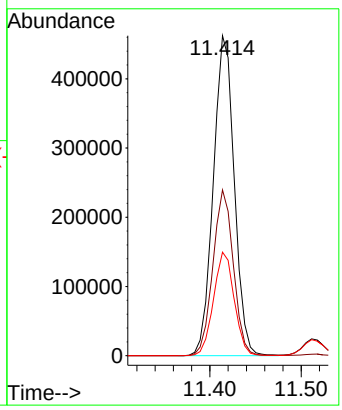




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:117 Resp: 73615

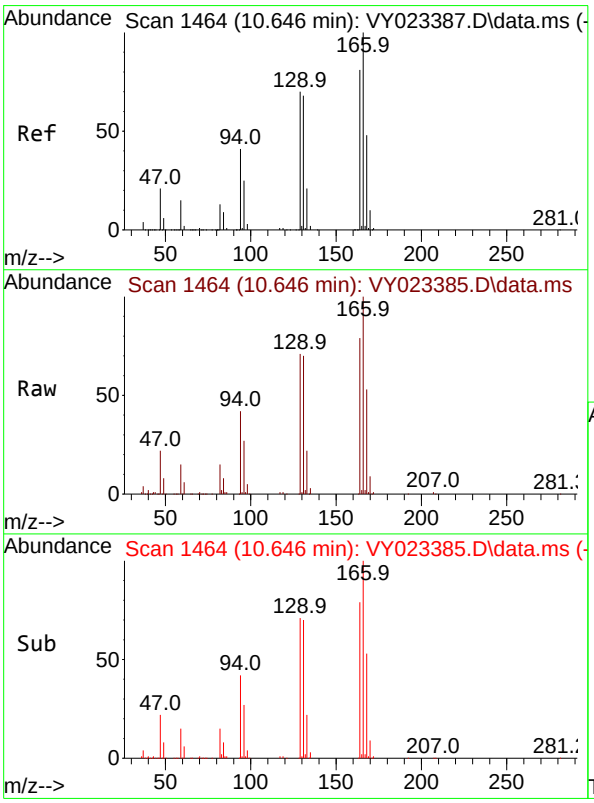
Ion	Ratio	Lower	Upper
117	100		
82	51.8	41.0	61.4
119	32.3	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

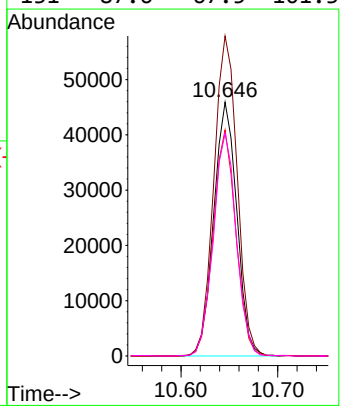
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

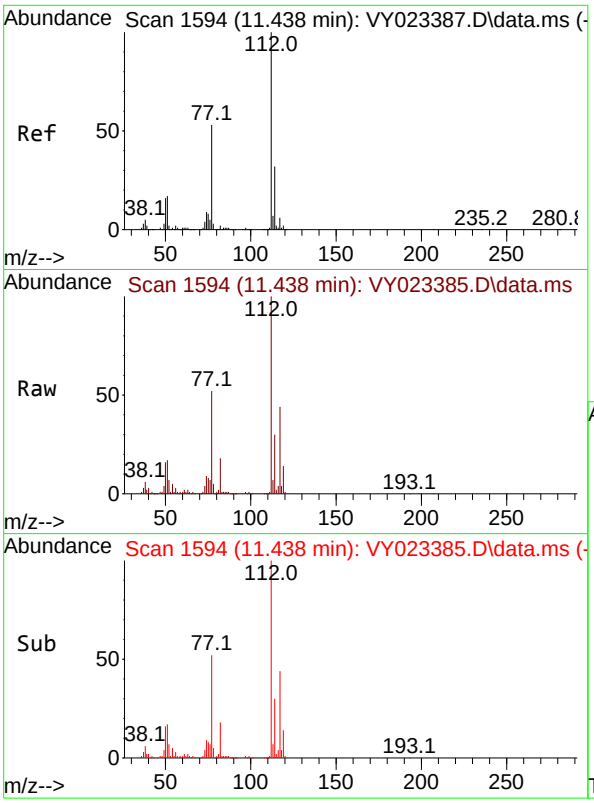


#64
Tetrachloroethene
Concen: 10.335 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:164 Resp: 76110

Ion	Ratio	Lower	Upper
164	100		
166	126.1	99.4	149.0
129	89.0	69.4	104.2
131	87.6	67.5	101.3

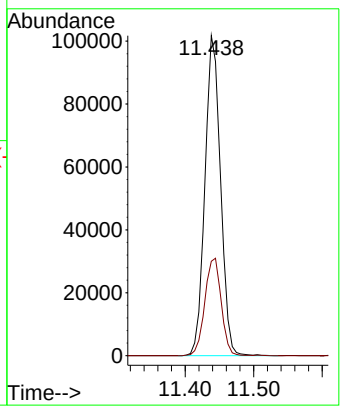




#65
Chlorobenzene
Concen: 10.074 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:112 Resp: 16115

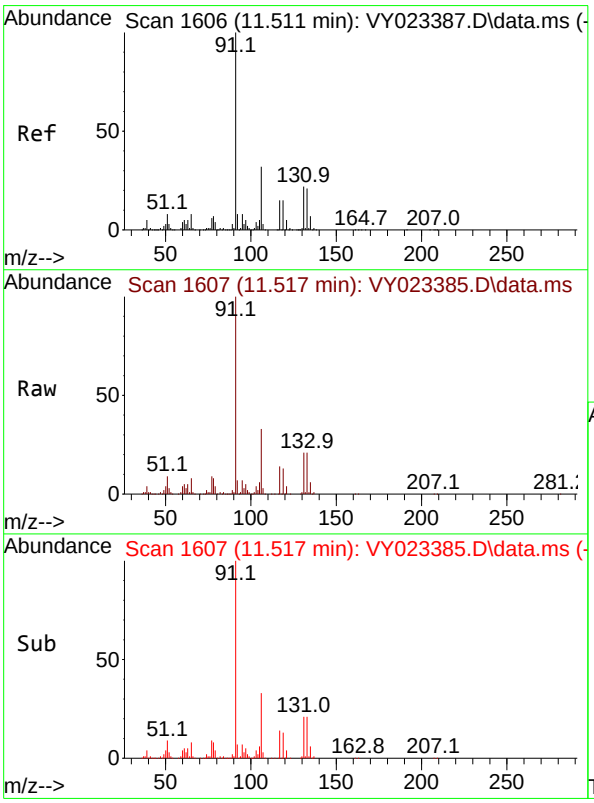
Ion	Ratio	Lower	Upper
112	100		
114	29.5	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

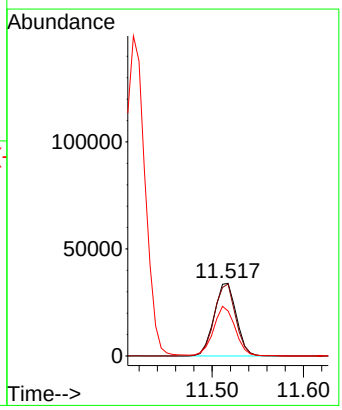
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

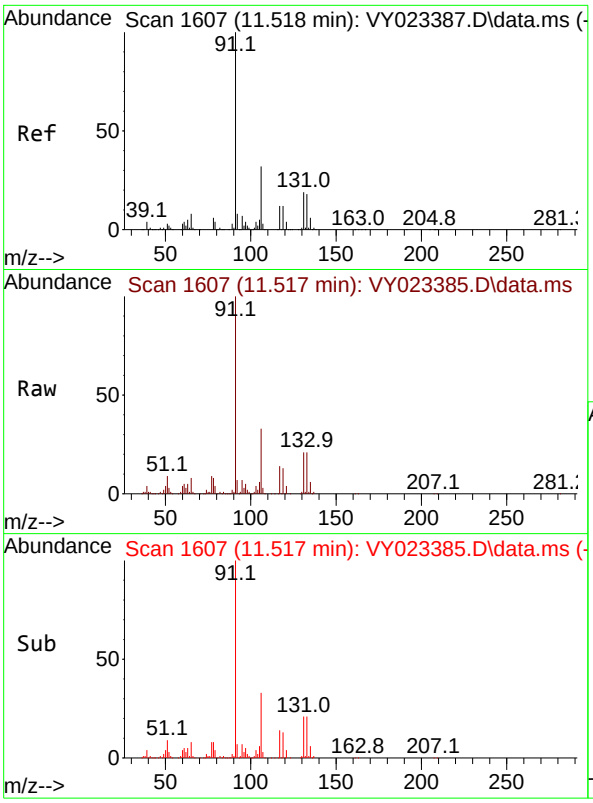


#66
1,1,1,2-Tetrachloroethane
Concen: 10.173 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:131 Resp: 57233

Ion	Ratio	Lower	Upper
131	100		
133	95.8	48.4	145.2
119	66.9	32.4	97.2

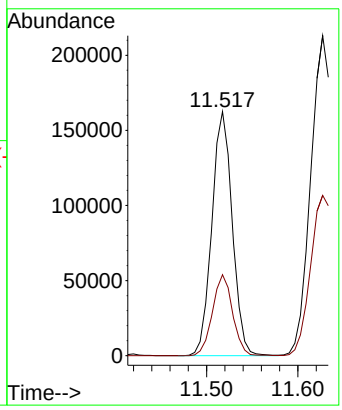




#67
Ethyl Benzene
Concen: 9.651 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 91 Resp: 25195

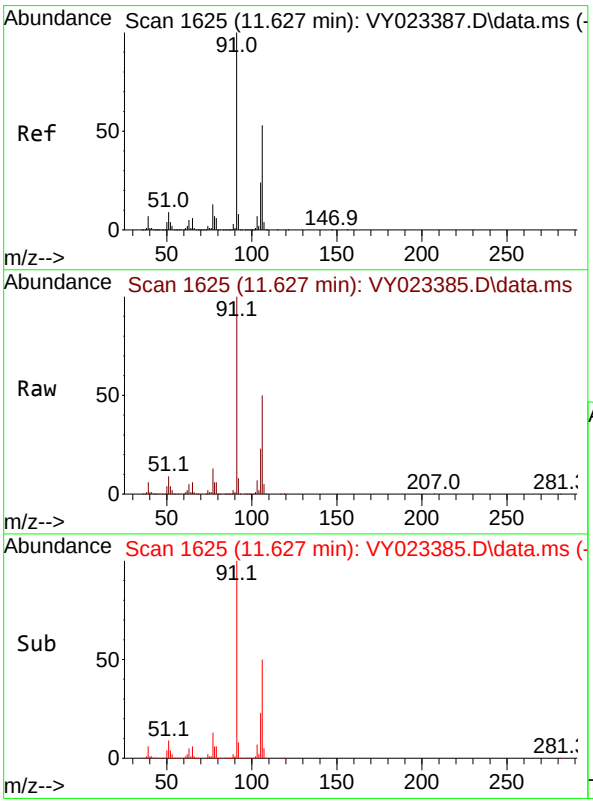
Ion	Ratio	Lower	Upper
91	100		
106	33.1	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

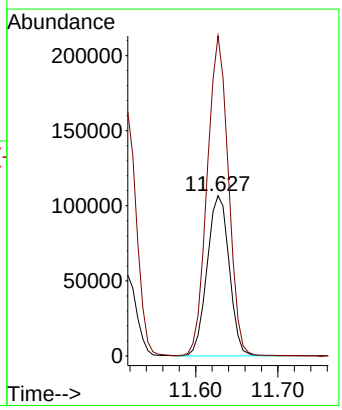
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

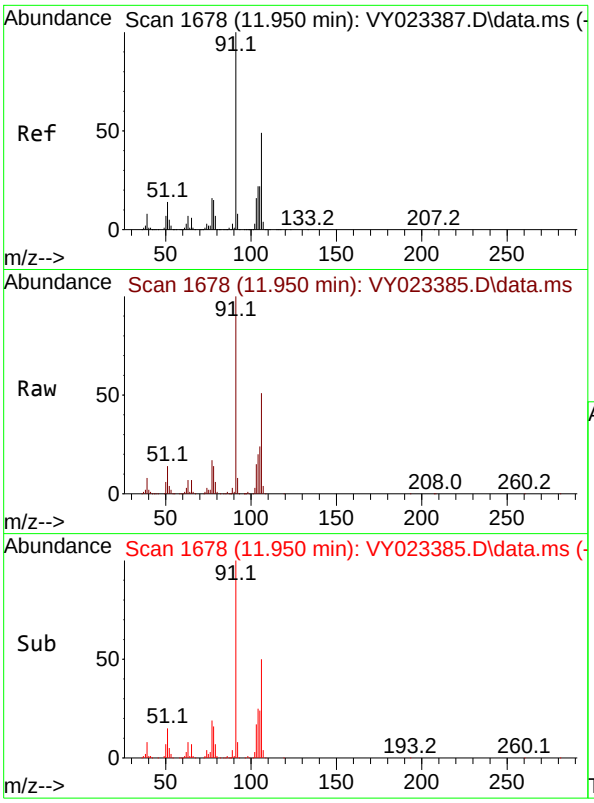


#68
m/p-Xylenes
Concen: 19.004 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:106 Resp: 198866

Ion	Ratio	Lower	Upper
106	100		
91	192.3	152.6	229.0

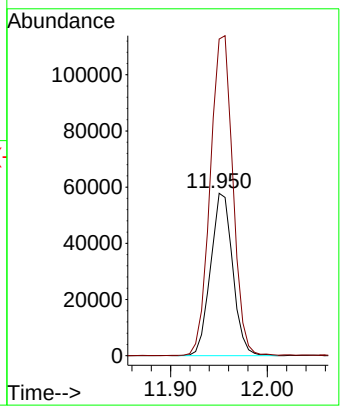




#69
o-Xylene
Concen: 9.467 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:106 Resp: 9171

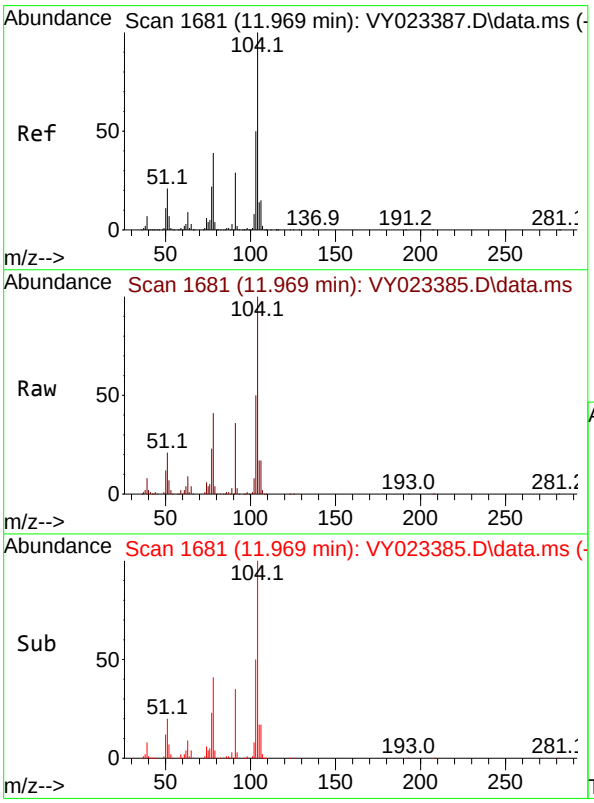
Ion	Ratio	Lower	Upper
106	100		
91	202.0	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

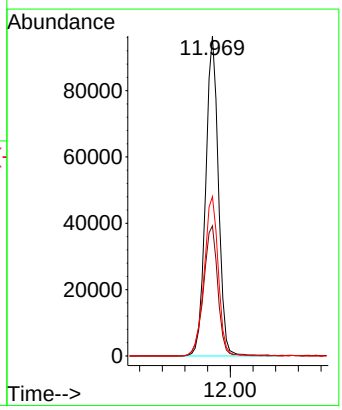
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

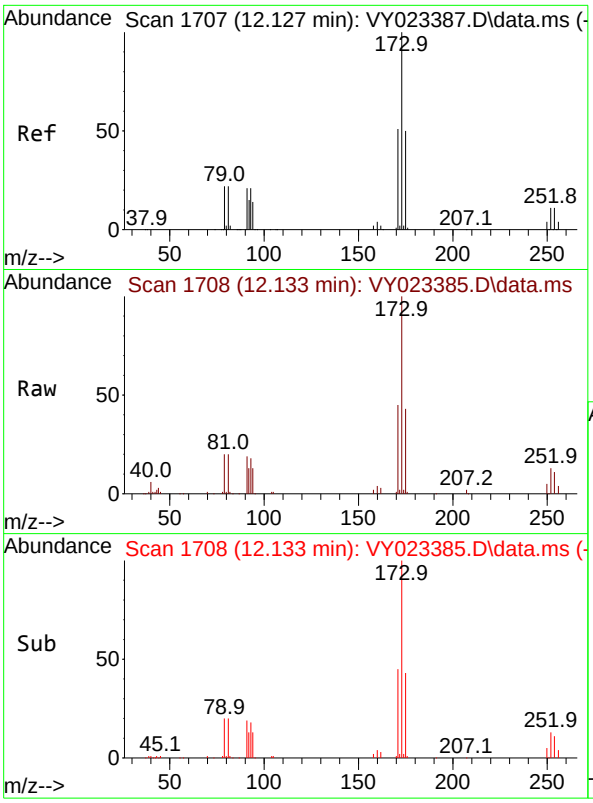


#70
Styrene
Concen: 9.446 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:104 Resp: 151094

Ion	Ratio	Lower	Upper
104	100		
78	45.4	36.1	54.1
103	55.0	43.2	64.8

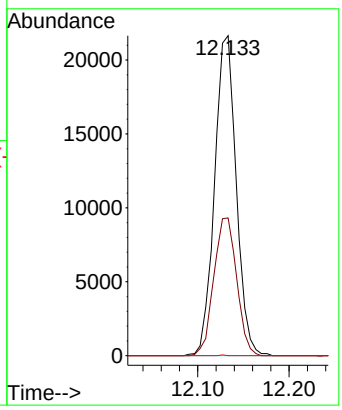




#71
Bromoform
Concen: 10.595 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:173 Resp: 3568

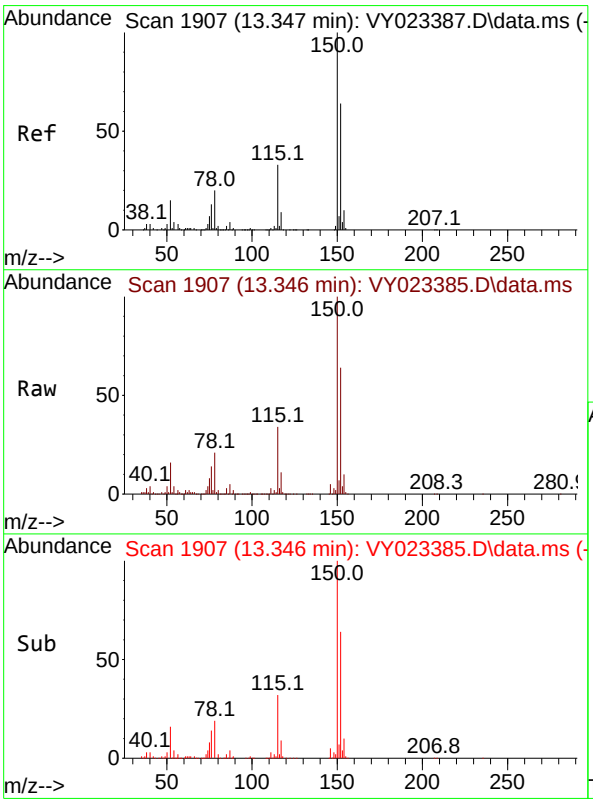
Ion	Ratio	Lower	Upper
173	100		
175	45.5	24.8	74.3
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

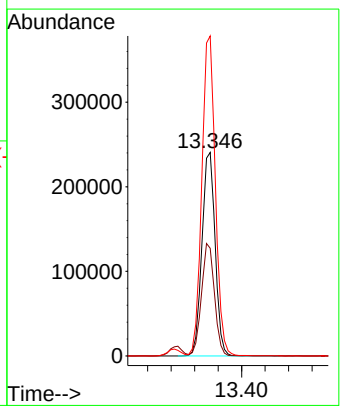
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

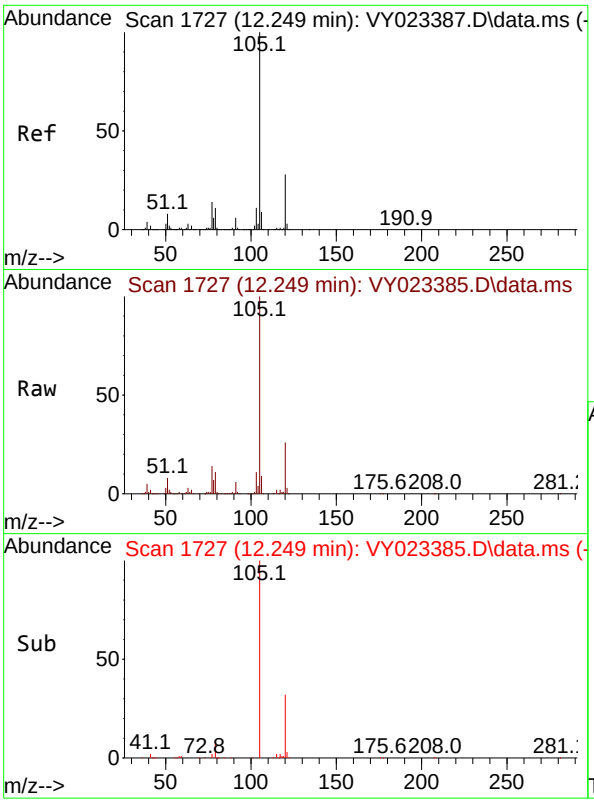


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:152 Resp: 374998

Ion	Ratio	Lower	Upper
152	100		
115	54.2	27.1	81.2
150	160.7	0.0	347.4

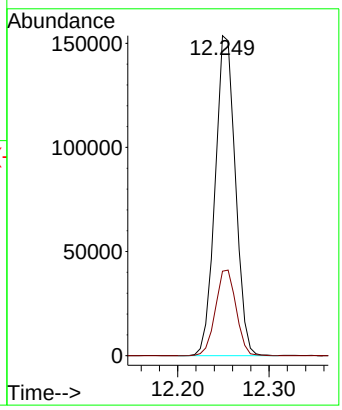




#73
Isopropylbenzene
Concen: 9.467 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:105 Resp: 23648

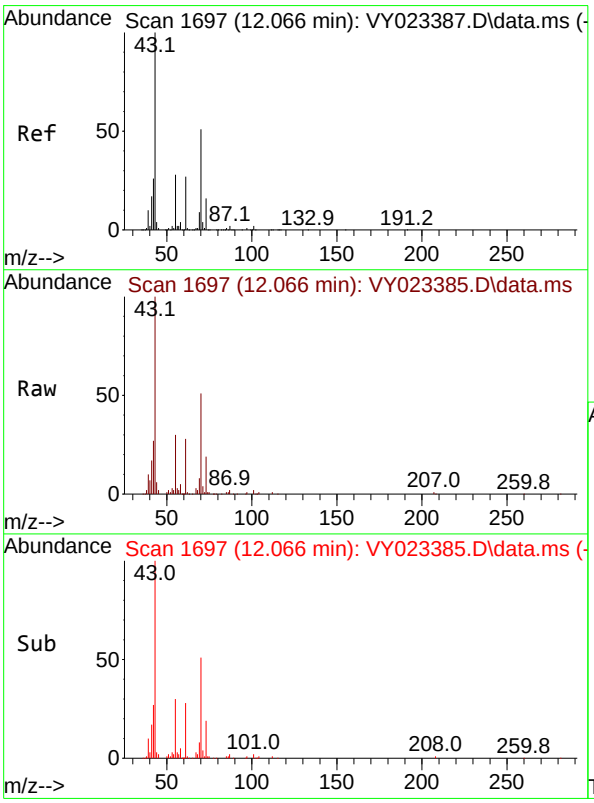
Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

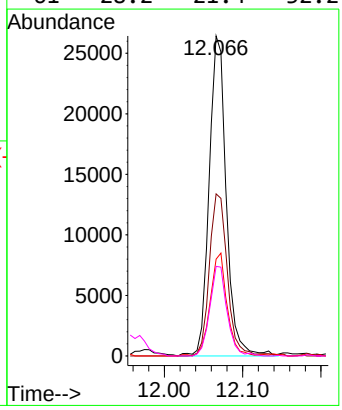
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

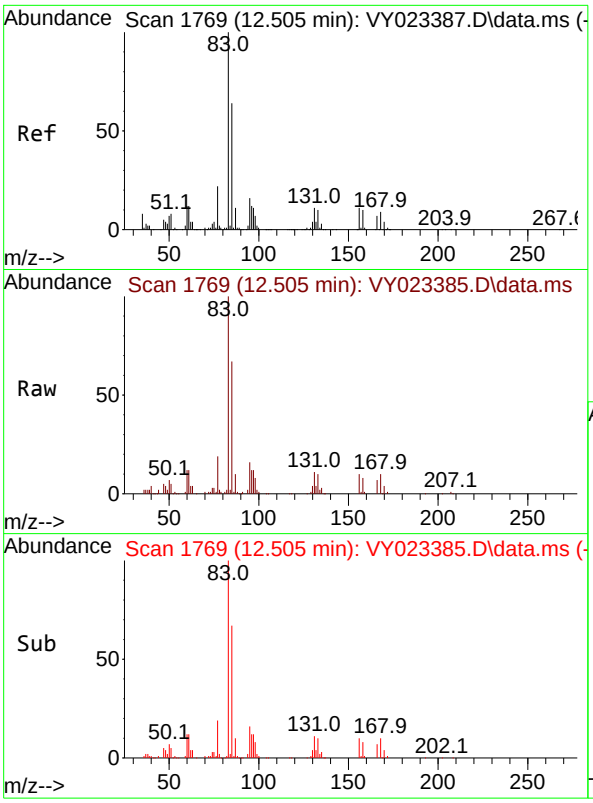


#74
N-amyl acetate
Concen: 8.590 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 40098

Ion	Ratio	Lower	Upper
43	100		
70	52.7	41.1	61.7
55	31.6	23.0	34.6
61	28.2	21.4	32.2

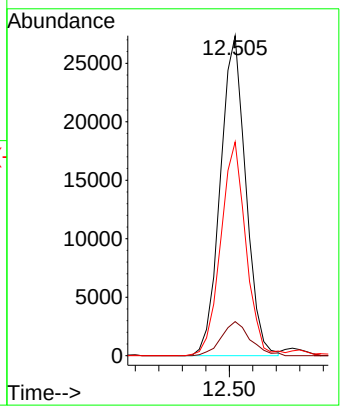




#75
1,1,2,2-Tetrachloroethane
Concen: 9.871 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 83 Resp: 4113

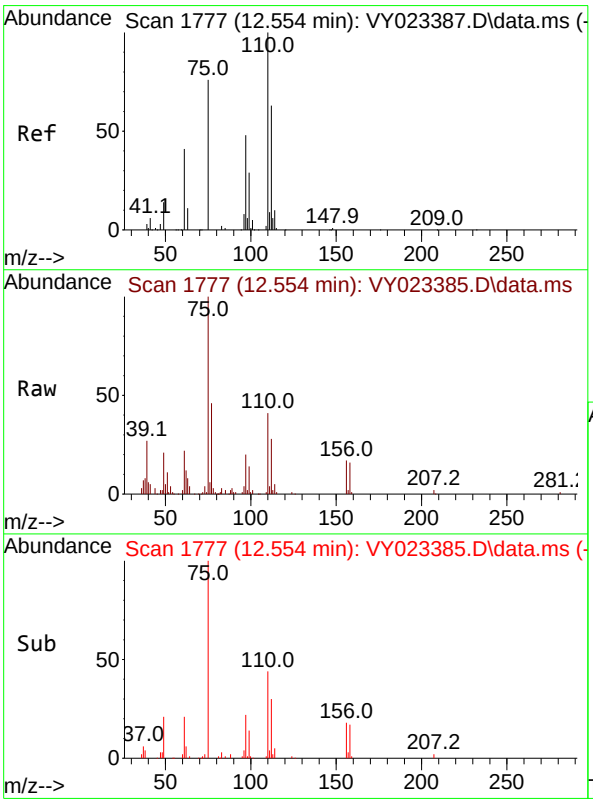
Ion	Ratio	Lower	Upper
83	100		
131	12.0	5.9	17.6
85	66.1	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

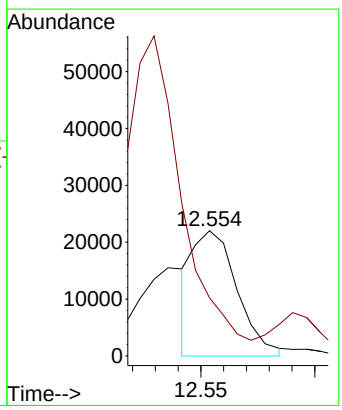
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

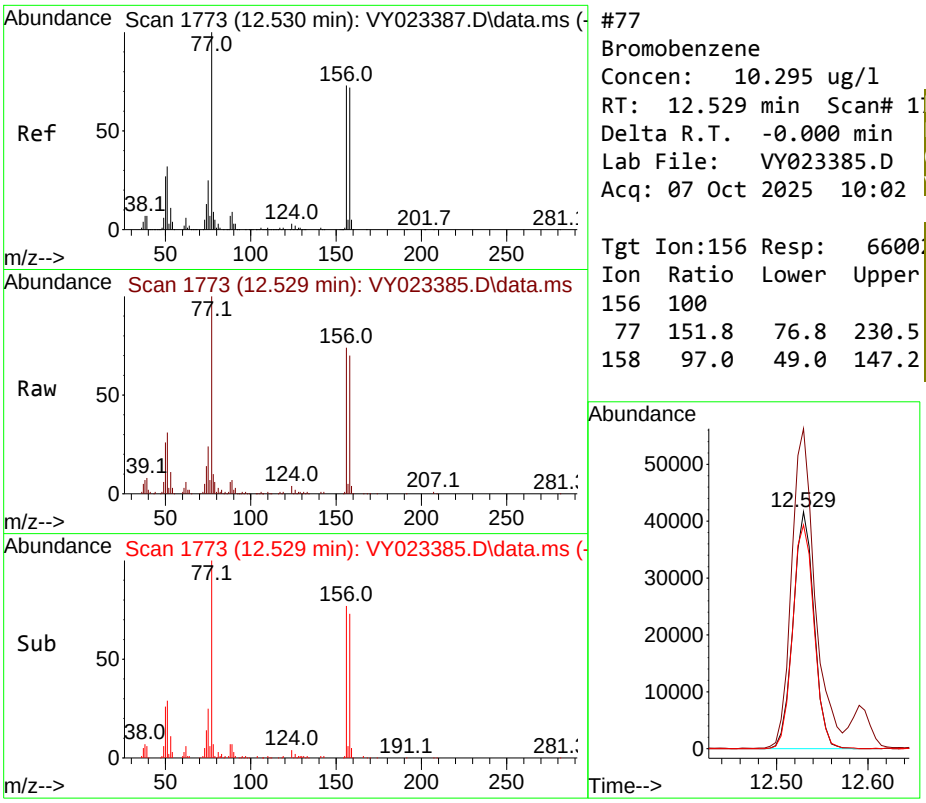


#76
1,2,3-Trichloropropane
Concen: 8.095 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 29944

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77
Bromobenzene
Concen: 10.295 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

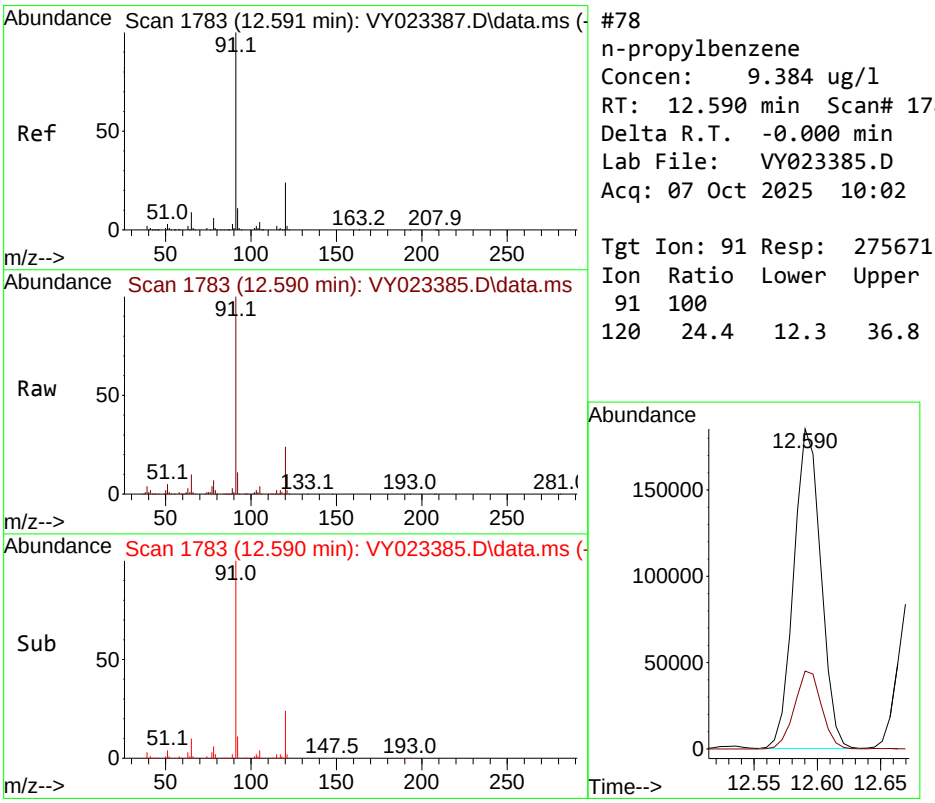
Tgt Ion:156 Resp: 6600

Ion	Ratio	Lower	Upper
156	100		
77	151.8	76.8	230.5
158	97.0	49.0	147.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

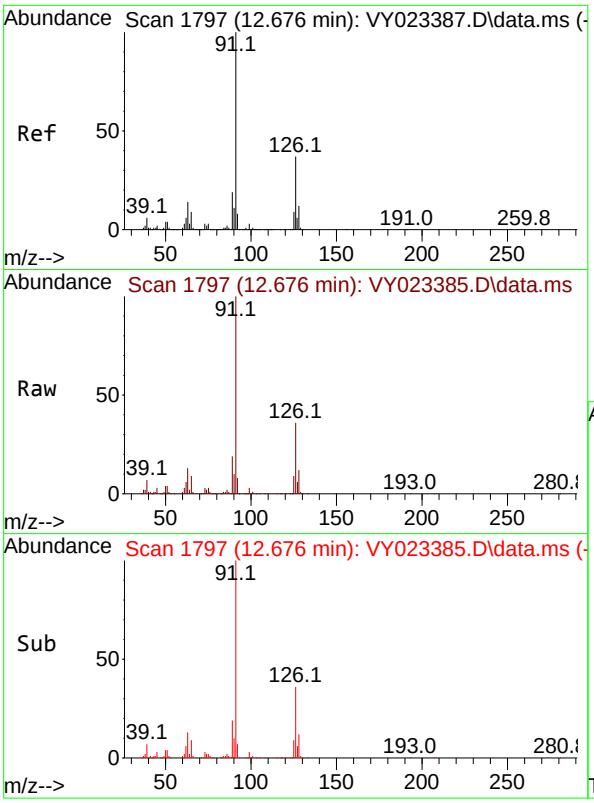
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#78
n-propylbenzene
Concen: 9.384 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 91 Resp: 275671

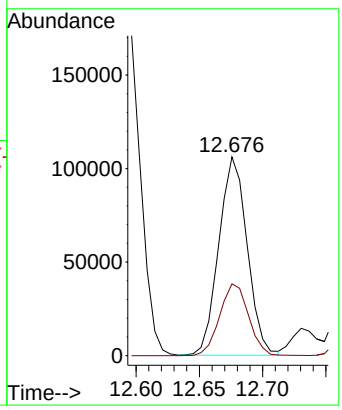
Ion	Ratio	Lower	Upper
91	100		
120	24.4	12.3	36.8



#79
2-Chlorotoluene
Concen: 9.762 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 91 Resp: 16558

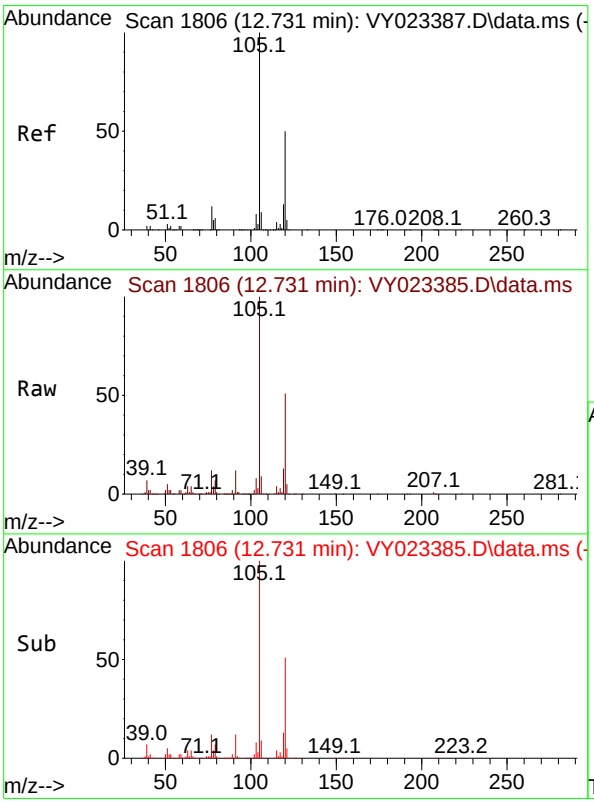
Ion	Ratio	Lower	Upper
91	100		
126	36.9	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

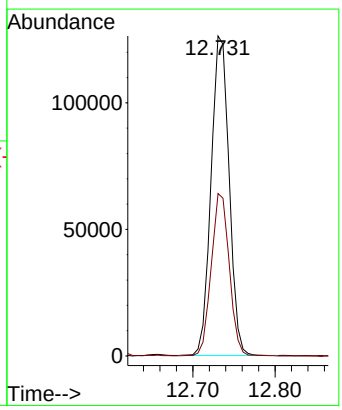
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

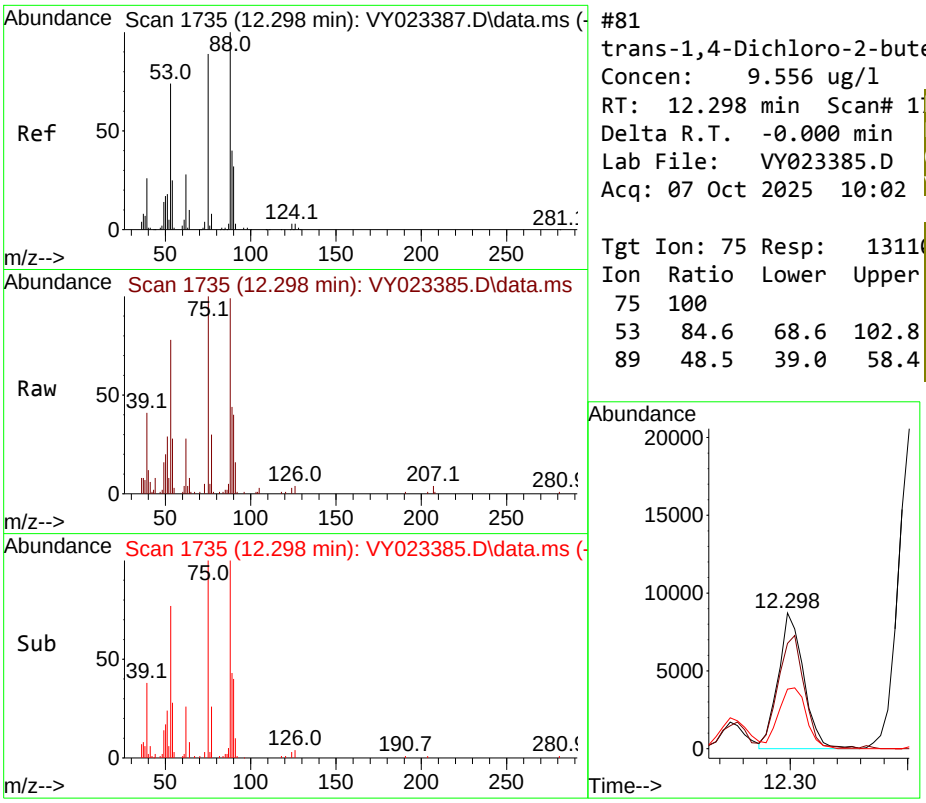


#80
1,3,5-Trimethylbenzene
Concen: 9.445 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:105 Resp: 191799

Ion	Ratio	Lower	Upper
105	100		
120	50.9	25.4	76.4





#81
trans-1,4-Dichloro-2-butene
Concen: 9.556 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

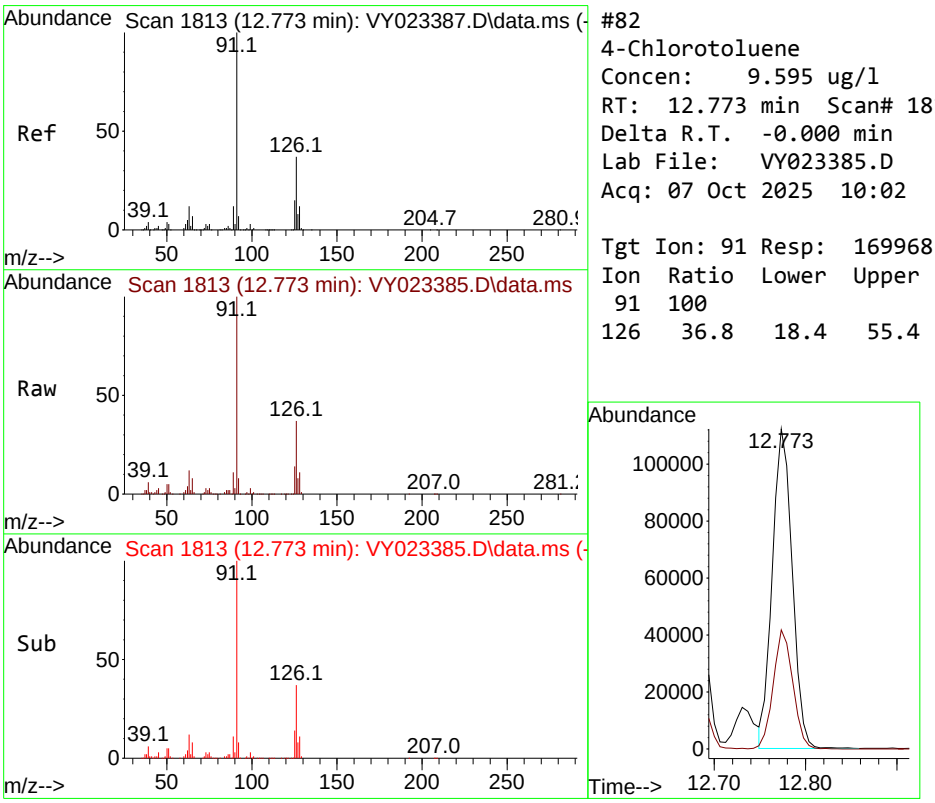
Tgt Ion: 75 Resp: 1311

Ion	Ratio	Lower	Upper
75	100		
53	84.6	68.6	102.8
89	48.5	39.0	58.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

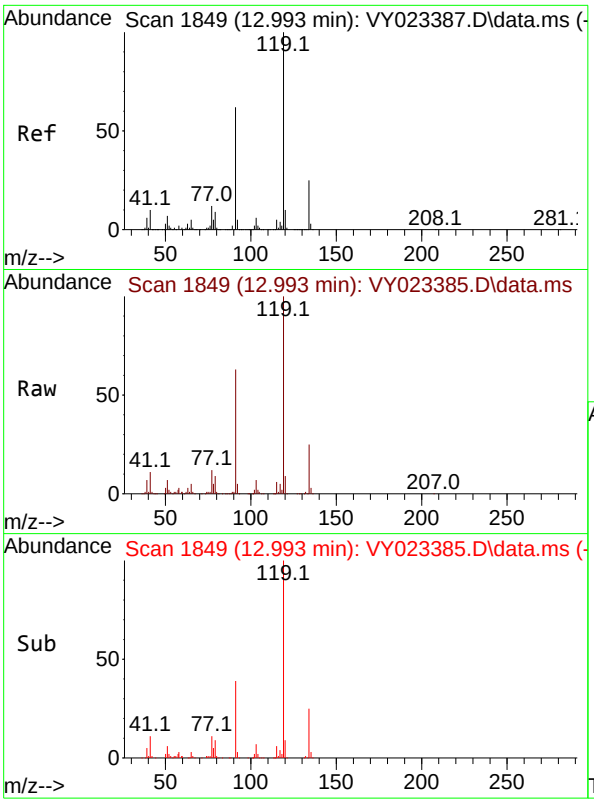
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#82
4-Chlorotoluene
Concen: 9.595 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 91 Resp: 169968

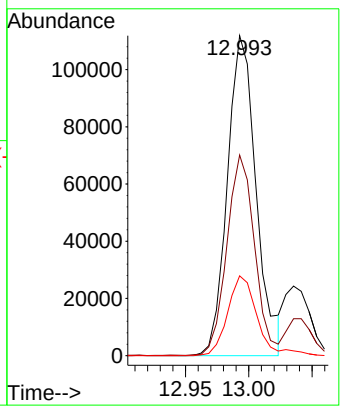
Ion	Ratio	Lower	Upper
91	100		
126	36.8	18.4	55.4



#83
tert-Butylbenzene
Concen: 9.579 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:119 Resp: 17725

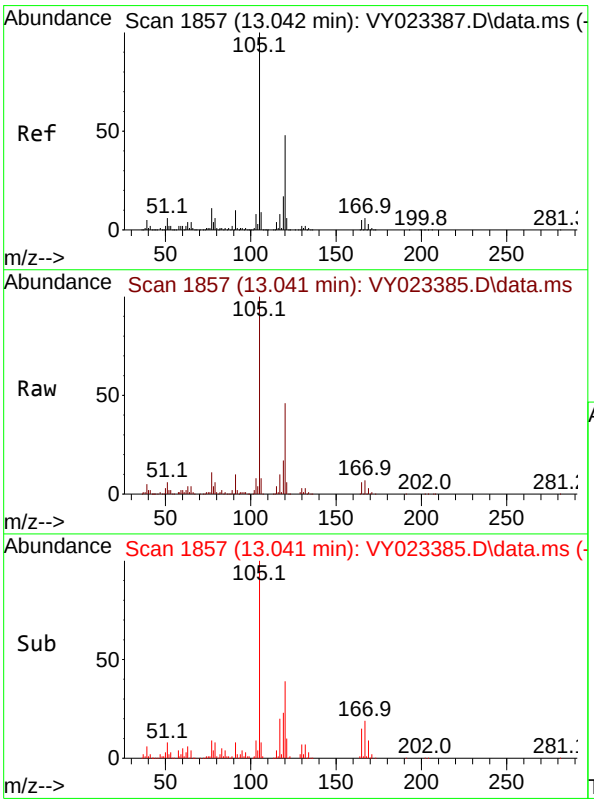
Ion	Ratio	Lower	Upper
119	100		
91	60.5	29.9	89.8
134	25.6	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

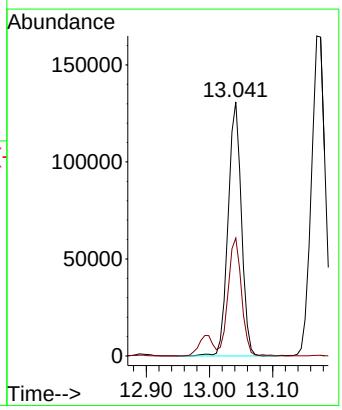
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

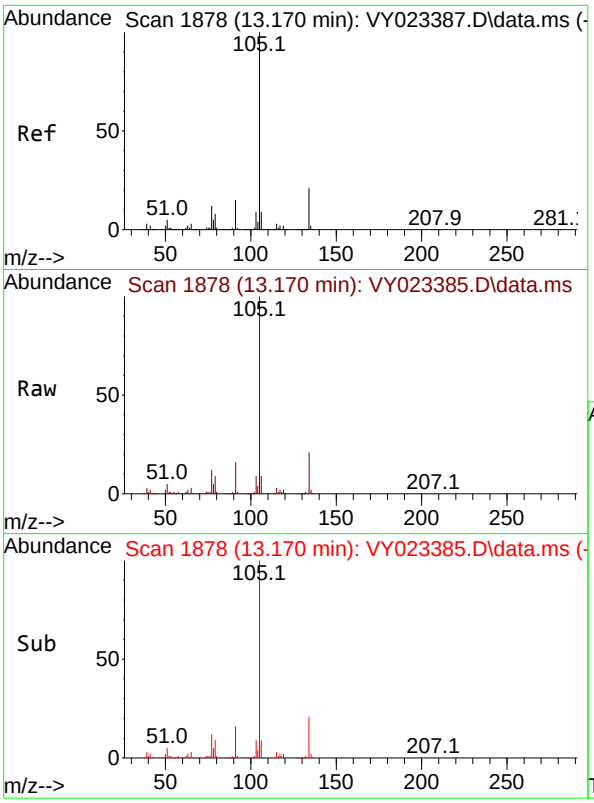


#84
1,2,4-Trimethylbenzene
Concen: 9.528 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:105 Resp: 191423

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.8	71.2

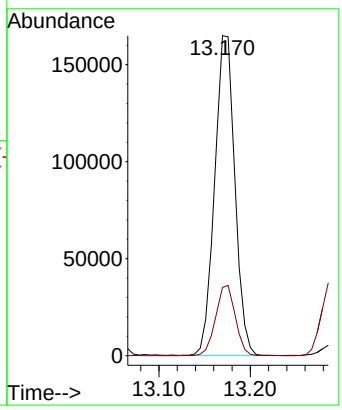




#85
sec-Butylbenzene
Concen: 9.483 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:105 Resp: 25413

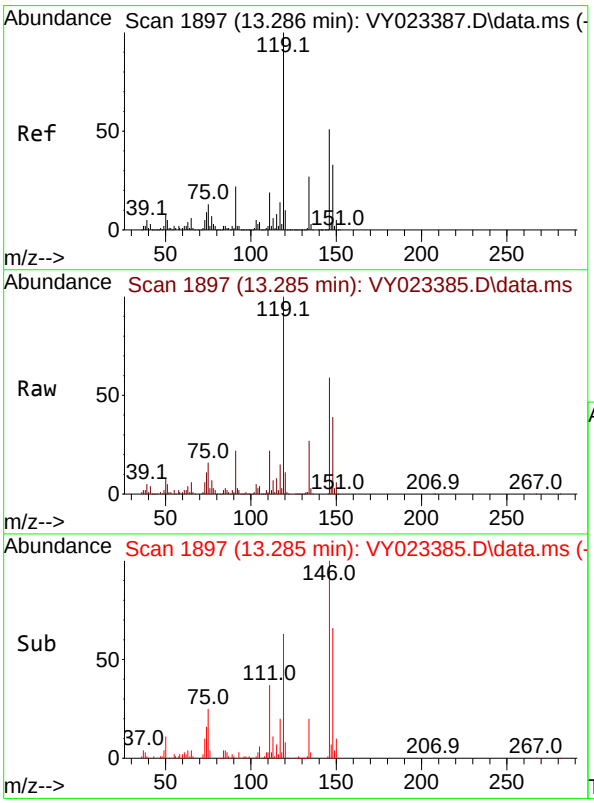
Ion	Ratio	Lower	Upper
105	100		
134	21.4	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

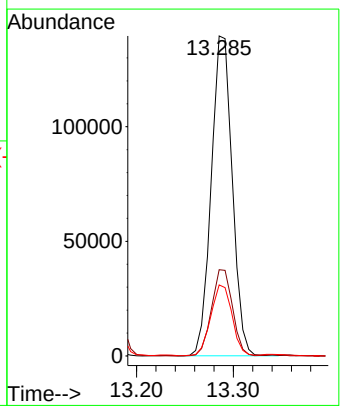
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

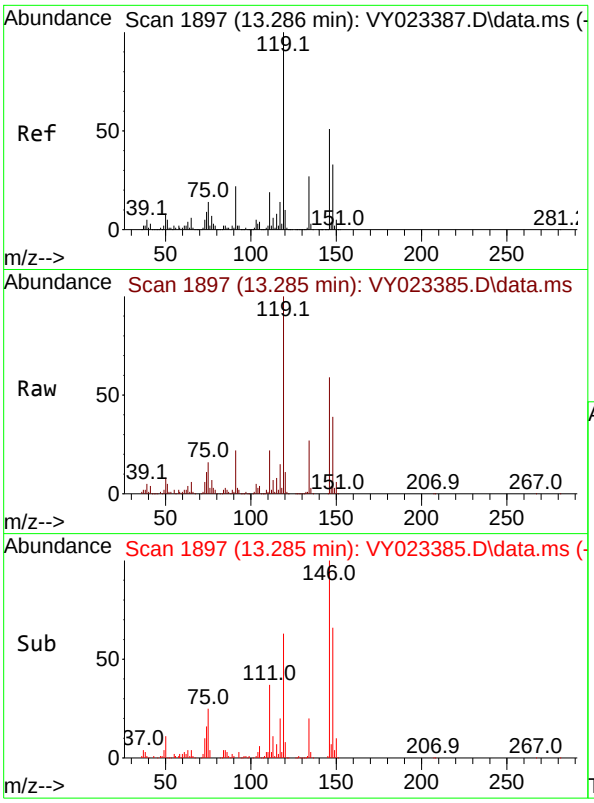


#86
p-Isopropyltoluene
Concen: 9.287 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:119 Resp: 210320

Ion	Ratio	Lower	Upper
119	100		
134	27.0	13.6	40.7
91	22.3	10.9	32.9

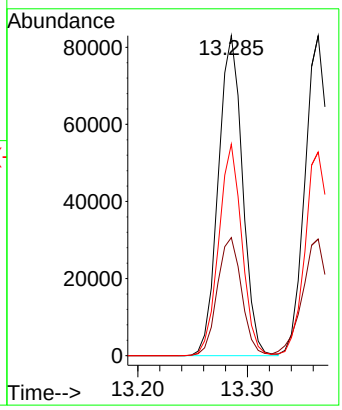




#87
1,3-Dichlorobenzene
Concen: 10.058 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:146 Resp: 12737

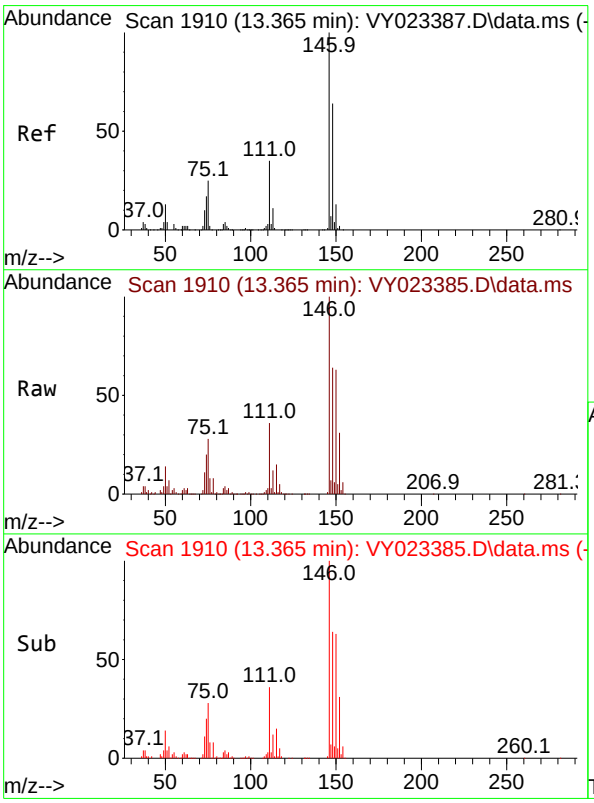
Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.7	56.1
148	63.2	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

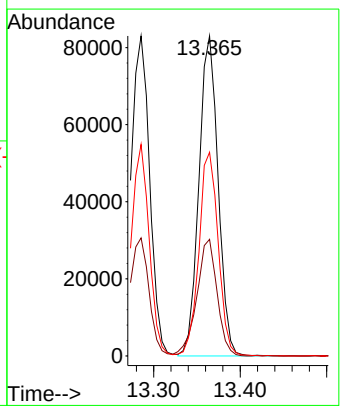
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

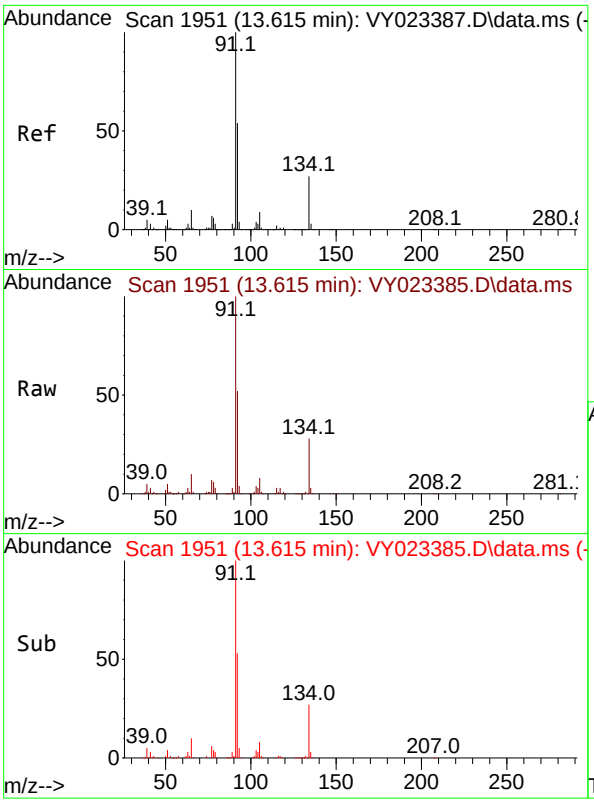


#88
1,4-Dichlorobenzene
Concen: 10.172 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:146 Resp: 127757

Ion	Ratio	Lower	Upper
146	100		
111	38.6	18.0	54.0
148	64.2	31.9	95.7

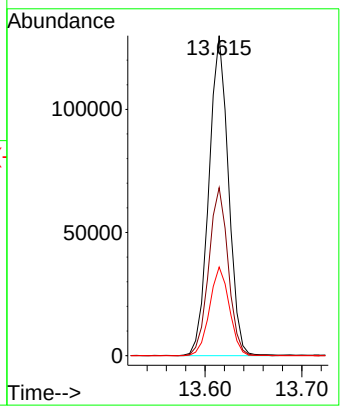




#89
n-Butylbenzene
Concen: 9.107 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 91 Resp: 18211

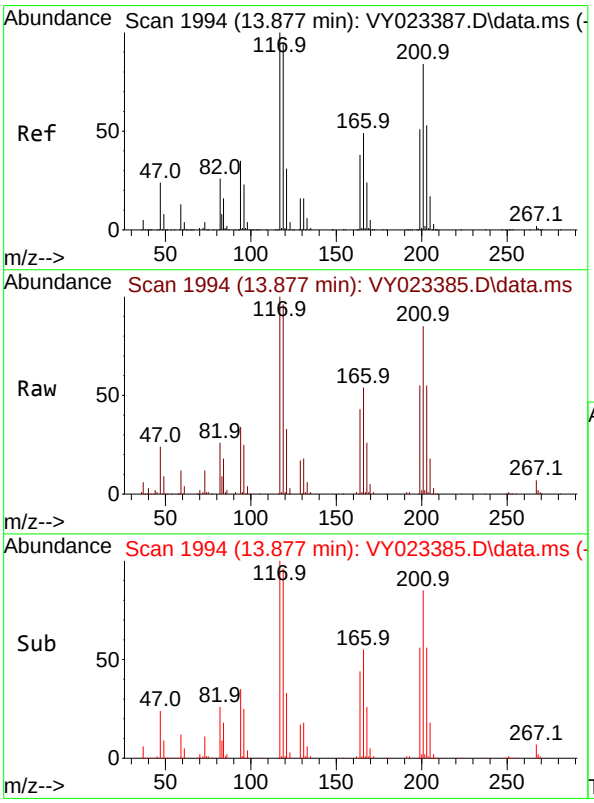
Ion	Ratio	Lower	Upper
91	100		
92	52.2	27.0	80.8
134	28.0	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

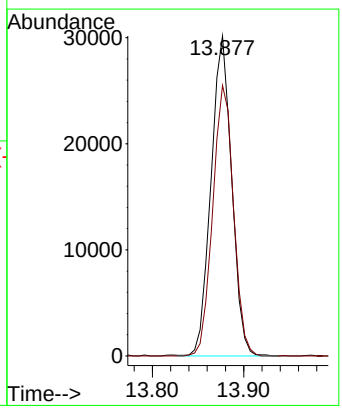
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

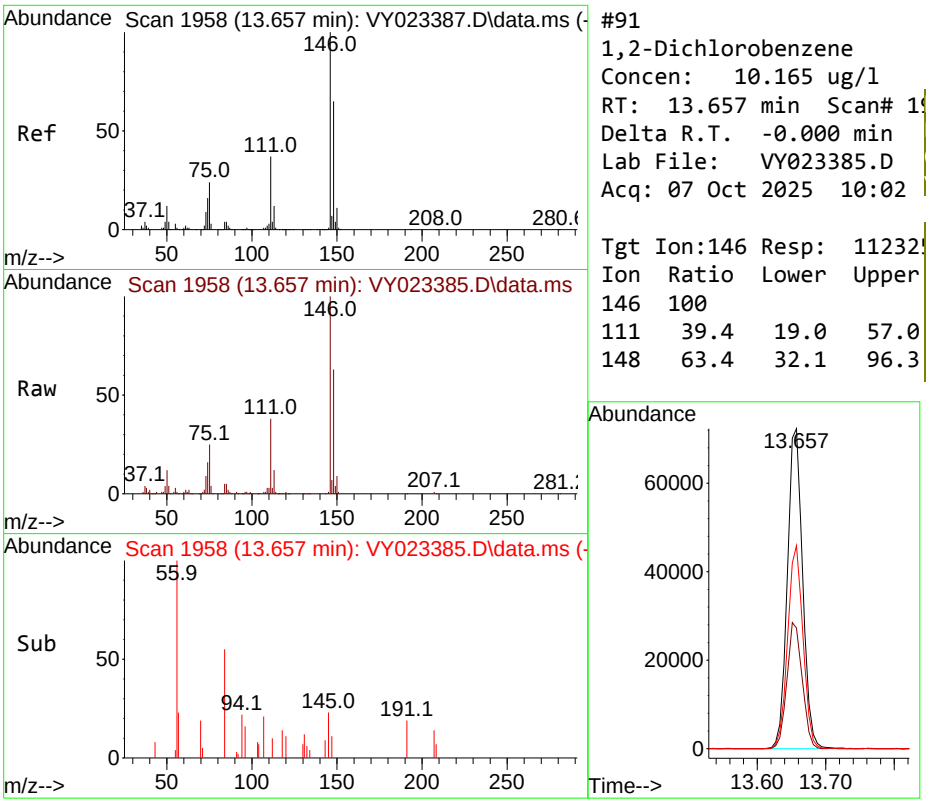


#90
Hexachloroethane
Concen: 9.630 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:117 Resp: 47355

Ion	Ratio	Lower	Upper
117	100		
201	85.0	43.8	131.4





#91
1,2-Dichlorobenzene
Concen: 10.165 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

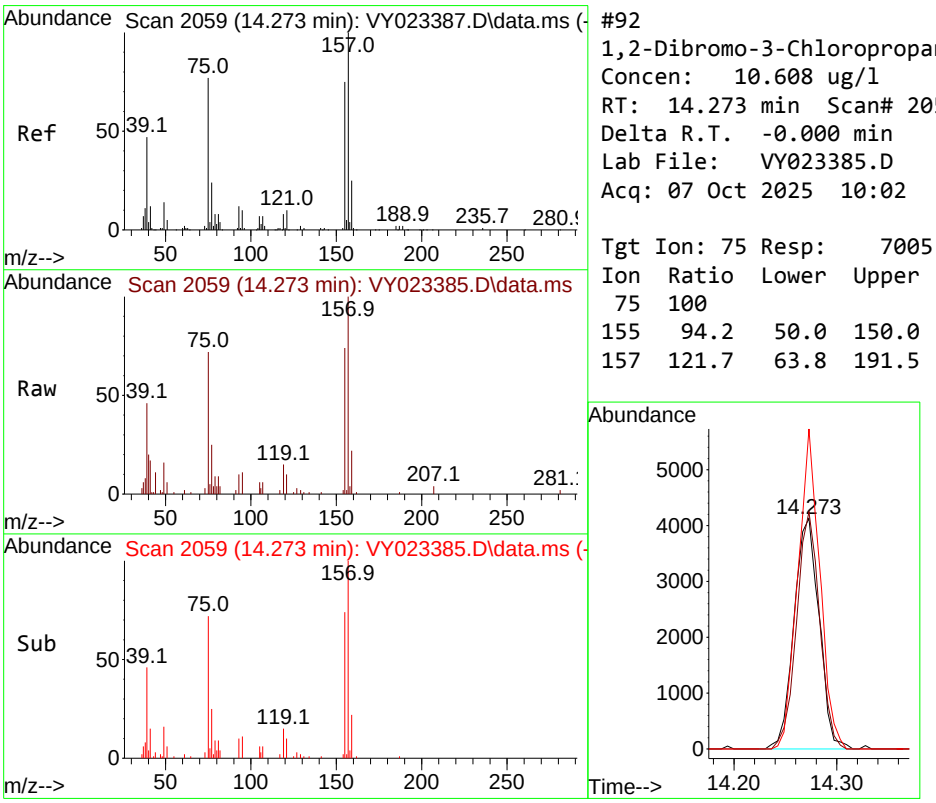
Tgt Ion:146 Resp: 11232

Ion	Ratio	Lower	Upper
146	100		
111	39.4	19.0	57.0
148	63.4	32.1	96.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

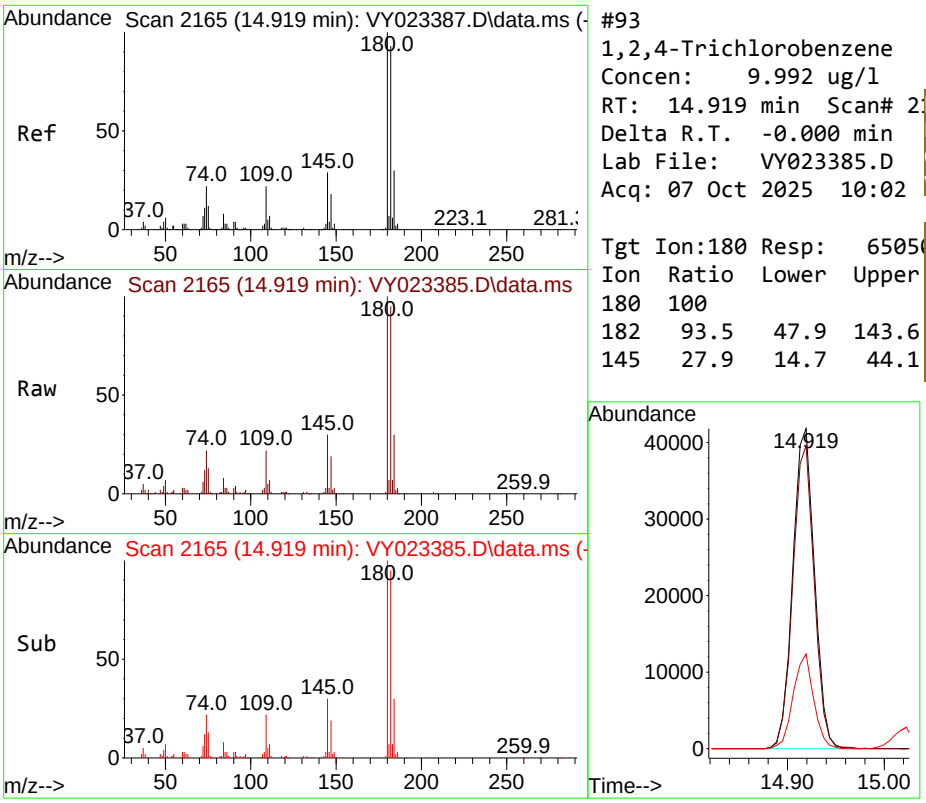
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 10.608 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 7005

Ion	Ratio	Lower	Upper
75	100		
155	94.2	50.0	150.0
157	121.7	63.8	191.5



#93
1,2,4-Trichlorobenzene
Concen: 9.992 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

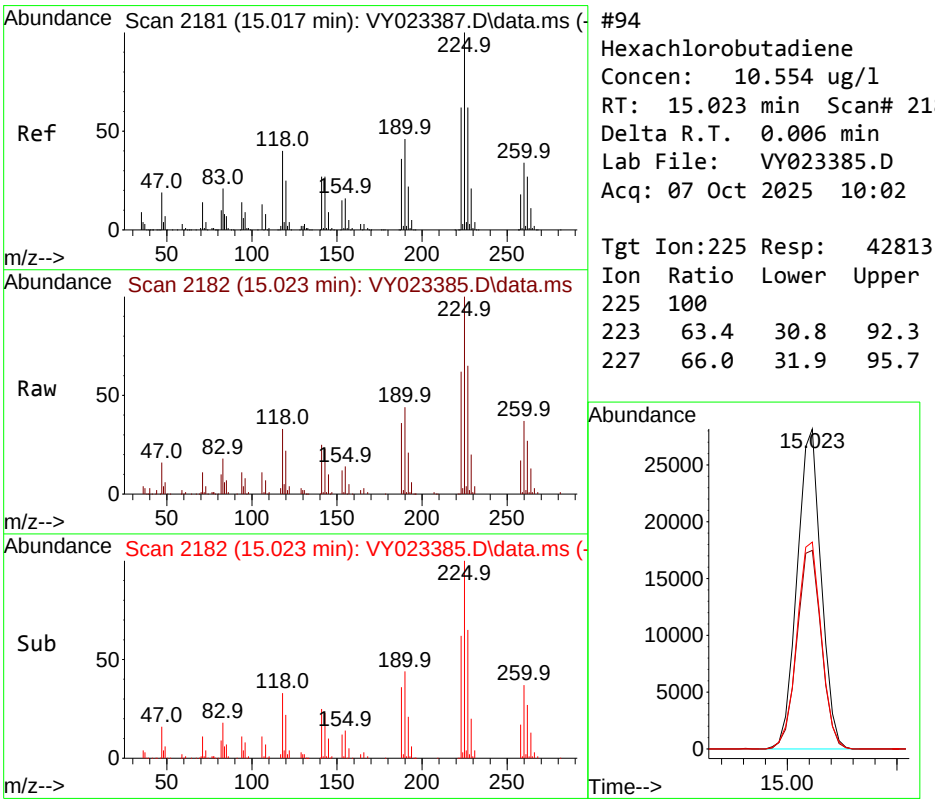
Tgt Ion:180 Resp: 6505

Ion	Ratio	Lower	Upper
180	100		
182	93.5	47.9	143.6
145	27.9	14.7	44.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

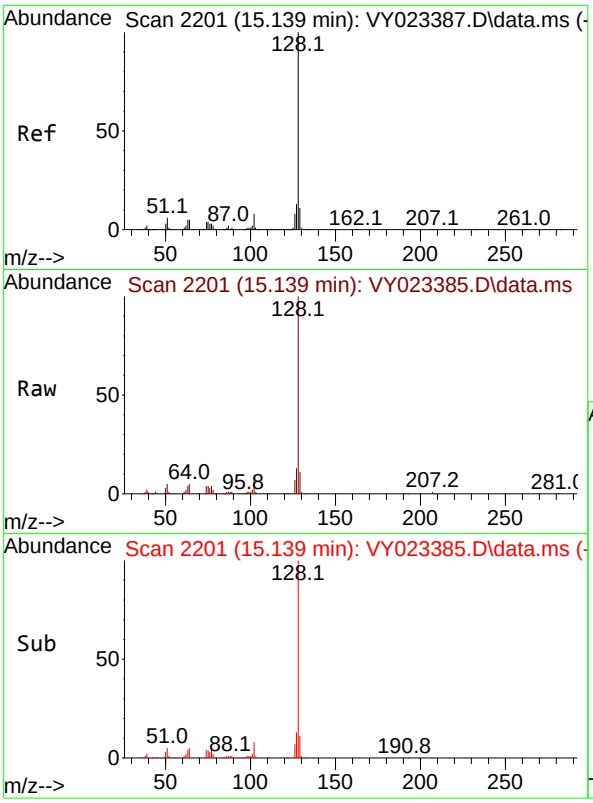
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#94
Hexachlorobutadiene
Concen: 10.554 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:225 Resp: 42813

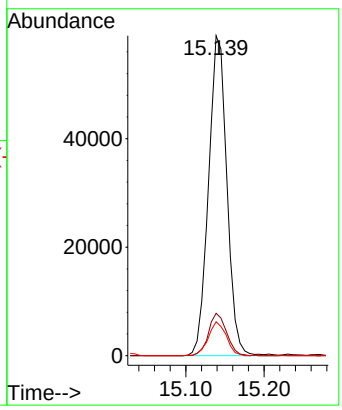
Ion	Ratio	Lower	Upper
225	100		
223	63.4	30.8	92.3
227	66.0	31.9	95.7



#95
Naphthalene
Concen: 9.264 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:128 Resp: 9609

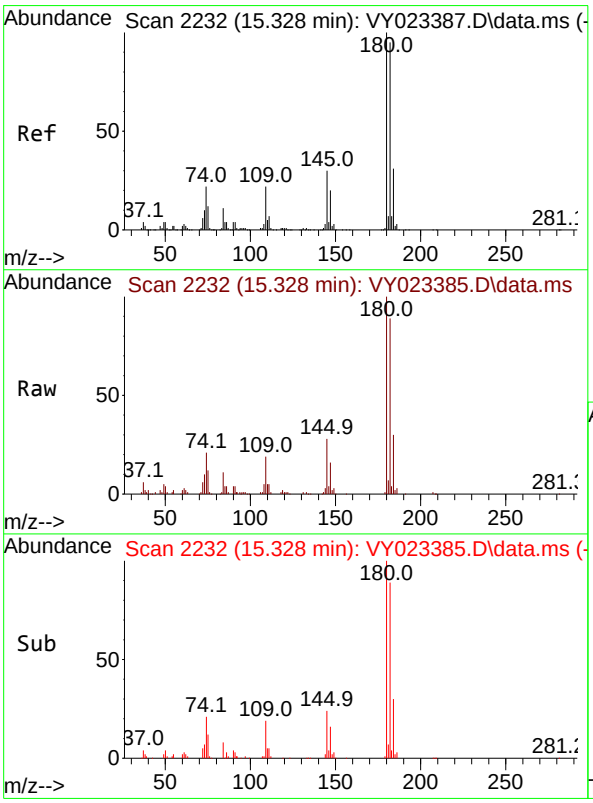
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.4	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

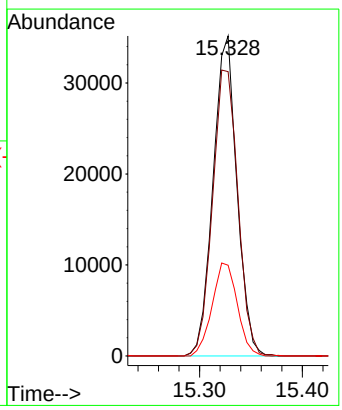
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#96
1,2,3-Trichlorobenzene
Concen: 10.004 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:180 Resp: 56499

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.9	143.8
145	30.8	15.3	45.9



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023386.D
Acq On : 07 Oct 2025 11:24
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 04:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	574363	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	851961	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	746872	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	382604	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	98481	19.798	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 39.600%#			
35) Dibromofluoromethane	7.634	113	108034	20.895	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 41.800%#			
50) Toluene-d8	10.103	98	401067	20.568	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 41.140%#			
62) 4-Bromofluorobenzene	12.401	95	127216	20.680	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 41.360%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	91924	20.318	ug/l	98
3) Chloromethane	2.074	50	117585	18.284	ug/l	100
4) Vinyl Chloride	2.202	62	151460	18.652	ug/l	99
5) Bromomethane	2.586	94	125948	18.907	ug/l	97
6) Chloroethane	2.732	64	103973	18.859	ug/l	94
7) Trichlorofluoromethane	3.049	101	217452	20.846	ug/l	99
8) Diethyl Ether	3.452	74	54124	19.837	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.811	101	109936	19.718	ug/l	99
10) Methyl Iodide	4.007	142	119083	18.482	ug/l	99
11) Tert butyl alcohol	4.854	59	34346	117.345	ug/l	98
12) 1,1-Dichloroethene	3.787	96	104778	19.531	ug/l	98
13) Acrolein	3.653	56	48115	97.023	ug/l	98
14) Allyl chloride	4.384	41	125424	18.674	ug/l	98
15) Acrylonitrile	5.055	53	99018	92.641	ug/l	100
16) Acetone	3.866	43	108209	96.742	ug/l	96
17) Carbon Disulfide	4.104	76	303284	18.121	ug/l	99
18) Methyl Acetate	4.384	43	59704	21.002	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	247030	19.667	ug/l	97
20) Methylene Chloride	4.616	84	132229	21.801	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	116410	19.512	ug/l	95
22) Diisopropyl ether	6.018	45	288429	19.366	ug/l	98
23) Vinyl Acetate	5.957	43	748048	91.373	ug/l	99
24) 1,1-Dichloroethane	5.915	63	190012	19.354	ug/l	99
25) 2-Butanone	6.896	43	132159	95.593	ug/l	93
26) 2,2-Dichloropropane	6.884	77	167903	19.247	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	133634	19.747	ug/l	99
28) Bromochloromethane	7.244	49	73407	19.273	ug/l	98
29) Tetrahydrofuran	7.262	42	76502	93.229	ug/l	99
30) Chloroform	7.421	83	207096	19.562	ug/l	100
31) Cyclohexane	7.701	56	160159	18.472	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	188861	19.873	ug/l	100
36) 1,1-Dichloropropene	7.835	75	140912	19.317	ug/l	100
37) Ethyl Acetate	6.982	43	55705	19.315	ug/l	98
38) Carbon Tetrachloride	7.817	117	171925	20.289	ug/l	99
39) Methylcyclohexane	9.109	83	182831	19.576	ug/l	99
40) Benzene	8.079	78	450471	19.809	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023386.D
Acq On : 07 Oct 2025 11:24
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 08 04:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.225	41	31129m	20.783	ug/l		
42) 1,2-Dichloroethane	8.158	62	116941	20.206	ug/l		99
43) Isopropyl Acetate	8.195	43	106595	19.002	ug/l	#	87
44) Trichloroethene	8.865	130	131459	20.598	ug/l		98
45) 1,2-Dichloropropane	9.140	63	99363	19.417	ug/l		98
46) Dibromomethane	9.231	93	62277	19.896	ug/l		98
47) Bromodichloromethane	9.420	83	156426	19.854	ug/l		98
48) Methyl methacrylate	9.219	41	50661	19.352	ug/l		99
49) 1,4-Dioxane	9.225	88	13636	420.712	ug/l		99
51) 4-Methyl-2-Pentanone	9.999	43	274059	95.378	ug/l		100
52) Toluene	10.170	92	291453	20.191	ug/l		100
53) t-1,3-Dichloropropene	10.390	75	132848	19.632	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	158580	19.606	ug/l		95
55) 1,1,2-Trichloroethane	10.572	97	82183	19.740	ug/l		96
56) Ethyl methacrylate	10.438	69	89244	18.613	ug/l		99
57) 1,3-Dichloropropane	10.719	76	130650	19.389	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.713	63	190850m	90.982	ug/l		
59) 2-Hexanone	10.761	43	187387	94.190	ug/l		99
60) Dibromochloromethane	10.908	129	115907	20.412	ug/l		100
61) 1,2-Dibromoethane	11.011	107	78579	20.062	ug/l		100
64) Tetrachloroethene	10.646	164	167648	22.438	ug/l		97
65) Chlorobenzene	11.438	112	326360	20.109	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	116412	20.396	ug/l		99
67) Ethyl Benzene	11.517	91	523606	19.768	ug/l		99
68) m/p-Xylenes	11.627	106	426913	40.211	ug/l		100
69) o-Xylene	11.956	106	195021	19.843	ug/l		96
70) Styrene	11.968	104	327934	20.208	ug/l		99
71) Bromoform	12.133	173	71119	20.814	ug/l	#	99
73) Isopropylbenzene	12.255	105	513183	20.136	ug/l		99
74) N-amyl acetate	12.072	43	85063	17.860	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	76821	18.069	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	74100m	19.634	ug/l		
77) Bromobenzene	12.529	156	135402	20.700	ug/l		98
78) n-propylbenzene	12.596	91	597829	19.945	ug/l		100
79) 2-Chlorotoluene	12.676	91	349203	20.179	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	418684	20.208	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	26922	19.234	ug/l		98
82) 4-Chlorotoluene	12.773	91	361458	20.000	ug/l		99
83) tert-Butylbenzene	12.993	119	377277	19.983	ug/l		99
84) 1,2,4-Trimethylbenzene	13.041	105	413292	20.162	ug/l		100
85) sec-Butylbenzene	13.176	105	546582	19.990	ug/l		100
86) p-Isopropyltoluene	13.291	119	464005	20.081	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	262901	20.347	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	259217	20.230	ug/l		99
89) n-Butylbenzene	13.615	91	401893	19.697	ug/l		98
90) Hexachloroethane	13.877	117	98983	19.730	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	231199	20.507	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	12668	18.802	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	137963	20.770	ug/l		99
94) Hexachlorobutadiene	15.023	225	87575	21.159	ug/l		99
95) Naphthalene	15.145	128	206017	19.467	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	121656	21.113	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023386.D
Acq On : 07 Oct 2025 11:24
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

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

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

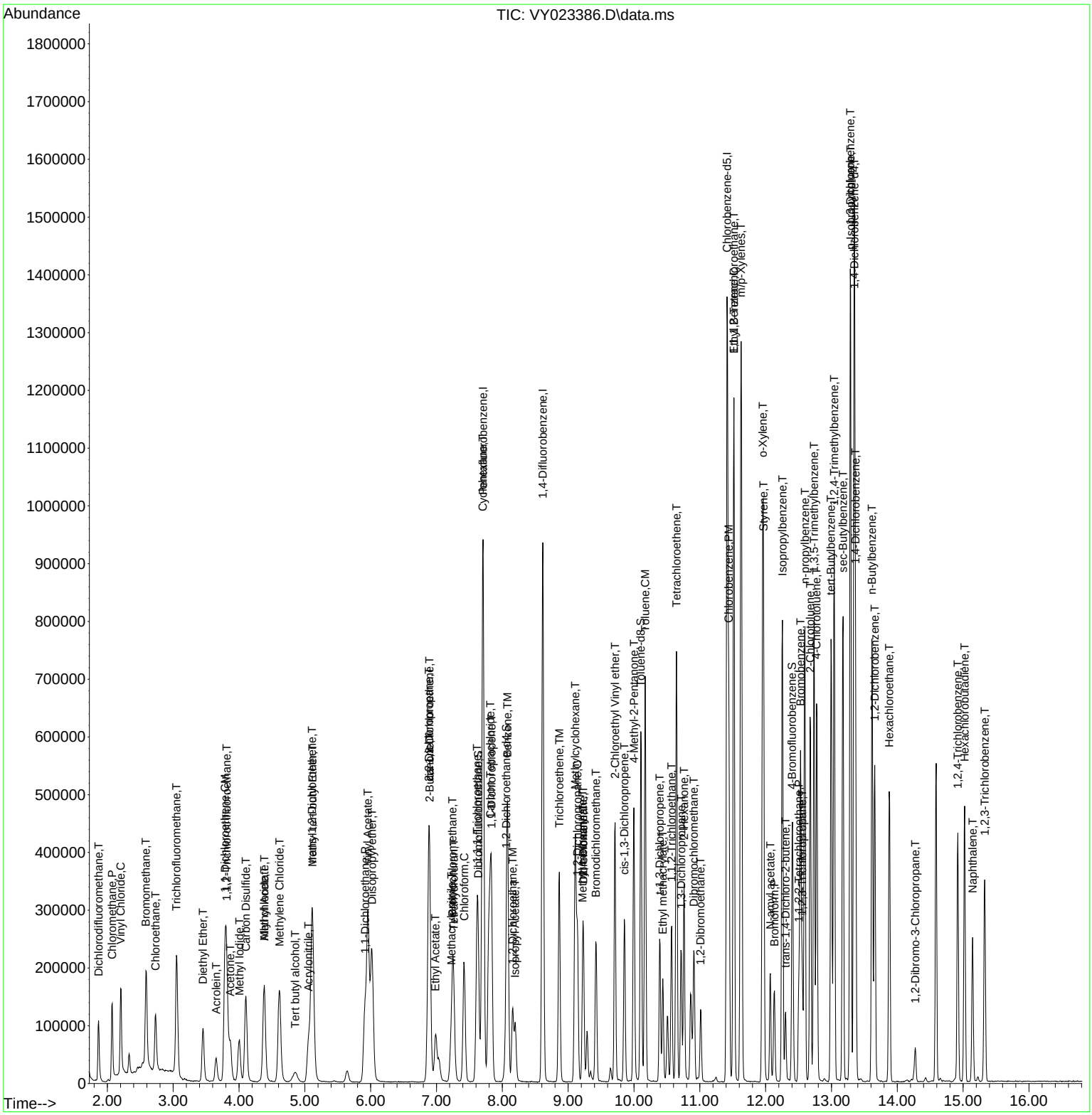
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Data File : VY023386.D
Acq On : 07 Oct 2025 11:24
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

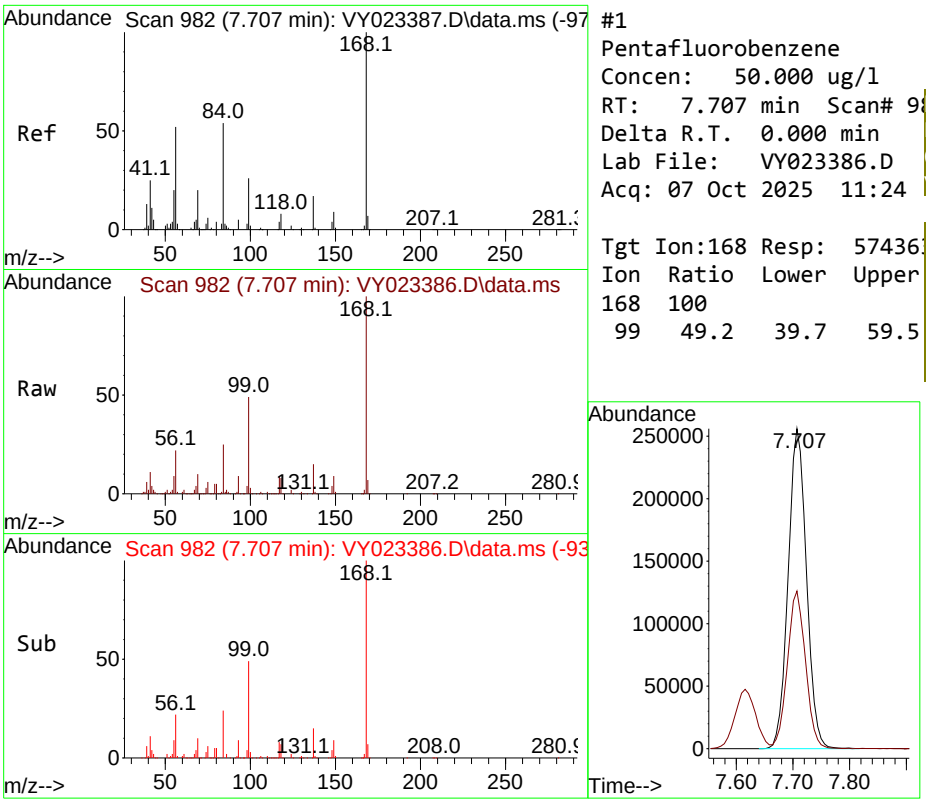
Quant Time: Oct 08 04:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

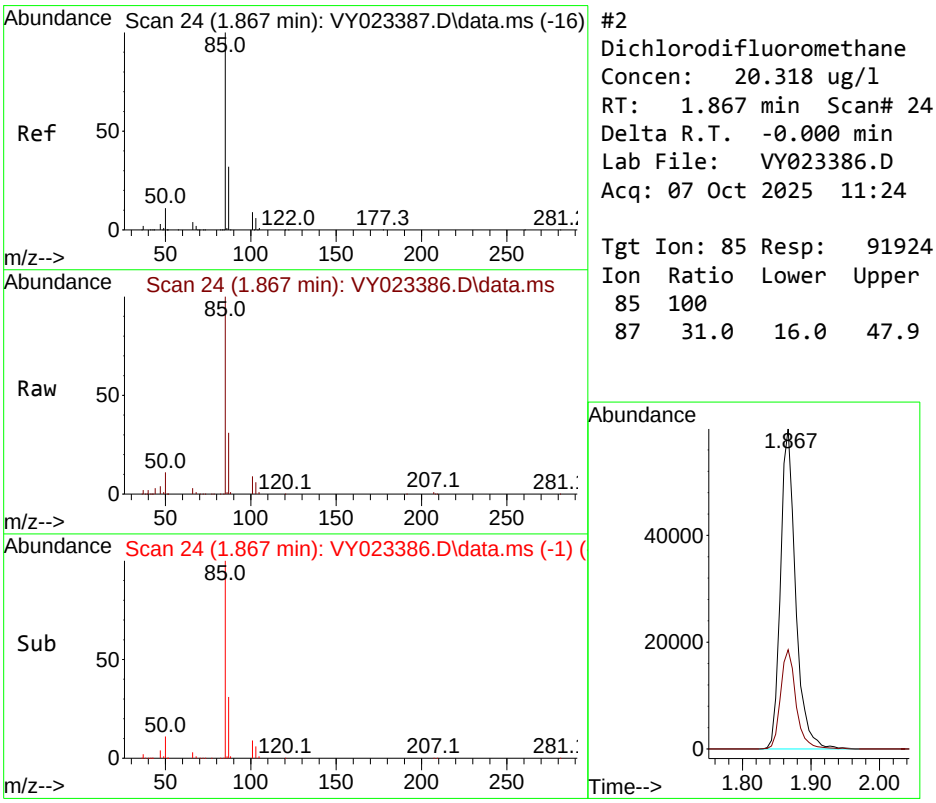
Tgt Ion:168 Resp: 57436

Ion	Ratio	Lower	Upper
168	100		
99	49.2	39.7	59.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

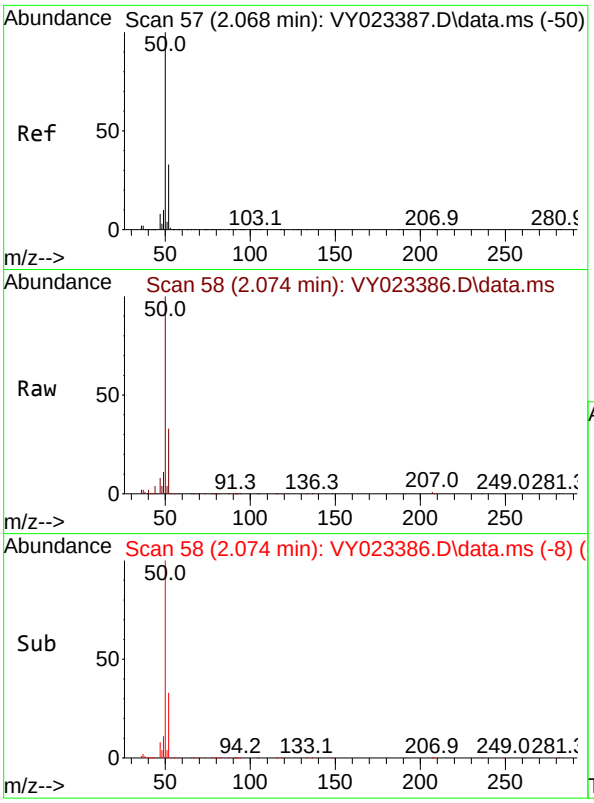
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#2
Dichlorodifluoromethane
Concen: 20.318 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 85 Resp: 91924

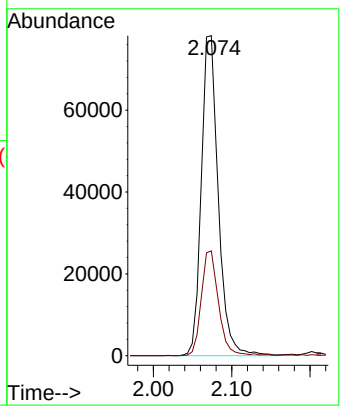
Ion	Ratio	Lower	Upper
85	100		
87	31.0	16.0	47.9



#3
Chloromethane
Concen: 18.284 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 50 Resp: 11758

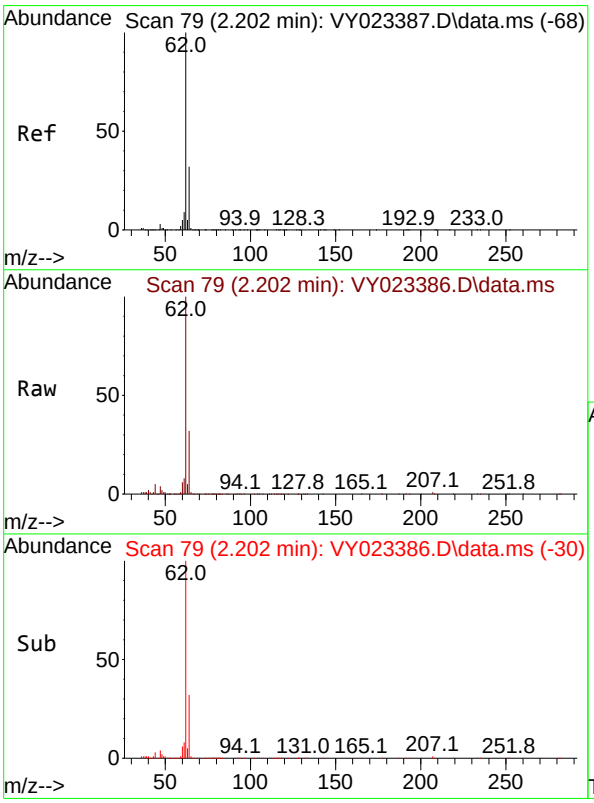
Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

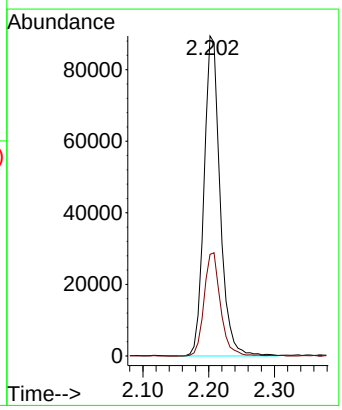
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

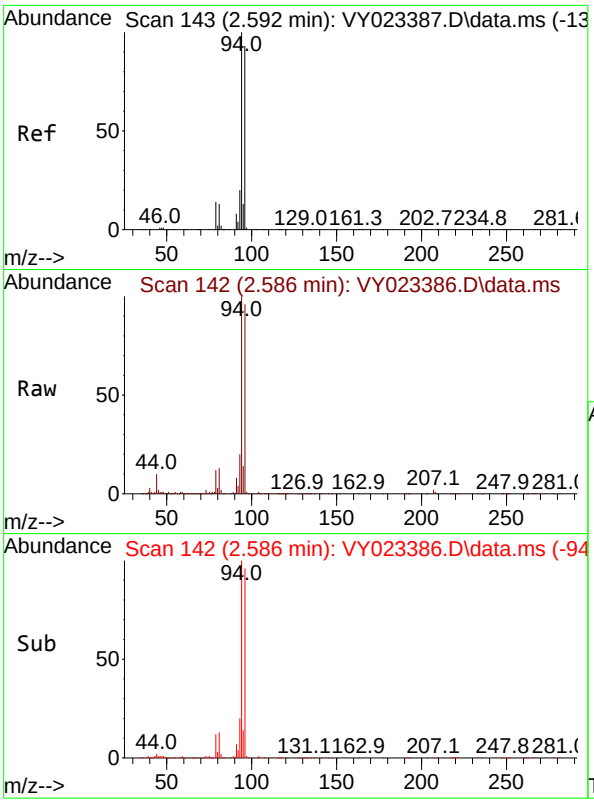


#4
Vinyl Chloride
Concen: 18.652 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 62 Resp: 151460

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.8	38.8

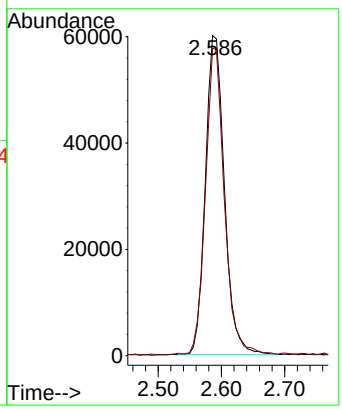




#5
Bromomethane
Concen: 18.907 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 94 Resp: 12594

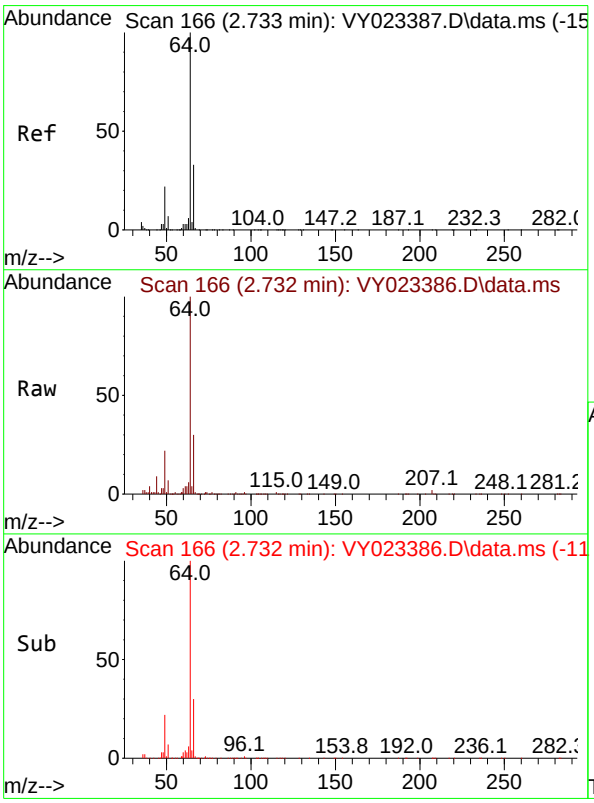
Ion	Ratio	Lower	Upper
94	100		
96	95.9	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

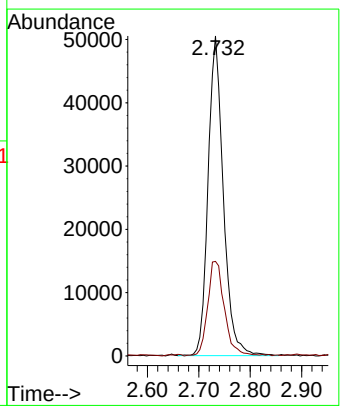
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

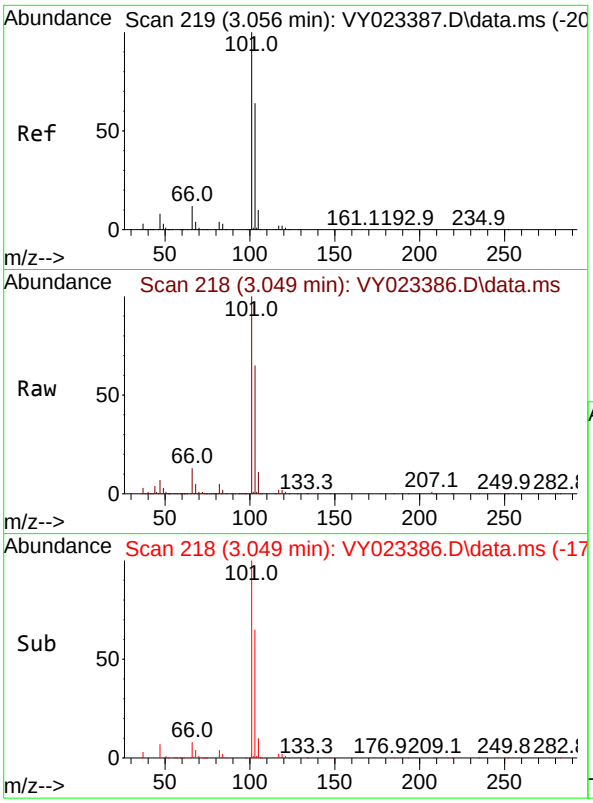


#6
Chloroethane
Concen: 18.859 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 64 Resp: 103973

Ion	Ratio	Lower	Upper
64	100		
66	29.3	26.2	39.4

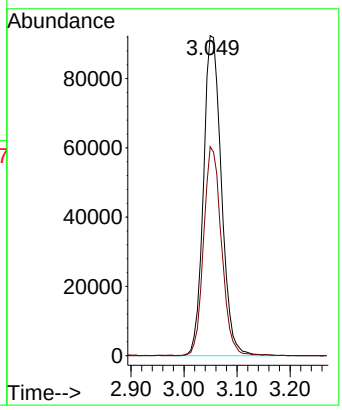




#7
Trichlorofluoromethane
Concen: 20.846 ug/l
RT: 3.049 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:101 Resp: 21745

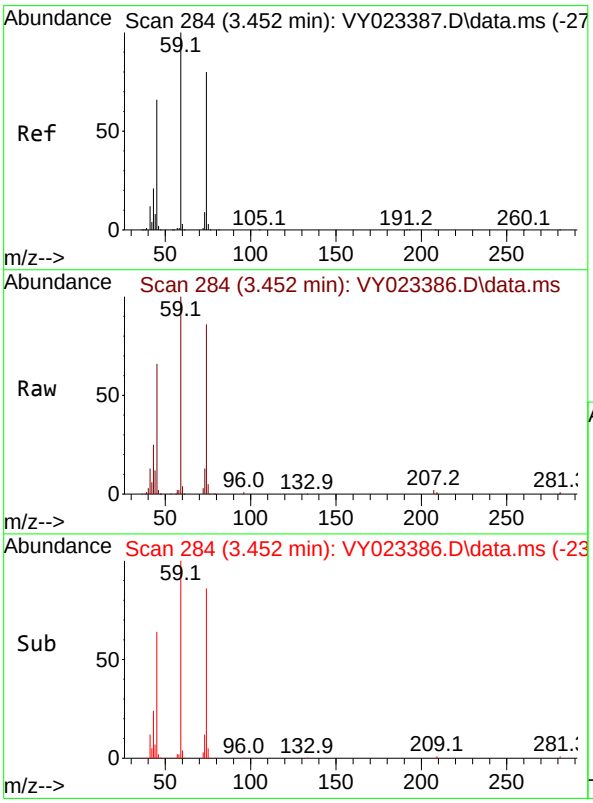
Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

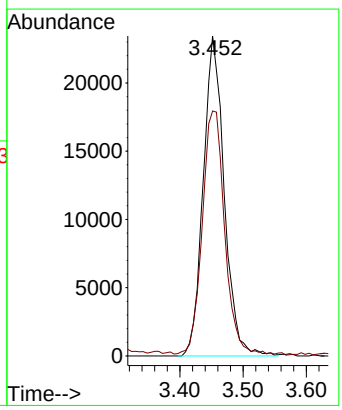
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

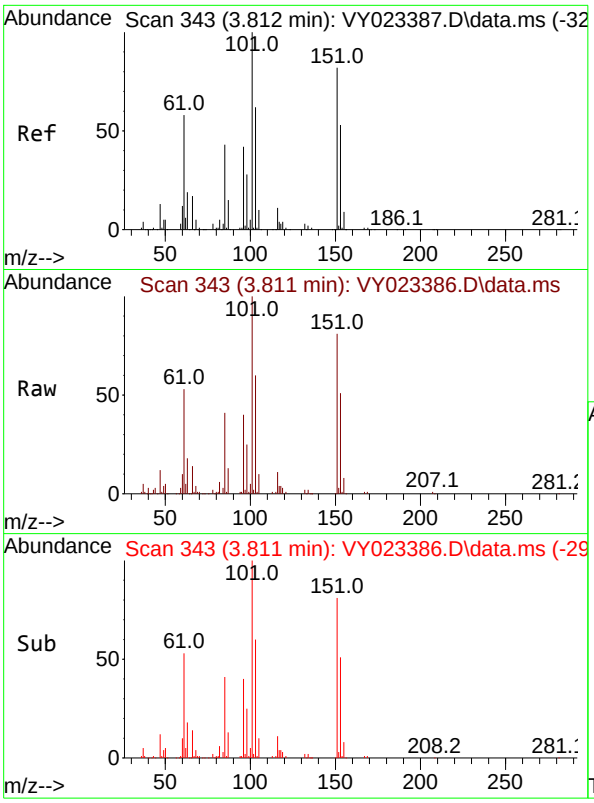


#8
Diethyl Ether
Concen: 19.837 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 74 Resp: 54124

Ion	Ratio	Lower	Upper
74	100		
45	80.6	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.718 ug/l
RT: 3.811 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

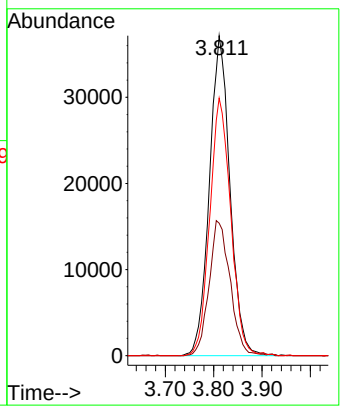
Tgt Ion:101 Resp: 10993

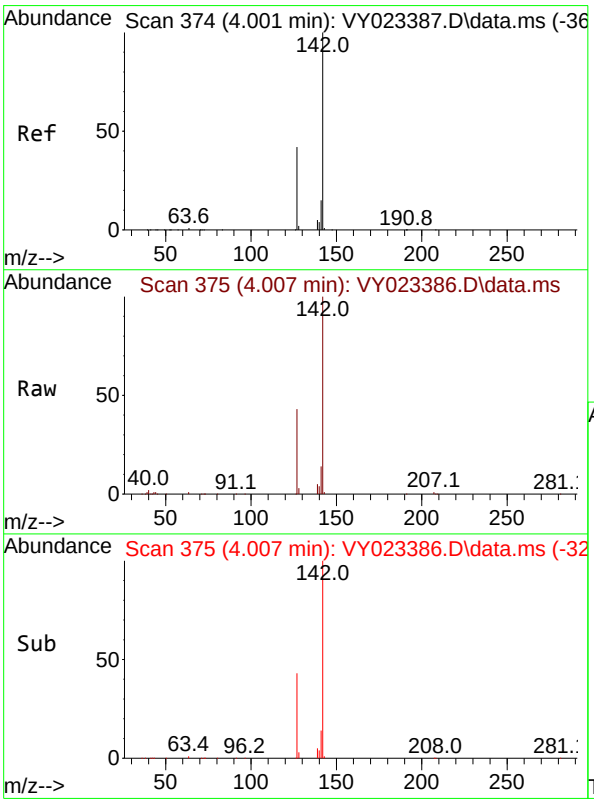
Ion	Ratio	Lower	Upper
101	100		
85	43.1	34.6	51.8
151	82.2	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

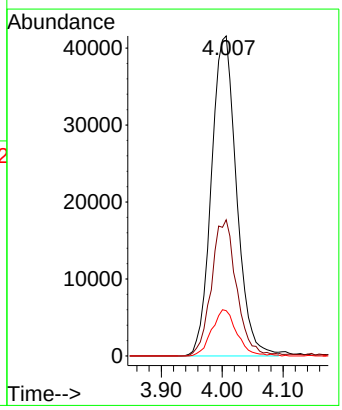


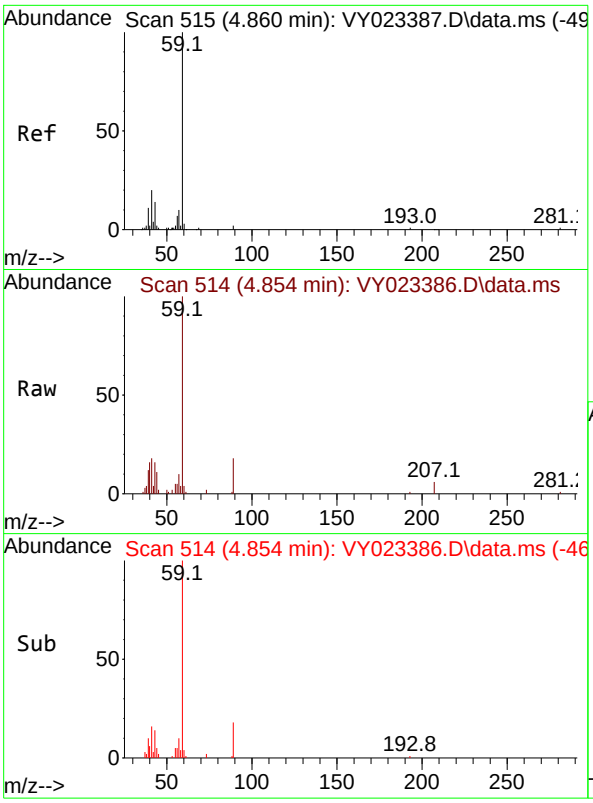


#10
Methyl Iodide
Concen: 18.482 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:142 Resp: 119083

Ion	Ratio	Lower	Upper
142	100		
127	42.9	34.8	52.2
141	14.5	11.6	17.4

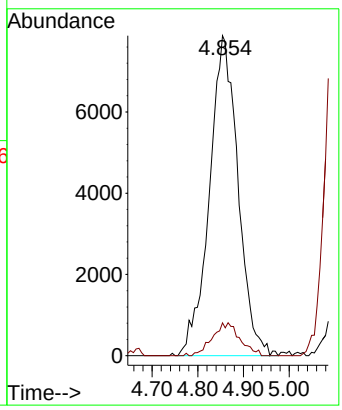




#11
Tert butyl alcohol
Concen: 117.345 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 59 Resp: 3434

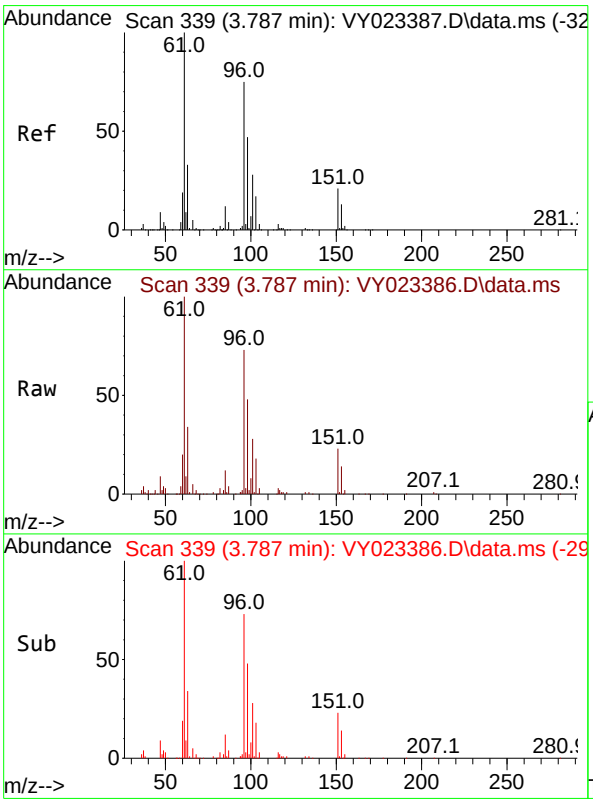
Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

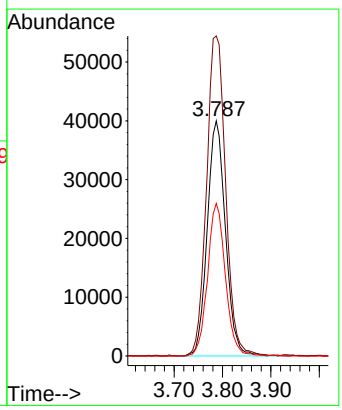
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

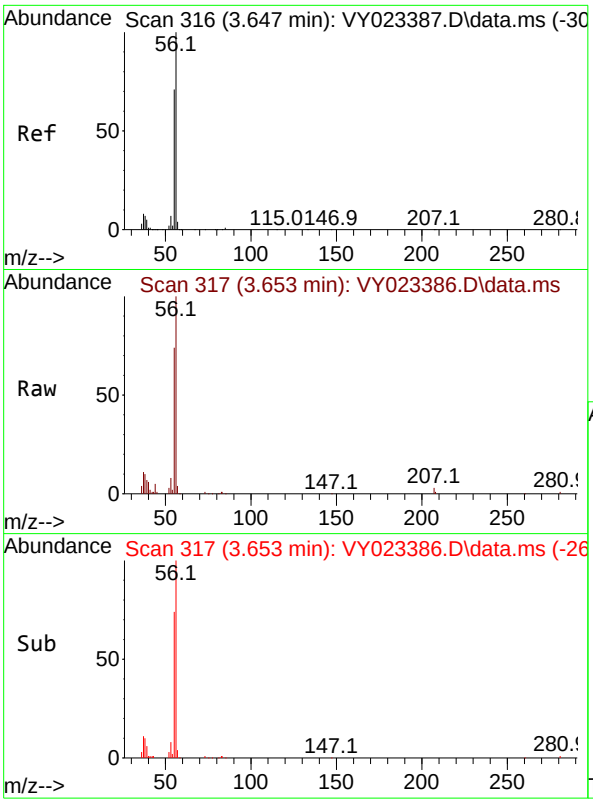


#12
1,1-Dichloroethene
Concen: 19.531 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 96 Resp: 104778

Ion	Ratio	Lower	Upper
96	100		
61	136.2	106.7	160.1
98	64.9	50.2	75.4

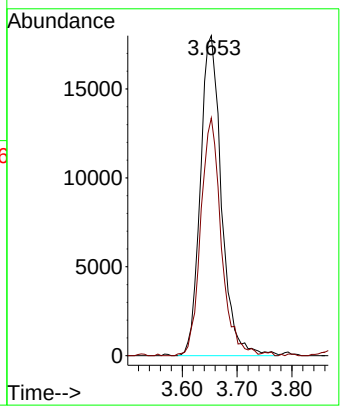




#13
Acrolein
Concen: 97.023 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 56 Resp: 4811

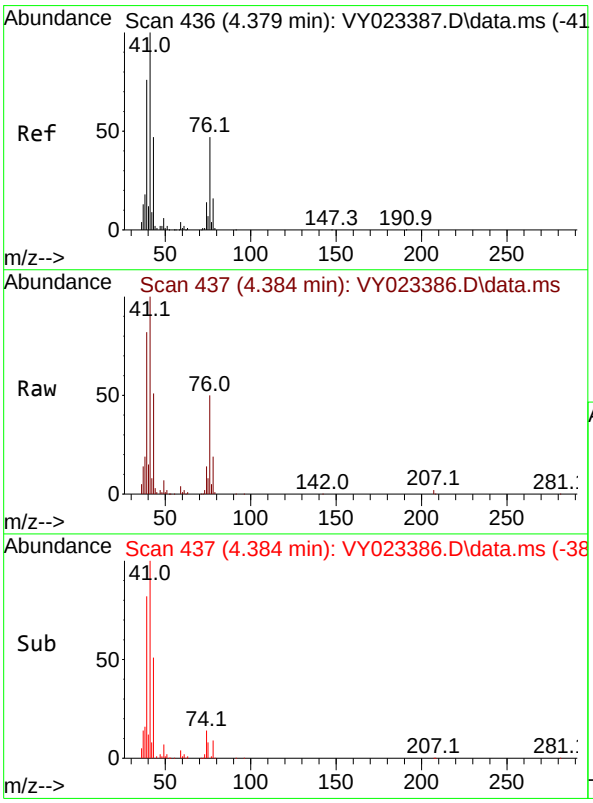
Ion	Ratio	Lower	Upper
56	100		
55	72.0	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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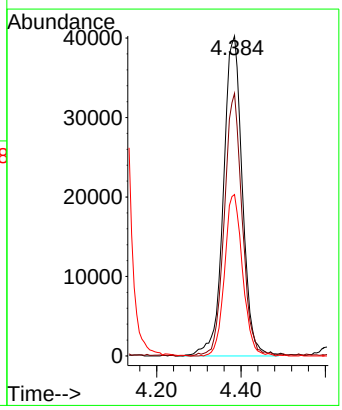
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

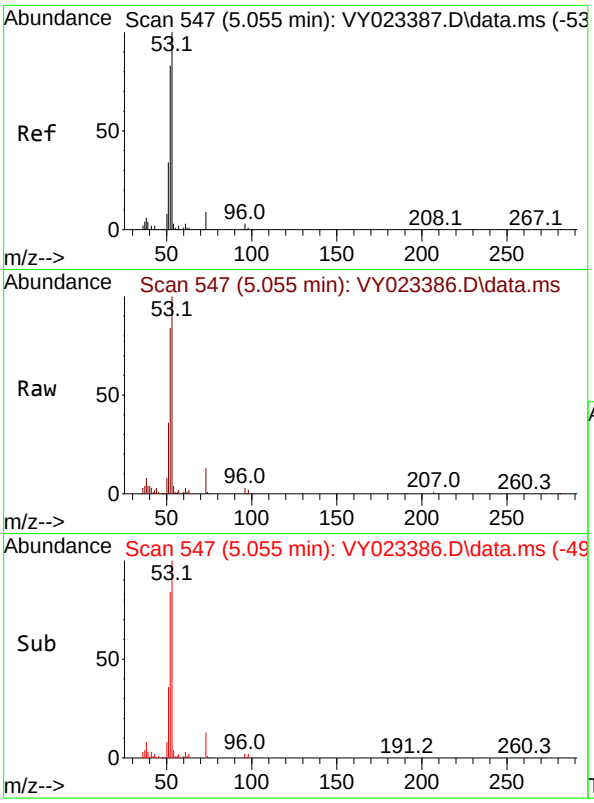


#14
Allyl chloride
Concen: 18.674 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 41 Resp: 125424

Ion	Ratio	Lower	Upper
41	100		
39	77.6	59.9	89.9
76	47.9	38.0	57.0

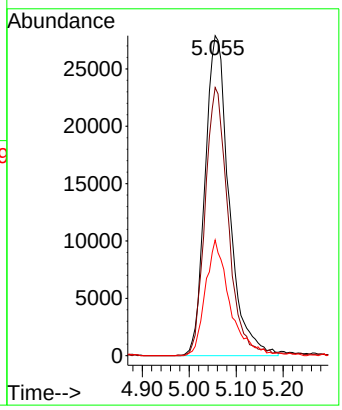




#15
Acrylonitrile
Concen: 92.641 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 53 Resp: 9901

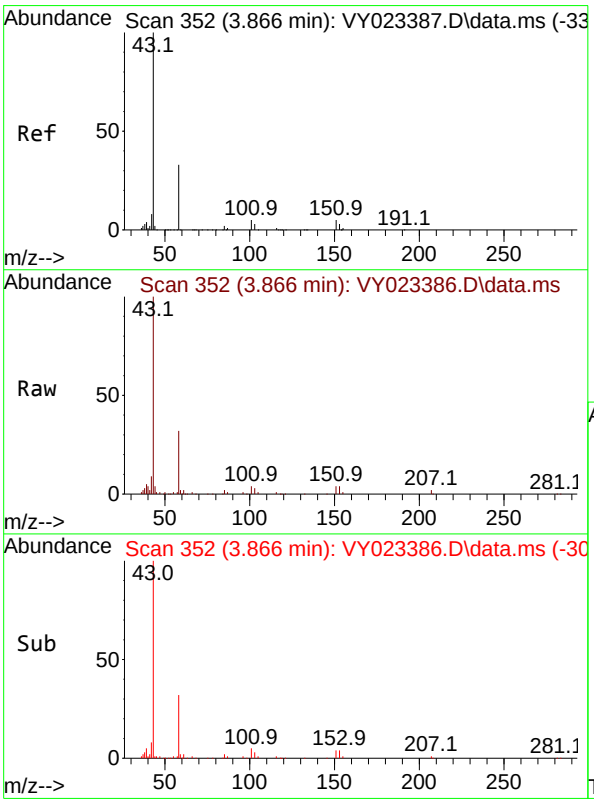
Ion	Ratio	Lower	Upper
53	100		
52	80.7	64.6	97.0
51	36.6	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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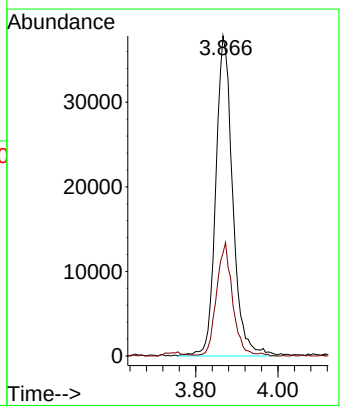
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

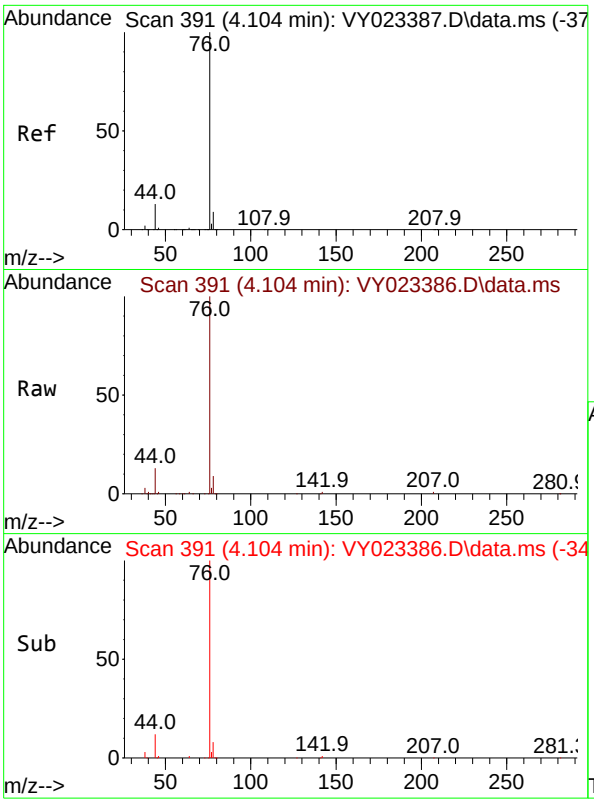


#16
Acetone
Concen: 96.742 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 108209

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.7	41.5

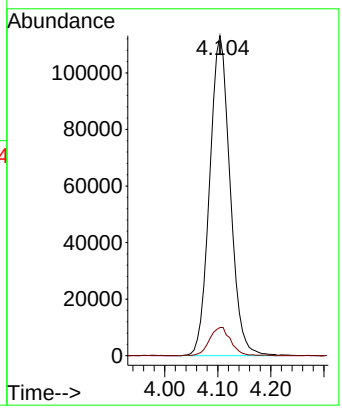




#17
Carbon Disulfide
Concen: 18.121 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 76 Resp: 30328

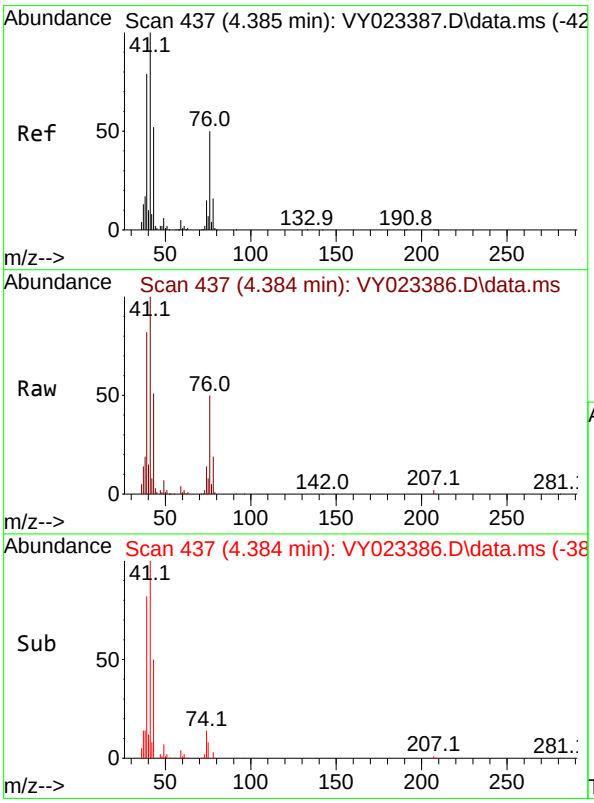
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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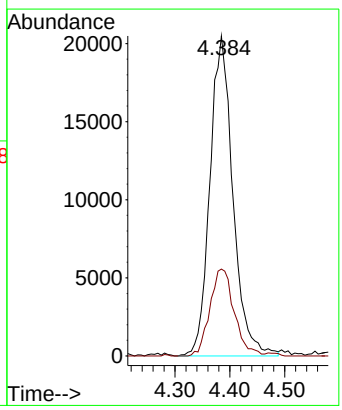
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

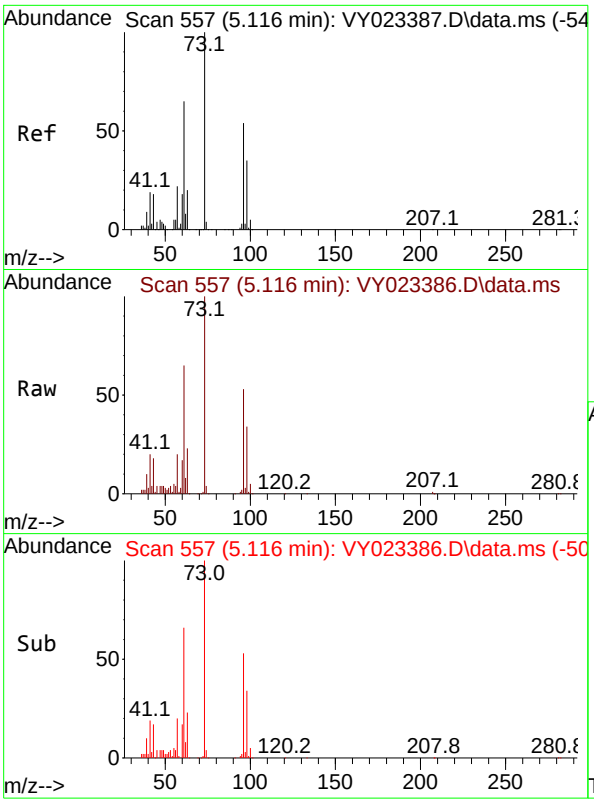


#18
Methyl Acetate
Concen: 21.002 ug/l
RT: 4.384 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 59704

Ion	Ratio	Lower	Upper
43	100		
74	28.7	24.2	36.4

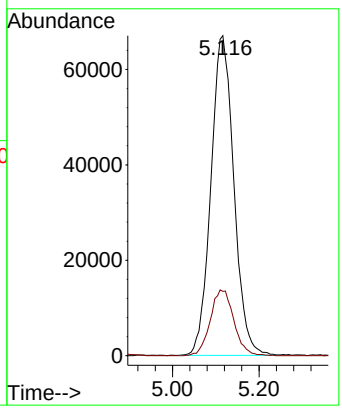




#19
Methyl tert-butyl Ether
Concen: 19.667 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 73 Resp: 24703

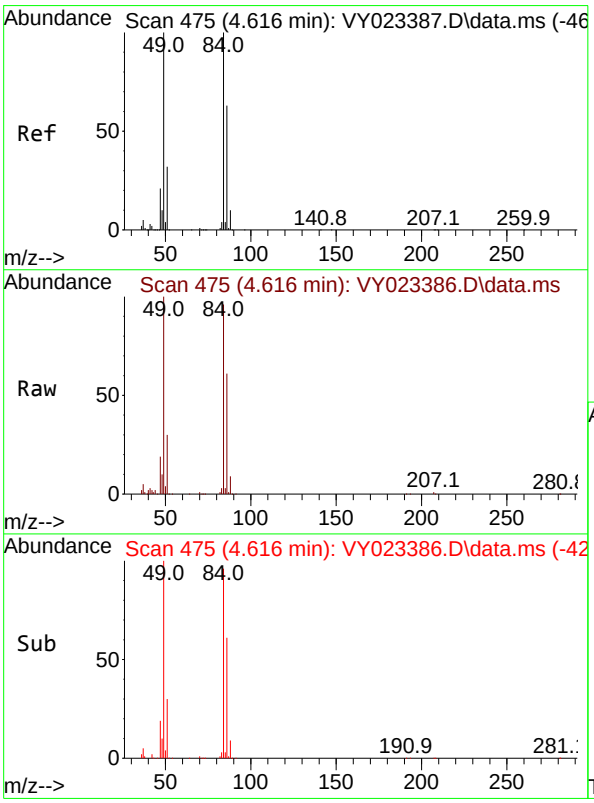
Ion	Ratio	Lower	Upper
73	100		
57	20.1	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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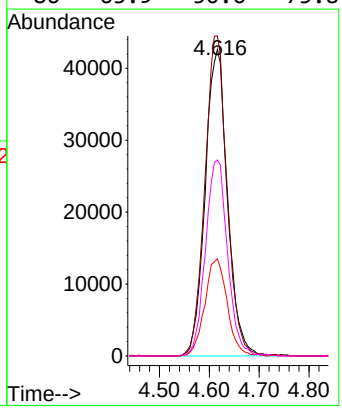
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

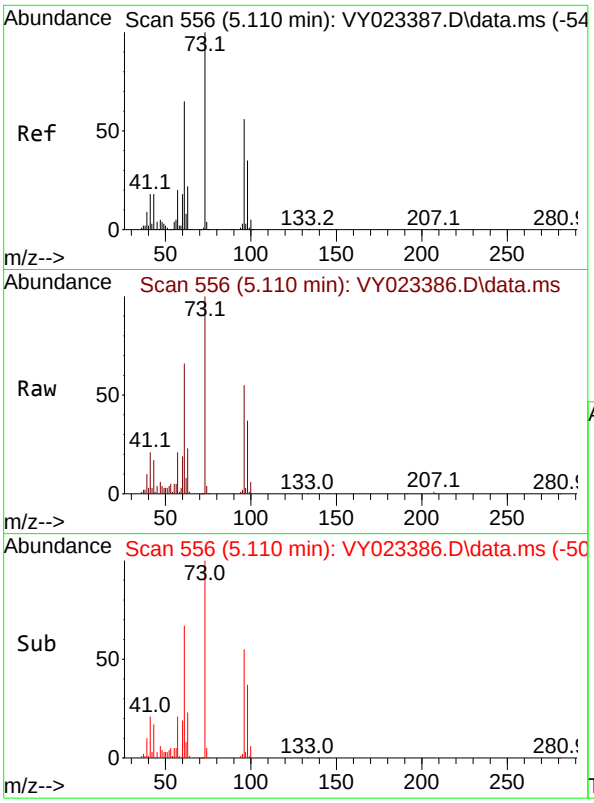


#20
Methylene Chloride
Concen: 21.801 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 84 Resp: 132229

Ion	Ratio	Lower	Upper
84	100		
49	104.2	80.2	120.4
51	31.7	25.9	38.9
86	63.9	50.6	75.8

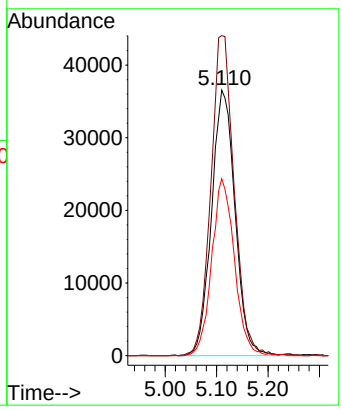




#21
trans-1,2-Dichloroethene
Concen: 19.512 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 96 Resp: 11641

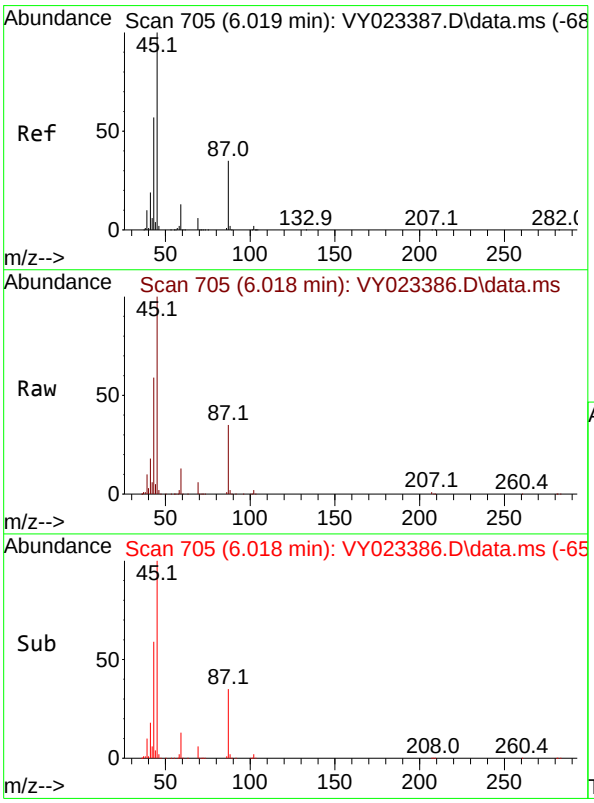
Ion	Ratio	Lower	Upper
96	100		
61	120.5	92.7	139.1
98	66.7	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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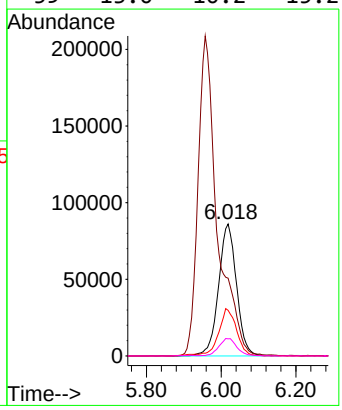
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

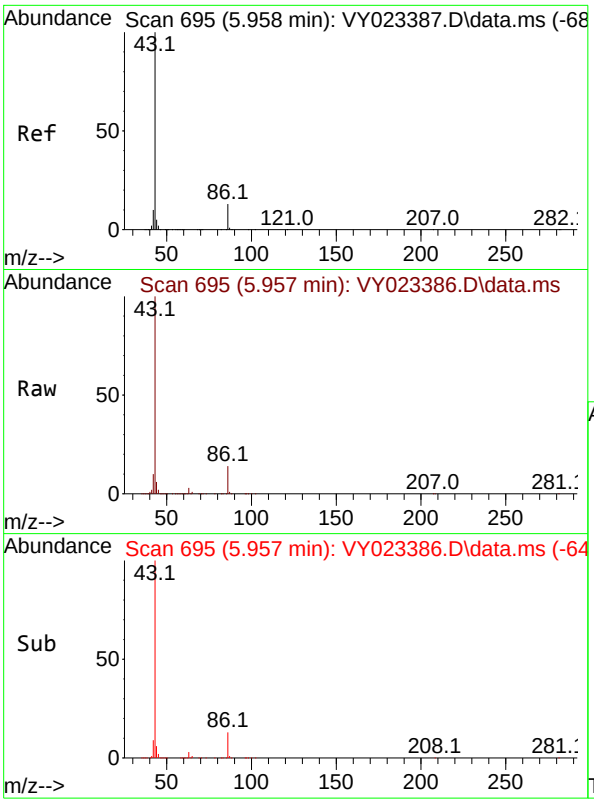


#22
Diisopropyl ether
Concen: 19.366 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 45 Resp: 288429

Ion	Ratio	Lower	Upper
45	100		
43	58.8	45.6	68.4
87	34.5	28.1	42.1
59	13.0	10.2	15.2

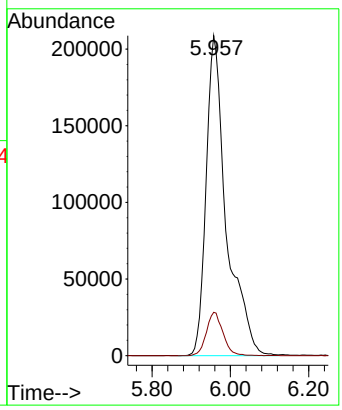




#23
Vinyl Acetate
Concen: 91.373 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 74804

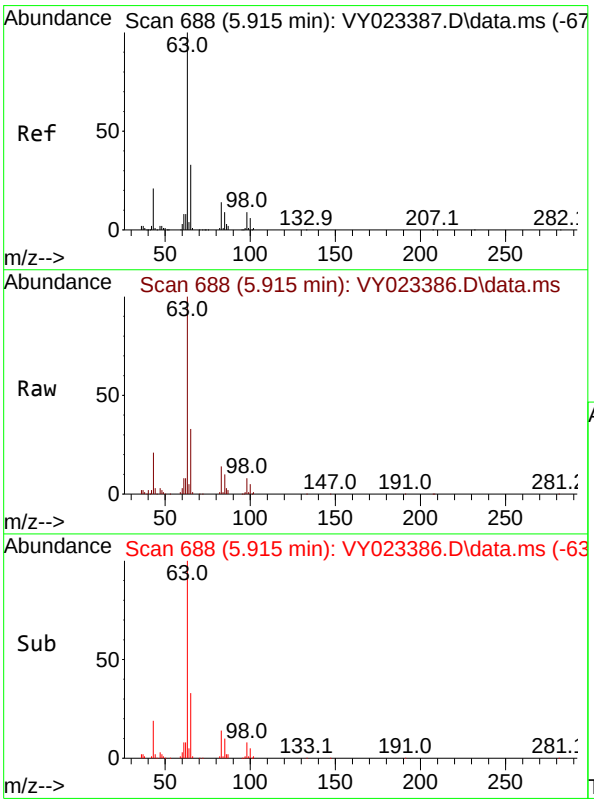
Ion	Ratio	Lower	Upper
43	100		
86	13.5	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

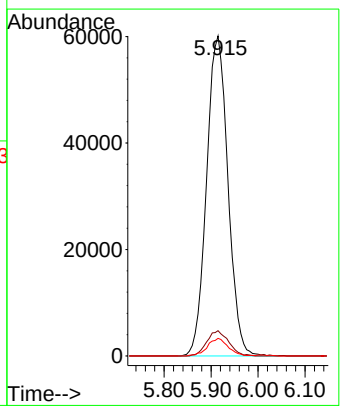
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

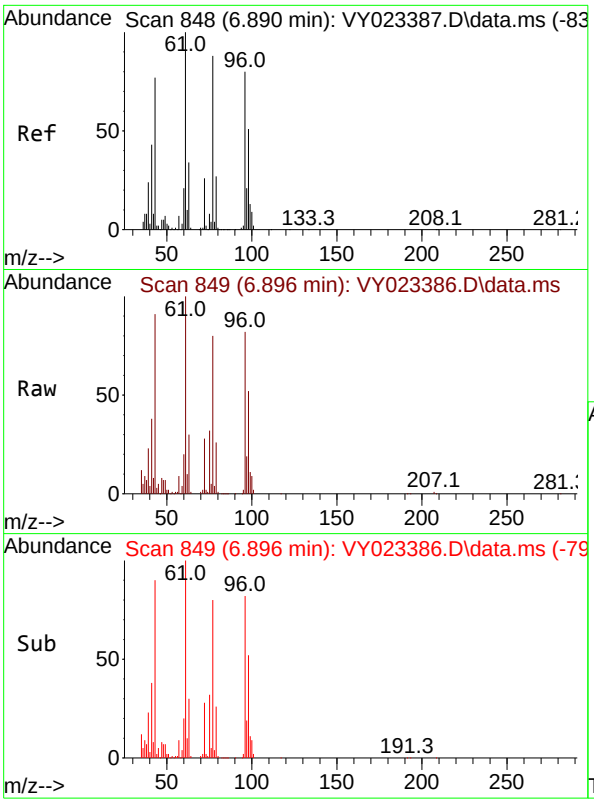


#24
1,1-Dichloroethane
Concen: 19.354 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 63 Resp: 190012

Ion	Ratio	Lower	Upper
63	100		
98	7.9	4.3	13.1
100	5.5	2.8	8.4





#25
2-Butanone
Concen: 95.593 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

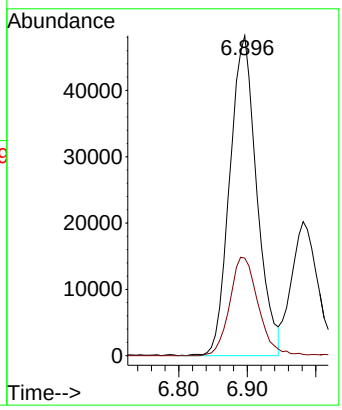
Tgt Ion: 43 Resp: 13215

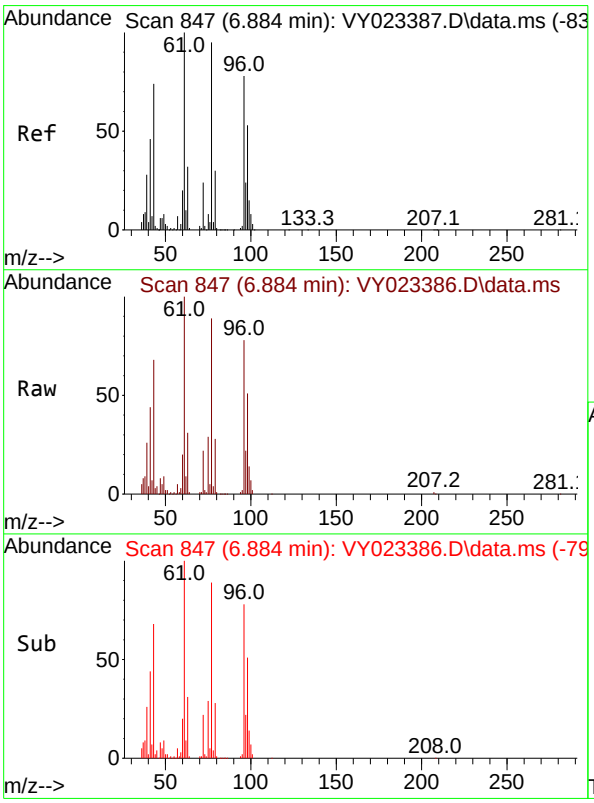
Ion	Ratio	Lower	Upper
43	100		
72	30.5	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

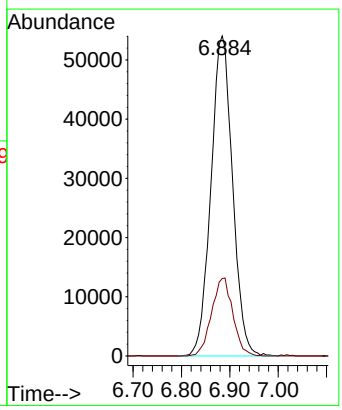


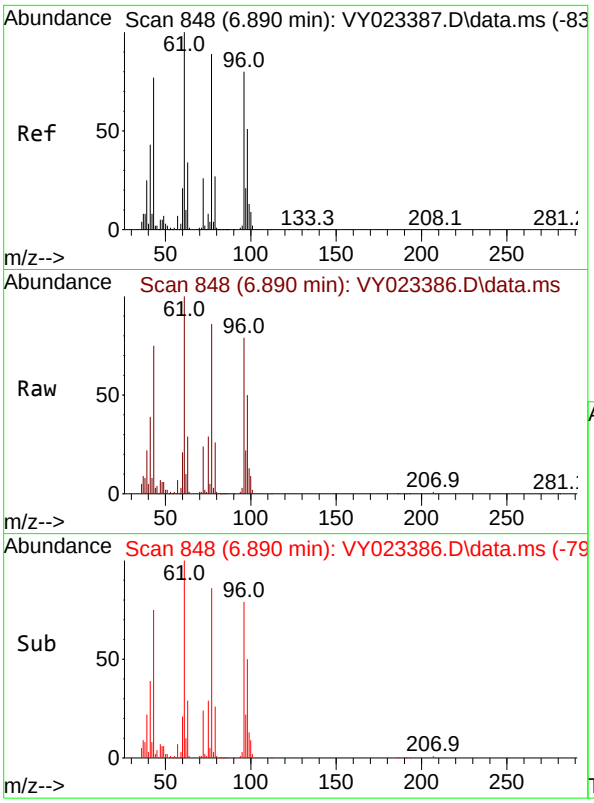


#26
2,2-Dichloropropane
Concen: 19.247 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 77 Resp: 167903

Ion	Ratio	Lower	Upper
77	100		
97	23.9	12.1	36.3





#27
cis-1,2-Dichloroethene
Concen: 19.747 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

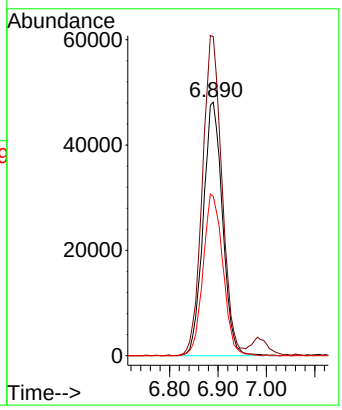
Tgt Ion: 96 Resp: 13363

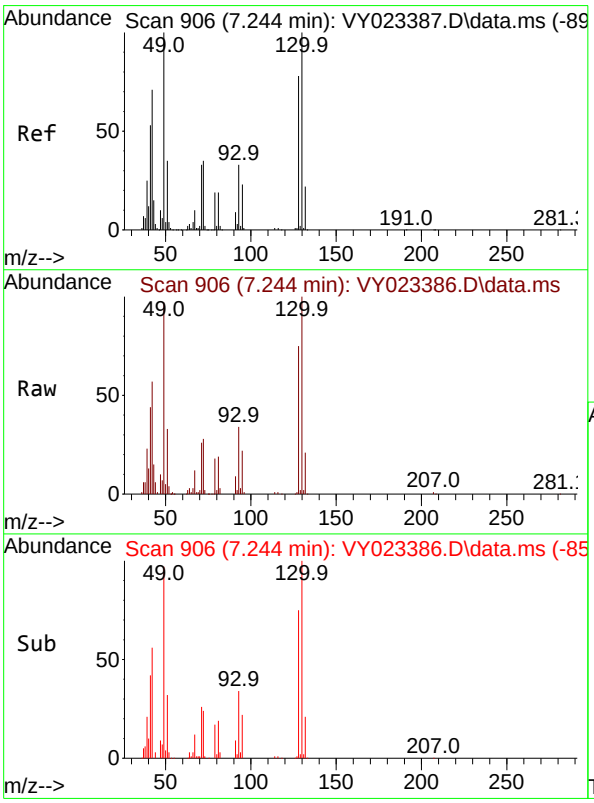
Ion	Ratio	Lower	Upper
96	100		
61	128.1	0.0	258.2
98	65.3	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

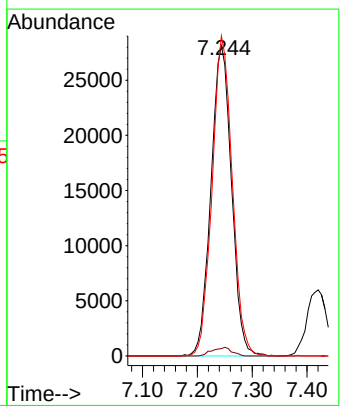


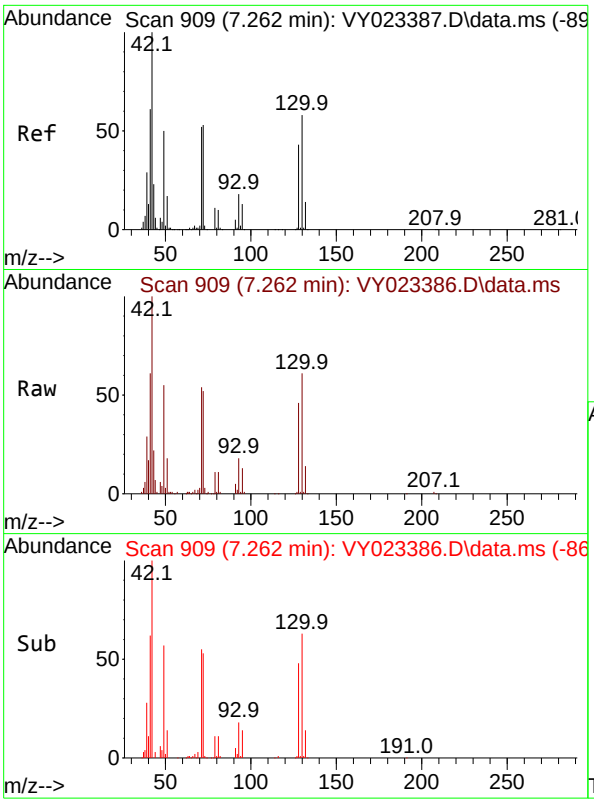


#28
Bromochloromethane
Concen: 19.273 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 49 Resp: 73407

Ion	Ratio	Lower	Upper
49	100		
129	2.7	0.0	5.6
130	100.8	81.9	122.9

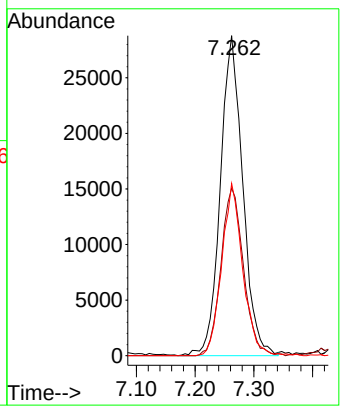




#29
Tetrahydrofuran
Concen: 93.229 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 42 Resp: 7650

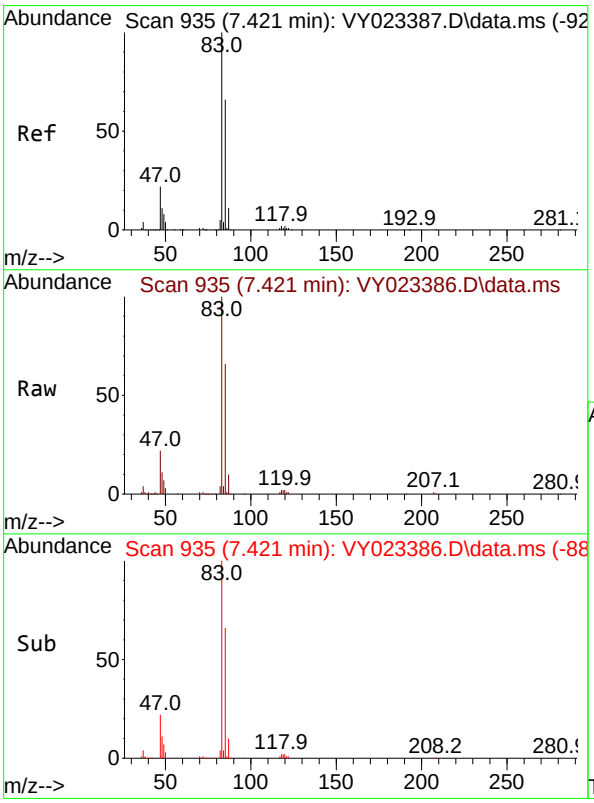
Ion	Ratio	Lower	Upper
42	100		
72	52.7	43.0	64.6
71	50.6	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

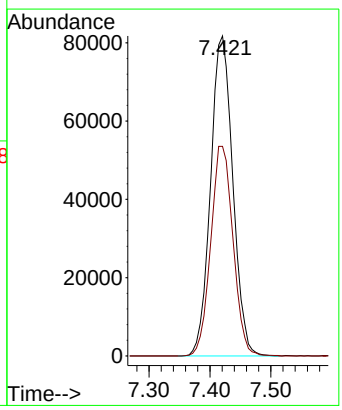
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

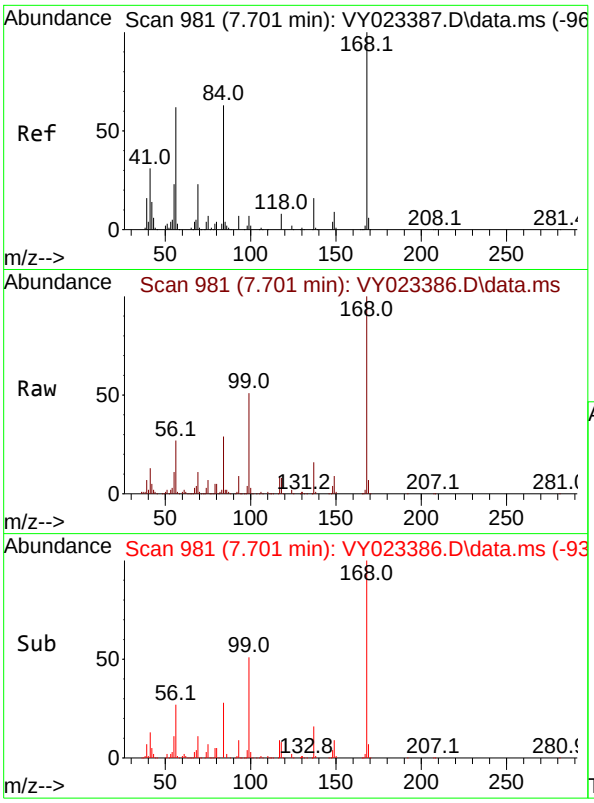


#30
Chloroform
Concen: 19.562 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 83 Resp: 207096

Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.5	78.7

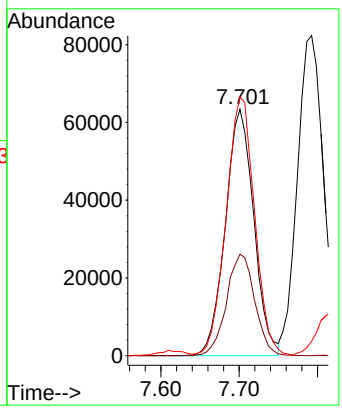




#31
Cyclohexane
Concen: 18.472 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 56 Resp: 16015

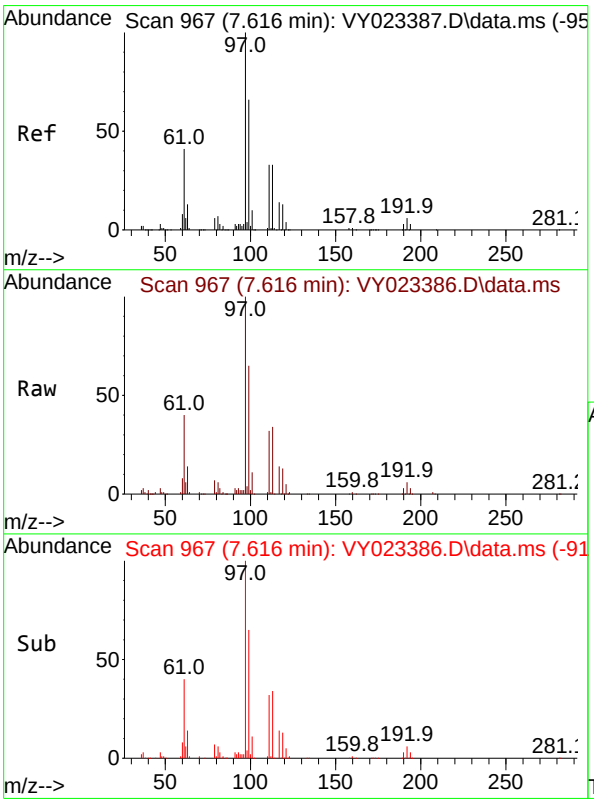
Ion	Ratio	Lower	Upper
56	100		
69	41.2	30.0	45.0
84	103.3	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

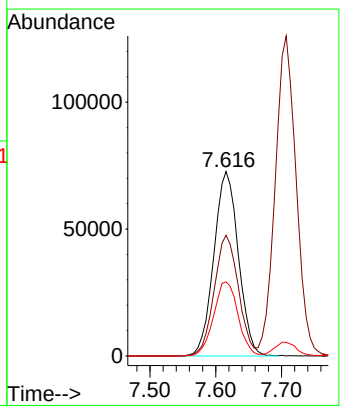
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

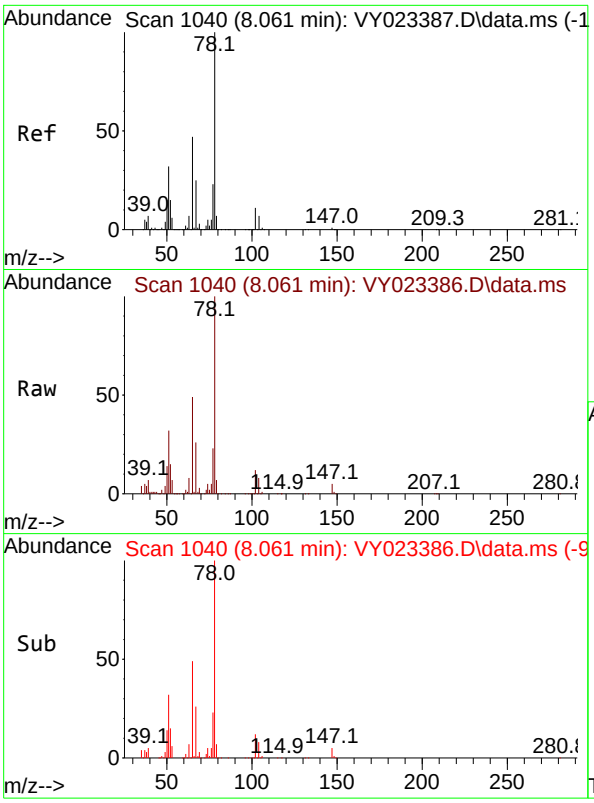


#32
1,1,1-Trichloroethane
Concen: 19.873 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 97 Resp: 188861

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.4	77.2
61	40.1	31.9	47.9

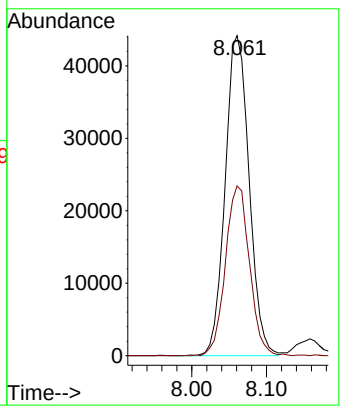




#33
1,2-Dichloroethane-d4
Concen: 19.798 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 65 Resp: 9848

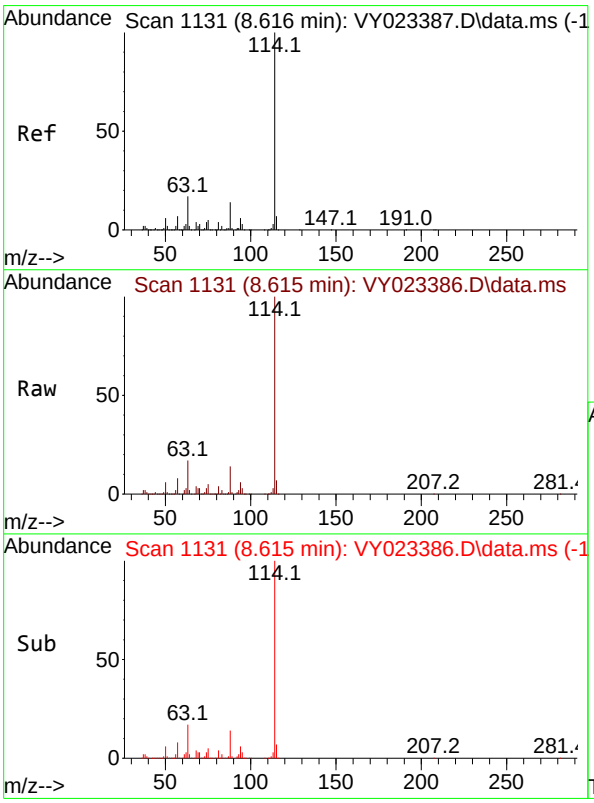
Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

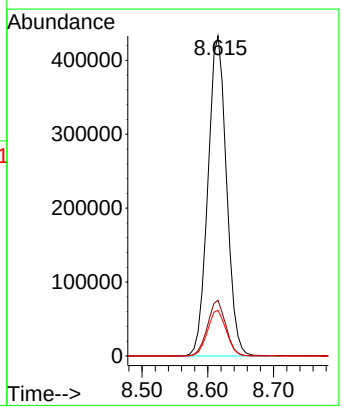
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

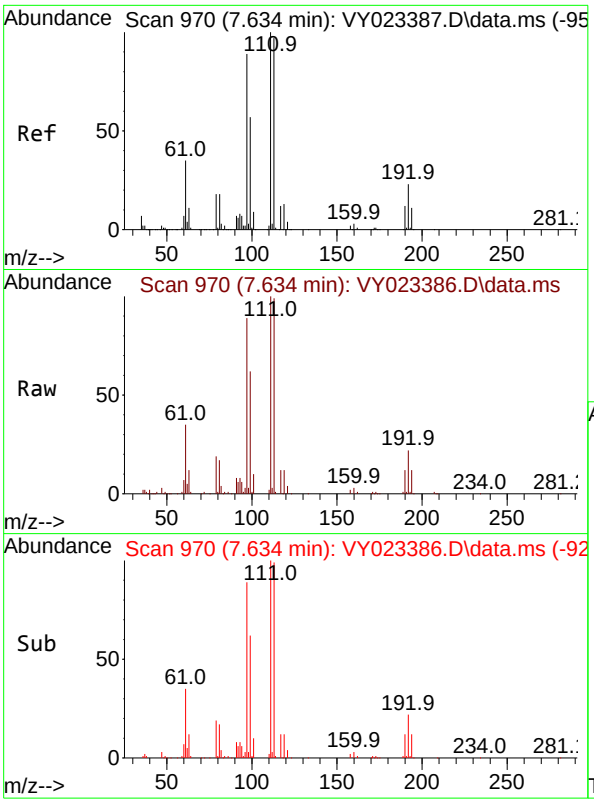


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:114 Resp: 851961

Ion	Ratio	Lower	Upper
114	100		
63	17.4	0.0	34.2
88	14.3	0.0	28.4

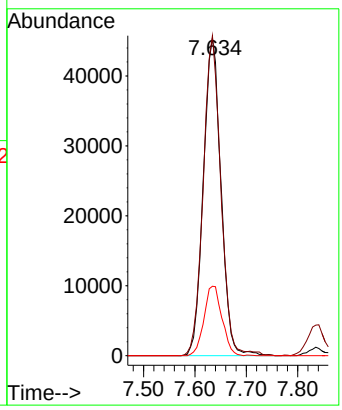




#35
Dibromofluoromethane
Concen: 20.895 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:113 Resp: 10803

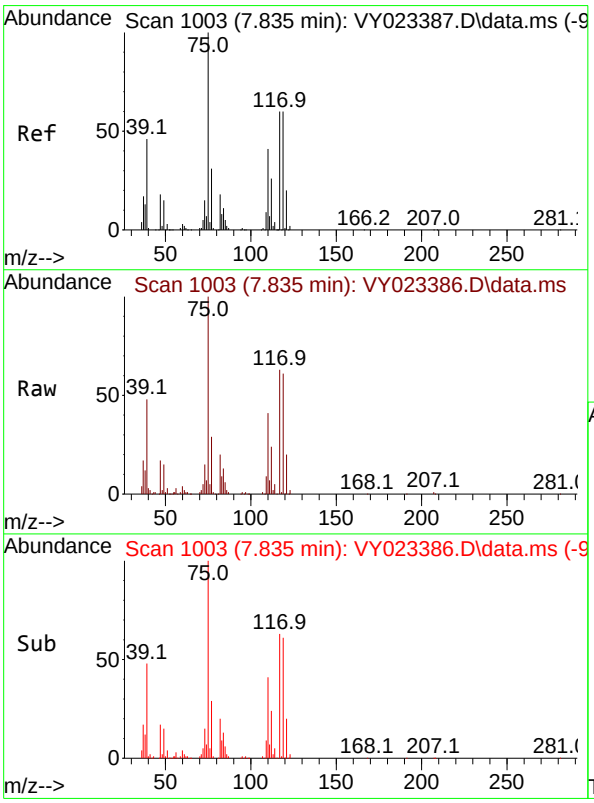
Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.8	122.6
192	22.3	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

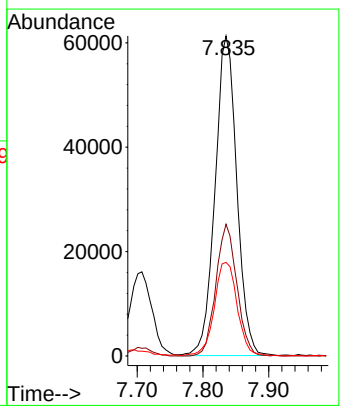
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

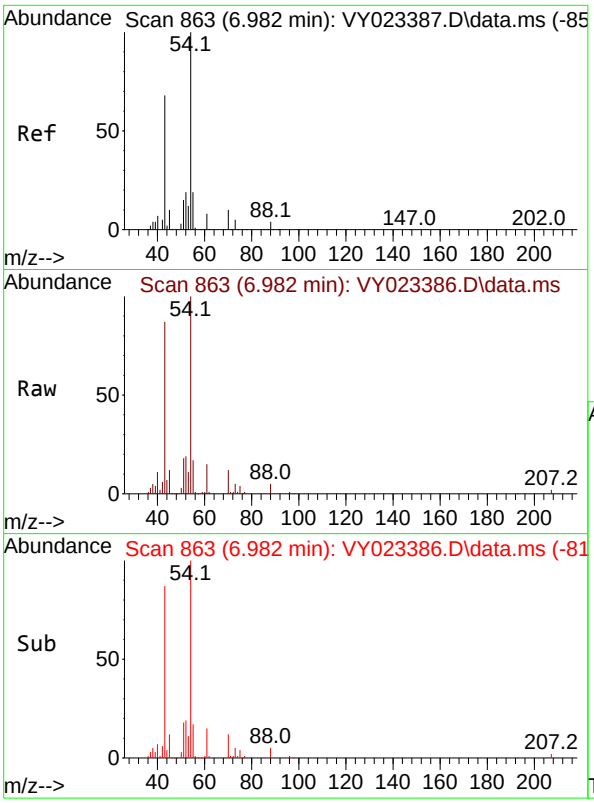


#36
1,1-Dichloropropene
Concen: 19.317 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 140912

Ion	Ratio	Lower	Upper
75	100		
110	39.7	19.9	59.7
77	31.0	25.0	37.6





#37
Ethyl Acetate
Concen: 19.315 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

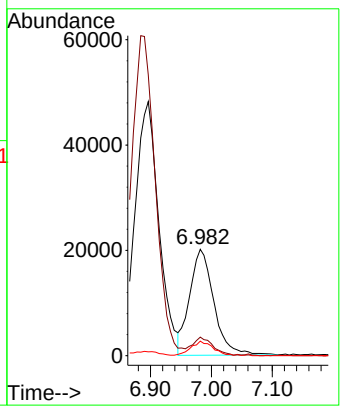
Tgt Ion: 43 Resp: 5570

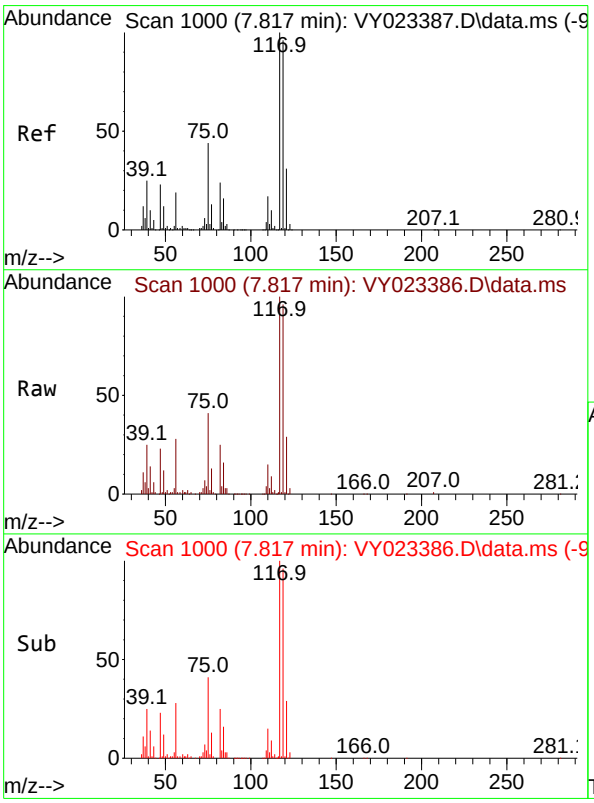
Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.8	17.8
70	12.7	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

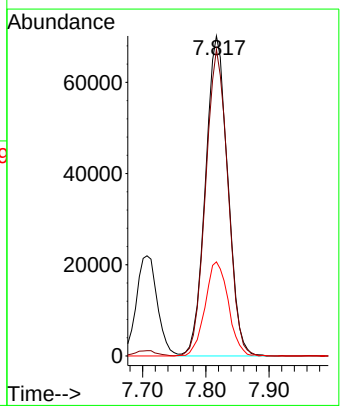


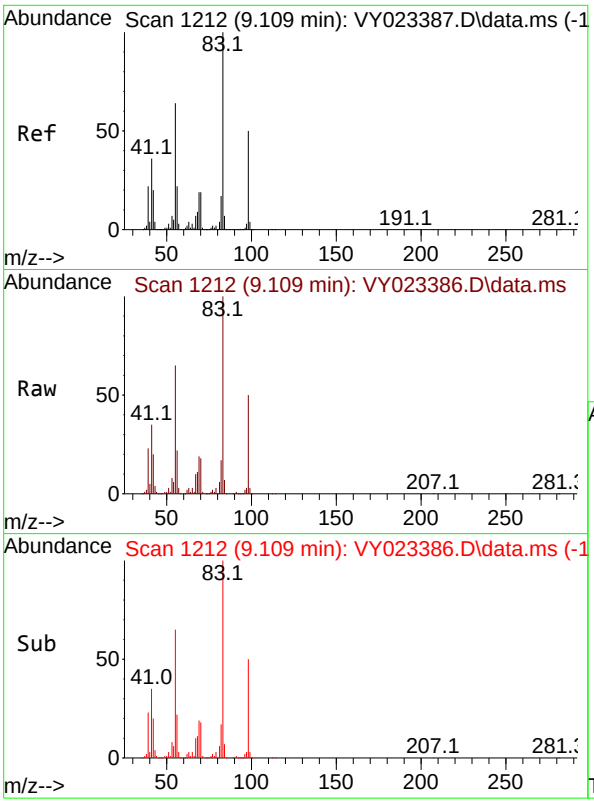


#38
Carbon Tetrachloride
Concen: 20.289 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:117 Resp: 171925

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.8	115.2
121	29.4	24.5	36.7

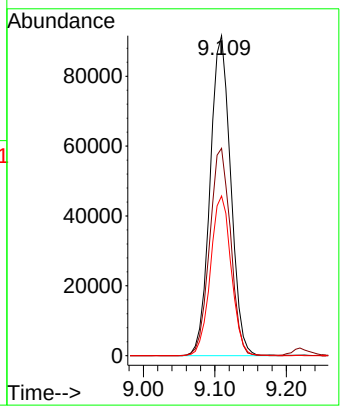




#39
Methylcyclohexane
Concen: 19.576 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 83 Resp: 18283

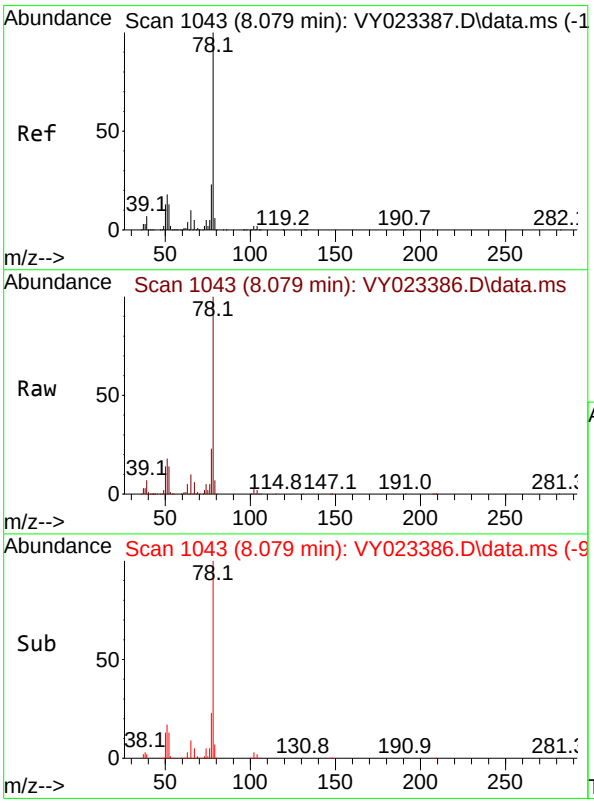
Ion	Ratio	Lower	Upper
83	100		
55	64.8	51.4	77.2
98	49.9	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

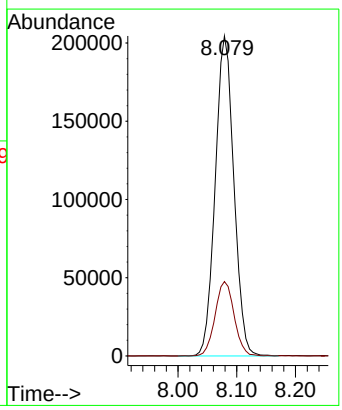
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

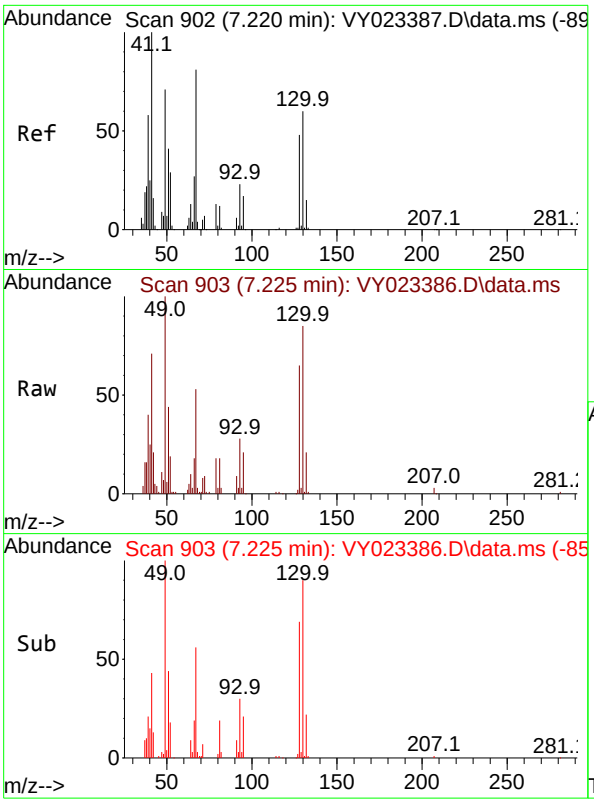


#40
Benzene
Concen: 19.809 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 78 Resp: 450471

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.3	27.5

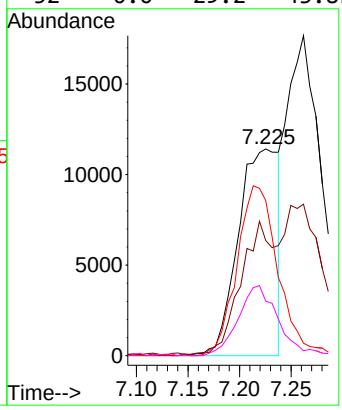




#41
Methacrylonitrile
Concen: 20.783 ug/l m
RT: 7.225 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 41 Resp: 3112

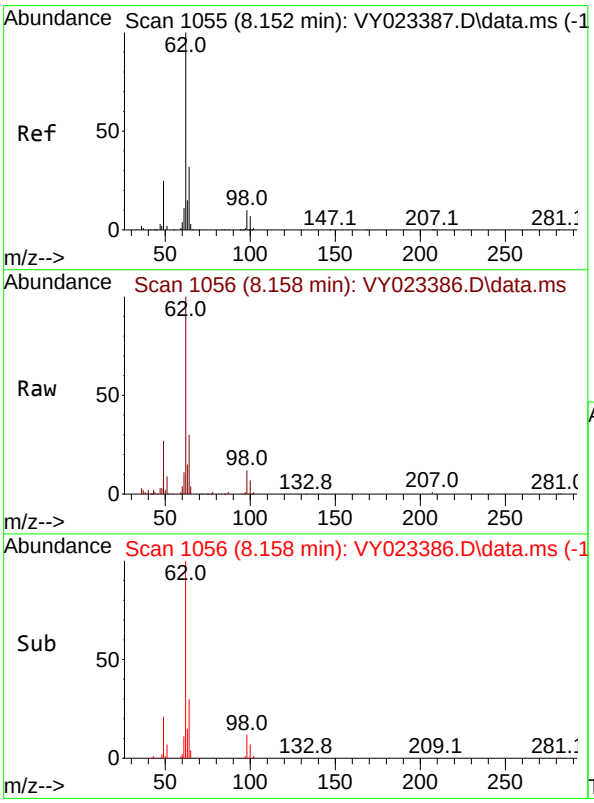
Ion	Ratio	Lower	Upper
41	100		
39	68.6	52.2	78.4
67	0.0	74.9	112.3#
52	0.0	29.2	43.8#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

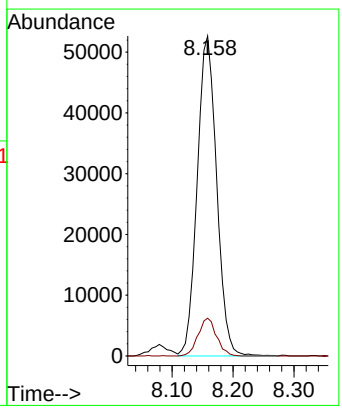
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

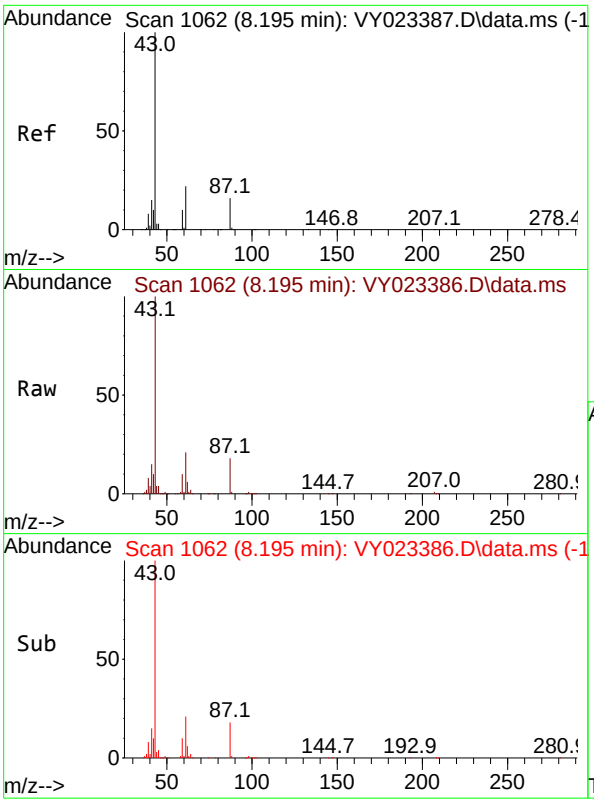


#42
1,2-Dichloroethane
Concen: 20.206 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 62 Resp: 116941

Ion	Ratio	Lower	Upper
62	100		
98	11.2	0.0	21.6

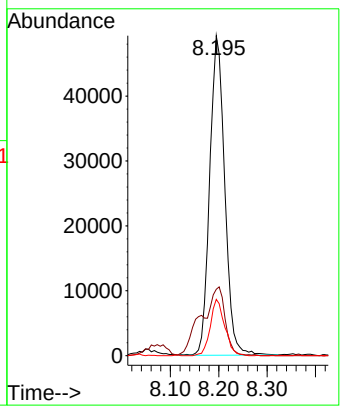




#43
Isopropyl Acetate
Concen: 19.002 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 10659

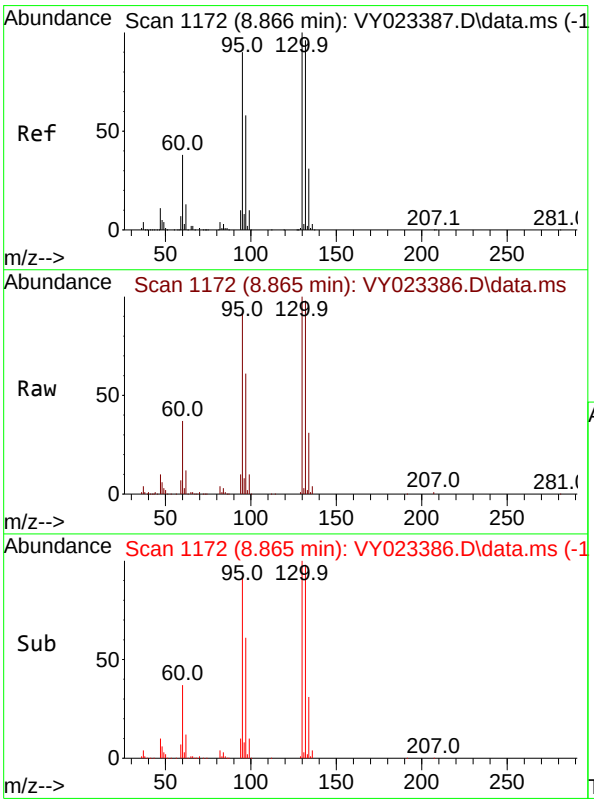
Ion	Ratio	Lower	Upper
43	100		
61	33.1	18.1	27.1
87	16.9	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

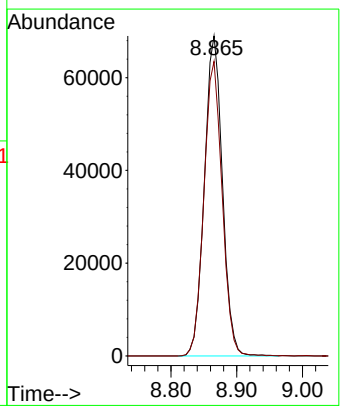
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

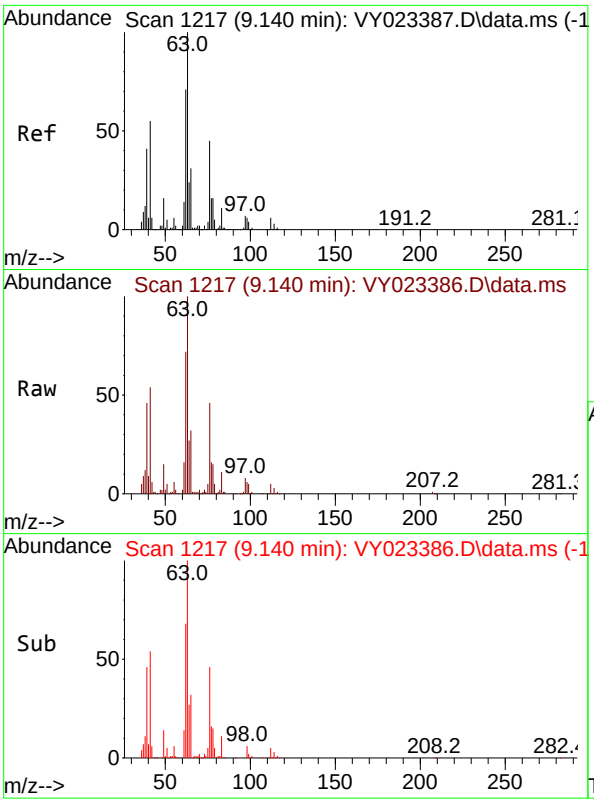


#44
Trichloroethene
Concen: 20.598 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:130 Resp: 131459

Ion	Ratio	Lower	Upper
130	100		
95	92.0	0.0	180.6

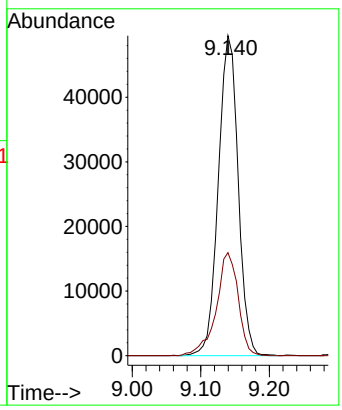




#45
1,2-Dichloropropane
Concen: 19.417 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 63 Resp: 9936

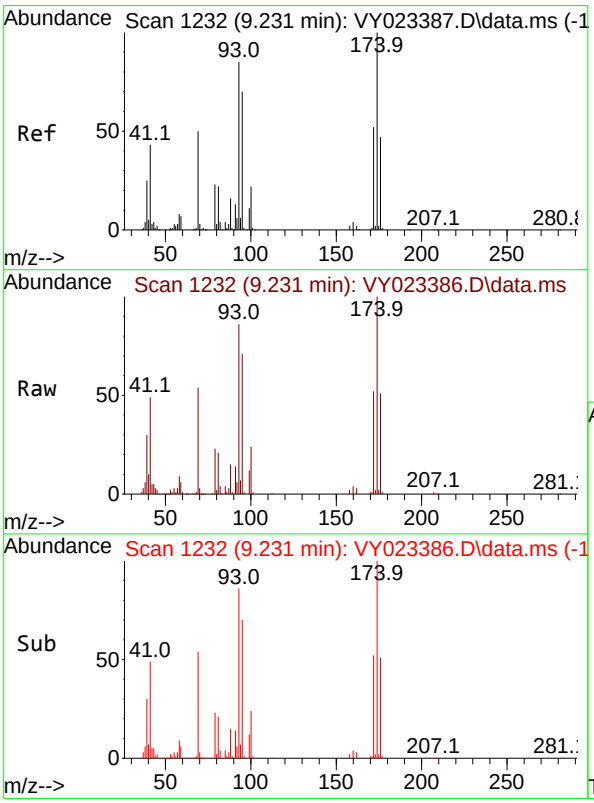
Ion	Ratio	Lower	Upper
63	100		
65	32.2	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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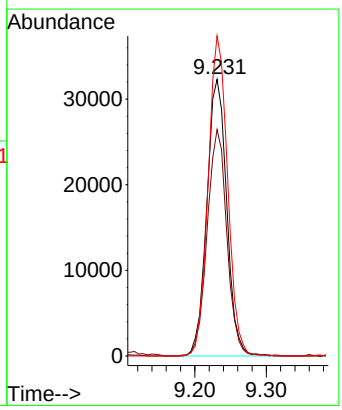
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

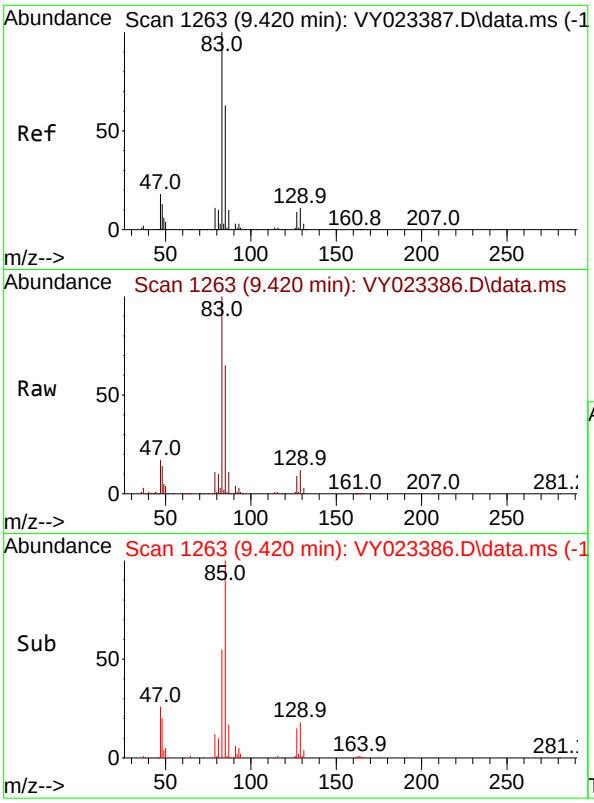


#46
Dibromomethane
Concen: 19.896 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 93 Resp: 62277

Ion	Ratio	Lower	Upper
93	100		
95	81.3	65.4	98.0
174	113.6	92.9	139.3

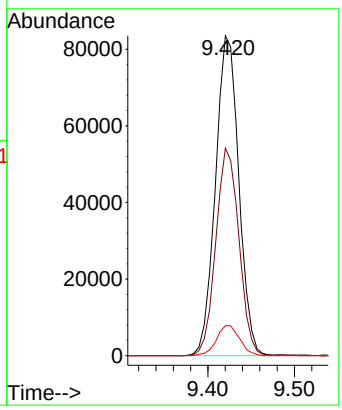




#47
Bromodichloromethane
Concen: 19.854 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 83 Resp: 15642

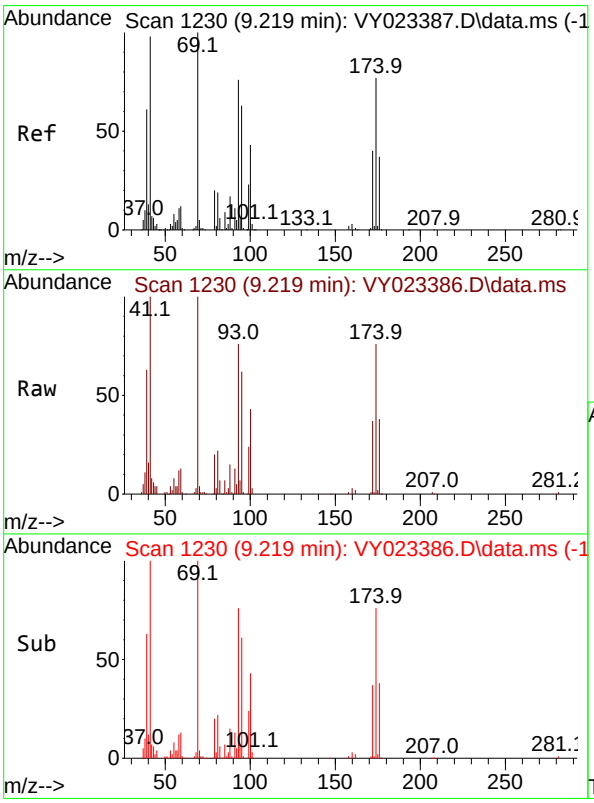
Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.8	76.2
127	9.4	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

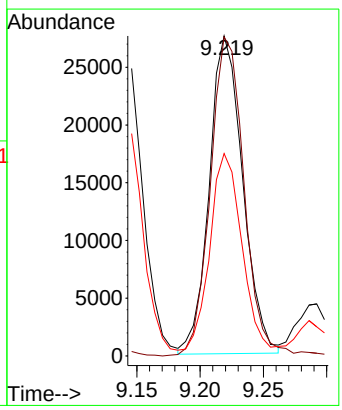
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

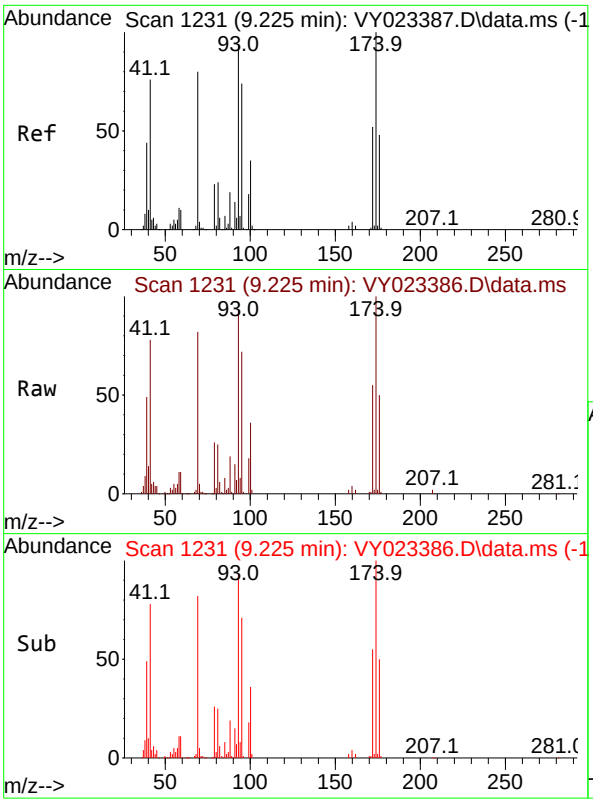


#48
Methyl methacrylate
Concen: 19.352 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 41 Resp: 50661

Ion	Ratio	Lower	Upper
41	100		
69	102.0	81.0	121.4
39	58.8	48.2	72.4

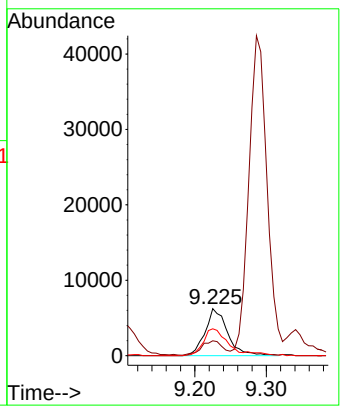




#49
1,4-Dioxane
Concen: 420.712 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 88 Resp: 1363

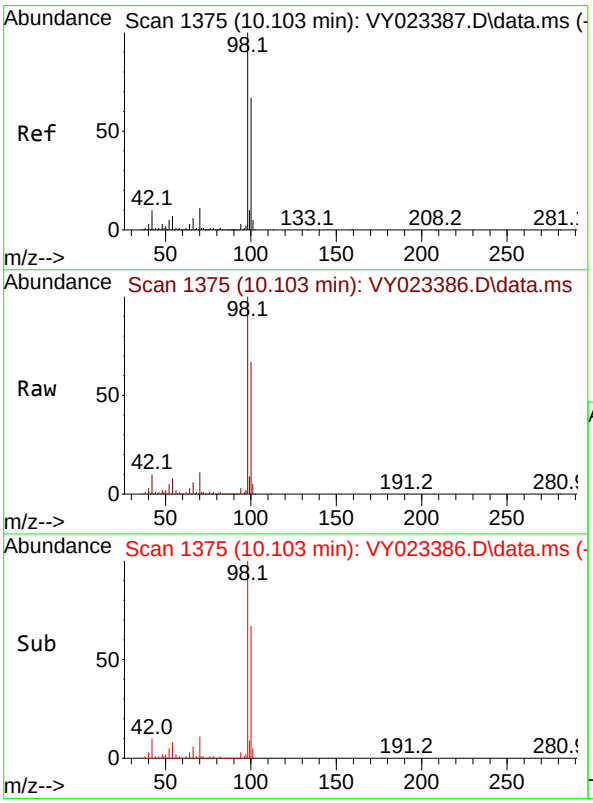
Ion	Ratio	Lower	Upper
88	100		
43	28.9	21.8	32.8
58	58.1	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

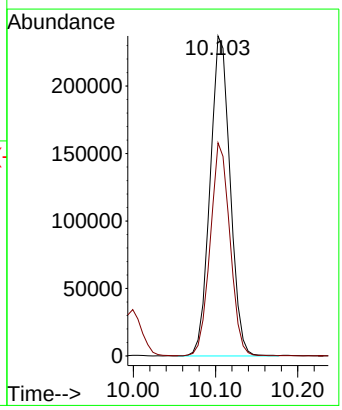
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

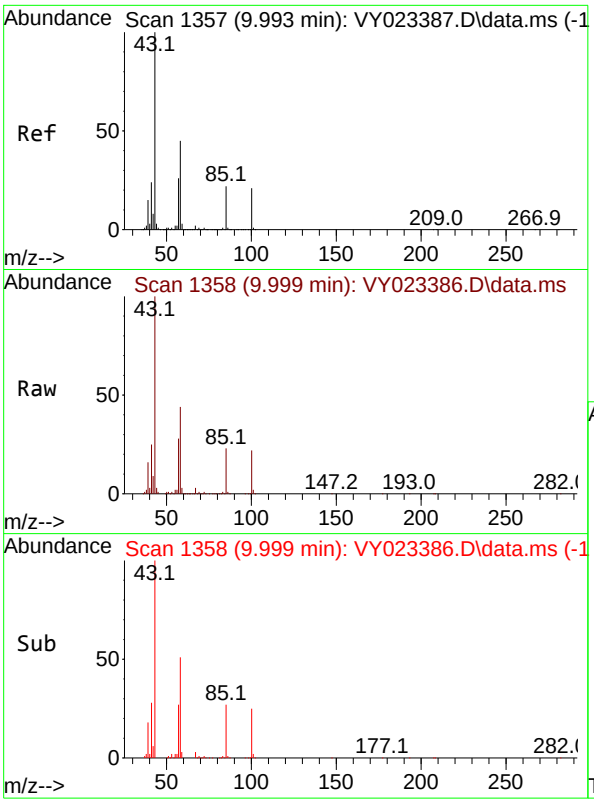


#50
Toluene-d8
Concen: 20.568 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 98 Resp: 401067

Ion	Ratio	Lower	Upper
98	100		
100	65.3	53.0	79.4

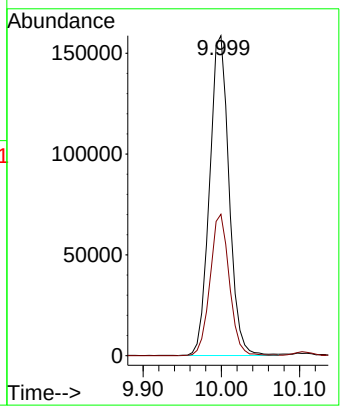




#51
4-Methyl-2-Pentanone
Concen: 95.378 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 27405

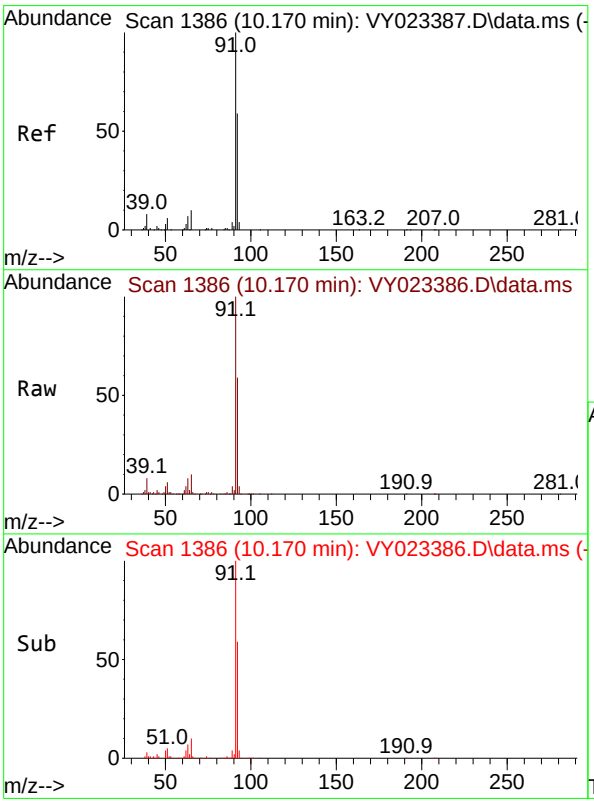
Ion	Ratio	Lower	Upper
43	100		
58	43.8	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

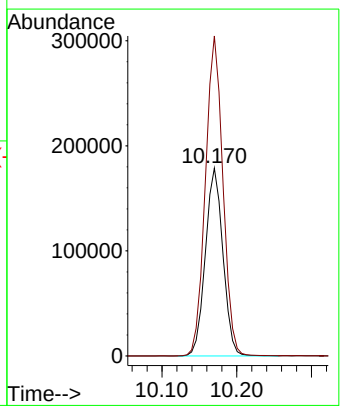
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

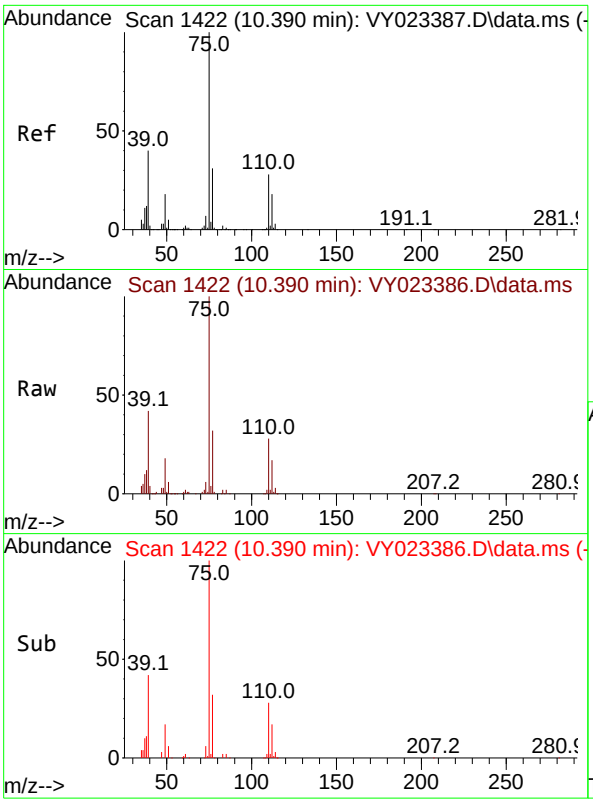


#52
Toluene
Concen: 20.191 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 92 Resp: 291453

Ion	Ratio	Lower	Upper
92	100		
91	170.0	136.4	204.6

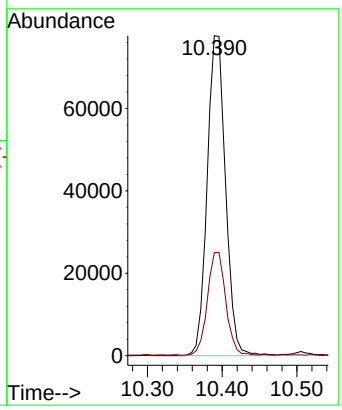




#53
t-1,3-Dichloropropene
Concen: 19.632 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 13284

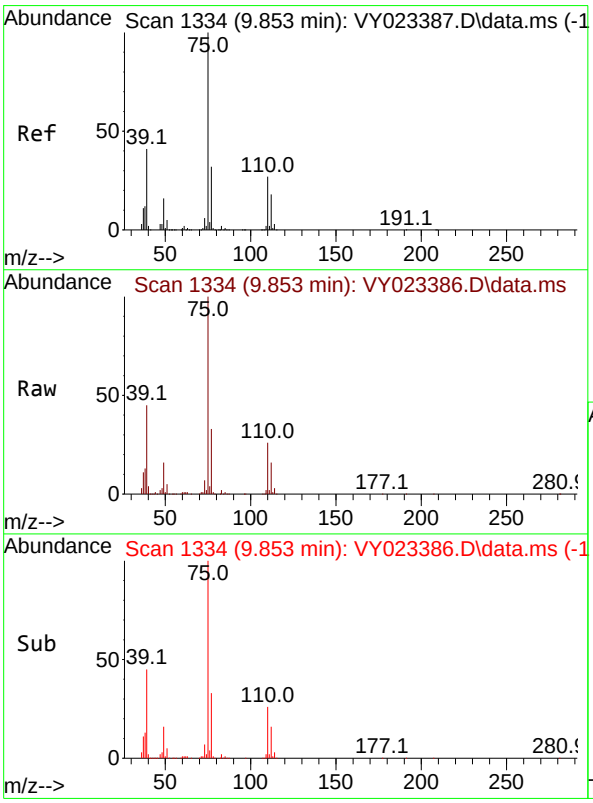
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

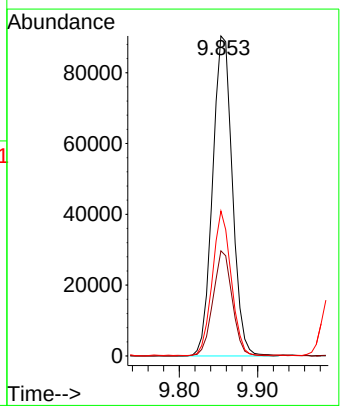
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

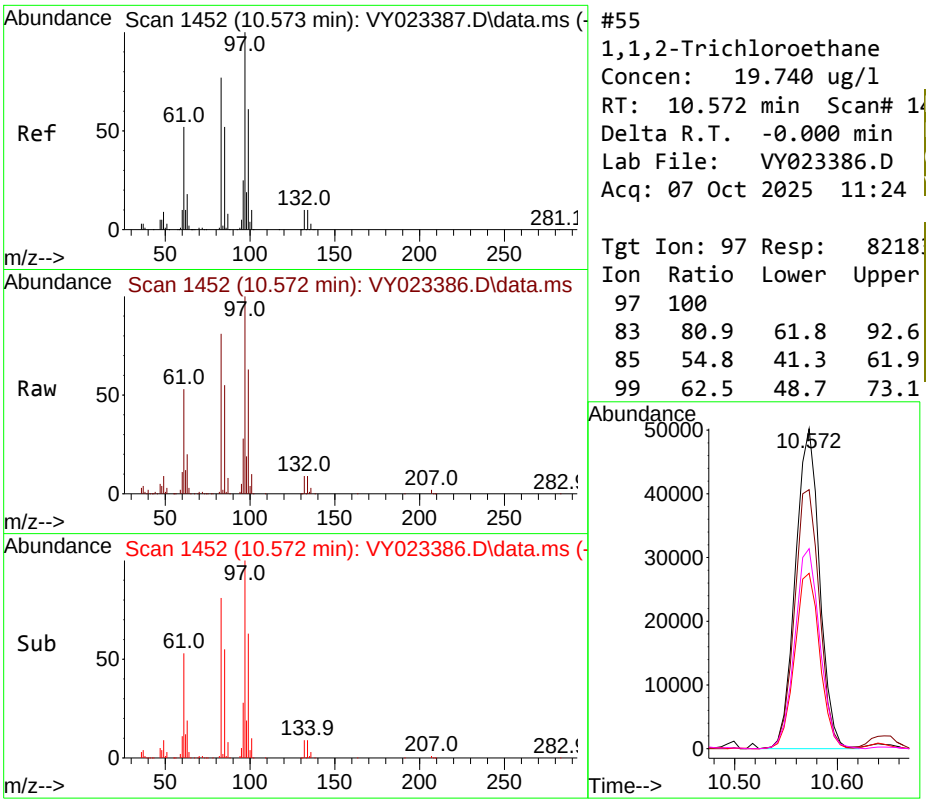


#54
cis-1,3-Dichloropropene
Concen: 19.606 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 158580

Ion	Ratio	Lower	Upper
75	100		
77	32.8	25.4	38.0
39	45.1	32.8	49.2





#55
1,1,2-Trichloroethane
Concen: 19.740 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

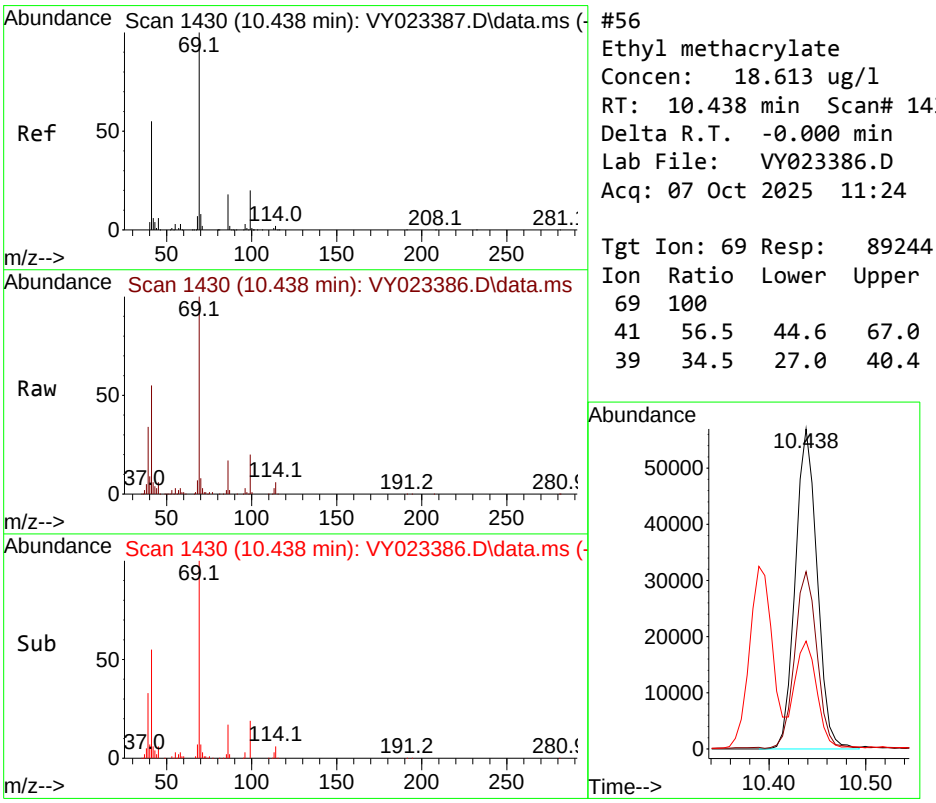
Tgt Ion: 97 Resp: 8218

Ion	Ratio	Lower	Upper
97	100		
83	80.9	61.8	92.6
85	54.8	41.3	61.9
99	62.5	48.7	73.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

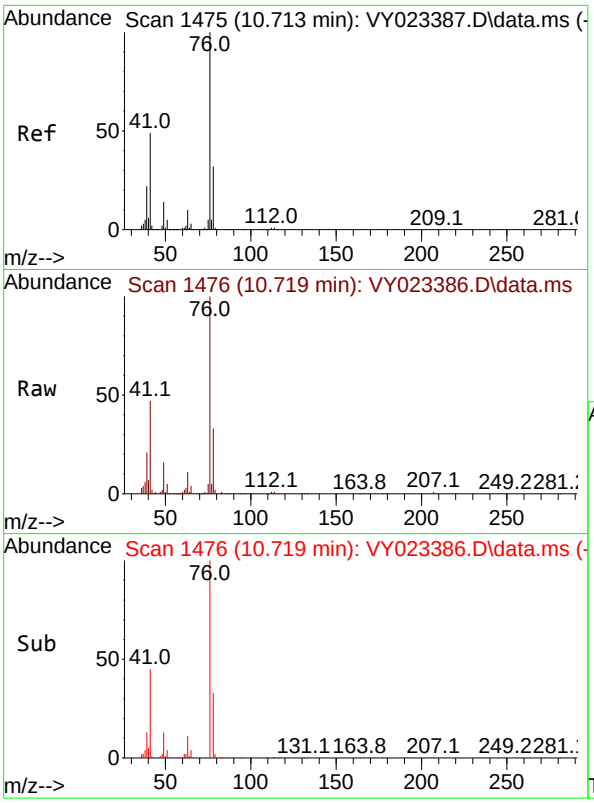
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#56
Ethyl methacrylate
Concen: 18.613 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 69 Resp: 89244

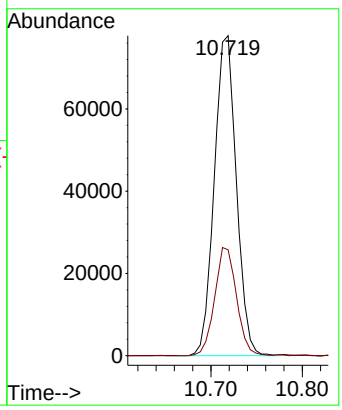
Ion	Ratio	Lower	Upper
69	100		
41	56.5	44.6	67.0
39	34.5	27.0	40.4



#57
1,3-Dichloropropane
Concen: 19.389 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 76 Resp: 13065(

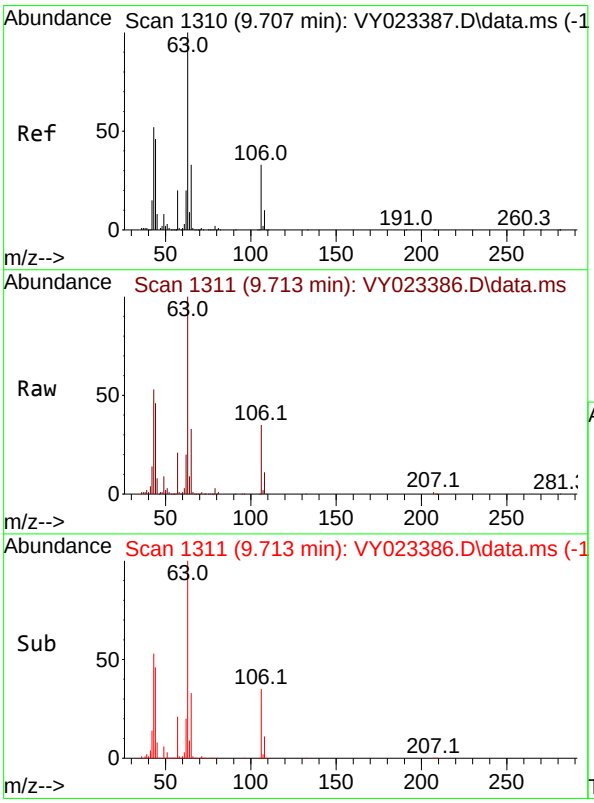
Ion	Ratio	Lower	Upper
76	100		
78	33.5	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

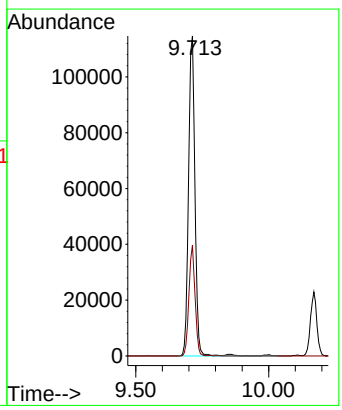
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

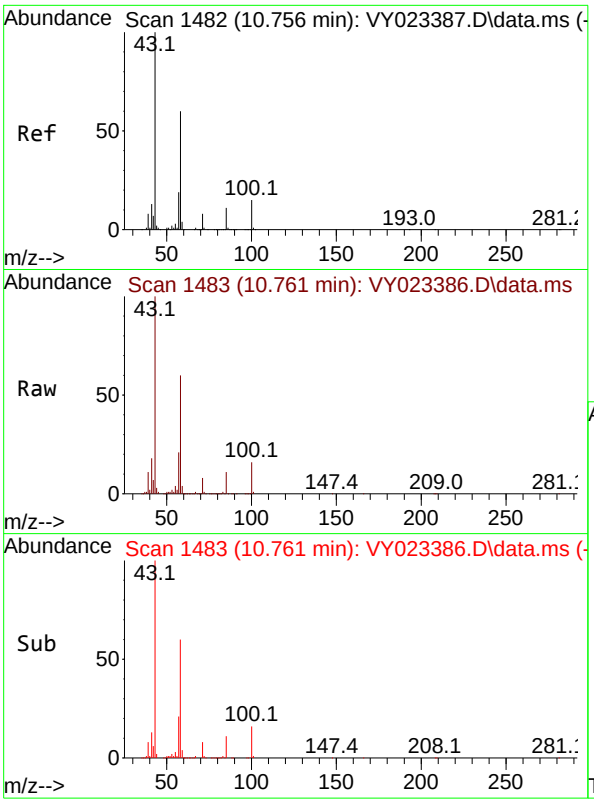


#58
2-Chloroethyl Vinyl ether
Concen: 90.982 ug/l m
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 63 Resp: 190850

Ion	Ratio	Lower	Upper
63	100		
106	32.9	26.6	39.8

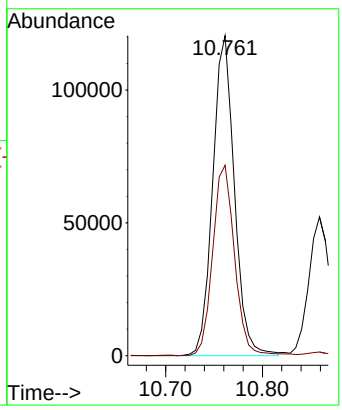




#59
2-Hexanone
Concen: 94.190 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 18738

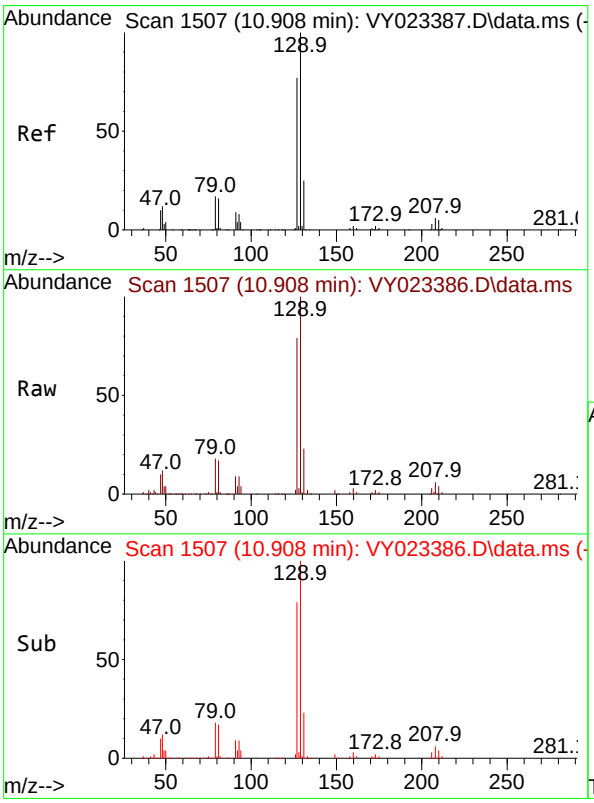
Ion	Ratio	Lower	Upper
43	100		
58	60.2	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

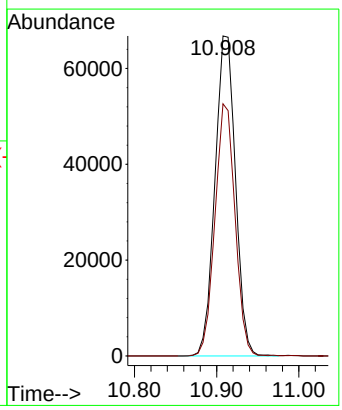
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

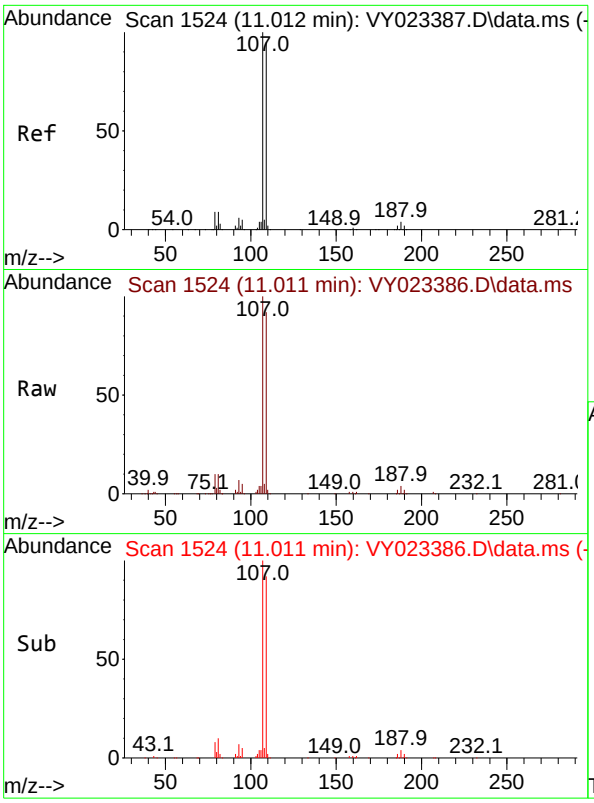


#60
Dibromochloromethane
Concen: 20.412 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:129 Resp: 115907

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.7

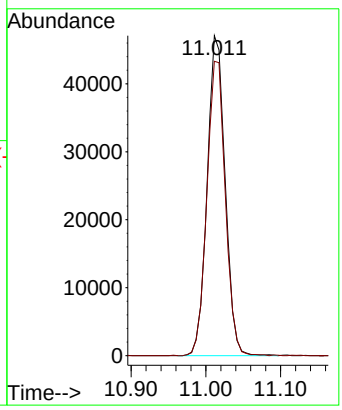




#61
1,2-Dibromoethane
Concen: 20.062 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:107 Resp: 7857

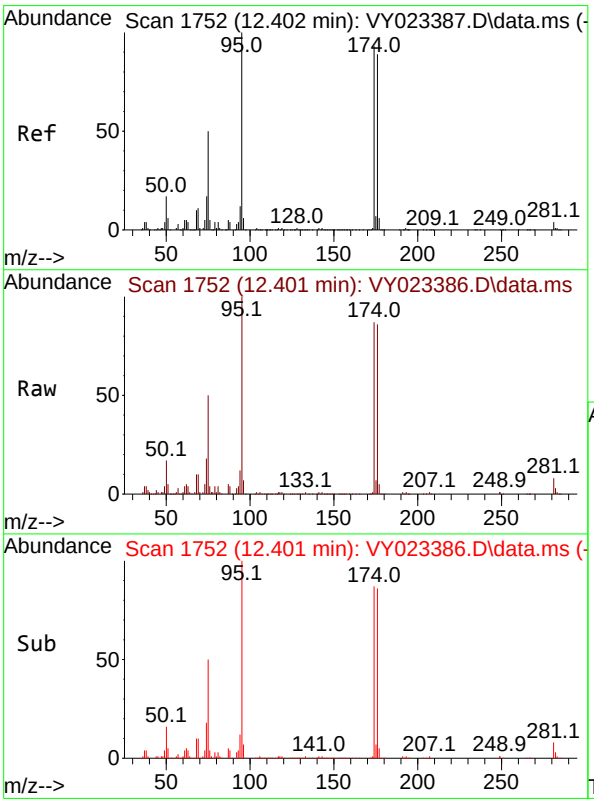
Ion	Ratio	Lower	Upper
107	100		
109	94.7	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

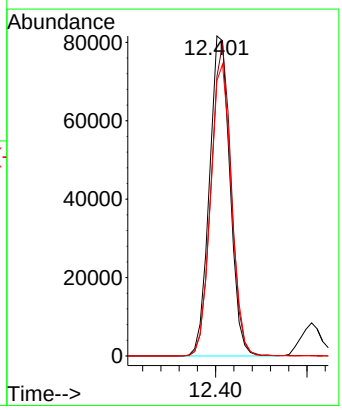
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

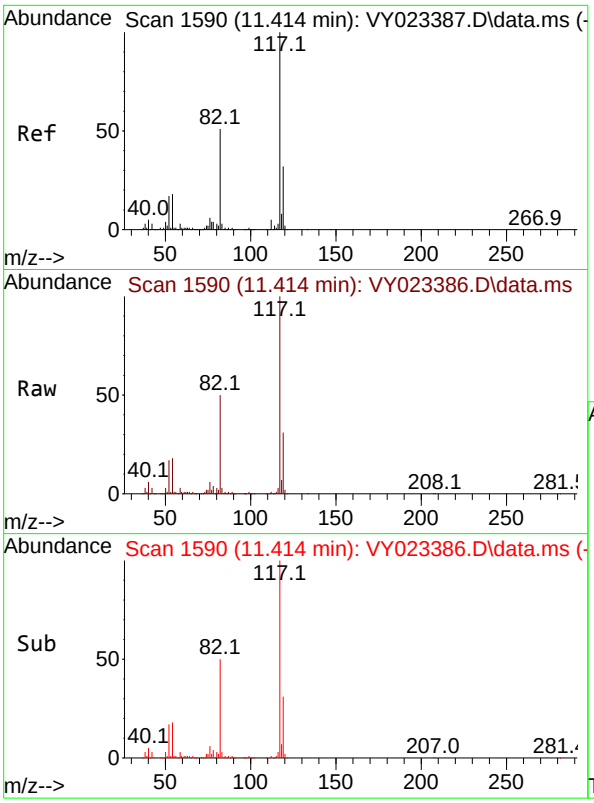


#62
4-Bromofluorobenzene
Concen: 20.680 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 95 Resp: 127216

Ion	Ratio	Lower	Upper
95	100		
174	95.8	0.0	192.8
176	92.7	0.0	187.6

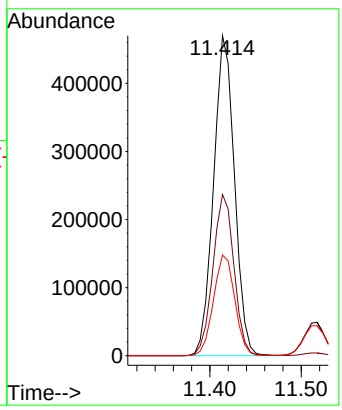




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:117 Resp: 74687

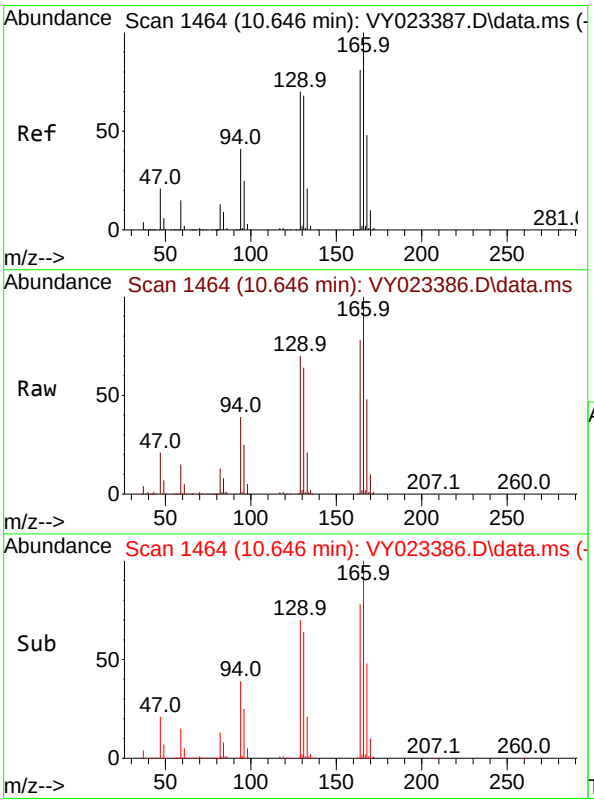
Ion	Ratio	Lower	Upper
117	100		
82	50.3	41.0	61.4
119	31.4	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

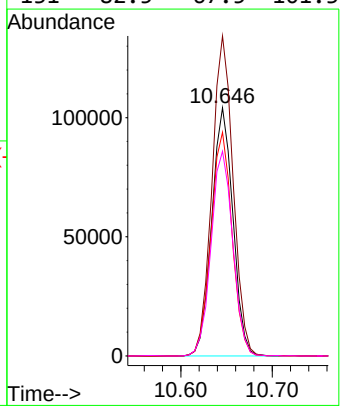
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

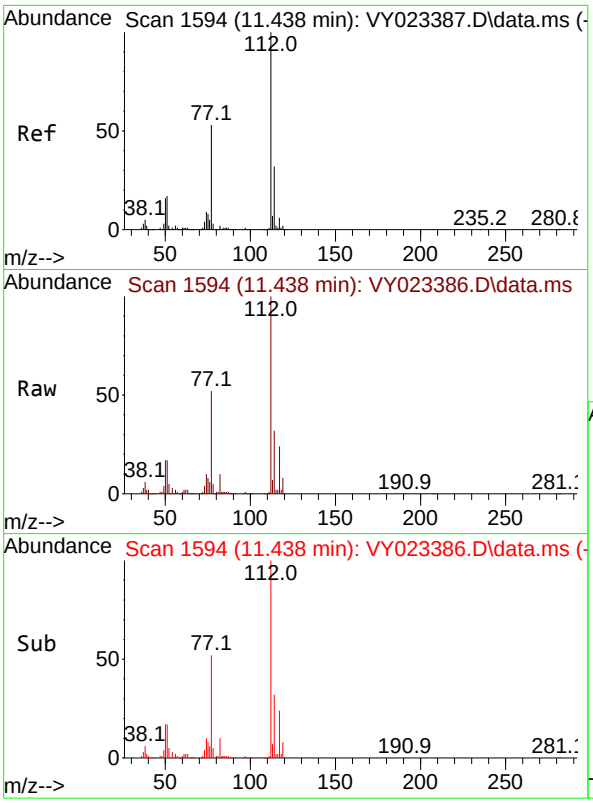


#64
Tetrachloroethene
Concen: 22.438 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:164 Resp: 167648

Ion	Ratio	Lower	Upper
164	100		
166	128.9	99.4	149.0
129	90.1	69.4	104.2
131	82.5	67.5	101.3

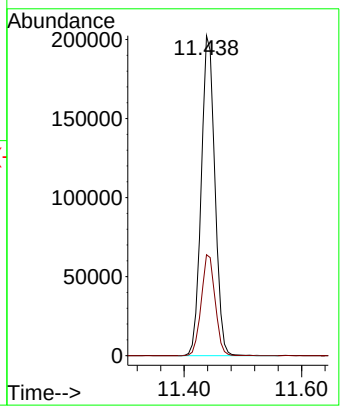




#65
Chlorobenzene
Concen: 20.109 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:112 Resp: 32636

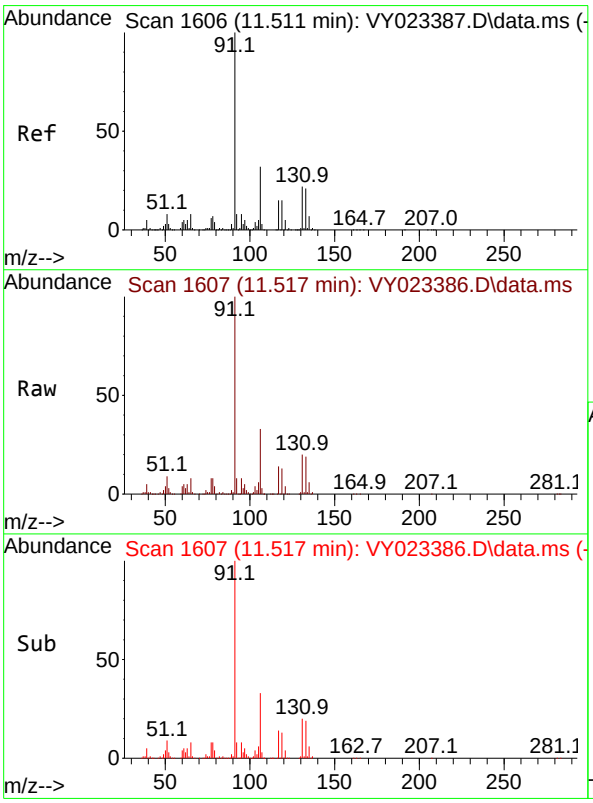
Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

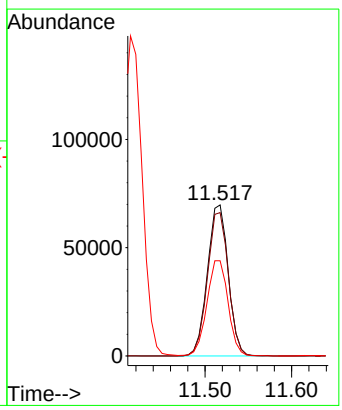
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

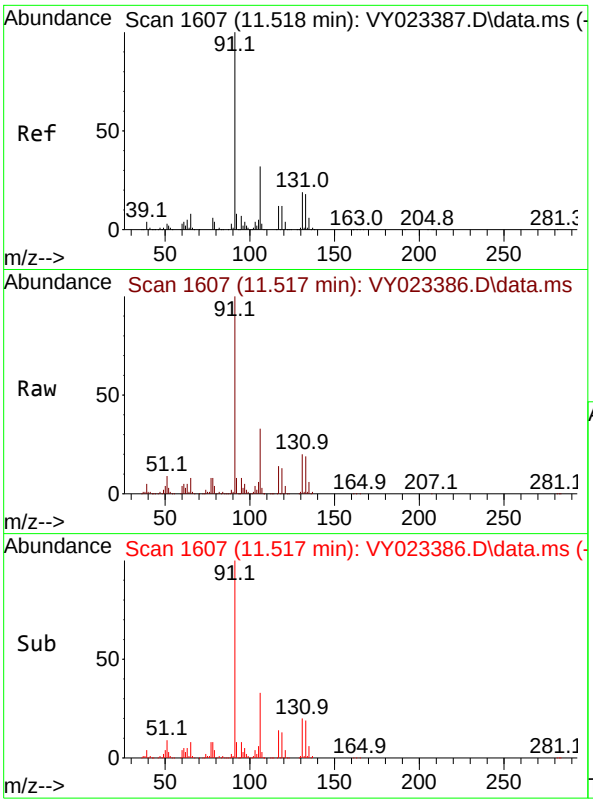


#66
1,1,1,2-Tetrachloroethane
Concen: 20.396 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:131 Resp: 116412

Ion	Ratio	Lower	Upper
131	100		
133	95.9	48.4	145.2
119	64.4	32.4	97.2

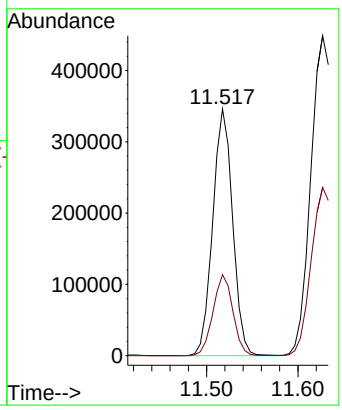




#67
Ethyl Benzene
Concen: 19.768 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 52360

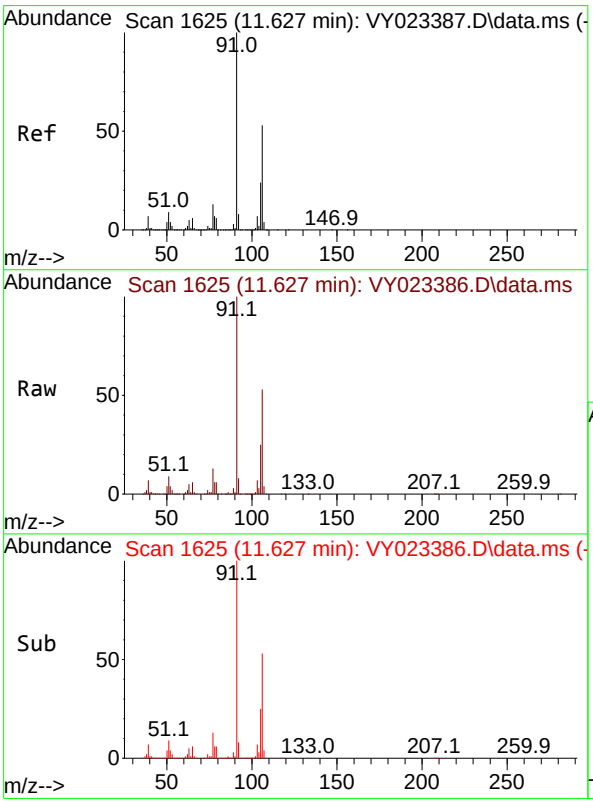
Ion	Ratio	Lower	Upper
91	100		
106	32.8	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

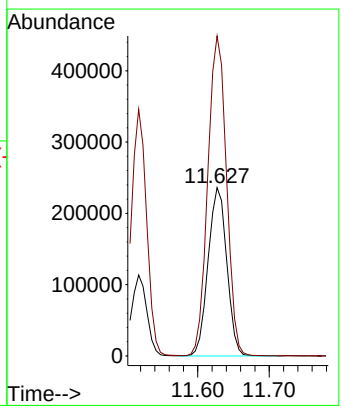
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

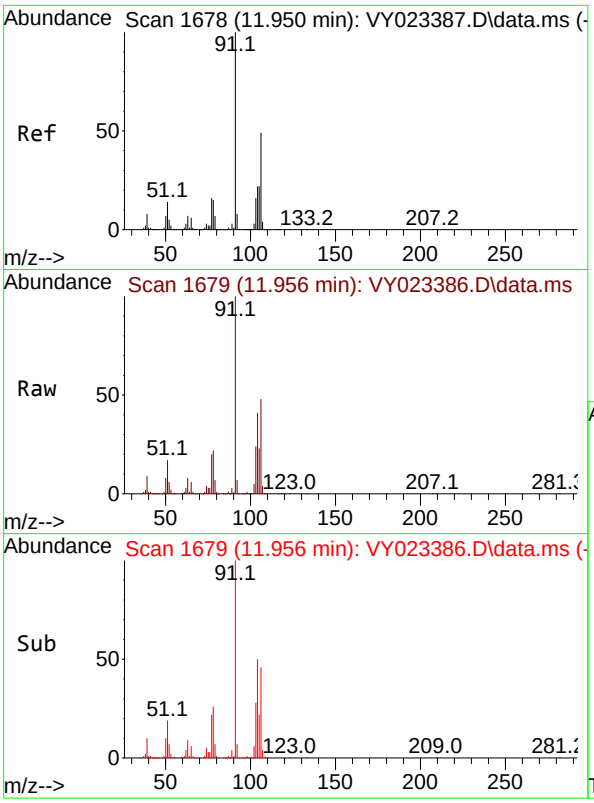


#68
m/p-Xylenes
Concen: 40.211 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:106 Resp: 426913

Ion	Ratio	Lower	Upper
106	100		
91	190.8	152.6	229.0

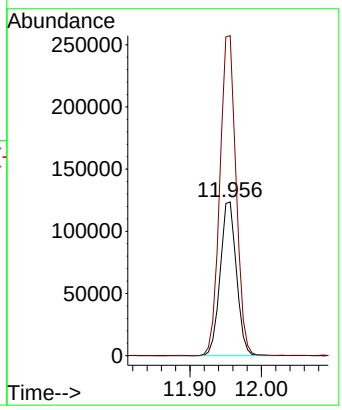




#69
o-Xylene
Concen: 19.843 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:106 Resp: 19502

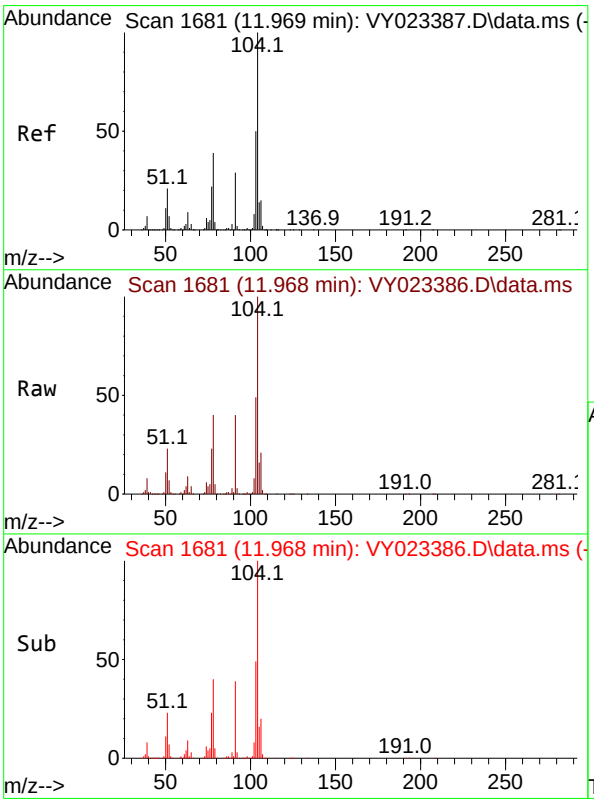
Ion	Ratio	Lower	Upper
106	100		
91	208.5	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
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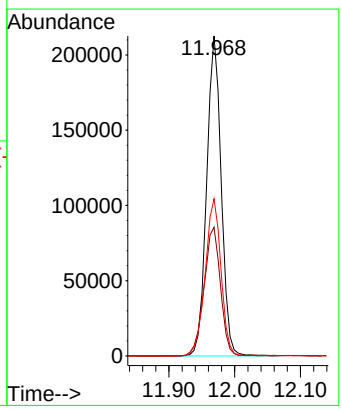
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

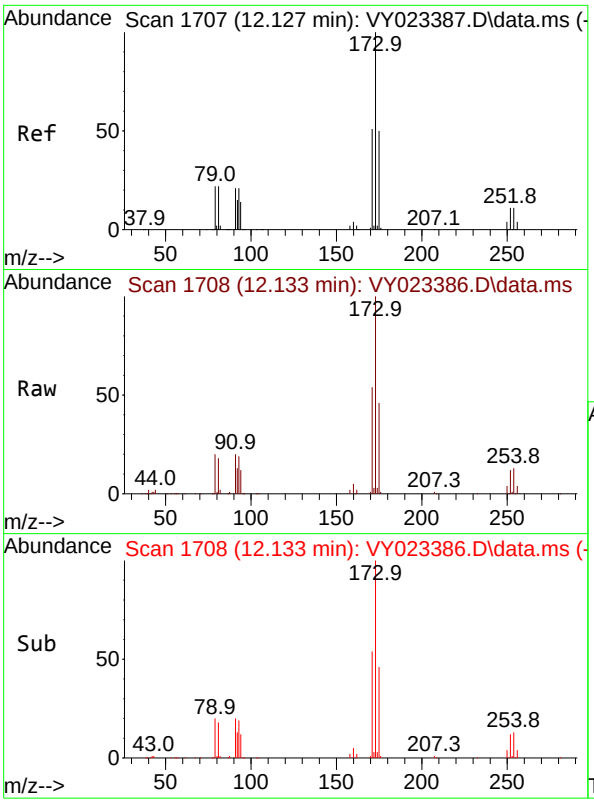


#70
Styrene
Concen: 20.208 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:104 Resp: 327934

Ion	Ratio	Lower	Upper
104	100		
78	45.4	36.1	54.1
103	53.3	43.2	64.8

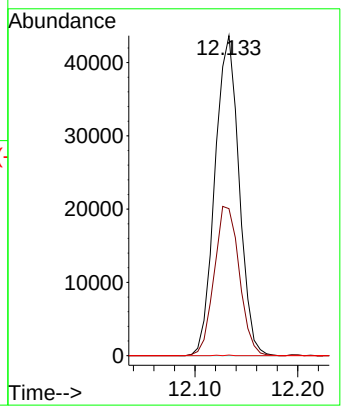




#71
Bromoform
Concen: 20.814 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:173 Resp: 7111

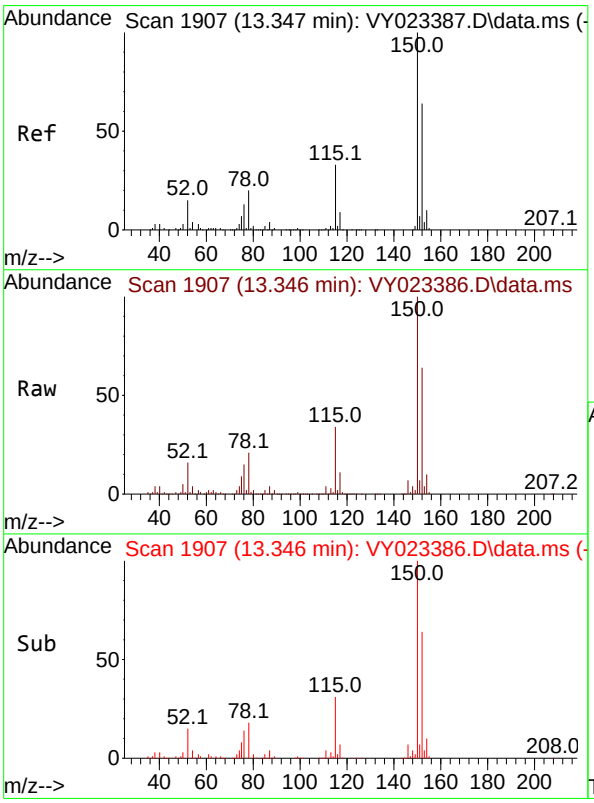
Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.8	74.3
254	0.0	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

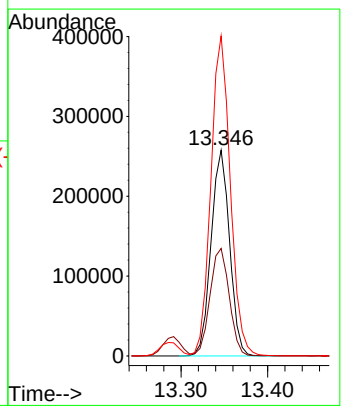
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

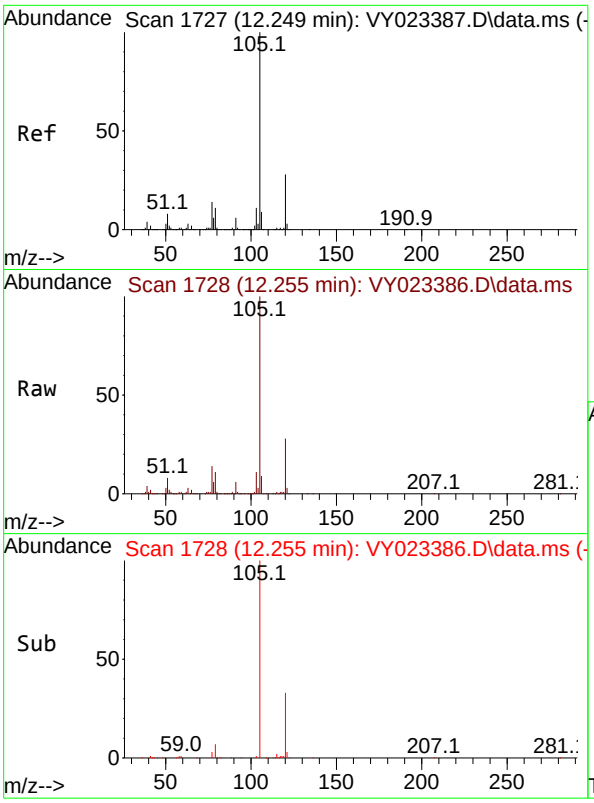


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:152 Resp: 382604

Ion	Ratio	Lower	Upper
152	100		
115	54.6	27.1	81.2
150	163.2	0.0	347.4

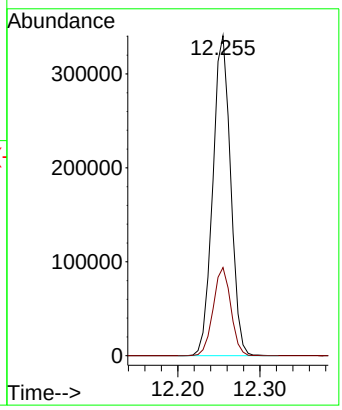




#73
Isopropylbenzene
Concen: 20.136 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:105 Resp: 51318

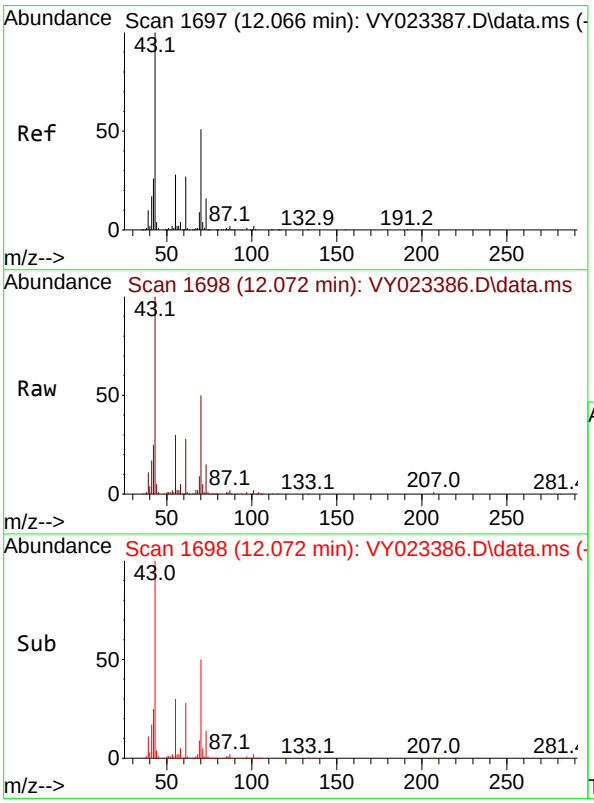
Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

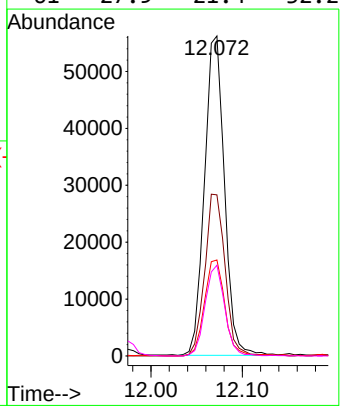
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

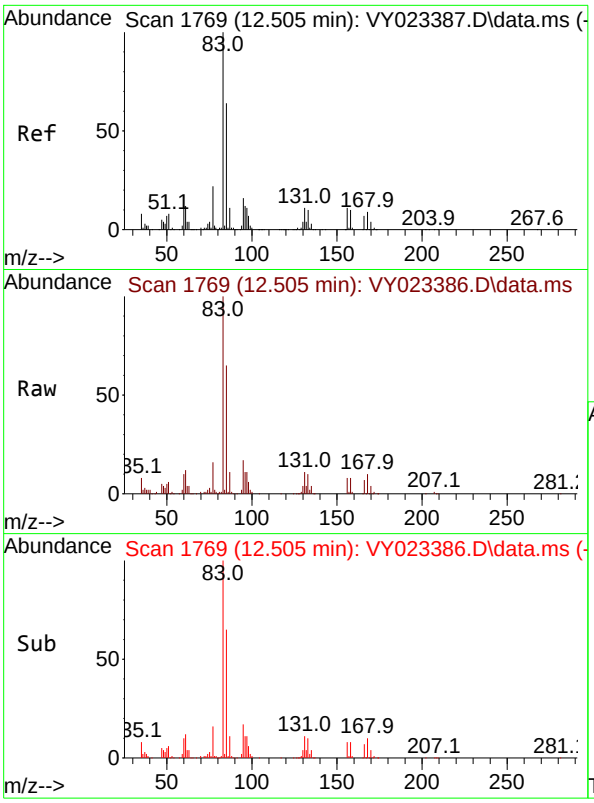


#74
N-amyl acetate
Concen: 17.860 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 85063

Ion	Ratio	Lower	Upper
43	100		
70	51.8	41.1	61.7
55	30.6	23.0	34.6
61	27.9	21.4	32.2

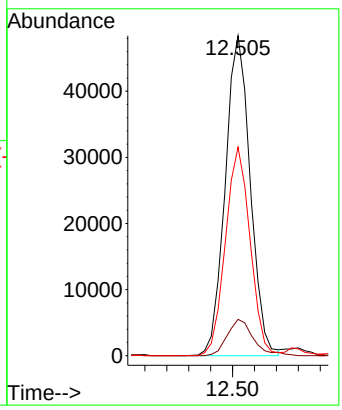




#75
1,1,2,2-Tetrachloroethane
Concen: 18.069 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 83 Resp: 7682

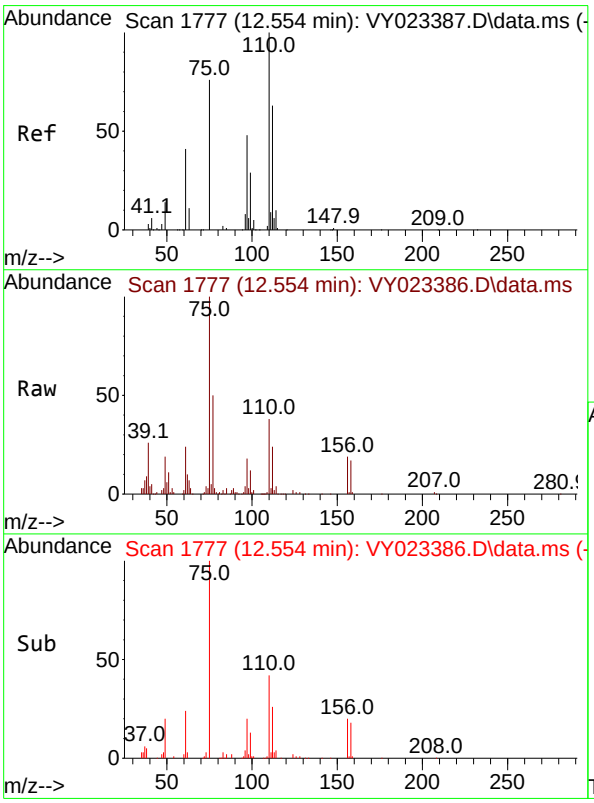
Ion	Ratio	Lower	Upper
83	100		
131	11.8	5.9	17.6
85	64.1	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

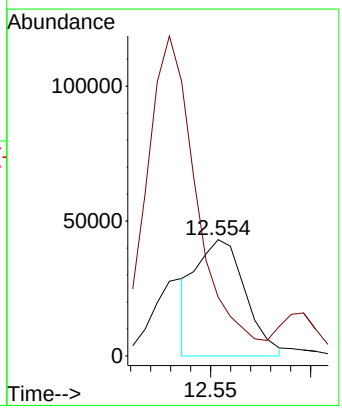
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

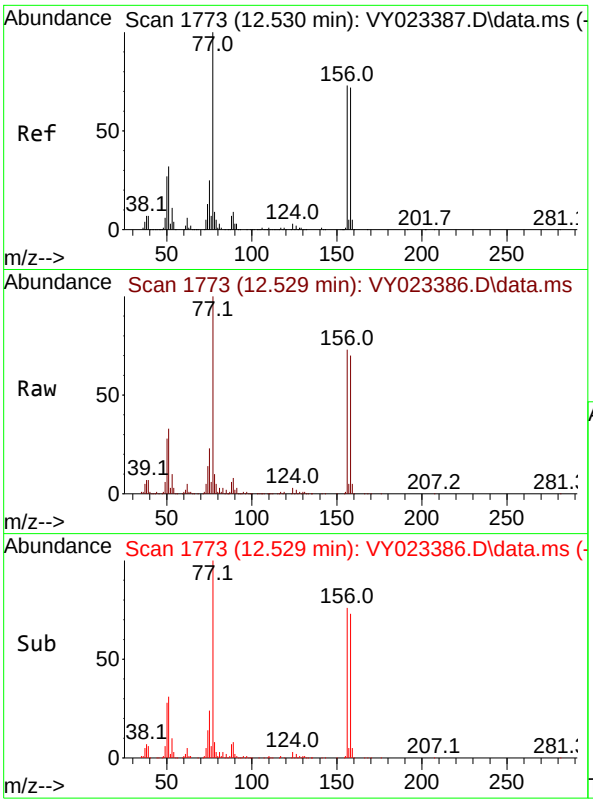


#76
1,2,3-Trichloropropane
Concen: 19.634 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 74100

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

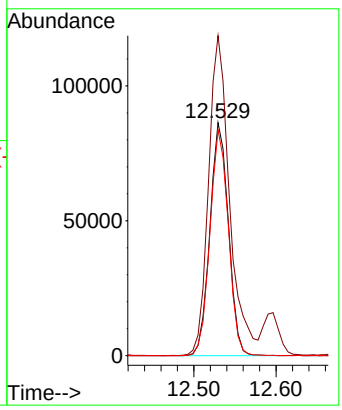




#77
Bromobenzene
Concen: 20.700 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:156 Resp: 13540

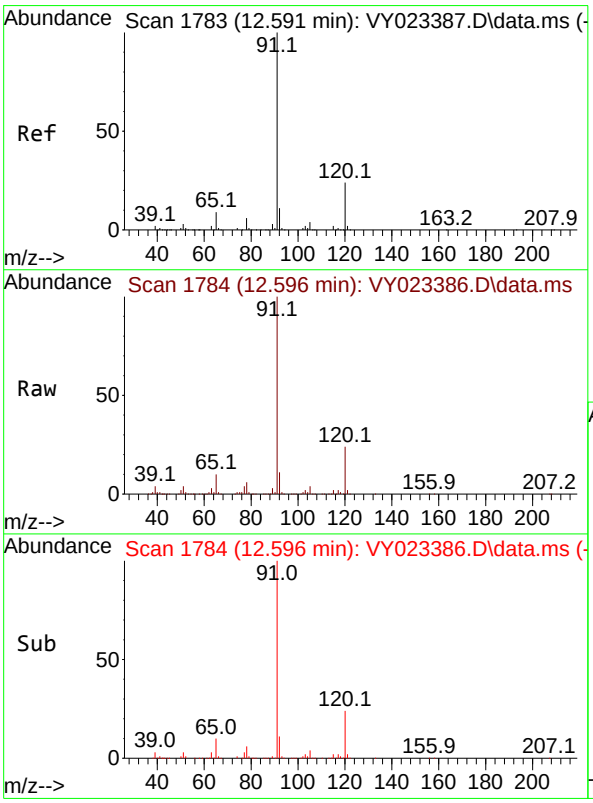
Ion	Ratio	Lower	Upper
156	100		
77	156.2	76.8	230.5
158	96.1	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

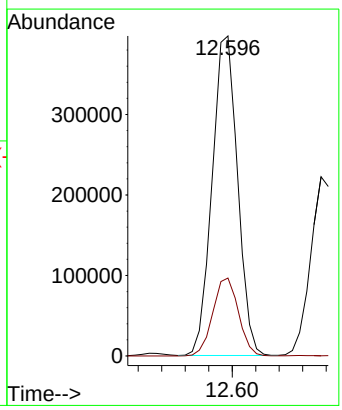
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

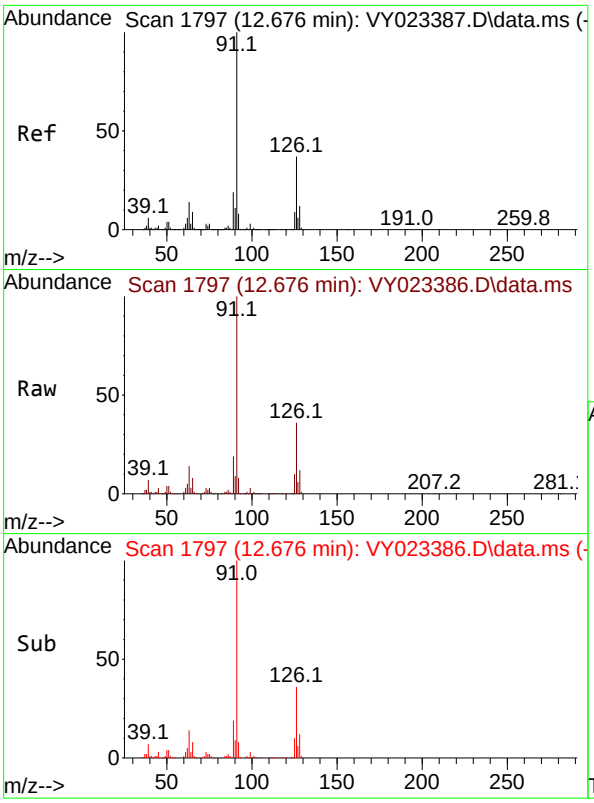


#78
n-propylbenzene
Concen: 19.945 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 597829

Ion	Ratio	Lower	Upper
91	100		
120	24.6	12.3	36.8

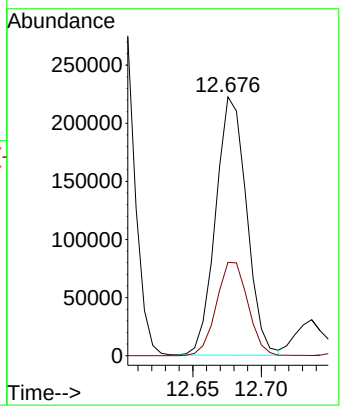




#79
2-Chlorotoluene
Concen: 20.179 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 34920

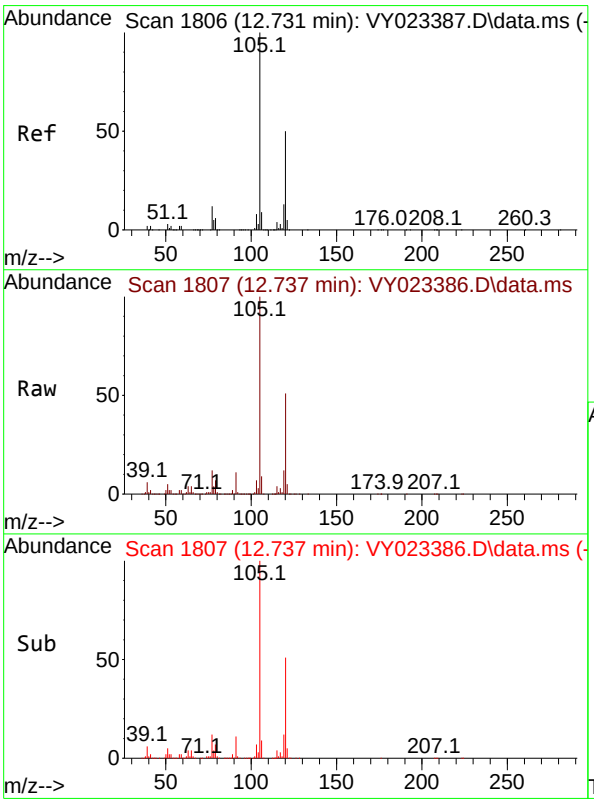
Ion	Ratio	Lower	Upper
91	100		
126	36.8	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

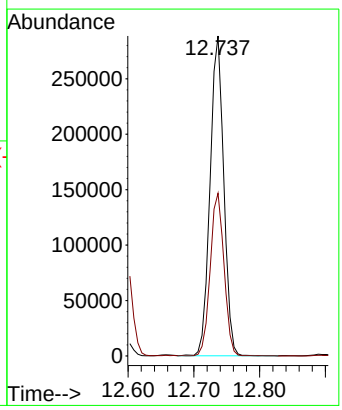
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

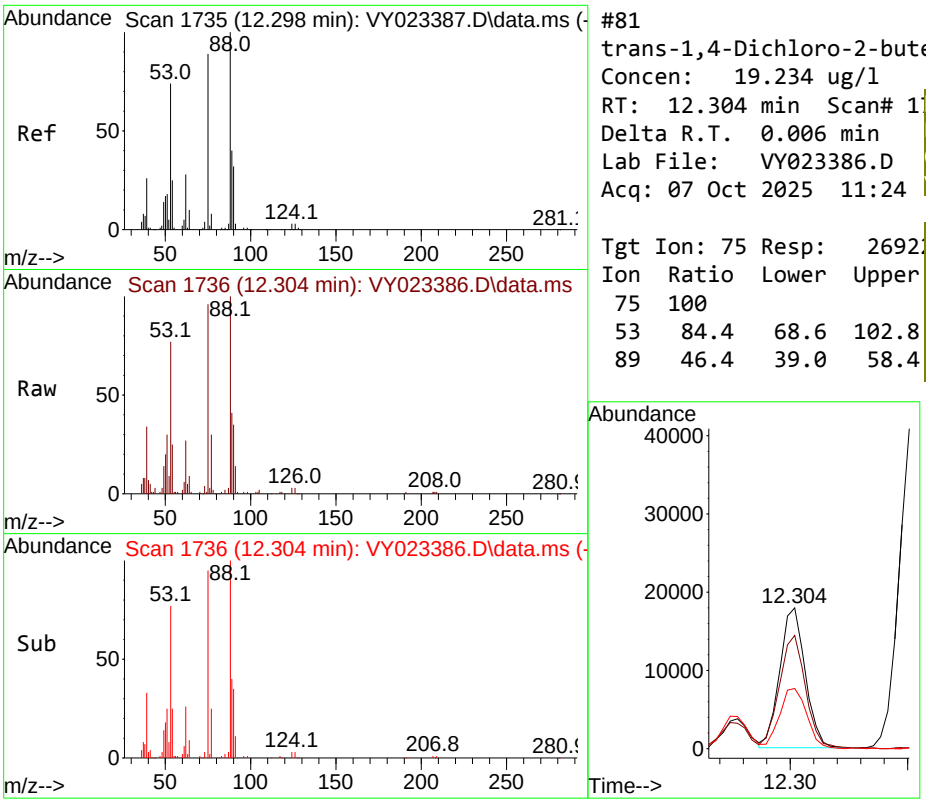


#80
1,3,5-Trimethylbenzene
Concen: 20.208 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:105 Resp: 418684

Ion	Ratio	Lower	Upper
105	100		
120	51.1	25.4	76.4





#81
trans-1,4-Dichloro-2-butene
Concen: 19.234 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

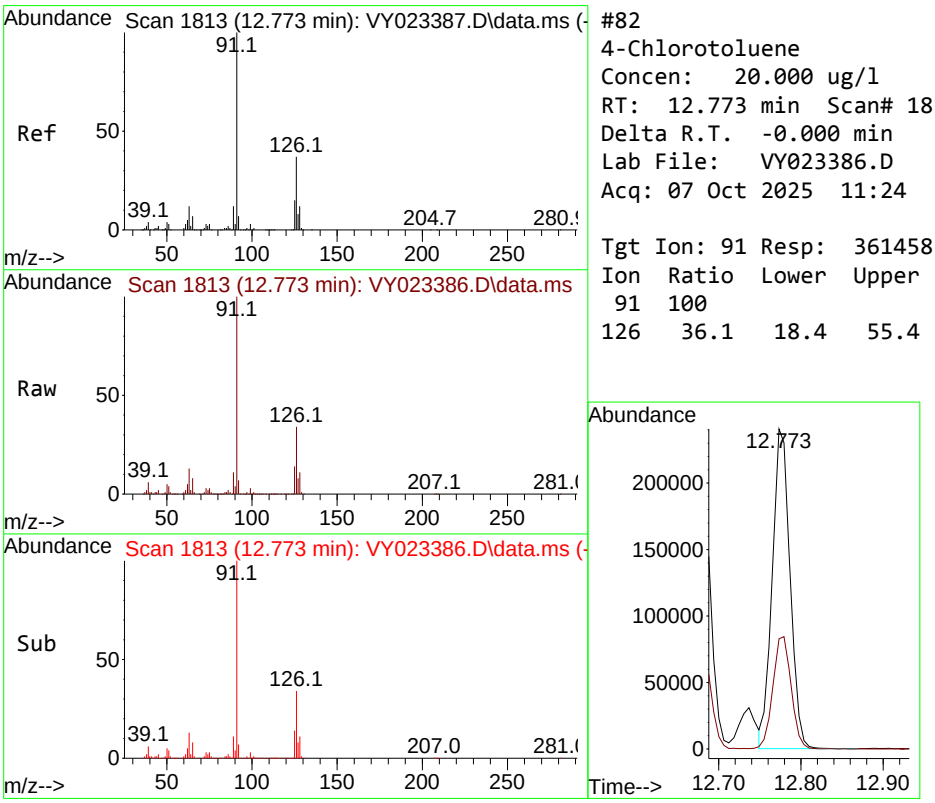
Tgt Ion: 75 Resp: 2692

Ion	Ratio	Lower	Upper
75	100		
53	84.4	68.6	102.8
89	46.4	39.0	58.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

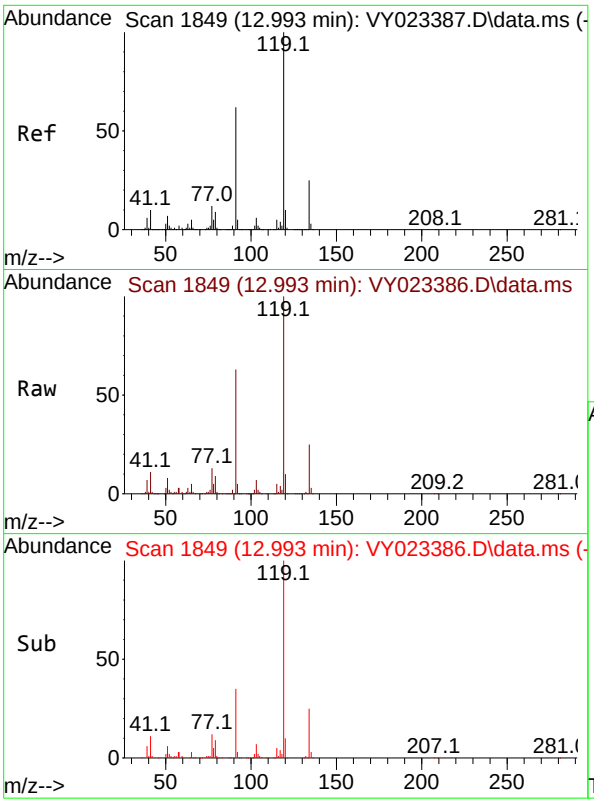
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#82
4-Chlorotoluene
Concen: 20.000 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 361458

Ion	Ratio	Lower	Upper
91	100		
126	36.1	18.4	55.4



#83
tert-Butylbenzene
Concen: 19.983 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

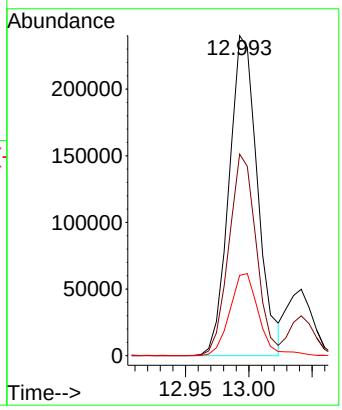
Tgt Ion:119 Resp: 37727

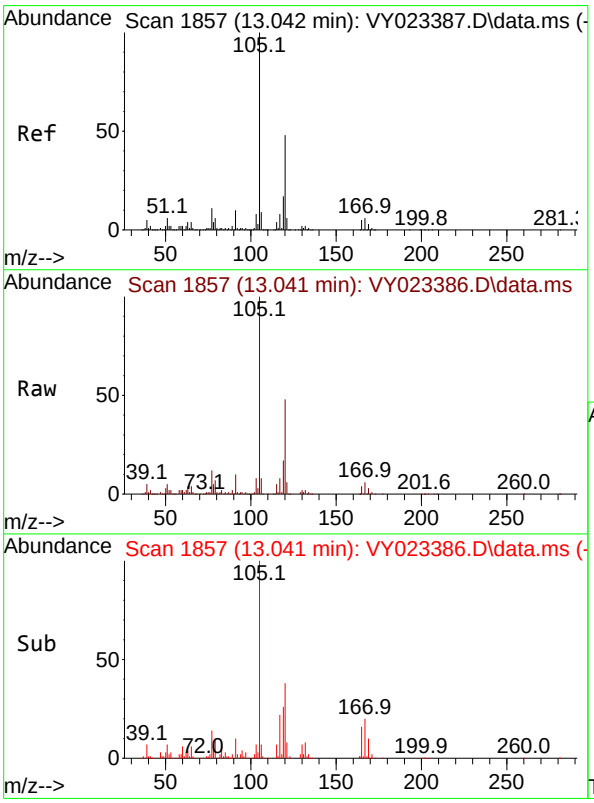
Ion	Ratio	Lower	Upper
119	100		
91	60.4	29.9	89.8
134	26.1	12.9	38.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

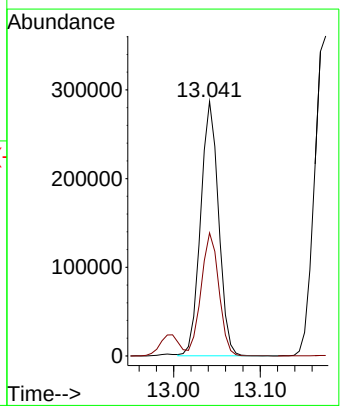


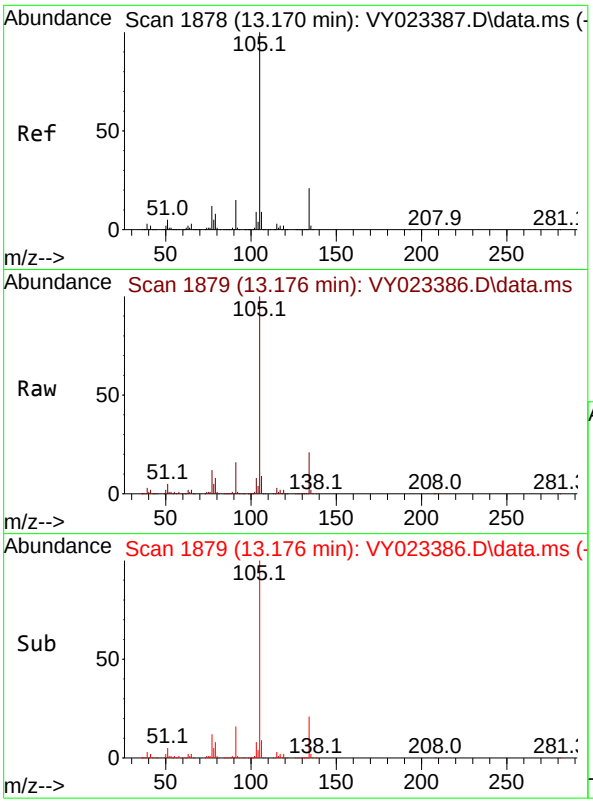


#84
1,2,4-Trimethylbenzene
Concen: 20.162 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:105 Resp: 413292

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.2

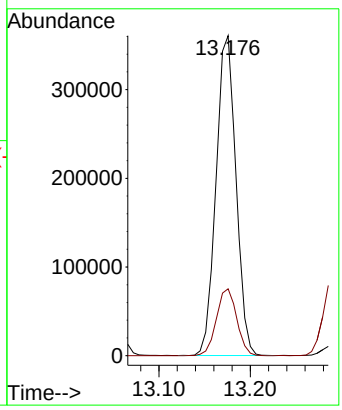




#85
sec-Butylbenzene
Concen: 19.990 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:105 Resp: 54658

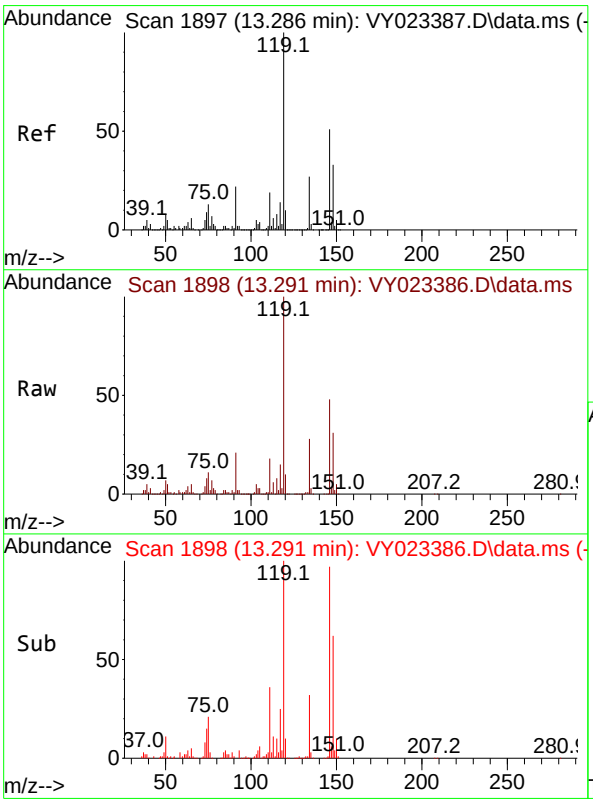
Ion	Ratio	Lower	Upper
105	100		
134	21.3	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

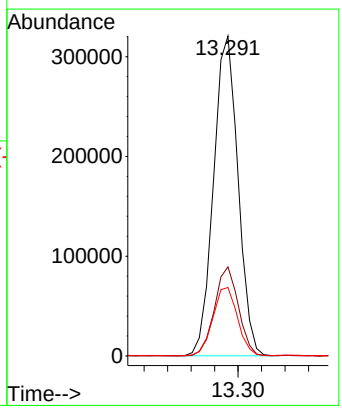
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

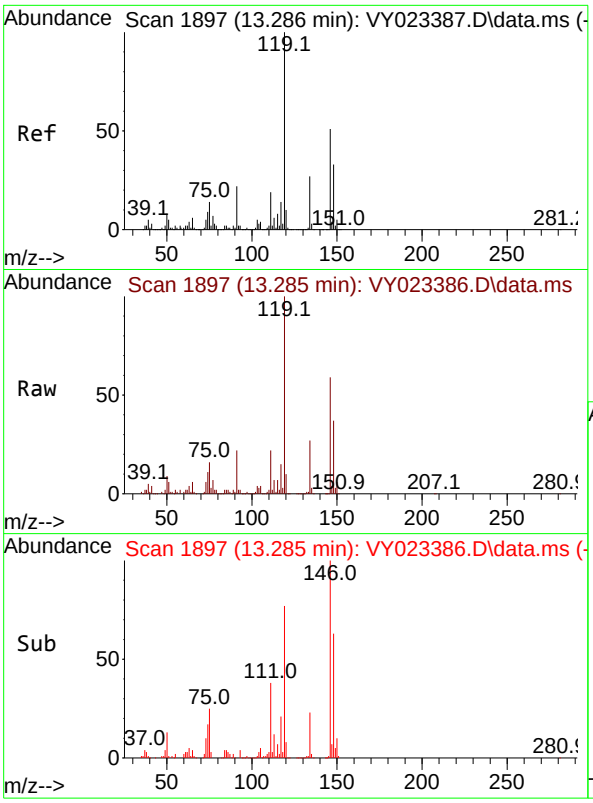


#86
p-Isopropyltoluene
Concen: 20.081 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:119 Resp: 464005

Ion	Ratio	Lower	Upper
119	100		
134	27.2	13.6	40.7
91	21.6	10.9	32.9

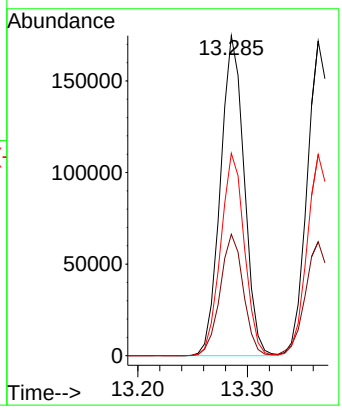




#87
1,3-Dichlorobenzene
Concen: 20.347 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:146 Resp: 26290

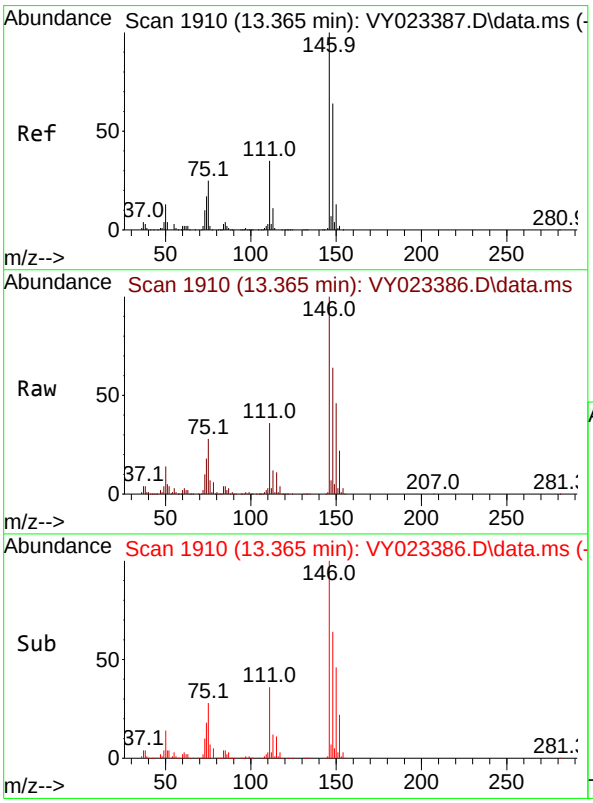
Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.7	56.1
148	63.1	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

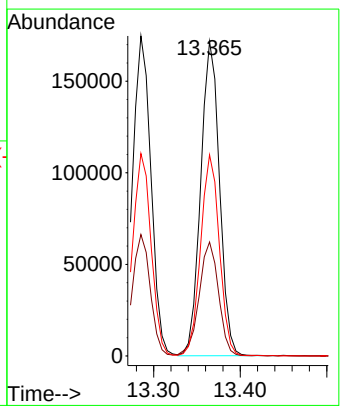
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

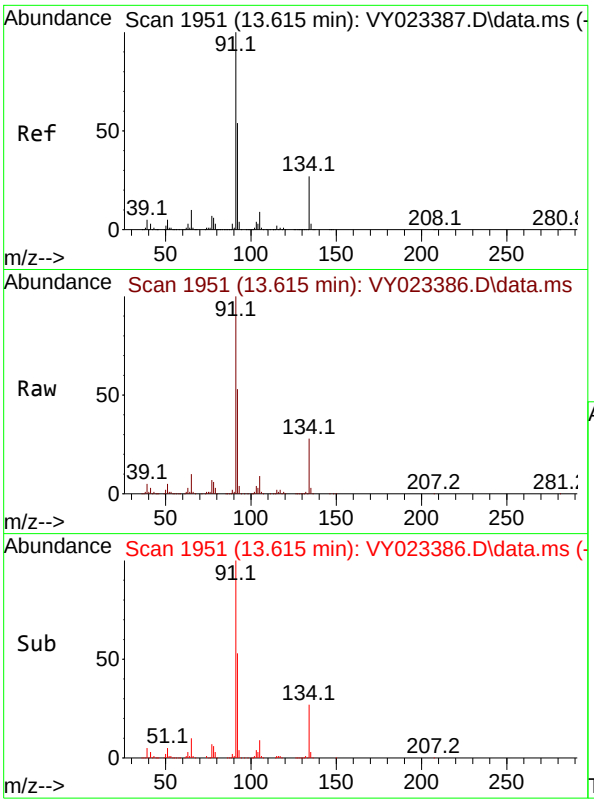


#88
1,4-Dichlorobenzene
Concen: 20.230 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:146 Resp: 259217

Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.0	54.0
148	63.6	31.9	95.7

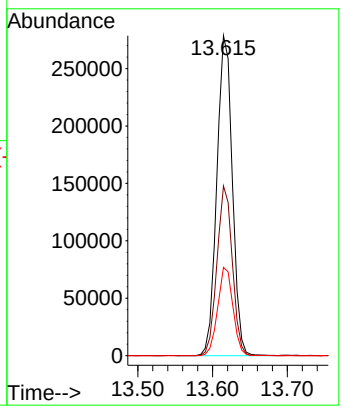




#89
n-Butylbenzene
Concen: 19.697 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 40189

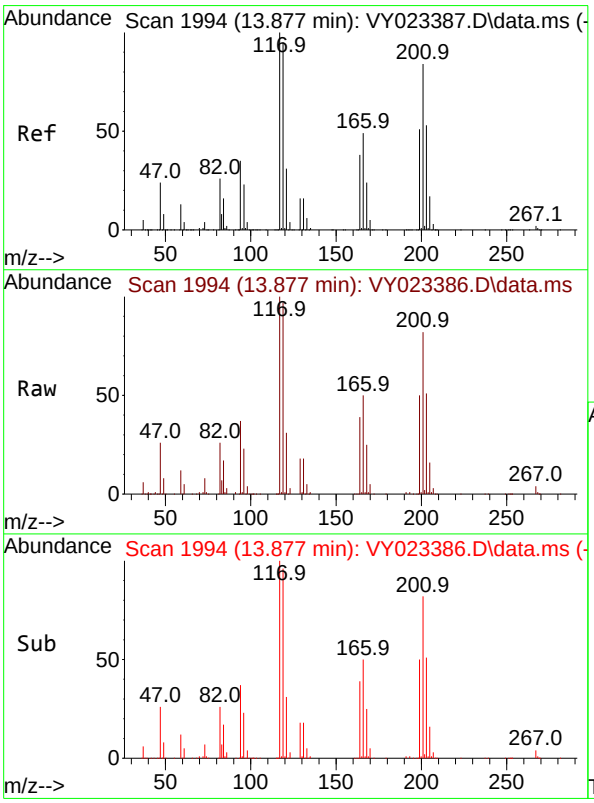
Ion	Ratio	Lower	Upper
91	100		
92	52.6	27.0	80.8
134	27.3	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

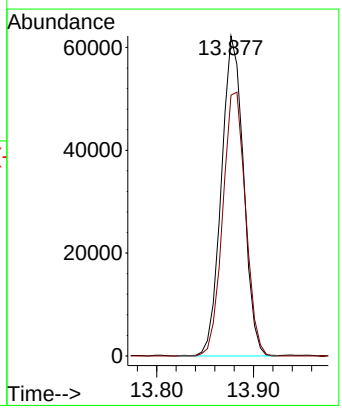
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

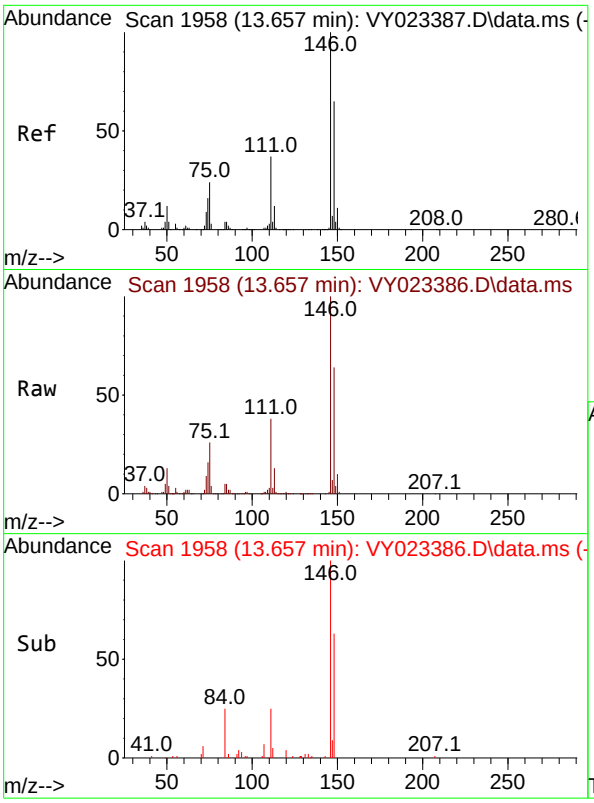


#90
Hexachloroethane
Concen: 19.730 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:117 Resp: 98983

Ion	Ratio	Lower	Upper
117	100		
201	84.8	43.8	131.4

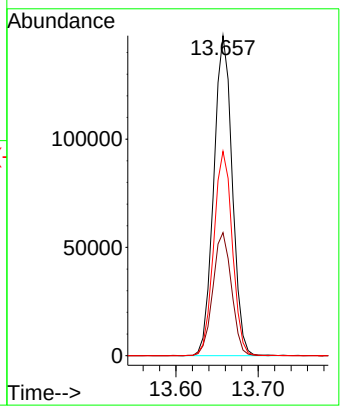




#91
1,2-Dichlorobenzene
Concen: 20.507 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:146 Resp: 23119

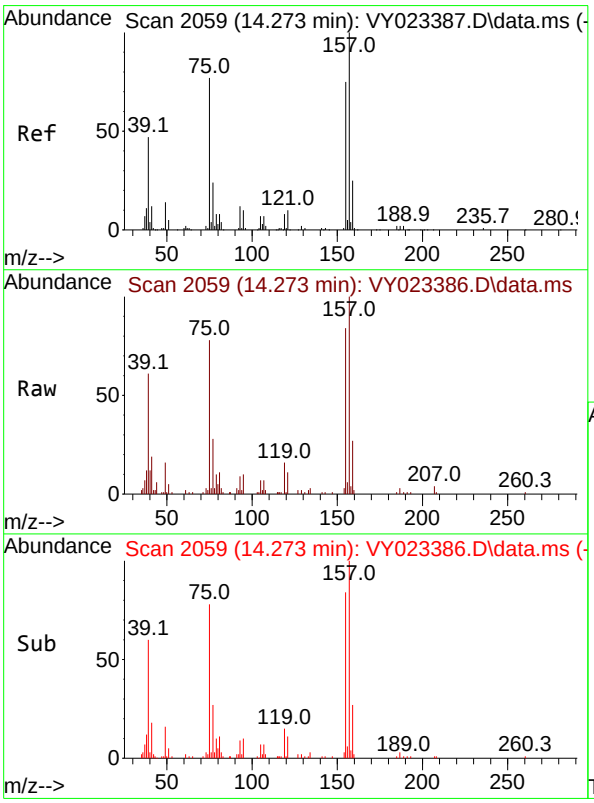
Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.0	57.0
148	64.1	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

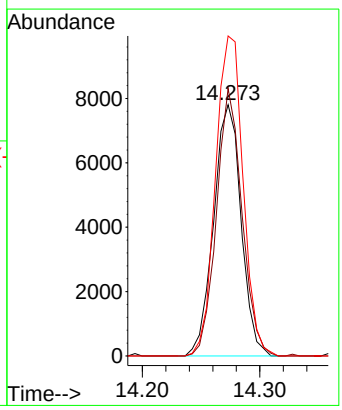
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

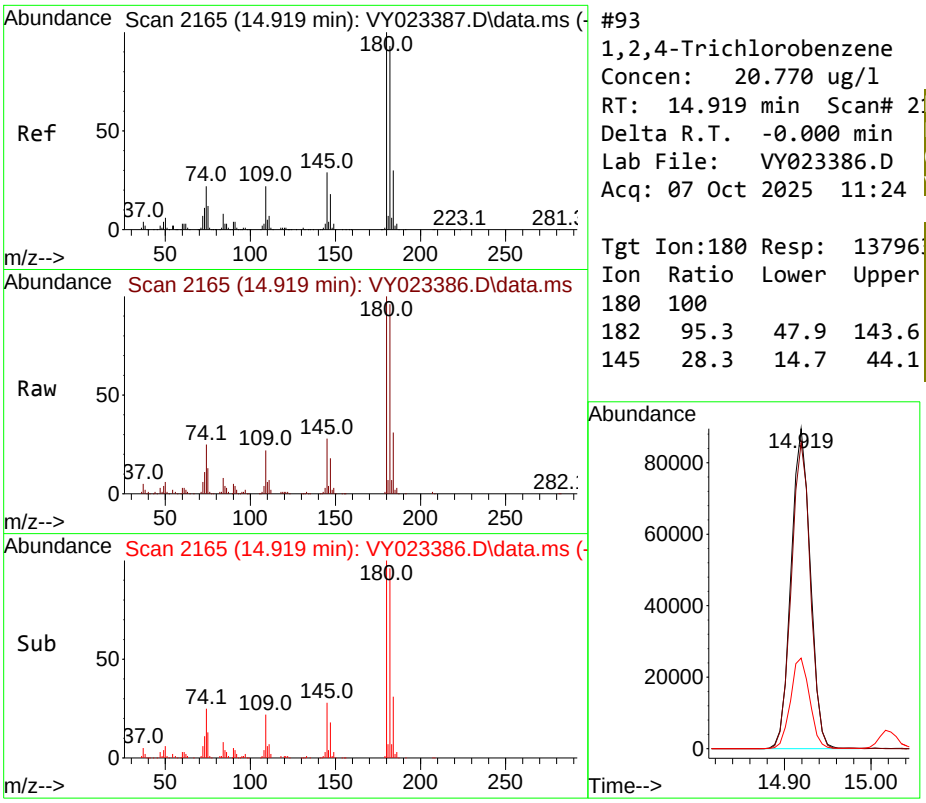


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.802 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 12668

Ion	Ratio	Lower	Upper
75	100		
155	99.1	50.0	150.0
157	127.9	63.8	191.5





#93
1,2,4-Trichlorobenzene
Concen: 20.770 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

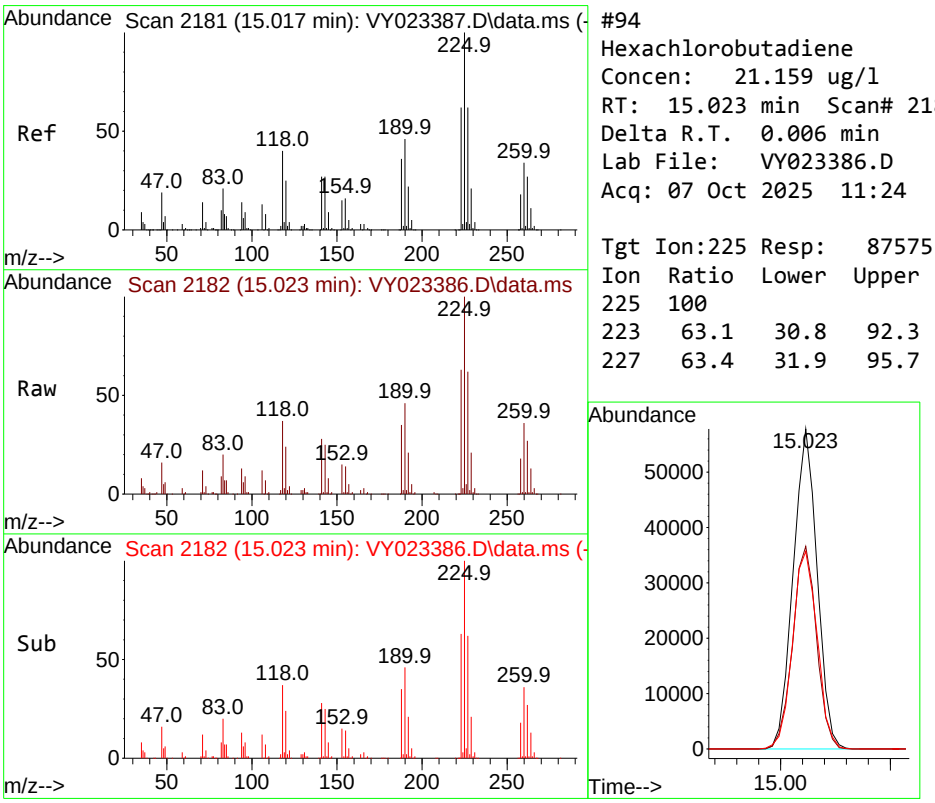
Tgt Ion:180 Resp: 13796

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.9	143.6
145	28.3	14.7	44.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

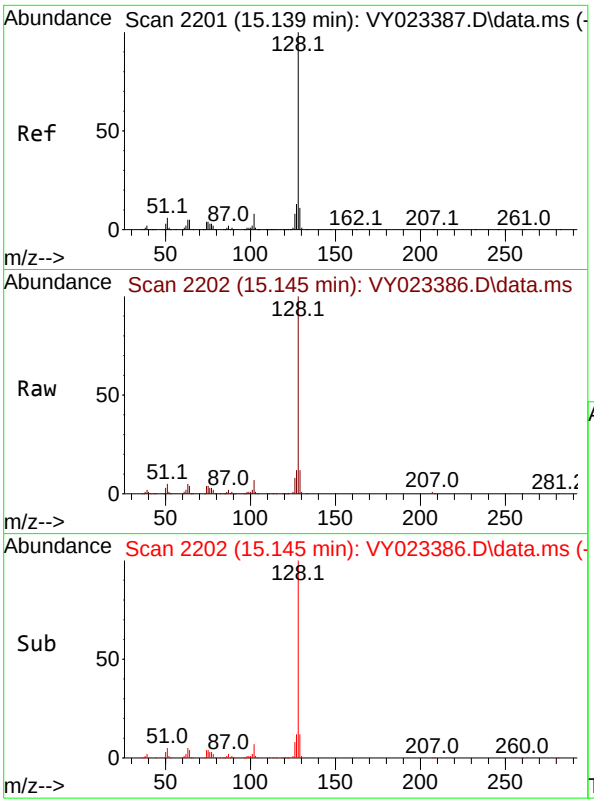
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#94
Hexachlorobutadiene
Concen: 21.159 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:225 Resp: 87575

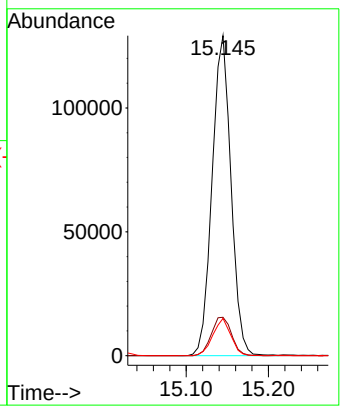
Ion	Ratio	Lower	Upper
225	100		
223	63.1	30.8	92.3
227	63.4	31.9	95.7



#95
Naphthalene
Concen: 19.467 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:128 Resp: 20601

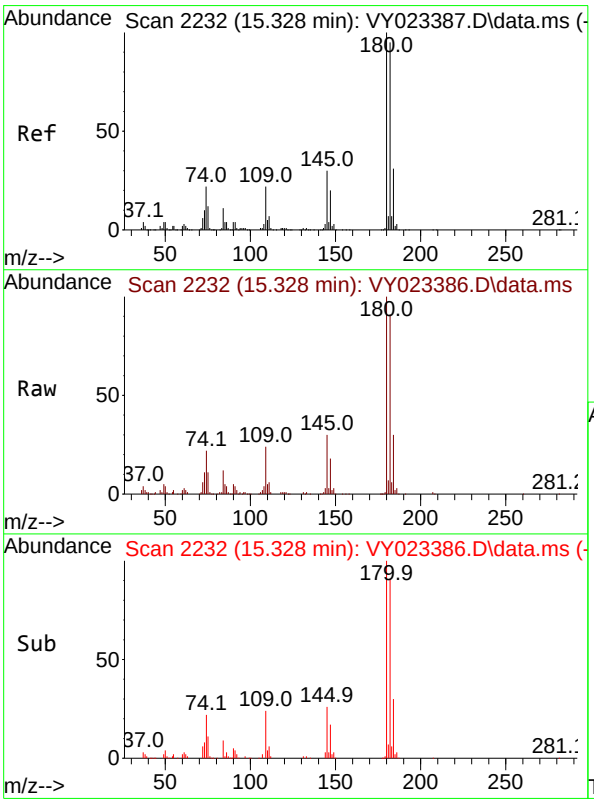
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.1	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

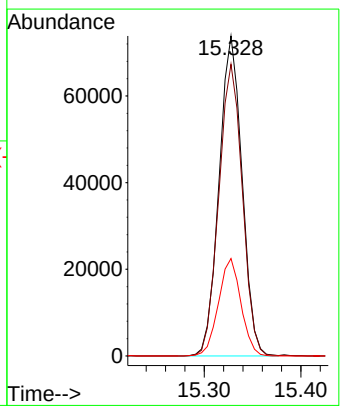
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#96
1,2,3-Trichlorobenzene
Concen: 21.113 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:180 Resp: 121656

Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.9	143.8
145	29.8	15.3	45.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023387.D
Acq On : 07 Oct 2025 11:47
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	590340	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	858767	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	749869	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	392169	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	231295	45.240	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 90.480%			
35) Dibromofluoromethane	7.634	113	256331	49.185	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.360%			
50) Toluene-d8	10.103	98	969649	49.334	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.660%			
62) 4-Bromofluorobenzene	12.402	95	313426	50.546	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.100%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	189467	40.745	ug/l	100
3) Chloromethane	2.068	50	265142	40.113	ug/l	100
4) Vinyl Chloride	2.202	62	352993	42.293	ug/l	100
5) Bromomethane	2.592	94	277005	40.458	ug/l	100
6) Chloroethane	2.733	64	244551	43.157	ug/l	100
7) Trichlorofluoromethane	3.056	101	496981	46.354	ug/l	100
8) Diethyl Ether	3.452	74	126634	45.158	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	258100	45.039	ug/l	100
10) Methyl Iodide	4.001	142	317731	47.979	ug/l	100
11) Tert butyl alcohol	4.860	59	73642	244.793	ug/l	100
12) 1,1-Dichloroethene	3.787	96	252190	45.738	ug/l	100
13) Acrolein	3.647	56	123642	242.575	ug/l	100
14) Allyl chloride	4.379	41	310569	44.989	ug/l	100
15) Acrylonitrile	5.055	53	240668	219.075	ug/l	100
16) Acetone	3.866	43	247122	214.955	ug/l	100
17) Carbon Disulfide	4.104	76	722982	42.028	ug/l	100
18) Methyl Acetate	4.385	43	144816	49.563	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	601934	46.626	ug/l	100
20) Methylene Chloride	4.616	84	270612	43.409	ug/l	100
21) trans-1,2-Dichloroethene	5.110	96	277516	45.256	ug/l	100
22) Diisopropyl ether	6.019	45	686481	44.844	ug/l	100
23) Vinyl Acetate	5.958	43	1843784	219.119	ug/l	100
24) 1,1-Dichloroethane	5.915	63	448267	44.423	ug/l	100
25) 2-Butanone	6.890	43	310237	218.327	ug/l	100
26) 2,2-Dichloropropane	6.884	77	416391	46.440	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	320028	46.010	ug/l	100
28) Bromochloromethane	7.244	49	157414	40.211	ug/l	100
29) Tetrahydrofuran	7.262	42	187787	222.653	ug/l	100
30) Chloroform	7.421	83	493098	45.316	ug/l	100
31) Cyclohexane	7.701	56	379644	42.602	ug/l	100
32) 1,1,1-Trichloroethane	7.616	97	452713	46.347	ug/l	100
36) 1,1-Dichloropropene	7.835	75	341353	46.424	ug/l	100
37) Ethyl Acetate	6.982	43	129053	44.394	ug/l	100
38) Carbon Tetrachloride	7.817	117	413187	48.374	ug/l	100
39) Methylcyclohexane	9.109	83	452959	48.113	ug/l	100
40) Benzene	8.079	78	1080883	47.154	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023387.D
Acq On : 07 Oct 2025 11:47
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 08 04:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.220	41	68542	45.399 ug/l		100
42) 1,2-Dichloroethane	8.152	62	270387	46.350 ug/l		100
43) Isopropyl Acetate	8.195	43	259041	45.811 ug/l		100
44) Trichloroethene	8.866	130	315104	48.982 ug/l		100
45) 1,2-Dichloropropane	9.140	63	234978	45.555 ug/l		100
46) Dibromomethane	9.231	93	148914	47.198 ug/l		100
47) Bromodichloromethane	9.420	83	377084	47.482 ug/l		100
48) Methyl methacrylate	9.219	41	126732	48.027 ug/l		100
49) 1,4-Dioxane	9.225	88	34053	1042.312 ug/l		100
51) 4-Methyl-2-Pentanone	9.993	43	682879	235.772 ug/l		100
52) Toluene	10.170	92	710404	48.824 ug/l		100
53) t-1,3-Dichloropropene	10.390	75	330392	48.438 ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	390619	47.910 ug/l		100
55) 1,1,2-Trichloroethane	10.573	97	198478	47.296 ug/l		100
56) Ethyl methacrylate	10.438	69	239407	49.535 ug/l		100
57) 1,3-Dichloropropane	10.713	76	321276	47.301 ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	553816	261.921 ug/l		100
59) 2-Hexanone	10.756	43	479606	239.162 ug/l		100
60) Dibromochloromethane	10.908	129	281047	49.103 ug/l		100
61) 1,2-Dibromoethane	11.012	107	191356	48.468 ug/l		100
64) Tetrachloroethene	10.646	164	392056	52.264 ug/l		100
65) Chlorobenzene	11.438	112	789650	48.460 ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.511	131	279583	48.788 ug/l		100
67) Ethyl Benzene	11.518	91	1332350	50.099 ug/l		100
68) m/p-Xylenes	11.627	106	1077583	101.092 ug/l		100
69) o-Xylene	11.950	106	502722	50.946 ug/l		100
70) Styrene	11.969	104	831908	51.059 ug/l		100
71) Bromoform	12.127	173	172315	50.229 ug/l	#	100
73) Isopropylbenzene	12.249	105	1301009	49.803 ug/l		100
74) N-amyl acetate	12.066	43	227684	46.640 ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.505	83	195565	44.878 ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	169814m	43.898 ug/l		
77) Bromobenzene	12.530	156	331331	49.419 ug/l		100
78) n-propylbenzene	12.591	91	1522965	49.572 ug/l		100
79) 2-Chlorotoluene	12.676	91	873335	49.235 ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	1061112	49.966 ug/l		100
81) trans-1,4-Dichloro-2-b...	12.298	75	66299	46.212 ug/l		100
82) 4-Chlorotoluene	12.773	91	892764	48.192 ug/l		100
83) tert-Butylbenzene	12.993	119	988936	51.104 ug/l		100
84) 1,2,4-Trimethylbenzene	13.042	105	1061159	50.505 ug/l		100
85) sec-Butylbenzene	13.170	105	1405003	50.133 ug/l		100
86) p-Isopropyltoluene	13.286	119	1210644	51.115 ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	649899	49.072 ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	636694	48.476 ug/l		100
89) n-Butylbenzene	13.615	91	1051949	50.299 ug/l		100
90) Hexachloroethane	13.877	117	245108	47.664 ug/l		100
91) 1,2-Dichlorobenzene	13.657	146	567114	49.075 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	32585	47.184 ug/l		100
93) 1,2,4-Trichlorobenzene	14.919	180	359833	52.852 ug/l		100
94) Hexachlorobutadiene	15.017	225	226316	53.346 ug/l		100
95) Naphthalene	15.139	128	575044	53.012 ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	310831	52.628 ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023387.D
Acq On : 07 Oct 2025 11:47
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

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

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

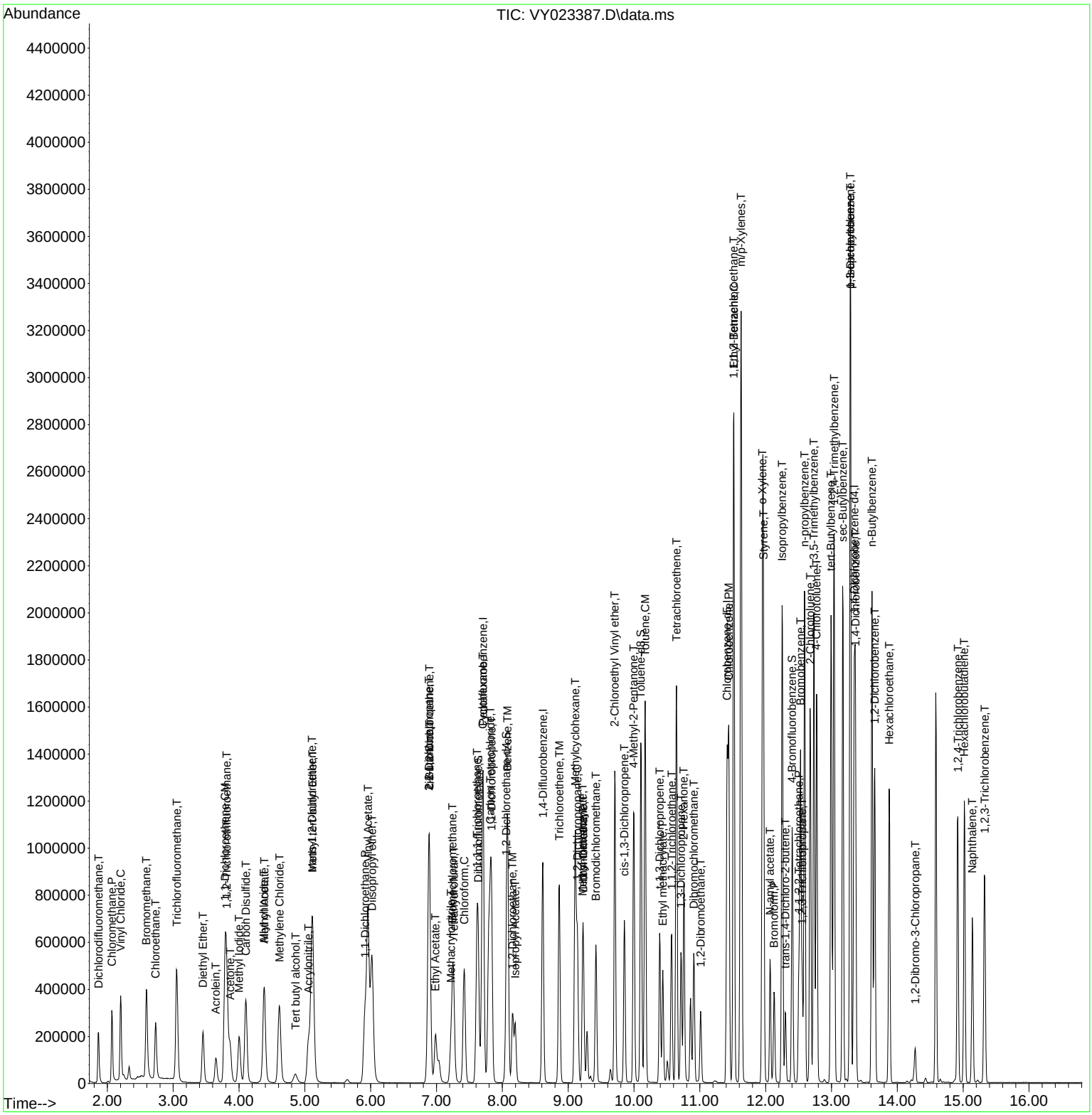
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023387.D
Acq On : 07 Oct 2025 11:47
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

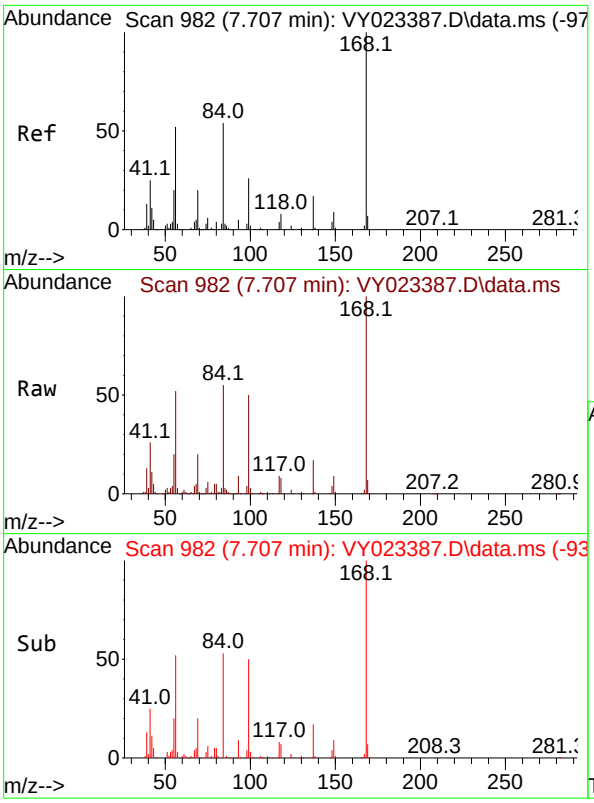
Quant Time: Oct 08 04:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

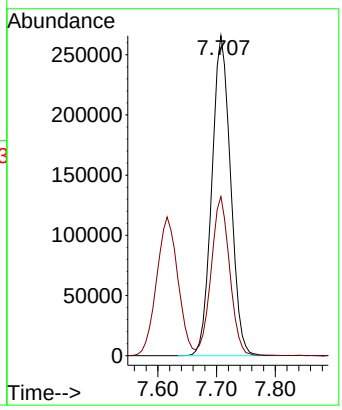




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:168 Resp: 59034

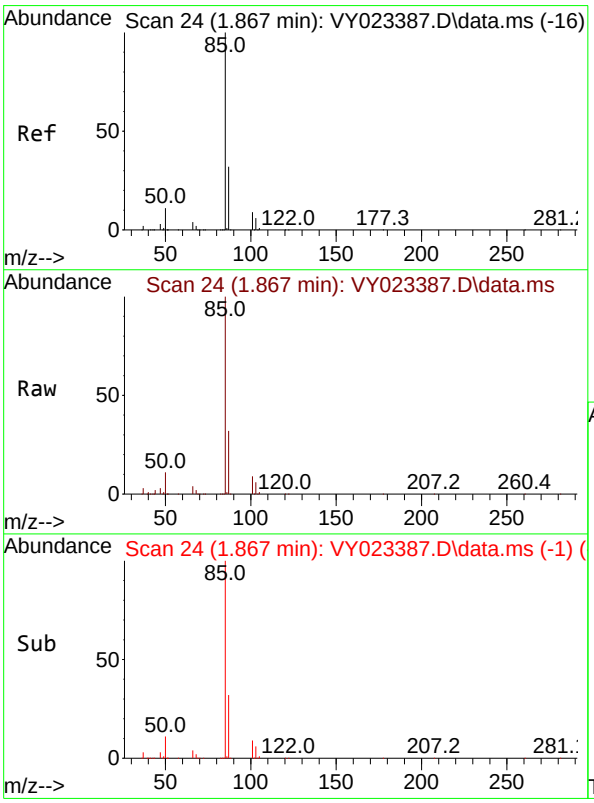
Ion	Ratio	Lower	Upper
168	100		
99	49.6	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

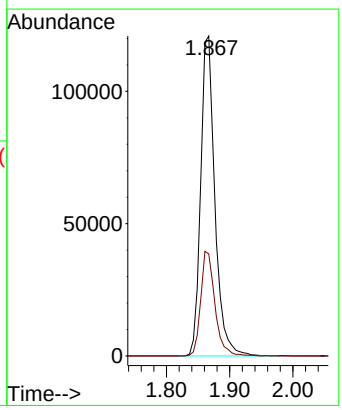
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

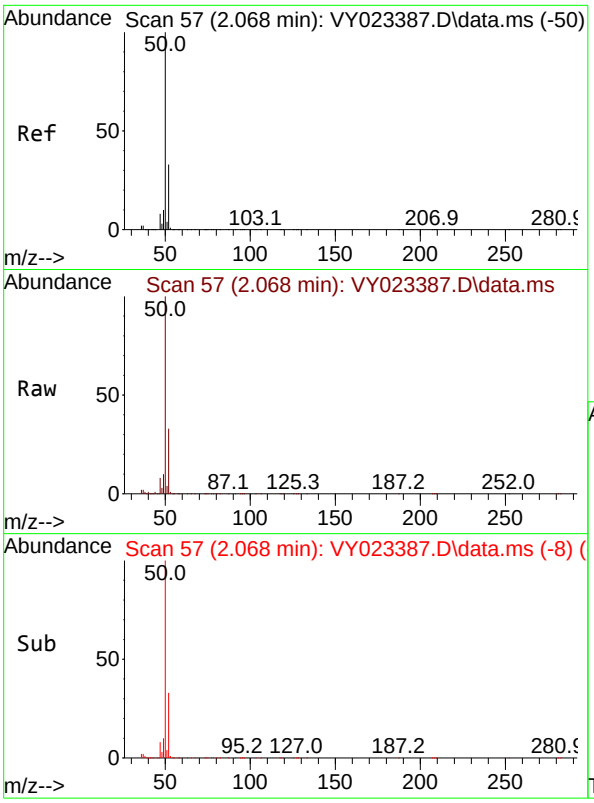


#2
Dichlorodifluoromethane
Concen: 40.745 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 85 Resp: 189467

Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.0	47.9

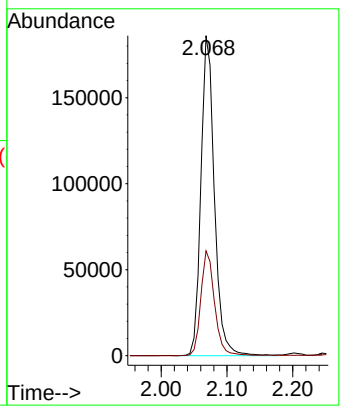




#3
Chloromethane
Concen: 40.113 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 50 Resp: 26514

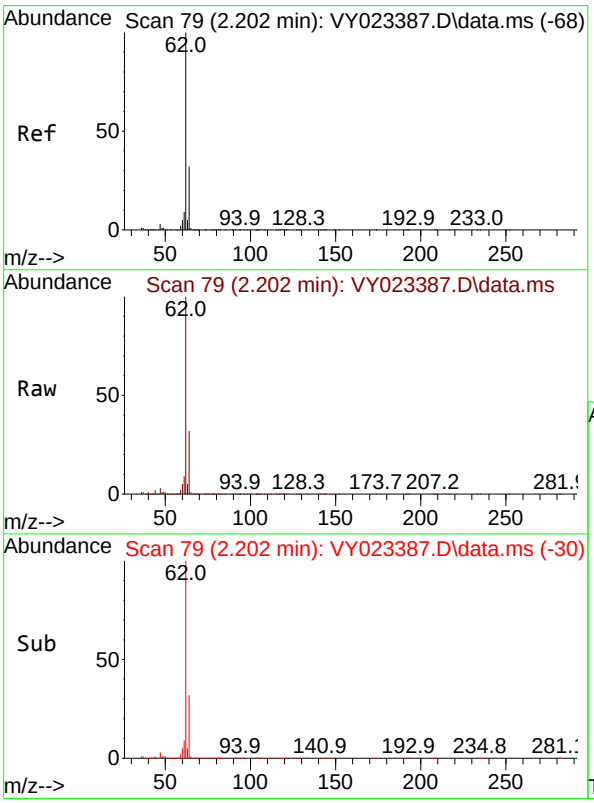
Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

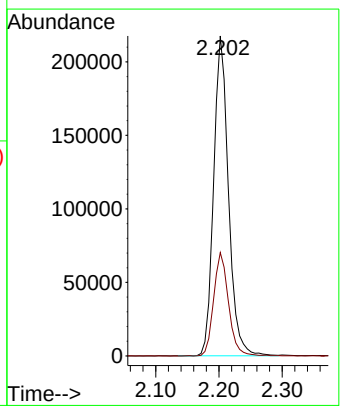
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

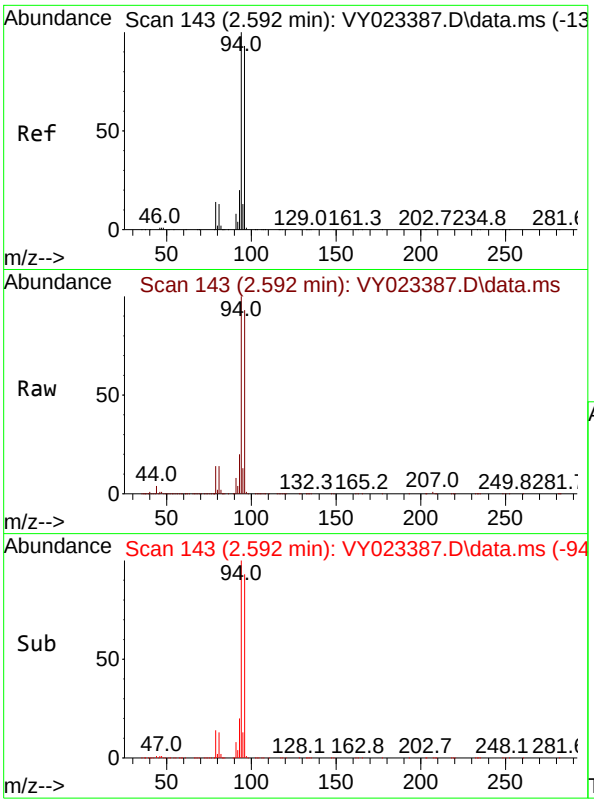


#4
Vinyl Chloride
Concen: 42.293 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 62 Resp: 352993

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.8	38.8

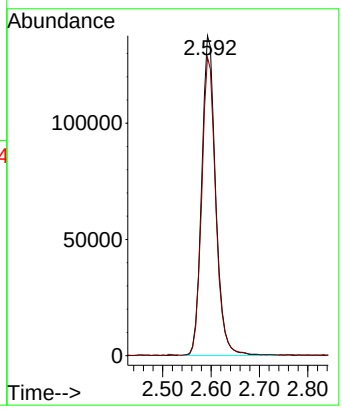




#5
Bromomethane
Concen: 40.458 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 94 Resp: 27700

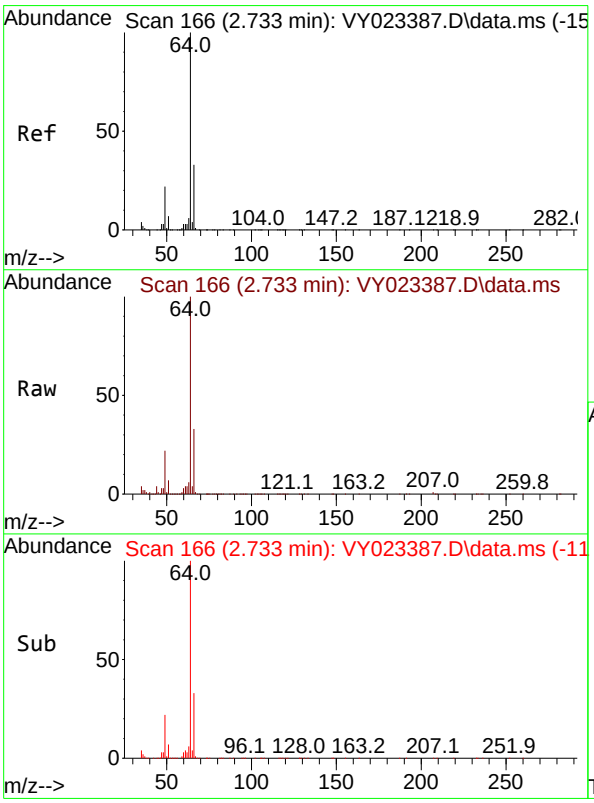
Ion	Ratio	Lower	Upper
94	100		
96	93.1	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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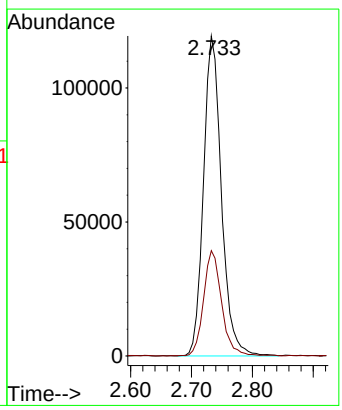
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

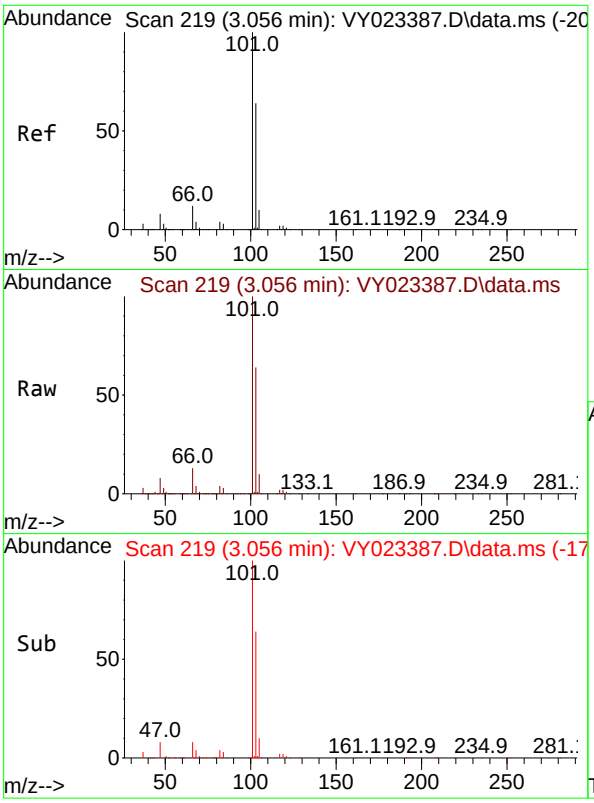


#6
Chloroethane
Concen: 43.157 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 64 Resp: 244551

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.2	39.4

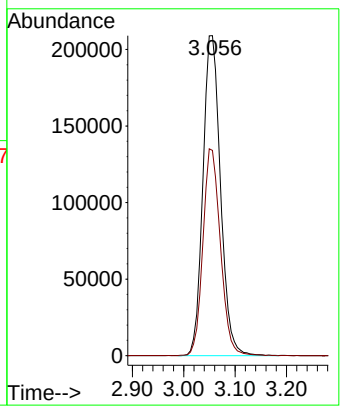




#7
Trichlorofluoromethane
Concen: 46.354 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:101 Resp: 49698

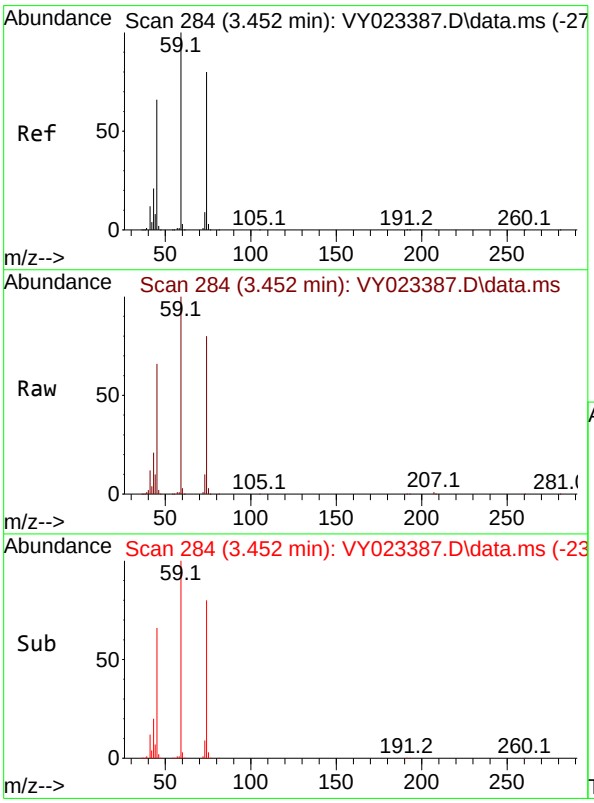
Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

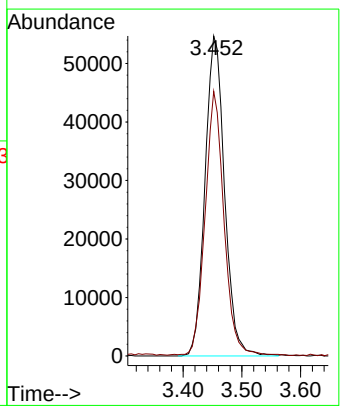
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

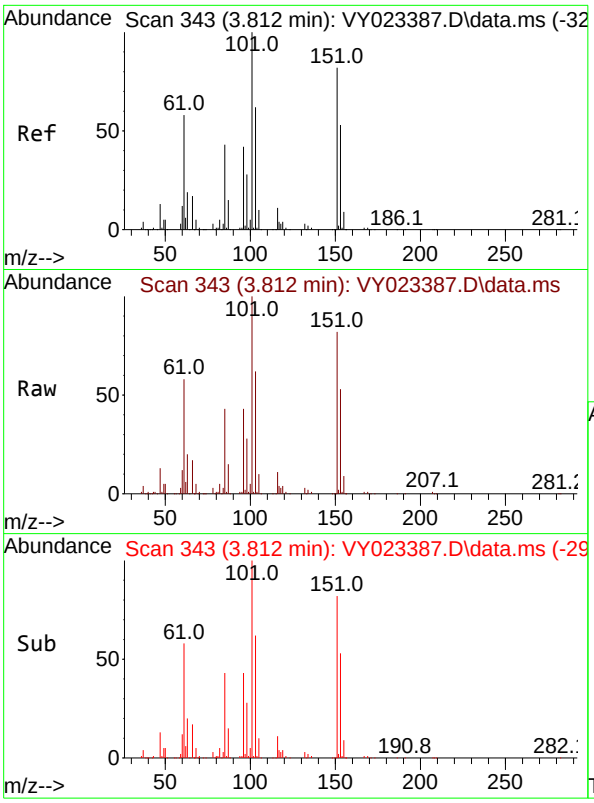


#8
Diethyl Ether
Concen: 45.158 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 74 Resp: 126634

Ion	Ratio	Lower	Upper
74	100		
45	79.8	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.039 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

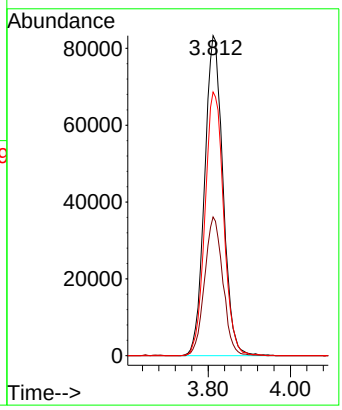
Tgt Ion:101 Resp: 25810

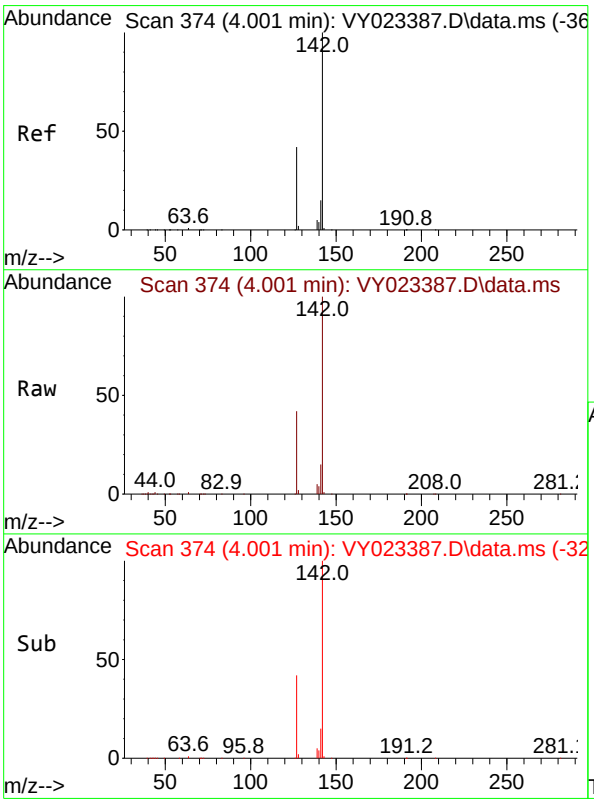
Ion	Ratio	Lower	Upper
101	100		
85	43.2	34.6	51.8
151	83.8	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

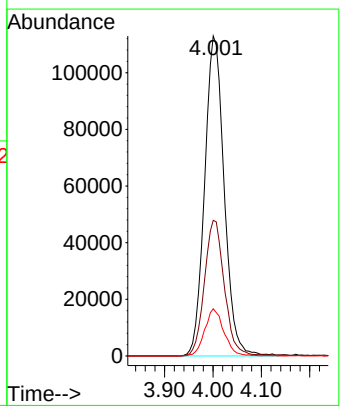


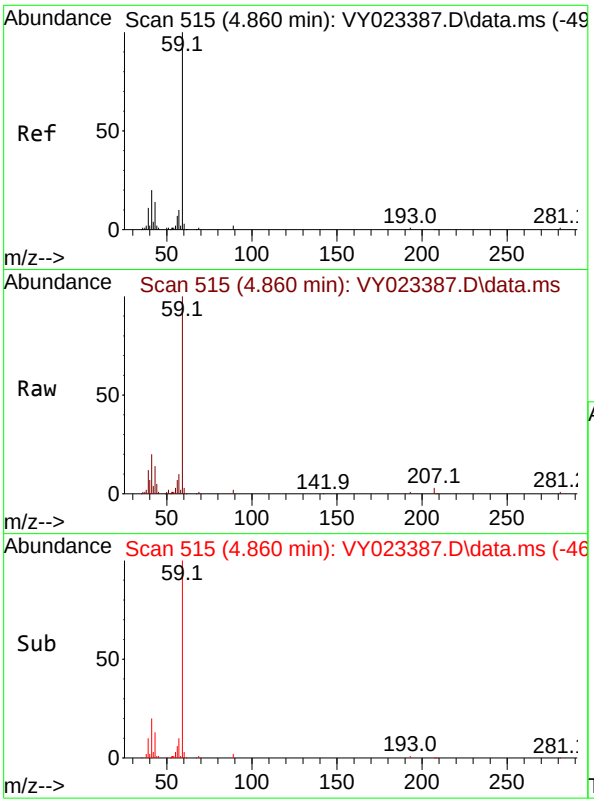


#10
Methyl Iodide
Concen: 47.979 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:142 Resp: 317731

Ion	Ratio	Lower	Upper
142	100		
127	43.5	34.8	52.2
141	14.5	11.6	17.4

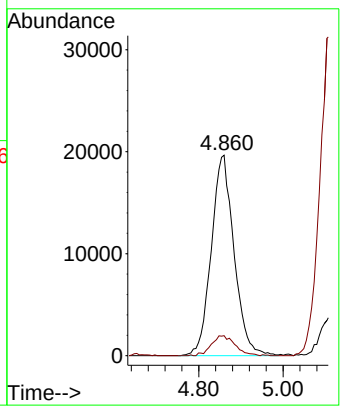




#11
Tert butyl alcohol
Concen: 244.793 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 59 Resp: 7364

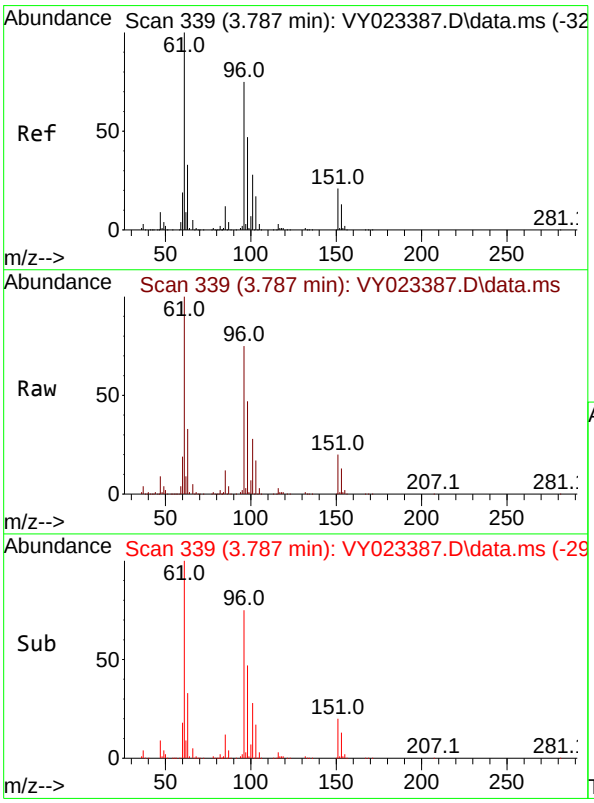
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

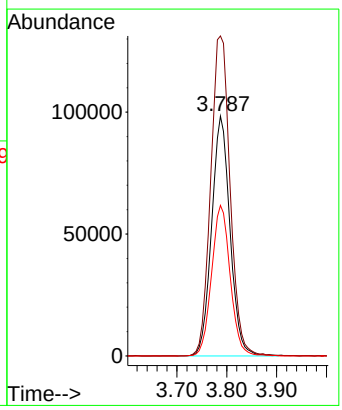
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

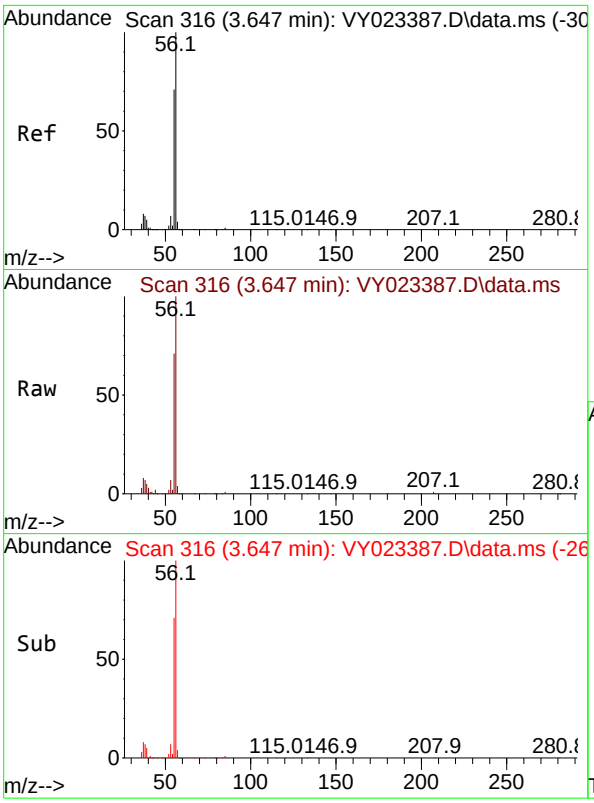


#12
1,1-Dichloroethene
Concen: 45.738 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 96 Resp: 252190

Ion	Ratio	Lower	Upper
96	100		
61	133.4	106.7	160.1
98	62.8	50.2	75.4

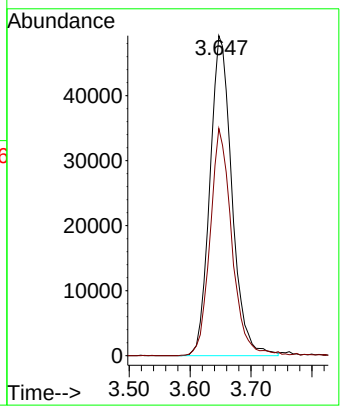




#13
Acrolein
Concen: 242.575 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 56 Resp: 12364

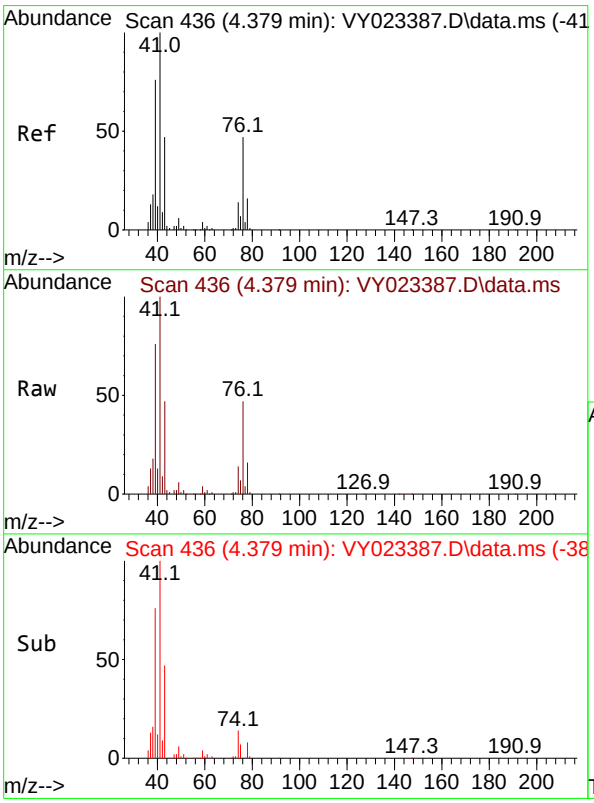
Ion	Ratio	Lower	Upper
56	100		
55	70.1	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

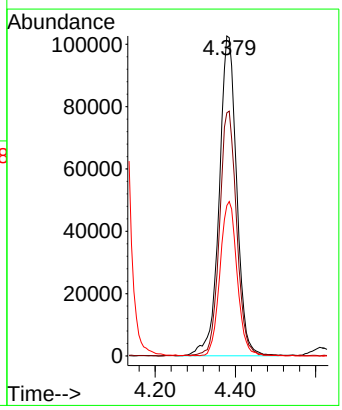
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

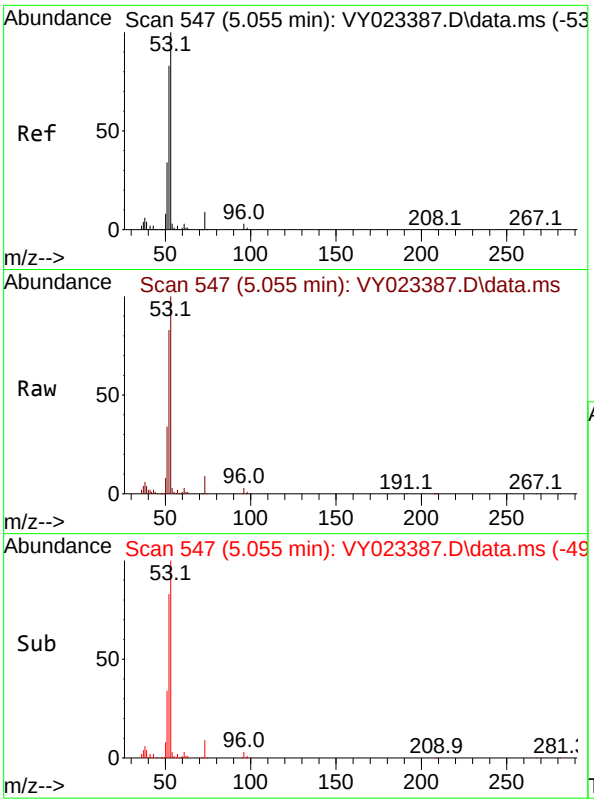


#14
Allyl chloride
Concen: 44.989 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 41 Resp: 310569

Ion	Ratio	Lower	Upper
41	100		
39	74.9	59.9	89.9
76	47.5	38.0	57.0

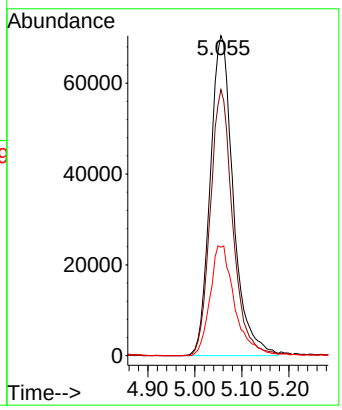




#15
Acrylonitrile
Concen: 219.075 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 53 Resp: 24066

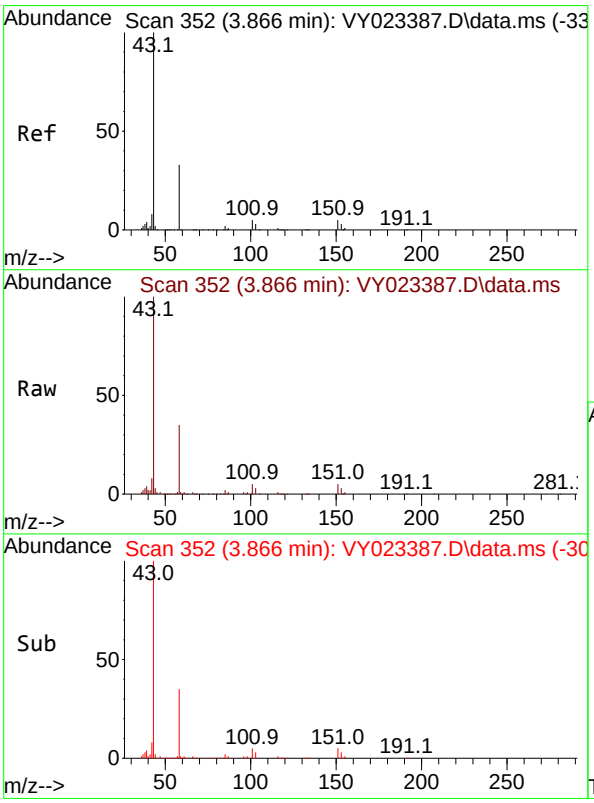
Ion	Ratio	Lower	Upper
53	100		
52	80.8	64.6	97.0
51	36.9	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

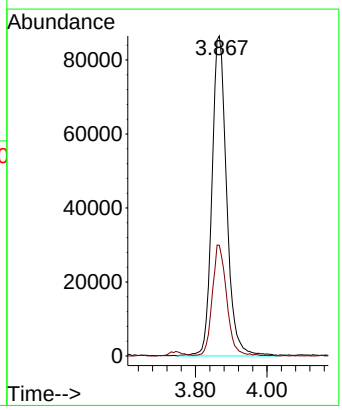
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

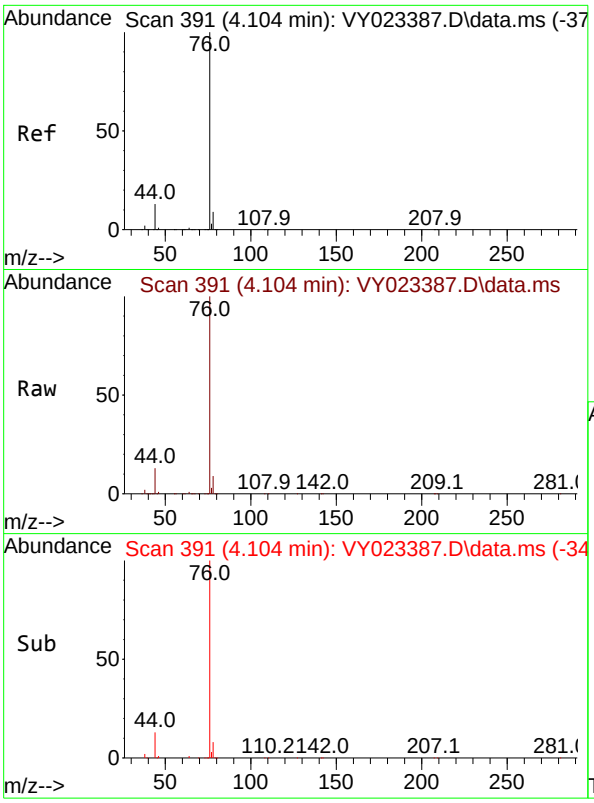


#16
Acetone
Concen: 214.955 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 247122

Ion	Ratio	Lower	Upper
43	100		
58	34.6	27.7	41.5

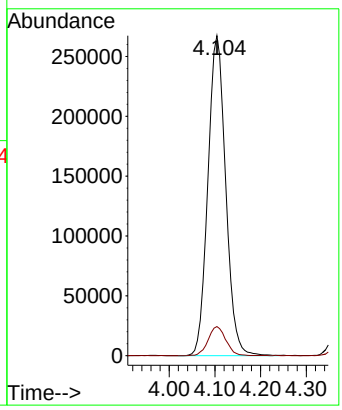




#17
Carbon Disulfide
Concen: 42.028 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 76 Resp: 72298

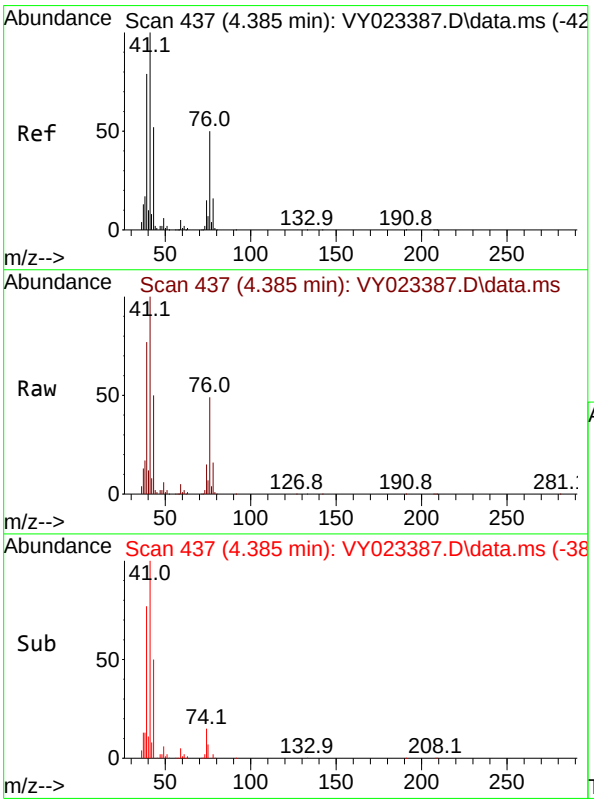
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

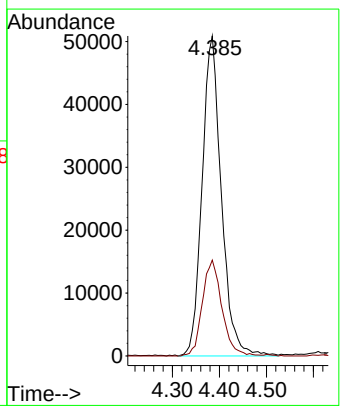
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

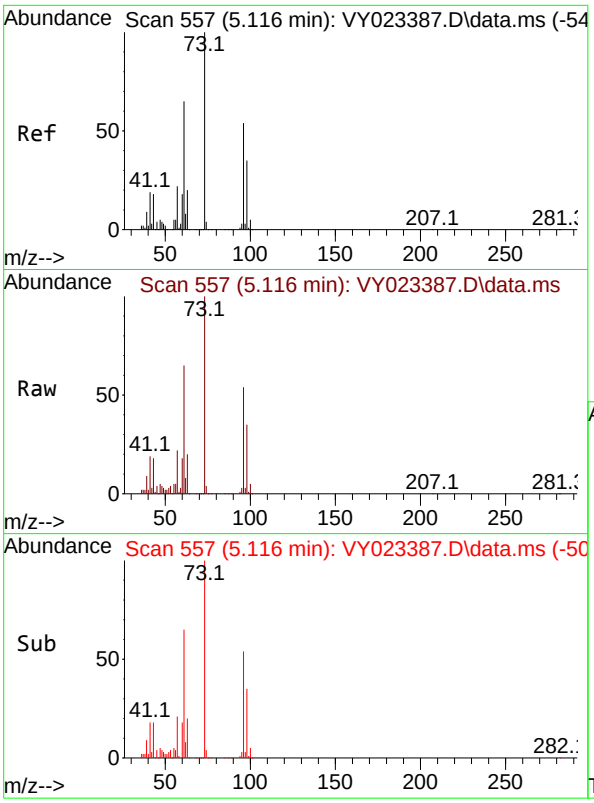


#18
Methyl Acetate
Concen: 49.563 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 144816

Ion	Ratio	Lower	Upper
43	100		
74	30.3	24.2	36.4

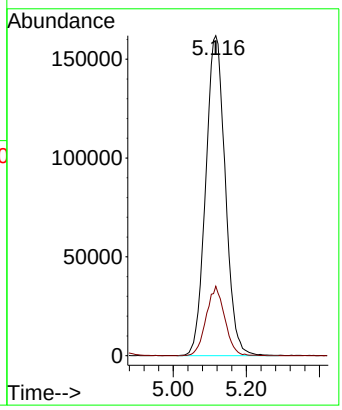




#19
Methyl tert-butyl Ether
Concen: 46.626 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 73 Resp: 60193

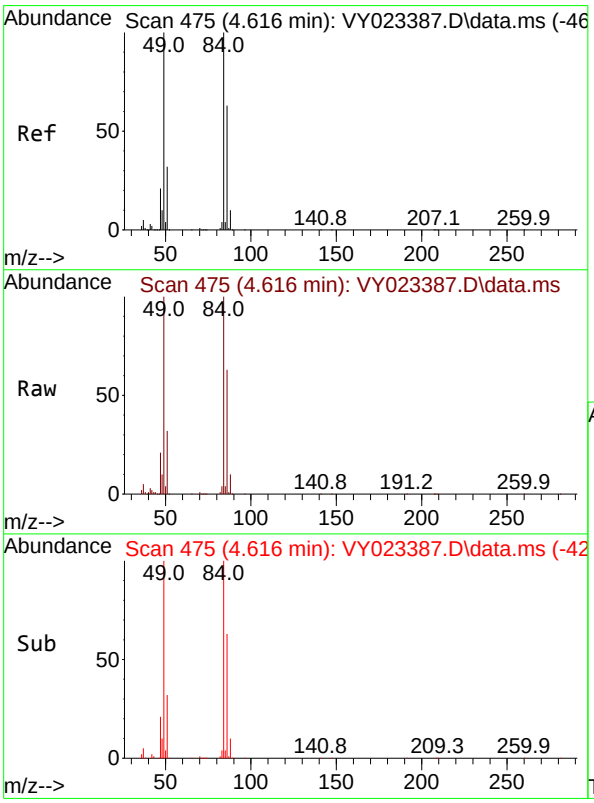
Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

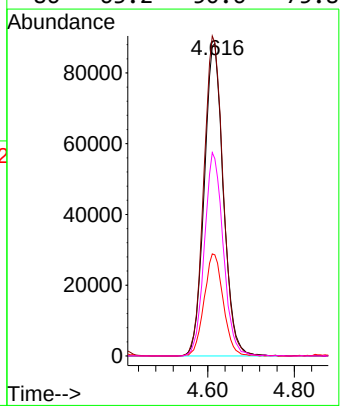
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

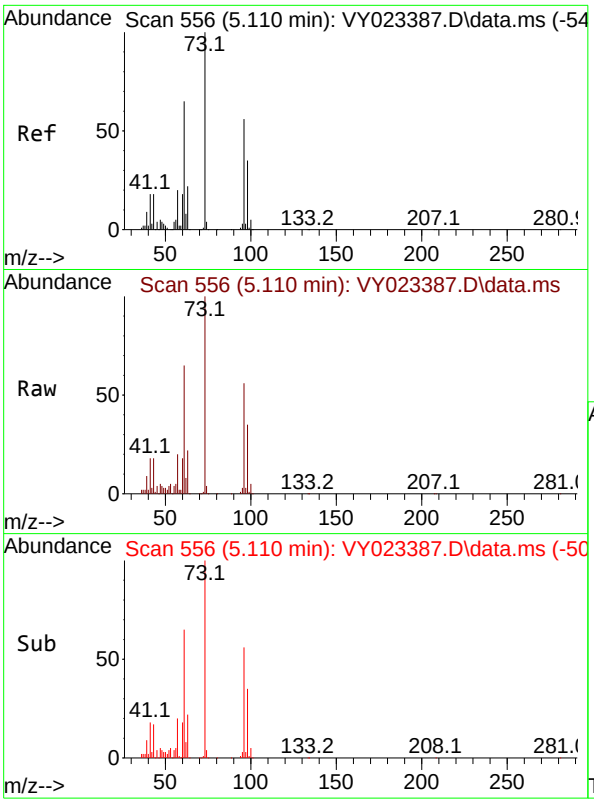


#20
Methylene Chloride
Concen: 43.409 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 84 Resp: 270612

Ion	Ratio	Lower	Upper
84	100		
49	100.3	80.2	120.4
51	32.4	25.9	38.9
86	63.2	50.6	75.8

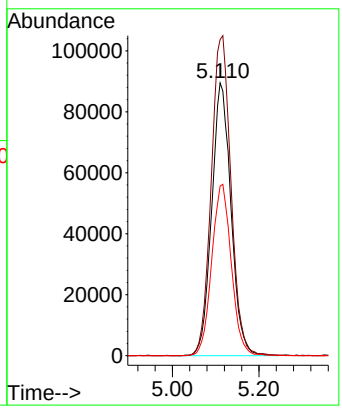




#21
trans-1,2-Dichloroethene
Concen: 45.256 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 96 Resp: 27751(

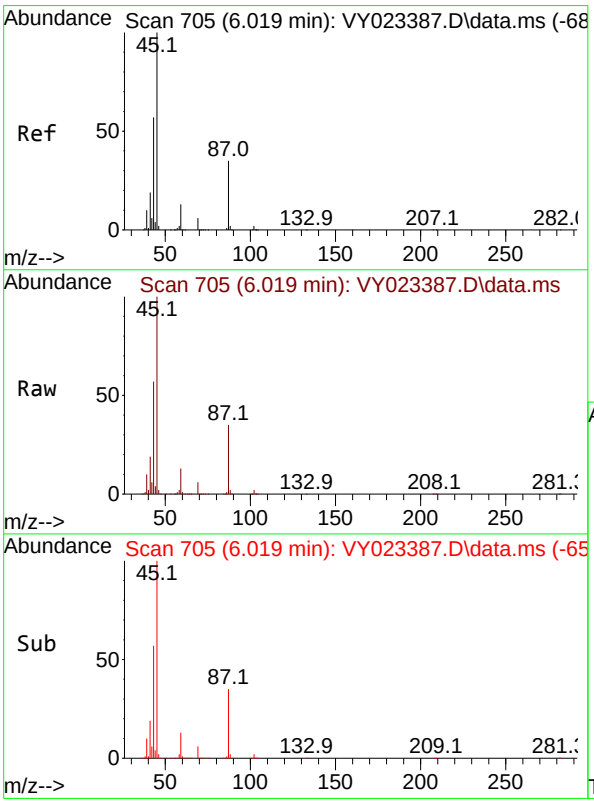
Ion	Ratio	Lower	Upper
96	100		
61	115.9	92.7	139.1
98	62.1	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

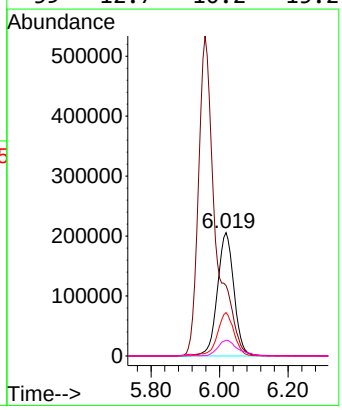
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

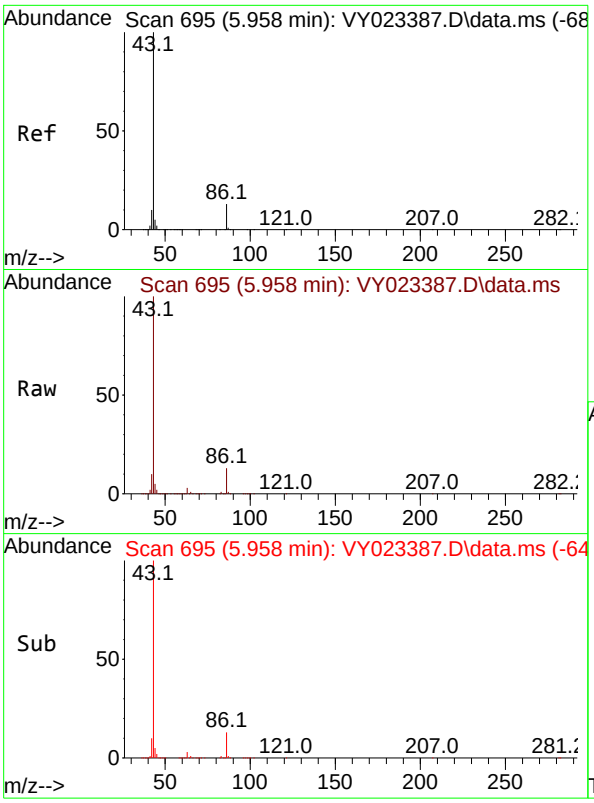


#22
Diisopropyl ether
Concen: 44.844 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 45 Resp: 686481

Ion	Ratio	Lower	Upper
45	100		
43	57.0	45.6	68.4
87	35.1	28.1	42.1
59	12.7	10.2	15.2

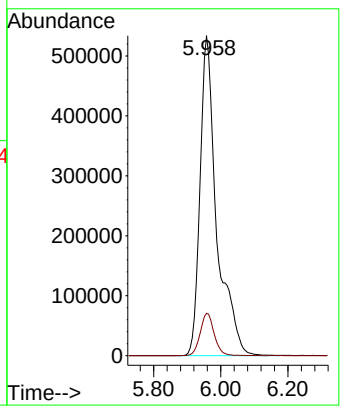




#23
Vinyl Acetate
Concen: 219.119 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 184378

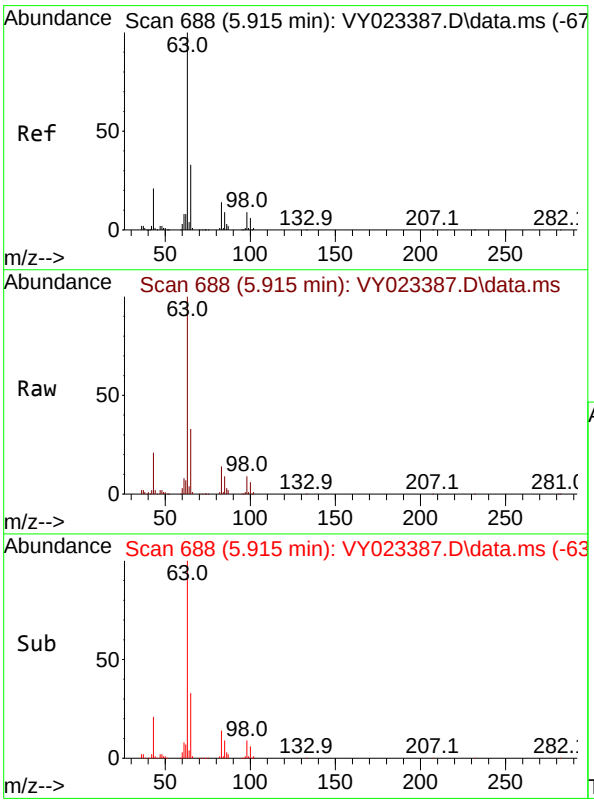
Ion	Ratio	Lower	Upper
43	100		
86	13.2	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

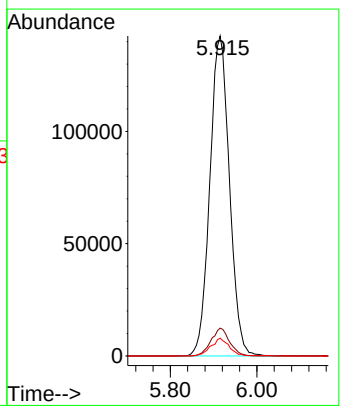
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

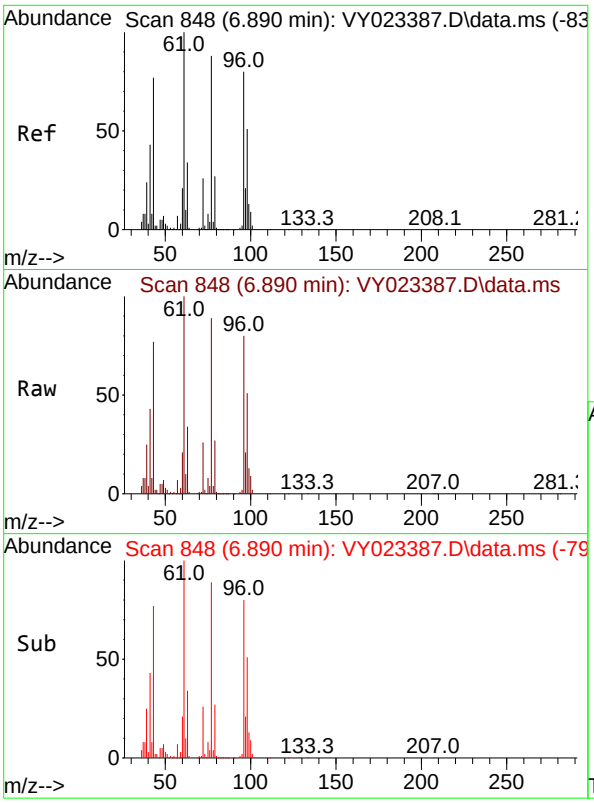


#24
1,1-Dichloroethane
Concen: 44.423 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 63 Resp: 448267

Ion	Ratio	Lower	Upper
63	100		
98	8.7	4.3	13.1
100	5.6	2.8	8.4





#25
2-Butanone
Concen: 218.327 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

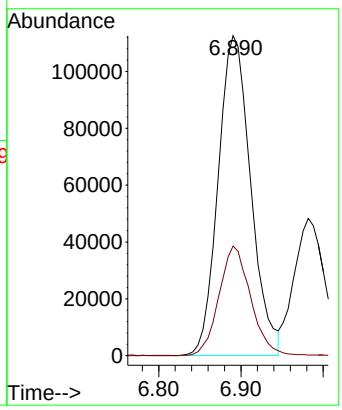
Tgt Ion: 43 Resp: 31023

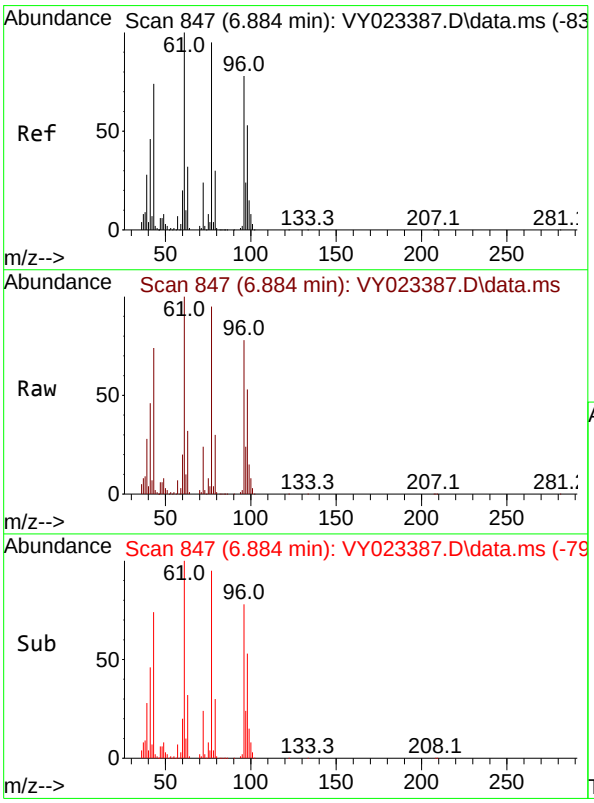
Ion	Ratio	Lower	Upper
43	100		
72	34.3	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

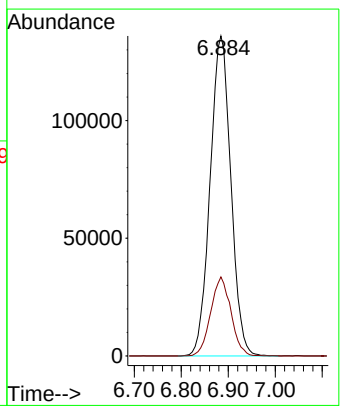


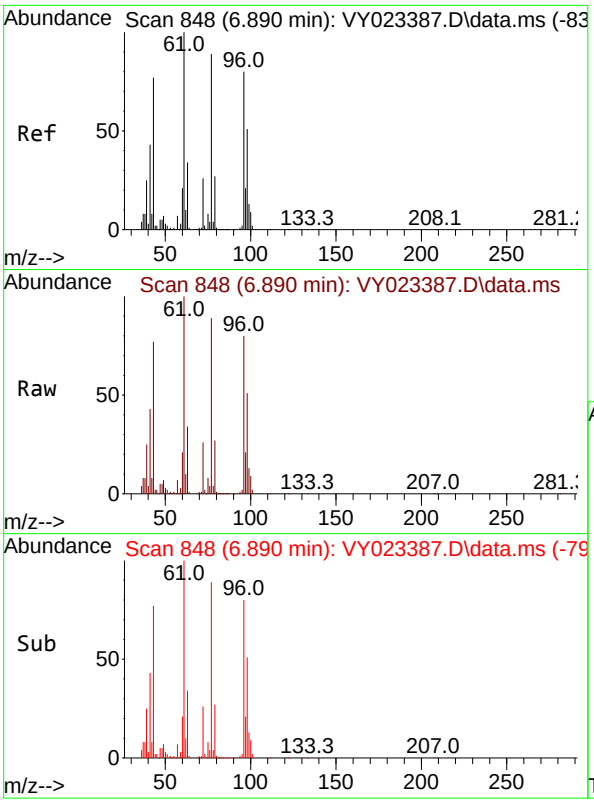


#26
2,2-Dichloropropane
Concen: 46.440 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 77 Resp: 416391

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.1	36.3





#27
cis-1,2-Dichloroethene
Concen: 46.010 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

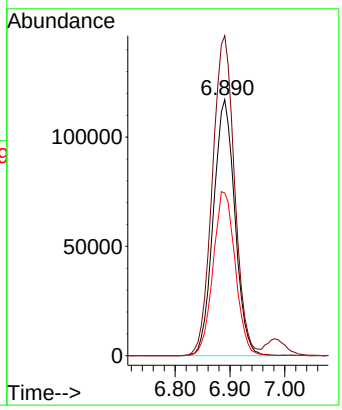
Tgt Ion: 96 Resp: 32002

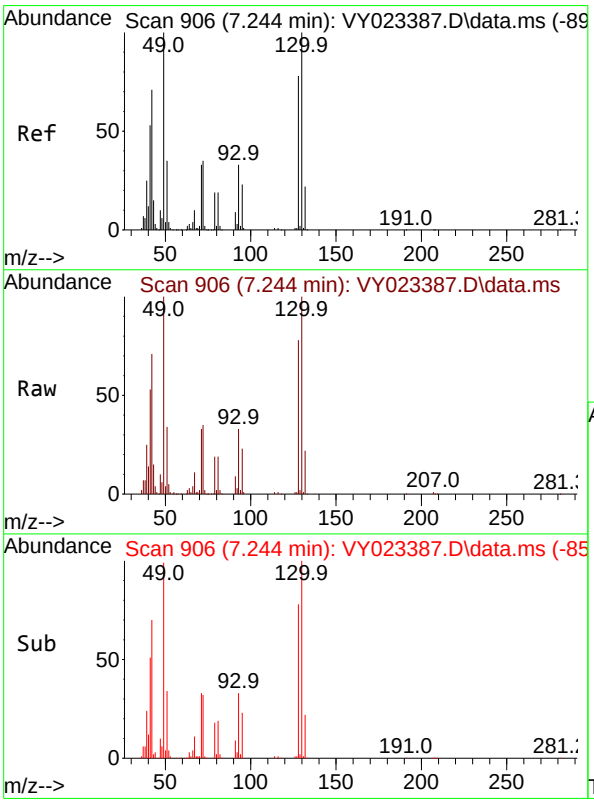
Ion	Ratio	Lower	Upper
96	100		
61	129.1	0.0	258.2
98	66.0	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

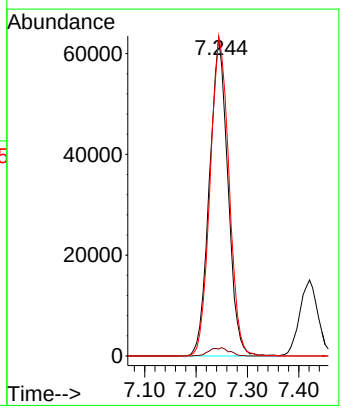


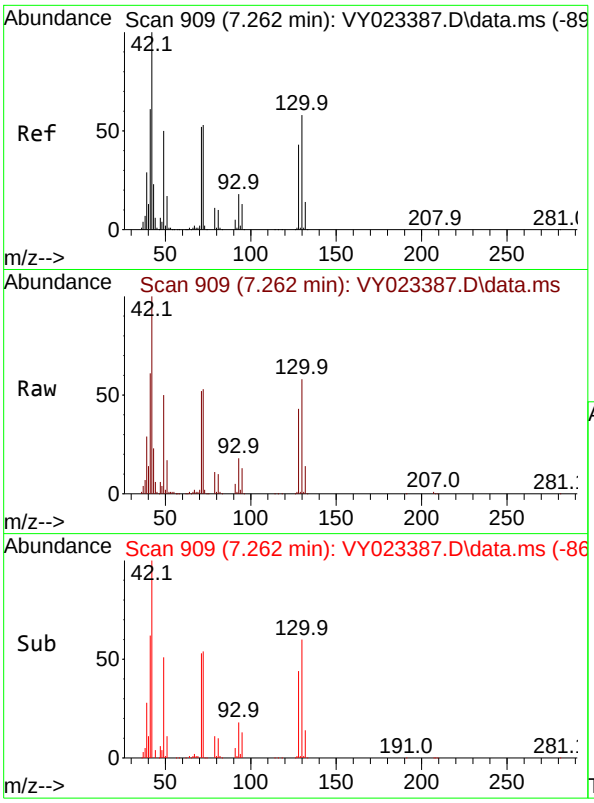


#28
Bromochloromethane
Concen: 40.211 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 49 Resp: 157414

Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	5.6
130	102.4	81.9	122.9

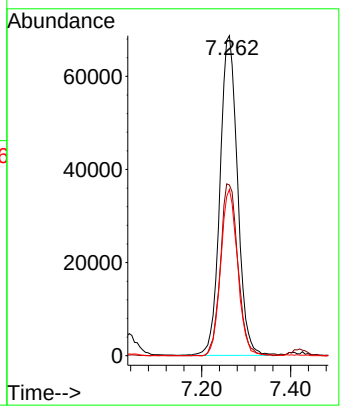




#29
Tetrahydrofuran
Concen: 222.653 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 42 Resp: 18778

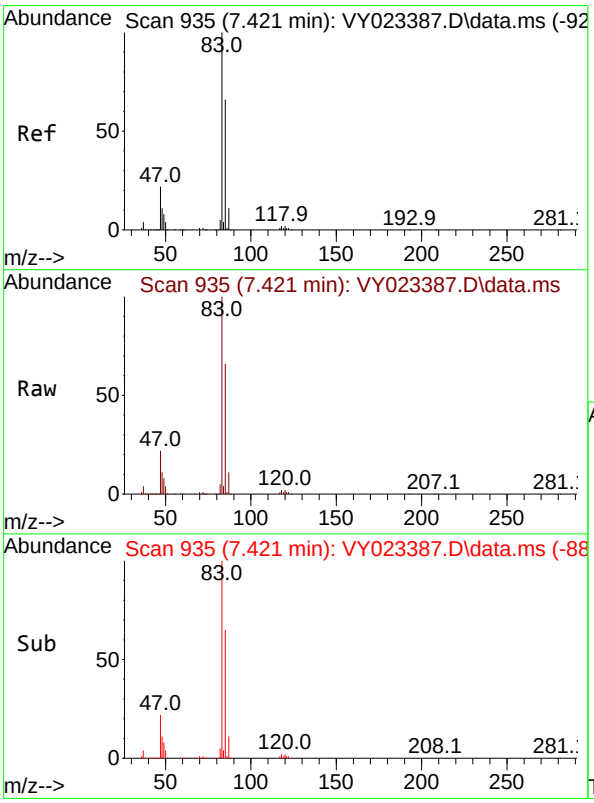
Ion	Ratio	Lower	Upper
42	100		
72	53.8	43.0	64.6
71	50.1	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

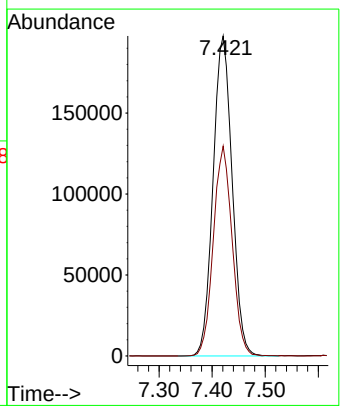
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

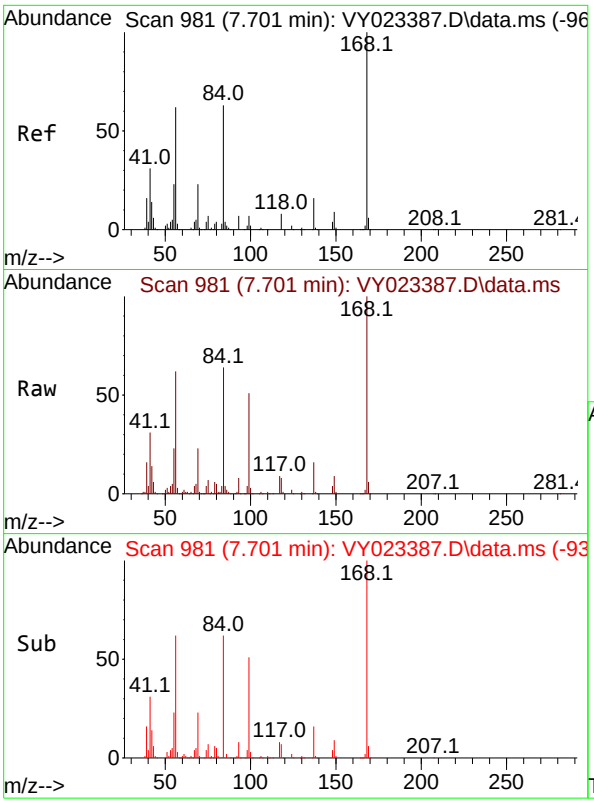


#30
Chloroform
Concen: 45.316 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 83 Resp: 493098

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.5	78.7

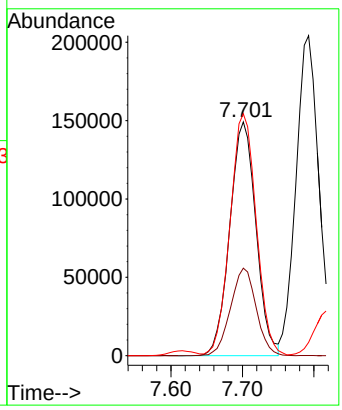




#31
Cyclohexane
Concen: 42.602 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 56 Resp: 37964

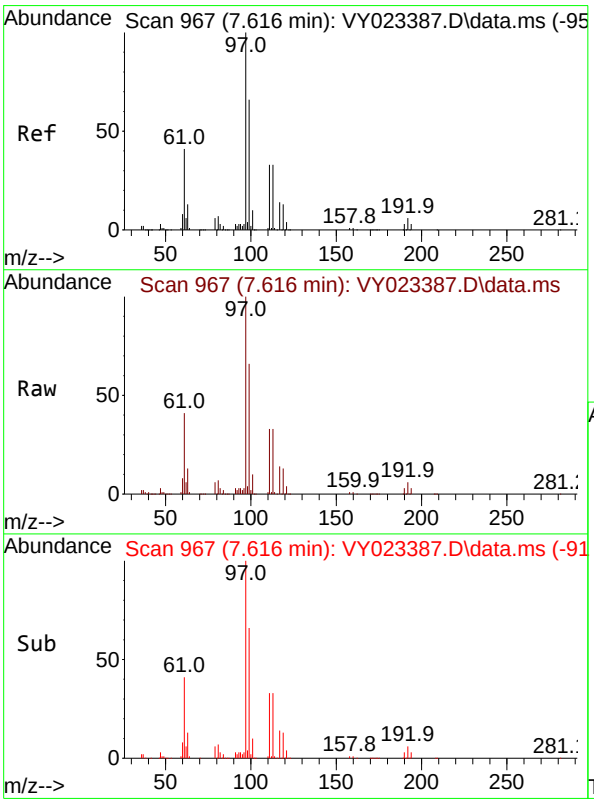
Ion	Ratio	Lower	Upper
56	100		
69	37.5	30.0	45.0
84	101.5	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

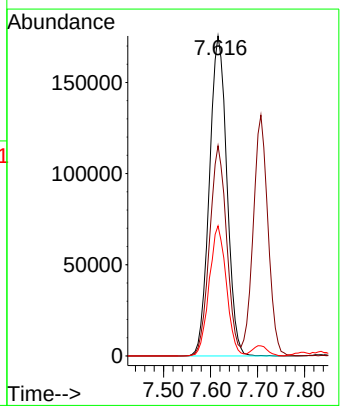
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

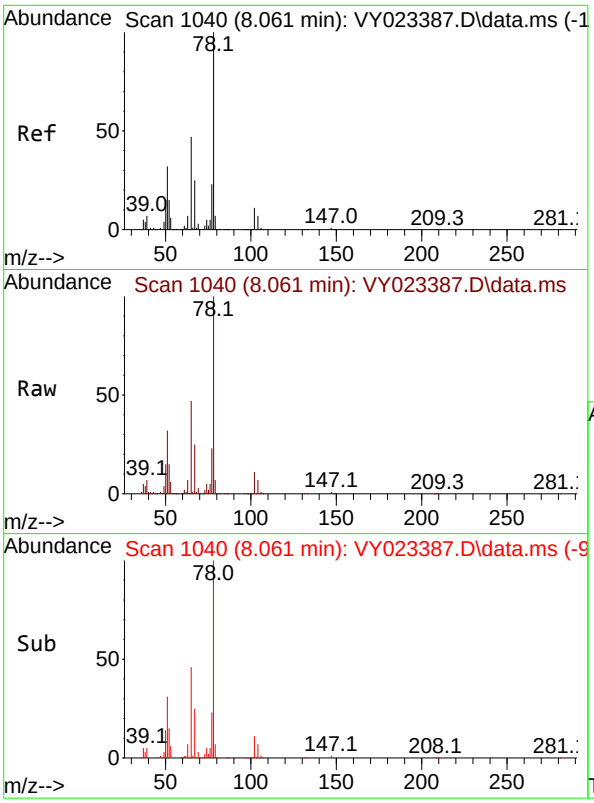


#32
1,1,1-Trichloroethane
Concen: 46.347 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 97 Resp: 452713

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.2
61	39.9	31.9	47.9

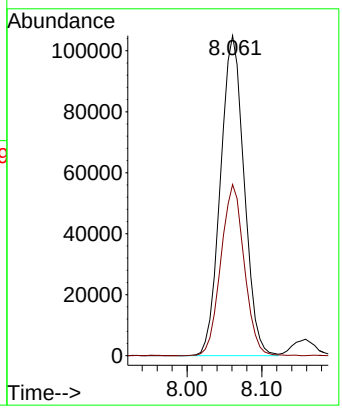




#33
1,2-Dichloroethane-d4
Concen: 45.240 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 65 Resp: 23129

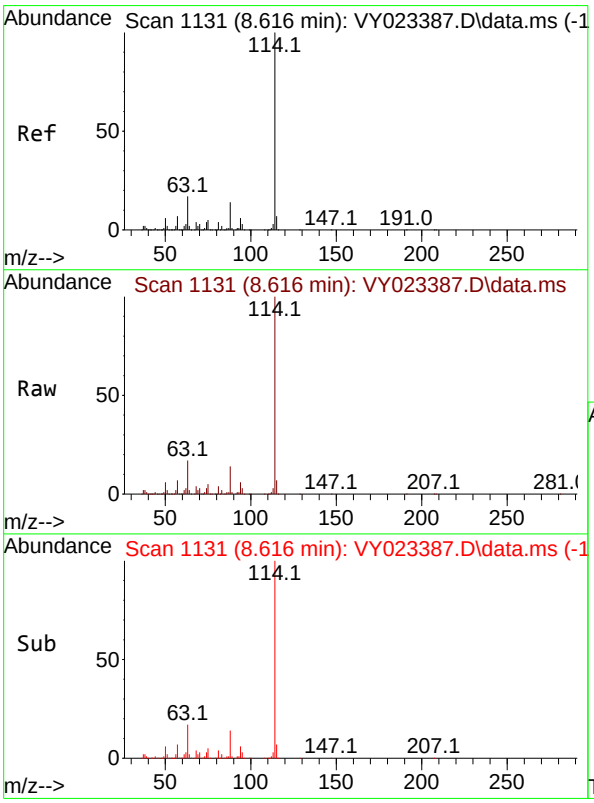
Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

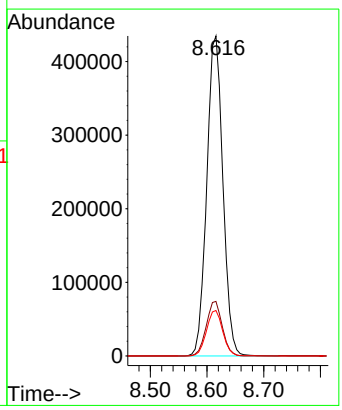
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

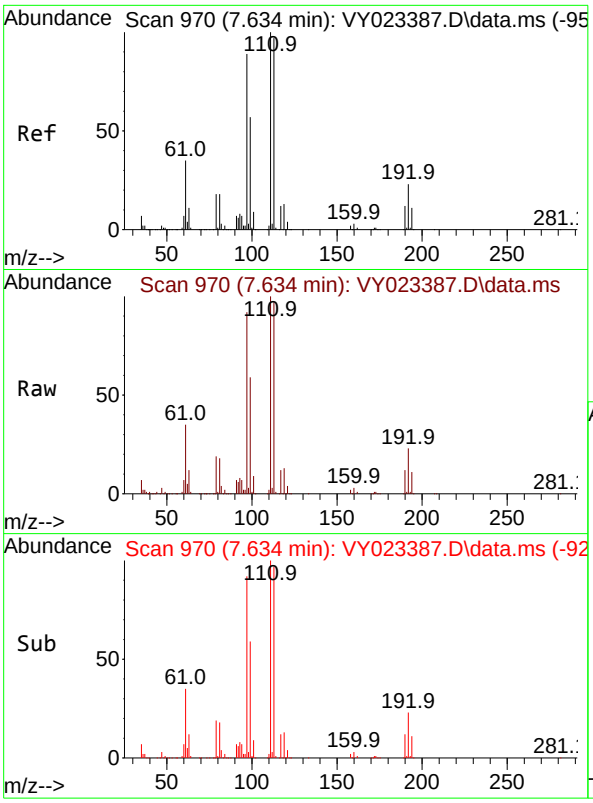


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:114 Resp: 858767

Ion	Ratio	Lower	Upper
114	100		
63	17.1	0.0	34.2
88	14.2	0.0	28.4

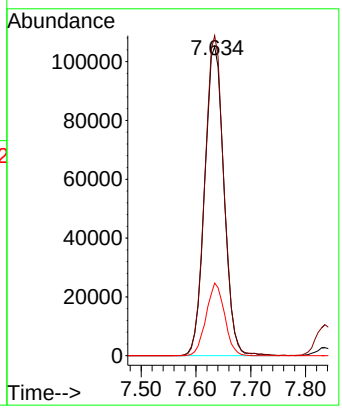




#35
Dibromofluoromethane
Concen: 49.185 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:113 Resp: 25633

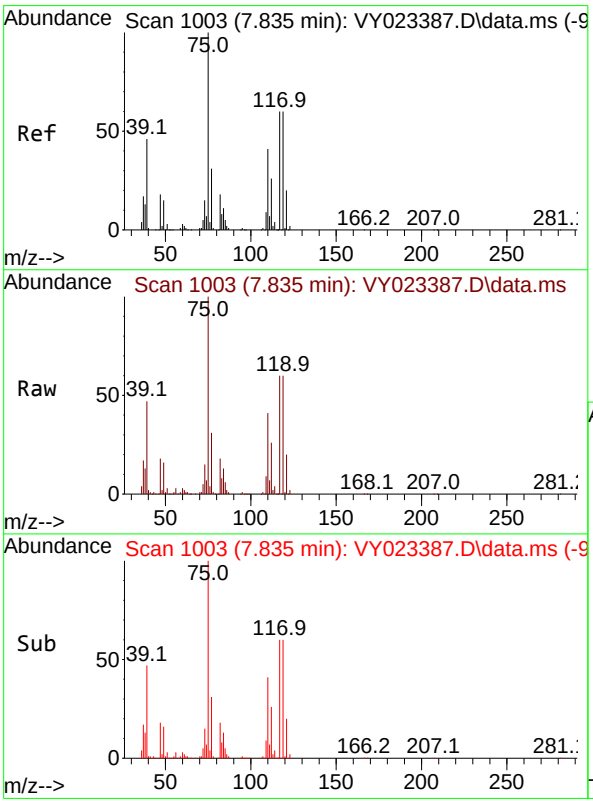
Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.6
192	22.5	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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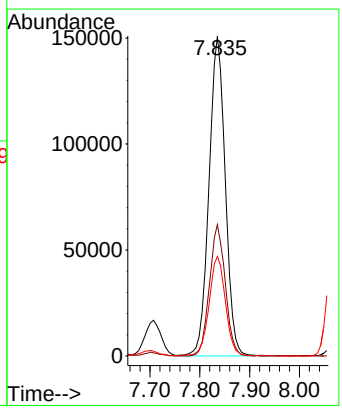
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

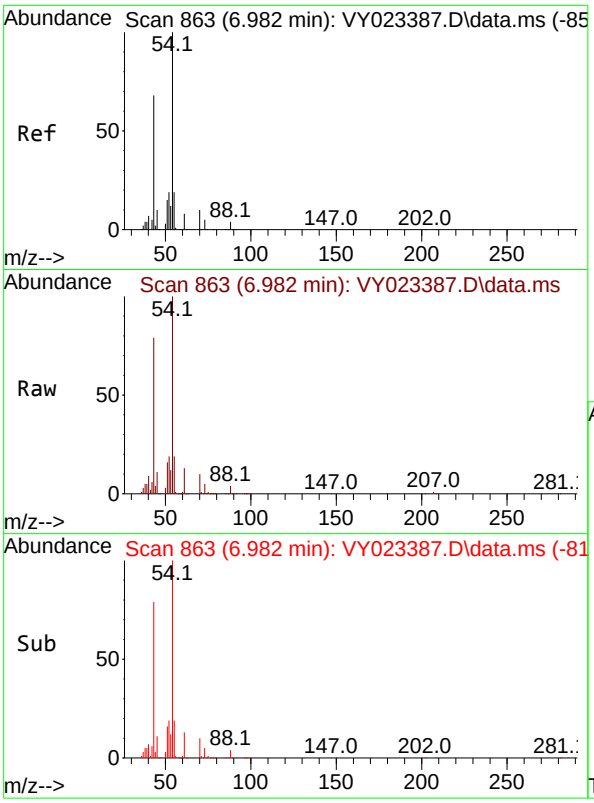


#36
1,1-Dichloropropene
Concen: 46.424 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 341353

Ion	Ratio	Lower	Upper
75	100		
110	39.8	19.9	59.7
77	31.3	25.0	37.6

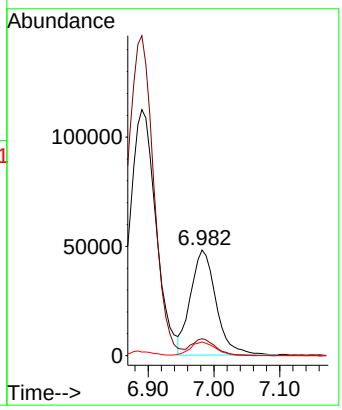




#37
Ethyl Acetate
Concen: 44.394 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 12905

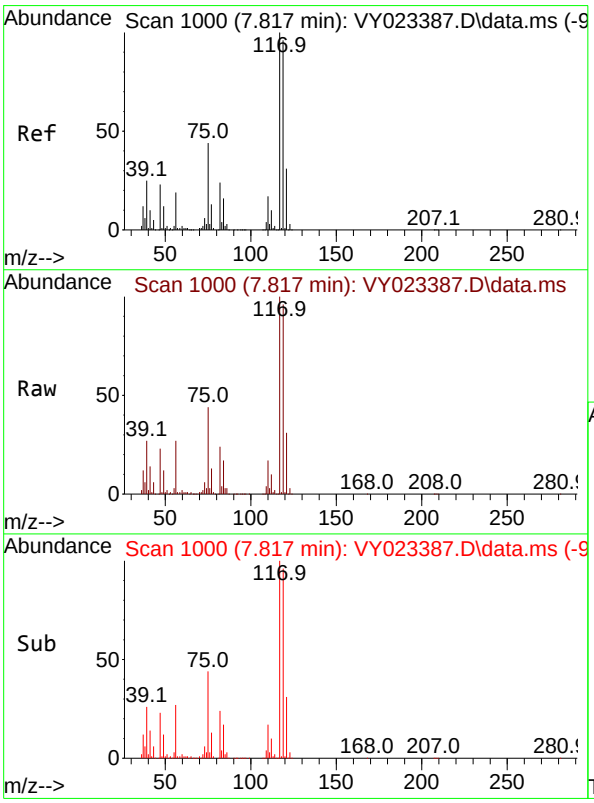
Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.8	17.8
70	13.1	10.5	15.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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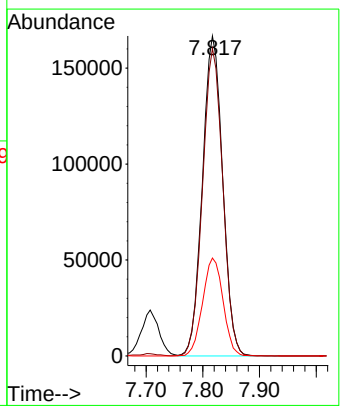
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

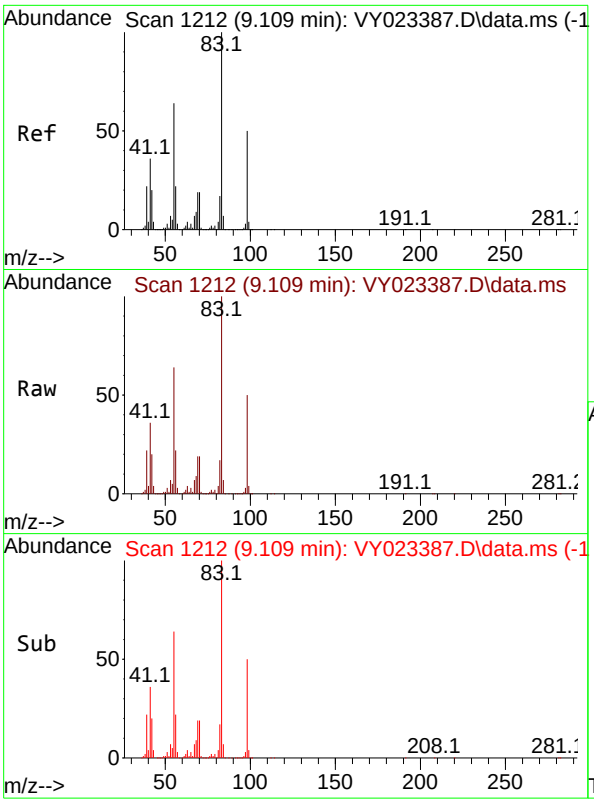


#38
Carbon Tetrachloride
Concen: 48.374 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:117 Resp: 413187

Ion	Ratio	Lower	Upper
117	100		
119	96.0	76.8	115.2
121	30.6	24.5	36.7





#39
Methylcyclohexane
Concen: 48.113 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

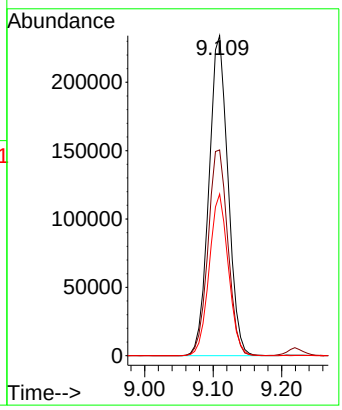
Tgt Ion: 83 Resp: 45295

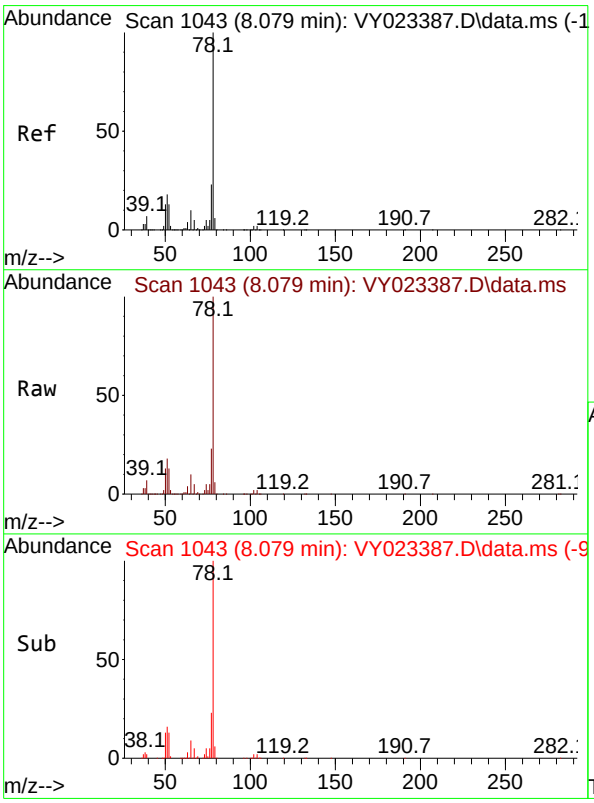
Ion	Ratio	Lower	Upper
83	100		
55	64.3	51.4	77.2
98	50.5	40.4	60.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

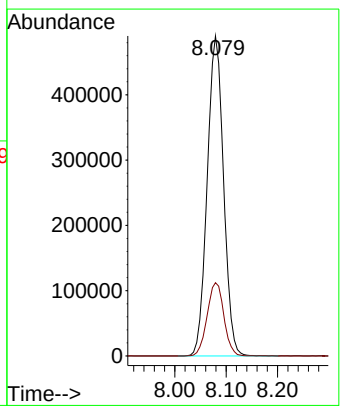


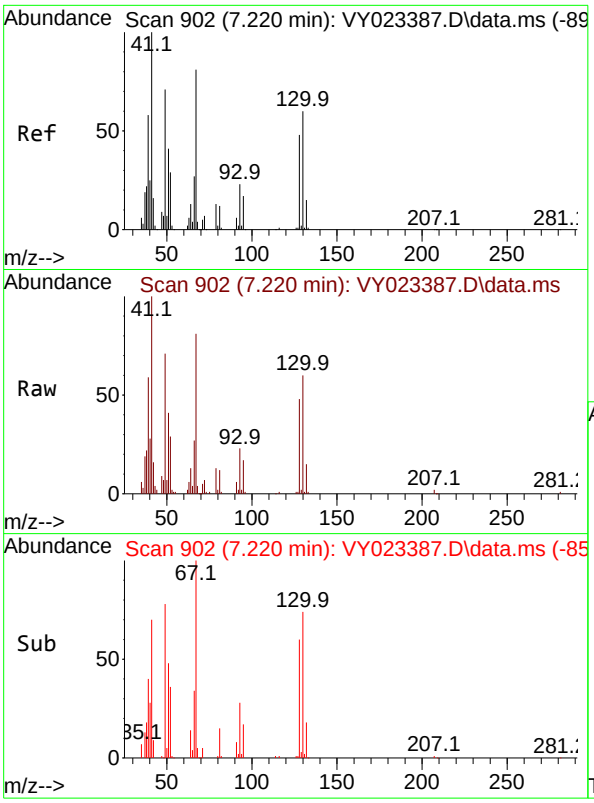


#40
Benzene
Concen: 47.154 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 78 Resp: 1080883

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.3	27.5

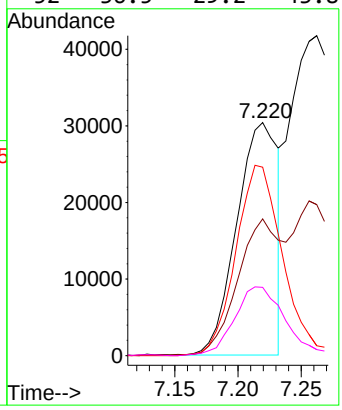




#41
Methacrylonitrile
Concen: 45.399 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 41 Resp: 6854

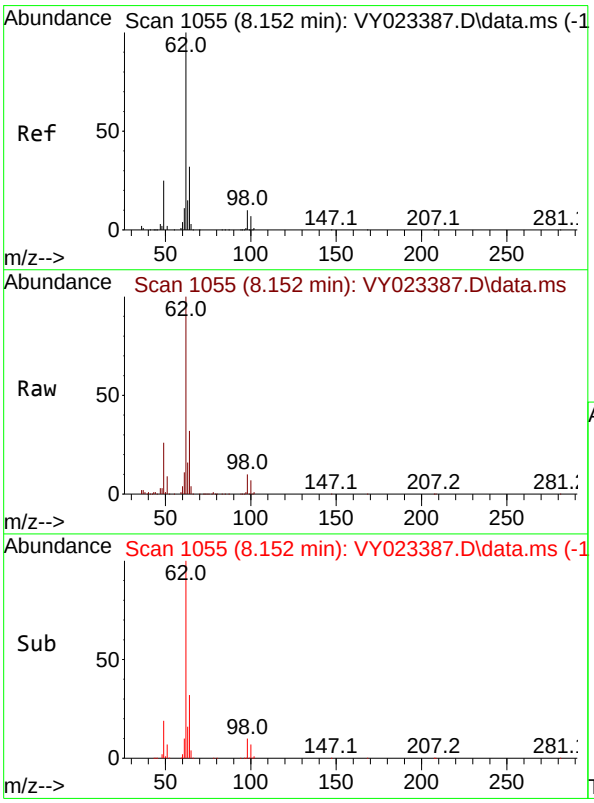
Ion	Ratio	Lower	Upper
41	100		
39	65.3	52.2	78.4
67	93.6	74.9	112.3
52	36.5	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

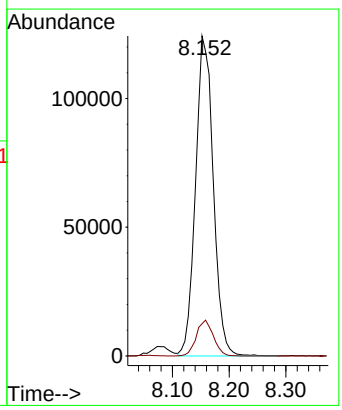
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

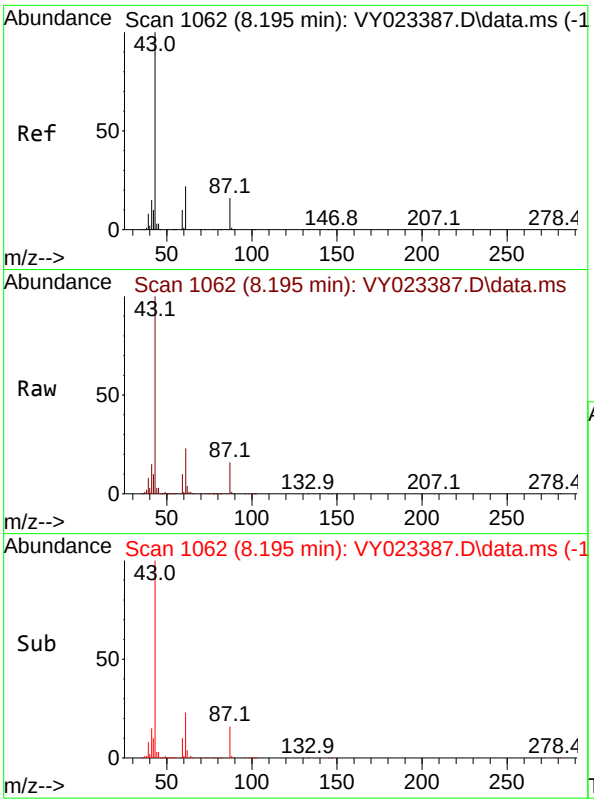


#42
1,2-Dichloroethane
Concen: 46.350 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 62 Resp: 270387

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	21.6





#43
Isopropyl Acetate
Concen: 45.811 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

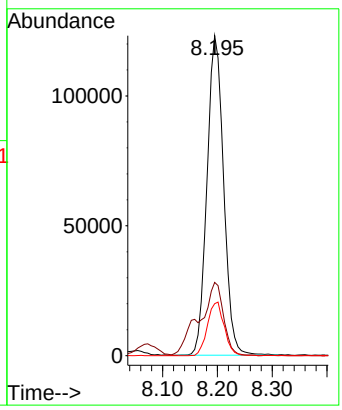
Tgt Ion: 43 Resp: 25904

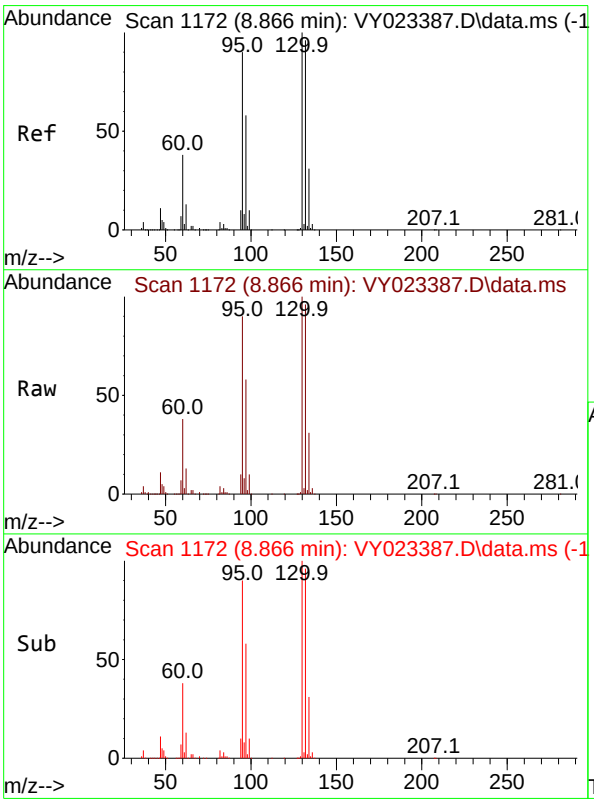
Ion	Ratio	Lower	Upper
43	100		
61	22.6	18.1	27.1
87	16.9	13.5	20.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

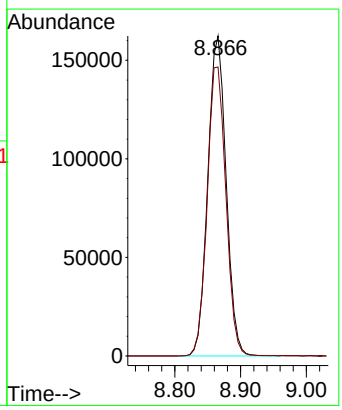


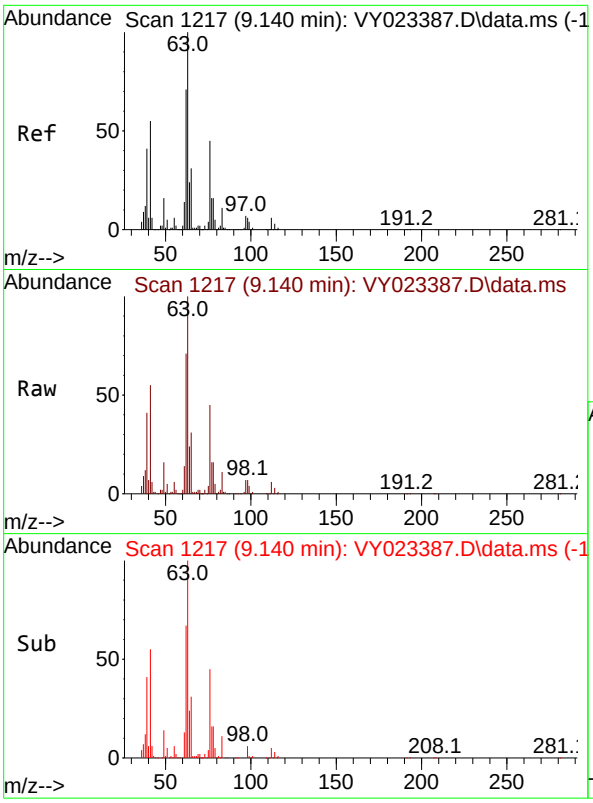


#44
Trichloroethene
Concen: 48.982 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:130 Resp: 315104

Ion	Ratio	Lower	Upper
130	100		
95	90.3	0.0	180.6

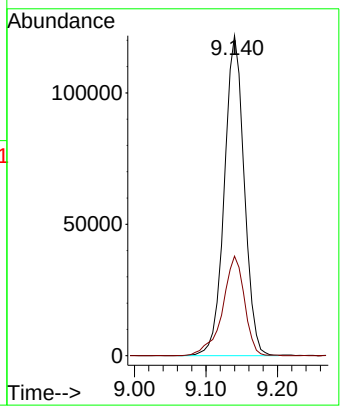




#45
1,2-Dichloropropane
Concen: 45.555 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 63 Resp: 23497

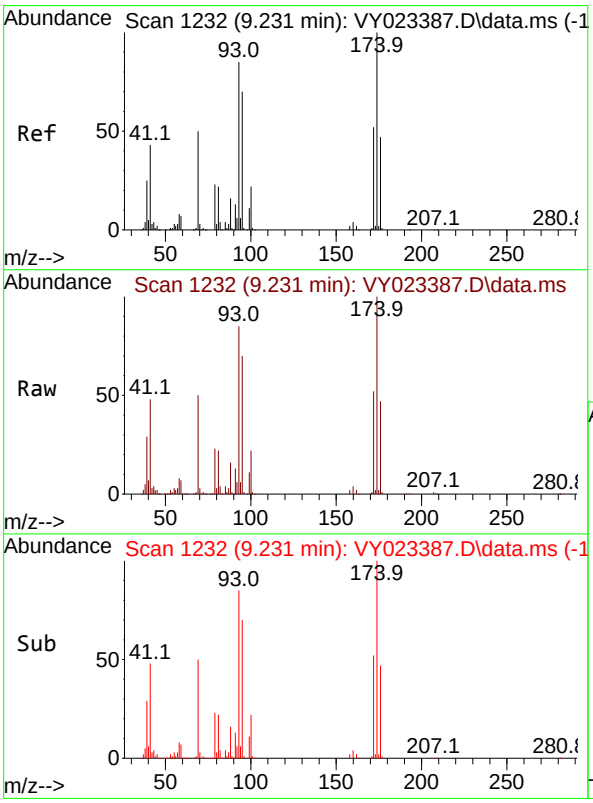
Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

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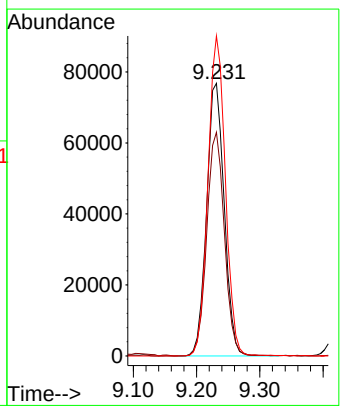
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

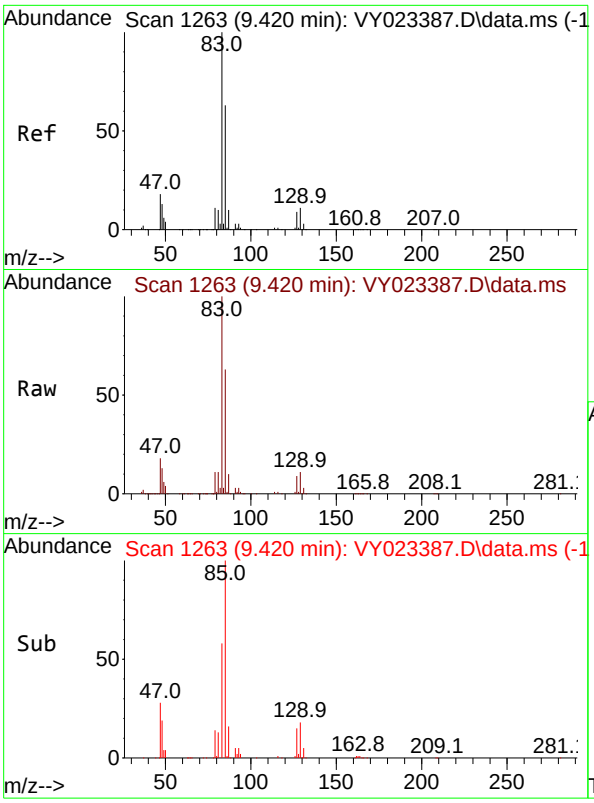


#46
Dibromomethane
Concen: 47.198 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 93 Resp: 148914

Ion	Ratio	Lower	Upper
93	100		
95	81.7	65.4	98.0
174	116.1	92.9	139.3

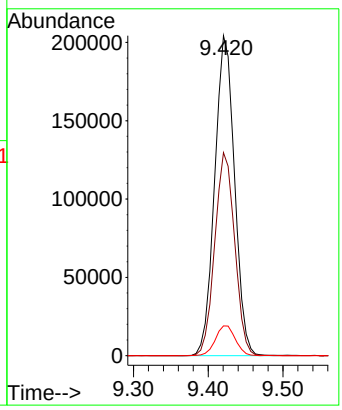




#47
Bromodichloromethane
Concen: 47.482 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 83 Resp: 37708

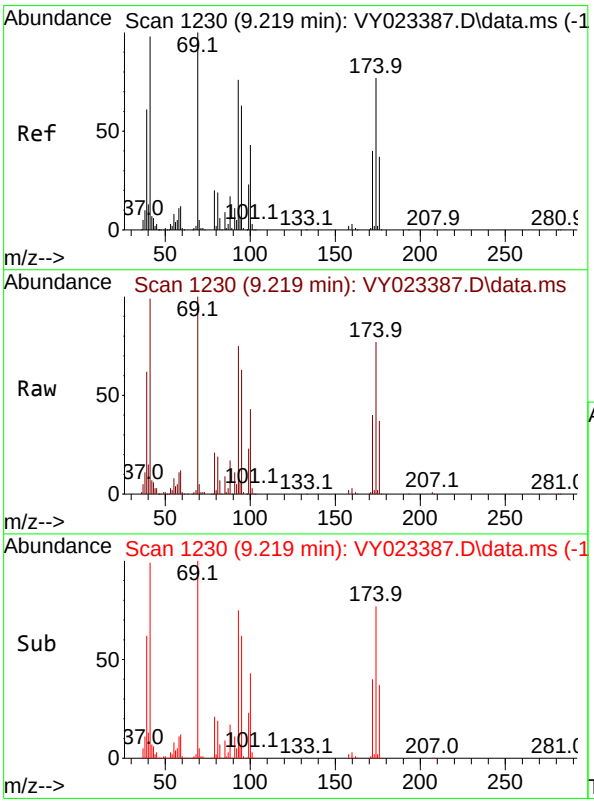
Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.8	76.2
127	9.3	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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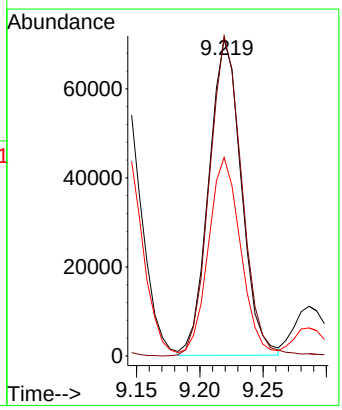
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

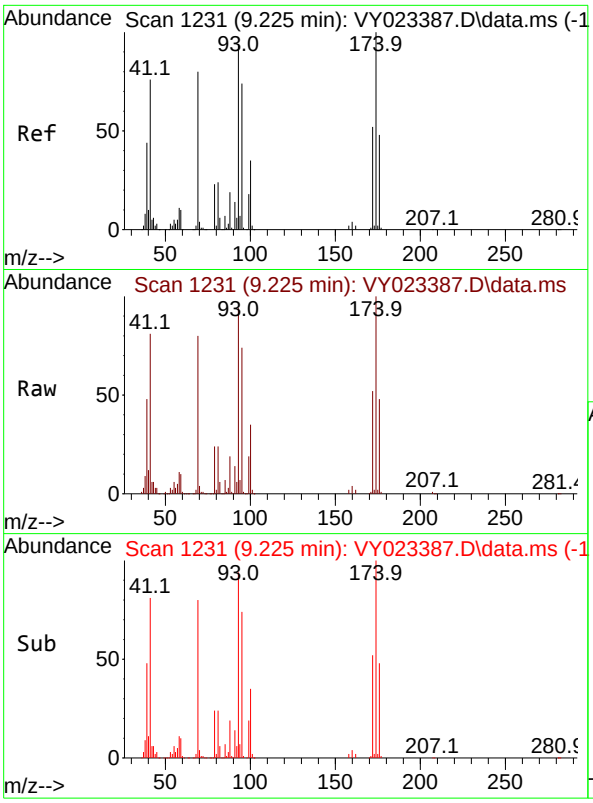


#48
Methyl methacrylate
Concen: 48.027 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 41 Resp: 126732

Ion	Ratio	Lower	Upper
41	100		
69	101.2	81.0	121.4
39	60.3	48.2	72.4





#49
1,4-Dioxane
Concen: 1042.312 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

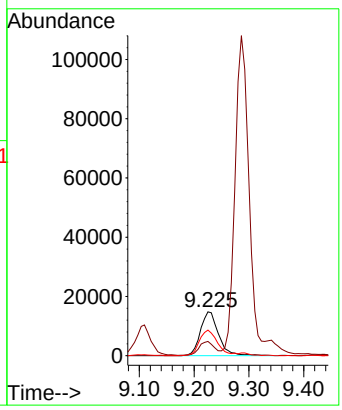
Tgt Ion: 88 Resp: 3405

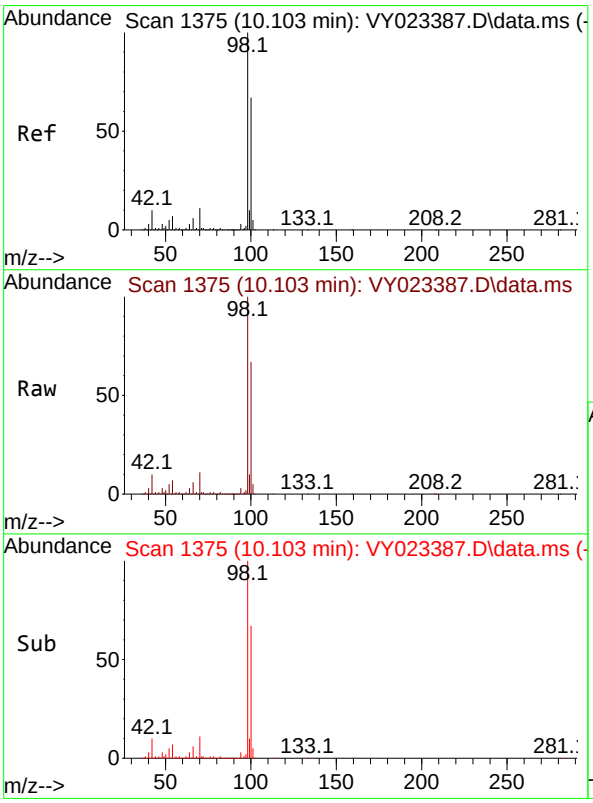
Ion	Ratio	Lower	Upper
88	100		
43	27.3	21.8	32.8
58	58.5	46.8	70.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

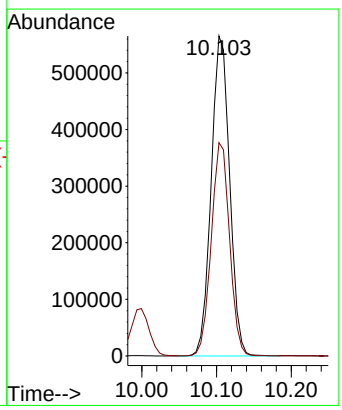


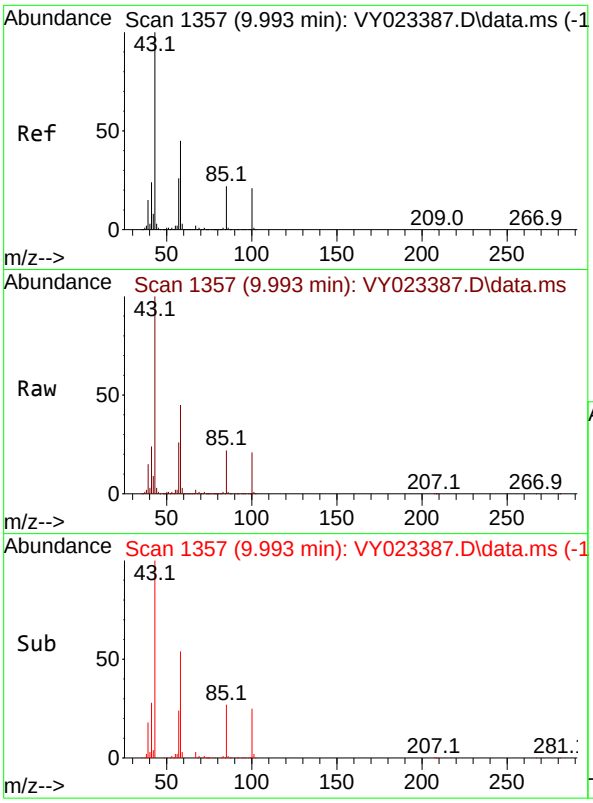


#50
Toluene-d8
Concen: 49.334 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 98 Resp: 969649

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4

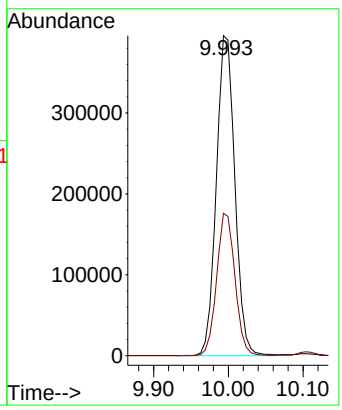




#51
4-Methyl-2-Pentanone
Concen: 235.772 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 68287

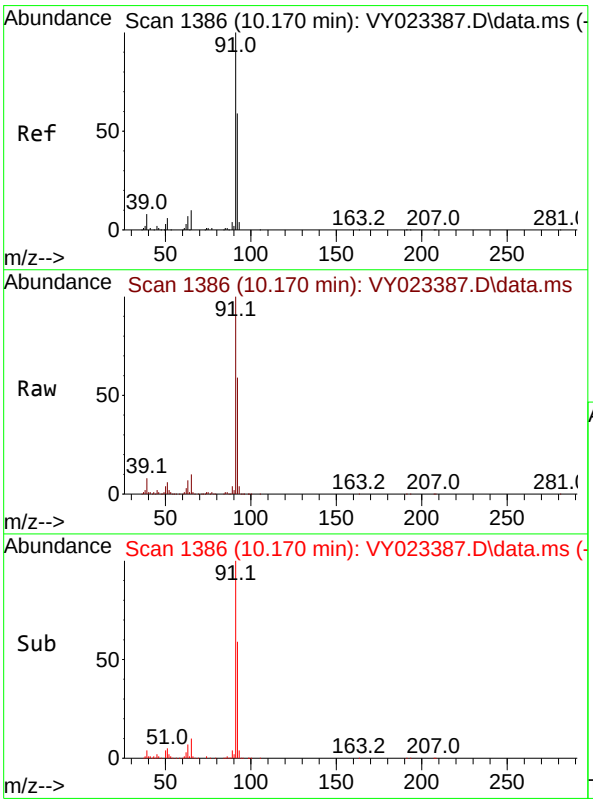
Ion	Ratio	Lower	Upper
43	100		
58	44.1	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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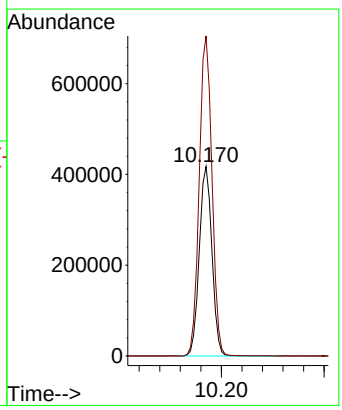
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

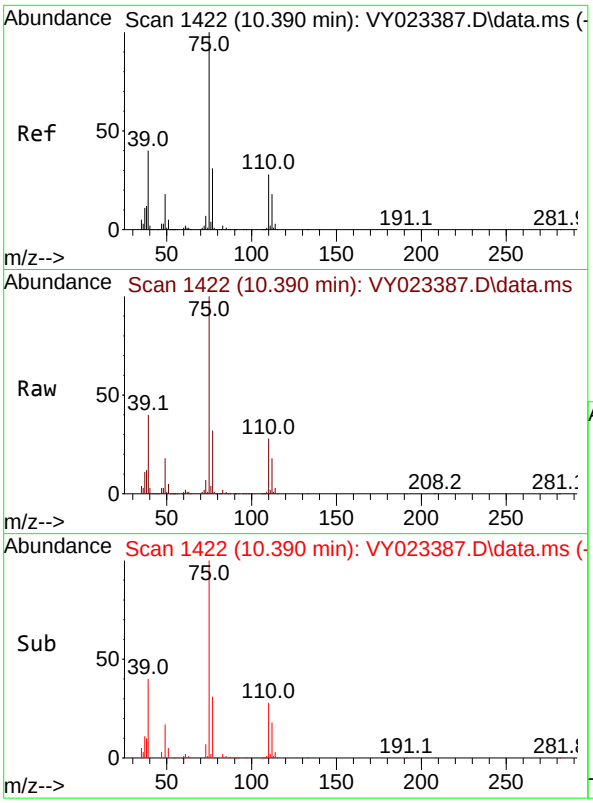


#52
Toluene
Concen: 48.824 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 92 Resp: 710404

Ion	Ratio	Lower	Upper
92	100		
91	170.5	136.4	204.6

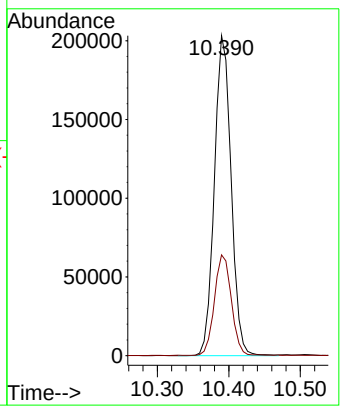




#53
t-1,3-Dichloropropene
Concen: 48.438 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 33039

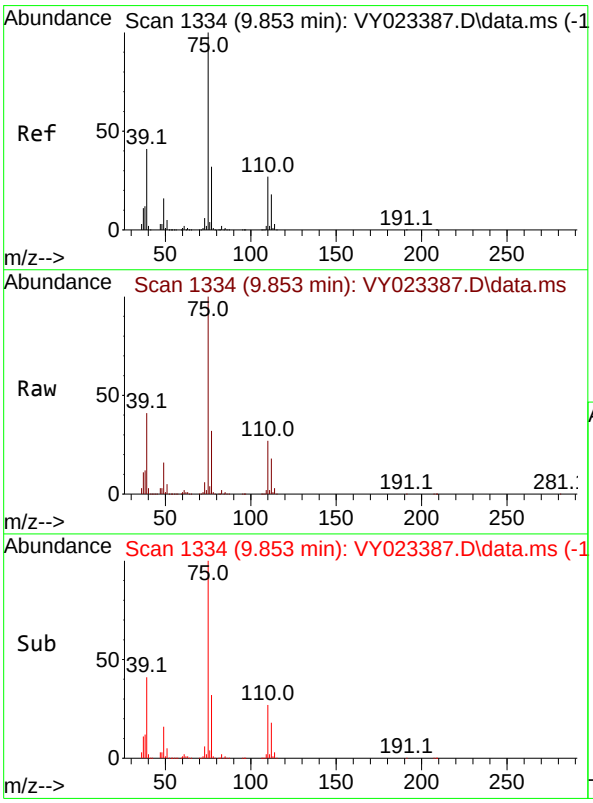
Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

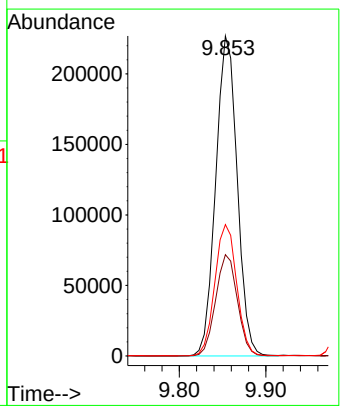
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

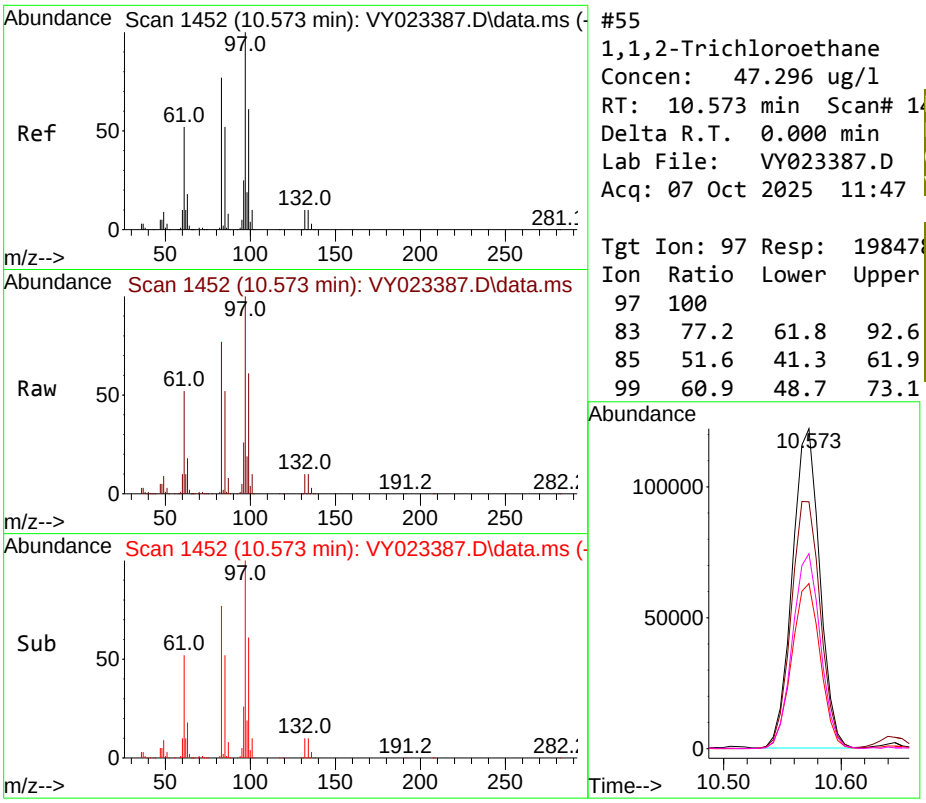


#54
cis-1,3-Dichloropropene
Concen: 47.910 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 390619

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0
39	41.0	32.8	49.2





#55
1,1,2-Trichloroethane
Concen: 47.296 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

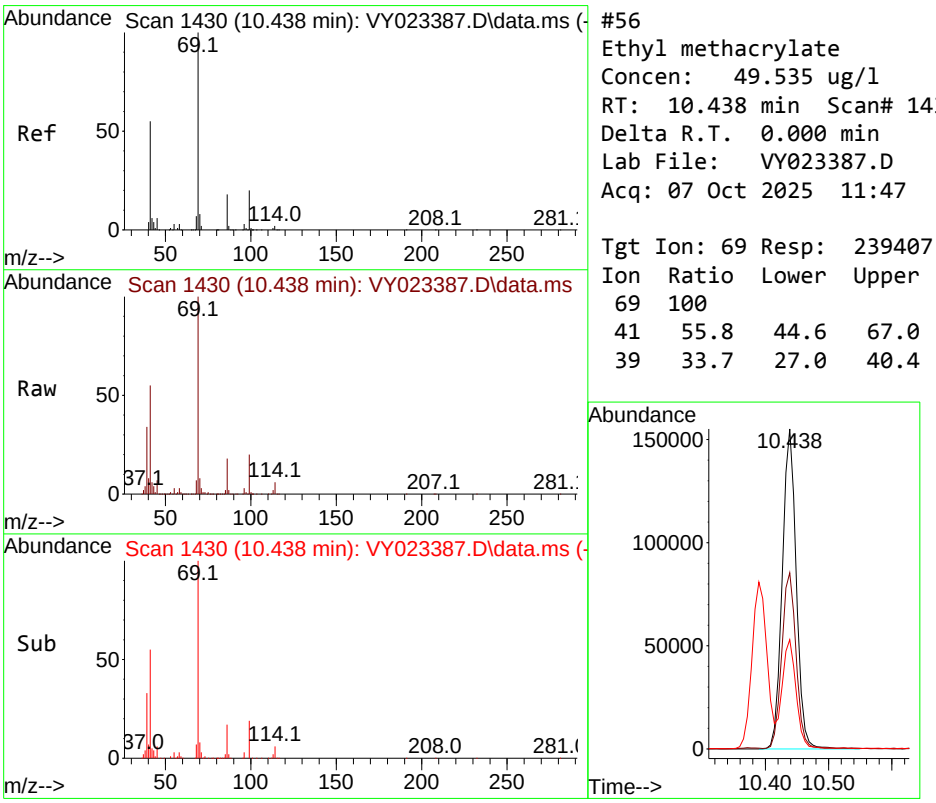
Tgt Ion: 97 Resp: 19847

Ion	Ratio	Lower	Upper
97	100		
83	77.2	61.8	92.6
85	51.6	41.3	61.9
99	60.9	48.7	73.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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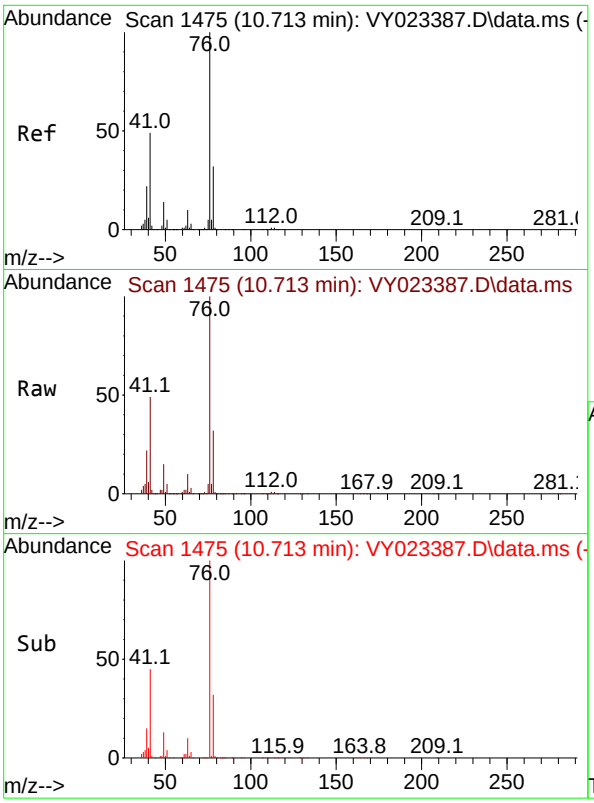
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#56
Ethyl methacrylate
Concen: 49.535 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 69 Resp: 239407

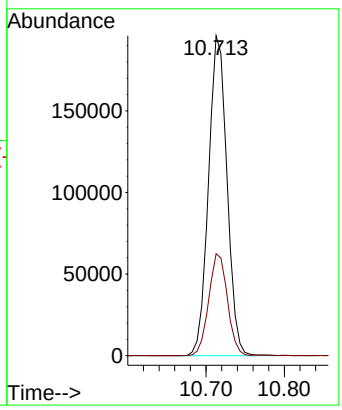
Ion	Ratio	Lower	Upper
69	100		
41	55.8	44.6	67.0
39	33.7	27.0	40.4



#57
1,3-Dichloropropane
Concen: 47.301 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 76 Resp: 32127(

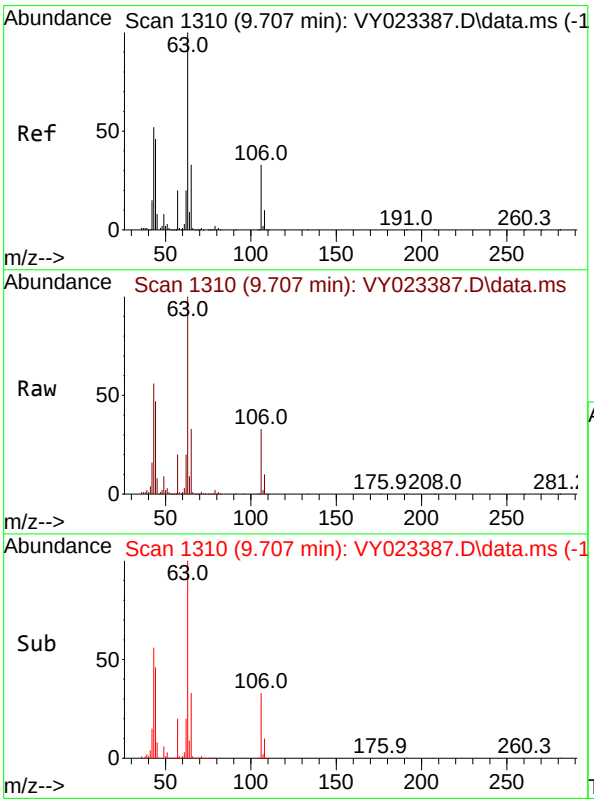
Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

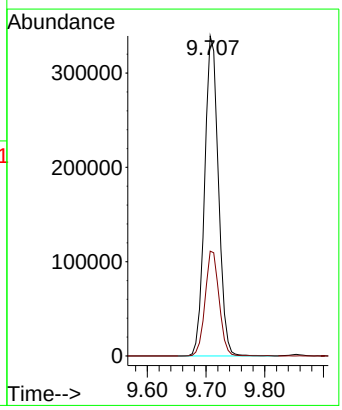
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

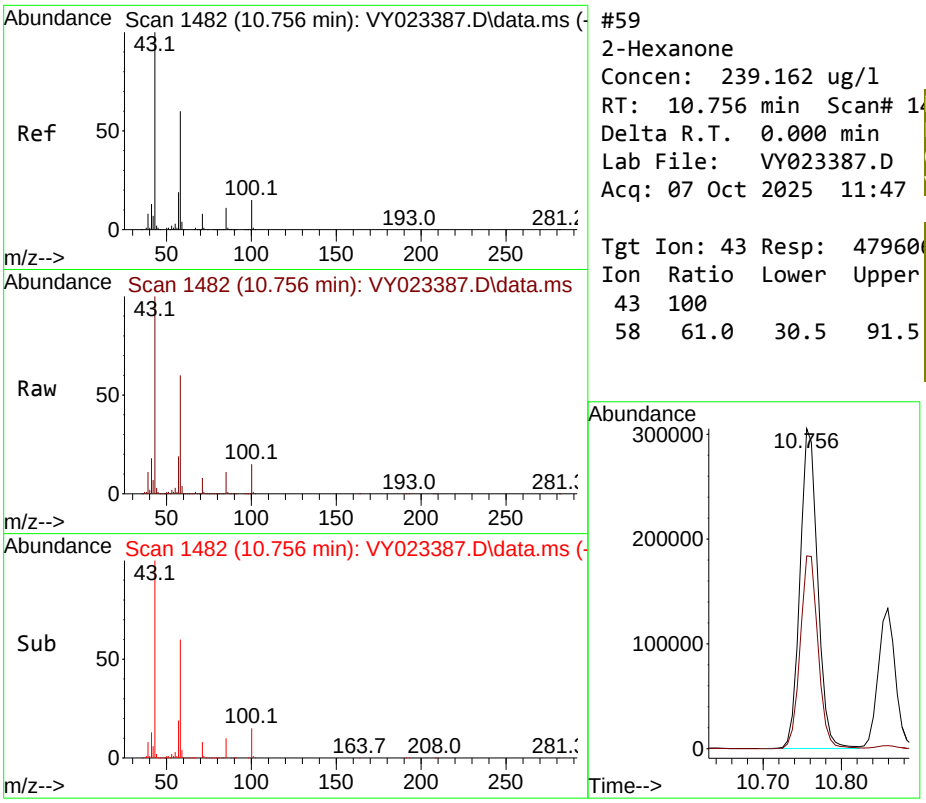


#58
2-Chloroethyl Vinyl ether
Concen: 261.921 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 63 Resp: 553816

Ion	Ratio	Lower	Upper
63	100		
106	33.2	26.6	39.8





#59
2-Hexanone
Concen: 239.162 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

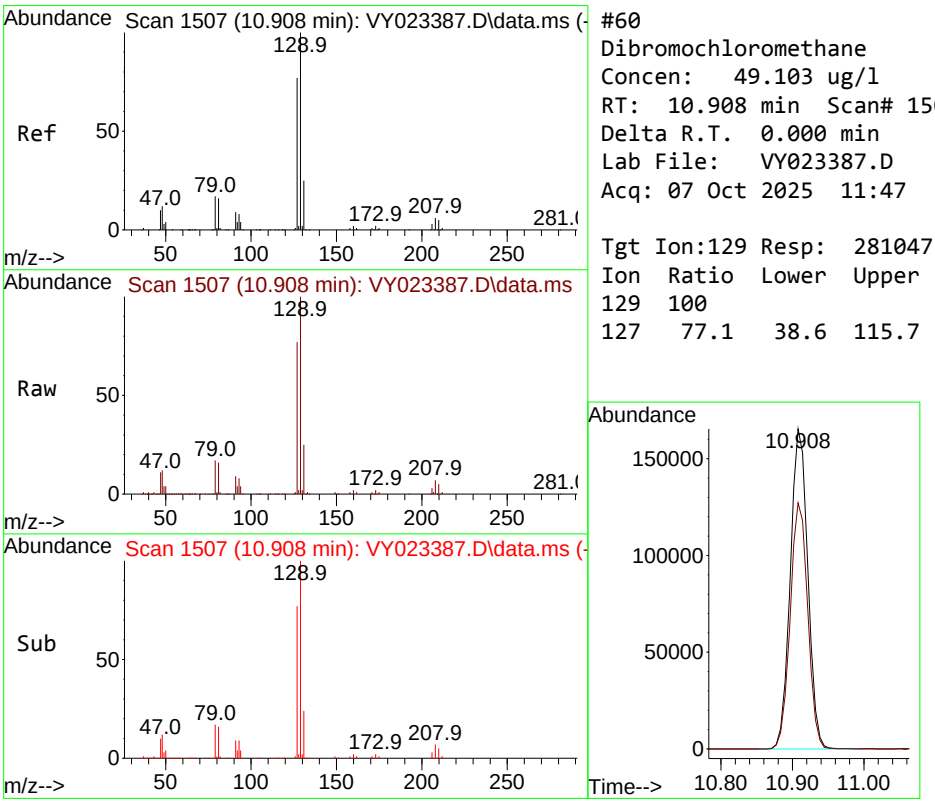
Tgt Ion: 43 Resp: 47960

Ion	Ratio	Lower	Upper
43	100		
58	61.0	30.5	91.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

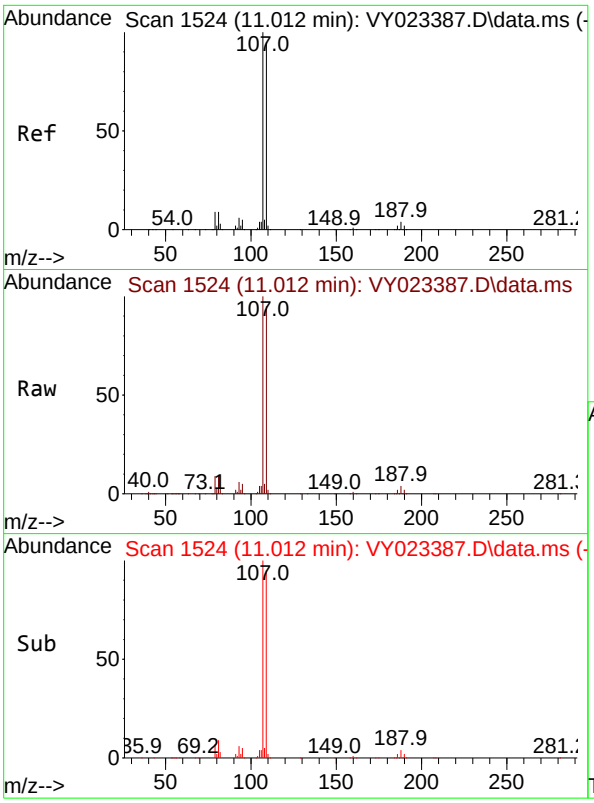
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#60
Dibromochloromethane
Concen: 49.103 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:129 Resp: 281047

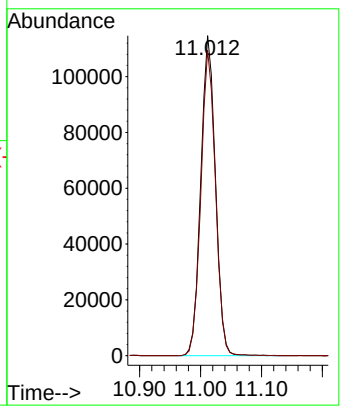
Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.7



#61
1,2-Dibromoethane
Concen: 48.468 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:107 Resp: 19135

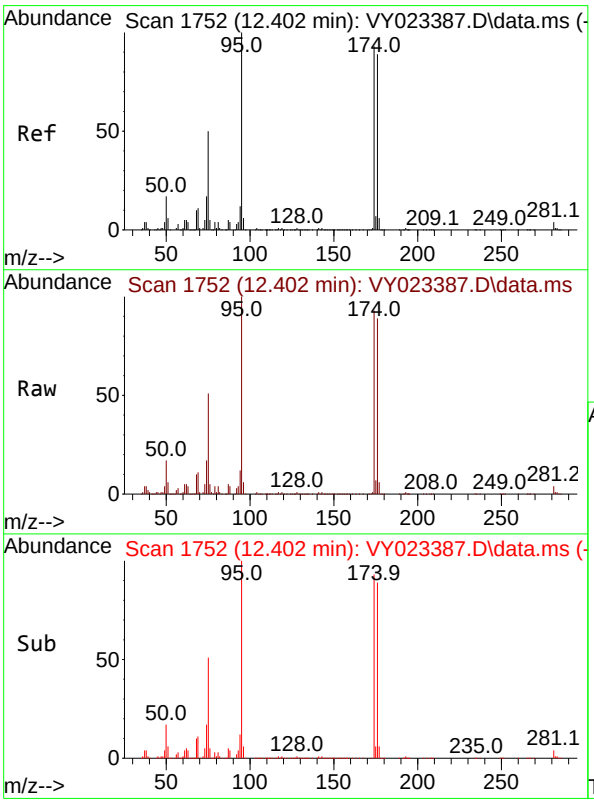
Ion	Ratio	Lower	Upper
107	100		
109	95.1	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

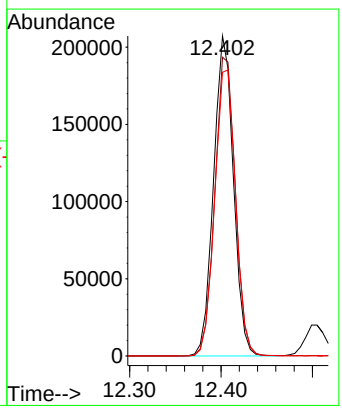
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

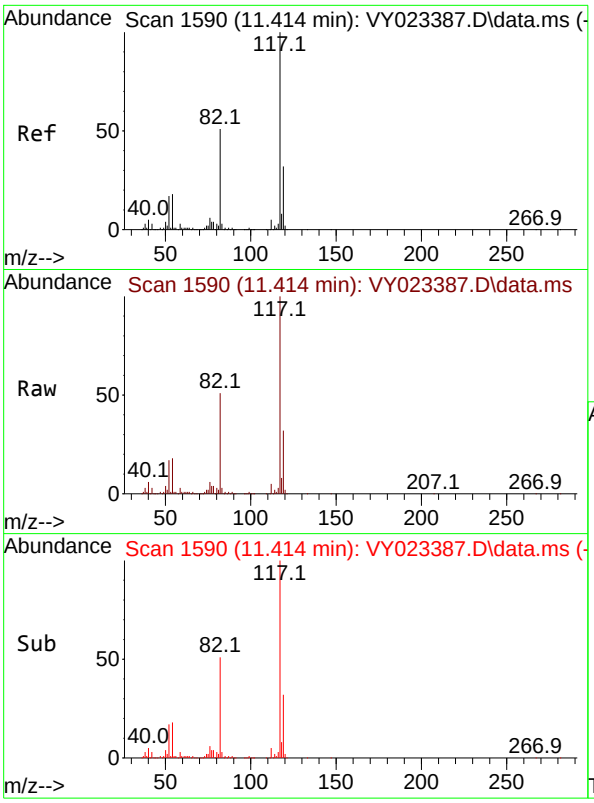


#62
4-Bromofluorobenzene
Concen: 50.546 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 95 Resp: 313426

Ion	Ratio	Lower	Upper
95	100		
174	96.4	0.0	192.8
176	93.8	0.0	187.6

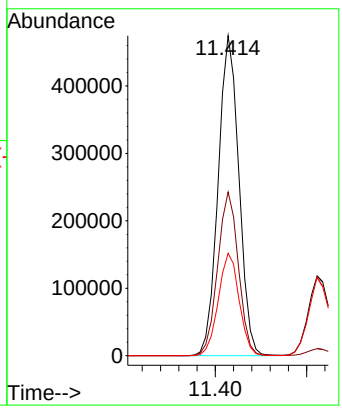




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:117 Resp: 74986

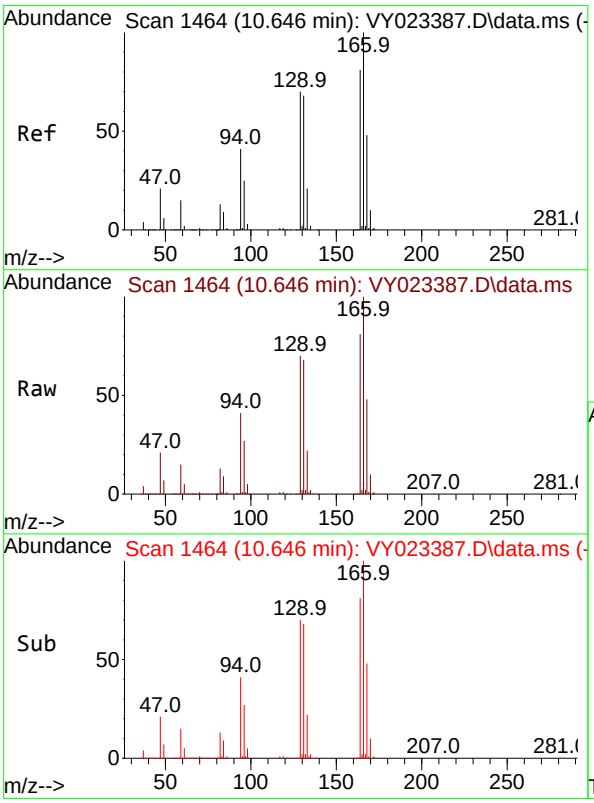
Ion	Ratio	Lower	Upper
117	100		
82	51.2	41.0	61.4
119	32.0	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

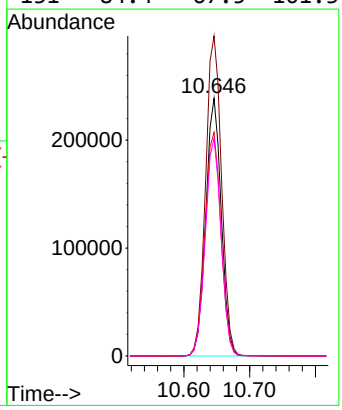
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

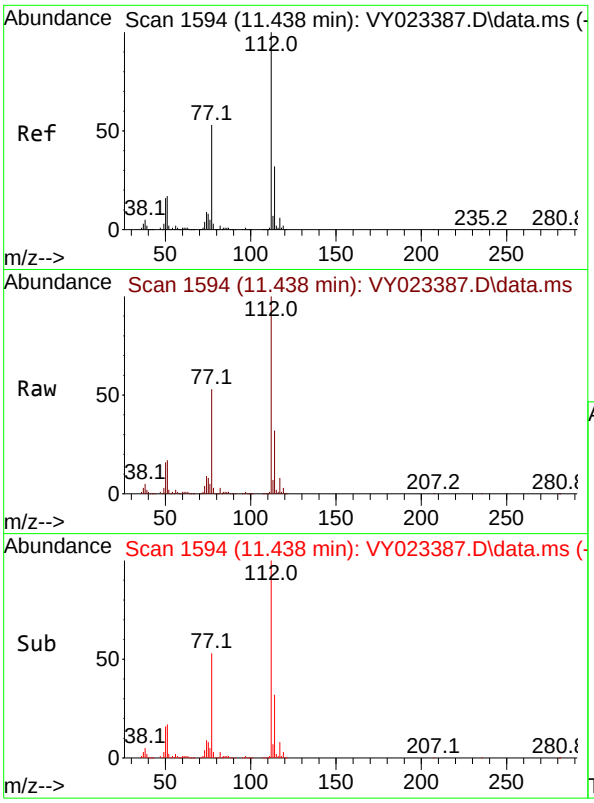


#64
Tetrachloroethene
Concen: 52.264 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:164 Resp: 392056

Ion	Ratio	Lower	Upper
164	100		
166	124.2	99.4	149.0
129	86.8	69.4	104.2
131	84.4	67.5	101.3

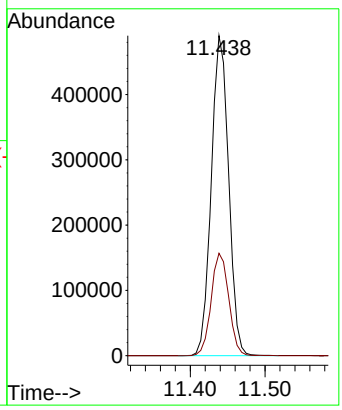




#65
Chlorobenzene
Concen: 48.460 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:112 Resp: 78965

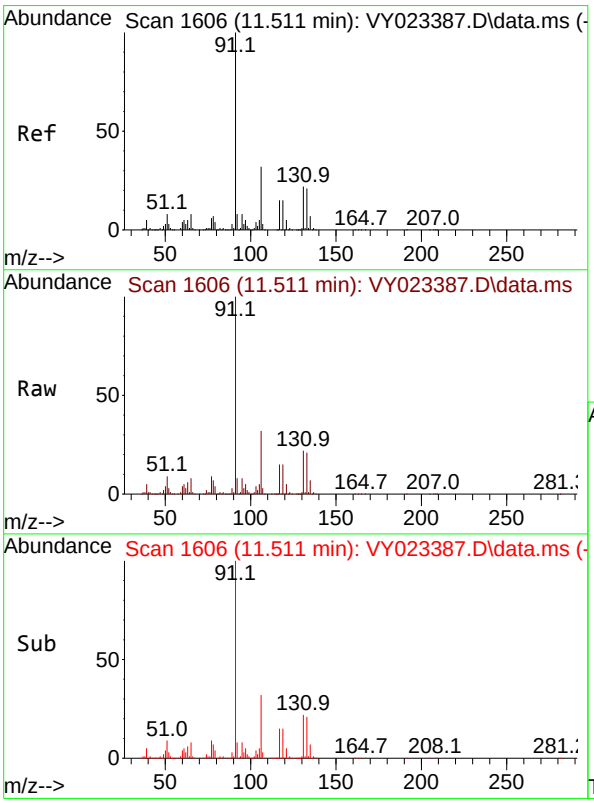
Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

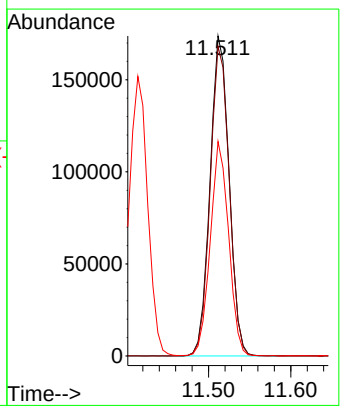
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

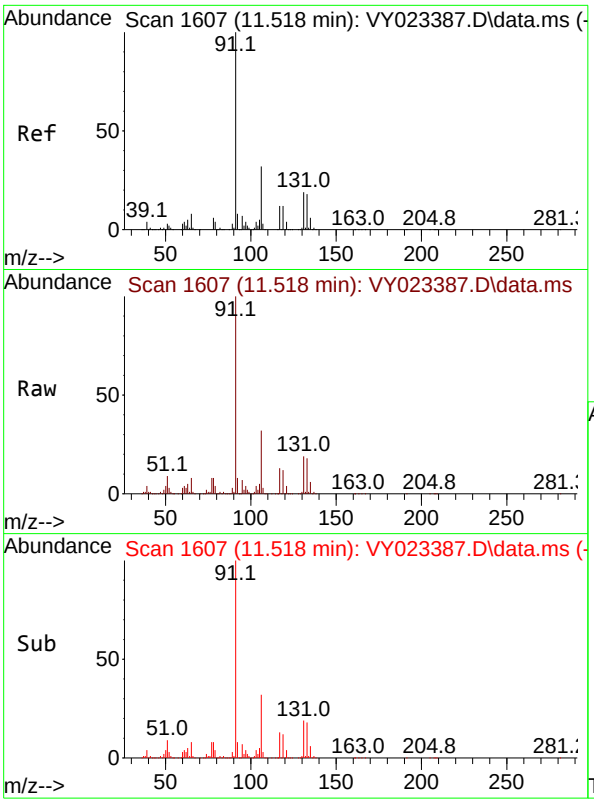


#66
1,1,1,2-Tetrachloroethane
Concen: 48.788 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:131 Resp: 279583

Ion	Ratio	Lower	Upper
131	100		
133	96.8	48.4	145.2
119	64.8	32.4	97.2

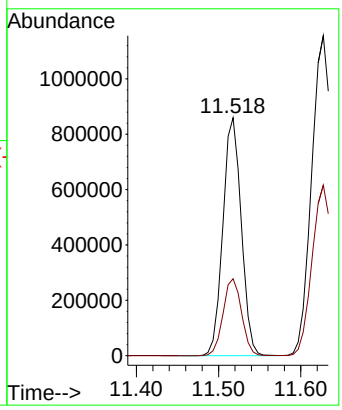




#67
Ethyl Benzene
Concen: 50.099 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 91 Resp: 133235

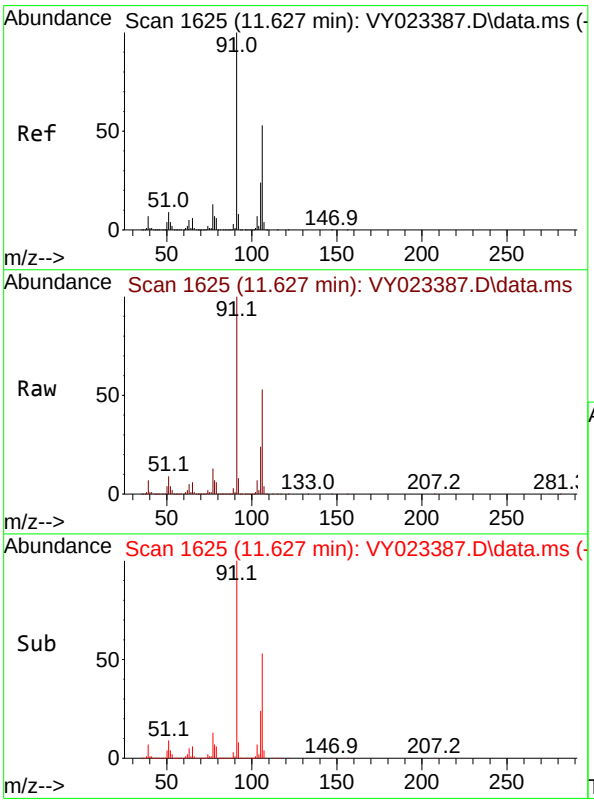
Ion	Ratio	Lower	Upper
91	100		
106	32.3	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
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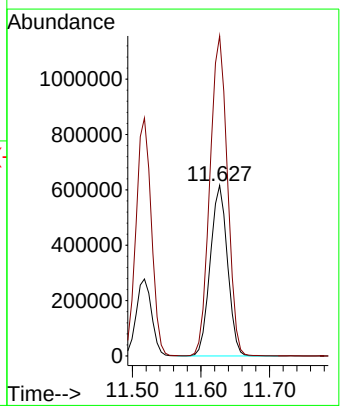
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

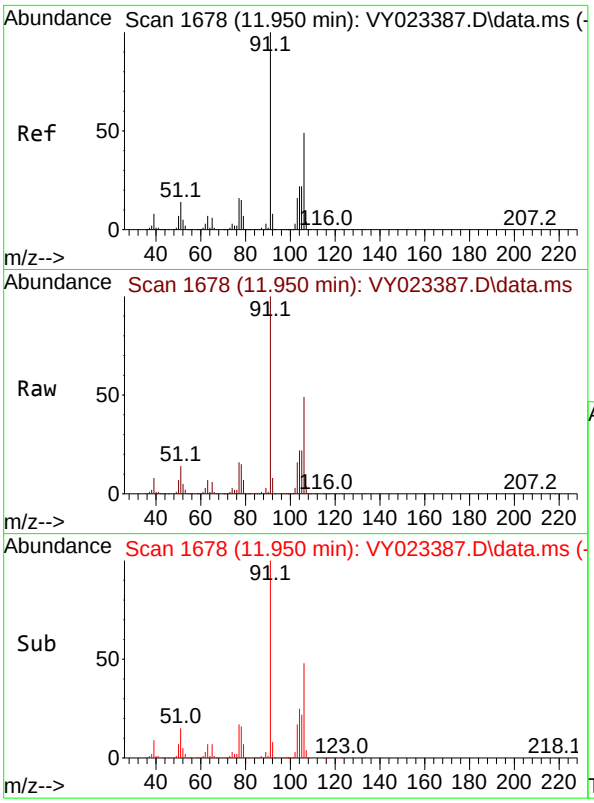


#68
m/p-Xylenes
Concen: 101.092 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:106 Resp: 1077583

Ion	Ratio	Lower	Upper
106	100		
91	190.8	152.6	229.0





#69
o-Xylene
Concen: 50.946 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

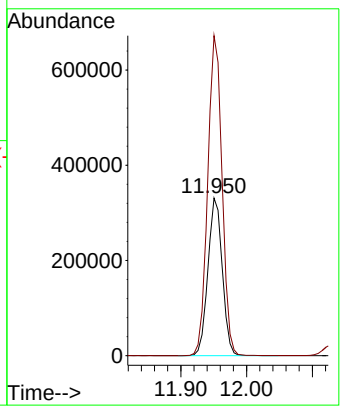
Tgt Ion:106 Resp: 50272

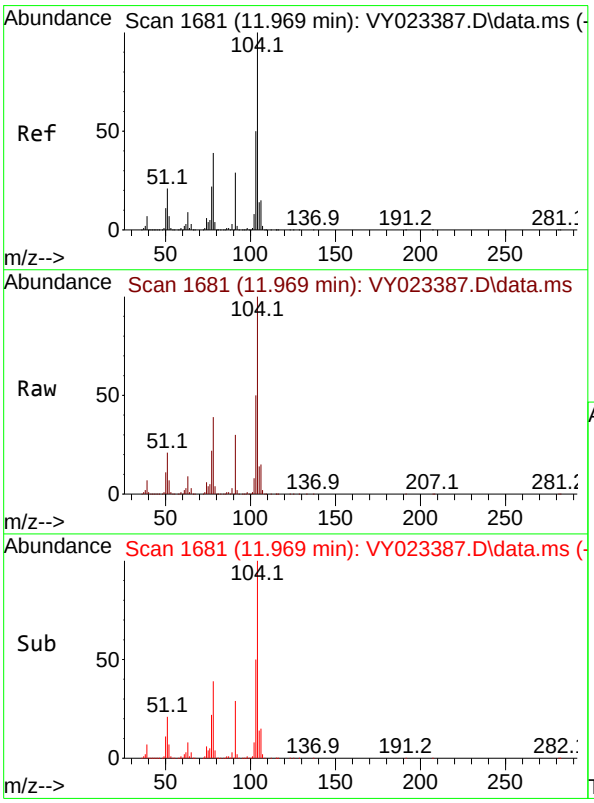
Ion	Ratio	Lower	Upper
106	100		
91	202.7	101.4	304.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

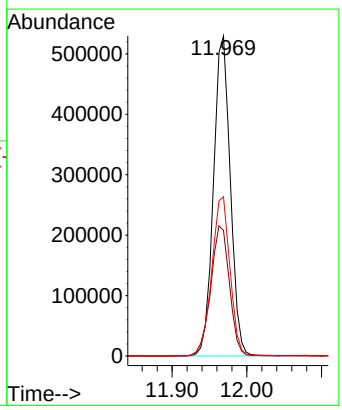


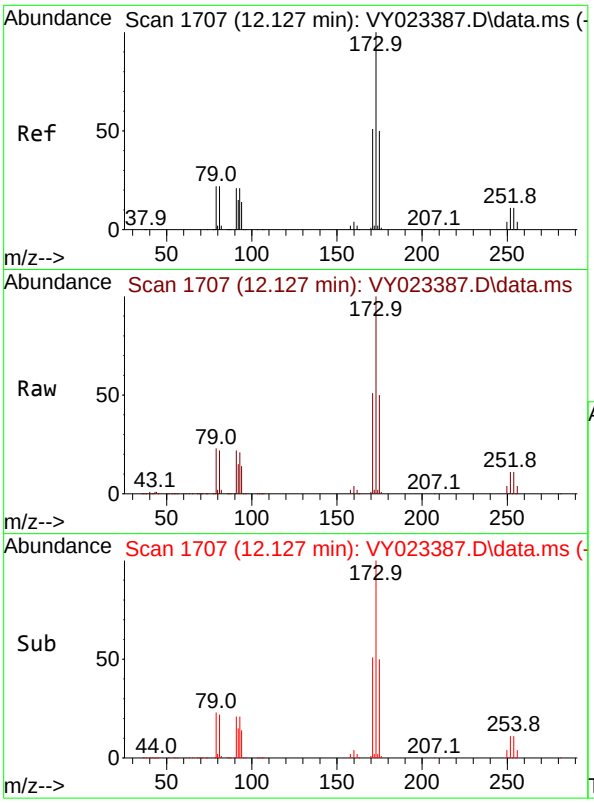


#70
Styrene
Concen: 51.059 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:104 Resp: 831908

Ion	Ratio	Lower	Upper
104	100		
78	45.1	36.1	54.1
103	54.0	43.2	64.8

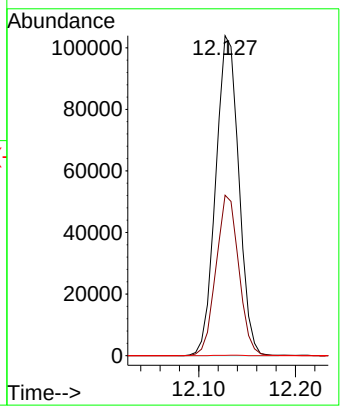




#71
Bromoform
Concen: 50.229 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:173 Resp: 17231

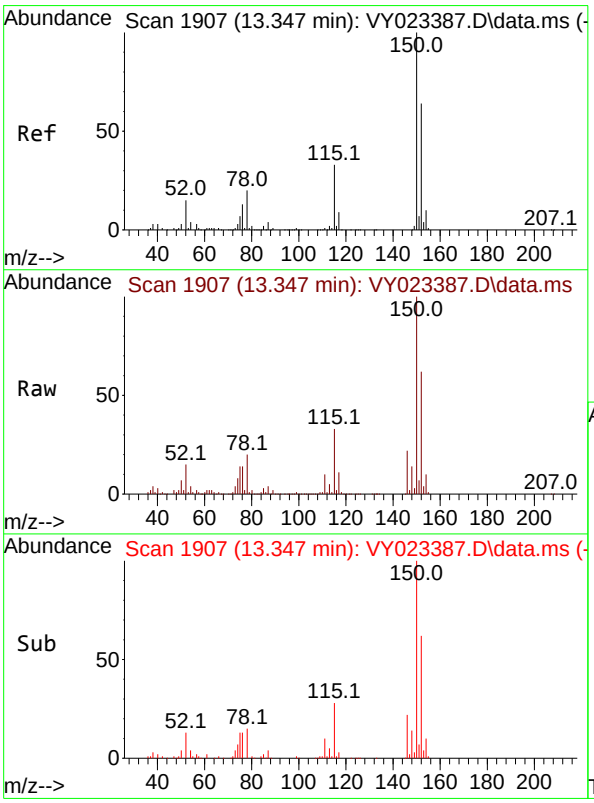
Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.8	74.3
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

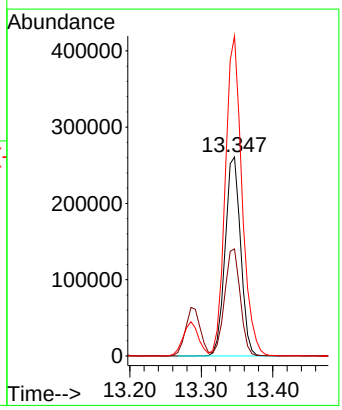
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

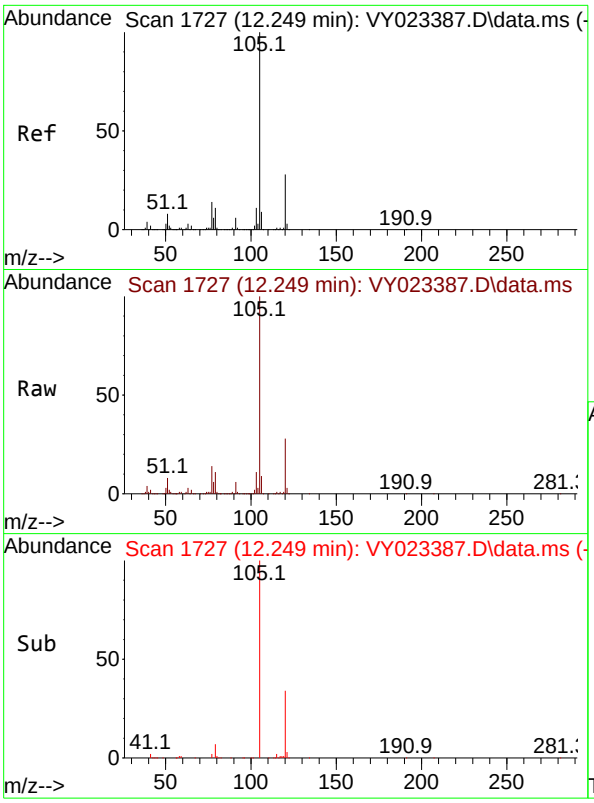


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:152 Resp: 392169

Ion	Ratio	Lower	Upper
152	100		
115	54.1	27.1	81.2
150	173.7	0.0	347.4

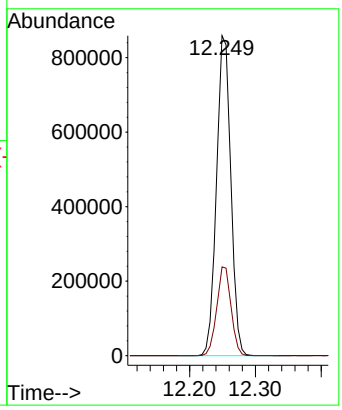




#73
Isopropylbenzene
Concen: 49.803 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:105 Resp: 130100

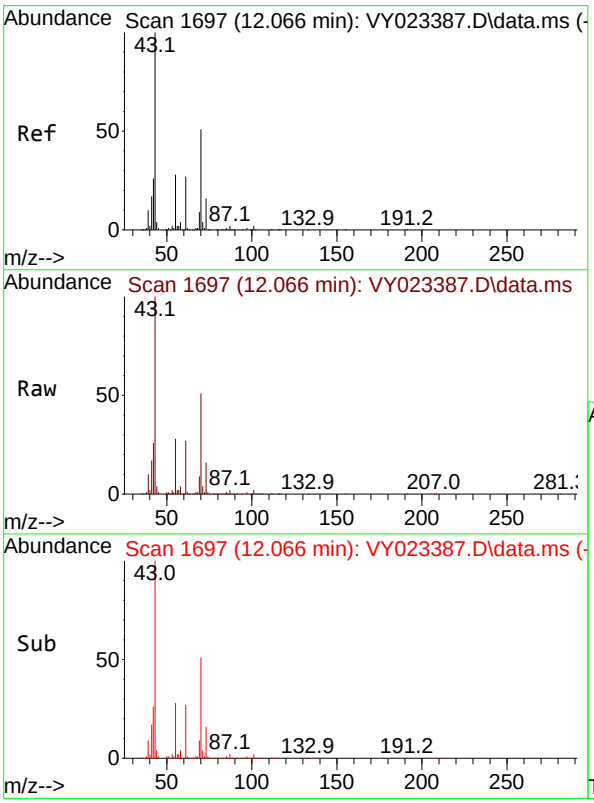
Ion	Ratio	Lower	Upper
105	100		
120	27.8	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

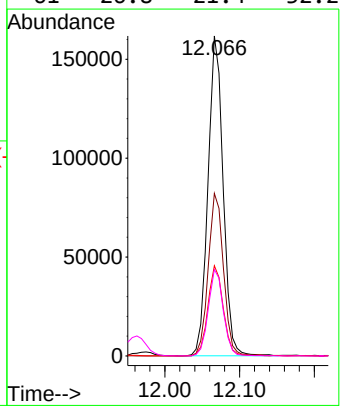
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

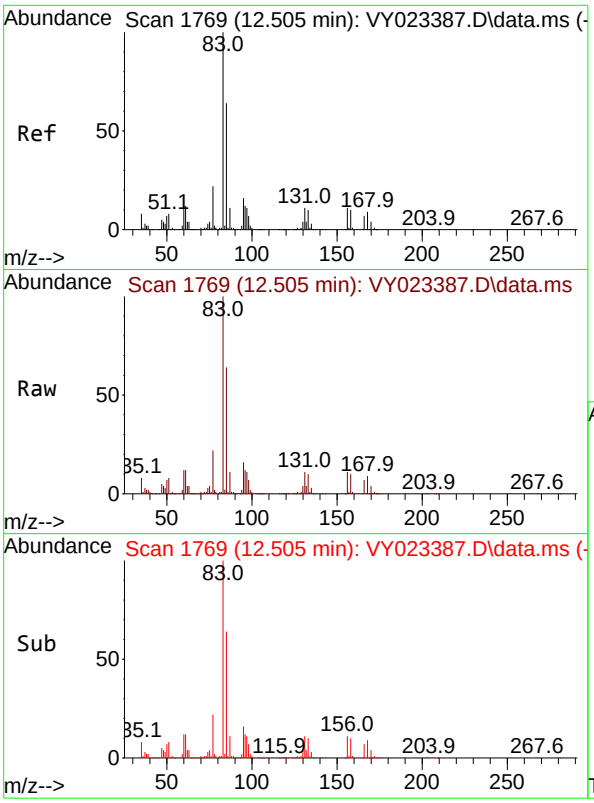


#74
N-amyl acetate
Concen: 46.640 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 227684

Ion	Ratio	Lower	Upper
43	100		
70	51.4	41.1	61.7
55	28.8	23.0	34.6
61	26.8	21.4	32.2

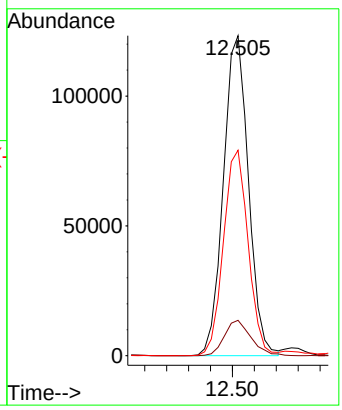




#75
1,1,2,2-Tetrachloroethane
Concen: 44.878 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 83 Resp: 19556

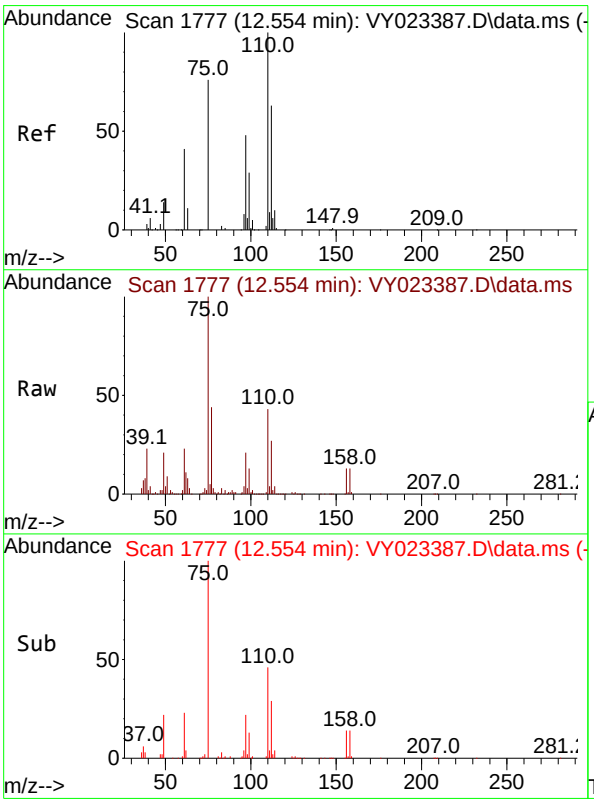
Ion	Ratio	Lower	Upper
83	100		
131	11.7	5.9	17.6
85	63.5	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

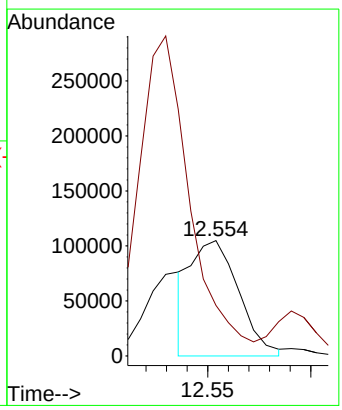
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

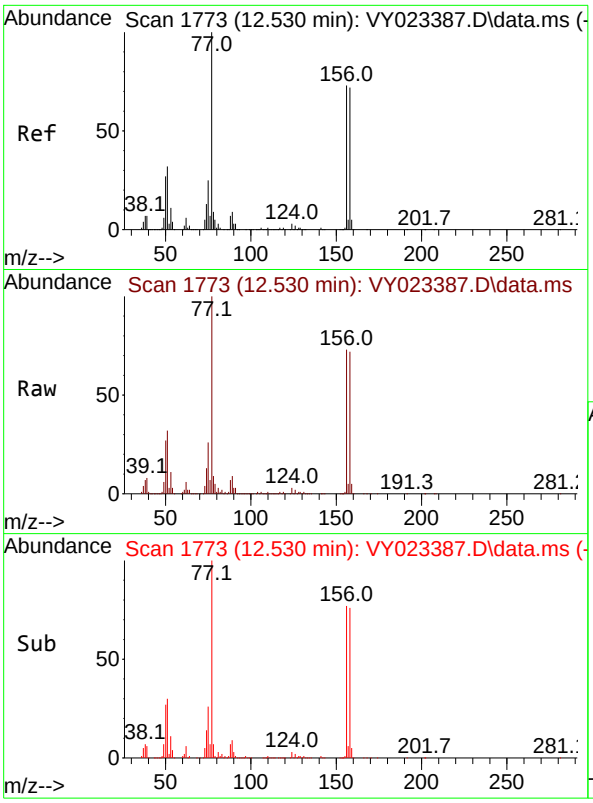


#76
1,2,3-Trichloropropane
Concen: 43.898 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 169814

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

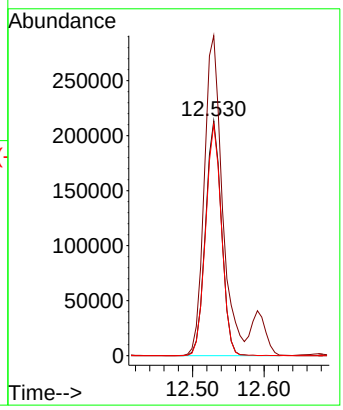




#77
Bromobenzene
Concen: 49.419 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:156 Resp: 33133

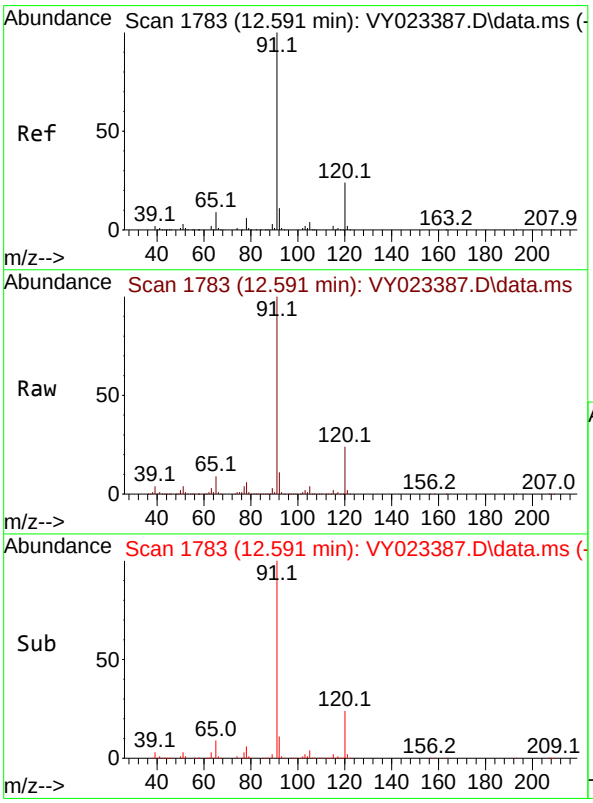
Ion	Ratio	Lower	Upper
156	100		
77	153.7	76.8	230.5
158	98.1	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

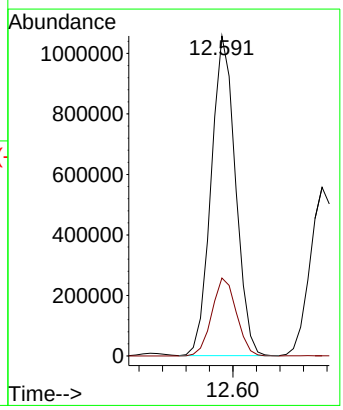
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

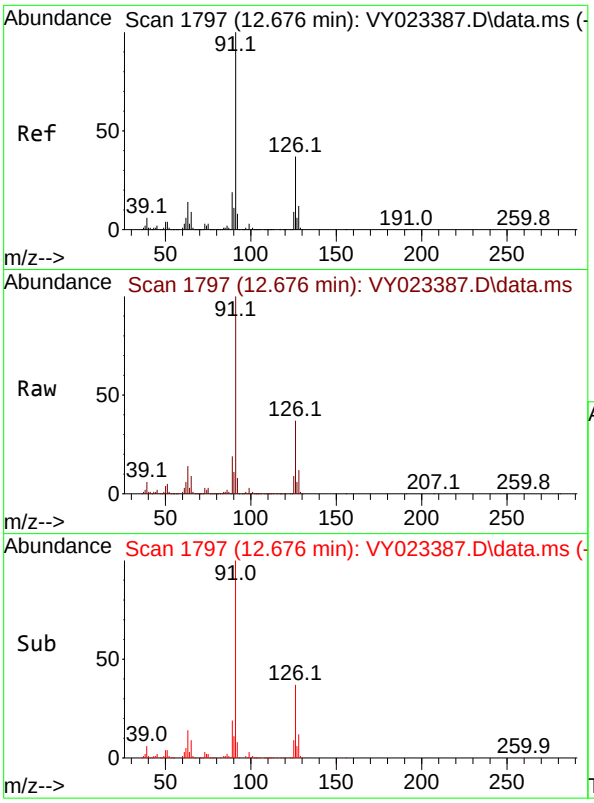


#78
n-propylbenzene
Concen: 49.572 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 91 Resp: 1522965

Ion	Ratio	Lower	Upper
91	100		
120	24.5	12.3	36.8

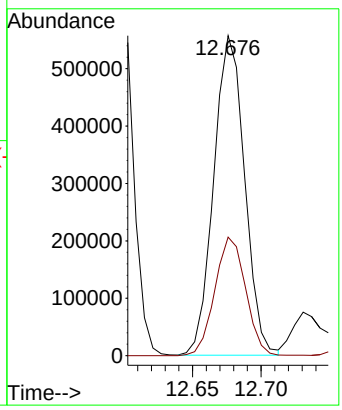




#79
2-Chlorotoluene
Concen: 49.235 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 91 Resp: 87333

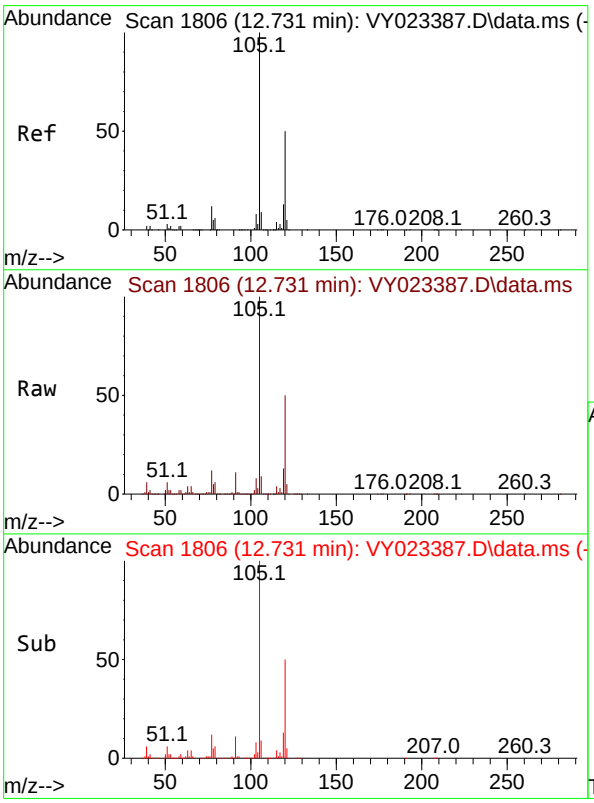
Ion	Ratio	Lower	Upper
91	100		
126	37.0	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

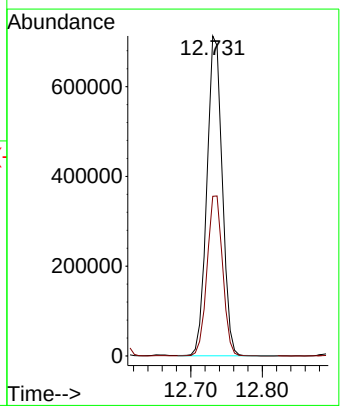
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

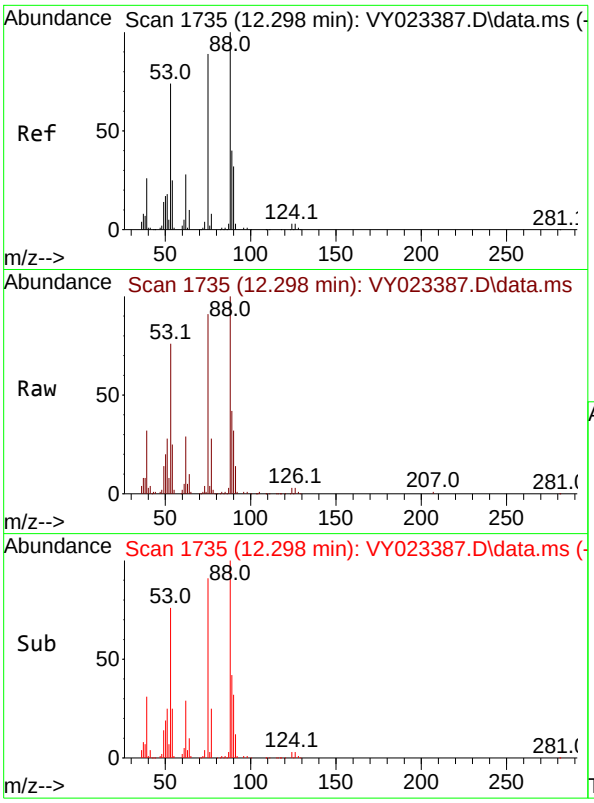


#80
1,3,5-Trimethylbenzene
Concen: 49.966 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:105 Resp: 1061112

Ion	Ratio	Lower	Upper
105	100		
120	50.9	25.4	76.4

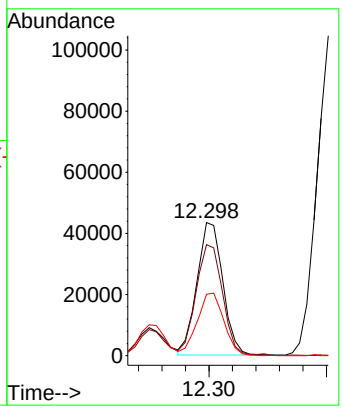




#81
trans-1,4-Dichloro-2-butene
Concen: 46.212 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 6629

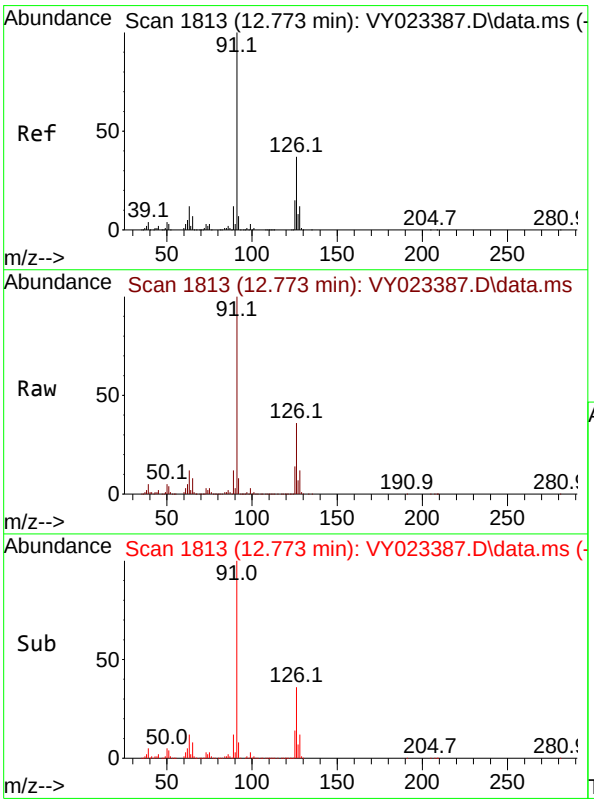
Ion	Ratio	Lower	Upper
75	100		
53	85.7	68.6	102.8
89	48.7	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

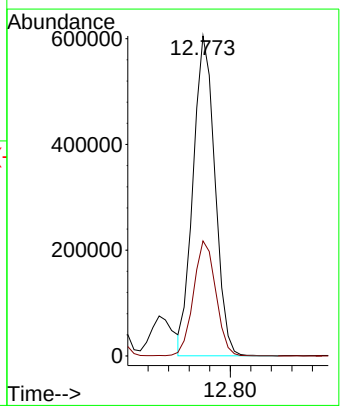
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

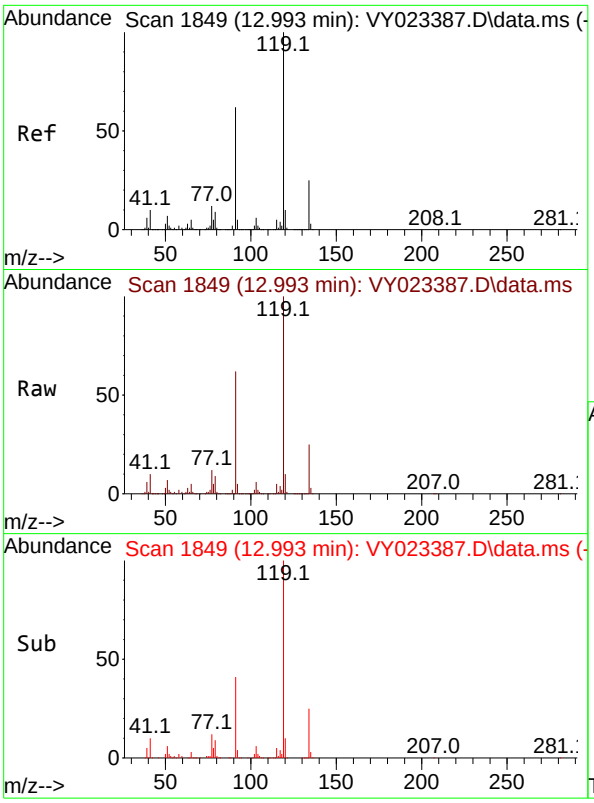


#82
4-Chlorotoluene
Concen: 48.192 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 91 Resp: 892764

Ion	Ratio	Lower	Upper
91	100		
126	36.9	18.4	55.4

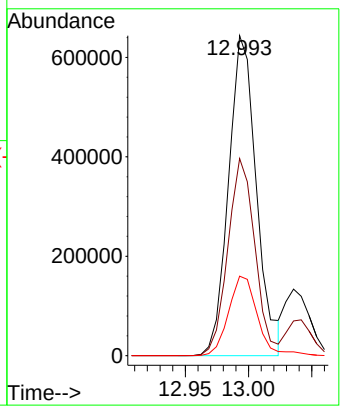




#83
tert-Butylbenzene
Concen: 51.104 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:119 Resp: 98893

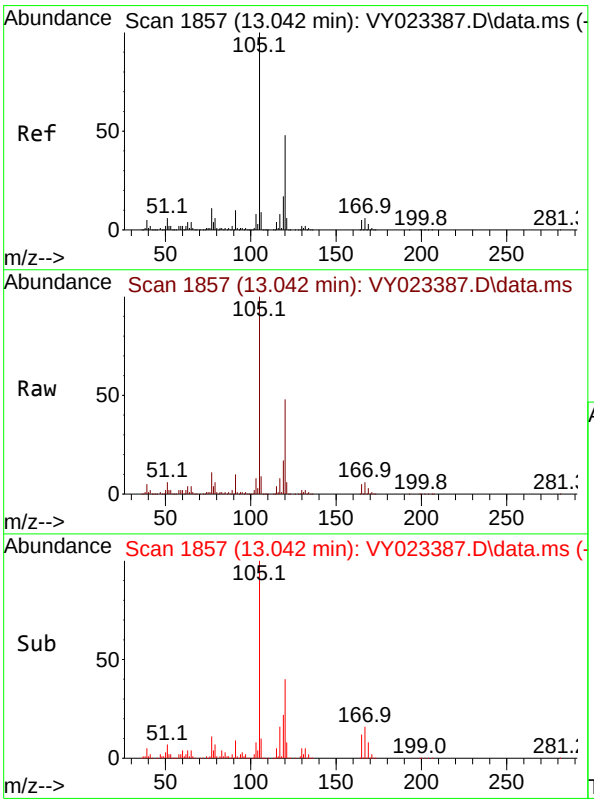
Ion	Ratio	Lower	Upper
119	100		
91	59.9	29.9	89.8
134	25.8	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

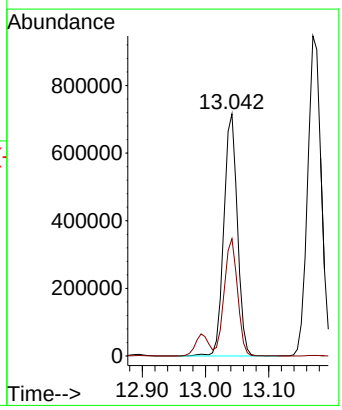
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

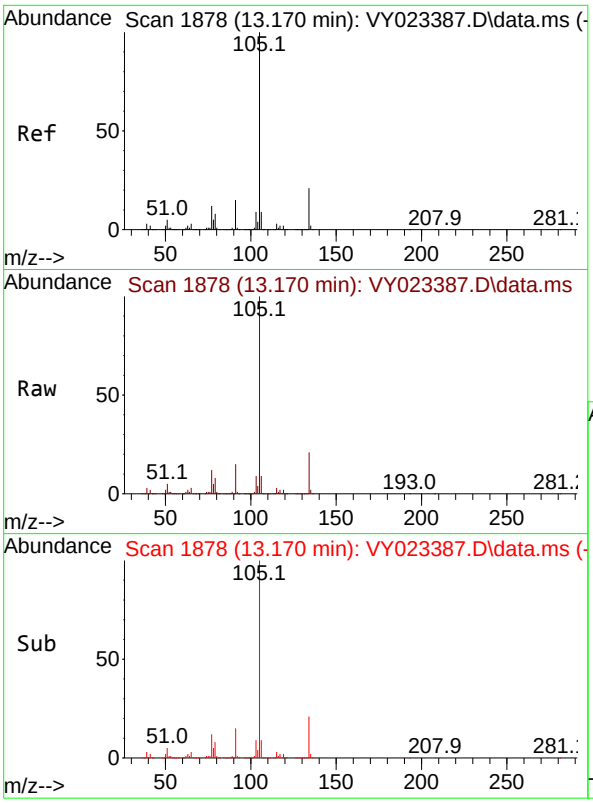


#84
1,2,4-Trimethylbenzene
Concen: 50.505 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:105 Resp: 1061159

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.8	71.2

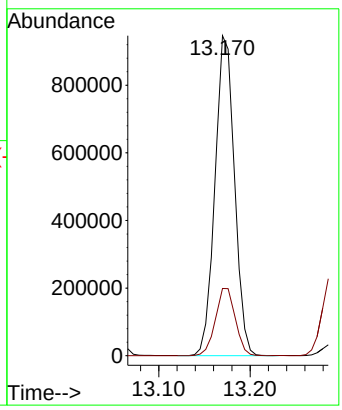




#85
sec-Butylbenzene
Concen: 50.133 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:105 Resp: 140500

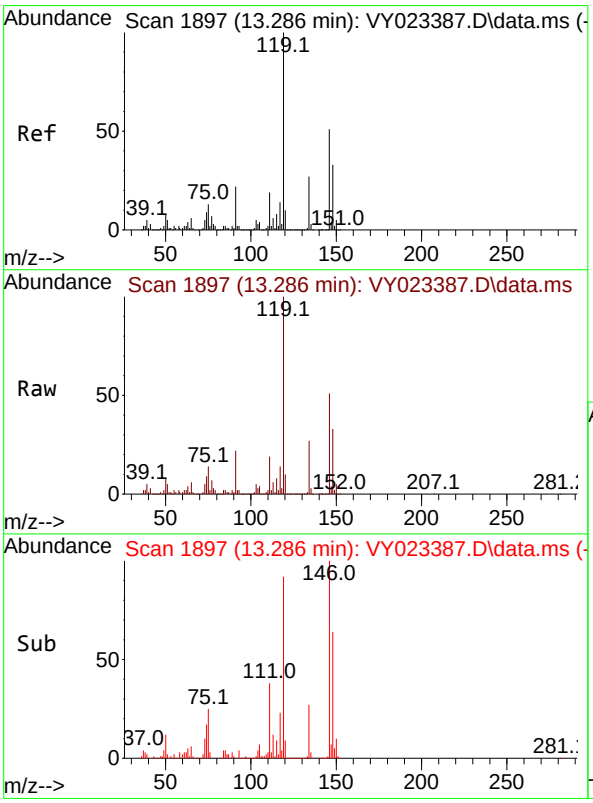
Ion	Ratio	Lower	Upper
105	100		
134	21.4	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

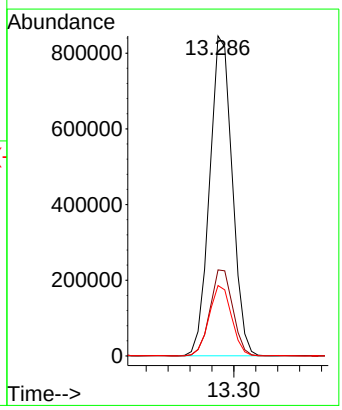
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

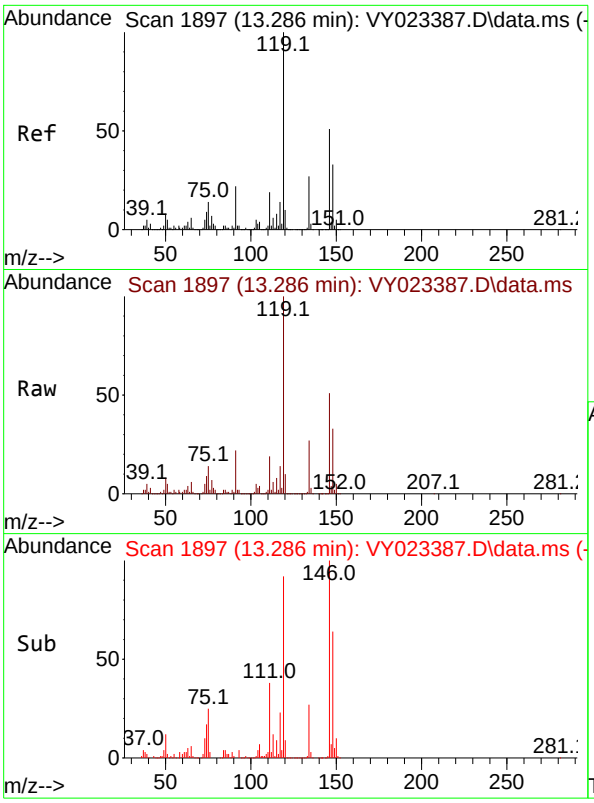


#86
p-Isopropyltoluene
Concen: 51.115 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:119 Resp: 1210644

Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.6	40.7
91	21.9	10.9	32.9

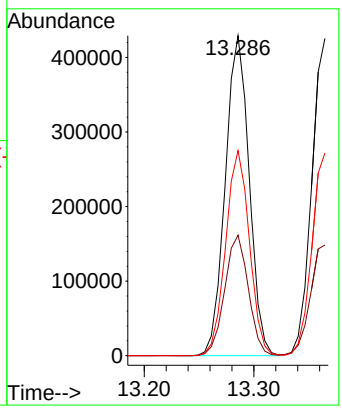




#87
1,3-Dichlorobenzene
Concen: 49.072 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:146 Resp: 64989

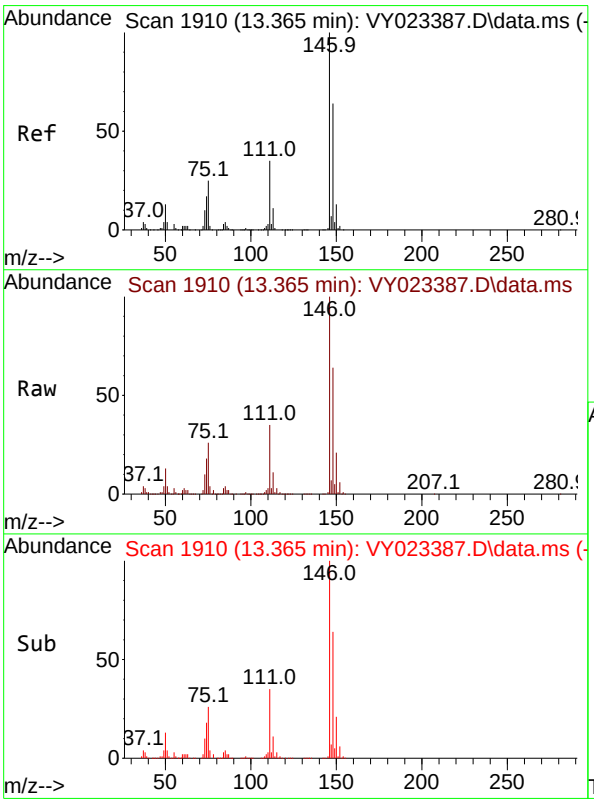
Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.7	56.1
148	63.9	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

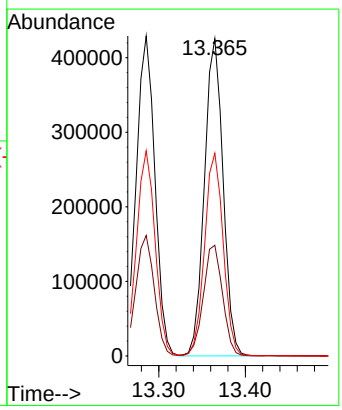
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

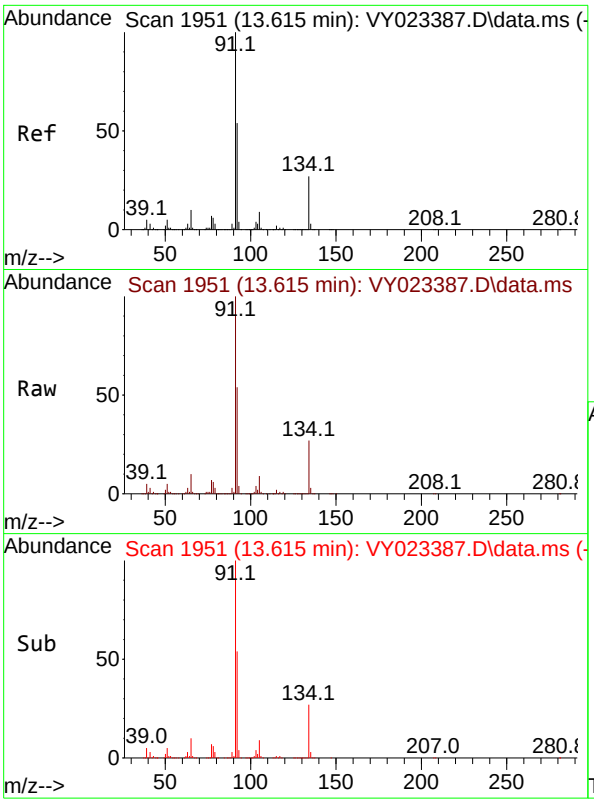


#88
1,4-Dichlorobenzene
Concen: 48.476 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:146 Resp: 636694

Ion	Ratio	Lower	Upper
146	100		
111	36.0	18.0	54.0
148	63.8	31.9	95.7

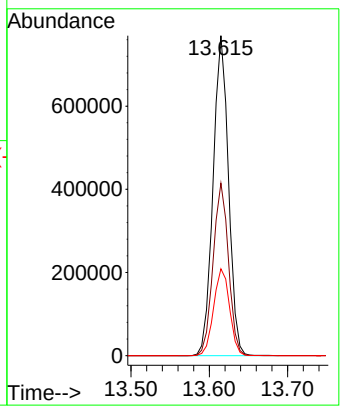




#89
n-Butylbenzene
Concen: 50.299 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 91 Resp: 105194

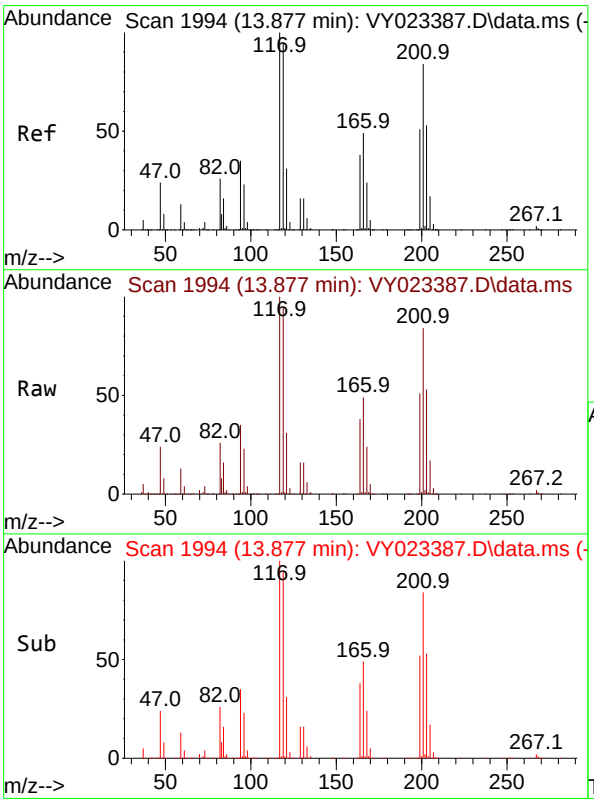
Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.0	80.8
134	28.1	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

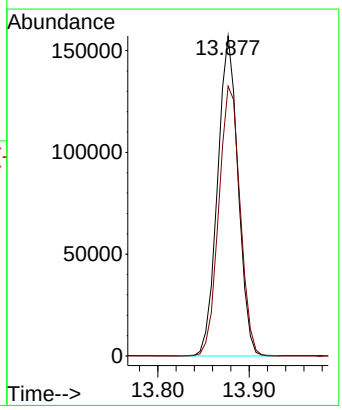
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

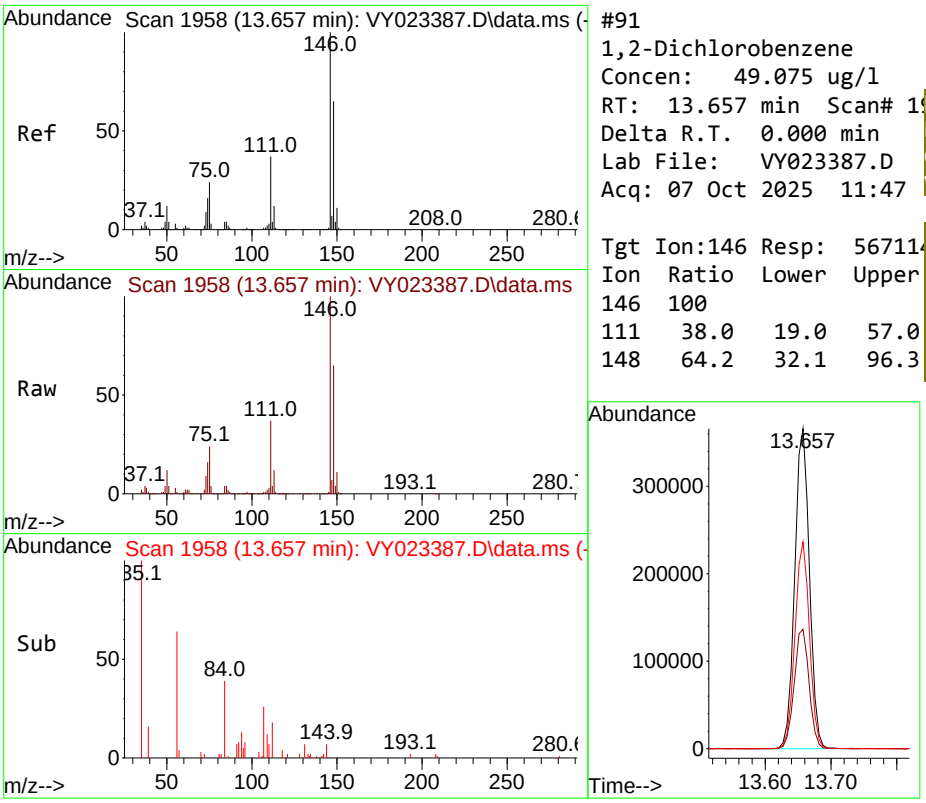


#90
Hexachloroethane
Concen: 47.664 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:117 Resp: 245108

Ion	Ratio	Lower	Upper
117	100		
201	87.6	43.8	131.4





#91
1,2-Dichlorobenzene
Concen: 49.075 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

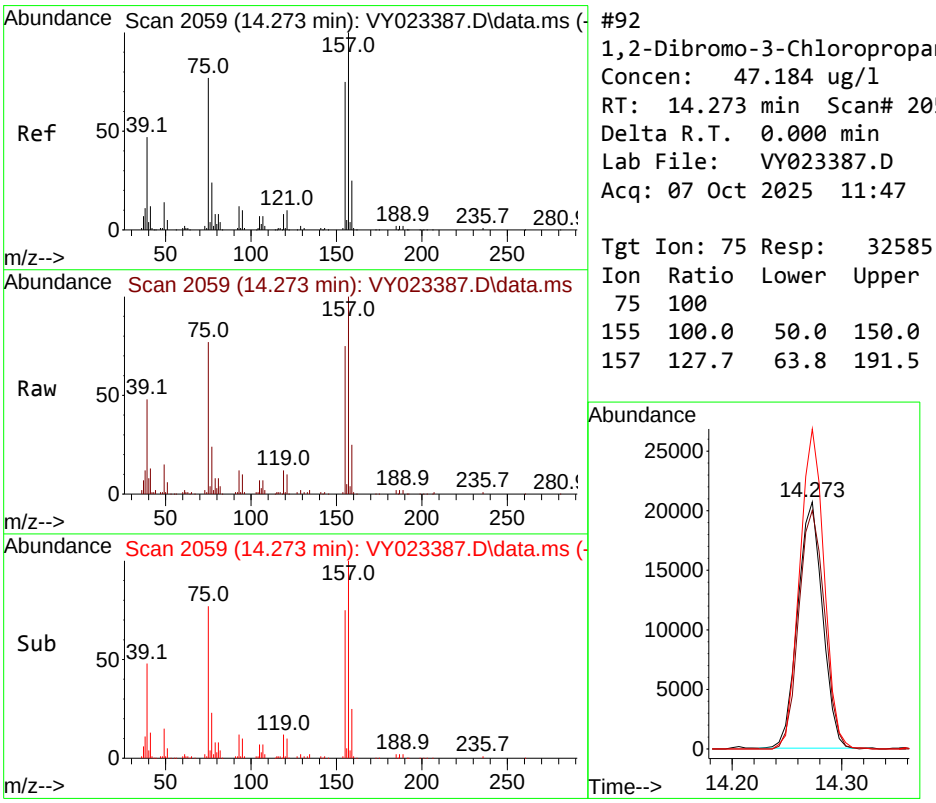
Tgt Ion:146 Resp: 56711

Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.0	57.0
148	64.2	32.1	96.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

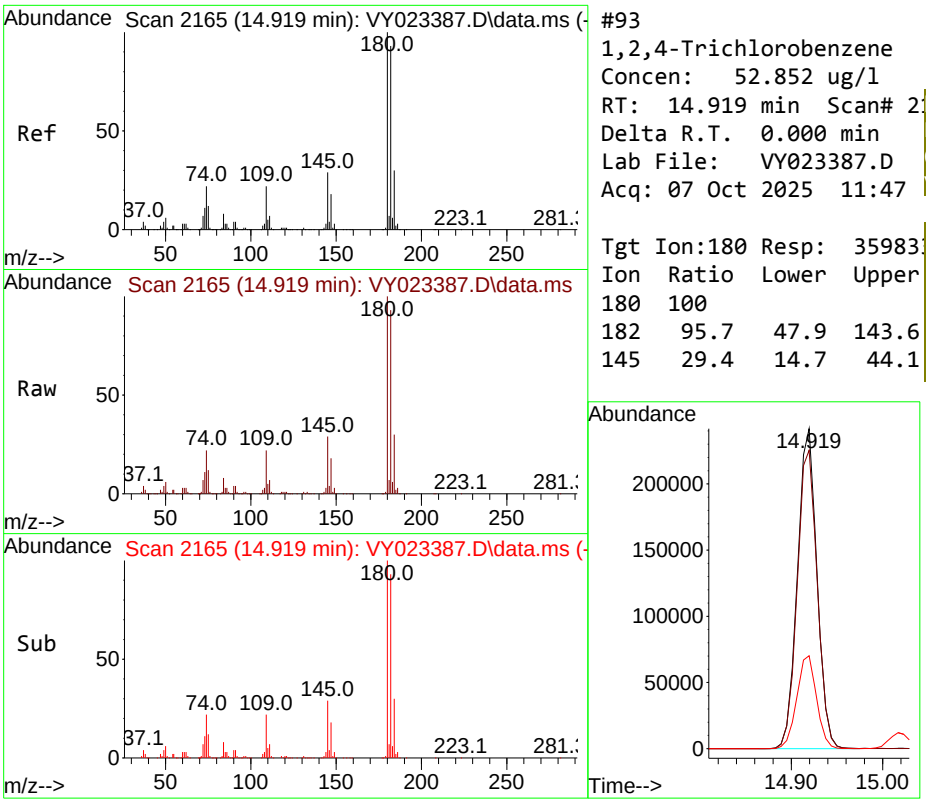
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 47.184 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 32585

Ion	Ratio	Lower	Upper
75	100		
155	100.0	50.0	150.0
157	127.7	63.8	191.5



#93
1,2,4-Trichlorobenzene
Concen: 52.852 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

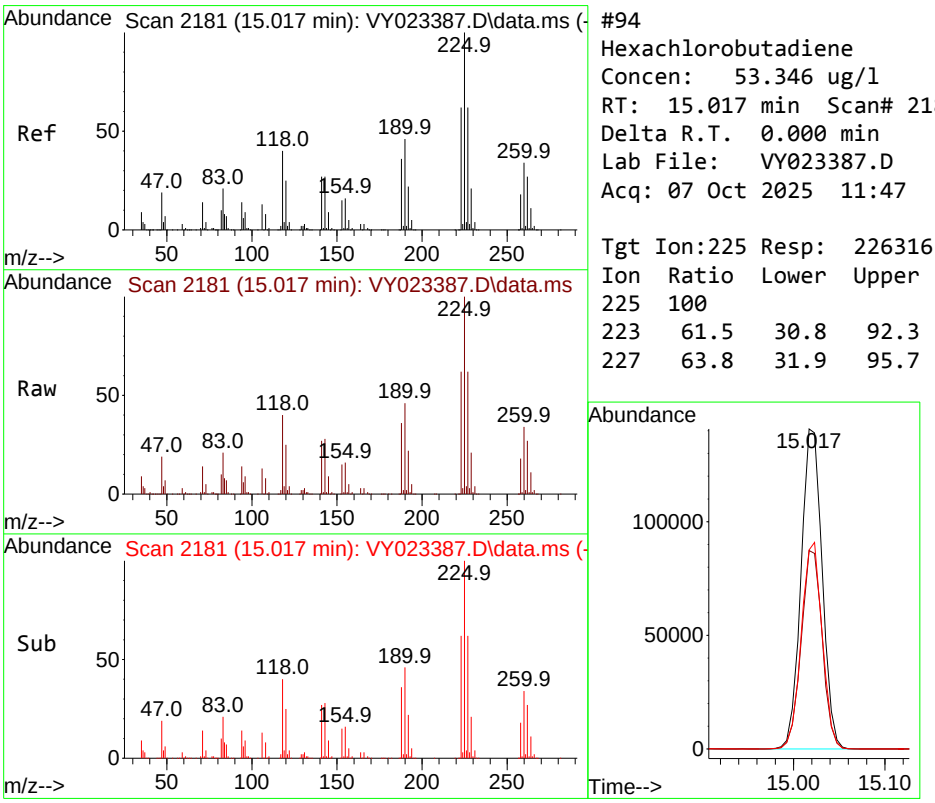
Tgt Ion:180 Resp: 35983

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.9	143.6
145	29.4	14.7	44.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

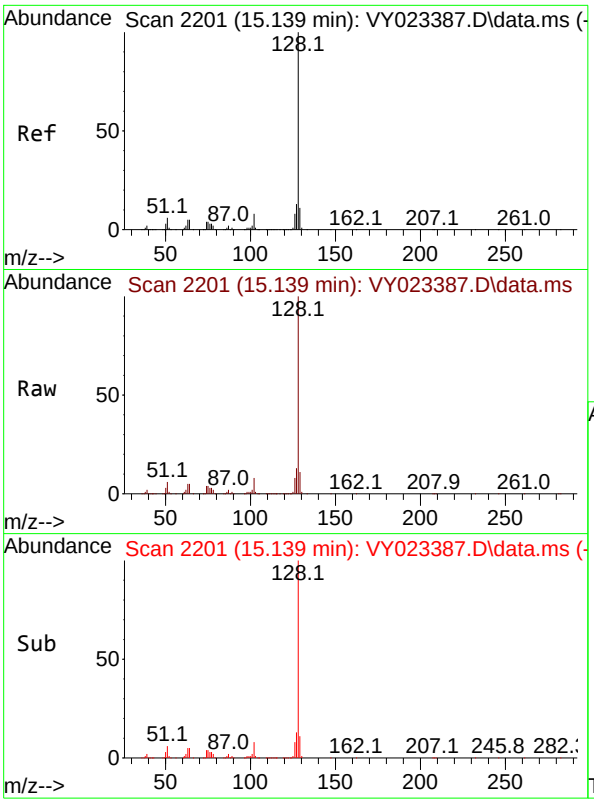
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#94
Hexachlorobutadiene
Concen: 53.346 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:225 Resp: 226316

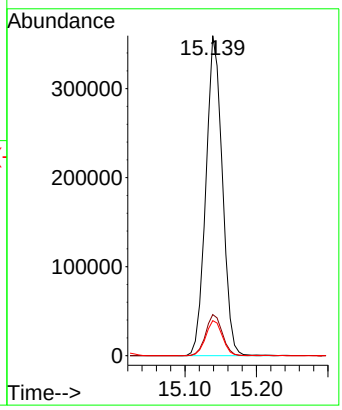
Ion	Ratio	Lower	Upper
225	100		
223	61.5	30.8	92.3
227	63.8	31.9	95.7



#95
Naphthalene
Concen: 53.012 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:128 Resp: 57504

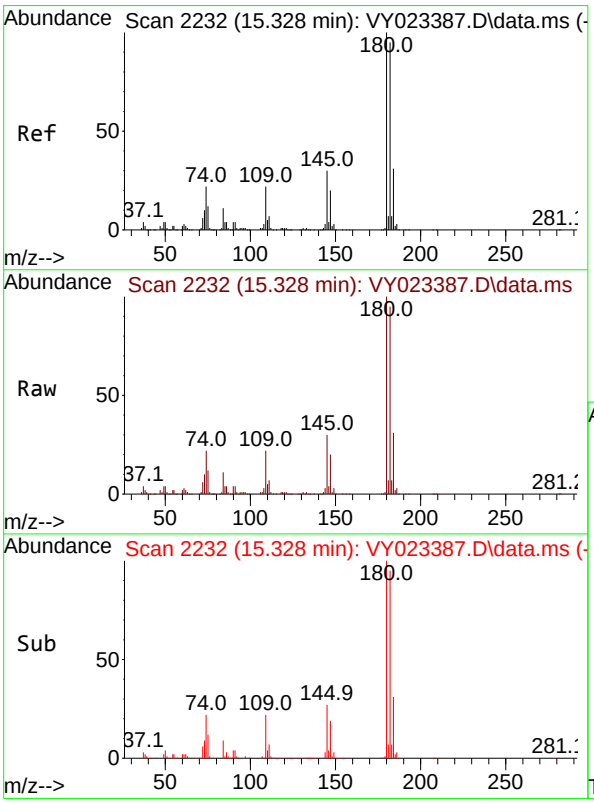
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.1	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

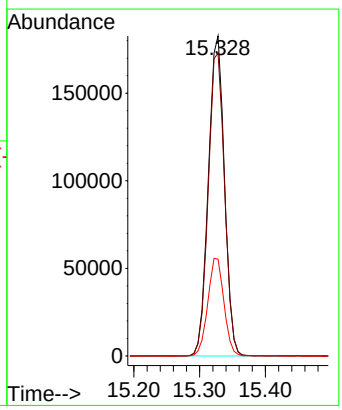
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.628 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:180 Resp: 310831

Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.9	143.8
145	30.6	15.3	45.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023388.D
Acq On : 07 Oct 2025 12:09
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:44:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	595770	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	855682	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	764361	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	400285	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	467005	90.510	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 181.020%#			
35) Dibromofluoromethane	7.634	113	511478	98.497	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 197.000%#			
50) Toluene-d8	10.103	98	1919872	98.031	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 196.060%#			
62) 4-Bromofluorobenzene	12.401	95	636435	103.007	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 206.020%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	368985	78.627	ug/l	96
3) Chloromethane	2.068	50	521606	78.195	ug/l	96
4) Vinyl Chloride	2.202	62	711235	84.438	ug/l	100
5) Bromomethane	2.586	94	574957	83.210	ug/l	99
6) Chloroethane	2.732	64	491625	85.968	ug/l	99
7) Trichlorofluoromethane	3.049	101	1012851	93.610	ug/l	99
8) Diethyl Ether	3.452	74	266779	94.266	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	511482	88.441	ug/l	100
10) Methyl Iodide	4.001	142	651575	97.495	ug/l	99
11) Tert butyl alcohol	4.866	59	172718	568.898	ug/l	99
12) 1,1-Dichloroethene	3.787	96	508059	91.303	ug/l	96
13) Acrolein	3.647	56	262636	510.573	ug/l	99
14) Allyl chloride	4.378	41	637073	91.446	ug/l	99
15) Acrylonitrile	5.055	53	522511	471.296	ug/l	100
16) Acetone	3.866	43	504700	435.004	ug/l	98
17) Carbon Disulfide	4.104	76	1442005	83.061	ug/l	99
18) Methyl Acetate	4.385	43	316911	107.474	ug/l	98
19) Methyl tert-butyl Ether	5.116	73	1300206	99.797	ug/l	97
20) Methylene Chloride	4.610	84	552018	87.742	ug/l	98
21) trans-1,2-Dichloroethene	5.110	96	569334	91.999	ug/l	96
22) Diisopropyl ether	6.018	45	1423347	92.133	ug/l	97
23) Vinyl Acetate	5.957	43	3975052	468.098	ug/l	99
24) 1,1-Dichloroethane	5.915	63	911619	89.517	ug/l	99
25) 2-Butanone	6.890	43	685693	478.154	ug/l	99
26) 2,2-Dichloropropane	6.884	77	833452	92.108	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	670773	95.557	ug/l	98
28) Bromochloromethane	7.244	49	321657	81.418	ug/l	99
29) Tetrahydrofuran	7.262	42	415867	488.587	ug/l	99
30) Chloroform	7.421	83	1003722	91.401	ug/l	100
31) Cyclohexane	7.701	56	767083	85.293	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	910837	92.399	ug/l	100
36) 1,1-Dichloropropene	7.835	75	692477	94.516	ug/l	99
37) Ethyl Acetate	6.982	43	280560	96.859	ug/l	98
38) Carbon Tetrachloride	7.817	117	833170	97.894	ug/l	99
39) Methylcyclohexane	9.109	83	947664	101.024	ug/l	99
40) Benzene	8.079	78	2192645	96.000	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023388.D
Acq On : 07 Oct 2025 12:09
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 08 04:44:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.219	41	152239	101.200	ug/l		98
42) 1,2-Dichloroethane	8.158	62	554810	95.449	ug/l		100
43) Isopropyl Acetate	8.195	43	573653	101.815	ug/l		99
44) Trichloroethene	8.866	130	636149	99.245	ug/l		100
45) 1,2-Dichloropropane	9.140	63	485084	94.381	ug/l		99
46) Dibromomethane	9.231	93	309964	98.596	ug/l		99
47) Bromodichloromethane	9.420	83	769238	97.210	ug/l		99
48) Methyl methacrylate	9.219	41	282582	107.476	ug/l		99
49) 1,4-Dioxane	9.225	88	77305	2374.722	ug/l		99
51) 4-Methyl-2-Pentanone	9.993	43	1539324	533.386	ug/l		100
52) Toluene	10.170	92	1462927	100.905	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	710475	104.537	ug/l		98
54) cis-1,3-Dichloropropene	9.853	75	822967	101.302	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	417623	99.875	ug/l		96
56) Ethyl methacrylate	10.438	69	549366	114.077	ug/l		99
57) 1,3-Dichloropropane	10.713	76	670961	99.140	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	1240361	588.731	ug/l		99
59) 2-Hexanone	10.755	43	1081568	541.284	ug/l		99
60) Dibromochloromethane	10.908	129	593878	104.133	ug/l		100
61) 1,2-Dibromoethane	11.011	107	406293	103.280	ug/l		99
64) Tetrachloroethene	10.646	164	767753	100.406	ug/l		99
65) Chlorobenzene	11.438	112	1655143	99.649	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.511	131	586878	100.470	ug/l		99
67) Ethyl Benzene	11.517	91	2788252	102.856	ug/l		98
68) m/p-Xylenes	11.627	106	2243033	206.437	ug/l		100
69) o-Xylene	11.950	106	1072335	106.611	ug/l		99
70) Styrene	11.969	104	1782757	107.344	ug/l		100
71) Bromoform	12.127	173	373208	106.727	ug/l	#	100
73) Isopropylbenzene	12.249	105	2741698	102.825	ug/l		100
74) N-amyl acetate	12.066	43	532255	106.818	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	434720	97.735	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	364622m	92.345	ug/l		
77) Bromobenzene	12.529	156	701741	102.545	ug/l		100
78) n-propylbenzene	12.590	91	3165894	100.958	ug/l		99
79) 2-Chlorotoluene	12.676	91	1800124	99.426	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	2219080	102.374	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	148302	101.273	ug/l		98
82) 4-Chlorotoluene	12.773	91	1854165	98.060	ug/l		99
83) tert-Butylbenzene	12.993	119	2028198	102.684	ug/l		97
84) 1,2,4-Trimethylbenzene	13.042	105	2227197	103.853	ug/l		100
85) sec-Butylbenzene	13.170	105	2932949	102.530	ug/l		100
86) p-Isopropyltoluene	13.285	119	2548220	105.408	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	1361716	100.735	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	1323618	98.734	ug/l		100
89) n-Butylbenzene	13.615	91	2223744	104.174	ug/l		99
90) Hexachloroethane	13.877	117	514746	98.069	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	1193043	101.146	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.267	75	70107	99.458	ug/l		94
93) 1,2,4-Trichlorobenzene	14.919	180	806328	116.031	ug/l		99
94) Hexachlorobutadiene	15.017	225	470072	108.557	ug/l		99
95) Naphthalene	15.139	128	1378291	124.485	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	693477	115.034	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023388.D
Acq On : 07 Oct 2025 12:09
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:44:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

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

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

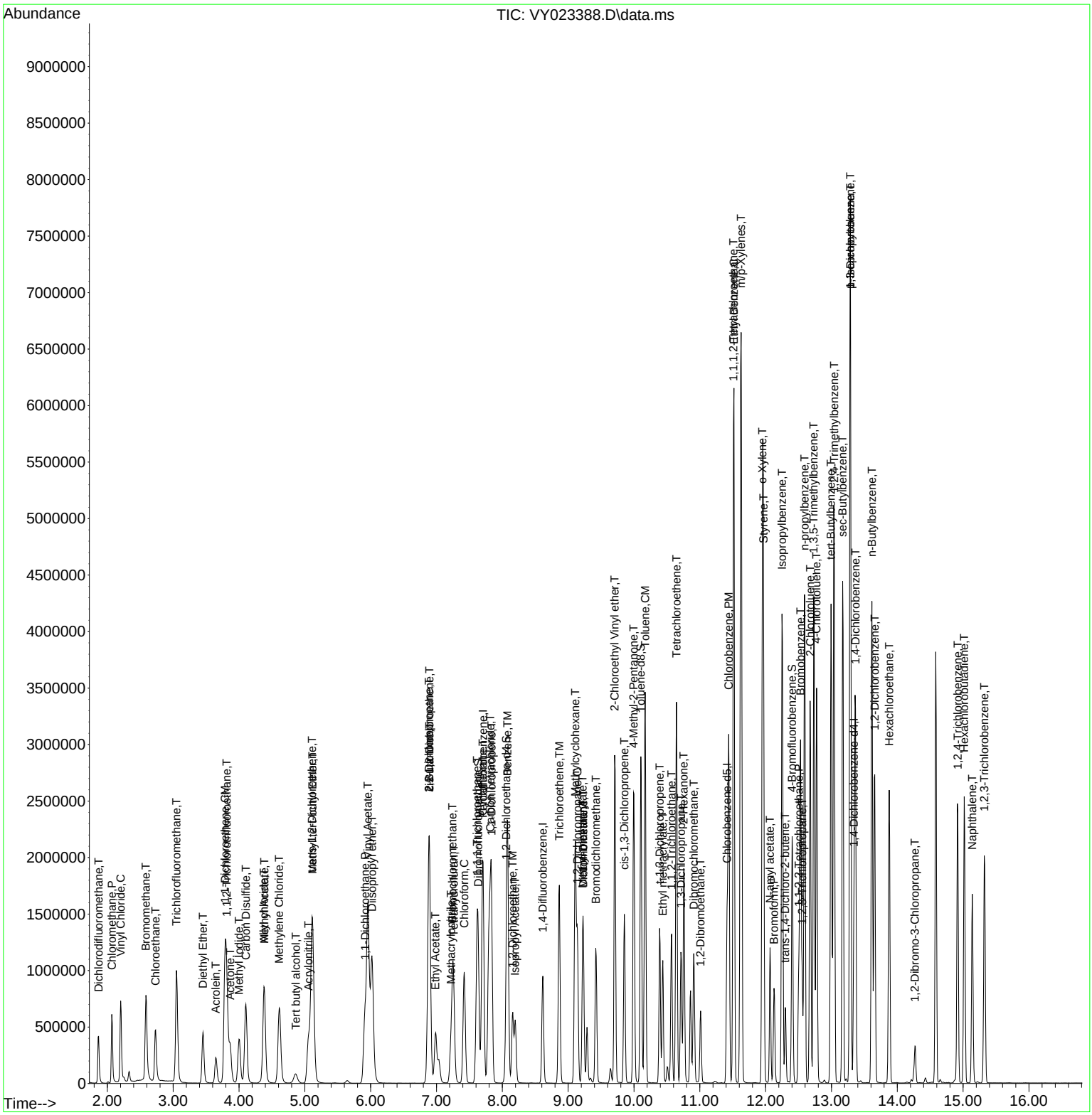
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Acq On : 07 Oct 2025 12:09
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

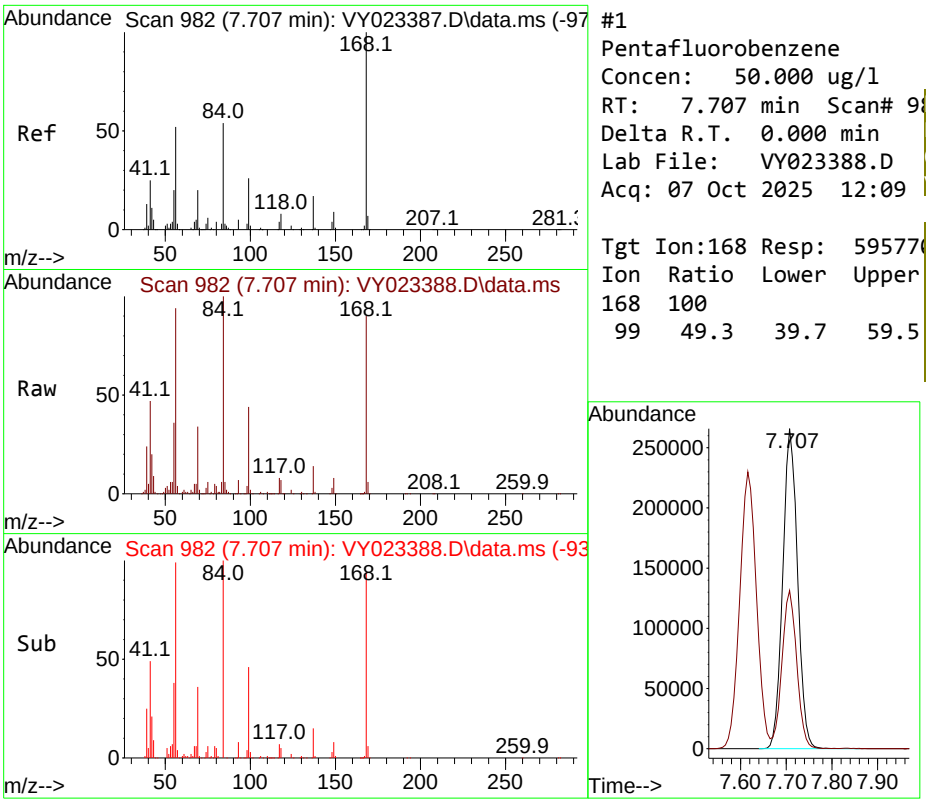
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Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

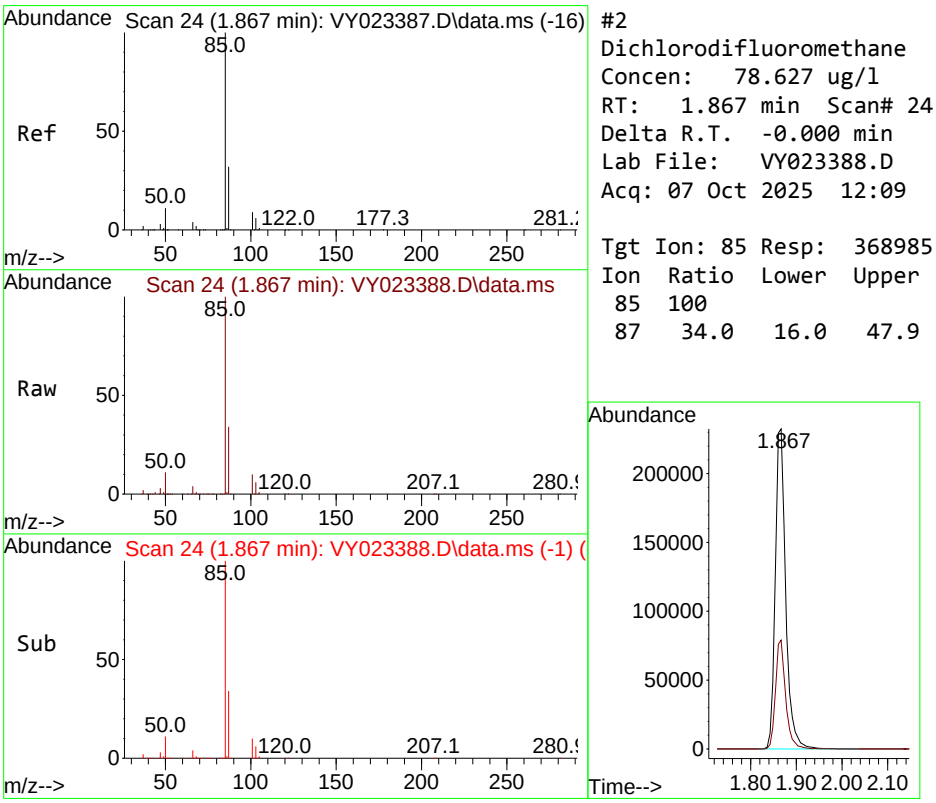
Tgt Ion:168 Resp: 59577

Ion	Ratio	Lower	Upper
168	100		
99	49.3	39.7	59.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

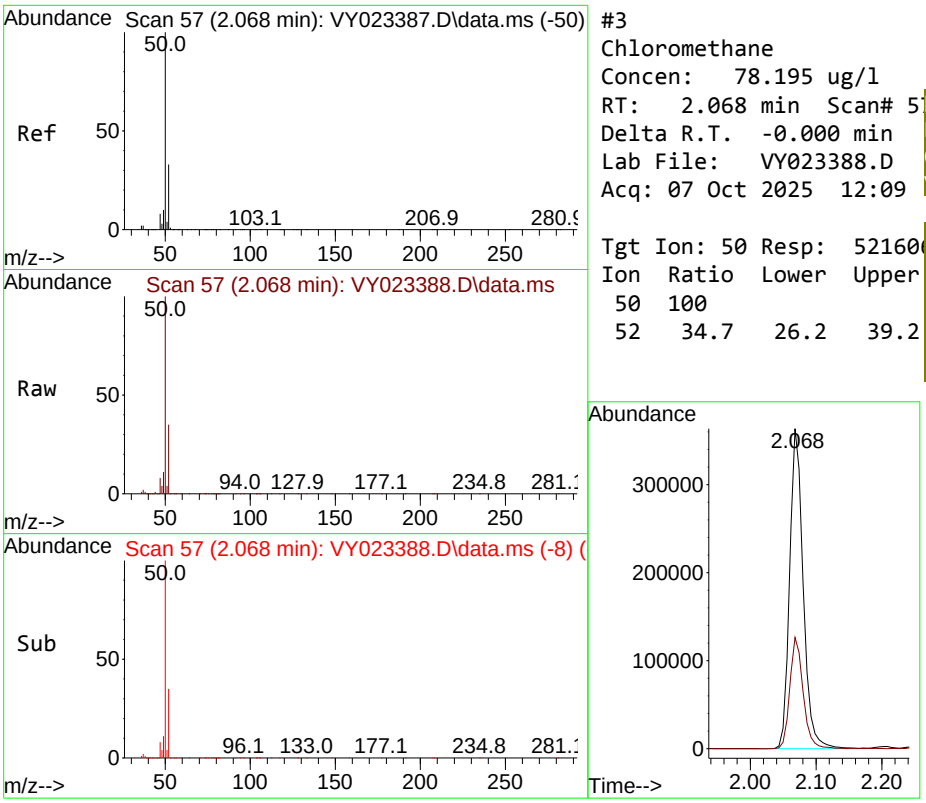
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#2
Dichlorodifluoromethane
Concen: 78.627 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 85 Resp: 368985

Ion	Ratio	Lower	Upper
85	100		
87	34.0	16.0	47.9



#3
Chloromethane
Concen: 78.195 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

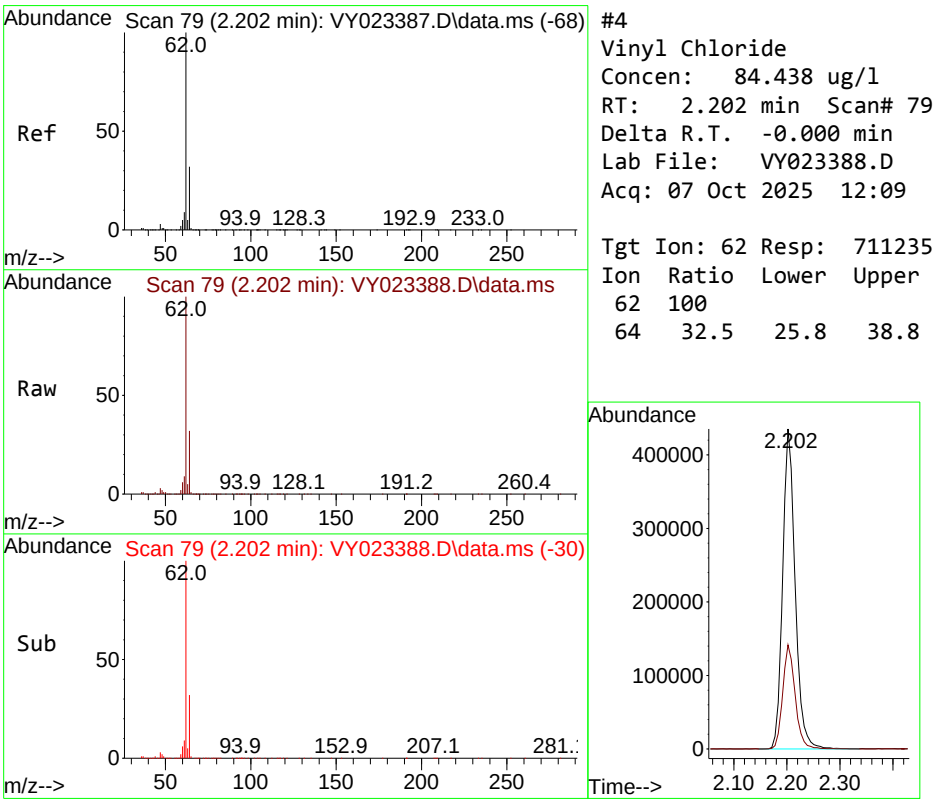
Tgt Ion: 50 Resp: 52160

Ion	Ratio	Lower	Upper
50	100		
52	34.7	26.2	39.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

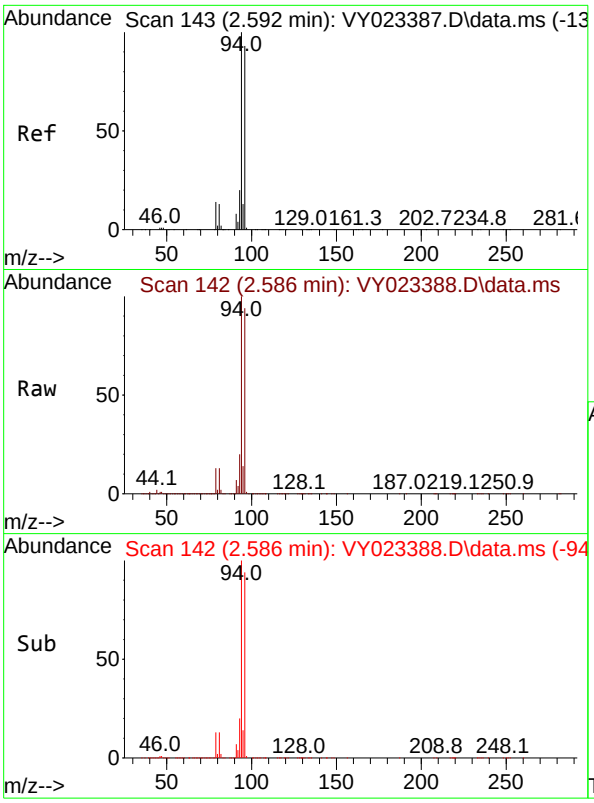
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#4
Vinyl Chloride
Concen: 84.438 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 62 Resp: 711235

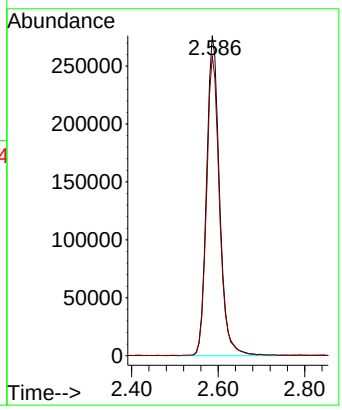
Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.8	38.8



#5
Bromomethane
Concen: 83.210 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 94 Resp: 57495

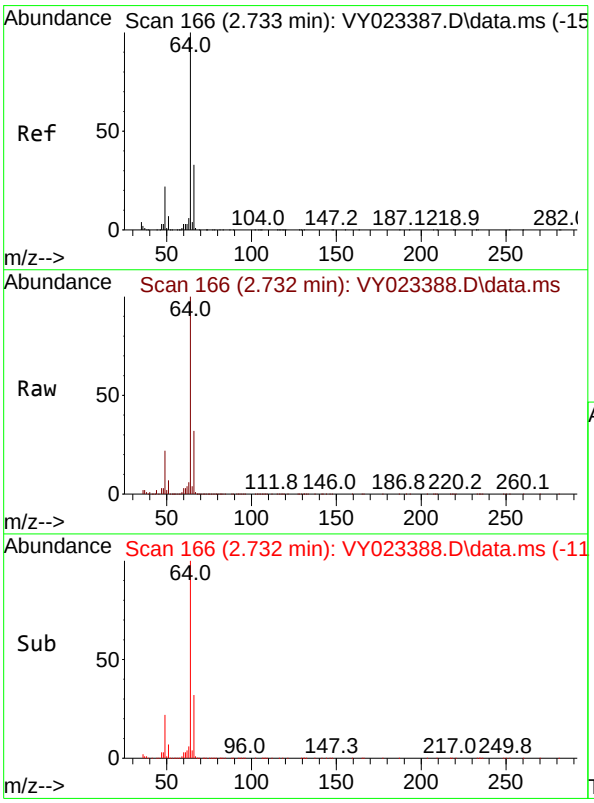
Ion	Ratio	Lower	Upper
94	100		
96	93.7	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

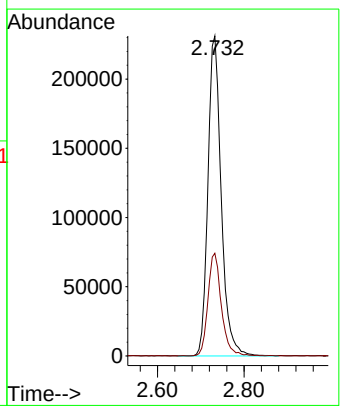
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

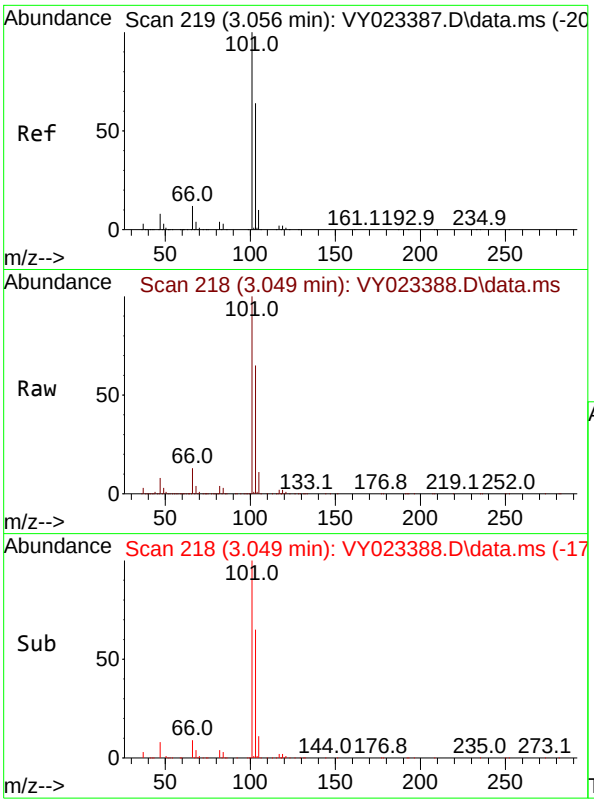


#6
Chloroethane
Concen: 85.968 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 64 Resp: 491625

Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.2	39.4

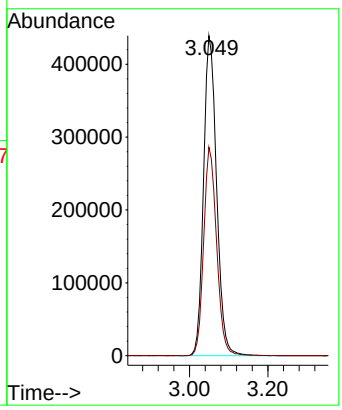




#7
Trichlorofluoromethane
Concen: 93.610 ug/l
RT: 3.049 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:101 Resp: 101285

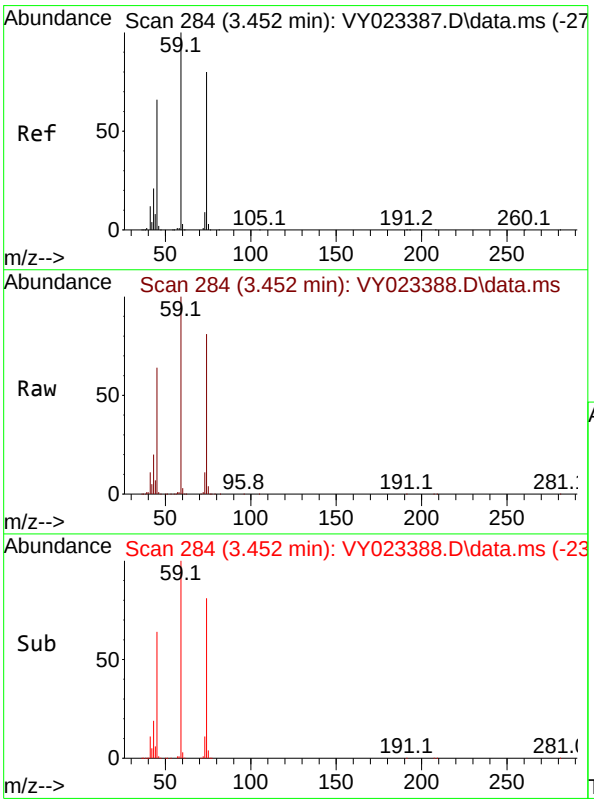
Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

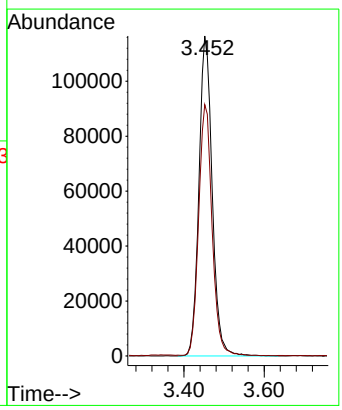
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

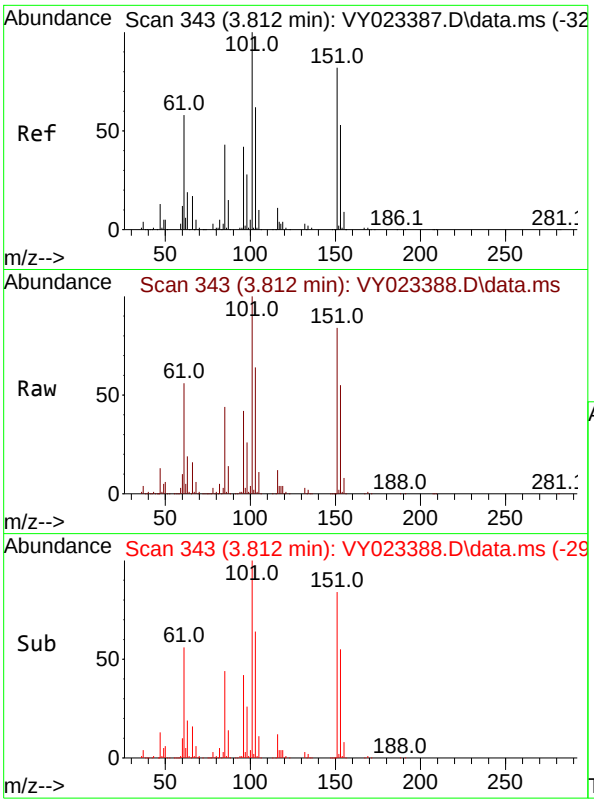


#8
Diethyl Ether
Concen: 94.266 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 74 Resp: 266779

Ion	Ratio	Lower	Upper
74	100		
45	79.9	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 88.441 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

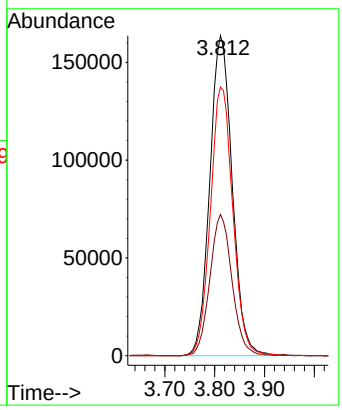
Tgt Ion:101 Resp: 51148

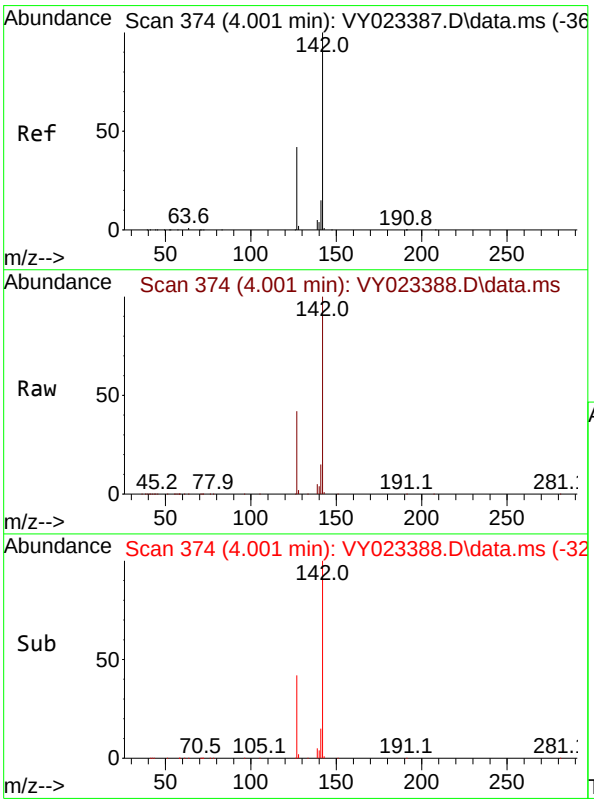
Ion	Ratio	Lower	Upper
101	100		
85	43.6	34.6	51.8
151	84.1	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

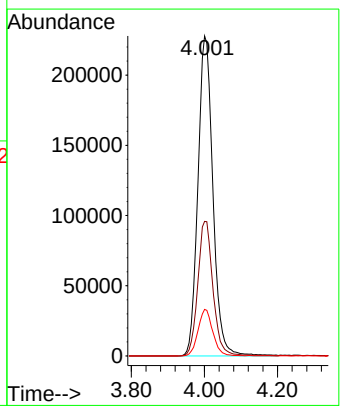


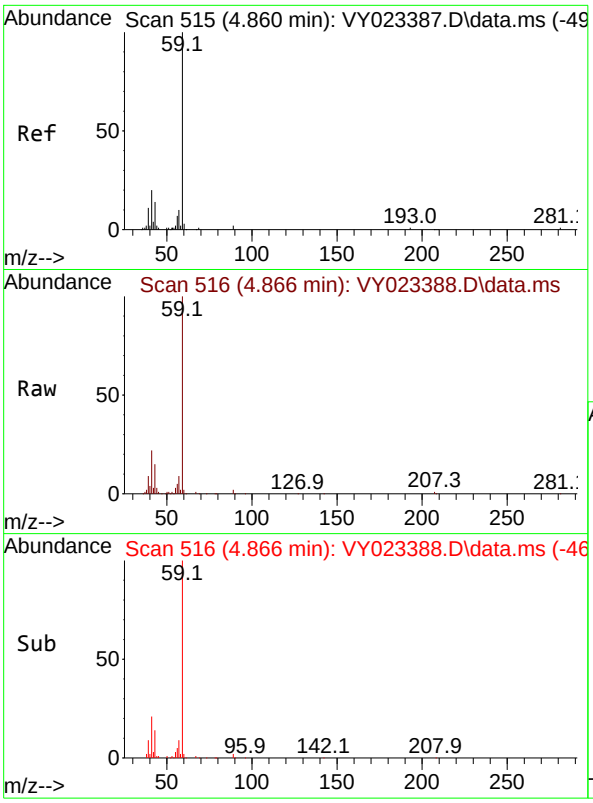


#10
Methyl Iodide
Concen: 97.495 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:142 Resp: 651575

Ion	Ratio	Lower	Upper
142	100		
127	42.7	34.8	52.2
141	14.3	11.6	17.4

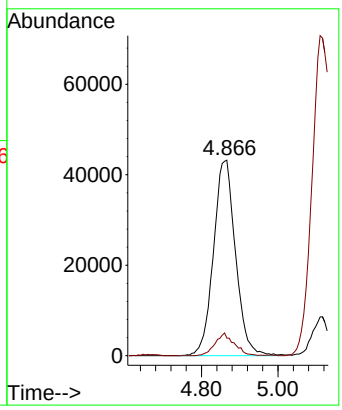




#11
Tert butyl alcohol
Concen: 568.898 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 59 Resp: 17271

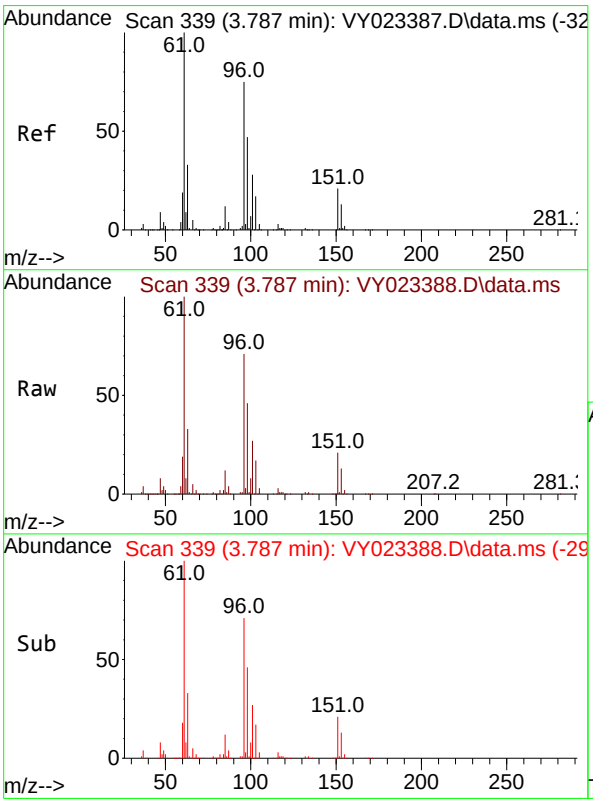
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

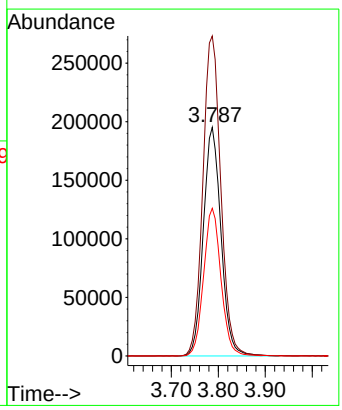
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

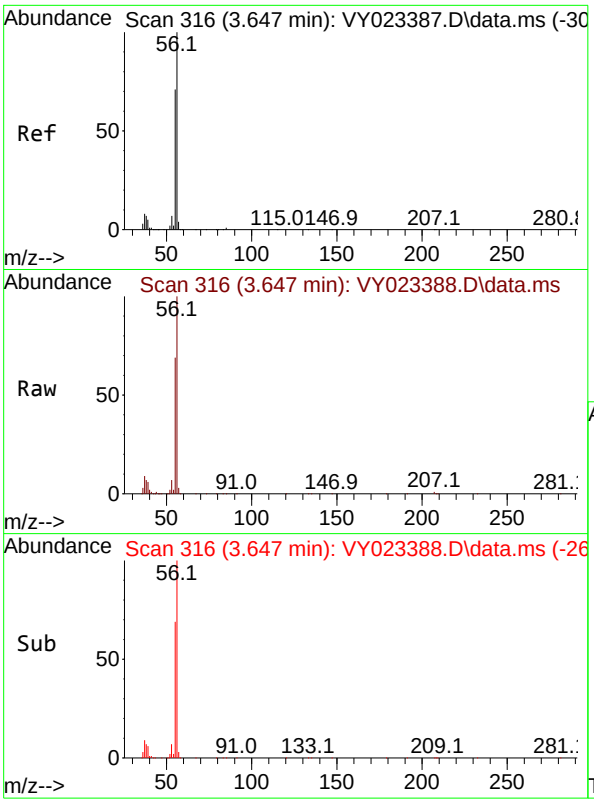


#12
1,1-Dichloroethene
Concen: 91.303 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 96 Resp: 508059

Ion	Ratio	Lower	Upper
96	100		
61	139.9	106.7	160.1
98	64.6	50.2	75.4

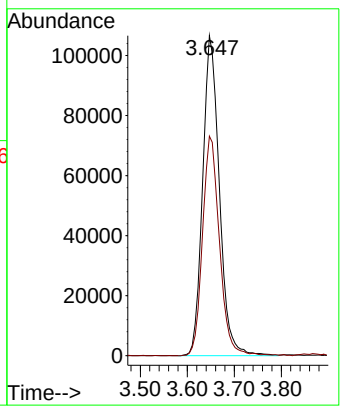




#13
Acrolein
Concen: 510.573 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 56 Resp: 26263

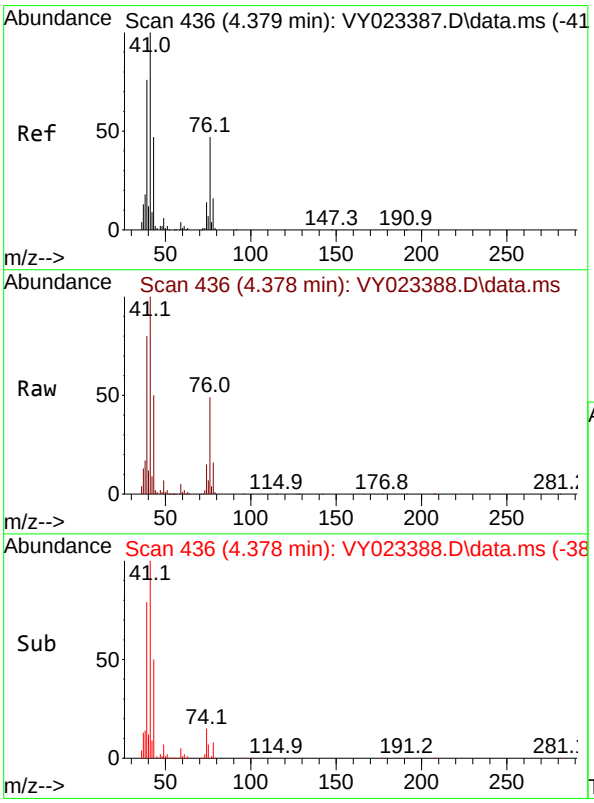
Ion	Ratio	Lower	Upper
56	100		
55	69.6	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

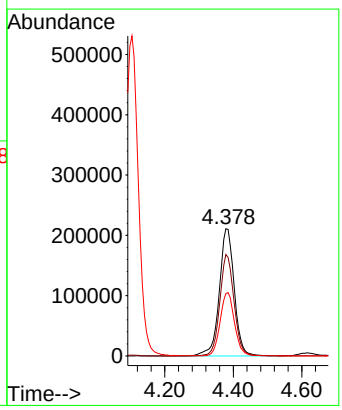
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

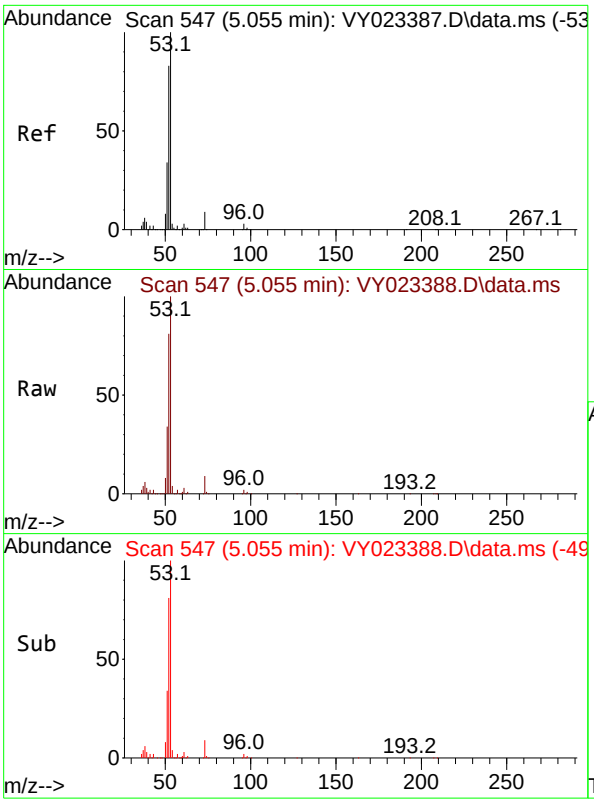


#14
Allyl chloride
Concen: 91.446 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 41 Resp: 637073

Ion	Ratio	Lower	Upper
41	100		
39	75.8	59.9	89.9
76	47.5	38.0	57.0

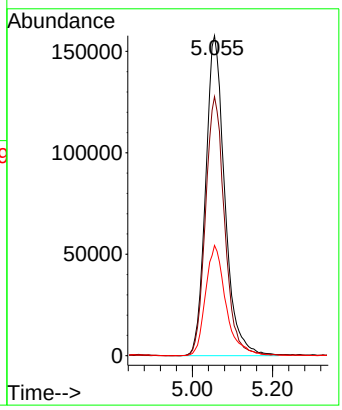




#15
Acrylonitrile
Concen: 471.296 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 53 Resp: 52251

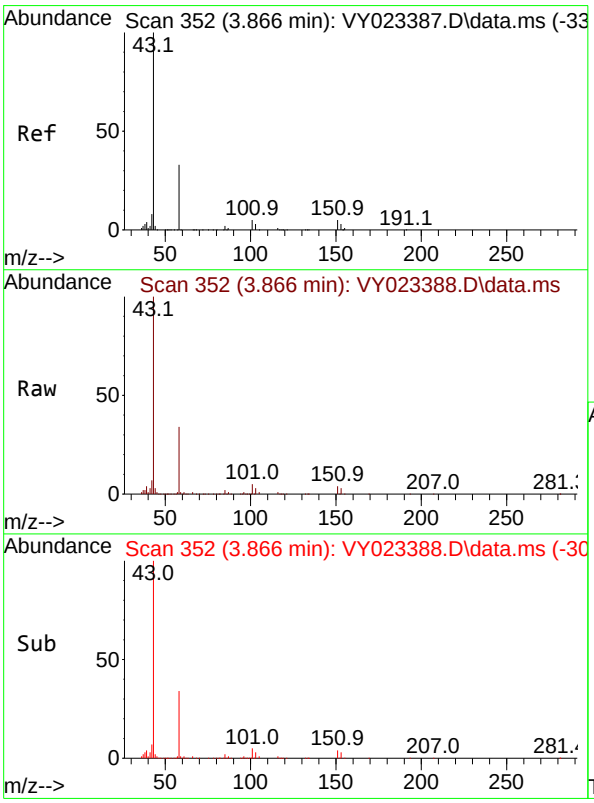
Ion	Ratio	Lower	Upper
53	100		
52	81.2	64.6	97.0
51	36.7	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

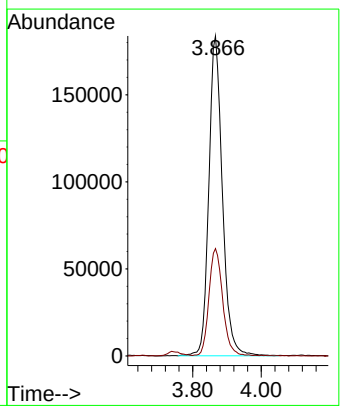
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

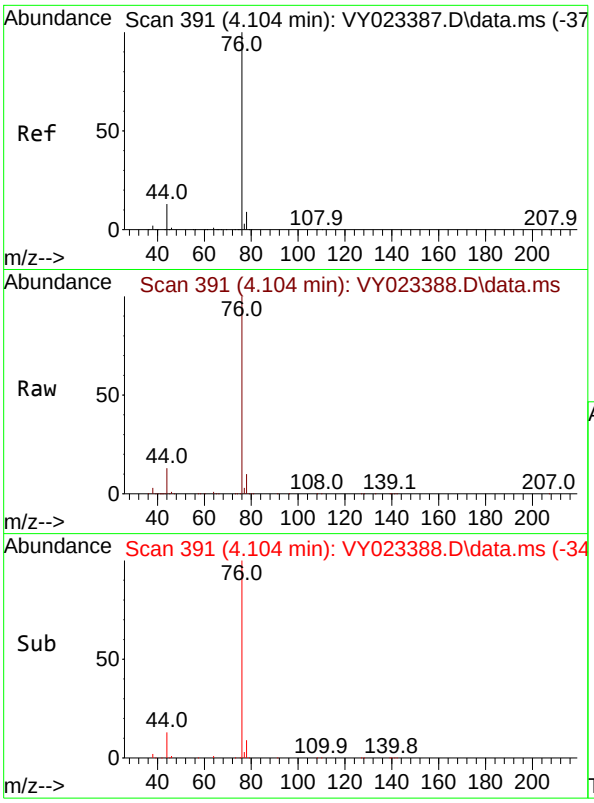


#16
Acetone
Concen: 435.004 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 504700

Ion	Ratio	Lower	Upper
43	100		
58	33.5	27.7	41.5

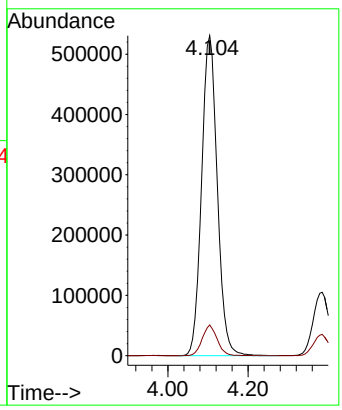




#17
Carbon Disulfide
Concen: 83.061 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 76 Resp: 144200

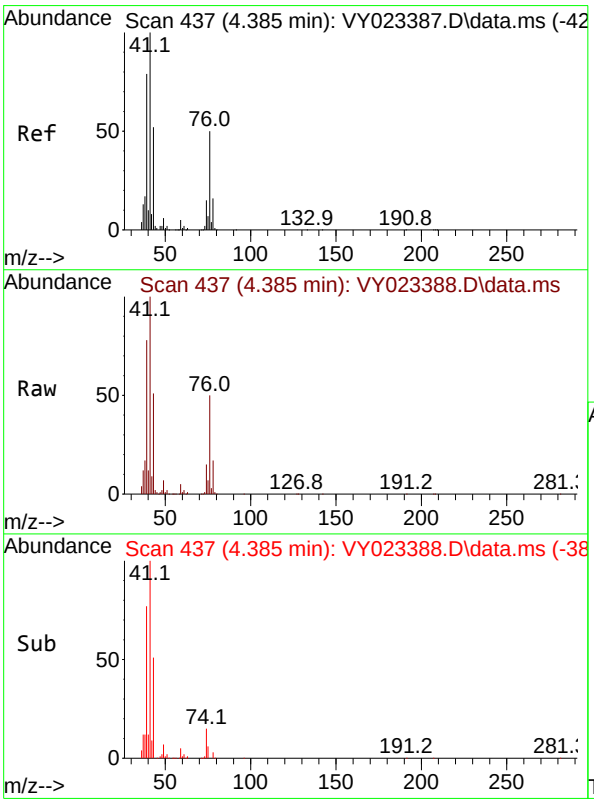
Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

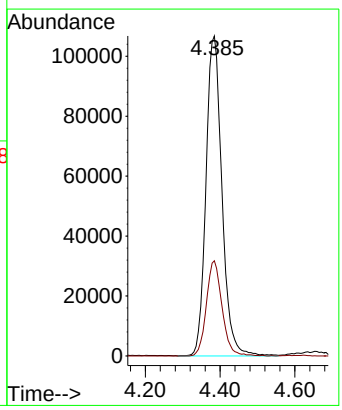
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

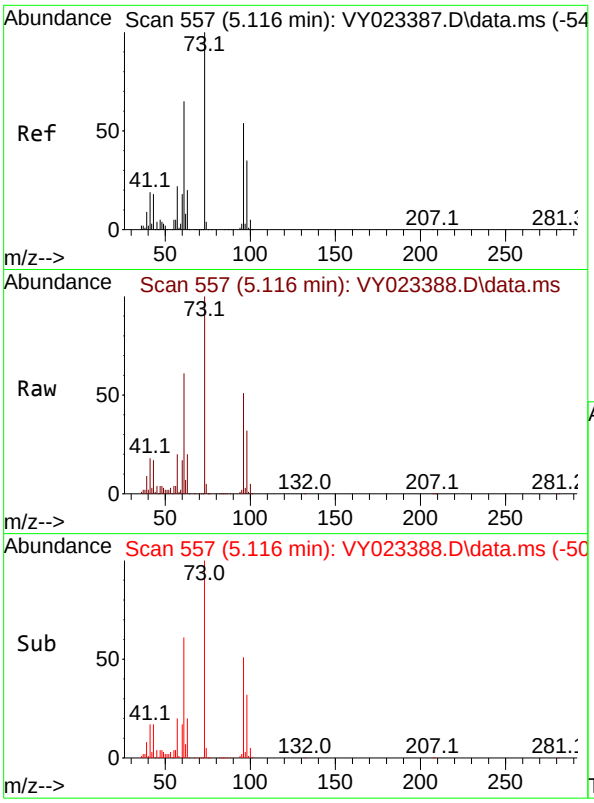


#18
Methyl Acetate
Concen: 107.474 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 316911

Ion	Ratio	Lower	Upper
43	100		
74	29.1	24.2	36.4

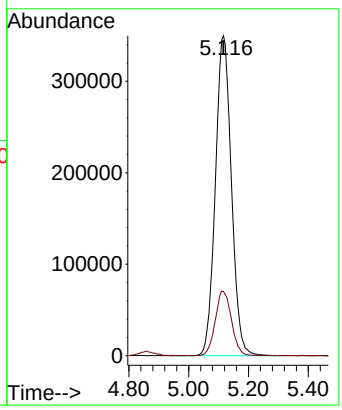




#19
Methyl tert-butyl Ether
Concen: 99.797 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 73 Resp: 130020

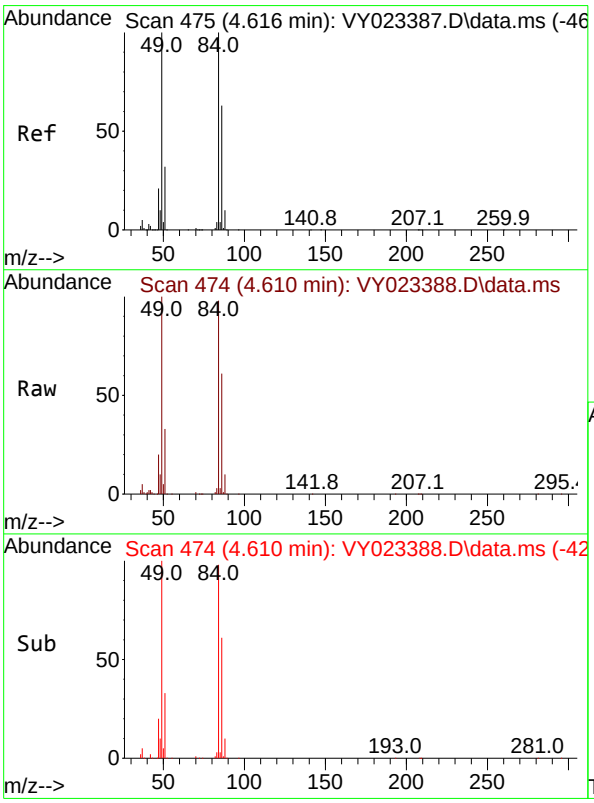
Ion	Ratio	Lower	Upper
73	100		
57	20.1	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

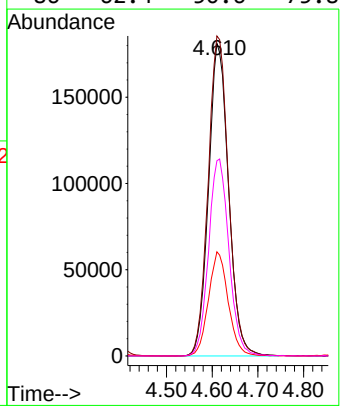
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

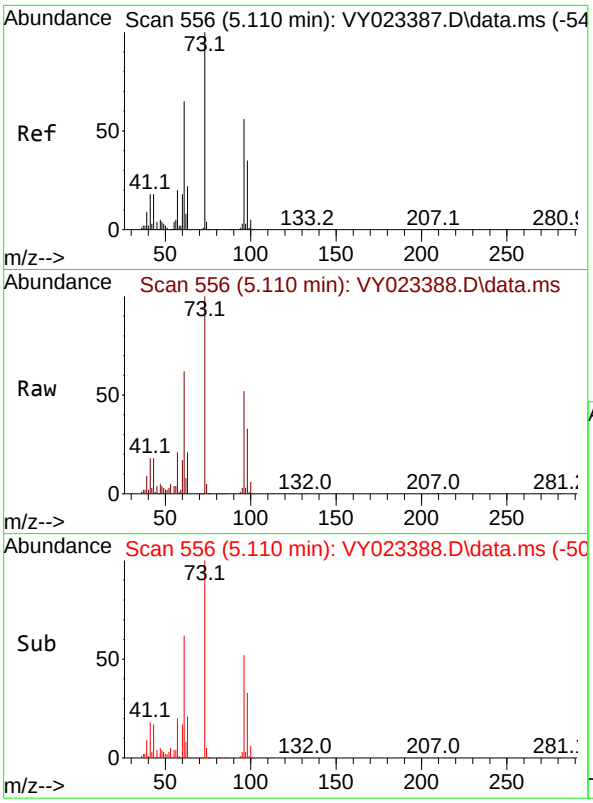


#20
Methylene Chloride
Concen: 87.742 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 84 Resp: 552018

Ion	Ratio	Lower	Upper
84	100		
49	102.4	80.2	120.4
51	33.3	25.9	38.9
86	62.4	50.6	75.8

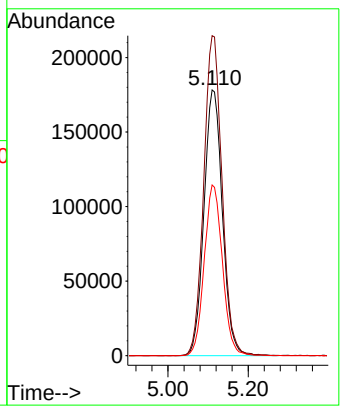




#21
trans-1,2-Dichloroethene
Concen: 91.999 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 96 Resp: 56933

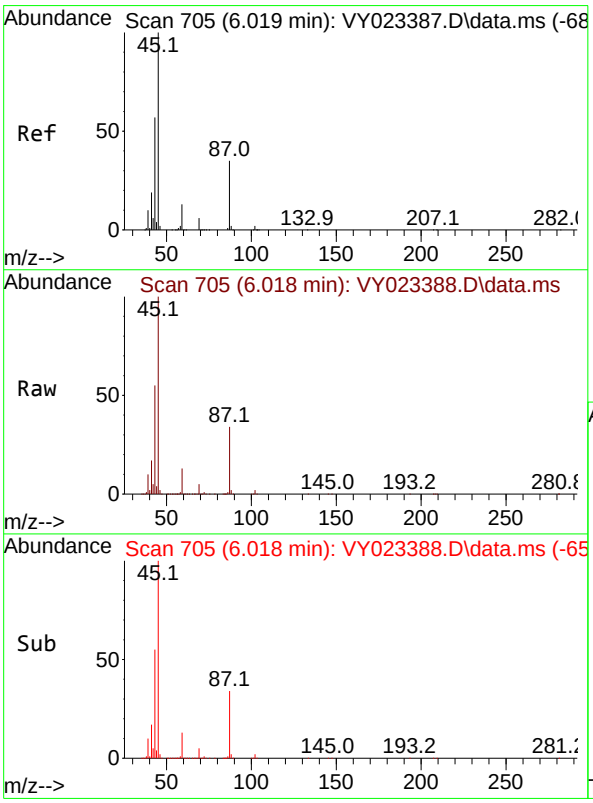
Ion	Ratio	Lower	Upper
96	100		
61	120.4	92.7	139.1
98	64.2	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

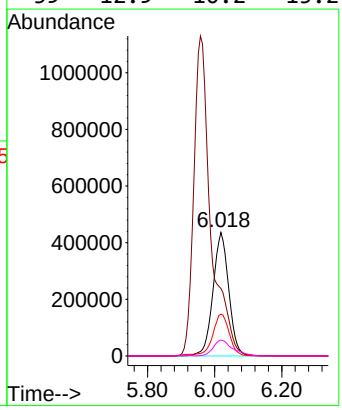
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

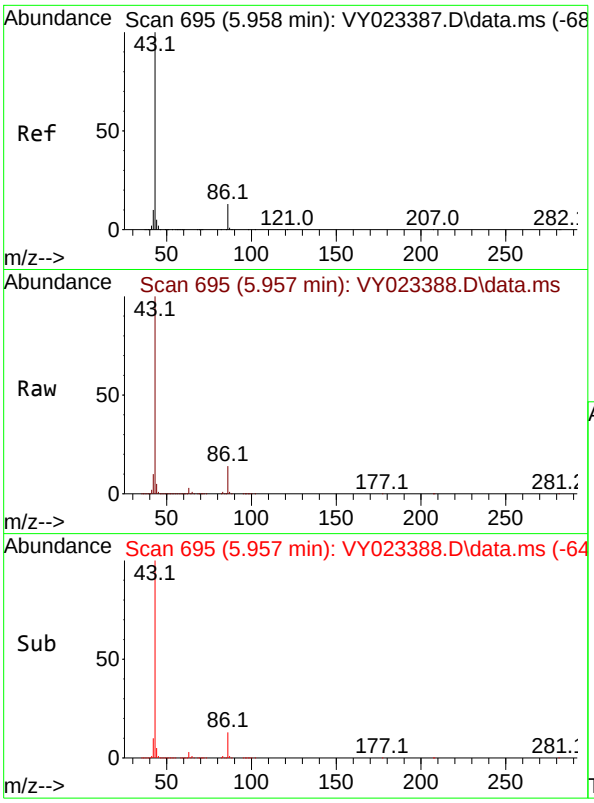


#22
Diisopropyl ether
Concen: 92.133 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 45 Resp: 1423347

Ion	Ratio	Lower	Upper
45	100		
43	54.4	45.6	68.4
87	33.8	28.1	42.1
59	12.9	10.2	15.2





#23
Vinyl Acetate
Concen: 468.098 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

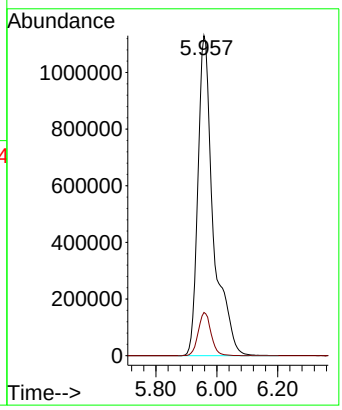
Tgt Ion: 43 Resp: 397505

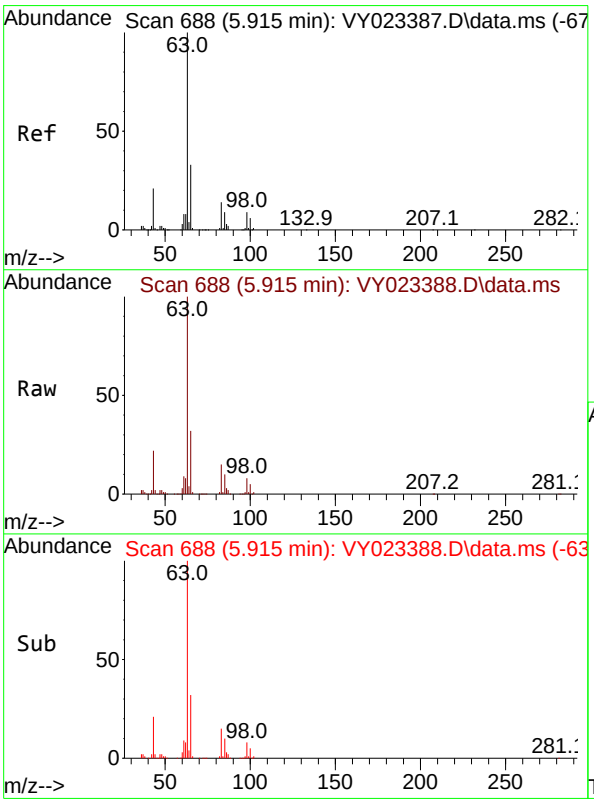
Ion	Ratio	Lower	Upper
43	100		
86	13.5	10.6	15.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

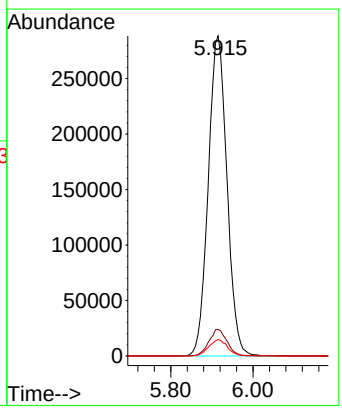


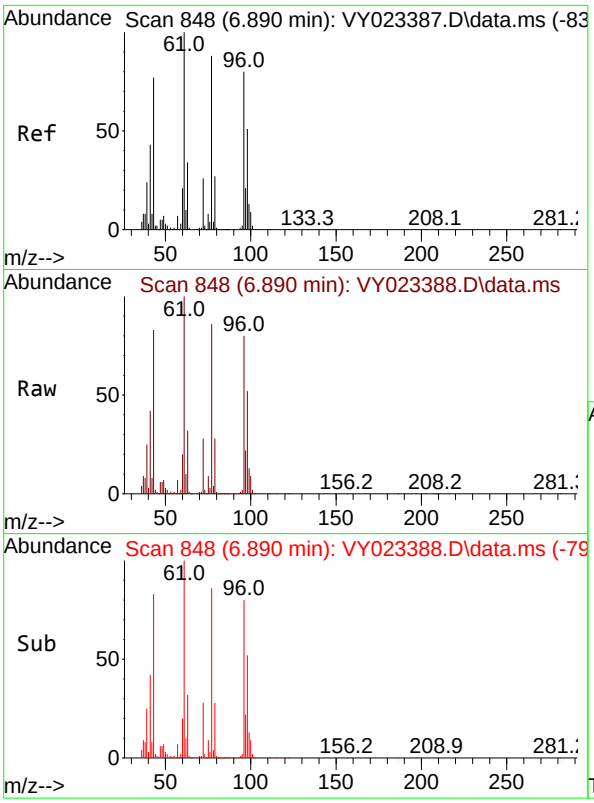


#24
1,1-Dichloroethane
Concen: 89.517 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 63 Resp: 911619

Ion	Ratio	Lower	Upper
63	100		
98	8.3	4.3	13.1
100	5.1	2.8	8.4





#25
2-Butanone
Concen: 478.154 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

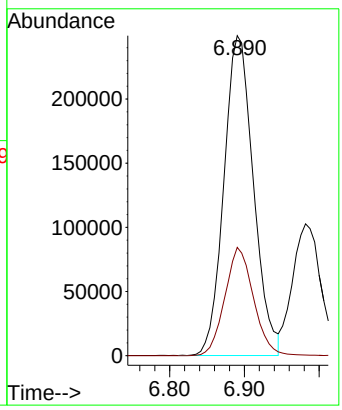
Tgt Ion: 43 Resp: 68569

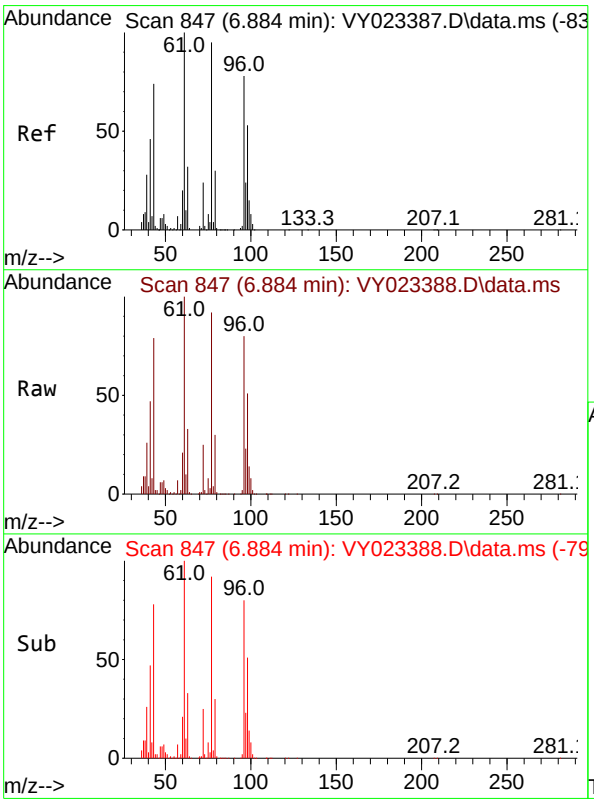
Ion	Ratio	Lower	Upper
43	100		
72	33.9	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

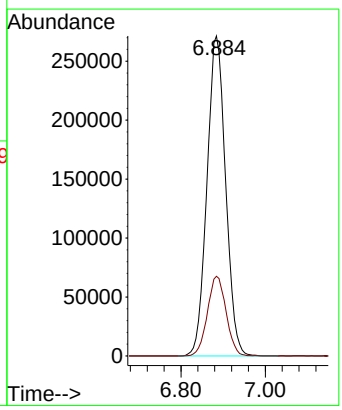


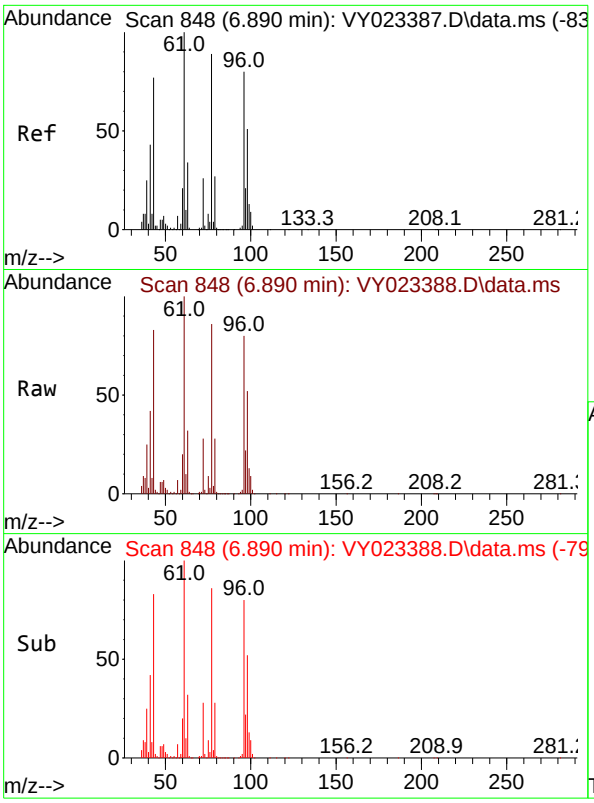


#26
2,2-Dichloropropane
Concen: 92.108 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 77 Resp: 833452

Ion	Ratio	Lower	Upper
77	100		
97	25.0	12.1	36.3

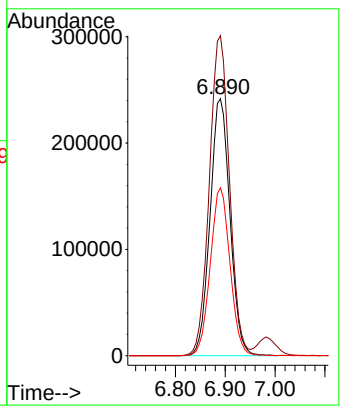




#27
cis-1,2-Dichloroethene
Concen: 95.557 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 96 Resp: 67077

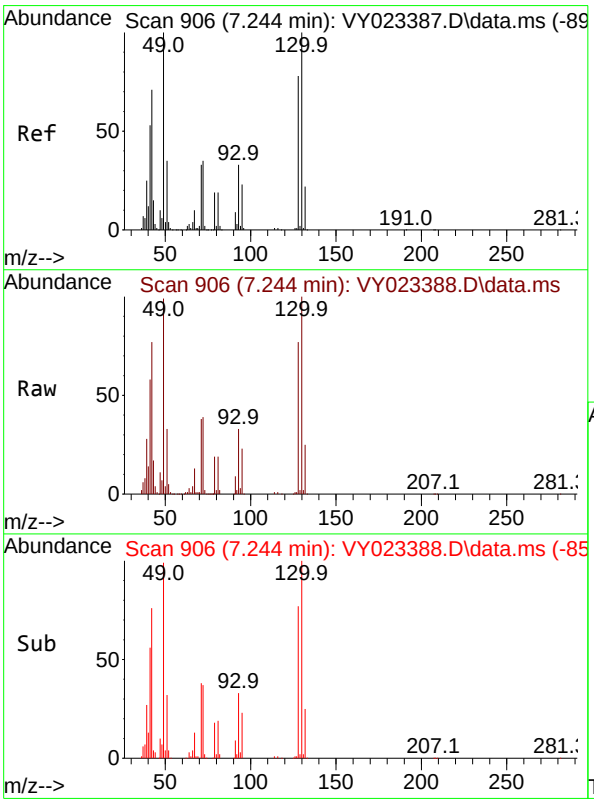
Ion	Ratio	Lower	Upper
96	100		
61	125.9	0.0	258.2
98	64.7	0.0	132.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

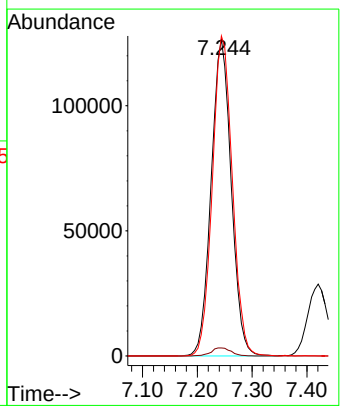
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

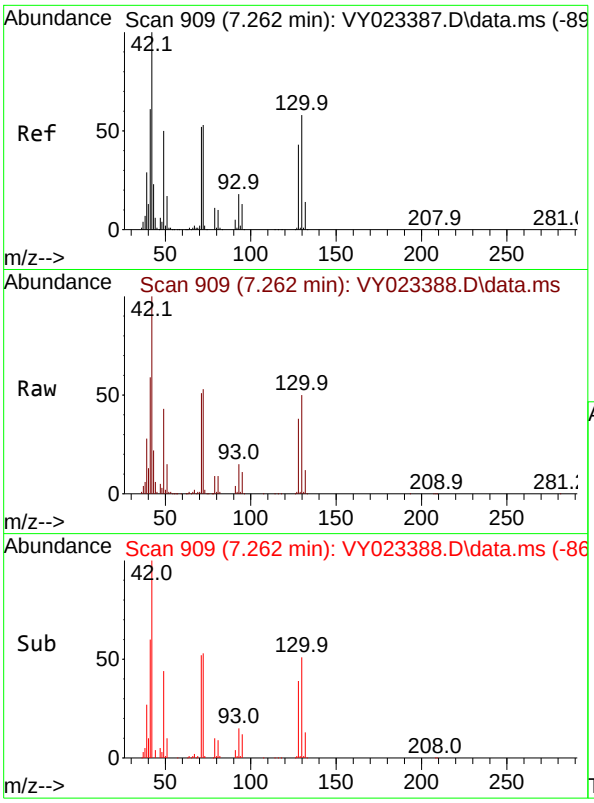


#28
Bromochloromethane
Concen: 81.418 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 49 Resp: 321657

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	5.6
130	100.9	81.9	122.9

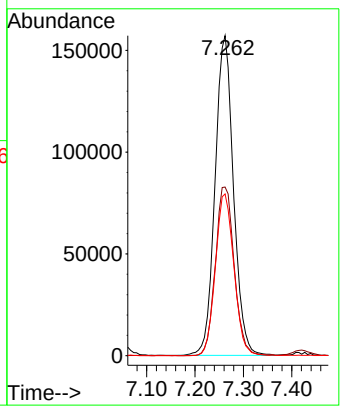




#29
Tetrahydrofuran
Concen: 488.587 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 42 Resp: 41586

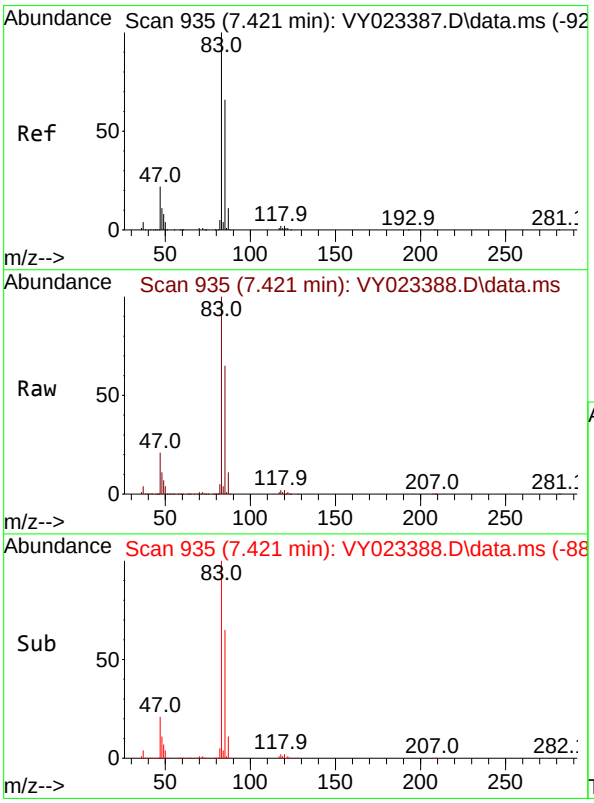
Ion	Ratio	Lower	Upper
42	100		
72	54.1	43.0	64.6
71	50.9	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

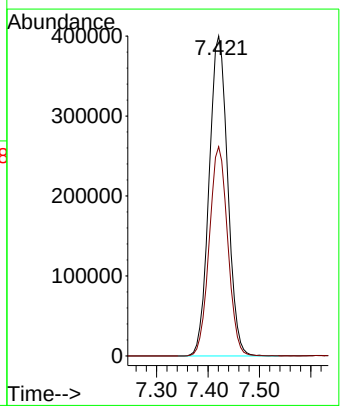
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

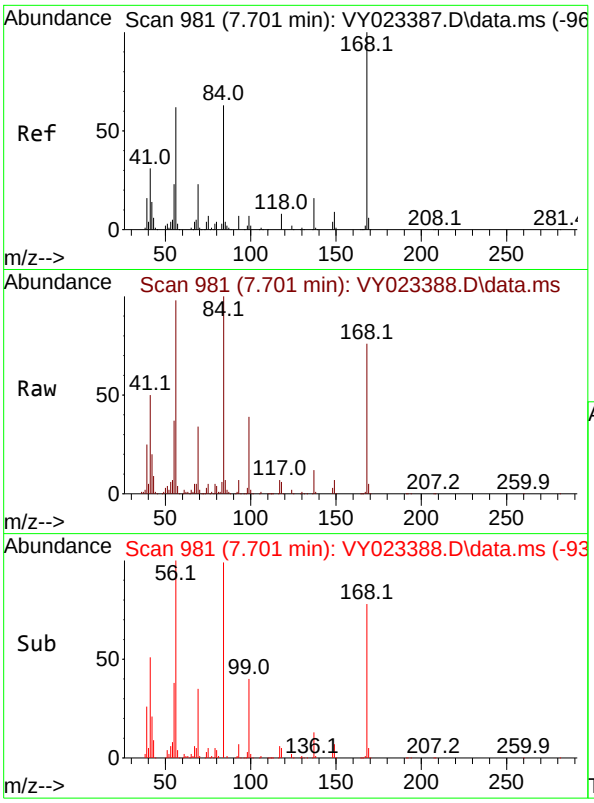


#30
Chloroform
Concen: 91.401 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 83 Resp: 1003722

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.5	78.7

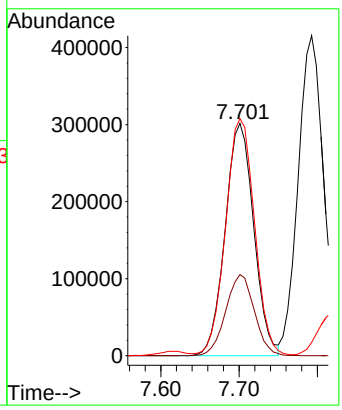




#31
Cyclohexane
Concen: 85.293 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 56 Resp: 76708

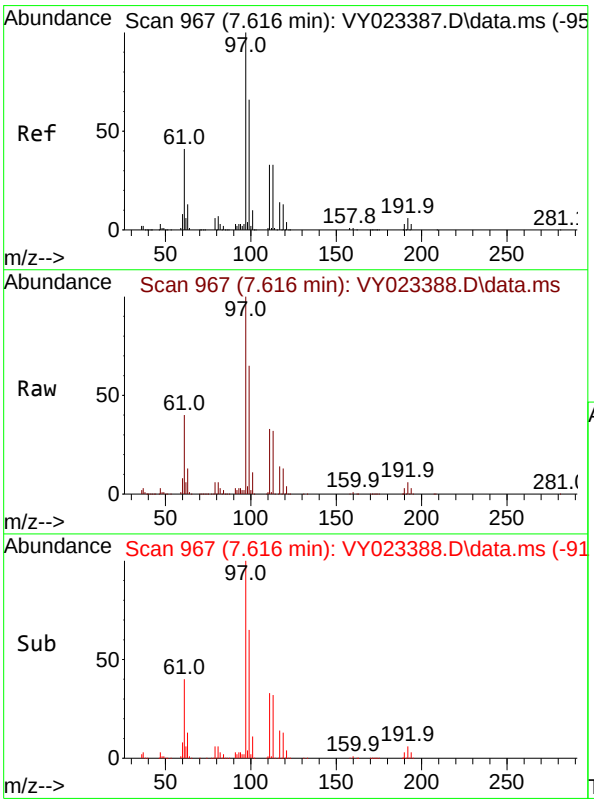
Ion	Ratio	Lower	Upper
56	100		
69	34.9	30.0	45.0
84	100.2	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

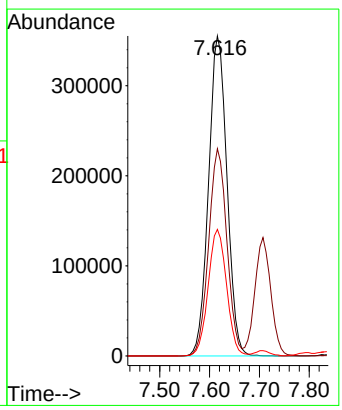
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

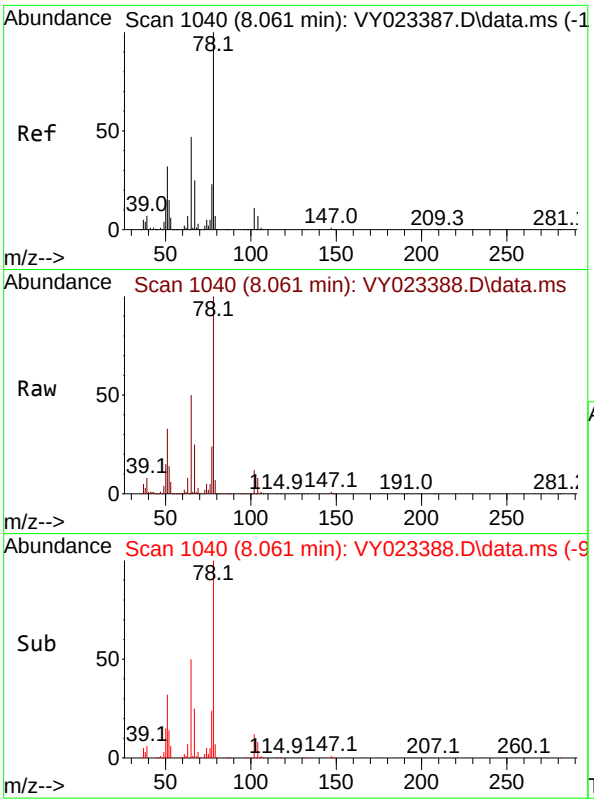


#32
1,1,1-Trichloroethane
Concen: 92.399 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 97 Resp: 910837

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.2
61	39.7	31.9	47.9

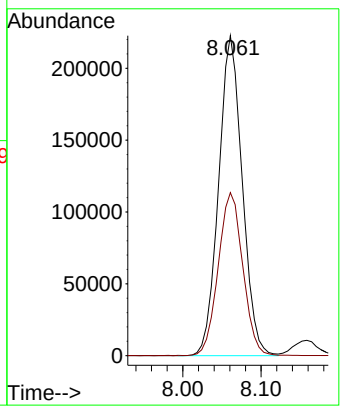




#33
1,2-Dichloroethane-d4
Concen: 90.510 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 65 Resp: 46700

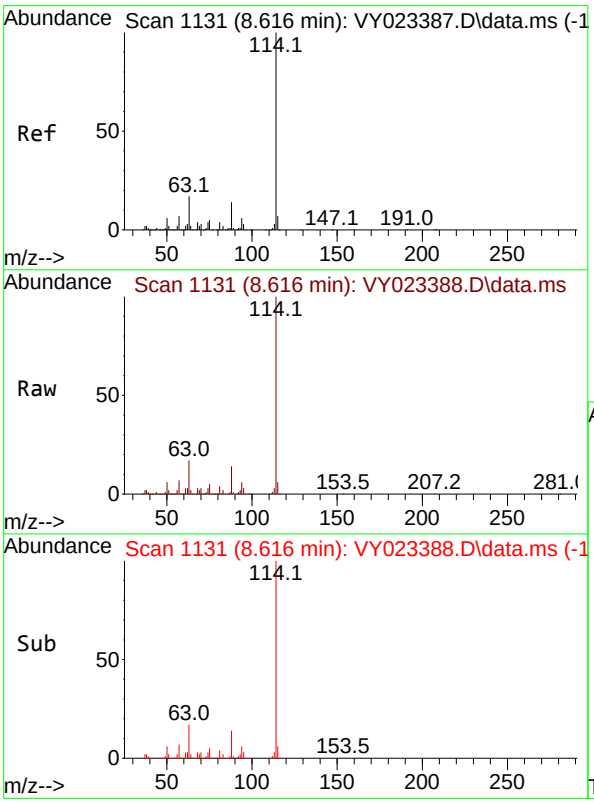
Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

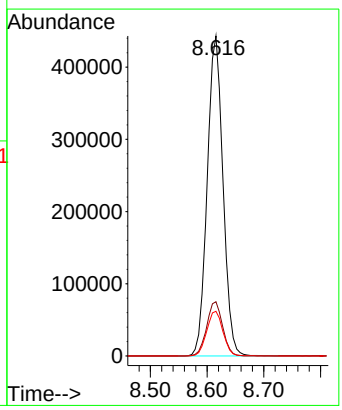
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

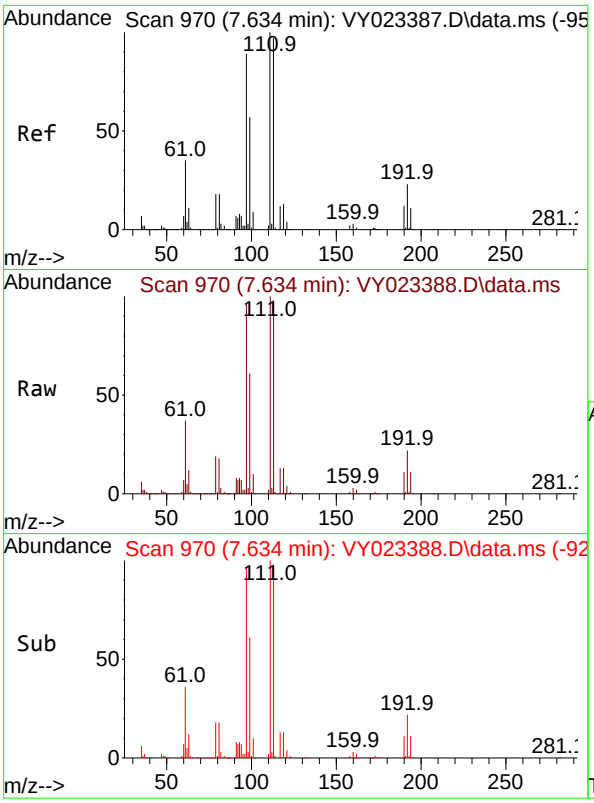


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:114 Resp: 855682

Ion	Ratio	Lower	Upper
114	100		
63	17.0	0.0	34.2
88	13.9	0.0	28.4





#35
Dibromofluoromethane
Concen: 98.497 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

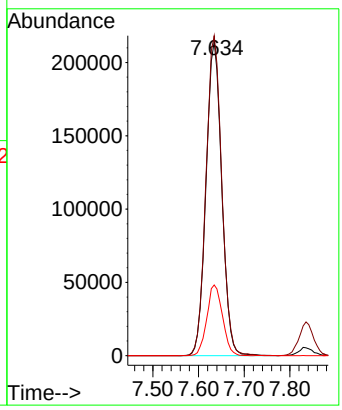
Tgt Ion:113 Resp: 51147

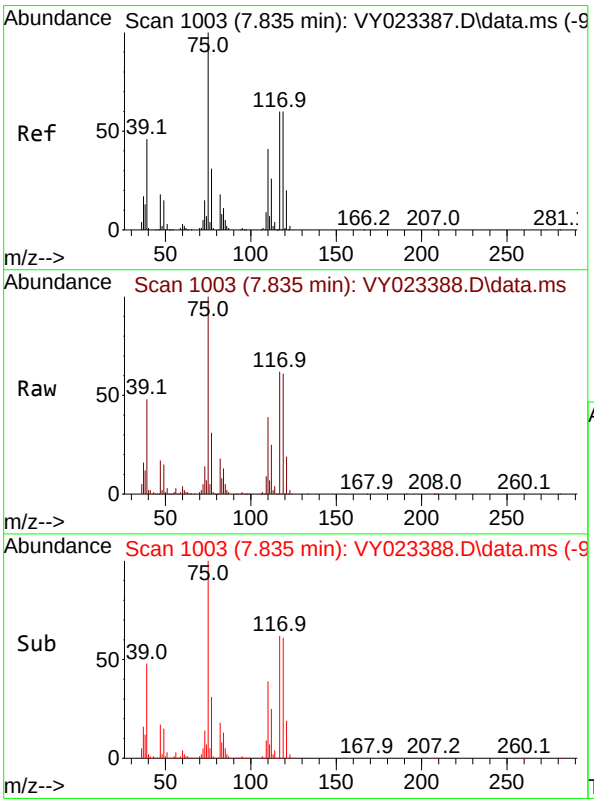
Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.8	122.6
192	22.5	18.0	27.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

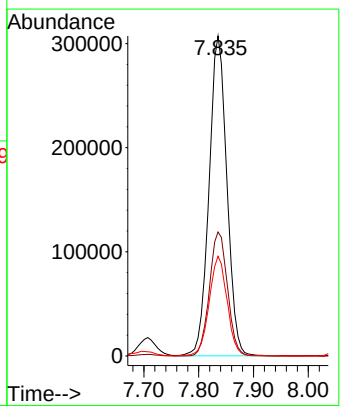


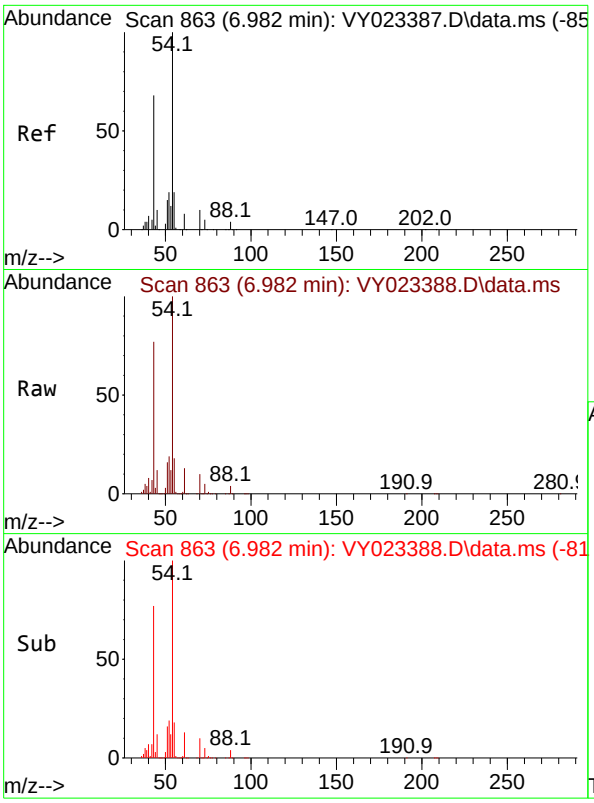


#36
1,1-Dichloropropene
Concen: 94.516 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 692477

Ion	Ratio	Lower	Upper
75	100		
110	39.2	19.9	59.7
77	31.4	25.0	37.6





#37
Ethyl Acetate
Concen: 96.859 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

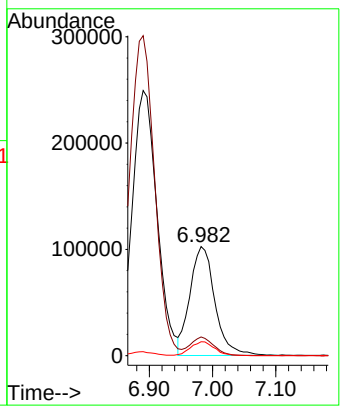
Tgt Ion: 43 Resp: 28056

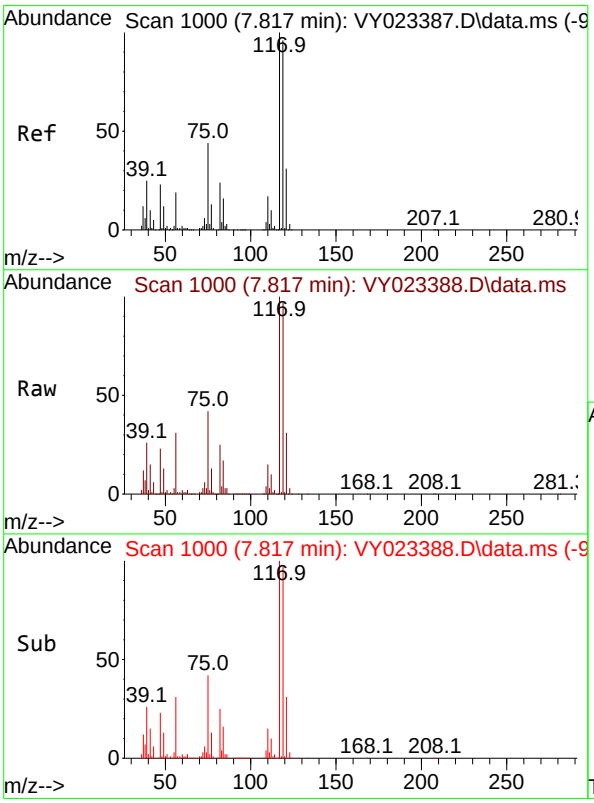
Ion	Ratio	Lower	Upper
43	100		
61	15.9	11.8	17.8
70	12.4	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

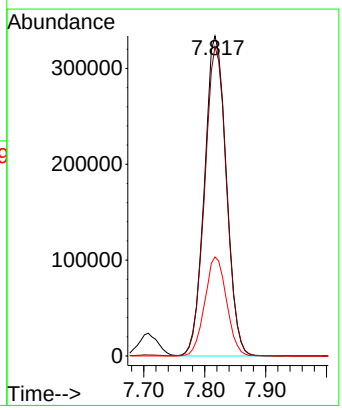


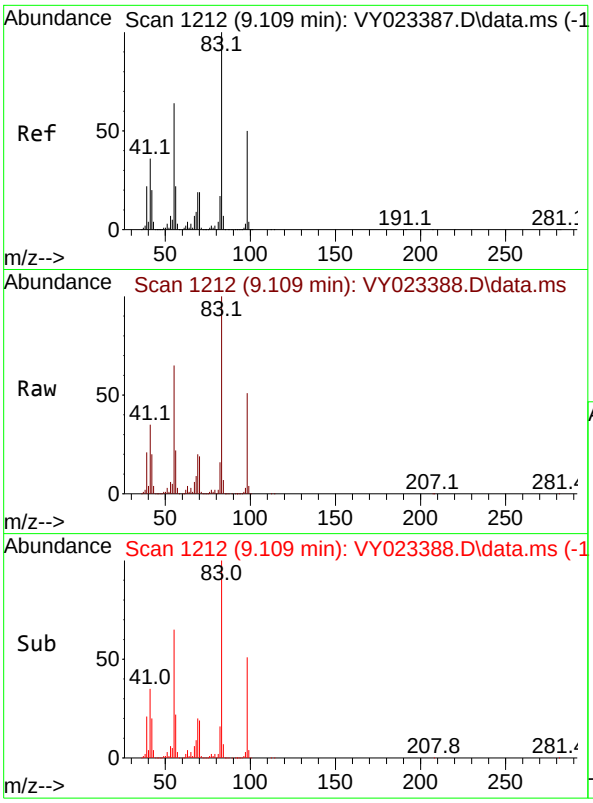


#38
Carbon Tetrachloride
Concen: 97.894 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:117 Resp: 833170

Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.8	115.2
121	30.9	24.5	36.7

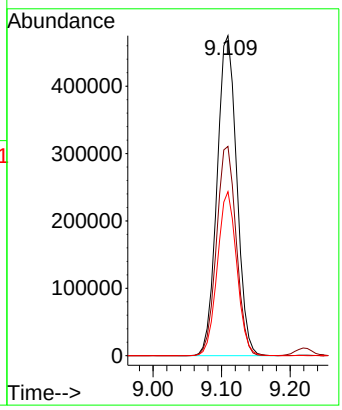




#39
Methylcyclohexane
Concen: 101.024 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 83 Resp: 94766

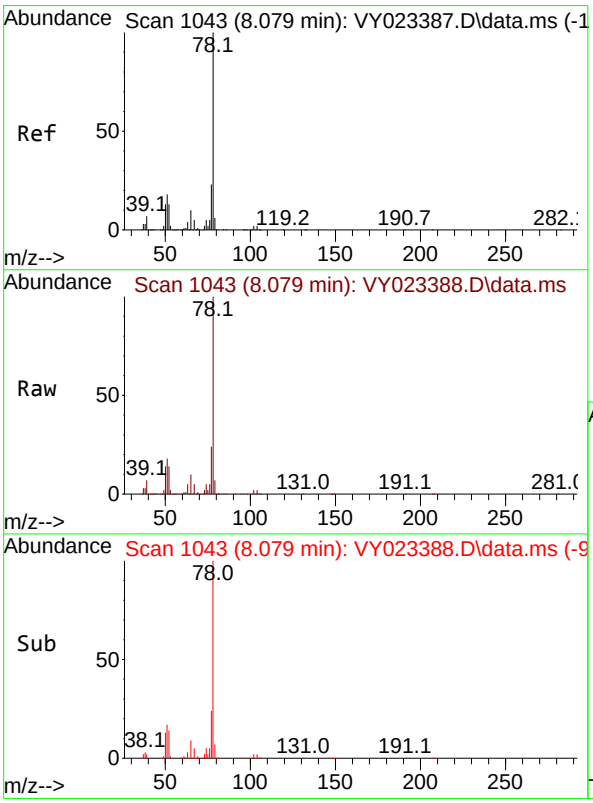
Ion	Ratio	Lower	Upper
83	100		
55	65.4	51.4	77.2
98	51.3	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

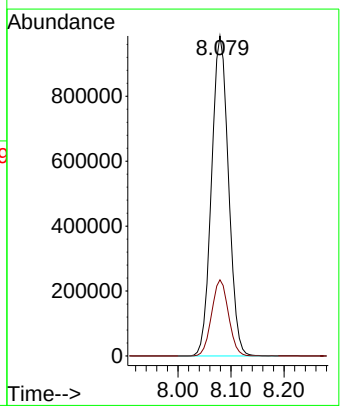
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

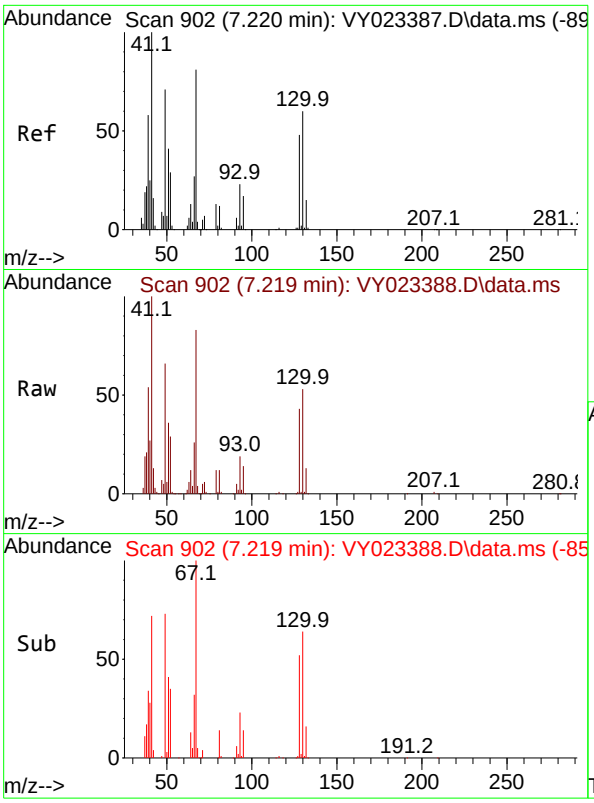


#40
Benzene
Concen: 96.000 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 78 Resp: 2192645

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.3	27.5

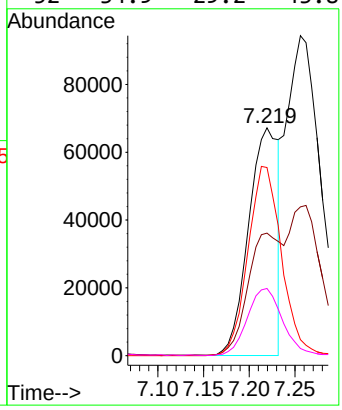




#41
Methacrylonitrile
Concen: 101.200 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 41 Resp: 15223

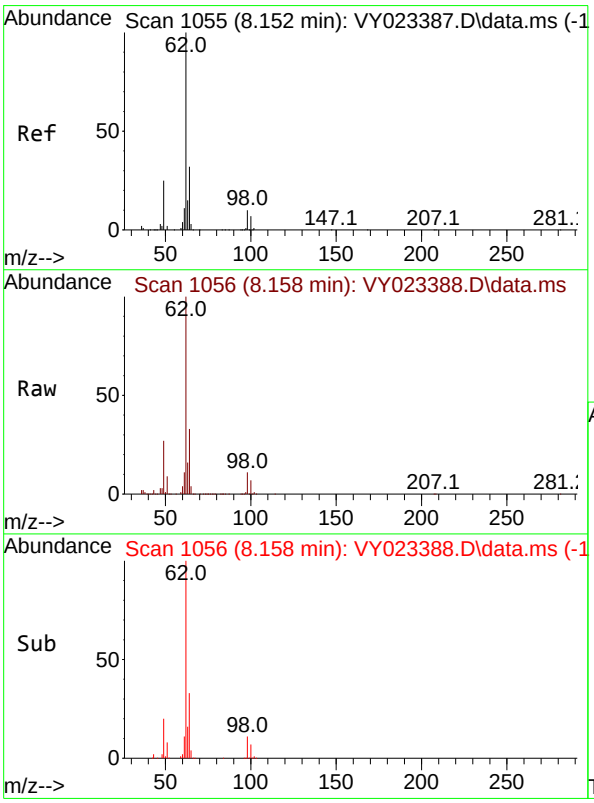
Ion	Ratio	Lower	Upper
41	100		
39	62.6	52.2	78.4
67	93.9	74.9	112.3
52	34.9	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

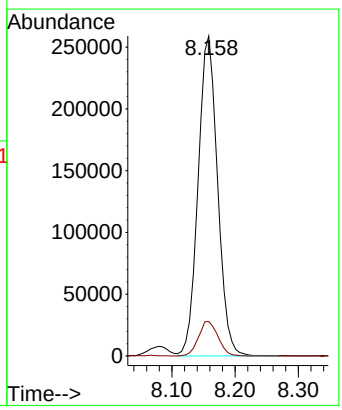
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

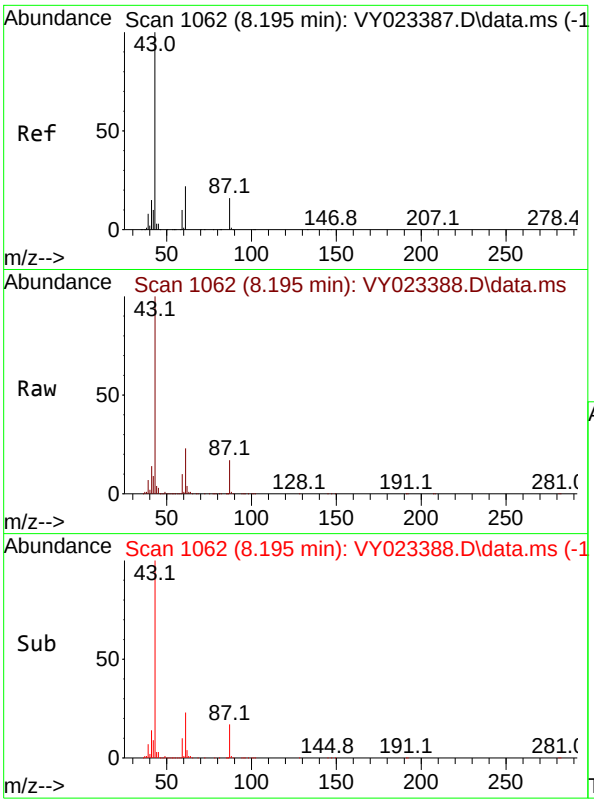


#42
1,2-Dichloroethane
Concen: 95.449 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 62 Resp: 554810

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	21.6

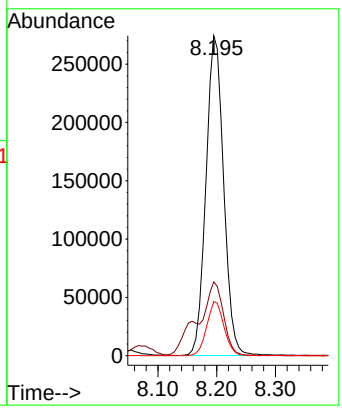




#43
Isopropyl Acetate
Concen: 101.815 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 57365

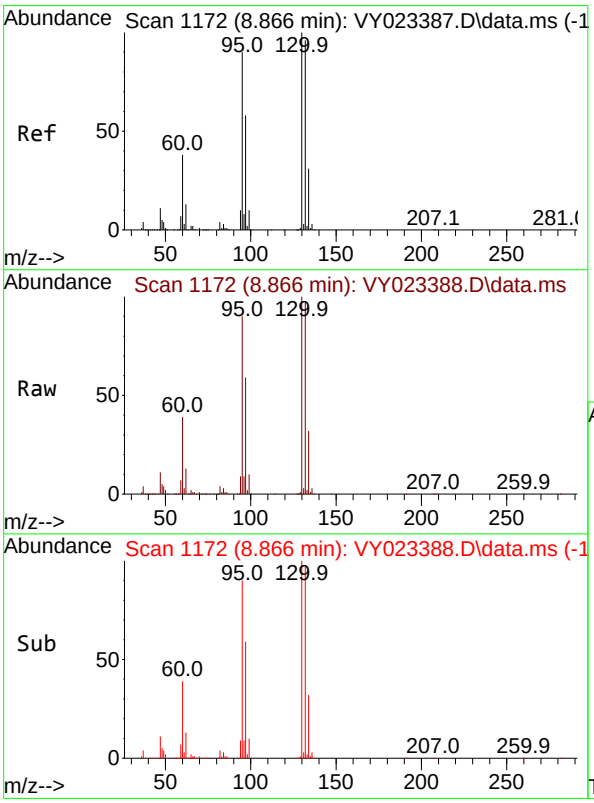
Ion	Ratio	Lower	Upper
43	100		
61	23.0	18.1	27.1
87	16.6	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

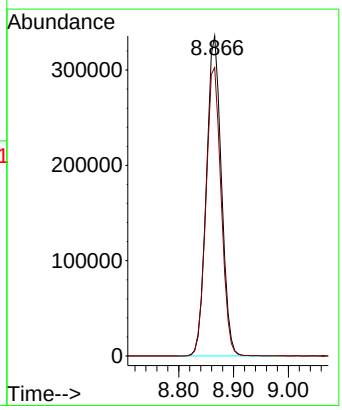
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

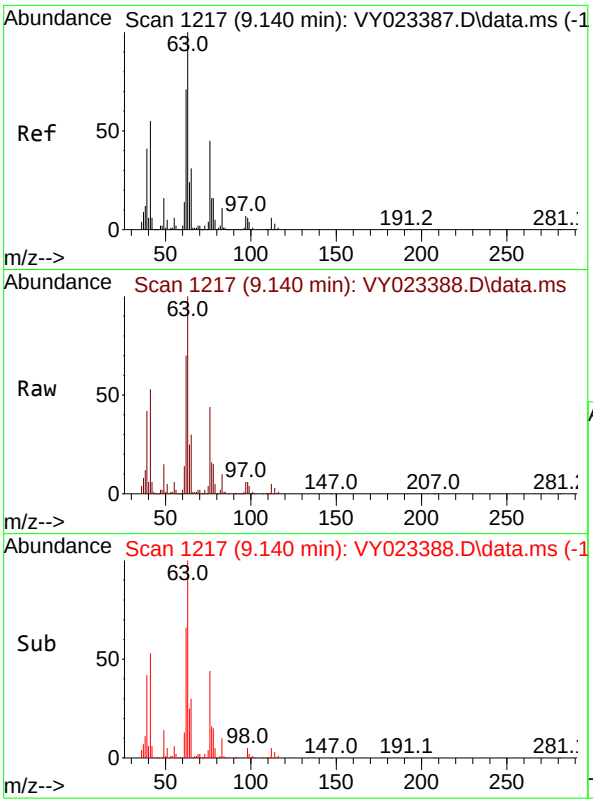


#44
Trichloroethene
Concen: 99.245 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:130 Resp: 636149

Ion	Ratio	Lower	Upper
130	100		
95	90.1	0.0	180.6

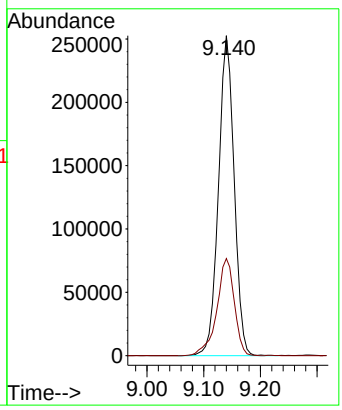




#45
1,2-Dichloropropane
Concen: 94.381 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 63 Resp: 48508

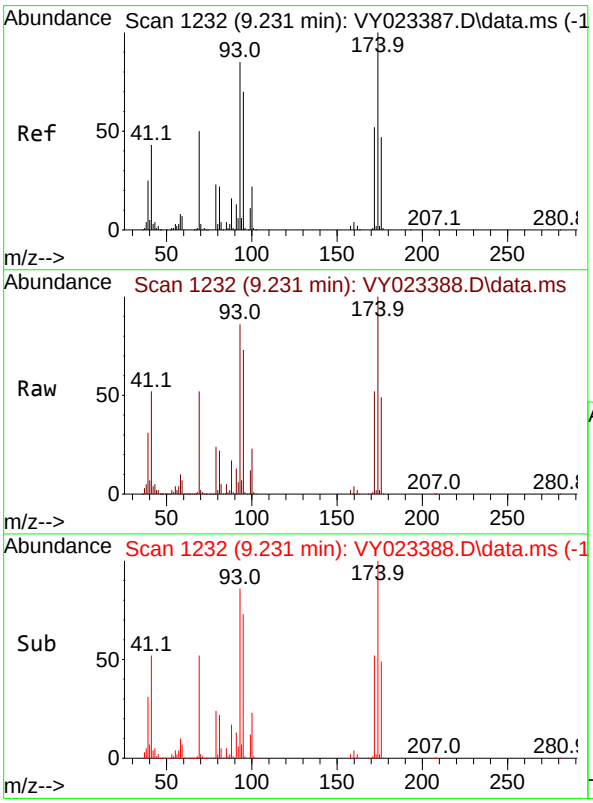
Ion	Ratio	Lower	Upper
63	100		
65	30.3	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

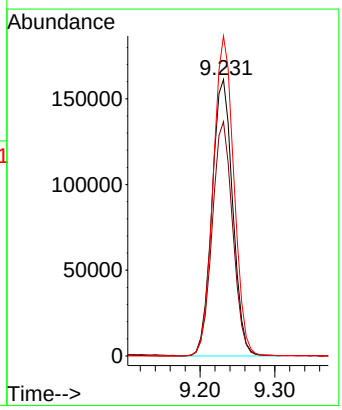
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

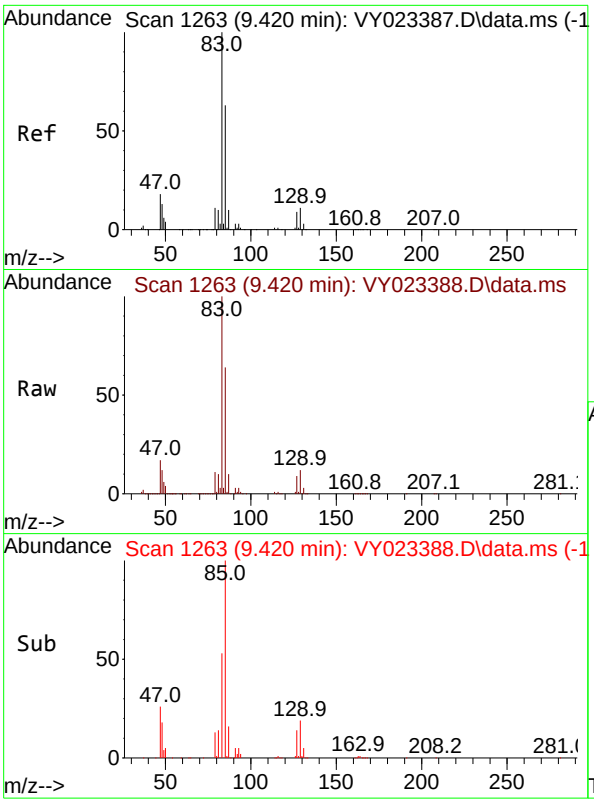


#46
Dibromomethane
Concen: 98.596 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 93 Resp: 309964

Ion	Ratio	Lower	Upper
93	100		
95	83.8	65.4	98.0
174	115.6	92.9	139.3

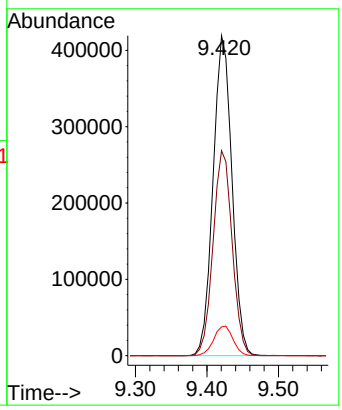




#47
Bromodichloromethane
Concen: 97.210 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 83 Resp: 76923

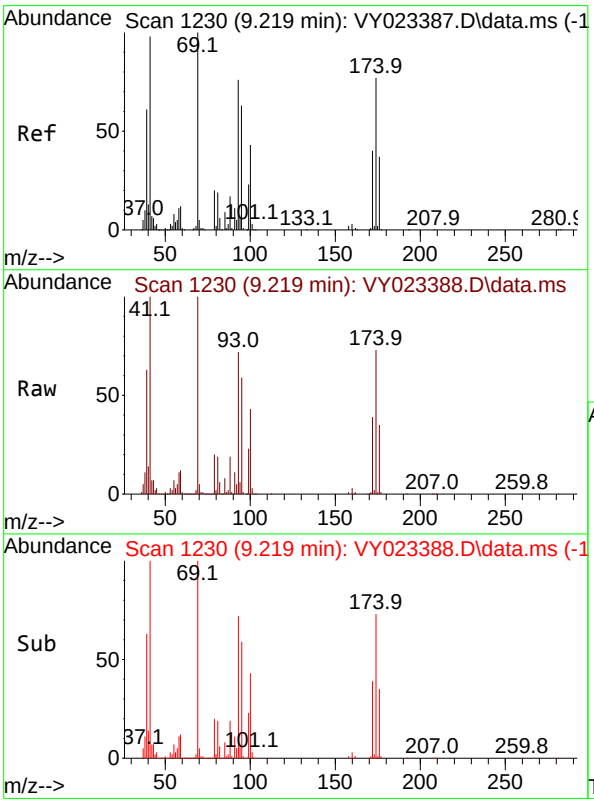
Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.8	76.2
127	9.0	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

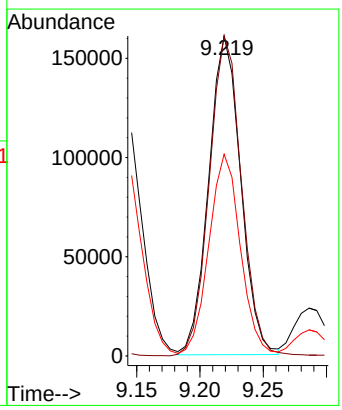
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

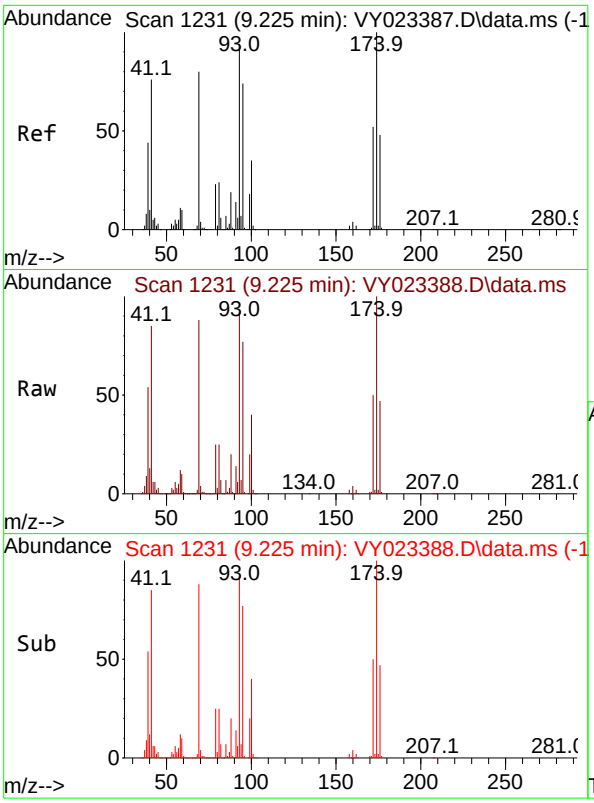


#48
Methyl methacrylate
Concen: 107.476 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 41 Resp: 282582

Ion	Ratio	Lower	Upper
41	100		
69	100.8	81.0	121.4
39	60.9	48.2	72.4

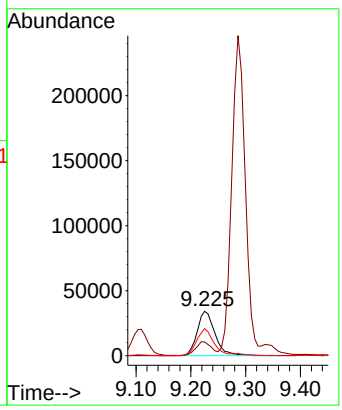




#49
1,4-Dioxane
Concen: 2374.722 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 88 Resp: 7730

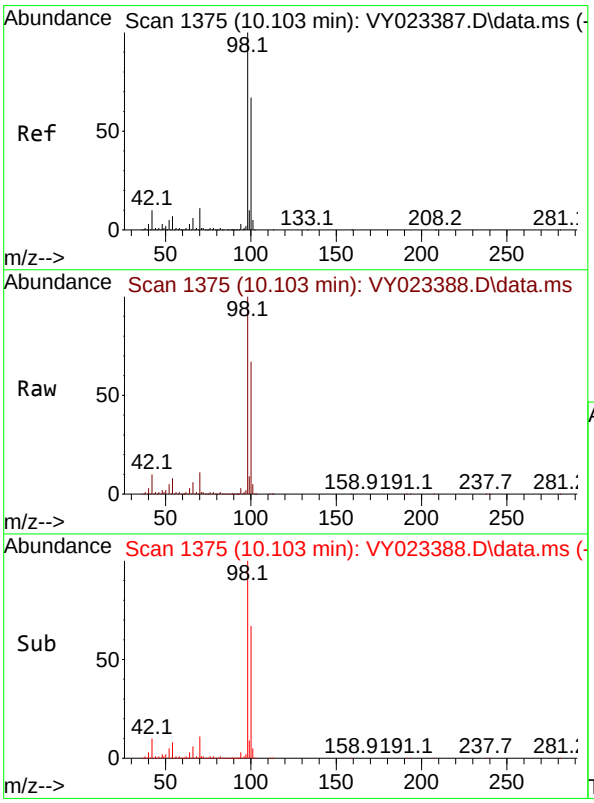
Ion	Ratio	Lower	Upper
88	100		
43	27.5	21.8	32.8
58	58.0	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

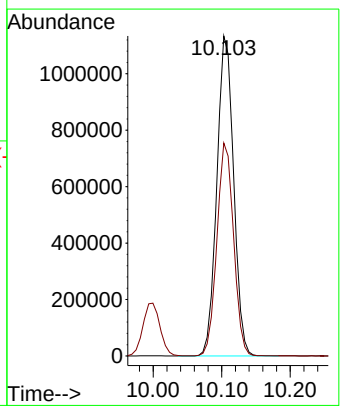
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

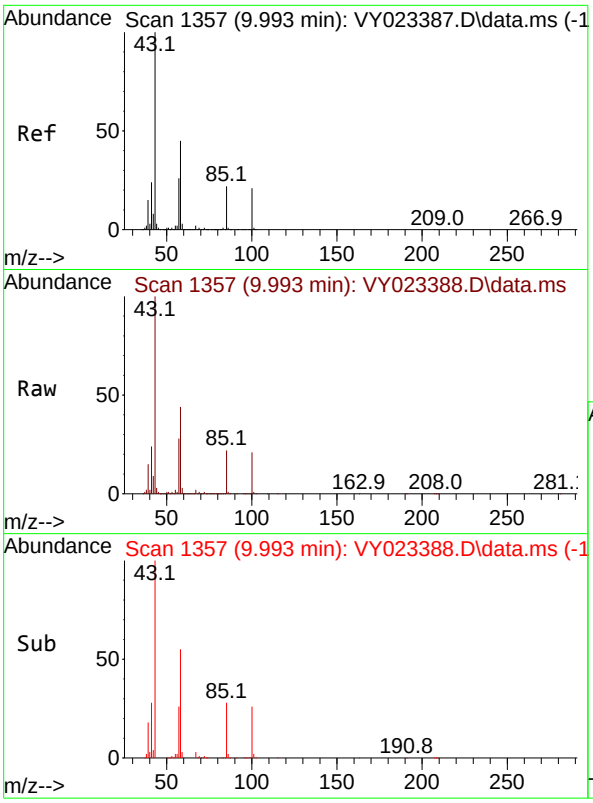


#50
Toluene-d8
Concen: 98.031 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 98 Resp: 1919872

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4

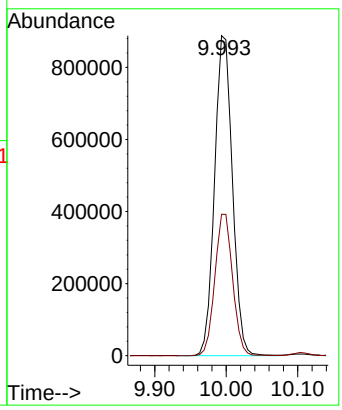




#51
4-Methyl-2-Pentanone
Concen: 533.386 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 153932

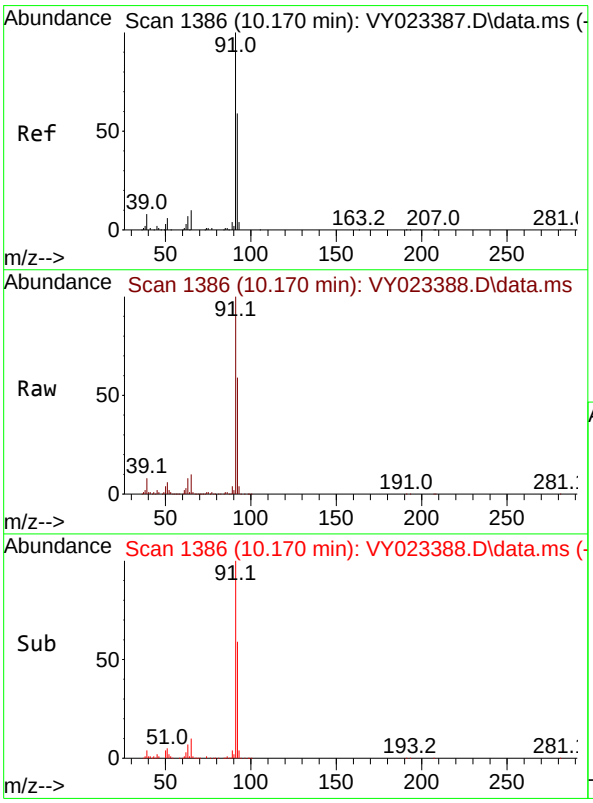
Ion	Ratio	Lower	Upper
43	100		
58	44.0	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

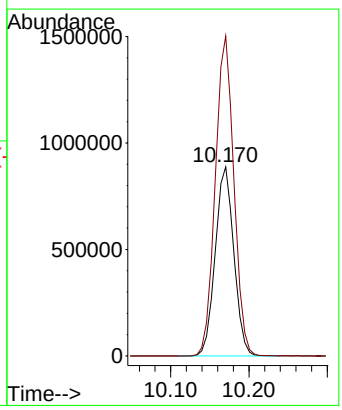
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

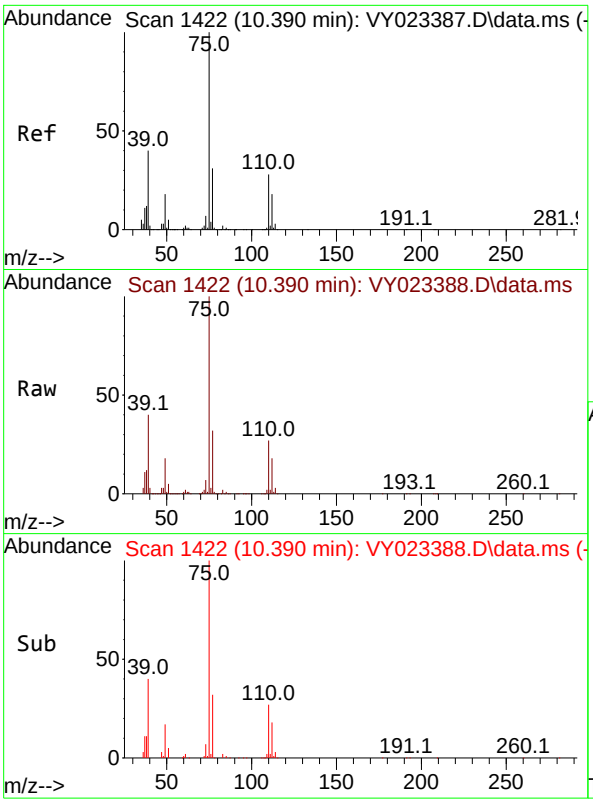


#52
Toluene
Concen: 100.905 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 92 Resp: 1462927

Ion	Ratio	Lower	Upper
92	100		
91	169.6	136.4	204.6

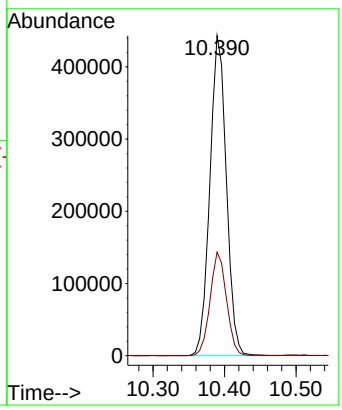




#53
t-1,3-Dichloropropene
Concen: 104.537 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 71047

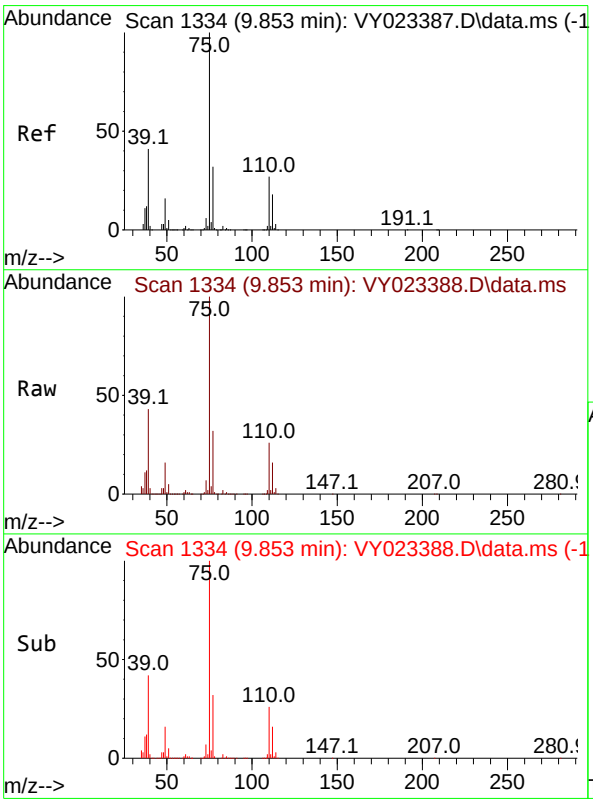
Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

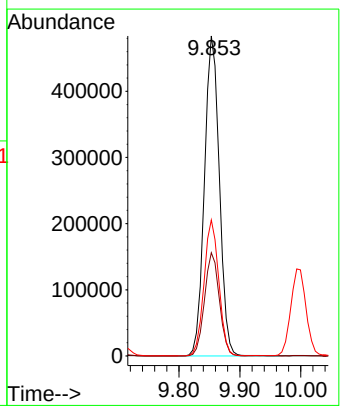
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

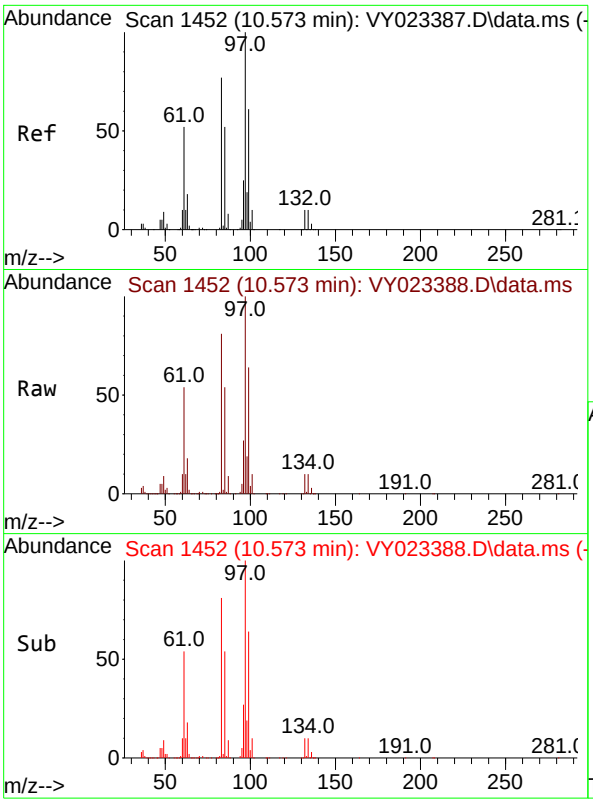


#54
cis-1,3-Dichloropropene
Concen: 101.302 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 822967

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.4	38.0
39	42.5	32.8	49.2

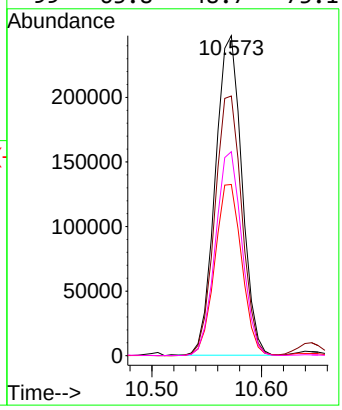




#55
1,1,2-Trichloroethane
Concen: 99.875 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 97 Resp: 41762

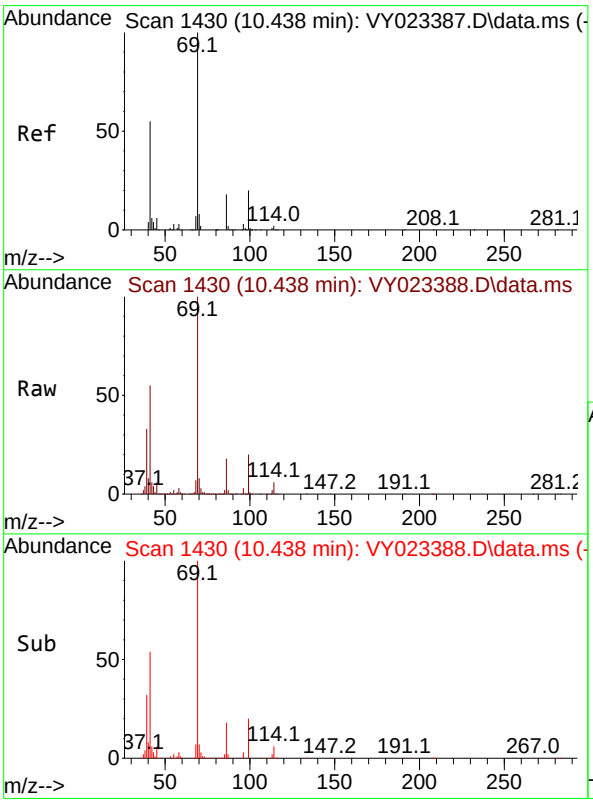
Ion	Ratio	Lower	Upper
97	100		
83	81.3	61.8	92.6
85	53.6	41.3	61.9
99	63.8	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

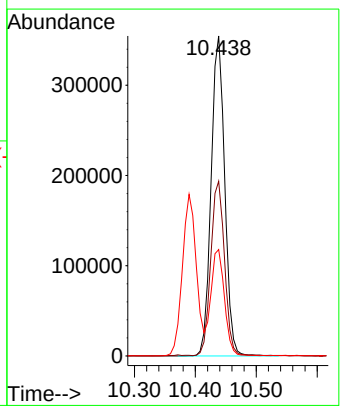
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

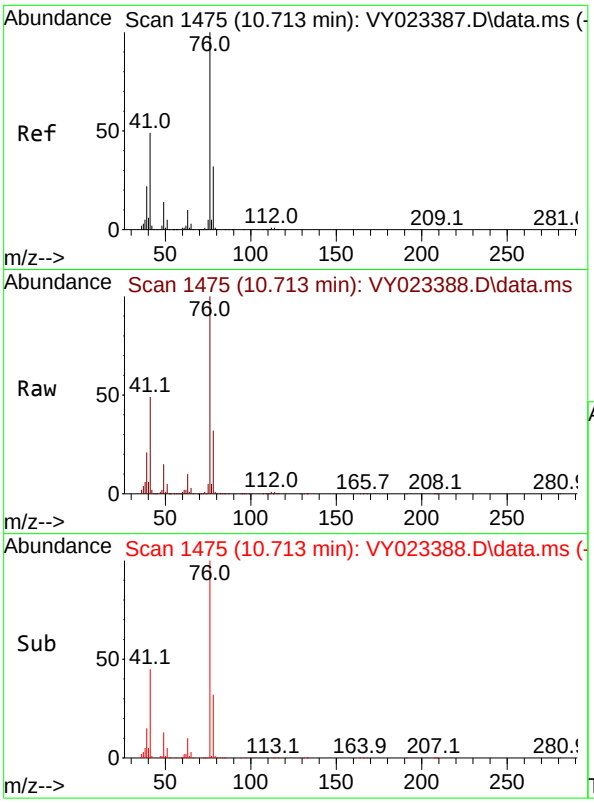


#56
Ethyl methacrylate
Concen: 114.077 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 69 Resp: 549366

Ion	Ratio	Lower	Upper
69	100		
41	55.1	44.6	67.0
39	33.3	27.0	40.4

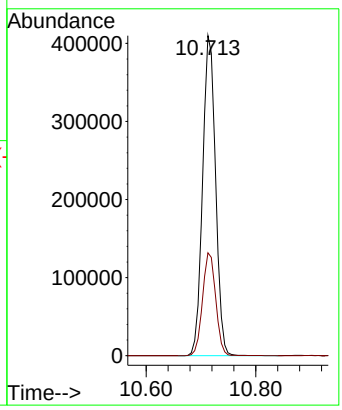




#57
1,3-Dichloropropane
Concen: 99.140 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 76 Resp: 67096

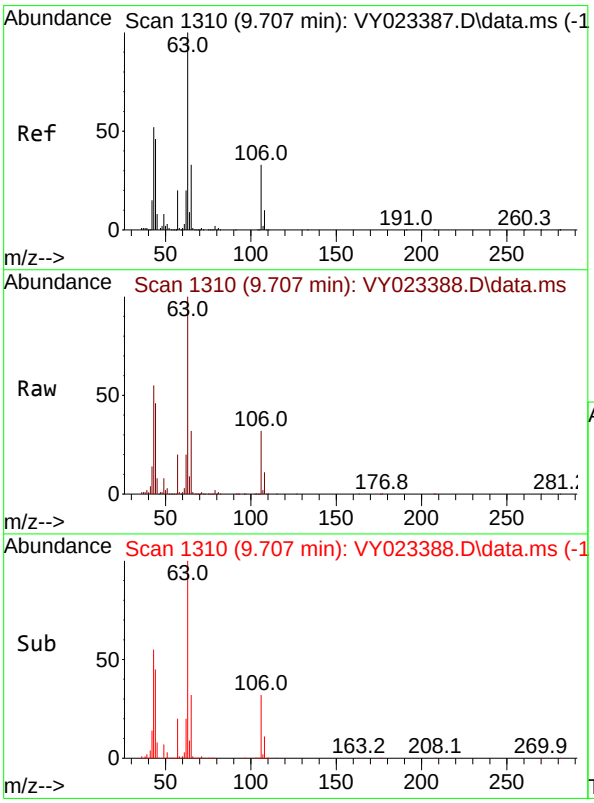
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

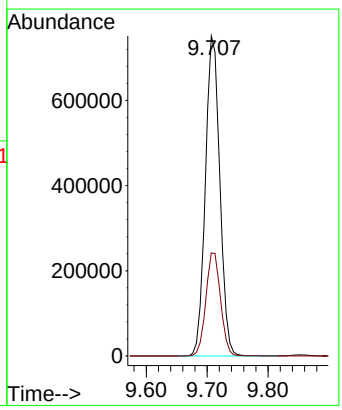
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

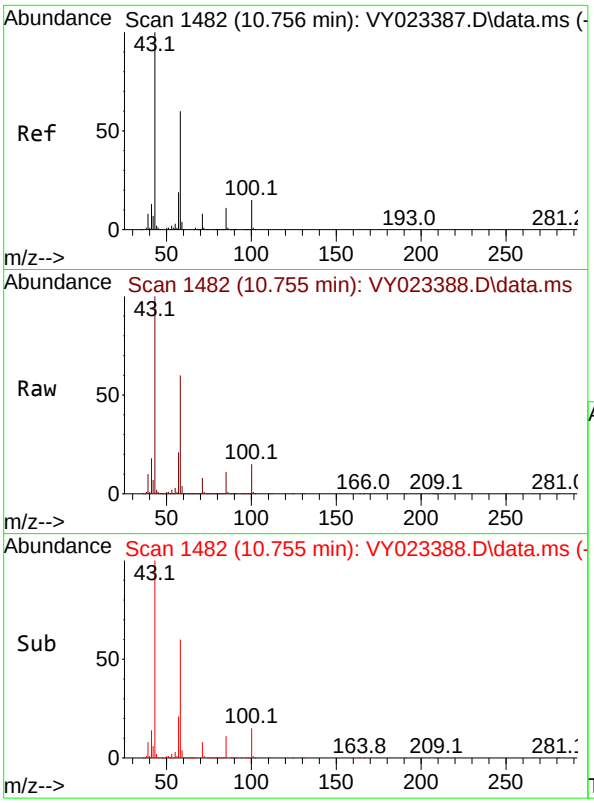


#58
2-Chloroethyl Vinyl ether
Concen: 588.731 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 63 Resp: 1240361

Ion	Ratio	Lower	Upper
63	100		
106	32.8	26.6	39.8

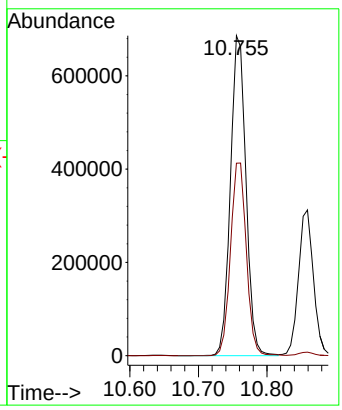




#59
2-Hexanone
Concen: 541.284 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 108156

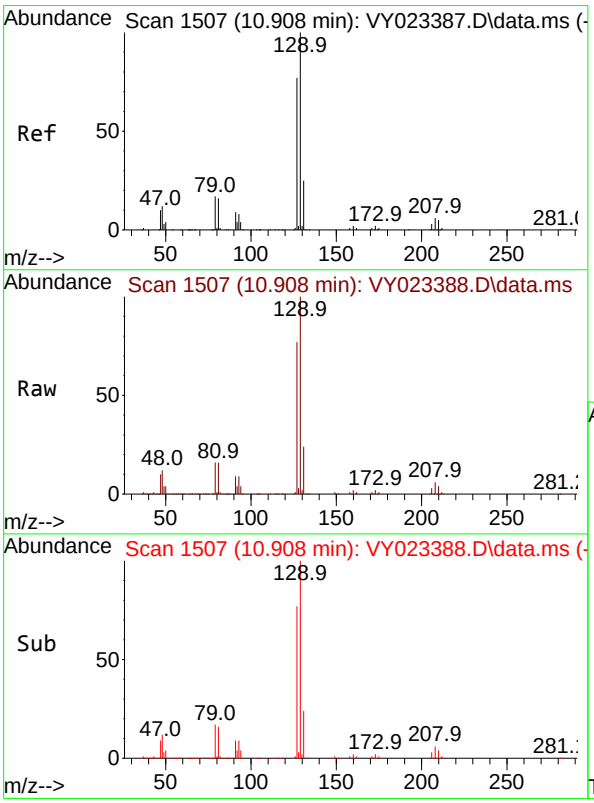
Ion	Ratio	Lower	Upper
43	100		
58	61.5	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

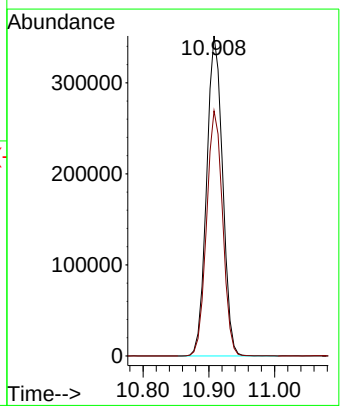
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

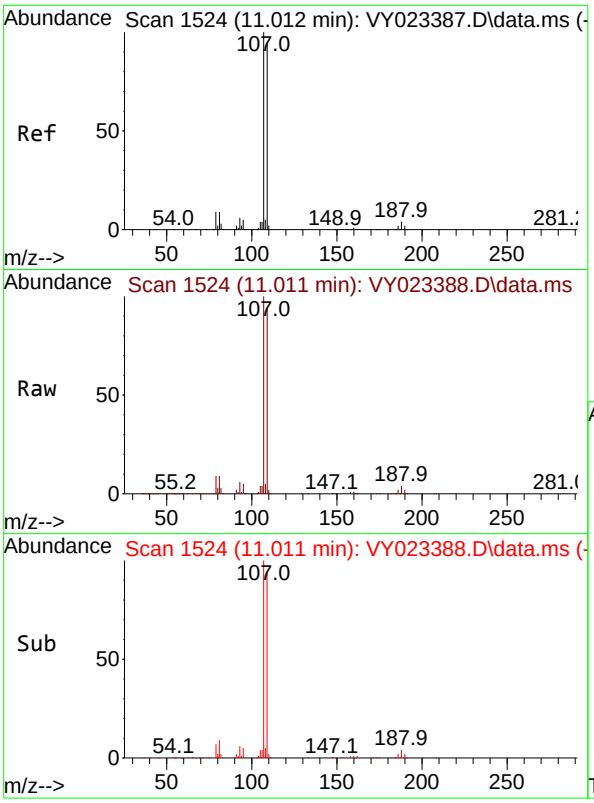


#60
Dibromochloromethane
Concen: 104.133 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:129 Resp: 593878

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.6	115.7

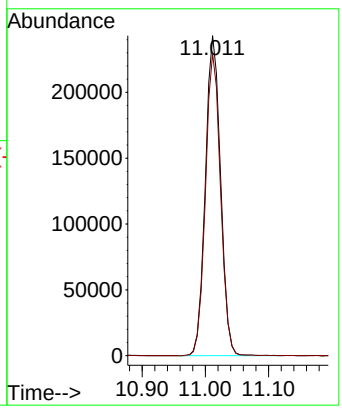




#61
1,2-Dibromoethane
Concen: 103.280 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:107 Resp: 40629

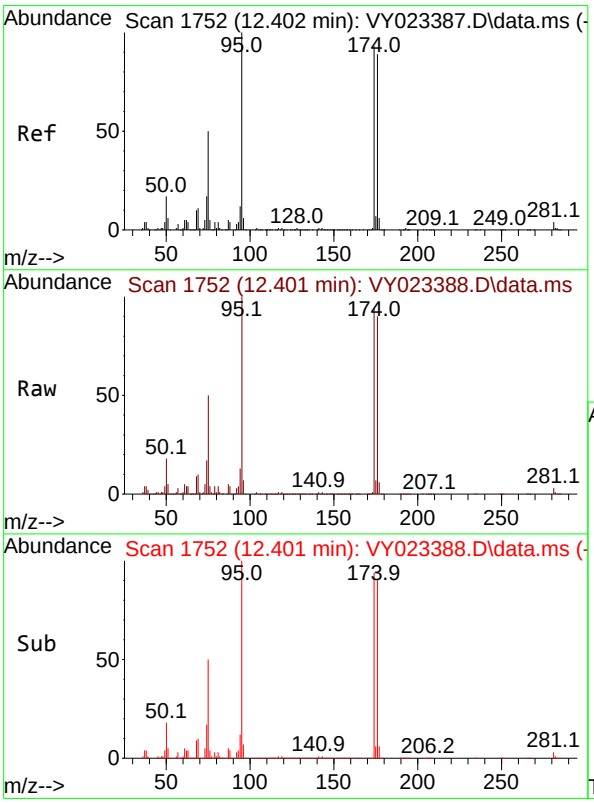
Ion	Ratio	Lower	Upper
107	100		
109	94.0	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

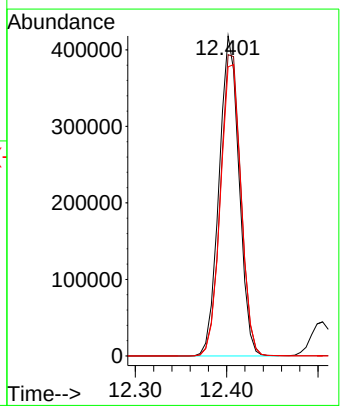
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

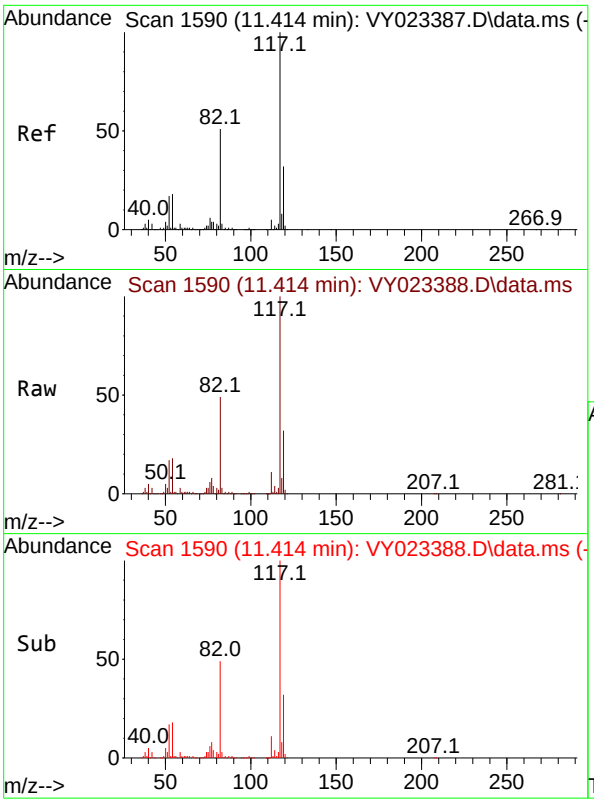


#62
4-Bromofluorobenzene
Concen: 103.007 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 95 Resp: 636435

Ion	Ratio	Lower	Upper
95	100		
174	96.7	0.0	192.8
176	94.1	0.0	187.6

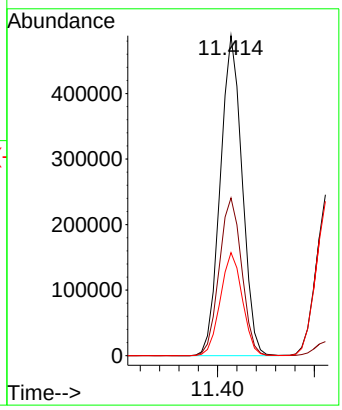




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:117 Resp: 76436

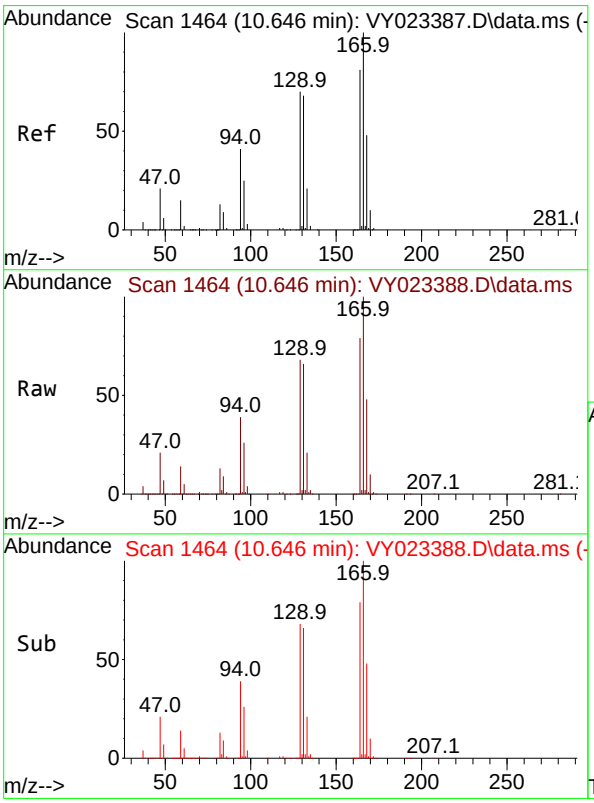
Ion	Ratio	Lower	Upper
117	100		
82	49.3	41.0	61.4
119	32.2	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

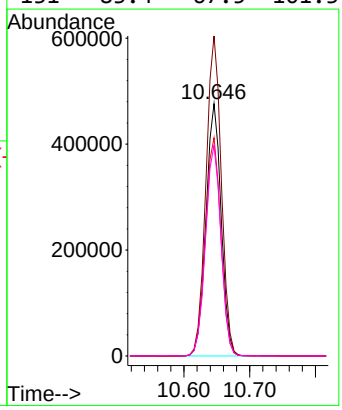
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

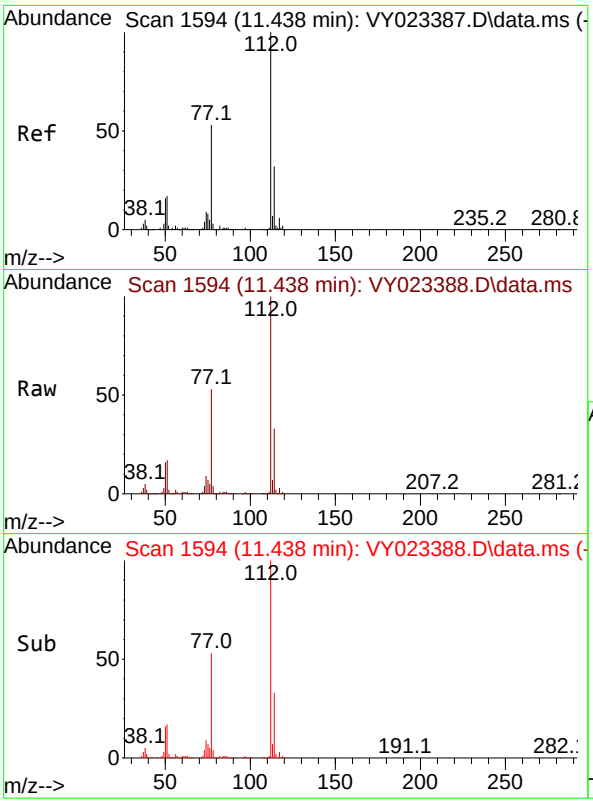


#64
Tetrachloroethene
Concen: 100.406 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:164 Resp: 767753

Ion	Ratio	Lower	Upper
164	100		
166	126.9	99.4	149.0
129	86.5	69.4	104.2
131	83.4	67.5	101.3

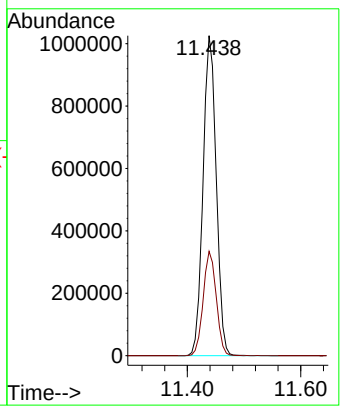




#65
Chlorobenzene
Concen: 99.649 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:112 Resp: 165514

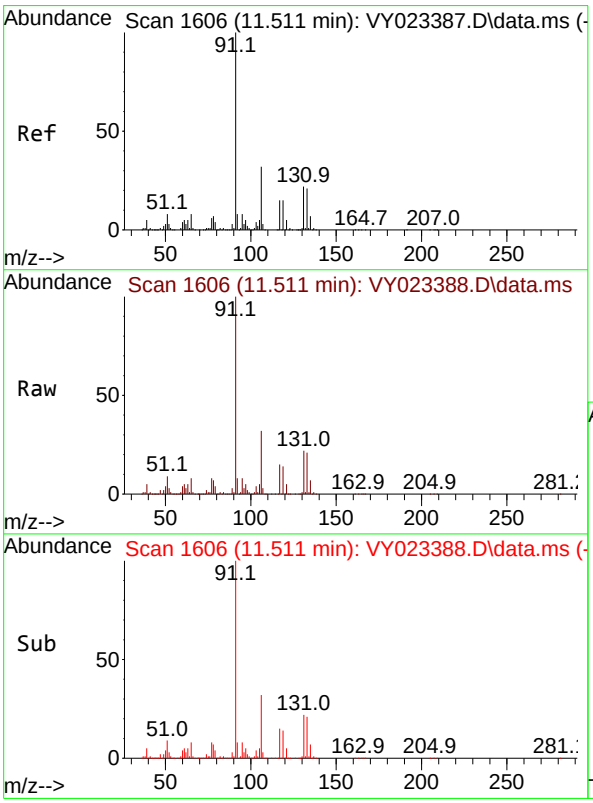
Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

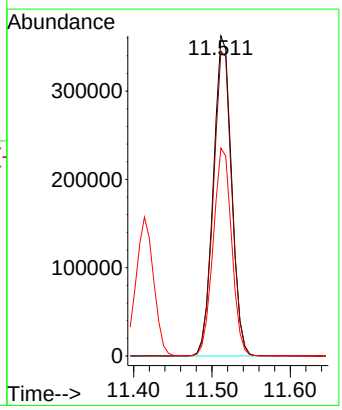
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

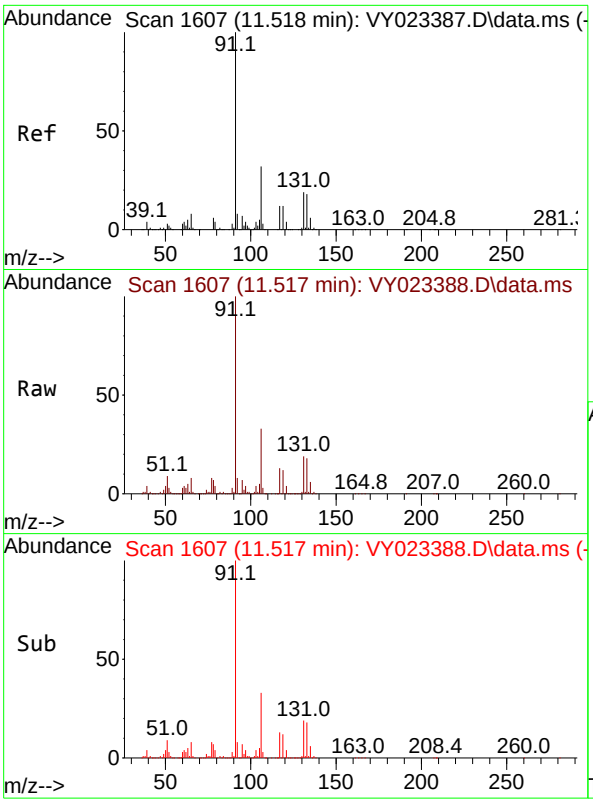


#66
1,1,1,2-Tetrachloroethane
Concen: 100.470 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:131 Resp: 586878

Ion	Ratio	Lower	Upper
131	100		
133	96.0	48.4	145.2
119	65.7	32.4	97.2

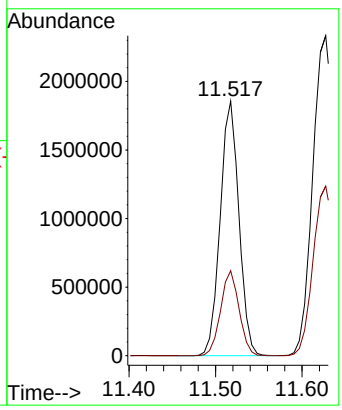




#67
Ethyl Benzene
Concen: 102.856 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 278825

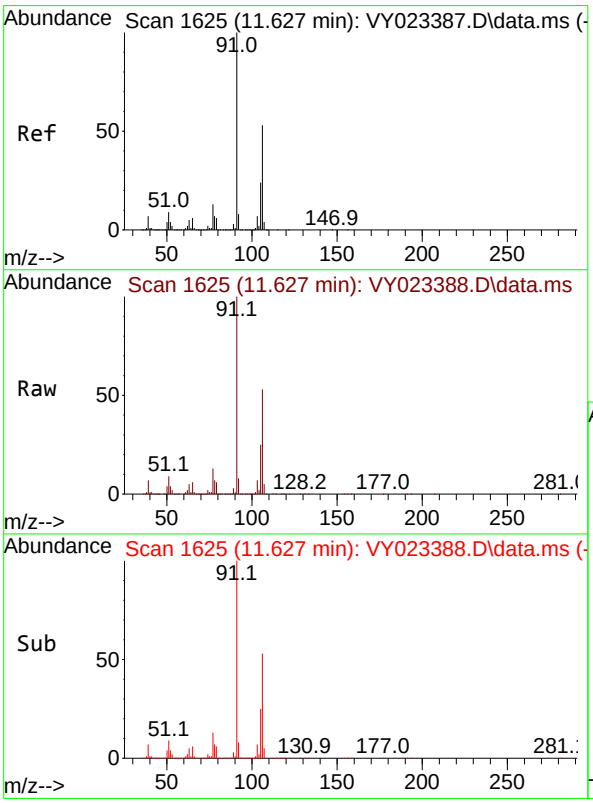
Ion	Ratio	Lower	Upper
91	100		
106	33.4	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

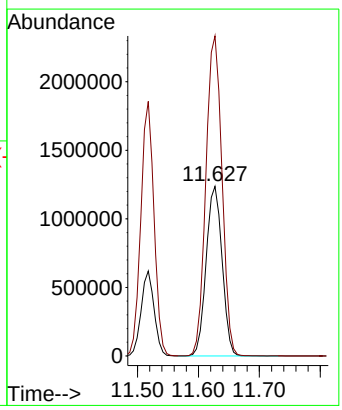
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

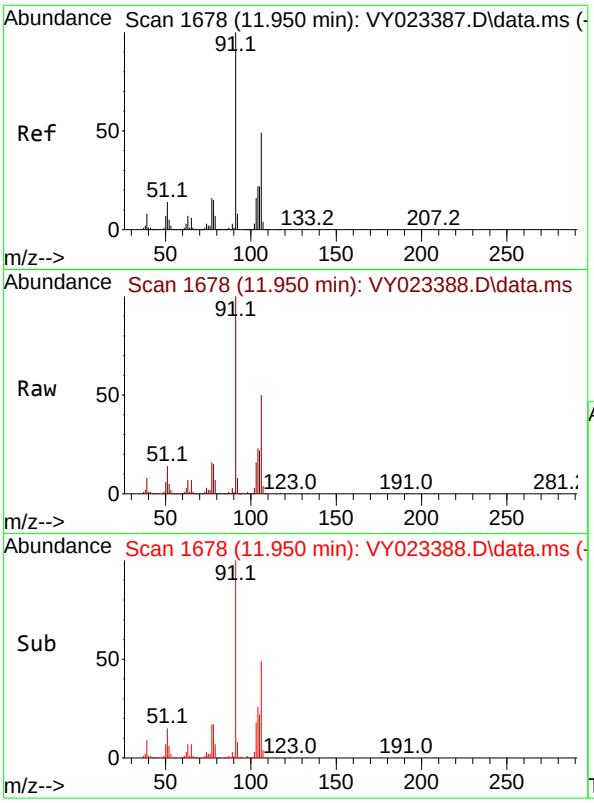


#68
m/p-Xylenes
Concen: 206.437 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:106 Resp: 2243033

Ion	Ratio	Lower	Upper
106	100		
91	190.5	152.6	229.0





#69
o-Xylene
Concen: 106.611 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

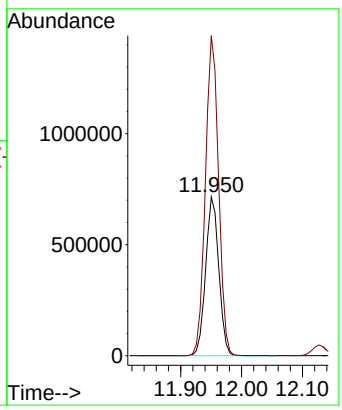
Tgt Ion:106 Resp: 107233

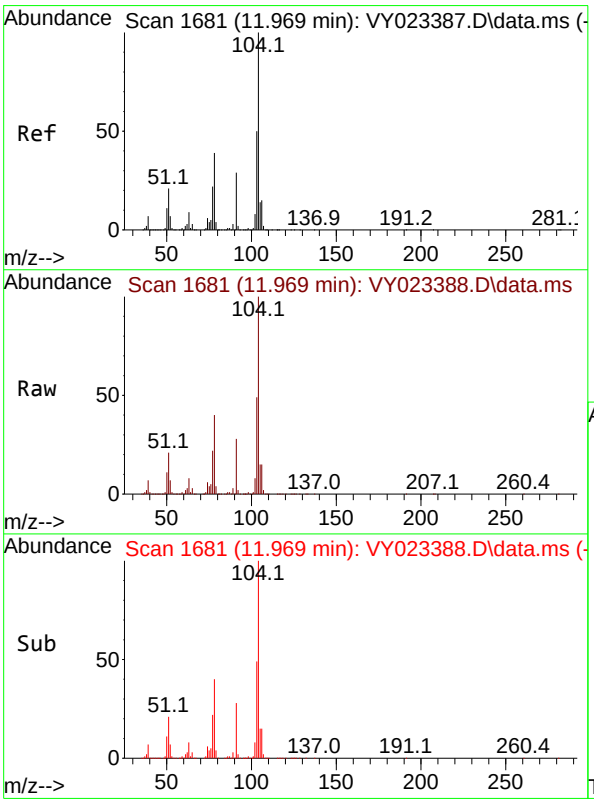
Ion	Ratio	Lower	Upper
106	100		
91	201.8	101.4	304.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

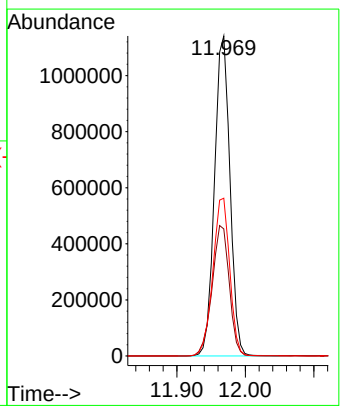


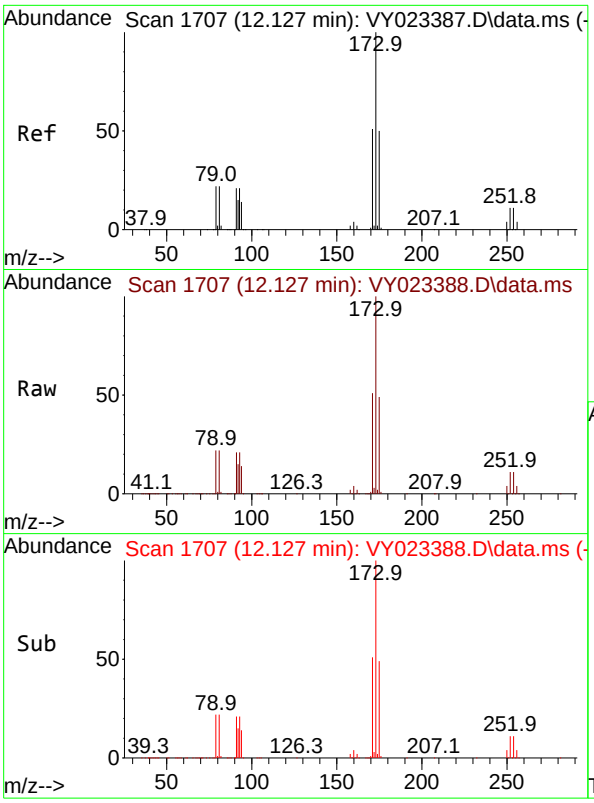


#70
Styrene
Concen: 107.344 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:104 Resp: 1782757

Ion	Ratio	Lower	Upper
104	100		
78	45.3	36.1	54.1
103	53.9	43.2	64.8

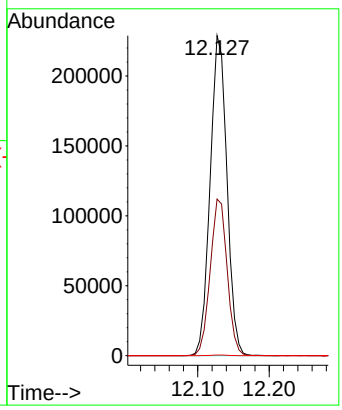




#71
Bromoform
Concen: 106.727 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:173 Resp: 37320

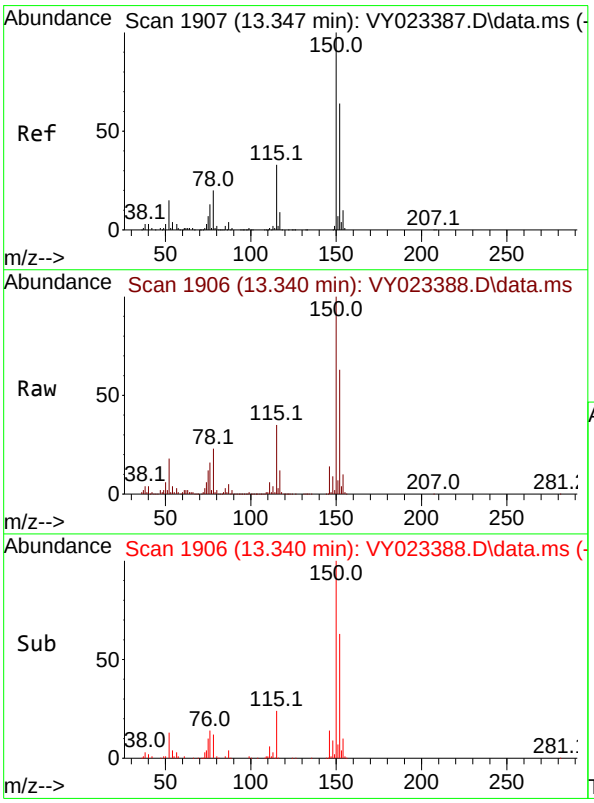
Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.8	74.3
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

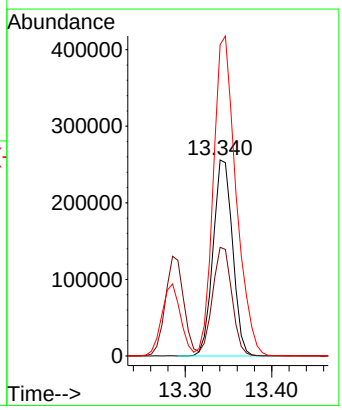
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

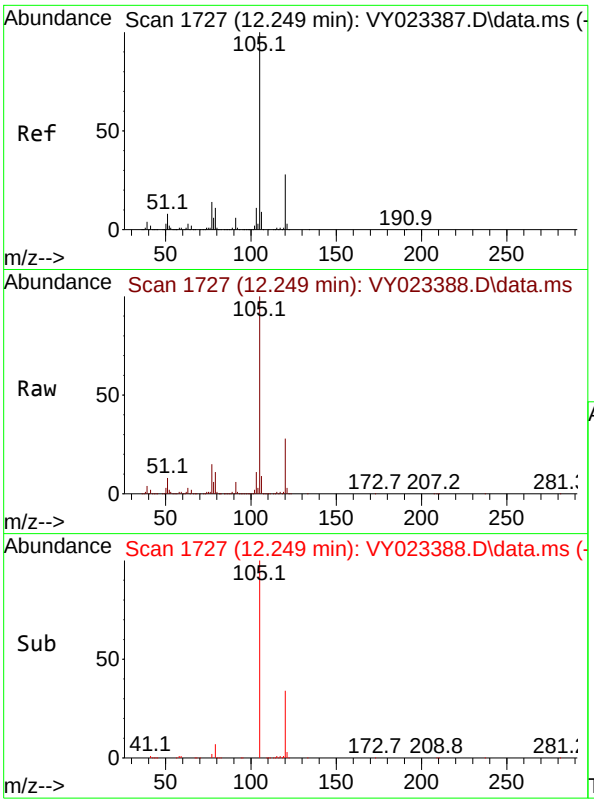


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:152 Resp: 400285

Ion	Ratio	Lower	Upper
152	100		
115	55.0	27.1	81.2
150	190.0	0.0	347.4

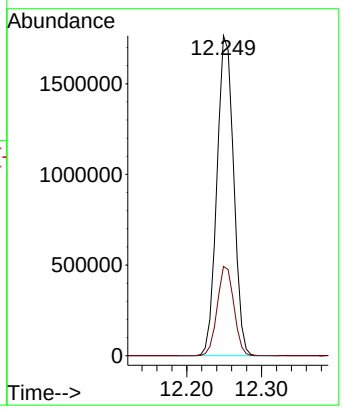




#73
Isopropylbenzene
Concen: 102.825 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:105 Resp: 274169

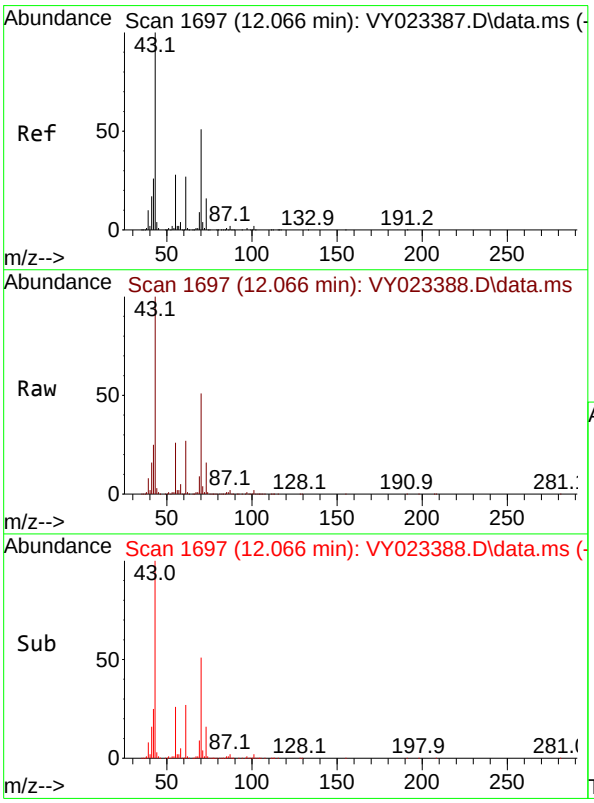
Ion	Ratio	Lower	Upper
105	100		
120	27.7	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

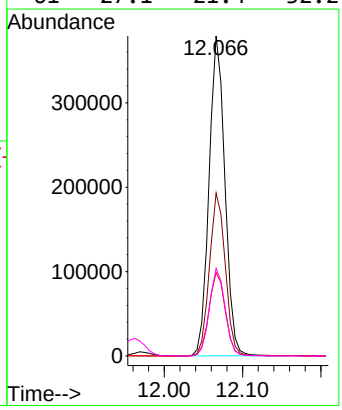
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

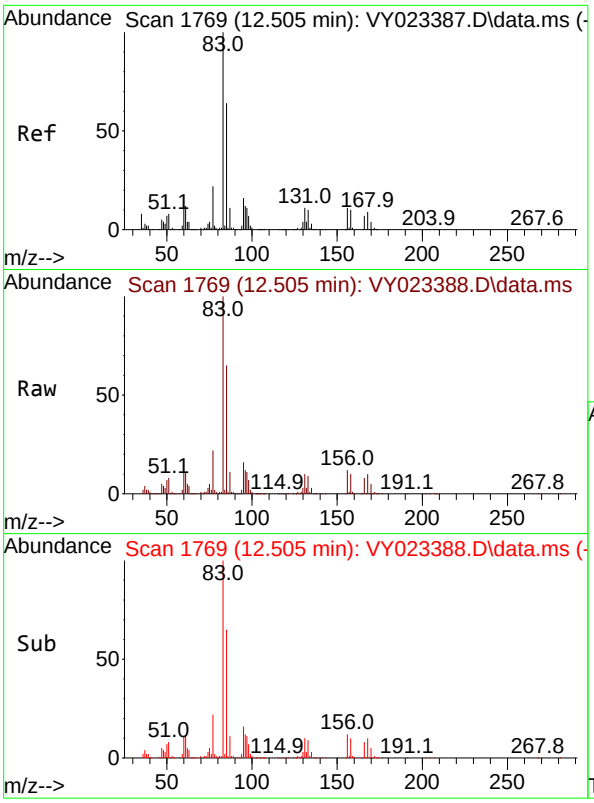


#74
N-amyl acetate
Concen: 106.818 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 532255

Ion	Ratio	Lower	Upper
43	100		
70	51.0	41.1	61.7
55	26.8	23.0	34.6
61	27.1	21.4	32.2

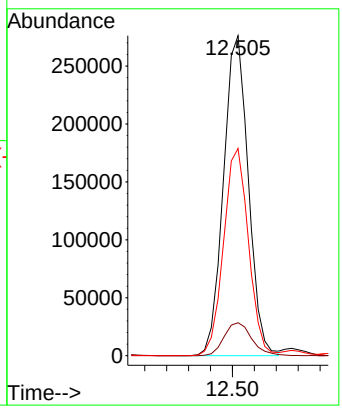




#75
1,1,2,2-Tetrachloroethane
Concen: 97.735 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 83 Resp: 43472

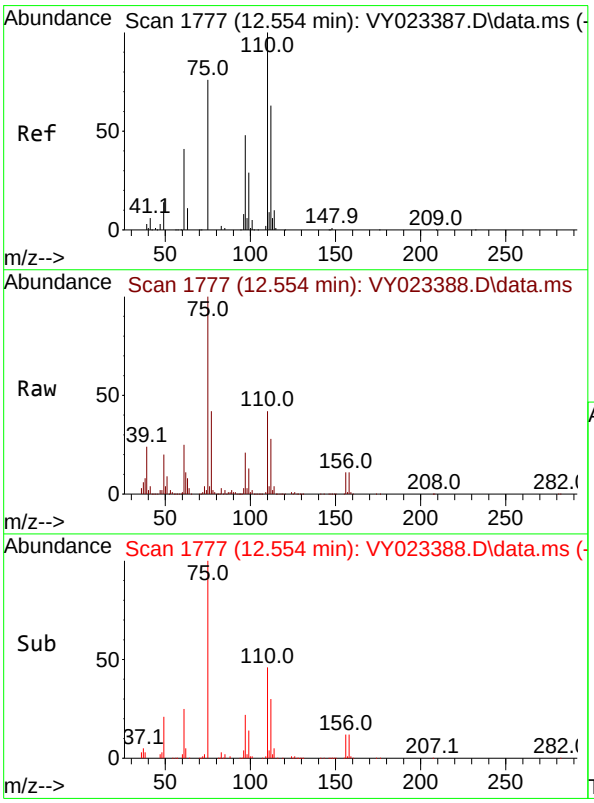
Ion	Ratio	Lower	Upper
83	100		
131	11.5	5.9	17.6
85	64.9	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

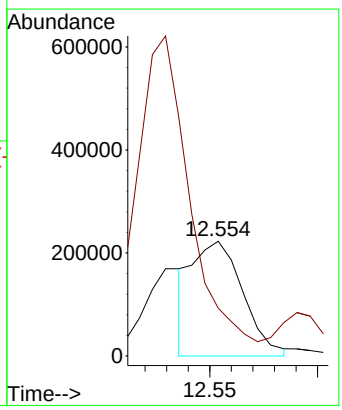
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

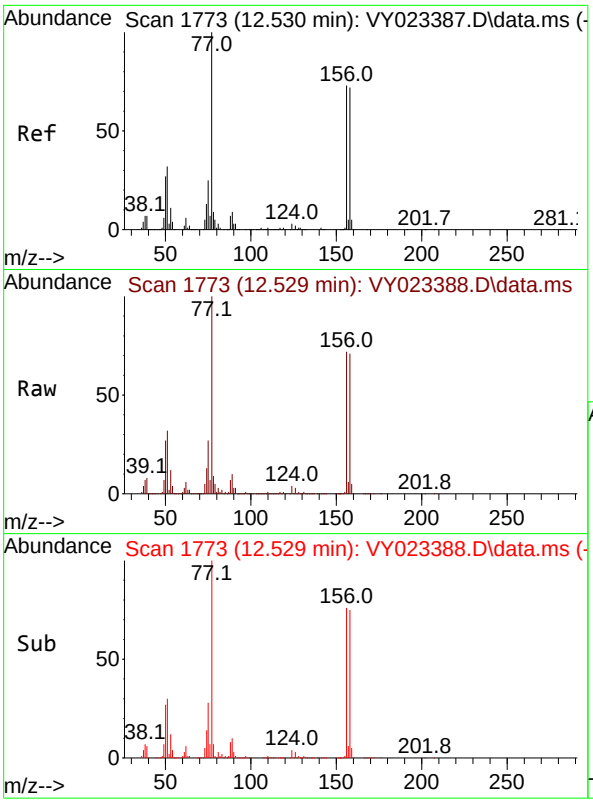


#76
1,2,3-Trichloropropane
Concen: 92.345 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 364622

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

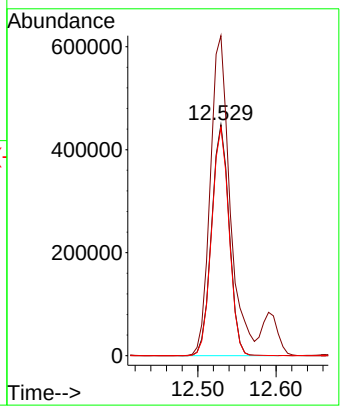




#77
Bromobenzene
Concen: 102.545 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:156 Resp: 70174

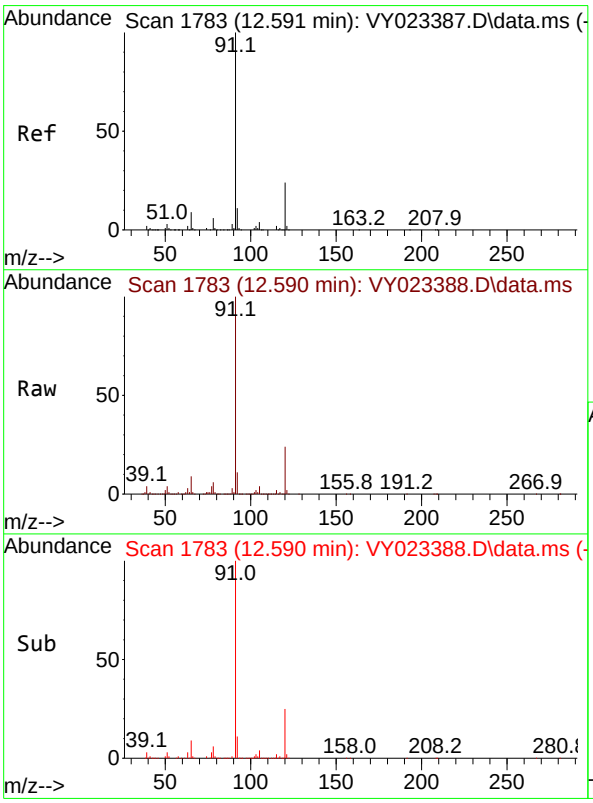
Ion	Ratio	Lower	Upper
156	100		
77	154.5	76.8	230.5
158	98.1	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

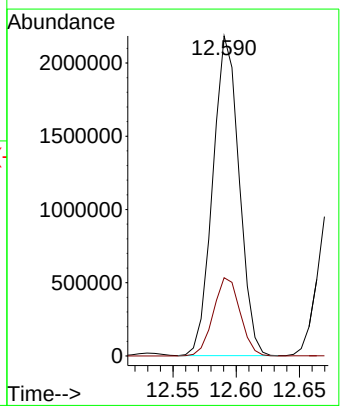
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

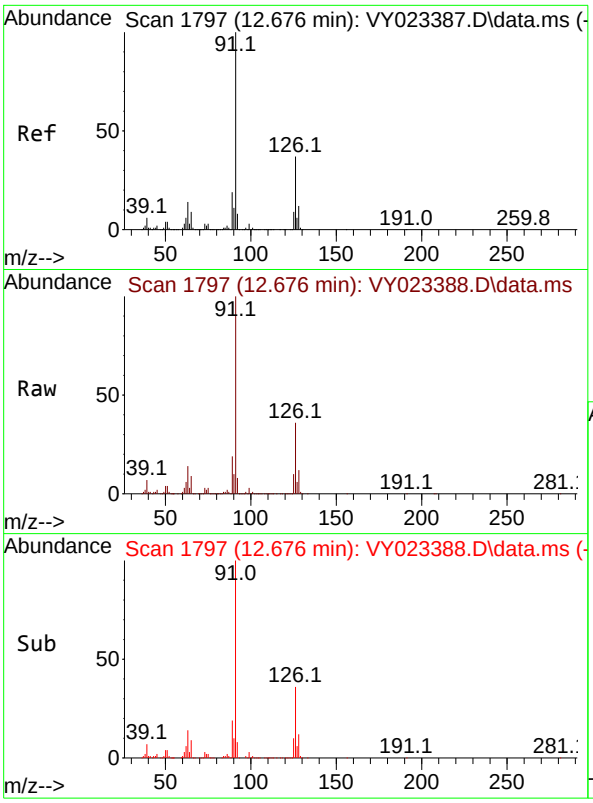


#78
n-propylbenzene
Concen: 100.958 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 3165894

Ion	Ratio	Lower	Upper
91	100		
120	24.8	12.3	36.8

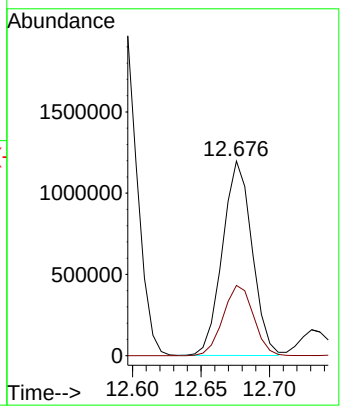




#79
2-Chlorotoluene
Concen: 99.426 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 180012

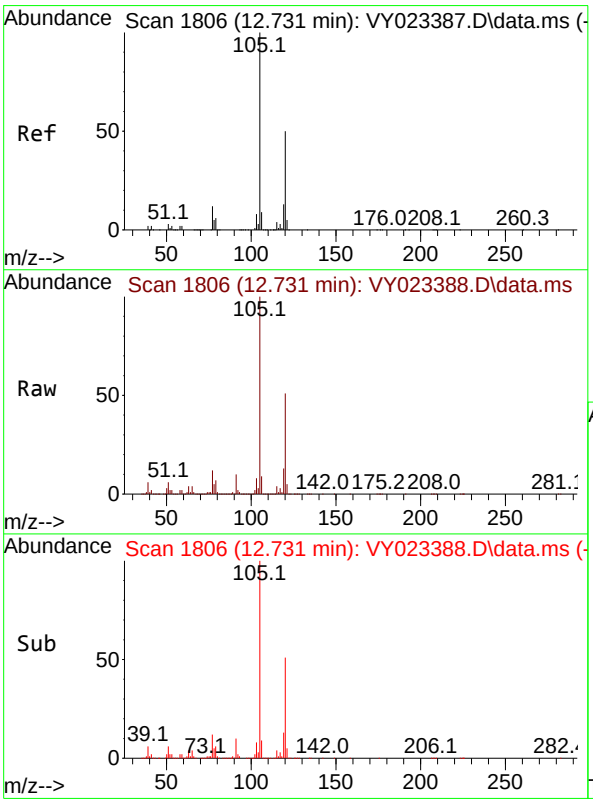
Ion	Ratio	Lower	Upper
91	100		
126	37.2	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

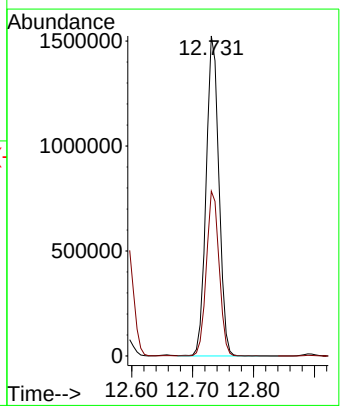
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

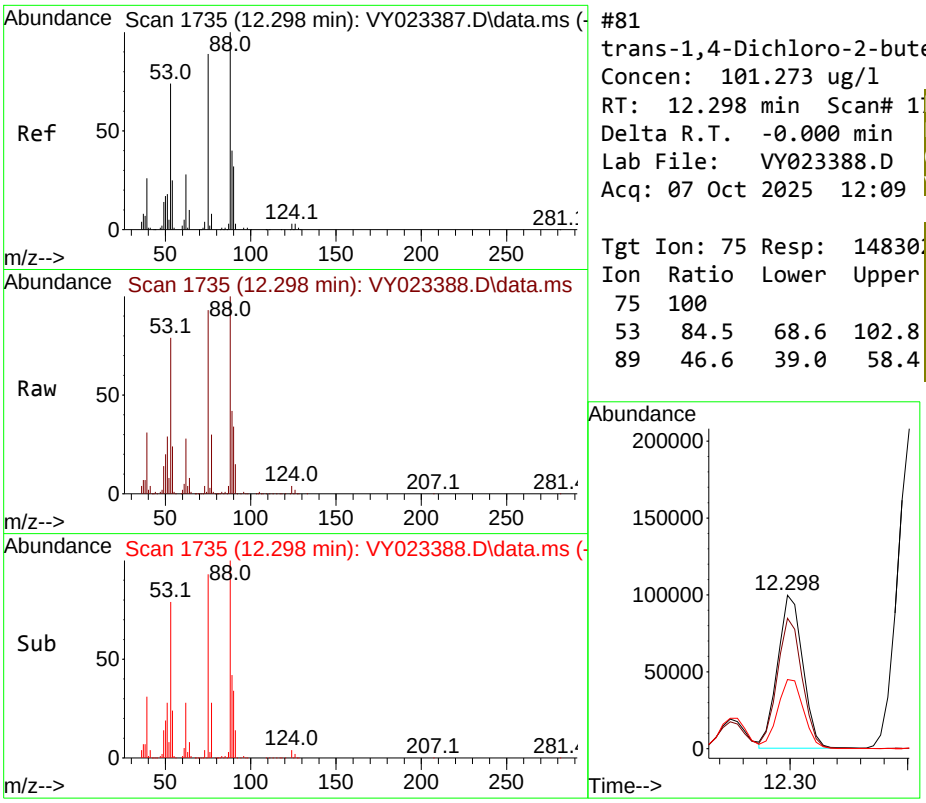


#80
1,3,5-Trimethylbenzene
Concen: 102.374 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:105 Resp: 2219080

Ion	Ratio	Lower	Upper
105	100		
120	51.6	25.4	76.4





#81
trans-1,4-Dichloro-2-butene
Concen: 101.273 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

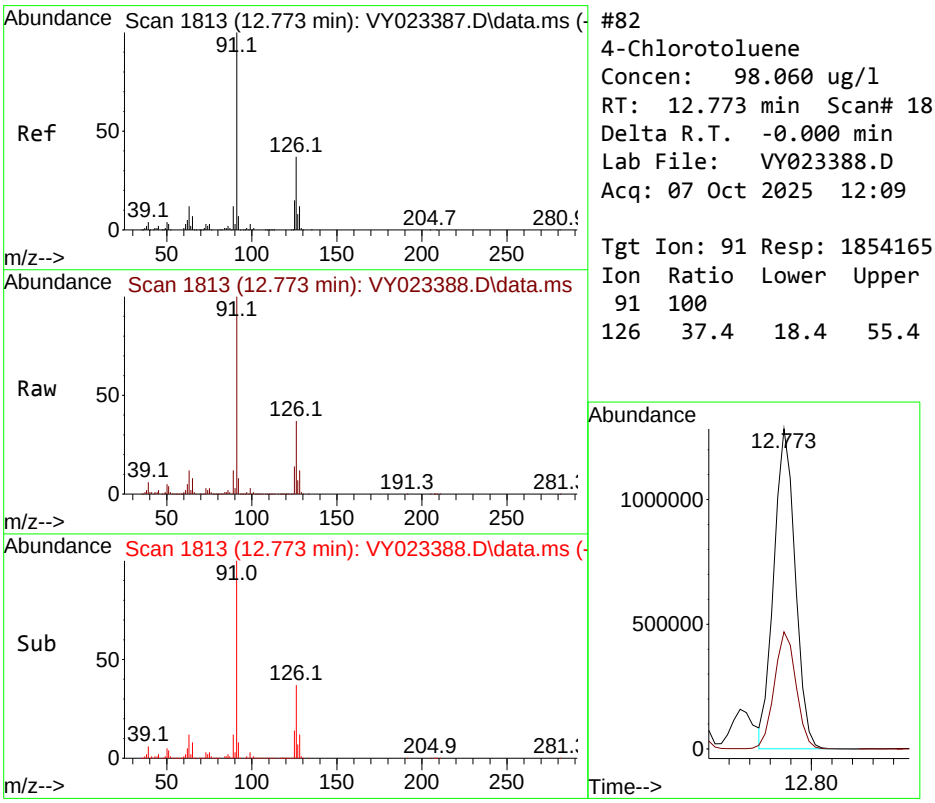
Tgt Ion: 75 Resp: 14830

Ion	Ratio	Lower	Upper
75	100		
53	84.5	68.6	102.8
89	46.6	39.0	58.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

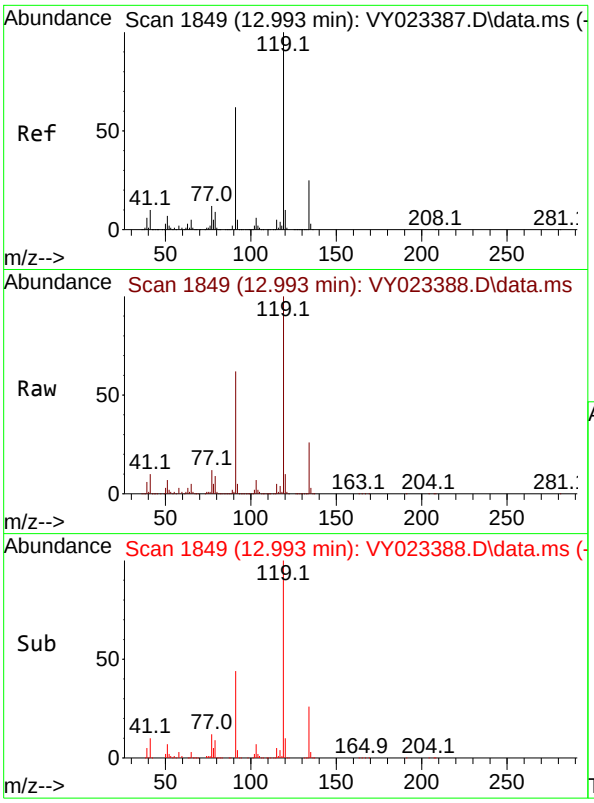
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#82
4-Chlorotoluene
Concen: 98.060 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 1854165

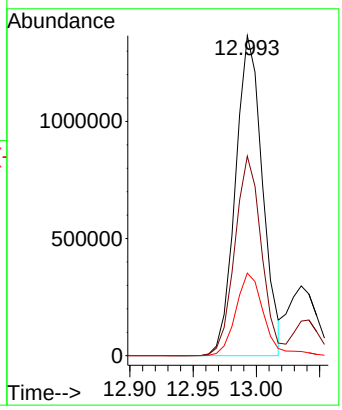
Ion	Ratio	Lower	Upper
91	100		
126	37.4	18.4	55.4



#83
tert-Butylbenzene
Concen: 102.684 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:119 Resp: 202819

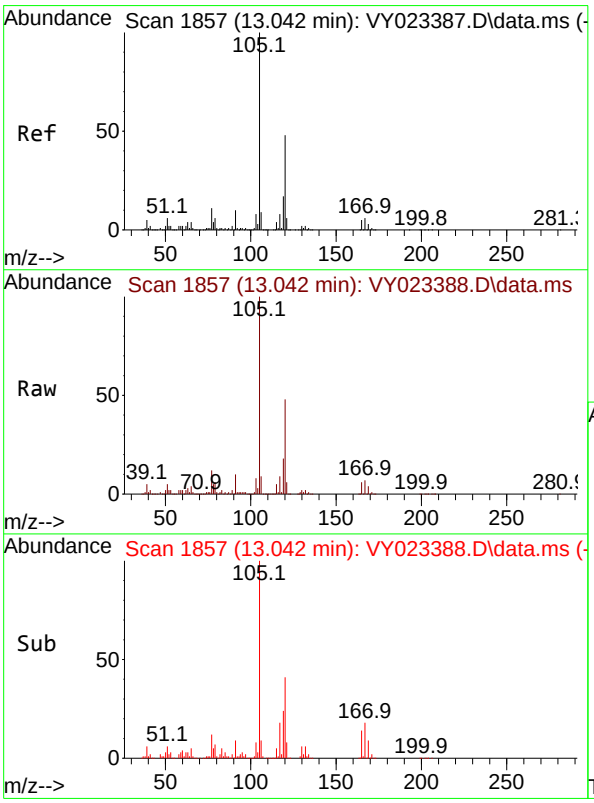
Ion	Ratio	Lower	Upper
119	100		
91	61.9	29.9	89.8
134	26.9	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

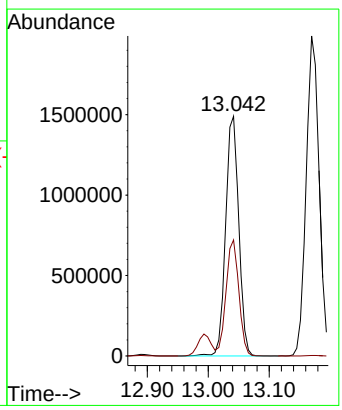
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

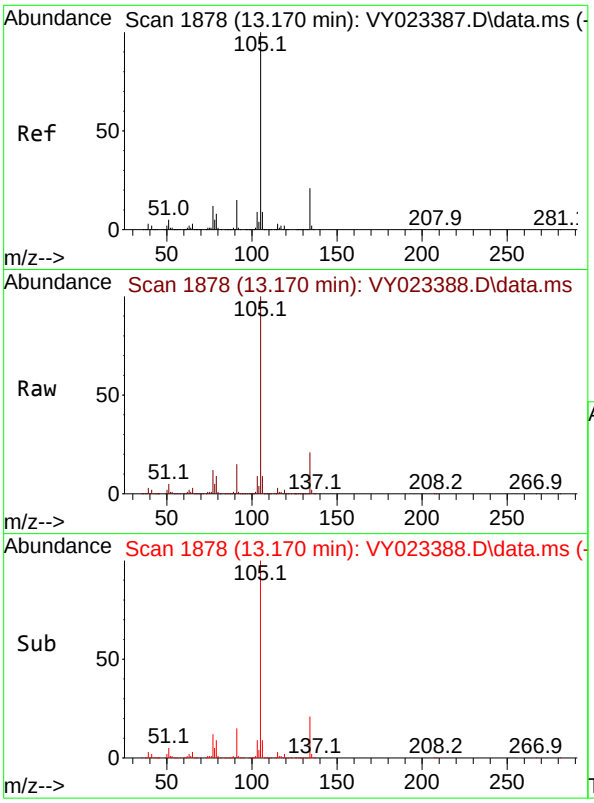


#84
1,2,4-Trimethylbenzene
Concen: 103.853 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:105 Resp: 2227197

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.8	71.2

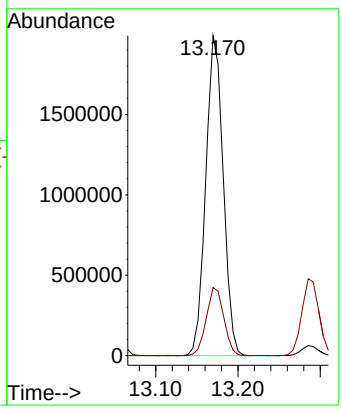




#85
sec-Butylbenzene
Concen: 102.530 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:105 Resp: 293294

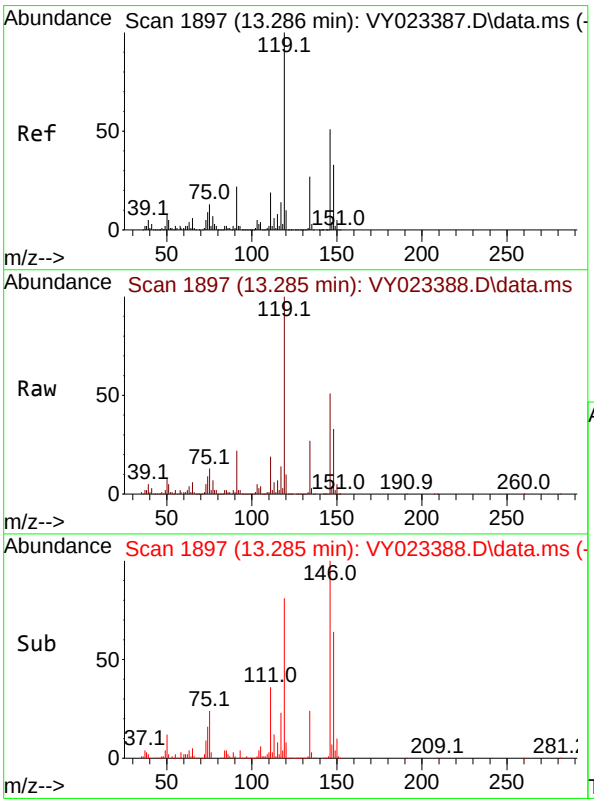
Ion	Ratio	Lower	Upper
105	100		
134	21.5	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

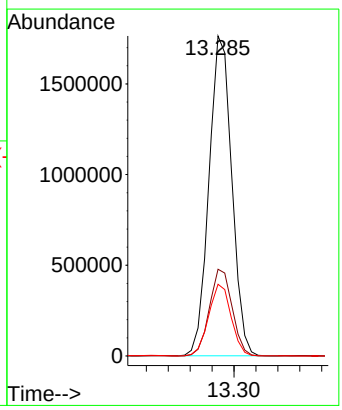
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

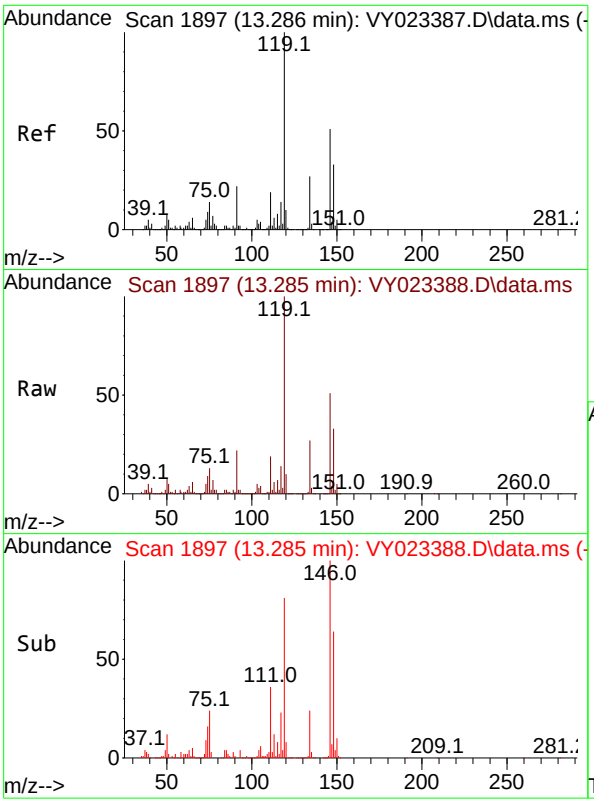


#86
p-Isopropyltoluene
Concen: 105.408 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:119 Resp: 2548220

Ion	Ratio	Lower	Upper
119	100		
134	27.0	13.6	40.7
91	22.1	10.9	32.9

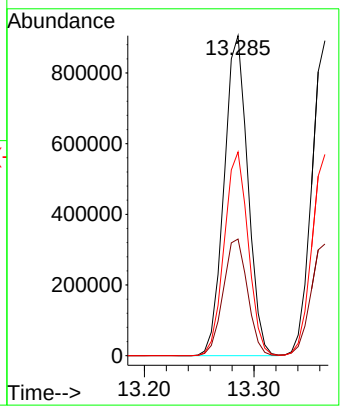




#87
1,3-Dichlorobenzene
Concen: 100.735 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:146 Resp: 136171

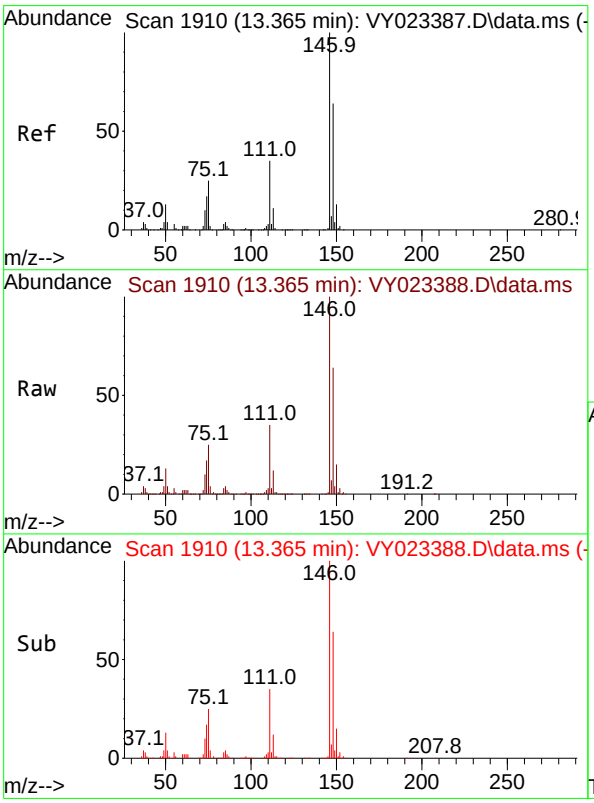
Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.7	56.1
148	64.1	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

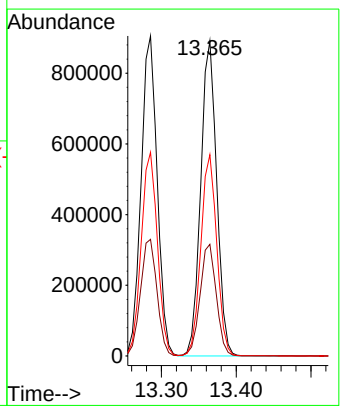
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

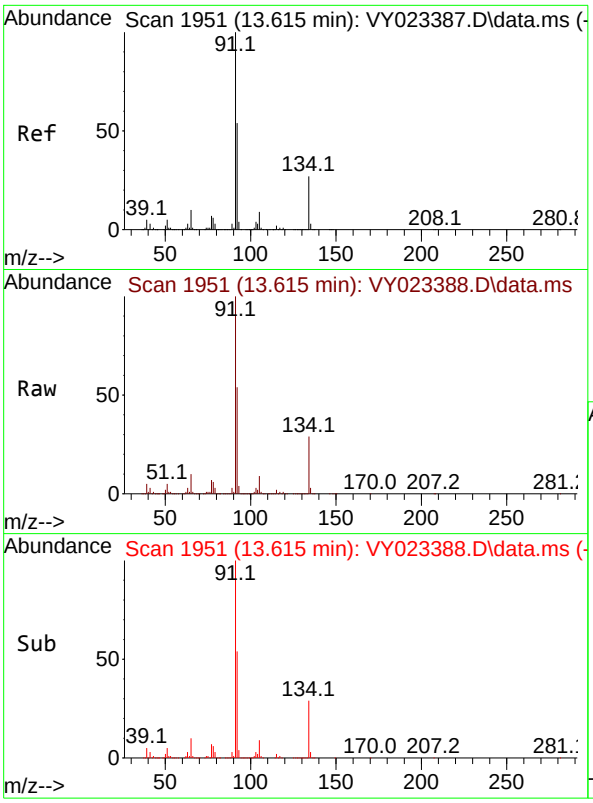


#88
1,4-Dichlorobenzene
Concen: 98.734 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:146 Resp: 1323618

Ion	Ratio	Lower	Upper
146	100		
111	36.0	18.0	54.0
148	63.8	31.9	95.7

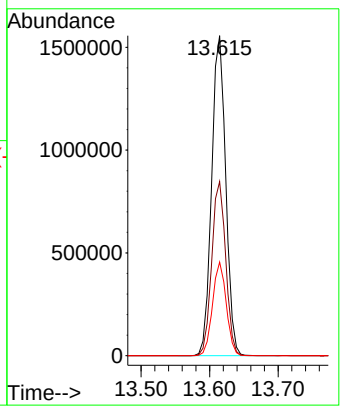




#89
n-Butylbenzene
Concen: 104.174 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 222374

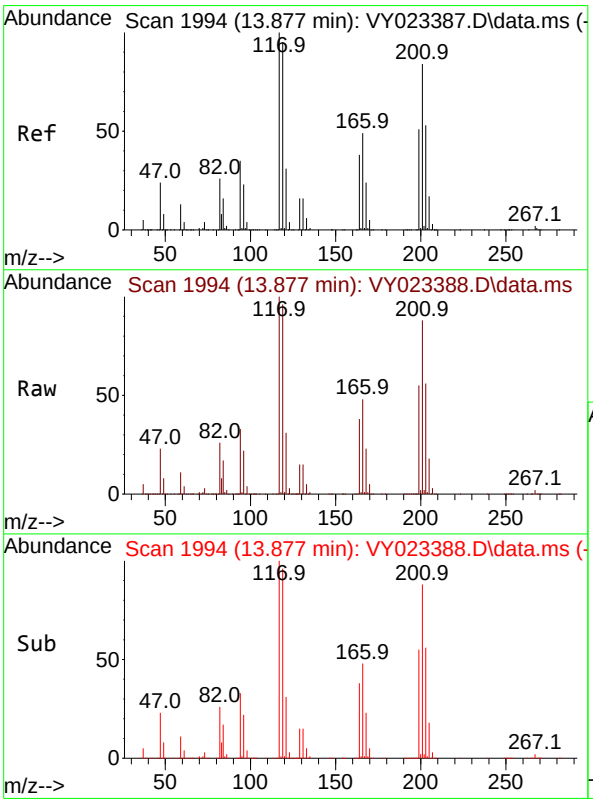
Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.0	80.8
134	28.6	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

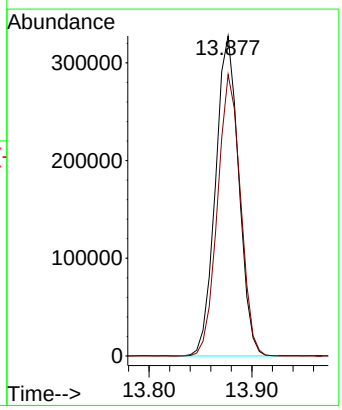
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

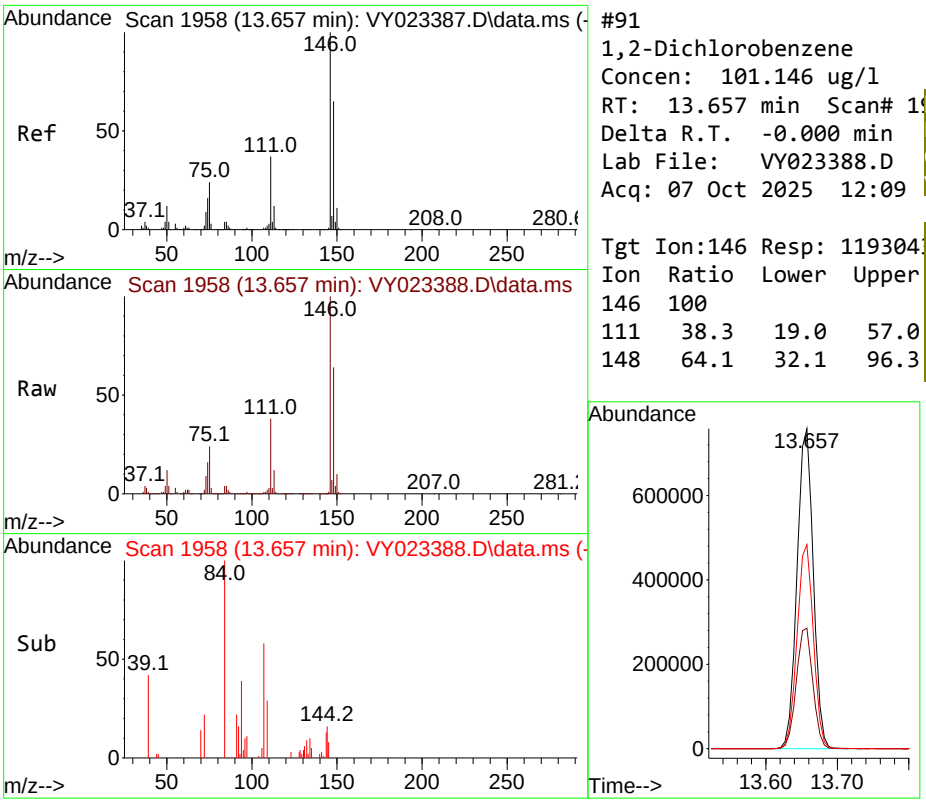


#90
Hexachloroethane
Concen: 98.069 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:117 Resp: 514746

Ion	Ratio	Lower	Upper
117	100		
201	86.8	43.8	131.4





#91
1,2-Dichlorobenzene
Concen: 101.146 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

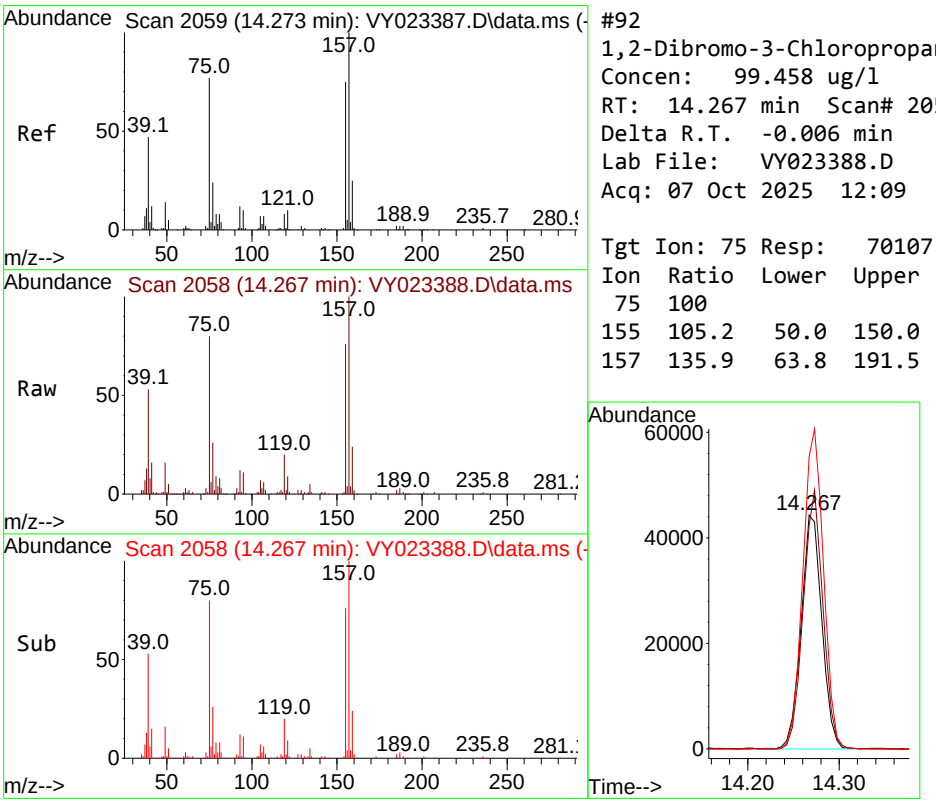
Tgt Ion:146 Resp: 119304

Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.0	57.0
148	64.1	32.1	96.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

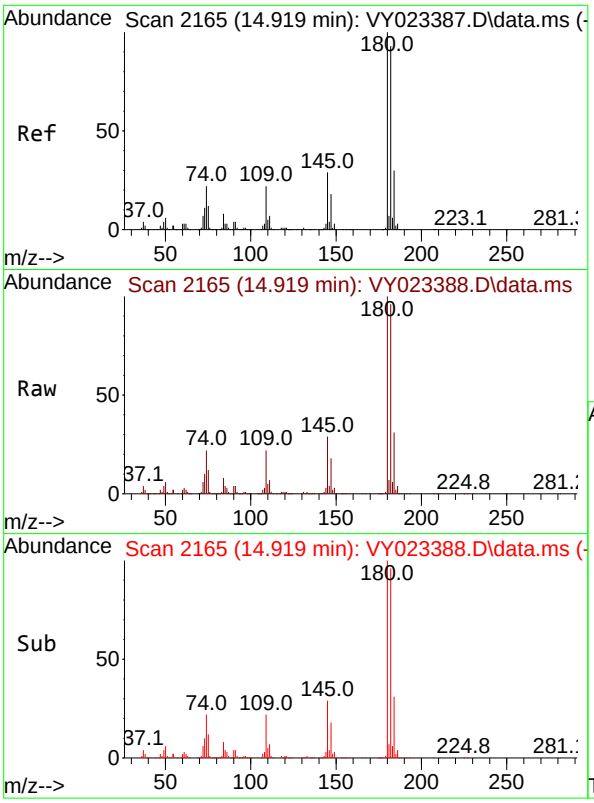
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 99.458 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 70107

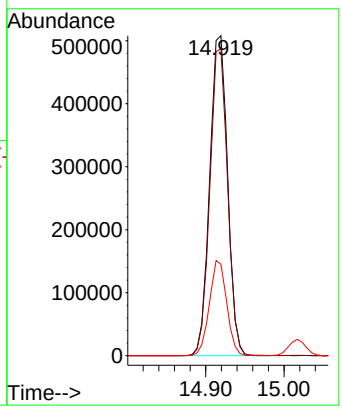
Ion	Ratio	Lower	Upper
75	100		
155	105.2	50.0	150.0
157	135.9	63.8	191.5



#93
1,2,4-Trichlorobenzene
Concen: 116.031 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:180 Resp: 80632

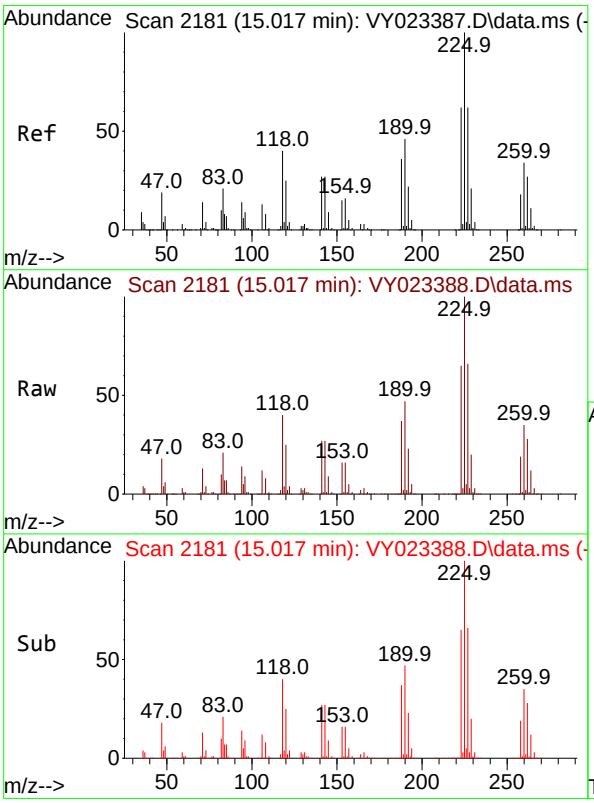
Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.9	143.6
145	28.7	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

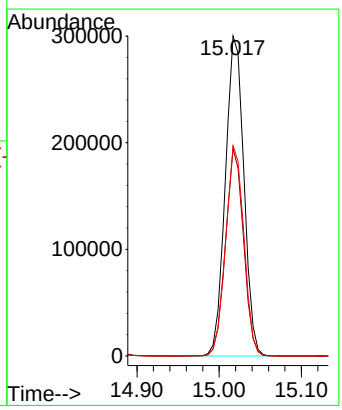
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

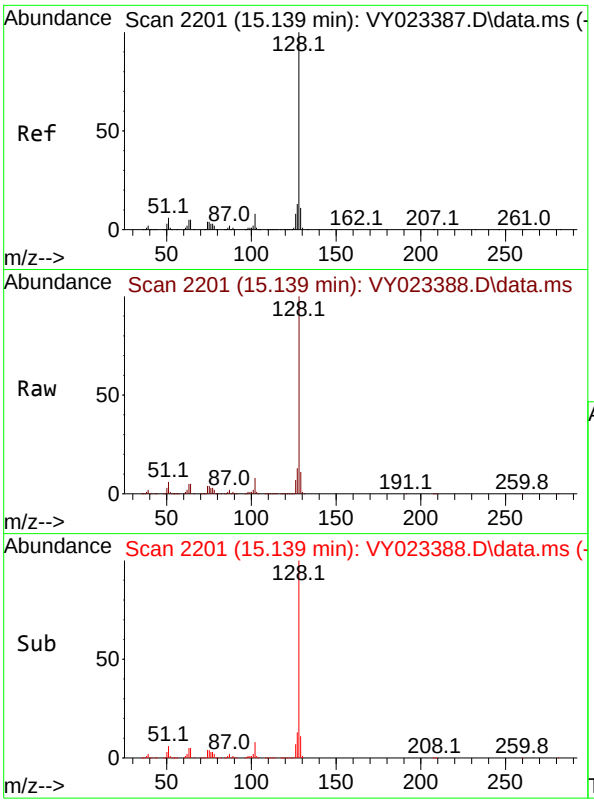


#94
Hexachlorobutadiene
Concen: 108.557 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:225 Resp: 470072

Ion	Ratio	Lower	Upper
225	100		
223	62.9	30.8	92.3
227	64.6	31.9	95.7

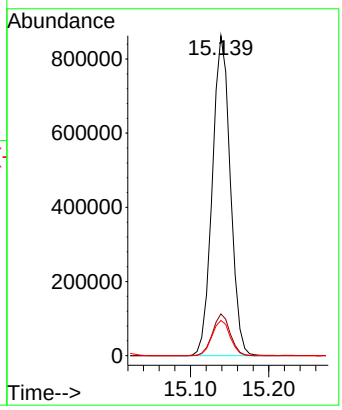




#95
Naphthalene
Concen: 124.485 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:128 Resp: 137829

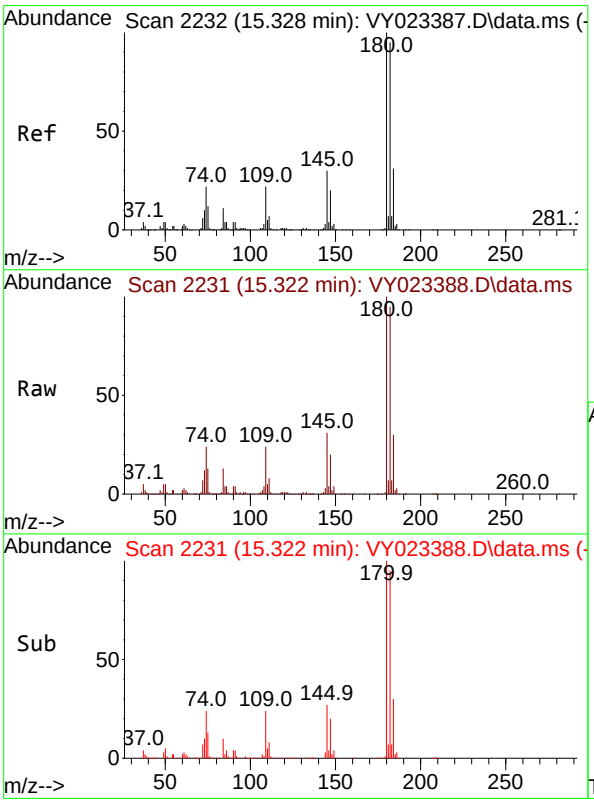
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	11.1	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

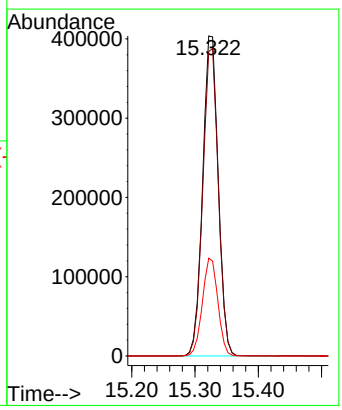
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#96
1,2,3-Trichlorobenzene
Concen: 115.034 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:180 Resp: 693477

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.9	143.8
145	30.3	15.3	45.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023389.D
Acq On : 07 Oct 2025 12:32
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:45:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	588489	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	855488	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	765357	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	402368	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	714730	140.236	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 280.480%#			
35) Dibromofluoromethane	7.634	113	778632	149.977	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 299.960%#			
50) Toluene-d8	10.103	98	2912319	148.741	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 297.480%#			
62) 4-Bromofluorobenzene	12.402	95	990964	160.423	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 320.840%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	587619	126.766	ug/l	97
3) Chloromethane	2.068	50	825167	125.233	ug/l	100
4) Vinyl Chloride	2.208	62	1118134	134.387	ug/l	100
5) Bromomethane	2.580	94	915389	134.118	ug/l	98
6) Chloroethane	2.726	64	756912	133.994	ug/l	99
7) Trichlorofluoromethane	3.050	101	1549160	144.948	ug/l	100
8) Diethyl Ether	3.452	74	418615	149.747	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	786278	137.639	ug/l	99
10) Methyl Iodide	4.007	142	992925	150.409	ug/l	99
11) Tert butyl alcohol	4.866	59	288878	963.279	ug/l	99
12) 1,1-Dichloroethene	3.787	96	781235	142.133	ug/l	97
13) Acrolein	3.653	56	423418	833.323	ug/l	100
14) Allyl chloride	4.385	41	988378	143.628	ug/l	99
15) Acrylonitrile	5.055	53	841857	768.735	ug/l	99
16) Acetone	3.866	43	789668	689.040	ug/l	99
17) Carbon Disulfide	4.104	76	2199339	128.252	ug/l	100
18) Methyl Acetate	4.385	43	505344	173.497	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	2056533	159.802	ug/l	97
20) Methylene Chloride	4.616	84	835005	134.365	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	871380	142.549	ug/l	98
22) Diisopropyl ether	6.019	45	2218430	145.375	ug/l	99
23) Vinyl Acetate	5.958	43	6377047	760.246	ug/l	99
24) 1,1-Dichloroethane	5.915	63	1398477	139.024	ug/l	98
25) 2-Butanone	6.890	43	1116343	788.091	ug/l	97
26) 2,2-Dichloropropane	6.884	77	1281633	143.391	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	1043574	150.505	ug/l	98
28) Bromochloromethane	7.244	49	482210	123.567	ug/l	99
29) Tetrahydrofuran	7.262	42	687719	817.972	ug/l	100
30) Chloroform	7.421	83	1542715	142.221	ug/l	99
31) Cyclohexane	7.701	56	1192778	134.268	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	1405131	144.305	ug/l	100
36) 1,1-Dichloropropene	7.835	75	1069665	146.031	ug/l	100
37) Ethyl Acetate	6.982	43	460027	158.853	ug/l	98
38) Carbon Tetrachloride	7.817	117	1290353	151.646	ug/l	99
39) Methylcyclohexane	9.109	83	1496612	159.580	ug/l	99
40) Benzene	8.079	78	3366812	147.442	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023389.D
Acq On : 07 Oct 2025 12:32
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 08 04:45:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	246974	164.212	ug/l		98
42) 1,2-Dichloroethane	8.158	62	866250	149.063	ug/l		100
43) Isopropyl Acetate	8.195	43	946087	167.955	ug/l		100
44) Trichloroethene	8.866	130	966011	150.740	ug/l		99
45) 1,2-Dichloropropane	9.140	63	752286	146.403	ug/l		99
46) Dibromomethane	9.231	93	483702	153.895	ug/l		99
47) Bromodichloromethane	9.420	83	1202247	151.965	ug/l		98
48) Methyl methacrylate	9.219	41	463614	176.368	ug/l		100
49) 1,4-Dioxane	9.225	88	123991	3809.726	ug/l		97
51) 4-Methyl-2-Pentanone	9.993	43	2516107	872.045	ug/l		100
52) Toluene	10.170	92	2272574	156.786	ug/l		98
53) t-1,3-Dichloropropene	10.390	75	1123644	165.367	ug/l		100
54) cis-1,3-Dichloropropene	9.853	75	1296713	159.654	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	652242	156.020	ug/l		96
56) Ethyl methacrylate	10.438	69	886127	184.048	ug/l		100
57) 1,3-Dichloropropane	10.713	76	1049593	155.122	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.707	63	2040136	968.559	ug/l		100
59) 2-Hexanone	10.755	43	1776032	889.038	ug/l		99
60) Dibromochloromethane	10.908	129	935577	164.084	ug/l		99
61) 1,2-Dibromoethane	11.012	107	639895	162.699	ug/l		99
64) Tetrachloroethene	10.646	164	1046931	136.739	ug/l		98
65) Chlorobenzene	11.438	112	2563176	154.117	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.511	131	923367	157.870	ug/l		99
67) Ethyl Benzene	11.518	91	4341801	159.957	ug/l		97
68) m/p-Xylenes	11.627	106	3502137	321.899	ug/l		99
69) o-Xylene	11.950	106	1694987	168.295	ug/l		98
70) Styrene	11.969	104	2830398	170.203	ug/l		99
71) Bromoform	12.127	173	602644	172.115	ug/l	#	99
73) Isopropylbenzene	12.249	105	4290662	160.084	ug/l		100
74) N-amyl acetate	12.066	43	890882	177.866	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	737773	165.010	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	565754m	142.542	ug/l		
77) Bromobenzene	12.530	156	1111318	161.555	ug/l		100
78) n-propylbenzene	12.591	91	4932015	156.465	ug/l		99
79) 2-Chlorotoluene	12.676	91	2822049	155.063	ug/l		100
80) 1,3,5-Trimethylbenzene	12.731	105	3496249	160.460	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.298	75	245190	166.570	ug/l		98
82) 4-Chlorotoluene	12.773	91	2902371	152.701	ug/l		99
83) tert-Butylbenzene	12.993	119	3220384	162.197	ug/l		97
84) 1,2,4-Trimethylbenzene	13.042	105	3503639	162.527	ug/l		99
85) sec-Butylbenzene	13.170	105	4560715	158.609	ug/l		99
86) p-Isopropyltoluene	13.286	119	4024712	165.622	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	2165278	159.350	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	2090133	155.104	ug/l		100
89) n-Butylbenzene	13.615	91	3505715	163.379	ug/l		99
90) Hexachloroethane	13.877	117	799264	151.487	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	1862691	157.101	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	116273	164.099	ug/l		96
93) 1,2,4-Trichlorobenzene	14.913	180	1272621	182.183	ug/l		100
94) Hexachlorobutadiene	15.017	225	711748	163.518	ug/l		98
95) Naphthalene	15.139	128	2277549	204.639	ug/l		100
96) 1,2,3-Trichlorobenzene	15.322	180	1110193	183.206	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023389.D
Acq On : 07 Oct 2025 12:32
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 04:45:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

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

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

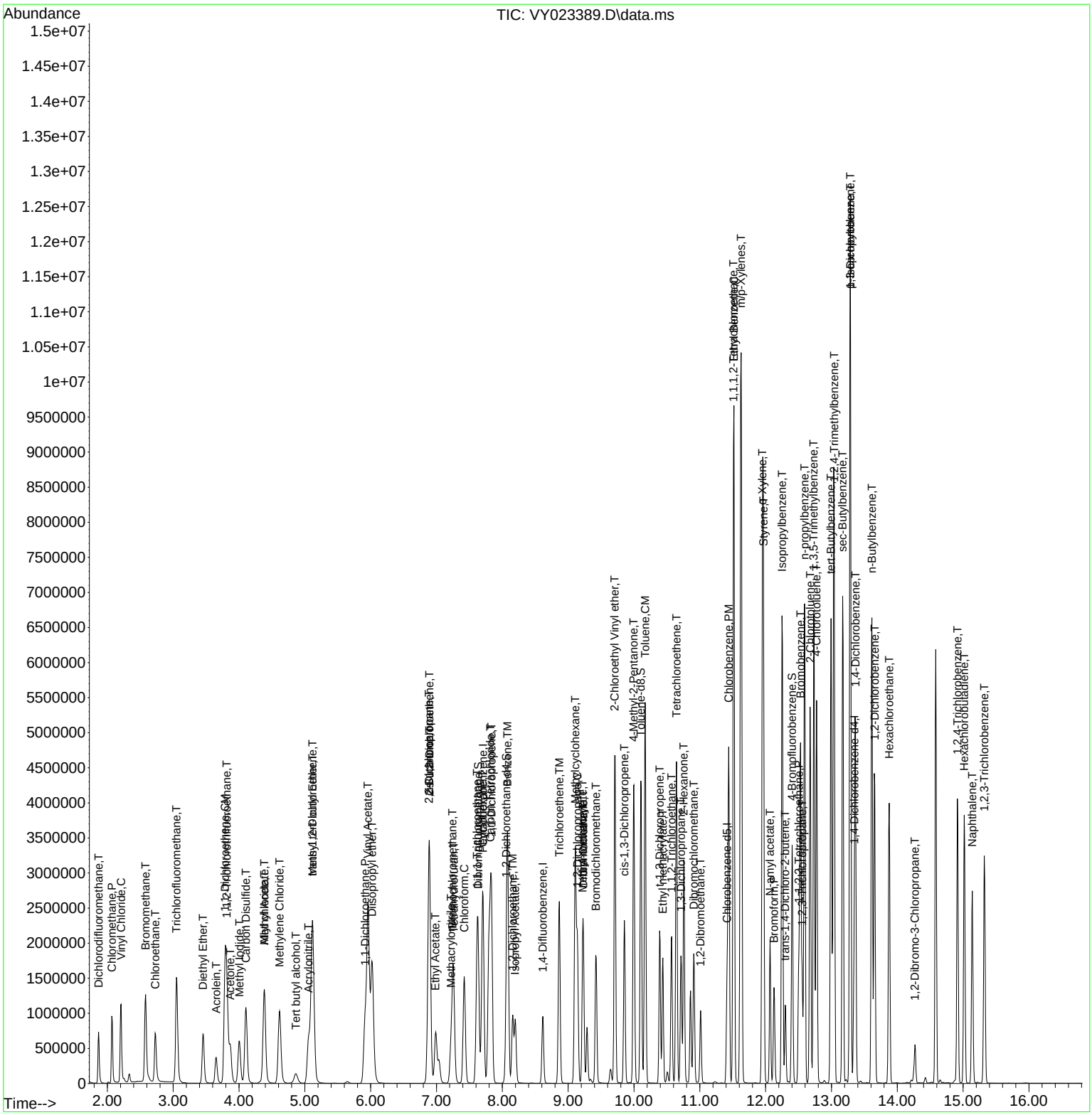
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Data File : VY023389.D
Acq On : 07 Oct 2025 12:32
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

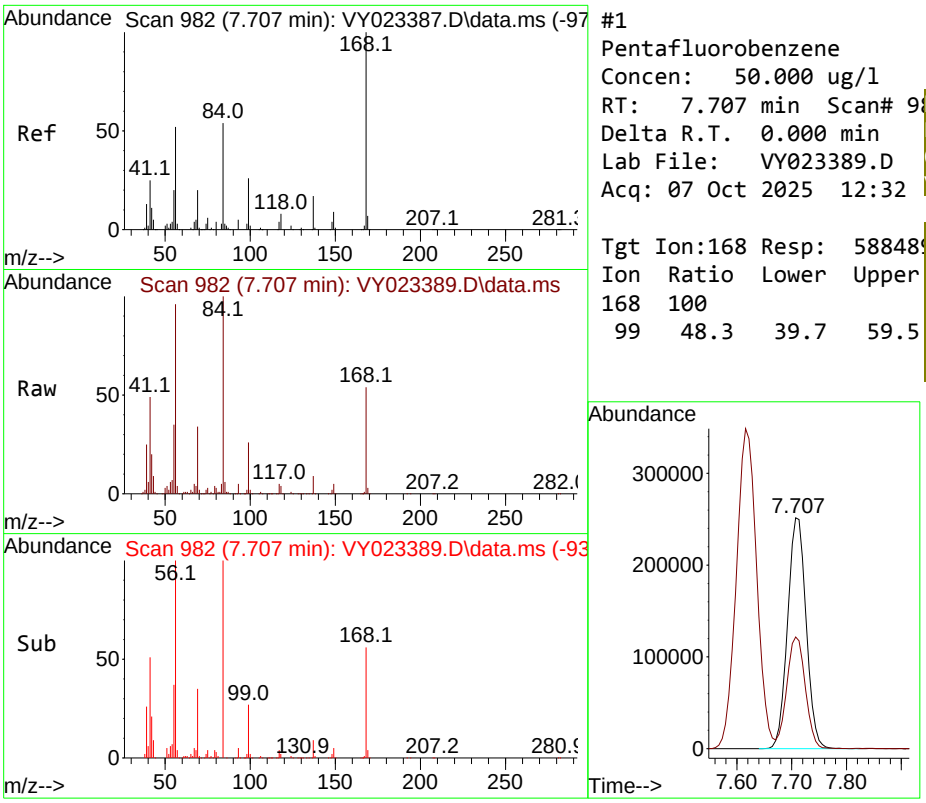
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Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

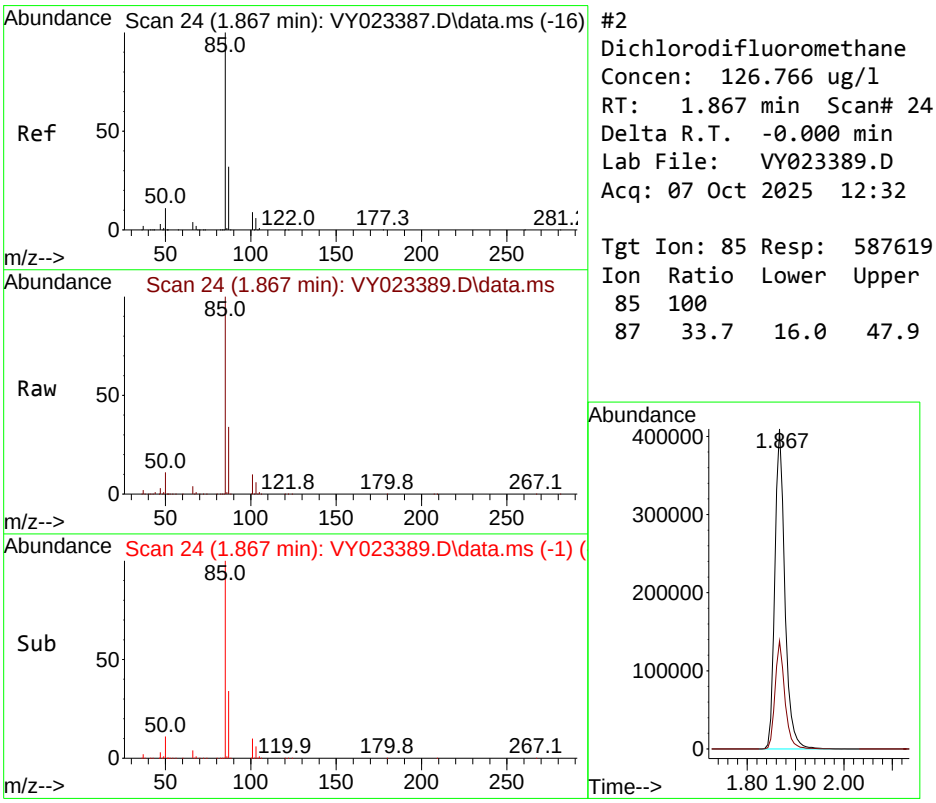
Tgt Ion:168 Resp: 58848

Ion	Ratio	Lower	Upper
168	100		
99	48.3	39.7	59.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

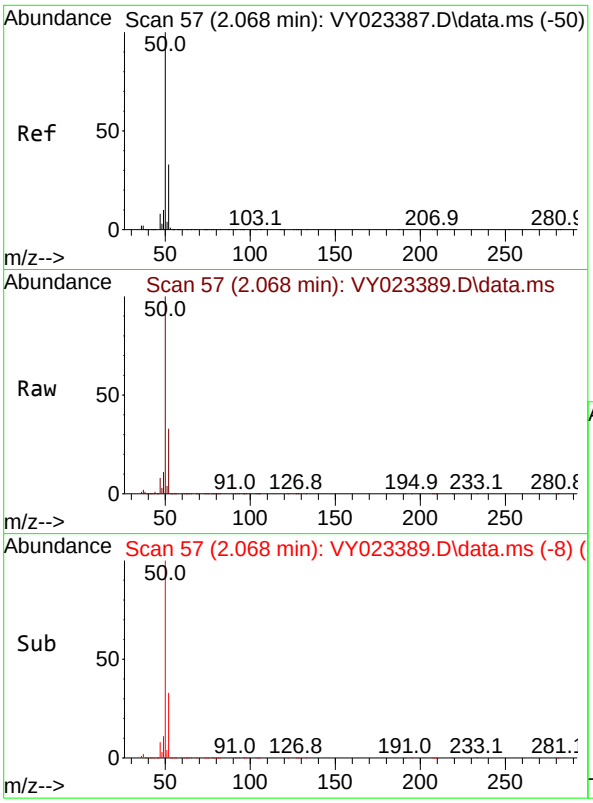
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#2
Dichlorodifluoromethane
Concen: 126.766 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 85 Resp: 587619

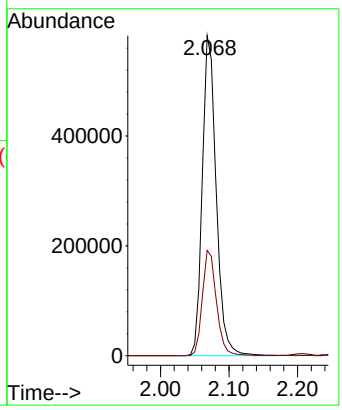
Ion	Ratio	Lower	Upper
85	100		
87	33.7	16.0	47.9



#3
Chloromethane
Concen: 125.233 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 50 Resp: 82516

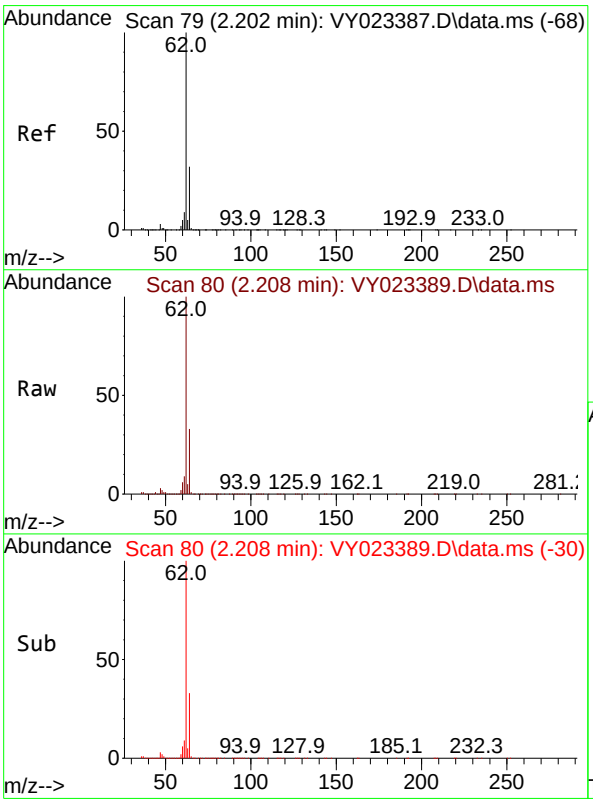
Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

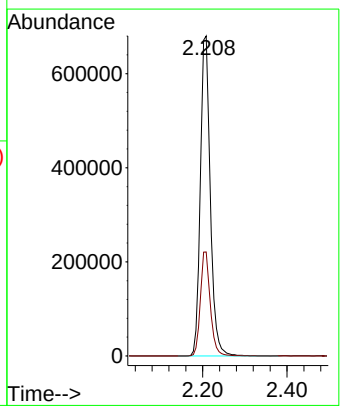
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

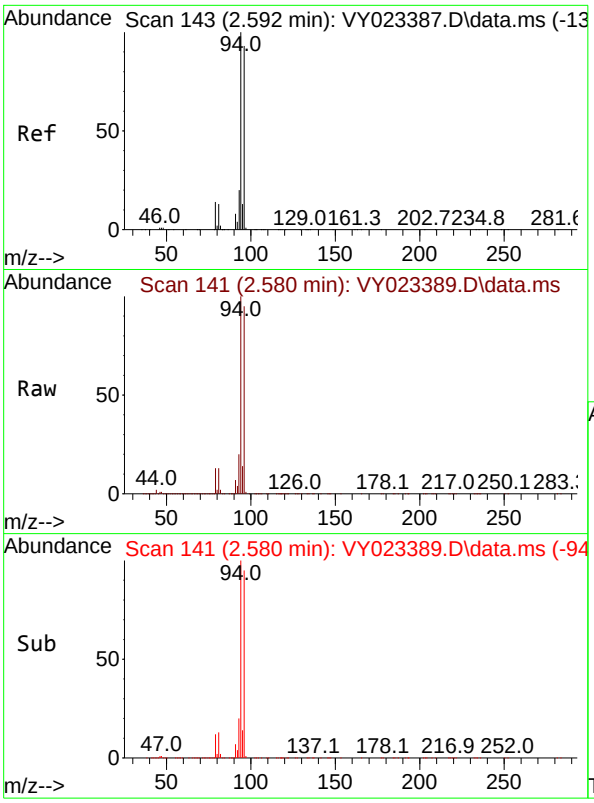


#4
Vinyl Chloride
Concen: 134.387 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 62 Resp: 1118134

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.8	38.8

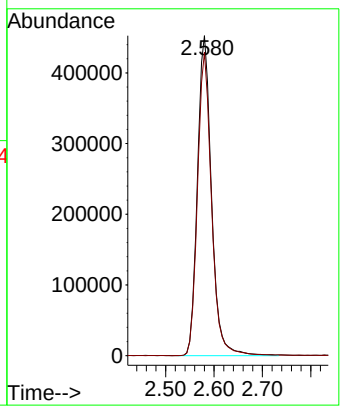




#5
Bromomethane
Concen: 134.118 ug/l
RT: 2.580 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 94 Resp: 91538

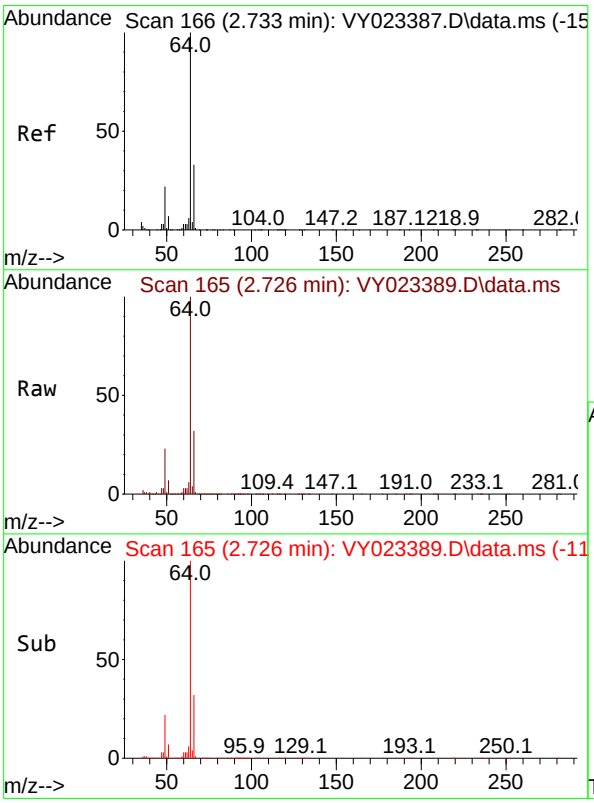
Ion	Ratio	Lower	Upper
94	100		
96	94.8	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

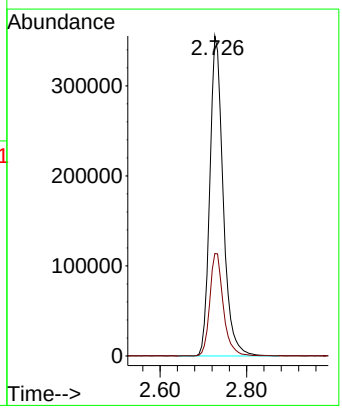
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

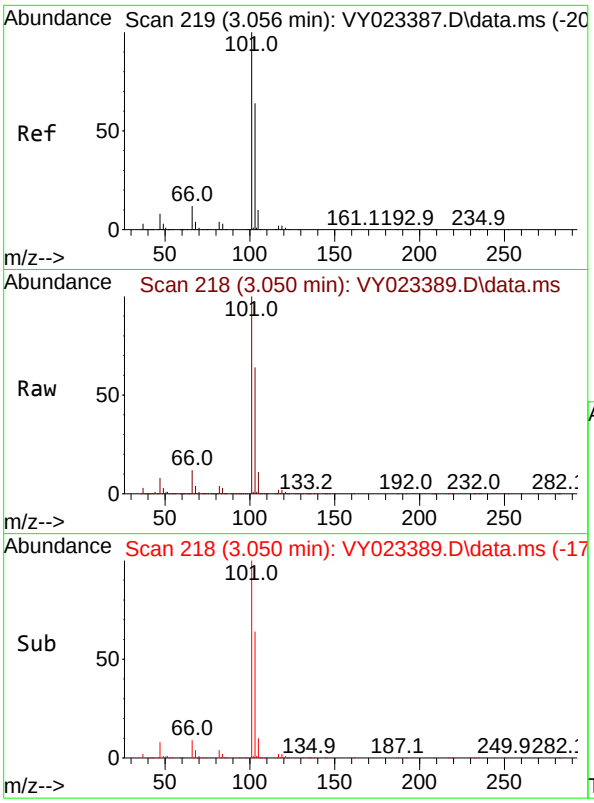


#6
Chloroethane
Concen: 133.994 ug/l
RT: 2.726 min Scan# 165
Delta R.T. -0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 64 Resp: 756912

Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.2	39.4





#7
Trichlorofluoromethane
Concen: 144.948 ug/l
RT: 3.050 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

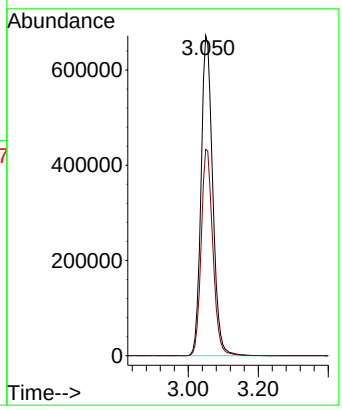
Tgt Ion:101 Resp: 154916

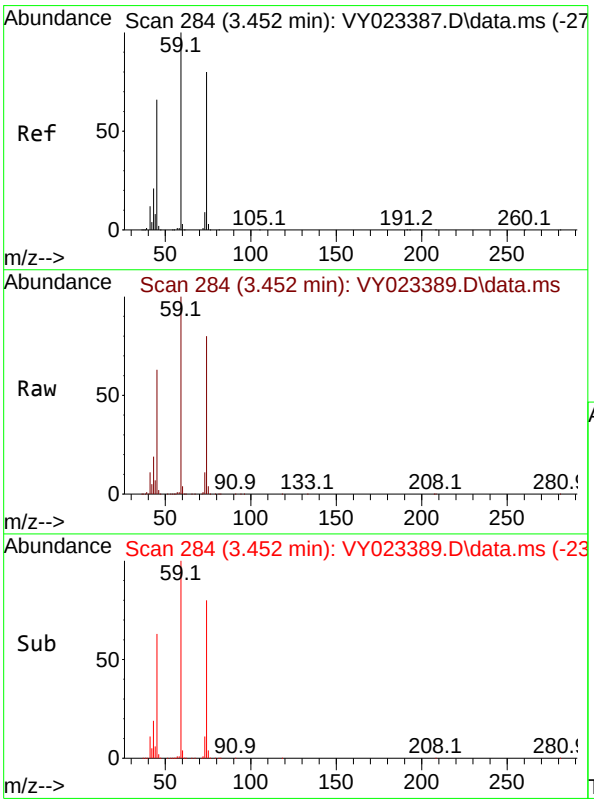
Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.3	76.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

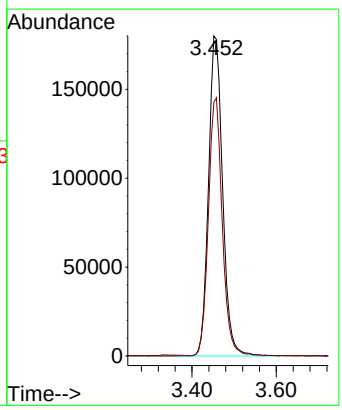


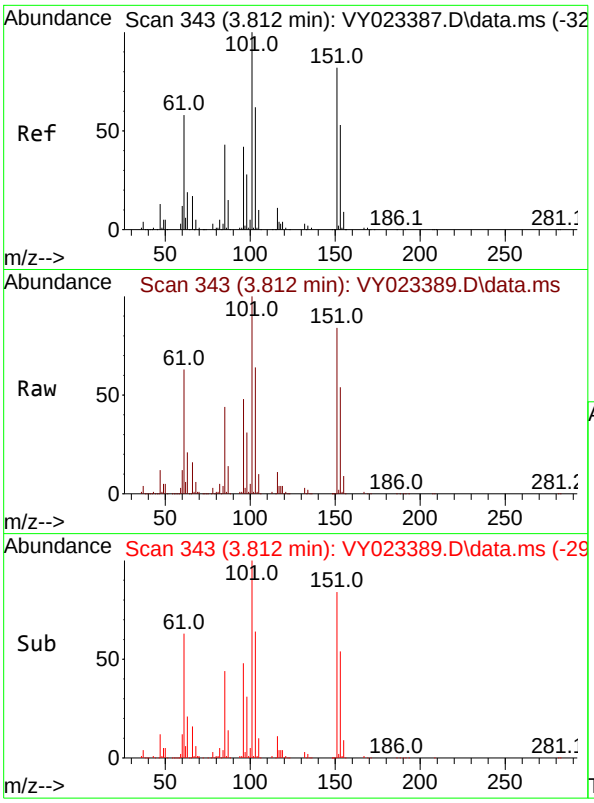


#8
Diethyl Ether
Concen: 149.747 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 74 Resp: 418615

Ion	Ratio	Lower	Upper
74	100		
45	79.7	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 137.639 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

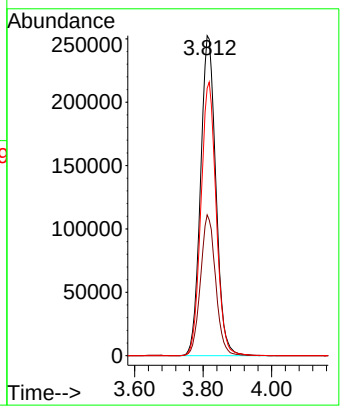
Tgt Ion:101 Resp: 78627

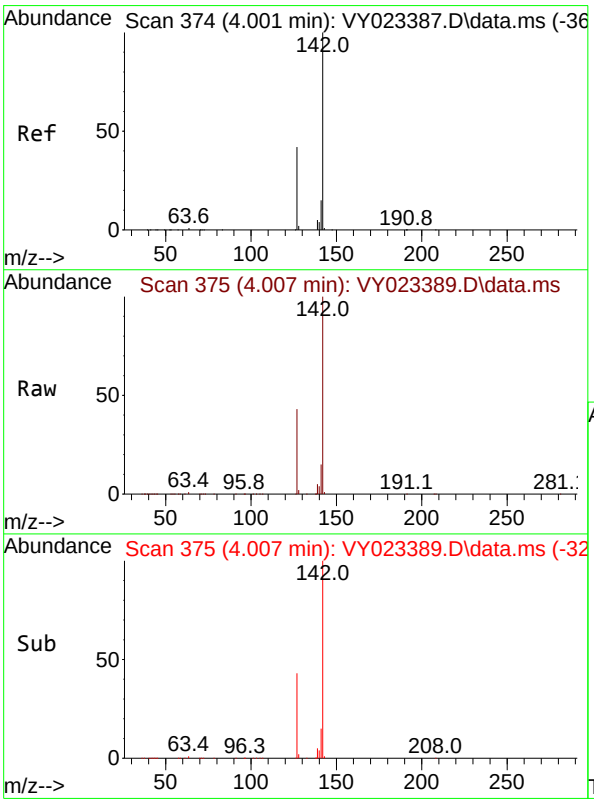
Ion	Ratio	Lower	Upper
101	100		
85	43.5	34.6	51.8
151	85.2	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

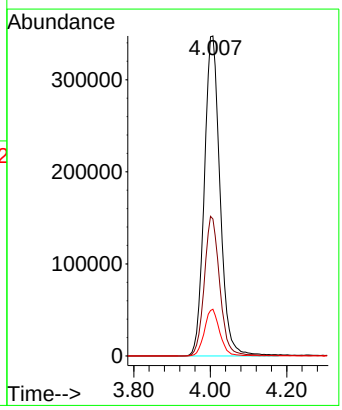


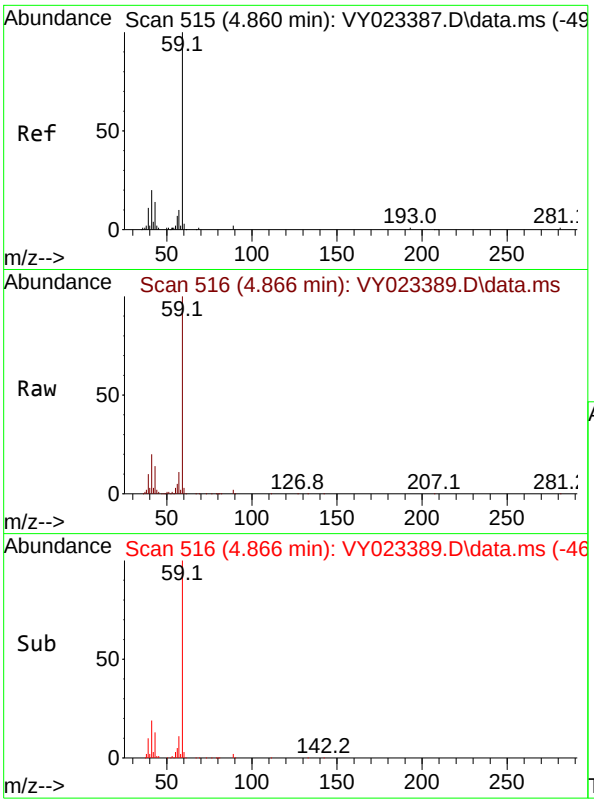


#10
Methyl Iodide
Concen: 150.409 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:142 Resp: 992925

Ion	Ratio	Lower	Upper
142	100		
127	42.8	34.8	52.2
141	14.1	11.6	17.4

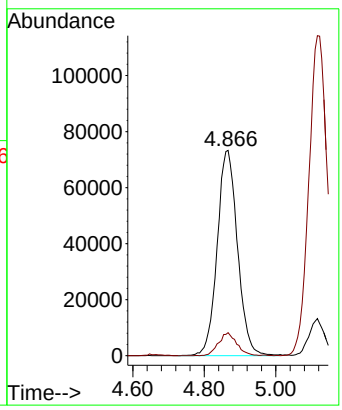




#11
Tert butyl alcohol
Concen: 963.279 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 59 Resp: 28887

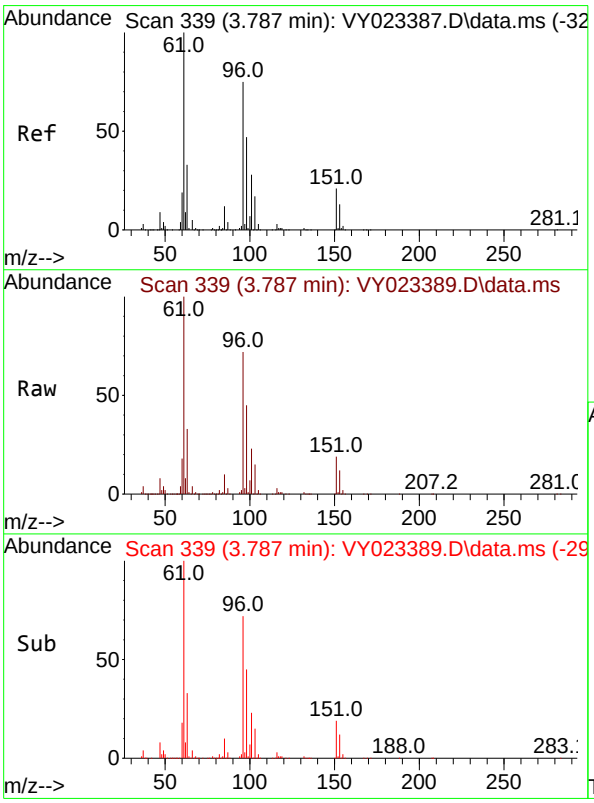
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

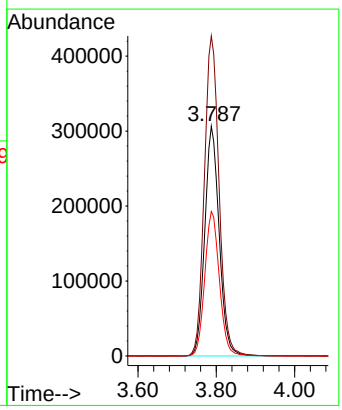
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

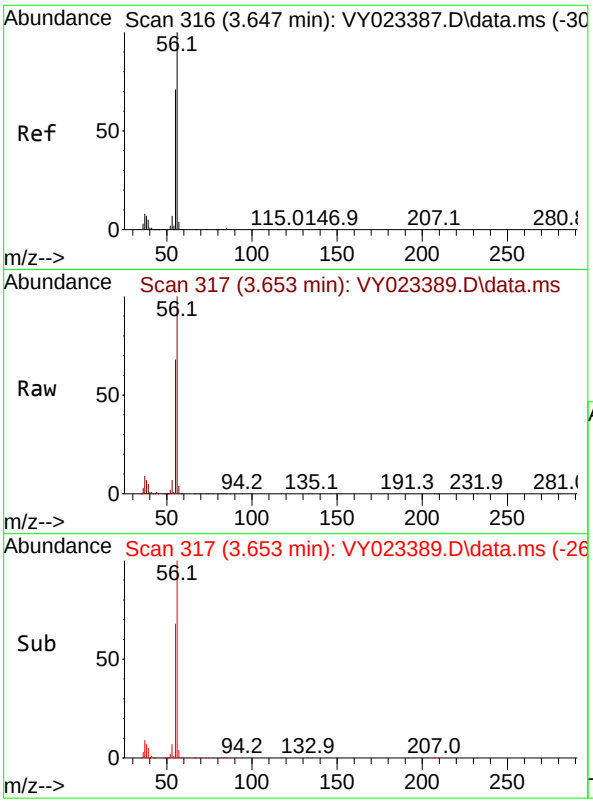


#12
1,1-Dichloroethene
Concen: 142.133 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 96 Resp: 781235

Ion	Ratio	Lower	Upper
96	100		
61	139.3	106.7	160.1
98	62.9	50.2	75.4

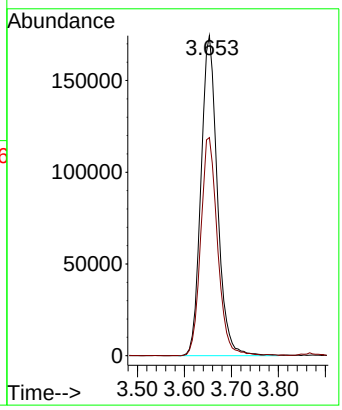




#13
Acrolein
Concen: 833.323 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 56 Resp: 42341

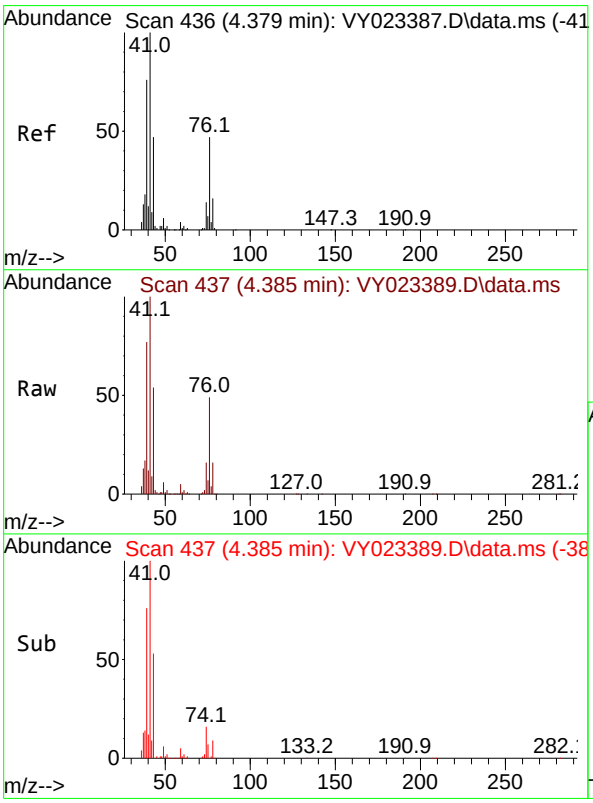
Ion	Ratio	Lower	Upper
56	100		
55	69.7	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

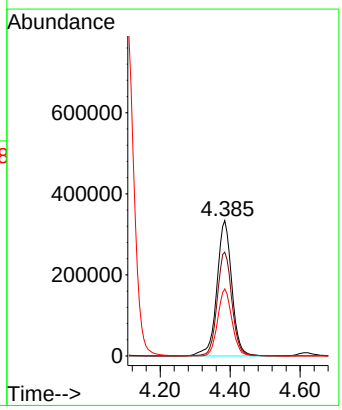
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

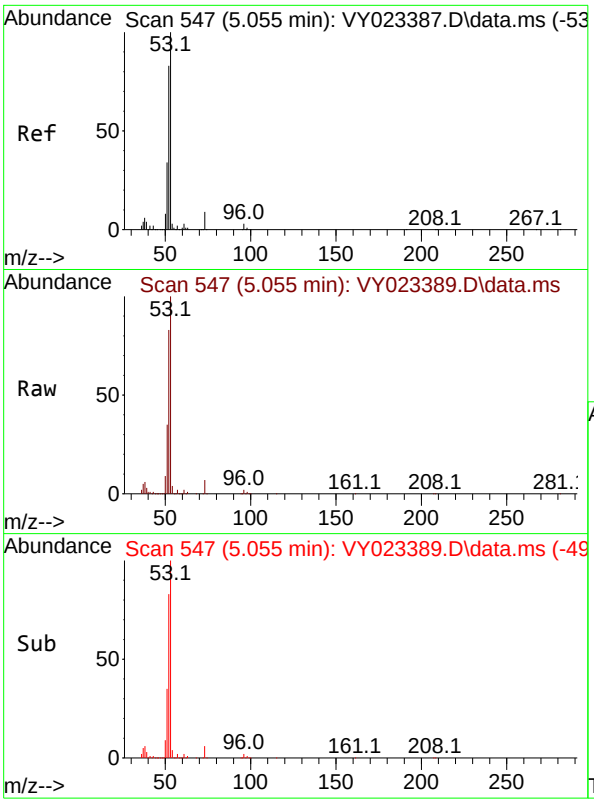


#14
Allyl chloride
Concen: 143.628 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 41 Resp: 988378

Ion	Ratio	Lower	Upper
41	100		
39	75.6	59.9	89.9
76	47.2	38.0	57.0

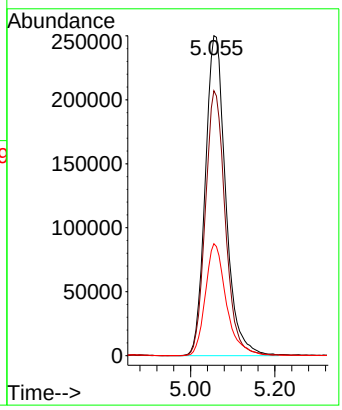




#15
Acrylonitrile
Concen: 768.735 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 53 Resp: 84185

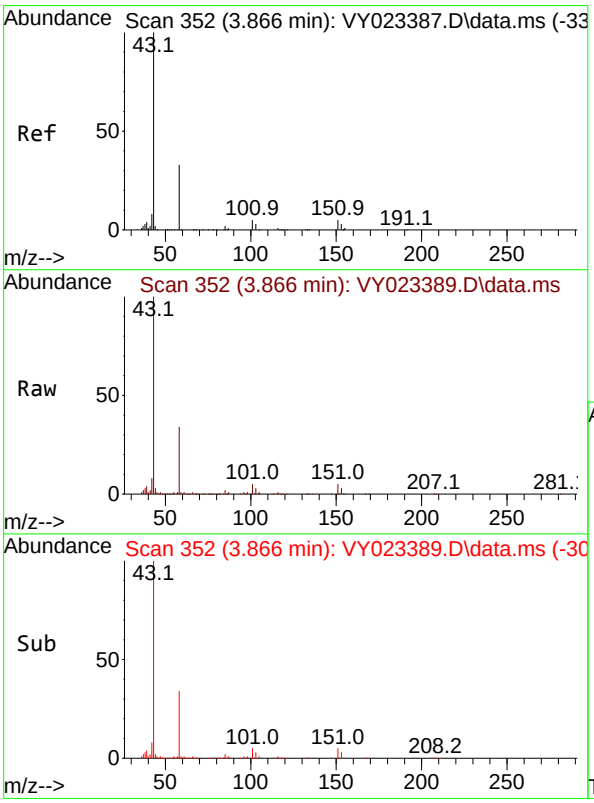
Ion	Ratio	Lower	Upper
53	100		
52	80.9	64.6	97.0
51	36.0	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

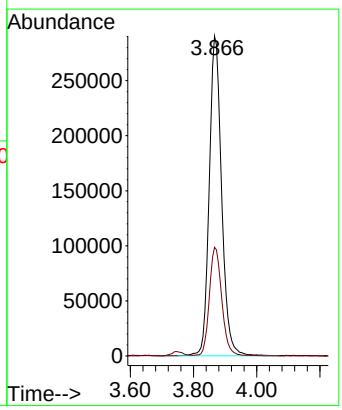
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

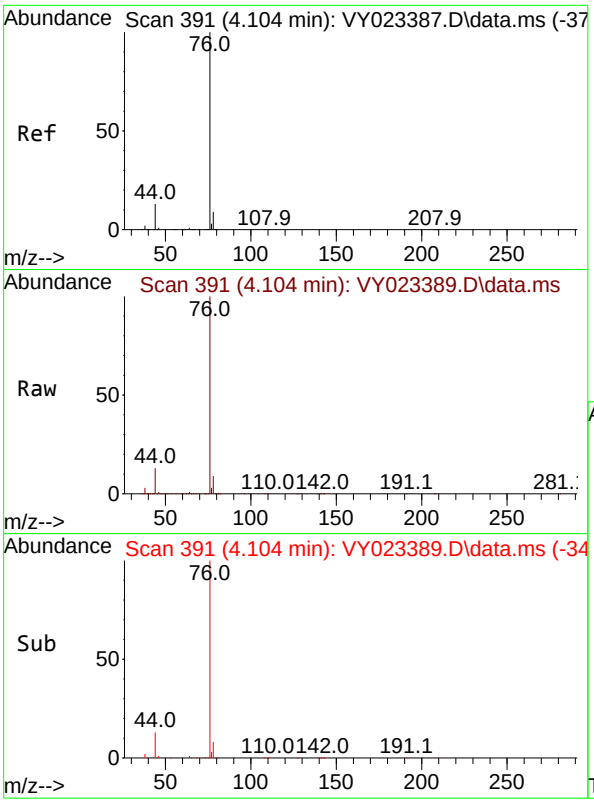


#16
Acetone
Concen: 689.040 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 789668

Ion	Ratio	Lower	Upper
43	100		
58	34.0	27.7	41.5

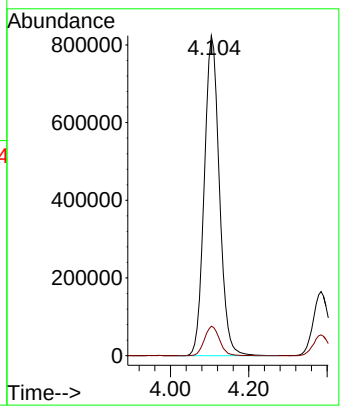




#17
Carbon Disulfide
Concen: 128.252 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 76 Resp: 219933

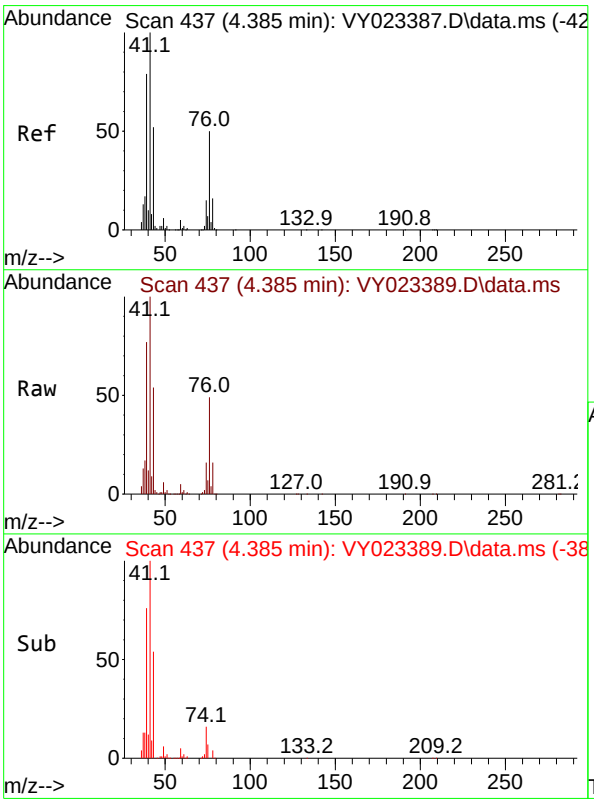
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

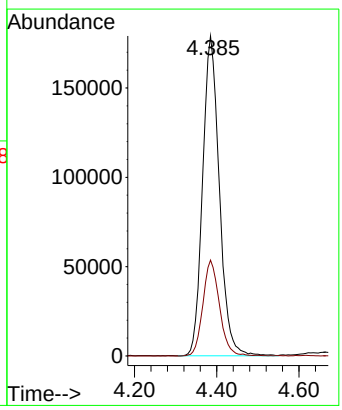
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

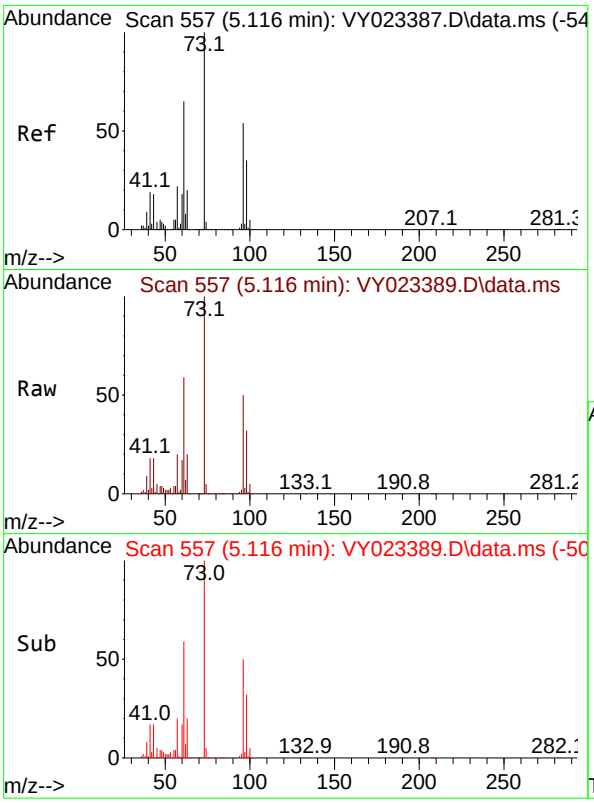


#18
Methyl Acetate
Concen: 173.497 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 505344

Ion	Ratio	Lower	Upper
43	100		
74	29.7	24.2	36.4

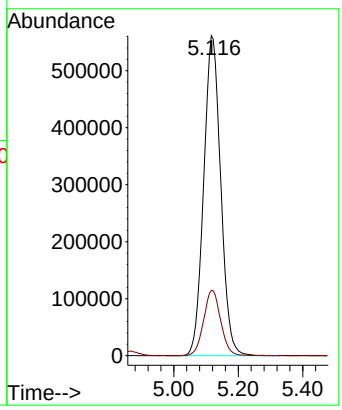




#19
Methyl tert-butyl Ether
Concen: 159.802 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 73 Resp: 205653

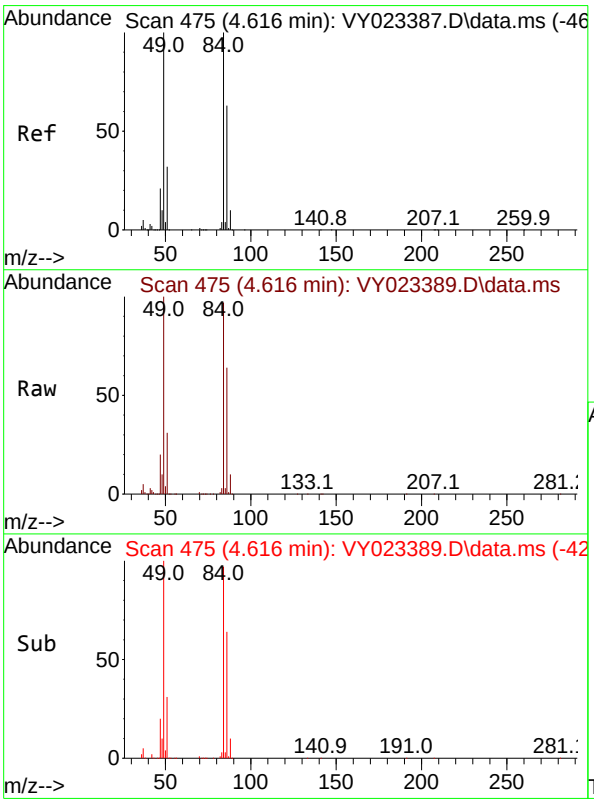
Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

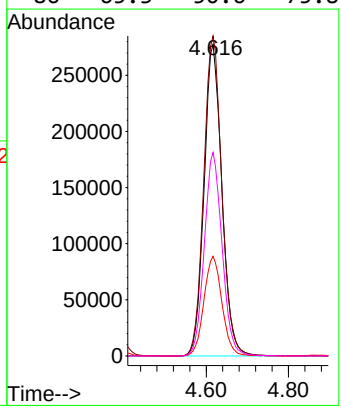
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

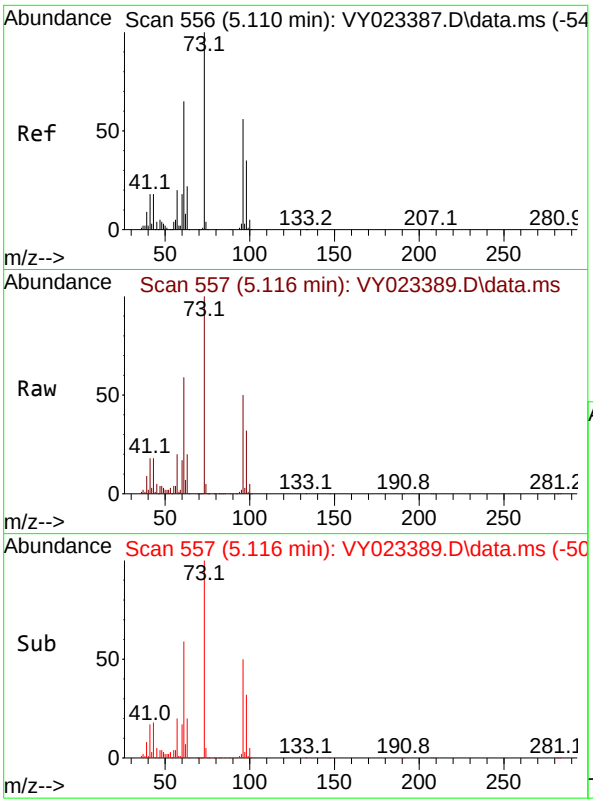


#20
Methylene Chloride
Concen: 134.365 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 84 Resp: 835005

Ion	Ratio	Lower	Upper
84	100		
49	102.7	80.2	120.4
51	31.9	25.9	38.9
86	65.3	50.6	75.8

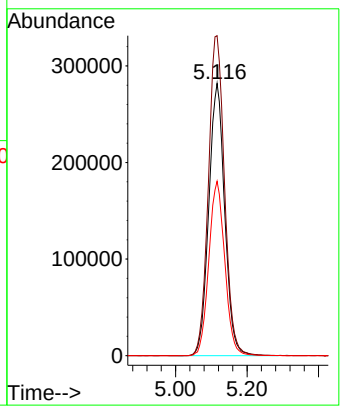




#21
trans-1,2-Dichloroethene
Concen: 142.549 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 96 Resp: 87138

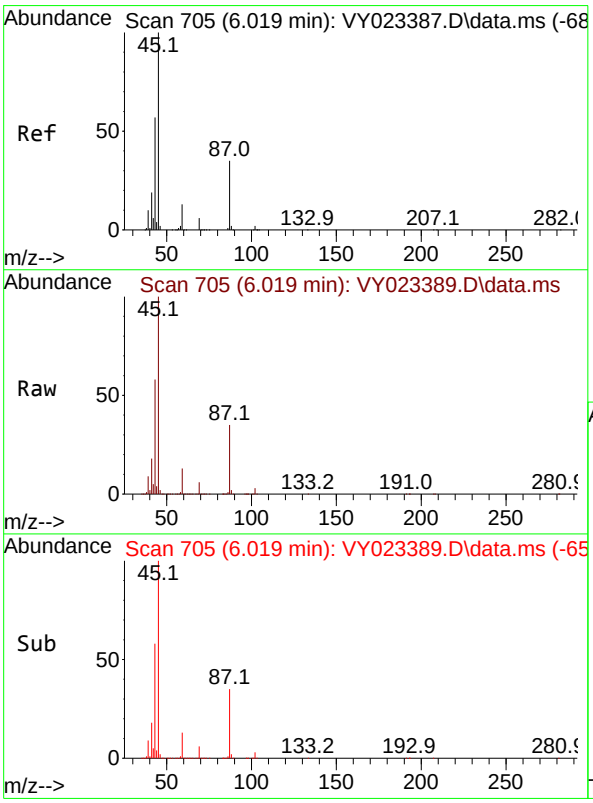
Ion	Ratio	Lower	Upper
96	100		
61	117.5	92.7	139.1
98	64.1	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

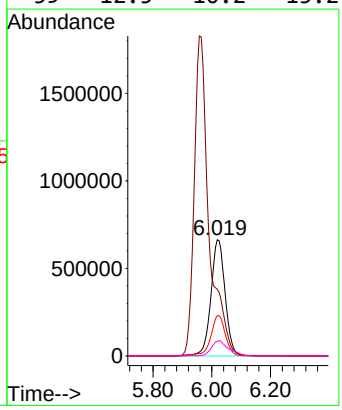
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

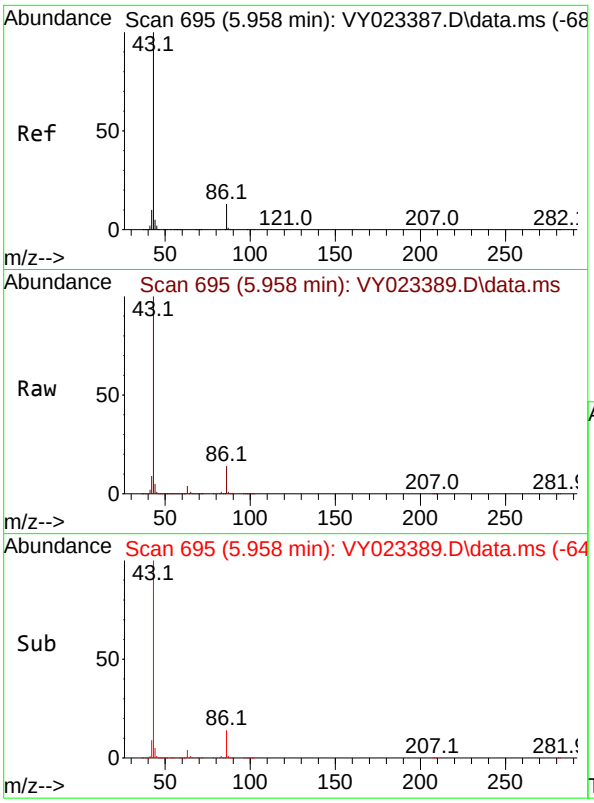


#22
Diisopropyl ether
Concen: 145.375 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 45 Resp: 2218430

Ion	Ratio	Lower	Upper
45	100		
43	57.6	45.6	68.4
87	34.7	28.1	42.1
59	12.5	10.2	15.2

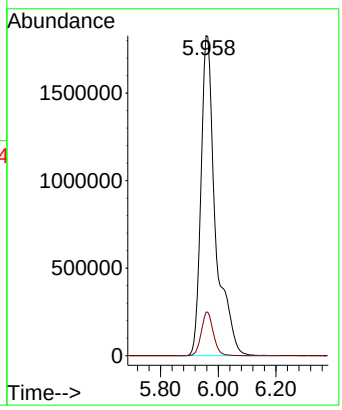




#23
Vinyl Acetate
Concen: 760.246 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 637704

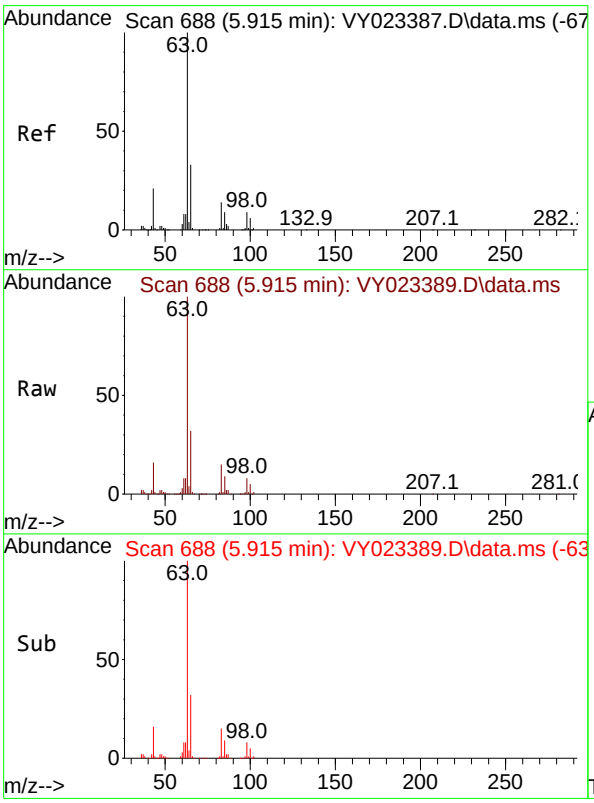
Ion	Ratio	Lower	Upper
43	100		
86	13.6	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

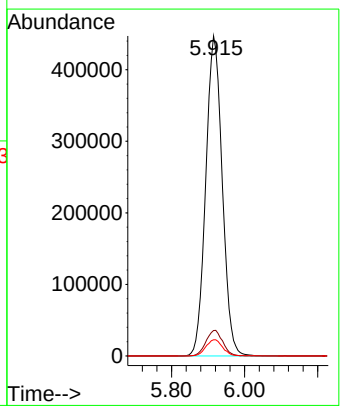
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

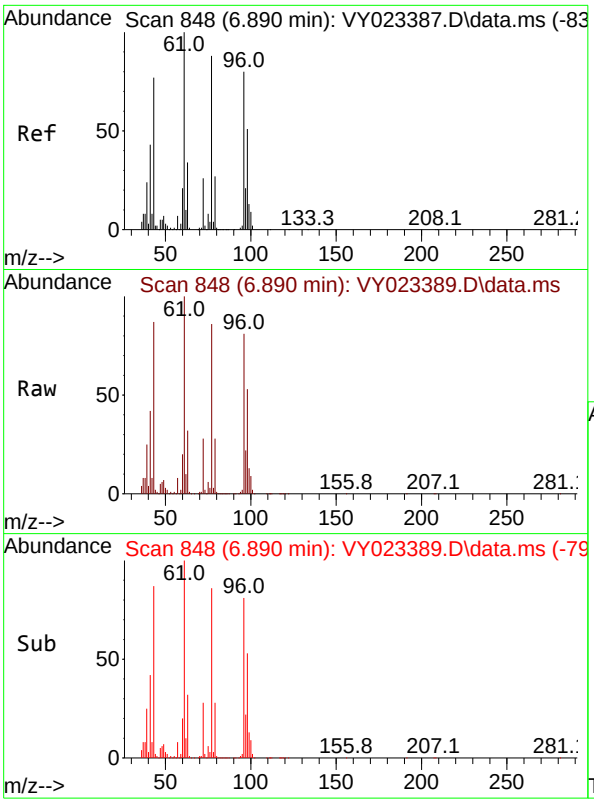


#24
1,1-Dichloroethane
Concen: 139.024 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 63 Resp: 1398477

Ion	Ratio	Lower	Upper
63	100		
98	8.0	4.3	13.1
100	5.0	2.8	8.4

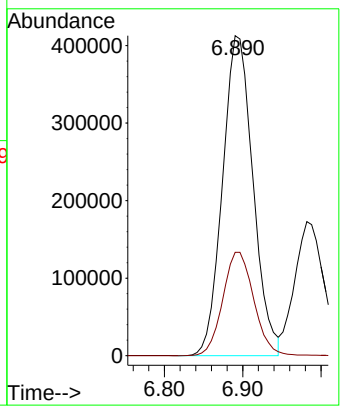




#25
2-Butanone
Concen: 788.091 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 111634

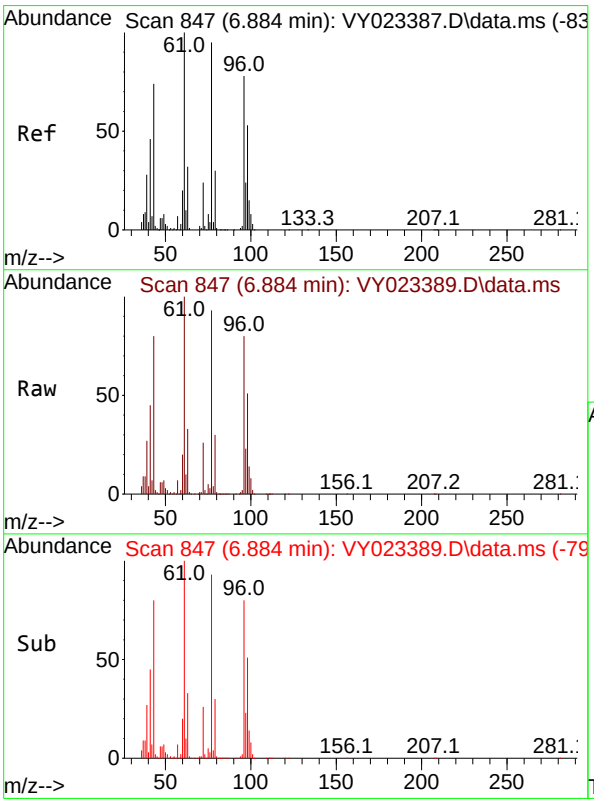
Ion	Ratio	Lower	Upper
43	100		
72	32.3	27.4	41.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

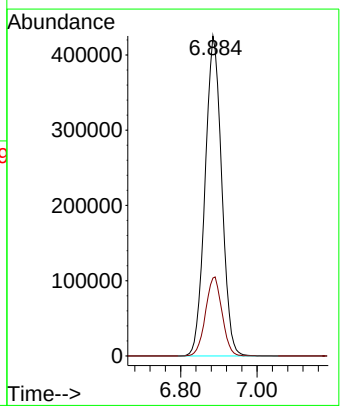
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

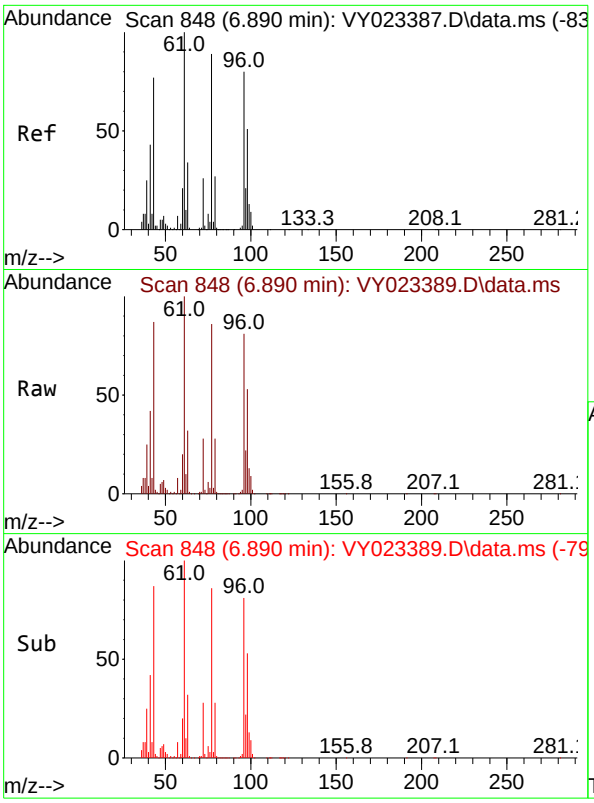


#26
2,2-Dichloropropane
Concen: 143.391 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 77 Resp: 1281633

Ion	Ratio	Lower	Upper
77	100		
97	24.6	12.1	36.3

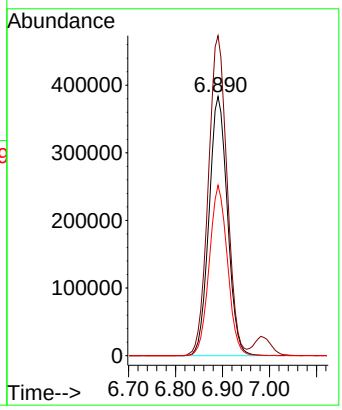




#27
cis-1,2-Dichloroethene
Concen: 150.505 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 96 Resp: 104357

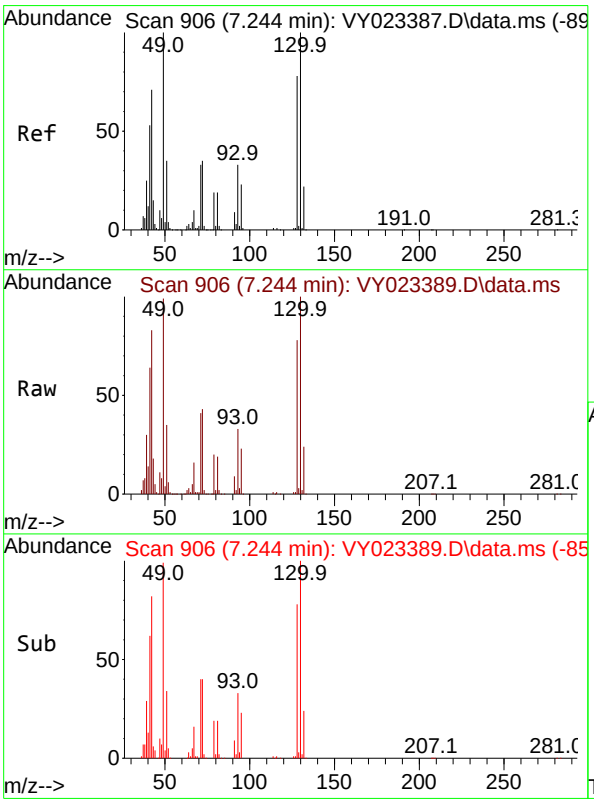
Ion	Ratio	Lower	Upper
96	100		
61	125.7	0.0	258.2
98	65.0	0.0	132.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

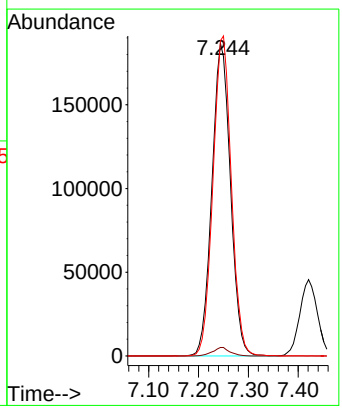
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

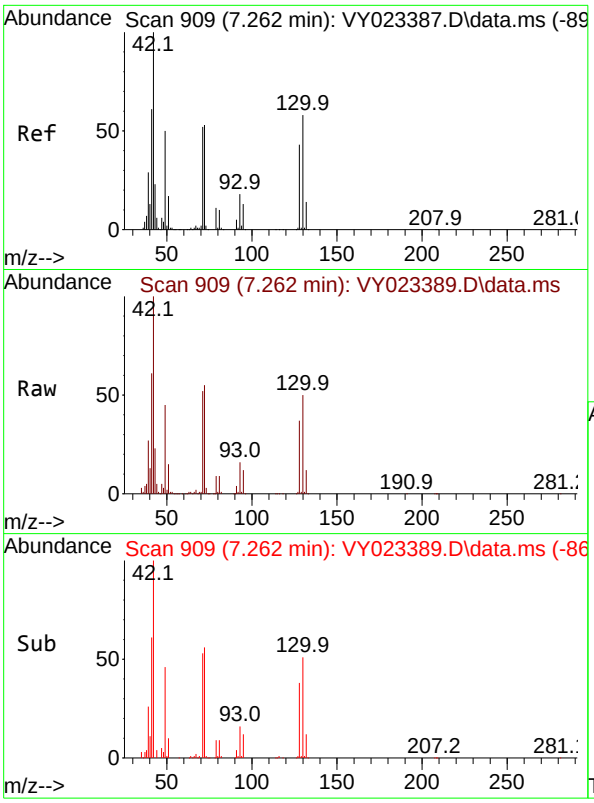


#28
Bromochloromethane
Concen: 123.567 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 49 Resp: 482210

Ion	Ratio	Lower	Upper
49	100		
129	2.5	0.0	5.6
130	101.2	81.9	122.9

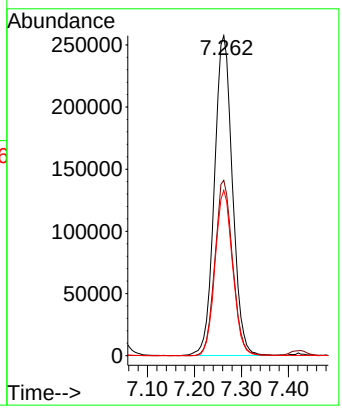




#29
Tetrahydrofuran
Concen: 817.972 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 42 Resp: 68771(

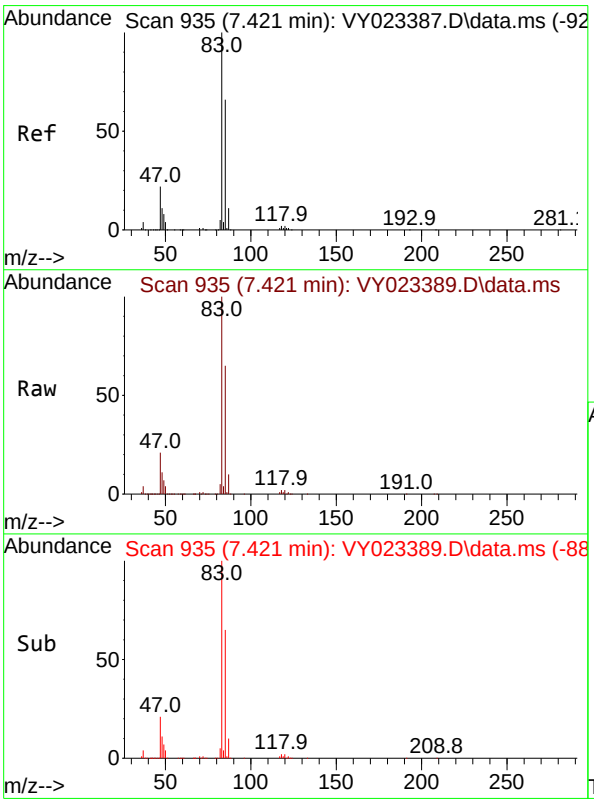
Ion	Ratio	Lower	Upper
42	100		
72	53.9	43.0	64.6
71	50.4	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

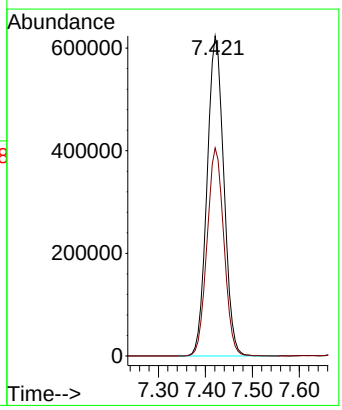
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

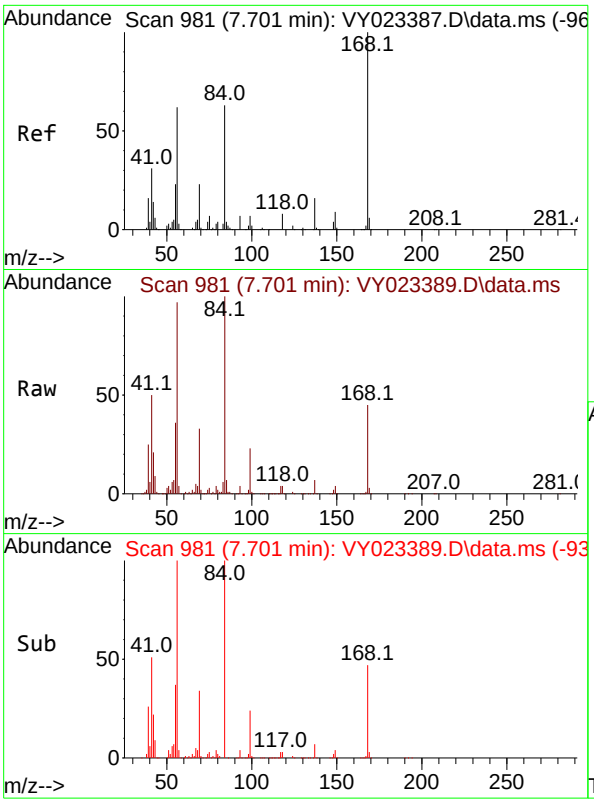


#30
Chloroform
Concen: 142.221 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 83 Resp: 1542715

Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.5	78.7

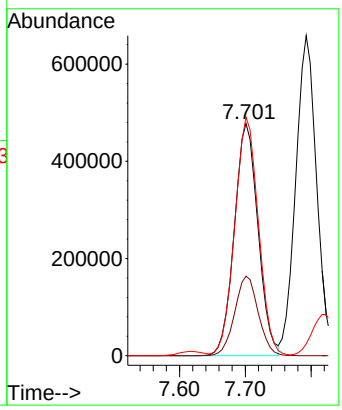




#31
Cyclohexane
Concen: 134.268 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 56 Resp: 119277

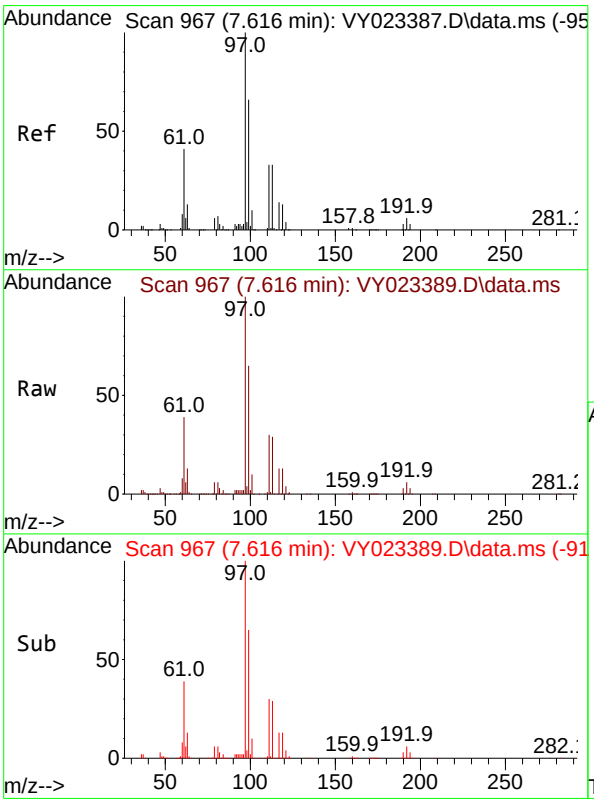
Ion	Ratio	Lower	Upper
56	100		
69	34.2	30.0	45.0
84	101.7	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

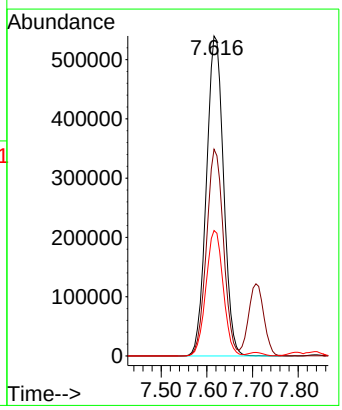
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

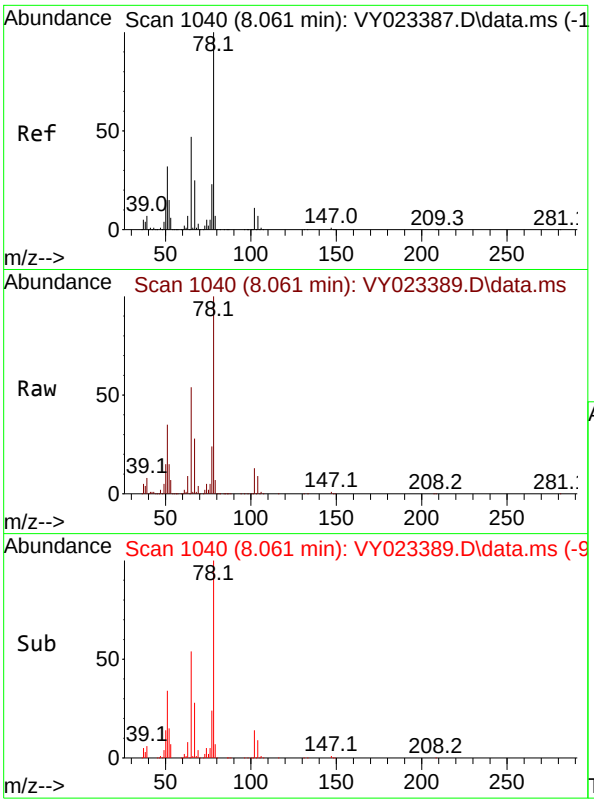


#32
1,1,1-Trichloroethane
Concen: 144.305 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 97 Resp: 1405131

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.2
61	39.5	31.9	47.9

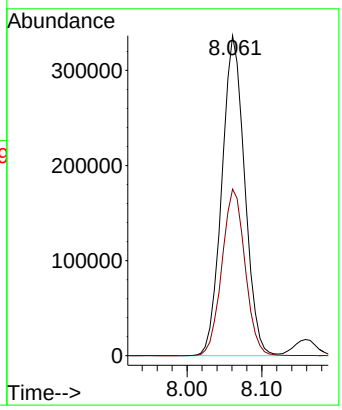




#33
1,2-Dichloroethane-d4
Concen: 140.236 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 65 Resp: 71473

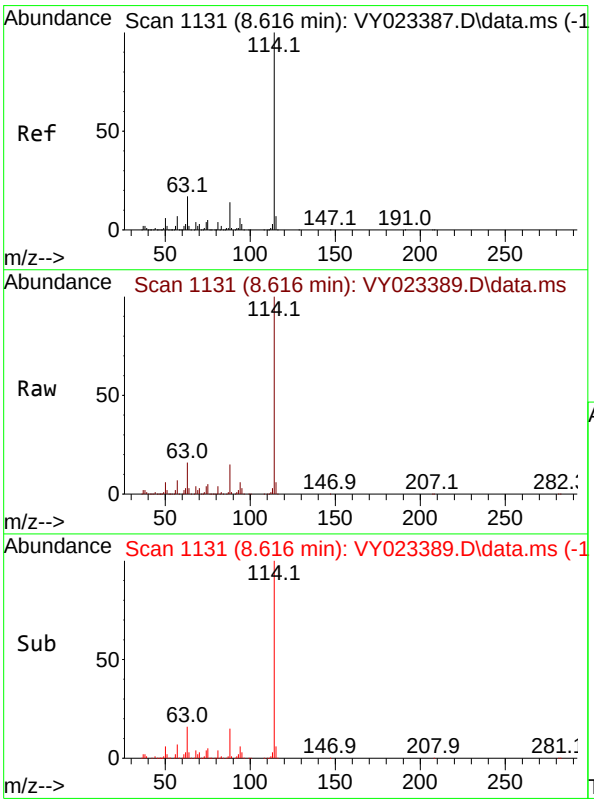
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

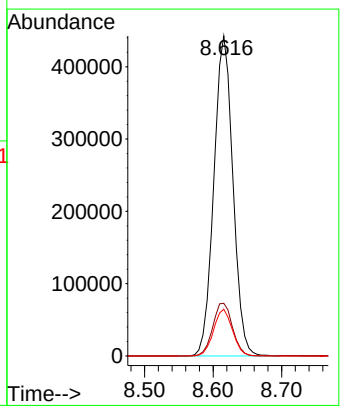
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

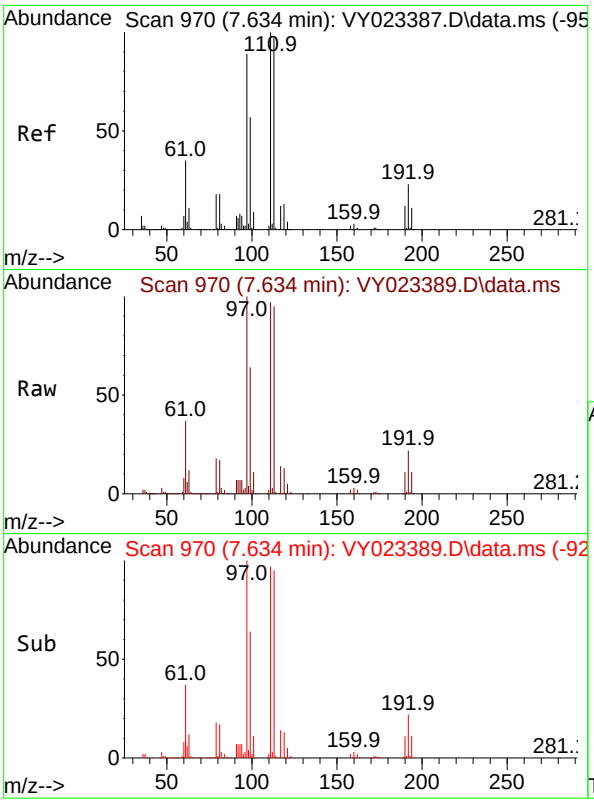


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:114 Resp: 855488

Ion	Ratio	Lower	Upper
114	100		
63	16.4	0.0	34.2
88	14.6	0.0	28.4

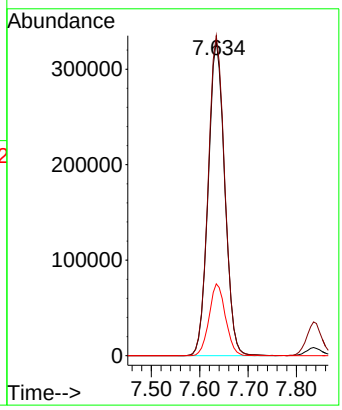




#35
Dibromofluoromethane
Concen: 149.977 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:113 Resp: 77863

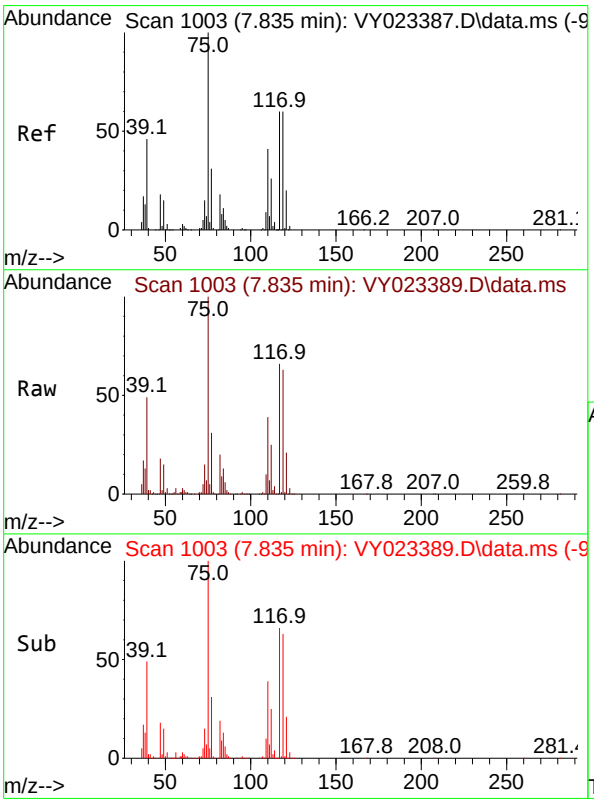
Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.6
192	22.7	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

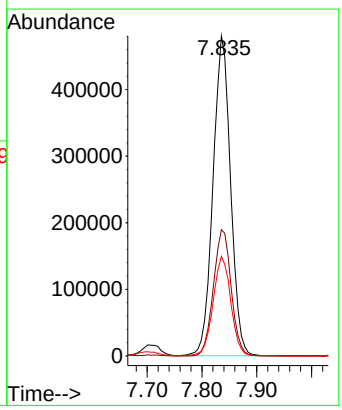
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

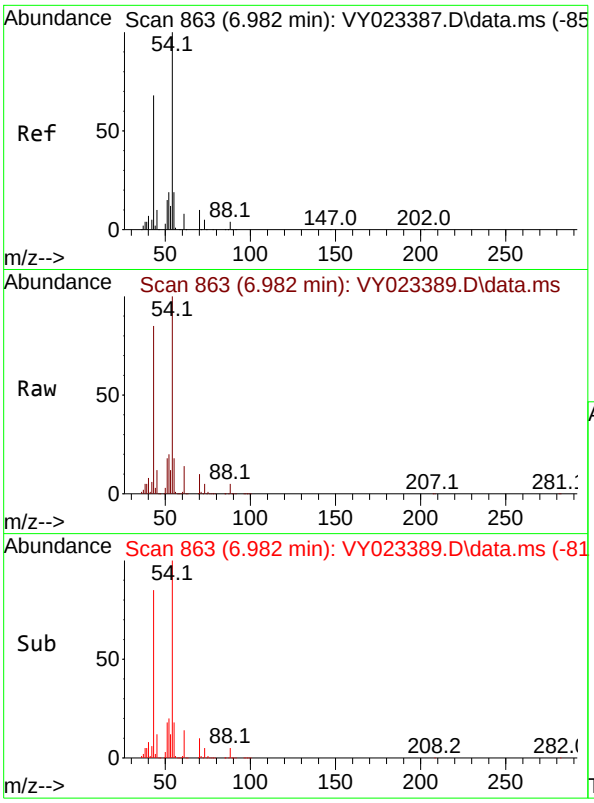


#36
1,1-Dichloropropene
Concen: 146.031 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 1069665

Ion	Ratio	Lower	Upper
75	100		
110	39.9	19.9	59.7
77	31.4	25.0	37.6

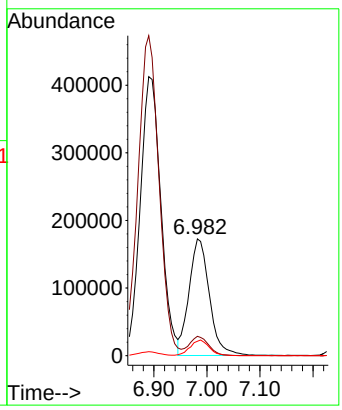




#37
Ethyl Acetate
Concen: 158.853 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 46002

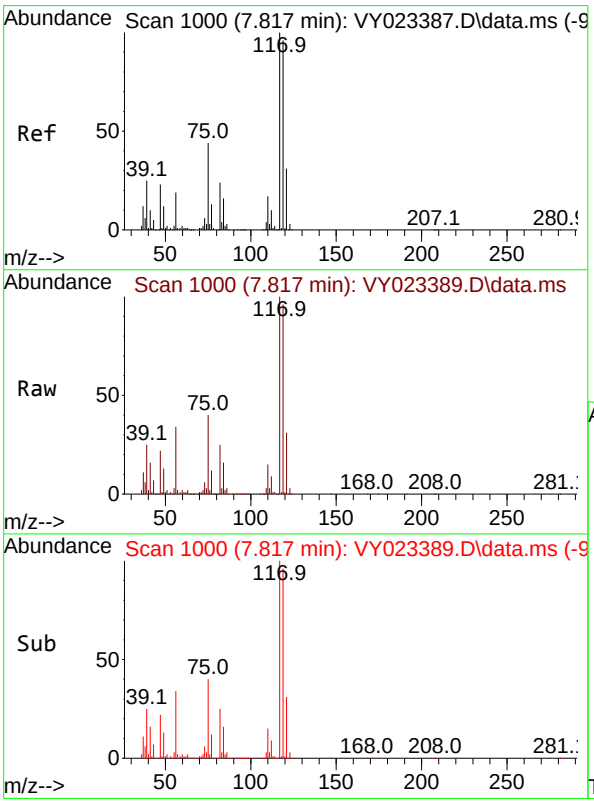
Ion	Ratio	Lower	Upper
43	100		
61	15.9	11.8	17.8
70	12.7	10.5	15.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

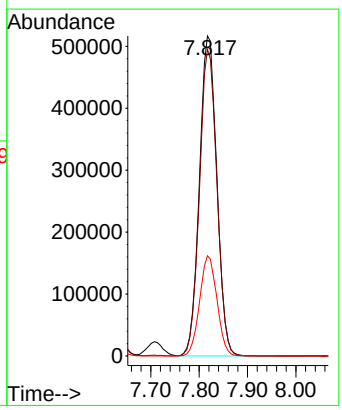
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

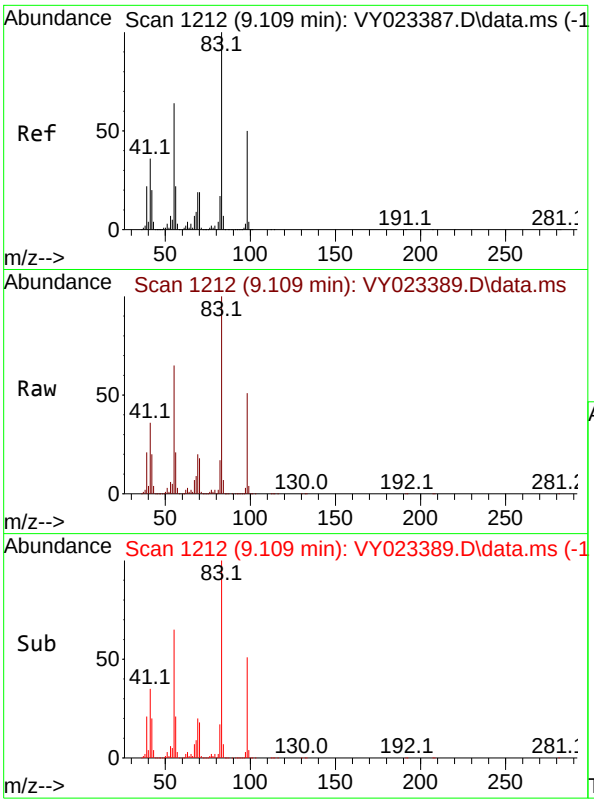


#38
Carbon Tetrachloride
Concen: 151.646 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:117 Resp: 1290353

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.8	115.2
121	31.3	24.5	36.7





#39
Methylcyclohexane
Concen: 159.580 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

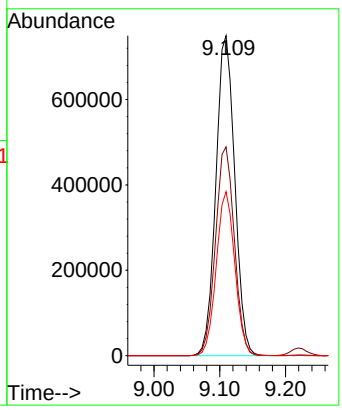
Tgt Ion: 83 Resp: 149661

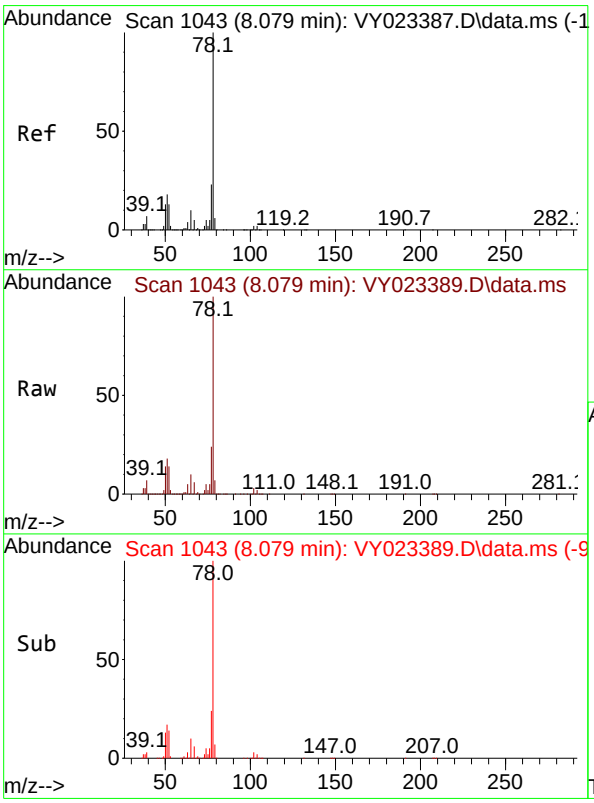
Ion	Ratio	Lower	Upper
83	100		
55	65.2	51.4	77.2
98	51.2	40.4	60.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

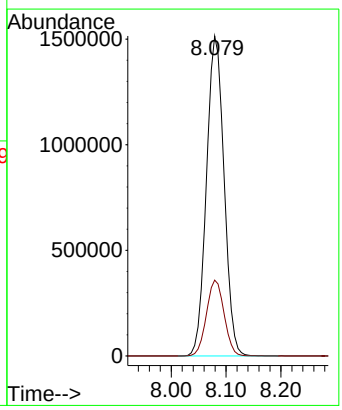


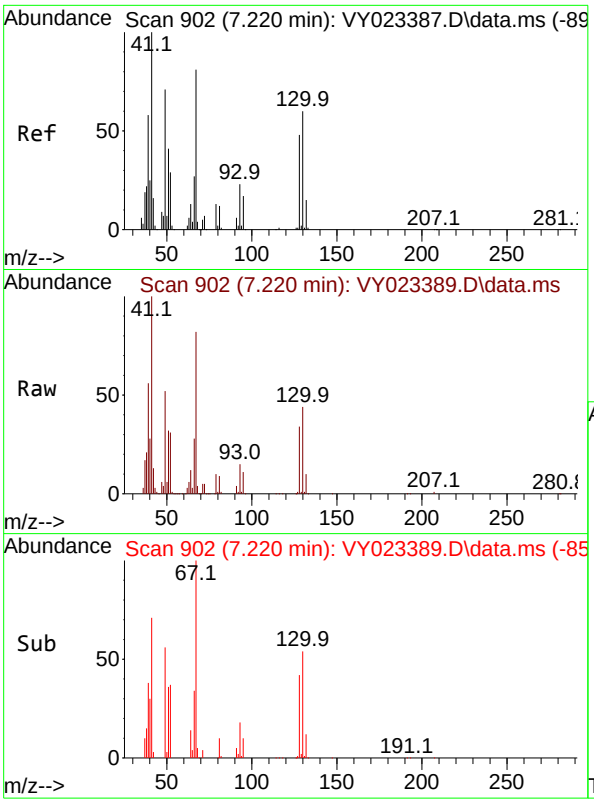


#40
Benzene
Concen: 147.442 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 78 Resp: 3366812

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.3	27.5

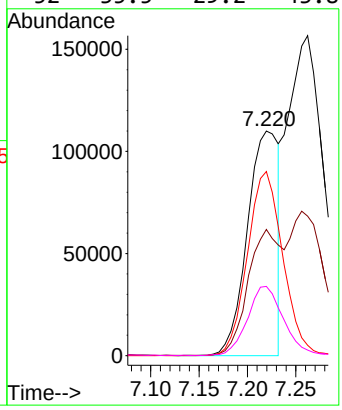




#41
Methacrylonitrile
Concen: 164.212 ug/l
RT: 7.220 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 41 Resp: 24697

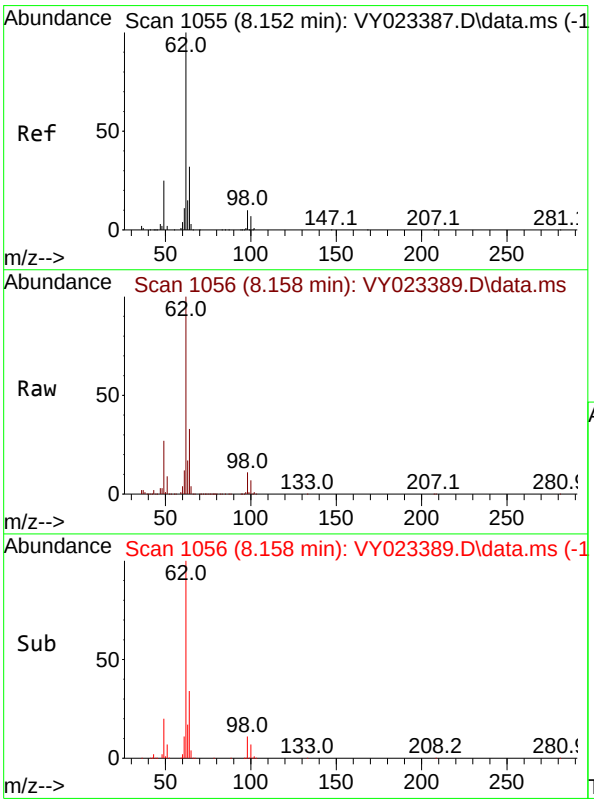
Ion	Ratio	Lower	Upper
41	100		
39	61.7	52.2	78.4
67	93.3	74.9	112.3
52	35.5	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

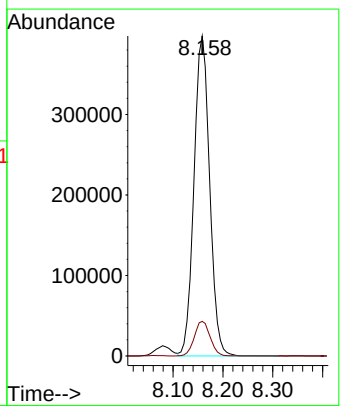
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

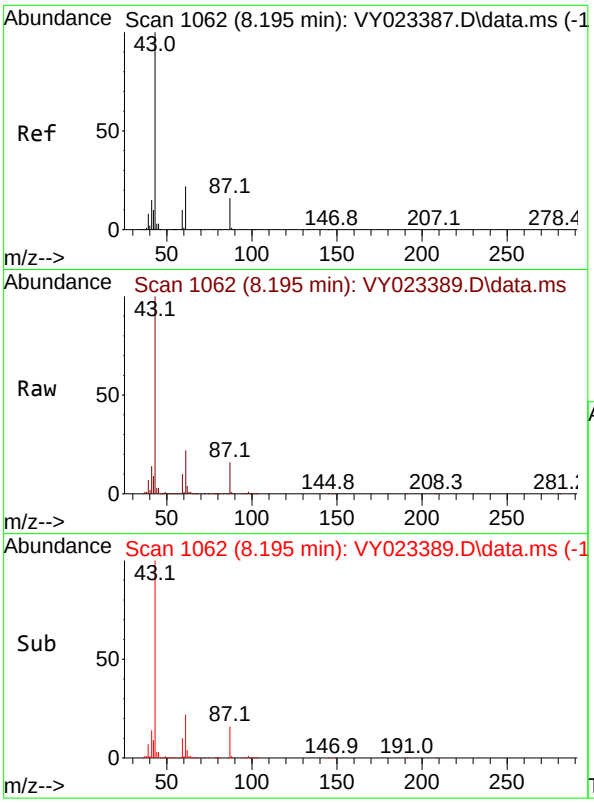


#42
1,2-Dichloroethane
Concen: 149.063 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 62 Resp: 866250

Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	21.6

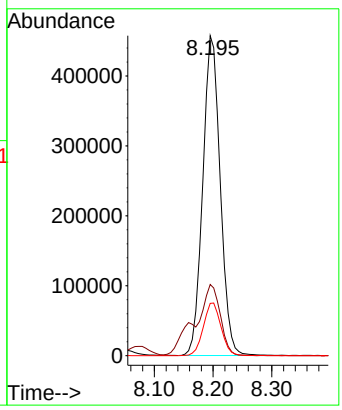




#43
Isopropyl Acetate
Concen: 167.955 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 94608

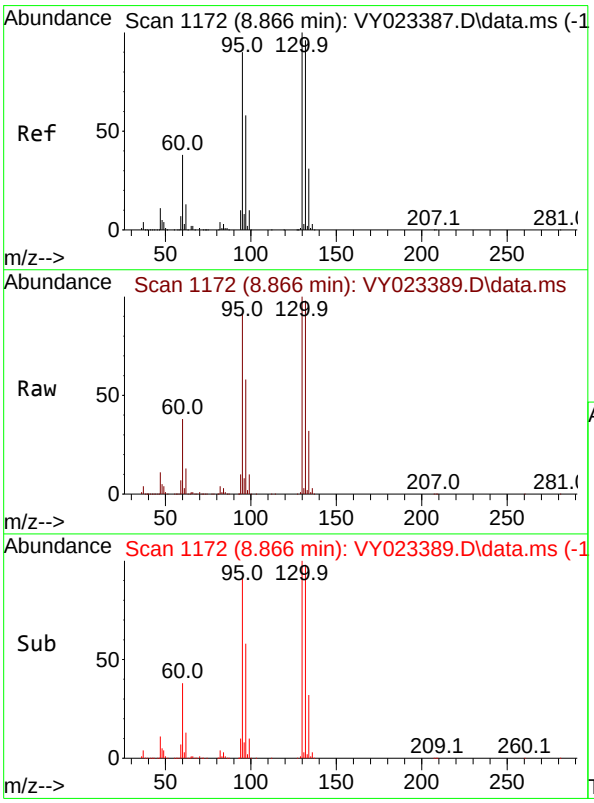
Ion	Ratio	Lower	Upper
43	100		
61	22.6	18.1	27.1
87	16.7	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

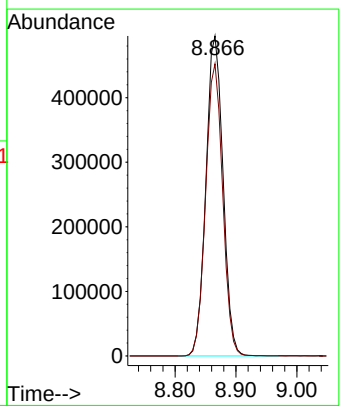
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

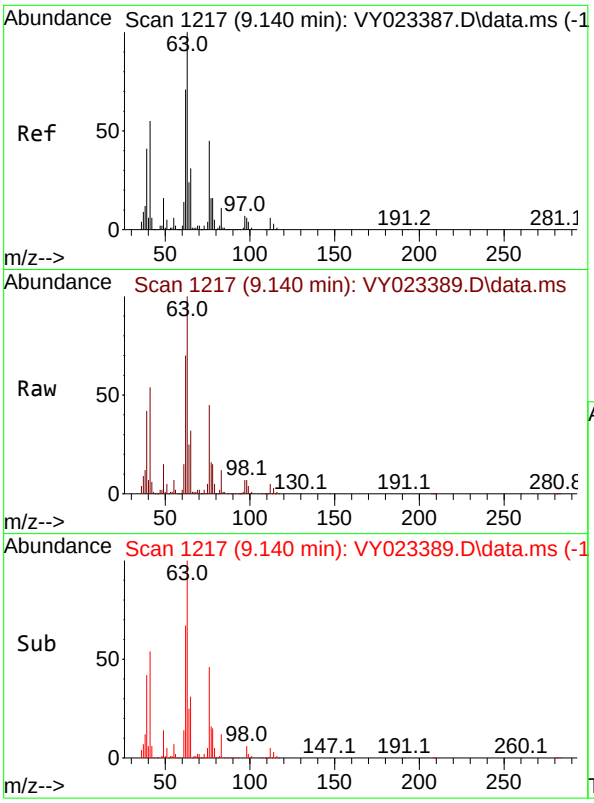


#44
Trichloroethene
Concen: 150.740 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:130 Resp: 966011

Ion	Ratio	Lower	Upper
130	100		
95	91.3	0.0	180.6

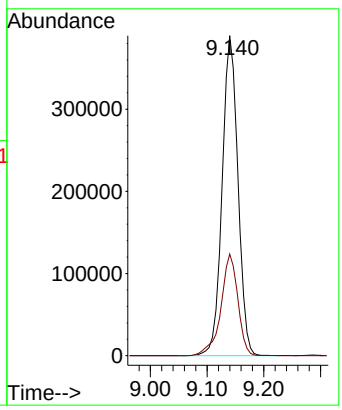




#45
1,2-Dichloropropane
Concen: 146.403 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 63 Resp: 75228

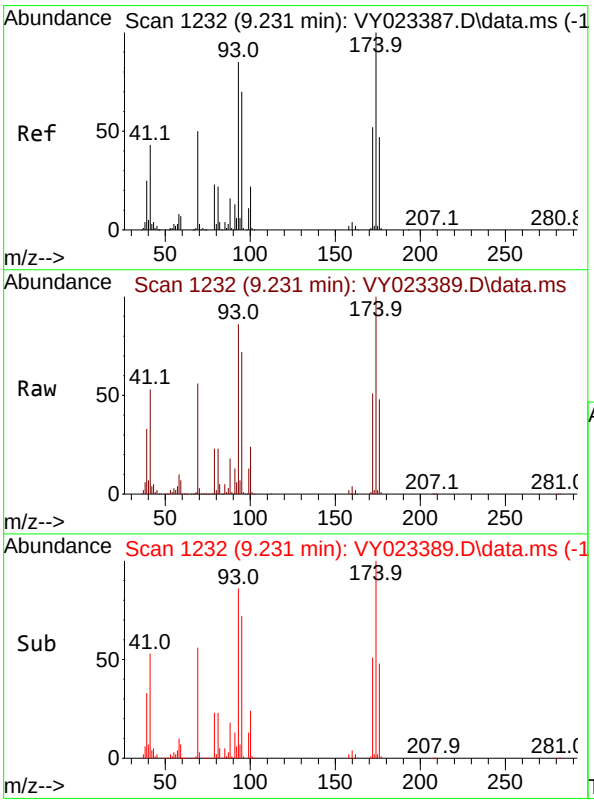
Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

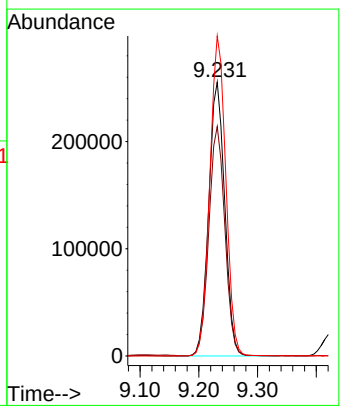
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

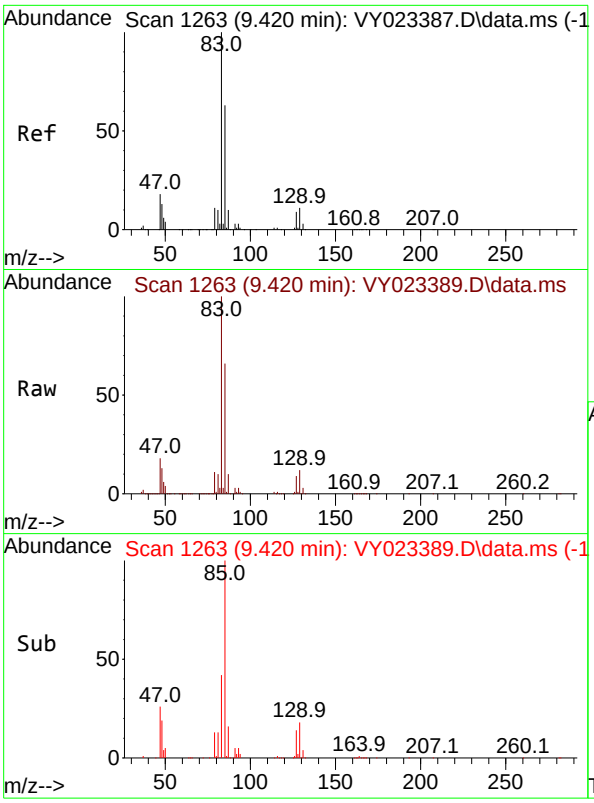


#46
Dibromomethane
Concen: 153.895 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 93 Resp: 483702

Ion	Ratio	Lower	Upper
93	100		
95	83.7	65.4	98.0
174	116.7	92.9	139.3

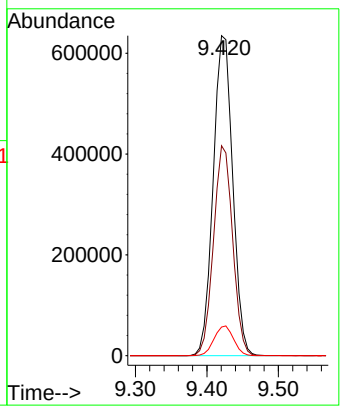




#47
Bromodichloromethane
Concen: 151.965 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 83 Resp: 120224

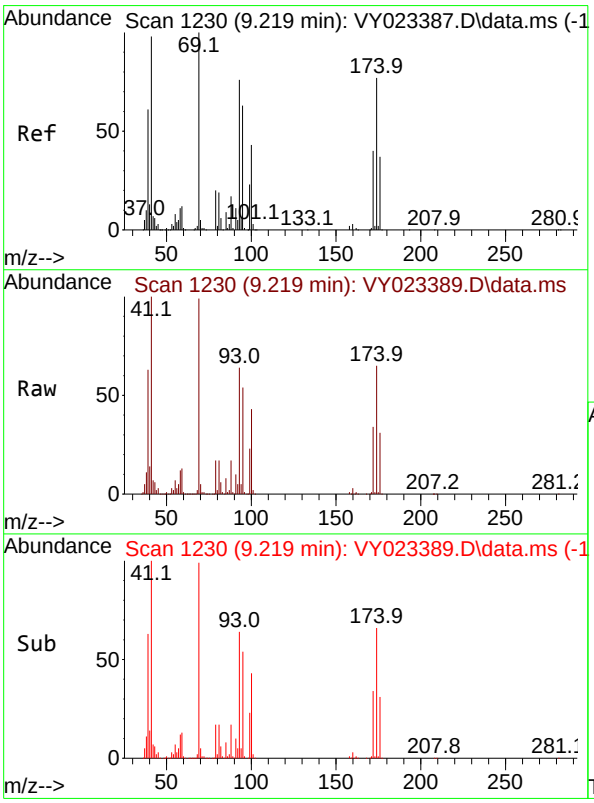
Ion	Ratio	Lower	Upper
83	100		
85	65.6	50.8	76.2
127	9.0	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

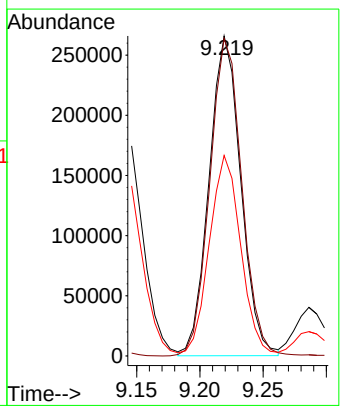
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

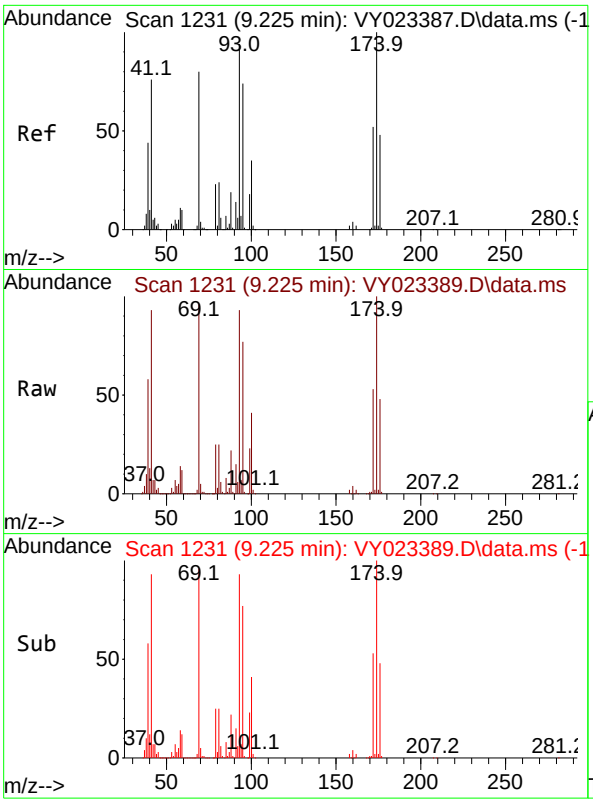


#48
Methyl methacrylate
Concen: 176.368 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 41 Resp: 463614

Ion	Ratio	Lower	Upper
41	100		
69	100.4	81.0	121.4
39	60.3	48.2	72.4

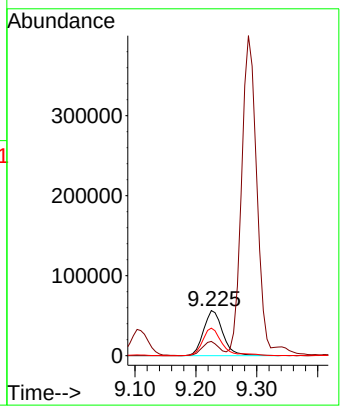




#49
1,4-Dioxane
Concen: 3809.726 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 88 Resp: 12399

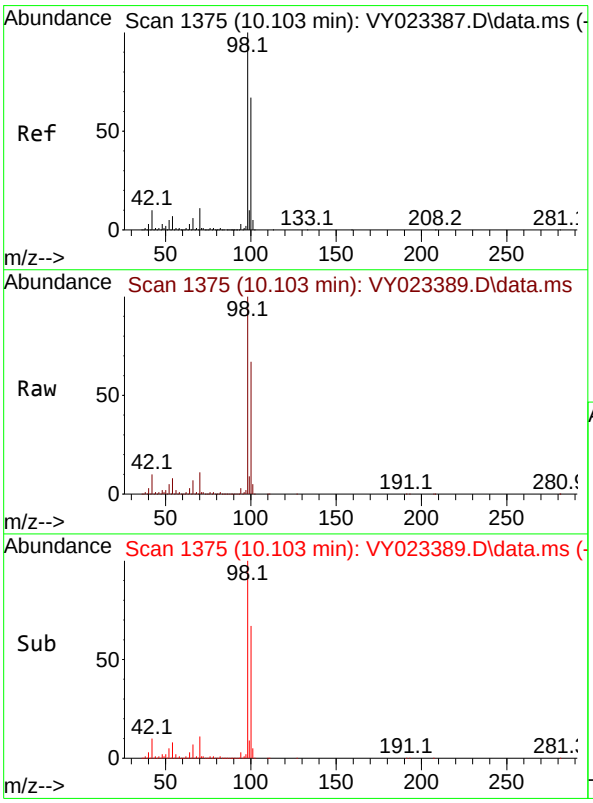
Ion	Ratio	Lower	Upper
88	100		
43	27.5	21.8	32.8
58	62.1	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

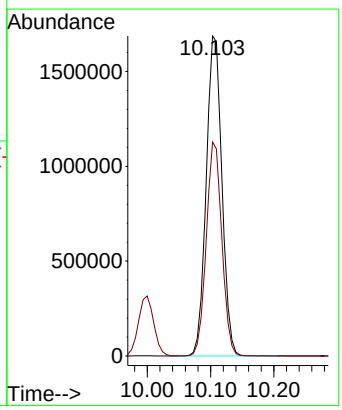
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

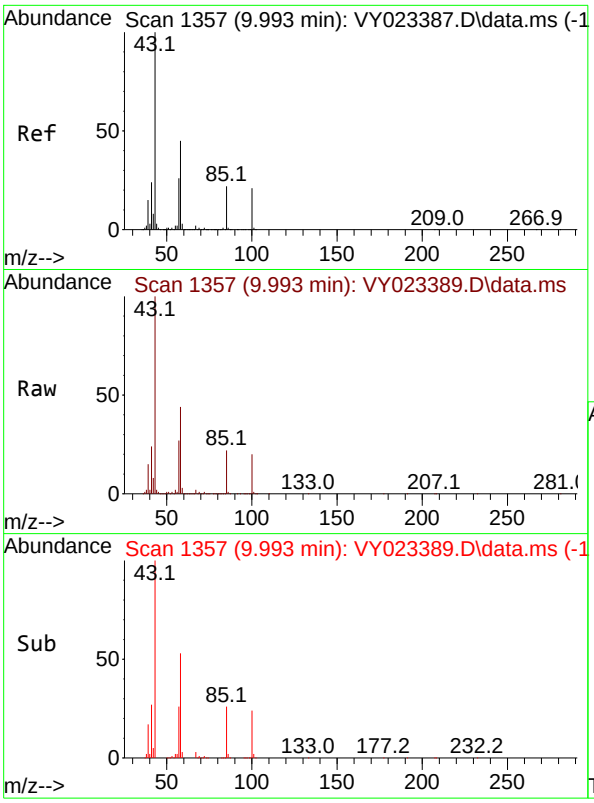


#50
Toluene-d8
Concen: 148.741 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 98 Resp: 2912319

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4

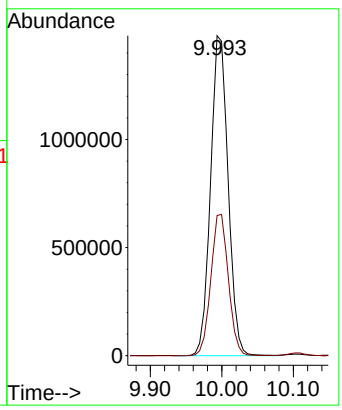




#51
4-Methyl-2-Pentanone
Concen: 872.045 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 251610

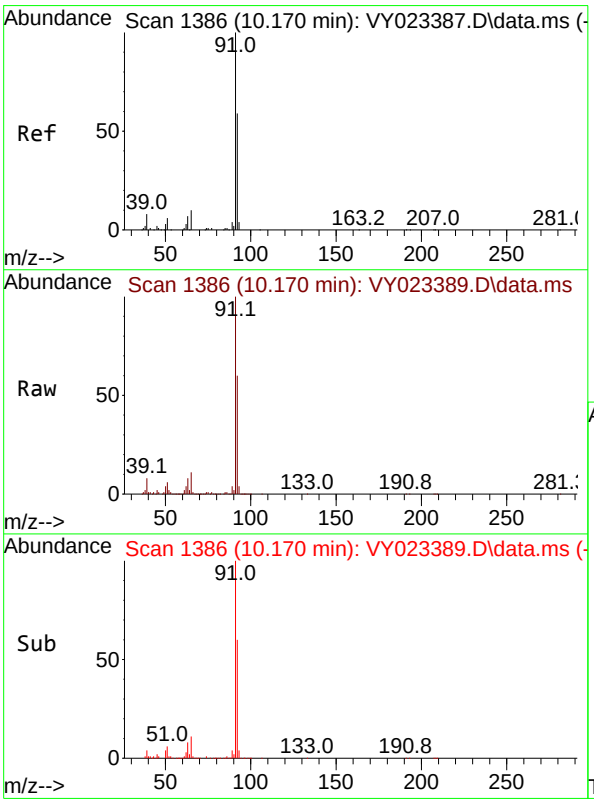
Ion	Ratio	Lower	Upper
43	100		
58	44.1	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

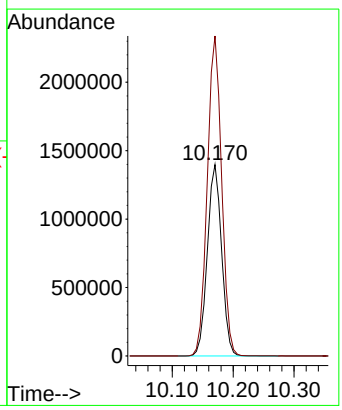
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

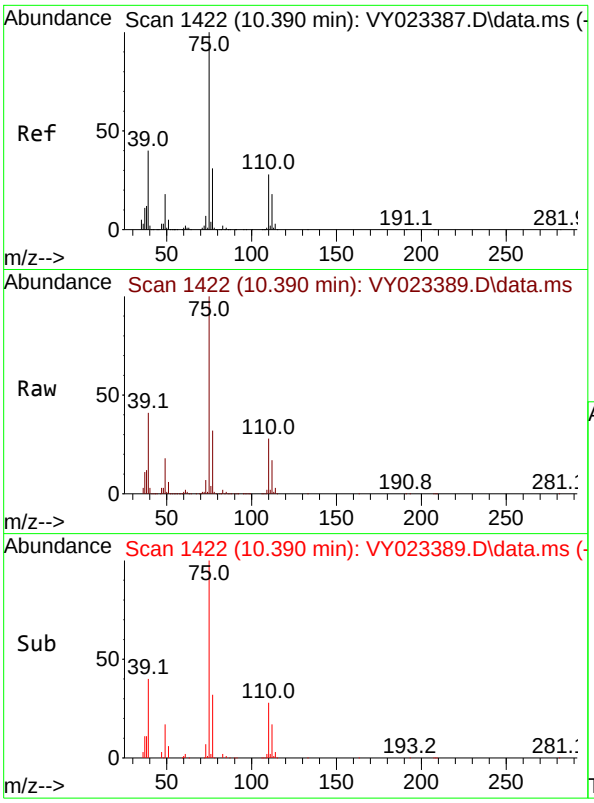


#52
Toluene
Concen: 156.786 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 92 Resp: 2272574

Ion	Ratio	Lower	Upper
92	100		
91	168.3	136.4	204.6

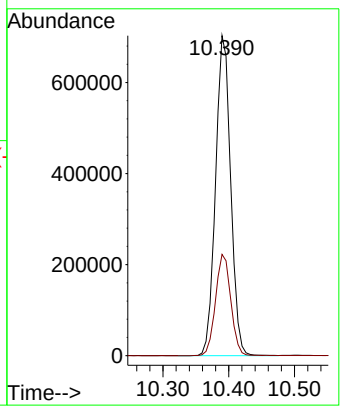




#53
t-1,3-Dichloropropene
Concen: 165.367 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 112364

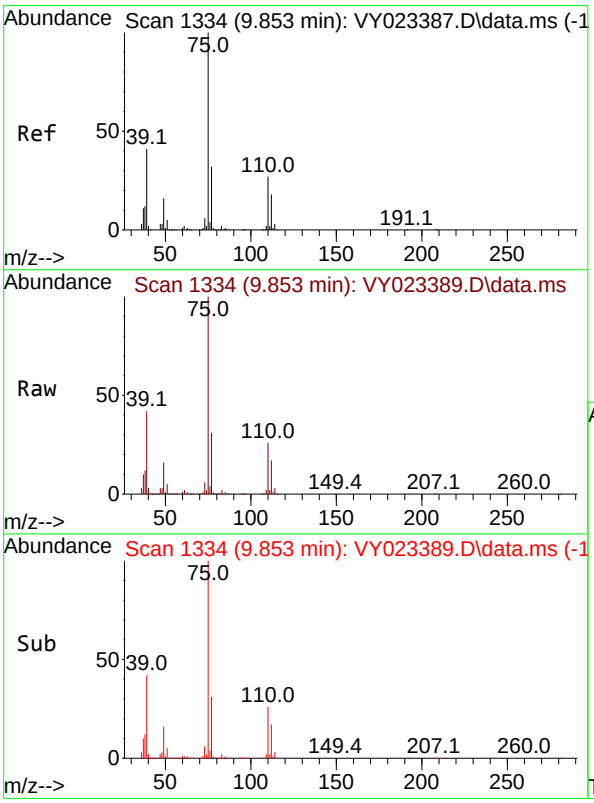
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

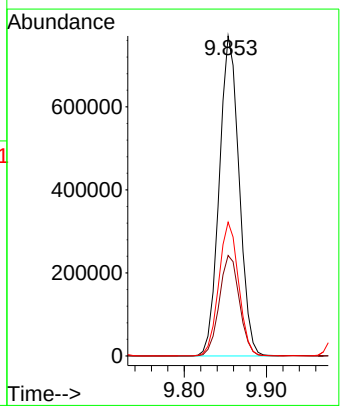
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

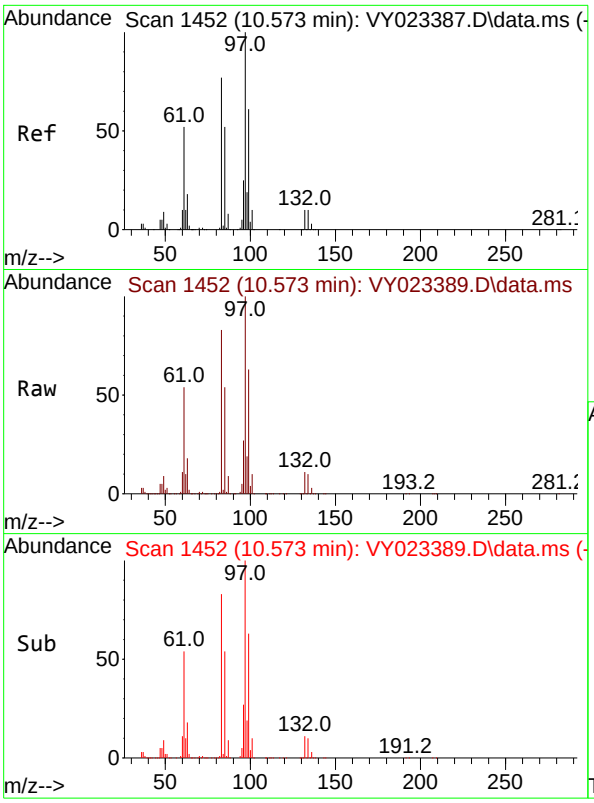


#54
cis-1,3-Dichloropropene
Concen: 159.654 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 1296713

Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.4	38.0
39	41.7	32.8	49.2

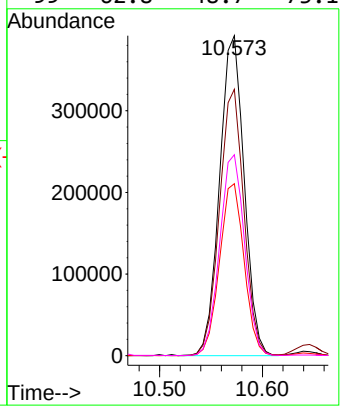




#55
1,1,2-Trichloroethane
Concen: 156.020 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 97 Resp: 65224

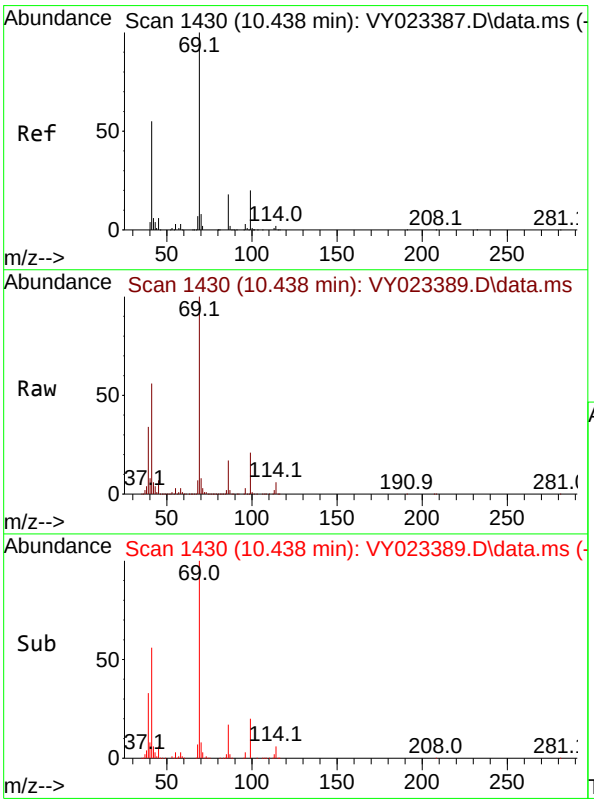
Ion	Ratio	Lower	Upper
97	100		
83	83.2	61.8	92.6
85	53.7	41.3	61.9
99	62.8	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

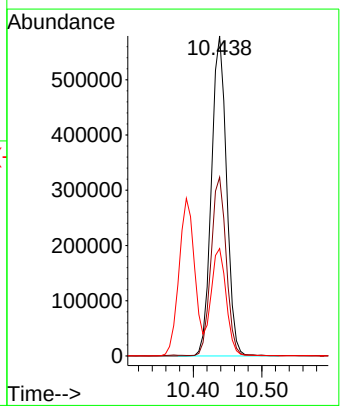
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

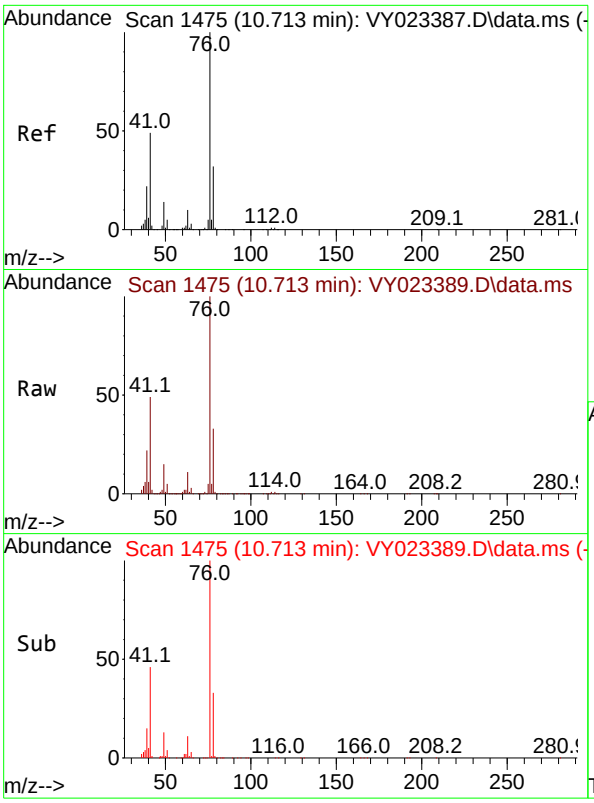


#56
Ethyl methacrylate
Concen: 184.048 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 69 Resp: 886127

Ion	Ratio	Lower	Upper
69	100		
41	56.0	44.6	67.0
39	33.6	27.0	40.4

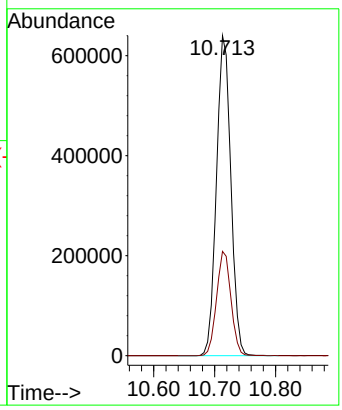




#57
1,3-Dichloropropane
Concen: 155.122 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 76 Resp: 104959

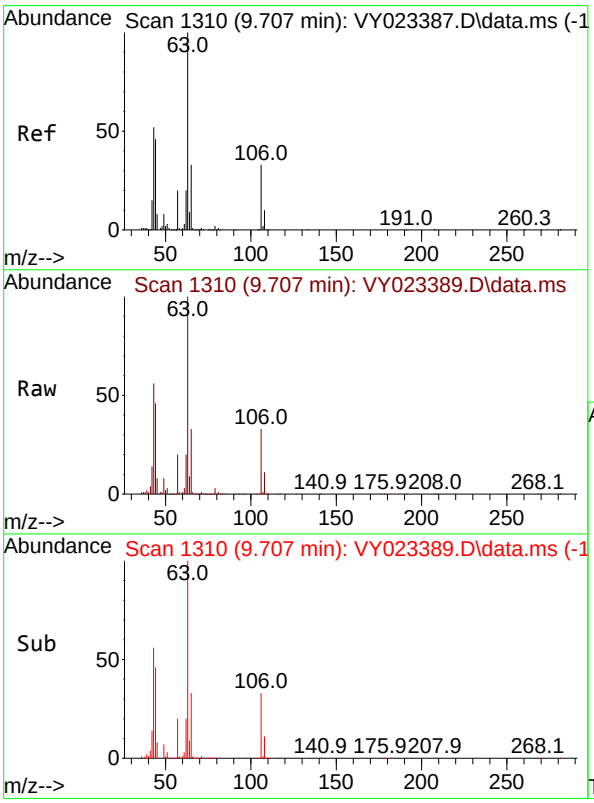
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

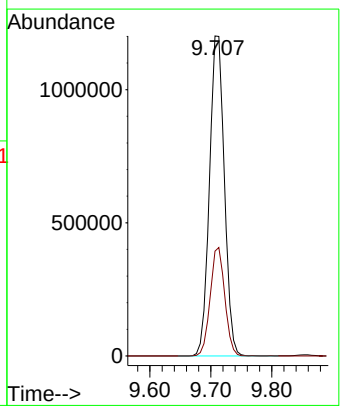
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

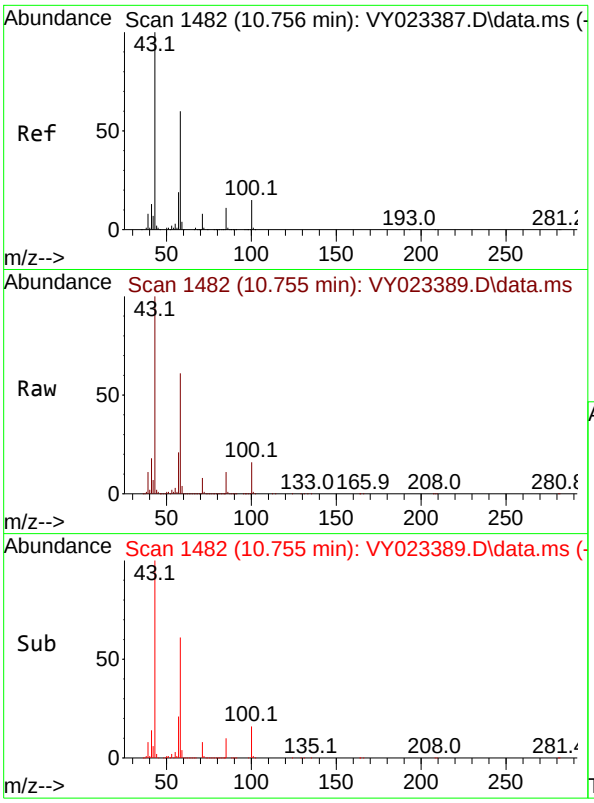


#58
2-Chloroethyl Vinyl ether
Concen: 968.559 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 63 Resp: 2040136

Ion	Ratio	Lower	Upper
63	100		
106	33.2	26.6	39.8

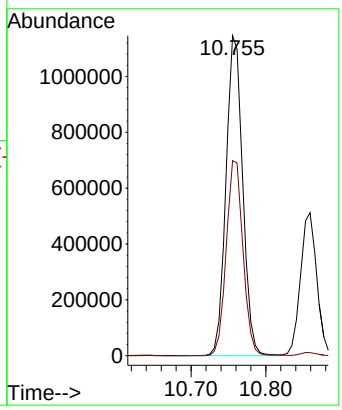




#59
2-Hexanone
Concen: 889.038 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 177603

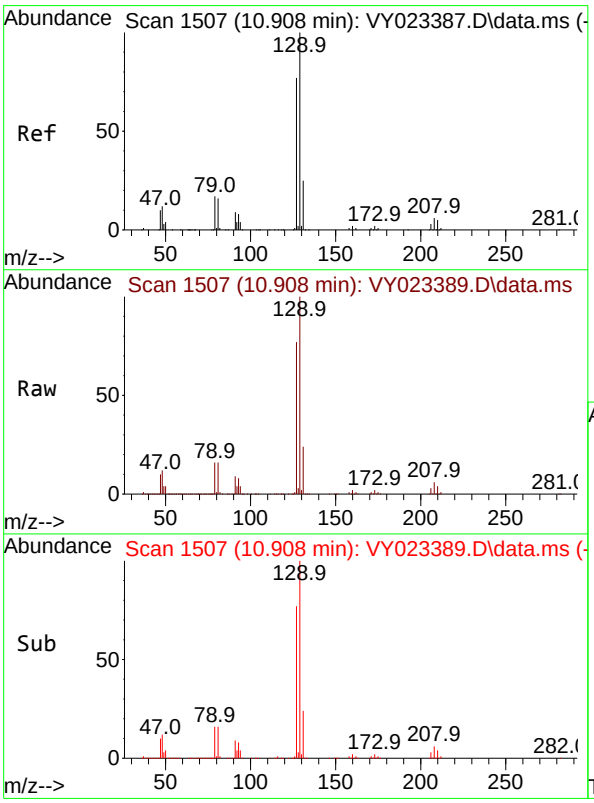
Ion	Ratio	Lower	Upper
43	100		
58	61.4	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

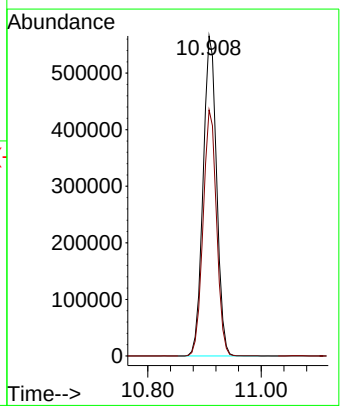
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

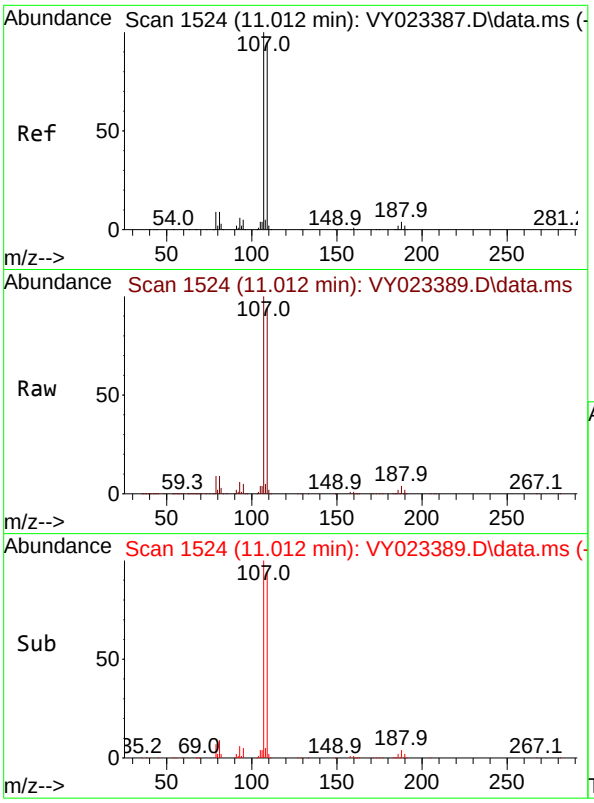


#60
Dibromochloromethane
Concen: 164.084 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:129 Resp: 935577

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.6	115.7

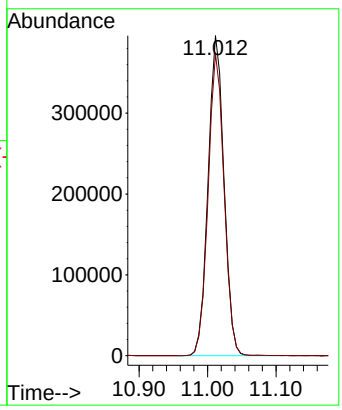




#61
1,2-Dibromoethane
Concen: 162.699 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:107 Resp: 63989

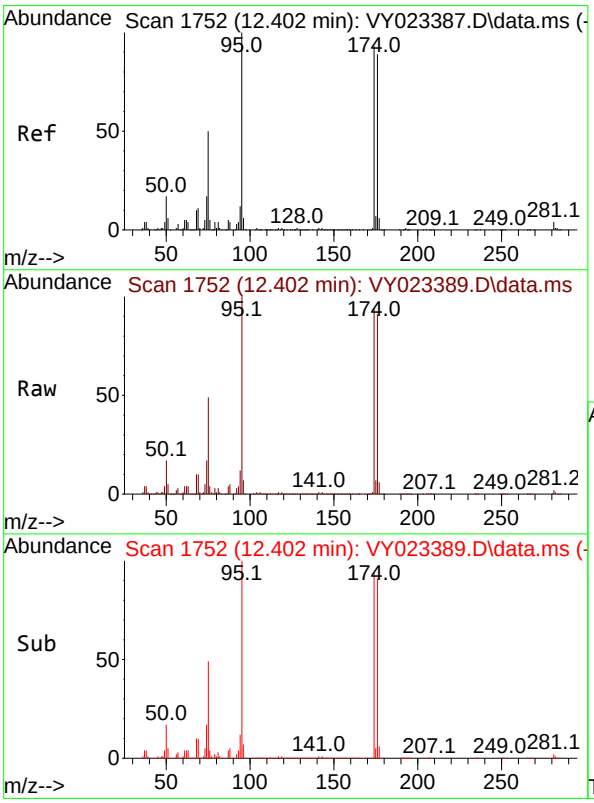
Ion	Ratio	Lower	Upper
107	100		
109	94.4	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

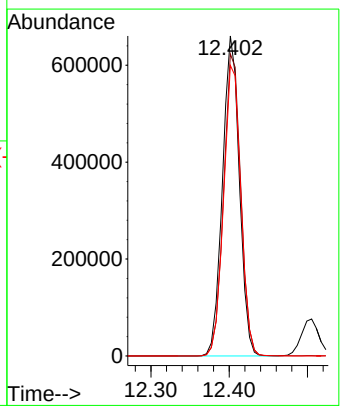
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

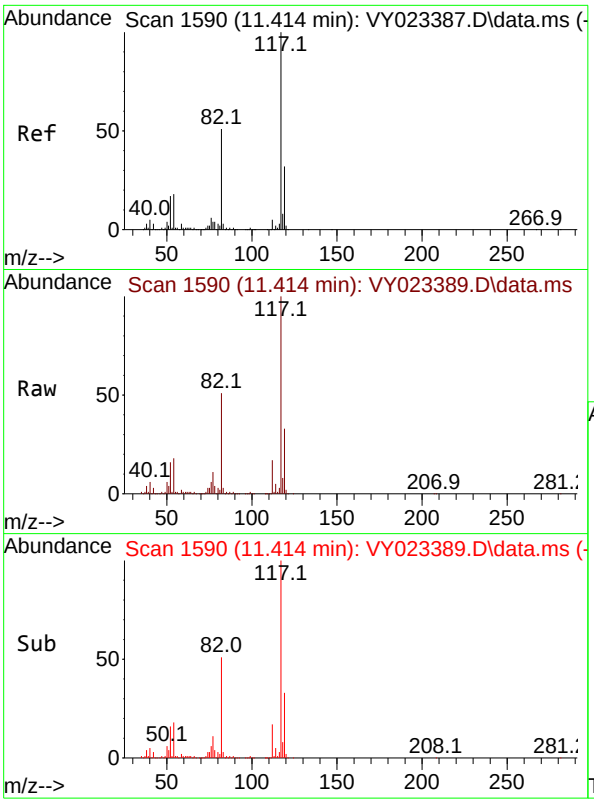


#62
4-Bromofluorobenzene
Concen: 160.423 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 95 Resp: 990964

Ion	Ratio	Lower	Upper
95	100		
174	95.8	0.0	192.8
176	92.8	0.0	187.6

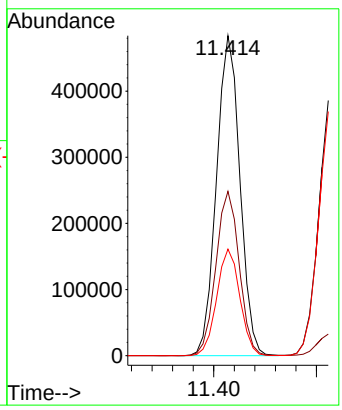




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:117 Resp: 76535

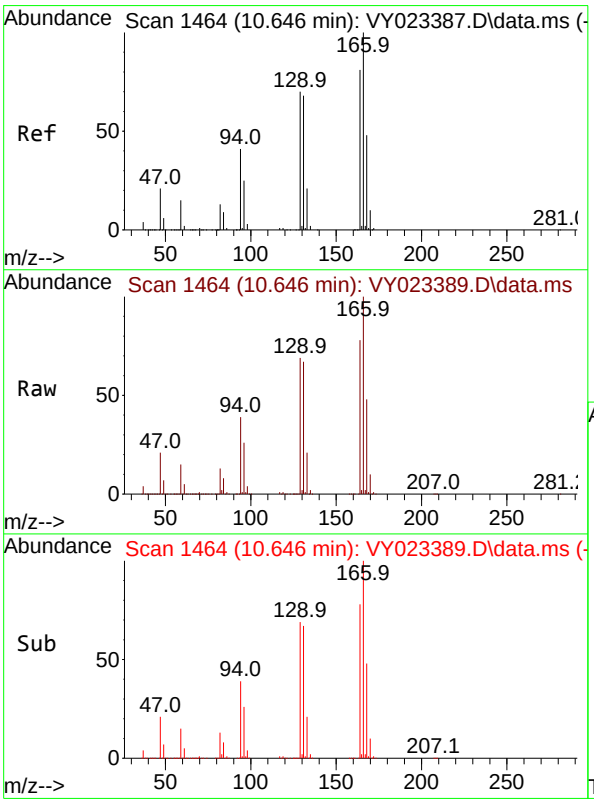
Ion	Ratio	Lower	Upper
117	100		
82	51.3	41.0	61.4
119	33.3	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

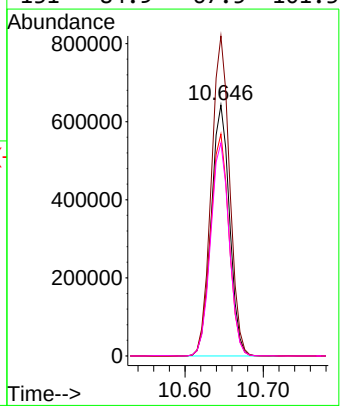
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

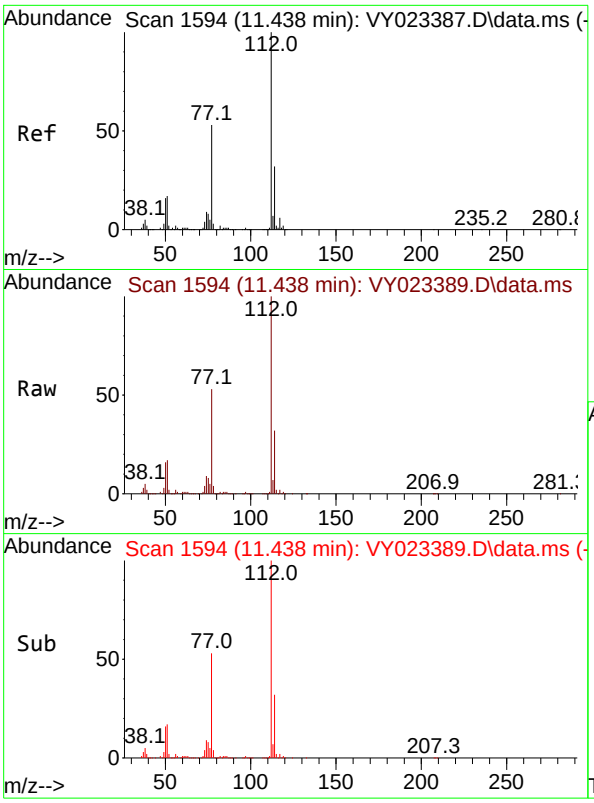


#64
Tetrachloroethene
Concen: 136.739 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:164 Resp: 1046931

Ion	Ratio	Lower	Upper
164	100		
166	127.5	99.4	149.0
129	88.4	69.4	104.2
131	84.9	67.5	101.3

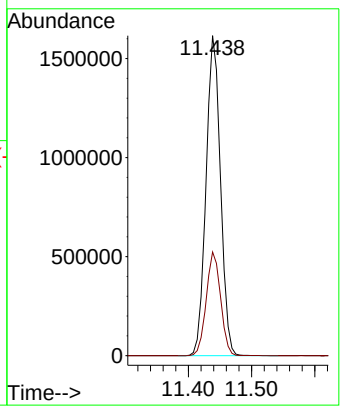




#65
Chlorobenzene
Concen: 154.117 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:112 Resp: 256317

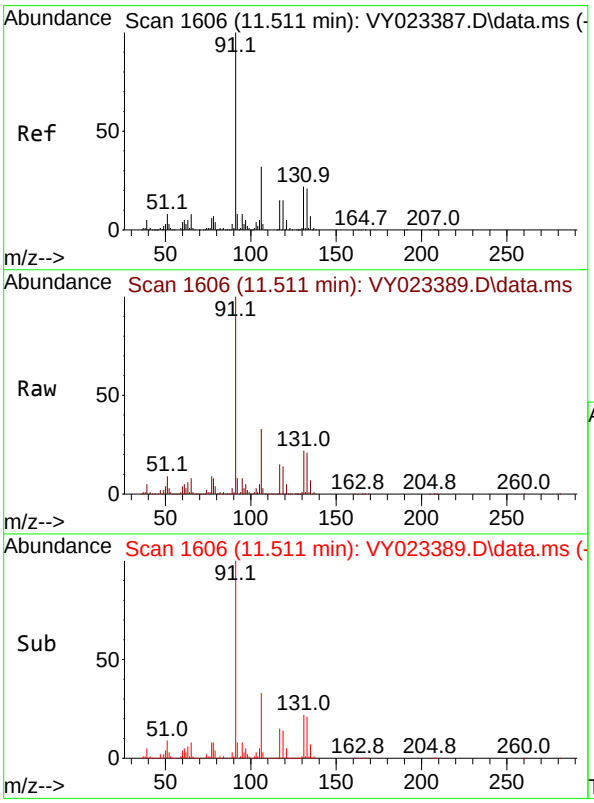
Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

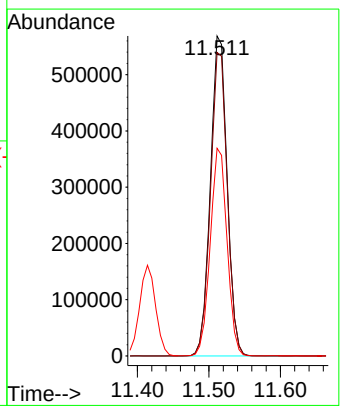
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

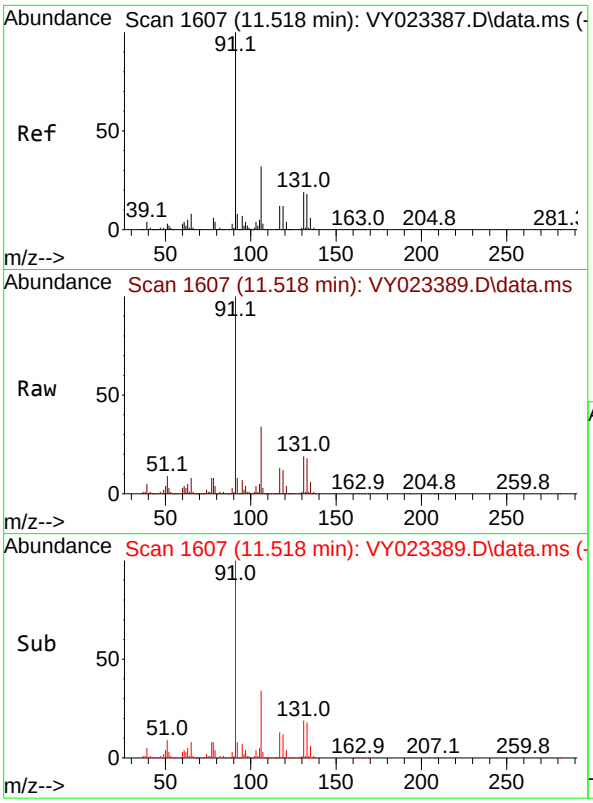


#66
1,1,1,2-Tetrachloroethane
Concen: 157.870 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:131 Resp: 923367

Ion	Ratio	Lower	Upper
131	100		
133	95.4	48.4	145.2
119	65.2	32.4	97.2





#67
Ethyl Benzene
Concen: 159.957 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

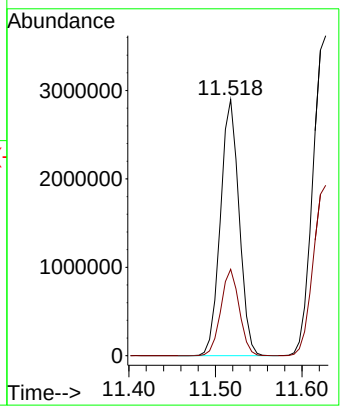
Tgt Ion: 91 Resp: 434180

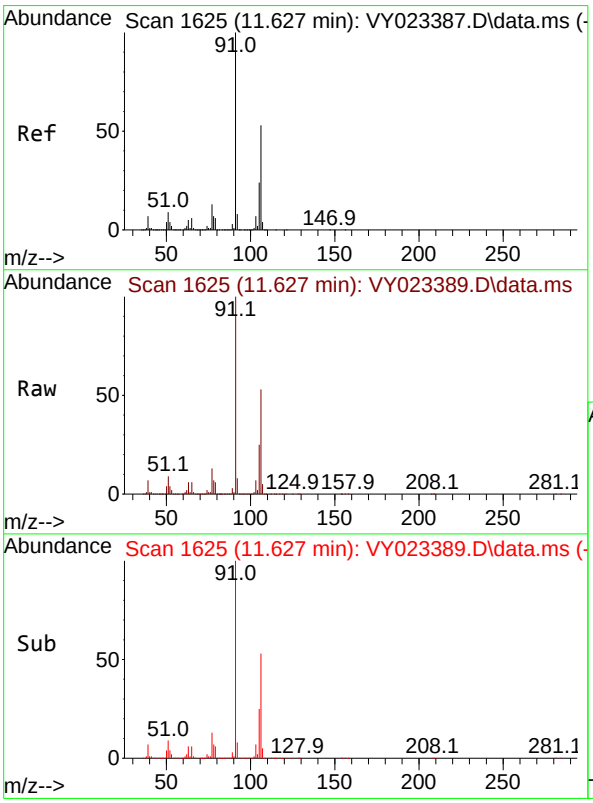
Ion	Ratio	Lower	Upper
91	100		
106	33.8	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

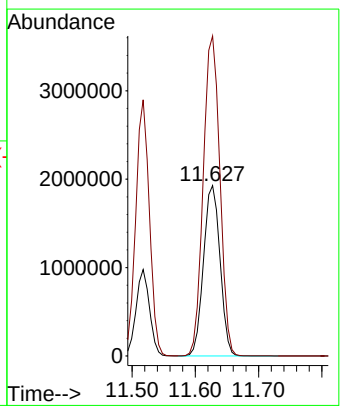


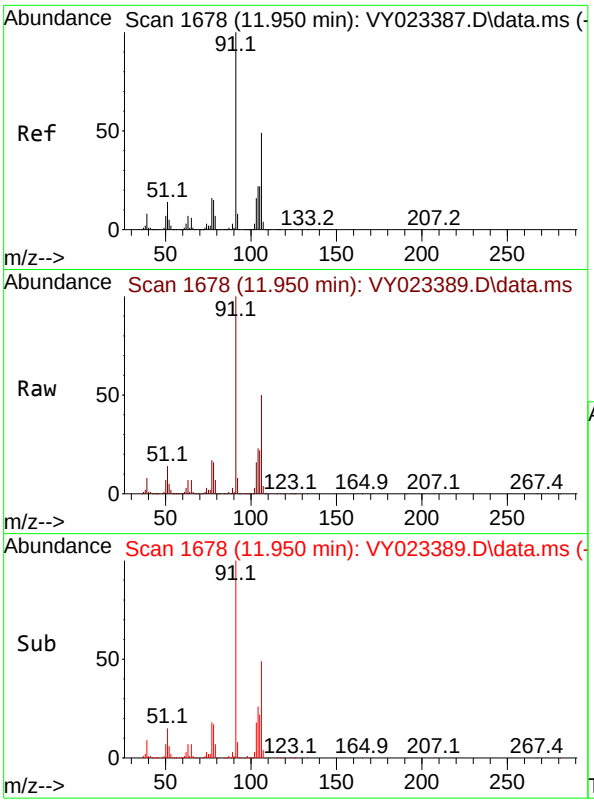


#68
m/p-Xylenes
Concen: 321.899 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:106 Resp: 3502137

Ion	Ratio	Lower	Upper
106	100		
91	189.2	152.6	229.0

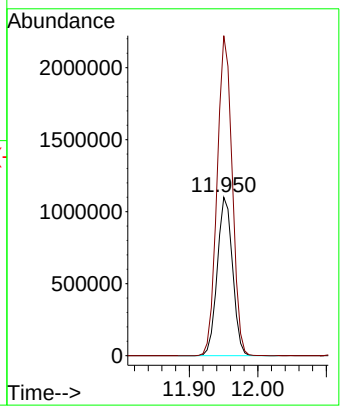




#69
o-Xylene
Concen: 168.295 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:106 Resp: 169498

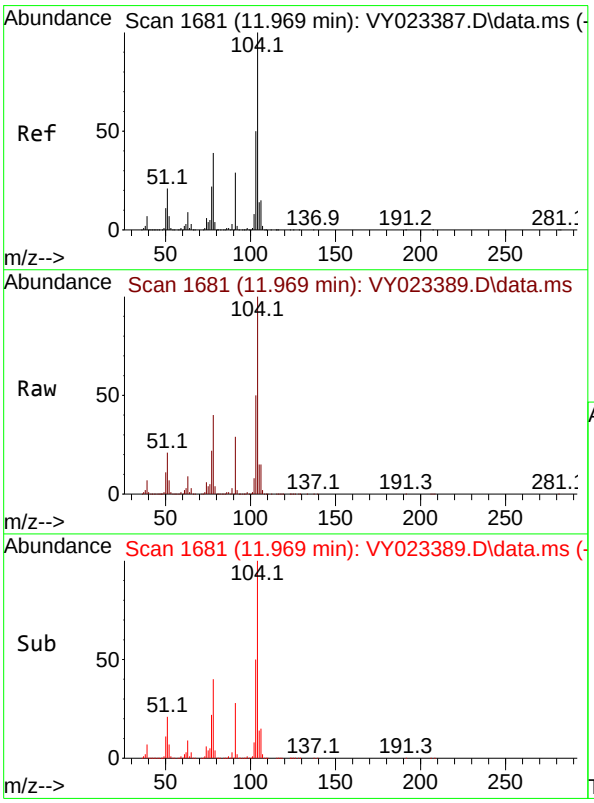
Ion	Ratio	Lower	Upper
106	100		
91	200.0	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

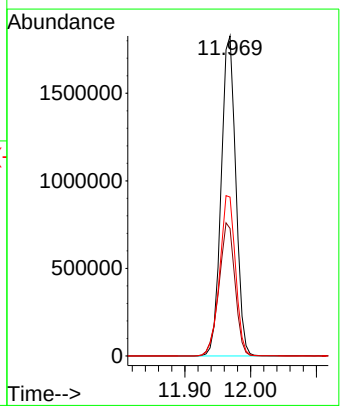
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

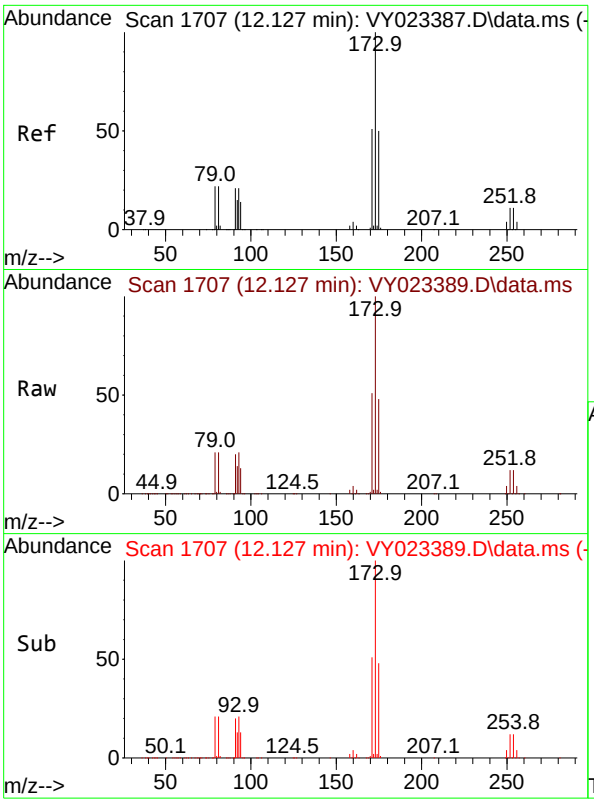


#70
Styrene
Concen: 170.203 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:104 Resp: 2830398

Ion	Ratio	Lower	Upper
104	100		
78	45.5	36.1	54.1
103	54.3	43.2	64.8

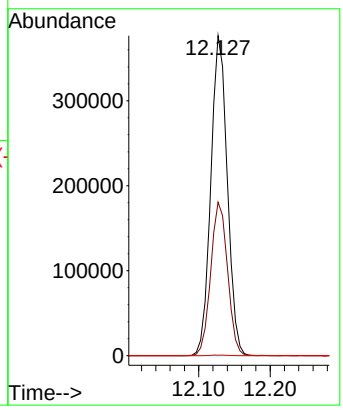




#71
Bromoform
Concen: 172.115 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:173 Resp: 60264

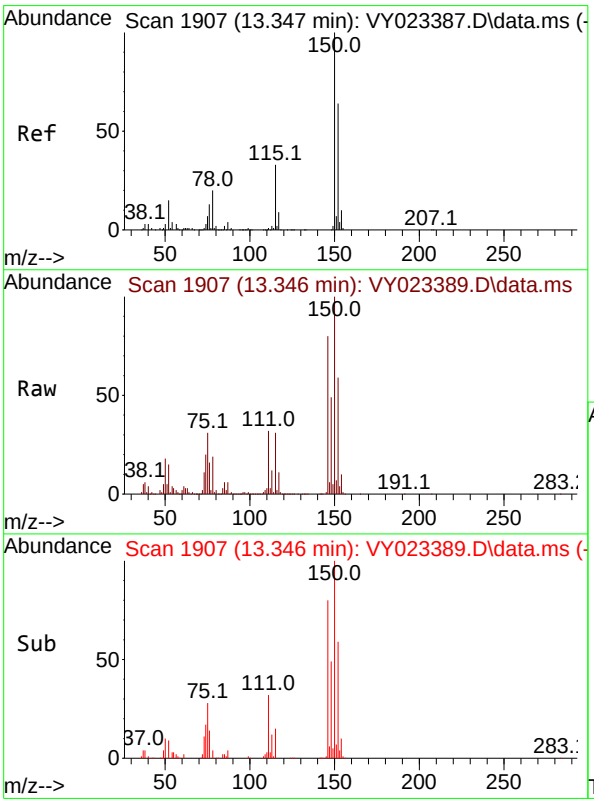
Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.8	74.3
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

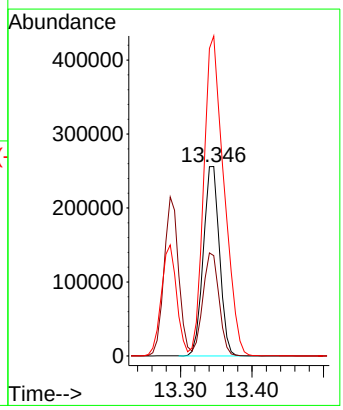
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

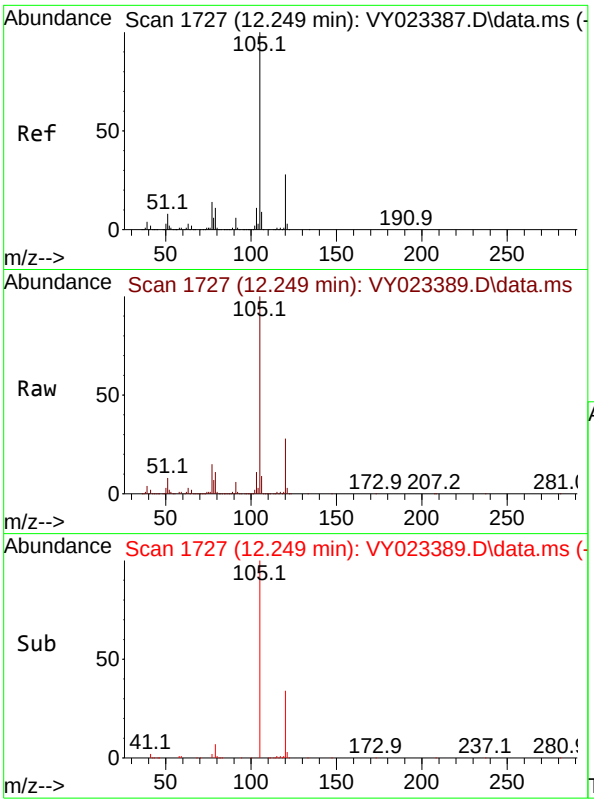


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:152 Resp: 402368

Ion	Ratio	Lower	Upper
152	100		
115	54.1	27.1	81.2
150	210.4	0.0	347.4

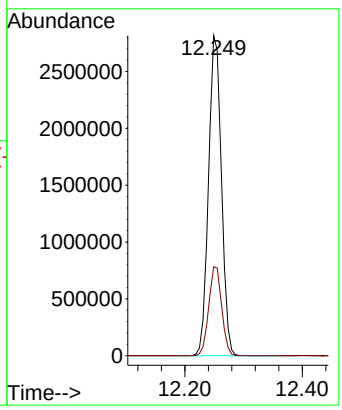




#73
Isopropylbenzene
Concen: 160.084 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:105 Resp: 429066

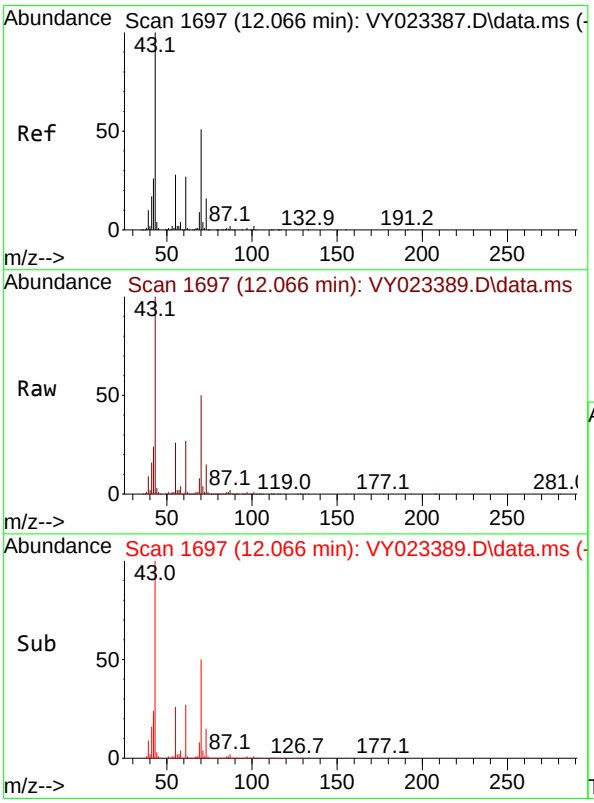
Ion	Ratio	Lower	Upper
105	100		
120	27.9	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

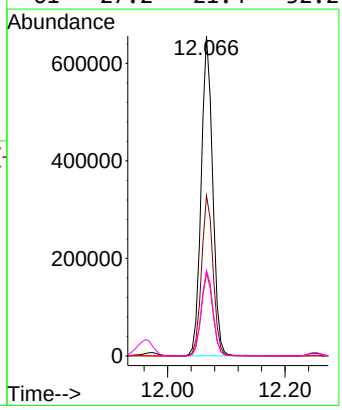
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

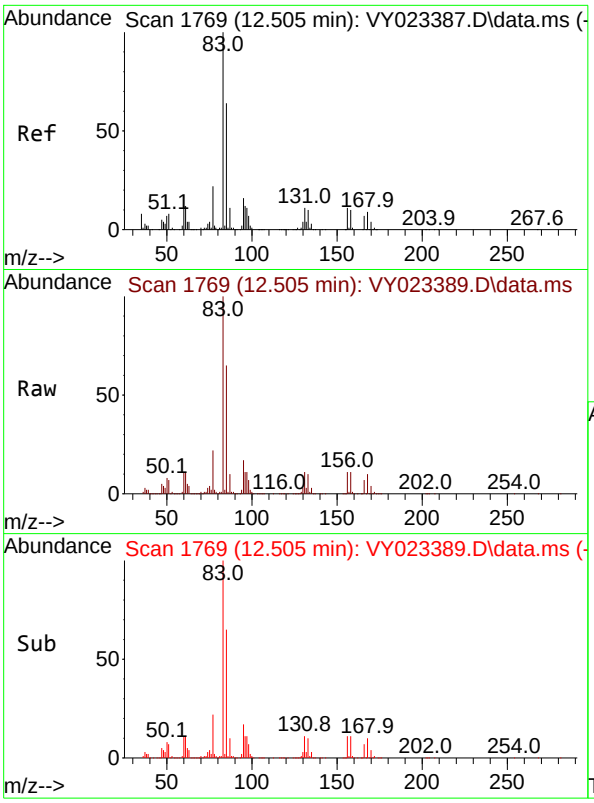


#74
N-amyl acetate
Concen: 177.866 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 890882

Ion	Ratio	Lower	Upper
43	100		
70	50.6	41.1	61.7
55	26.4	23.0	34.6
61	27.2	21.4	32.2

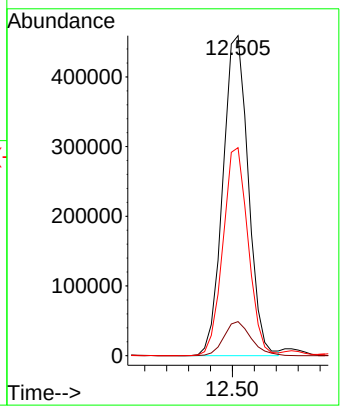




#75
1,1,2,2-Tetrachloroethane
Concen: 165.010 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 83 Resp: 73777

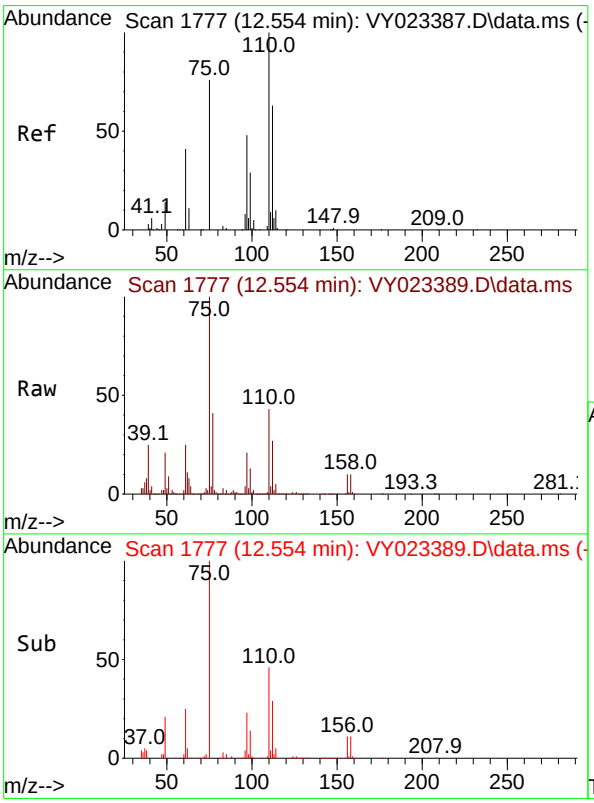
Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.9	17.6
85	64.4	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

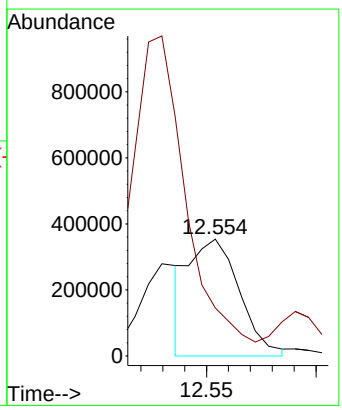
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

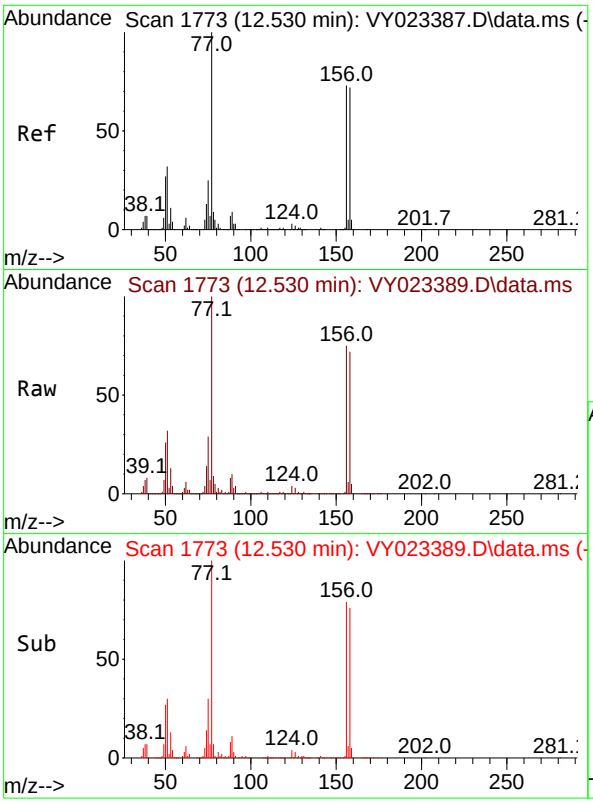


#76
1,2,3-Trichloropropane
Concen: 142.542 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 565754

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

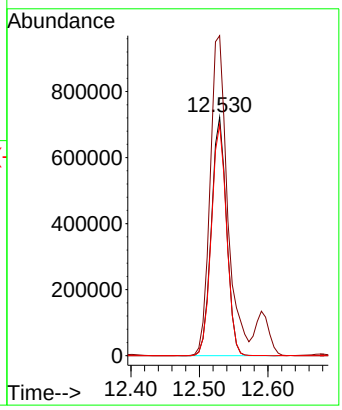




#77
Bromobenzene
Concen: 161.555 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:156 Resp: 111131

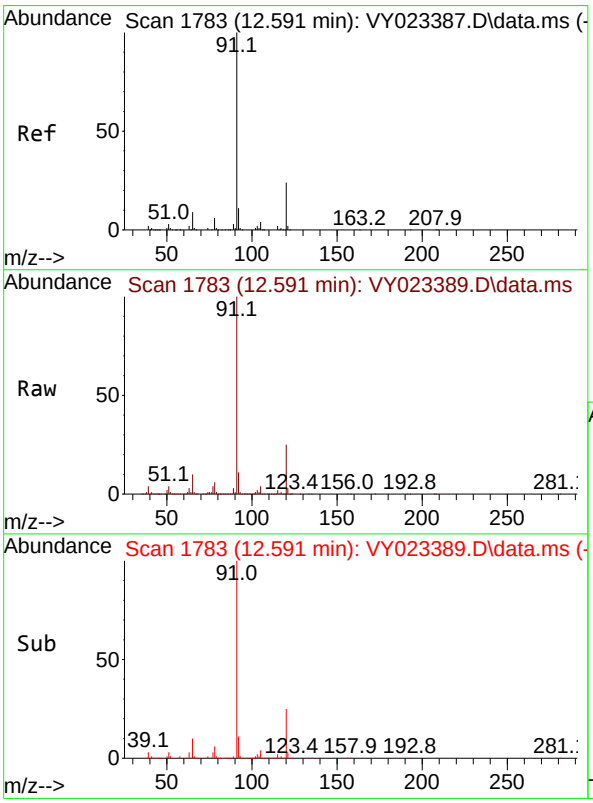
Ion	Ratio	Lower	Upper
156	100		
77	153.9	76.8	230.5
158	97.4	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

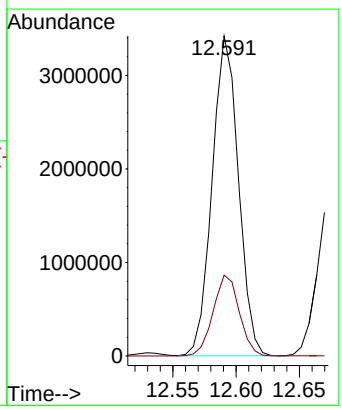
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

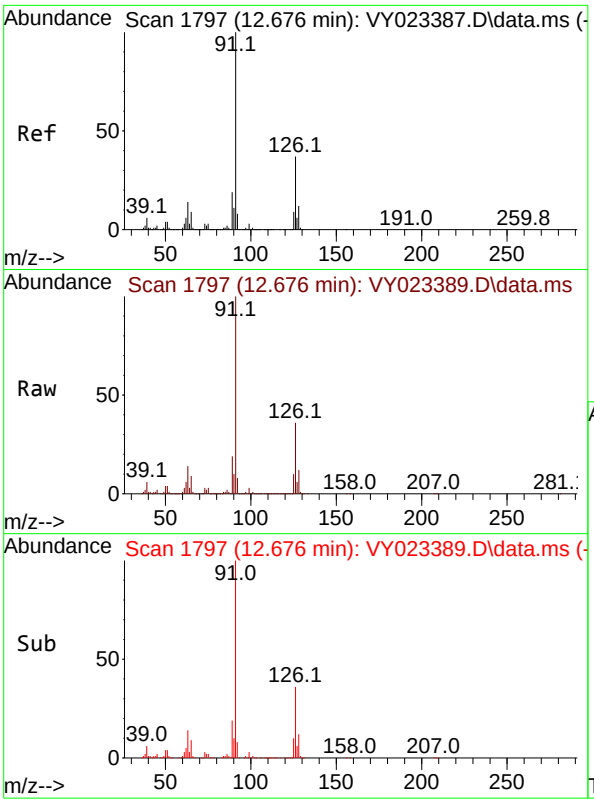


#78
n-propylbenzene
Concen: 156.465 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 91 Resp: 4932015

Ion	Ratio	Lower	Upper
91	100		
120	25.1	12.3	36.8

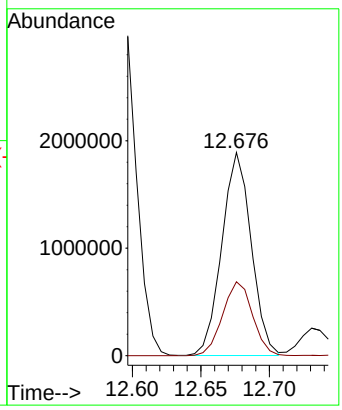




#79
2-Chlorotoluene
Concen: 155.063 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 91 Resp: 282204

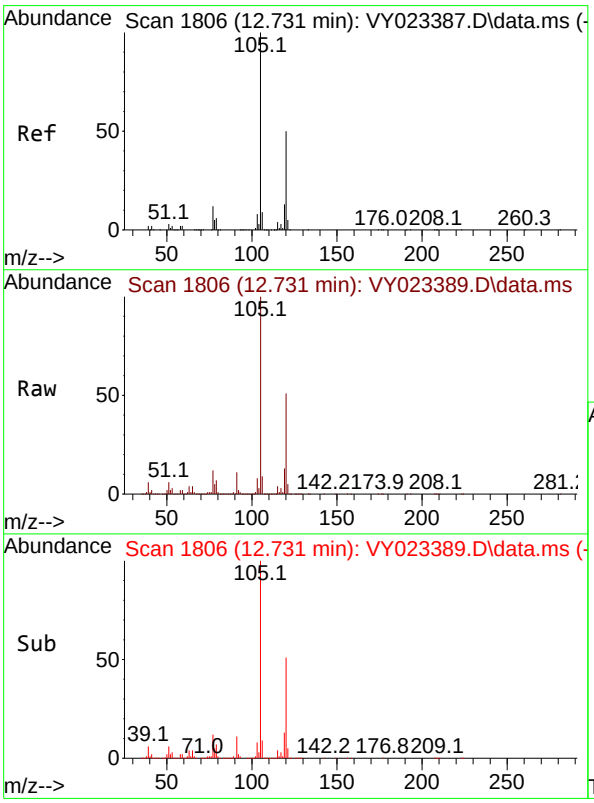
Ion	Ratio	Lower	Upper
91	100		
126	37.1	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

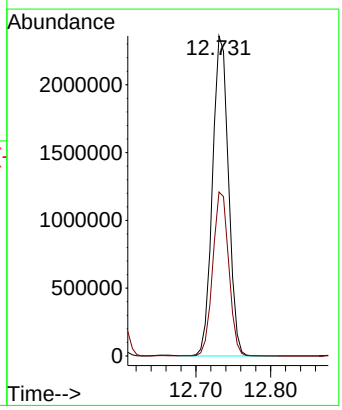
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

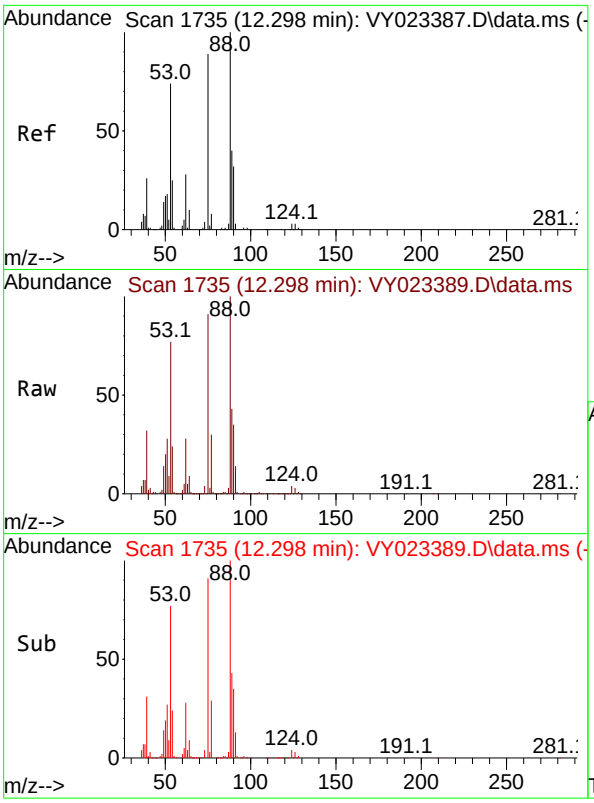


#80
1,3,5-Trimethylbenzene
Concen: 160.460 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:105 Resp: 3496249

Ion	Ratio	Lower	Upper
105	100		
120	51.4	25.4	76.4

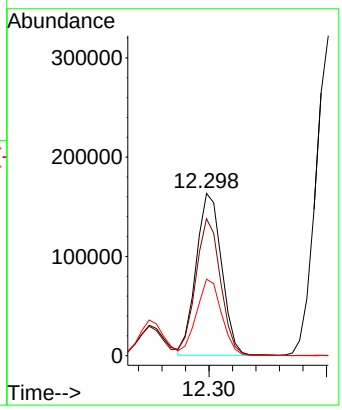




#81
trans-1,4-Dichloro-2-butene
Concen: 166.570 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 24519

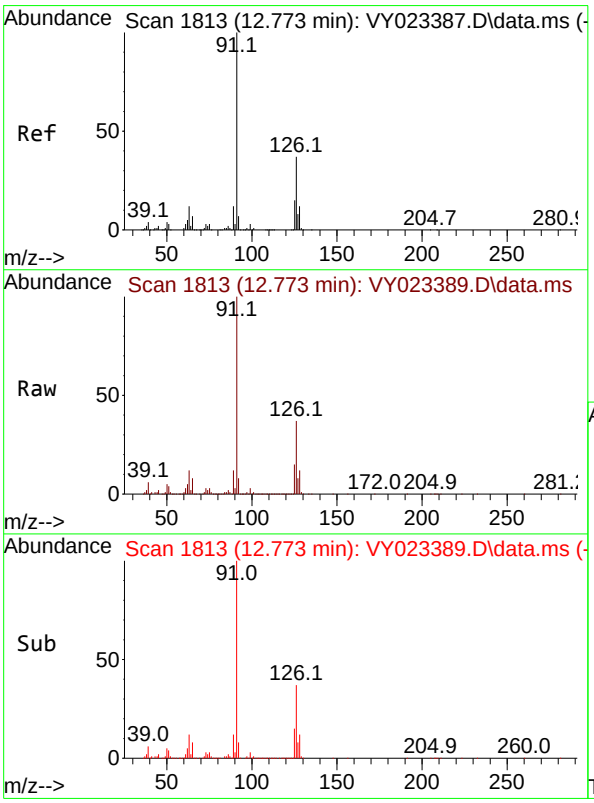
Ion	Ratio	Lower	Upper
75	100		
53	83.6	68.6	102.8
89	46.8	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

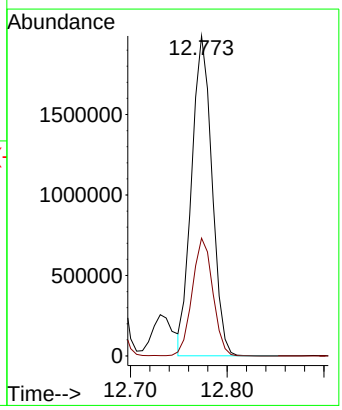
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

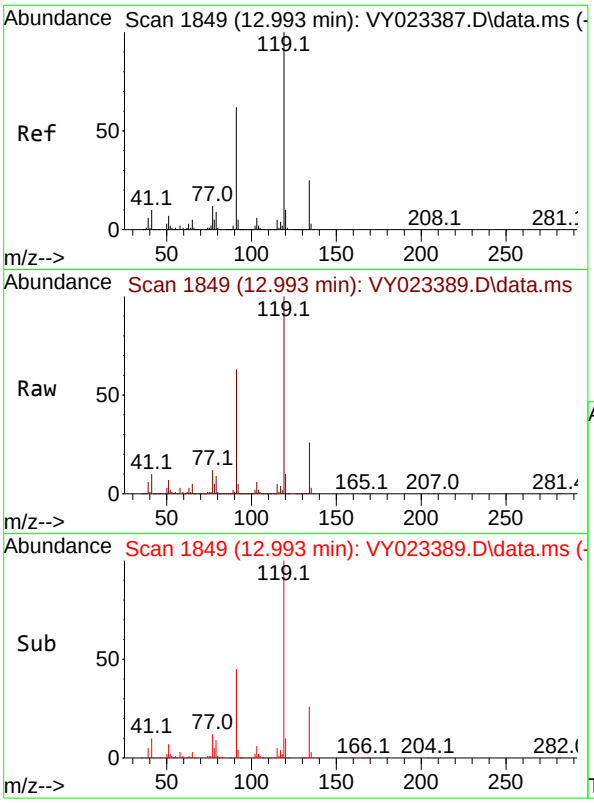


#82
4-Chlorotoluene
Concen: 152.701 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 91 Resp: 2902371

Ion	Ratio	Lower	Upper
91	100		
126	37.3	18.4	55.4

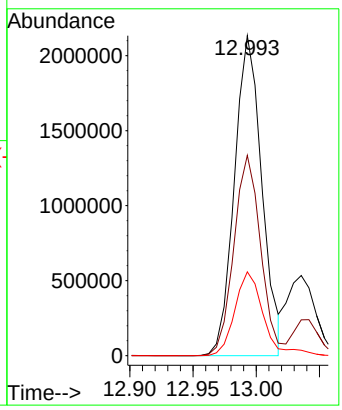




#83
tert-Butylbenzene
Concen: 162.197 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:119 Resp: 322038

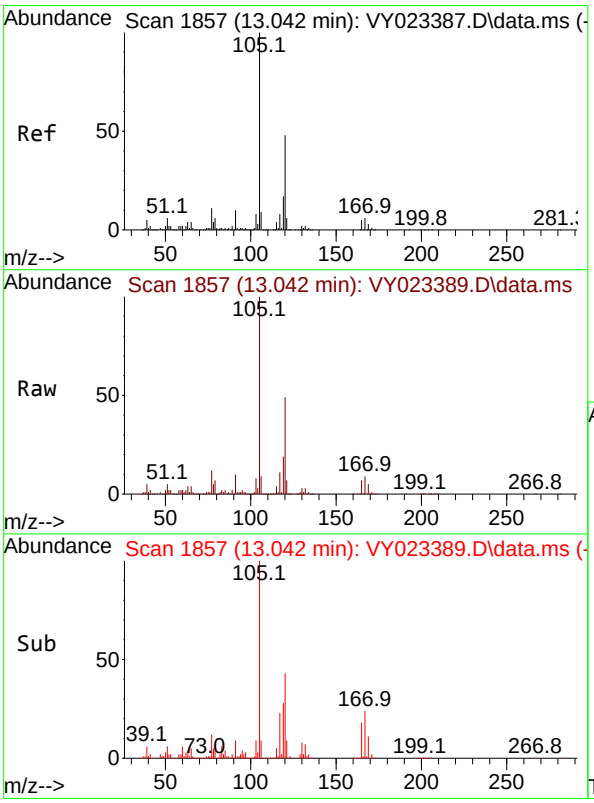
Ion	Ratio	Lower	Upper
119	100		
91	61.6	29.9	89.8
134	27.4	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

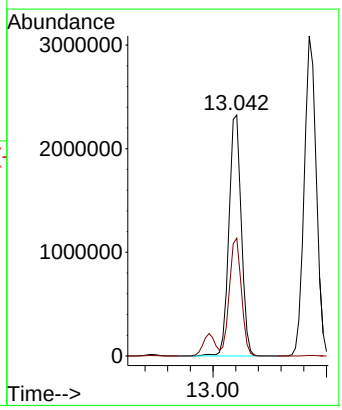
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

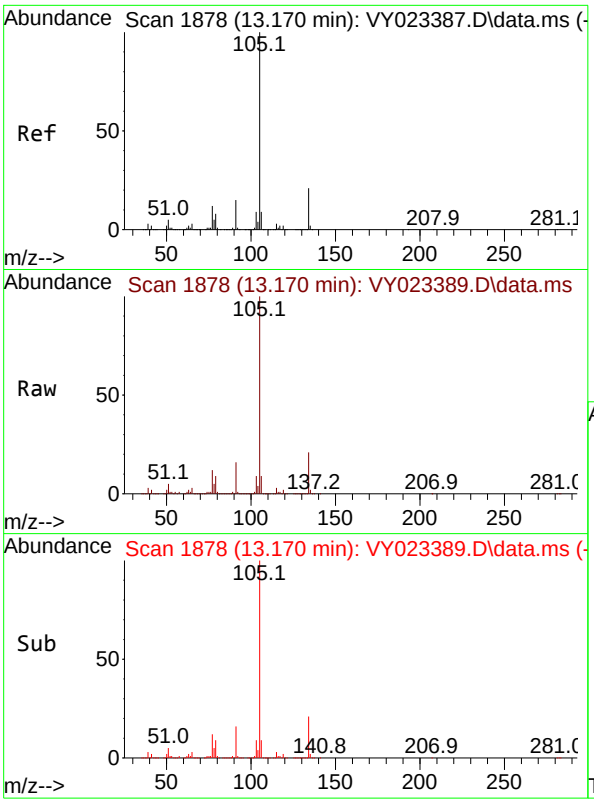


#84
1,2,4-Trimethylbenzene
Concen: 162.527 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:105 Resp: 3503639

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.8	71.2

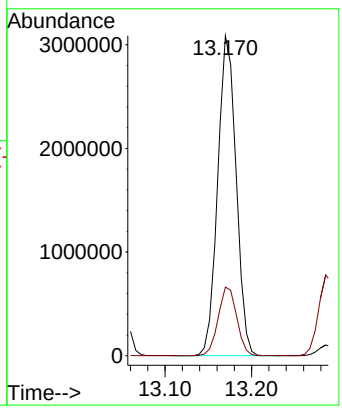




#85
sec-Butylbenzene
Concen: 158.609 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:105 Resp: 456071

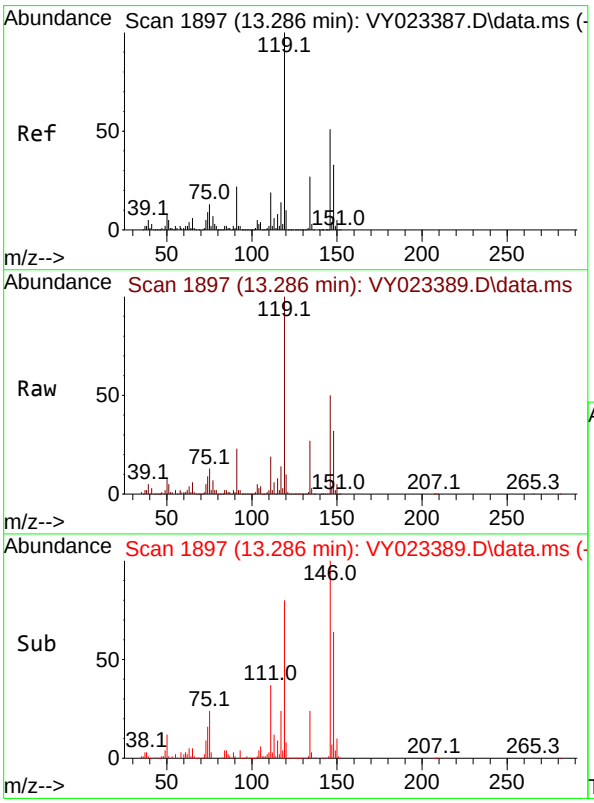
Ion	Ratio	Lower	Upper
105	100		
134	21.6	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

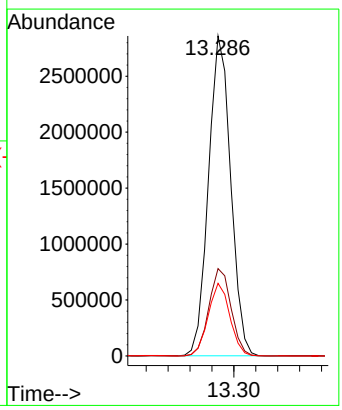
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

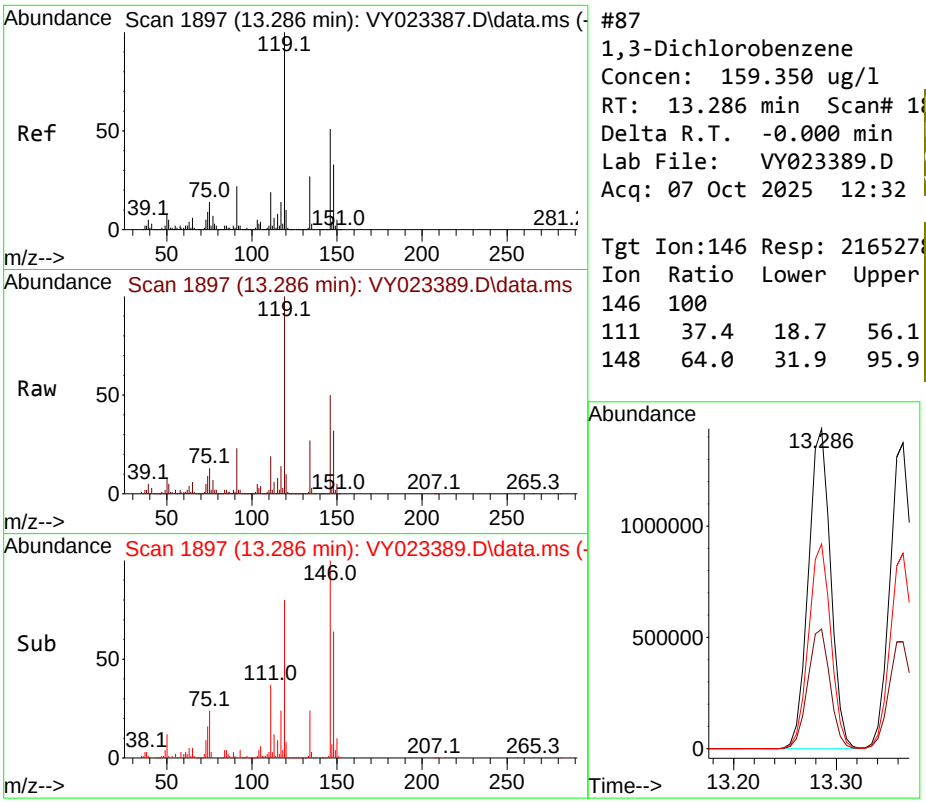


#86
p-Isopropyltoluene
Concen: 165.622 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:119 Resp: 4024712

Ion	Ratio	Lower	Upper
119	100		
134	27.4	13.6	40.7
91	22.1	10.9	32.9





#87
1,3-Dichlorobenzene
Concen: 159.350 ug/l
RT: 13.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

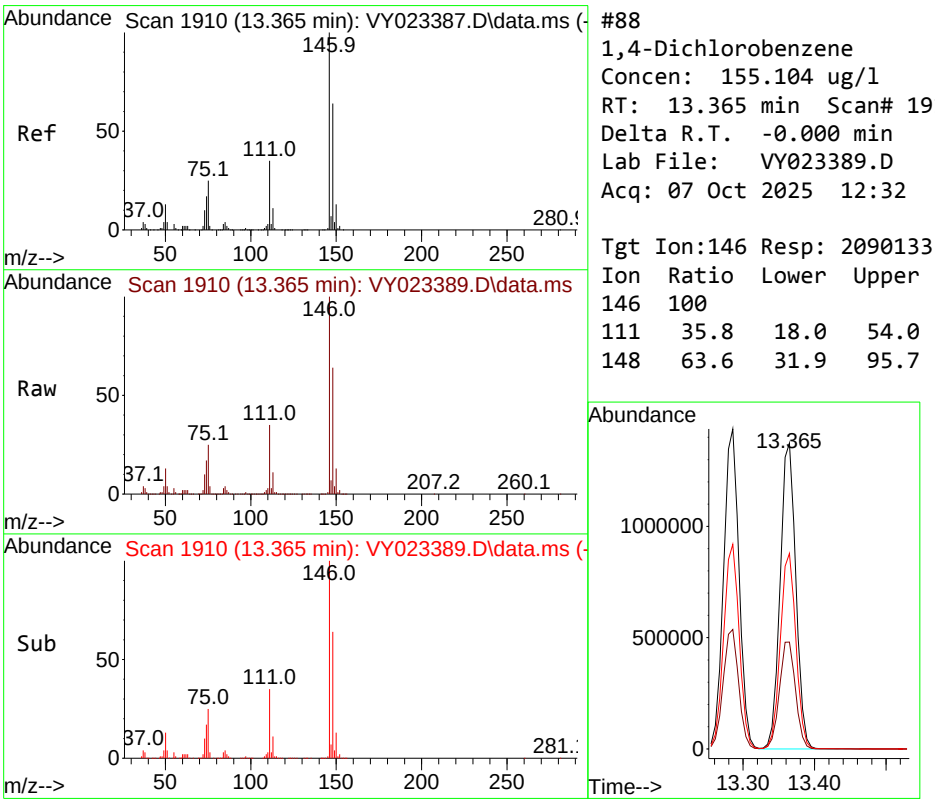
Tgt Ion:146 Resp: 216527

Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.7	56.1
148	64.0	31.9	95.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

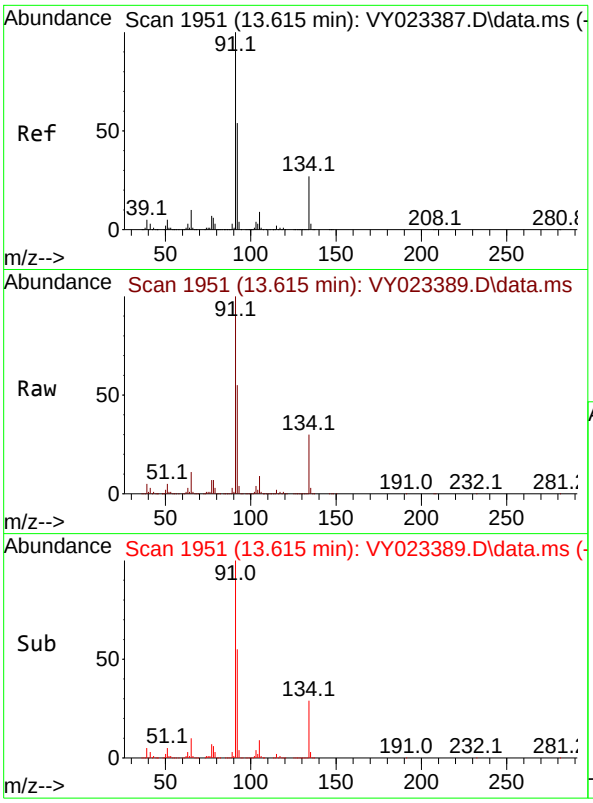
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#88
1,4-Dichlorobenzene
Concen: 155.104 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:146 Resp: 2090133

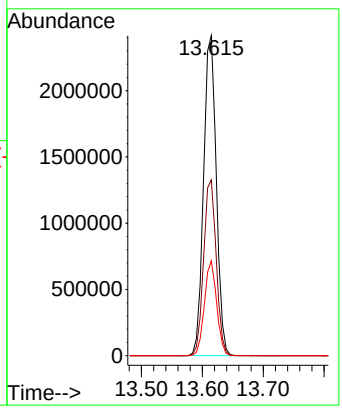
Ion	Ratio	Lower	Upper
146	100		
111	35.8	18.0	54.0
148	63.6	31.9	95.7



#89
n-Butylbenzene
Concen: 163.379 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 91 Resp: 350571

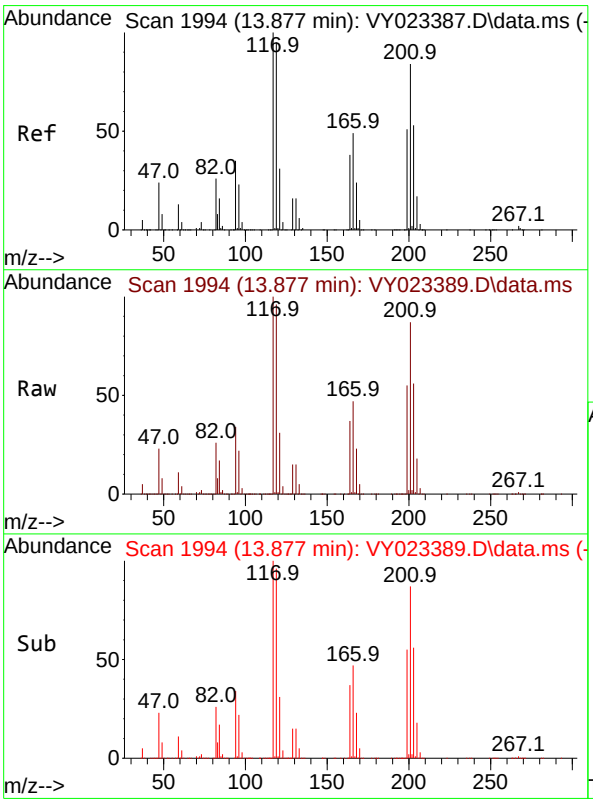
Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.0	80.8
134	28.6	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

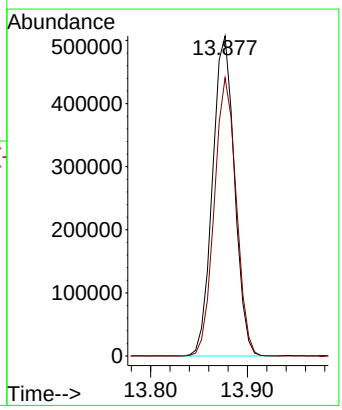
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

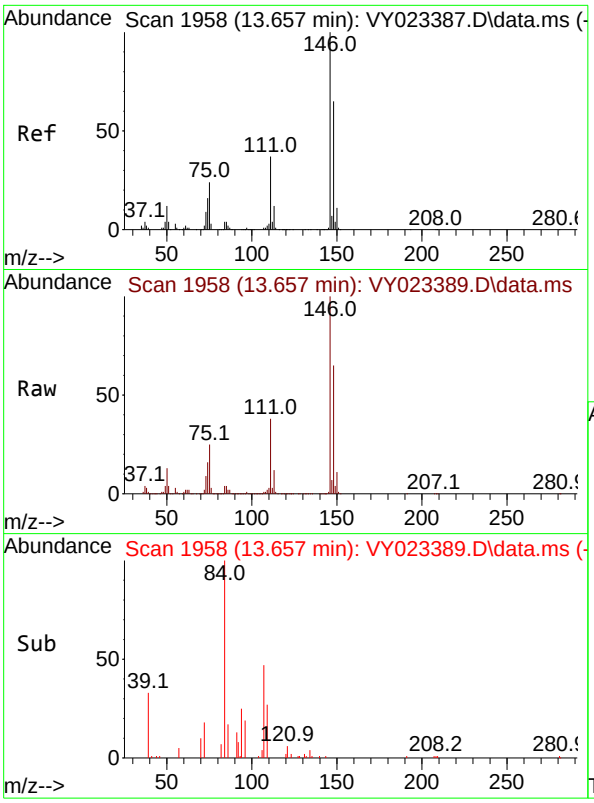


#90
Hexachloroethane
Concen: 151.487 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:117 Resp: 799264

Ion	Ratio	Lower	Upper
117	100		
201	86.8	43.8	131.4

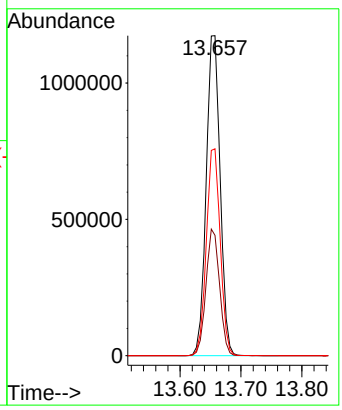




#91
1,2-Dichlorobenzene
Concen: 157.101 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:146 Resp: 186269

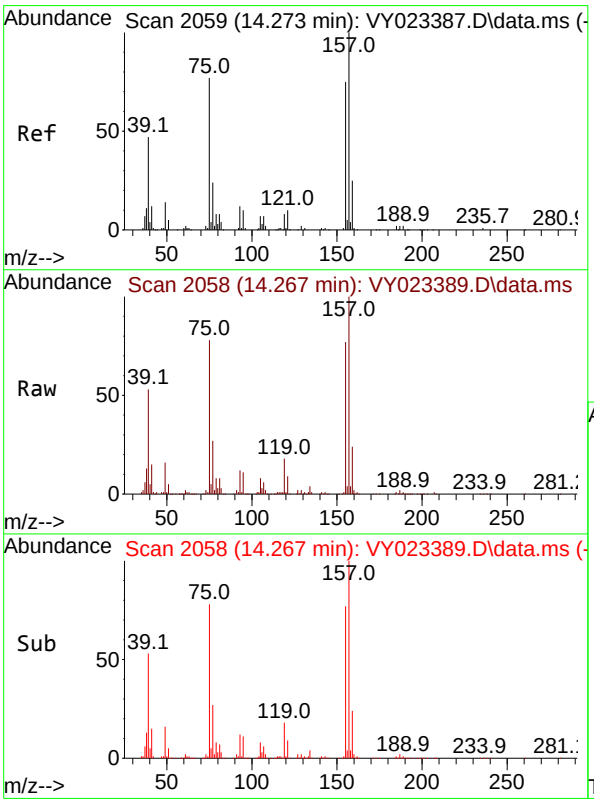
Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.0	57.0
148	64.5	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

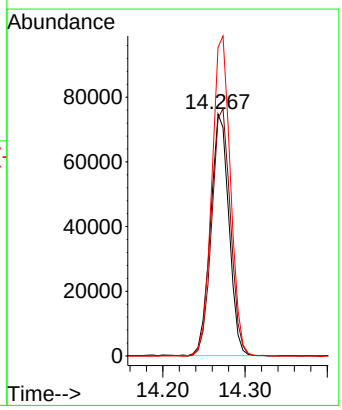
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

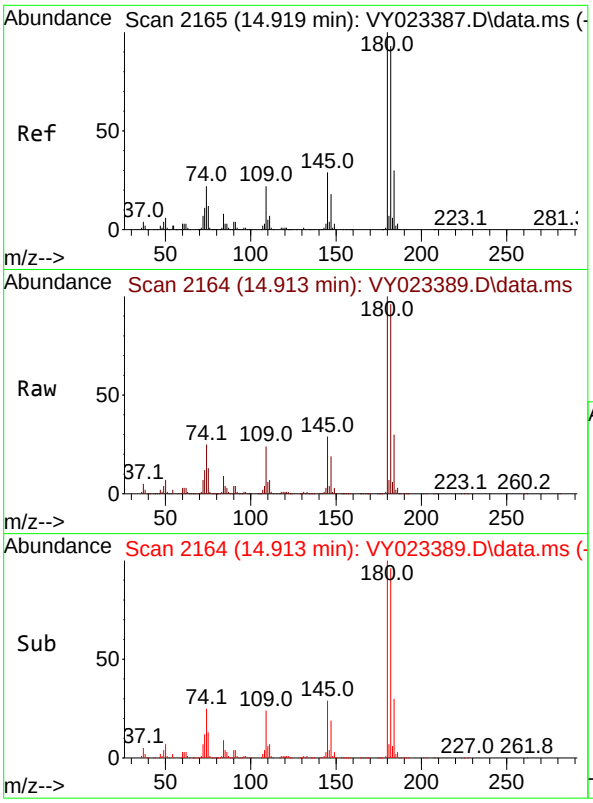


#92
1,2-Dibromo-3-Chloropropane
Concen: 164.099 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 116273

Ion	Ratio	Lower	Upper
75	100		
155	103.6	50.0	150.0
157	133.4	63.8	191.5

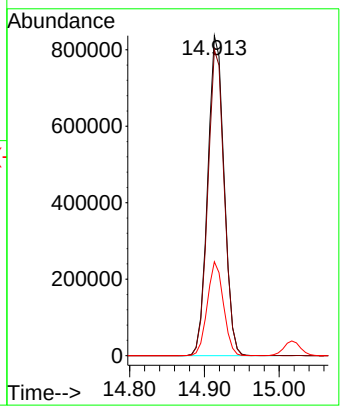




#93
1,2,4-Trichlorobenzene
Concen: 182.183 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:180 Resp: 127262

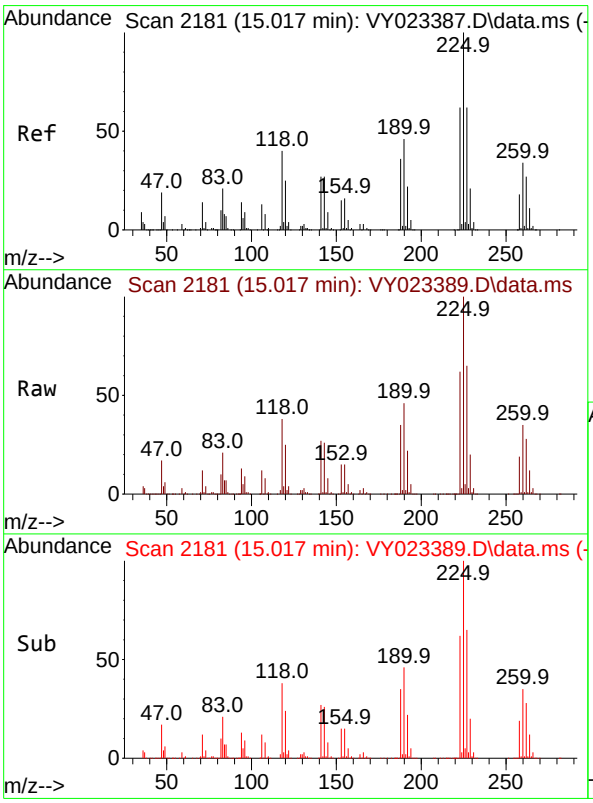
Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.9	143.6
145	28.9	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

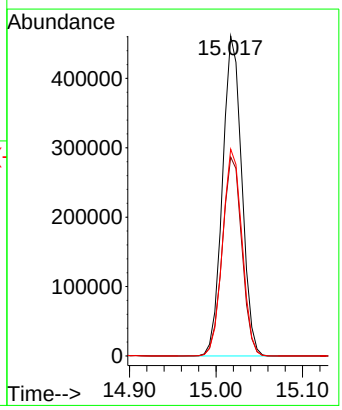
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

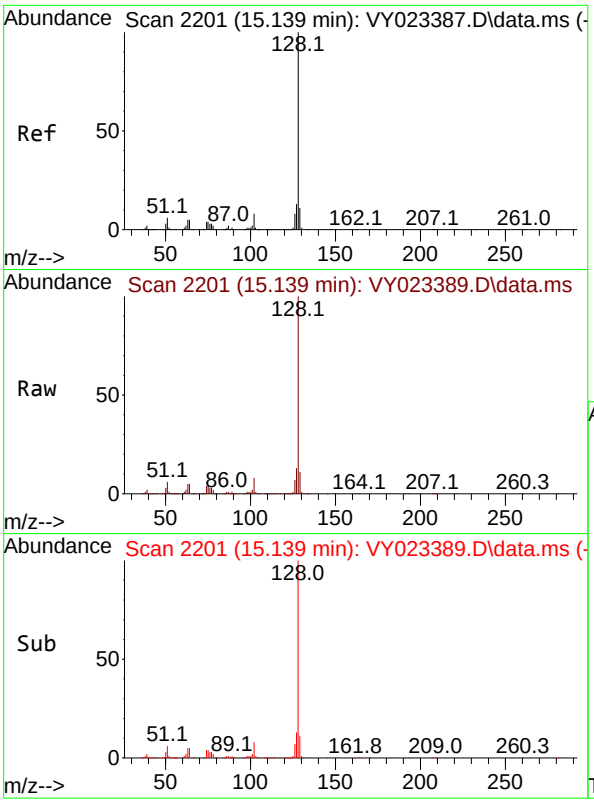


#94
Hexachlorobutadiene
Concen: 163.518 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:225 Resp: 711748

Ion	Ratio	Lower	Upper
225	100		
223	62.9	30.8	92.3
227	65.0	31.9	95.7

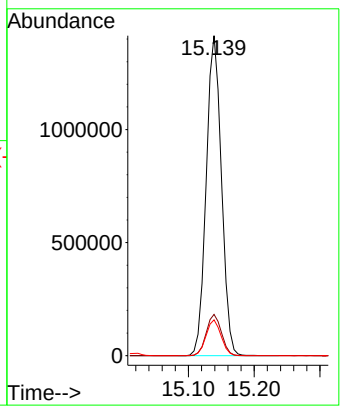




#95
Naphthalene
Concen: 204.639 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:128 Resp: 227754

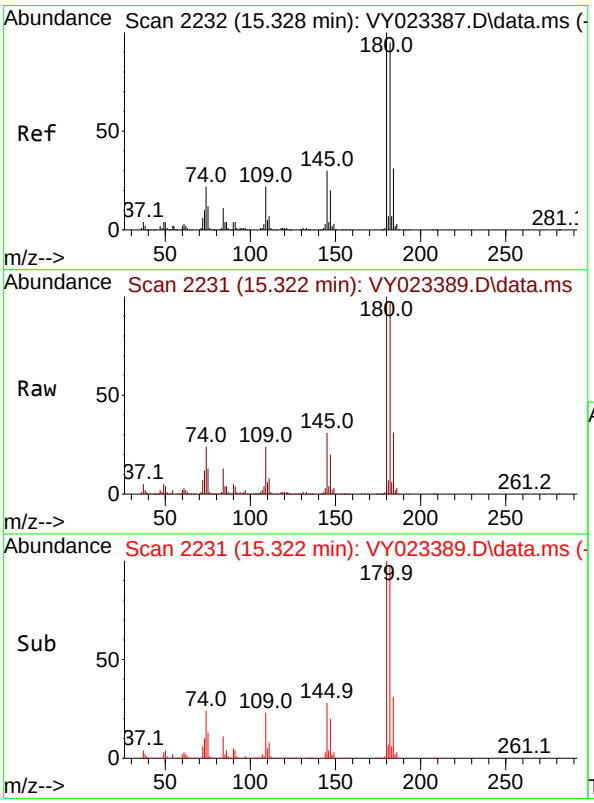
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.1	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

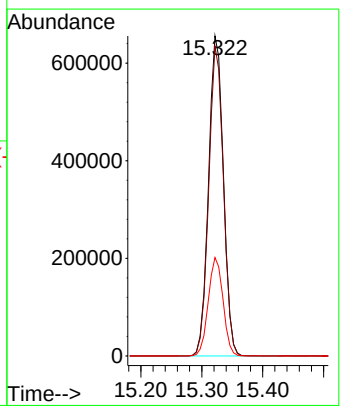
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#96
1,2,3-Trichlorobenzene
Concen: 183.206 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:180 Resp: 1110193

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.9	143.8
145	30.5	15.3	45.9



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	574332	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	861639	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	771372	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	405636	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	237493	49.450	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 98.900%			
35) Dibromofluoromethane	7.634	113	260038	49.116	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.240%			
50) Toluene-d8	10.103	98	970614	49.228	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.460%			
62) 4-Bromofluorobenzene	12.402	95	324700	49.881	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.760%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	185683	44.916	ug/l	99
3) Chloromethane	2.068	50	295766	52.519	ug/l	98
4) Vinyl Chloride	2.208	62	362714	49.449	ug/l	100
5) Bromomethane	2.598	94	300735	48.856	ug/l	98
6) Chloroethane	2.739	64	256831	51.367	ug/l	99
7) Trichlorofluoromethane	3.056	101	494789	48.582	ug/l	99
8) Diethyl Ether	3.458	74	135857	51.050	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.812	101	257524	48.728	ug/l	100
10) Methyl Iodide	4.007	142	305209	51.875	ug/l	98
11) Tert butyl alcohol	4.860	59	82562	231.079	ug/l	100
12) 1,1-Dichloroethene	3.787	96	254382	49.653	ug/l	97
13) Acrolein	3.653	56	124288	246.184	ug/l	99
14) Allyl chloride	4.385	41	316213	50.645	ug/l	99
15) Acrylonitrile	5.055	53	256219	251.575	ug/l	99
16) Acetone	3.866	43	243433	212.910	ug/l	98
17) Carbon Disulfide	4.104	76	733457	50.021	ug/l	100
18) Methyl Acetate	4.385	43	151281	50.439	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	643111	52.230	ug/l	97
20) Methylene Chloride	4.616	84	324604	52.503	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	290384	51.482	ug/l	98
22) Diisopropyl ether	6.019	45	709381	51.364	ug/l	99
23) Vinyl Acetate	5.958	43	1950969	260.981	ug/l	99
24) 1,1-Dichloroethane	5.915	63	464207	50.742	ug/l	98
25) 2-Butanone	6.890	43	325351	233.083	ug/l	99
26) 2,2-Dichloropropane	6.884	77	416585	49.626	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	341964	52.485	ug/l	97
28) Bromochloromethane	7.244	49	155146	45.427	ug/l	100
29) Tetrahydrofuran	7.262	42	200513	253.317	ug/l	99
30) Chloroform	7.421	83	513997	51.137	ug/l	98
31) Cyclohexane	7.701	56	378819	47.416	ug/l	98
32) 1,1,1-Trichloroethane	7.616	97	456112	49.934	ug/l	100
36) 1,1-Dichloropropene	7.835	75	348786	49.761	ug/l	99
37) Ethyl Acetate	6.982	43	138119	49.740	ug/l	98
38) Carbon Tetrachloride	7.817	117	413653	48.671	ug/l	99
39) Methylcyclohexane	9.109	83	456031	49.970	ug/l	99
40) Benzene	8.079	78	1107790	49.906	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	72100	48.008	ug/l		96
42) 1,2-Dichloroethane	8.158	62	282332	49.318	ug/l		99
43) Isopropyl Acetate	8.195	43	279887	50.548	ug/l		100
44) Trichloroethene	8.866	130	319131	49.120	ug/l		98
45) 1,2-Dichloropropane	9.140	63	246887	50.355	ug/l		100
46) Dibromomethane	9.231	93	157758	50.885	ug/l		98
47) Bromodichloromethane	9.420	83	393918	50.450	ug/l		99
48) Methyl methacrylate	9.219	41	128606	49.440	ug/l		95
49) 1,4-Dioxane	9.231	88	37356	1039.252	ug/l		97
51) 4-Methyl-2-Pentanone	10.000	43	724992	253.421	ug/l		100
52) Toluene	10.170	92	743055	51.556	ug/l		99
53) t-1,3-Dichloropropene	10.390	75	347336	51.160	ug/l		99
54) cis-1,3-Dichloropropene	9.853	75	413860	51.649	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	210245	50.430	ug/l		97
56) Ethyl methacrylate	10.438	69	256731	53.385	ug/l		99
57) 1,3-Dichloropropane	10.713	76	337673	51.113	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	586266	272.133	ug/l		100
59) 2-Hexanone	10.762	43	501877	245.480	ug/l		99
60) Dibromochloromethane	10.908	129	297946	50.974	ug/l		99
61) 1,2-Dibromoethane	11.018	107	201415	50.658	ug/l		100
64) Tetrachloroethene	10.646	164	382998	48.087	ug/l		99
65) Chlorobenzene	11.438	112	828466	49.381	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.518	131	296157	49.537	ug/l		99
67) Ethyl Benzene	11.518	91	1380691	50.841	ug/l		100
68) m/p-Xylenes	11.627	106	1108386	101.757	ug/l		100
69) o-Xylene	11.950	106	526954	51.577	ug/l		100
70) Styrene	11.969	104	875709	52.122	ug/l		100
71) Bromoform	12.133	173	185682	50.070	ug/l	#	98
73) Isopropylbenzene	12.255	105	1345109	50.318	ug/l		100
74) N-amyl acetate	12.066	43	245291	51.087	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.505	83	217245	49.688	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	153438m	42.874	ug/l		
77) Bromobenzene	12.530	156	352420	49.590	ug/l		99
78) n-propylbenzene	12.591	91	1568180	50.694	ug/l		100
79) 2-Chlorotoluene	12.676	91	906610	50.047	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	1106664	51.231	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	67959	46.566	ug/l		97
82) 4-Chlorotoluene	12.773	91	941314	50.455	ug/l		100
83) tert-Butylbenzene	12.993	119	1037510	52.019	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	1110672	51.520	ug/l		99
85) sec-Butylbenzene	13.176	105	1454774	50.848	ug/l		100
86) p-Isopropyltoluene	13.292	119	1263377	51.864	ug/l		99
87) 1,3-Dichlorobenzene	13.286	146	686854	49.632	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	671644	49.140	ug/l		100
89) n-Butylbenzene	13.615	91	1100086	51.829	ug/l		99
90) Hexachloroethane	13.877	117	257335	49.116	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	602989	49.698	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	34928	48.687	ug/l		99
93) 1,2,4-Trichlorobenzene	14.919	180	386806	51.138	ug/l		100
94) Hexachlorobutadiene	15.023	225	236040	50.061	ug/l		99
95) Naphthalene	15.139	128	628190	52.154	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	335267	51.172	ug/l		100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

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

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

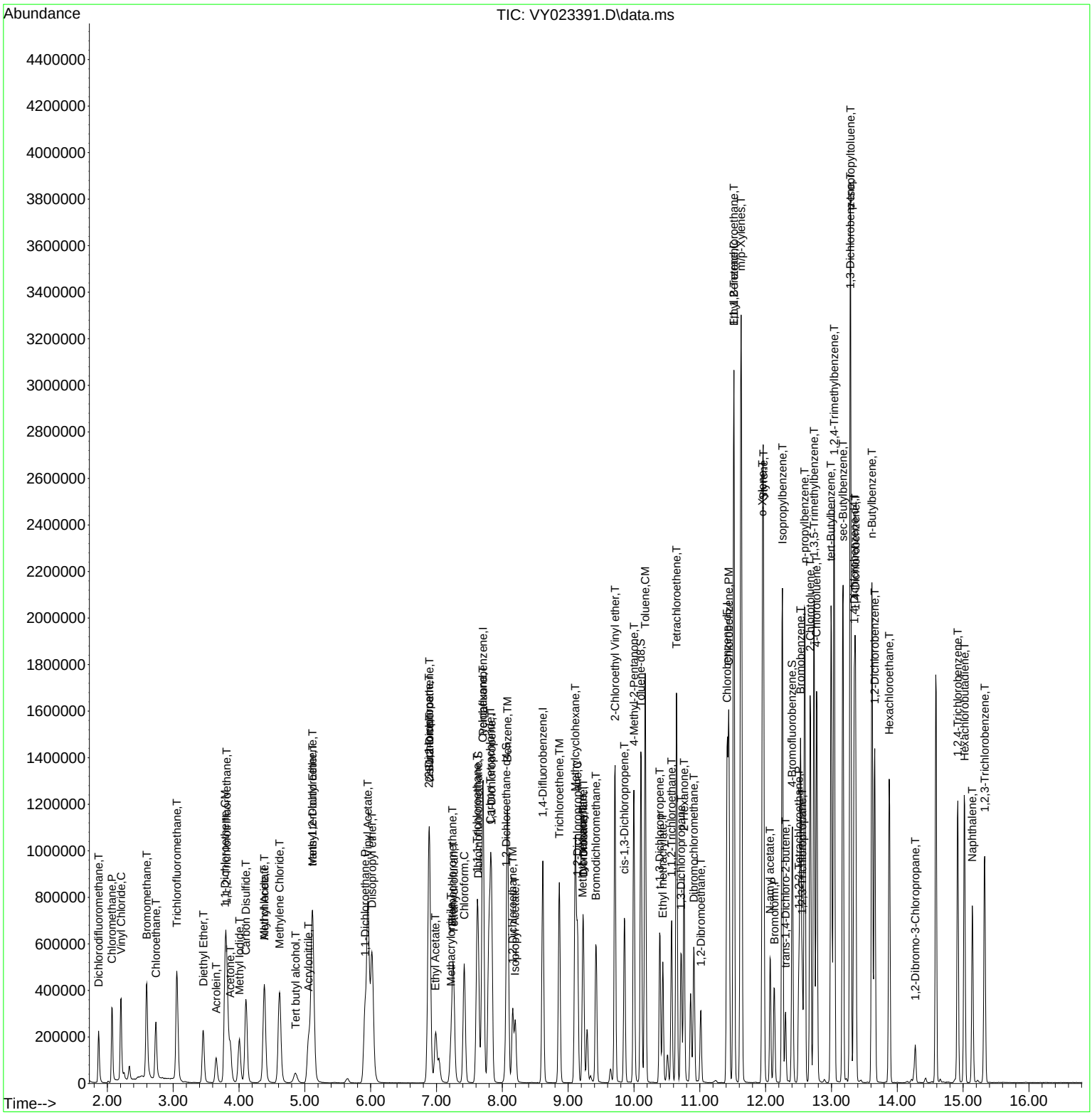
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

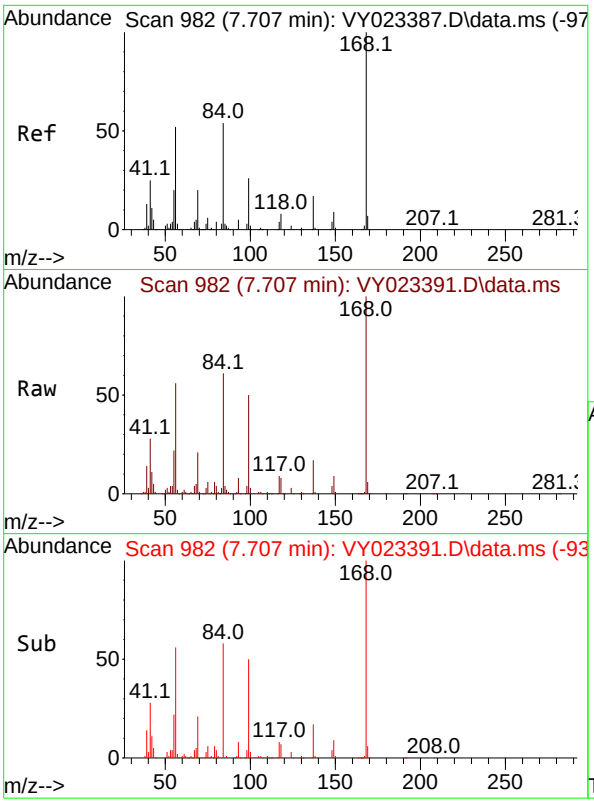
Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

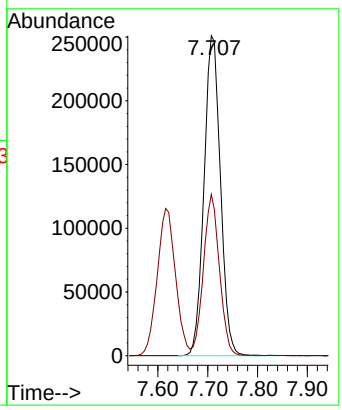




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:168 Resp: 57433

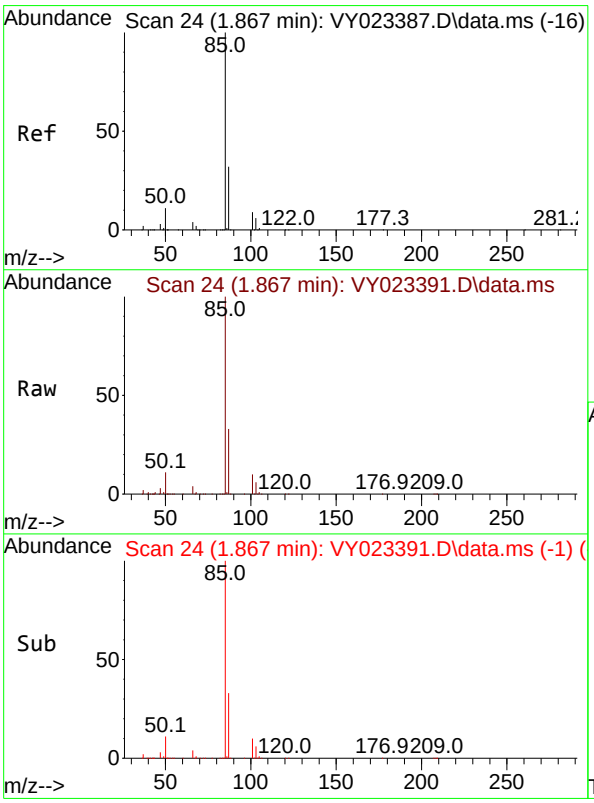
Ion	Ratio	Lower	Upper
168	100		
99	50.4	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

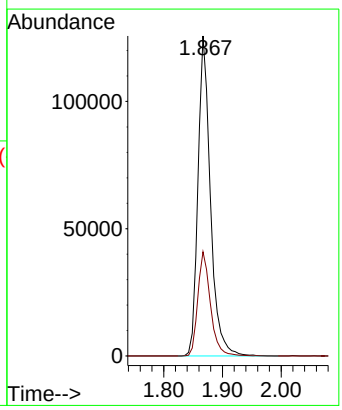
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

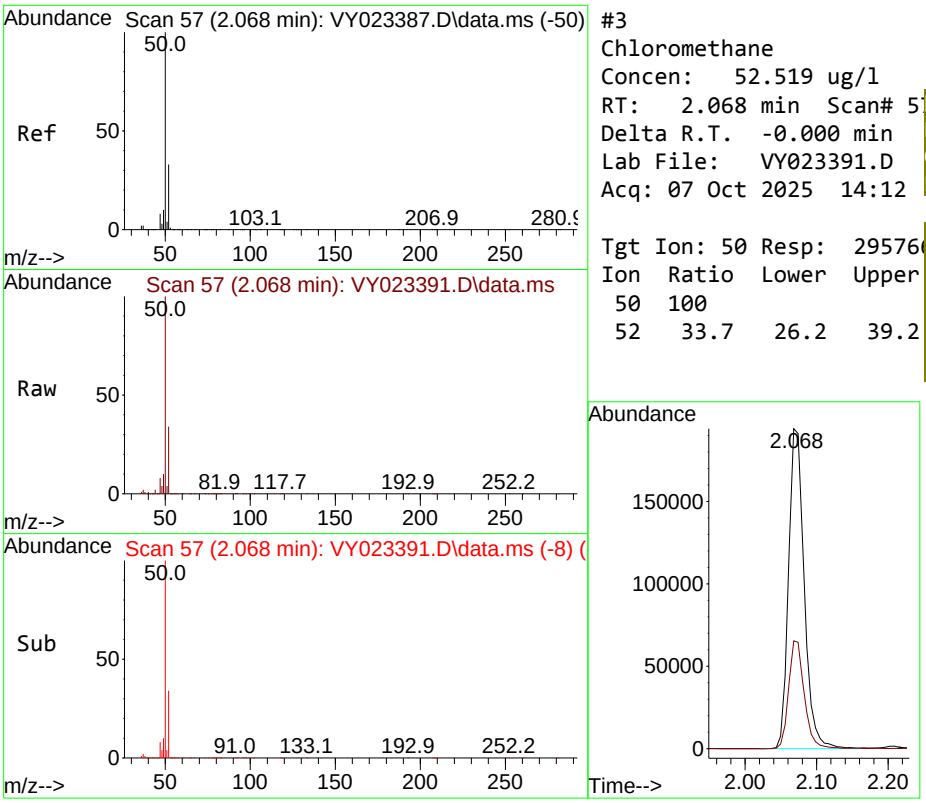


#2
Dichlorodifluoromethane
Concen: 44.916 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 85 Resp: 185683

Ion	Ratio	Lower	Upper
85	100		
87	32.6	16.0	47.9





#3
Chloromethane
Concen: 52.519 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

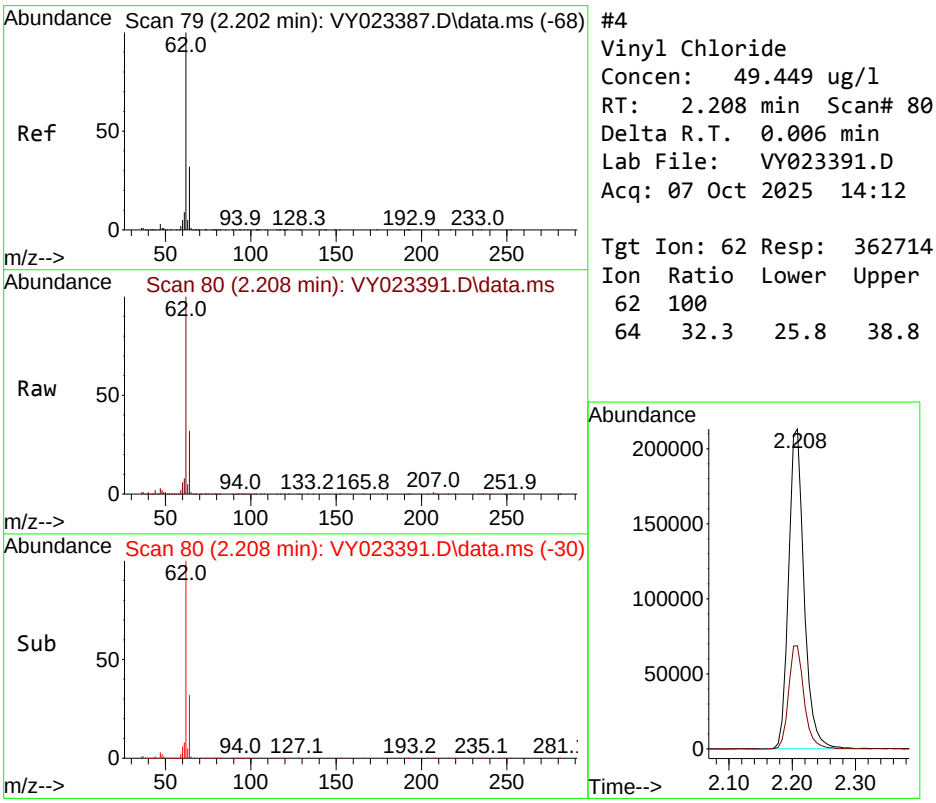
Tgt Ion: 50 Resp: 29576

Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.2	39.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

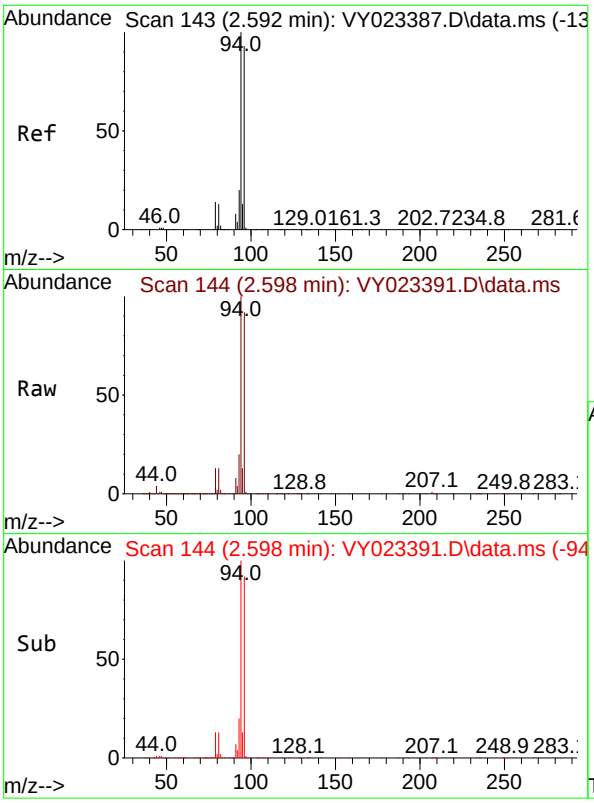
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#4
Vinyl Chloride
Concen: 49.449 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 62 Resp: 362714

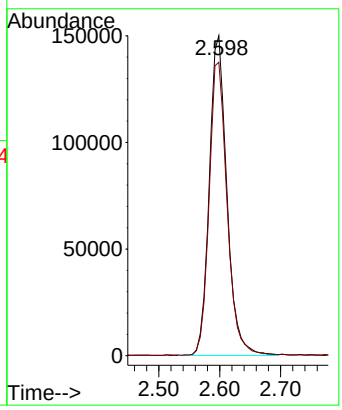
Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.8	38.8



#5
Bromomethane
Concen: 48.856 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 94 Resp: 30073

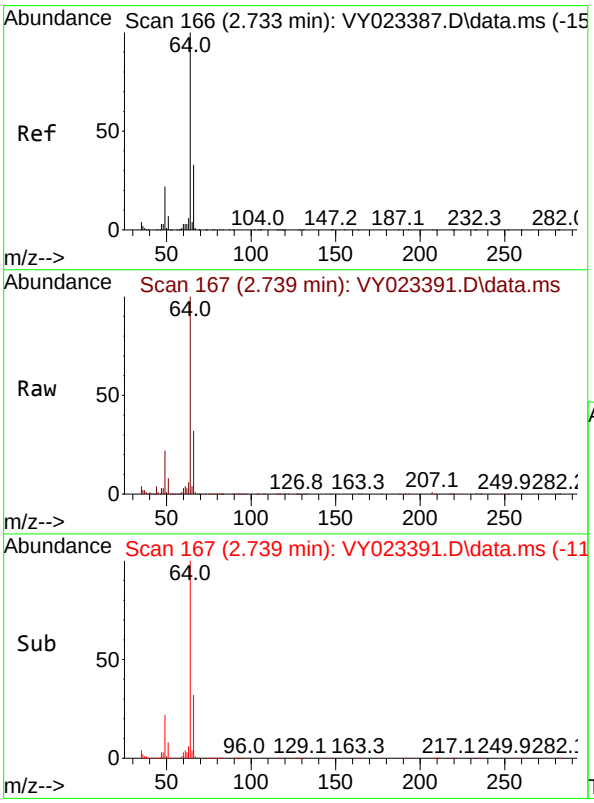
Ion	Ratio	Lower	Upper
94	100		
96	91.5	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

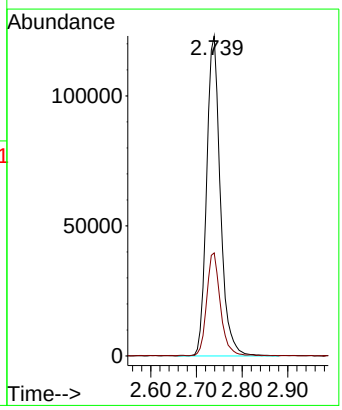
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

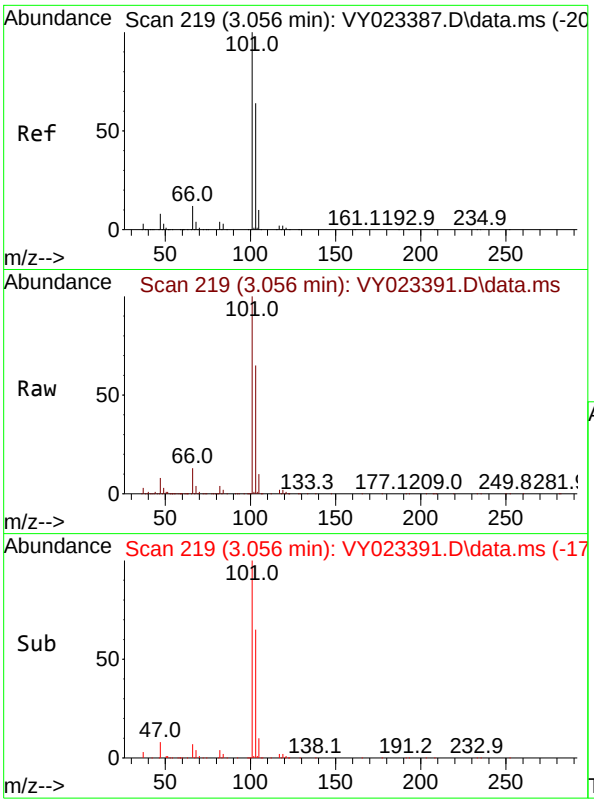


#6
Chloroethane
Concen: 51.367 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 64 Resp: 256831

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.2	39.4

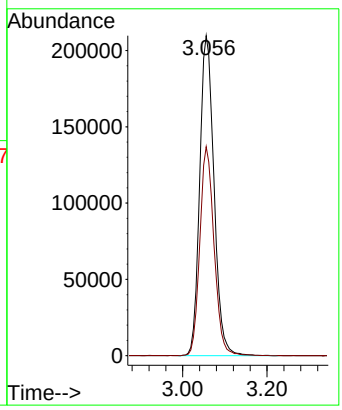




#7
Trichlorofluoromethane
Concen: 48.582 ug/l
RT: 3.056 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:101 Resp: 49478

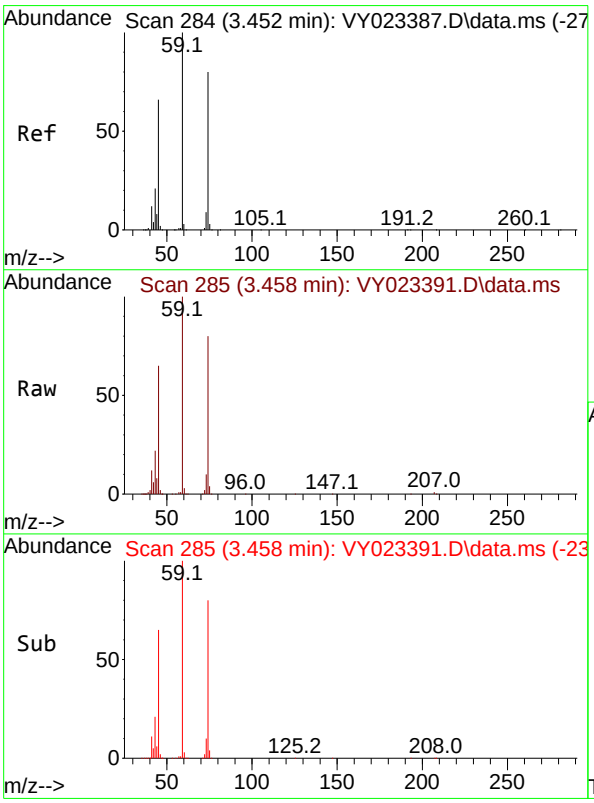
Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
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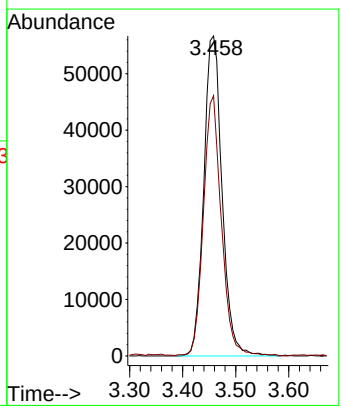
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

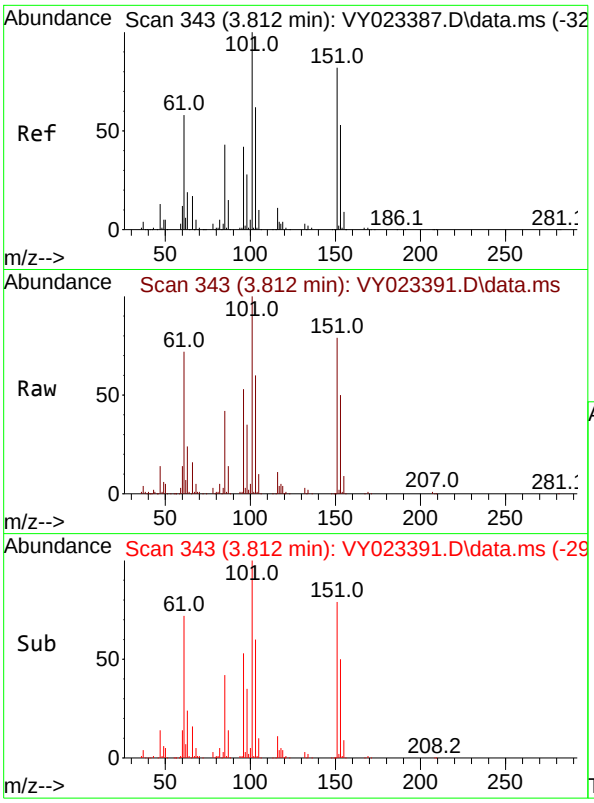


#8
Diethyl Ether
Concen: 51.050 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 74 Resp: 135857

Ion	Ratio	Lower	Upper
74	100		
45	80.1	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.728 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

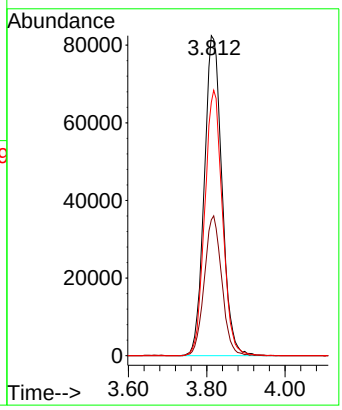
Tgt Ion:101 Resp: 25752

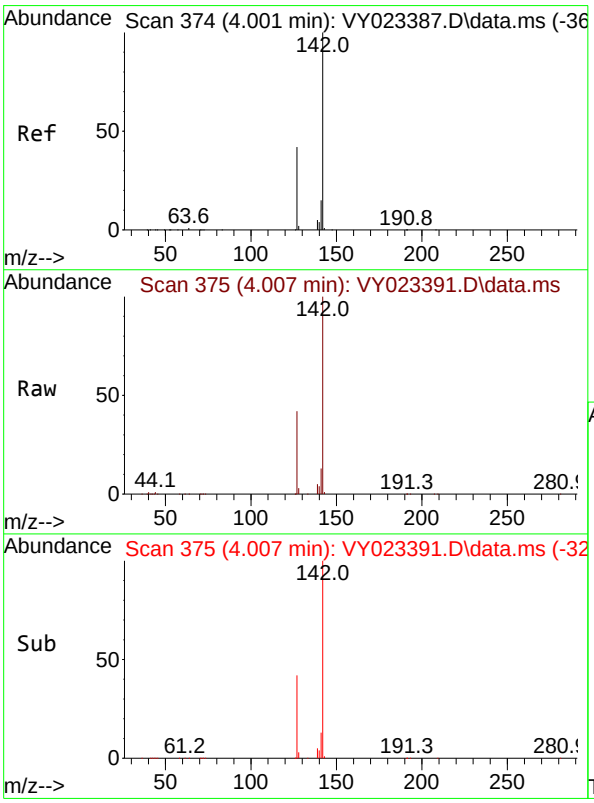
Ion	Ratio	Lower	Upper
101	100		
85	43.2	34.6	51.8
151	83.2	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

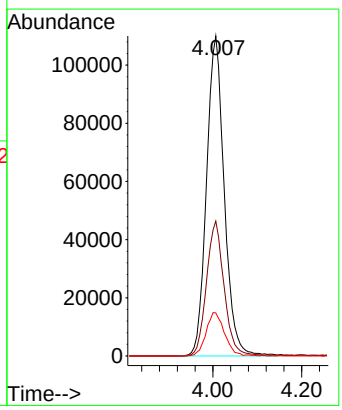


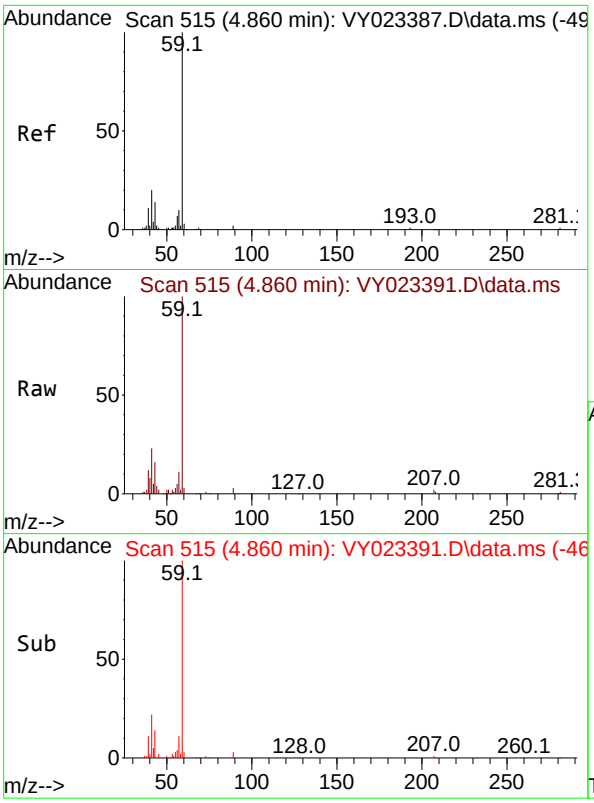


#10
Methyl Iodide
Concen: 51.875 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:142 Resp: 305209

Ion	Ratio	Lower	Upper
142	100		
127	41.8	34.8	52.2
141	14.1	11.6	17.4

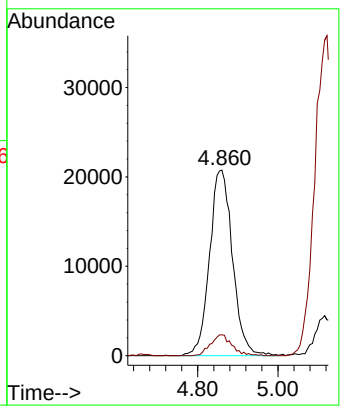




#11
Tert butyl alcohol
Concen: 231.079 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 59 Resp: 8256

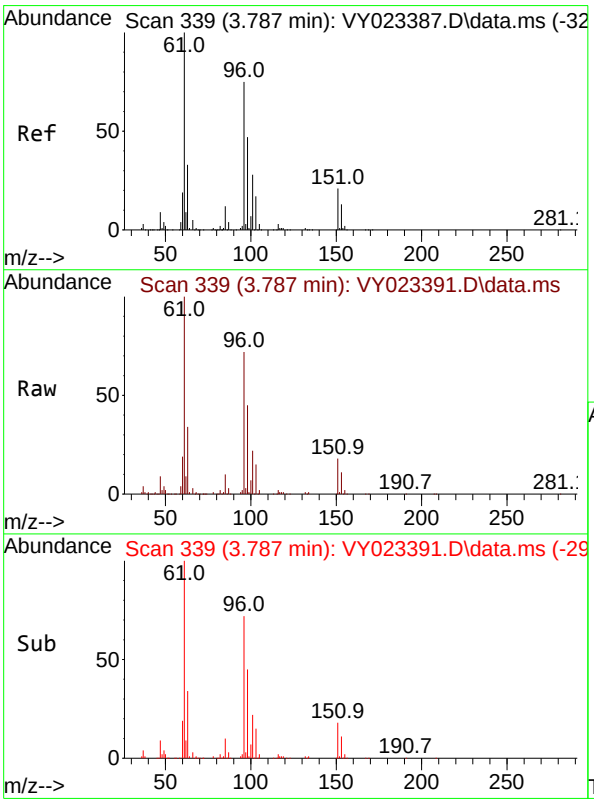
Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

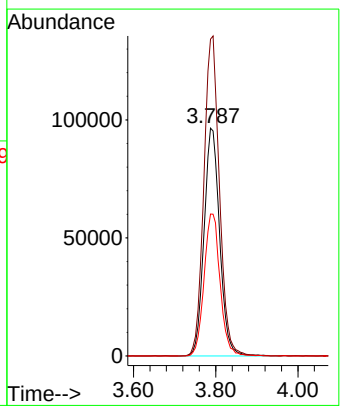
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

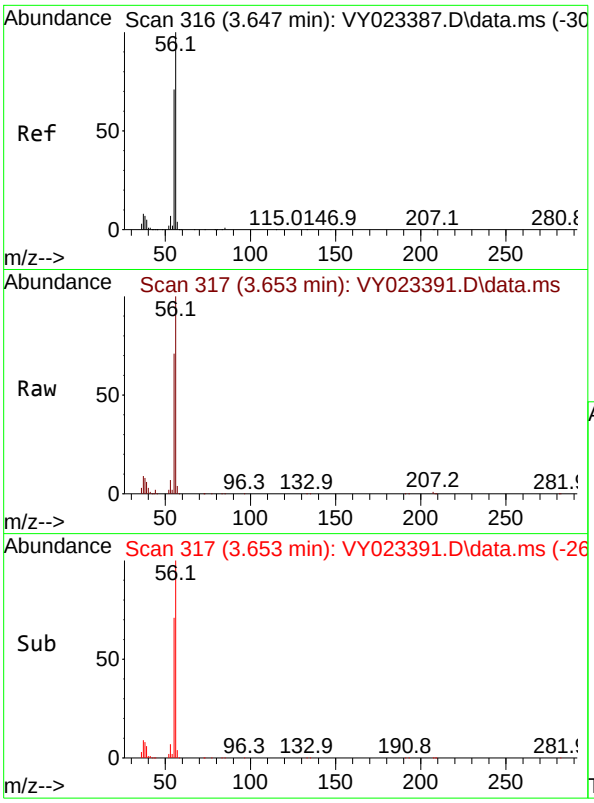


#12
1,1-Dichloroethene
Concen: 49.653 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 96 Resp: 254382

Ion	Ratio	Lower	Upper
96	100		
61	139.1	106.7	160.1
98	62.3	50.2	75.4

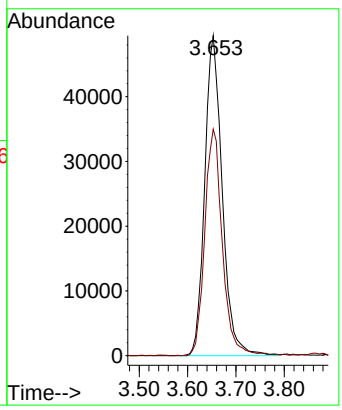




#13
Acrolein
Concen: 246.184 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 56 Resp: 12428

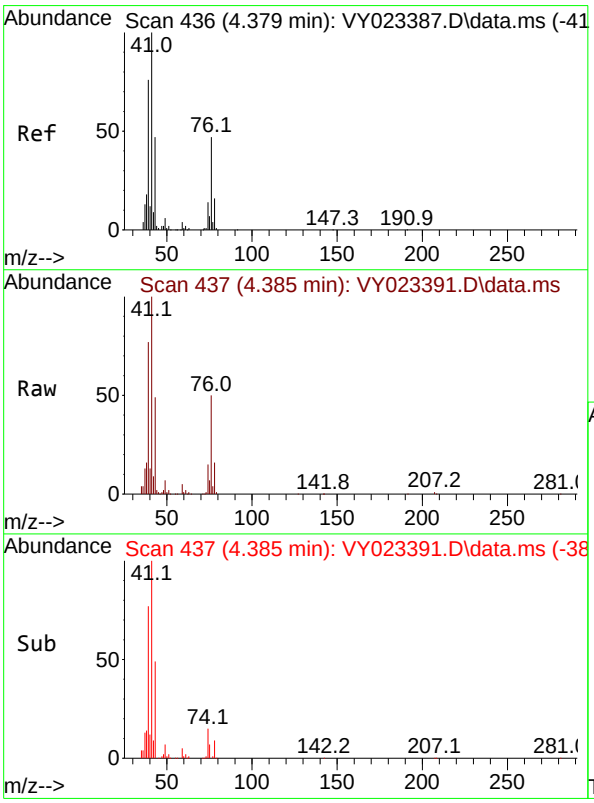
Ion	Ratio	Lower	Upper
56	100		
55	71.1	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

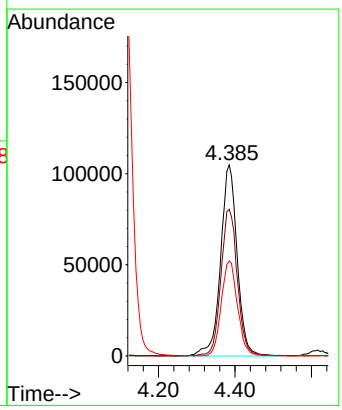
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

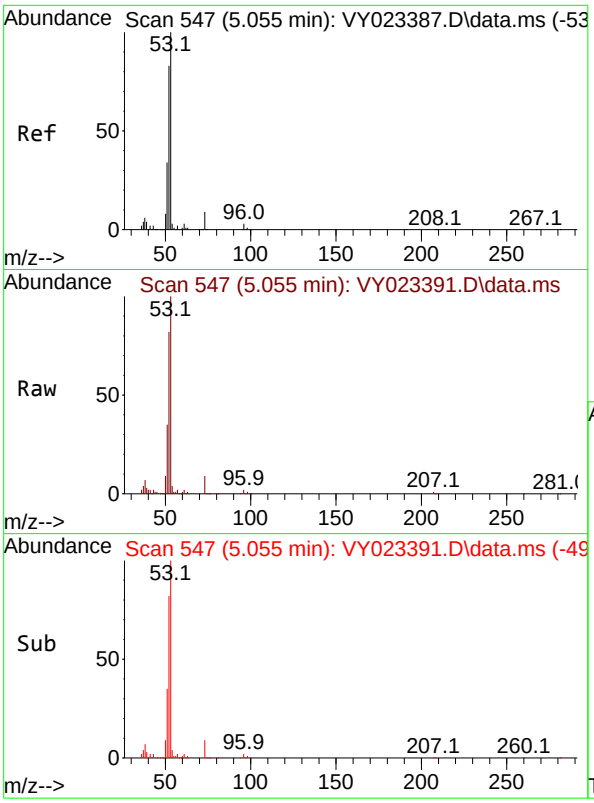


#14
Allyl chloride
Concen: 50.645 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 41 Resp: 316213

Ion	Ratio	Lower	Upper
41	100		
39	76.2	59.9	89.9
76	48.1	38.0	57.0

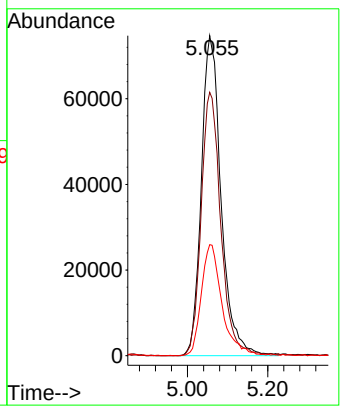




#15
Acrylonitrile
Concen: 251.575 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 53 Resp: 25621

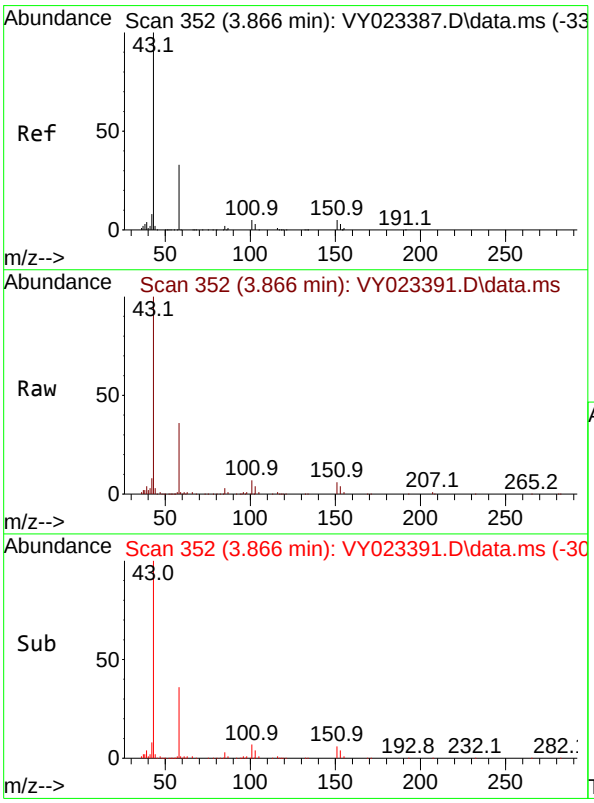
Ion	Ratio	Lower	Upper
53	100		
52	81.7	64.6	97.0
51	36.4	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

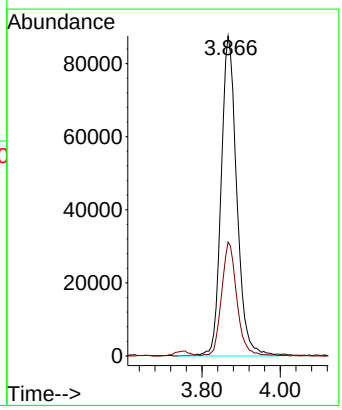
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

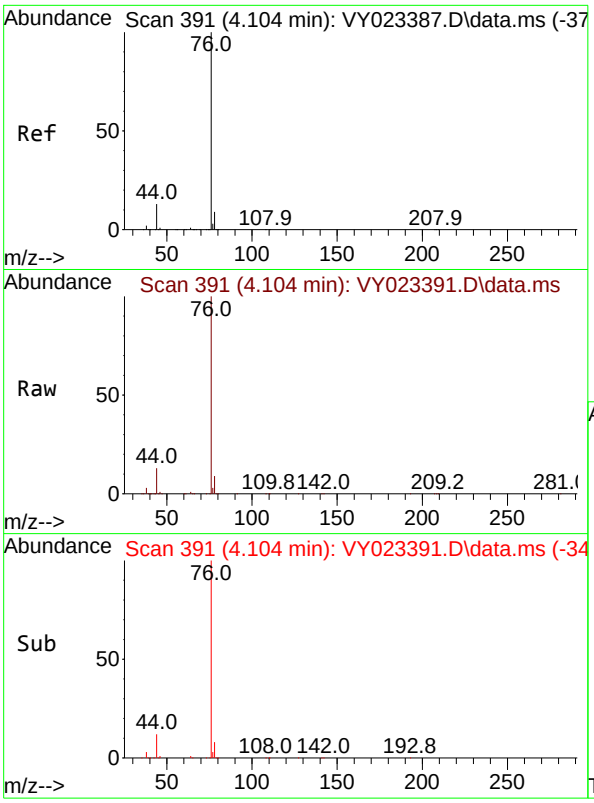


#16
Acetone
Concen: 212.910 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 243433

Ion	Ratio	Lower	Upper
43	100		
58	35.5	27.7	41.5

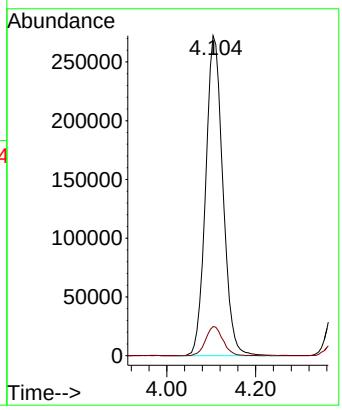




#17
Carbon Disulfide
Concen: 50.021 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 76 Resp: 73345

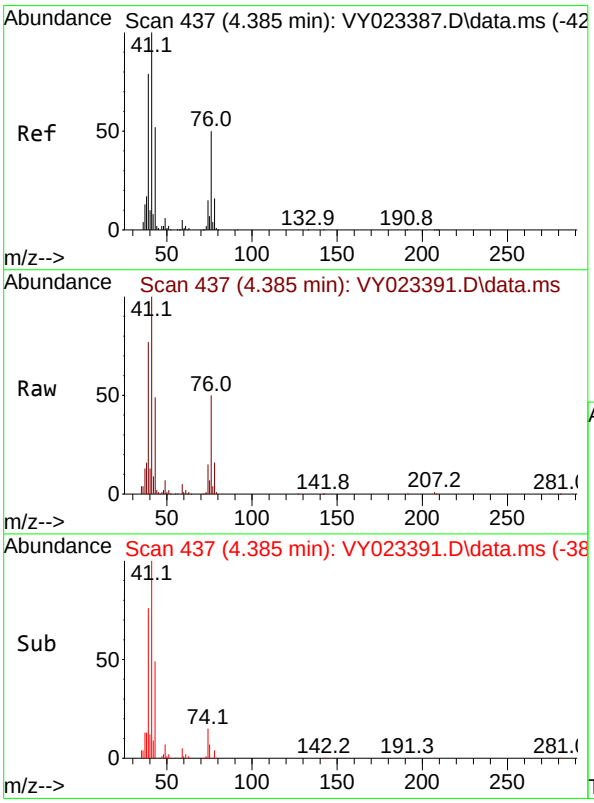
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

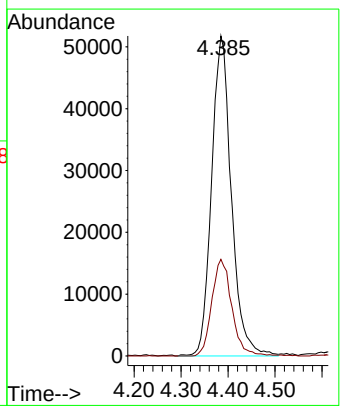
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

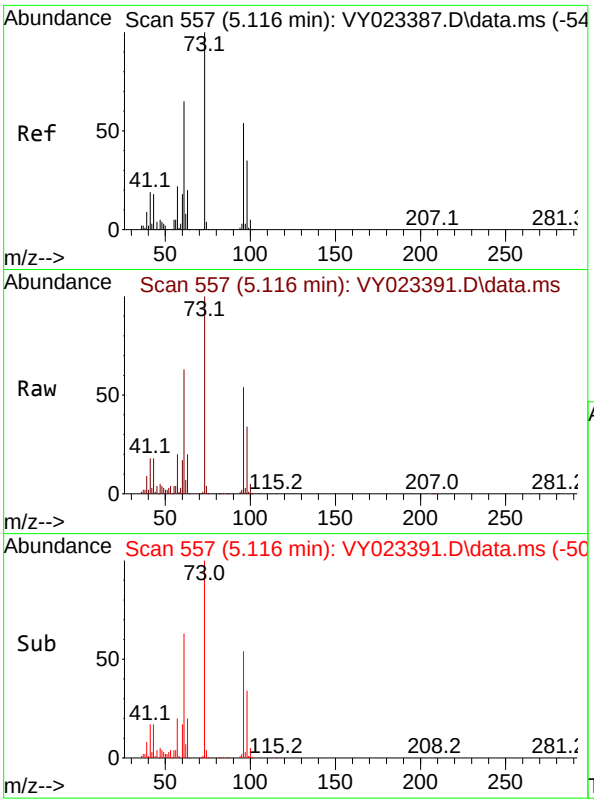


#18
Methyl Acetate
Concen: 50.439 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 151281

Ion	Ratio	Lower	Upper
43	100		
74	30.5	24.2	36.4

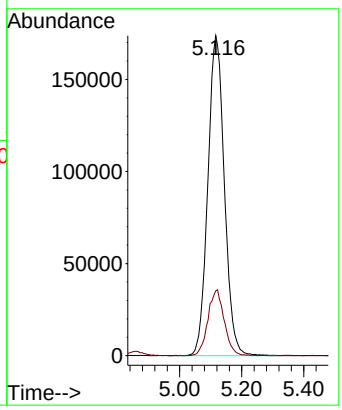




#19
Methyl tert-butyl Ether
Concen: 52.230 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 73 Resp: 64311

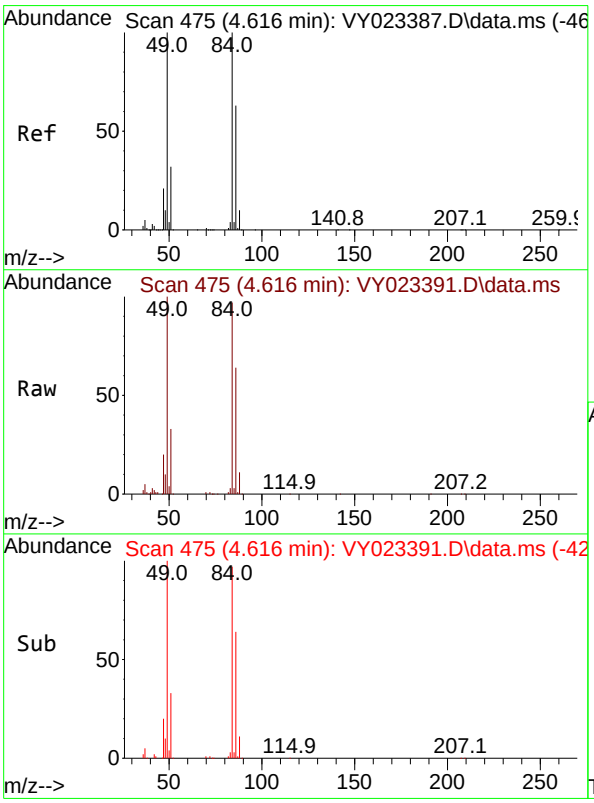
Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

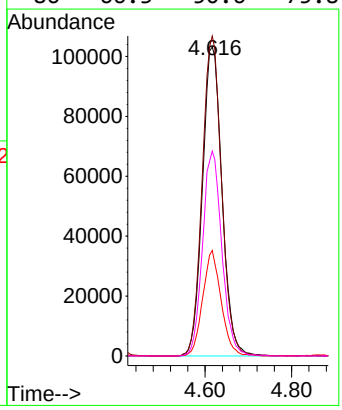
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

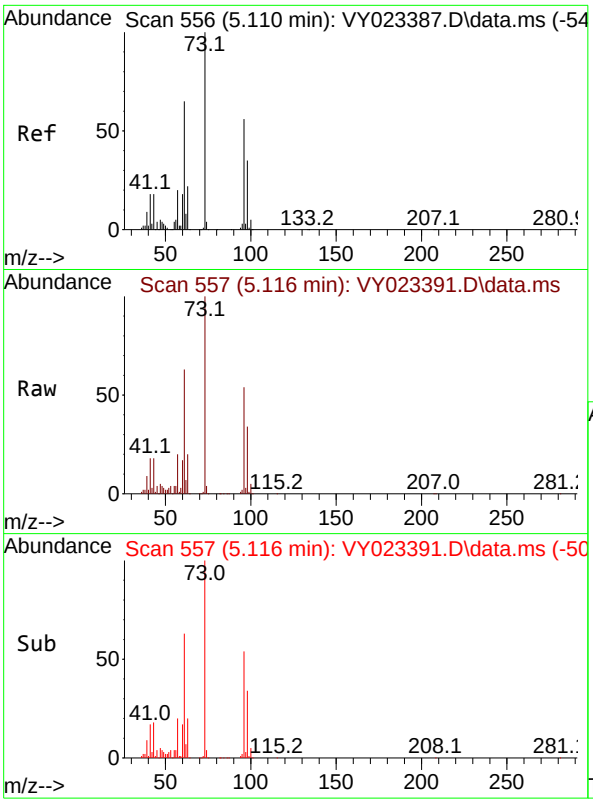


#20
Methylene Chloride
Concen: 52.503 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 84 Resp: 324604

Ion	Ratio	Lower	Upper
84	100		
49	103.5	80.2	120.4
51	34.1	25.9	38.9
86	66.3	50.6	75.8

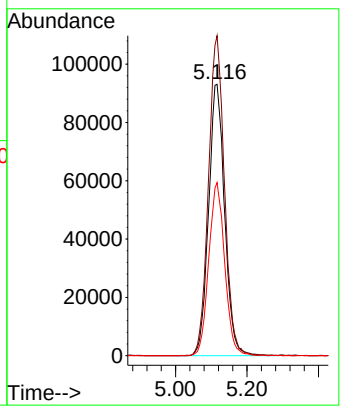




#21
trans-1,2-Dichloroethene
Concen: 51.482 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 96 Resp: 29038

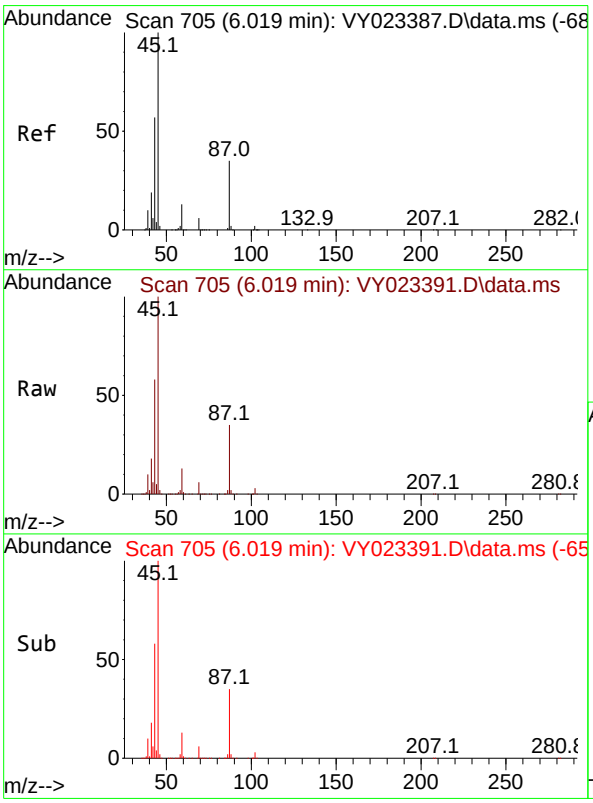
Ion	Ratio	Lower	Upper
96	100		
61	117.9	92.7	139.1
98	63.8	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

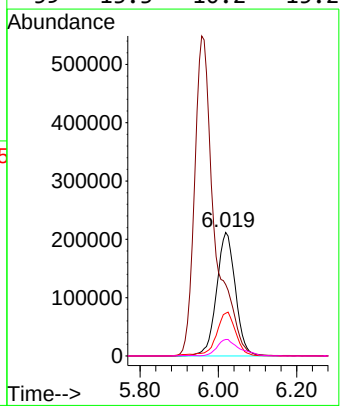
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

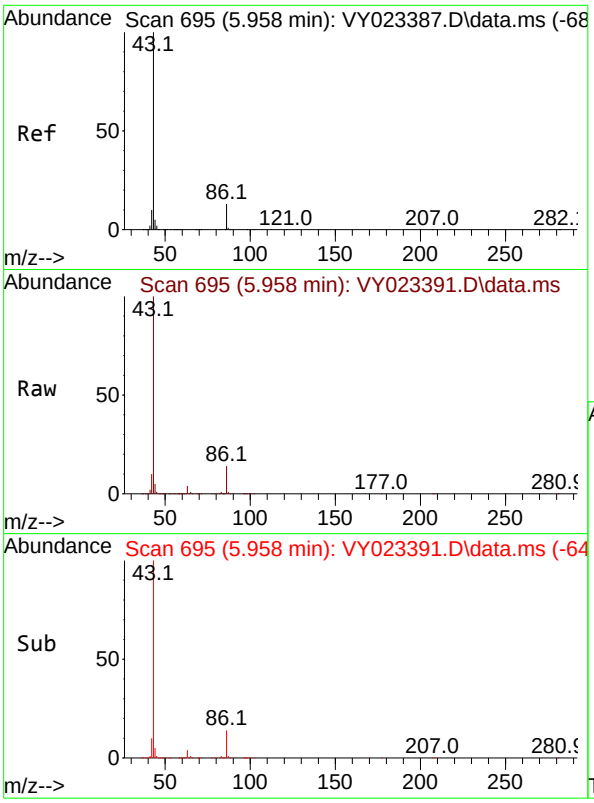


#22
Diisopropyl ether
Concen: 51.364 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 45 Resp: 709381

Ion	Ratio	Lower	Upper
45	100		
43	57.4	45.6	68.4
87	34.6	28.1	42.1
59	13.3	10.2	15.2

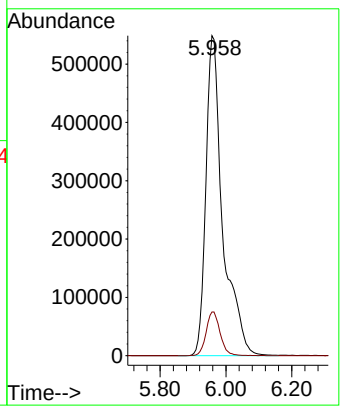




#23
Vinyl Acetate
Concen: 260.981 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 195096

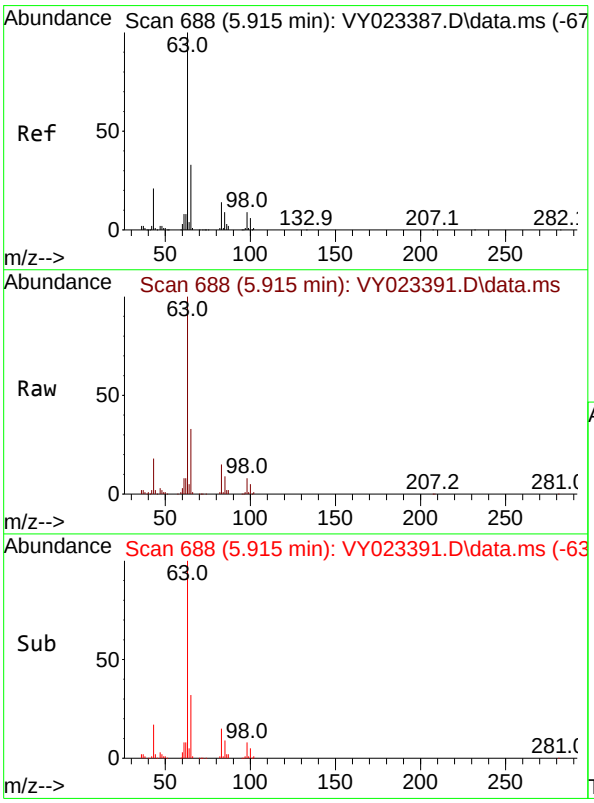
Ion	Ratio	Lower	Upper
43	100		
86	13.7	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

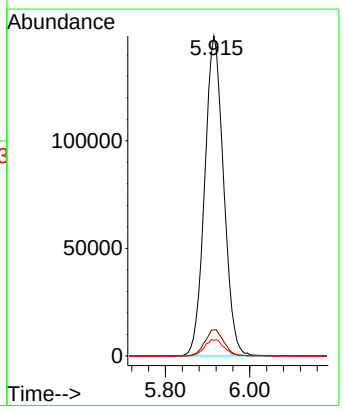
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

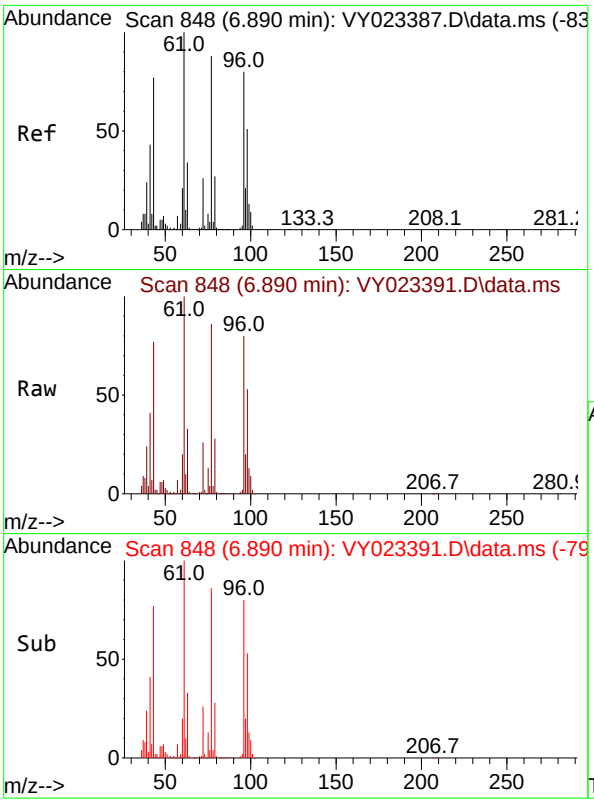


#24
1,1-Dichloroethane
Concen: 50.742 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 63 Resp: 464207

Ion	Ratio	Lower	Upper
63	100		
98	8.1	4.3	13.1
100	5.0	2.8	8.4





#25
2-Butanone
Concen: 233.083 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

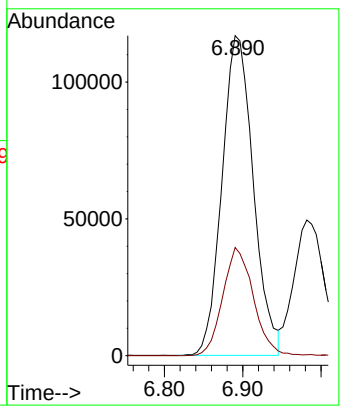
Tgt Ion: 43 Resp: 32535

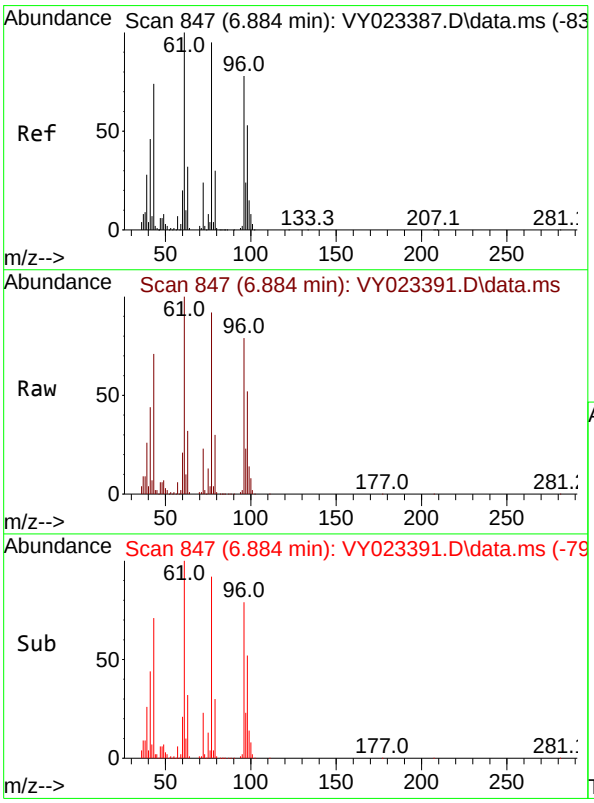
Ion	Ratio	Lower	Upper
43	100		
72	33.8	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

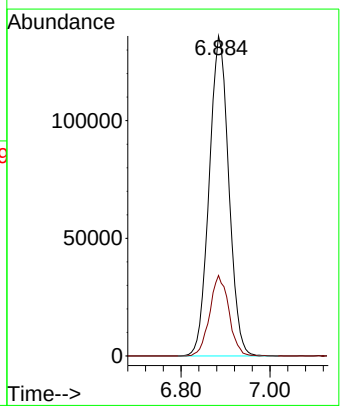


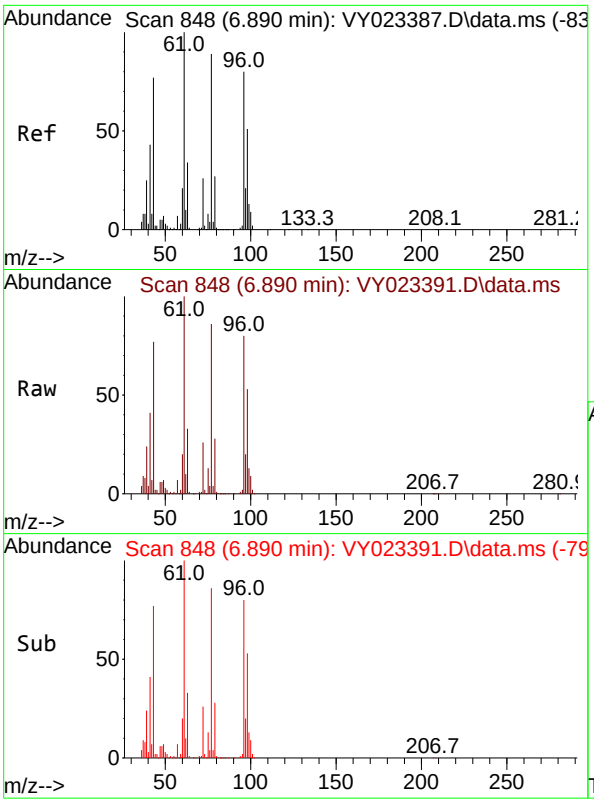


#26
2,2-Dichloropropane
Concen: 49.626 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 77 Resp: 416585

Ion	Ratio	Lower	Upper
77	100		
97	24.6	12.1	36.3

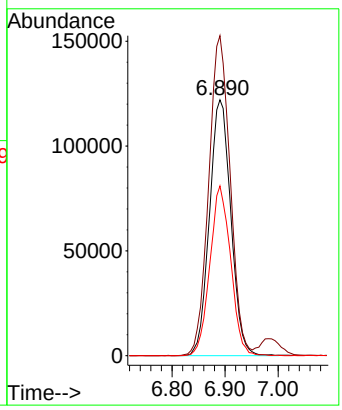




#27
cis-1,2-Dichloroethene
Concen: 52.485 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 96 Resp: 34196

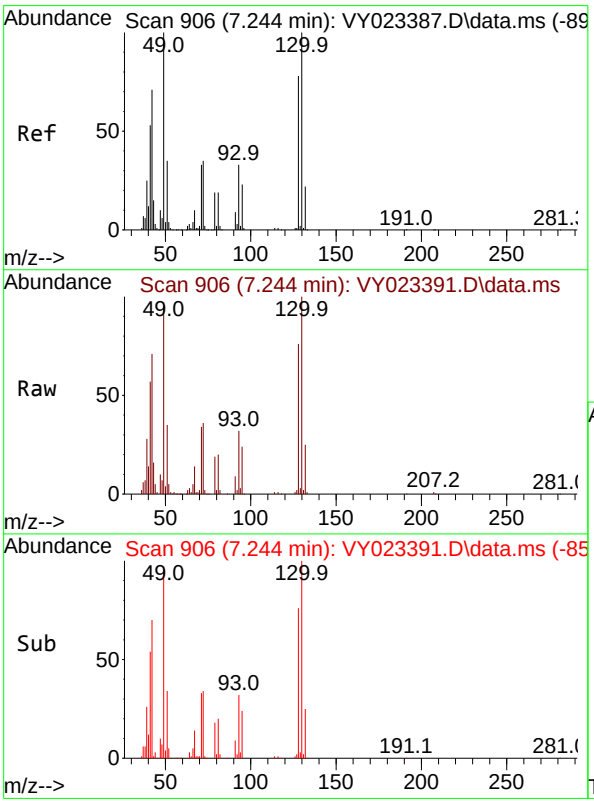
Ion	Ratio	Lower	Upper
96	100		
61	125.5	0.0	258.2
98	64.3	0.0	132.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

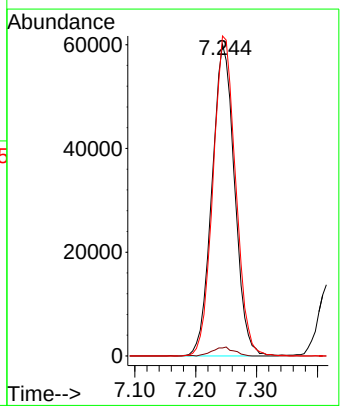
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

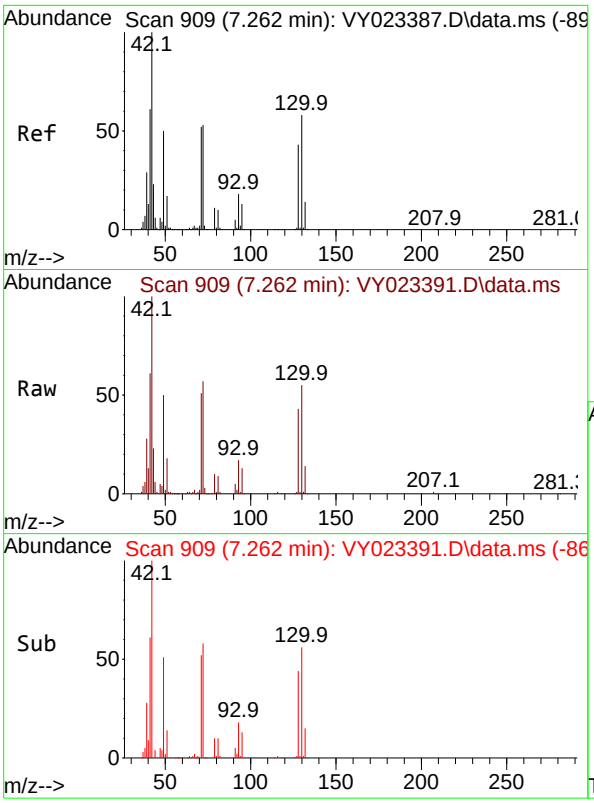


#28
Bromochloromethane
Concen: 45.427 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 49 Resp: 155146

Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	5.6
130	102.6	81.9	122.9

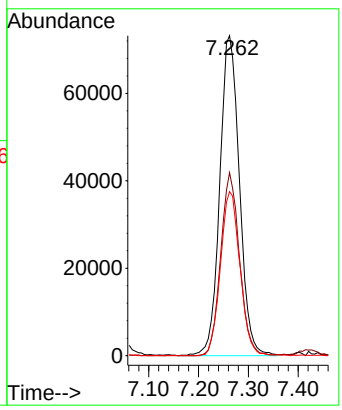




#29
Tetrahydrofuran
Concen: 253.317 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 42 Resp: 20051

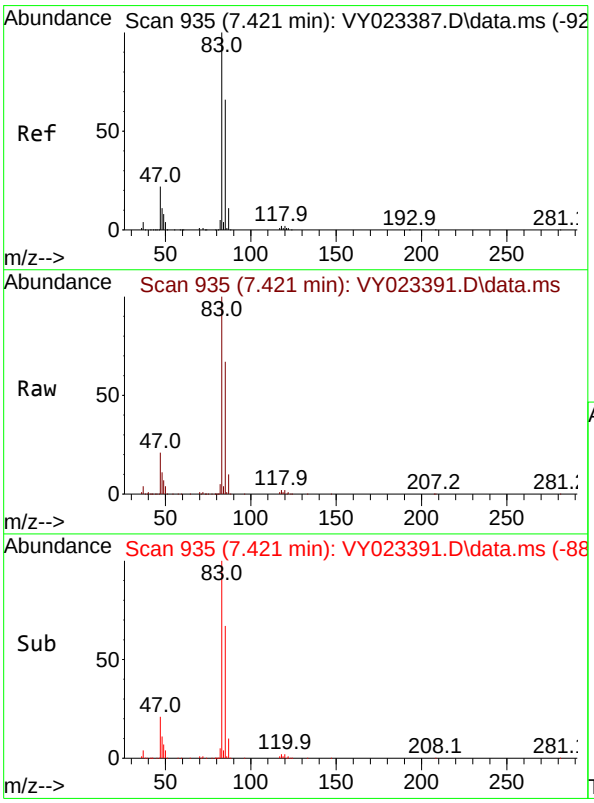
Ion	Ratio	Lower	Upper
42	100		
72	54.6	43.0	64.6
71	51.1	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

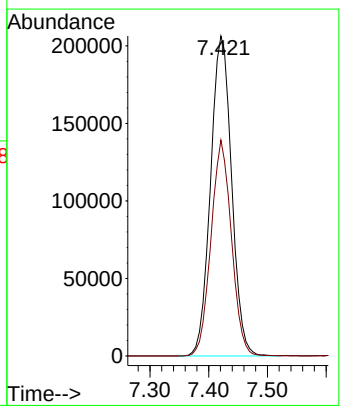
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

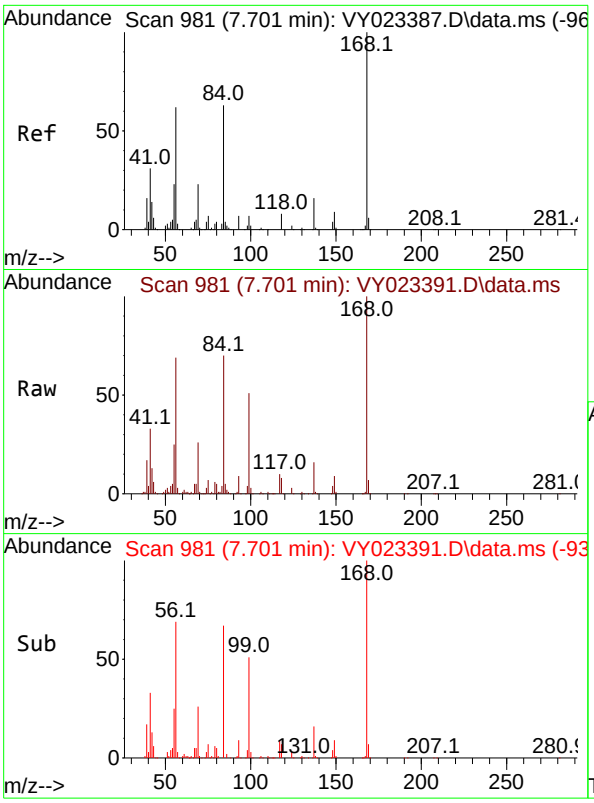


#30
Chloroform
Concen: 51.137 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 83 Resp: 513997

Ion	Ratio	Lower	Upper
83	100		
85	67.5	52.5	78.7

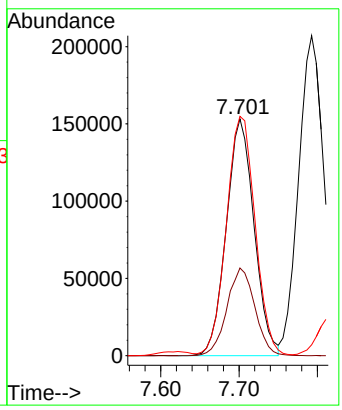




#31
Cyclohexane
Concen: 47.416 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 56 Resp: 37881

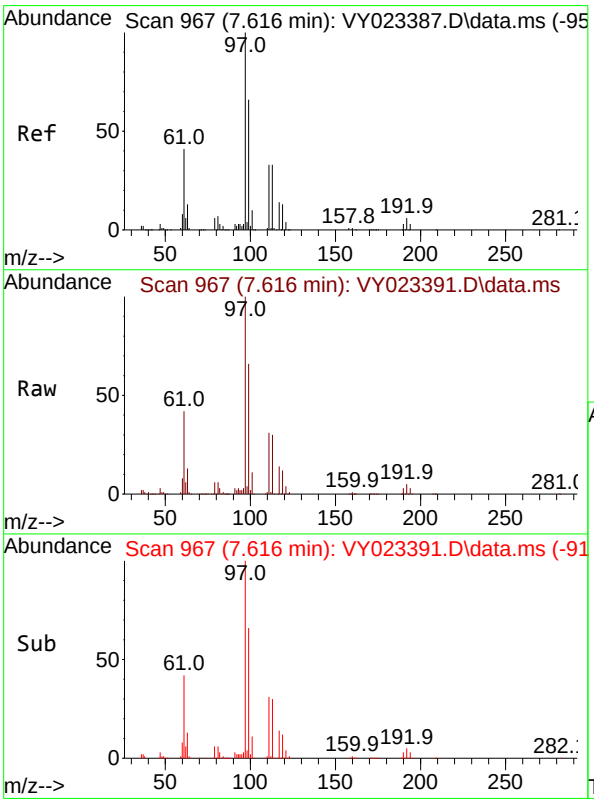
Ion	Ratio	Lower	Upper
56	100		
69	37.1	30.0	45.0
84	99.4	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

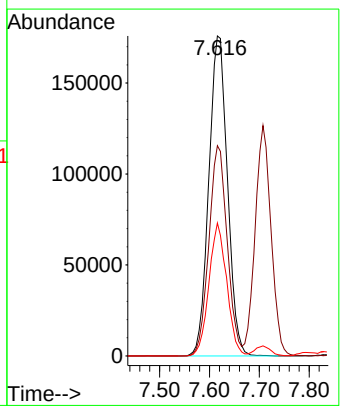
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

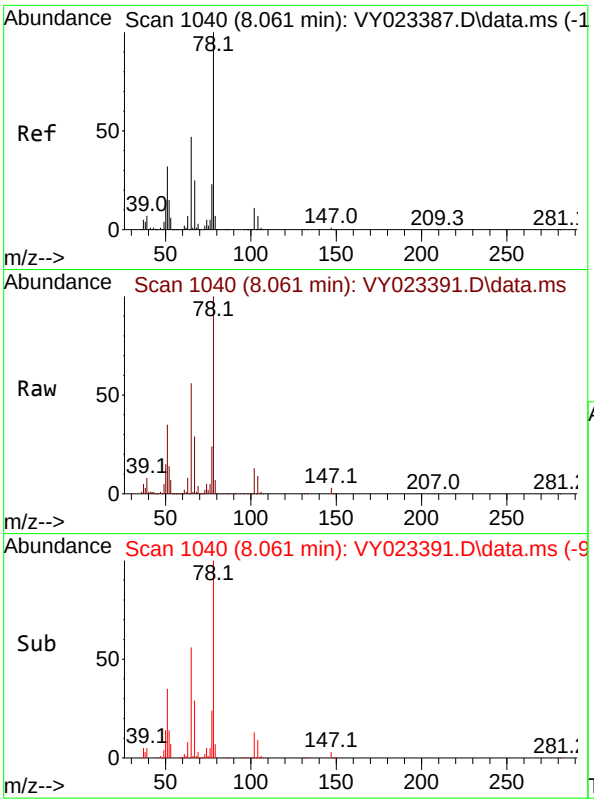


#32
1,1,1-Trichloroethane
Concen: 49.934 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 97 Resp: 456112

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.4	77.2
61	39.8	31.9	47.9

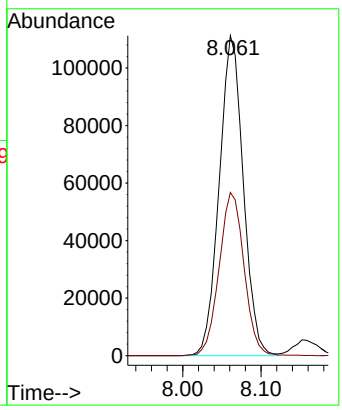




#33
1,2-Dichloroethane-d4
Concen: 49.450 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 65 Resp: 23749

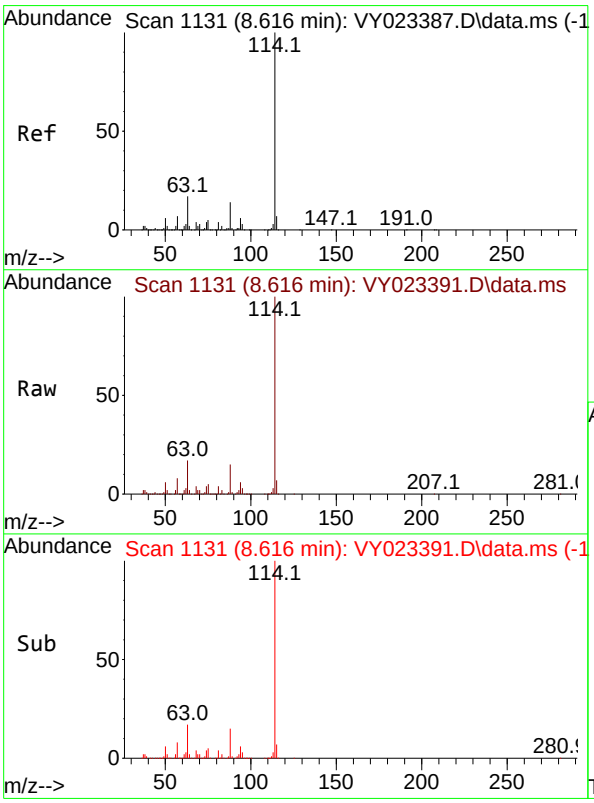
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

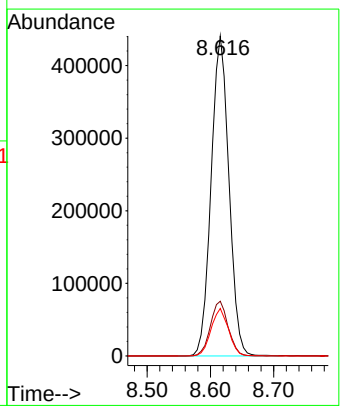
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

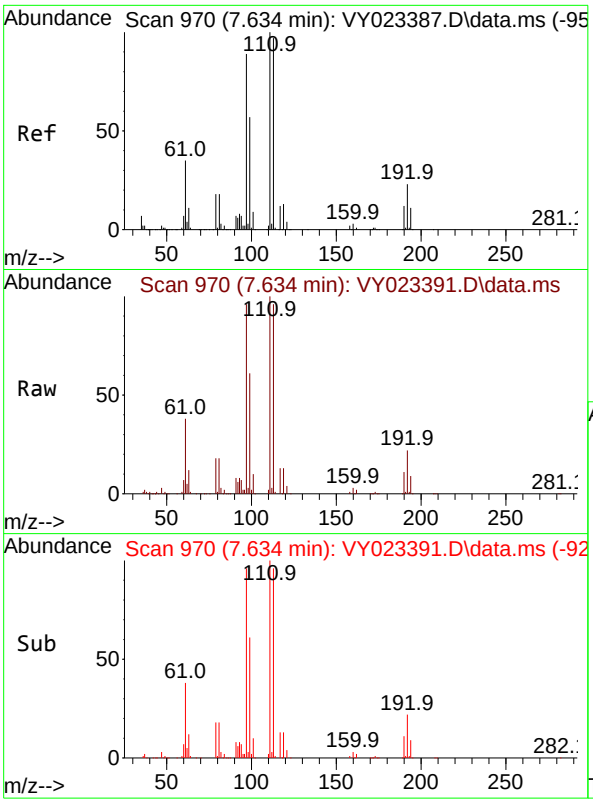


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:114 Resp: 861639

Ion	Ratio	Lower	Upper
114	100		
63	17.1	0.0	34.2
88	14.9	0.0	28.4

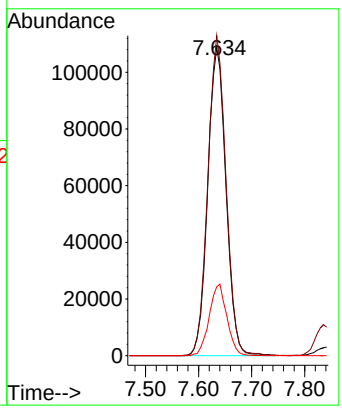




#35
Dibromofluoromethane
Concen: 49.116 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:113 Resp: 26003

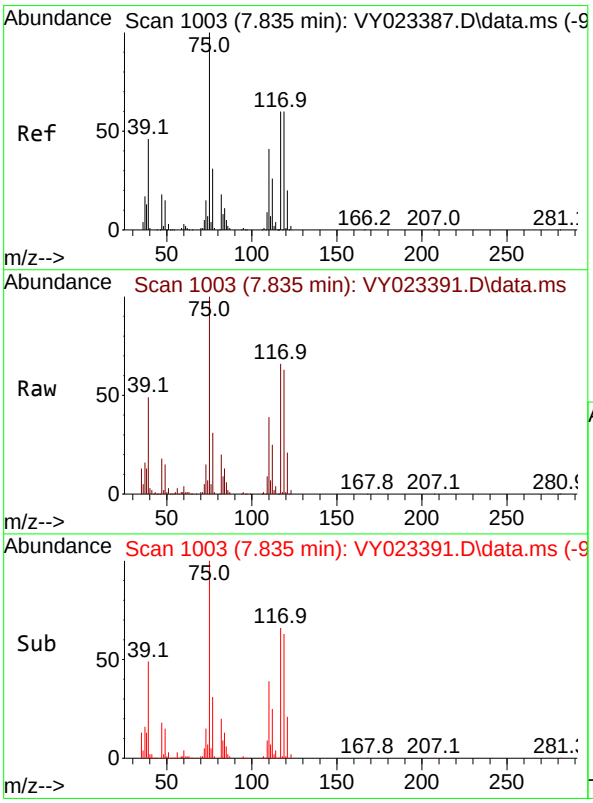
Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.8	122.6
192	22.5	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
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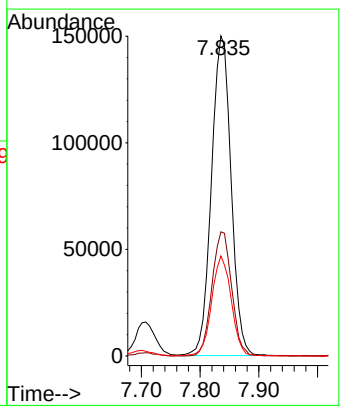
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

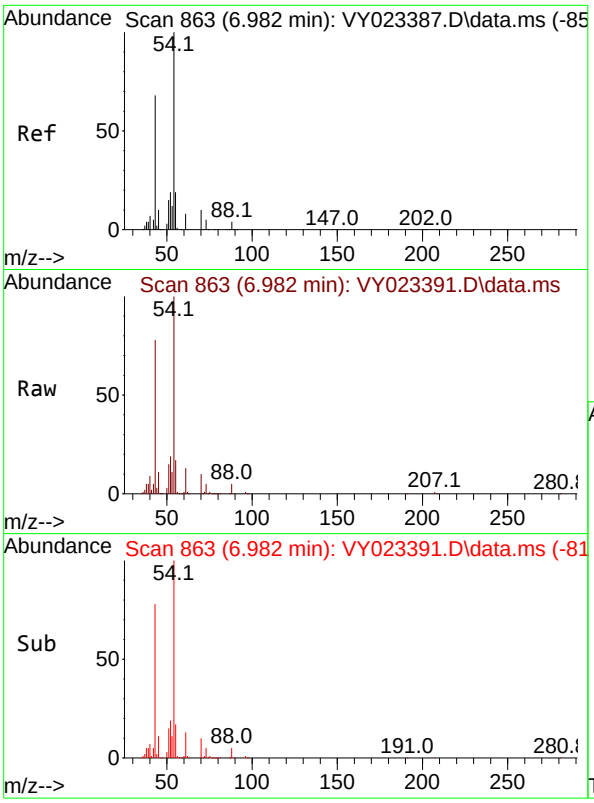


#36
1,1-Dichloropropene
Concen: 49.761 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 348786

Ion	Ratio	Lower	Upper
75	100		
110	38.9	19.9	59.7
77	31.0	25.0	37.6





#37
Ethyl Acetate
Concen: 49.740 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

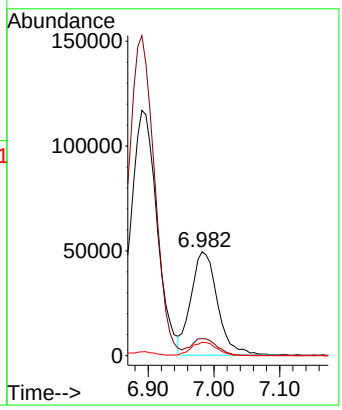
Tgt Ion: 43 Resp: 13811

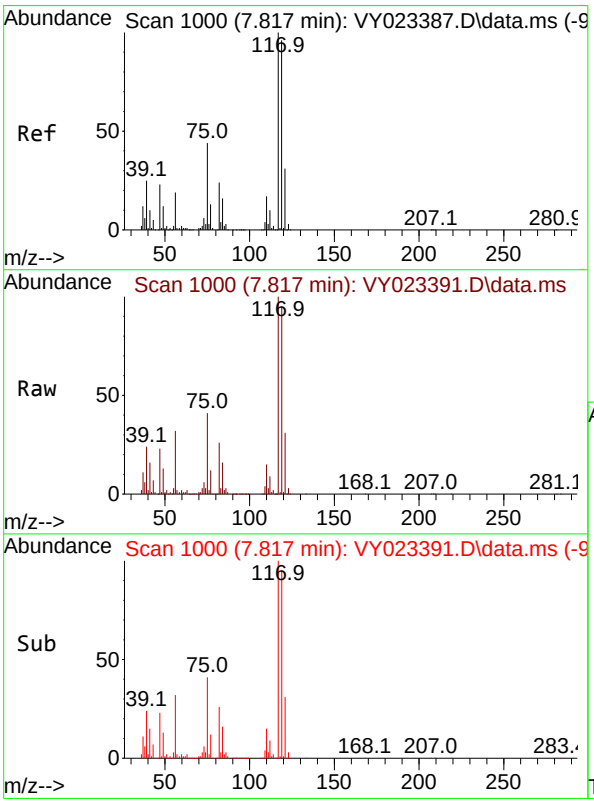
Ion	Ratio	Lower	Upper
43	100		
61	15.8	11.8	17.8
70	12.7	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

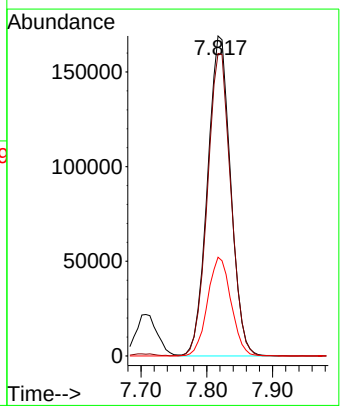


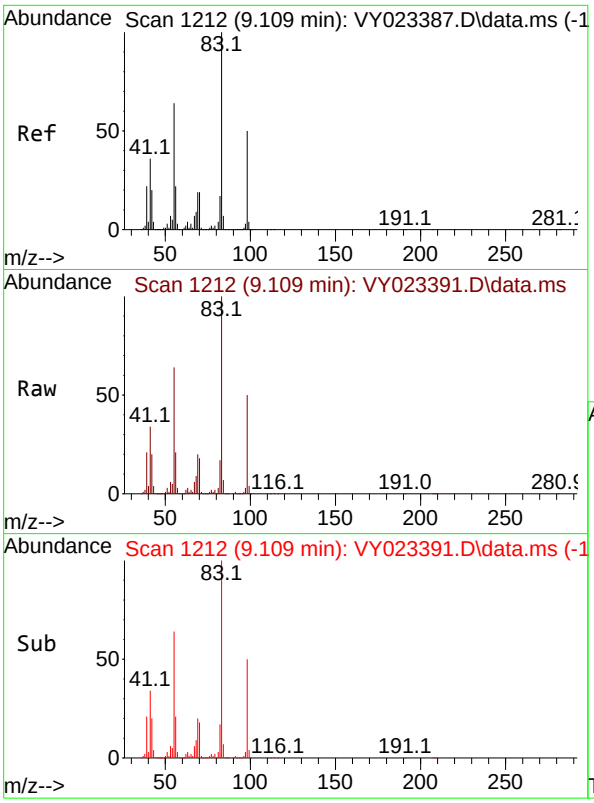


#38
Carbon Tetrachloride
Concen: 48.671 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:117 Resp: 413653

Ion	Ratio	Lower	Upper
117	100		
119	94.5	76.8	115.2
121	30.8	24.5	36.7

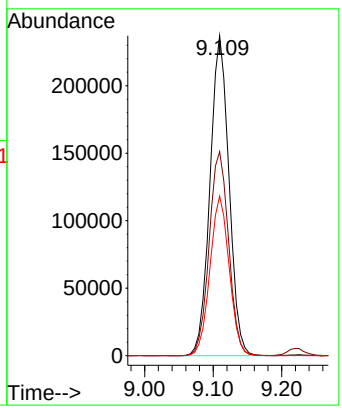




#39
Methylcyclohexane
Concen: 49.970 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 83 Resp: 45603

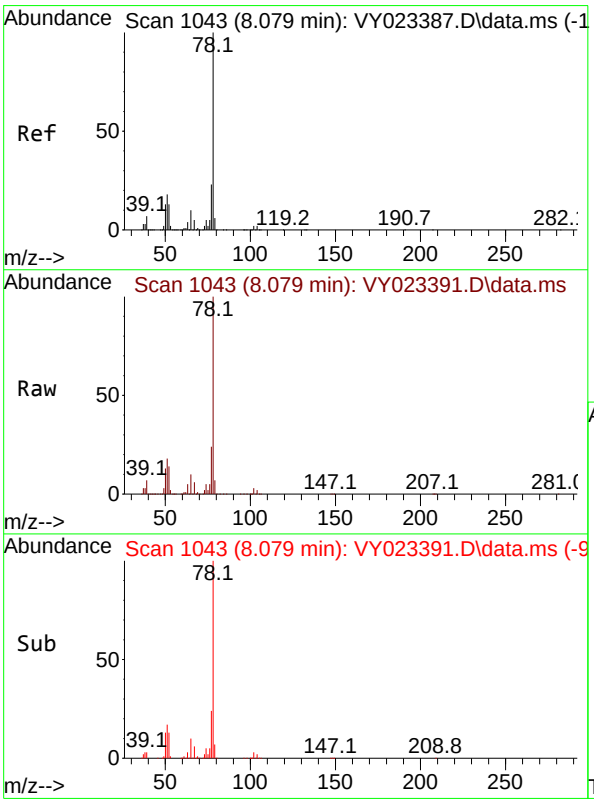
Ion	Ratio	Lower	Upper
83	100		
55	63.8	51.4	77.2
98	49.9	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

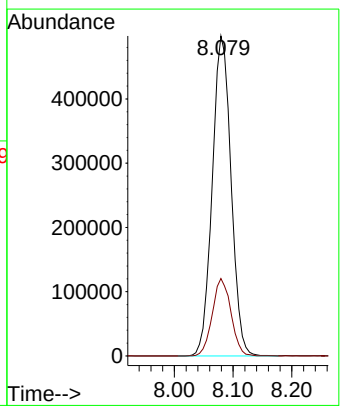
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

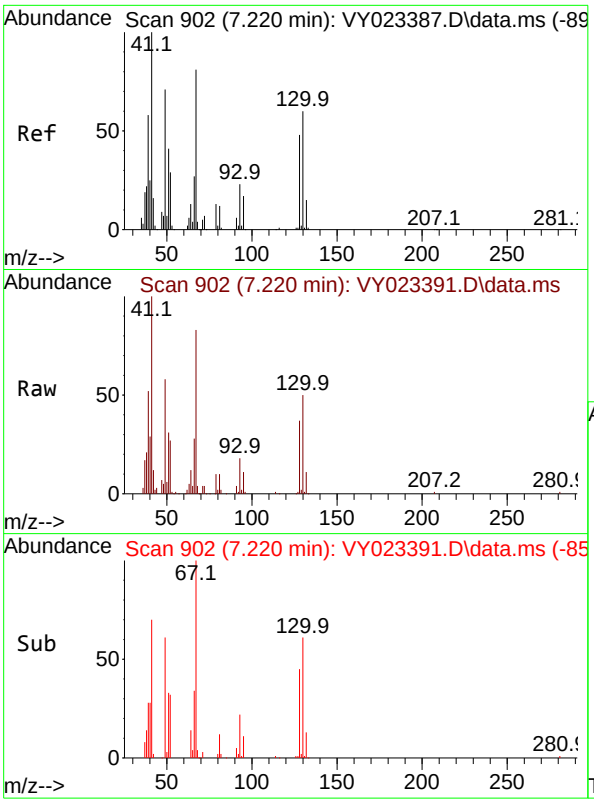


#40
Benzene
Concen: 49.906 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 78 Resp: 1107790

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.3	27.5

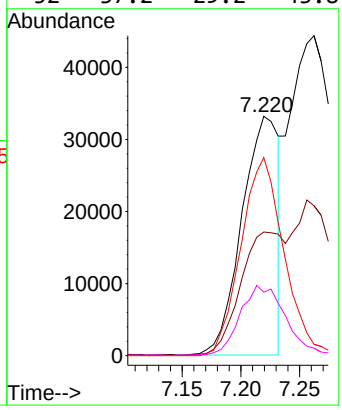




#41
Methacrylonitrile
Concen: 48.008 ug/l
RT: 7.220 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 41 Resp: 7210

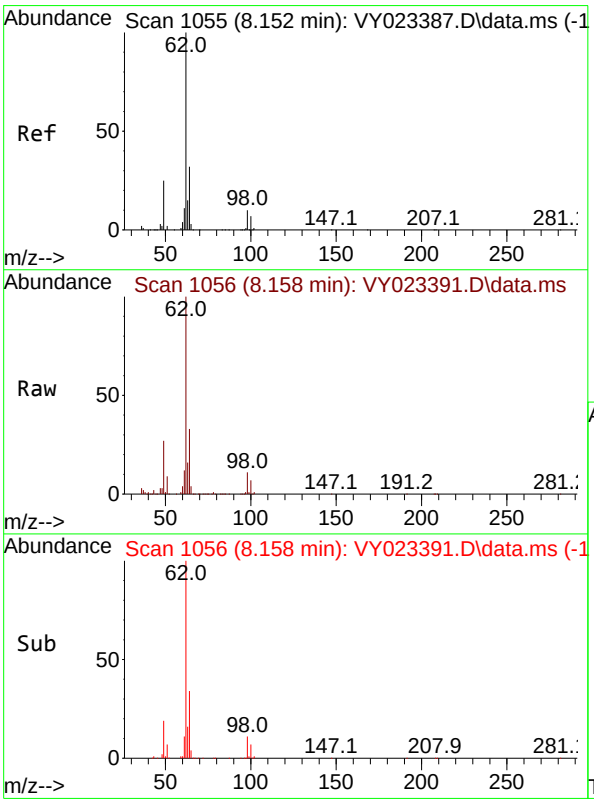
Ion	Ratio	Lower	Upper
41	100		
39	62.2	52.2	78.4
67	97.9	74.9	112.3
52	37.2	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

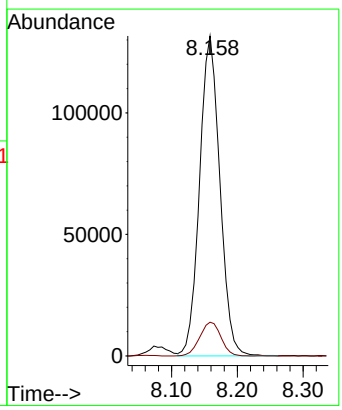
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

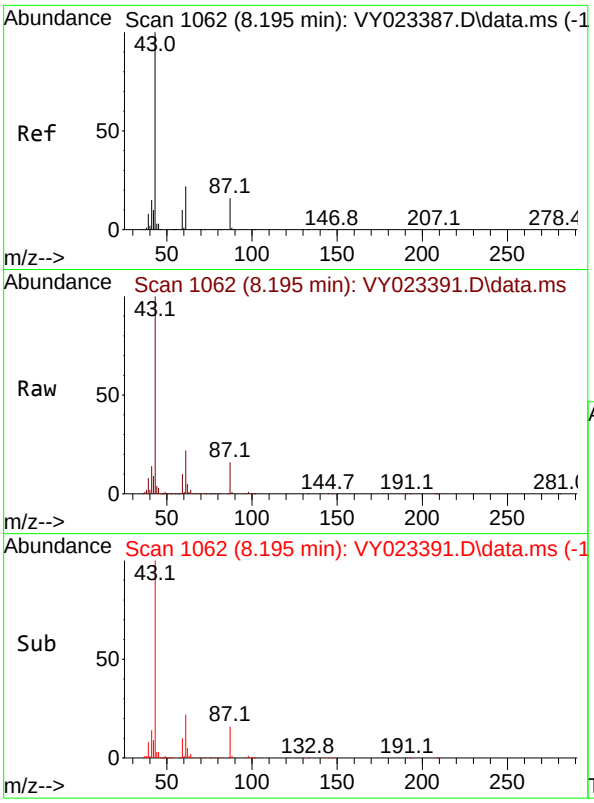


#42
1,2-Dichloroethane
Concen: 49.318 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 62 Resp: 282332

Ion	Ratio	Lower	Upper
62	100		
98	11.1	0.0	21.6

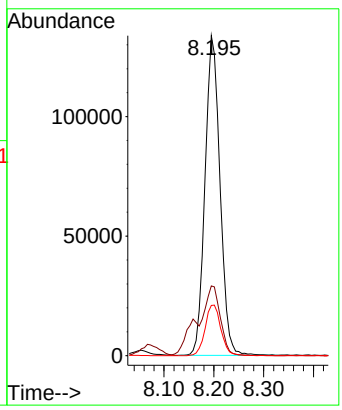




#43
Isopropyl Acetate
Concen: 50.548 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 27988

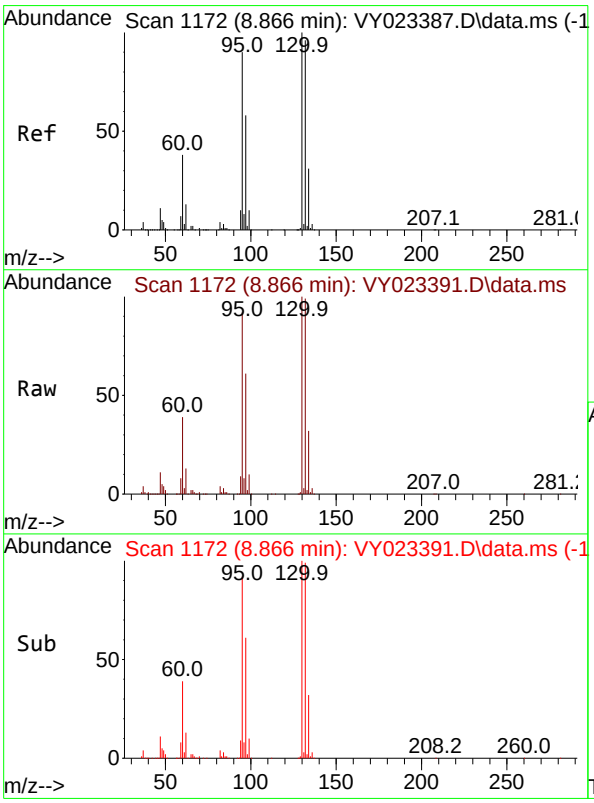
Ion	Ratio	Lower	Upper
43	100		
61	22.8	18.1	27.1
87	16.7	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

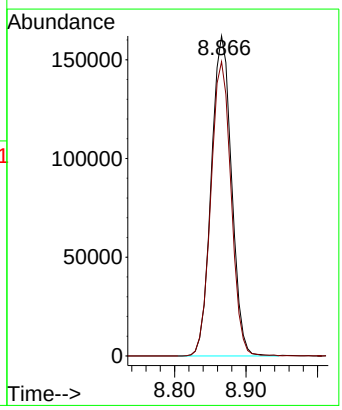
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

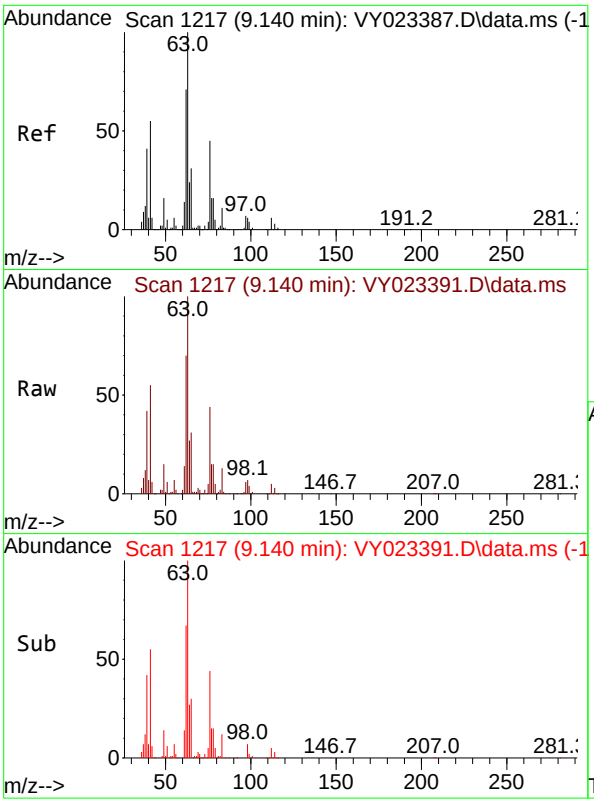


#44
Trichloroethene
Concen: 49.120 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:130 Resp: 319131

Ion	Ratio	Lower	Upper
130	100		
95	91.9	0.0	180.6

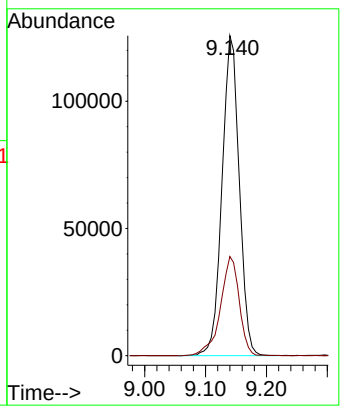




#45
1,2-Dichloropropane
Concen: 50.355 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 63 Resp: 24688

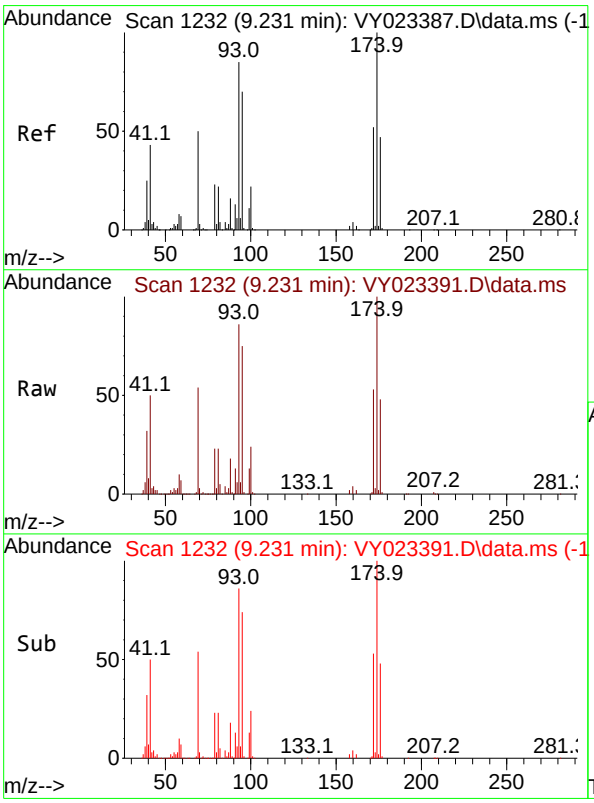
Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

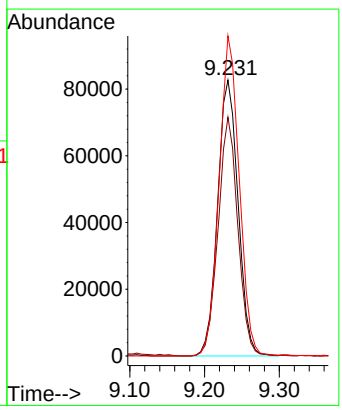
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

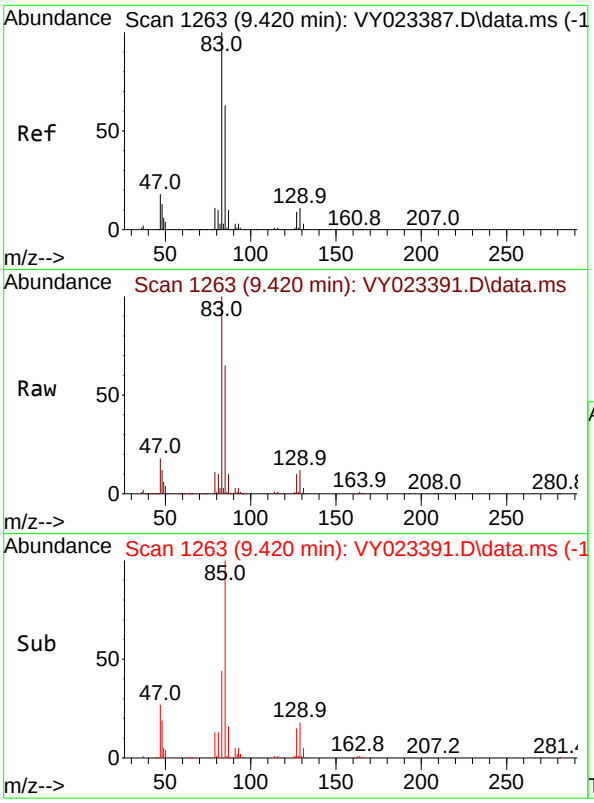


#46
Dibromomethane
Concen: 50.885 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 93 Resp: 157758

Ion	Ratio	Lower	Upper
93	100		
95	83.6	65.4	98.0
174	113.9	92.9	139.3

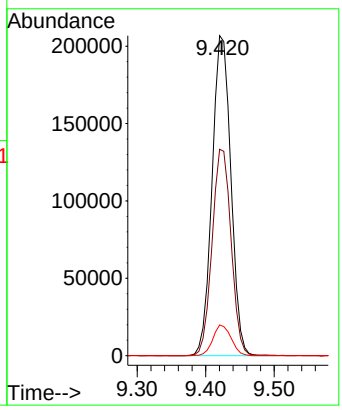




#47
Bromodichloromethane
Concen: 50.450 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 83 Resp: 39391

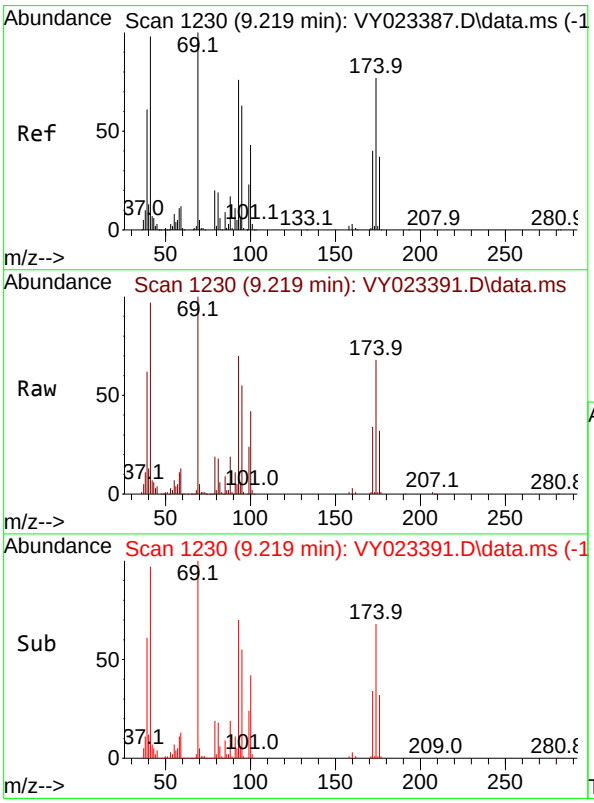
Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.8	76.2
127	9.6	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

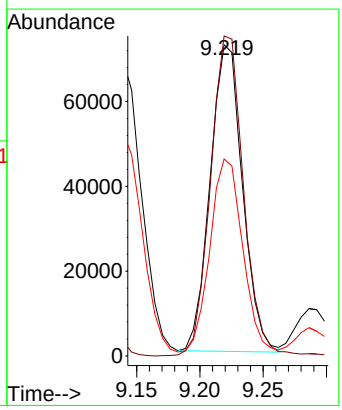
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

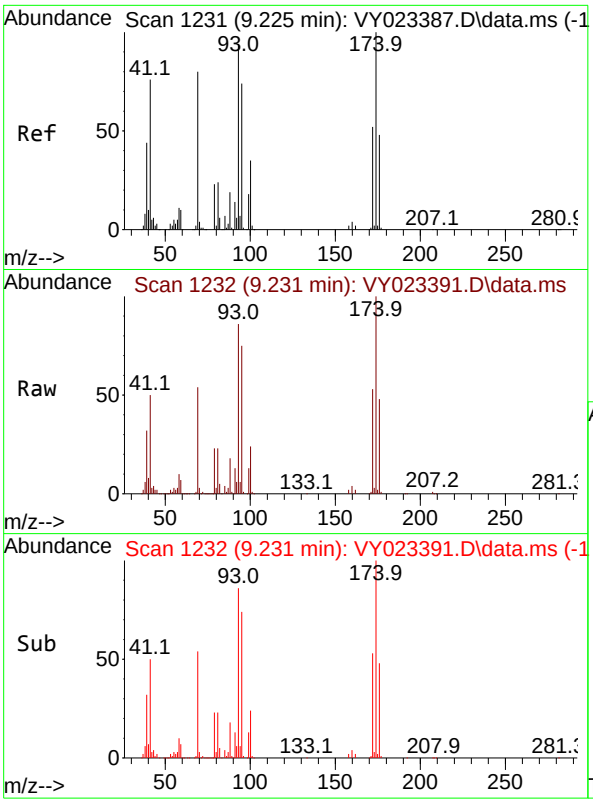


#48
Methyl methacrylate
Concen: 49.440 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 41 Resp: 128606

Ion	Ratio	Lower	Upper
41	100		
69	106.6	81.0	121.4
39	63.5	48.2	72.4

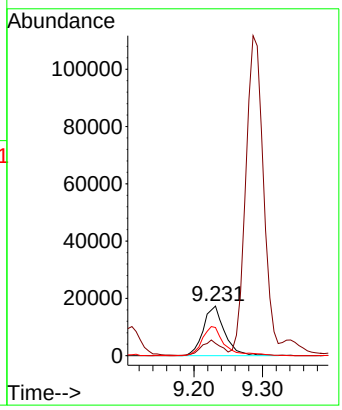




#49
1,4-Dioxane
Concen: 1039.252 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 88 Resp: 3735

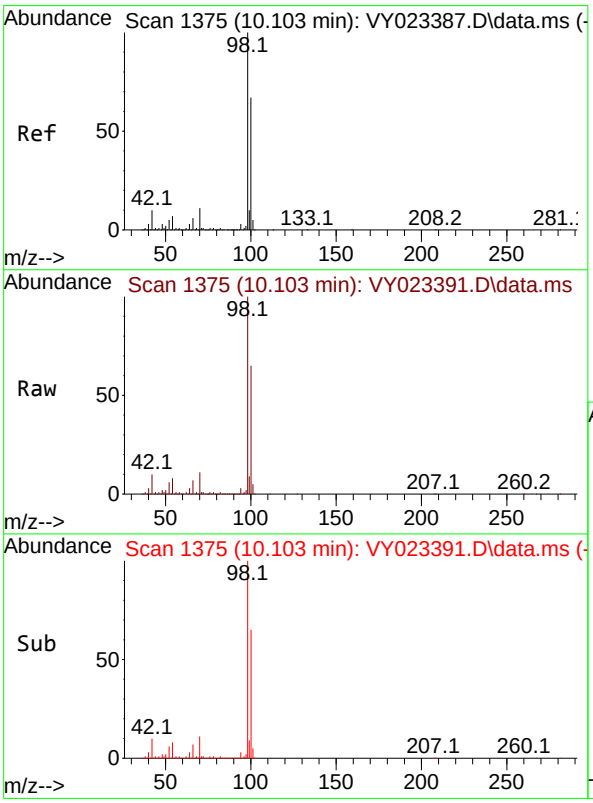
Ion	Ratio	Lower	Upper
88	100		
43	27.4	21.8	32.8
58	61.4	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

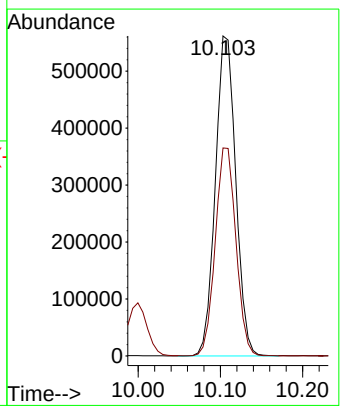
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

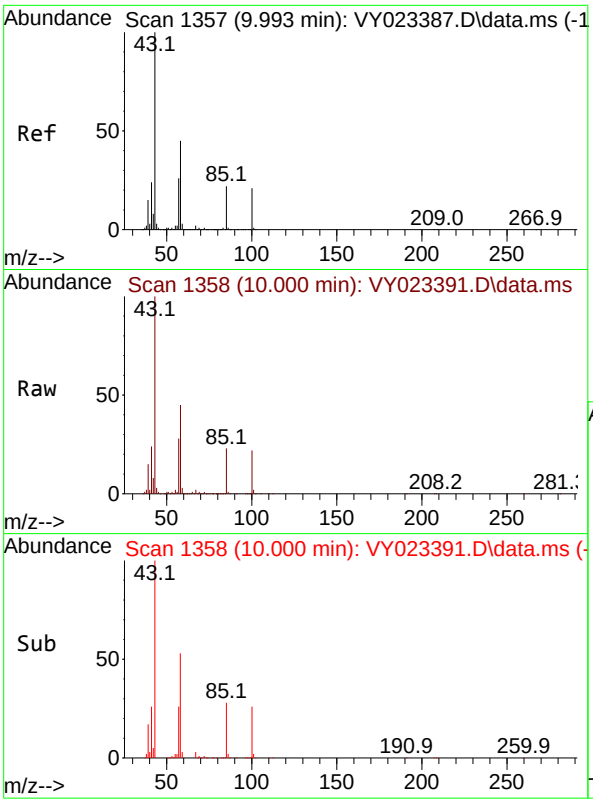


#50
Toluene-d8
Concen: 49.228 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 98 Resp: 970614

Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.0	79.4

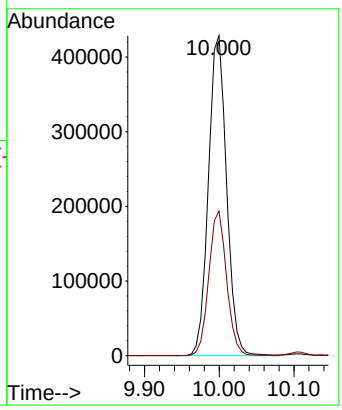




#51
4-Methyl-2-Pentanone
Concen: 253.421 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 72499

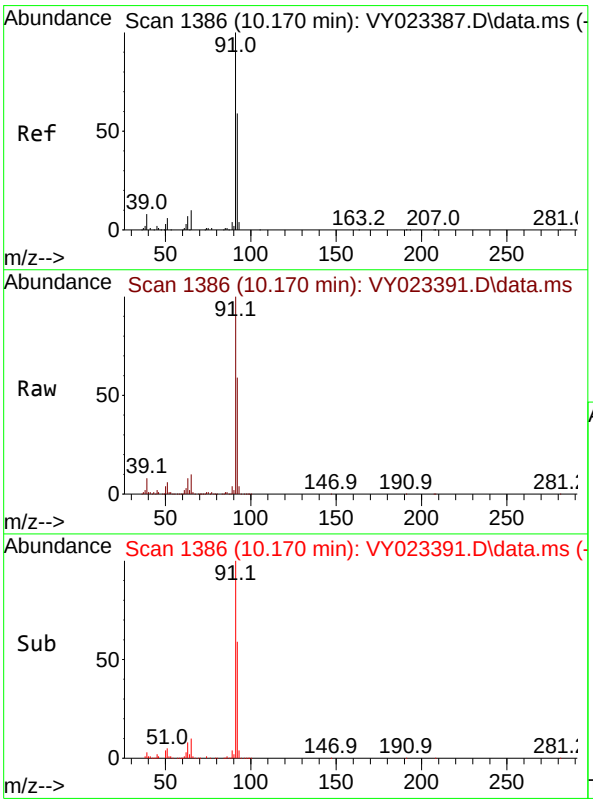
Ion	Ratio	Lower	Upper
43	100		
58	44.4	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

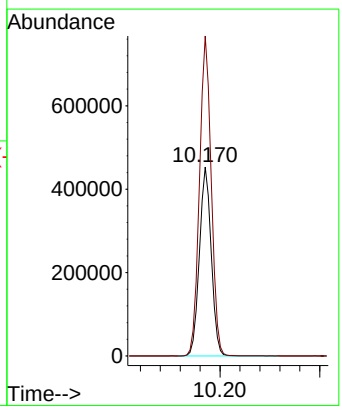
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

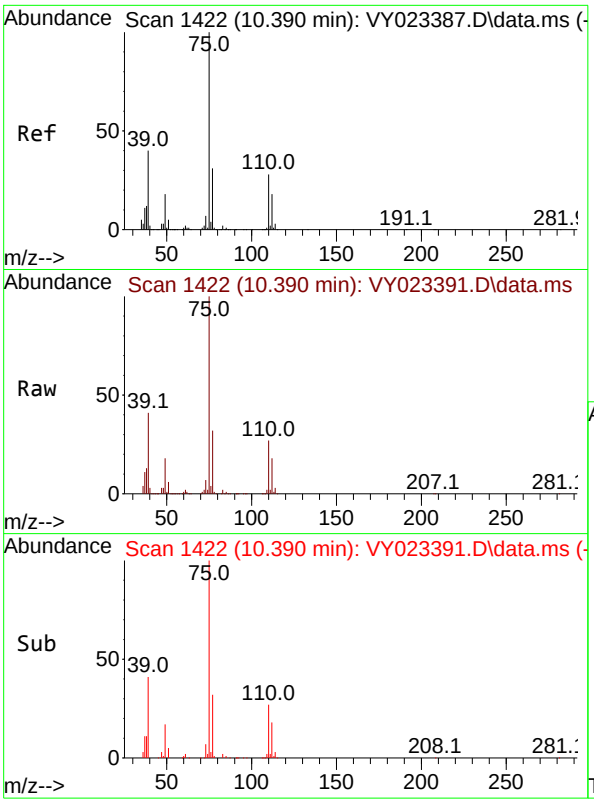


#52
Toluene
Concen: 51.556 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 92 Resp: 743055

Ion	Ratio	Lower	Upper
92	100		
91	168.9	136.4	204.6

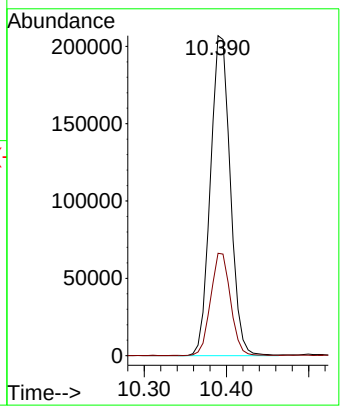




#53
t-1,3-Dichloropropene
Concen: 51.160 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 34733

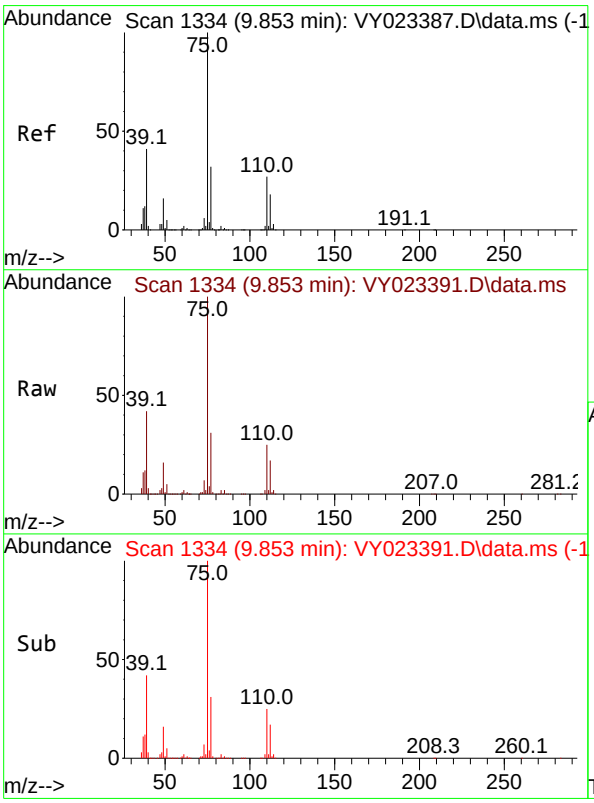
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

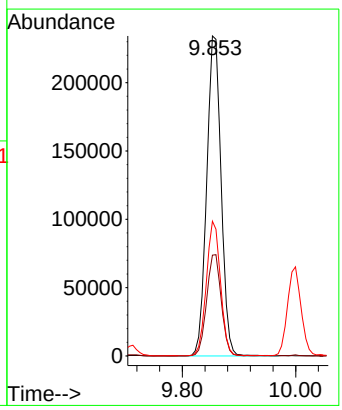
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

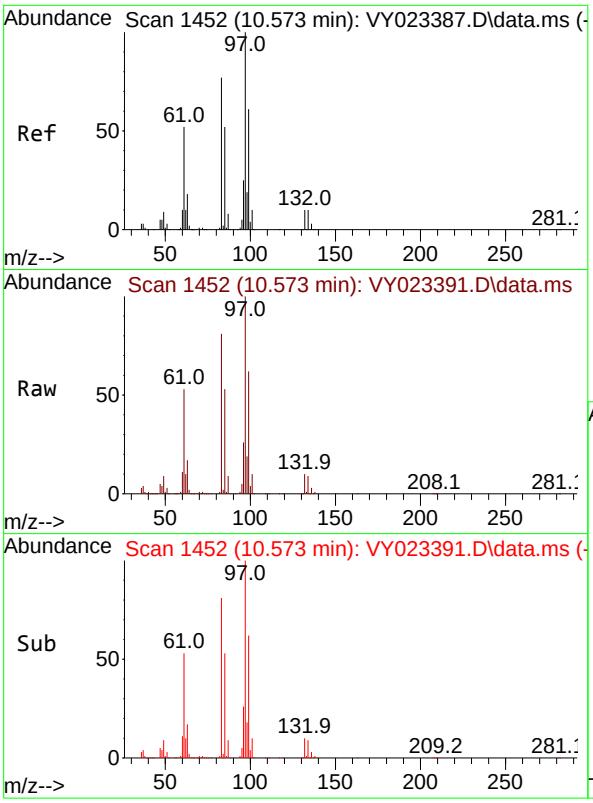


#54
cis-1,3-Dichloropropene
Concen: 51.649 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 413860

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.4	38.0
39	42.1	32.8	49.2

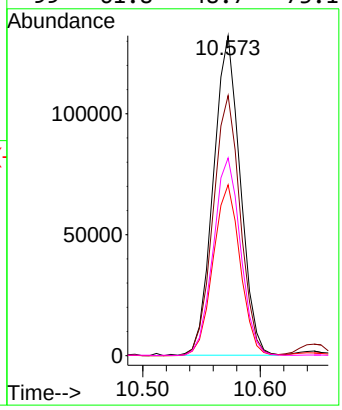




#55
1,1,2-Trichloroethane
Concen: 50.430 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 97 Resp: 21024

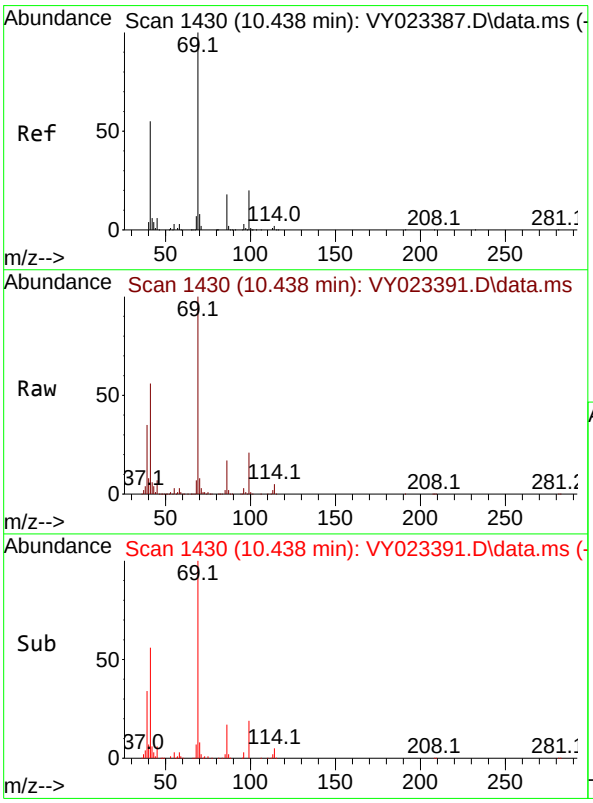
Ion	Ratio	Lower	Upper
97	100		
83	81.4	61.8	92.6
85	53.5	41.3	61.9
99	61.8	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

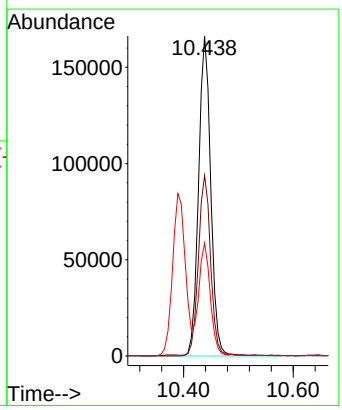
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

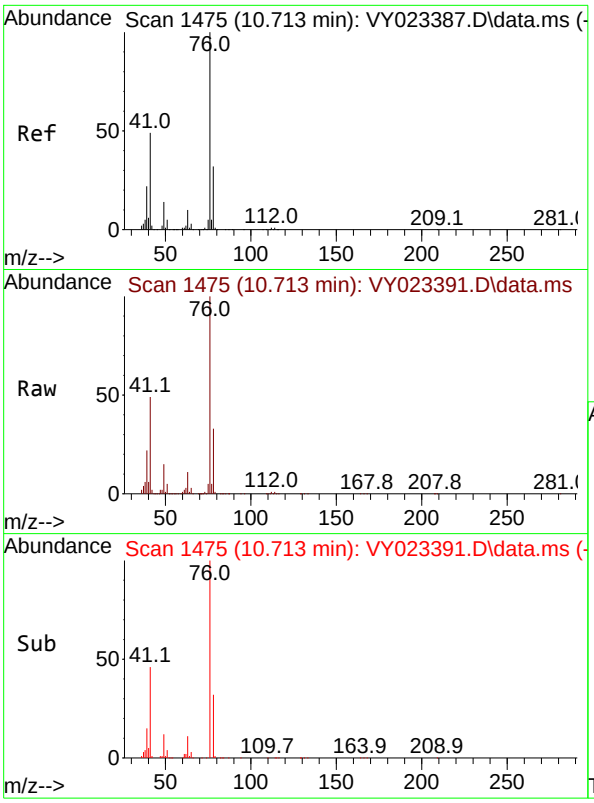


#56
Ethyl methacrylate
Concen: 53.385 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 69 Resp: 256731

Ion	Ratio	Lower	Upper
69	100		
41	56.1	44.6	67.0
39	34.2	27.0	40.4

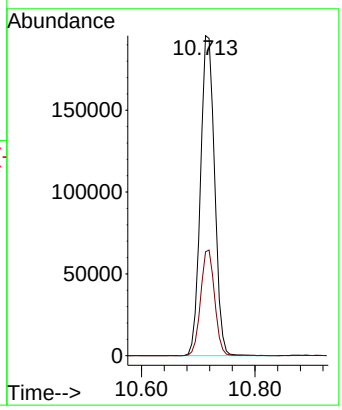




#57
1,3-Dichloropropane
Concen: 51.113 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 76 Resp: 33767

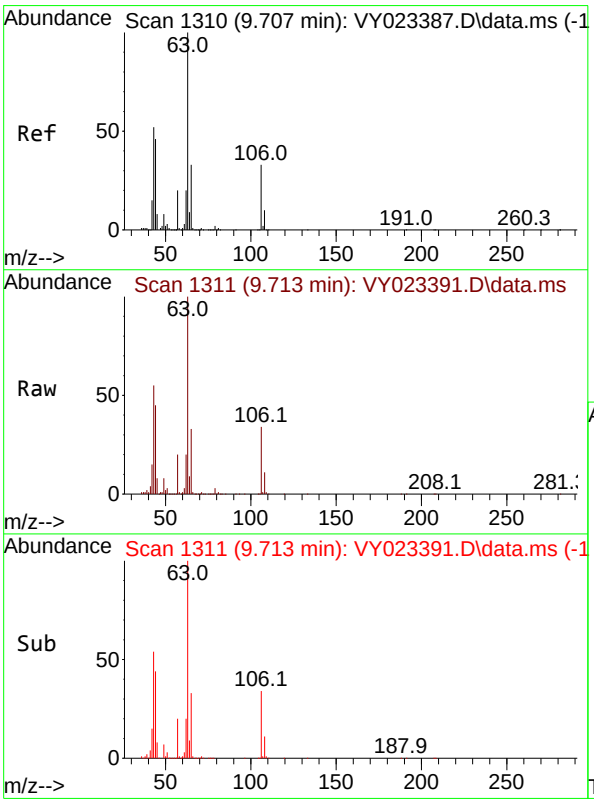
Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

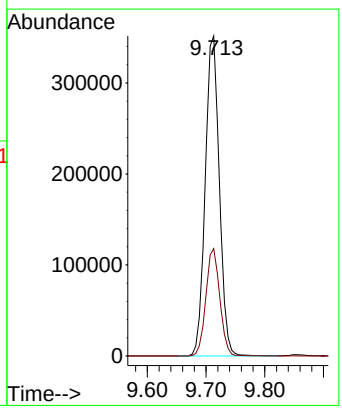
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

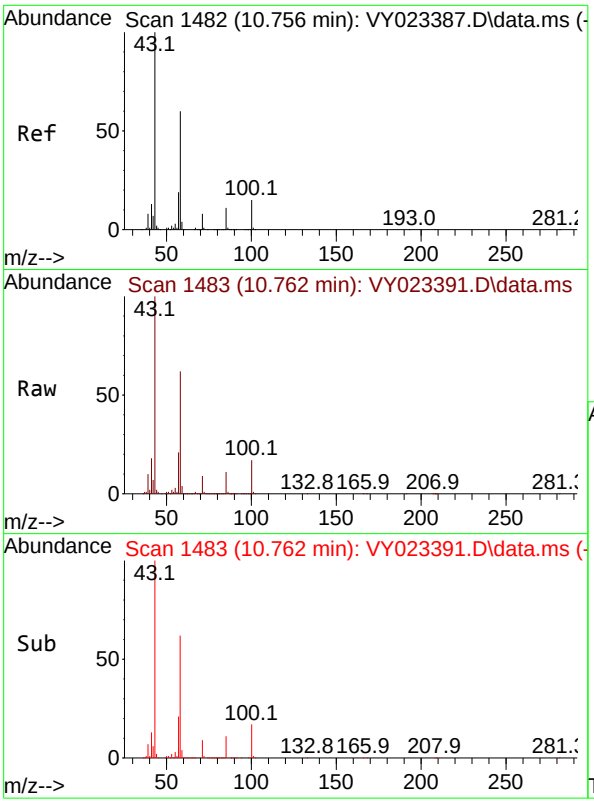


#58
2-Chloroethyl Vinyl ether
Concen: 272.133 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 63 Resp: 586266

Ion	Ratio	Lower	Upper
63	100		
106	33.2	26.6	39.8

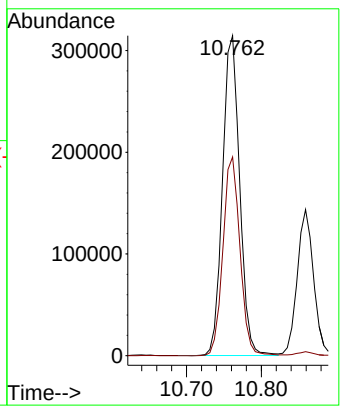




#59
2-Hexanone
Concen: 245.480 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 50187

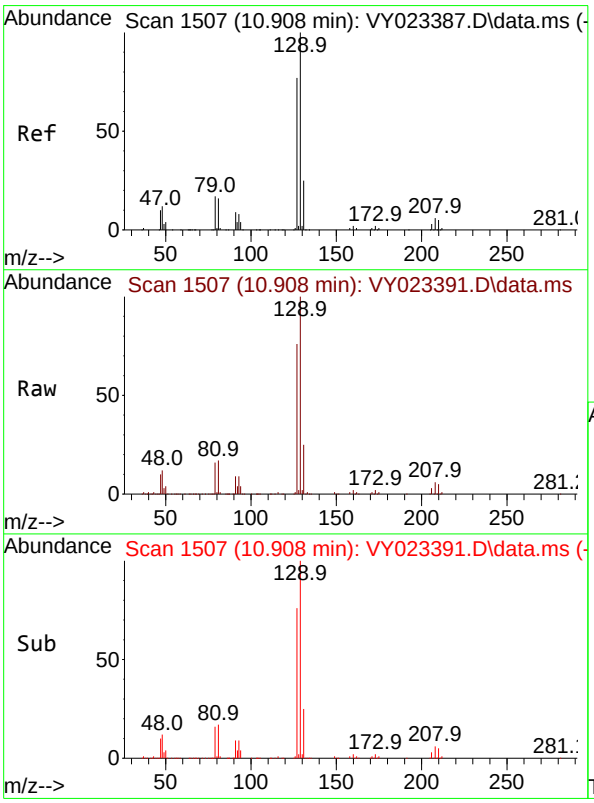
Ion	Ratio	Lower	Upper
43	100		
58	61.7	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

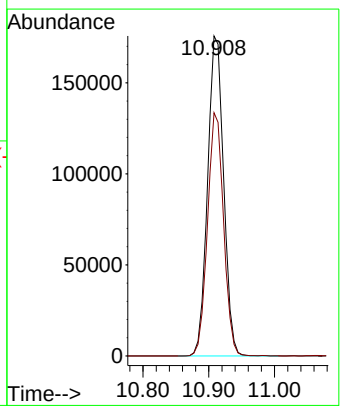
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

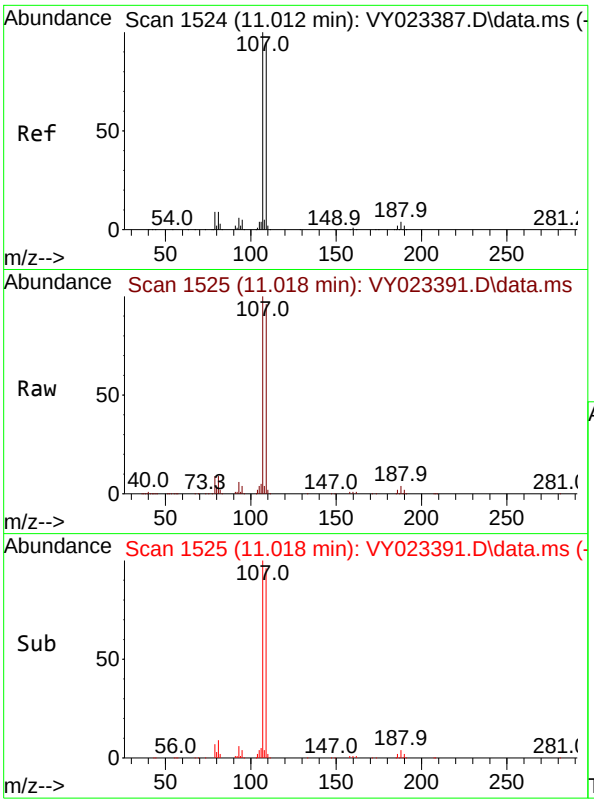


#60
Dibromochloromethane
Concen: 50.974 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:129 Resp: 297946

Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.6	115.7

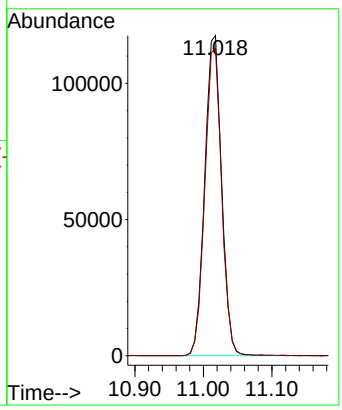




#61
1,2-Dibromoethane
Concen: 50.658 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:107 Resp: 20141

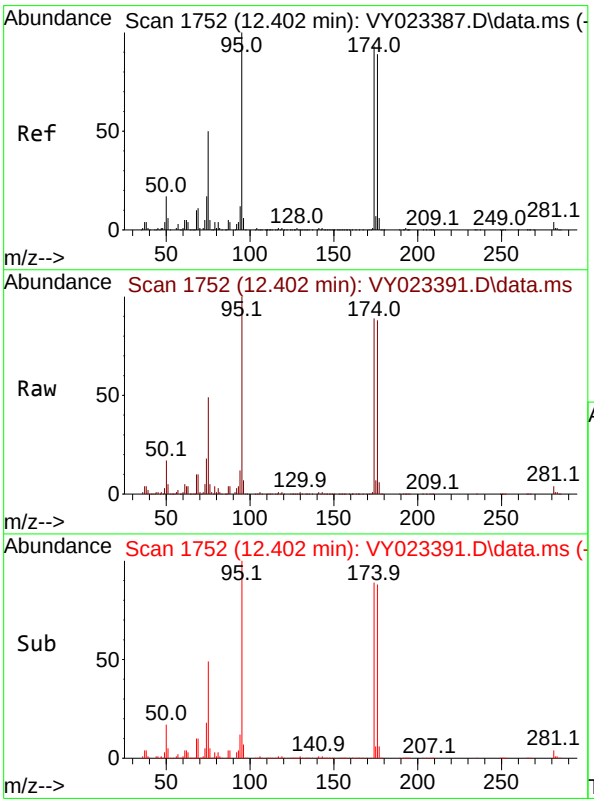
Ion	Ratio	Lower	Upper
107	100		
109	95.4	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

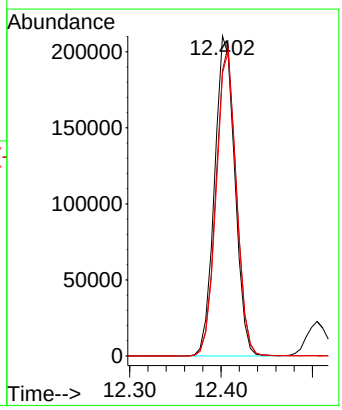
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

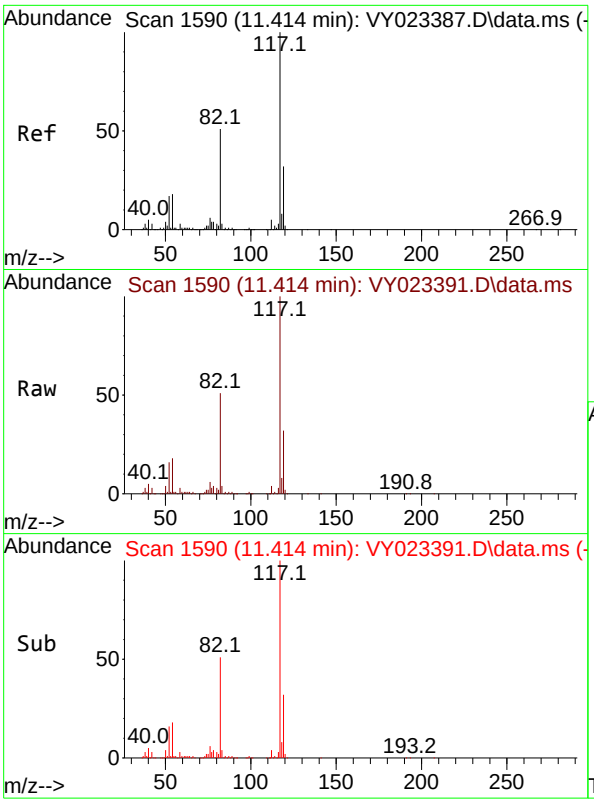


#62
4-Bromofluorobenzene
Concen: 49.881 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 95 Resp: 324700

Ion	Ratio	Lower	Upper
95	100		
174	96.3	0.0	192.8
176	93.9	0.0	187.6

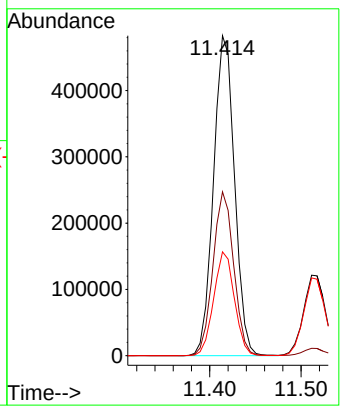




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:117 Resp: 77137

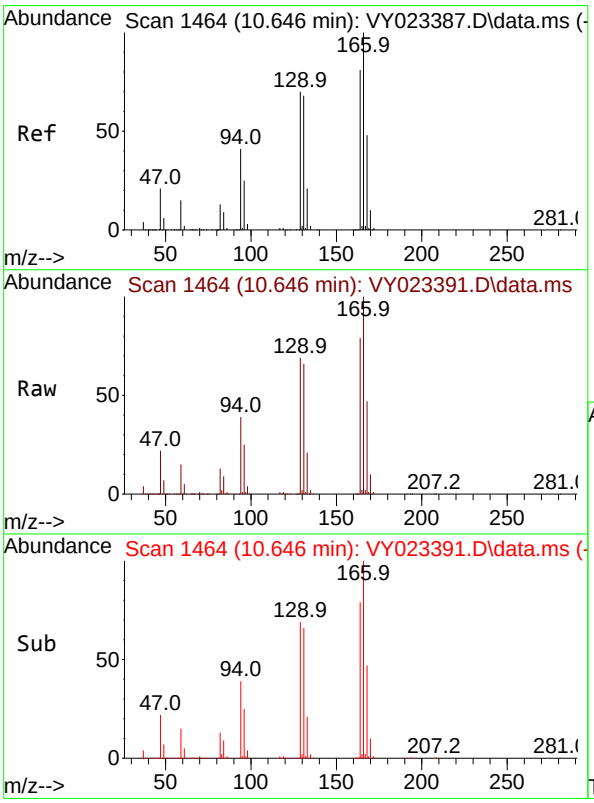
Ion	Ratio	Lower	Upper
117	100		
82	51.2	41.0	61.4
119	32.5	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

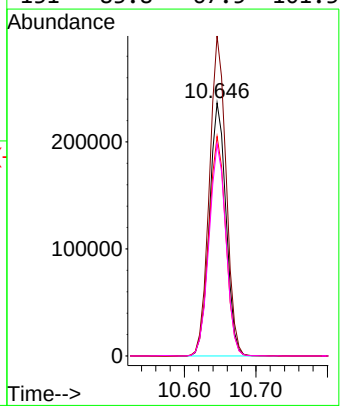
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

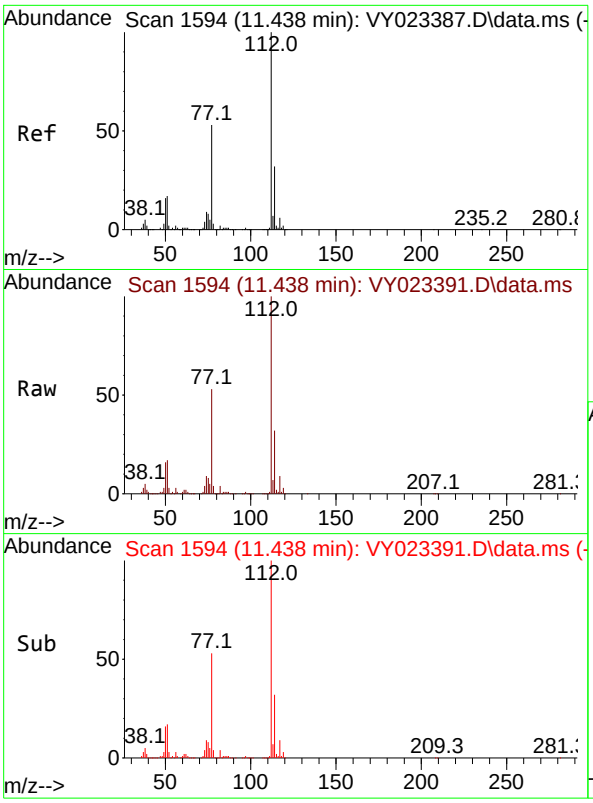


#64
Tetrachloroethene
Concen: 48.087 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:164 Resp: 382998

Ion	Ratio	Lower	Upper
164	100		
166	126.4	99.4	149.0
129	86.7	69.4	104.2
131	83.8	67.5	101.3

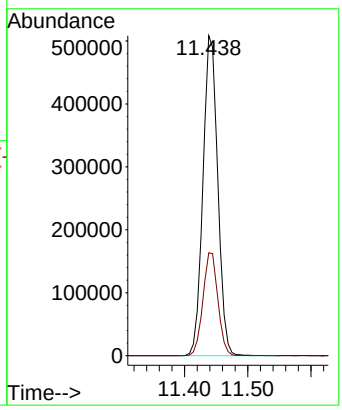




#65
Chlorobenzene
Concen: 49.381 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:112 Resp: 82846

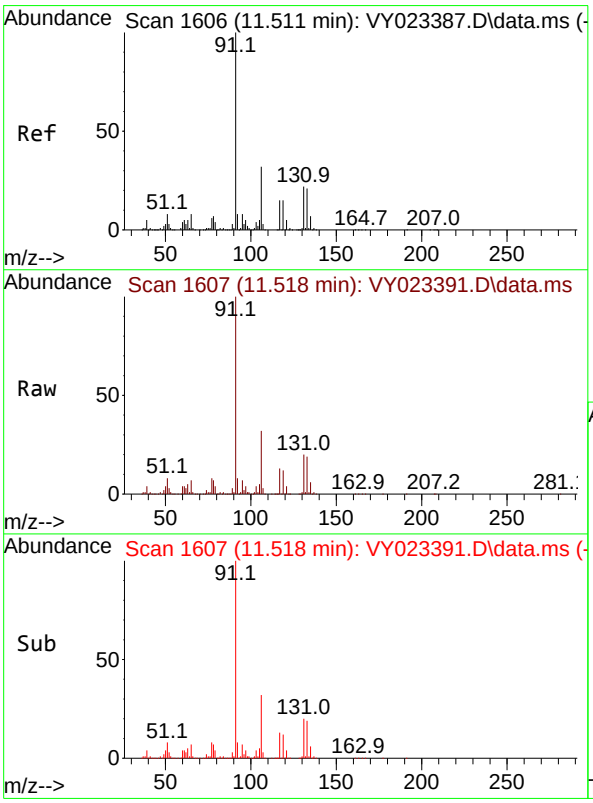
Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

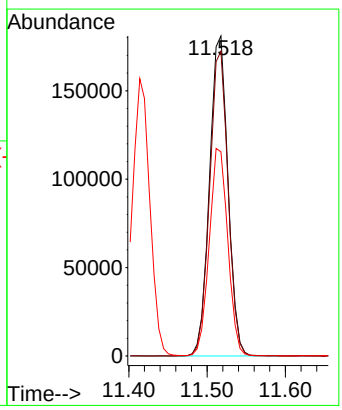
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

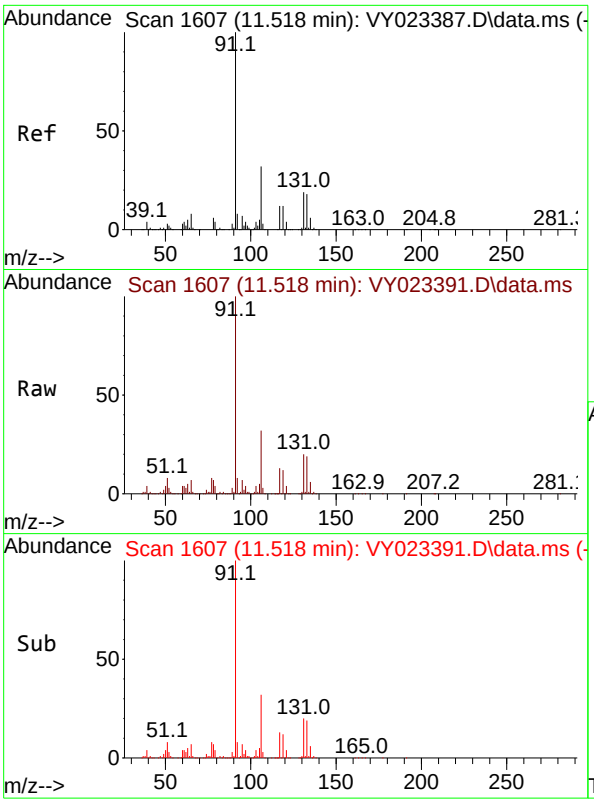


#66
1,1,1,2-Tetrachloroethane
Concen: 49.537 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:131 Resp: 296157

Ion	Ratio	Lower	Upper
131	100		
133	95.1	48.4	145.2
119	65.2	32.4	97.2

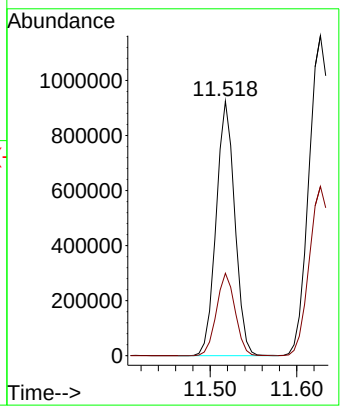




#67
Ethyl Benzene
Concen: 50.841 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 138069

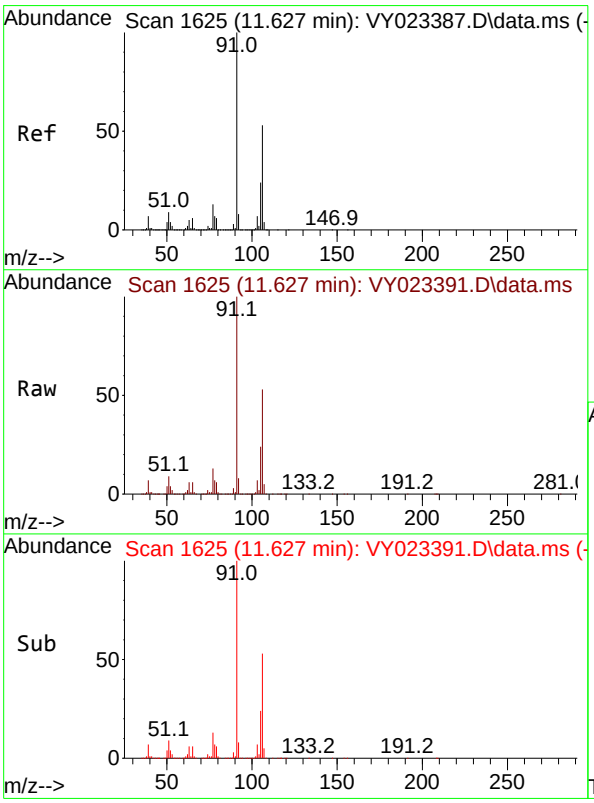
Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

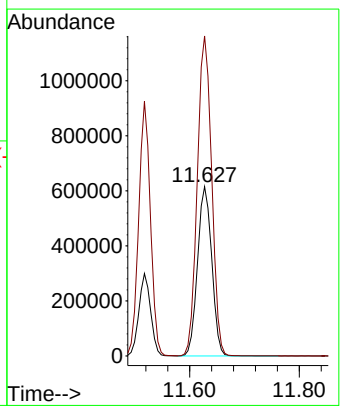
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

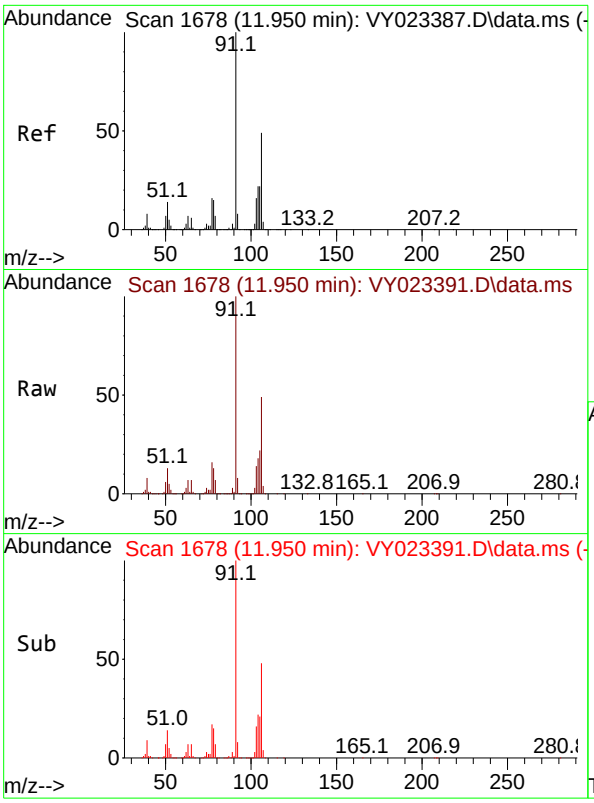


#68
m/p-Xylenes
Concen: 101.757 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:106 Resp: 1108386

Ion	Ratio	Lower	Upper
106	100		
91	190.7	152.6	229.0

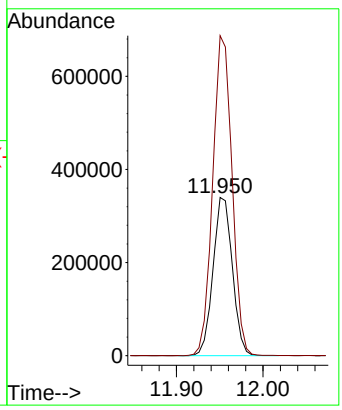




#69
o-Xylene
Concen: 51.577 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:106 Resp: 52695

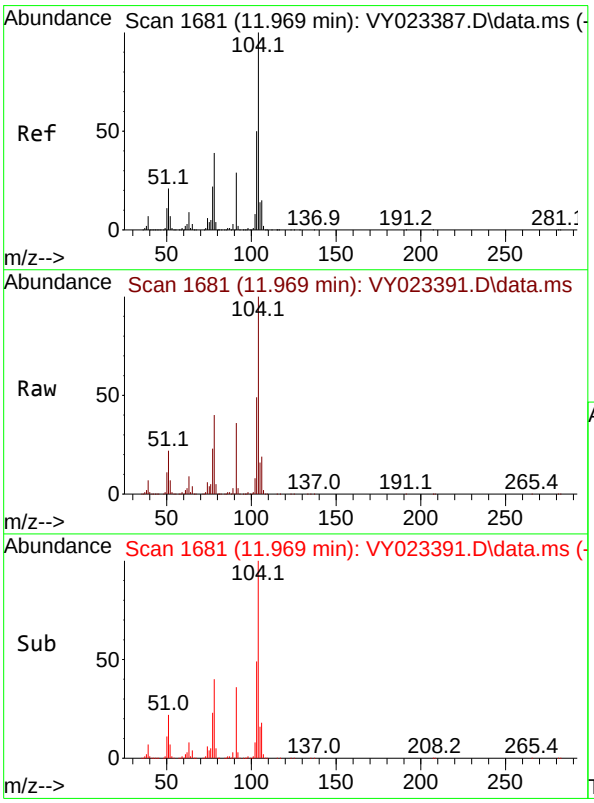
Ion	Ratio	Lower	Upper
106	100		
91	202.1	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

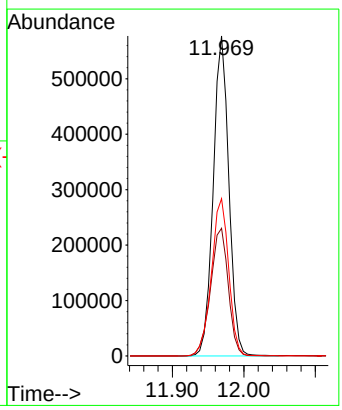
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

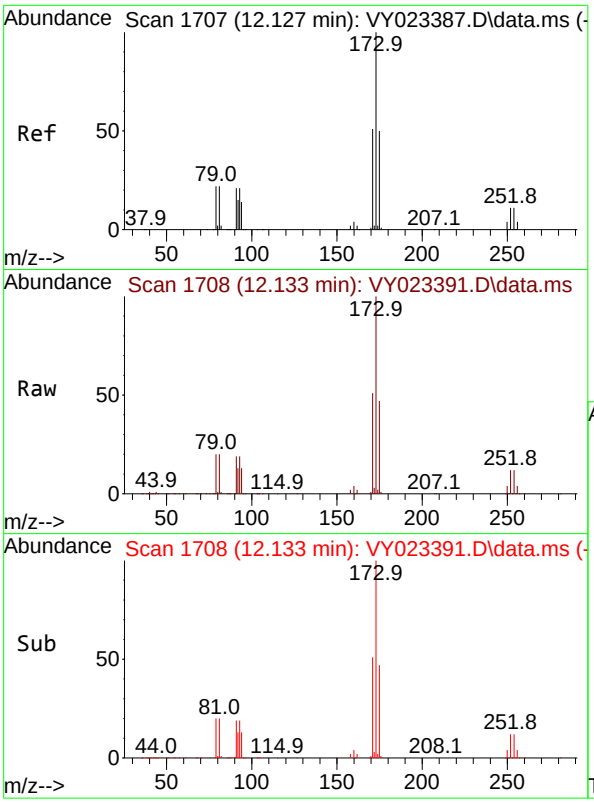


#70
Styrene
Concen: 52.122 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:104 Resp: 875709

Ion	Ratio	Lower	Upper
104	100		
78	45.3	36.1	54.1
103	54.2	43.2	64.8

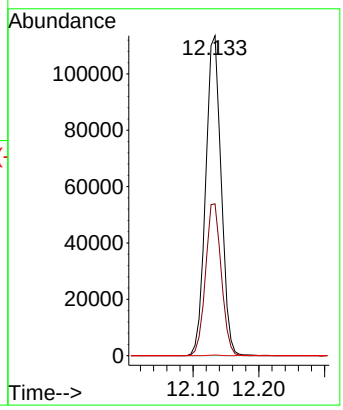




#71
Bromoform
Concen: 50.070 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:173 Resp: 18568

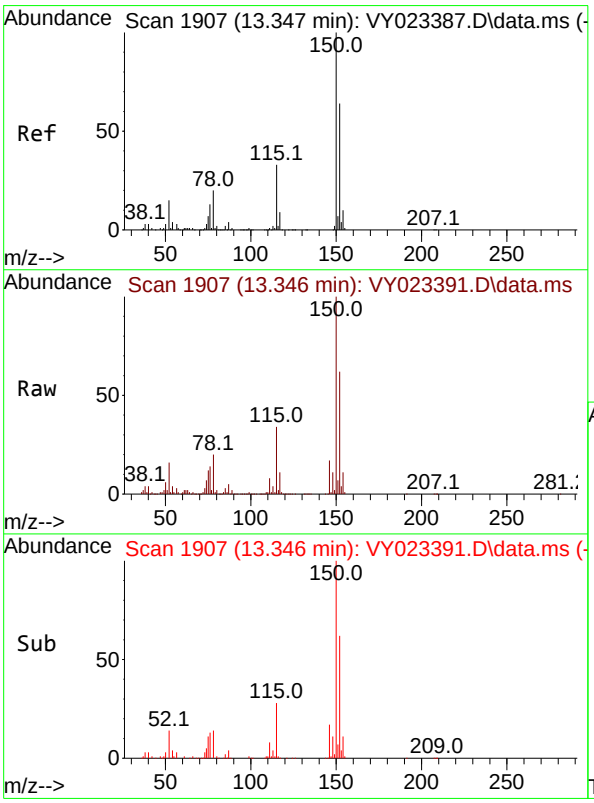
Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.8	74.3
254	0.2	0.1	0.1#



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

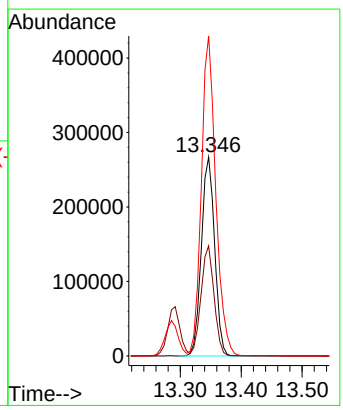
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

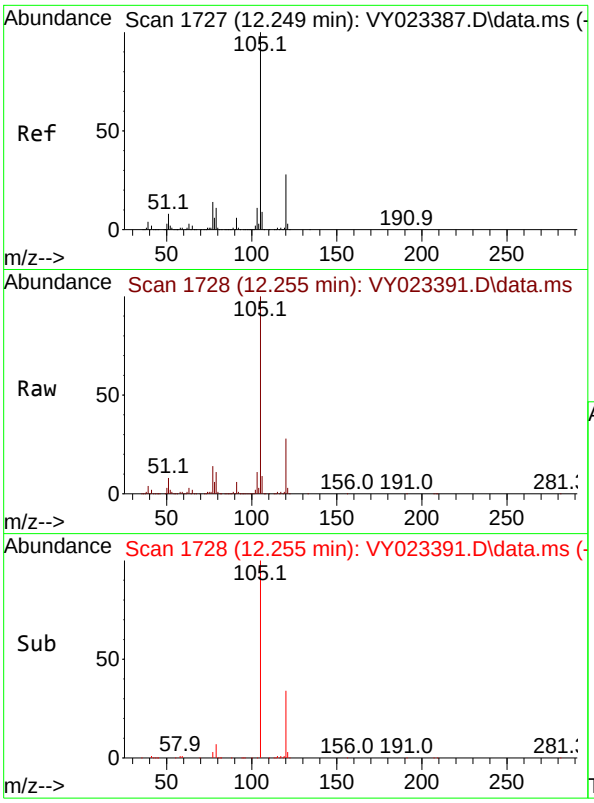


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:152 Resp: 405636

Ion	Ratio	Lower	Upper
152	100		
115	54.1	27.1	81.2
150	173.7	0.0	347.4

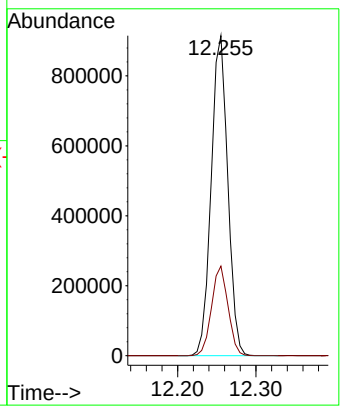




#73
Isopropylbenzene
Concen: 50.318 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:105 Resp: 134510

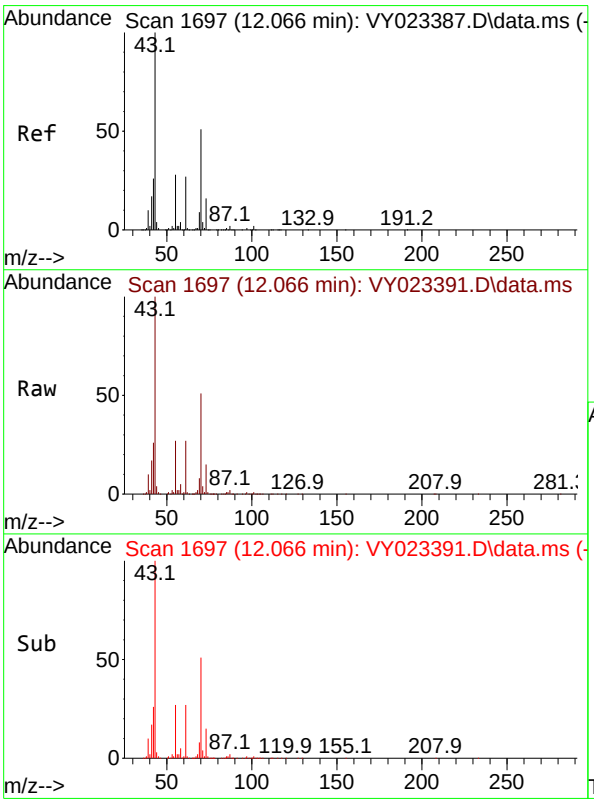
Ion	Ratio	Lower	Upper
105	100		
120	27.7	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

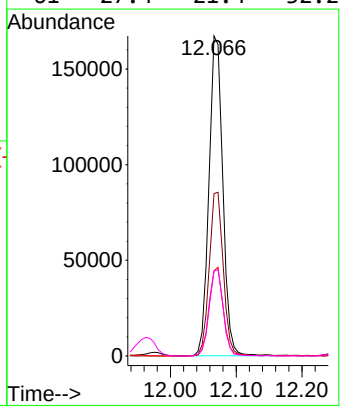
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

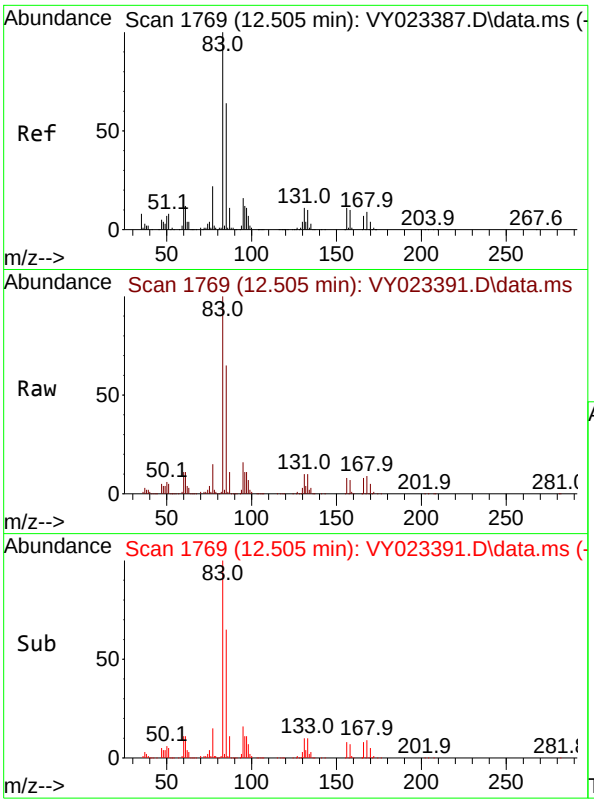


#74
N-amyl acetate
Concen: 51.087 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 245291

Ion	Ratio	Lower	Upper
43	100		
70	51.8	41.1	61.7
55	28.3	23.0	34.6
61	27.4	21.4	32.2

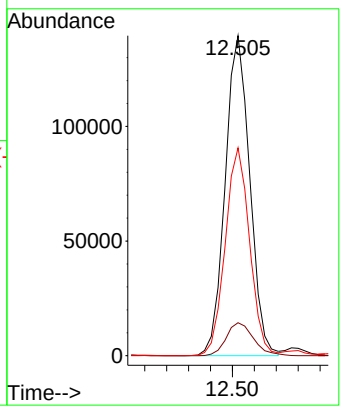




#75
1,1,2,2-Tetrachloroethane
Concen: 49.688 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 83 Resp: 21724

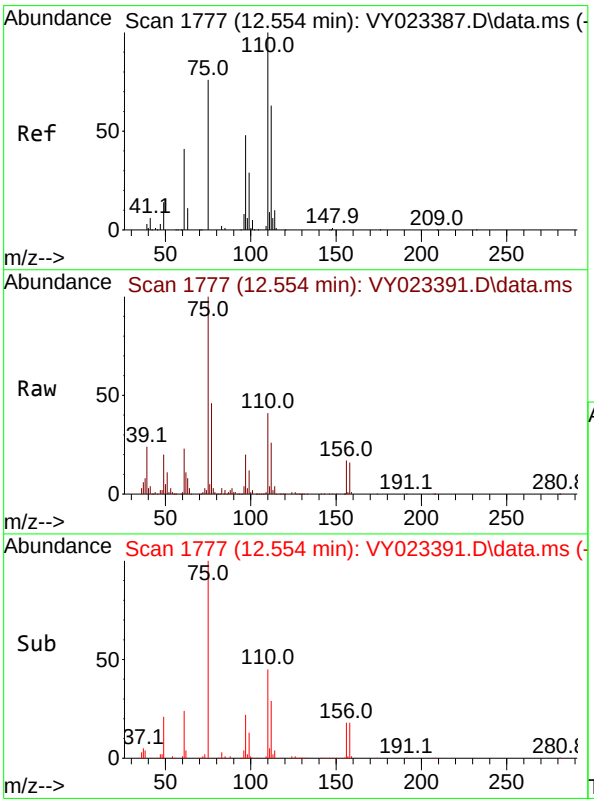
Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.9	17.6
85	64.4	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

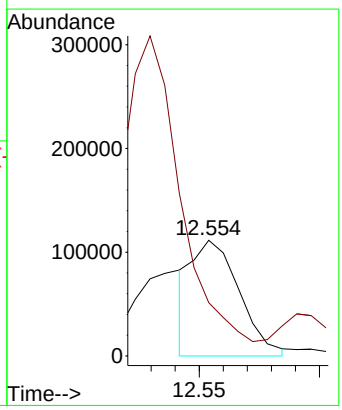
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

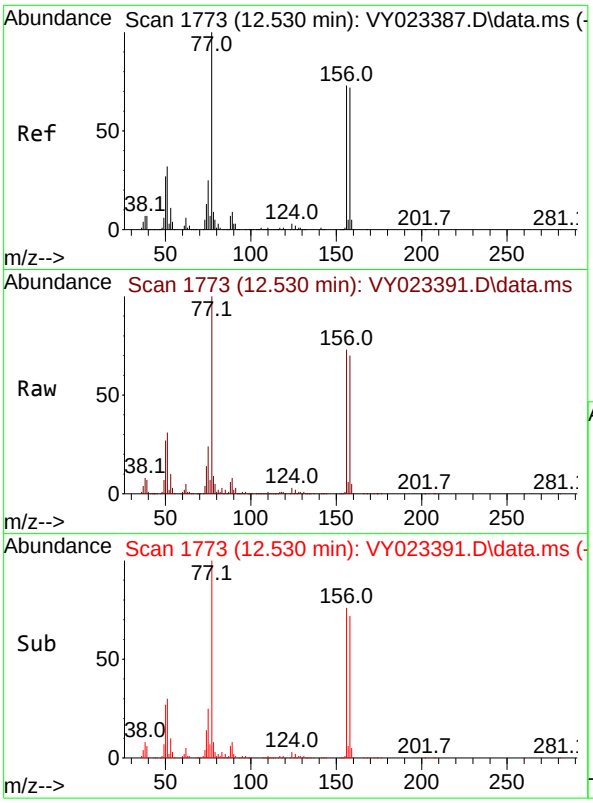


#76
1,2,3-Trichloropropane
Concen: 42.874 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 153438

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

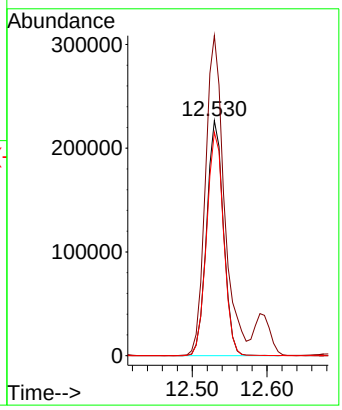




#77
Bromobenzene
Concen: 49.590 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:156 Resp: 35242

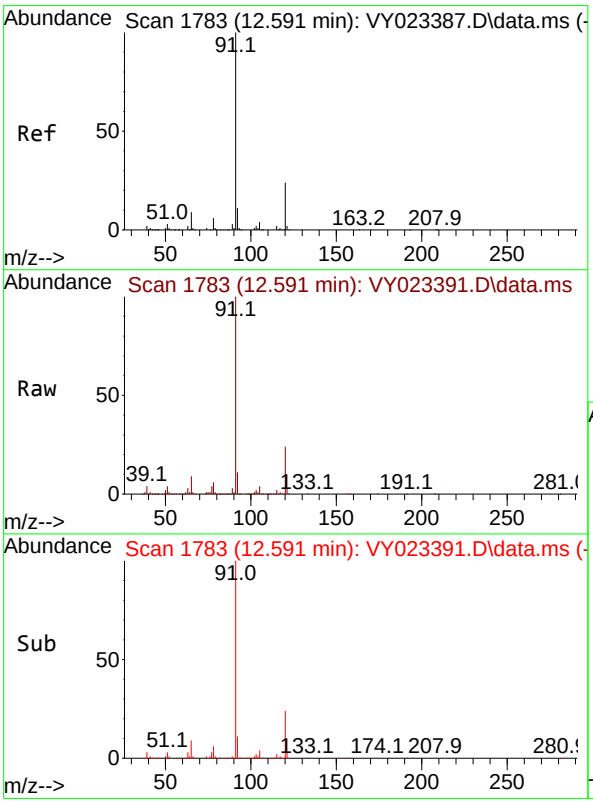
Ion	Ratio	Lower	Upper
156	100		
77	152.8	76.8	230.5
158	96.5	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

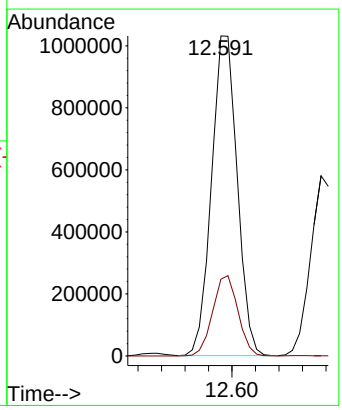
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

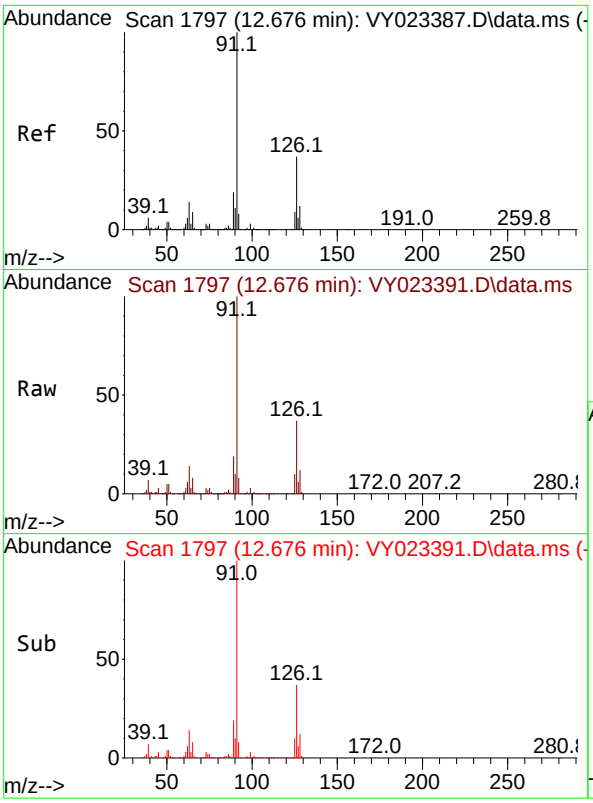


#78
n-propylbenzene
Concen: 50.694 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 1568180

Ion	Ratio	Lower	Upper
91	100		
120	24.7	12.3	36.8

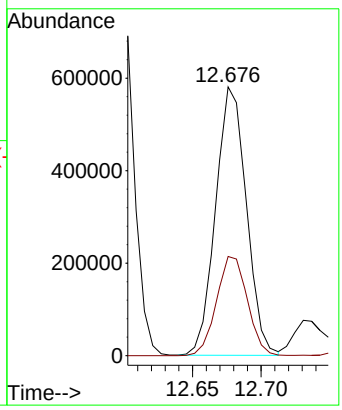




#79
2-Chlorotoluene
Concen: 50.047 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 90661

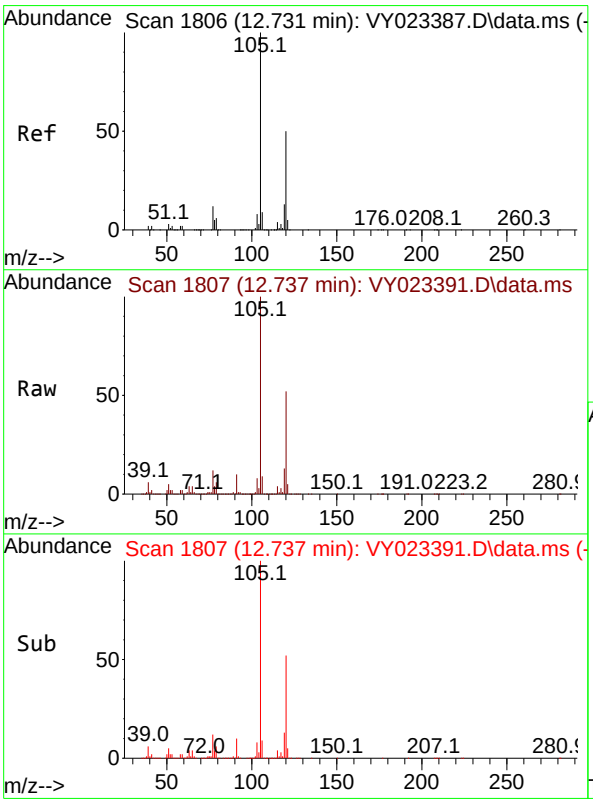
Ion	Ratio	Lower	Upper
91	100		
126	37.1	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

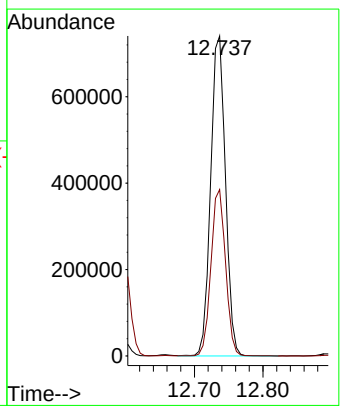
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

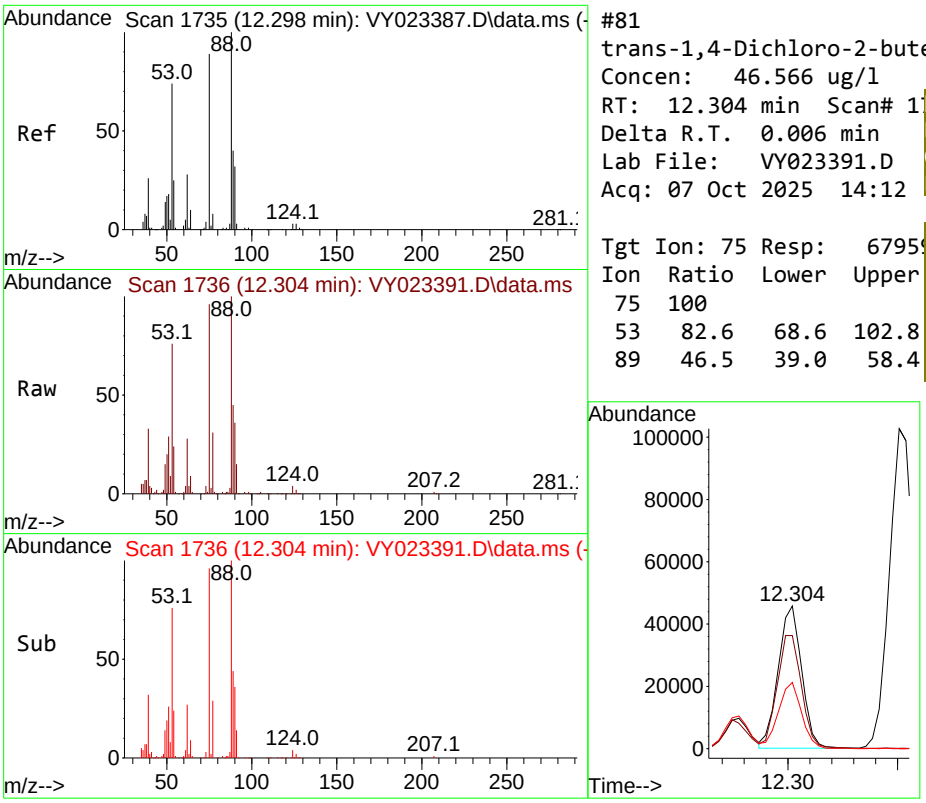


#80
1,3,5-Trimethylbenzene
Concen: 51.231 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:105 Resp: 1106664

Ion	Ratio	Lower	Upper
105	100		
120	51.4	25.4	76.4





#81
trans-1,4-Dichloro-2-butene
Concen: 46.566 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

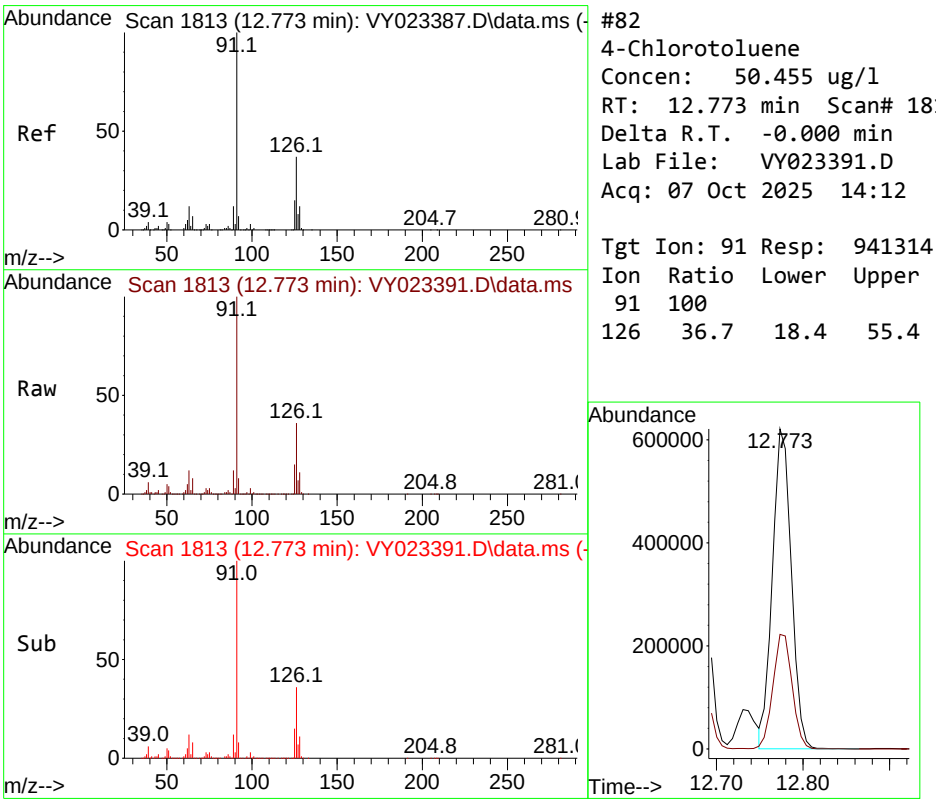
Tgt Ion: 75 Resp: 6795

Ion	Ratio	Lower	Upper
75	100		
53	82.6	68.6	102.8
89	46.5	39.0	58.4

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

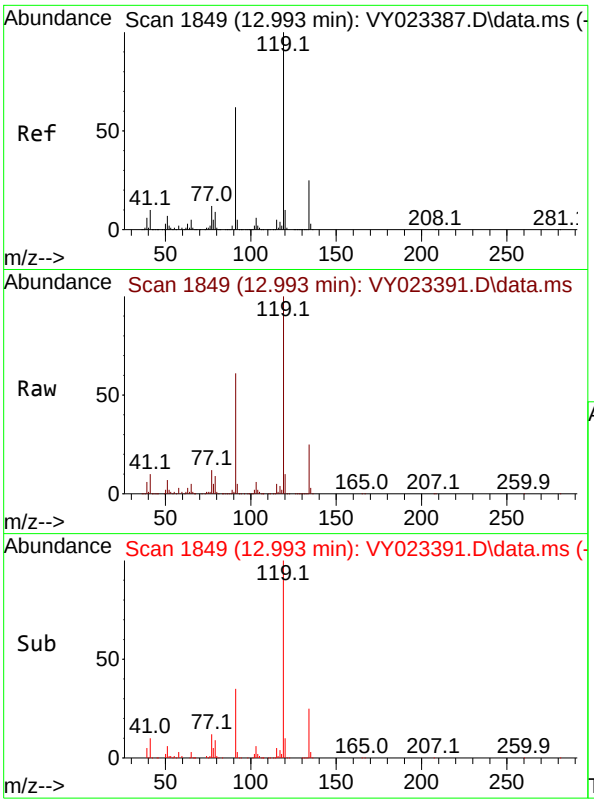
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#82
4-Chlorotoluene
Concen: 50.455 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 941314

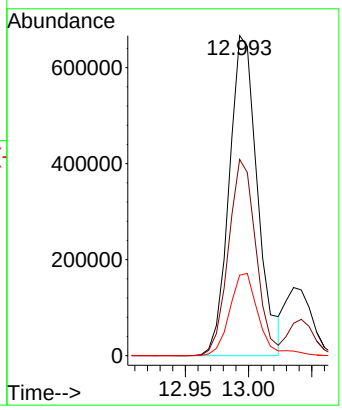
Ion	Ratio	Lower	Upper
91	100		
126	36.7	18.4	55.4



#83
tert-Butylbenzene
Concen: 52.019 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:119 Resp: 103751

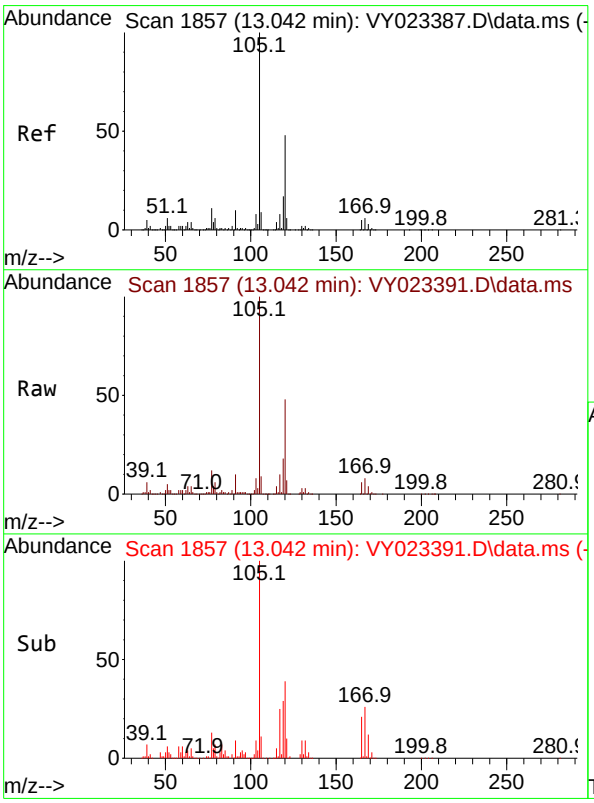
Ion	Ratio	Lower	Upper
119	100		
91	59.5	29.9	89.8
134	26.3	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

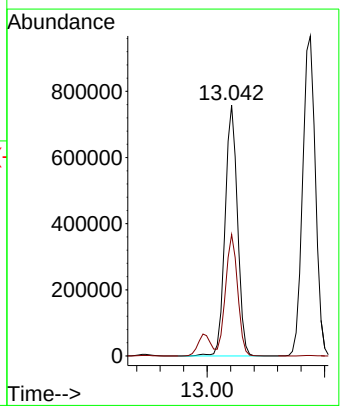
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

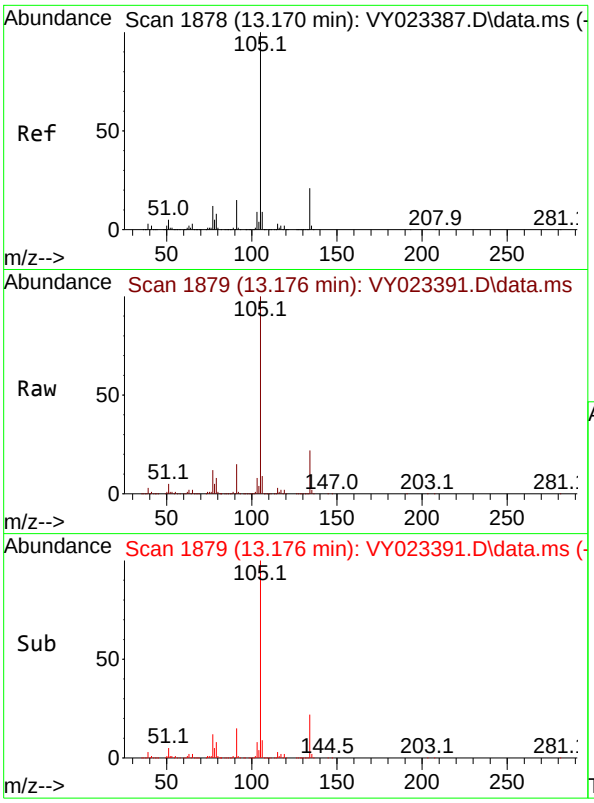


#84
1,2,4-Trimethylbenzene
Concen: 51.520 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:105 Resp: 1110672

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.8	71.2

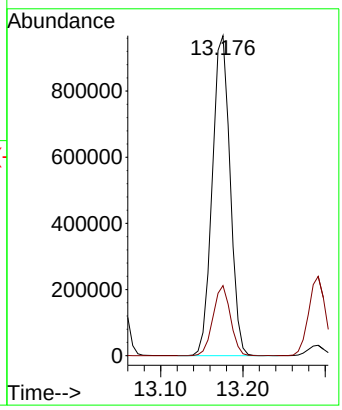




#85
sec-Butylbenzene
Concen: 50.848 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:105 Resp: 145477

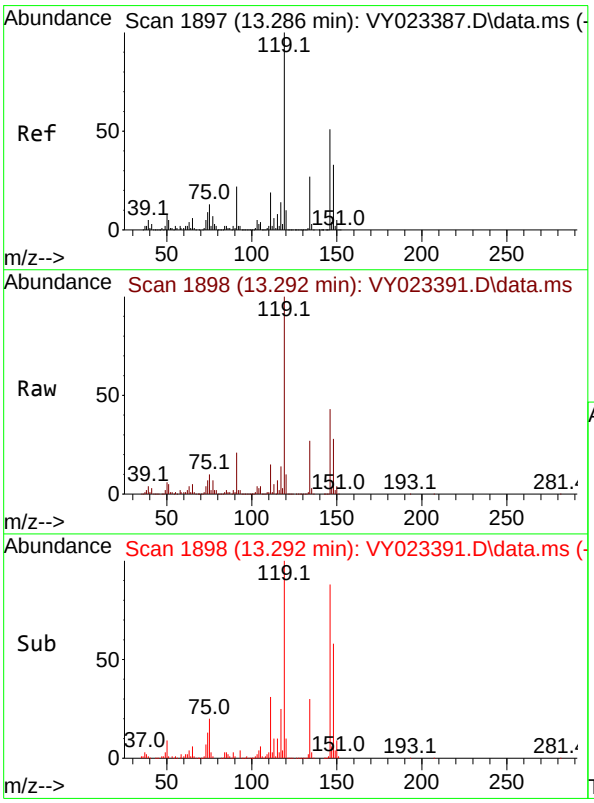
Ion	Ratio	Lower	Upper
105	100		
134	21.4	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

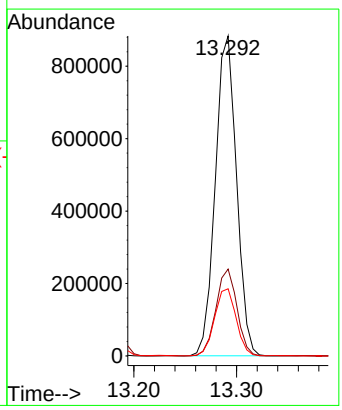
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

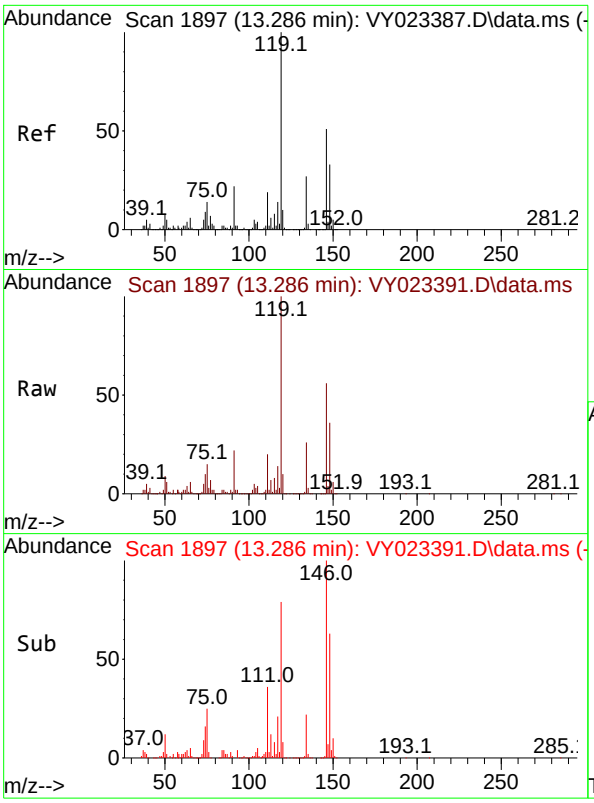


#86
p-Isopropyltoluene
Concen: 51.864 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:119 Resp: 1263377

Ion	Ratio	Lower	Upper
119	100		
134	26.9	13.6	40.7
91	21.3	10.9	32.9

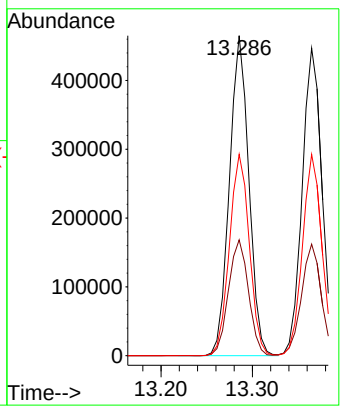




#87
1,3-Dichlorobenzene
Concen: 49.632 ug/l
RT: 13.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:146 Resp: 68685

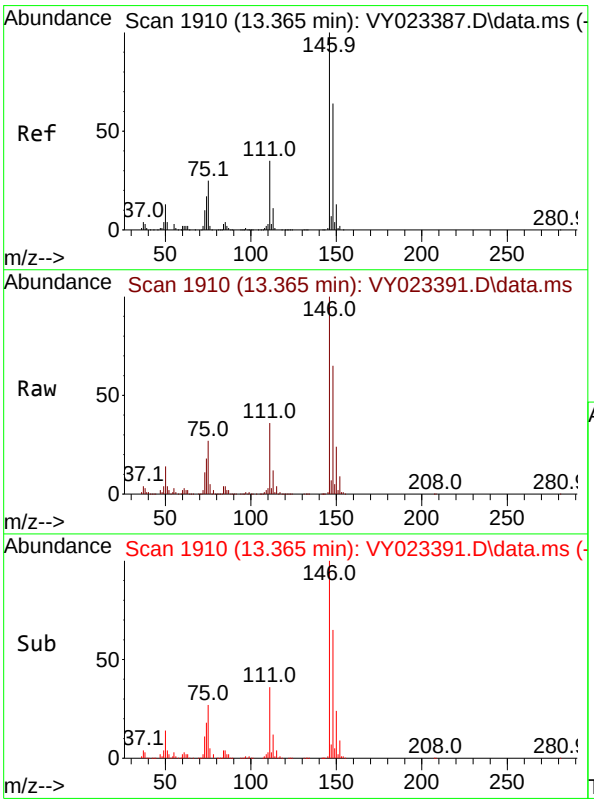
Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.7	56.1
148	64.5	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

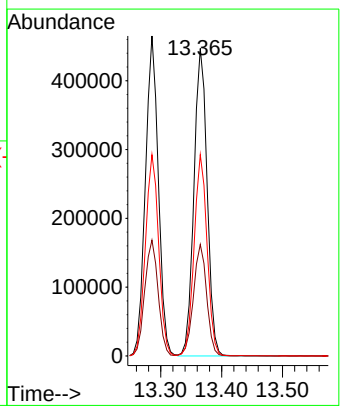
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

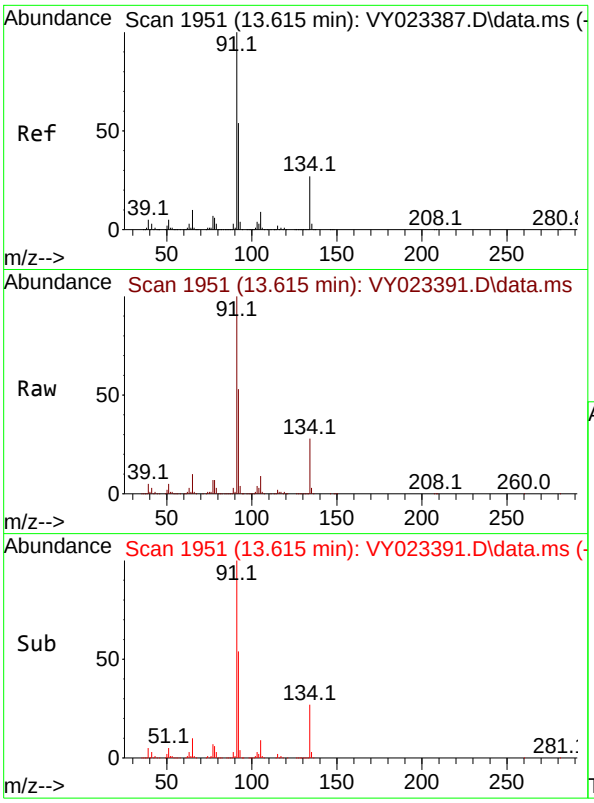


#88
1,4-Dichlorobenzene
Concen: 49.140 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:146 Resp: 671644

Ion	Ratio	Lower	Upper
146	100		
111	36.2	18.0	54.0
148	64.2	31.9	95.7

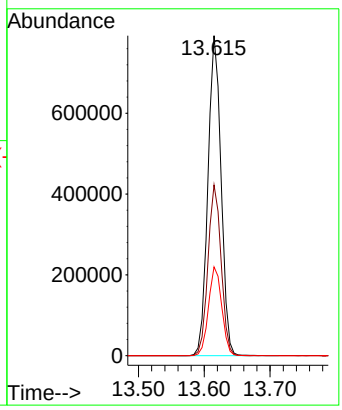




#89
n-Butylbenzene
Concen: 51.829 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 110008

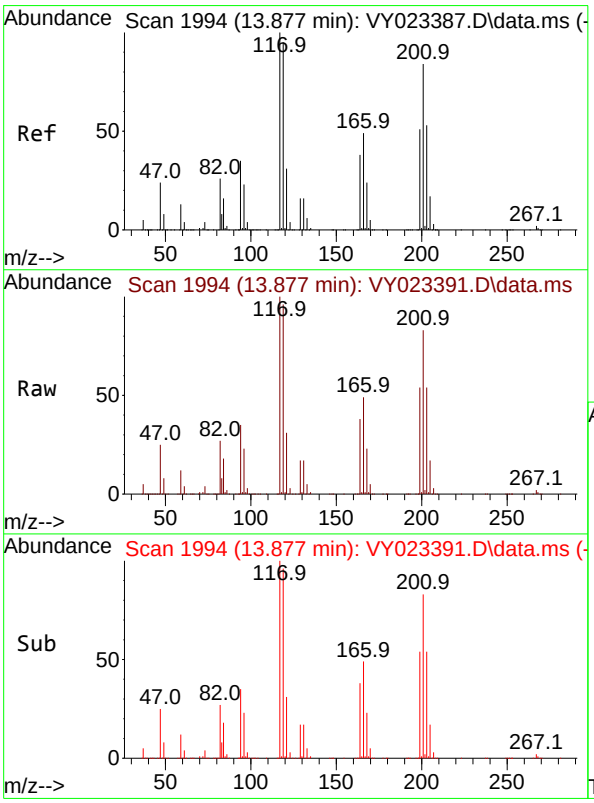
Ion	Ratio	Lower	Upper
91	100		
92	53.4	27.0	80.8
134	28.1	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

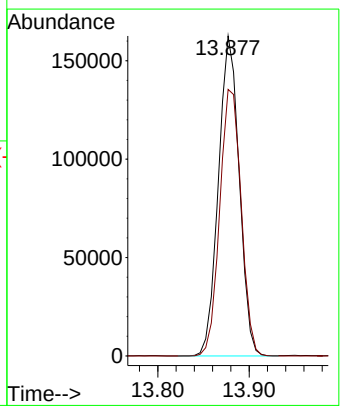
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

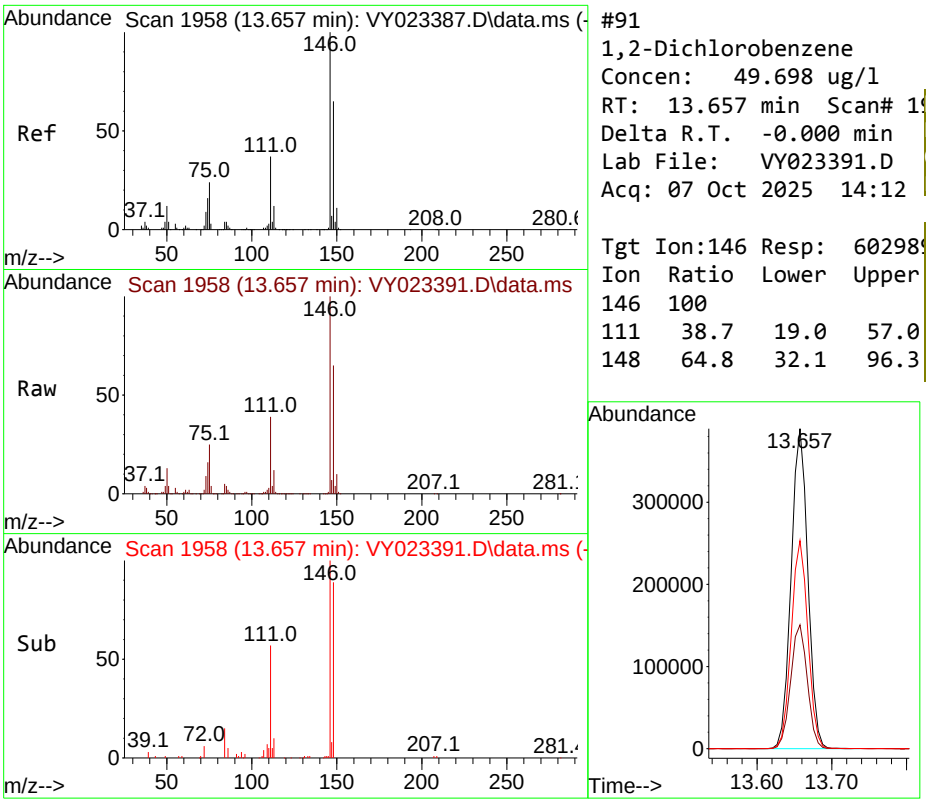


#90
Hexachloroethane
Concen: 49.116 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:117 Resp: 257335

Ion	Ratio	Lower	Upper
117	100		
201	85.7	43.8	131.4





#91
1,2-Dichlorobenzene
Concen: 49.698 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

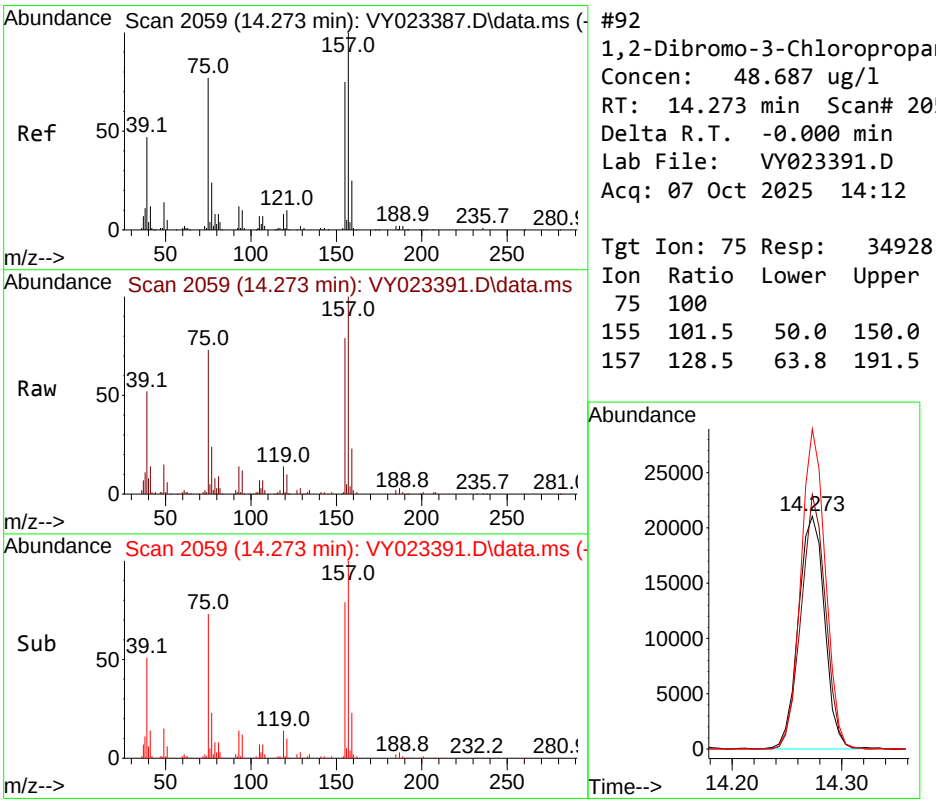
Tgt Ion:146 Resp: 60298

Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.0	57.0
148	64.8	32.1	96.3

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

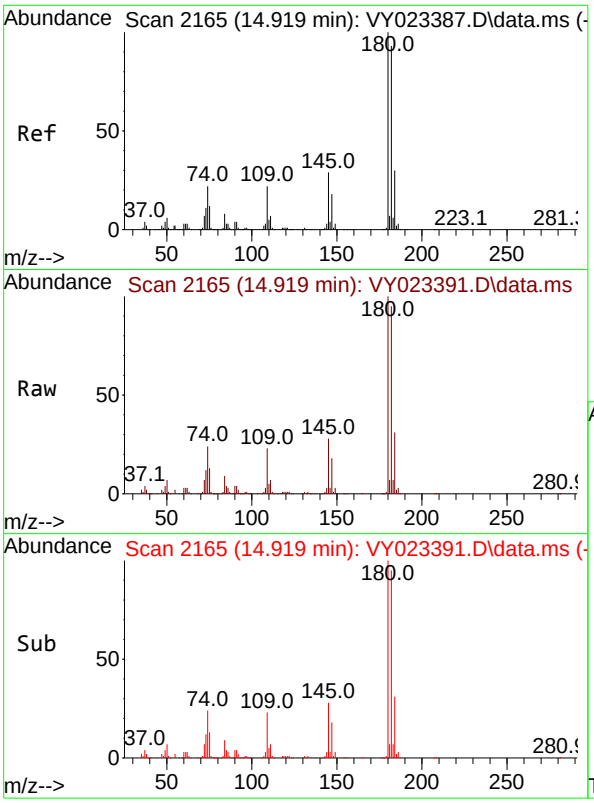
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 48.687 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 34928

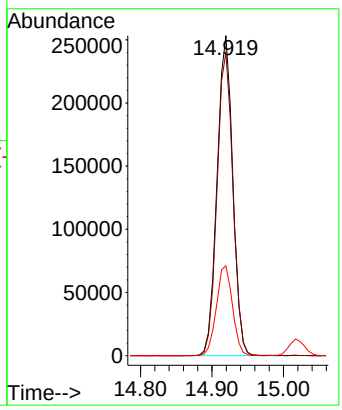
Ion	Ratio	Lower	Upper
75	100		
155	101.5	50.0	150.0
157	128.5	63.8	191.5



#93
1,2,4-Trichlorobenzene
Concen: 51.138 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:180 Resp: 38680

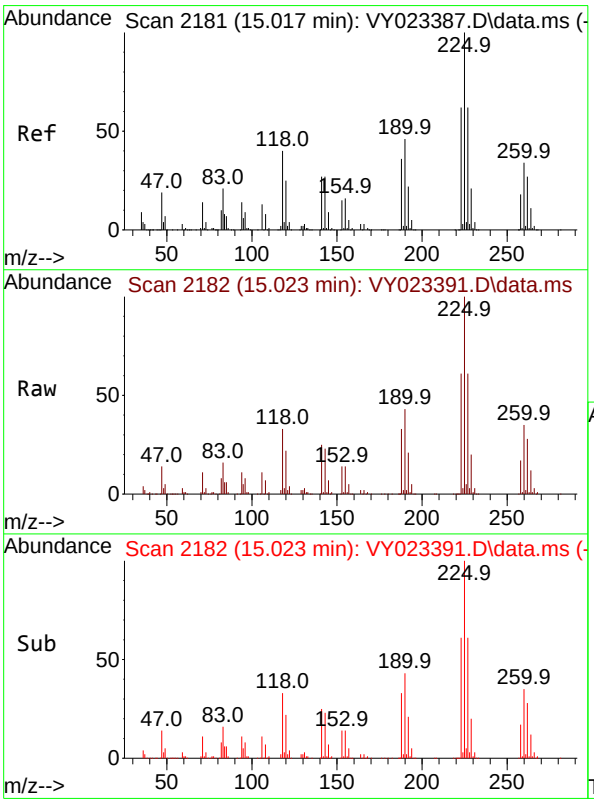
Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.9	143.6
145	28.8	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

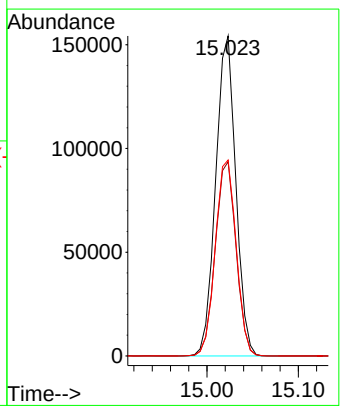
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

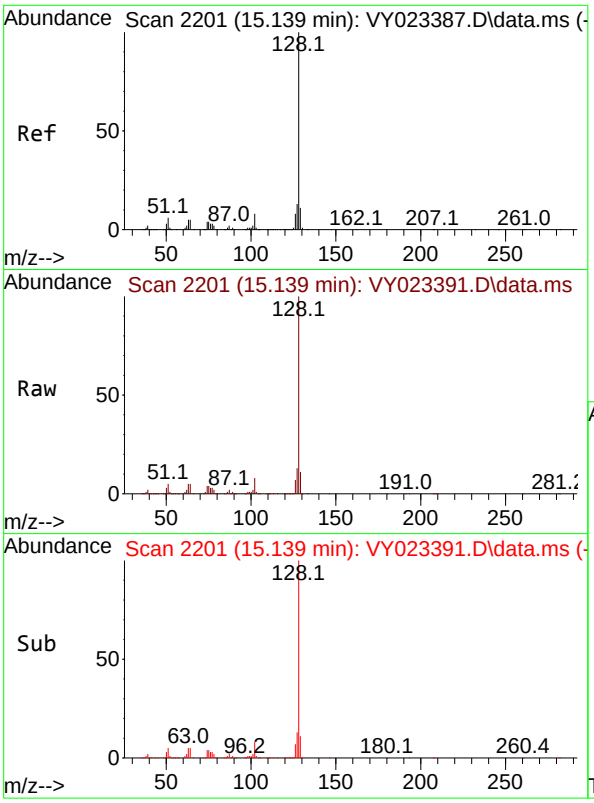


#94
Hexachlorobutadiene
Concen: 50.061 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:225 Resp: 236040

Ion	Ratio	Lower	Upper
225	100		
223	62.6	30.8	92.3
227	63.6	31.9	95.7

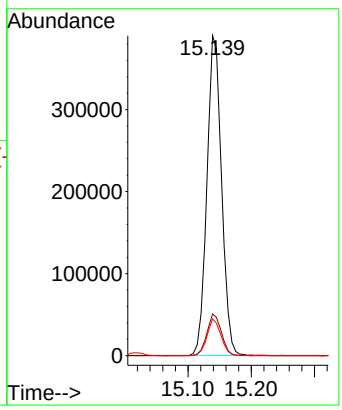




#95
Naphthalene
Concen: 52.154 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:128 Resp: 62819

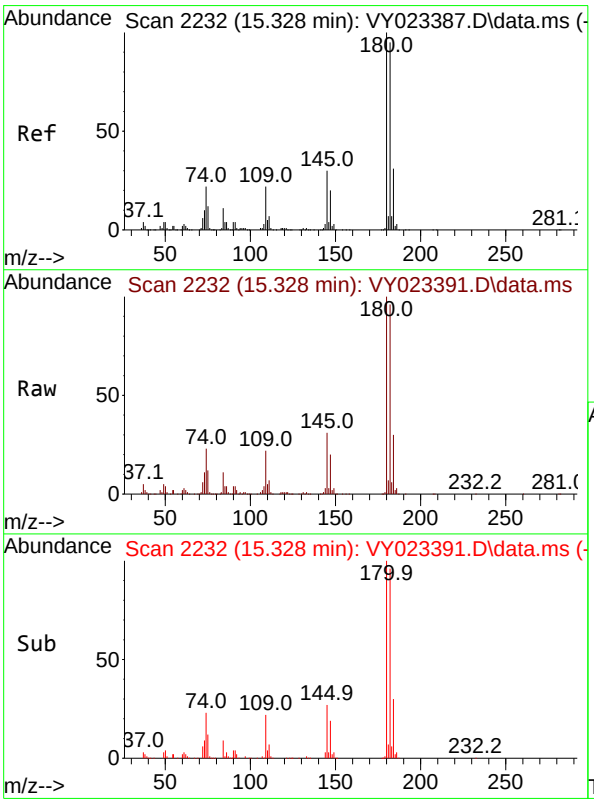
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.0	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

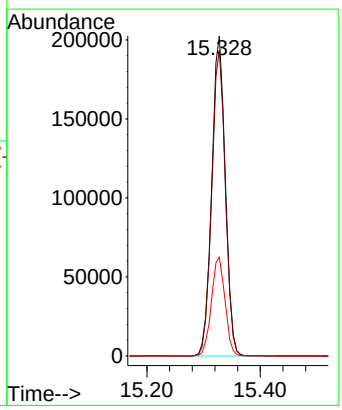
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.172 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:180 Resp: 335267

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.9	143.8
145	31.1	15.3	45.9



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	97	0.00
2	T	Dichlorodifluoromethane	50.000	44.916	10.2	98	0.00
3	P	Chloromethane	50.000	52.519	-5.0	112	0.00
4	C	Vinyl Chloride	50.000	49.449	1.1#	103	0.00
5	T	Bromomethane	50.000	48.856	2.3	109	0.00
6	T	Chloroethane	50.000	51.367	-2.7	105	0.00
7	T	Trichlorofluoromethane	50.000	48.582	2.8	100	0.00
8	T	Diethyl Ether	50.000	51.050	-2.1	107	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.728	2.5	100	0.00
10	T	Methyl Iodide	50.000	51.875	-3.8	96	0.00
11	T	Tert butyl alcohol	250.000	231.079	7.6	112	0.00
12	CM	1,1-Dichloroethene	50.000	49.653	0.7#	101	0.00
13	T	Acrolein	250.000	246.184	1.5	101	0.00
14	T	Allyl chloride	50.000	50.645	-1.3	102	0.00
15	T	Acrylonitrile	250.000	251.575	-0.6	106	0.00
16	T	Acetone	250.000	212.910	14.8	99	0.00
17	T	Carbon Disulfide	50.000	50.021	-0.0	101	0.00
18	T	Methyl Acetate	50.000	50.439	-0.9	104	0.00
19	T	Methyl tert-butyl Ether	50.000	52.230	-4.5	107	0.00
20	T	Methylene Chloride	50.000	52.503	-5.0	120	0.00
21	T	trans-1,2-Dichloroethene	50.000	51.482	-3.0	105	0.00
22	T	Diisopropyl ether	50.000	51.364	-2.7	103	0.00
23	T	Vinyl Acetate	250.000	260.981	-4.4	106	0.00
24	P	1,1-Dichloroethane	50.000	50.742	-1.5	104	0.00
25	T	2-Butanone	250.000	233.083	6.8	105	0.00
26	T	2,2-Dichloropropane	50.000	49.626	0.7	100	0.00
27	T	cis-1,2-Dichloroethene	50.000	52.485	-5.0	107	0.00
28	T	Bromochloromethane	50.000	45.427	9.1	99	0.00
29	T	Tetrahydrofuran	250.000	253.317	-1.3	107	0.00
30	C	Chloroform	50.000	51.137	-2.3#	104	0.00
31	T	Cyclohexane	50.000	47.416	5.2	100	0.00
32	T	1,1,1-Trichloroethane	50.000	49.934	0.1	101	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.450	1.1	103	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	100	0.00
35	S	Dibromofluoromethane	50.000	49.116	1.8	101	0.00
36	T	1,1-Dichloropropene	50.000	49.761	0.5	102	0.00
37	T	Ethyl Acetate	50.000	49.740	0.5	107	0.00
38	T	Carbon Tetrachloride	50.000	48.671	2.7	100	0.00
39	T	Methylcyclohexane	50.000	49.970	0.1	101	0.00
40	TM	Benzene	50.000	49.906	0.2	102	0.00
41	T	Methacrylonitrile	50.000	48.008	4.0	105	0.00
42	TM	1,2-Dichloroethane	50.000	49.318	1.4	104	0.00
43	T	Isopropyl Acetate	50.000	50.548	-1.1	108	0.00
44	TM	Trichloroethene	50.000	49.120	1.8	101	0.00
45	C	1,2-Dichloropropane	50.000	50.355	-0.7#	105	0.00
46	T	Dibromomethane	50.000	50.885	-1.8	106	0.00
47	T	Bromodichloromethane	50.000	50.450	-0.9	104	0.00
48	T	Methyl methacrylate	50.000	49.440	1.1	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	1039.252	-3.9	110	0.00
50	S	Toluene-d8	50.000	49.228	1.5	100	0.00
51	T	4-Methyl-2-Pentanone	250.000	253.421	-1.4	106	0.00
52	CM	Toluene	50.000	51.556	-3.1#	105	0.00
53	T	t-1,3-Dichloropropene	50.000	51.160	-2.3	105	0.00
54	T	cis-1,3-Dichloropropene	50.000	51.649	-3.3	106	0.00
55	T	1,1,2-Trichloroethane	50.000	50.430	-0.9	106	0.00
56	T	Ethyl methacrylate	50.000	53.385	-6.8	107	0.00
57	T	1,3-Dichloropropane	50.000	51.113	-2.2	105	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	272.133	-8.9	106	0.00
59	T	2-Hexanone	250.000	245.480	1.8	105	0.00
60	T	Dibromochloromethane	50.000	50.974	-1.9	106	0.00
61	T	1,2-Dibromoethane	50.000	50.658	-1.3	105	0.00
62	S	4-Bromofluorobenzene	50.000	49.881	0.2	104	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	103	0.00
64	T	Tetrachloroethene	50.000	48.087	3.8	98	0.00
65	PM	Chlorobenzene	50.000	49.381	1.2	105	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	49.537	0.9	106	0.00
67	C	Ethyl Benzene	50.000	50.841	-1.7#	104	0.00
68	T	m/p-Xylenes	100.000	101.757	-1.8	103	0.00
69	T	o-Xylene	50.000	51.577	-3.2	105	0.00
70	T	Styrene	50.000	52.122	-4.2	105	0.00
71	P	Bromoform	50.000	50.070	-0.1	108	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73	T	Isopropylbenzene	50.000	50.318	-0.6	103	0.00
74	T	N-amyl acetate	50.000	51.087	-2.2	108	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.688	0.6	111	0.00
76	T	1,2,3-Trichloropropane	50.000	42.874	14.3	90	0.00
77	T	Bromobenzene	50.000	49.590	0.8	106	0.00
78	T	n-propylbenzene	50.000	50.694	-1.4	103	0.00
79	T	2-Chlorotoluene	50.000	50.047	-0.1	104	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.231	-2.5	104	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	46.566	6.9	103	0.00
82	T	4-Chlorotoluene	50.000	50.455	-0.9	105	0.00
83	T	tert-Butylbenzene	50.000	52.019	-4.0	105	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.520	-3.0	105	0.00
85	T	sec-Butylbenzene	50.000	50.848	-1.7	104	0.00
86	T	p-Isopropyltoluene	50.000	51.864	-3.7	104	0.00
87	T	1,3-Dichlorobenzene	50.000	49.632	0.7	106	0.00
88	T	1,4-Dichlorobenzene	50.000	49.140	1.7	105	0.00
89	T	n-Butylbenzene	50.000	51.829	-3.7	105	0.00
90	T	Hexachloroethane	50.000	49.116	1.8	105	0.00
91	T	1,2-Dichlorobenzene	50.000	49.698	0.6	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	48.687	2.6	107	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.138	-2.3	107	0.00
94	T	Hexachlorobutadiene	50.000	50.061	-0.1	104	0.00
95	T	Naphthalene	50.000	52.154	-4.3	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	51.172	-2.3	108	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	97	0.00
2	T	Dichlorodifluoromethane	0.360	0.323	10.3	98	0.00
3	P	Chloromethane	0.490	0.515	-5.1	112	0.00
4	C	Vinyl Chloride	0.639	0.632	1.1#	103	0.00
5	T	Bromomethane	0.536	0.524	2.2	109	0.00
6	T	Chloroethane	0.435	0.447	-2.8	105	0.00
7	T	Trichlorofluoromethane	0.887	0.862	2.8	100	0.00
8	T	Diethyl Ether	0.232	0.237	-2.2	107	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.460	0.448	2.6	100	0.00
10	T	Methyl Iodide	0.512	0.531	-3.7	96	0.00
11	T	Tert butyl alcohol	0.031	0.029	6.5	112	0.00
12	CM	1,1-Dichloroethene	0.446	0.443	0.7#	101	0.00
13	T	Acrolein	0.044	0.043	2.3	101	0.00
14	T	Allyl chloride	0.544	0.551	-1.3	102	0.00
15	T	Acrylonitrile	0.089	0.089	0.0	106	0.00
16	T	Acetone	0.100	0.085	15.0	99	0.00
17	T	Carbon Disulfide	1.277	1.277	0.0	101	0.00
18	T	Methyl Acetate	0.261	0.263	-0.8	104	0.00
19	T	Methyl tert-butyl Ether	1.072	1.120	-4.5	107	0.00
20	T	Methylene Chloride	0.538	0.565	-5.0	120	0.00
21	T	trans-1,2-Dichloroethene	0.491	0.506	-3.1	105	0.00
22	T	Diisopropyl ether	1.202	1.235	-2.7	103	0.00
23	T	Vinyl Acetate	0.651	0.679	-4.3	106	0.00
24	P	1,1-Dichloroethane	0.796	0.808	-1.5	104	0.00
25	T	2-Butanone	0.122	0.113	7.4	105	0.00
26	T	2,2-Dichloropropane	0.731	0.725	0.8	100	0.00
27	T	cis-1,2-Dichloroethene	0.567	0.595	-4.9	107	0.00
28	T	Bromochloromethane	0.297	0.270	9.1	99	0.00
29	T	Tetrahydrofuran	0.069	0.070	-1.4	107	0.00
30	C	Chloroform	0.875	0.895	-2.3#	104	0.00
31	T	Cyclohexane	0.696	0.660	5.2	100	0.00
32	T	1,1,1-Trichloroethane	0.795	0.794	0.1	101	0.00
33	S	1,2-Dichloroethane-d4	0.418	0.414	1.0	103	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
35	S	Dibromofluoromethane	0.307	0.302	1.6	101	0.00
36	T	1,1-Dichloropropene	0.407	0.405	0.5	102	0.00
37	T	Ethyl Acetate	0.161	0.160	0.6	107	0.00
38	T	Carbon Tetrachloride	0.493	0.480	2.6	100	0.00
39	T	Methylcyclohexane	0.530	0.529	0.2	101	0.00
40	TM	Benzene	1.288	1.286	0.2	102	0.00
41	T	Methacrylonitrile	0.087	0.084	3.4	105	0.00
42	TM	1,2-Dichloroethane	0.332	0.328	1.2	104	0.00
43	T	Isopropyl Acetate	0.321	0.325	-1.2	108	0.00
44	TM	Trichloroethene	0.377	0.370	1.9	101	0.00
45	C	1,2-Dichloropropane	0.285	0.287	-0.7#	105	0.00
46	T	Dibromomethane	0.180	0.183	-1.7	106	0.00
47	T	Bromodichloromethane	0.453	0.457	-0.9	104	0.00
48	T	Methyl methacrylate	0.151	0.149	1.3	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	0.002	0.002	0.0	110	0.00
50	S	Toluene-d8	1.144	1.126	1.6	100	0.00
51	T	4-Methyl-2-Pentanone	0.166	0.168	-1.2	106	0.00
52	CM	Toluene	0.836	0.862	-3.1#	105	0.00
53	T	t-1,3-Dichloropropene	0.394	0.403	-2.3	105	0.00
54	T	cis-1,3-Dichloropropene	0.465	0.480	-3.2	106	0.00
55	T	1,1,2-Trichloroethane	0.242	0.244	-0.8	106	0.00
56	T	Ethyl methacrylate	0.279	0.298	-6.8	107	0.00
57	T	1,3-Dichloropropane	0.383	0.392	-2.3	105	0.00
58	T	2-Chloroethyl Vinyl ether	0.125	0.136	-8.8	106	0.00
59	T	2-Hexanone	0.119	0.116	2.5	105	0.00
60	T	Dibromochloromethane	0.339	0.346	-2.1	106	0.00
61	T	1,2-Dibromoethane	0.231	0.234	-1.3	105	0.00
62	S	4-Bromofluorobenzene	0.378	0.377	0.3	104	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
64	T	Tetrachloroethene	0.516	0.497	3.7	98	0.00
65	PM	Chlorobenzene	1.087	1.074	1.2	105	0.00
66	T	1,1,1,2-Tetrachloroethane	0.388	0.384	1.0	106	0.00
67	C	Ethyl Benzene	1.760	1.790	-1.7#	104	0.00
68	T	m/p-Xylenes	0.706	0.718	-1.7	103	0.00
69	T	o-Xylene	0.662	0.683	-3.2	105	0.00
70	T	Styrene	1.089	1.135	-4.2	105	0.00
71	P	Bromoform	0.240	0.241	-0.4	108	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73	T	Isopropylbenzene	3.295	3.316	-0.6	103	0.00
74	T	N-amyl acetate	0.592	0.605	-2.2	108	0.00
75	P	1,1,2,2-Tetrachloroethane	0.539	0.536	0.6	111	0.00
76	T	1,2,3-Trichloropropane	0.441	0.378	14.3	90	0.00
77	T	Bromobenzene	0.876	0.869	0.8	106	0.00
78	T	n-propylbenzene	3.813	3.866	-1.4	103	0.00
79	T	2-Chlorotoluene	2.233	2.235	-0.1	104	0.00
80	T	1,3,5-Trimethylbenzene	2.663	2.728	-2.4	104	0.00
81	T	trans-1,4-Dichloro-2-butene	0.180	0.168	6.7	103	0.00
82	T	4-Chlorotoluene	2.300	2.321	-0.9	105	0.00
83	T	tert-Butylbenzene	2.458	2.558	-4.1	105	0.00
84	T	1,2,4-Trimethylbenzene	2.657	2.738	-3.0	105	0.00
85	T	sec-Butylbenzene	3.527	3.586	-1.7	104	0.00
86	T	p-Isopropyltoluene	3.003	3.115	-3.7	104	0.00
87	T	1,3-Dichlorobenzene	1.706	1.693	0.8	106	0.00
88	T	1,4-Dichlorobenzene	1.685	1.656	1.7	105	0.00
89	T	n-Butylbenzene	2.616	2.712	-3.7	105	0.00
90	T	Hexachloroethane	0.646	0.634	1.9	105	0.00
91	T	1,2-Dichlorobenzene	1.496	1.487	0.6	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.088	0.086	2.3	107	0.00
93	T	1,2,4-Trichlorobenzene	0.932	0.954	-2.4	107	0.00
94	T	Hexachlorobutadiene	0.581	0.582	-0.2	104	0.00
95	T	Naphthalene	1.485	1.549	-4.3	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	0.808	0.827	-2.4	108	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: ROYF02
Lab Code: ACE
SDG No.: Q3447
Instrument ID: MSVOA_N
Calibration Date/Time: 10/31/2025 09:18
Lab File ID: VN088173.D
Init. Calib. Date(s): 10/23/2025 10/23/2025
Heated Purge: (Y/N) N
Init. Calib. Time(s): 09:42 12:02
GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.564	0.531		-5.85	20
Chloromethane	0.664	0.649	0.1	-2.26	20
Vinyl Chloride	0.723	0.710		-1.8	20
Bromomethane	0.432	0.441		2.08	20
Chloroethane	0.521	0.483		-7.29	20
Trichlorofluoromethane	1.153	1.046		-9.28	20
1,1,2-Trichlorotrifluoroethane	0.595	0.557		-6.39	20
1,1-Dichloroethene	0.628	0.577		-8.12	20
Acetone	0.434	0.484		11.52	20
Carbon Disulfide	1.910	1.754		-8.17	20
Methyl tert-butyl Ether	2.308	2.708		17.33	20
Methyl Acetate	0.889	1.062		19.46	20
Methylene Chloride	0.729	0.770		5.62	20
trans-1,2-Dichloroethene	0.690	0.692		0.29	20
1,1-Dichloroethane	1.283	1.435	0.1	11.85	20
Cyclohexane	1.210	1.123		-7.19	20
2-Butanone	0.572	0.676		18.18	20
Carbon Tetrachloride	0.507	0.518		2.17	20
cis-1,2-Dichloroethene	0.794	0.860		8.31	20
Bromochloromethane	0.606	0.704		16.17	20
Chloroform	1.282	1.429		11.47	20
1,1,1-Trichloroethane	1.142	1.197		4.82	20
Methylcyclohexane	0.630	0.521		-17.3	20
Benzene	1.494	1.567		4.89	20
1,2-Dichloroethane	0.531	0.629		18.46	20
Trichloroethene	0.349	0.356		2.01	20
1,2-Dichloropropane	0.377	0.406		7.69	20
Bromodichloromethane	0.538	0.609		13.2	20
4-Methyl-2-Pentanone	0.575	0.673		17.04	20
Toluene	0.921	0.982		6.62	20
t-1,3-Dichloropropene	0.573	0.681		18.85	20
cis-1,3-Dichloropropene	0.608	0.696		14.47	20
1,1,2-Trichloroethane	0.349	0.375		7.45	20
2-Hexanone	0.382	0.476		24.61	20
Dibromochloromethane	0.397	0.443		11.59	20
1,2-Dibromoethane	0.360	0.395		9.72	20
Tetrachloroethene	0.330	0.320		-3.03	20
Chlorobenzene	1.135	1.187	0.3	4.58	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	ROYF02
Lab Code:	ACE	SDG No.:	Q3447
Instrument ID:	MSVOA_N	Calibration Date/Time:	10/31/2025 09:18
Lab File ID:	VN088173.D	Init. Calib. Date(s):	10/23/2025 10/23/2025
Heated Purge: (Y/N)	N	Init. Calib. Time(s):	09:42 12:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.993	2.125		6.62	20
m/p-Xylenes	0.747	0.787		5.36	20
o-Xylene	0.708	0.770		8.76	20
Styrene	1.154	1.322		14.56	20
Bromoform	0.278	0.319	0.1	14.75	20
Isopropylbenzene	3.856	3.985		3.35	20
1,1,2,2-Tetrachloroethane	1.201	1.303	0.3	8.49	20
1,3-Dichlorobenzene	1.660	1.774		6.87	20
1,4-Dichlorobenzene	1.783	1.830		2.64	20
1,2-Dichlorobenzene	1.600	1.694		5.88	20
1,2-Dibromo-3-Chloropropane	0.279	0.328		17.56	20
1,2,4-Trichlorobenzene	0.969	0.953		-1.65	20
1,2,3-Trichlorobenzene	0.929	0.907		-2.37	20
1,2-Dichloroethane-d4	0.865	0.986		13.99	20
Dibromofluoromethane	0.336	0.348		3.57	20
Toluene-d8	1.294	1.284		-0.77	20
4-Bromofluorobenzene	0.457	0.482		5.47	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\VN103125\
Data File : VN088173.D
Acq On : 31 Oct 2025 09:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 00:25:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	300377	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	578571	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	509730	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	249740	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	296278	57.041	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.080%			
35) Dibromofluoromethane	8.147	113	201311	51.793	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.580%			
50) Toluene-d8	10.541	98	742755	49.594	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.180%			
62) 4-Bromofluorobenzene	12.829	95	278690	52.690	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.380%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	159506	47.076	ug/l	99
3) Chloromethane	2.383	50	194974	48.913	ug/l	98
4) Vinyl Chloride	2.536	62	213319	49.116	ug/l	99
5) Bromomethane	2.965	94	132462	50.990	ug/l	100
6) Chloroethane	3.136	64	144981	46.331	ug/l	100
7) Trichlorofluoromethane	3.512	101	314232	45.362	ug/l	96
8) Diethyl Ether	3.959	74	139359	54.129	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.365	101	167411	46.834	ug/l	98
10) Methyl Iodide	4.577	142	183501	51.882	ug/l	99
11) Tert butyl alcohol	5.524	59	263262	294.201	ug/l	100
12) 1,1-Dichloroethene	4.336	96	173362	45.919	ug/l	96
13) Acrolein	4.171	56	323043	320.945	ug/l	98
14) Allyl chloride	5.006	41	356784	53.916	ug/l	99
15) Acrylonitrile	5.706	53	711762	292.005	ug/l	99
16) Acetone	4.418	43	726656	278.469	ug/l	98
17) Carbon Disulfide	4.700	76	526861	45.907	ug/l	99
18) Methyl Acetate	5.018	43	319139	59.739	ug/l	98
19) Methyl tert-butyl Ether	5.789	73	813525	58.675	ug/l	96
20) Methylene Chloride	5.265	84	231212	56.820	ug/l	98
21) trans-1,2-Dichloroethene	5.771	96	207951	50.180	ug/l	98
22) Diisopropyl ether	6.653	45	803453	57.733	ug/l	98
23) Vinyl Acetate	6.589	43	3734608	297.911	ug/l	99
24) 1,1-Dichloroethane	6.553	63	431014	55.910	ug/l	97
25) 2-Butanone	7.465	43	1015630	295.337	ug/l	99
26) 2,2-Dichloropropane	7.471	77	376472	53.739	ug/l	98
27) cis-1,2-Dichloroethene	7.465	96	258249	54.132	ug/l	94
28) Bromochloromethane	7.794	49	211578	58.085	ug/l	99
29) Tetrahydrofuran	7.818	42	639573	285.379	ug/l	99
30) Chloroform	7.947	83	429348	55.749	ug/l	99
31) Cyclohexane	8.241	56	337284	46.389	ug/l	95
32) 1,1,1-Trichloroethane	8.147	97	359682	52.437	ug/l	99
36) 1,1-Dichloropropene	8.347	75	285851	50.368	ug/l	99
37) Ethyl Acetate	7.541	43	408033	55.713	ug/l	97
38) Carbon Tetrachloride	8.341	117	299517	51.098	ug/l	96
39) Methylcyclohexane	9.583	83	301570	41.340	ug/l	98
40) Benzene	8.588	78	906694	52.459	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088173.D
Acq On : 31 Oct 2025 09:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 00:25:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.759	41	220061	57.090	ug/l		98
42) 1,2-Dichloroethane	8.647	62	363916	59.258	ug/l		99
43) Isopropyl Acetate	8.671	43	644979	57.311	ug/l		98
44) Trichloroethene	9.330	130	205838	50.951	ug/l		97
45) 1,2-Dichloropropane	9.600	63	235055	53.869	ug/l		99
46) Dibromomethane	9.688	93	175678	56.451	ug/l		99
47) Bromodichloromethane	9.865	83	352591	56.590	ug/l		97
48) Methyl methacrylate	9.659	41	312301	60.107	ug/l		99
49) 1,4-Dioxane	9.683	88	87007	1346.410	ug/l	#	99
51) 4-Methyl-2-Pentanone	10.424	43	1946537	292.374	ug/l		100
52) Toluene	10.606	92	568245	53.325	ug/l		96
53) t-1,3-Dichloropropene	10.818	75	394212	59.446	ug/l		99
54) cis-1,3-Dichloropropene	10.288	75	402794	57.241	ug/l		95
55) 1,1,2-Trichloroethane	10.994	97	216688	53.598	ug/l		99
56) Ethyl methacrylate	10.853	69	385456	60.248	ug/l		98
57) 1,3-Dichloropropane	11.141	76	396245	55.761	ug/l		99
58) 2-Chloroethyl Vinyl ether	10.141	63	1103120	331.478	ug/l		99
59) 2-Hexanone	11.177	43	1376141	311.587	ug/l		100
60) Dibromochloromethane	11.335	129	256080	55.728	ug/l		100
61) 1,2-Dibromoethane	11.447	107	228660	54.956	ug/l		100
64) Tetrachloroethene	11.082	164	163233	48.549	ug/l		97
65) Chlorobenzene	11.871	112	605006	52.271	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.935	131	209817	55.331	ug/l		99
67) Ethyl Benzene	11.941	91	1082976	53.305	ug/l		99
68) m/p-Xylenes	12.047	106	802615	105.437	ug/l		98
69) o-Xylene	12.376	106	392520	54.394	ug/l		98
70) Styrene	12.388	104	674014	57.279	ug/l		97
71) Bromoform	12.559	173	162591	57.455	ug/l	#	98
73) Isopropylbenzene	12.671	105	995181	51.666	ug/l		100
74) N-amyl acetate	12.500	43	274064m	50.122	ug/l		
75) 1,1,2,2-Tetrachloroethane	12.918	83	325289	54.244	ug/l		100
76) 1,2,3-Trichloropropane	12.971	75	279846m	49.011	ug/l		
77) Bromobenzene	12.959	156	233574	56.234	ug/l		97
78) n-propylbenzene	13.012	91	1205322	51.277	ug/l		99
79) 2-Chlorotoluene	13.100	91	758918	56.614	ug/l		96
80) 1,3,5-Trimethylbenzene	13.147	105	836803	52.310	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.718	75	115543	56.448	ug/l		88
82) 4-Chlorotoluene	13.200	91	775166	53.449	ug/l		99
83) tert-Butylbenzene	13.418	119	706275	49.424	ug/l		99
84) 1,2,4-Trimethylbenzene	13.459	105	855374	53.443	ug/l		100
85) sec-Butylbenzene	13.594	105	973068	46.347	ug/l		99
86) p-Isopropyltoluene	13.706	119	817622	48.545	ug/l		98
87) 1,3-Dichlorobenzene	13.712	146	443090	53.437	ug/l		98
88) 1,4-Dichlorobenzene	13.788	146	456997	51.315	ug/l		98
89) n-Butylbenzene	14.035	91	757528	45.407	ug/l		99
90) Hexachloroethane	14.306	117	151364	46.408	ug/l		93
91) 1,2-Dichlorobenzene	14.082	146	422989	52.921	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.700	75	81875	58.659	ug/l		95
93) 1,2,4-Trichlorobenzene	15.365	180	238065	49.180	ug/l		99
94) Hexachlorobutadiene	15.476	225	74537	41.349	ug/l		96
95) Naphthalene	15.612	128	892539	53.823	ug/l		100
96) 1,2,3-Trichlorobenzene	15.812	180	226425	48.784	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088173.D
Acq On : 31 Oct 2025 09:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 01 00:25:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

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

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

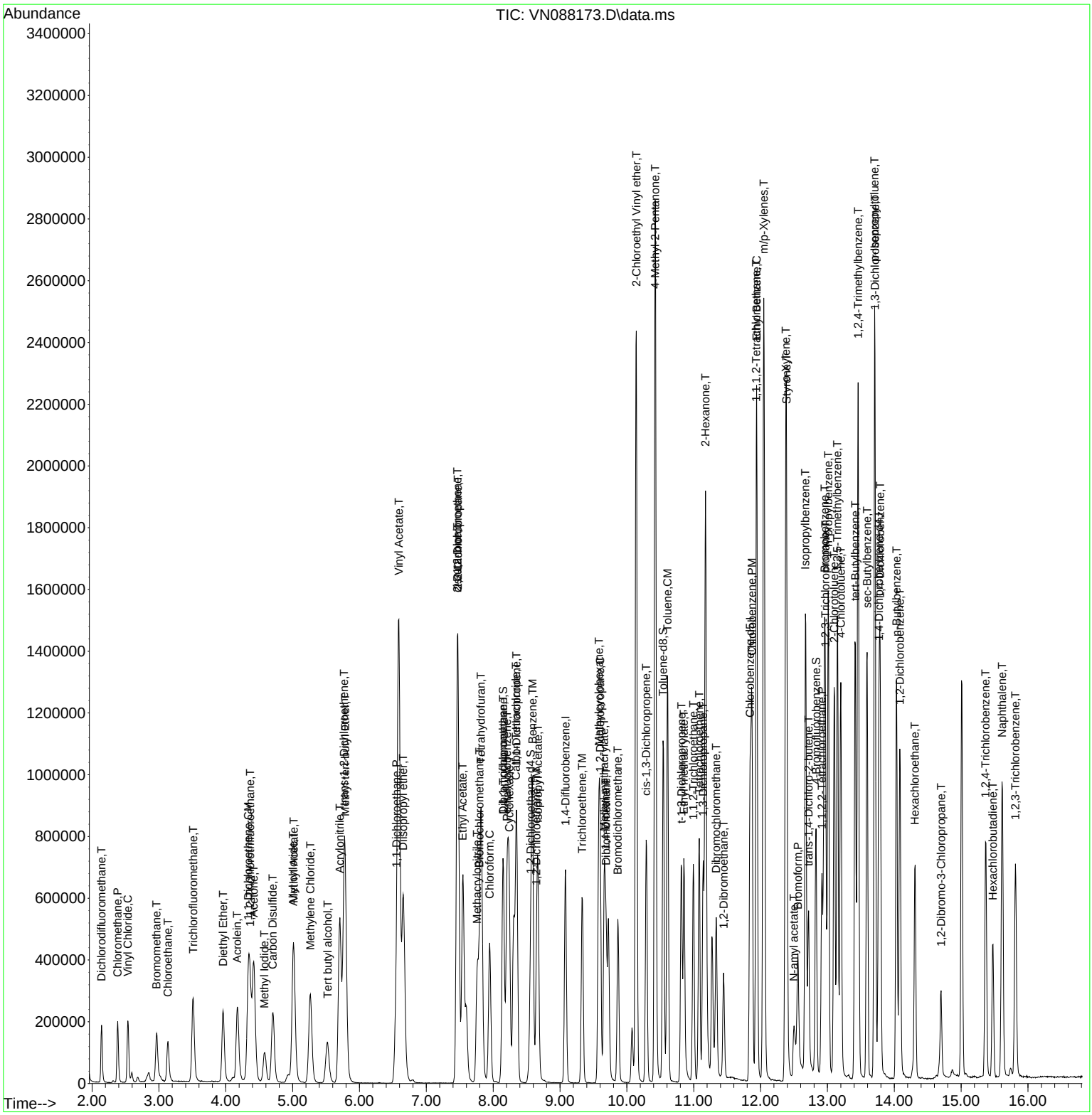
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Data File : VN088173.D
Acq On : 31 Oct 2025 09:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

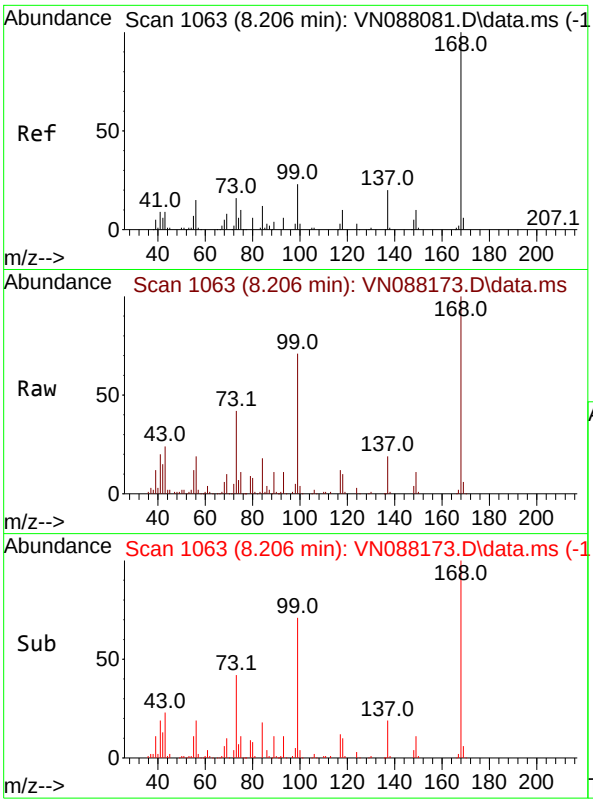
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

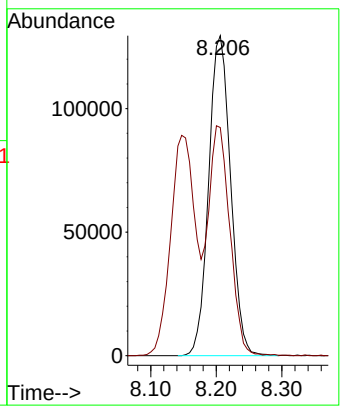




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:168 Resp: 30037

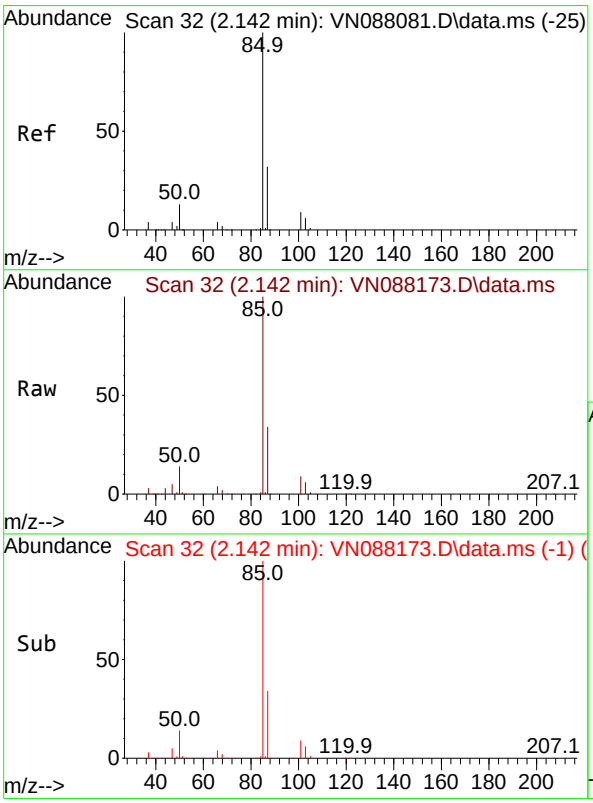
Ion	Ratio	Lower	Upper
168	100		
99	71.1	57.2	85.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

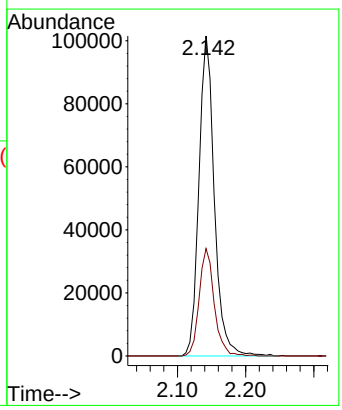
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

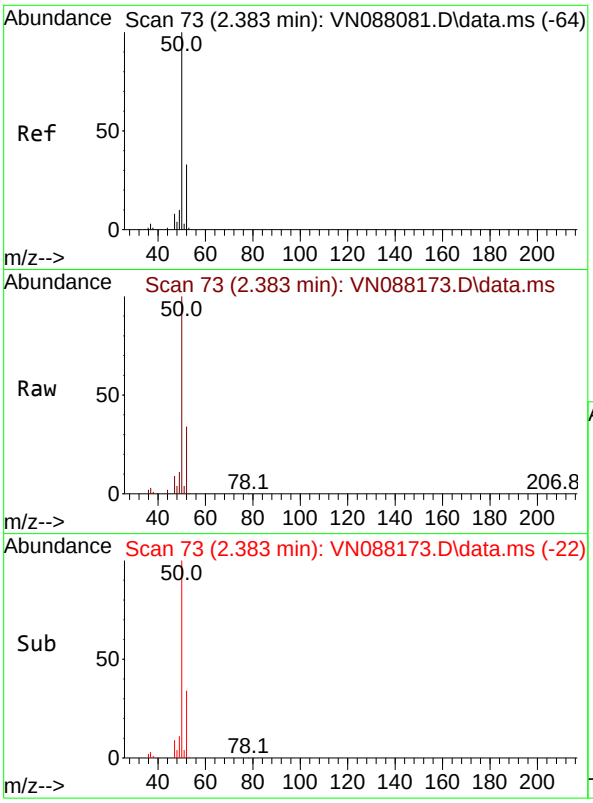


#2
Dichlorodifluoromethane
Concen: 47.076 ug/l
RT: 2.142 min Scan# 32
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 85 Resp: 159506

Ion	Ratio	Lower	Upper
85	100		
87	33.6	16.6	49.8

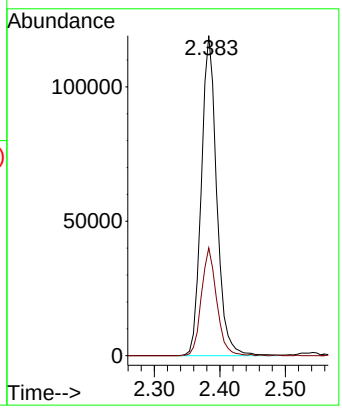




#3
Chloromethane
Concen: 48.913 ug/l
RT: 2.383 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 50 Resp: 19497

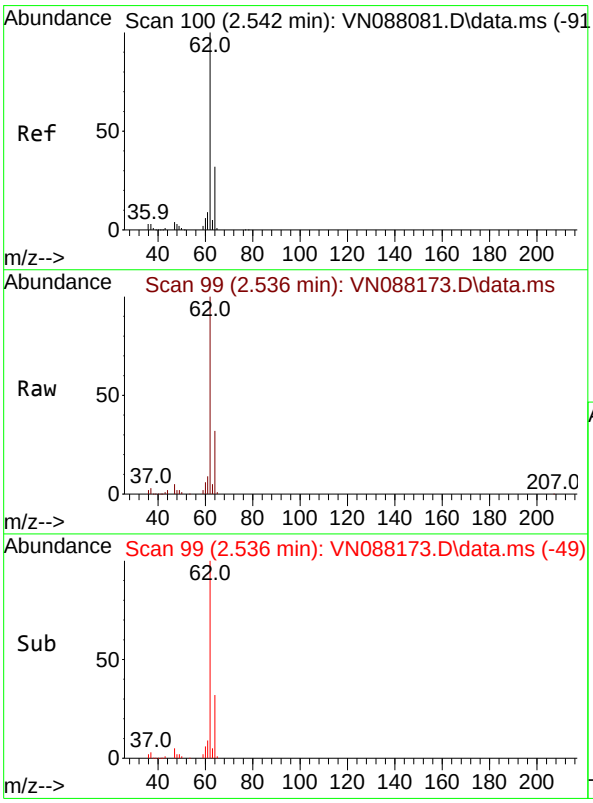
Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

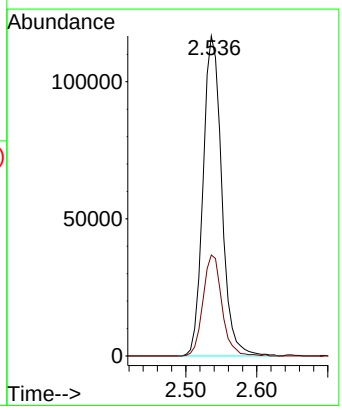
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

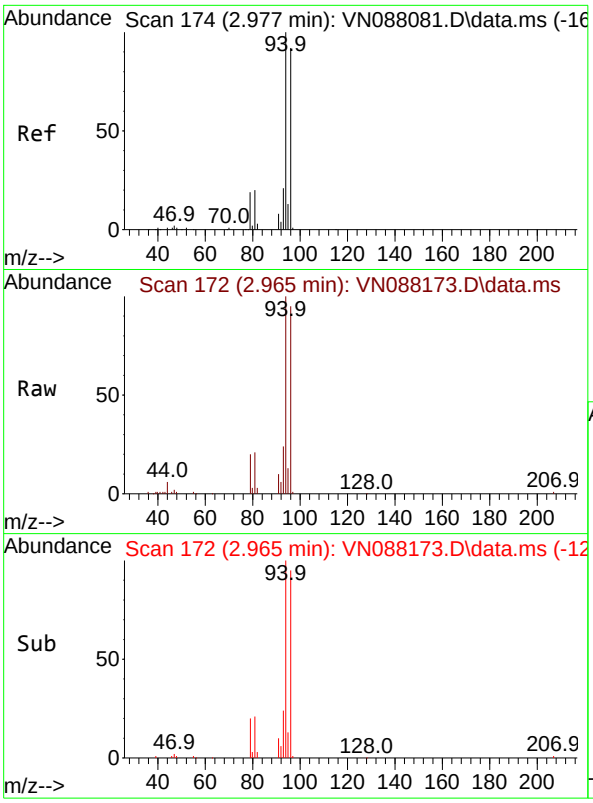


#4
Vinyl Chloride
Concen: 49.116 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 62 Resp: 213319

Ion	Ratio	Lower	Upper
62	100		
64	31.5	24.6	37.0

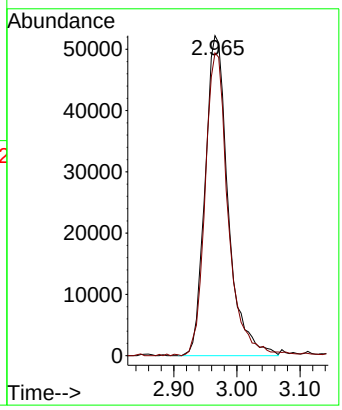




#5
Bromomethane
Concen: 50.990 ug/l
RT: 2.965 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 94 Resp: 13246

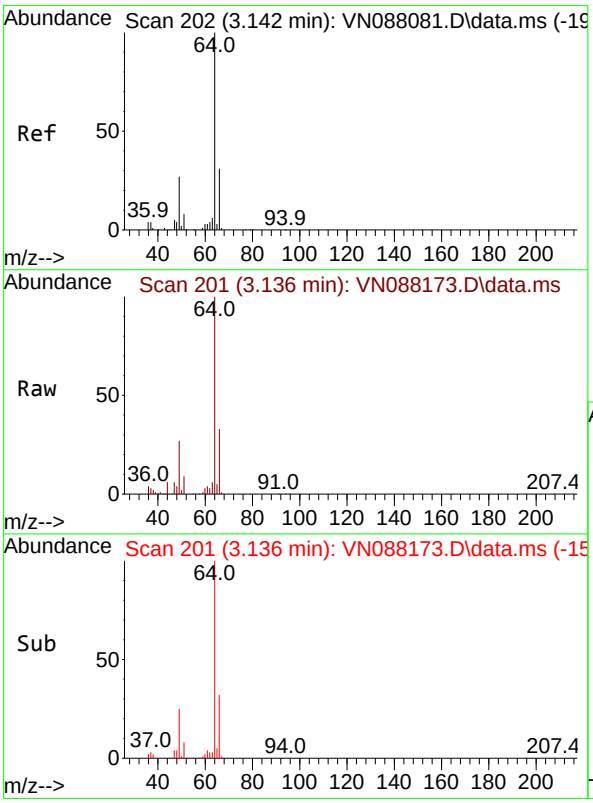
Ion	Ratio	Lower	Upper
94	100		
96	94.3	75.4	113.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

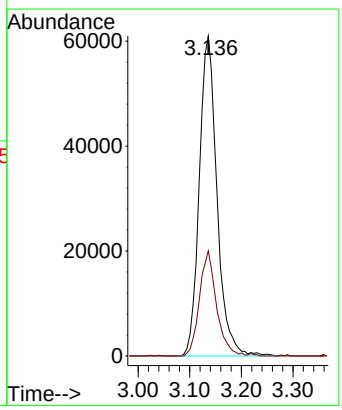
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

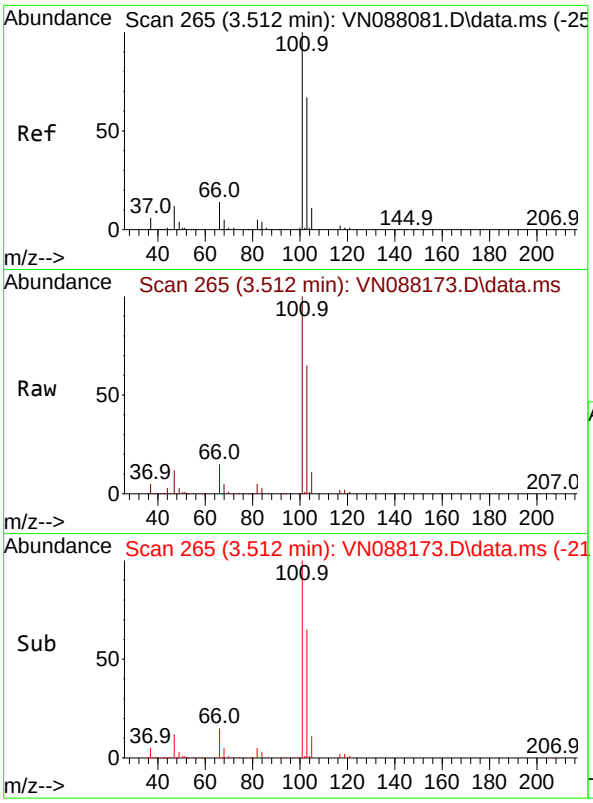


#6
Chloroethane
Concen: 46.331 ug/l
RT: 3.136 min Scan# 201
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 64 Resp: 144981

Ion	Ratio	Lower	Upper
64	100		
66	32.9	26.2	39.2

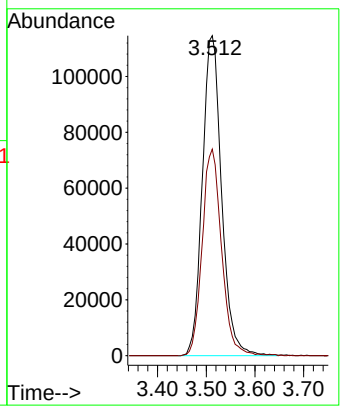




#7
Trichlorofluoromethane
Concen: 45.362 ug/l
RT: 3.512 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:101 Resp: 31423

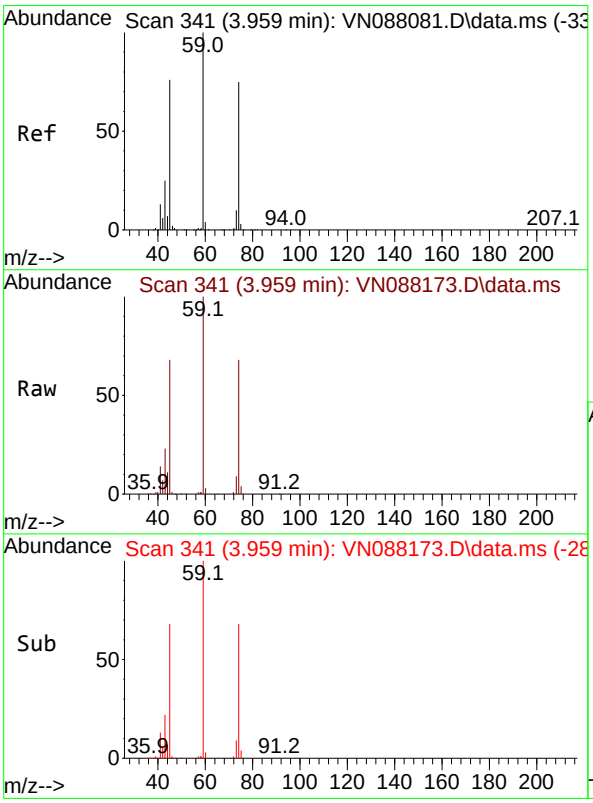
Ion	Ratio	Lower	Upper
101	100		
103	64.6	49.4	74.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

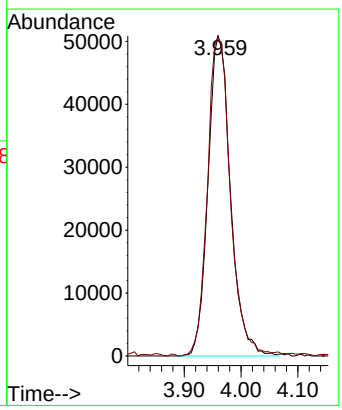
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

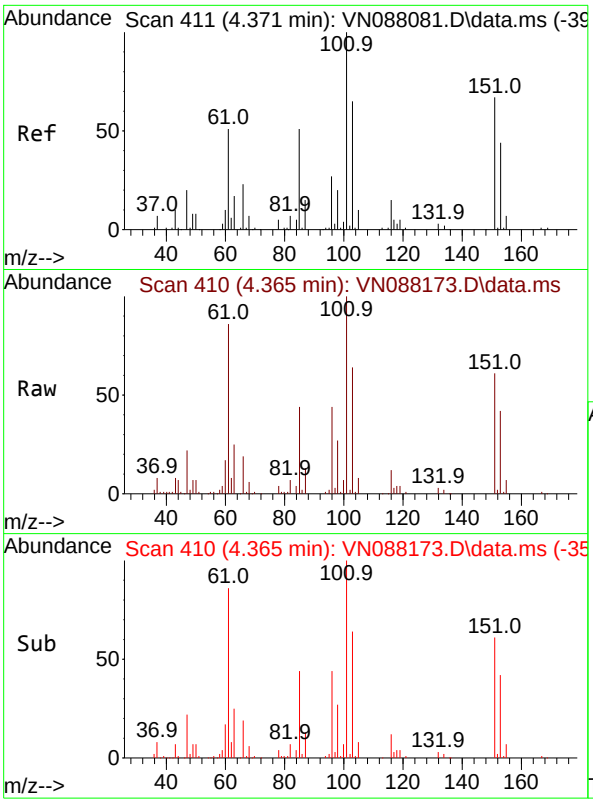


#8
Diethyl Ether
Concen: 54.129 ug/l
RT: 3.959 min Scan# 341
Delta R.T. 0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 74 Resp: 139359

Ion	Ratio	Lower	Upper
74	100		
45	102.6	50.6	151.9





#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.834 ug/l
RT: 4.365 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

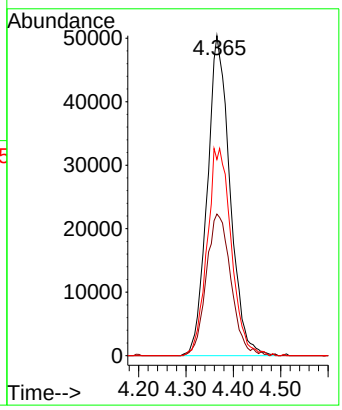
Tgt Ion:101 Resp: 16741

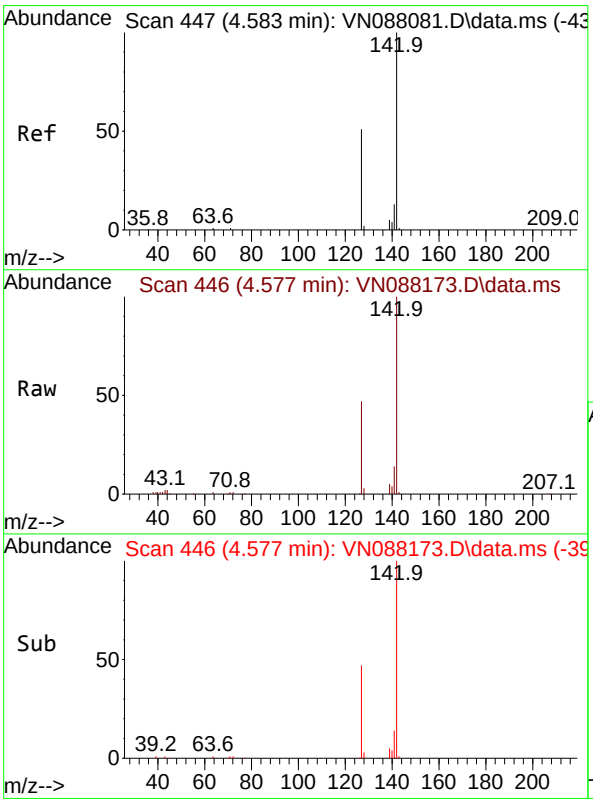
Ion	Ratio	Lower	Upper
101	100		
85	48.1	36.6	55.0
151	69.1	54.7	82.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

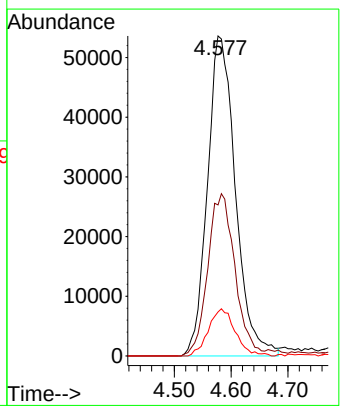


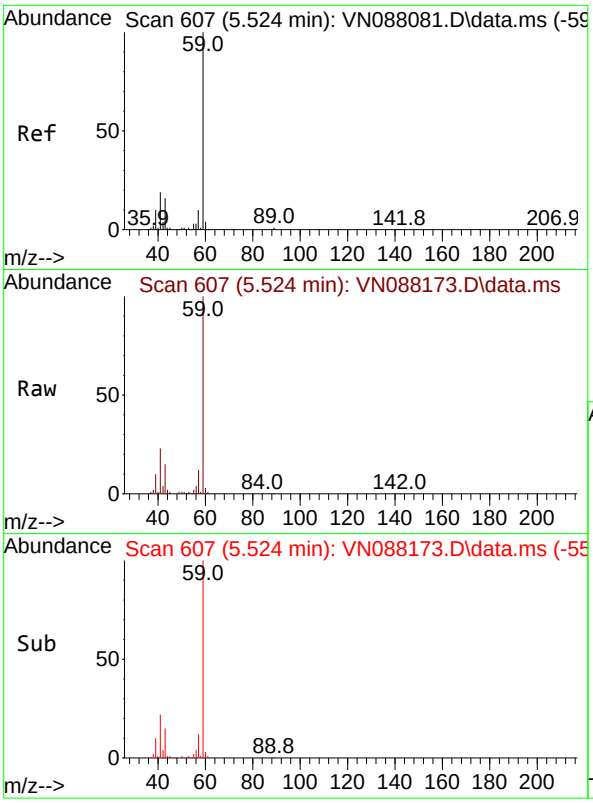


#10
Methyl Iodide
Concen: 51.882 ug/l
RT: 4.577 min Scan# 446
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:142 Resp: 183501

Ion	Ratio	Lower	Upper
142	100		
127	47.2	38.0	57.0
141	13.7	12.0	18.0





#11
Tert butyl alcohol
Concen: 294.201 ug/l
RT: 5.524 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

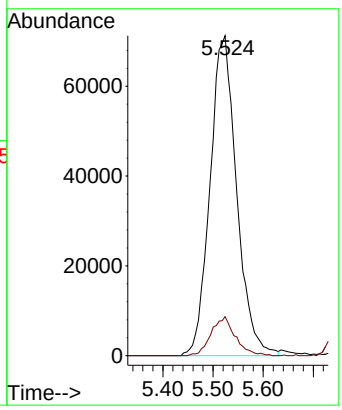
Tgt Ion: 59 Resp: 26326

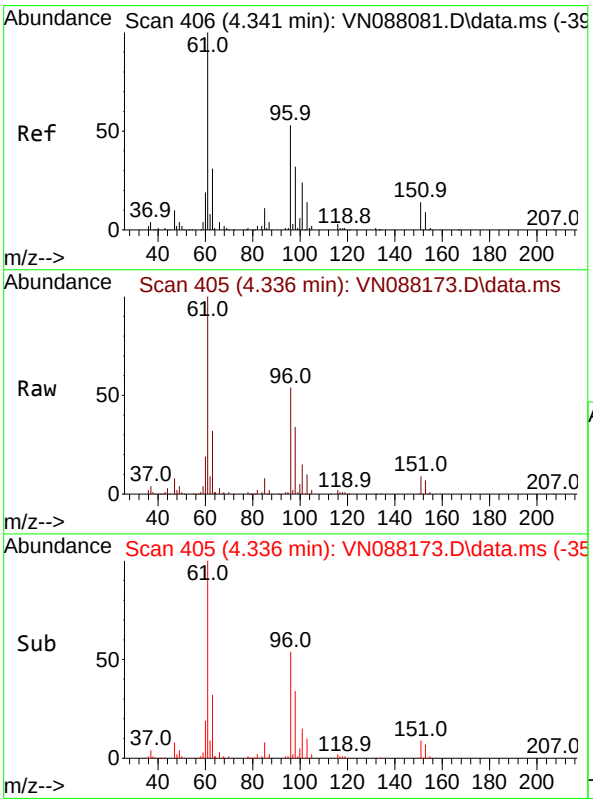
Ion	Ratio	Lower	Upper
59	100		
57	11.1	9.0	13.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

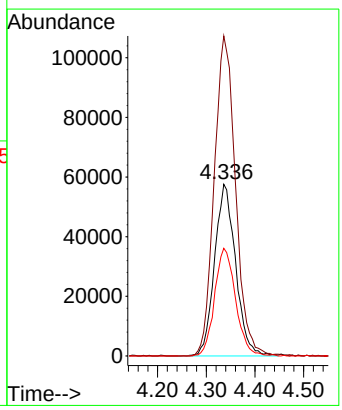


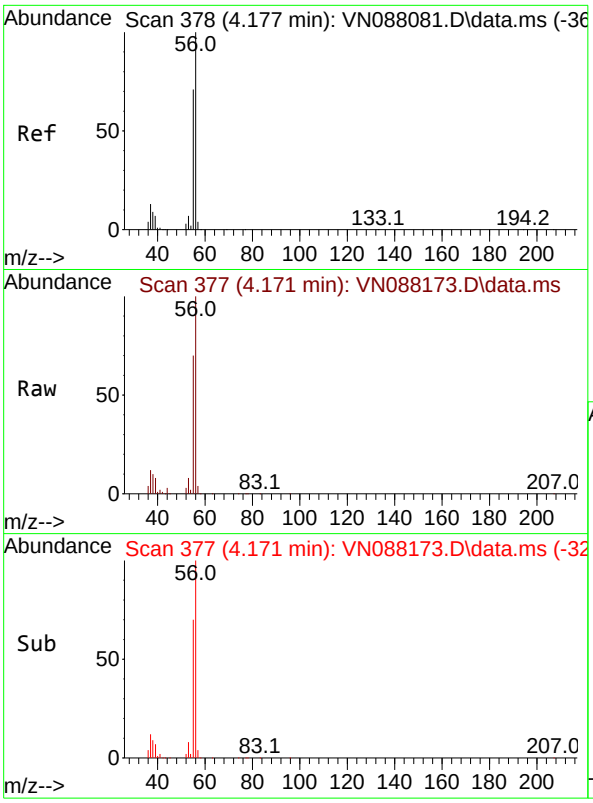


#12
1,1-Dichloroethene
Concen: 45.919 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 96 Resp: 173362

Ion	Ratio	Lower	Upper
96	100		
61	186.3	143.8	215.8
98	62.7	52.1	78.1

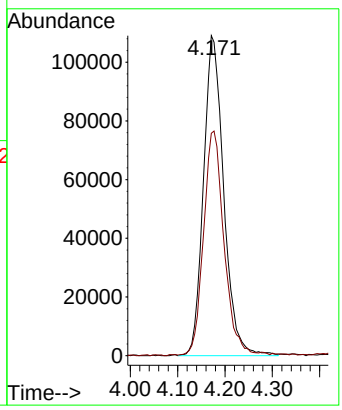




#13
Acrolein
Concen: 320.945 ug/l
RT: 4.171 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 56 Resp: 32304

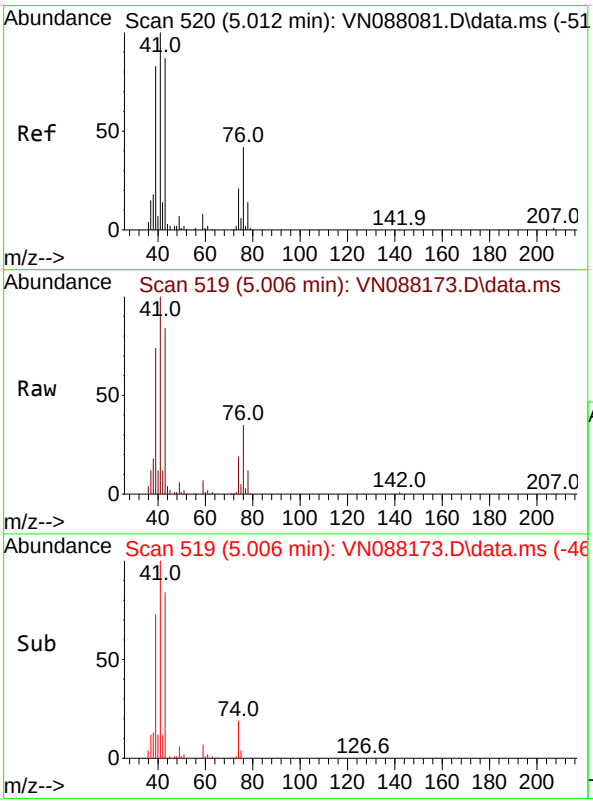
Ion	Ratio	Lower	Upper
56	100		
55	70.3	57.3	85.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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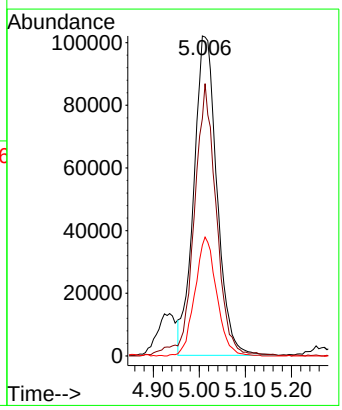
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

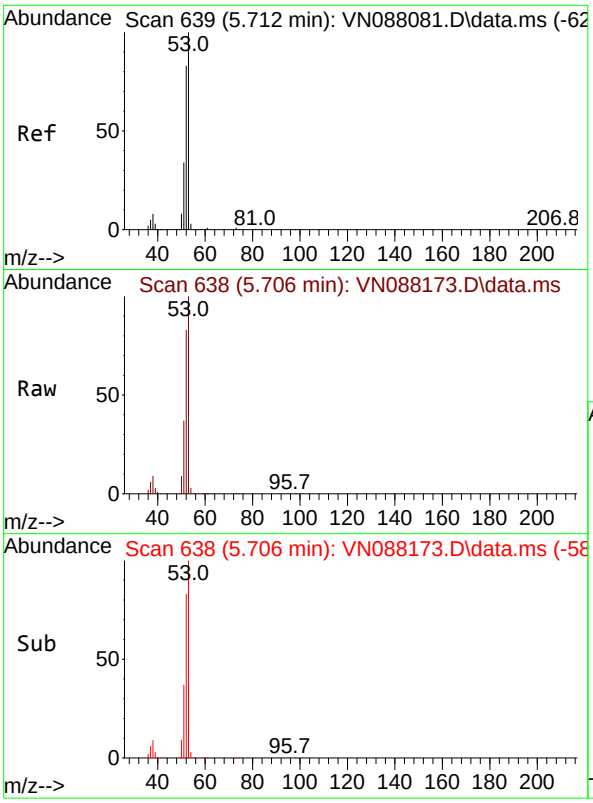


#14
Allyl chloride
Concen: 53.916 ug/l
RT: 5.006 min Scan# 519
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 41 Resp: 356784

Ion	Ratio	Lower	Upper
41	100		
39	81.0	63.9	95.9
76	35.1	28.1	42.1

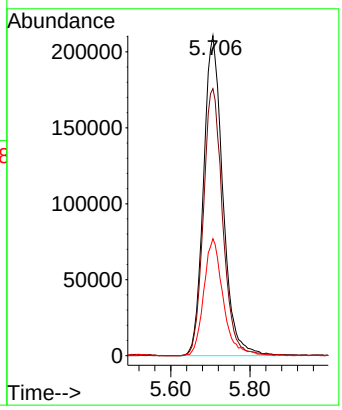




#15
Acrylonitrile
Concen: 292.005 ug/l
RT: 5.706 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 53 Resp: 71176

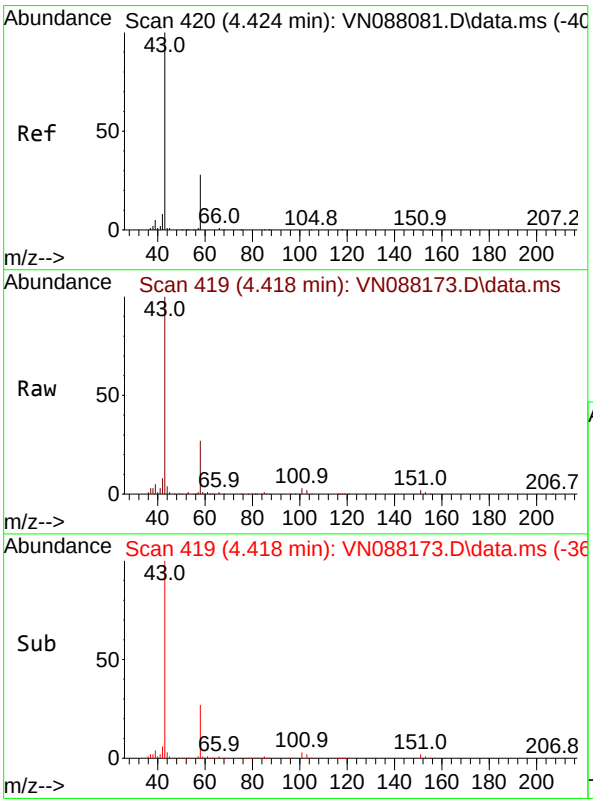
Ion	Ratio	Lower	Upper
53	100		
52	83.3	67.6	101.4
51	36.8	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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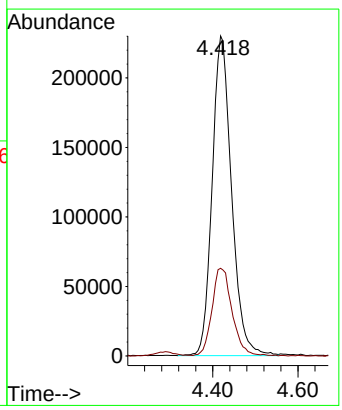
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

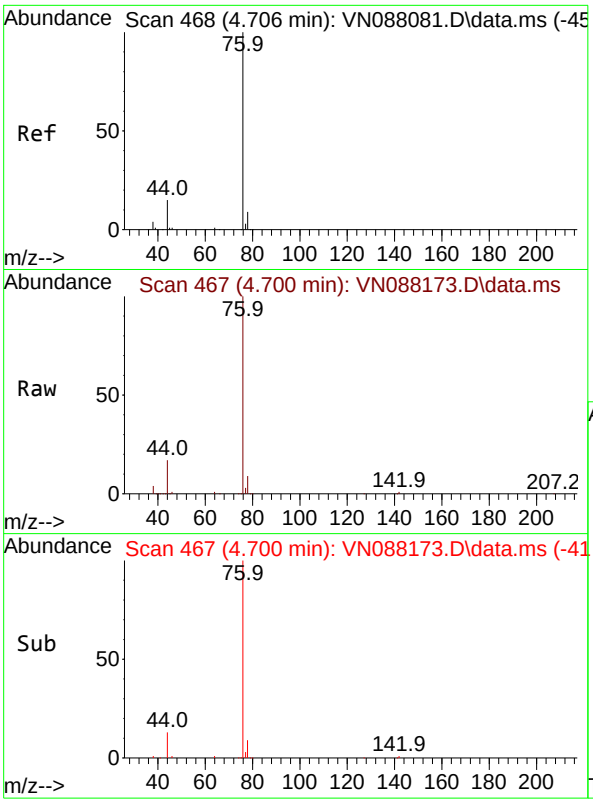


#16
Acetone
Concen: 278.469 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 43 Resp: 726656

Ion	Ratio	Lower	Upper
43	100		
58	27.3	22.6	33.8

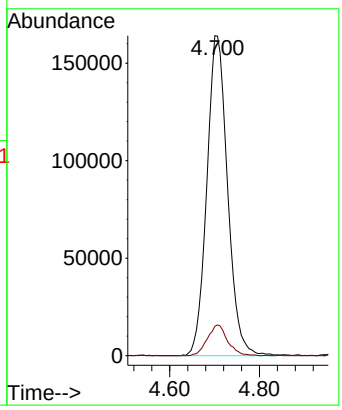




#17
Carbon Disulfide
Concen: 45.907 ug/l
RT: 4.700 min Scan# 4
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 76 Resp: 52686

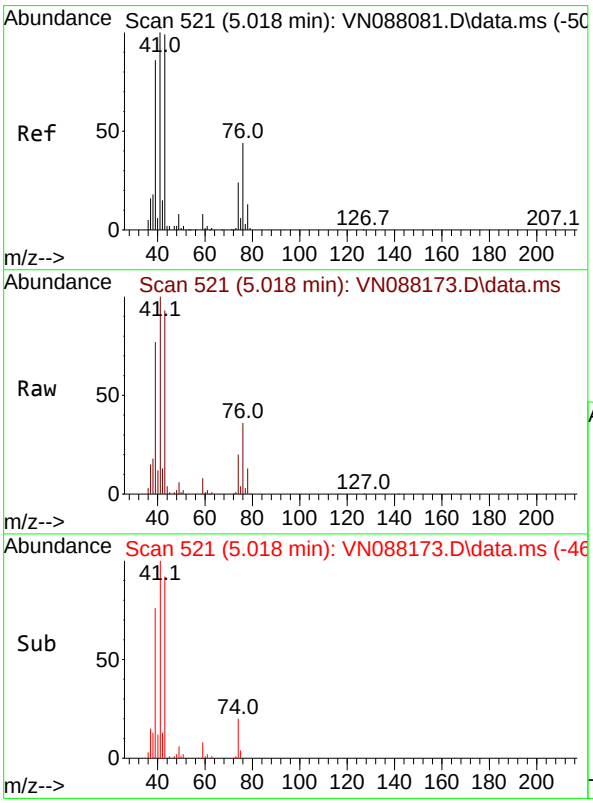
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.6	11.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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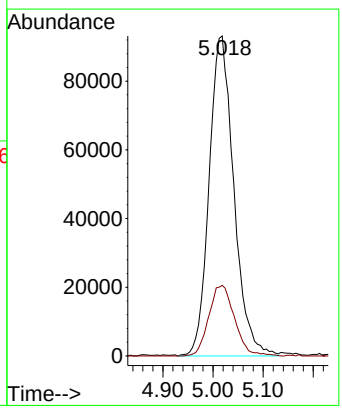
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

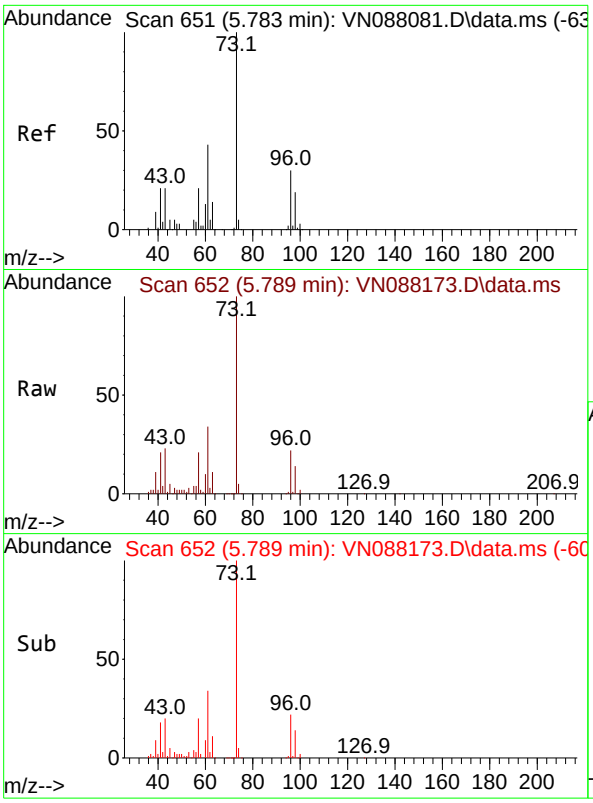


#18
Methyl Acetate
Concen: 59.739 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 43 Resp: 319139

Ion	Ratio	Lower	Upper
43	100		
74	23.0	17.6	26.4

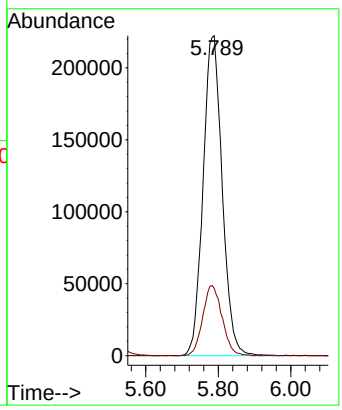




#19
Methyl tert-butyl Ether
Concen: 58.675 ug/l
RT: 5.789 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

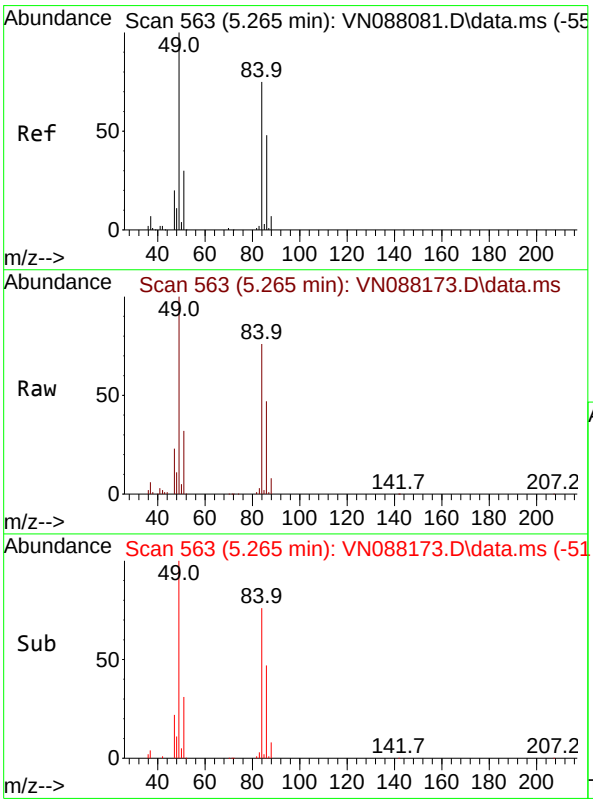
Tgt Ion: 73 Resp: 81352

Ion	Ratio	Lower	Upper
73	100		
57	21.1	18.4	27.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

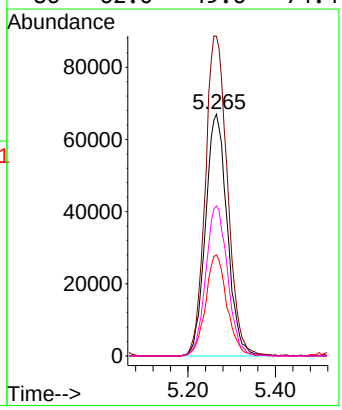
Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

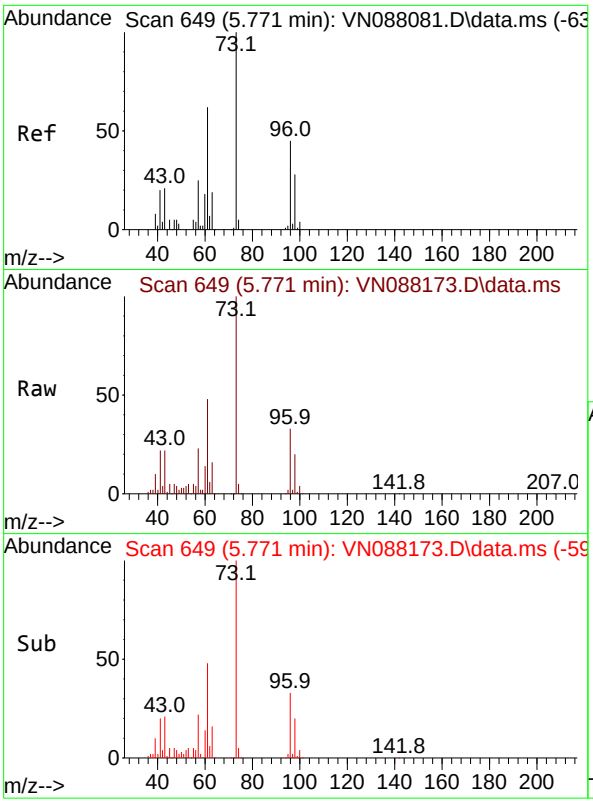


#20
Methylene Chloride
Concen: 56.820 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 84 Resp: 231212

Ion	Ratio	Lower	Upper
84	100		
49	132.2	103.4	155.2
51	41.8	33.8	50.8
86	62.0	49.6	74.4

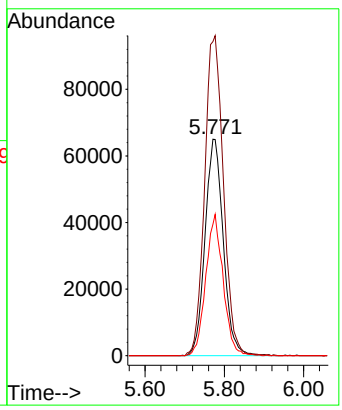




#21
trans-1,2-Dichloroethene
Concen: 50.180 ug/l
RT: 5.771 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 96 Resp: 20795

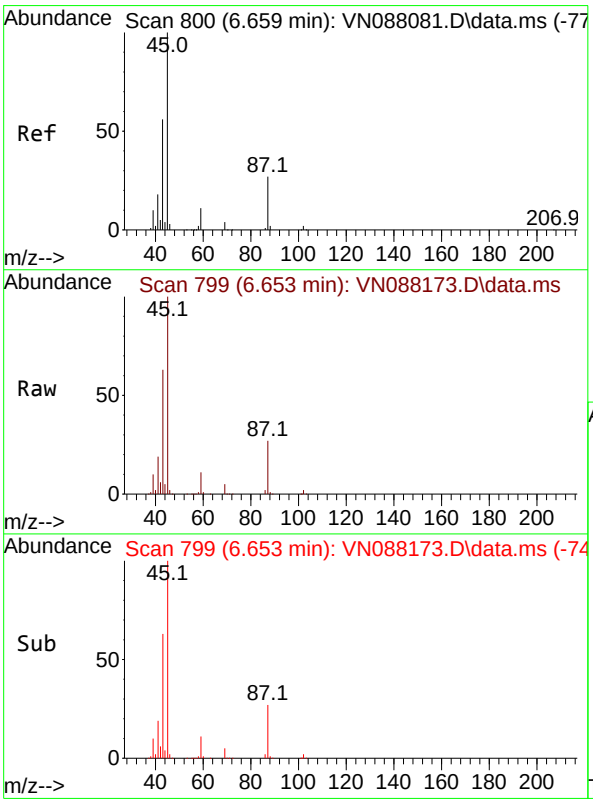
Ion	Ratio	Lower	Upper
96	100		
61	145.1	118.0	177.0
98	60.7	50.0	75.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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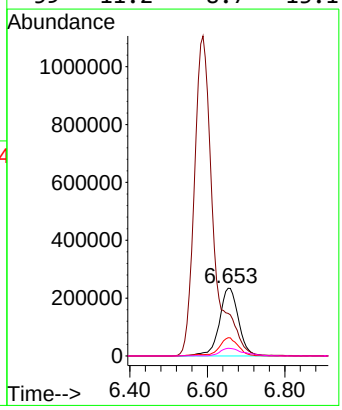
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

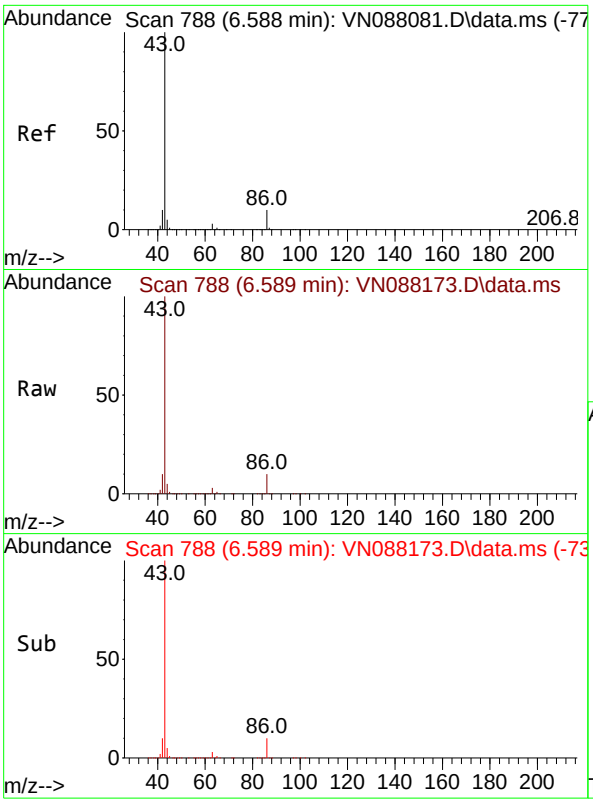


#22
Diisopropyl ether
Concen: 57.733 ug/l
RT: 6.653 min Scan# 799
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 45 Resp: 803453

Ion	Ratio	Lower	Upper
45	100		
43	61.9	47.7	71.5
87	26.9	21.4	32.0
59	11.2	8.7	13.1

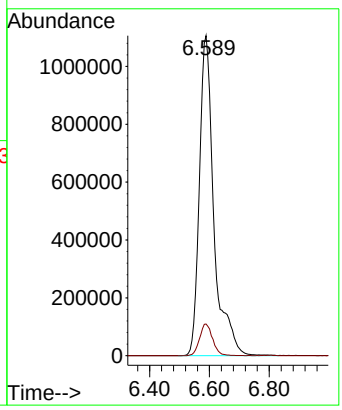




#23
Vinyl Acetate
Concen: 297.911 ug/l
RT: 6.589 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 43 Resp: 373460

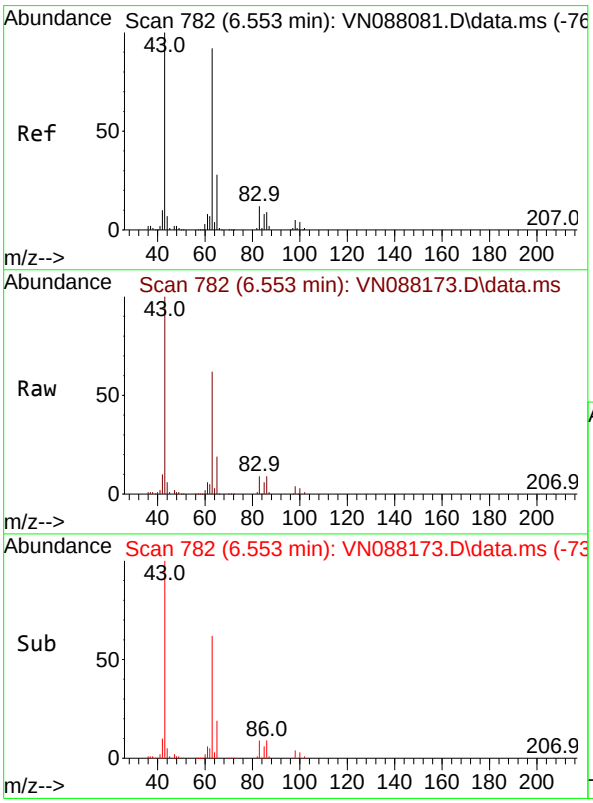
Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.2	12.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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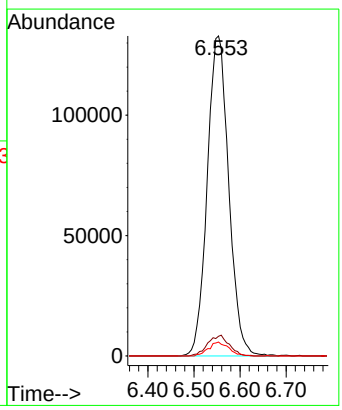
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

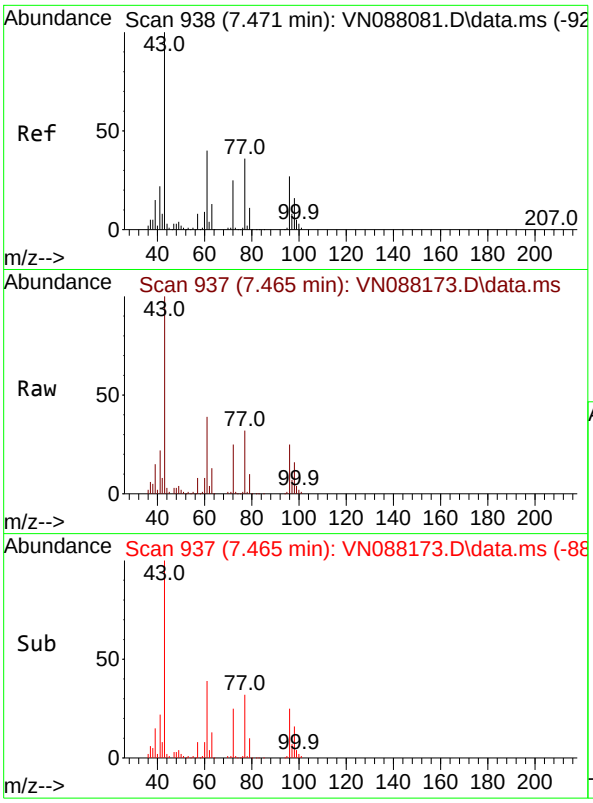


#24
1,1-Dichloroethane
Concen: 55.910 ug/l
RT: 6.553 min Scan# 782
Delta R.T. 0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 63 Resp: 431014

Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.8	11.4
100	4.4	2.0	6.0

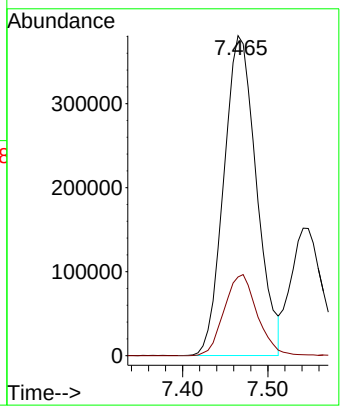




#25
2-Butanone
Concen: 295.337 ug/l
RT: 7.465 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

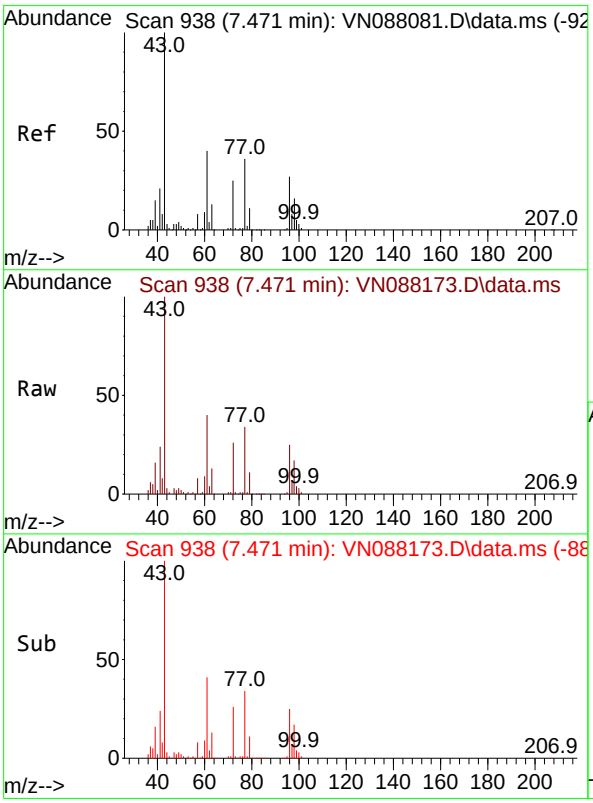
Tgt Ion: 43 Resp: 101563

Ion	Ratio	Lower	Upper
43	100		
72	24.6	19.9	29.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

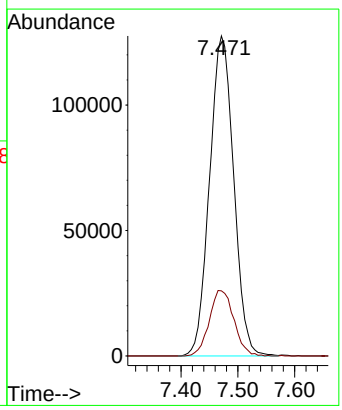
Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

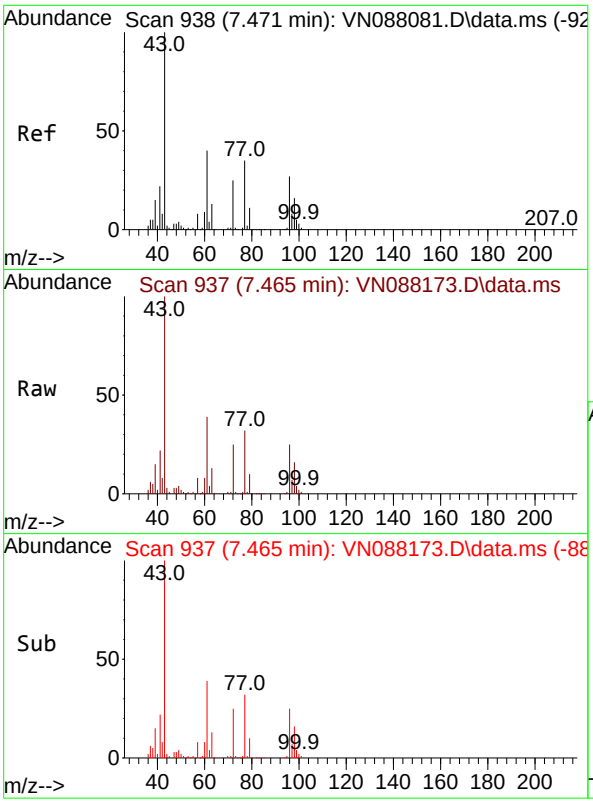


#26
2,2-Dichloropropane
Concen: 53.739 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 77 Resp: 376472

Ion	Ratio	Lower	Upper
77	100		
97	20.8	10.9	32.7

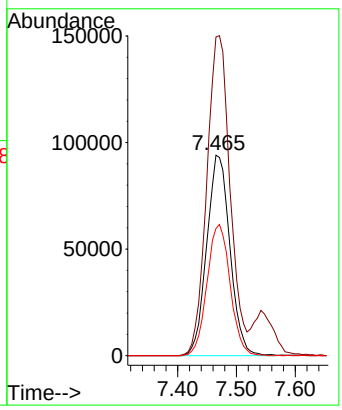




#27
cis-1,2-Dichloroethene
Concen: 54.132 ug/l
RT: 7.465 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 96 Resp: 25824

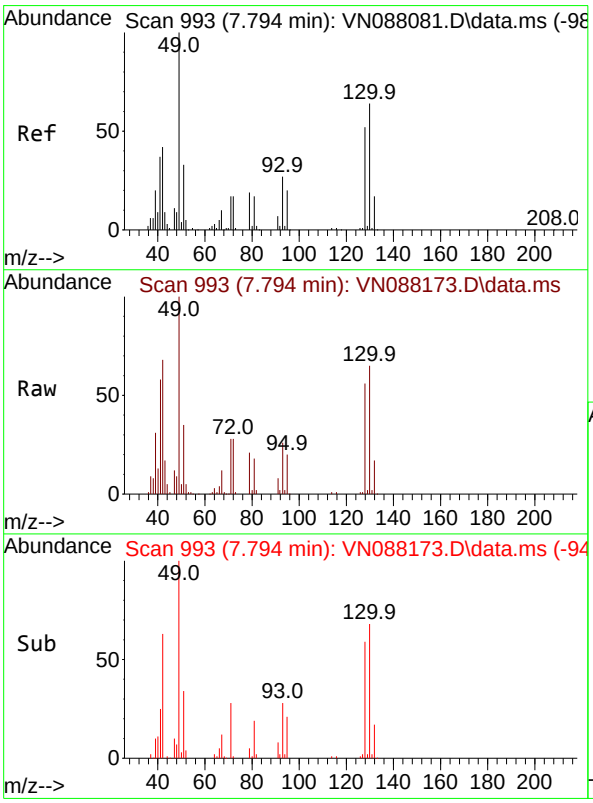
Ion	Ratio	Lower	Upper
96	100		
61	159.8	0.0	301.8
98	65.1	0.0	126.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

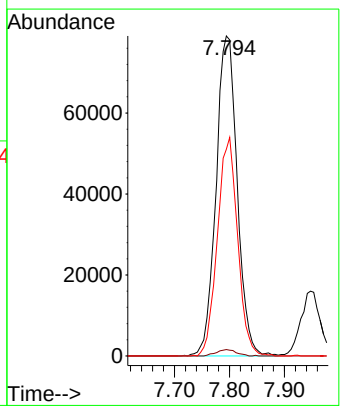
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

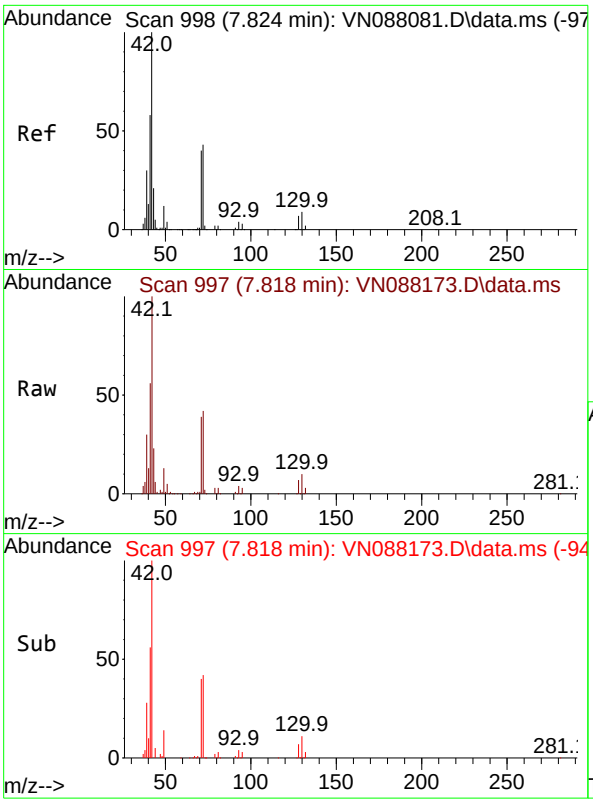


#28
Bromochloromethane
Concen: 58.085 ug/l
RT: 7.794 min Scan# 993
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 49 Resp: 211578

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.0
130	65.2	53.1	79.7

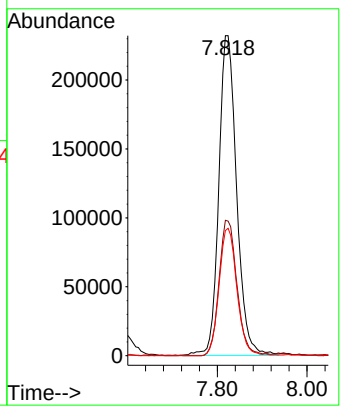




#29
Tetrahydrofuran
Concen: 285.379 ug/l
RT: 7.818 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 42 Resp: 63957

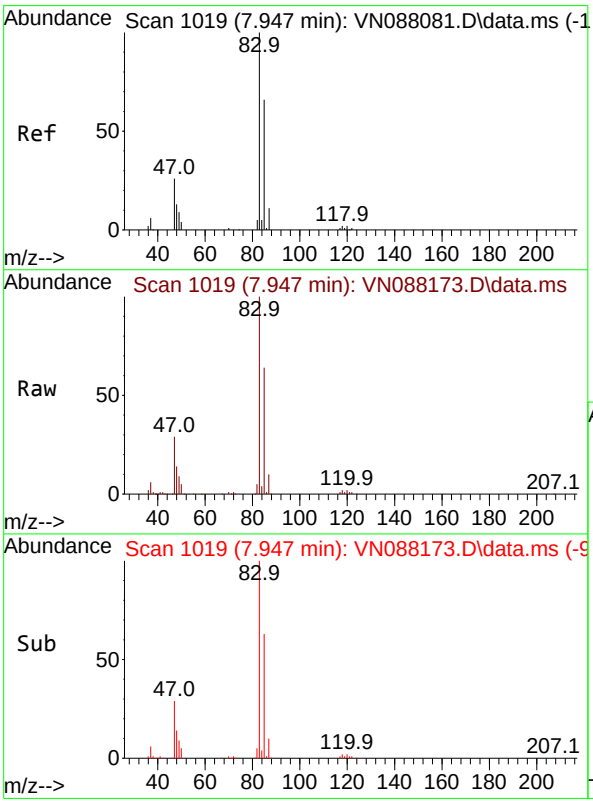
Ion	Ratio	Lower	Upper
42	100		
72	42.7	33.7	50.5
71	39.8	31.9	47.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

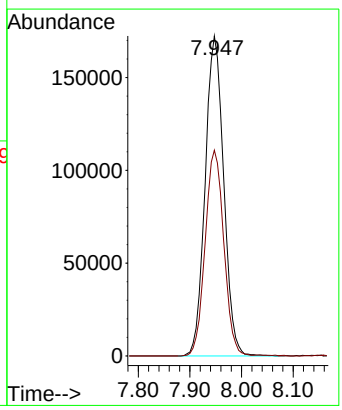
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

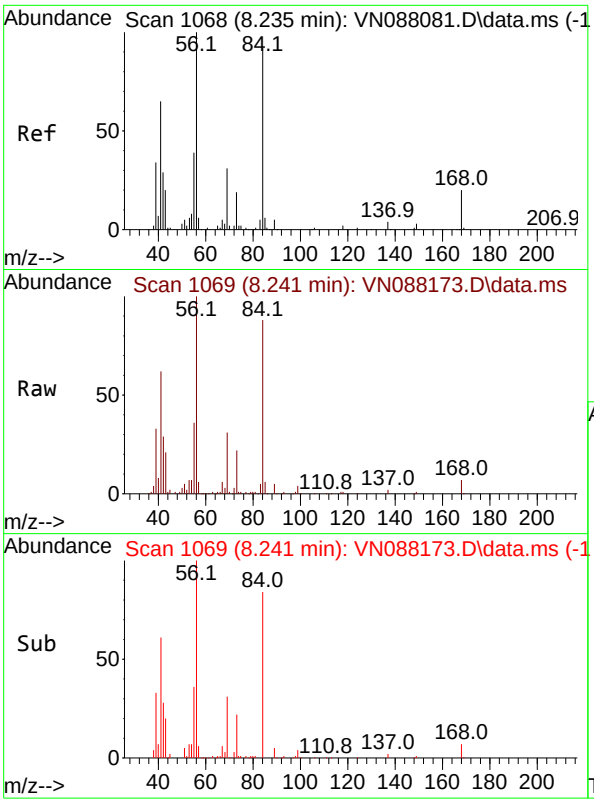


#30
Chloroform
Concen: 55.749 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 83 Resp: 429348

Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.7	76.1

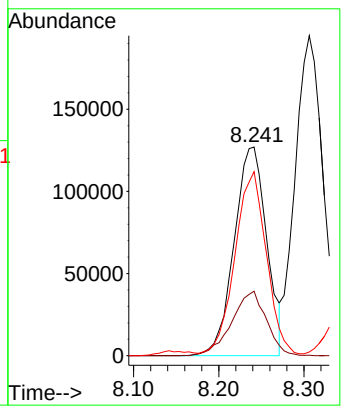




#31
Cyclohexane
Concen: 46.389 ug/l
RT: 8.241 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 56 Resp: 33728

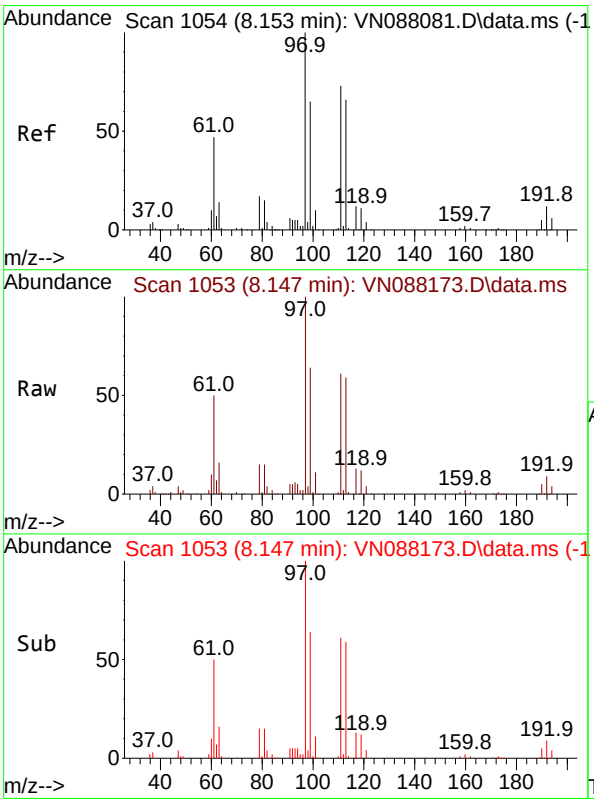
Ion	Ratio	Lower	Upper
56	100		
69	31.0	23.7	35.5
84	86.2	64.7	97.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

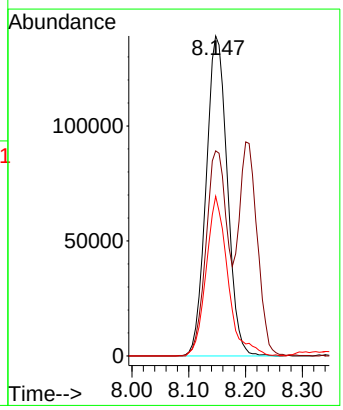
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

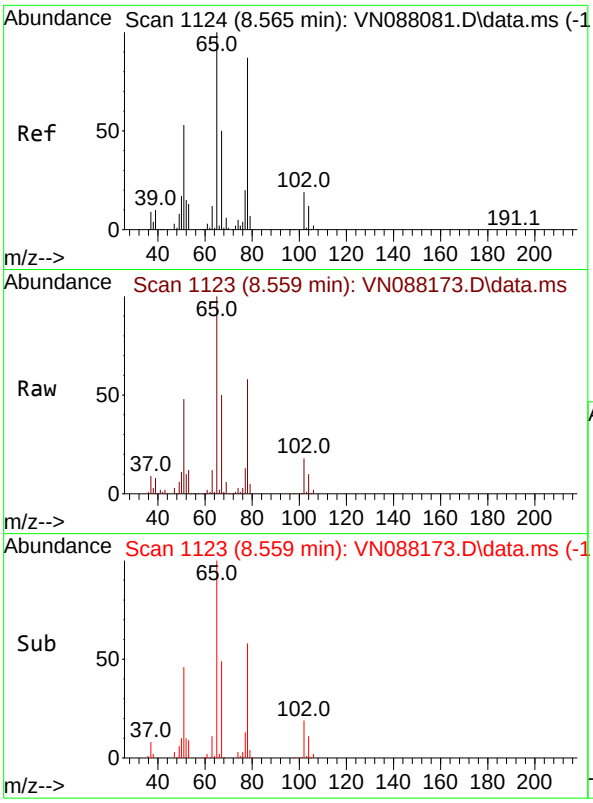


#32
1,1,1-Trichloroethane
Concen: 52.437 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 97 Resp: 359682

Ion	Ratio	Lower	Upper
97	100		
99	64.6	52.2	78.2
61	51.3	41.2	61.8

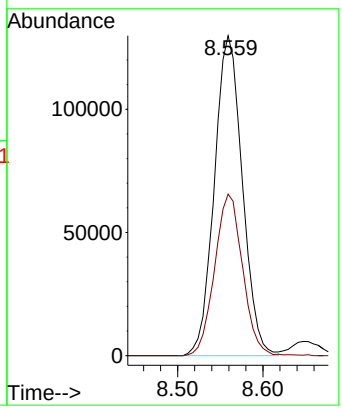




#33
1,2-Dichloroethane-d4
Concen: 57.041 ug/l
RT: 8.559 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 65 Resp: 29627

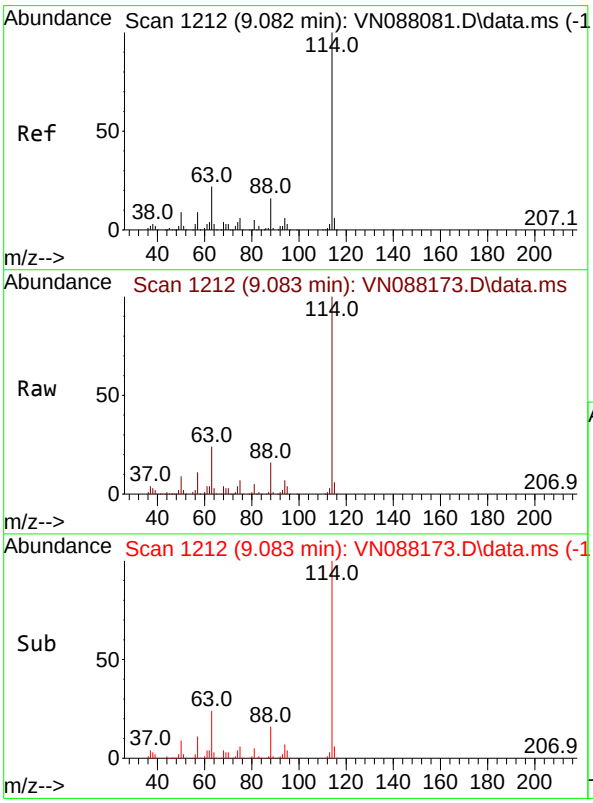
Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	100.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

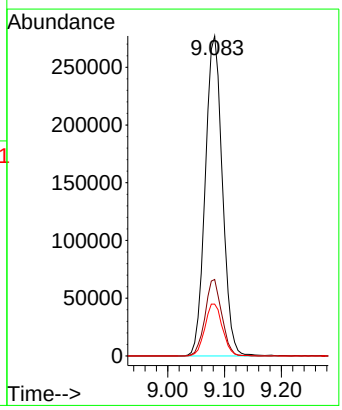
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

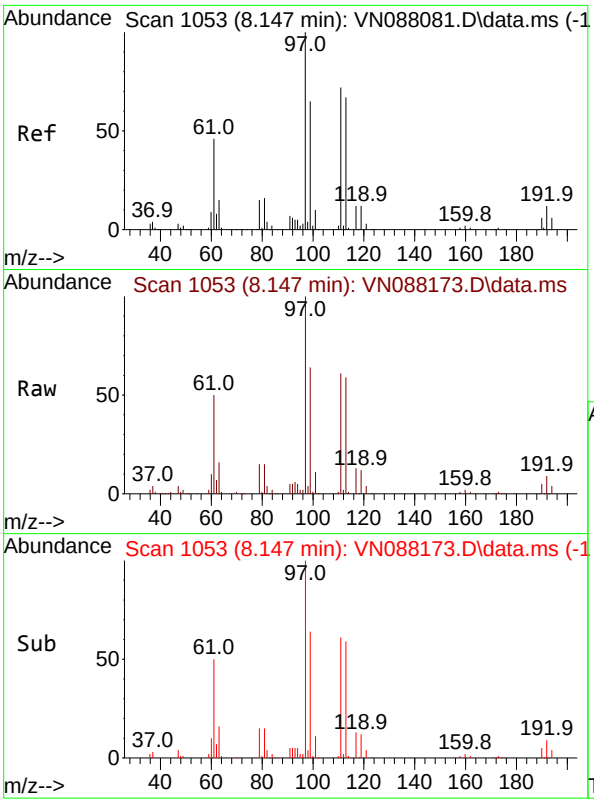


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:114 Resp: 578571

Ion	Ratio	Lower	Upper
114	100		
63	23.9	0.0	45.2
88	16.2	0.0	33.4

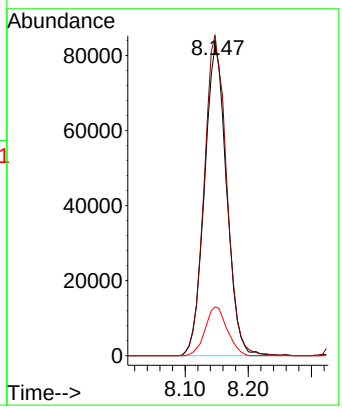




#35
Dibromofluoromethane
Concen: 51.793 ug/l
RT: 8.147 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:113 Resp: 20131

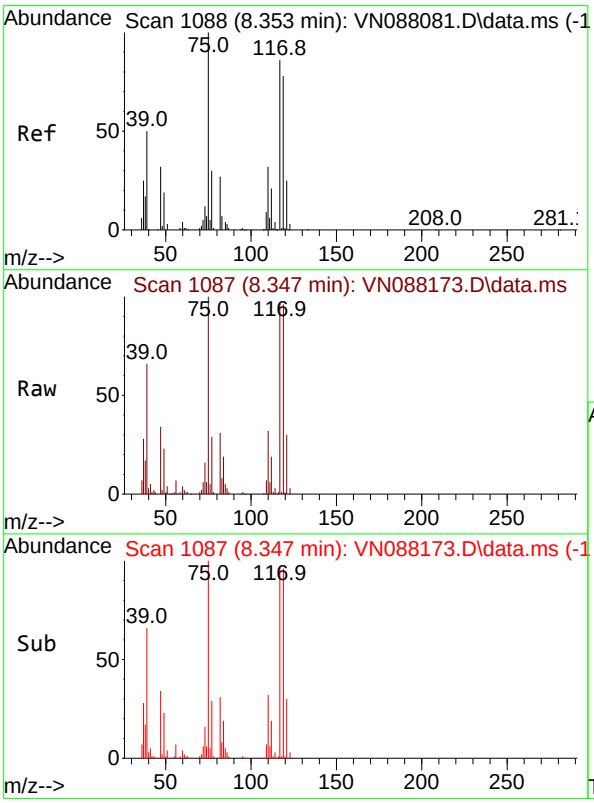
Ion	Ratio	Lower	Upper
113	100		
111	104.5	82.8	124.2
192	15.7	12.8	19.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

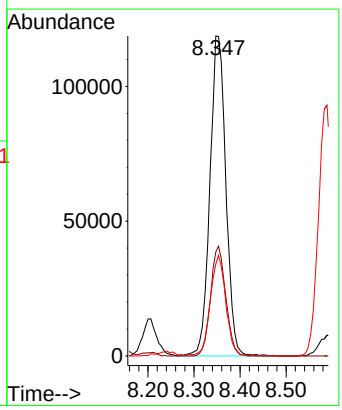
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

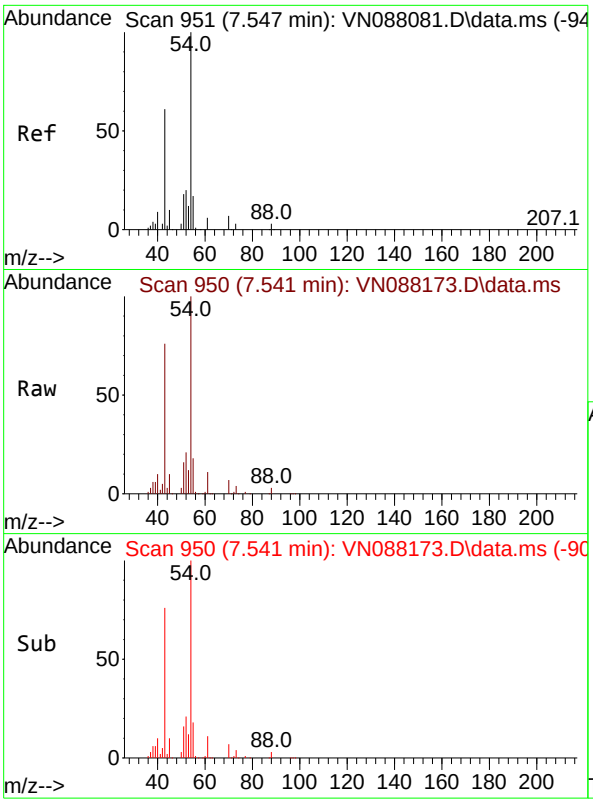


#36
1,1-Dichloropropene
Concen: 50.368 ug/l
RT: 8.347 min Scan# 1087
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 75 Resp: 285851

Ion	Ratio	Lower	Upper
75	100		
110	32.5	15.9	47.6
77	30.5	24.4	36.6





#37
Ethyl Acetate
Concen: 55.713 ug/l
RT: 7.541 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

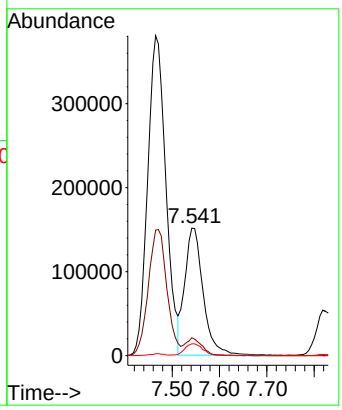
Tgt Ion: 43 Resp: 40803

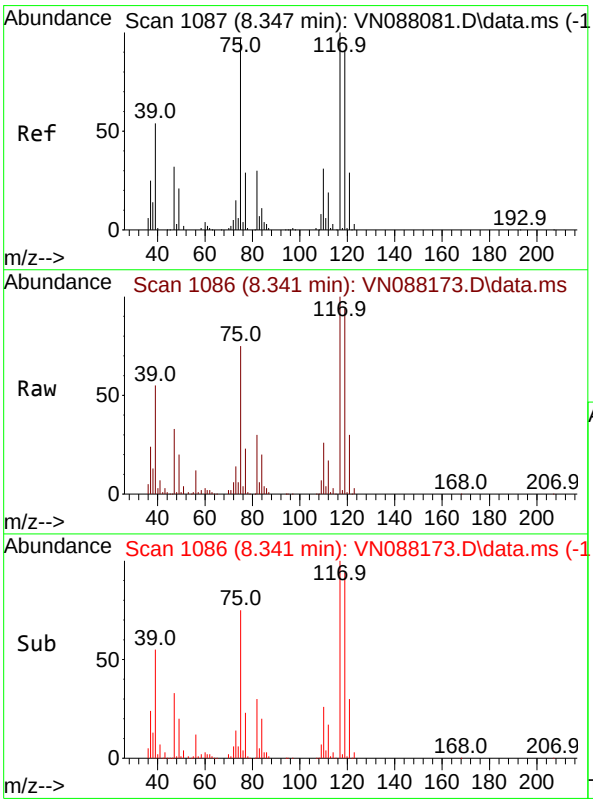
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.3	13.9
70	9.5	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

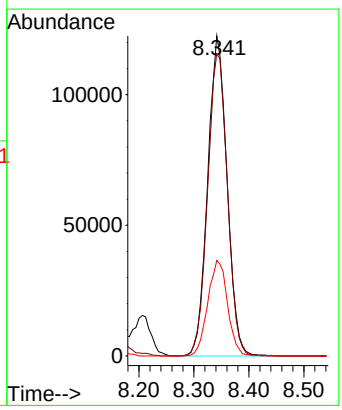


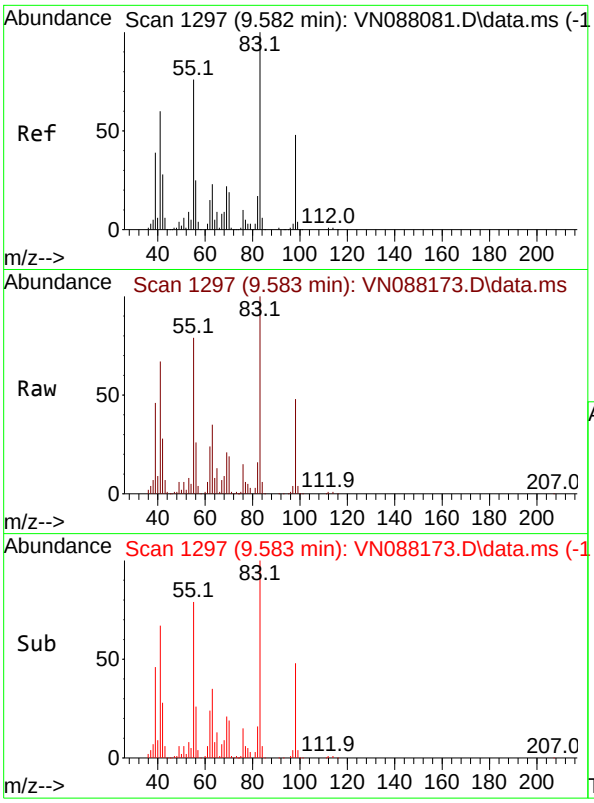


#38
Carbon Tetrachloride
Concen: 51.098 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:117 Resp: 299517

Ion	Ratio	Lower	Upper
117	100		
119	94.4	79.0	118.6
121	29.9	25.0	37.6

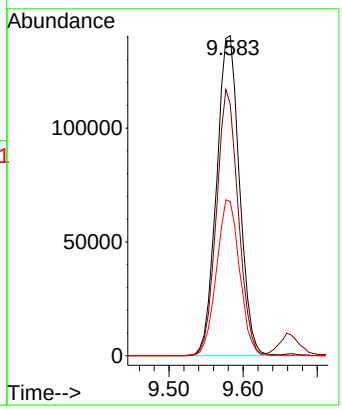




#39
Methylcyclohexane
Concen: 41.340 ug/l
RT: 9.583 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 83 Resp: 30157

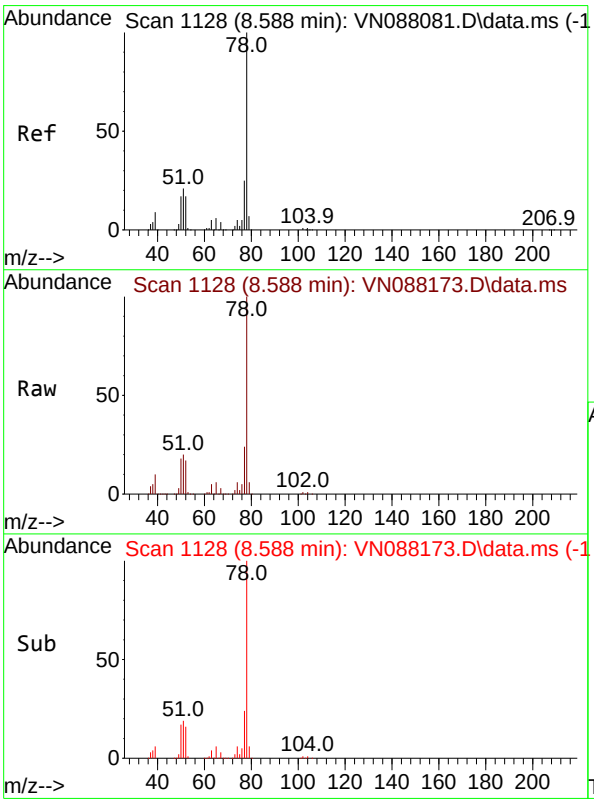
Ion	Ratio	Lower	Upper
83	100		
55	78.7	64.6	96.8
98	48.2	38.4	57.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

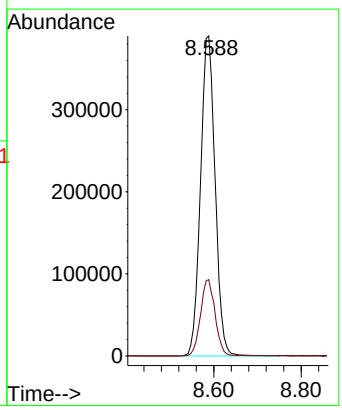
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

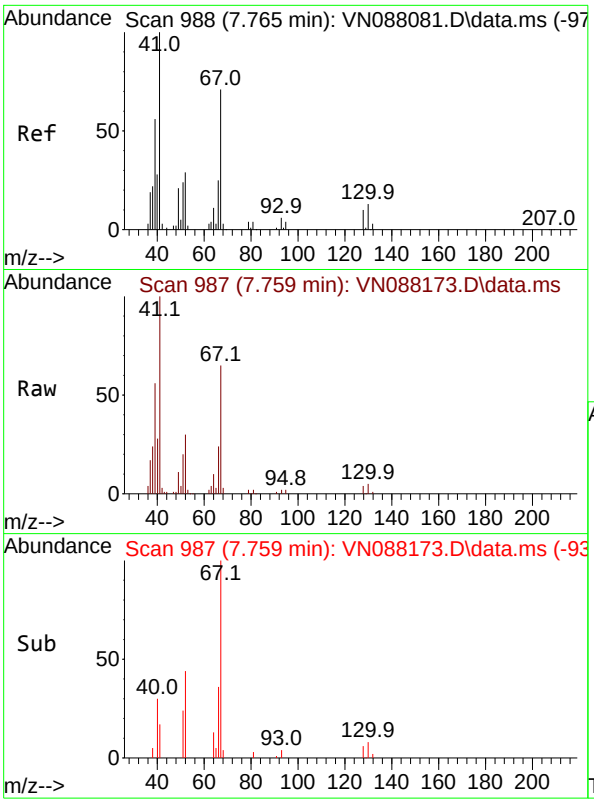


#40
Benzene
Concen: 52.459 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 78 Resp: 906694

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.7	29.5

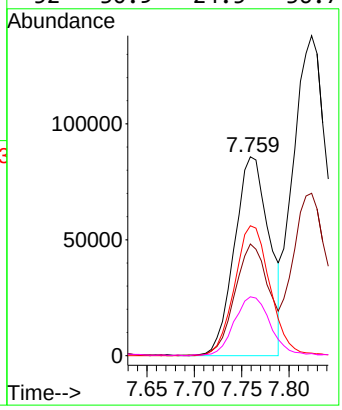




#41
Methacrylonitrile
Concen: 57.090 ug/l
RT: 7.759 min Scan# 9
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 41 Resp: 22006

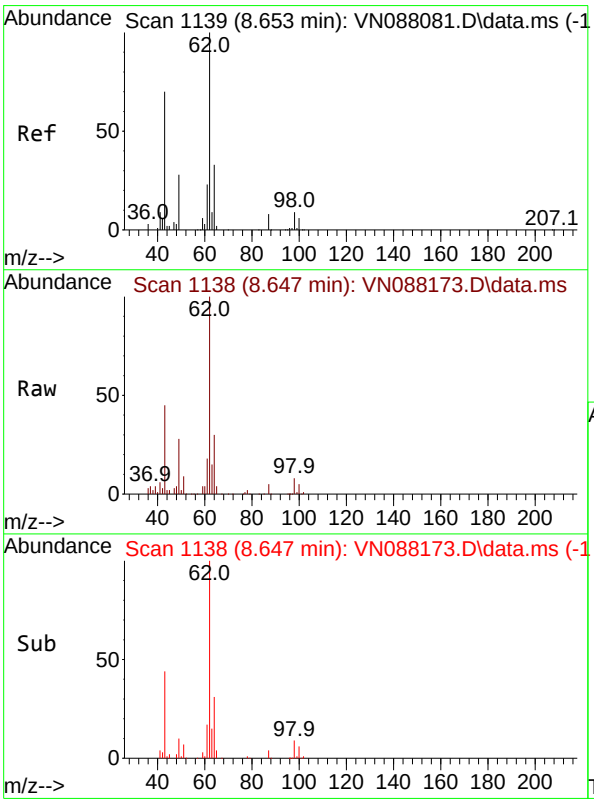
Ion	Ratio	Lower	Upper
41	100		
39	55.1	45.4	68.0
67	66.9	55.3	82.9
52	30.9	24.5	36.7



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

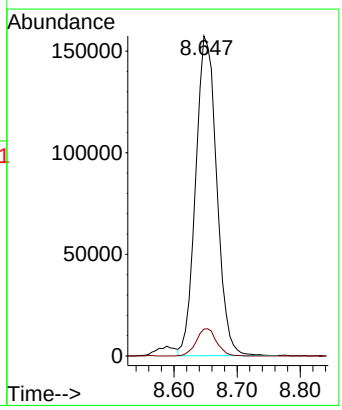
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

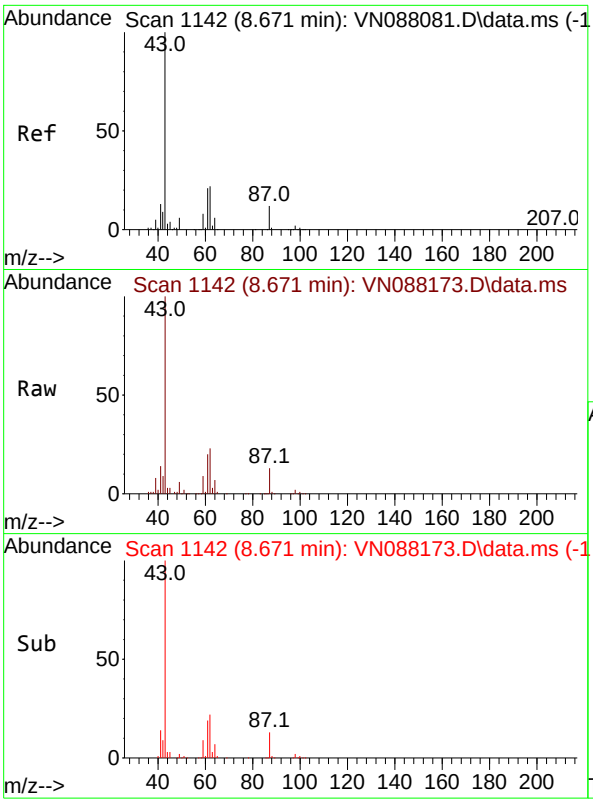


#42
1,2-Dichloroethane
Concen: 59.258 ug/l
RT: 8.647 min Scan# 1138
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 62 Resp: 363916

Ion	Ratio	Lower	Upper
62	100		
98	8.3	0.0	17.4

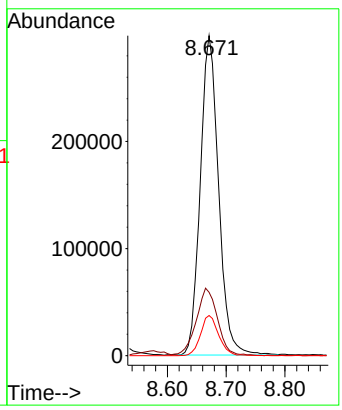




#43
Isopropyl Acetate
Concen: 57.311 ug/l
RT: 8.671 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 43 Resp: 64497

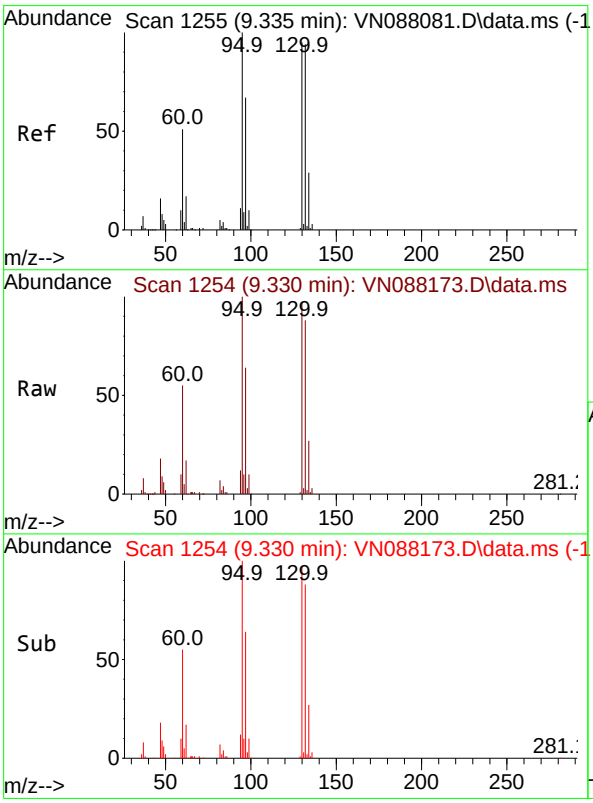
Ion	Ratio	Lower	Upper
43	100		
61	24.7	18.8	28.2
87	12.5	9.6	14.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

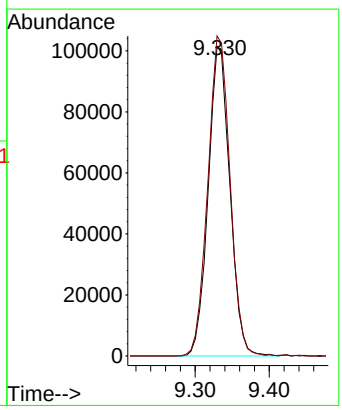
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

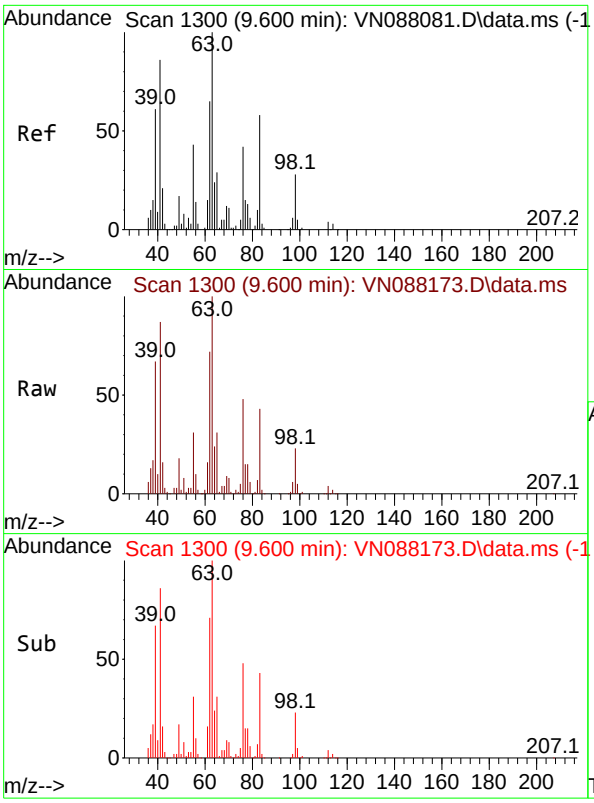


#44
Trichloroethene
Concen: 50.951 ug/l
RT: 9.330 min Scan# 1254
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:130 Resp: 205838

Ion	Ratio	Lower	Upper
130	100		
95	103.4	0.0	212.0

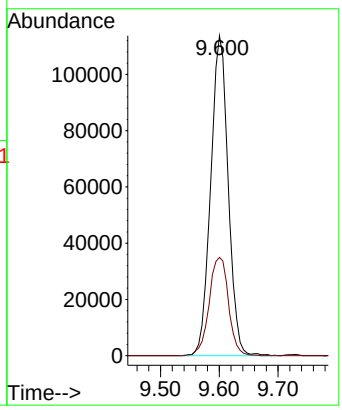




#45
1,2-Dichloropropane
Concen: 53.869 ug/l
RT: 9.600 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

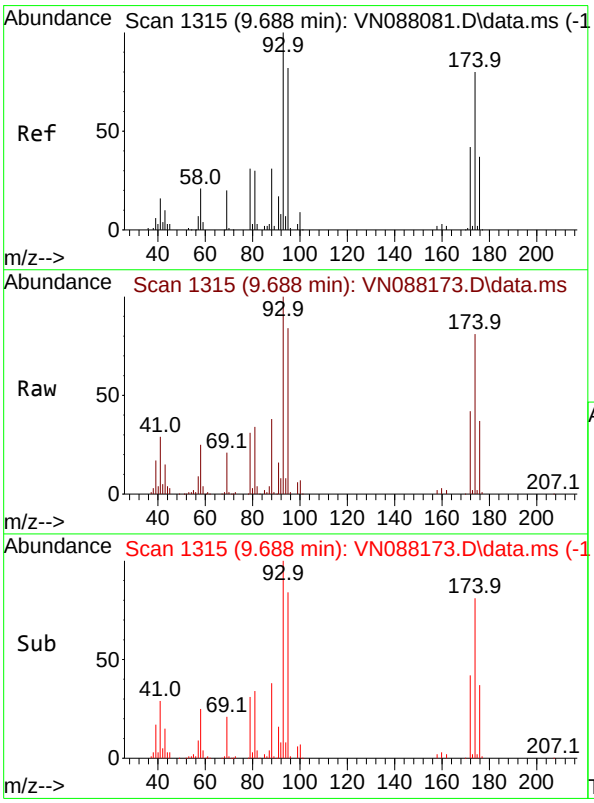
Tgt Ion: 63 Resp: 23505

Ion	Ratio	Lower	Upper
63	100		
65	30.7	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

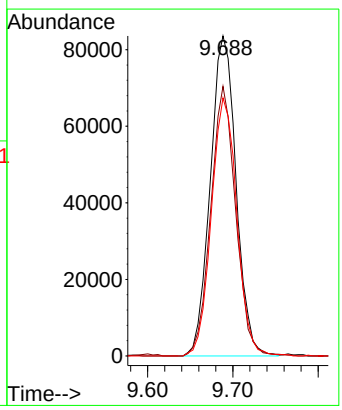
Manual Integrations
APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

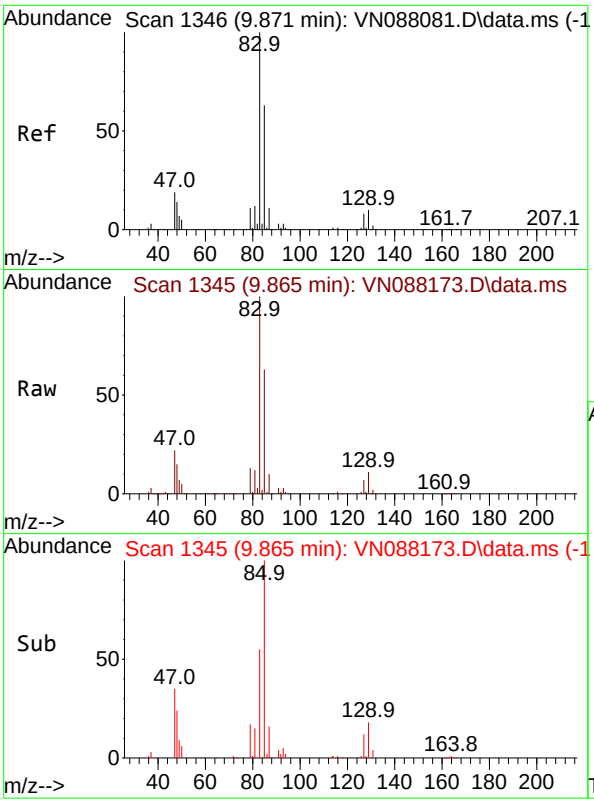


#46
Dibromomethane
Concen: 56.451 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 93 Resp: 175678

Ion	Ratio	Lower	Upper
93	100		
95	81.3	66.2	99.4
174	79.8	63.4	95.2

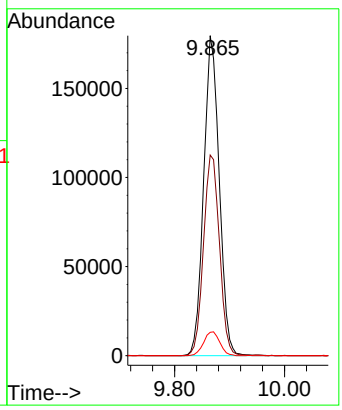




#47
Bromodichloromethane
Concen: 56.590 ug/l
RT: 9.865 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 83 Resp: 35259

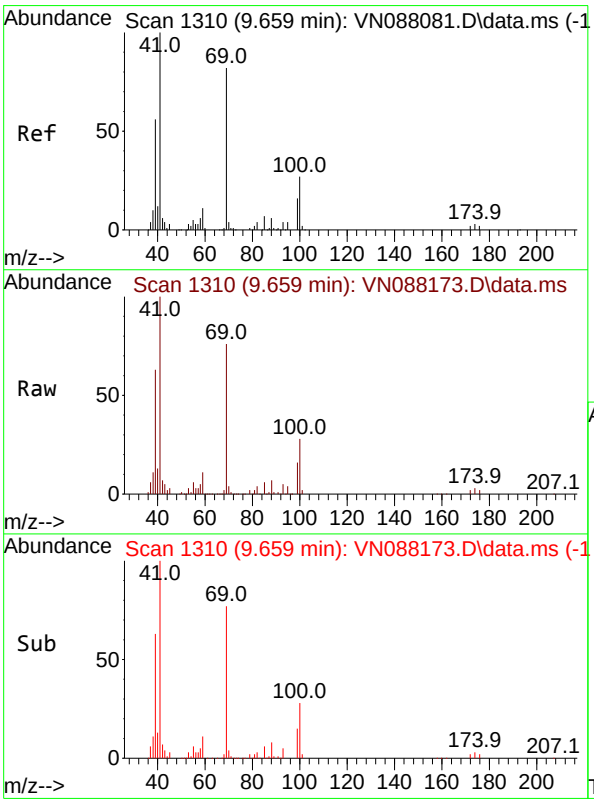
Ion	Ratio	Lower	Upper
83	100		
85	62.7	52.5	78.7
127	7.3	5.8	8.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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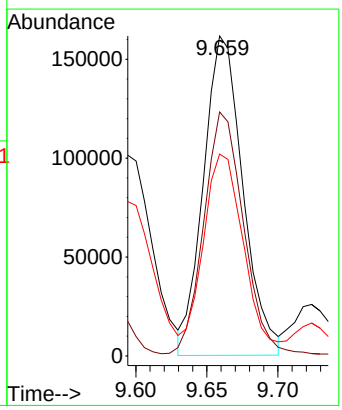
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

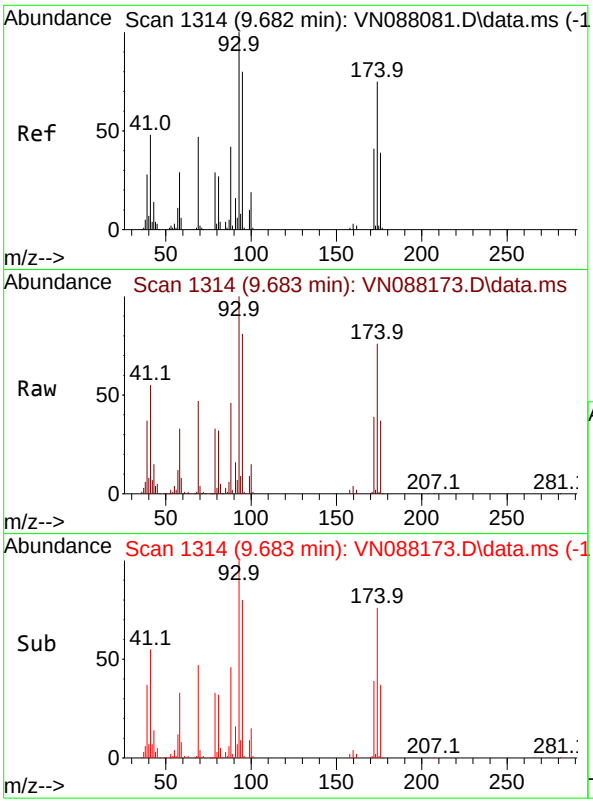


#48
Methyl methacrylate
Concen: 60.107 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 41 Resp: 312301

Ion	Ratio	Lower	Upper
41	100		
69	77.8	62.7	94.1
39	65.1	52.9	79.3





#49
1,4-Dioxane
Concen: 1346.410 ug/l
RT: 9.683 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

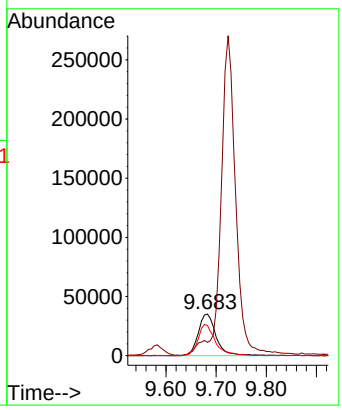
Tgt Ion: 88 Resp: 8700

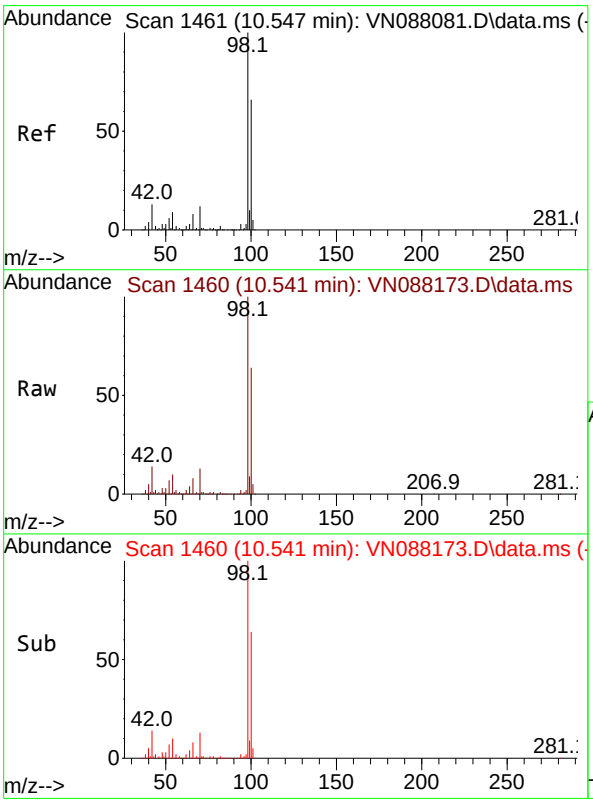
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	73.5	57.9	86.9

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

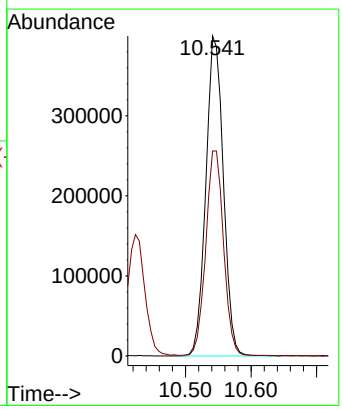


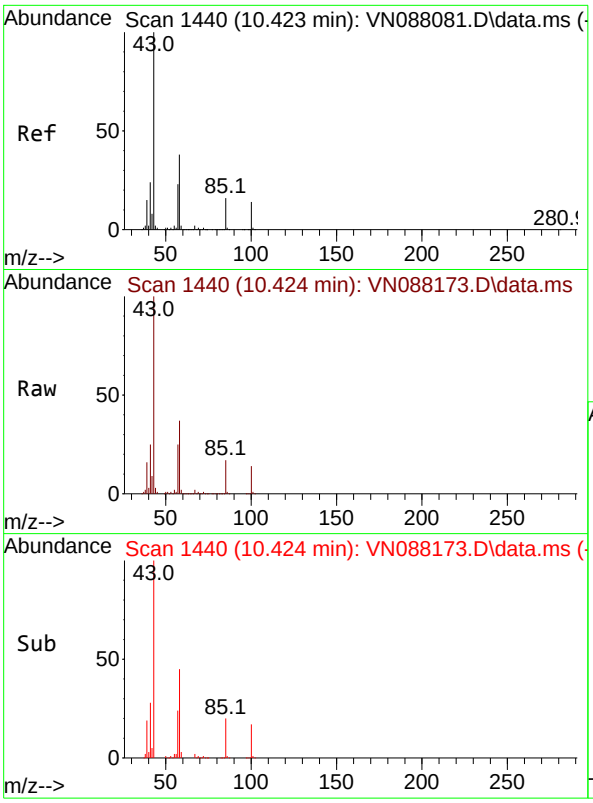


#50
Toluene-d8
Concen: 49.594 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 98 Resp: 742755

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.8	79.2

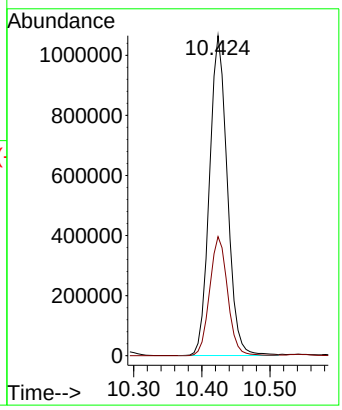




#51
4-Methyl-2-Pentanone
Concen: 292.374 ug/l
RT: 10.424 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

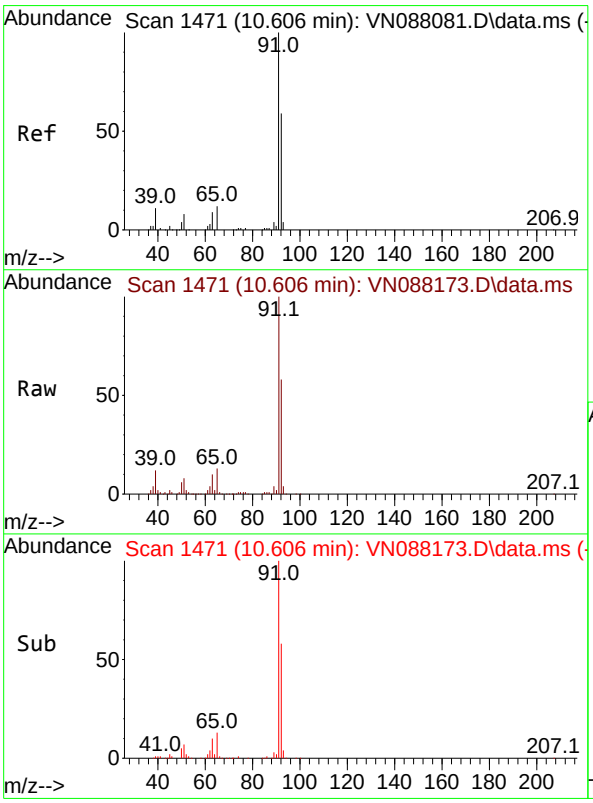
Tgt Ion: 43 Resp: 194653

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.6	44.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

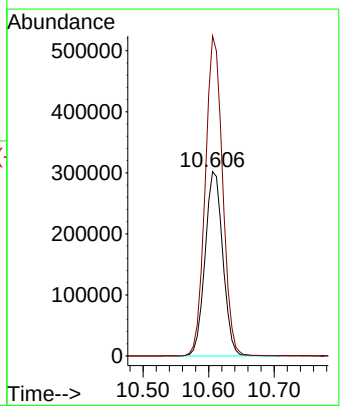
Manual Integrations APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

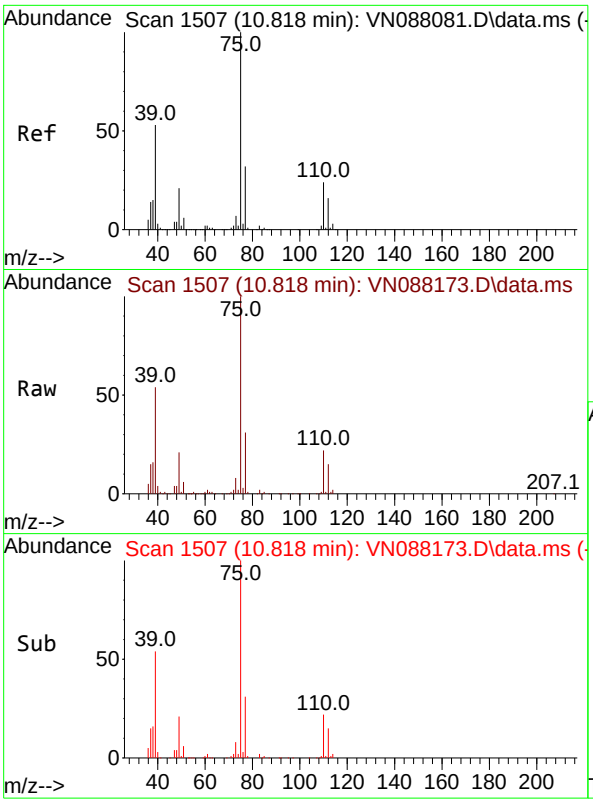


#52
Toluene
Concen: 53.325 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 92 Resp: 568245

Ion	Ratio	Lower	Upper
92	100		
91	169.8	140.4	210.6

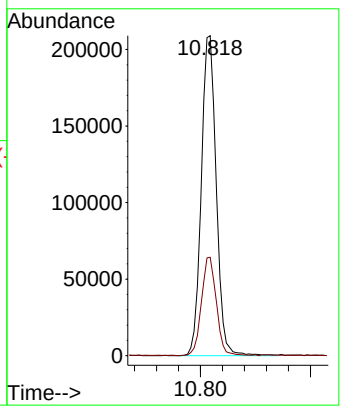




#53
t-1,3-Dichloropropene
Concen: 59.446 ug/l
RT: 10.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 75 Resp: 39421

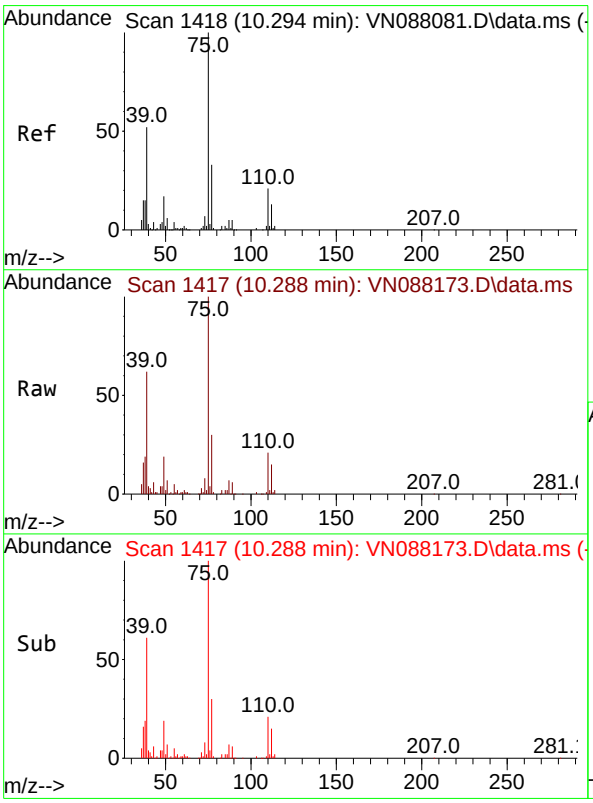
Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.2	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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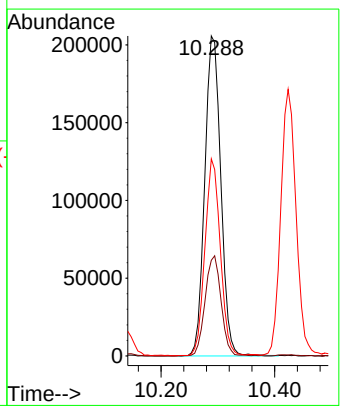
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

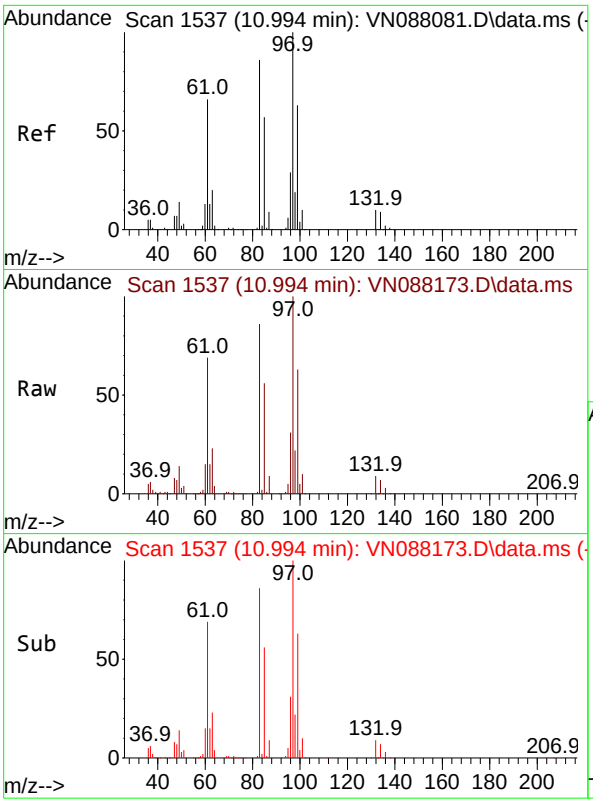


#54
cis-1,3-Dichloropropene
Concen: 57.241 ug/l
RT: 10.288 min Scan# 1417
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 75 Resp: 402794

Ion	Ratio	Lower	Upper
75	100		
77	29.8	24.6	37.0
39	61.5	45.2	67.8

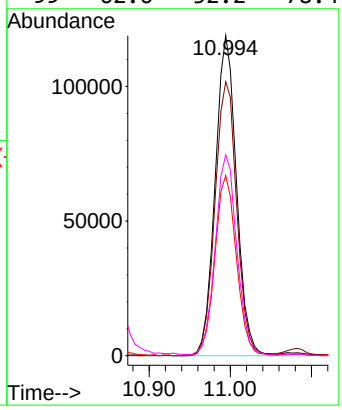




#55
1,1,2-Trichloroethane
Concen: 53.598 ug/l
RT: 10.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

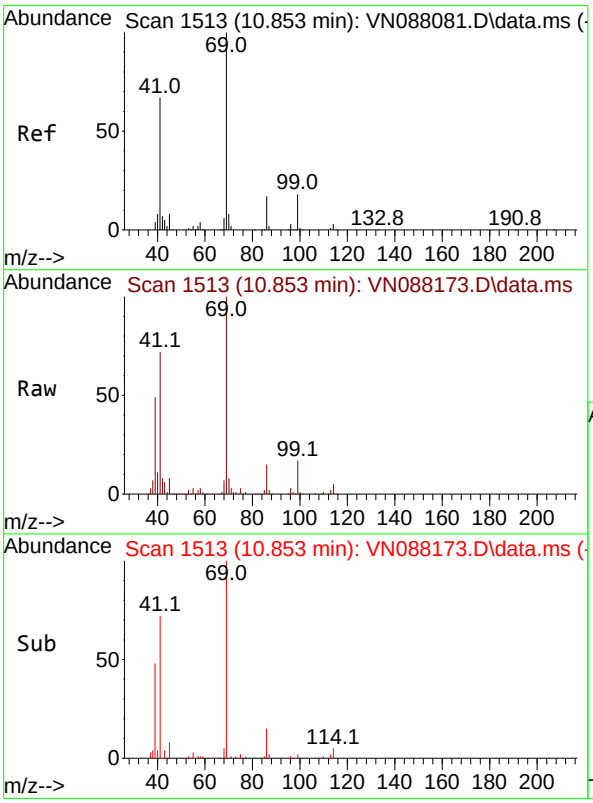
Tgt Ion: 97 Resp: 21668

Ion	Ratio	Lower	Upper
97	100		
83	85.6	68.2	102.4
85	56.1	45.5	68.3
99	62.6	52.2	78.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

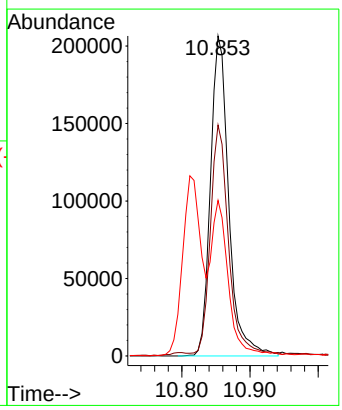
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

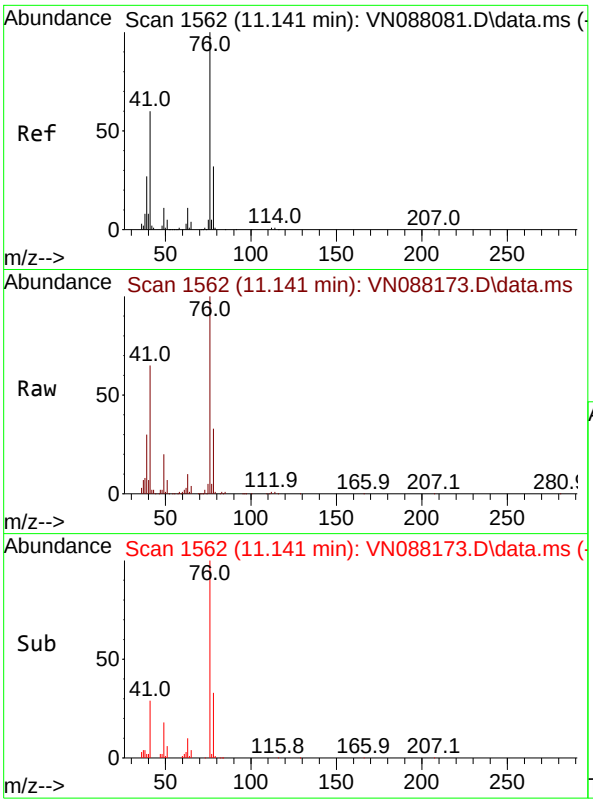


#56
Ethyl methacrylate
Concen: 60.248 ug/l
RT: 10.853 min Scan# 1513
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 69 Resp: 385456

Ion	Ratio	Lower	Upper
69	100		
41	70.0	56.5	84.7
39	45.0	34.2	51.4

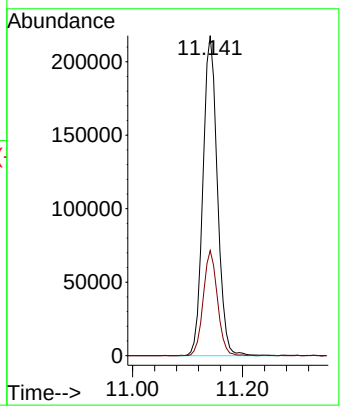




#57
1,3-Dichloropropane
Concen: 55.761 ug/l
RT: 11.141 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 76 Resp: 39624

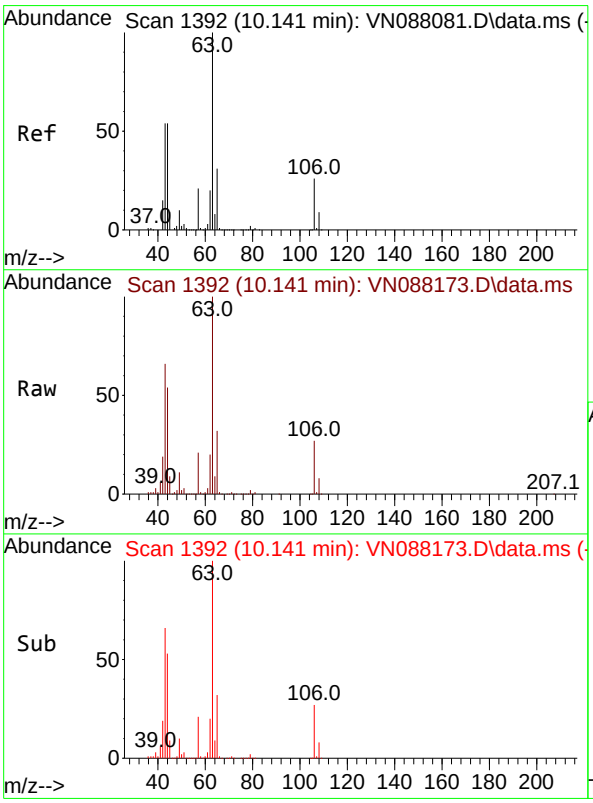
Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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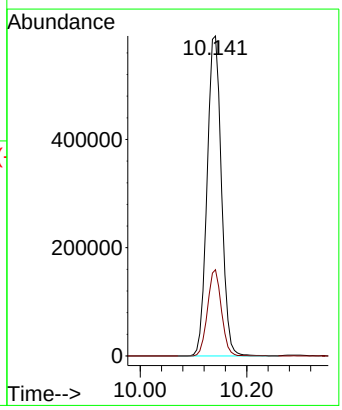
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

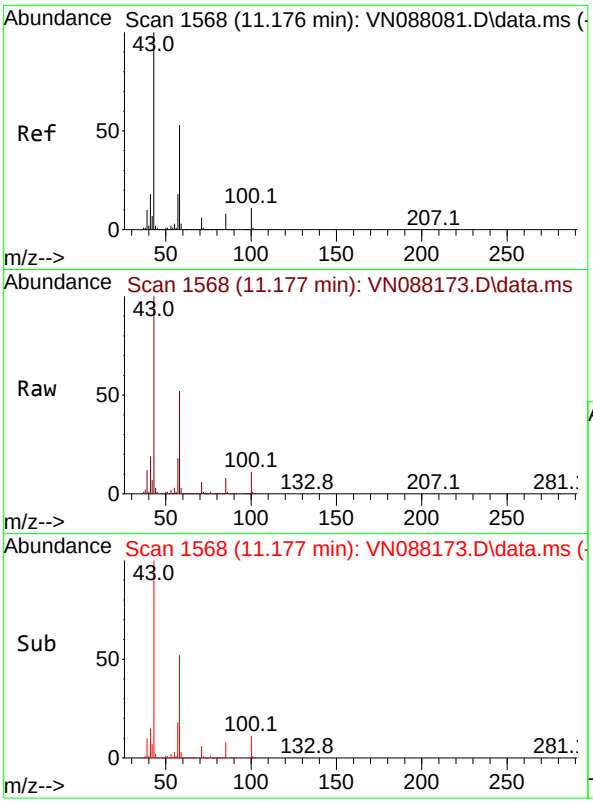


#58
2-Chloroethyl Vinyl ether
Concen: 331.478 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 63 Resp: 1103120

Ion	Ratio	Lower	Upper
63	100		
106	26.1	21.1	31.7





#59
2-Hexanone
Concen: 311.587 ug/l
RT: 11.177 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

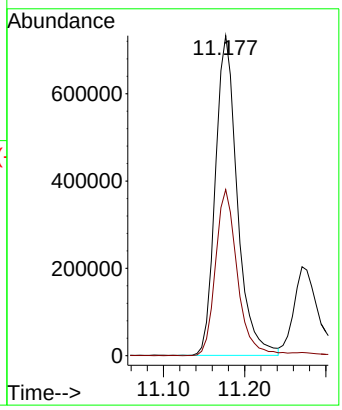
Tgt Ion: 43 Resp: 137614

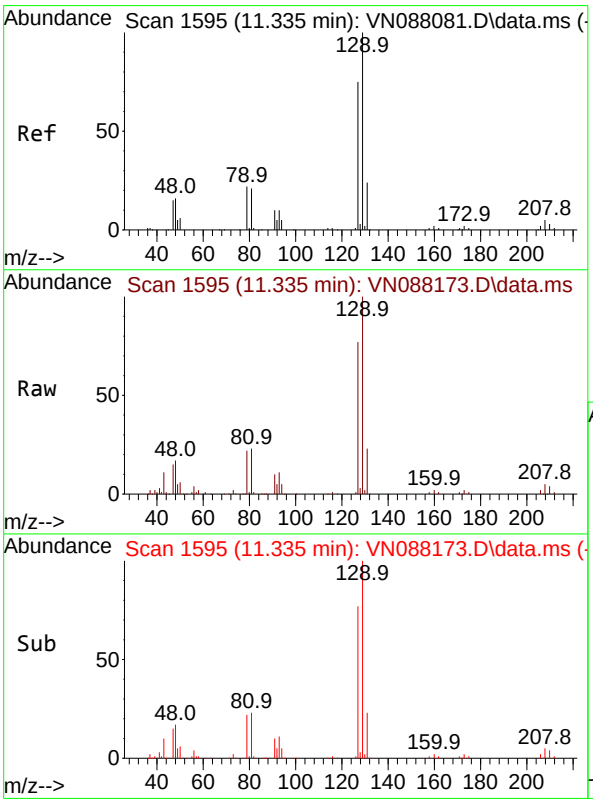
Ion	Ratio	Lower	Upper
43	100		
58	51.9	25.9	77.8

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

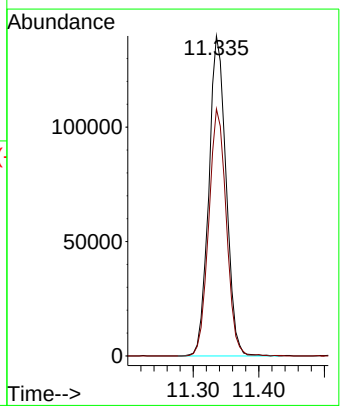


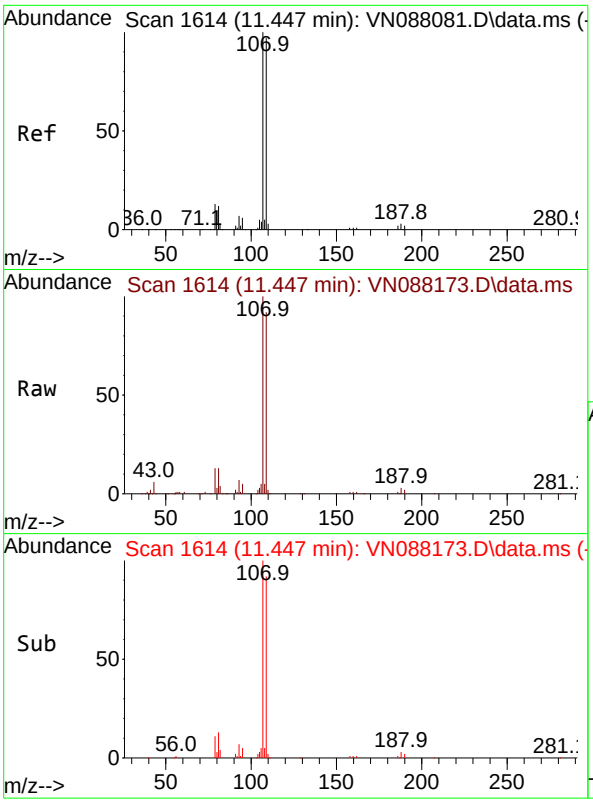


#60
Dibromochloromethane
Concen: 55.728 ug/l
RT: 11.335 min Scan# 1595
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:129 Resp: 256080

Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.3

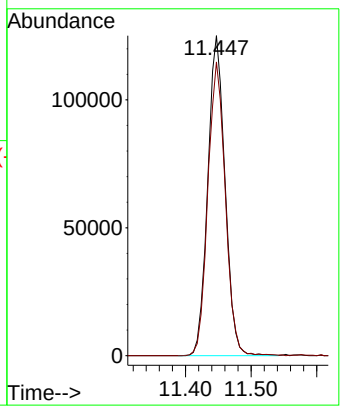




#61
1,2-Dibromoethane
Concen: 54.956 ug/l
RT: 11.447 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

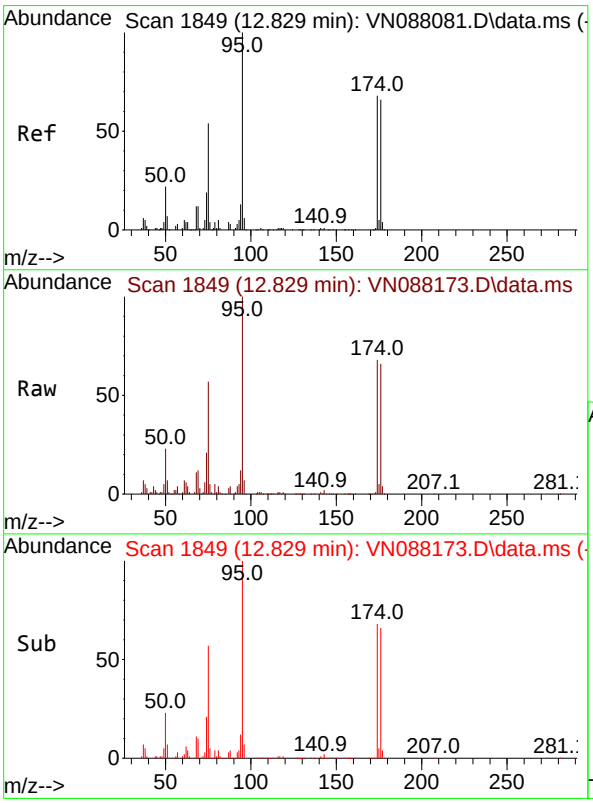
Tgt Ion:107 Resp: 22866

Ion	Ratio	Lower	Upper
107	100		
109	93.1	74.7	112.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

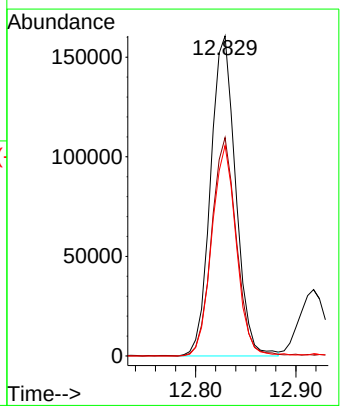
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

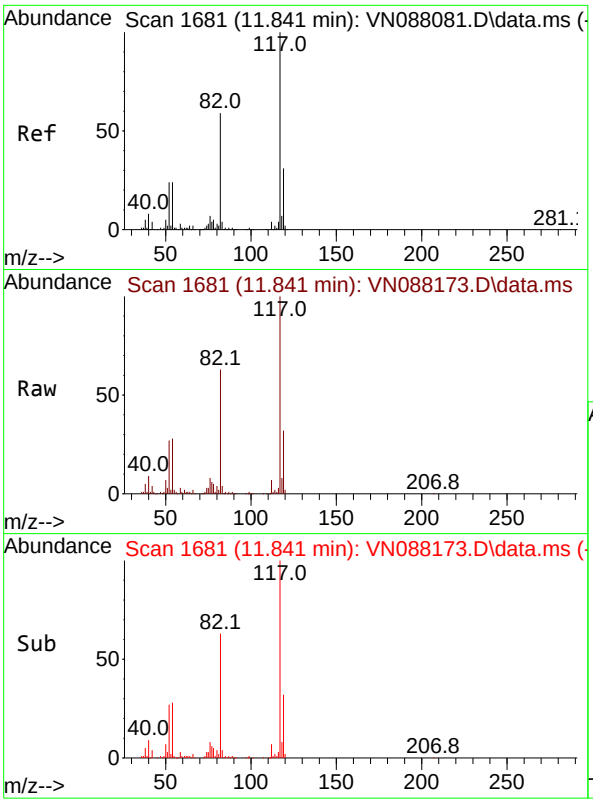


#62
4-Bromofluorobenzene
Concen: 52.690 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 95 Resp: 278690

Ion	Ratio	Lower	Upper
95	100		
174	67.6	0.0	138.4
176	64.6	0.0	132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

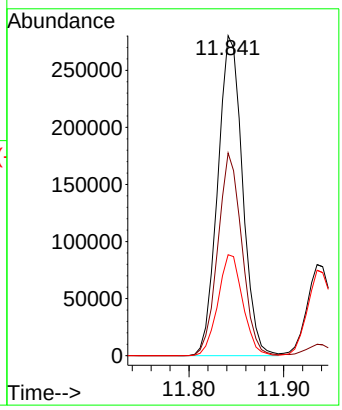
Tgt Ion:117 Resp: 50973

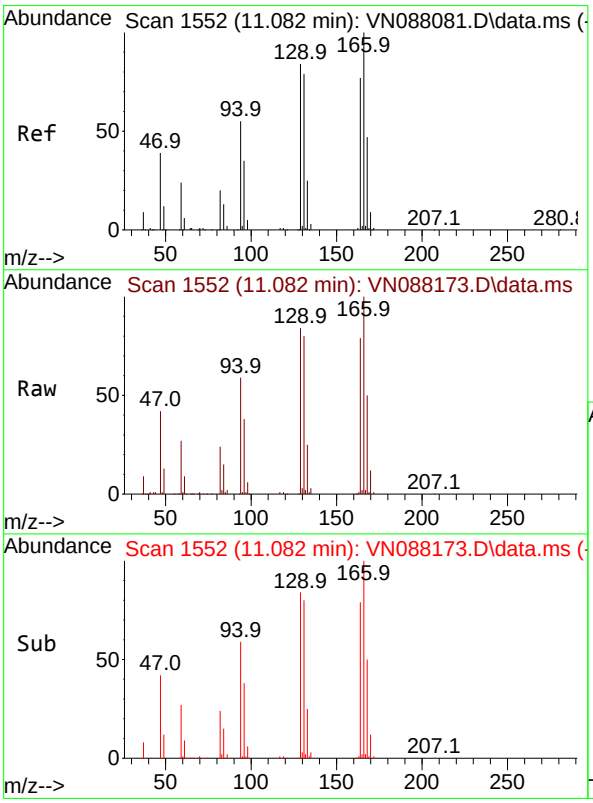
Ion	Ratio	Lower	Upper
117	100		
82	63.4	47.4	71.2
119	31.5	24.3	36.5

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

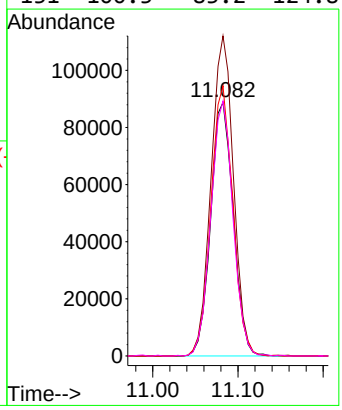


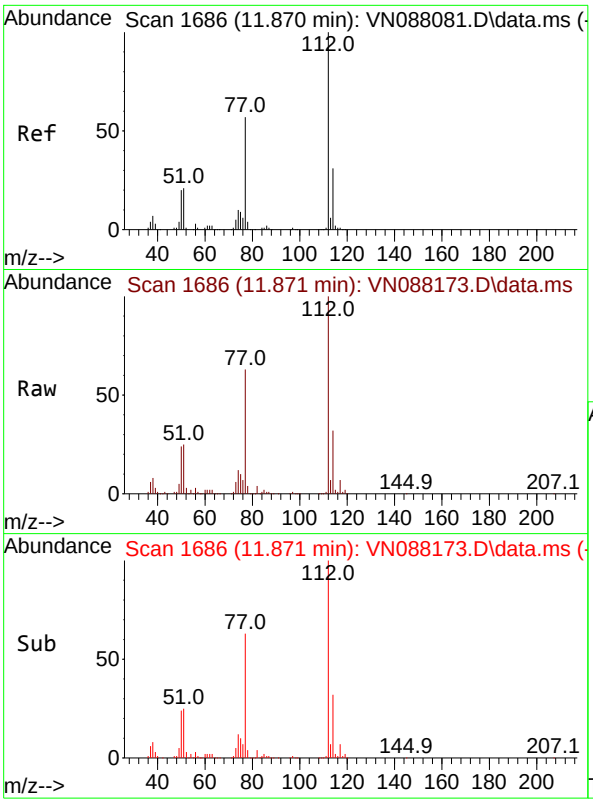


#64
Tetrachloroethene
Concen: 48.549 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:164 Resp: 163233

Ion	Ratio	Lower	Upper
164	100		
166	126.2	97.7	146.5
129	106.3	85.9	128.9
131	100.3	83.2	124.8

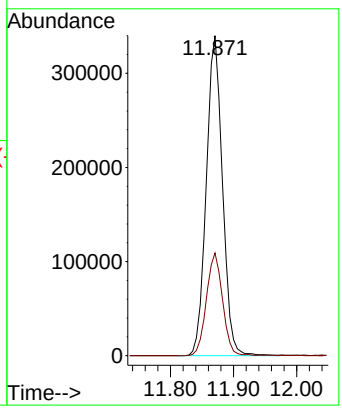




#65
Chlorobenzene
Concen: 52.271 ug/l
RT: 11.871 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:112 Resp: 60500

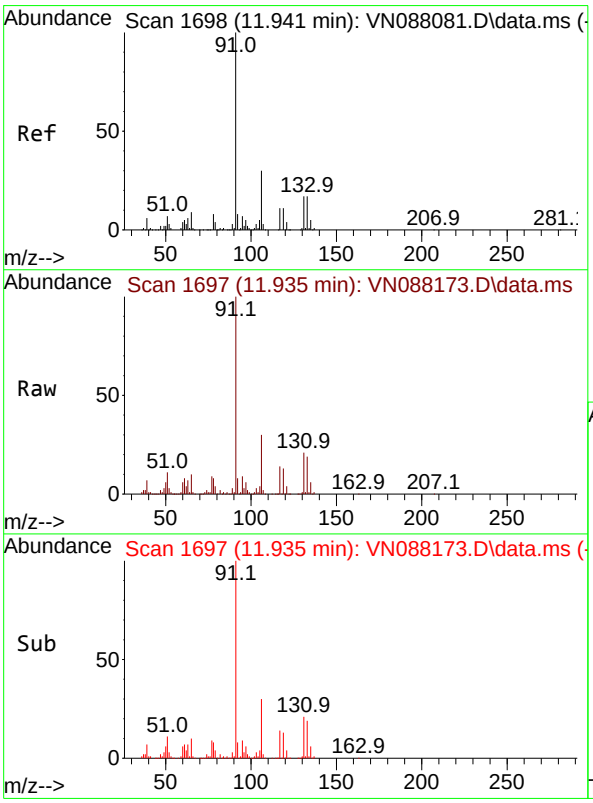
Ion	Ratio	Lower	Upper
112	100		
114	32.1	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

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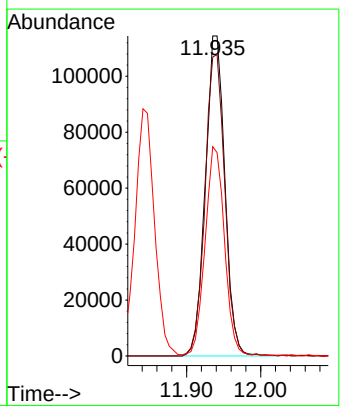
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

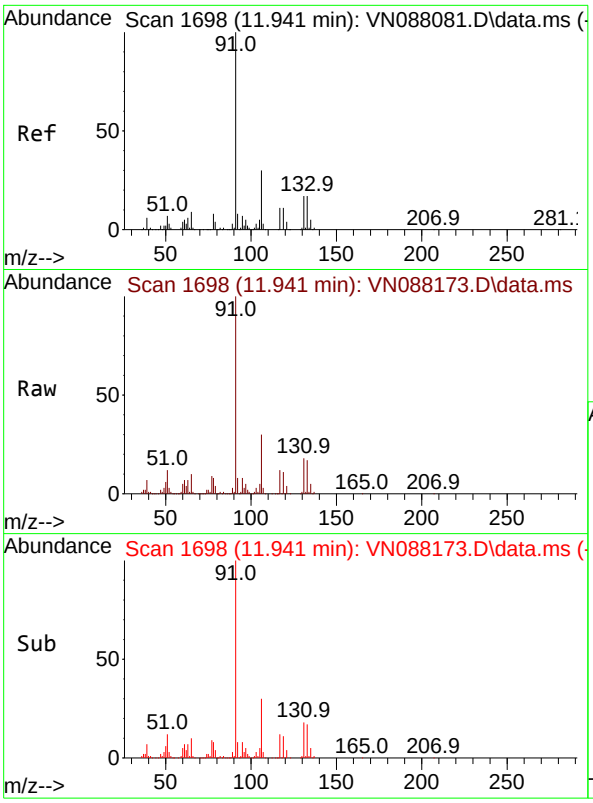


#66
1,1,1,2-Tetrachloroethane
Concen: 55.331 ug/l
RT: 11.935 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:131 Resp: 209817

Ion	Ratio	Lower	Upper
131	100		
133	95.3	48.0	144.0
119	64.8	32.6	97.7





#67
Ethyl Benzene
Concen: 53.305 ug/l
RT: 11.941 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

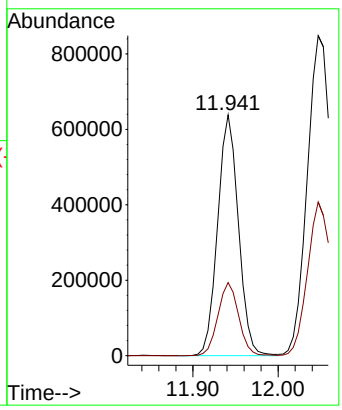
Tgt Ion: 91 Resp: 108297

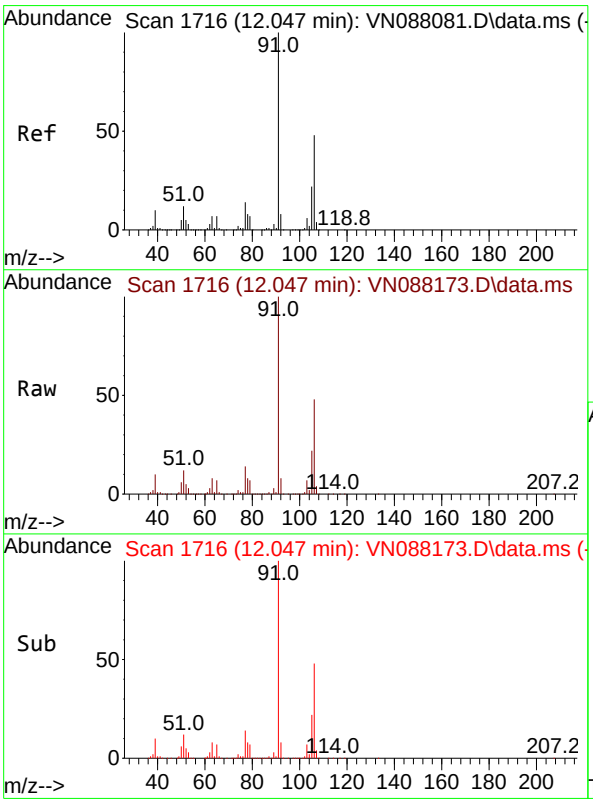
Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.1	36.1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

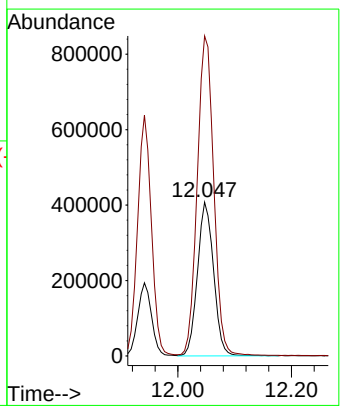


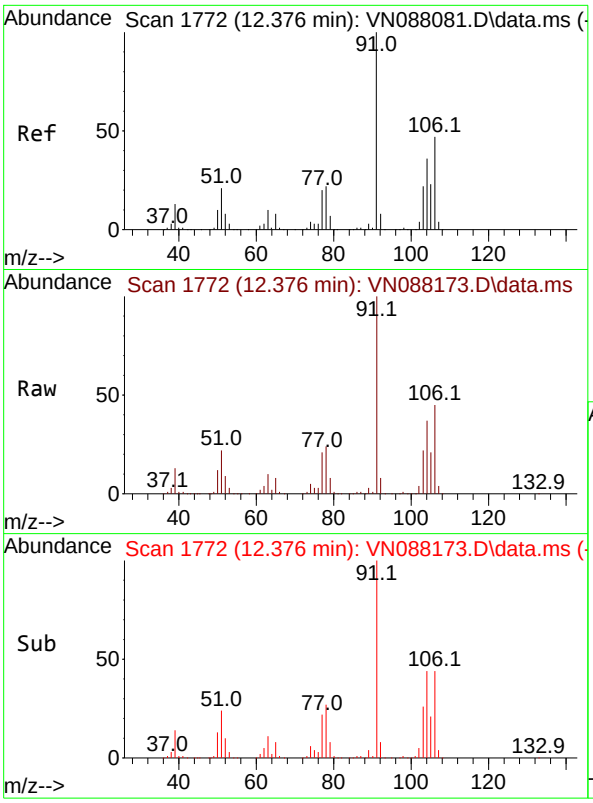


#68
m/p-Xylenes
Concen: 105.437 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:106 Resp: 802615

Ion	Ratio	Lower	Upper
106	100		
91	214.0	169.3	253.9

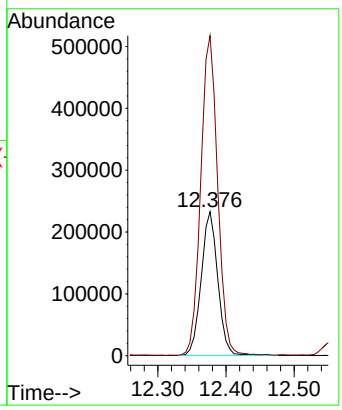




#69
o-Xylene
Concen: 54.394 ug/l
RT: 12.376 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:106 Resp: 39252

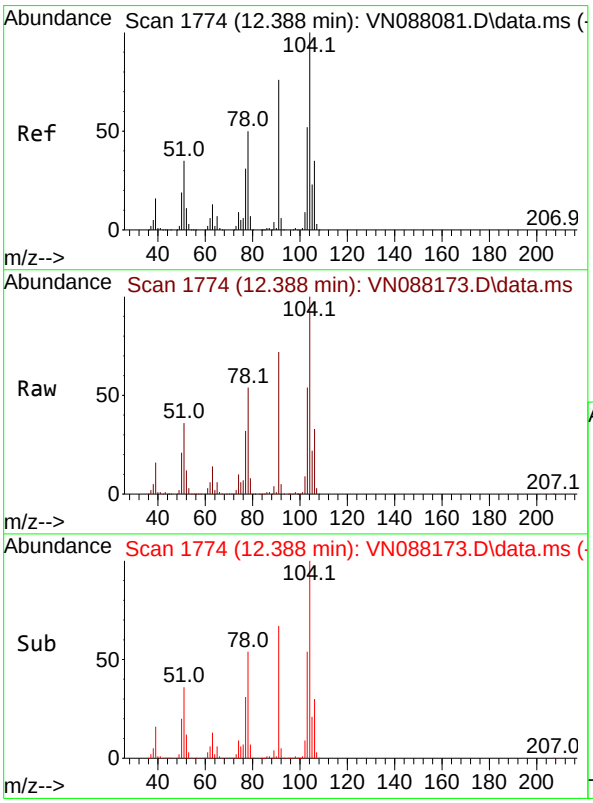
Ion	Ratio	Lower	Upper
106	100		
91	226.6	111.4	334.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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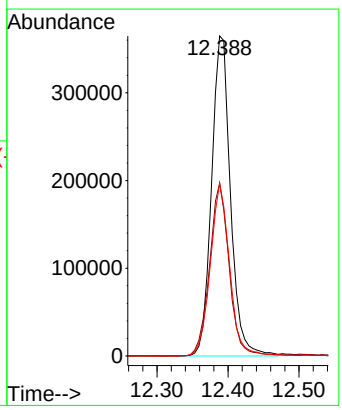
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

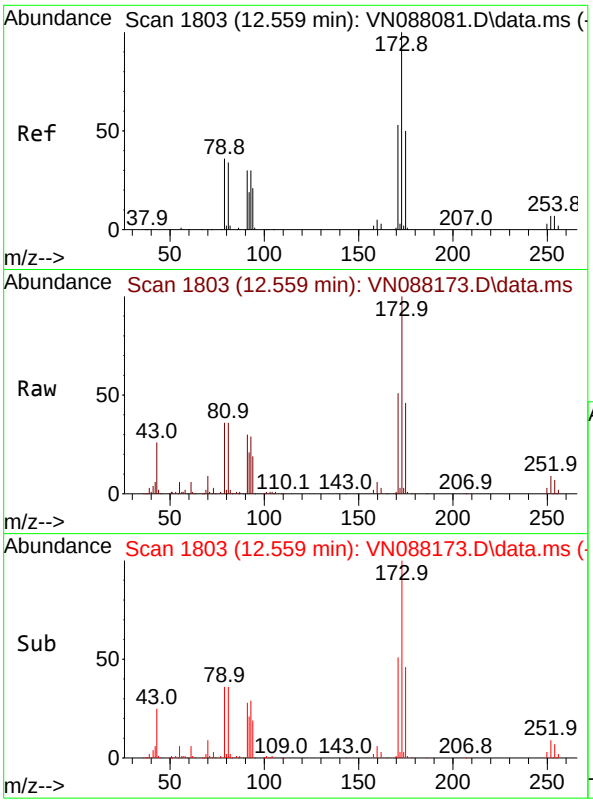


#70
Styrene
Concen: 57.279 ug/l
RT: 12.388 min Scan# 1774
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:104 Resp: 674014

Ion	Ratio	Lower	Upper
104	100		
78	56.1	42.2	63.2
103	55.1	43.4	65.2

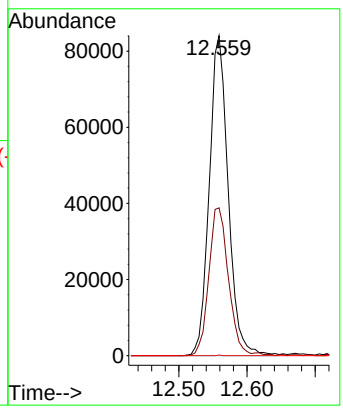




#71
Bromoform
Concen: 57.455 ug/l
RT: 12.559 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

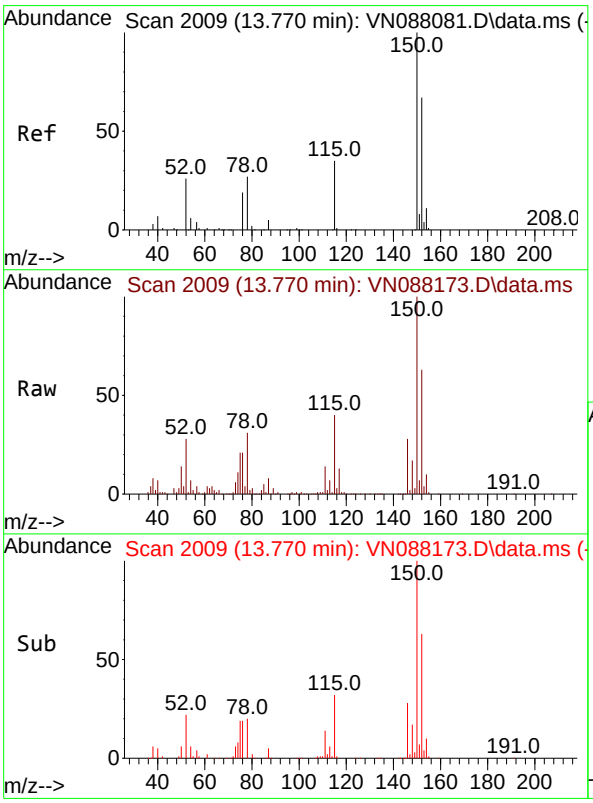
Tgt Ion:173 Resp: 16259

Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

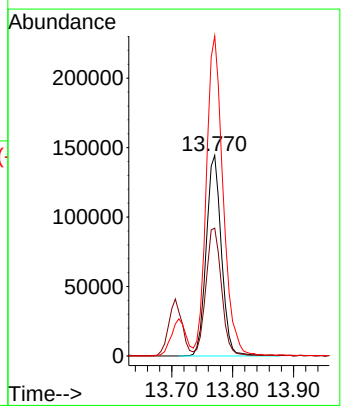
Manual Integrations APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

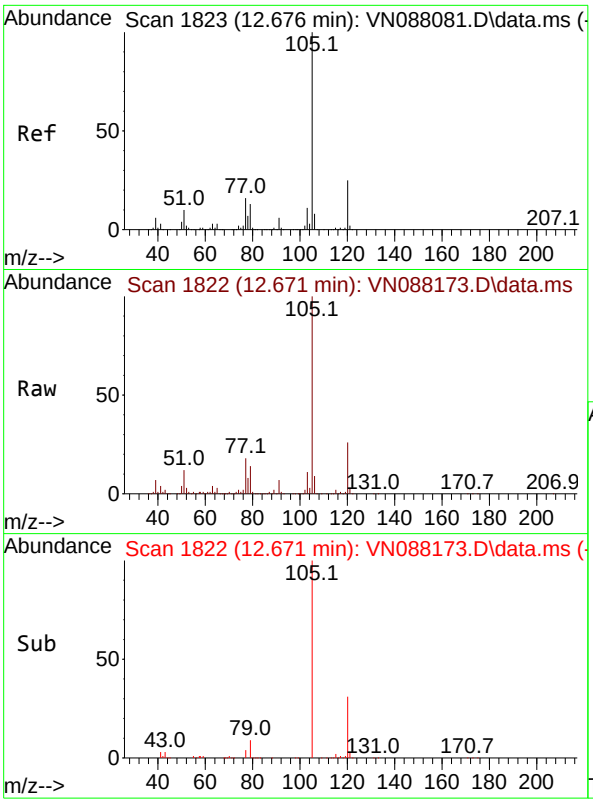


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:152 Resp: 249740

Ion	Ratio	Lower	Upper
152	100		
115	64.8	32.3	96.8
150	174.8	0.0	351.0

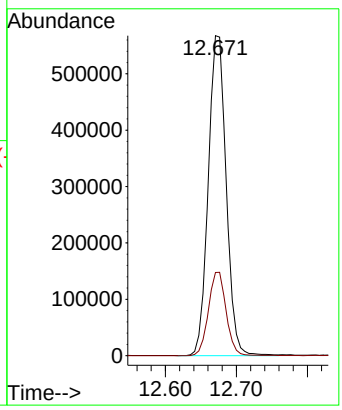




#73
Isopropylbenzene
Concen: 51.666 ug/l
RT: 12.671 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:105 Resp: 99518

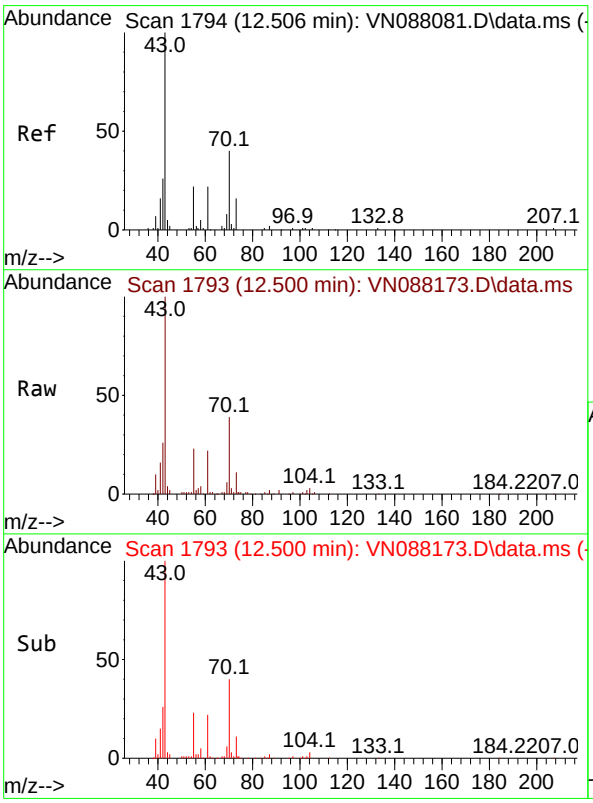
Ion	Ratio	Lower	Upper
105	100		
120	25.7	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

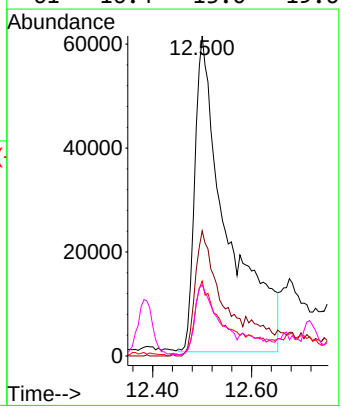
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

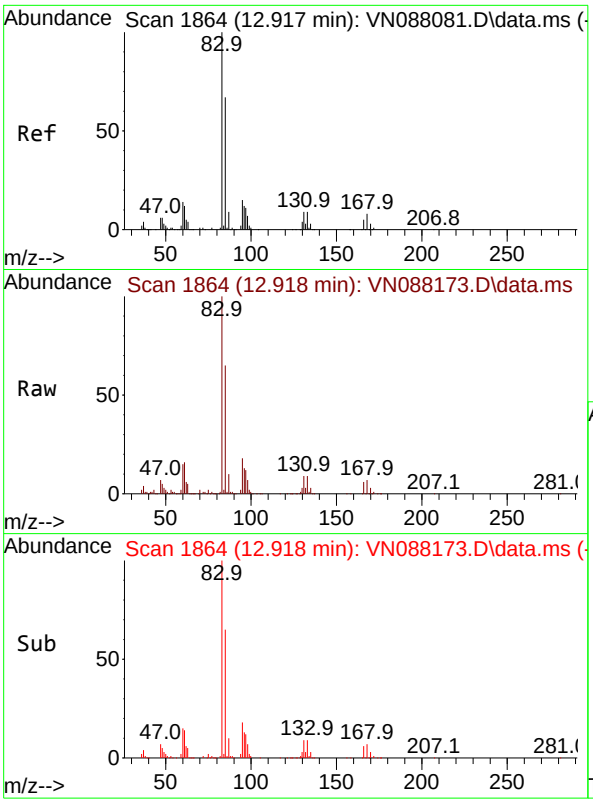


#74
N-amyl acetate
Concen: 50.122 ug/l m
RT: 12.500 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 43 Resp: 274064

Ion	Ratio	Lower	Upper
43	100		
70	31.1	27.6	41.4
55	21.2	13.0	19.6#
61	16.4	13.0	19.6

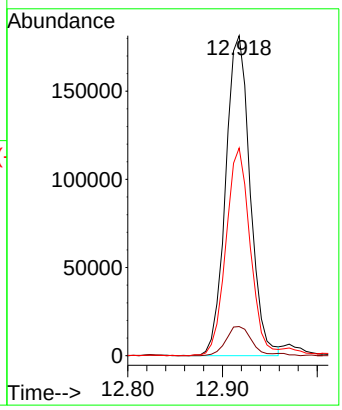




#75
1,1,2,2-Tetrachloroethane
Concen: 54.244 ug/l
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 83 Resp: 32528

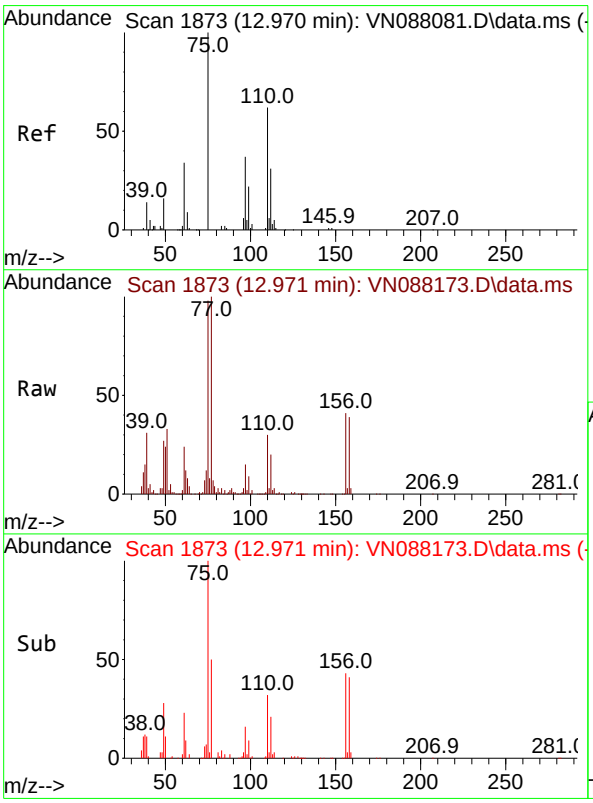
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.4
85	64.3	32.1	96.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
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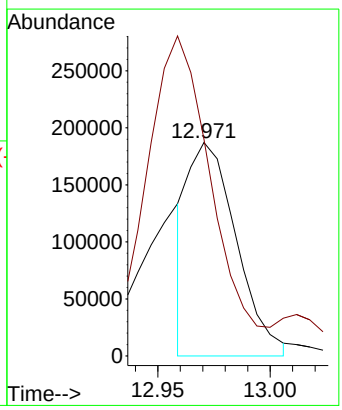
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

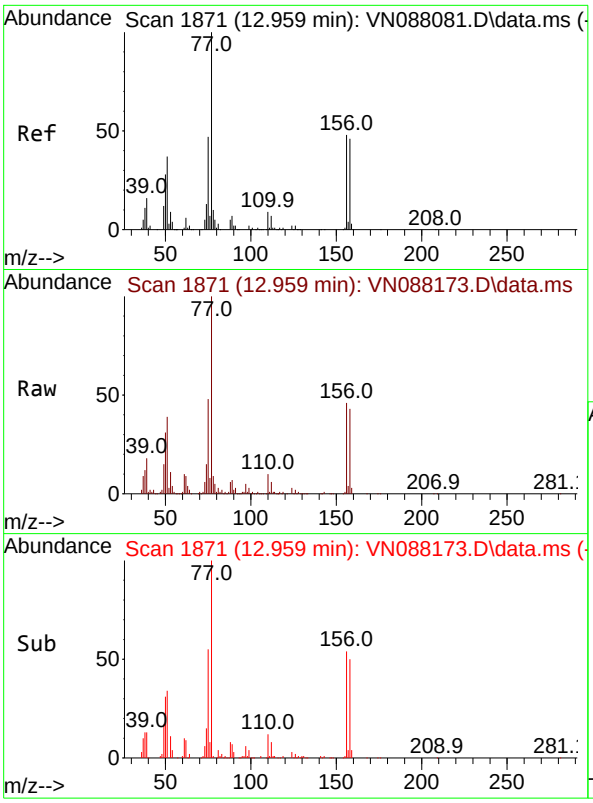


#76
1,2,3-Trichloropropane
Concen: 49.011 ug/l m
RT: 12.971 min Scan# 1873
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 75 Resp: 279846

Ion	Ratio	Lower	Upper
75	100		
77	205.5	89.1	267.4

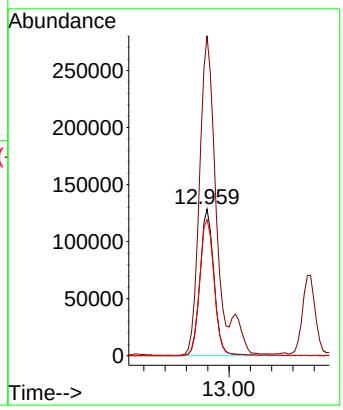




#77
Bromobenzene
Concen: 56.234 ug/l
RT: 12.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:156 Resp: 23357

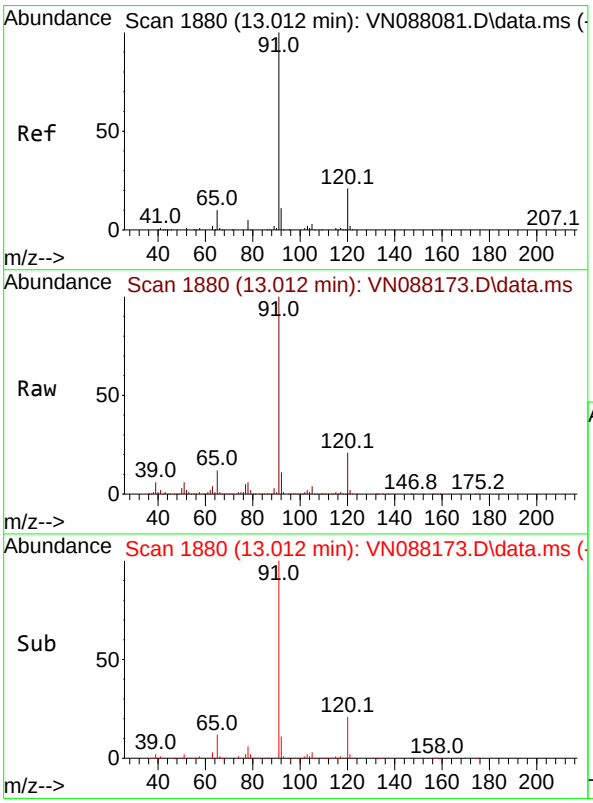
Ion	Ratio	Lower	Upper
156	100		
77	246.2	119.3	358.0
158	96.5	48.2	144.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

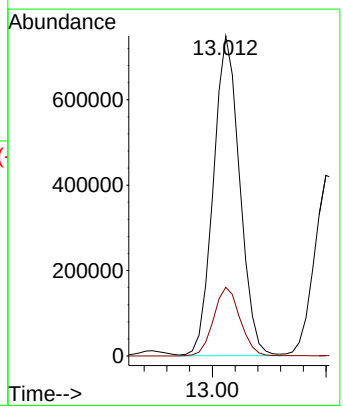
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

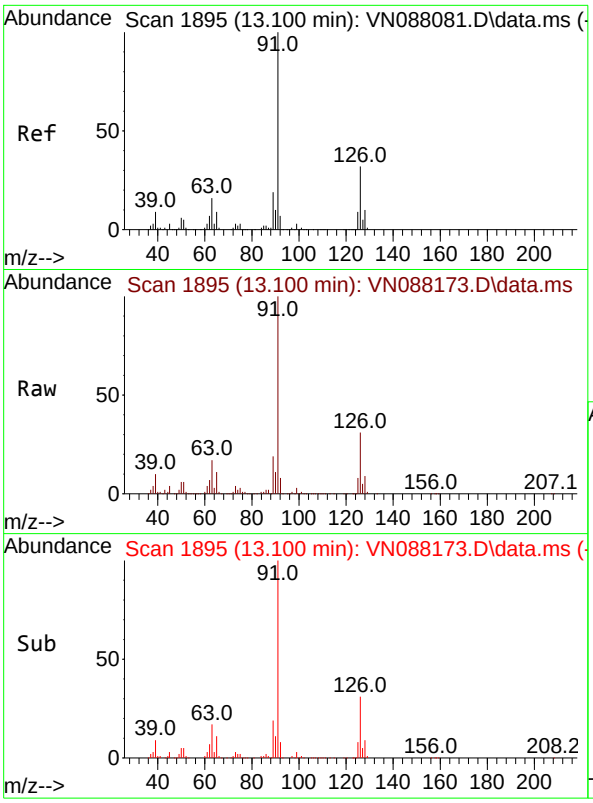


#78
n-propylbenzene
Concen: 51.277 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 91 Resp: 1205322

Ion	Ratio	Lower	Upper
91	100		
120	21.7	10.7	32.1

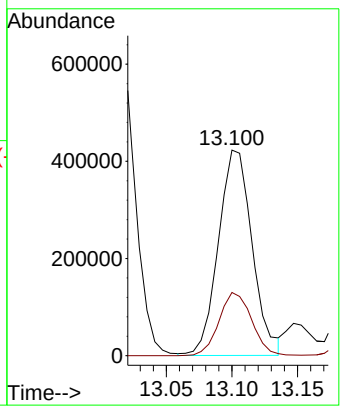




#79
2-Chlorotoluene
Concen: 56.614 ug/l
RT: 13.100 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 91 Resp: 75891

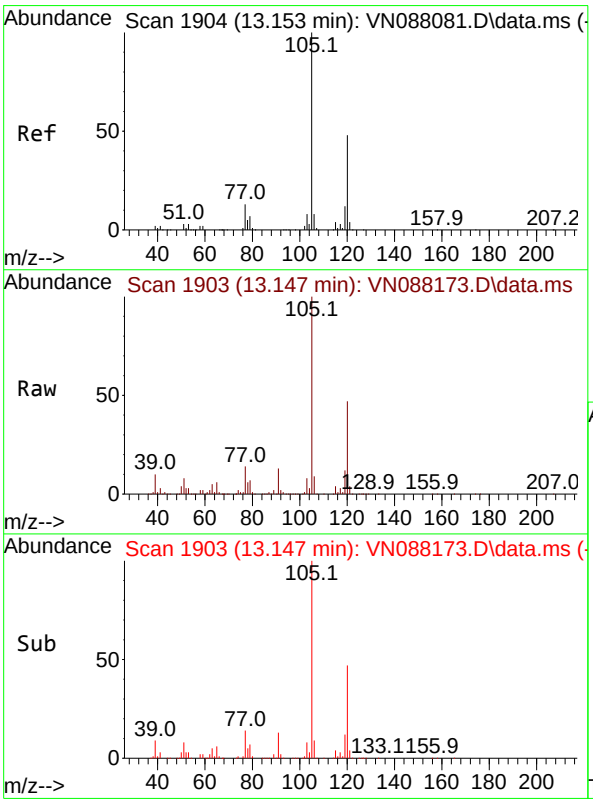
Ion	Ratio	Lower	Upper
91	100		
126	29.9	16.1	48.3



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

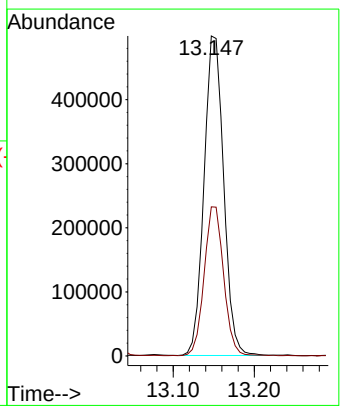
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

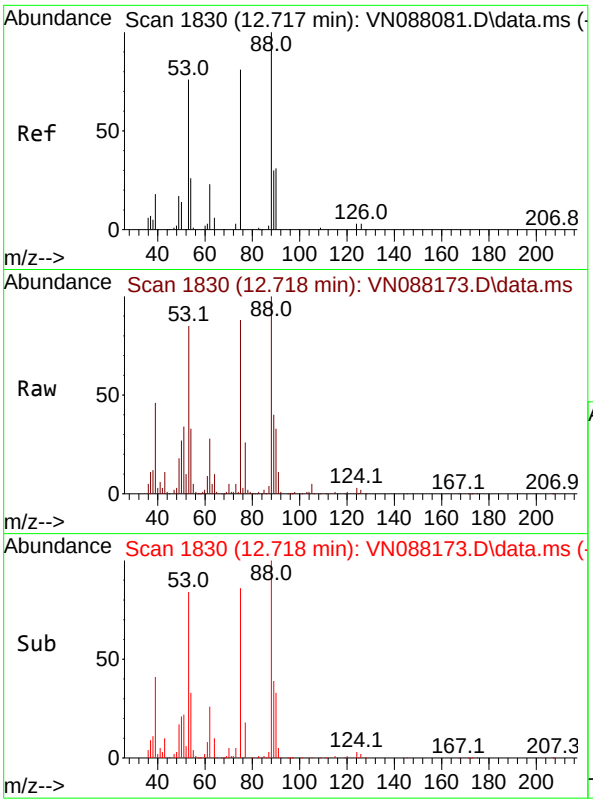


#80
1,3,5-Trimethylbenzene
Concen: 52.310 ug/l
RT: 13.147 min Scan# 1903
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:105 Resp: 836803

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.2	69.6





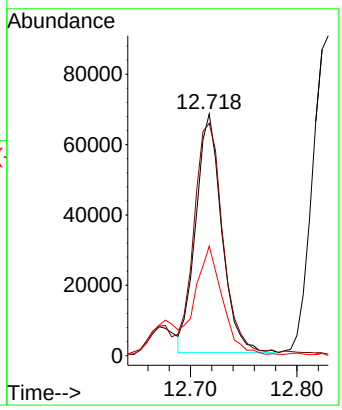
#81
trans-1,4-Dichloro-2-butene
Concen: 56.448 ug/l
RT: 12.718 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

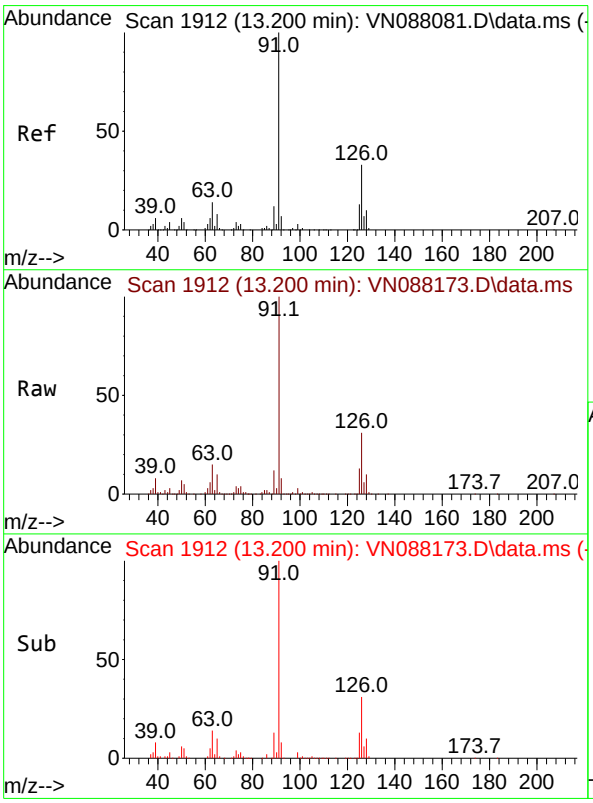
Tgt Ion: 75 Resp: 11554

Ion	Ratio	Lower	Upper
75	100		
53	110.8	101.8	152.6
89	48.1	35.6	53.4

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

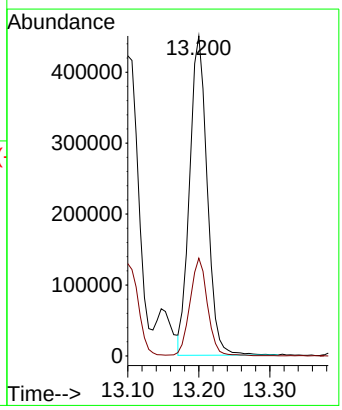


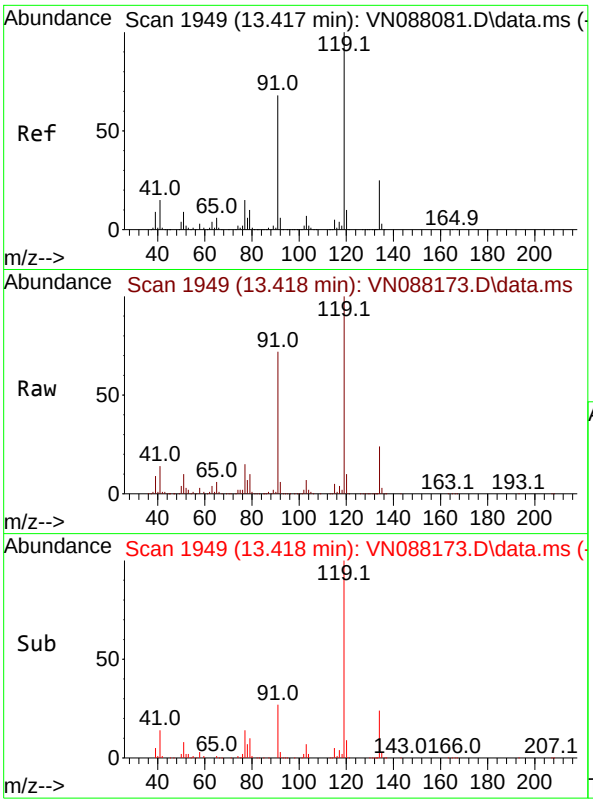


#82
4-Chlorotoluene
Concen: 53.449 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 91 Resp: 775166

Ion	Ratio	Lower	Upper
91	100		
126	30.6	15.6	46.8

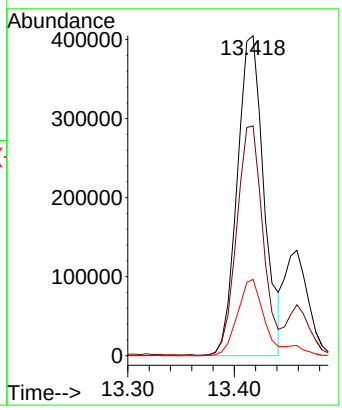




#83
tert-Butylbenzene
Concen: 49.424 ug/l
RT: 13.418 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

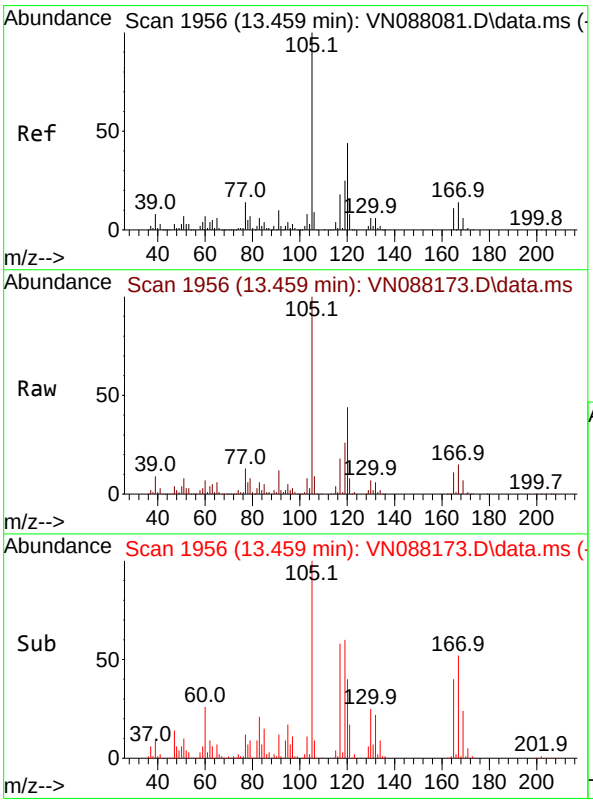
Tgt Ion:119 Resp: 70627

Ion	Ratio	Lower	Upper
119	100		
91	70.4	35.0	105.0
134	25.6	12.6	37.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

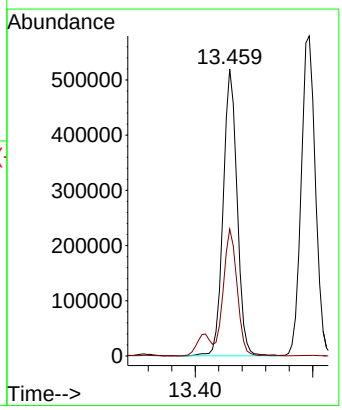
Manual Integrations
APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

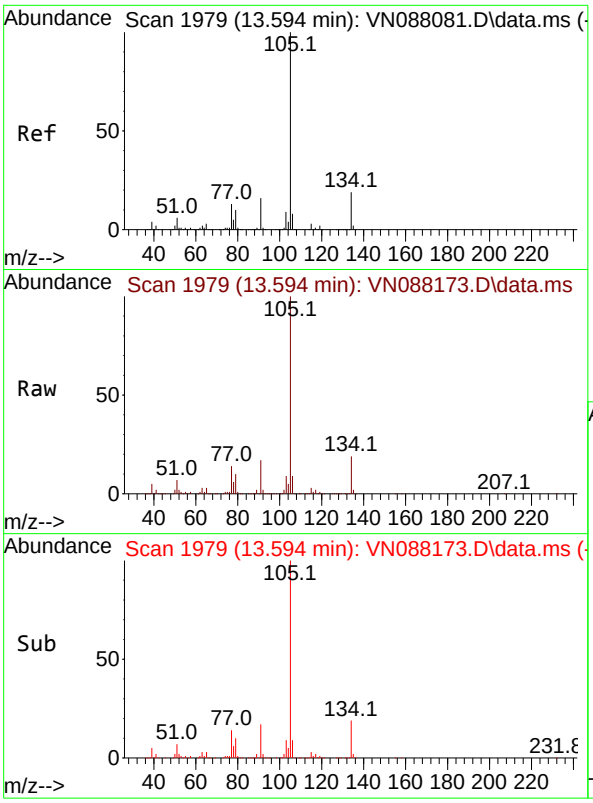


#84
1,2,4-Trimethylbenzene
Concen: 53.443 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:105 Resp: 855374

Ion	Ratio	Lower	Upper
105	100		
120	43.7	22.0	66.0

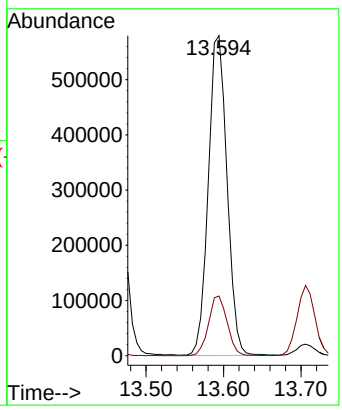




#85
sec-Butylbenzene
Concen: 46.347 ug/l
RT: 13.594 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:105 Resp: 97306

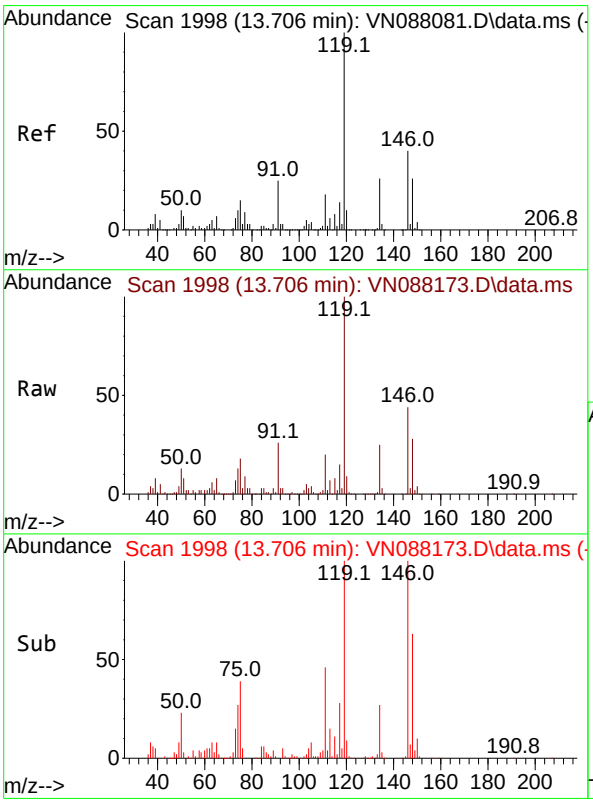
Ion	Ratio	Lower	Upper
105	100		
134	18.6	9.6	28.6



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

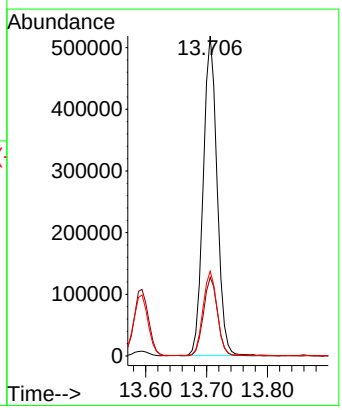
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

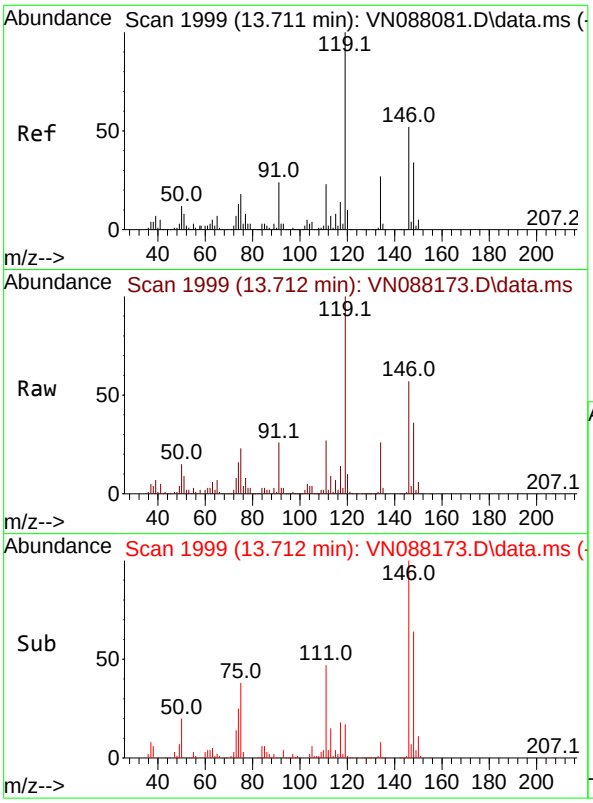


#86
p-Isopropyltoluene
Concen: 48.545 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:119 Resp: 817622

Ion	Ratio	Lower	Upper
119	100		
134	24.9	12.7	38.0
91	26.9	12.5	37.5

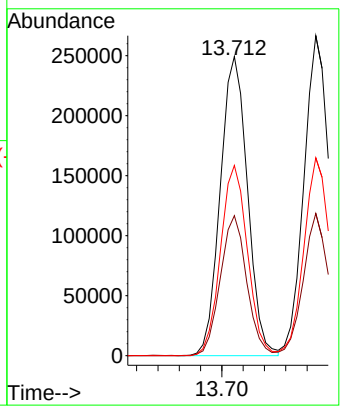




#87
1,3-Dichlorobenzene
Concen: 53.437 ug/l
RT: 13.712 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:146 Resp: 44309

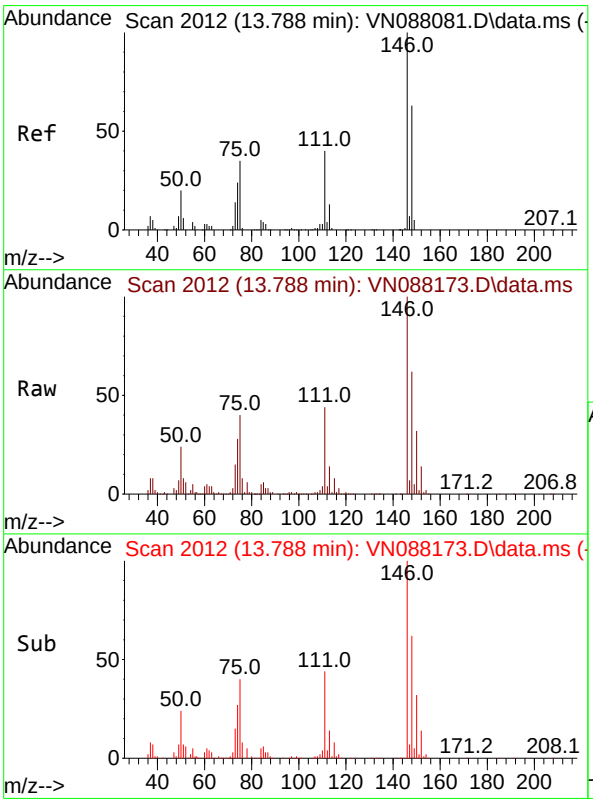
Ion	Ratio	Lower	Upper
146	100		
111	45.4	22.1	66.5
148	63.0	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

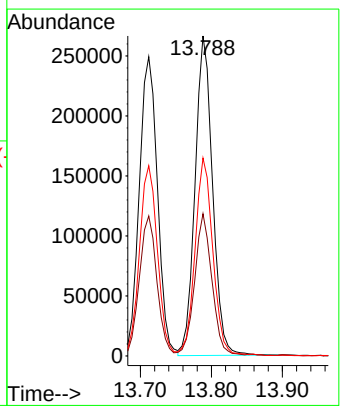
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

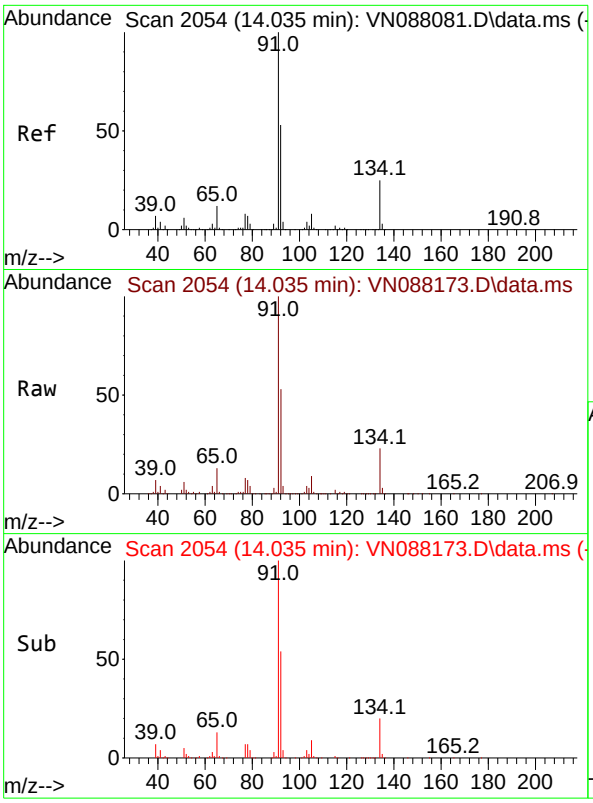


#88
1,4-Dichlorobenzene
Concen: 51.315 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:146 Resp: 456997

Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.0	63.0
148	63.0	32.0	96.0

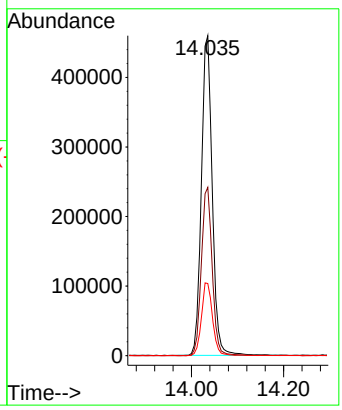




#89
n-Butylbenzene
Concen: 45.407 ug/l
RT: 14.035 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 91 Resp: 75752

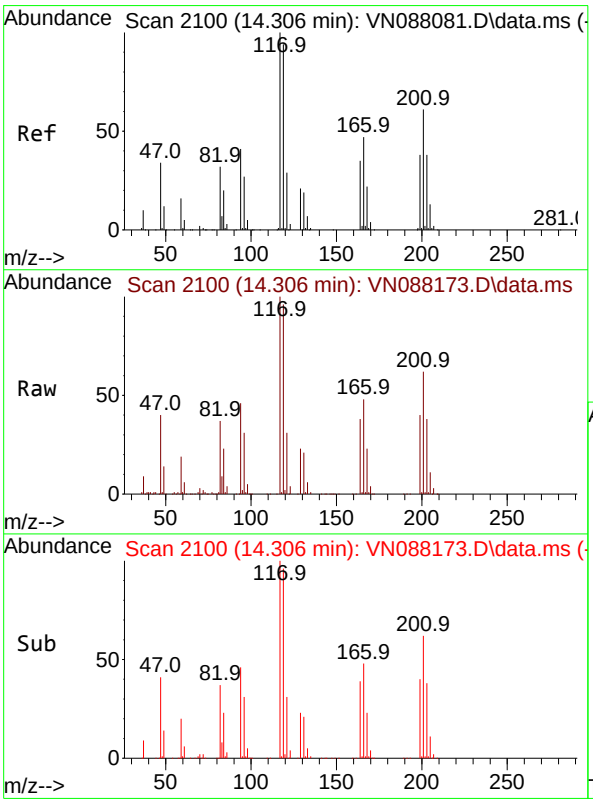
Ion	Ratio	Lower	Upper
91	100		
92	52.6	25.9	77.8
134	23.1	11.7	35.0



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

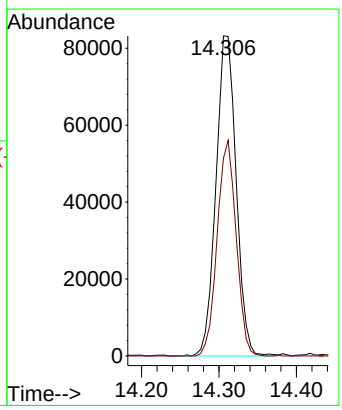
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

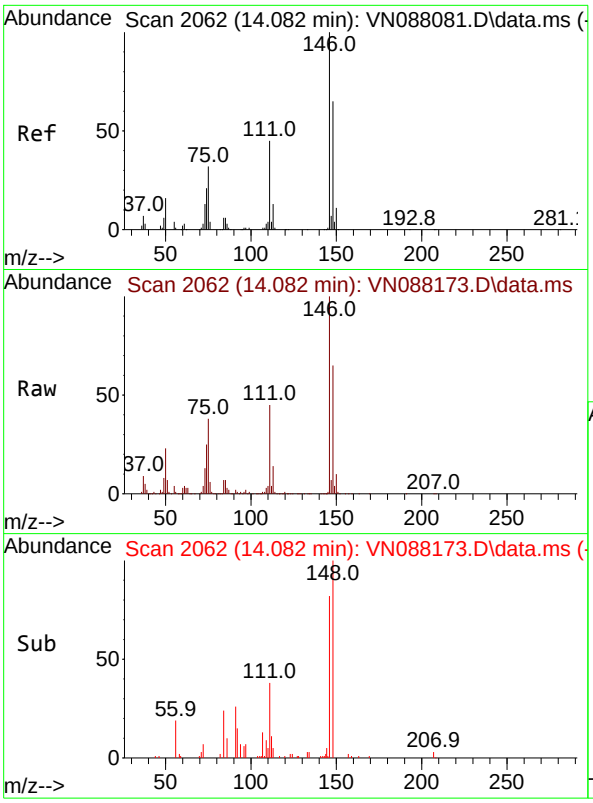


#90
Hexachloroethane
Concen: 46.408 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:117 Resp: 151364

Ion	Ratio	Lower	Upper
117	100		
201	63.1	29.1	87.4

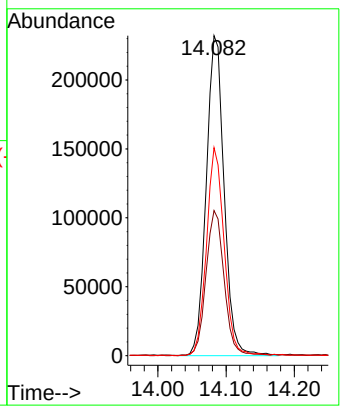




#91
1,2-Dichlorobenzene
Concen: 52.921 ug/l
RT: 14.082 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

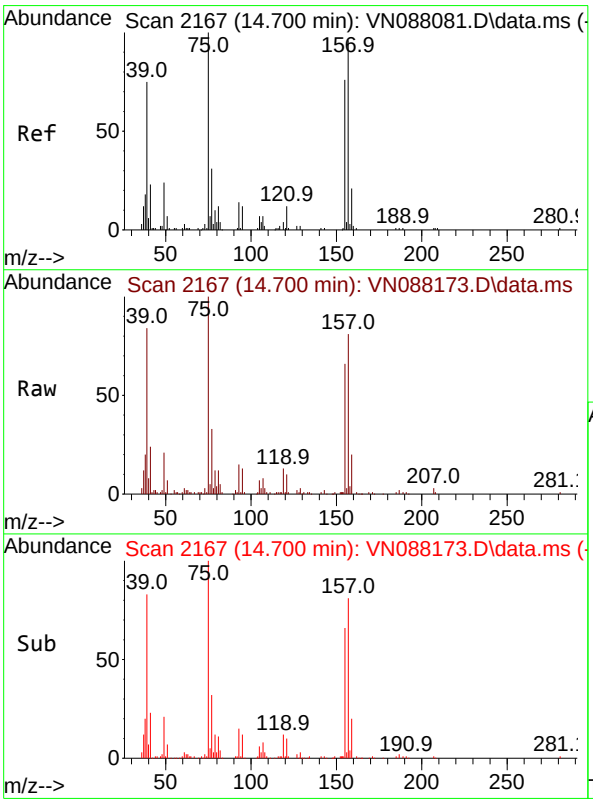
Tgt Ion:146 Resp: 42298

Ion	Ratio	Lower	Upper
146	100		
111	46.5	22.6	67.8
148	64.2	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

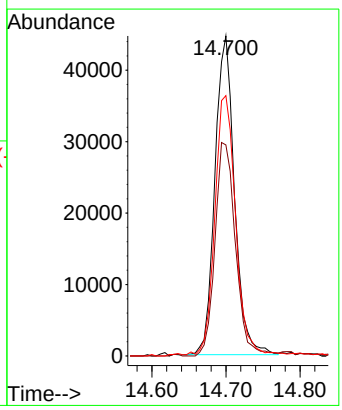
Manual Integrations APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

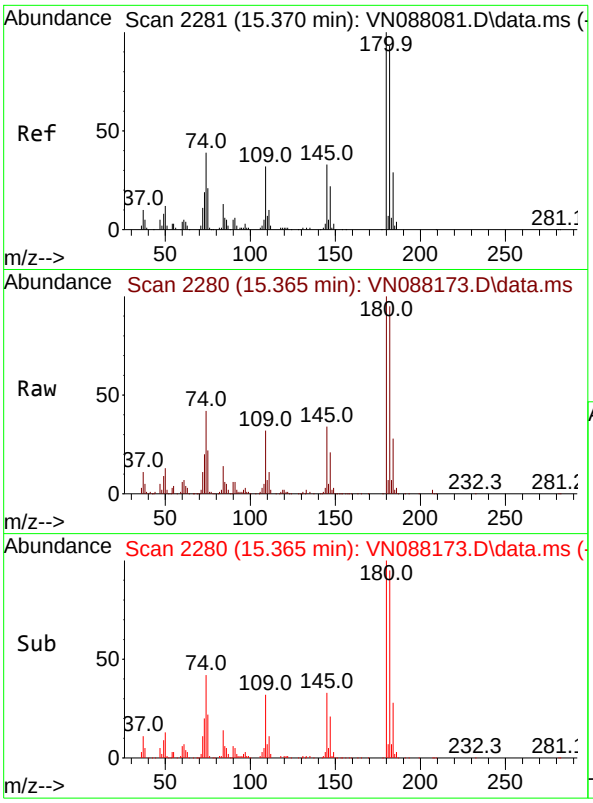


#92
1,2-Dibromo-3-Chloropropane
Concen: 58.659 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion: 75 Resp: 81875

Ion	Ratio	Lower	Upper
75	100		
155	70.2	36.6	109.9
157	85.5	45.6	136.9

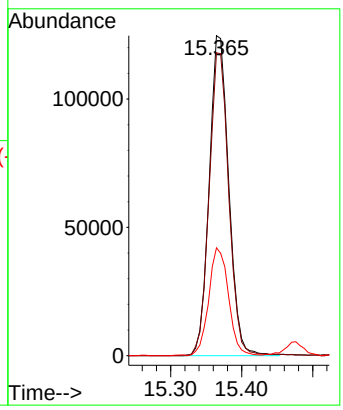




#93
1,2,4-Trichlorobenzene
Concen: 49.180 ug/l
RT: 15.365 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

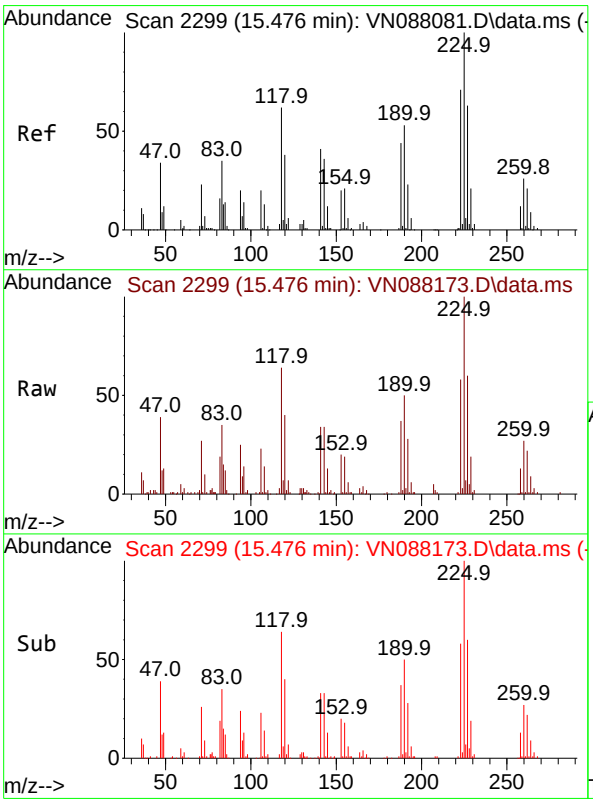
Tgt Ion:180 Resp: 23806

Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.6	142.9
145	34.3	16.5	49.5



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

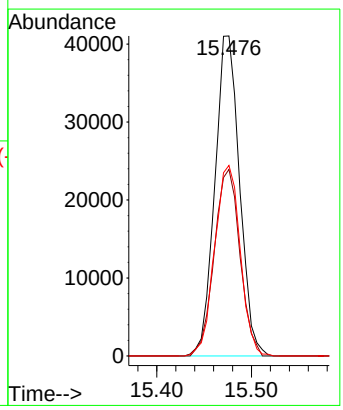
Manual Integrations
APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

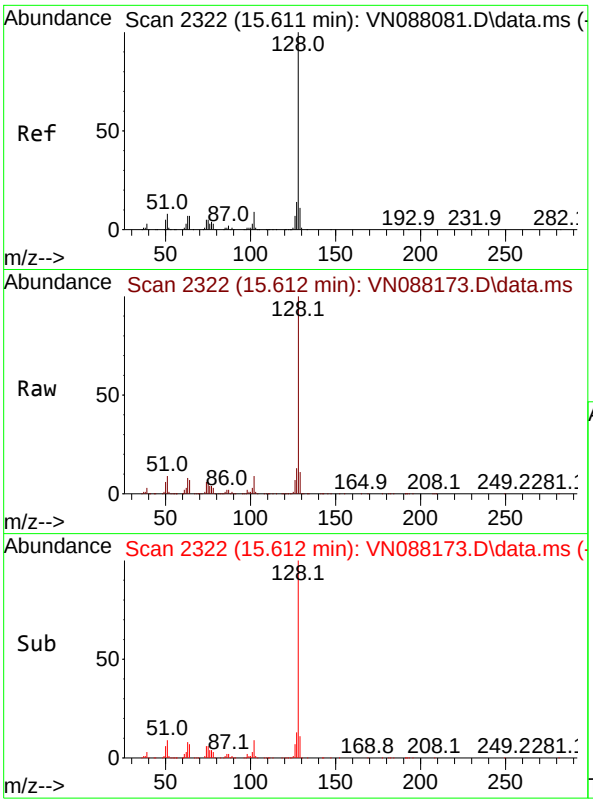


#94
Hexachlorobutadiene
Concen: 41.349 ug/l
RT: 15.476 min Scan# 2299
Delta R.T. -0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:225 Resp: 74537

Ion	Ratio	Lower	Upper
225	100		
223	60.5	32.0	96.2
227	61.6	32.1	96.5

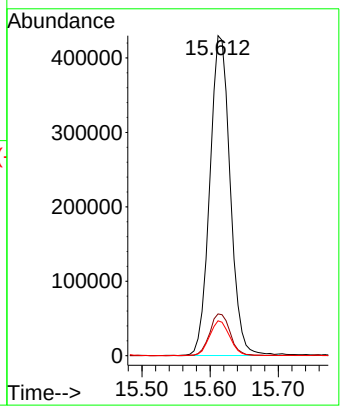




#95
Naphthalene
Concen: 53.823 ug/l
RT: 15.612 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

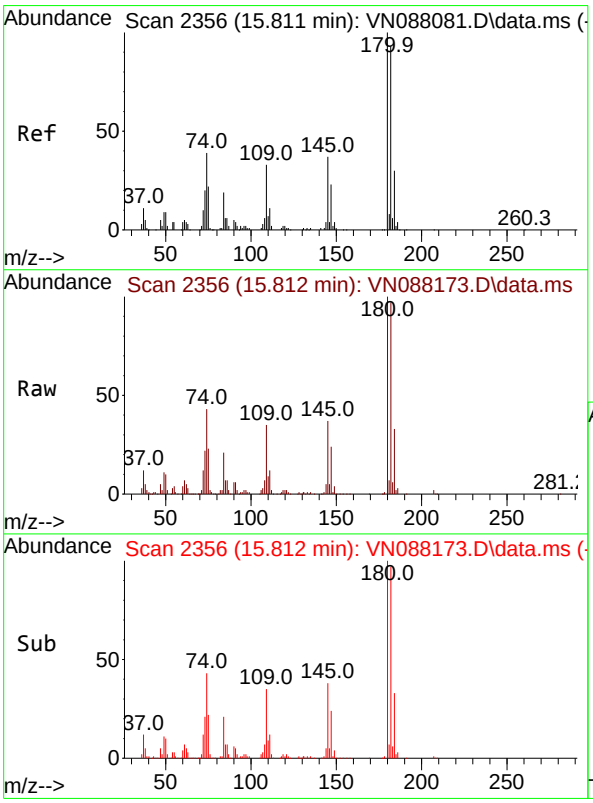
Tgt Ion:128 Resp: 89253

Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	15.8
129	10.7	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

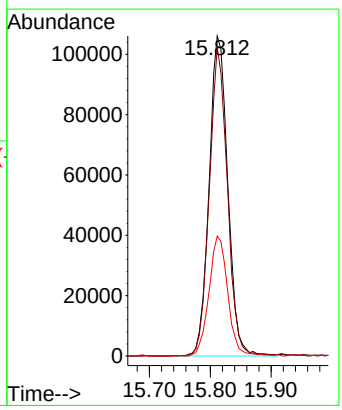
Manual Integrations
APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 48.784 ug/l
RT: 15.812 min Scan# 2356
Delta R.T. 0.000 min
Lab File: VN088173.D
Acq: 31 Oct 2025 09:18

Tgt Ion:180 Resp: 226425

Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.8	140.3
145	37.8	17.3	52.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088173.D
Acq On : 31 Oct 2025 09:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 01 00:25:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 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	89	0.00
2	T	Dichlorodifluoromethane	0.564	0.531	5.9	103	0.00
3	P	Chloromethane	0.664	0.649	2.3	111	0.00
4	C	Vinyl Chloride	0.723	0.710	1.8#	109	0.00
5	T	Bromomethane	0.432	0.441	-2.1	115	0.00
6	T	Chloroethane	0.521	0.483	7.3	104	0.00
7	T	Trichlorofluoromethane	1.153	1.046	9.3	97	0.00
8	T	Diethyl Ether	0.429	0.464	-8.2	129	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.595	0.557	6.4	104	0.00
10	T	Methyl Iodide	0.544	0.611	-12.3	119	0.00
11	T	Tert butyl alcohol	0.149	0.175	-17.4	135	0.00
12	CM	1,1-Dichloroethene	0.628	0.577	8.1#	111	0.00
13	T	Acrolein	0.168	0.215	-28.0#	154#	0.00
14	T	Allyl chloride	1.102	1.188	-7.8	130	0.00
15	T	Acrylonitrile	0.406	0.474	-16.7	130	0.00
16	T	Acetone	0.434	0.484	-11.5	135	0.00
17	T	Carbon Disulfide	1.910	1.754	8.2	105	0.00
18	T	Methyl Acetate	0.889	1.062	-19.5	137	0.00
19	T	Methyl tert-butyl Ether	2.308	2.708	-17.3	134	0.00
20	T	Methylene Chloride	0.729	0.770	-5.6	127	0.00
21	T	trans-1,2-Dichloroethene	0.690	0.692	-0.3	115	0.00
22	T	Diisopropyl ether	2.317	2.675	-15.5	126	0.00
23	T	Vinyl Acetate	2.087	2.487	-19.2	127	0.00
24	P	1,1-Dichloroethane	1.283	1.435	-11.8	124	0.00
25	T	2-Butanone	0.572	0.676	-18.2	129	0.00
26	T	2,2-Dichloropropane	1.166	1.253	-7.5	121	0.00
27	T	cis-1,2-Dichloroethene	0.794	0.860	-8.3	122	0.00
28	T	Bromochloromethane	0.606	0.704	-16.2	106	0.00
29	T	Tetrahydrofuran	0.373	0.426	-14.2	128	0.00
30	C	Chloroform	1.282	1.429	-11.5#	122	0.00
31	T	Cyclohexane	1.210	1.123	7.2	103	0.00
32	T	1,1,1-Trichloroethane	1.142	1.197	-4.8	117	0.00
33	S	1,2-Dichloroethane-d4	0.865	0.986	-14.0	110	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35	S	Dibromofluoromethane	0.336	0.348	-3.6	102	0.00
36	T	1,1-Dichloropropene	0.490	0.494	-0.8	112	0.00
37	T	Ethyl Acetate	0.633	0.705	-11.4	132	0.00
38	T	Carbon Tetrachloride	0.507	0.518	-2.2	114	0.00
39	T	Methylcyclohexane	0.630	0.521	17.3	92	0.00
40	TM	Benzene	1.494	1.567	-4.9	119	0.00
41	T	Methacrylonitrile	0.333	0.380	-14.1	129	0.00
42	TM	1,2-Dichloroethane	0.531	0.629	-18.5	133	0.00
43	T	Isopropyl Acetate	0.973	1.115	-14.6	127	0.00
44	TM	Trichloroethene	0.349	0.356	-2.0	115	0.00
45	C	1,2-Dichloropropane	0.377	0.406	-7.7#	122	0.00
46	T	Dibromomethane	0.269	0.304	-13.0	128	0.00
47	T	Bromodichloromethane	0.538	0.609	-13.2	128	0.00
48	T	Methyl methacrylate	0.449	0.540	-20.3	134	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088173.D
Acq On : 31 Oct 2025 09:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 01 00:25:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 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	0.006	0.008	-33.3#	157#	0.00
50	S	Toluene-d8	1.294	1.284	0.8	97	0.00
51	T	4-Methyl-2-Pentanone	0.575	0.673	-17.0	128	0.00
52	CM	Toluene	0.921	0.982	-6.6#	120	0.00
53	T	t-1,3-Dichloropropene	0.573	0.681	-18.8	131	0.00
54	T	cis-1,3-Dichloropropene	0.608	0.696	-14.5	128	0.00
55	T	1,1,2-Trichloroethane	0.349	0.375	-7.4	123	0.00
56	T	Ethyl methacrylate	0.553	0.666	-20.4	129	0.00
57	T	1,3-Dichloropropane	0.614	0.685	-11.6	125	0.00
58	T	2-Chloroethyl Vinyl ether	0.288	0.381	-32.3#	143	0.00
59	T	2-Hexanone	0.382	0.476	-24.6	132	0.00
60	T	Dibromochloromethane	0.397	0.443	-11.6	125	0.00
61	T	1,2-Dibromoethane	0.360	0.395	-9.7	126	0.00
62	S	4-Bromofluorobenzene	0.457	0.482	-5.5	101	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
64	T	Tetrachloroethene	0.330	0.320	3.0	113	0.00
65	PM	Chlorobenzene	1.135	1.187	-4.6	115	0.00
66	T	1,1,1,2-Tetrachloroethane	0.372	0.412	-10.8	121	0.00
67	C	Ethyl Benzene	1.993	2.125	-6.6#	117	0.00
68	T	m/p-Xylenes	0.747	0.787	-5.4	113	0.00
69	T	o-Xylene	0.708	0.770	-8.8	116	0.00
70	T	Styrene	1.154	1.322	-14.6	119	0.00
71	P	Bromoform	0.278	0.319	-14.7	125	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00
73	T	Isopropylbenzene	3.856	3.985	-3.3	111	0.00
74	T	N-amyl acetate	1.095	1.097	-0.2	106	0.00
75	P	1,1,2,2-Tetrachloroethane	1.201	1.303	-8.5	121	0.00
76	T	1,2,3-Trichloropropane	1.143	1.121	1.9	107	0.00
77	T	Bromobenzene	0.832	0.935	-12.4	121	0.00
78	T	n-propylbenzene	4.706	4.826	-2.5	109	0.00
79	T	2-Chlorotoluene	2.684	3.039	-13.2	120	0.00
80	T	1,3,5-Trimethylbenzene	3.203	3.351	-4.6	111	0.00
81	T	trans-1,4-Dichloro-2-butene	0.410	0.463	-12.9	130	0.00
82	T	4-Chlorotoluene	2.904	3.104	-6.9	117	0.00
83	T	tert-Butylbenzene	2.861	2.828	1.2	106	0.00
84	T	1,2,4-Trimethylbenzene	3.204	3.425	-6.9	112	0.00
85	T	sec-Butylbenzene	4.203	3.896	7.3	99	0.00
86	T	p-Isopropyltoluene	3.372	3.274	2.9	101	0.00
87	T	1,3-Dichlorobenzene	1.660	1.774	-6.9	114	0.00
88	T	1,4-Dichlorobenzene	1.783	1.830	-2.6	116	0.00
89	T	n-Butylbenzene	3.340	3.033	9.2	95	0.00
90	T	Hexachloroethane	0.653	0.606	7.2	100	0.00
91	T	1,2-Dichlorobenzene	1.600	1.694	-5.9	116	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.279	0.328	-17.6	136	0.00
93	T	1,2,4-Trichlorobenzene	0.969	0.953	1.7	108	0.00
94	T	Hexachlorobutadiene	0.361	0.298	17.5	90	0.00
95	T	Naphthalene	3.320	3.574	-7.7	116	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088173.D
Acq On : 31 Oct 2025 09:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 01 00:25:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 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	0.929	0.907	2.4	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088173.D
Acq On : 31 Oct 2025 09:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 01 00:25:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 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	89	0.00
2	T	Dichlorodifluoromethane	50.000	47.076	5.8	103	0.00
3	P	Chloromethane	50.000	48.913	2.2	111	0.00
4	C	Vinyl Chloride	50.000	49.116	1.8#	109	0.00
5	T	Bromomethane	50.000	50.990	-2.0	115	0.00
6	T	Chloroethane	50.000	46.331	7.3	104	0.00
7	T	Trichlorofluoromethane	50.000	45.362	9.3	97	0.00
8	T	Diethyl Ether	50.000	54.129	-8.3	129	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	46.834	6.3	104	0.00
10	T	Methyl Iodide	50.000	51.882	-3.8	119	0.00
11	T	Tert butyl alcohol	250.000	294.201	-17.7	135	0.00
12	CM	1,1-Dichloroethene	50.000	45.919	8.2#	111	0.00
13	T	Acrolein	250.000	320.945	-28.4#	154	0.00
14	T	Allyl chloride	50.000	53.916	-7.8	130	0.00
15	T	Acrylonitrile	250.000	292.005	-16.8	130	0.00
16	T	Acetone	250.000	278.469	-11.4	135	0.00
17	T	Carbon Disulfide	50.000	45.907	8.2	105	0.00
18	T	Methyl Acetate	50.000	59.739	-19.5	137	0.00
19	T	Methyl tert-butyl Ether	50.000	58.675	-17.3	134	0.00
20	T	Methylene Chloride	50.000	56.820	-13.6	127	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.180	-0.4	115	0.00
22	T	Diisopropyl ether	50.000	57.733	-15.5	126	0.00
23	T	Vinyl Acetate	250.000	297.911	-19.2	127	0.00
24	P	1,1-Dichloroethane	50.000	55.910	-11.8	124	0.00
25	T	2-Butanone	250.000	295.337	-18.1	129	0.00
26	T	2,2-Dichloropropane	50.000	53.739	-7.5	121	0.00
27	T	cis-1,2-Dichloroethene	50.000	54.132	-8.3	122	0.00
28	T	Bromochloromethane	50.000	58.085	-16.2	106	0.00
29	T	Tetrahydrofuran	250.000	285.379	-14.2	128	0.00
30	C	Chloroform	50.000	55.749	-11.5#	122	0.00
31	T	Cyclohexane	50.000	46.389	7.2	103	0.00
32	T	1,1,1-Trichloroethane	50.000	52.437	-4.9	117	0.00
33	S	1,2-Dichloroethane-d4	50.000	57.041	-14.1	110	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35	S	Dibromofluoromethane	50.000	51.793	-3.6	102	0.00
36	T	1,1-Dichloropropene	50.000	50.368	-0.7	112	0.00
37	T	Ethyl Acetate	50.000	55.713	-11.4	132	0.00
38	T	Carbon Tetrachloride	50.000	51.098	-2.2	114	0.00
39	T	Methylcyclohexane	50.000	41.340	17.3	92	0.00
40	TM	Benzene	50.000	52.459	-4.9	119	0.00
41	T	Methacrylonitrile	50.000	57.090	-14.2	129	0.00
42	TM	1,2-Dichloroethane	50.000	59.258	-18.5	133	0.00
43	T	Isopropyl Acetate	50.000	57.311	-14.6	127	0.00
44	TM	Trichloroethene	50.000	50.951	-1.9	115	0.00
45	C	1,2-Dichloropropane	50.000	53.869	-7.7#	122	0.00
46	T	Dibromomethane	50.000	56.451	-12.9	128	0.00
47	T	Bromodichloromethane	50.000	56.590	-13.2	128	0.00
48	T	Methyl methacrylate	50.000	60.107	-20.2	134	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088173.D
Acq On : 31 Oct 2025 09:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 01 00:25:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 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	1346.410	-34.6#	157	0.00
50	S	Toluene-d8	50.000	49.594	0.8	97	0.00
51	T	4-Methyl-2-Pentanone	250.000	292.374	-16.9	128	0.00
52	CM	Toluene	50.000	53.325	-6.7#	120	0.00
53	T	t-1,3-Dichloropropene	50.000	59.446	-18.9	131	0.00
54	T	cis-1,3-Dichloropropene	50.000	57.241	-14.5	128	0.00
55	T	1,1,2-Trichloroethane	50.000	53.598	-7.2	123	0.00
56	T	Ethyl methacrylate	50.000	60.248	-20.5	129	0.00
57	T	1,3-Dichloropropane	50.000	55.761	-11.5	125	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	331.478	-32.6#	143	0.00
59	T	2-Hexanone	250.000	311.587	-24.6	132	0.00
60	T	Dibromochloromethane	50.000	55.728	-11.5	125	0.00
61	T	1,2-Dibromoethane	50.000	54.956	-9.9	126	0.00
62	S	4-Bromofluorobenzene	50.000	52.690	-5.4	101	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	91	0.00
64	T	Tetrachloroethene	50.000	48.549	2.9	113	0.00
65	PM	Chlorobenzene	50.000	52.271	-4.5	115	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	55.331	-10.7	121	0.00
67	C	Ethyl Benzene	50.000	53.305	-6.6#	117	0.00
68	T	m/p-Xylenes	100.000	105.437	-5.4	113	0.00
69	T	o-Xylene	50.000	54.394	-8.8	116	0.00
70	T	Styrene	50.000	57.279	-14.6	119	0.00
71	P	Bromoform	50.000	57.455	-14.9	125	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	89	0.00
73	T	Isopropylbenzene	50.000	51.666	-3.3	111	0.00
74	T	N-amyl acetate	50.000	50.122	-0.2	106	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	54.244	-8.5	121	0.00
76	T	1,2,3-Trichloropropane	50.000	49.011	2.0	107	0.00
77	T	Bromobenzene	50.000	56.234	-12.5	121	0.00
78	T	n-propylbenzene	50.000	51.277	-2.6	109	0.00
79	T	2-Chlorotoluene	50.000	56.614	-13.2	120	0.00
80	T	1,3,5-Trimethylbenzene	50.000	52.310	-4.6	111	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	56.448	-12.9	130	0.00
82	T	4-Chlorotoluene	50.000	53.449	-6.9	117	0.00
83	T	tert-Butylbenzene	50.000	49.424	1.2	106	0.00
84	T	1,2,4-Trimethylbenzene	50.000	53.443	-6.9	112	0.00
85	T	sec-Butylbenzene	50.000	46.347	7.3	99	0.00
86	T	p-Isopropyltoluene	50.000	48.545	2.9	101	0.00
87	T	1,3-Dichlorobenzene	50.000	53.437	-6.9	114	0.00
88	T	1,4-Dichlorobenzene	50.000	51.315	-2.6	116	0.00
89	T	n-Butylbenzene	50.000	45.407	9.2	95	0.00
90	T	Hexachloroethane	50.000	46.408	7.2	100	0.00
91	T	1,2-Dichlorobenzene	50.000	52.921	-5.8	116	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	58.659	-17.3	136	0.00
93	T	1,2,4-Trichlorobenzene	50.000	49.180	1.6	108	0.00
94	T	Hexachlorobutadiene	50.000	41.349	17.3	90	0.00
95	T	Naphthalene	50.000	53.823	-7.6	116	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088173.D
Acq On : 31 Oct 2025 09:18
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Nov 01 00:25:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 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	48.784	2.4	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: ROYF02

Lab Code: ACE | SDG No.: Q3447

Instrument ID: MSVOA_Y | Calibration Date/Time: 11/03/2025 09:25

Lab File ID: VY023647.D | Init. Calib. Date(s): 10/07/2025 10/07/2025

Heated Purge: (Y/N) Y | Init. Calib. Time(s): 09:17 12:32

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.360	0.304		-15.56	20
Chloromethane	0.490	0.411	0.1	-16.12	20
Vinyl Chloride	0.639	0.571		-10.64	20
Bromomethane	0.536	0.465		-13.25	20
Chloroethane	0.435	0.418		-3.91	20
Trichlorofluoromethane	0.887	0.885		-0.22	20
1,1,2-Trichlorotrifluoroethane	0.460	0.497		8.04	20
1,1-Dichloroethene	0.446	0.463		3.81	20
Acetone	0.100	0.109		9	20
Carbon Disulfide	1.277	1.190		-6.81	20
Methyl tert-butyl Ether	1.072	1.196		11.57	20
Methyl Acetate	0.261	0.343		31.42	20
Methylene Chloride	0.538	0.512		-4.83	20
trans-1,2-Dichloroethene	0.491	0.524		6.72	20
1,1-Dichloroethane	0.796	0.878	0.1	10.3	20
Cyclohexane	0.696	0.691		-0.72	20
2-Butanone	0.122	0.129		5.74	20
Carbon Tetrachloride	0.493	0.558		13.19	20
cis-1,2-Dichloroethene	0.567	0.634		11.82	20
Bromochloromethane	0.297	0.281		-5.39	20
Chloroform	0.875	0.995		13.71	20
1,1,1-Trichloroethane	0.795	0.889		11.82	20
Methylcyclohexane	0.530	0.575		8.49	20
Benzene	1.288	1.451		12.65	20
1,2-Dichloroethane	0.332	0.365		9.94	20
Trichloroethene	0.377	0.418		10.88	20
1,2-Dichloropropane	0.285	0.325		14.03	20
Bromodichloromethane	0.453	0.517		14.13	20
4-Methyl-2-Pentanone	0.166	0.191		15.06	20
Toluene	0.836	0.958		14.59	20
t-1,3-Dichloropropene	0.394	0.447		13.45	20
cis-1,3-Dichloropropene	0.465	0.529		13.76	20
1,1,2-Trichloroethane	0.242	0.278		14.88	20
2-Hexanone	0.119	0.135		13.44	20
Dibromochloromethane	0.339	0.388		14.45	20
1,2-Dibromoethane	0.231	0.258		11.69	20
Tetrachloroethene	0.516	0.598		15.89	20
Chlorobenzene	1.087	1.212	0.3	11.5	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	ROYF02
Lab Code:	ACE	SDG No.:	Q3447
Instrument ID:	MSVOA_Y	Calibration Date/Time:	11/03/2025 09:25
Lab File ID:	VY023647.D	Init. Calib. Date(s):	10/07/2025 10/07/2025
Heated Purge: (Y/N)	Y	Init. Calib. Time(s):	09:17 12:32

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.760	2.043		16.08	20
m/p-Xylenes	0.706	0.814		15.3	20
o-Xylene	0.662	0.770		16.31	20
Styrene	1.089	1.273		16.9	20
Bromoform	0.240	0.269	0.1	12.08	20
Isopropylbenzene	3.295	3.970		20.49	20
1,1,2,2-Tetrachloroethane	0.539	0.605	0.3	12.24	20
1,3-Dichlorobenzene	1.706	1.906		11.72	20
1,4-Dichlorobenzene	1.685	1.856		10.15	20
1,2-Dichlorobenzene	1.496	1.656		10.69	20
1,2-Dibromo-3-Chloropropane	0.088	0.092		4.55	20
1,2,4-Trichlorobenzene	0.932	0.972		4.29	20
1,2,3-Trichlorobenzene	0.808	0.817		1.11	20
1,2-Dichloroethane-d4	0.418	0.397		-5.02	20
Dibromofluoromethane	0.307	0.311		1.3	20
Toluene-d8	1.144	1.145		0.09	20
4-Bromofluorobenzene	0.378	0.383		1.32	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_Y\Data\VY110325\
Data File : VY023647.D
Acq On : 03 Nov 2025 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 01:28:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	496628	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	715866	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	628292	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	317717	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	197387	47.530	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 95.060%			
35) Dibromofluoromethane	7.634	113	222831	50.659	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.320%			
50) Toluene-d8	10.109	98	820012	50.059	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.120%			
62) 4-Bromofluorobenzene	12.408	95	274049	50.673	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.340%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	151134	42.279	ug/l	99
3) Chloromethane	2.074	50	204069	41.906	ug/l	98
4) Vinyl Chloride	2.208	62	283763	44.739	ug/l	100
5) Bromomethane	2.598	94	230773	43.356	ug/l	96
6) Chloroethane	2.739	64	207542	48.003	ug/l	100
7) Trichlorofluoromethane	3.056	101	439308	49.884	ug/l	98
8) Diethyl Ether	3.458	74	120352	52.299	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.818	101	246672	53.977	ug/l	100
10) Methyl Iodide	4.007	142	296397	58.260	ug/l	99
11) Tert butyl alcohol	4.854	59	83483	270.215	ug/l	99
12) 1,1-Dichloroethene	3.793	96	230067	51.933	ug/l	97
13) Acrolein	3.653	56	16501	37.798	ug/l	95
14) Allyl chloride	4.391	41	292093	54.102	ug/l	99
15) Acrylonitrile	5.061	53	237922	270.161	ug/l	99
16) Acetone	3.867	43	271005	274.111	ug/l	99
17) Carbon Disulfide	4.110	76	590947	46.607	ug/l	98
18) Methyl Acetate	4.385	43	170375	65.693	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	593982	55.787	ug/l	99
20) Methylene Chloride	4.616	84	254480	47.601	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	260089	53.326	ug/l	96
22) Diisopropyl ether	6.025	45	675371	56.552	ug/l	97
23) Vinyl Acetate	5.964	43	1692382	261.811	ug/l	99
24) 1,1-Dichloroethane	5.915	63	435826	55.093	ug/l	97
25) 2-Butanone	6.896	43	319327	264.561	ug/l	96
26) 2,2-Dichloropropane	6.890	77	414266	57.071	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	314868	55.888	ug/l	99
28) Bromochloromethane	7.250	49	139440	47.217	ug/l	100
29) Tetrahydrofuran	7.262	42	181686	265.445	ug/l	100
30) Chloroform	7.421	83	494121	56.851	ug/l	98
31) Cyclohexane	7.701	56	343204	49.679	ug/l	97
32) 1,1,1-Trichloroethane	7.616	97	441382	55.882	ug/l	100
36) 1,1-Dichloropropene	7.835	75	327988	56.323	ug/l	99
37) Ethyl Acetate	6.982	43	121162	52.518	ug/l	100
38) Carbon Tetrachloride	7.817	117	399300	56.549	ug/l	98
39) Methylcyclohexane	9.109	83	411369	54.255	ug/l	99
40) Benzene	8.079	78	1038669	56.320	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023647.D
Acq On : 03 Nov 2025 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 01:28:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	63522	50.909	ug/l		94
42) 1,2-Dichloroethane	8.158	62	261072	54.890	ug/l		100
43) Isopropyl Acetate	8.195	43	246304	53.541	ug/l		99
44) Trichloroethene	8.866	130	299034	55.399	ug/l		100
45) 1,2-Dichloropropane	9.140	63	232314	57.032	ug/l		99
46) Dibromomethane	9.231	93	144652	56.159	ug/l		98
47) Bromodichloromethane	9.427	83	369796	57.004	ug/l		98
48) Methyl methacrylate	9.219	41	119406	55.250	ug/l		97
49) 1,4-Dioxane	9.225	88	31348	1049.697	ug/l		100
51) 4-Methyl-2-Pentanone	10.000	43	683388	287.521	ug/l		100
52) Toluene	10.170	92	685867	57.279	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	319955	56.723	ug/l		97
54) cis-1,3-Dichloropropene	9.859	75	378814	56.902	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	198760	57.383	ug/l		95
56) Ethyl methacrylate	10.439	69	228821	57.270	ug/l		99
57) 1,3-Dichloropropane	10.719	76	310099	56.498	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	498036	278.254	ug/l		99
59) 2-Hexanone	10.762	43	481844	283.674	ug/l		99
60) Dibromochloromethane	10.914	129	277423	57.128	ug/l		99
61) 1,2-Dibromoethane	11.018	107	184959	55.991	ug/l		100
64) Tetrachloroethene	10.646	164	375658	57.906	ug/l		98
65) Chlorobenzene	11.444	112	761268	55.709	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	281558	57.820	ug/l		98
67) Ethyl Benzene	11.518	91	1283794	58.039	ug/l		98
68) m/p-Xylenes	11.627	106	1022909	115.295	ug/l		98
69) o-Xylene	11.957	106	483564	58.108	ug/l		100
70) Styrene	11.969	104	799871	58.450	ug/l		99
71) Bromoform	12.133	173	169143	55.997	ug/l	#	99
73) Isopropylbenzene	12.255	105	1261412	60.245	ug/l		100
74) N-amyl acetate	12.072	43	201782	53.654	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	192259	56.142	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	146778m	52.363	ug/l		
77) Bromobenzene	12.530	156	317380	57.017	ug/l		98
78) n-propylbenzene	12.597	91	1461093	60.302	ug/l		99
79) 2-Chlorotoluene	12.676	91	834284	58.799	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	1022473	60.432	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	64493	56.419	ug/l		99
82) 4-Chlorotoluene	12.780	91	853654	58.419	ug/l		99
83) tert-Butylbenzene	12.999	119	943581	60.401	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	1005291	59.536	ug/l		99
85) sec-Butylbenzene	13.176	105	1351406	60.305	ug/l		99
86) p-Isopropyltoluene	13.292	119	1144013	59.959	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	605626	55.872	ug/l		99
88) 1,4-Dichlorobenzene	13.365	146	589557	55.070	ug/l		100
89) n-Butylbenzene	13.615	91	989776	59.536	ug/l		99
90) Hexachloroethane	13.877	117	234735	57.201	ug/l		98
91) 1,2-Dichlorobenzene	13.657	146	526050	55.355	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	29344	52.223	ug/l		100
93) 1,2,4-Trichlorobenzene	14.919	180	308948	52.147	ug/l		99
94) Hexachlorobutadiene	15.023	225	200898	54.398	ug/l		99
95) Naphthalene	15.145	128	480317	50.912	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	259452	50.559	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023647.D
Acq On : 03 Nov 2025 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 04 01:28:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

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

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

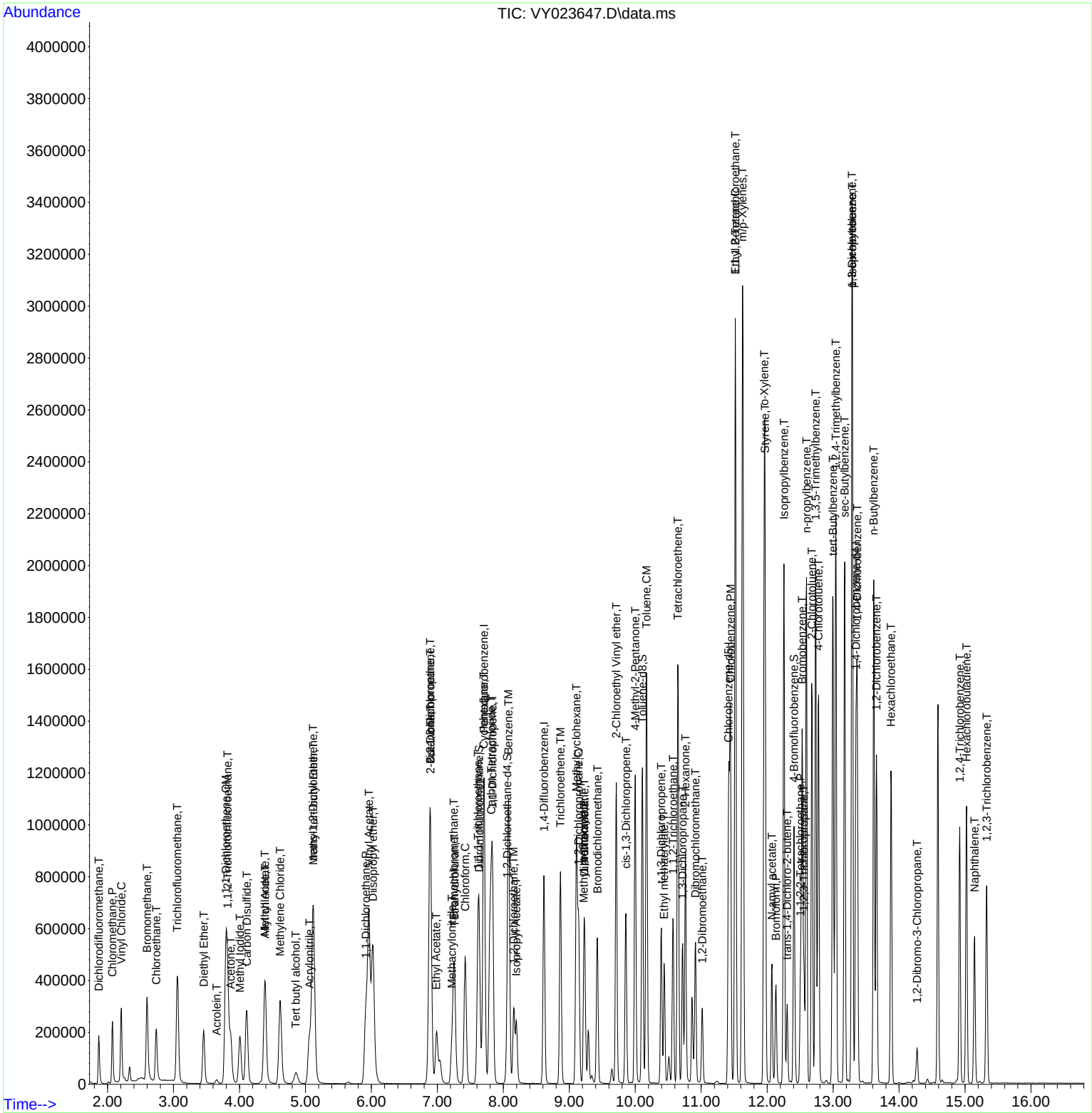
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Data File : VY023647.D
Acq On : 03 Nov 2025 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

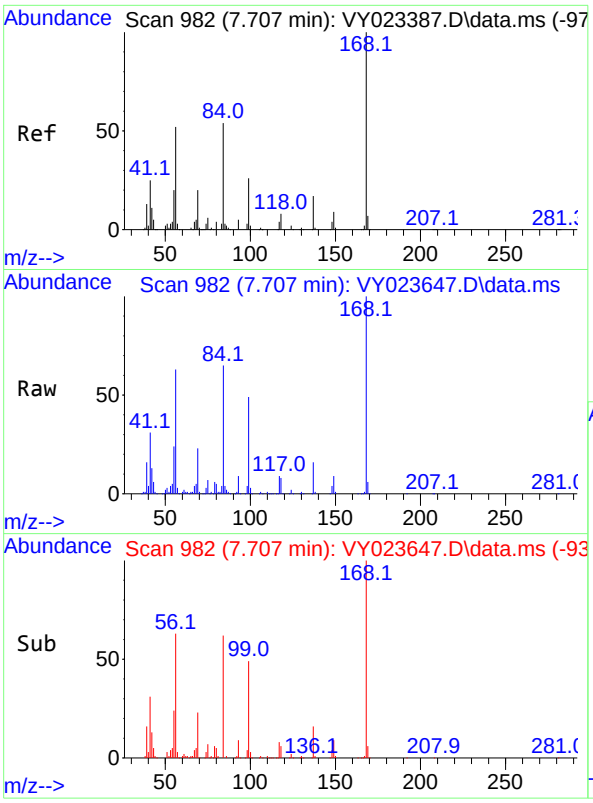
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Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

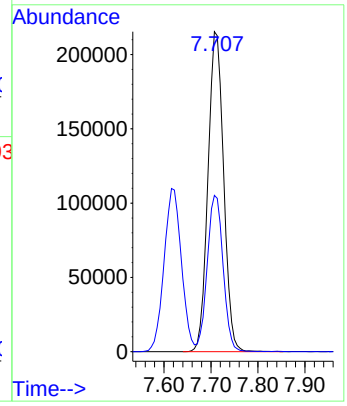




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:168 Resp: 49662

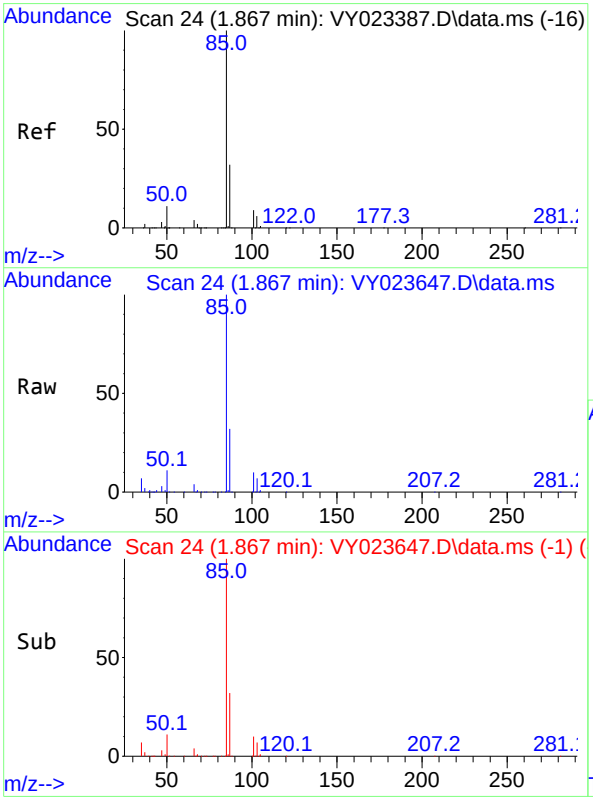
Ion	Ratio	Lower	Upper
168	100		
99	48.8	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

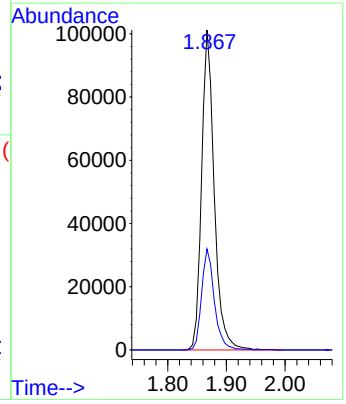
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

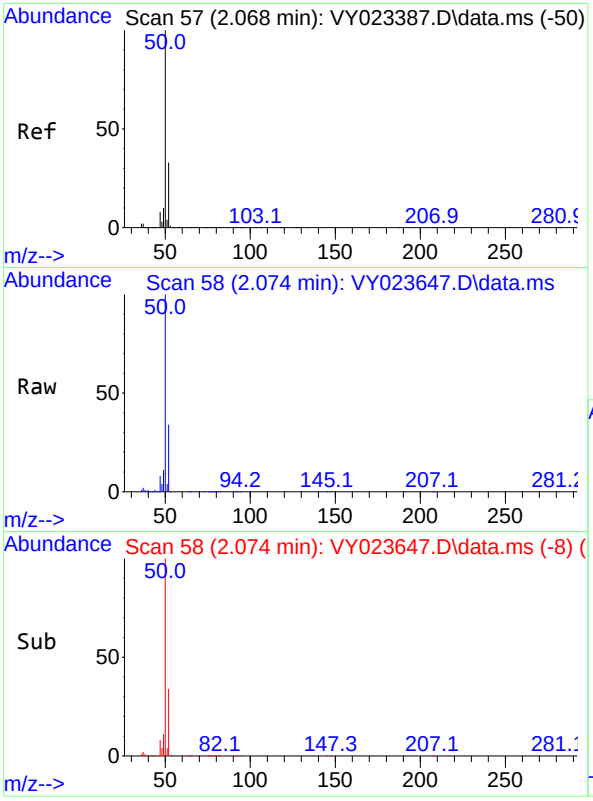


#2
Dichlorodifluoromethane
Concen: 42.279 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 85 Resp: 151134

Ion	Ratio	Lower	Upper
85	100		
87	31.6	16.0	47.9

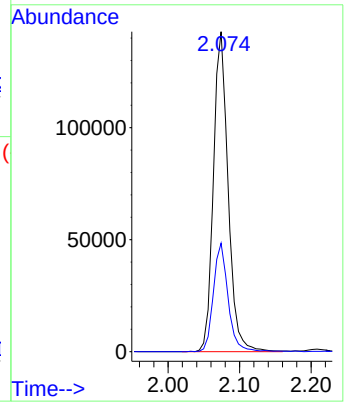




#3
Chloromethane
Concen: 41.906 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 50 Resp: 20406

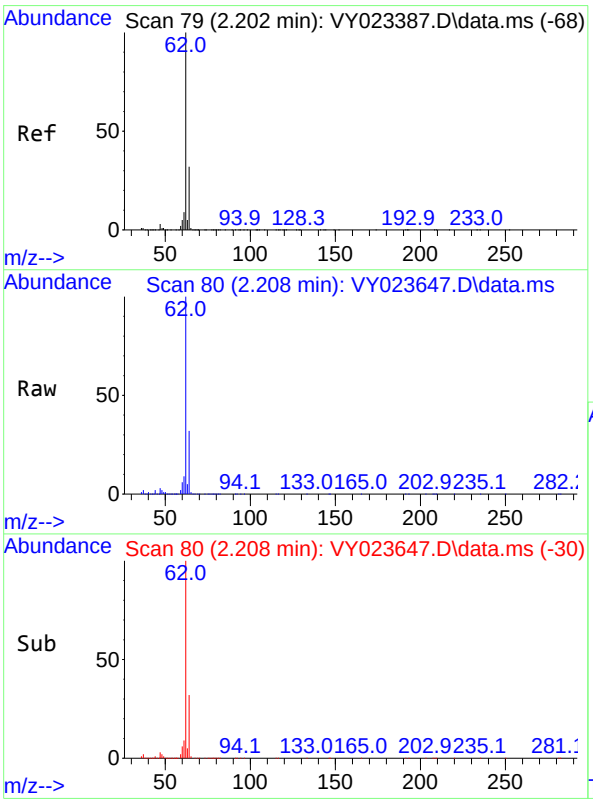
Ion	Ratio	Lower	Upper
50	100		
52	33.9	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

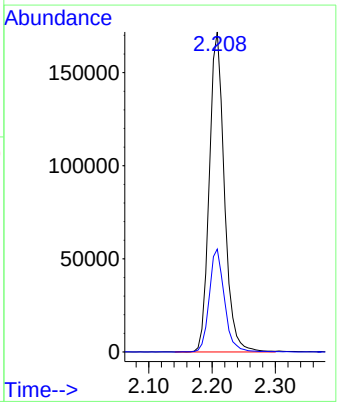
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

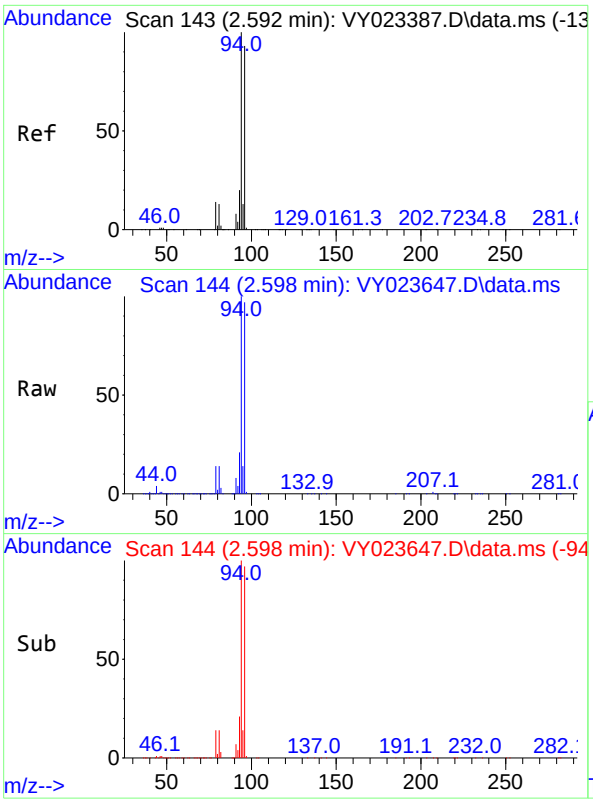


#4
Vinyl Chloride
Concen: 44.739 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 62 Resp: 283763

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.8	38.8

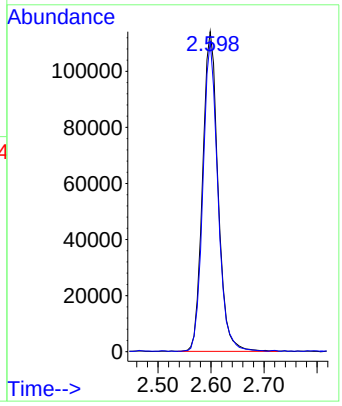




#5
Bromomethane
Concen: 43.356 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 94 Resp: 23077

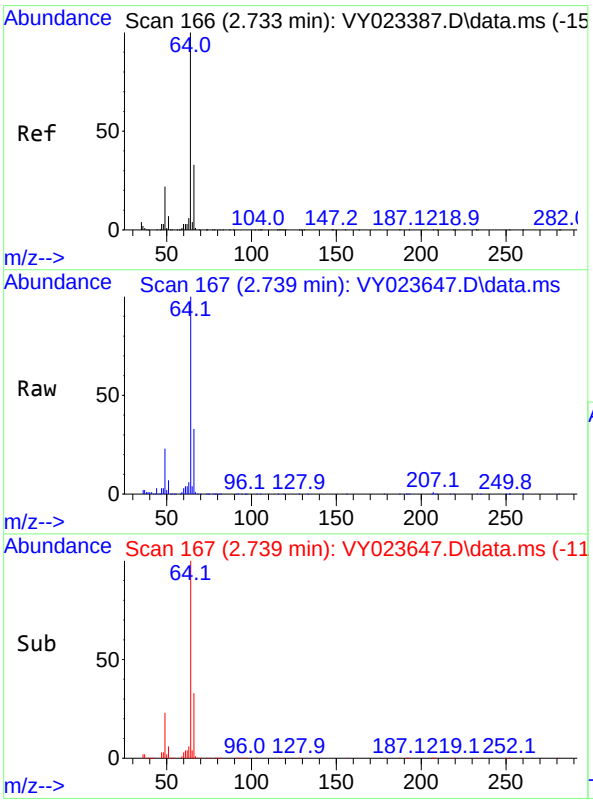
Ion	Ratio	Lower	Upper
94	100		
96	97.1	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

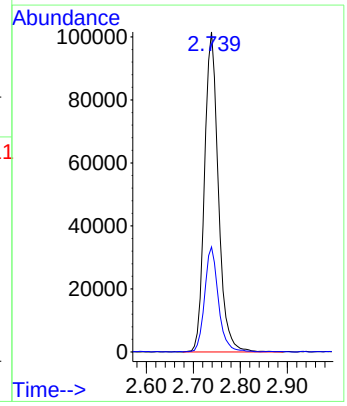
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

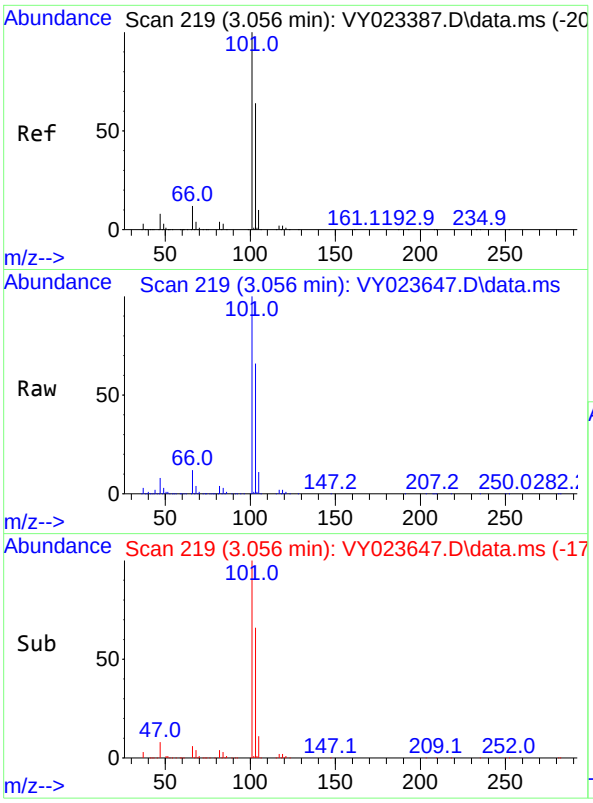


#6
Chloroethane
Concen: 48.003 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 64 Resp: 207542

Ion	Ratio	Lower	Upper
64	100		
66	32.7	26.2	39.4

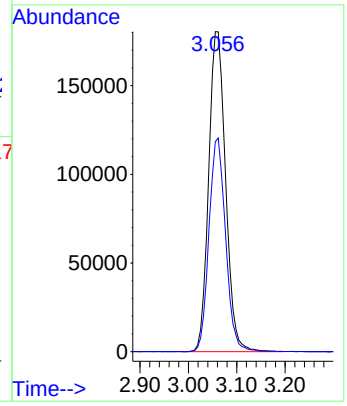




#7
Trichlorofluoromethane
Concen: 49.884 ug/l
RT: 3.056 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:101 Resp: 43930

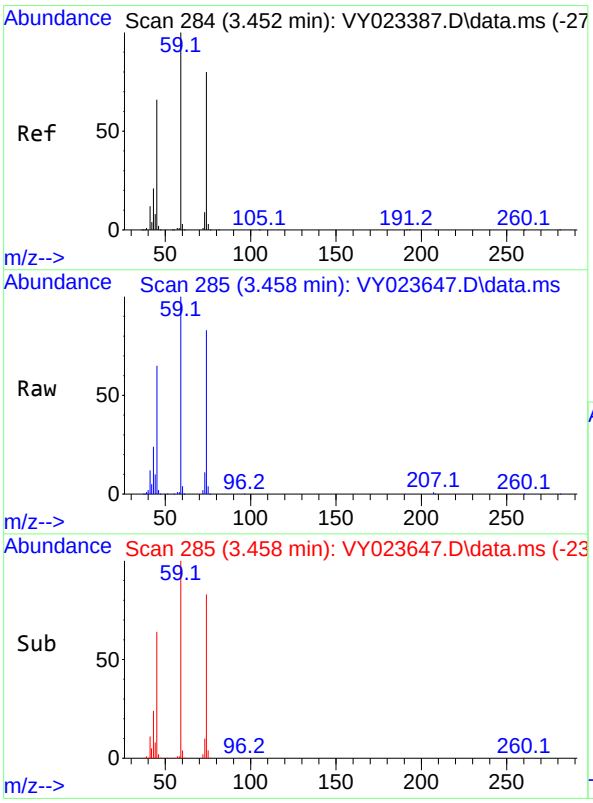
Ion	Ratio	Lower	Upper
101	100		
103	65.6	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

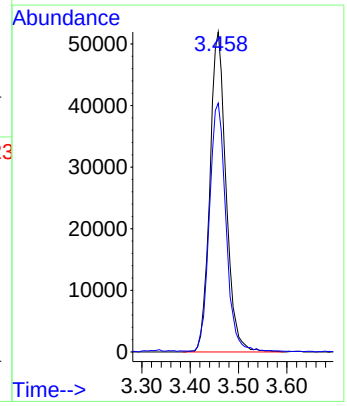
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

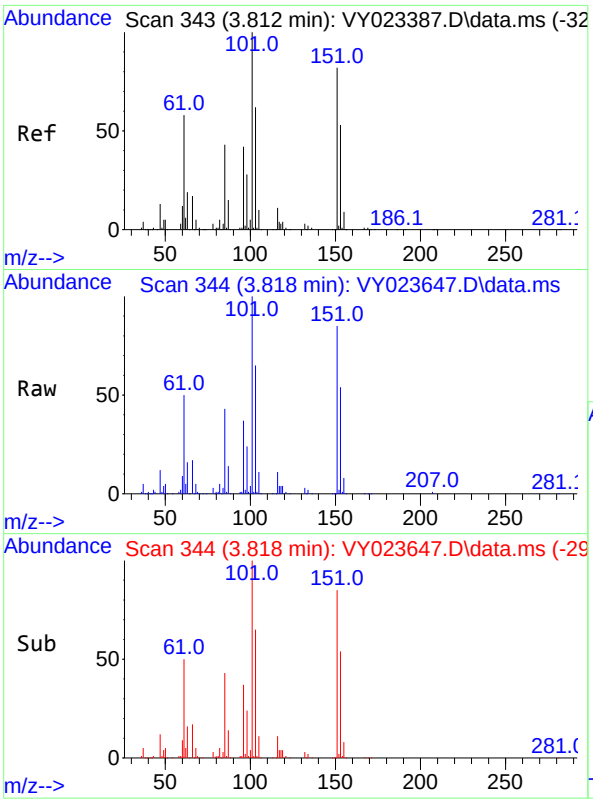


#8
Diethyl Ether
Concen: 52.299 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 74 Resp: 120352

Ion	Ratio	Lower	Upper
74	100		
45	79.7	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.977 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

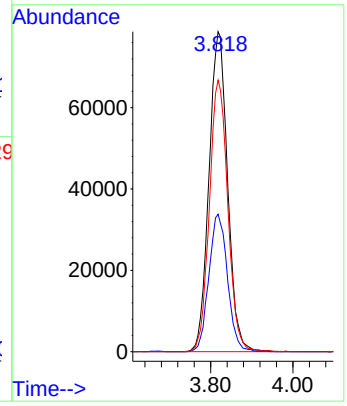
Tgt Ion:101 Resp: 24667

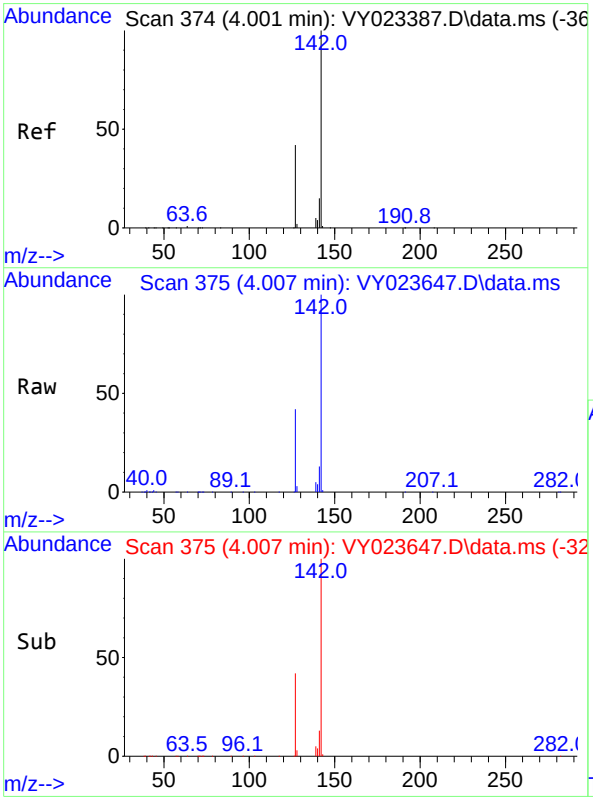
Ion	Ratio	Lower	Upper
101	100		
85	43.1	34.6	51.8
151	84.1	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

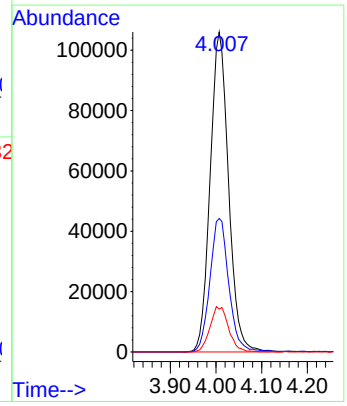


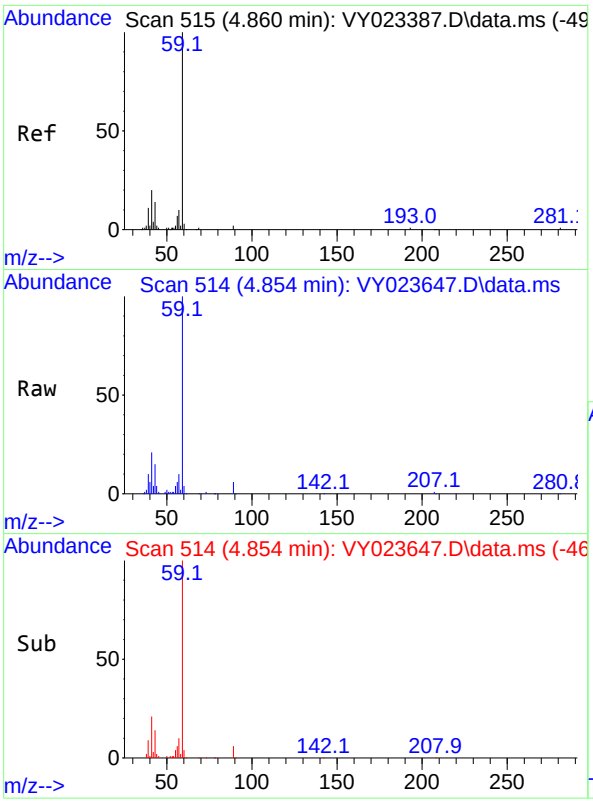


#10
Methyl Iodide
Concen: 58.260 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:142 Resp: 296397

Ion	Ratio	Lower	Upper
142	100		
127	42.9	34.8	52.2
141	14.4	11.6	17.4

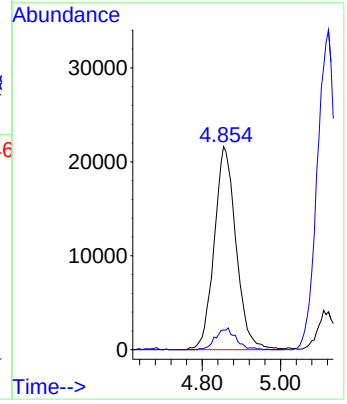




#11
Tert butyl alcohol
Concen: 270.215 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 59 Resp: 8348

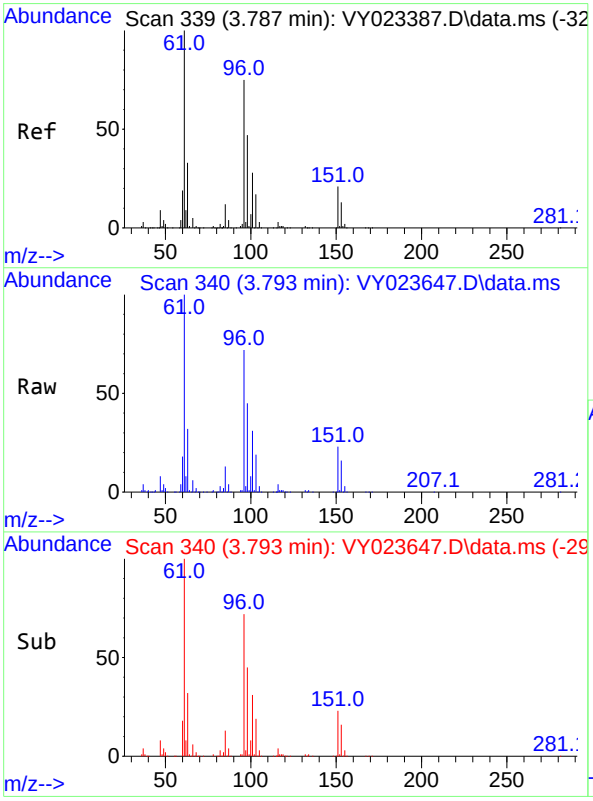
Ion	Ratio	Lower	Upper
59	100		
57	9.9	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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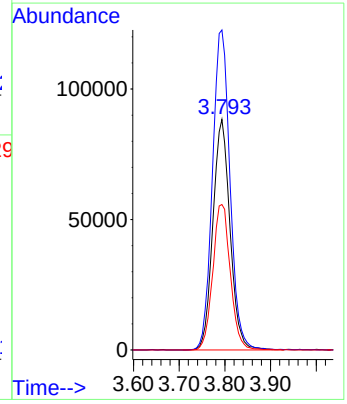
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

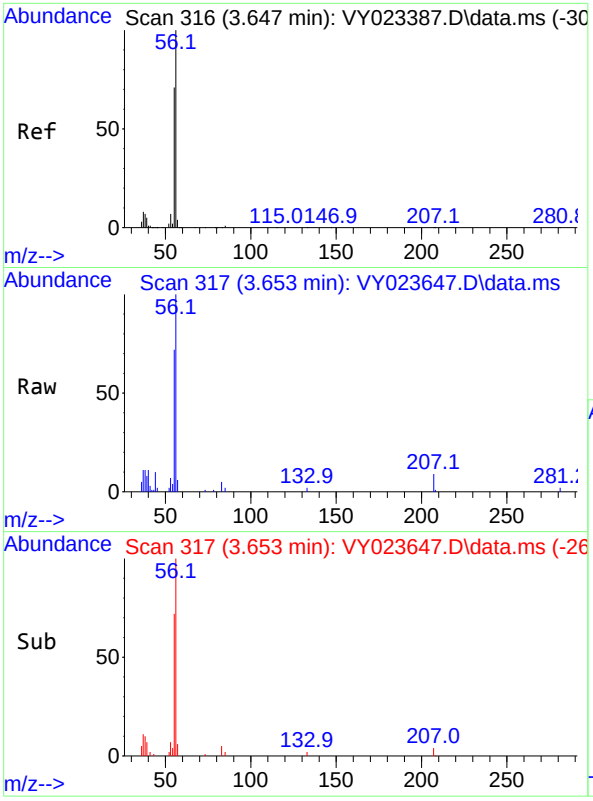


#12
1,1-Dichloroethene
Concen: 51.933 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 96 Resp: 230067

Ion	Ratio	Lower	Upper
96	100		
61	138.8	106.7	160.1
98	63.1	50.2	75.4

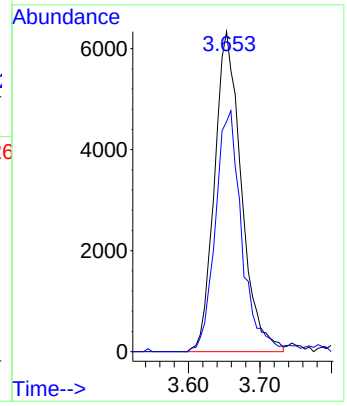




#13
Acrolein
Concen: 37.798 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 56 Resp: 1650

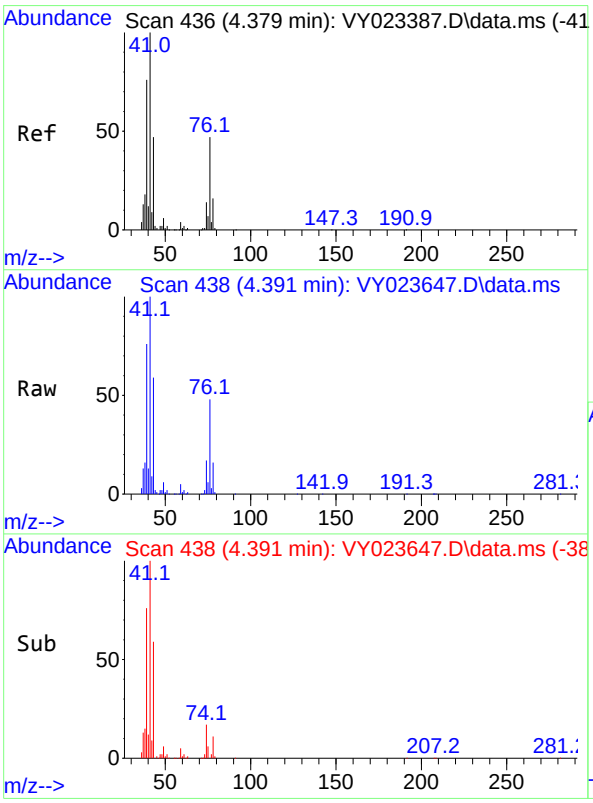
Ion	Ratio	Lower	Upper
56	100		
55	73.9	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

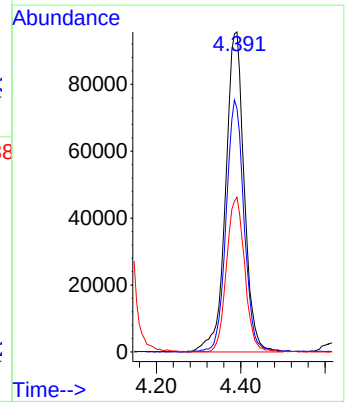
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

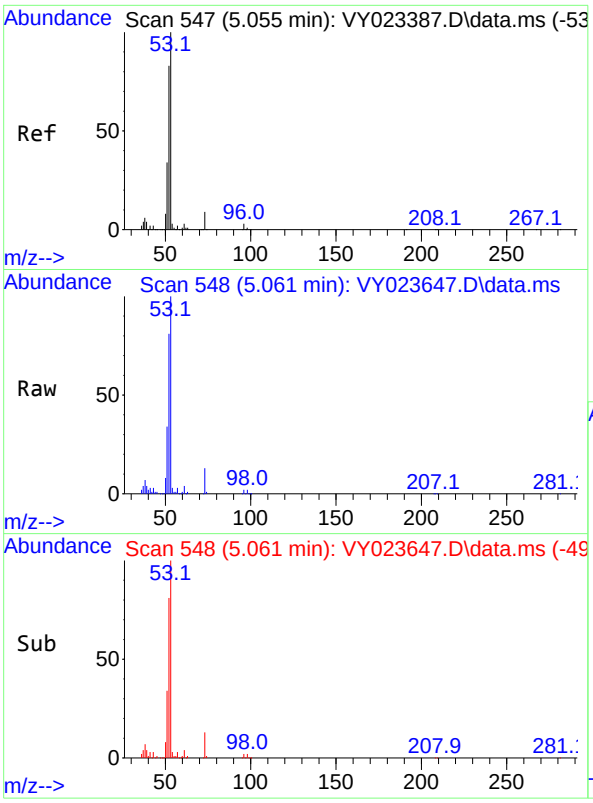


#14
Allyl chloride
Concen: 54.102 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.012 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 41 Resp: 292093

Ion	Ratio	Lower	Upper
41	100		
39	75.9	59.9	89.9
76	47.0	38.0	57.0





#15
Acrylonitrile
Concen: 270.161 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

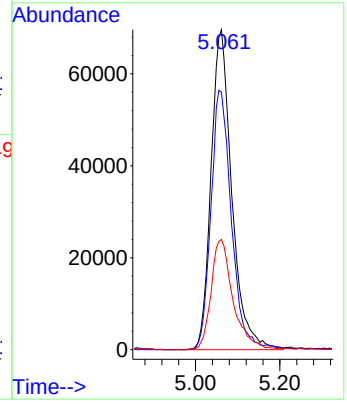
Tgt Ion: 53 Resp: 23792

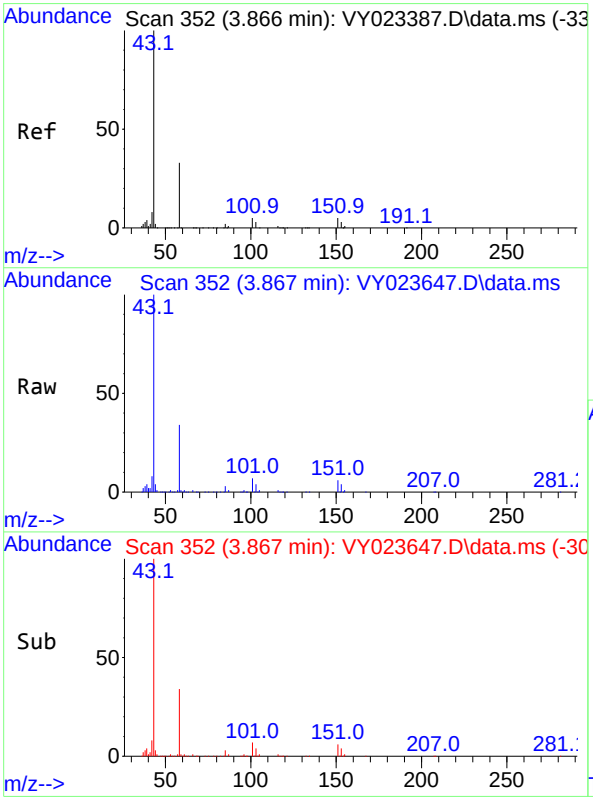
Ion	Ratio	Lower	Upper
53	100		
52	79.5	64.6	97.0
51	36.4	29.5	44.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

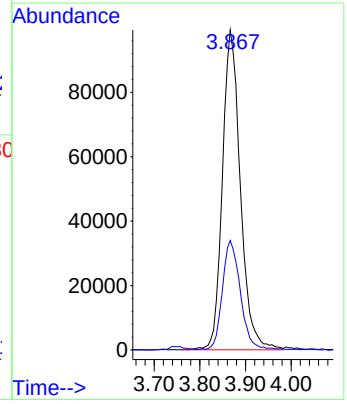


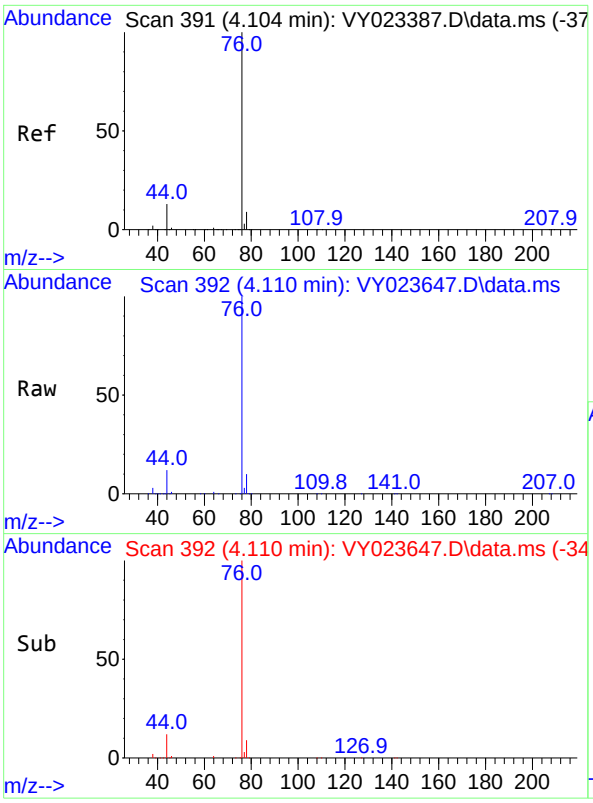


#16
Acetone
Concen: 274.111 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 43 Resp: 271005

Ion	Ratio	Lower	Upper
43	100		
58	33.9	27.7	41.5

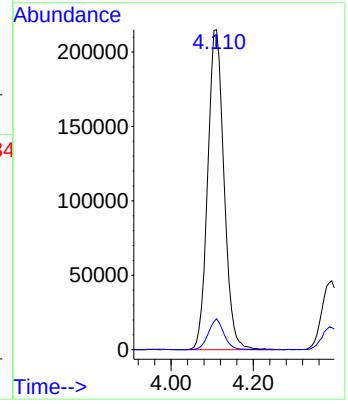




#17
Carbon Disulfide
Concen: 46.607 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 76 Resp: 59094

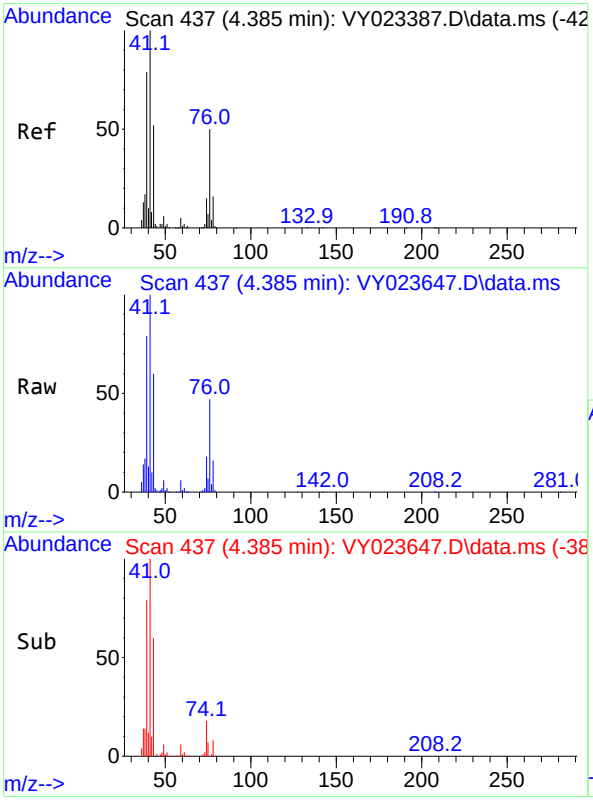
Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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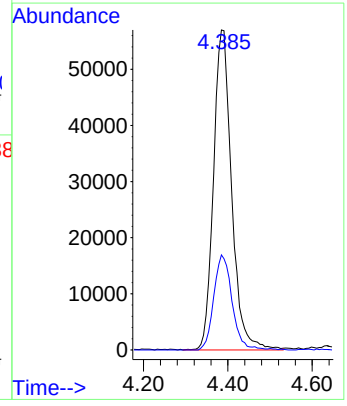
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

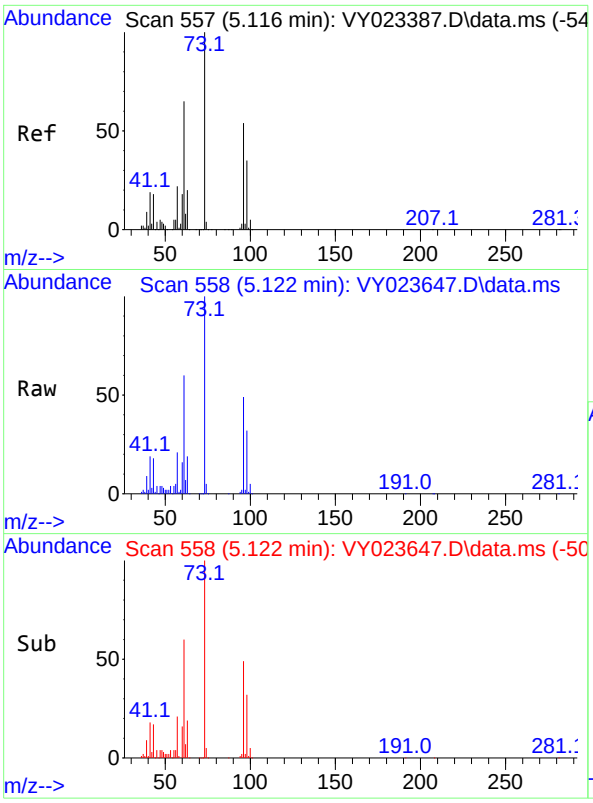


#18
Methyl Acetate
Concen: 65.693 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 43 Resp: 170375

Ion	Ratio	Lower	Upper
43	100		
74	29.8	24.2	36.4

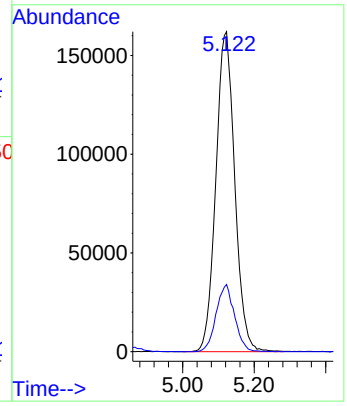




#19
Methyl tert-butyl Ether
Concen: 55.787 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 73 Resp: 59398

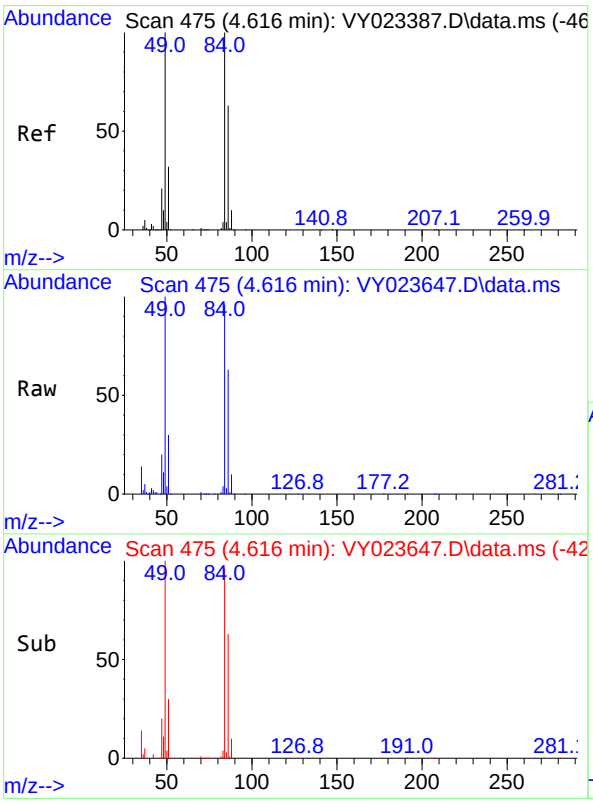
Ion	Ratio	Lower	Upper
73	100		
57	21.0	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

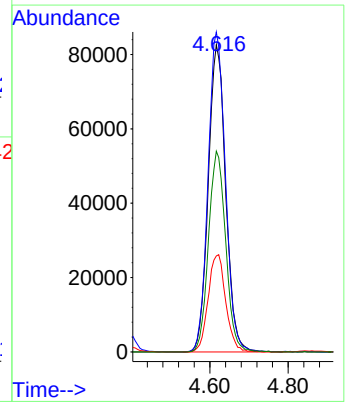
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

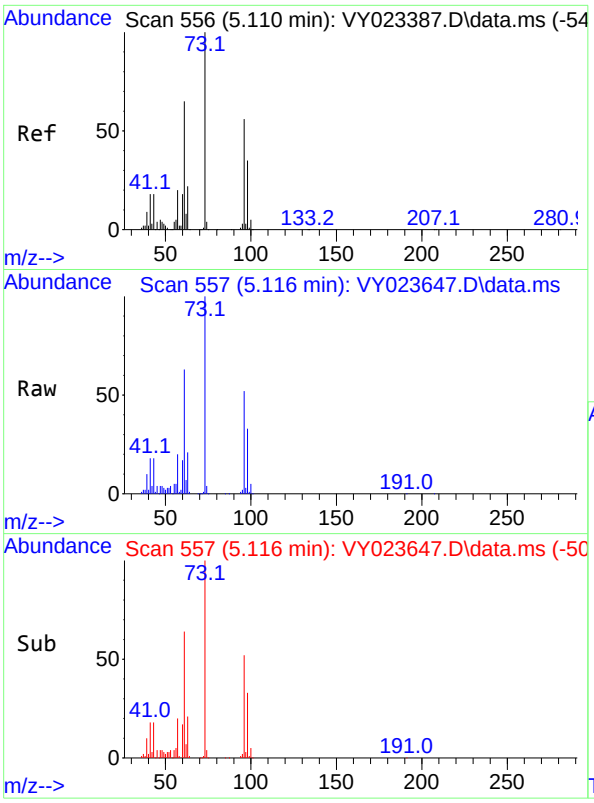


#20
Methylene Chloride
Concen: 47.601 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 84 Resp: 254480

Ion	Ratio	Lower	Upper
84	100		
49	104.2	80.2	120.4
51	31.2	25.9	38.9
86	65.4	50.6	75.8

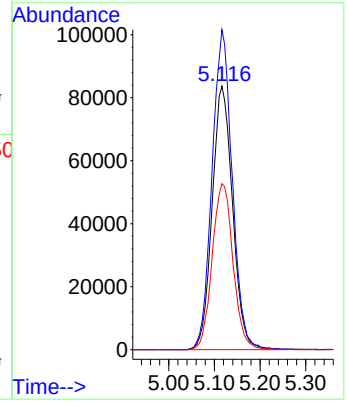




#21
trans-1,2-Dichloroethene
Concen: 53.326 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 96 Resp: 26008

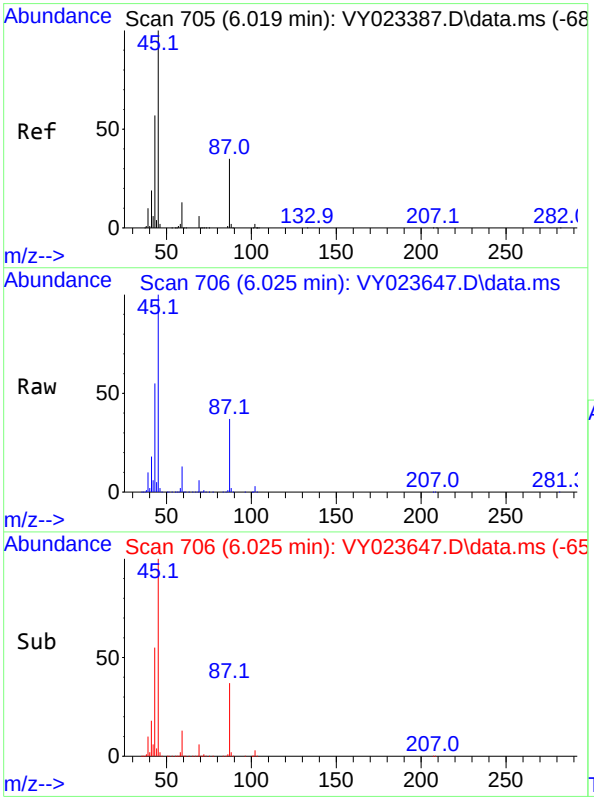
Ion	Ratio	Lower	Upper
96	100		
61	121.4	92.7	139.1
98	63.0	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

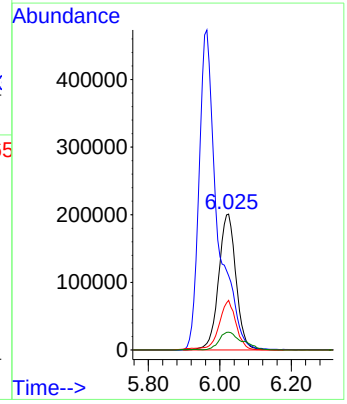
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

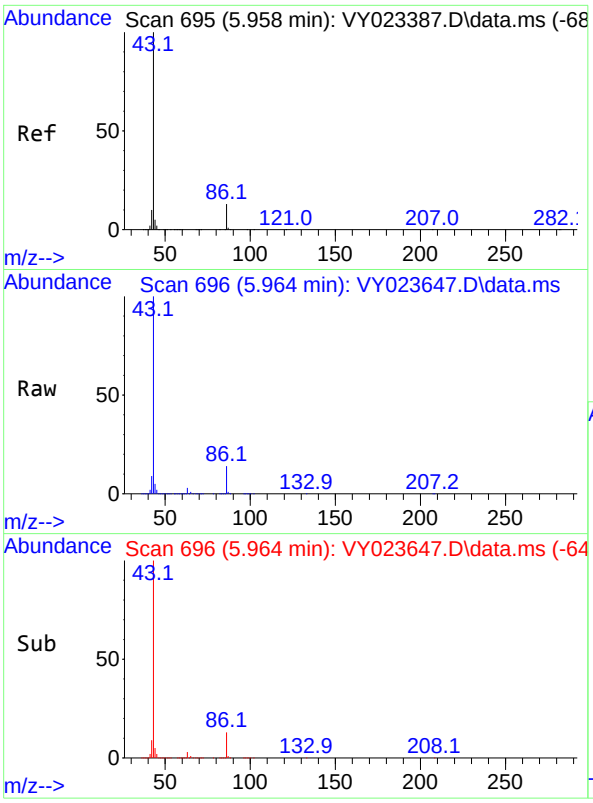


#22
Diisopropyl ether
Concen: 56.552 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 45 Resp: 675371

Ion	Ratio	Lower	Upper
45	100		
43	54.4	45.6	68.4
87	36.6	28.1	42.1
59	13.1	10.2	15.2

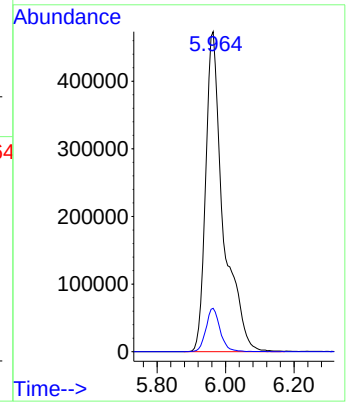




#23
Vinyl Acetate
Concen: 261.811 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 43 Resp: 169238

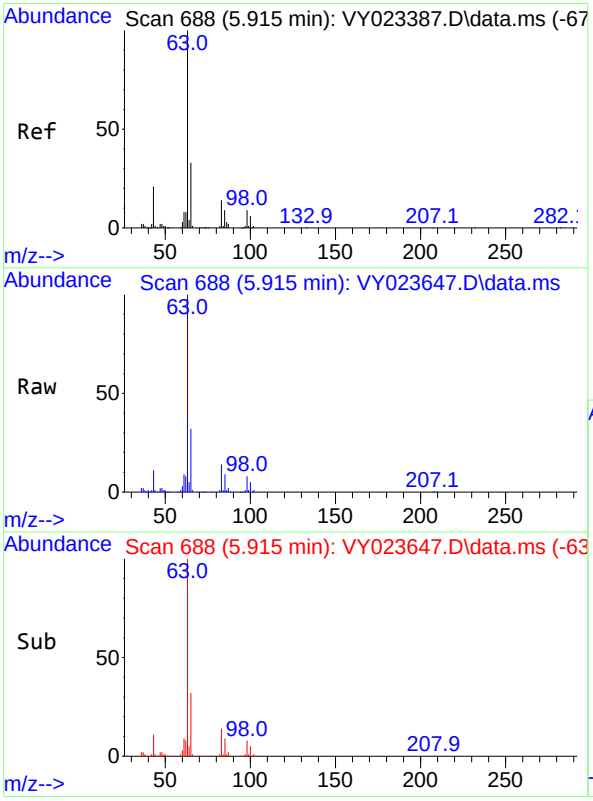
Ion	Ratio	Lower	Upper
43	100		
86	13.5	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

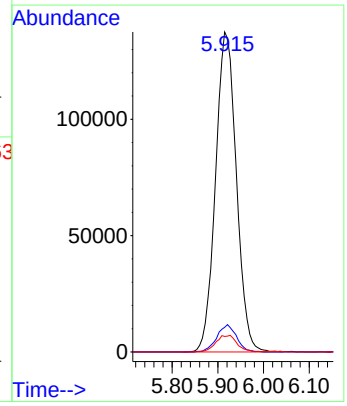
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

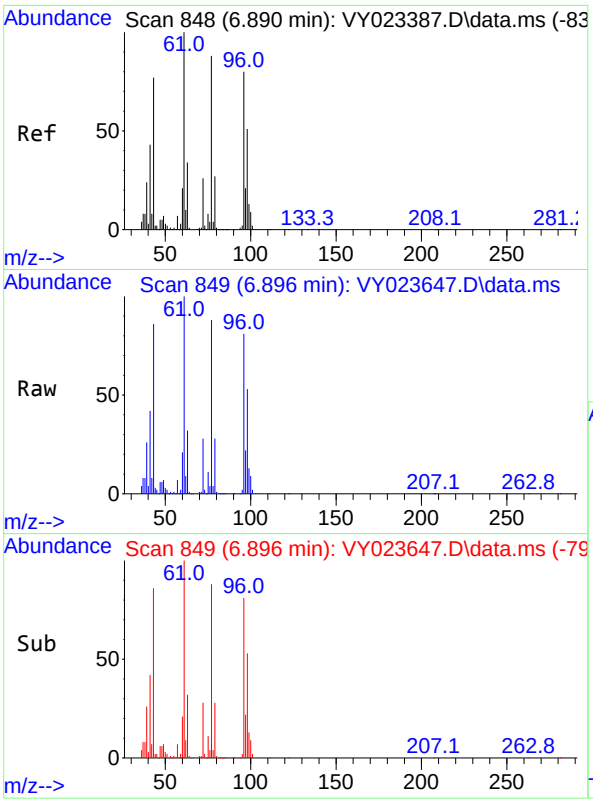


#24
1,1-Dichloroethane
Concen: 55.093 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 63 Resp: 435826

Ion	Ratio	Lower	Upper
63	100		
98	7.7	4.3	13.1
100	4.8	2.8	8.4





#25
2-Butanone
Concen: 264.561 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

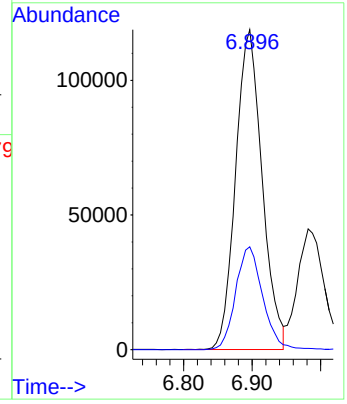
Tgt Ion: 43 Resp: 31932

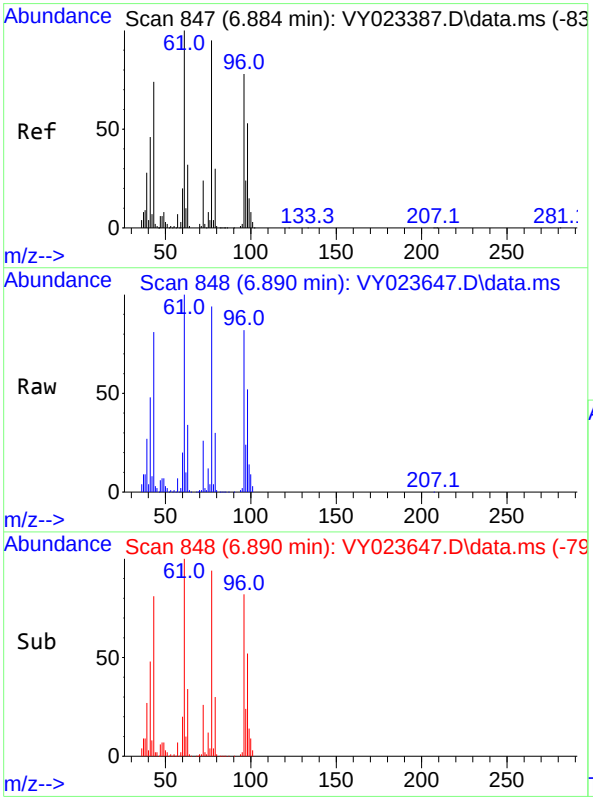
Ion	Ratio	Lower	Upper
43	100		
72	32.2	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

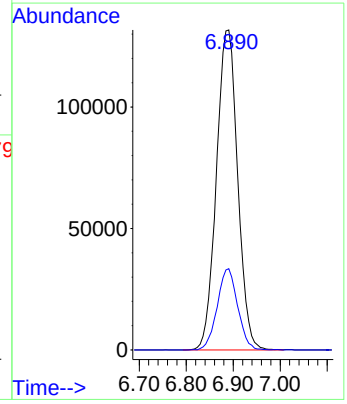


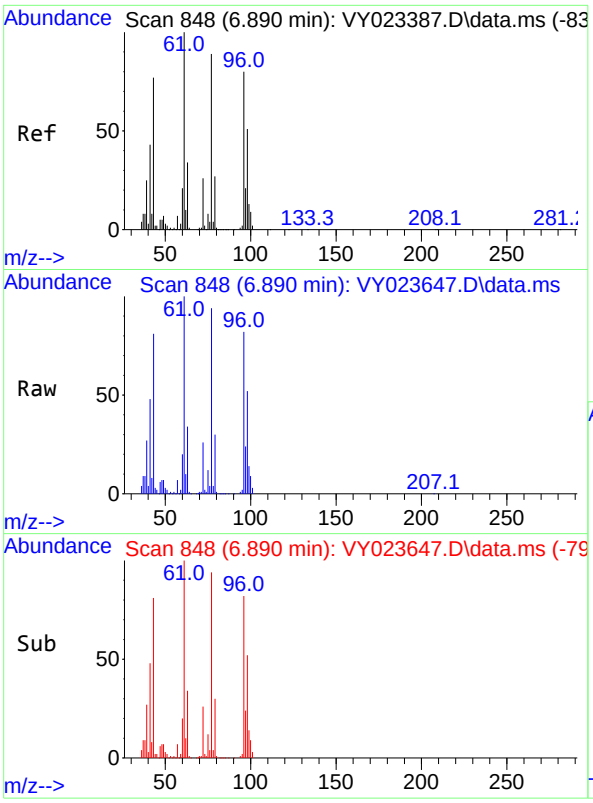


#26
2,2-Dichloropropane
Concen: 57.071 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 77 Resp: 414266

Ion	Ratio	Lower	Upper
77	100		
97	24.4	12.1	36.3





#27
cis-1,2-Dichloroethene
Concen: 55.888 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

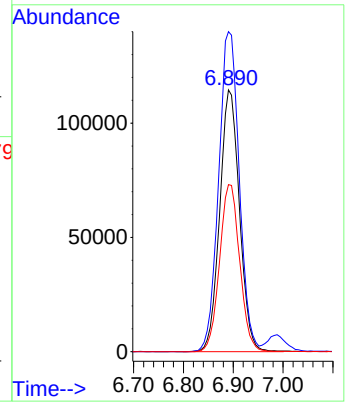
Tgt Ion: 96 Resp: 31486

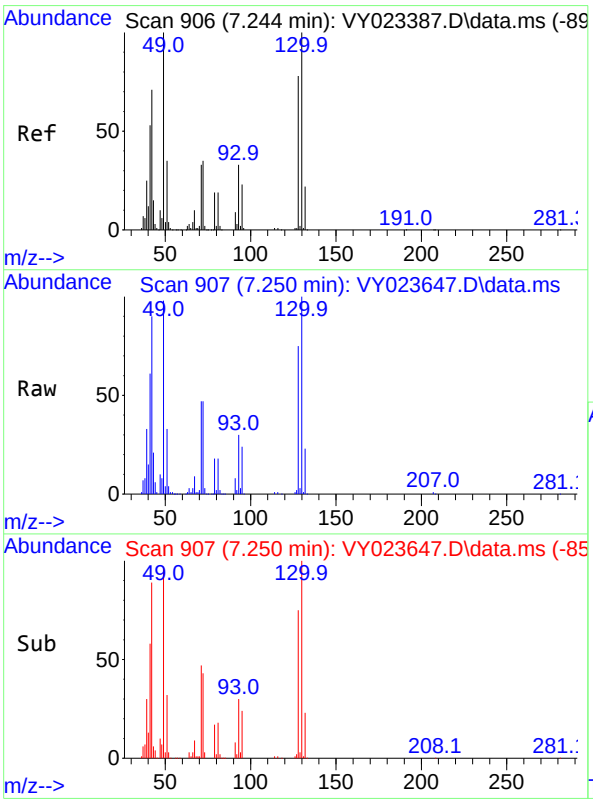
Ion	Ratio	Lower	Upper
96	100		
61	127.5	0.0	258.2
98	65.1	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

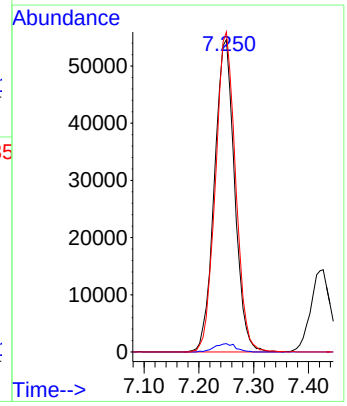


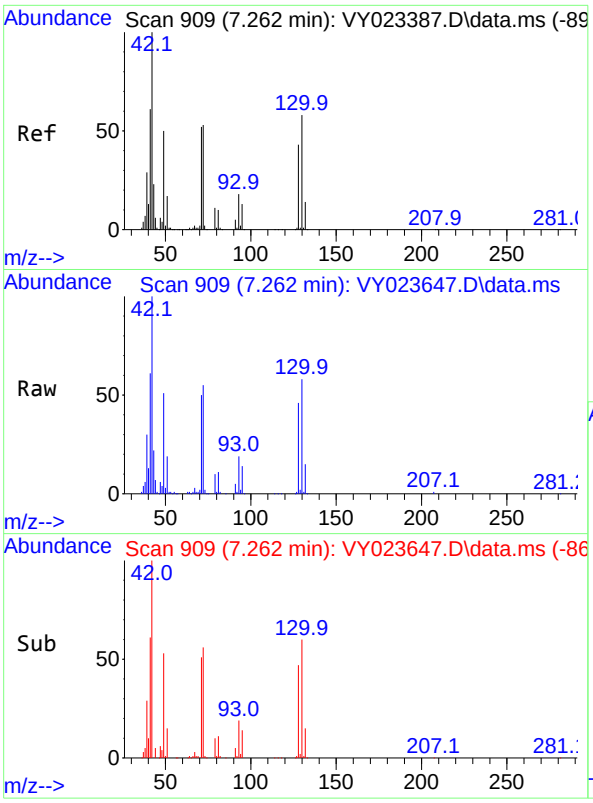


#28
Bromochloromethane
Concen: 47.217 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 49 Resp: 139440

Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	5.6
130	102.2	81.9	122.9

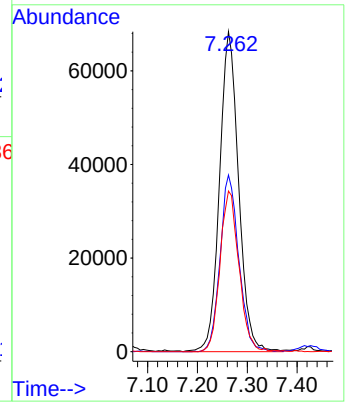




#29
Tetrahydrofuran
Concen: 265.445 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 42 Resp: 18168(

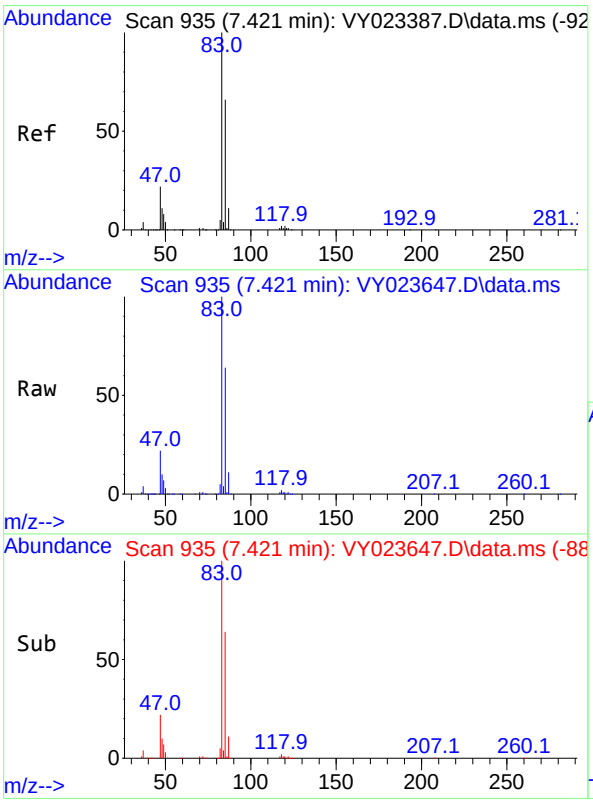
Ion	Ratio	Lower	Upper
42	100		
72	54.3	43.0	64.6
71	50.0	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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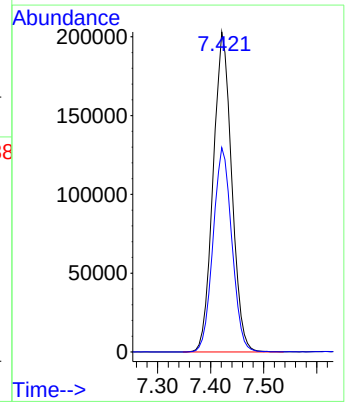
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

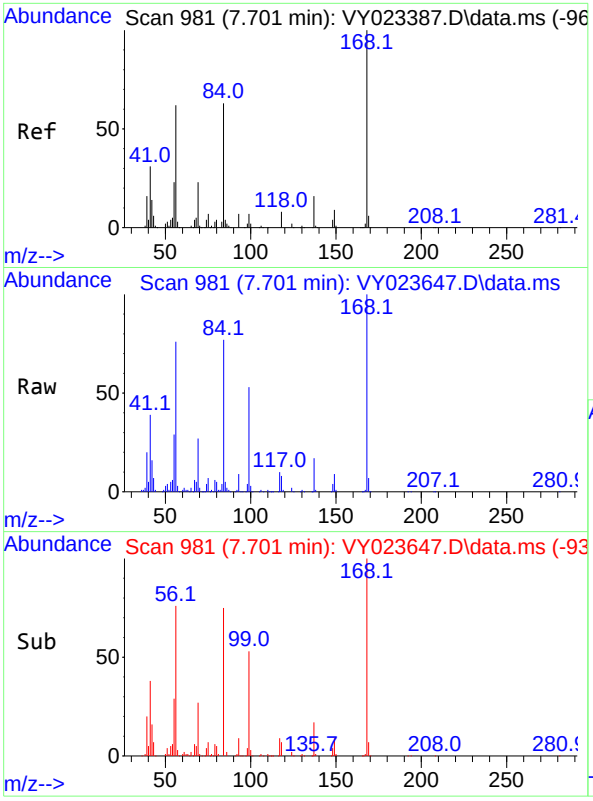


#30
Chloroform
Concen: 56.851 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 83 Resp: 494121

Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.5	78.7





#31
Cyclohexane
Concen: 49.679 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

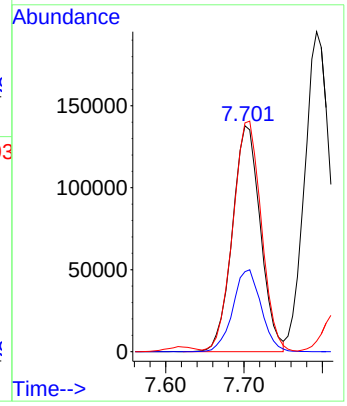
Tgt Ion: 56 Resp: 34320

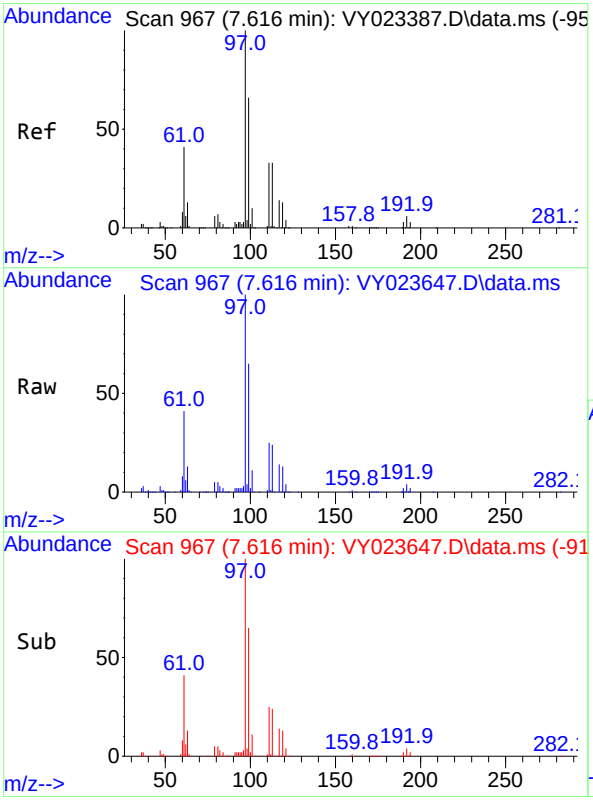
Ion	Ratio	Lower	Upper
56	100		
69	35.4	30.0	45.0
84	99.2	81.2	121.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

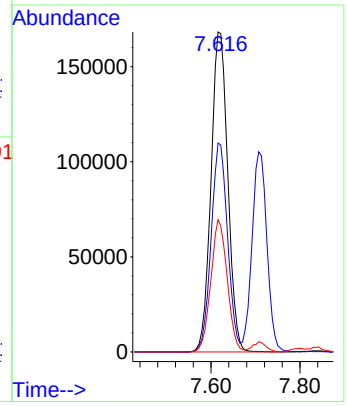


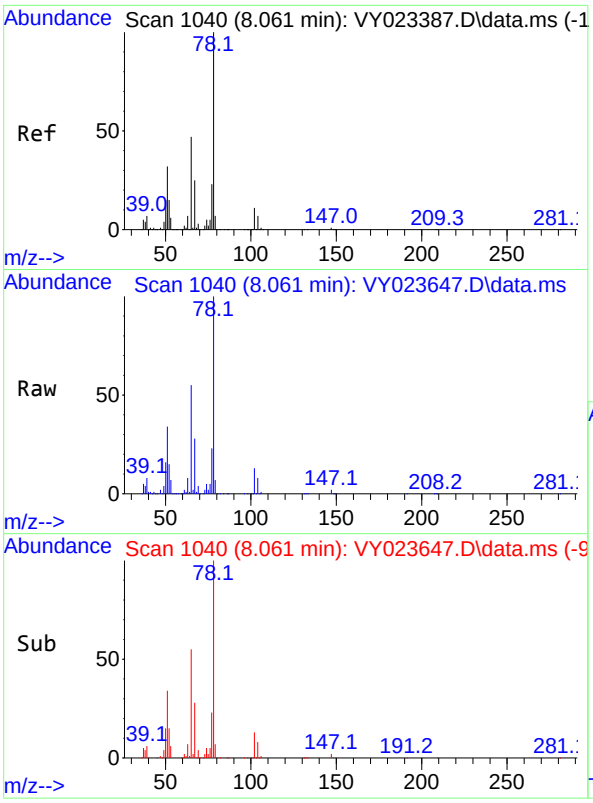


#32
1,1,1-Trichloroethane
Concen: 55.882 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 97 Resp: 441382

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.4	77.2
61	40.4	31.9	47.9

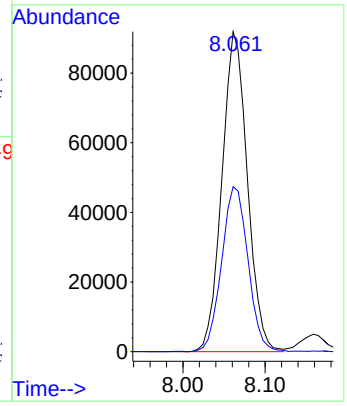




#33
1,2-Dichloroethane-d4
Concen: 47.530 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 65 Resp: 19738

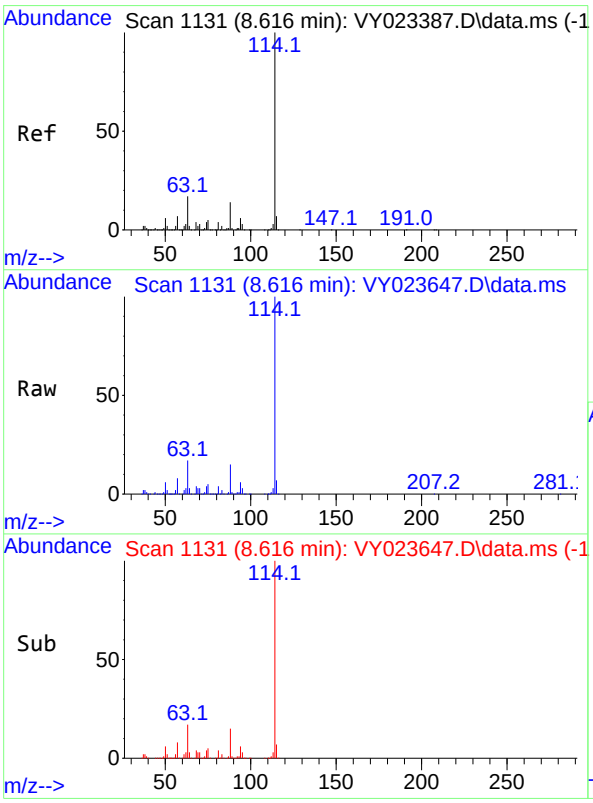
Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

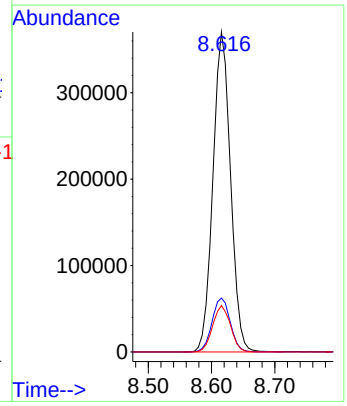
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

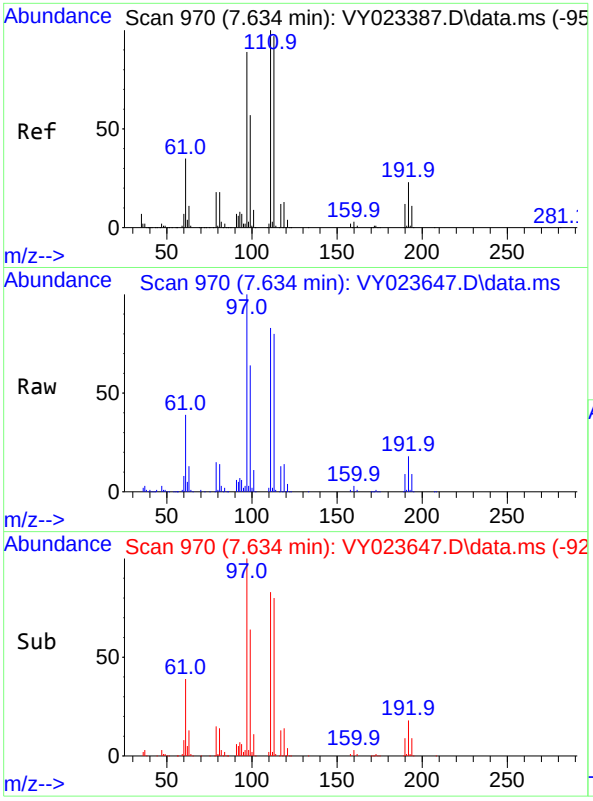


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:114 Resp: 715866

Ion	Ratio	Lower	Upper
114	100		
63	16.9	0.0	34.2
88	14.5	0.0	28.4

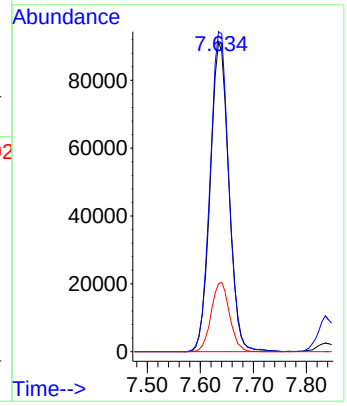




#35
Dibromofluoromethane
Concen: 50.659 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:113 Resp: 22283

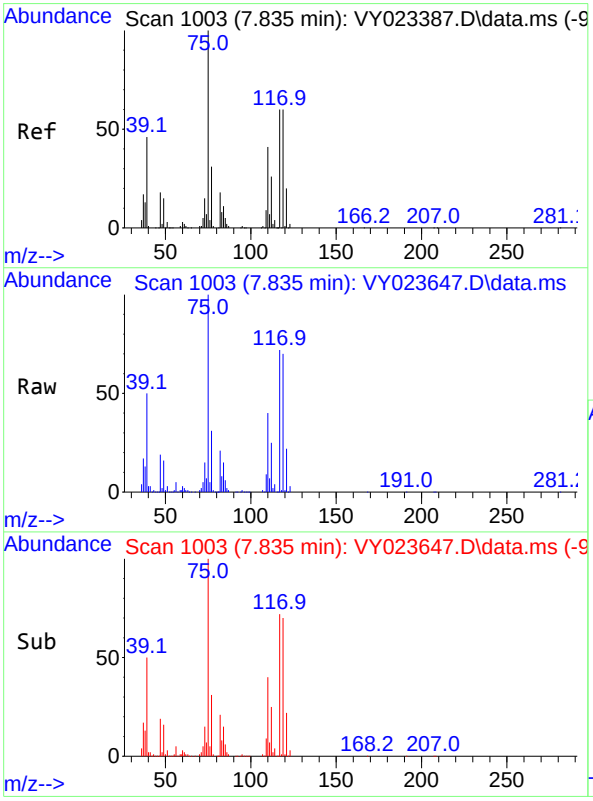
Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.8	122.6
192	22.0	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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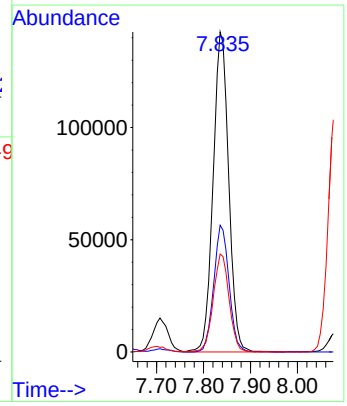
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

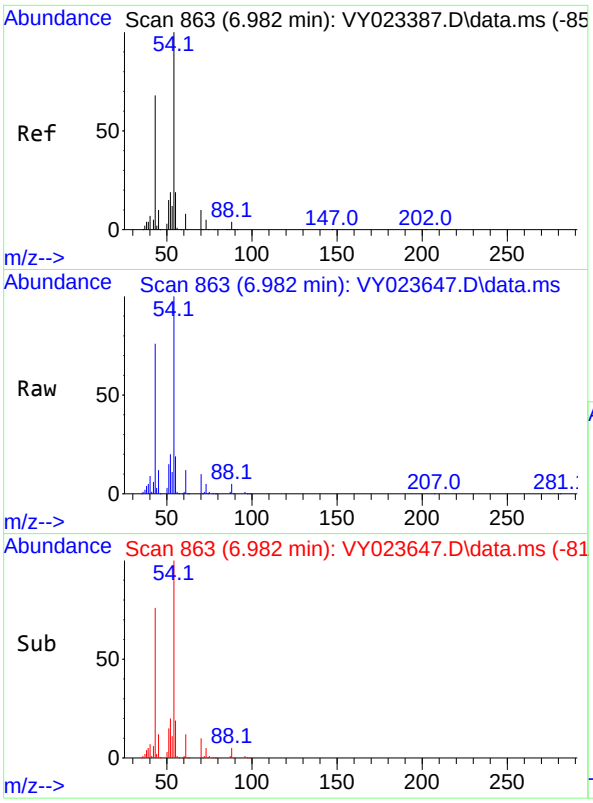


#36
1,1-Dichloropropene
Concen: 56.323 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 75 Resp: 327988

Ion	Ratio	Lower	Upper
75	100		
110	38.8	19.9	59.7
77	30.9	25.0	37.6





#37
Ethyl Acetate
Concen: 52.518 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

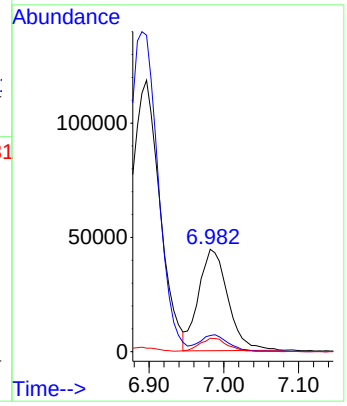
Tgt Ion: 43 Resp: 12116

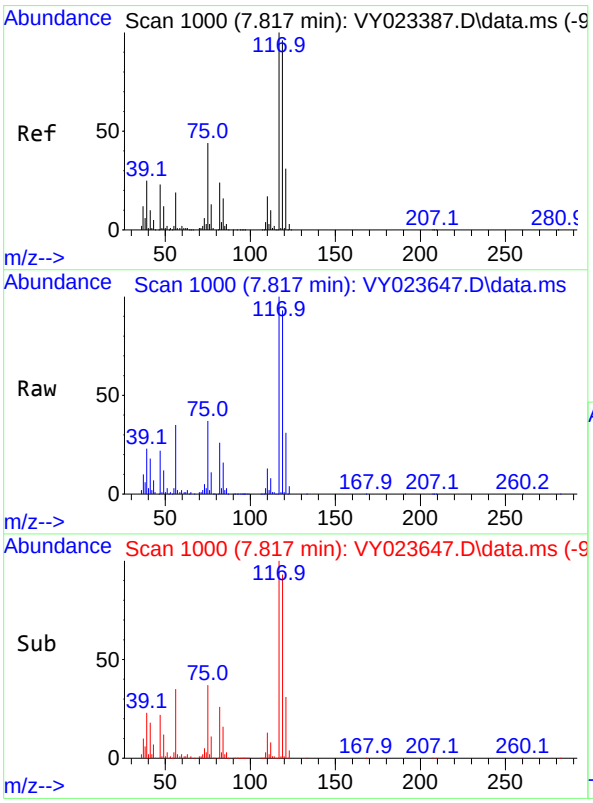
Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.8	17.8
70	12.9	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

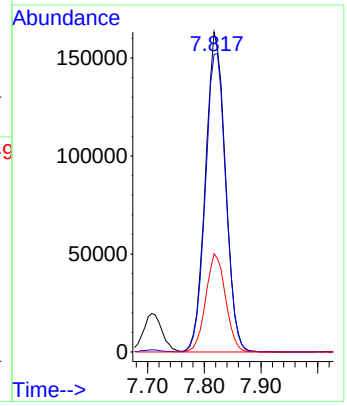


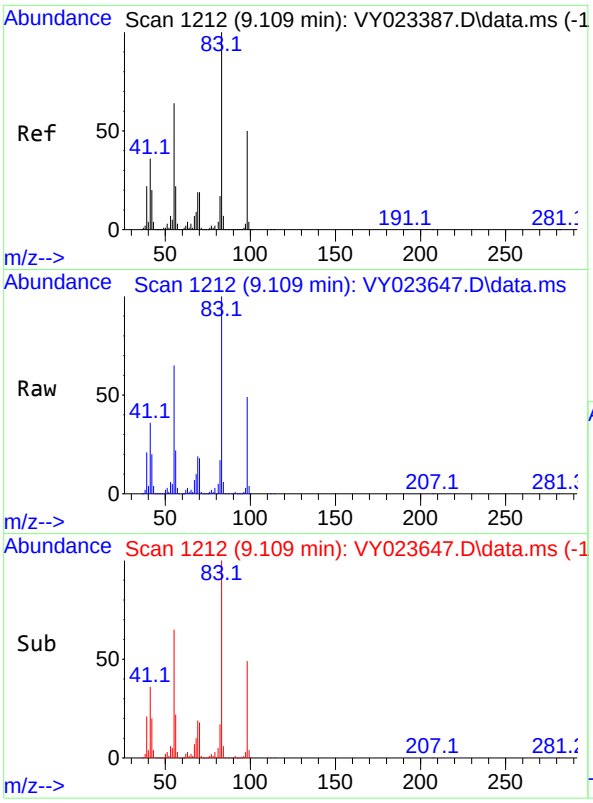


#38
Carbon Tetrachloride
Concen: 56.549 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:117 Resp: 399300

Ion	Ratio	Lower	Upper
117	100		
119	93.0	76.8	115.2
121	30.7	24.5	36.7





#39
Methylcyclohexane
Concen: 54.255 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

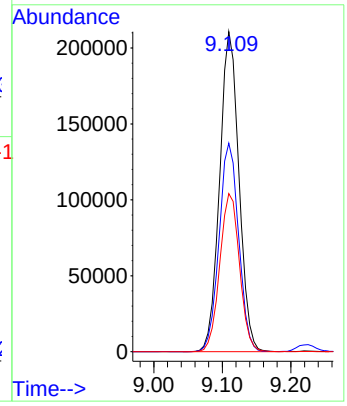
Tgt Ion: 83 Resp: 41136

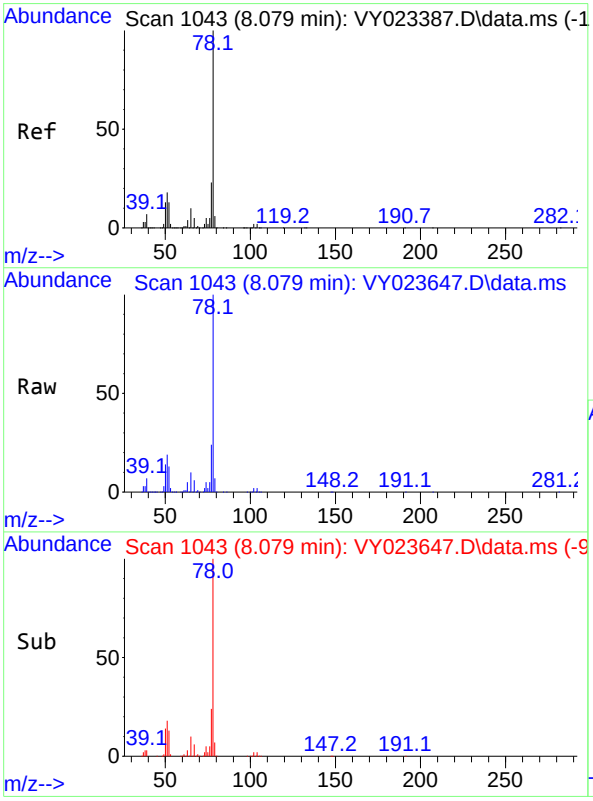
Ion	Ratio	Lower	Upper
83	100		
55	65.2	51.4	77.2
98	49.4	40.4	60.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

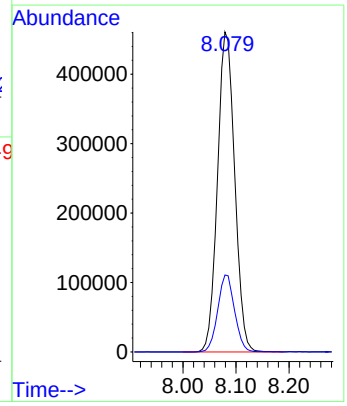


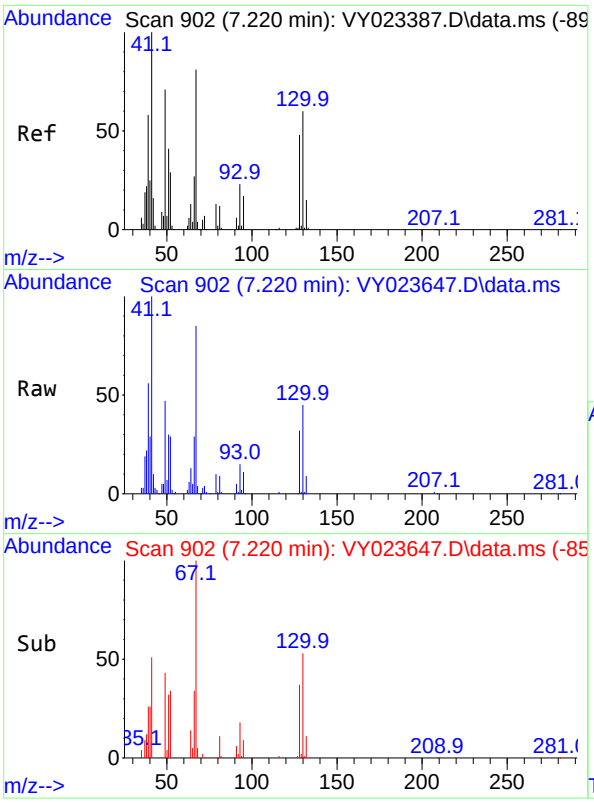


#40
Benzene
Concen: 56.320 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 78 Resp: 1038669

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.3	27.5

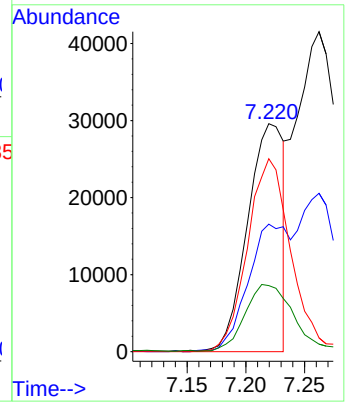




#41
Methacrylonitrile
Concen: 50.909 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 41 Resp: 6352

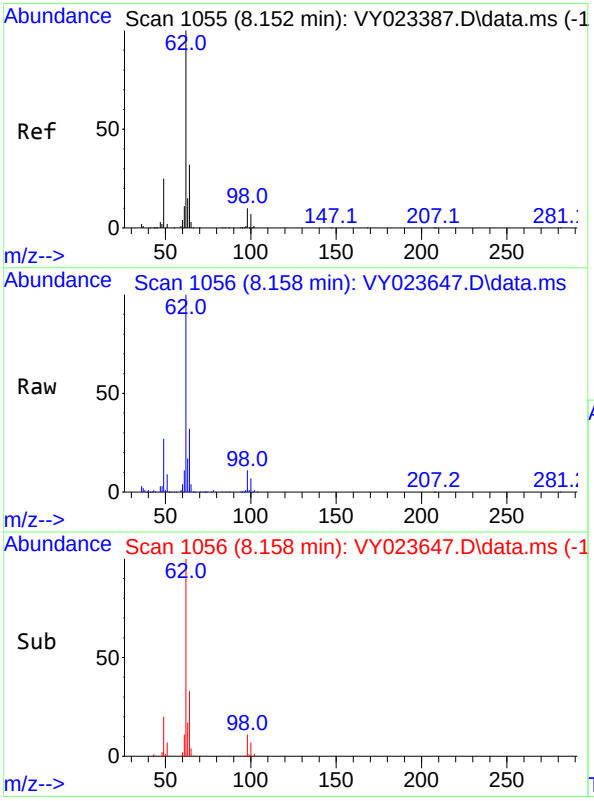
Ion	Ratio	Lower	Upper
41	100		
39	64.2	52.2	78.4
67	102.1	74.9	112.3
52	39.5	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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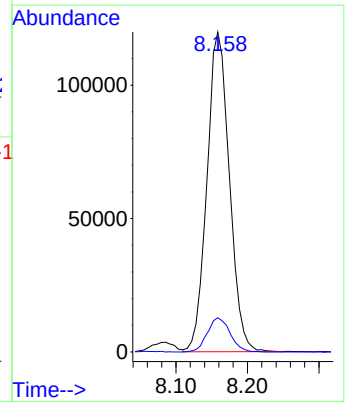
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

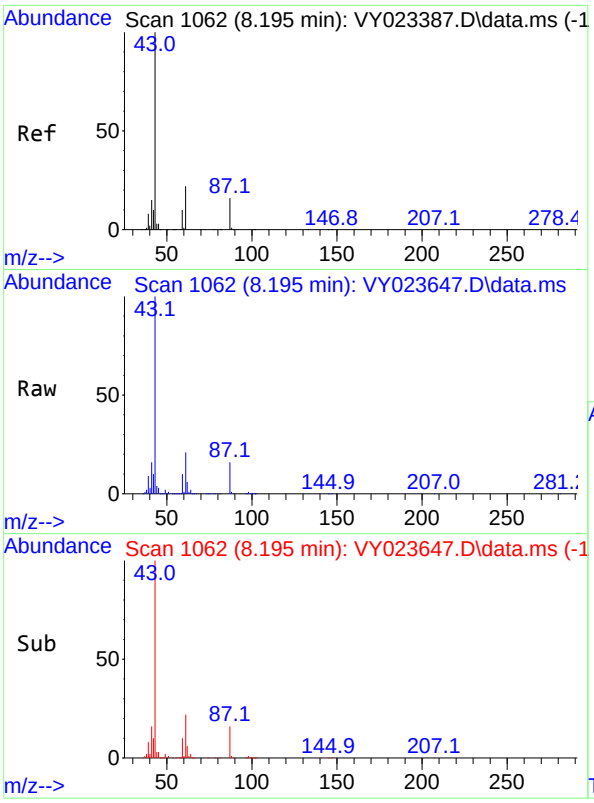


#42
1,2-Dichloroethane
Concen: 54.890 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 62 Resp: 261072

Ion	Ratio	Lower	Upper
62	100		
98	10.9	0.0	21.6

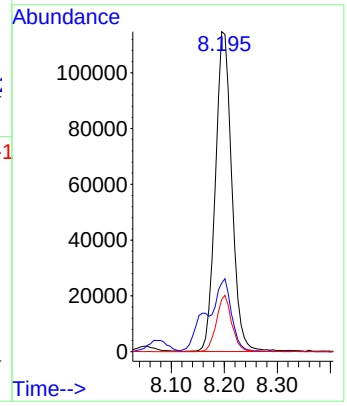




#43
Isopropyl Acetate
Concen: 53.541 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 43 Resp: 24630

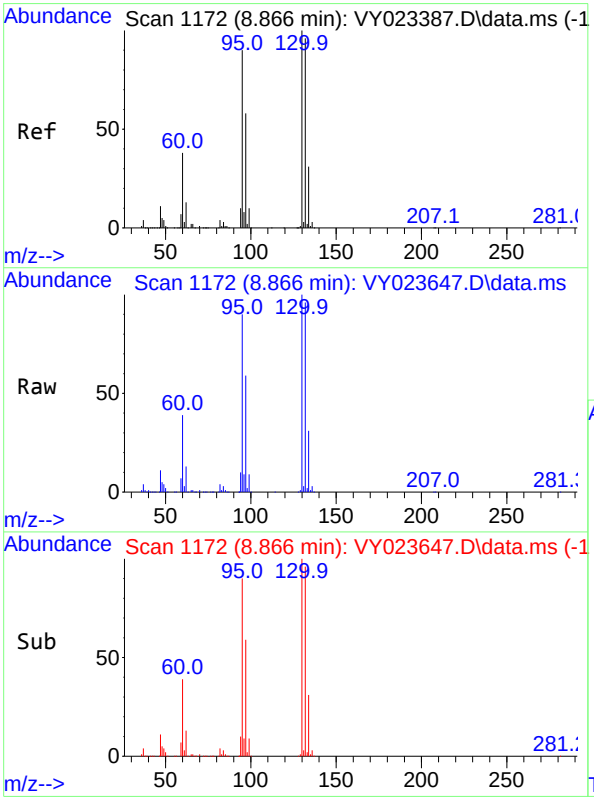
Ion	Ratio	Lower	Upper
43	100		
61	22.9	18.1	27.1
87	16.5	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

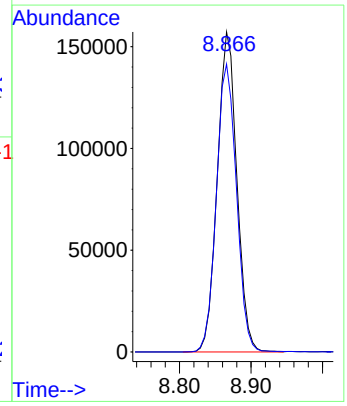
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

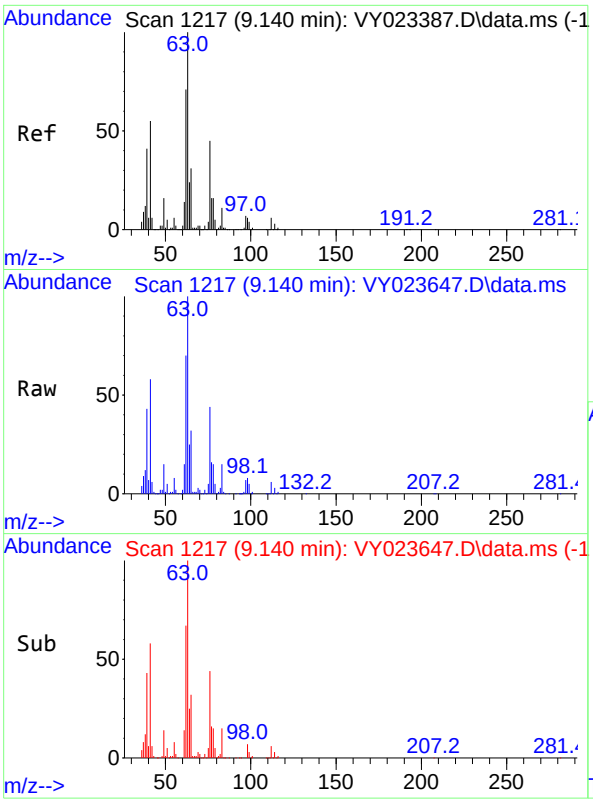


#44
Trichloroethene
Concen: 55.399 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:130 Resp: 299034

Ion	Ratio	Lower	Upper
130	100		
95	89.9	0.0	180.6

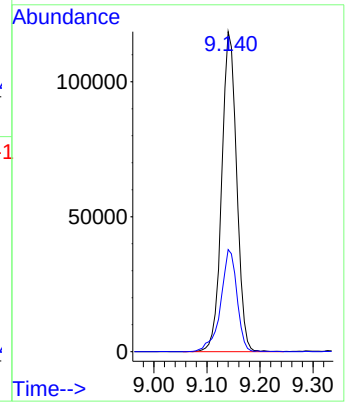




#45
1,2-Dichloropropane
Concen: 57.032 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 63 Resp: 23231

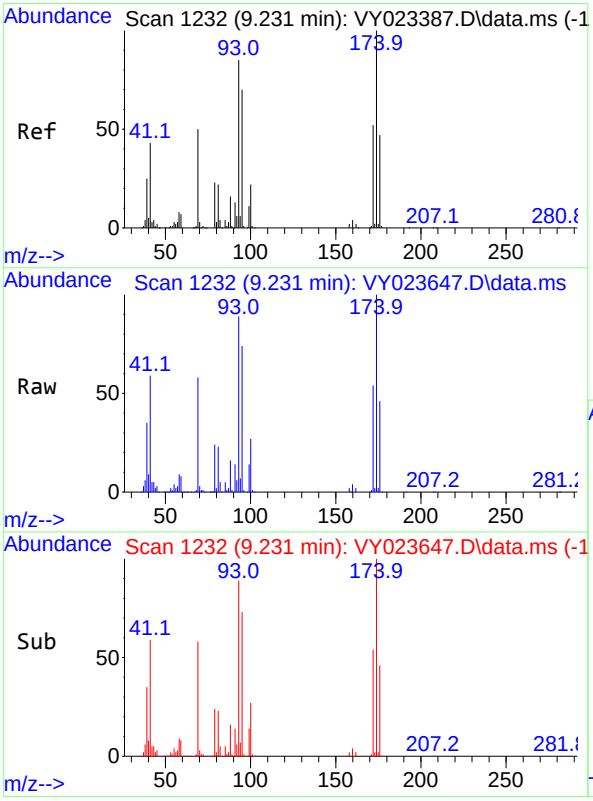
Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

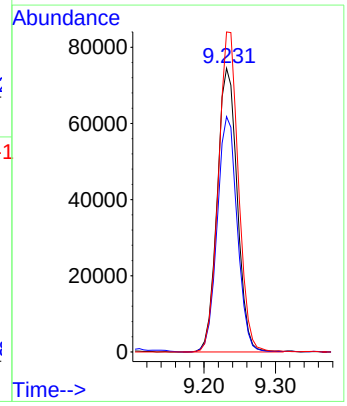
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

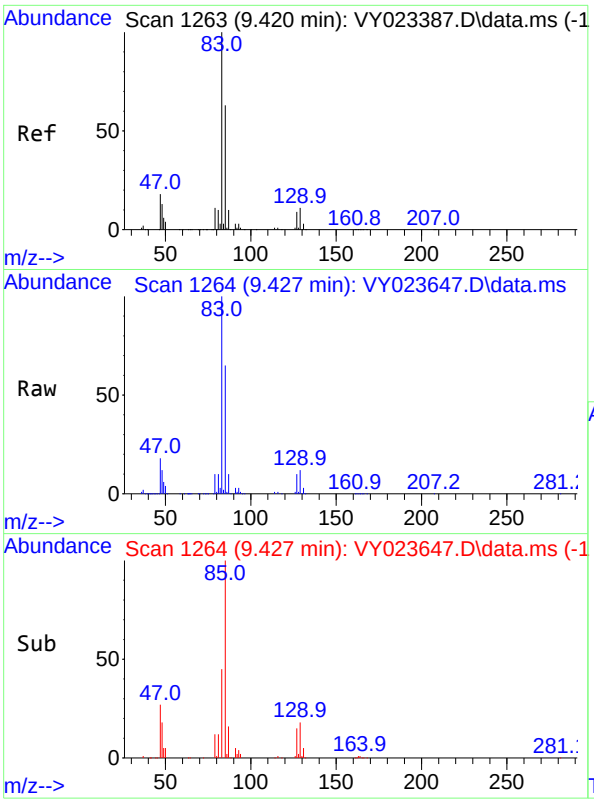


#46
Dibromomethane
Concen: 56.159 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 93 Resp: 144652

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.4	98.0
174	113.0	92.9	139.3

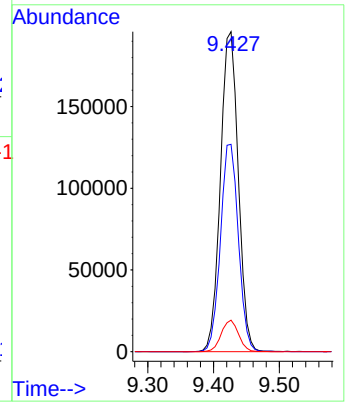




#47
Bromodichloromethane
Concen: 57.004 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 83 Resp: 36979

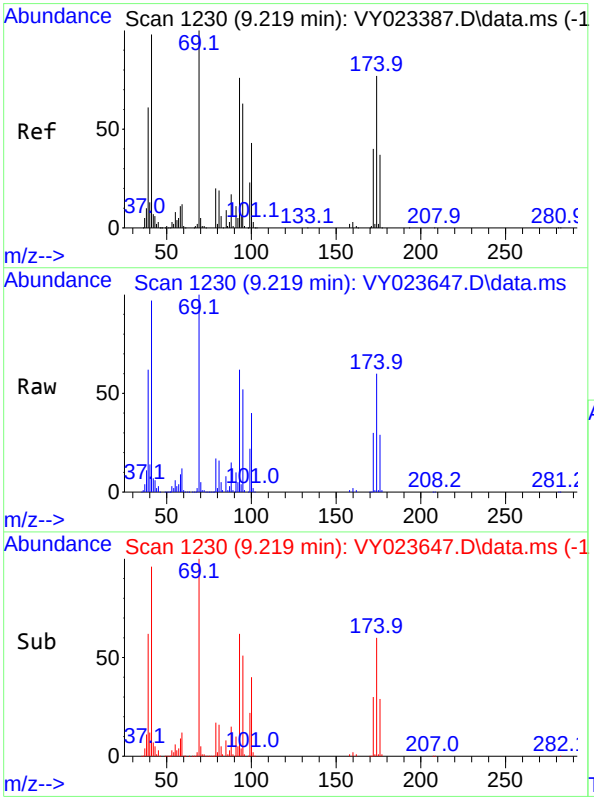
Ion	Ratio	Lower	Upper
83	100		
85	64.8	50.8	76.2
127	9.8	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

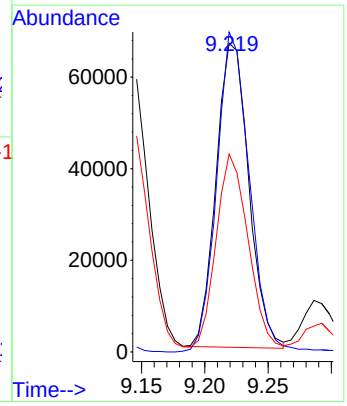
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

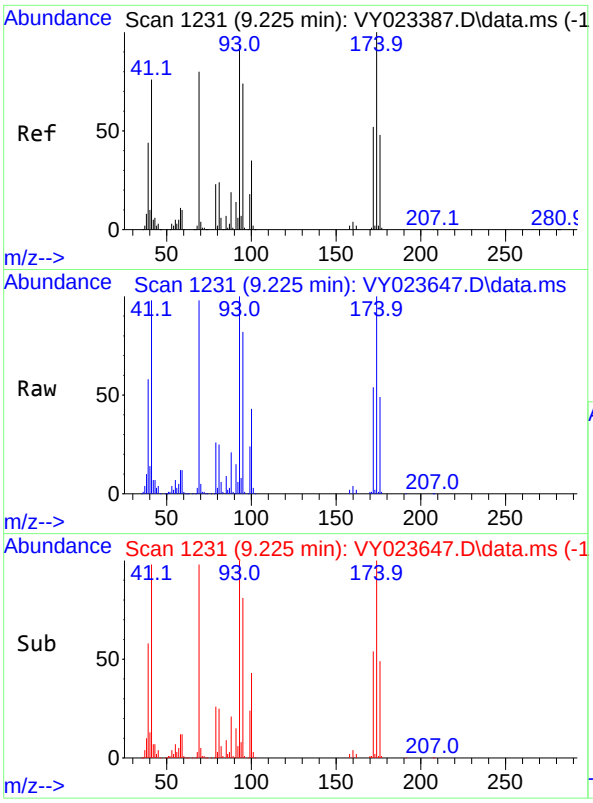


#48
Methyl methacrylate
Concen: 55.250 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 41 Resp: 119406

Ion	Ratio	Lower	Upper
41	100		
69	105.3	81.0	121.4
39	62.0	48.2	72.4





#49
1,4-Dioxane
Concen: 1049.697 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

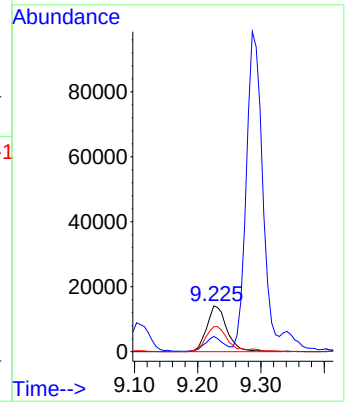
Tgt Ion: 88 Resp: 3134

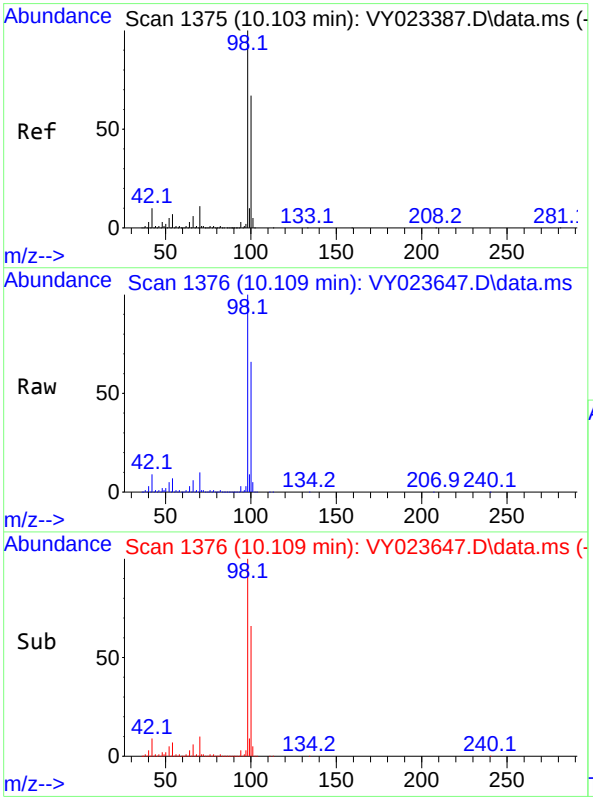
Ion	Ratio	Lower	Upper
88	100		
43	27.9	21.8	32.8
58	58.5	46.8	70.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

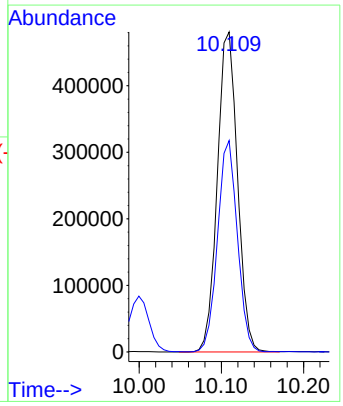


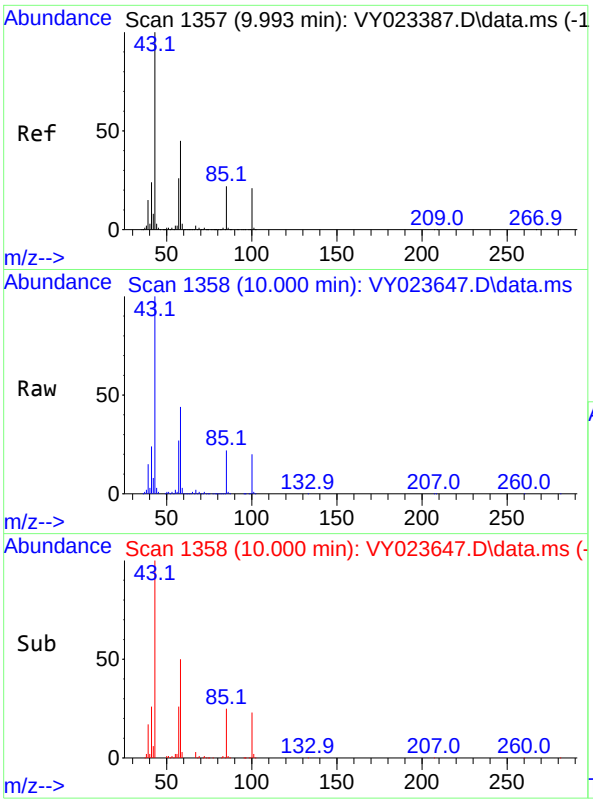


#50
Toluene-d8
Concen: 50.059 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 98 Resp: 820012

Ion	Ratio	Lower	Upper
98	100		
100	64.8	53.0	79.4

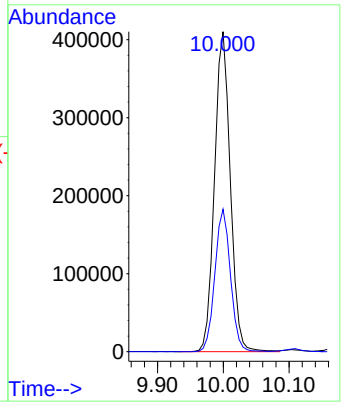




#51
4-Methyl-2-Pentanone
Concen: 287.521 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 43 Resp: 68338

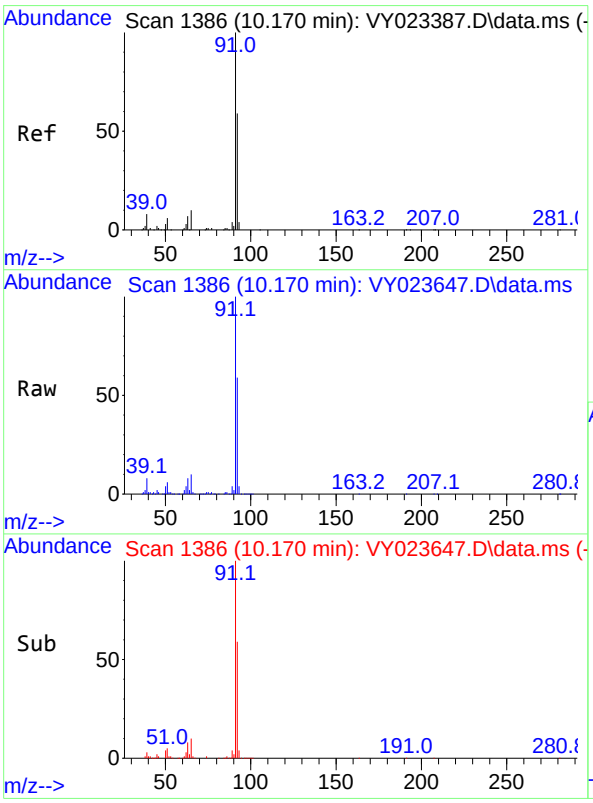
Ion	Ratio	Lower	Upper
43	100		
58	44.2	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

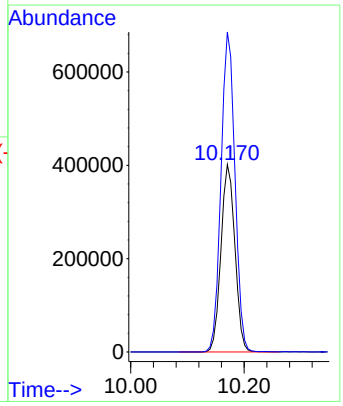
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

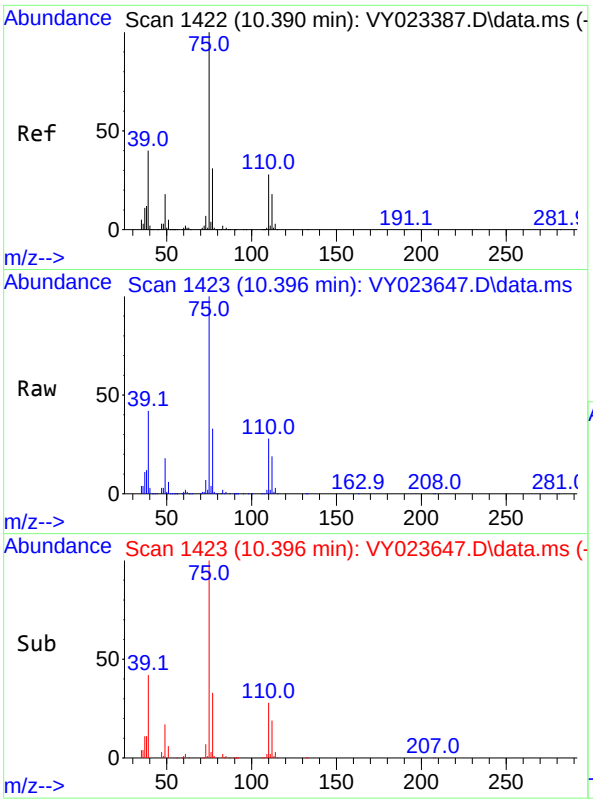


#52
Toluene
Concen: 57.279 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 92 Resp: 685867

Ion	Ratio	Lower	Upper
92	100		
91	170.6	136.4	204.6

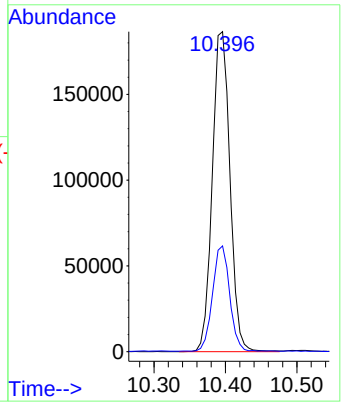




#53
t-1,3-Dichloropropene
Concen: 56.723 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 75 Resp: 31995

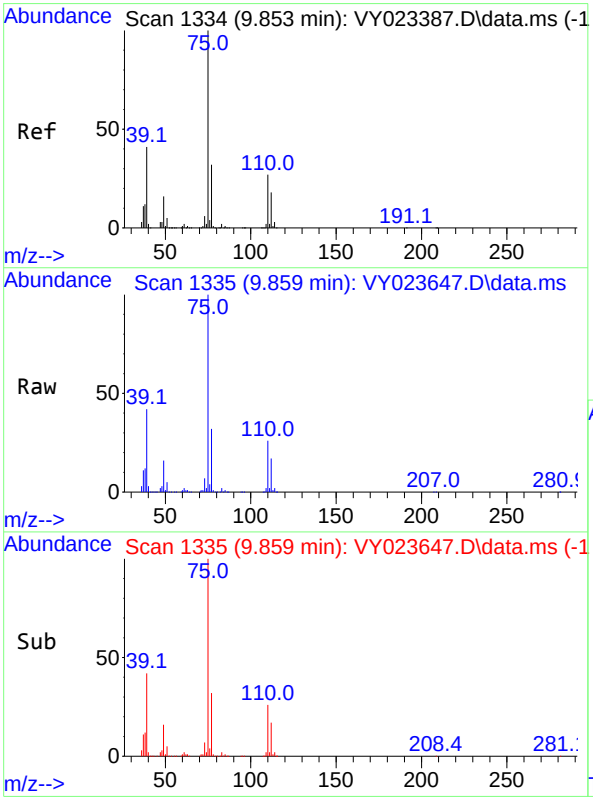
Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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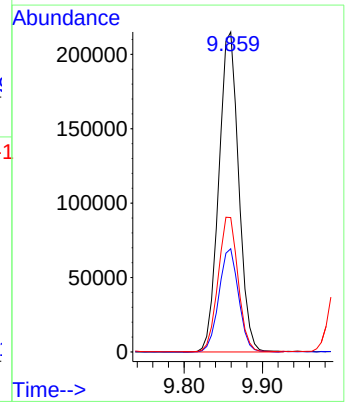
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

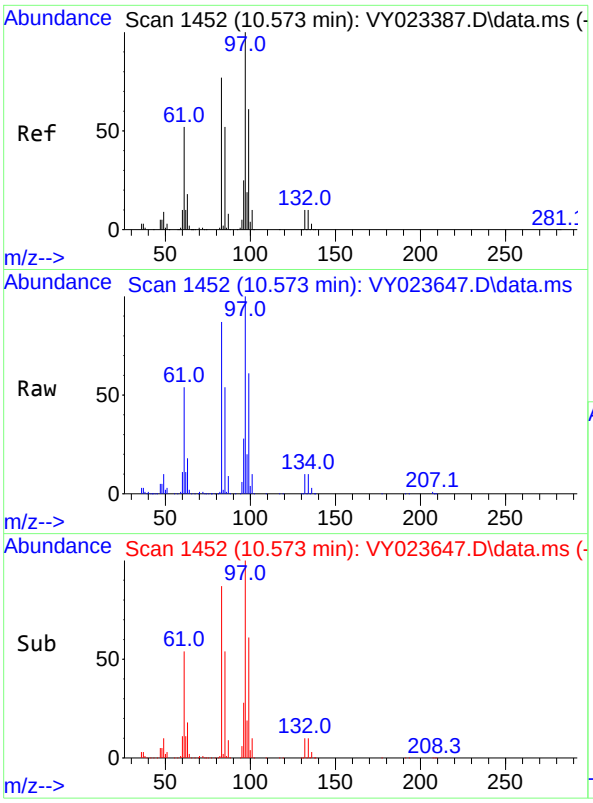


#54
cis-1,3-Dichloropropene
Concen: 56.902 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 75 Resp: 378814

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.4	38.0
39	41.9	32.8	49.2

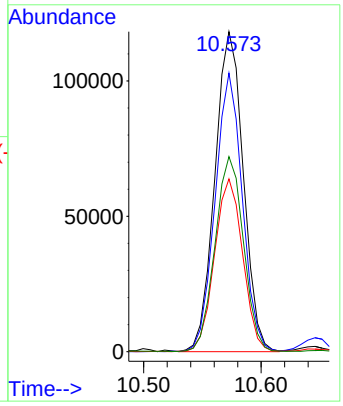




#55
1,1,2-Trichloroethane
Concen: 57.383 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 97 Resp: 19876

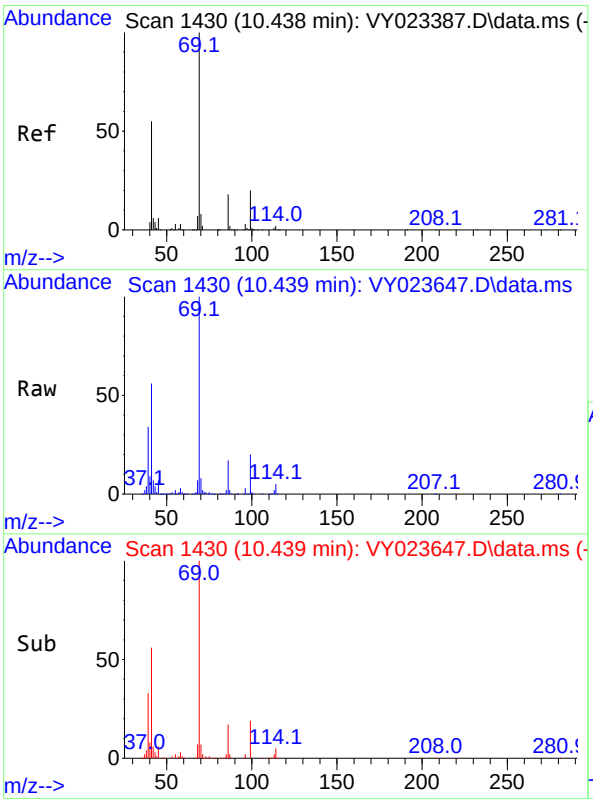
Ion	Ratio	Lower	Upper
97	100		
83	87.0	61.8	92.6
85	53.9	41.3	61.9
99	60.8	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

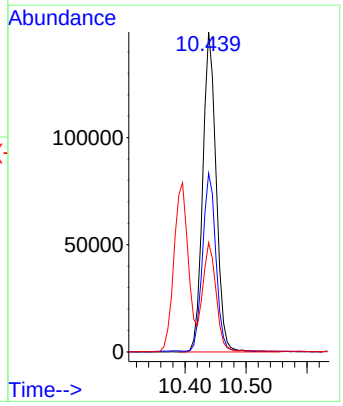
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

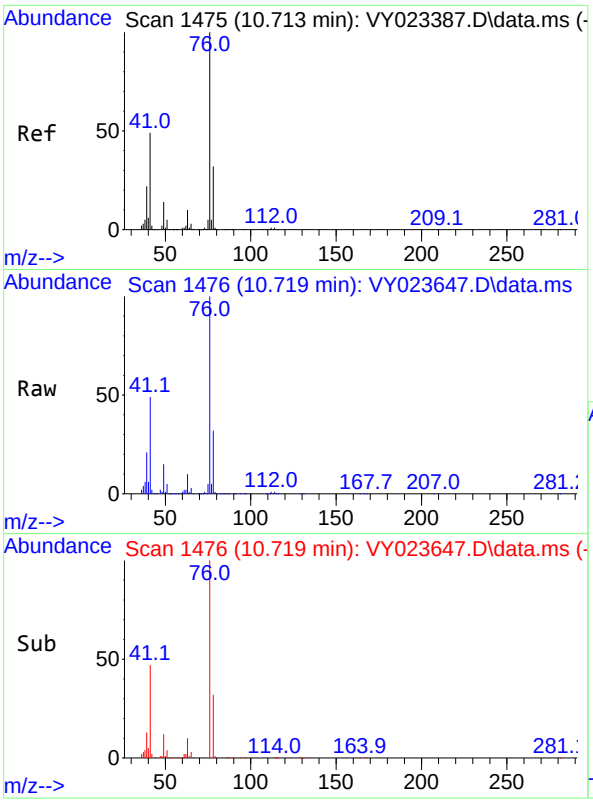


#56
Ethyl methacrylate
Concen: 57.270 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 69 Resp: 228821

Ion	Ratio	Lower	Upper
69	100		
41	55.4	44.6	67.0
39	33.0	27.0	40.4

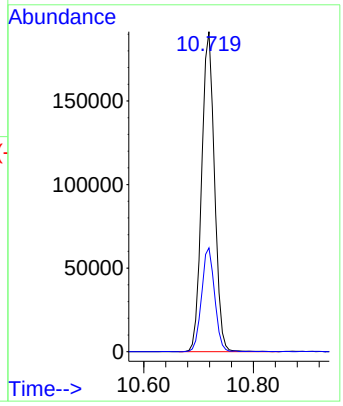




#57
1,3-Dichloropropane
Concen: 56.498 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 76 Resp: 31009

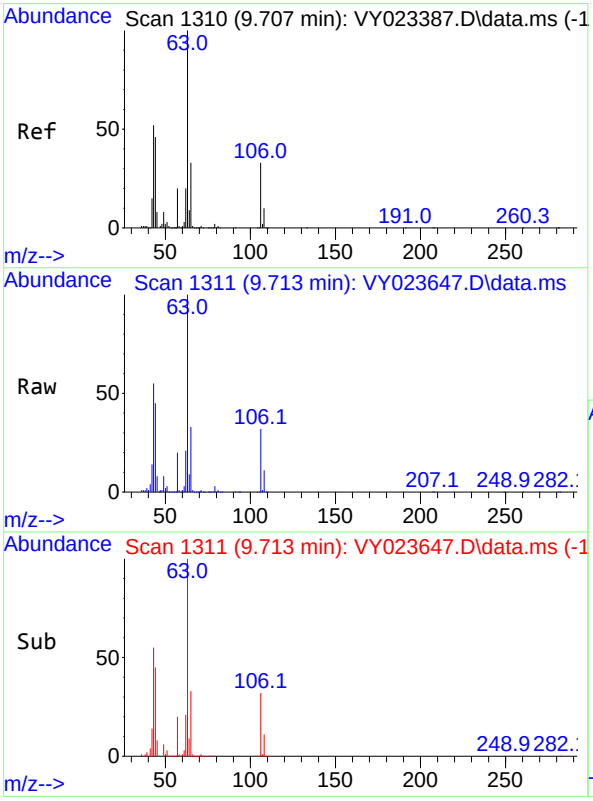
Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
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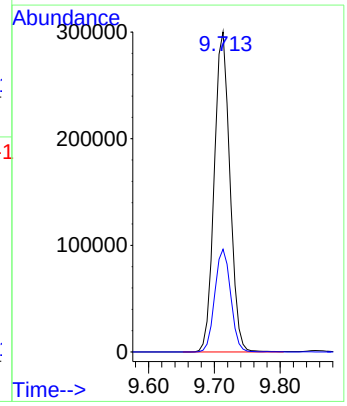
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

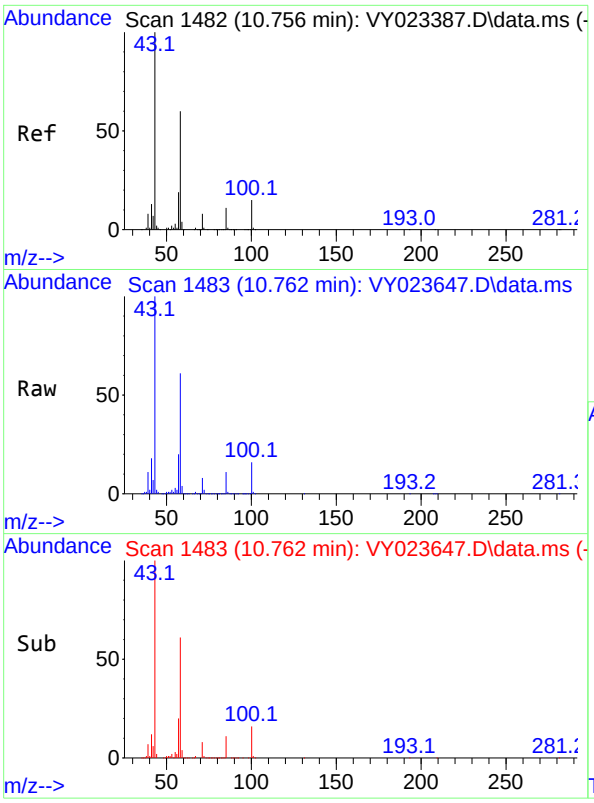


#58
2-Chloroethyl Vinyl ether
Concen: 278.254 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 63 Resp: 498036

Ion	Ratio	Lower	Upper
63	100		
106	32.5	26.6	39.8

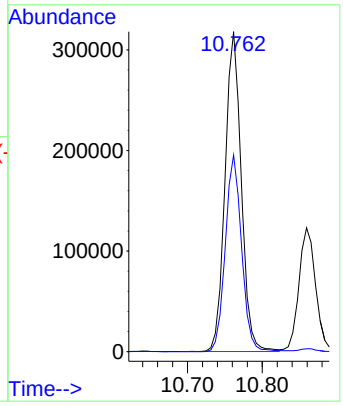




#59
2-Hexanone
Concen: 283.674 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 43 Resp: 48184

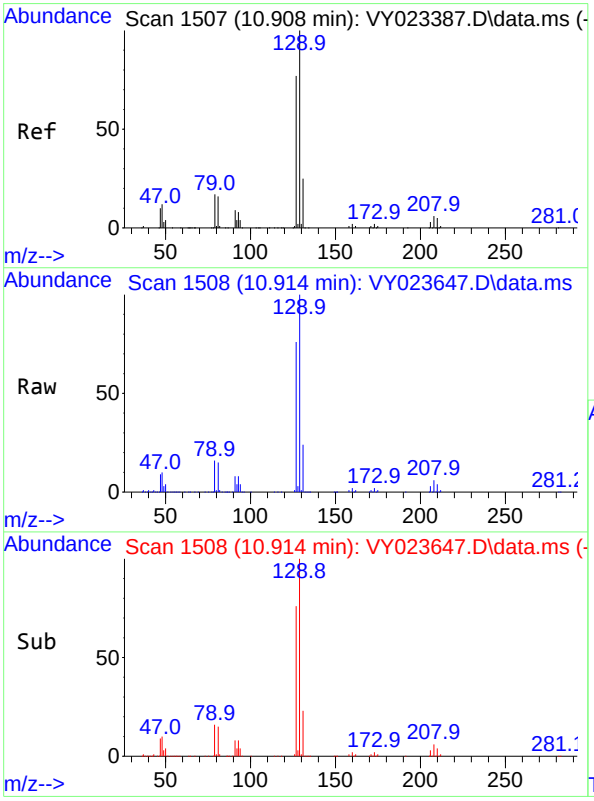
Ion	Ratio	Lower	Upper
43	100		
58	61.6	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

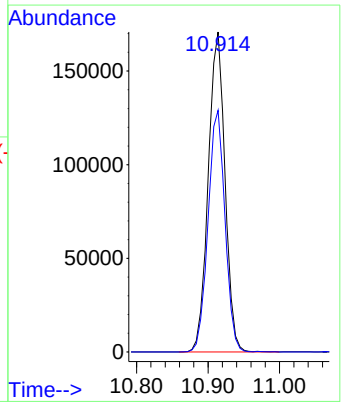
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

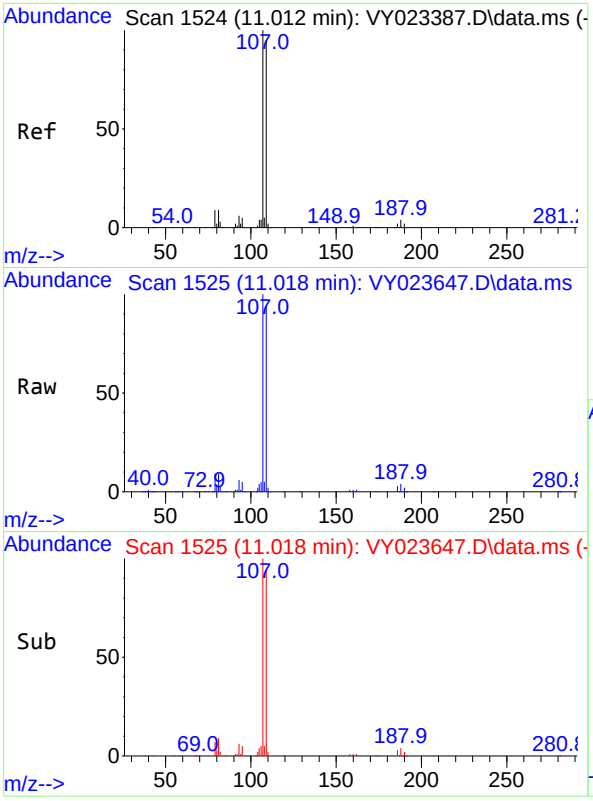


#60
Dibromochloromethane
Concen: 57.128 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:129 Resp: 277423

Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.6	115.7

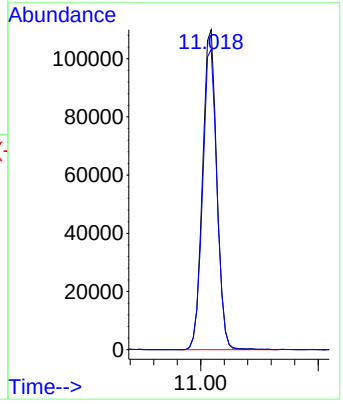




#61
1,2-Dibromoethane
Concen: 55.991 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:107 Resp: 18495

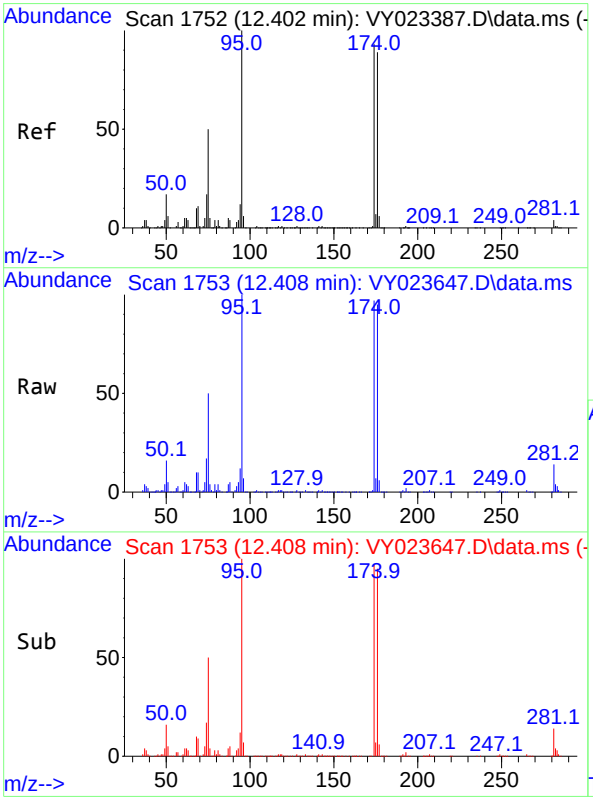
Ion	Ratio	Lower	Upper
107	100		
109	94.7	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

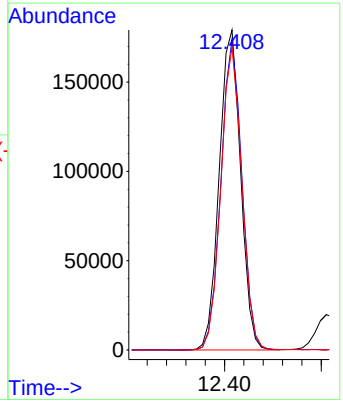
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

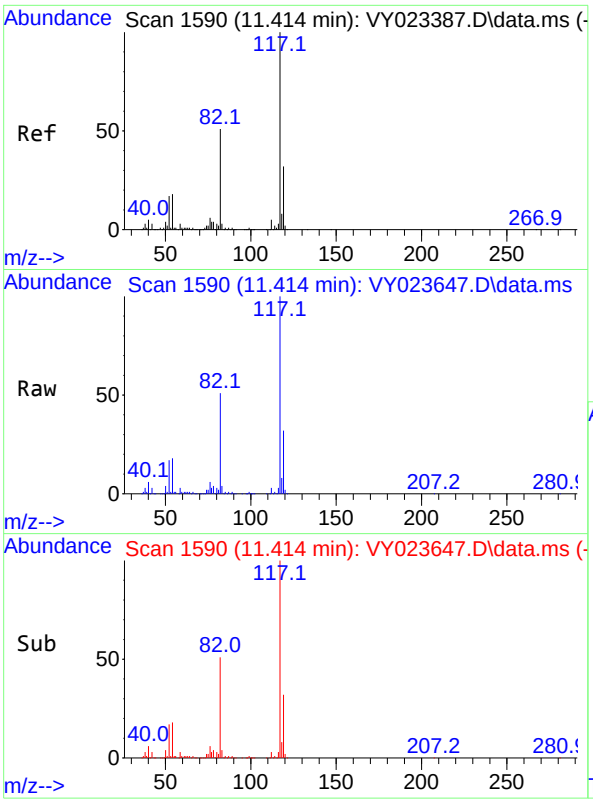


#62
4-Bromofluorobenzene
Concen: 50.673 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 95 Resp: 274049

Ion	Ratio	Lower	Upper
95	100		
174	95.1	0.0	192.8
176	93.0	0.0	187.6

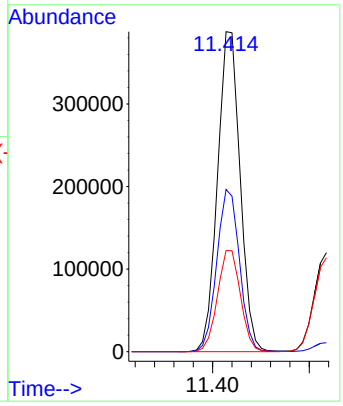




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:117 Resp: 62829

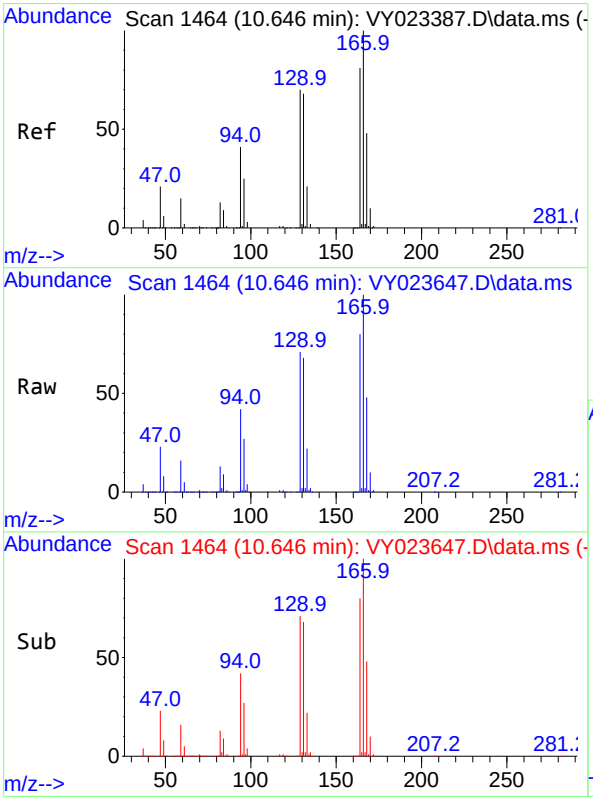
Ion	Ratio	Lower	Upper
117	100		
82	50.7	41.0	61.4
119	31.6	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

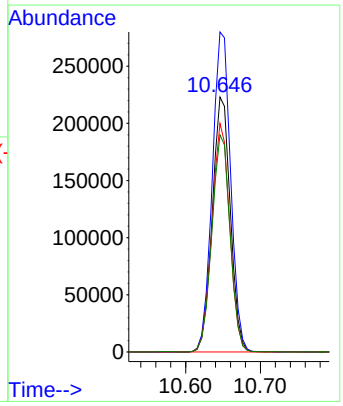
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

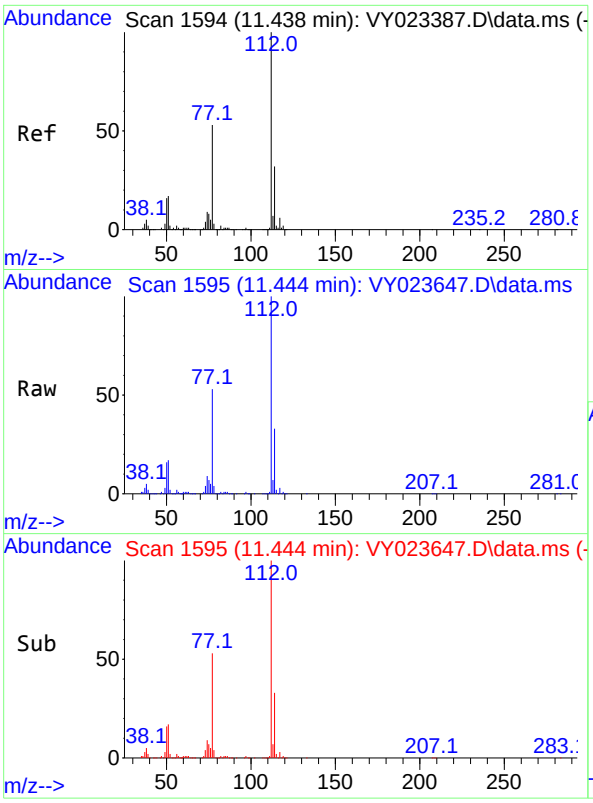


#64
Tetrachloroethene
Concen: 57.906 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:164 Resp: 375658

Ion	Ratio	Lower	Upper
164	100		
166	125.6	99.4	149.0
129	89.7	69.4	104.2
131	85.2	67.5	101.3

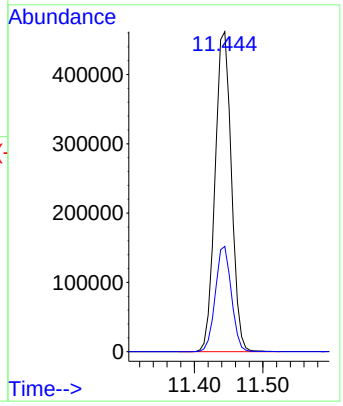




#65
Chlorobenzene
Concen: 55.709 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:112 Resp: 76126

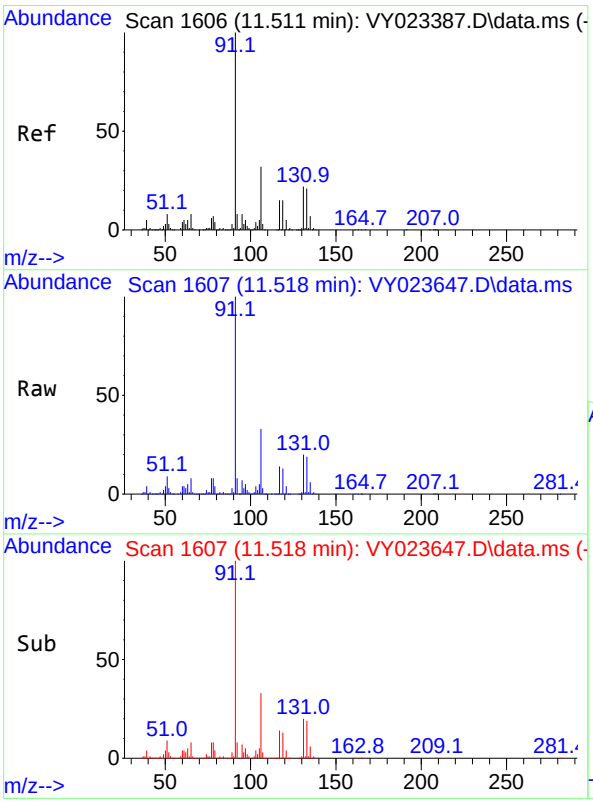
Ion	Ratio	Lower	Upper
112	100		
114	32.9	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

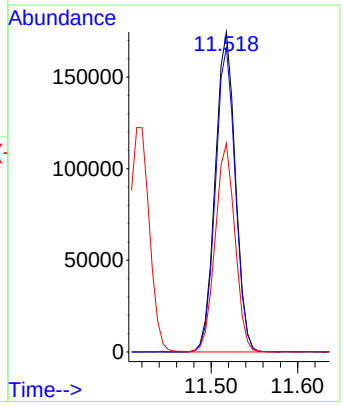
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

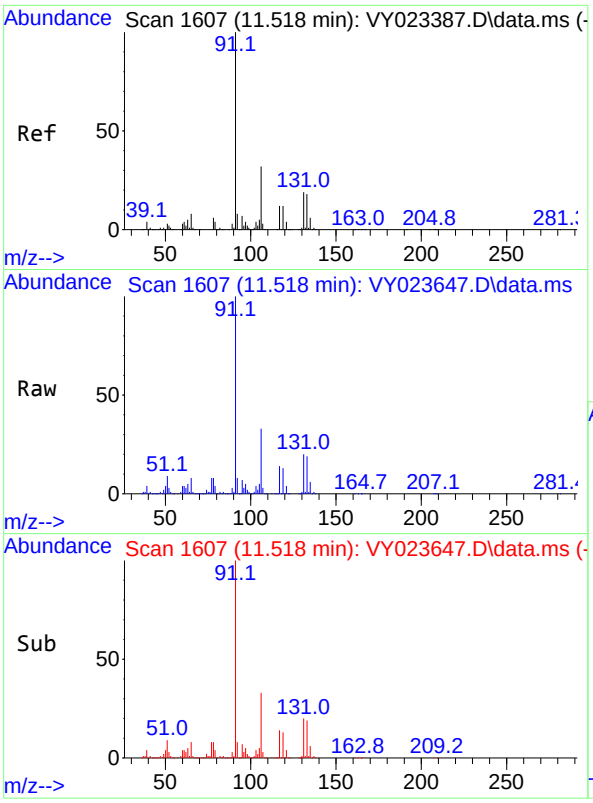


#66
1,1,1,2-Tetrachloroethane
Concen: 57.820 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:131 Resp: 281558

Ion	Ratio	Lower	Upper
131	100		
133	94.3	48.4	145.2
119	64.2	32.4	97.2

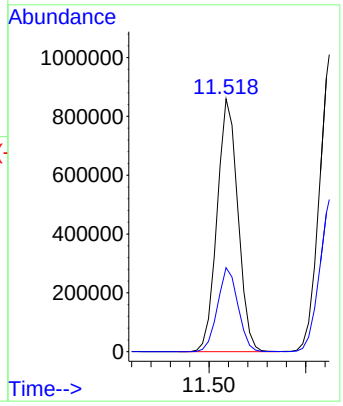




#67
Ethyl Benzene
Concen: 58.039 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 91 Resp: 128379

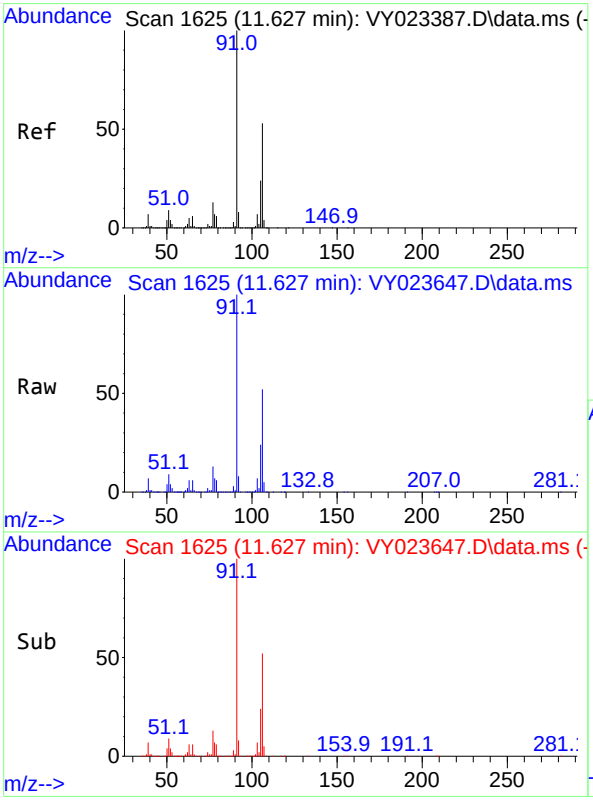
Ion	Ratio	Lower	Upper
91	100		
106	33.3	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

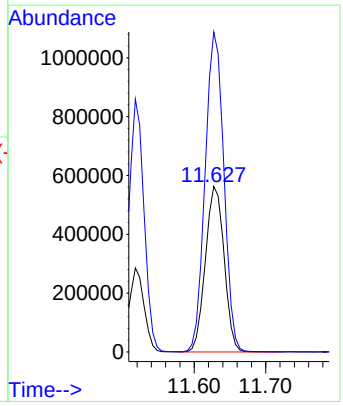
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

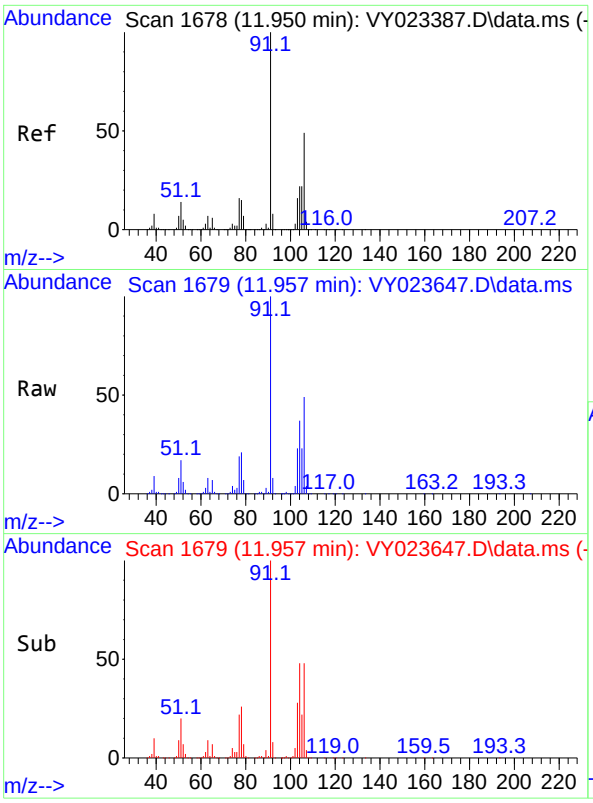


#68
m/p-Xylenes
Concen: 115.295 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:106 Resp: 1022909

Ion	Ratio	Lower	Upper
106	100		
91	193.3	152.6	229.0

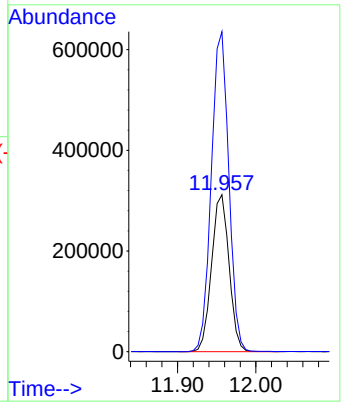




#69
o-Xylene
Concen: 58.108 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:106 Resp: 48356

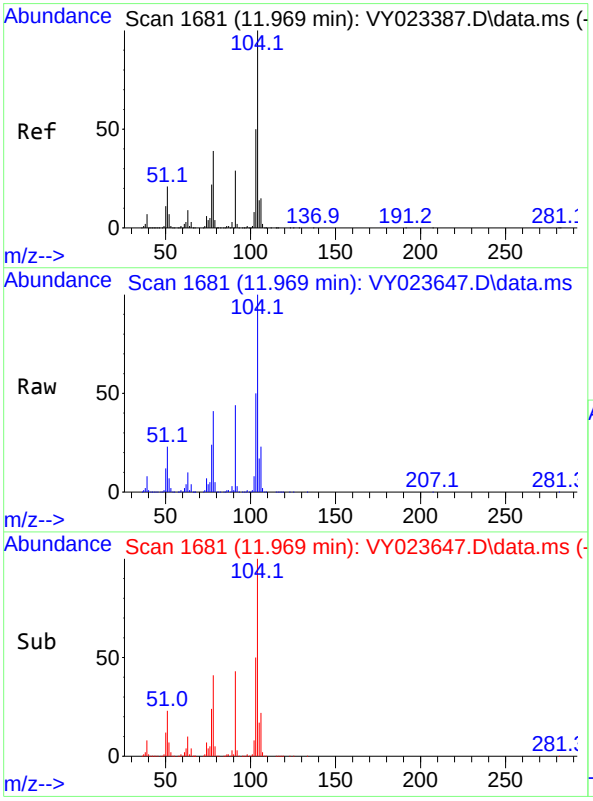
Ion	Ratio	Lower	Upper
106	100		
91	203.2	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

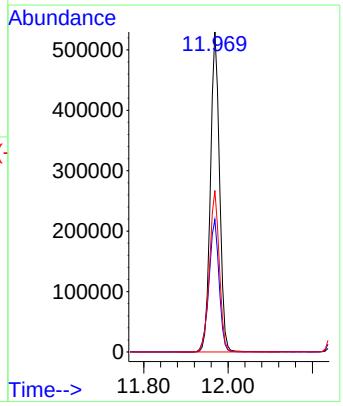
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

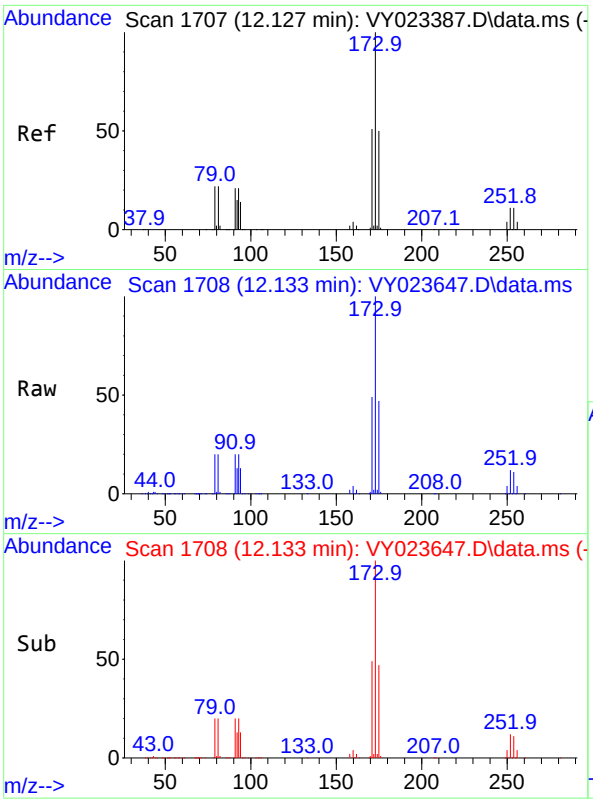


#70
Styrene
Concen: 58.450 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:104 Resp: 799871

Ion	Ratio	Lower	Upper
104	100		
78	45.5	36.1	54.1
103	54.5	43.2	64.8

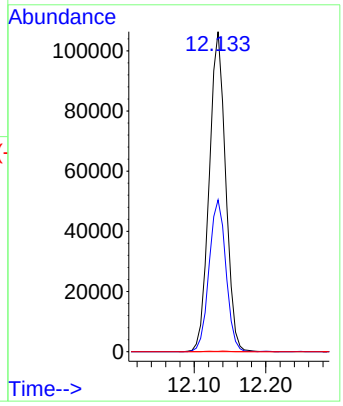




#71
Bromoform
Concen: 55.997 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:173 Resp: 16914

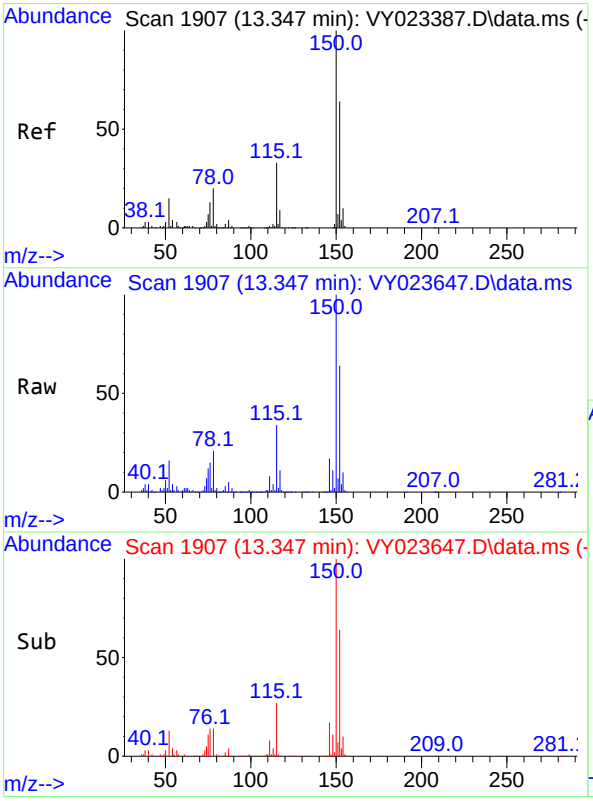
Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.8	74.3
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

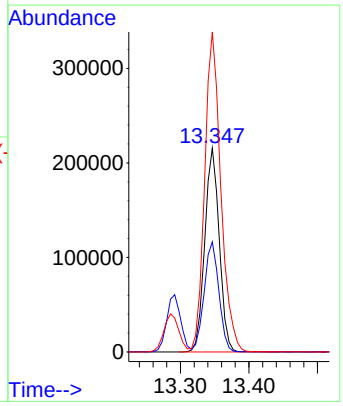
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

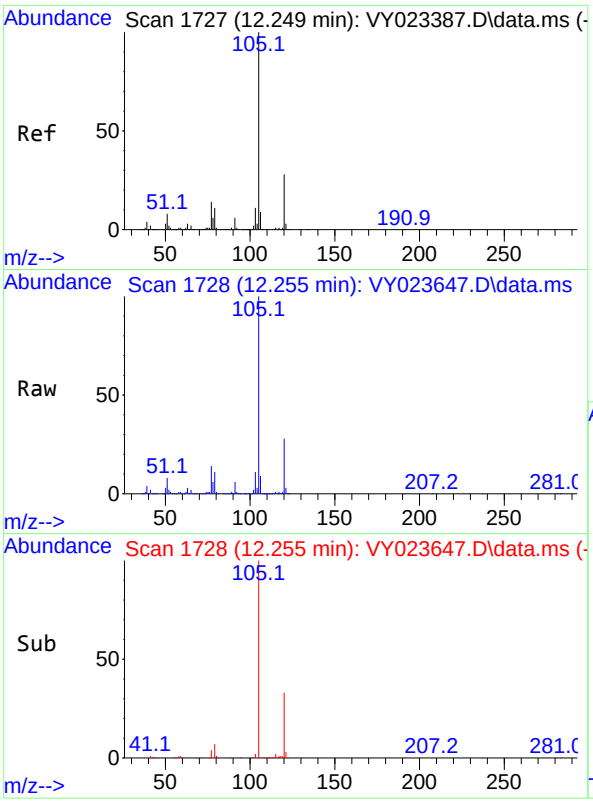


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:152 Resp: 317717

Ion	Ratio	Lower	Upper
152	100		
115	54.5	27.1	81.2
150	174.8	0.0	347.4

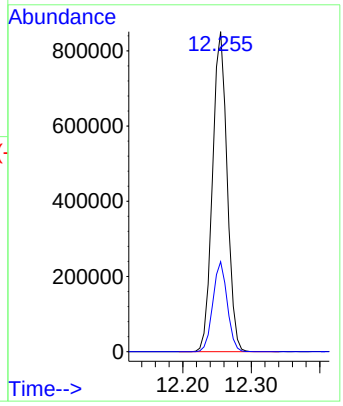




#73
Isopropylbenzene
Concen: 60.245 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:105 Resp: 126141

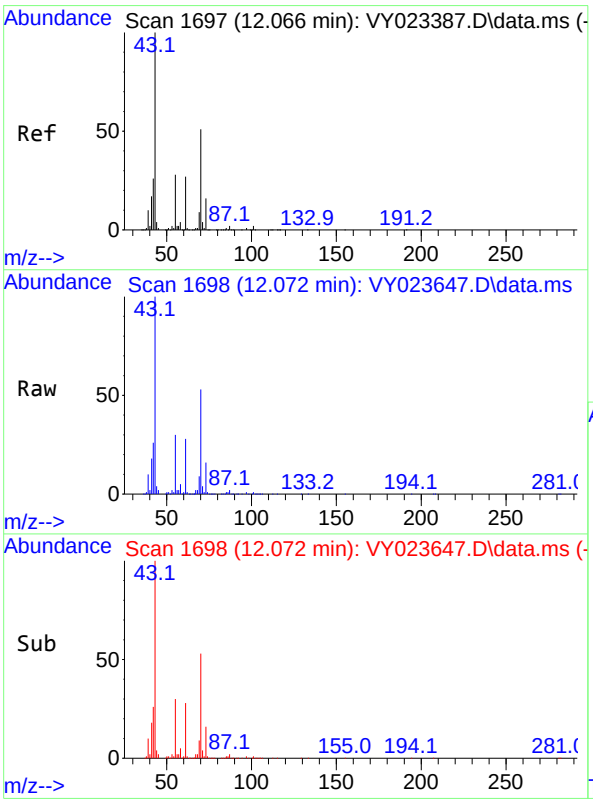
Ion	Ratio	Lower	Upper
105	100		
120	27.6	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

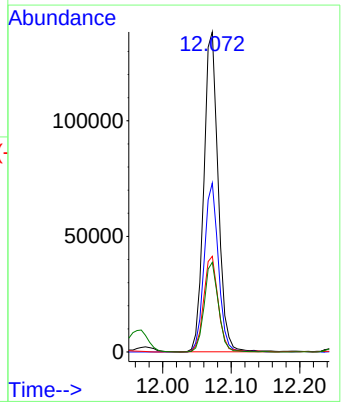
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

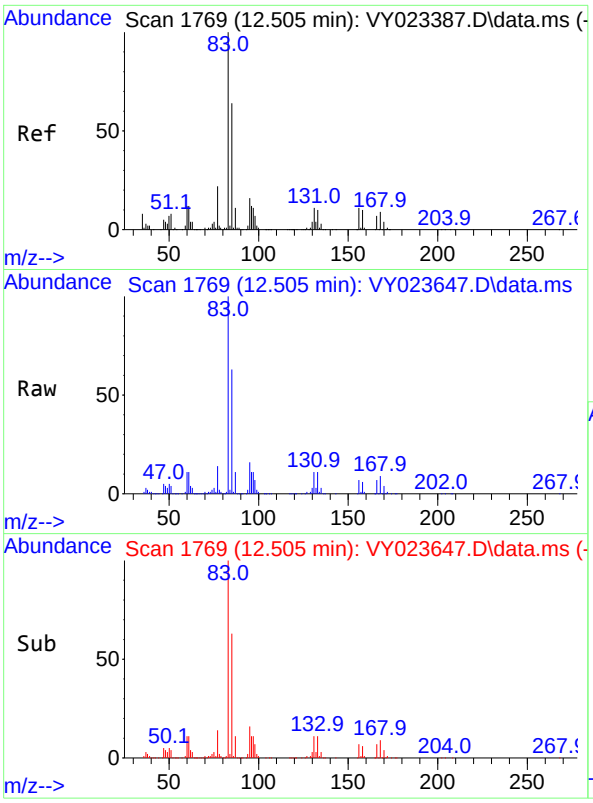


#74
N-amyl acetate
Concen: 53.654 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 43 Resp: 201782

Ion	Ratio	Lower	Upper
43	100		
70	52.3	41.1	61.7
55	30.3	23.0	34.6
61	27.7	21.4	32.2

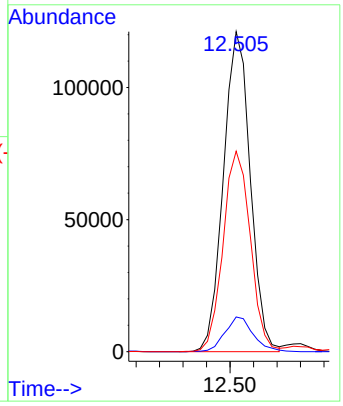




#75
1,1,2,2-Tetrachloroethane
Concen: 56.142 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 83 Resp: 19225

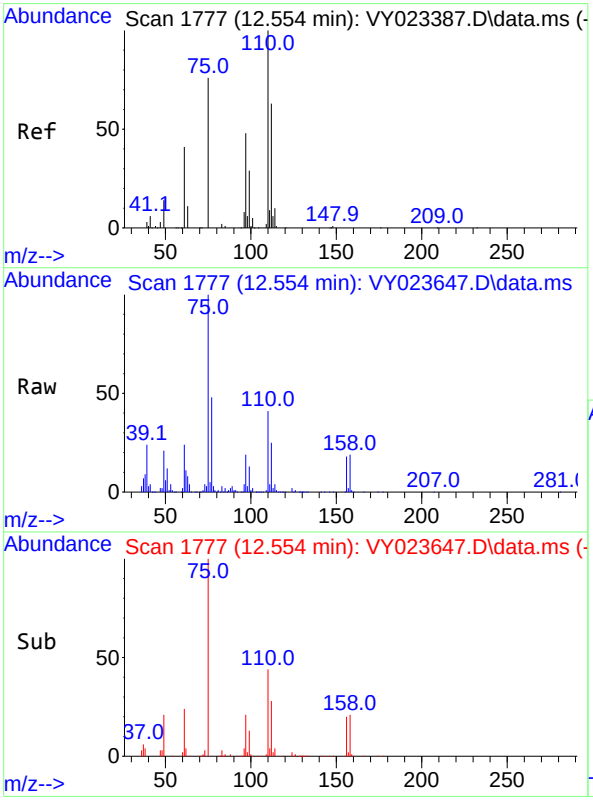
Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.9	17.6
85	63.7	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

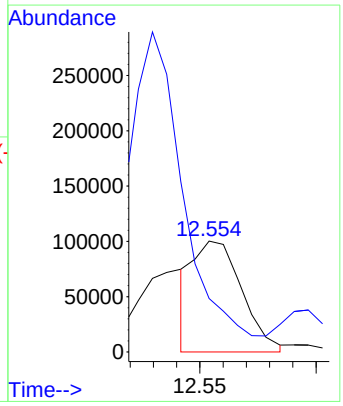
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

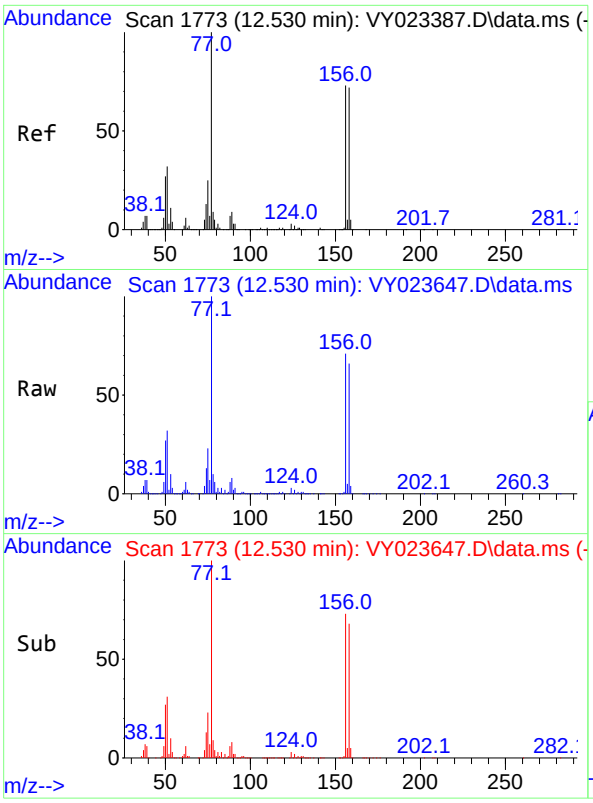


#76
1,2,3-Trichloropropane
Concen: 52.363 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 75 Resp: 146778

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

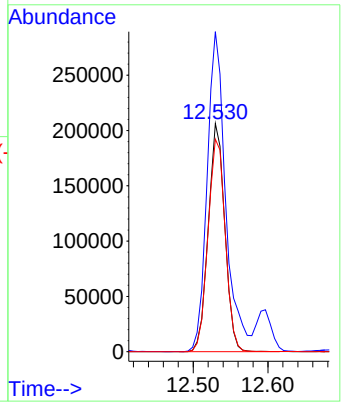




#77
Bromobenzene
Concen: 57.017 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:156 Resp: 31738

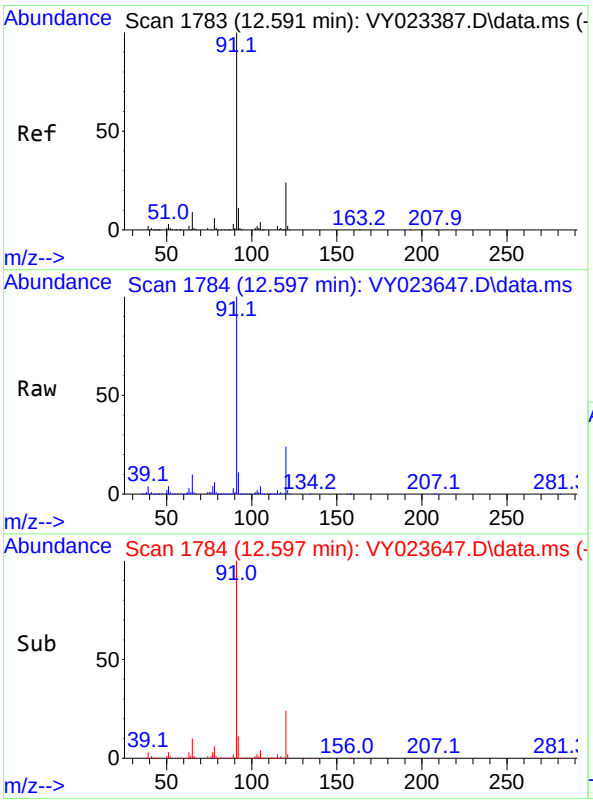
Ion	Ratio	Lower	Upper
156	100		
77	157.4	76.8	230.5
158	97.2	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

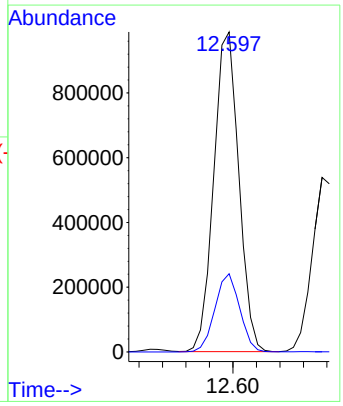
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

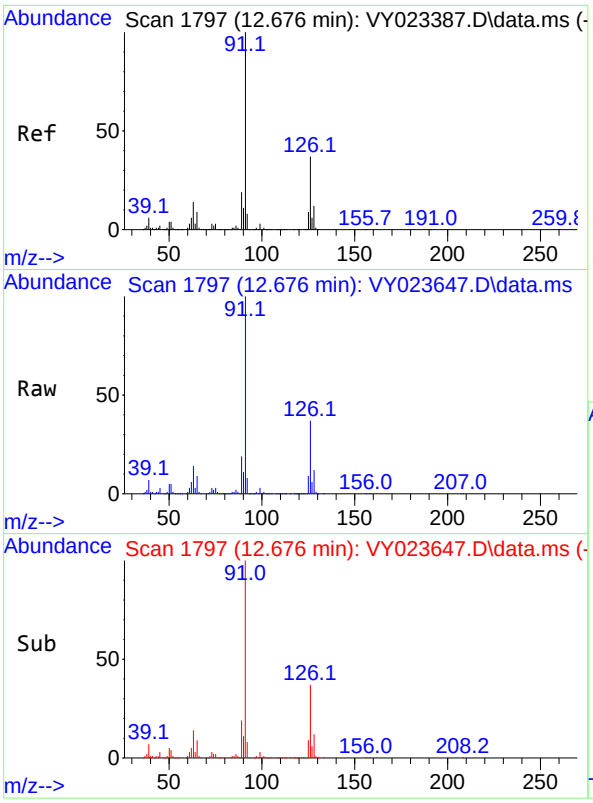


#78
n-propylbenzene
Concen: 60.302 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 91 Resp: 1461093

Ion	Ratio	Lower	Upper
91	100		
120	24.2	12.3	36.8

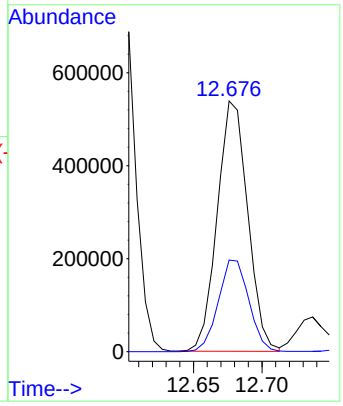




#79
2-Chlorotoluene
Concen: 58.799 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 91 Resp: 83428

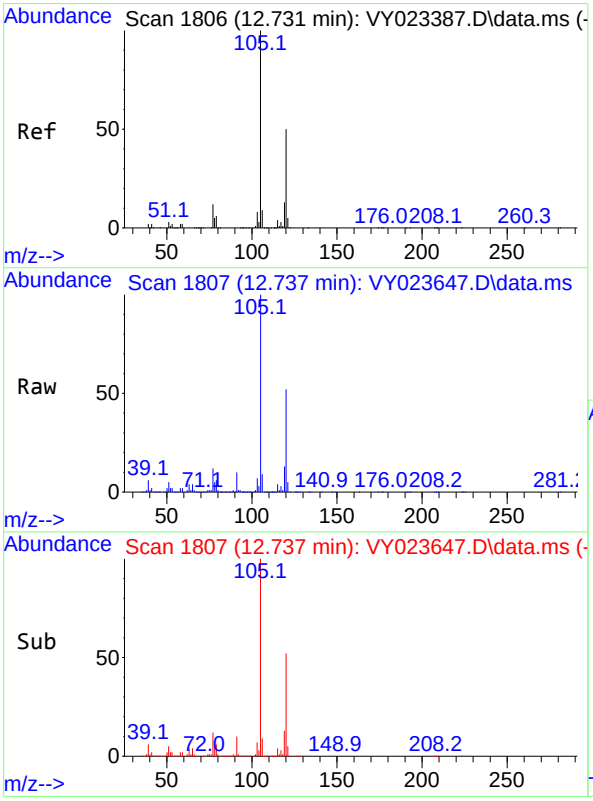
Ion	Ratio	Lower	Upper
91	100		
126	36.8	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

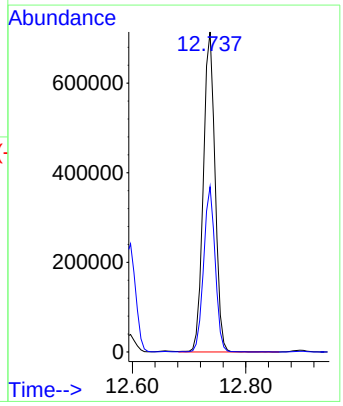
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

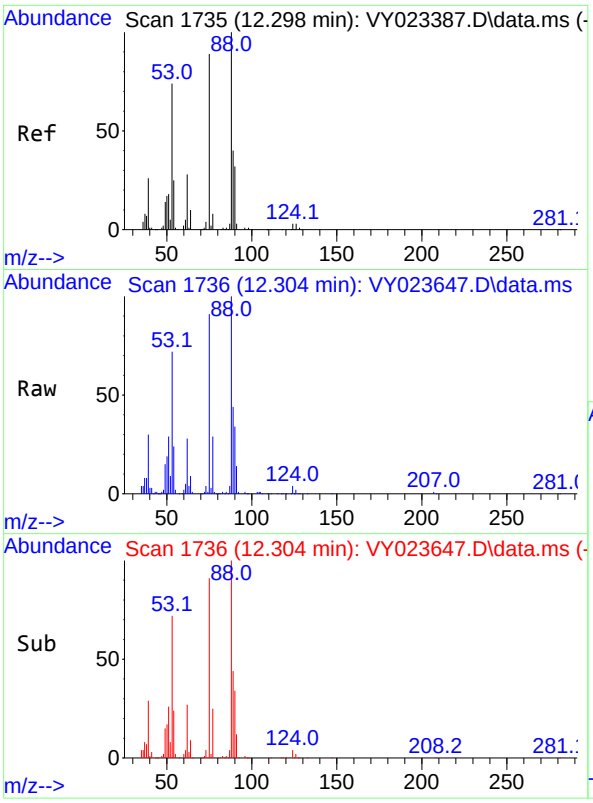


#80
1,3,5-Trimethylbenzene
Concen: 60.432 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:105 Resp: 1022473

Ion	Ratio	Lower	Upper
105	100		
120	50.7	25.4	76.4

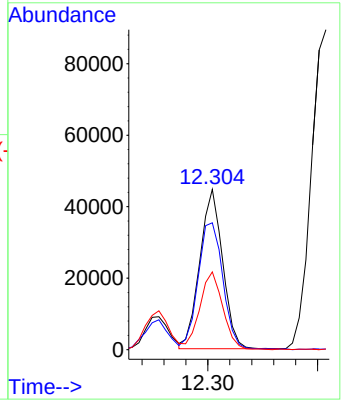




#81
trans-1,4-Dichloro-2-butene
Concen: 56.419 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 75 Resp: 6449

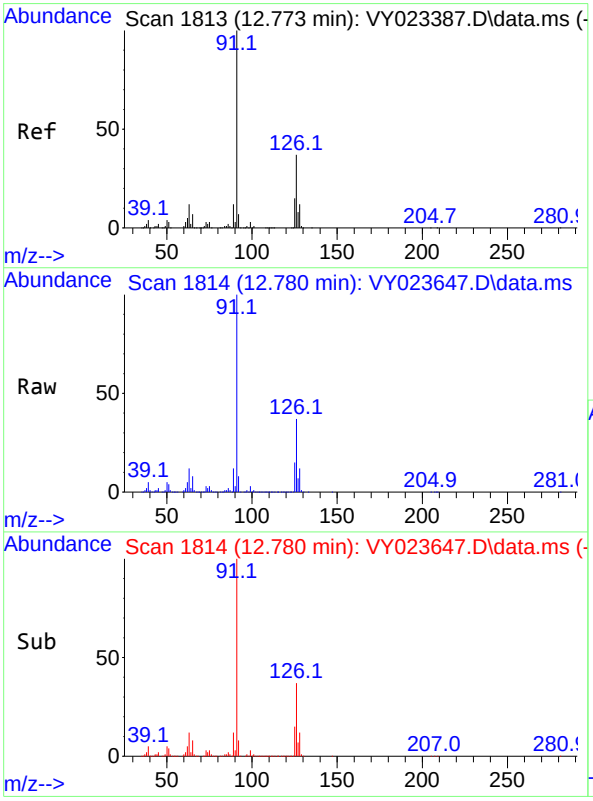
Ion	Ratio	Lower	Upper
75	100		
53	87.7	68.6	102.8
89	48.8	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

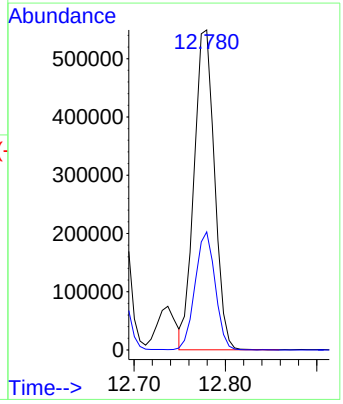
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

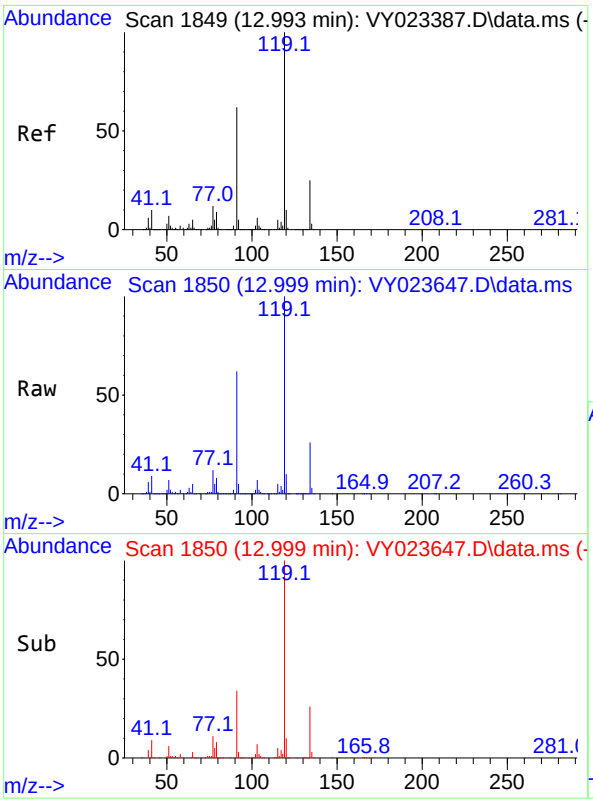


#82
4-Chlorotoluene
Concen: 58.419 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 91 Resp: 853654

Ion	Ratio	Lower	Upper
91	100		
126	36.3	18.4	55.4

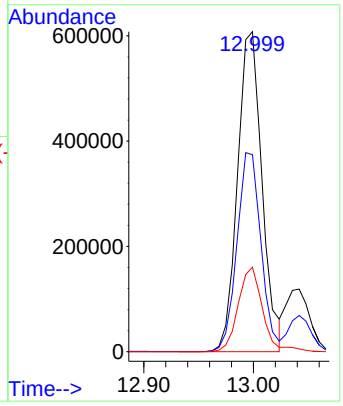




#83
tert-Butylbenzene
Concen: 60.401 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:119 Resp: 94358

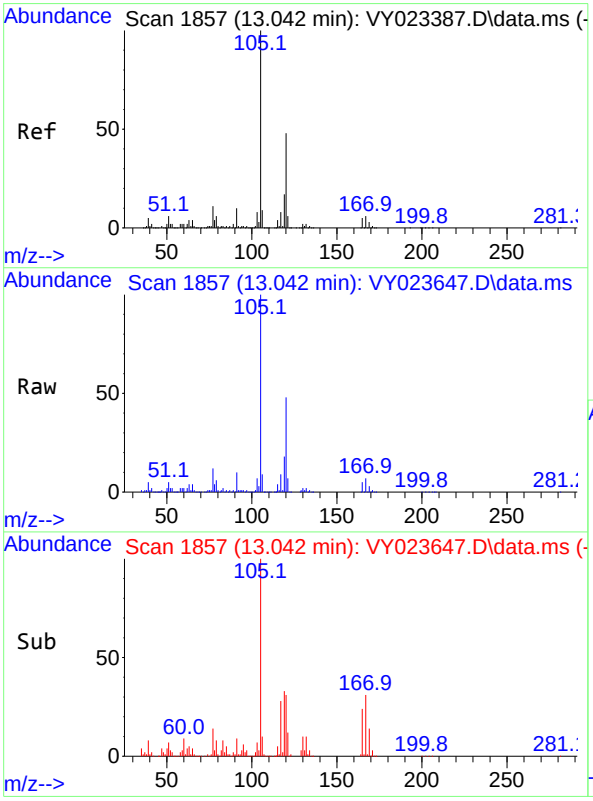
Ion	Ratio	Lower	Upper
119	100		
91	61.0	29.9	89.8
134	26.3	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

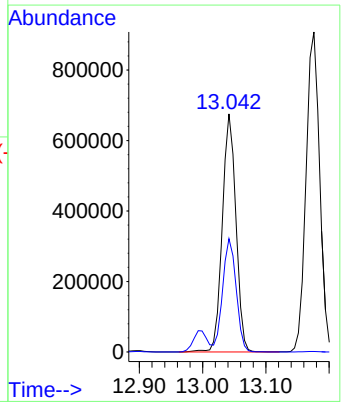
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

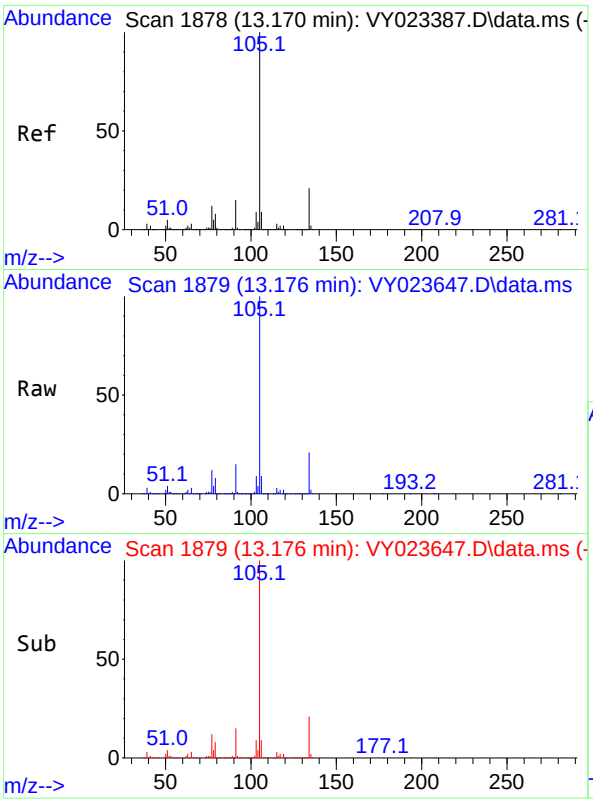


#84
1,2,4-Trimethylbenzene
Concen: 59.536 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:105 Resp: 1005291

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.8	71.2

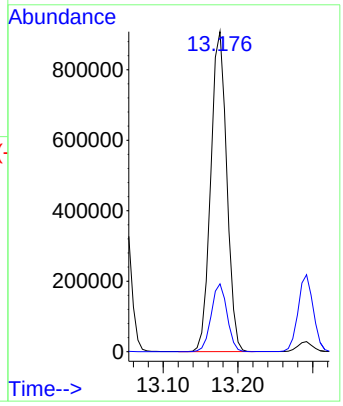




#85
sec-Butylbenzene
Concen: 60.305 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:105 Resp: 135140

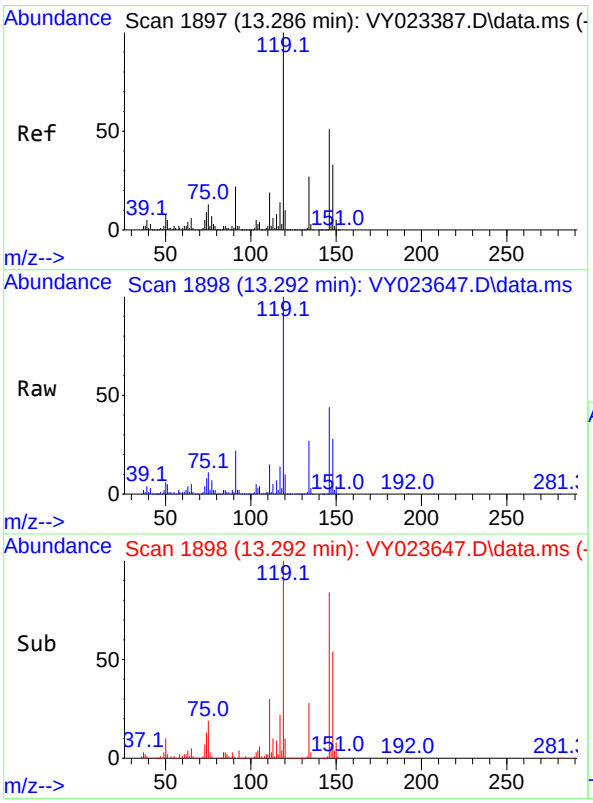
Ion	Ratio	Lower	Upper
105	100		
134	21.0	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

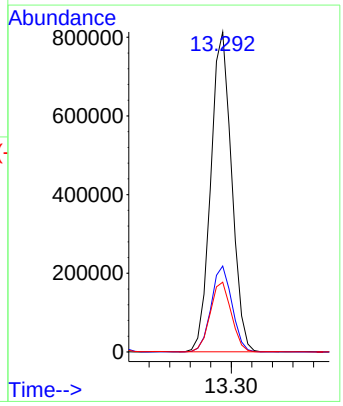
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

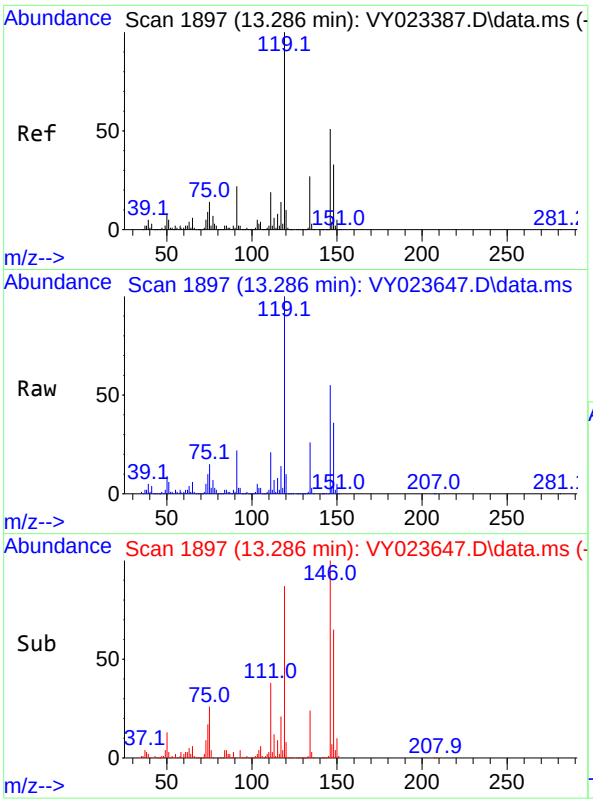


#86
p-Isopropyltoluene
Concen: 59.959 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:119 Resp: 1144013

Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.6	40.7
91	22.1	10.9	32.9

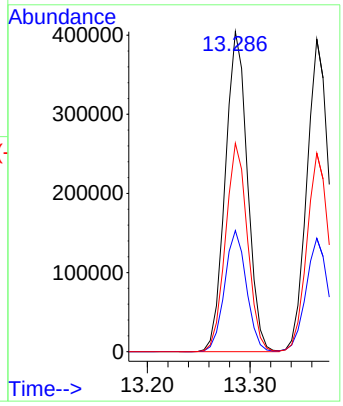




#87
1,3-Dichlorobenzene
Concen: 55.872 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:146 Resp: 60562

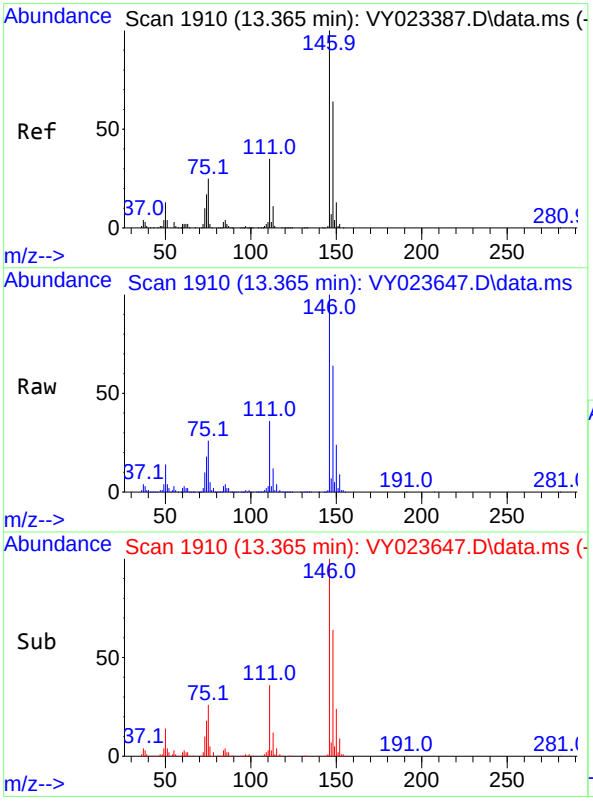
Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.7	56.1
148	64.4	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

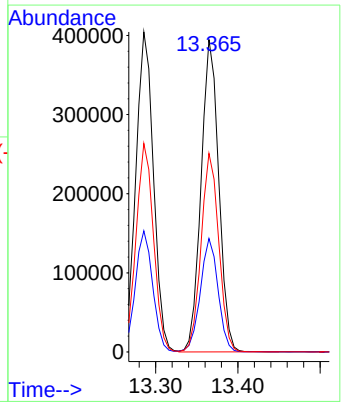
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

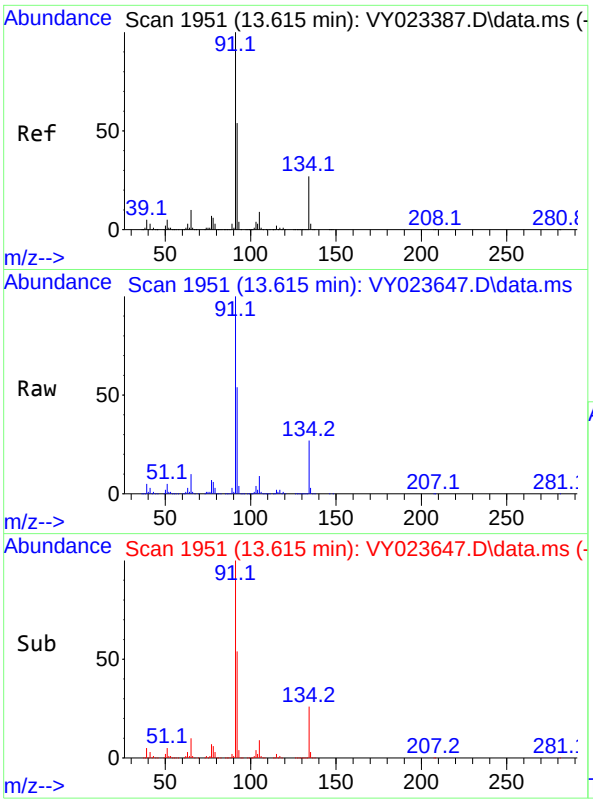


#88
1,4-Dichlorobenzene
Concen: 55.070 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:146 Resp: 589557

Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.0	54.0
148	63.6	31.9	95.7

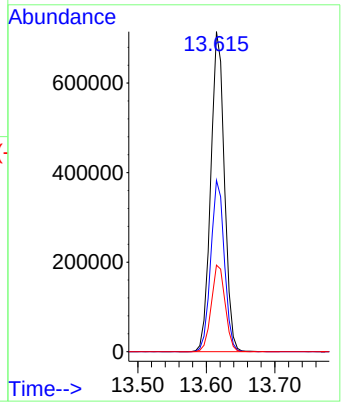




#89
n-Butylbenzene
Concen: 59.536 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 91 Resp: 98977

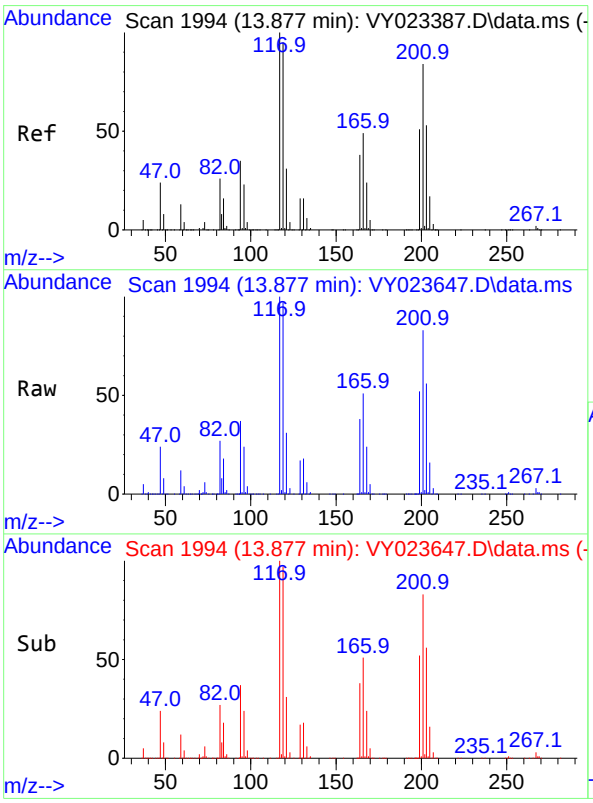
Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.0	80.8
134	27.5	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

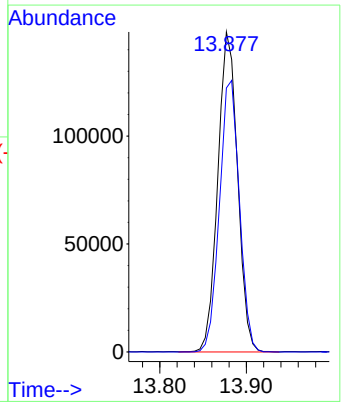
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

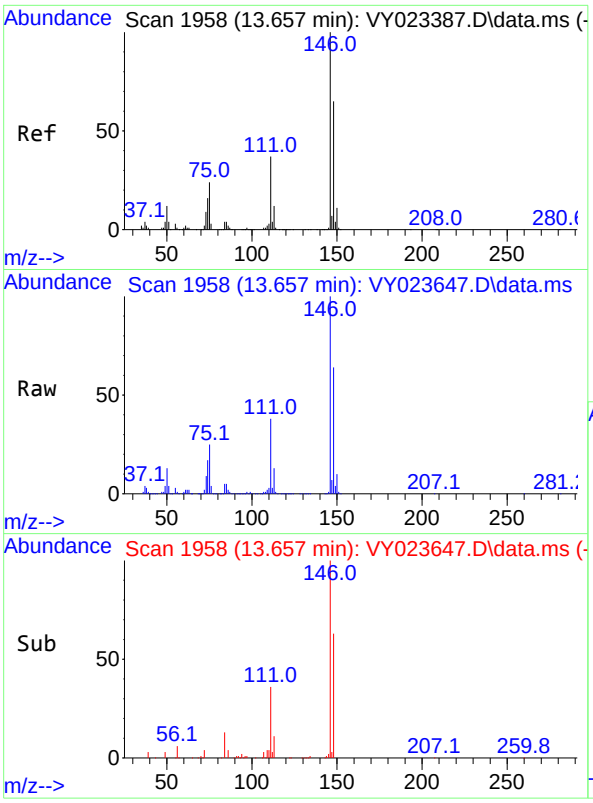


#90
Hexachloroethane
Concen: 57.201 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:117 Resp: 234735

Ion	Ratio	Lower	Upper
117	100		
201	85.7	43.8	131.4

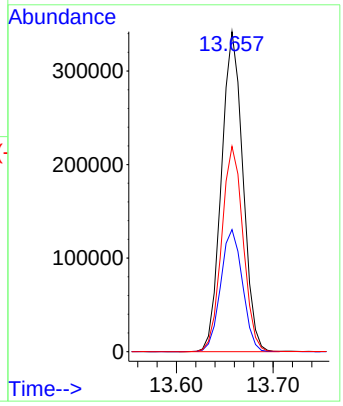




#91
1,2-Dichlorobenzene
Concen: 55.355 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:146 Resp: 52605

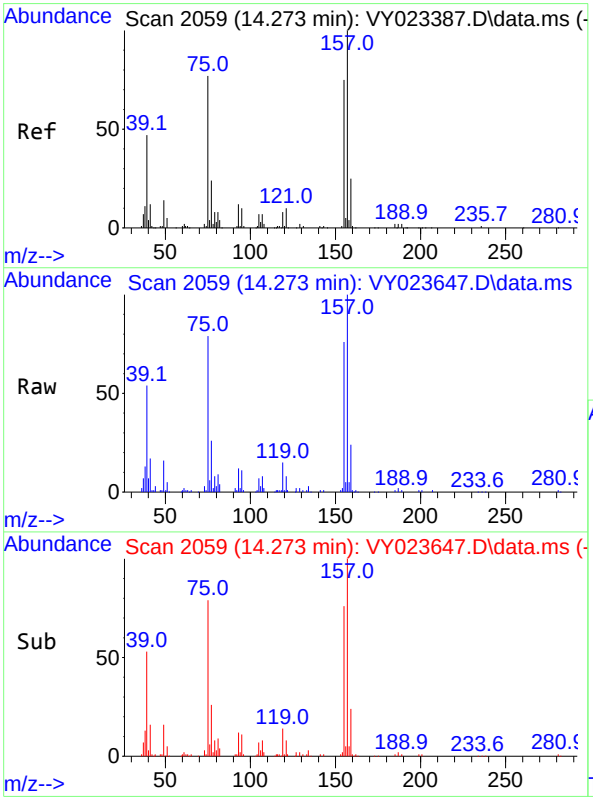
Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.0	57.0
148	64.4	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

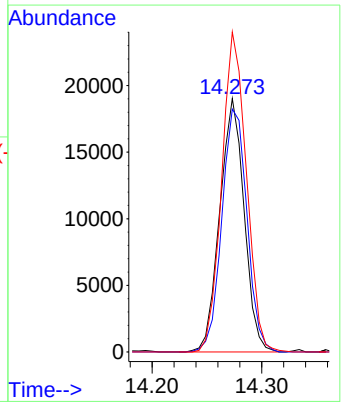
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

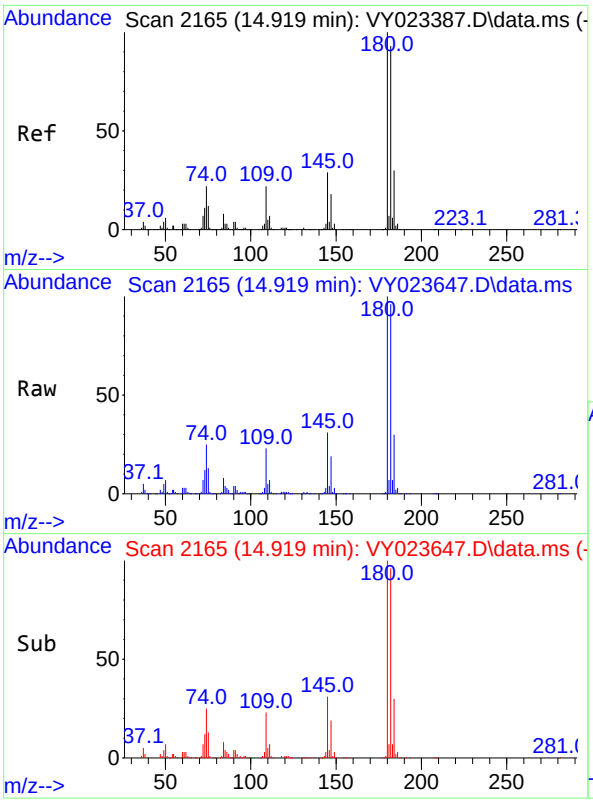


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.223 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion: 75 Resp: 29344

Ion	Ratio	Lower	Upper
75	100		
155	99.1	50.0	150.0
157	127.5	63.8	191.5

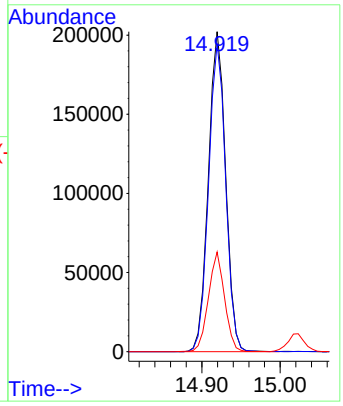




#93
1,2,4-Trichlorobenzene
Concen: 52.147 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:180 Resp: 30894

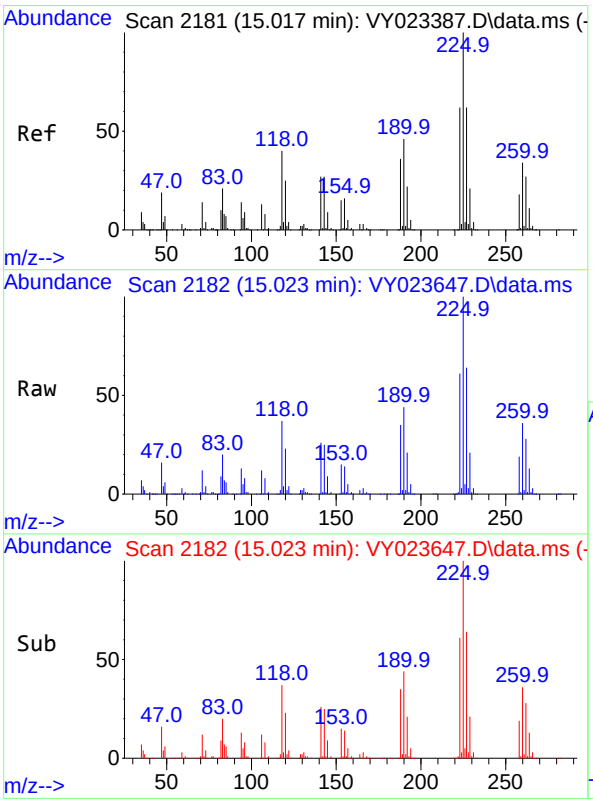
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.9	143.6
145	29.1	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

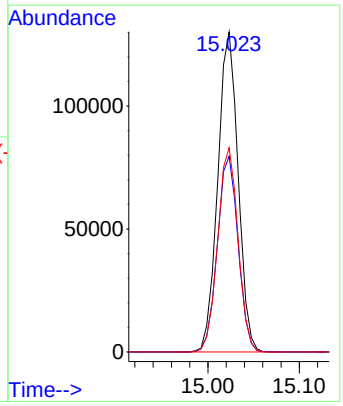
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

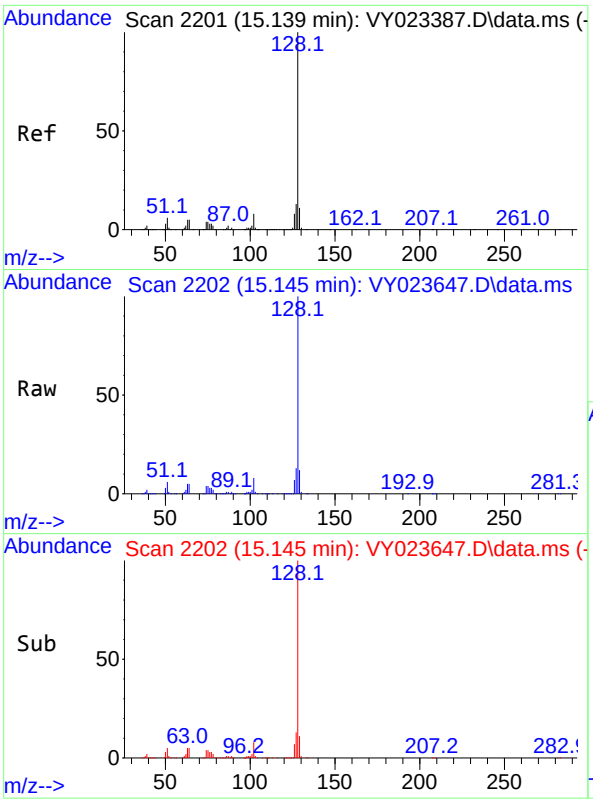


#94
Hexachlorobutadiene
Concen: 54.398 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:225 Resp: 200898

Ion	Ratio	Lower	Upper
225	100		
223	62.2	30.8	92.3
227	63.9	31.9	95.7

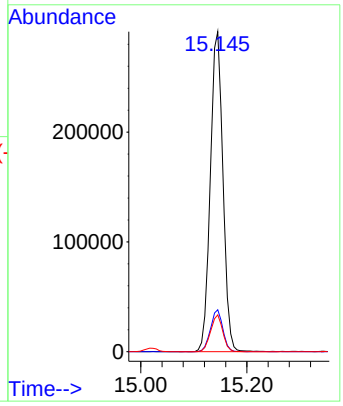




#95
Naphthalene
Concen: 50.912 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:128 Resp: 48031

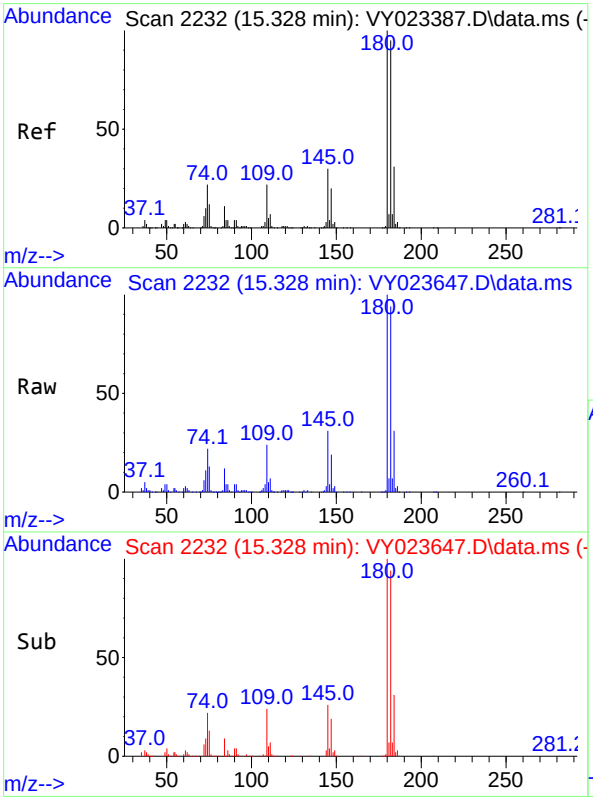
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	11.1	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

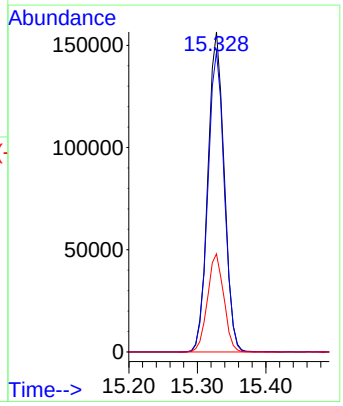
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.559 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY023647.D
Acq: 03 Nov 2025 09:25

Tgt Ion:180 Resp: 259452

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.9	143.8
145	30.6	15.3	45.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023647.D
Acq On : 03 Nov 2025 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :

Quant Time: Nov 04 01:28:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	84	0.00
2	T	Dichlorodifluoromethane	50.000	42.279	15.4	80	0.00
3	P	Chloromethane	50.000	41.906	16.2	77	0.00
4	C	Vinyl Chloride	50.000	44.739	10.5#	80	0.00
5	T	Bromomethane	50.000	43.356	13.3	83	0.00
6	T	Chloroethane	50.000	48.003	4.0	85	0.00
7	T	Trichlorofluoromethane	50.000	49.884	0.2	88	0.00
8	T	Diethyl Ether	50.000	52.299	-4.6	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	53.977	-8.0	96	0.00
10	T	Methyl Iodide	50.000	58.260	-16.5	93	0.00
11	T	Tert butyl alcohol	250.000	270.215	-8.1	113	0.00
12	CM	1,1-Dichloroethene	50.000	51.933	-3.9#	91	0.00
13	T	Acrolein	250.000	37.798	84.9#	13	0.00
14	T	Allyl chloride	50.000	54.102	-8.2	94	0.01
15	T	Acrylonitrile	250.000	270.161	-8.1	99	0.00
16	T	Acetone	250.000	274.111	-9.6	110	0.00
17	T	Carbon Disulfide	50.000	46.607	6.8	82	0.00
18	T	Methyl Acetate	50.000	65.693	-31.4#	118	0.00
19	T	Methyl tert-butyl Ether	50.000	55.787	-11.6	99	0.00
20	T	Methylene Chloride	50.000	47.601	4.8	94	0.00
21	T	trans-1,2-Dichloroethene	50.000	53.326	-6.7	94	0.00
22	T	Diisopropyl ether	50.000	56.552	-13.1	98	0.00
23	T	Vinyl Acetate	250.000	261.811	-4.7	92	0.00
24	P	1,1-Dichloroethane	50.000	55.093	-10.2	97	0.00
25	T	2-Butanone	250.000	264.561	-5.8	103	0.00
26	T	2,2-Dichloropropane	50.000	57.071	-14.1	99	0.00
27	T	cis-1,2-Dichloroethene	50.000	55.888	-11.8	98	0.00
28	T	Bromochloromethane	50.000	47.217	5.6	89	0.00
29	T	Tetrahydrofuran	250.000	265.445	-6.2	97	0.00
30	C	Chloroform	50.000	56.851	-13.7#	100	0.00
31	T	Cyclohexane	50.000	49.679	0.6	90	0.00
32	T	1,1,1-Trichloroethane	50.000	55.882	-11.8	97	0.00
33	S	1,2-Dichloroethane-d4	50.000	47.530	4.9	85	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	83	0.00
35	S	Dibromofluoromethane	50.000	50.659	-1.3	87	0.00
36	T	1,1-Dichloropropene	50.000	56.323	-12.6	96	0.00
37	T	Ethyl Acetate	50.000	52.518	-5.0	94	0.00
38	T	Carbon Tetrachloride	50.000	56.549	-13.1	97	0.00
39	T	Methylcyclohexane	50.000	54.255	-8.5	91	0.00
40	TM	Benzene	50.000	56.320	-12.6	96	0.00
41	T	Methacrylonitrile	50.000	50.909	-1.8	93	0.00
42	TM	1,2-Dichloroethane	50.000	54.890	-9.8	97	0.00
43	T	Isopropyl Acetate	50.000	53.541	-7.1	95	0.00
44	TM	Trichloroethene	50.000	55.399	-10.8	95	0.00
45	C	1,2-Dichloropropane	50.000	57.032	-14.1#	99	0.00
46	T	Dibromomethane	50.000	56.159	-12.3	97	0.00
47	T	Bromodichloromethane	50.000	57.004	-14.0	98	0.00
48	T	Methyl methacrylate	50.000	55.250	-10.5	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023647.D
Acq On : 03 Nov 2025 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :

Quant Time: Nov 04 01:28:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	1049.697	-5.0	92	0.00
50	S	Toluene-d8	50.000	50.059	-0.1	85	0.00
51	T	4-Methyl-2-Pentanone	250.000	287.521	-15.0	100	0.00
52	CM	Toluene	50.000	57.279	-14.6#	97	0.00
53	T	t-1,3-Dichloropropene	50.000	56.723	-13.4	97	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.902	-13.8	97	0.00
55	T	1,1,2-Trichloroethane	50.000	57.383	-14.8	100	0.00
56	T	Ethyl methacrylate	50.000	57.270	-14.5	96	0.00
57	T	1,3-Dichloropropane	50.000	56.498	-13.0	97	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	278.254	-11.3	90	0.00
59	T	2-Hexanone	250.000	283.674	-13.5	100	0.00
60	T	Dibromochloromethane	50.000	57.128	-14.3	99	0.00
61	T	1,2-Dibromoethane	50.000	55.991	-12.0	97	0.00
62	S	4-Bromofluorobenzene	50.000	50.673	-1.3	87	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	84	0.00
64	T	Tetrachloroethene	50.000	57.906	-15.8	96	0.00
65	PM	Chlorobenzene	50.000	55.709	-11.4	96	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	57.820	-15.6	101	0.00
67	C	Ethyl Benzene	50.000	58.039	-16.1#	96	0.00
68	T	m/p-Xylenes	100.000	115.295	-15.3	95	0.00
69	T	o-Xylene	50.000	58.108	-16.2	96	0.00
70	T	Styrene	50.000	58.450	-16.9	96	0.00
71	P	Bromoform	50.000	55.997	-12.0	98	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	81	0.00
73	T	Isopropylbenzene	50.000	60.245	-20.5	97	0.00
74	T	N-amyl acetate	50.000	53.654	-7.3	89	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	56.142	-12.3	98	0.00
76	T	1,2,3-Trichloropropane	50.000	52.363	-4.7	86	0.00
77	T	Bromobenzene	50.000	57.017	-14.0	96	0.00
78	T	n-propylbenzene	50.000	60.302	-20.6	96	0.00
79	T	2-Chlorotoluene	50.000	58.799	-17.6	96	0.00
80	T	1,3,5-Trimethylbenzene	50.000	60.432	-20.9	96	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	56.419	-12.8	97	0.00
82	T	4-Chlorotoluene	50.000	58.419	-16.8	96	0.00
83	T	tert-Butylbenzene	50.000	60.401	-20.8	95	0.00
84	T	1,2,4-Trimethylbenzene	50.000	59.536	-19.1	95	0.00
85	T	sec-Butylbenzene	50.000	60.305	-20.6	96	0.00
86	T	p-Isopropyltoluene	50.000	59.959	-19.9	94	0.00
87	T	1,3-Dichlorobenzene	50.000	55.872	-11.7	93	0.00
88	T	1,4-Dichlorobenzene	50.000	55.070	-10.1	93	0.00
89	T	n-Butylbenzene	50.000	59.536	-19.1	94	0.00
90	T	Hexachloroethane	50.000	57.201	-14.4	96	0.00
91	T	1,2-Dichlorobenzene	50.000	55.355	-10.7	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.223	-4.4	90	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.147	-4.3	86	0.00
94	T	Hexachlorobutadiene	50.000	54.398	-8.8	89	0.00
95	T	Naphthalene	50.000	50.912	-1.8	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023647.D
Acq On : 03 Nov 2025 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :

Quant Time: Nov 04 01:28:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	50.559	-1.1	83	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023647.D
Acq On : 03 Nov 2025 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 01:28:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	84	0.00
2	T	Dichlorodifluoromethane	0.360	0.304	15.6	80	0.00
3	P	Chloromethane	0.490	0.411	16.1	77	0.00
4	C	Vinyl Chloride	0.639	0.571	10.6#	80	0.00
5	T	Bromomethane	0.536	0.465	13.2	83	0.00
6	T	Chloroethane	0.435	0.418	3.9	85	0.00
7	T	Trichlorofluoromethane	0.887	0.885	0.2	88	0.00
8	T	Diethyl Ether	0.232	0.242	-4.3	95	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.460	0.497	-8.0	96	0.00
10	T	Methyl Iodide	0.512	0.597	-16.6	93	0.00
11	T	Tert butyl alcohol	0.031	0.034	-9.7	113	0.00
12	CM	1,1-Dichloroethene	0.446	0.463	-3.8#	91	0.00
13	T	Acrolein	0.044	0.007	84.1#	13#	0.00
14	T	Allyl chloride	0.544	0.588	-8.1	94	0.01
15	T	Acrylonitrile	0.089	0.096	-7.9	99	0.00
16	T	Acetone	0.100	0.109	-9.0	110	0.00
17	T	Carbon Disulfide	1.277	1.190	6.8	82	0.00
18	T	Methyl Acetate	0.261	0.343	-31.4#	118	0.00
19	T	Methyl tert-butyl Ether	1.072	1.196	-11.6	99	0.00
20	T	Methylene Chloride	0.538	0.512	4.8	94	0.00
21	T	trans-1,2-Dichloroethene	0.491	0.524	-6.7	94	0.00
22	T	Diisopropyl ether	1.202	1.360	-13.1	98	0.00
23	T	Vinyl Acetate	0.651	0.682	-4.8	92	0.00
24	P	1,1-Dichloroethane	0.796	0.878	-10.3	97	0.00
25	T	2-Butanone	0.122	0.129	-5.7	103	0.00
26	T	2,2-Dichloropropane	0.731	0.834	-14.1	99	0.00
27	T	cis-1,2-Dichloroethene	0.567	0.634	-11.8	98	0.00
28	T	Bromochloromethane	0.297	0.281	5.4	89	0.00
29	T	Tetrahydrofuran	0.069	0.073	-5.8	97	0.00
30	C	Chloroform	0.875	0.995	-13.7#	100	0.00
31	T	Cyclohexane	0.696	0.691	0.7	90	0.00
32	T	1,1,1-Trichloroethane	0.795	0.889	-11.8	97	0.00
33	S	1,2-Dichloroethane-d4	0.418	0.397	5.0	85	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	83	0.00
35	S	Dibromofluoromethane	0.307	0.311	-1.3	87	0.00
36	T	1,1-Dichloropropene	0.407	0.458	-12.5	96	0.00
37	T	Ethyl Acetate	0.161	0.169	-5.0	94	0.00
38	T	Carbon Tetrachloride	0.493	0.558	-13.2	97	0.00
39	T	Methylcyclohexane	0.530	0.575	-8.5	91	0.00
40	TM	Benzene	1.288	1.451	-12.7	96	0.00
41	T	Methacrylonitrile	0.087	0.089	-2.3	93	0.00
42	TM	1,2-Dichloroethane	0.332	0.365	-9.9	97	0.00
43	T	Isopropyl Acetate	0.321	0.344	-7.2	95	0.00
44	TM	Trichloroethene	0.377	0.418	-10.9	95	0.00
45	C	1,2-Dichloropropane	0.285	0.325	-14.0#	99	0.00
46	T	Dibromomethane	0.180	0.202	-12.2	97	0.00
47	T	Bromodichloromethane	0.453	0.517	-14.1	98	0.00
48	T	Methyl methacrylate	0.151	0.167	-10.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023647.D
Acq On : 03 Nov 2025 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 01:28:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	0.002	0.002	0.0	92	0.00
50	S	Toluene-d8	1.144	1.145	-0.1	85	0.00
51	T	4-Methyl-2-Pentanone	0.166	0.191	-15.1	100	0.00
52	CM	Toluene	0.836	0.958	-14.6#	97	0.00
53	T	t-1,3-Dichloropropene	0.394	0.447	-13.5	97	0.00
54	T	cis-1,3-Dichloropropene	0.465	0.529	-13.8	97	0.00
55	T	1,1,2-Trichloroethane	0.242	0.278	-14.9	100	0.00
56	T	Ethyl methacrylate	0.279	0.320	-14.7	96	0.00
57	T	1,3-Dichloropropane	0.383	0.433	-13.1	97	0.00
58	T	2-Chloroethyl Vinyl ether	0.125	0.139	-11.2	90	0.00
59	T	2-Hexanone	0.119	0.135	-13.4	100	0.00
60	T	Dibromochloromethane	0.339	0.388	-14.5	99	0.00
61	T	1,2-Dibromoethane	0.231	0.258	-11.7	97	0.00
62	S	4-Bromofluorobenzene	0.378	0.383	-1.3	87	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
64	T	Tetrachloroethene	0.516	0.598	-15.9	96	0.00
65	PM	Chlorobenzene	1.087	1.212	-11.5	96	0.00
66	T	1,1,1,2-Tetrachloroethane	0.388	0.448	-15.5	101	0.00
67	C	Ethyl Benzene	1.760	2.043	-16.1#	96	0.00
68	T	m/p-Xylenes	0.706	0.814	-15.3	95	0.00
69	T	o-Xylene	0.662	0.770	-16.3	96	0.00
70	T	Styrene	1.089	1.273	-16.9	96	0.00
71	P	Bromoform	0.240	0.269	-12.1	98	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00
73	T	Isopropylbenzene	3.295	3.970	-20.5	97	0.00
74	T	N-amyl acetate	0.592	0.635	-7.3	89	0.00
75	P	1,1,2,2-Tetrachloroethane	0.539	0.605	-12.2	98	0.00
76	T	1,2,3-Trichloropropane	0.441	0.462	-4.8	86	0.00
77	T	Bromobenzene	0.876	0.999	-14.0	96	0.00
78	T	n-propylbenzene	3.813	4.599	-20.6	96	0.00
79	T	2-Chlorotoluene	2.233	2.626	-17.6	96	0.00
80	T	1,3,5-Trimethylbenzene	2.663	3.218	-20.8	96	0.00
81	T	trans-1,4-Dichloro-2-butene	0.180	0.203	-12.8	97	0.00
82	T	4-Chlorotoluene	2.300	2.687	-16.8	96	0.00
83	T	tert-Butylbenzene	2.458	2.970	-20.8	95	0.00
84	T	1,2,4-Trimethylbenzene	2.657	3.164	-19.1	95	0.00
85	T	sec-Butylbenzene	3.527	4.253	-20.6	96	0.00
86	T	p-Isopropyltoluene	3.003	3.601	-19.9	94	0.00
87	T	1,3-Dichlorobenzene	1.706	1.906	-11.7	93	0.00
88	T	1,4-Dichlorobenzene	1.685	1.856	-10.1	93	0.00
89	T	n-Butylbenzene	2.616	3.115	-19.1	94	0.00
90	T	Hexachloroethane	0.646	0.739	-14.4	96	0.00
91	T	1,2-Dichlorobenzene	1.496	1.656	-10.7	93	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.088	0.092	-4.5	90	0.00
93	T	1,2,4-Trichlorobenzene	0.932	0.972	-4.3	86	0.00
94	T	Hexachlorobutadiene	0.581	0.632	-8.8	89	0.00
95	T	Naphthalene	1.485	1.512	-1.8	84	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023647.D
Acq On : 03 Nov 2025 09:25
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_Y
LabSampleId :
VSTDCCC050

Quant Time: Nov 04 01:28:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 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	0.808	0.817	-1.1	83	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

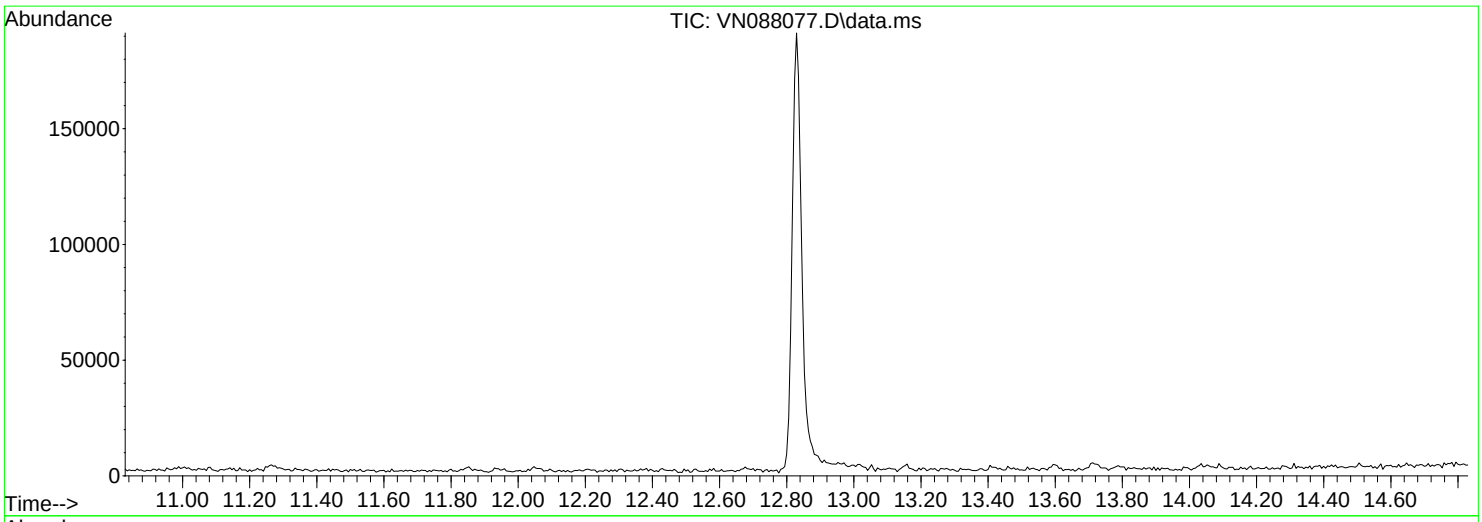
QC SAMPLE DATA

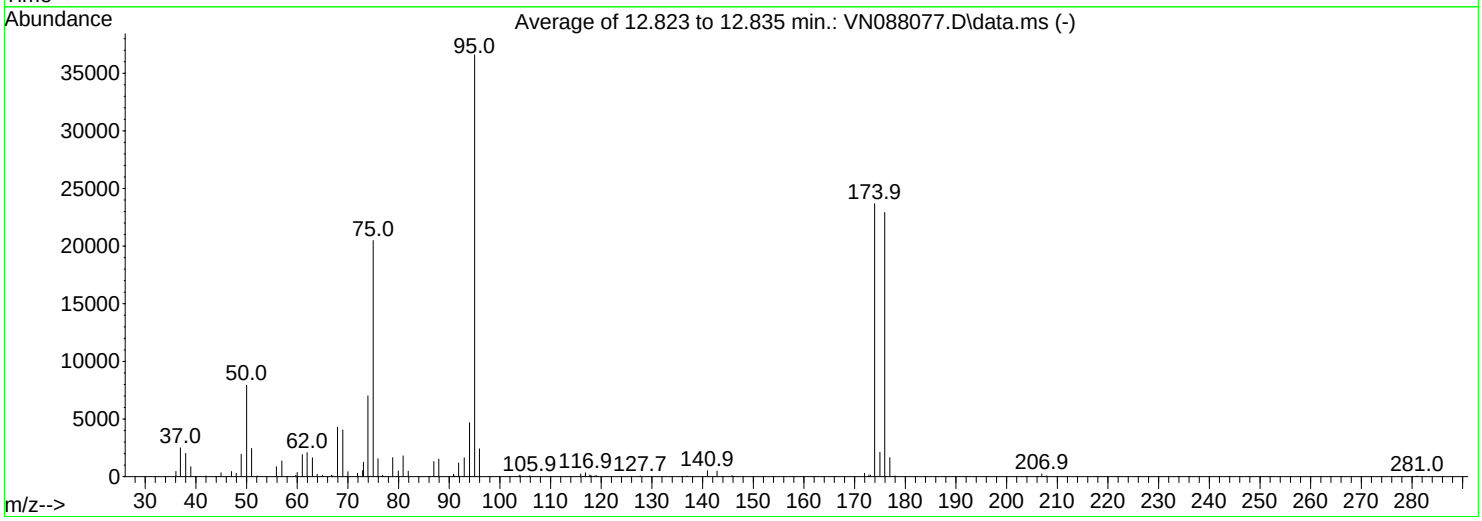
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102325\
Data File : VN088077.D
Acq On : 23 Oct 2025 09:09
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Title : SW846 8260
Last Update : Sat Oct 25 00:15:22 2025





AutoFind: Scans 1848, 1849, 1850; Background Corrected with Scan 1839

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	7924	PASS
75	95	30	60	56.0	20496	PASS
95	95	100	100	100.0	36595	PASS
96	95	5	9	6.6	2412	PASS
173	174	0.00	2	0.6	141	PASS
174	95	50	100	64.7	23688	PASS
175	174	5	9	8.9	2114	PASS
176	174	95	101	96.8	22925	PASS
177	176	5	9	7.2	1653	PASS

Average of 12.823 to 12.835 min.: VN088077.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	458	50.00	7924	64.95	132	75.95	155
36.95	2501	51.00	2446	66.75	129	76.85	12
38.00	2013	52.20	50	67.00	76	78.85	165
39.00	861	55.90	867	67.95	4293	79.95	50
39.85	28	56.95	1354	69.00	4051	80.90	1809
42.00	57	59.70	109	70.00	424	81.90	470
43.90	19	60.00	356	71.90	286	86.95	1303
44.95	328	61.00	1910	72.90	530	87.95	1532
47.00	441	61.95	2077	73.05	1259	90.85	210
47.95	276	63.00	1644	73.95	7010	91.10	62
48.95	1951	63.95	214	75.00	20496	91.85	1175

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.823 to 12.835 min.: VN088077.D\data.ms
BFB
Modified:subtracted

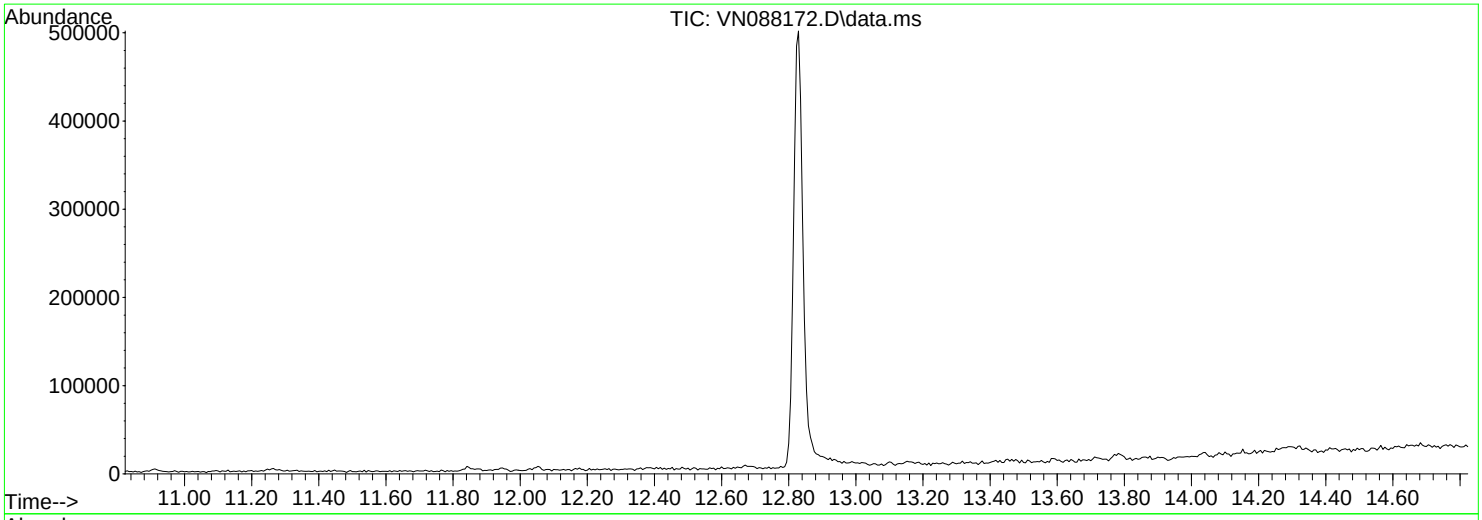
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.95	1644	117.95	115	173.95	23688		
94.00	4674	118.80	84	175.00	2114		
95.00	36595	119.10	82	175.95	22925		
95.95	2412	127.70	70	176.95	1653		
103.80	60	136.90	63	178.00	54		
103.95	139	140.95	512	206.95	238		
105.90	74	142.85	486	207.90	72		
115.95	231	145.80	89	281.00	50		
116.60	62	171.95	296				
116.90	332	172.80	135				
117.75	138	173.10	141				

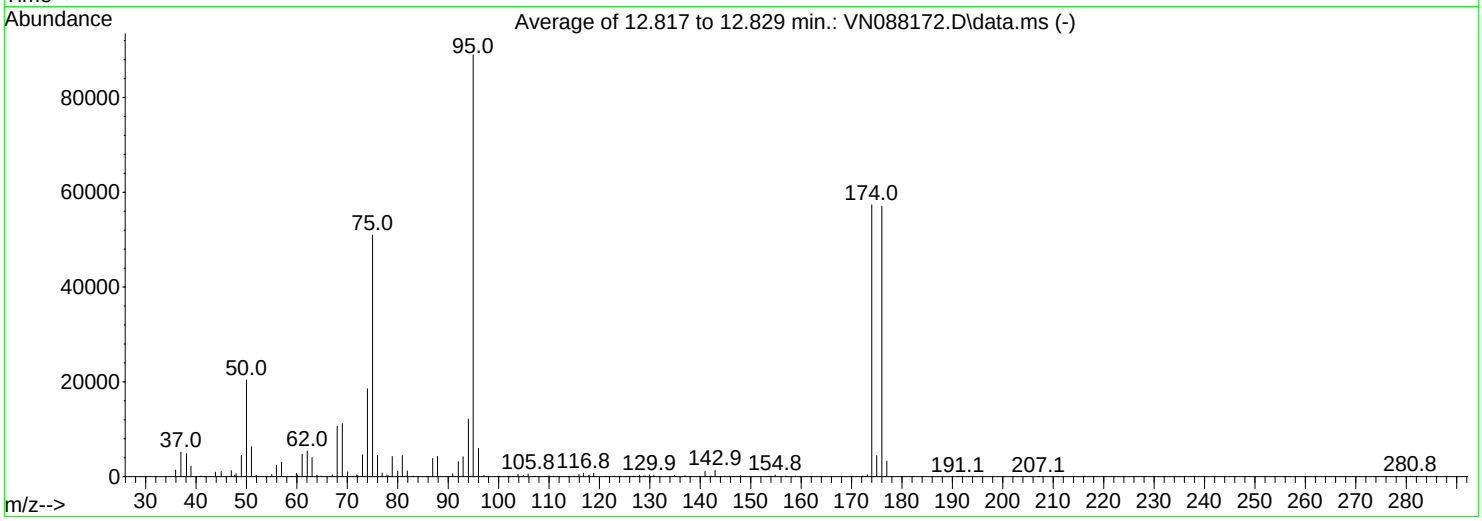
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088172.D
Acq On : 31 Oct 2025 08:08
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Title : SW846 8260
Last Update : Mon Nov 03 01:16:06 2025





AutoFind: Scans 1847, 1848, 1849; Background Corrected with Scan 1839

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.9	20392	PASS
75	95	30	60	57.3	50971	PASS
95	95	100	100	100.0	89005	PASS
96	95	5	9	6.7	5981	PASS
173	174	0.00	2	0.7	401	PASS
174	95	50	100	64.4	57349	PASS
175	174	5	9	7.7	4409	PASS
176	174	95	101	99.5	57061	PASS
177	176	5	9	5.7	3280	PASS

Average of 12.817 to 12.829 min.: VN088172.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	1379	47.70	297	60.10	367	71.05	2
37.00	5155	47.95	600	61.05	4725	71.90	41
38.10	4824	49.00	4486	62.05	5393	72.10	20
39.00	2236	50.00	20392	63.00	4065	73.00	462
40.95	134	51.00	6329	63.90	198	74.00	18531
41.70	52	51.95	287	64.10	184	75.00	50971
42.95	48	55.00	519	64.80	126	76.00	4485
43.85	956	55.95	2355	67.00	388	76.90	774
45.00	1077	56.95	3090	68.00	10657	77.85	379
46.00	60	59.00	60	69.00	11161	78.10	183
47.00	1272	59.90	662	70.05	976	78.90	4270

Instrument :
MSVOA_N
ClientSampleId :
BFB

Average of 12.817 to 12.829 min.: VN088172.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.00	1187	94.95	89005	115.95	484	128.75	127
80.90	4443	96.00	5981	116.85	757	129.05	158
81.90	1216	97.10	278	117.80	104	129.90	367
83.05	147	102.70	53	117.95	358	130.80	345
85.80	78	103.85	517	118.85	700	134.85	255
86.95	3855	104.95	308	121.30	73	136.90	175
87.90	4258	105.85	570	122.95	149	137.10	115
90.90	594	107.20	88	123.90	51	139.80	81
92.00	3152	110.00	173	125.30	59	140.95	1114
92.95	4187	110.90	111	126.80	100	141.80	68
94.00	12150	114.95	129	127.95	331	142.10	139

Average of 12.817 to 12.829 min.: VN088172.D\data.ms
BFB
Modified:subtracted

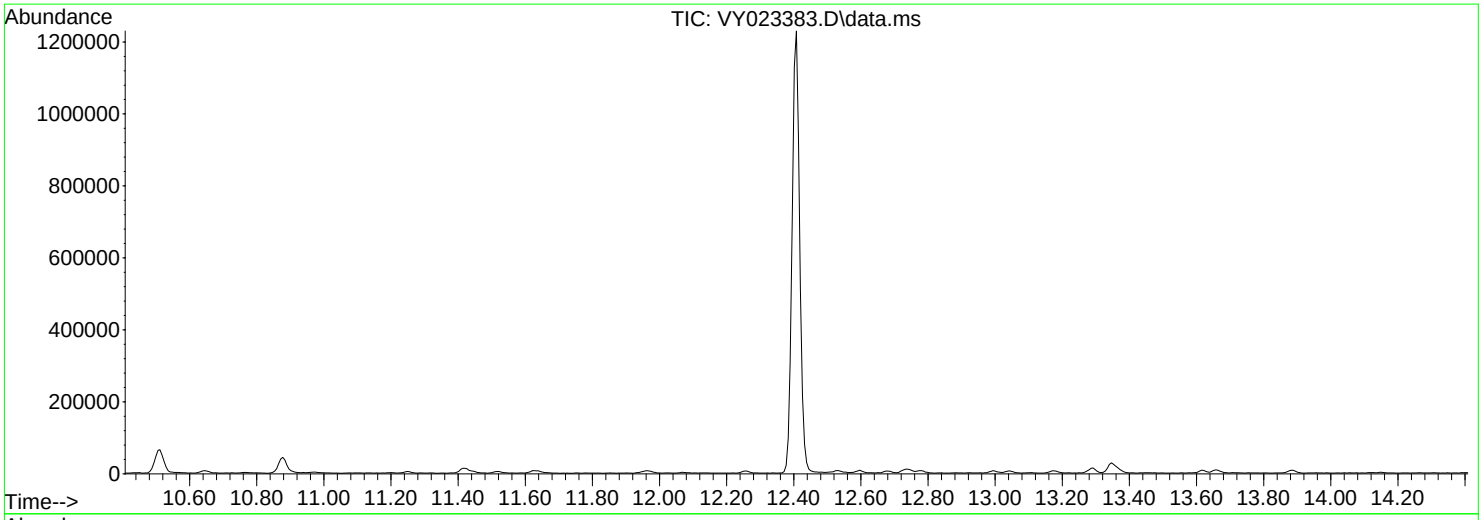
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.95	1367	157.10	72	191.10	59		
144.00	68	158.90	150	193.20	59		
144.85	144	161.00	50	207.10	9		
145.90	153	172.00	69	280.80	127		
146.80	71	172.20	130	281.20	86		
147.95	217	173.10	401	282.20	59		
148.80	86	174.00	57349				
152.00	64	175.00	4409				
153.90	52	176.00	57061				
154.85	385	177.00	3280				
156.90	152	178.00	76				

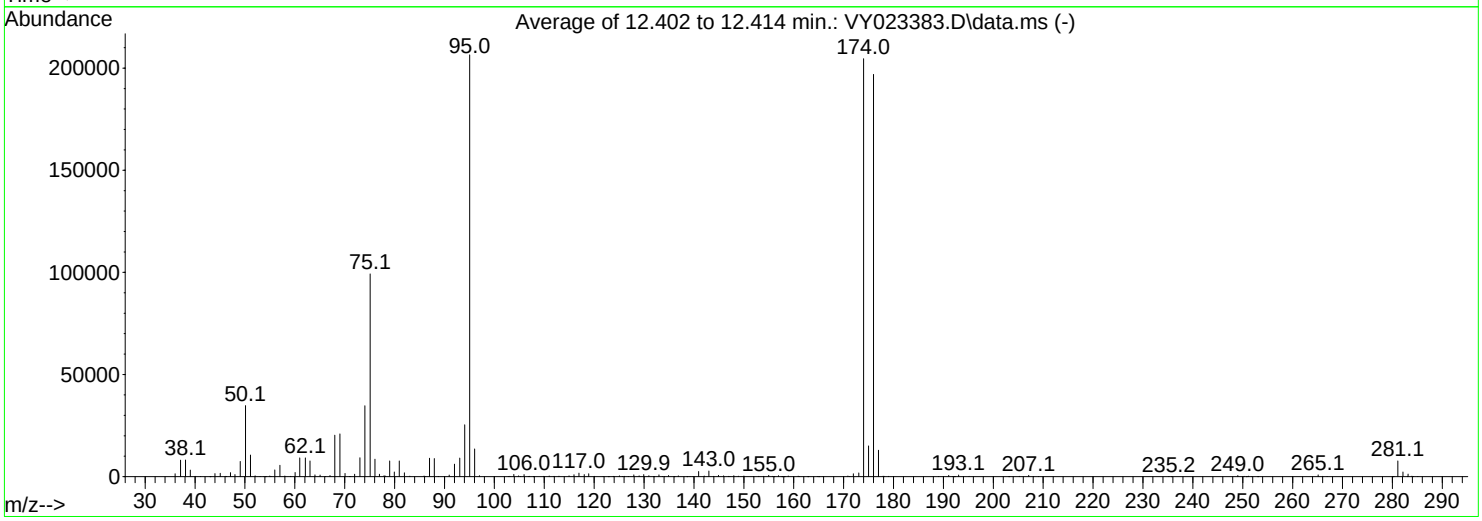
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023383.D
Acq On : 07 Oct 2025 08:43
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Title : SW846 8260
Last Update : Wed Oct 08 05:12:50 2025





AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	34816	PASS
75	95	30	60	48.1	99264	PASS
95	95	100	100	100.0	206507	PASS
96	95	5	9	6.6	13540	PASS
173	174	0.00	2	0.9	1817	PASS
174	95	50	100	99.1	204629	PASS
175	174	5	9	7.4	15059	PASS
176	174	95	101	96.2	196949	PASS
177	176	5	9	6.6	12912	PASS

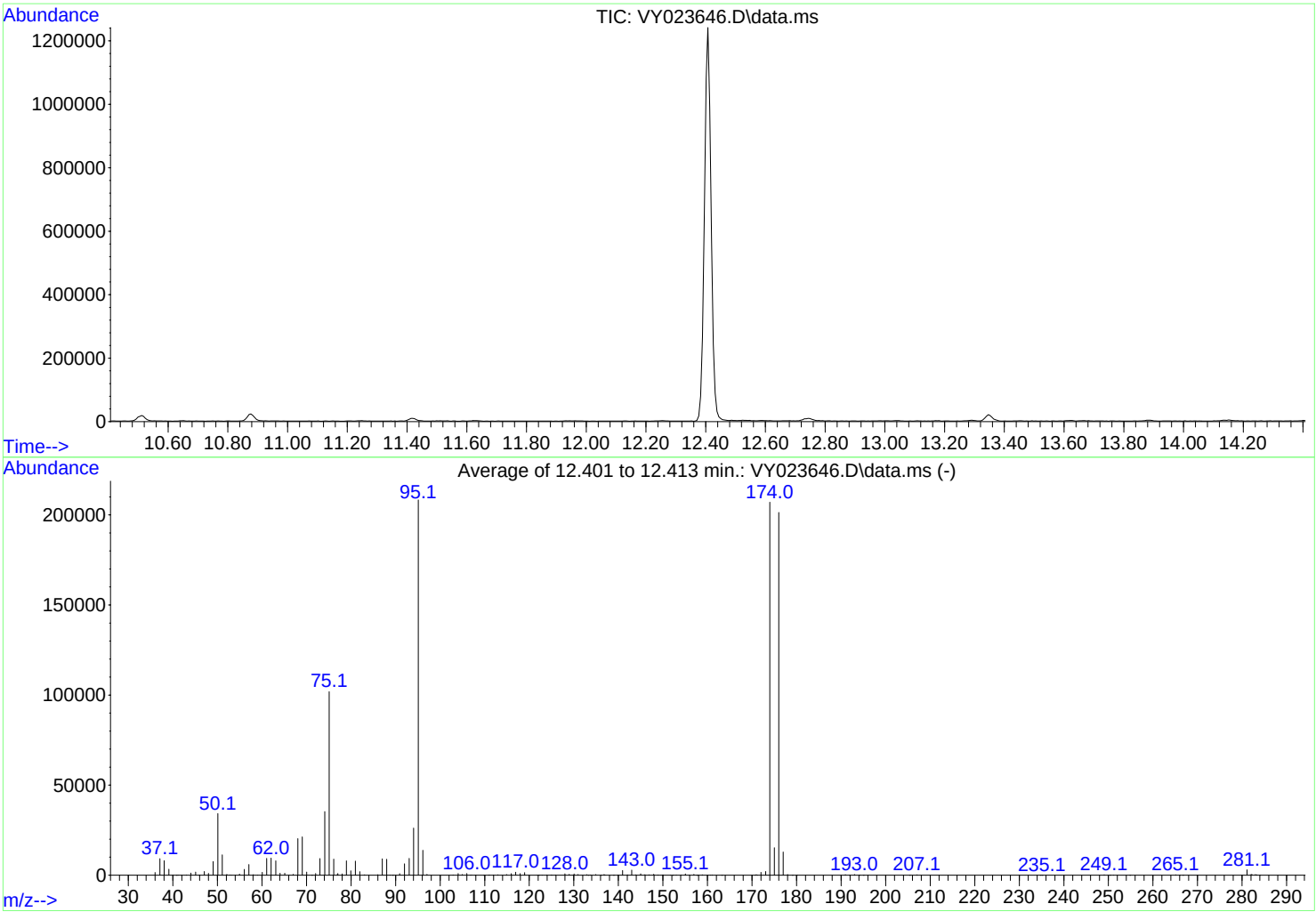
Sample Results: **VY023646.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023646.D
Acq On : 03 Nov 2025 08:54
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Title : SW846 8260
Last Update : Wed Oct 08 05:12:50 2025



AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1743

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	34221	PASS
75	95	30	60	48.9	101875	PASS
95	95	100	100	100.0	208341	PASS
96	95	5	9	6.6	13836	PASS
173	174	0.00	2	1.0	2063	PASS
174	95	50	100	99.4	207083	PASS
175	174	5	9	7.4	15224	PASS
176	174	95	101	97.2	201387	PASS
177	176	5	9	6.4	12870	PASS

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 905		Date Received:		
Client Sample ID:	VN1031MBL01		SDG No.:	Q3447	
Lab Sample ID:	VN1031MBL01	Soil Aliquot Vol: 100 uL	Matrix:	SOIL	
Analytical Method:	8260D	Level: MED	% Solid:	100	
Sample Wt/Vol:	5 g	Final Vol: 10000 uL	Test:	VOC-TCLVOA-10	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	110	U	1	110	500	ug/Kg	10/31/25 09:53	VN103125
74-87-3	Chloromethane	110	U	1	110	500	ug/Kg	10/31/25 09:53	VN103125
75-01-4	Vinyl Chloride	79.0	U	1	79.0	500	ug/Kg	10/31/25 09:53	VN103125
74-83-9	Bromomethane	110	U	1	110	500	ug/Kg	10/31/25 09:53	VN103125
75-00-3	Chloroethane	130	U	1	130	500	ug/Kg	10/31/25 09:53	VN103125
75-69-4	Trichlorofluoromethane	120	U	1	120	500	ug/Kg	10/31/25 09:53	VN103125
76-13-1	1,1,2-Trichlorotrifluoroethane	110	U	1	110	500	ug/Kg	10/31/25 09:53	VN103125
75-35-4	1,1-Dichloroethene	100	U	1	100	500	ug/Kg	10/31/25 09:53	VN103125
67-64-1	Acetone	470	U	1	470	2500	ug/Kg	10/31/25 09:53	VN103125
75-15-0	Carbon Disulfide	110	U	1	110	500	ug/Kg	10/31/25 09:53	VN103125
1634-04-4	Methyl tert-butyl Ether	73.0	U	1	73.0	500	ug/Kg	10/31/25 09:53	VN103125
79-20-9	Methyl Acetate	150	U	1	150	500	ug/Kg	10/31/25 09:53	VN103125
75-09-2	Methylene Chloride	350	U	1	350	1000	ug/Kg	10/31/25 09:53	VN103125
156-60-5	trans-1,2-Dichloroethene	86.0	U	1	86.0	500	ug/Kg	10/31/25 09:53	VN103125
75-34-3	1,1-Dichloroethane	80.0	U	1	80.0	500	ug/Kg	10/31/25 09:53	VN103125
110-82-7	Cyclohexane	79.0	U	1	79.0	500	ug/Kg	10/31/25 09:53	VN103125
78-93-3	2-Butanone	650	U	1	650	2500	ug/Kg	10/31/25 09:53	VN103125
56-23-5	Carbon Tetrachloride	97.0	U	1	97.0	500	ug/Kg	10/31/25 09:53	VN103125
156-59-2	cis-1,2-Dichloroethene	75.0	U	1	75.0	500	ug/Kg	10/31/25 09:53	VN103125
74-97-5	Bromochloromethane	120	U	1	120	500	ug/Kg	10/31/25 09:53	VN103125
67-66-3	Chloroform	84.0	U	1	84.0	500	ug/Kg	10/31/25 09:53	VN103125
71-55-6	1,1,1-Trichloroethane	93.0	U	1	93.0	500	ug/Kg	10/31/25 09:53	VN103125
108-87-2	Methylcyclohexane	91.0	U	1	91.0	500	ug/Kg	10/31/25 09:53	VN103125
71-43-2	Benzene	79.0	U	1	79.0	500	ug/Kg	10/31/25 09:53	VN103125
107-06-2	1,2-Dichloroethane	79.0	U	1	79.0	500	ug/Kg	10/31/25 09:53	VN103125
79-01-6	Trichloroethene	81.0	U	1	81.0	500	ug/Kg	10/31/25 09:53	VN103125
78-87-5	1,2-Dichloropropane	91.0	U	1	91.0	500	ug/Kg	10/31/25 09:53	VN103125
75-27-4	Bromodichloromethane	78.0	U	1	78.0	500	ug/Kg	10/31/25 09:53	VN103125
108-10-1	4-Methyl-2-Pentanone	360	U	1	360	2500	ug/Kg	10/31/25 09:53	VN103125
108-88-3	Toluene	78.0	U	1	78.0	500	ug/Kg	10/31/25 09:53	VN103125
10061-02-6	t-1,3-Dichloropropene	65.0	U	1	65.0	500	ug/Kg	10/31/25 09:53	VN103125
10061-01-5	cis-1,3-Dichloropropene	62.0	U	1	62.0	500	ug/Kg	10/31/25 09:53	VN103125
79-00-5	1,1,2-Trichloroethane	92.0	U	1	92.0	500	ug/Kg	10/31/25 09:53	VN103125
591-78-6	2-Hexanone	370	U	1	370	2500	ug/Kg	10/31/25 09:53	VN103125
124-48-1	Dibromochloromethane	87.0	U	1	87.0	500	ug/Kg	10/31/25 09:53	VN103125
106-93-4	1,2-Dibromoethane	88.0	U	1	88.0	500	ug/Kg	10/31/25 09:53	VN103125
127-18-4	Tetrachloroethene	110	U	1	110	500	ug/Kg	10/31/25 09:53	VN103125
108-90-7	Chlorobenzene	91.0	U	1	91.0	500	ug/Kg	10/31/25 09:53	VN103125
100-41-4	Ethyl Benzene	67.0	U	1	67.0	500	ug/Kg	10/31/25 09:53	VN103125
179601-23-1	m/p-Xylenes	120	U	1	120	1000	ug/Kg	10/31/25 09:53	VN103125
95-47-6	o-Xylene	82.0	U	1	82.0	500	ug/Kg	10/31/25 09:53	VN103125
100-42-5	Styrene	71.0	U	1	71.0	500	ug/Kg	10/31/25 09:53	VN103125
75-25-2	Bromoform	86.0	U	1	86.0	500	ug/Kg	10/31/25 09:53	VN103125

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 905		Date Received:		
Client Sample ID:	VN1031MBL01		SDG No.:	Q3447	
Lab Sample ID:	VN1031MBL01	Soil Aliquot Vol: 100 uL	Matrix:	SOIL	
Analytical Method:	8260D	Level: MED	% Solid:	100	
Sample Wt/Vol:	5 g	Final Vol: 10000 uL	Test:	VOC-TCLVOA-10	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	78.0	U	1	78.0	500	ug/Kg	10/31/25 09:53	VN103125
79-34-5	1,1,2,2-Tetrachloroethane	120	U	1	120	500	ug/Kg	10/31/25 09:53	VN103125
541-73-1	1,3-Dichlorobenzene	170	U	1	170	500	ug/Kg	10/31/25 09:53	VN103125
106-46-7	1,4-Dichlorobenzene	160	U	1	160	500	ug/Kg	10/31/25 09:53	VN103125
95-50-1	1,2-Dichlorobenzene	150	U	1	150	500	ug/Kg	10/31/25 09:53	VN103125
96-12-8	1,2-Dibromo-3-Chloropropane	180	U	1	180	500	ug/Kg	10/31/25 09:53	VN103125
120-82-1	1,2,4-Trichlorobenzene	300	U	1	300	500	ug/Kg	10/31/25 09:53	VN103125
87-61-6	1,2,3-Trichlorobenzene	320	U	1	320	500	ug/Kg	10/31/25 09:53	VN103125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	59.3			63 - 155	119%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.4			70 - 134	103%	SPK: 50		
2037-26-5	Toluene-d8	49.7			74 - 123	99%	SPK: 50		
460-00-4	4-Bromofluorobenzene	55.0			17 - 146	110%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	249000							
540-36-3	1,4-Difluorobenzene	563000							
3114-55-4	Chlorobenzene-d5	537000							
3855-82-1	1,4-Dichlorobenzene-d4	259000							

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\VN103125\
Data File : VN088174.D
Acq On : 31 Oct 2025 09:53
Operator : JC\MD
Sample : VN1031MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBL01

Quant Time: Nov 01 00:27:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	249193	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	562998	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	537203	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	258761	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	255484	59.290	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 118.580%			
35) Dibromofluoromethane	8.147	113	194547	51.437	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.880%			
50) Toluene-d8	10.547	98	724144	49.689	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.380%			
62) 4-Bromofluorobenzene	12.829	95	283275	55.038	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.080%			

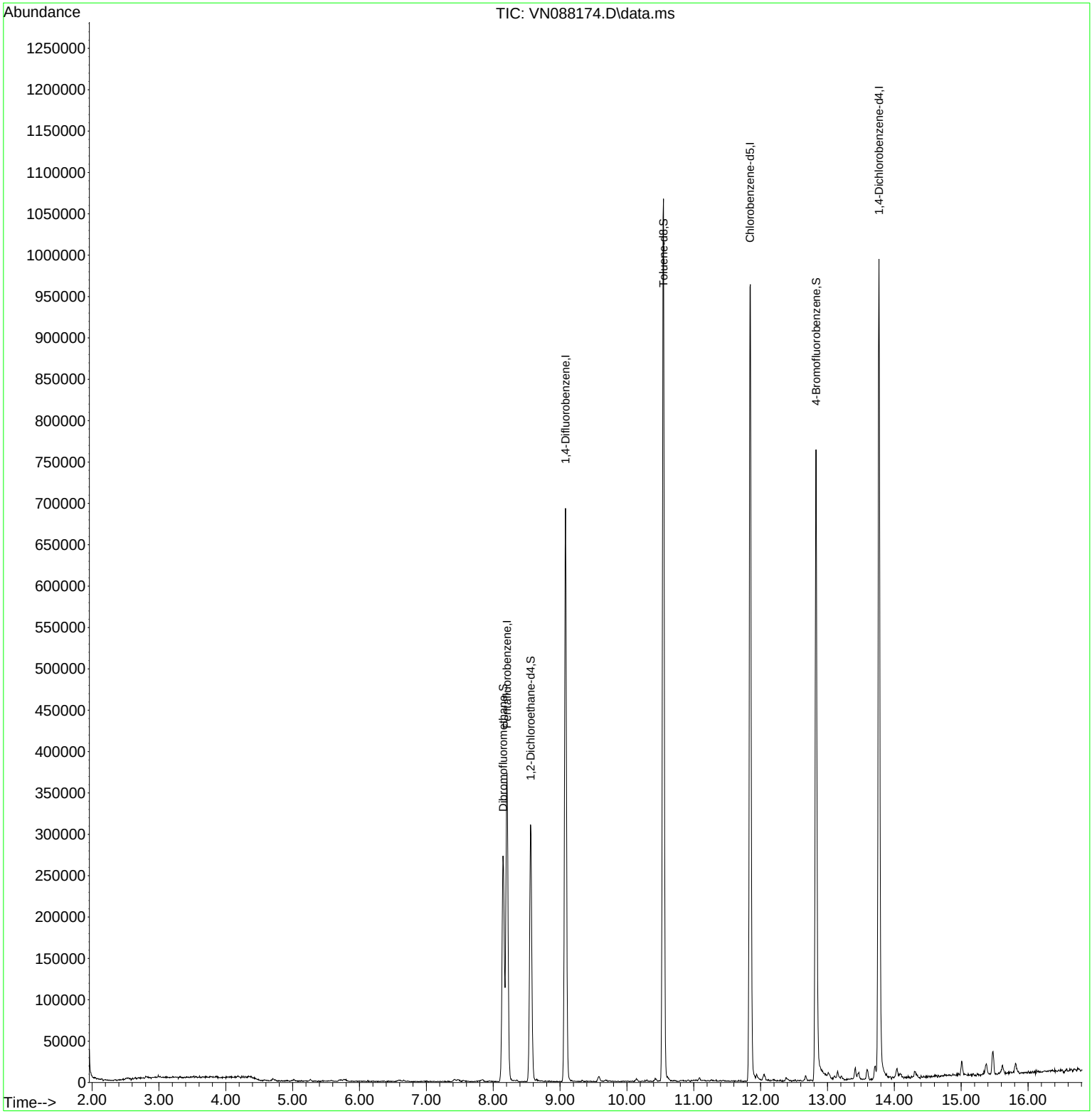
Target Compounds Qvalue

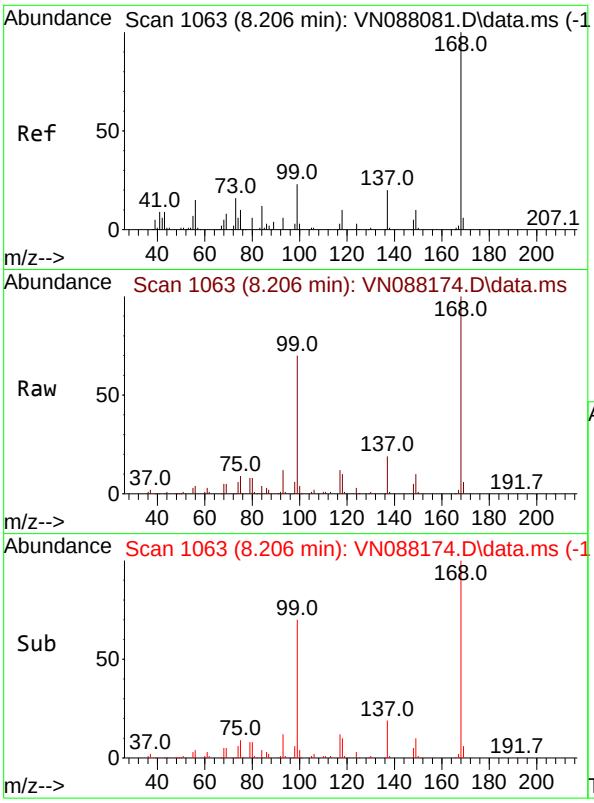
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088174.D
Acq On : 31 Oct 2025 09:53
Operator : JC\MD
Sample : VN1031MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBL01

Quant Time: Nov 01 00:27:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration



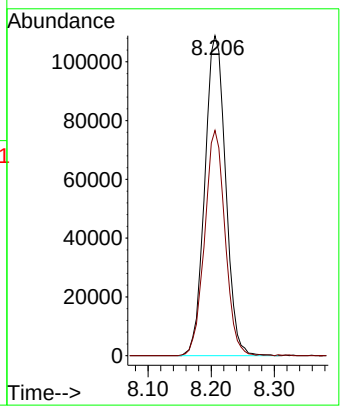


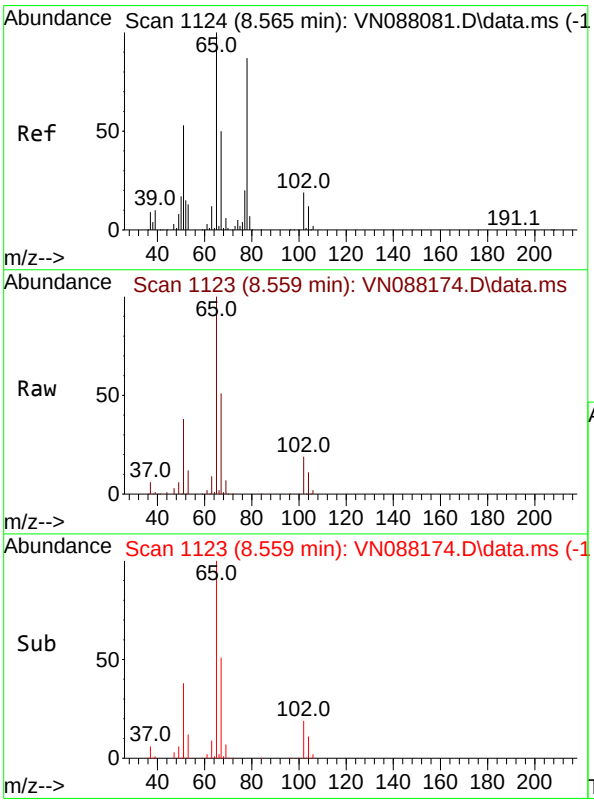
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088174.D
Acq: 31 Oct 2025 09:53

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBL01

Tgt Ion:168 Resp: 249193

Ion	Ratio	Lower	Upper
168	100		
99	70.4	57.2	85.8

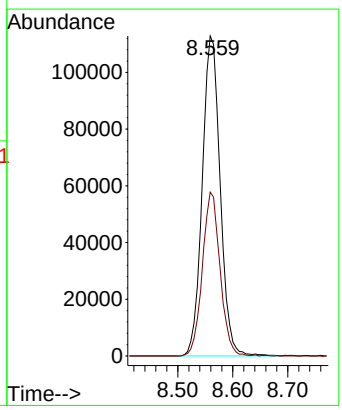


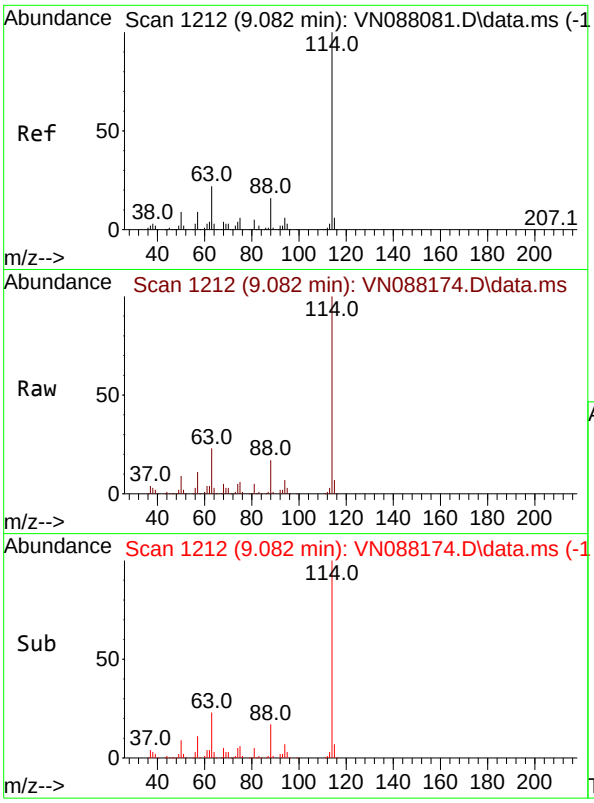


#33
1,2-Dichloroethane-d4
Concen: 59.290 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088174.D
Acq: 31 Oct 2025 09:53

Tgt Ion: 65 Resp: 255484

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	100.0



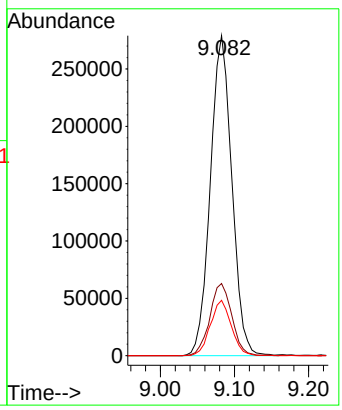


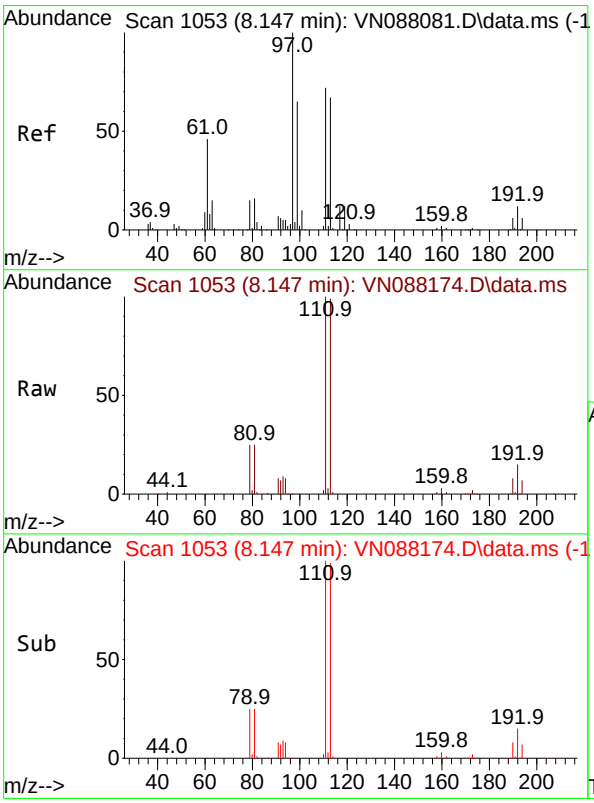
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088174.D
Acq: 31 Oct 2025 09:53

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBL01

Tgt Ion:114 Resp: 562998

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	45.2
88	17.3	0.0	33.4

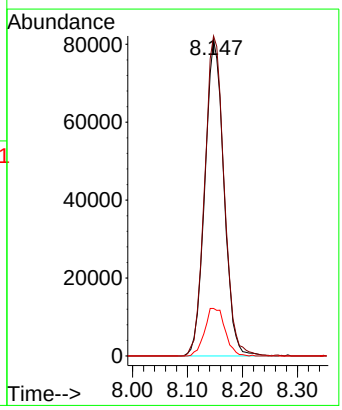


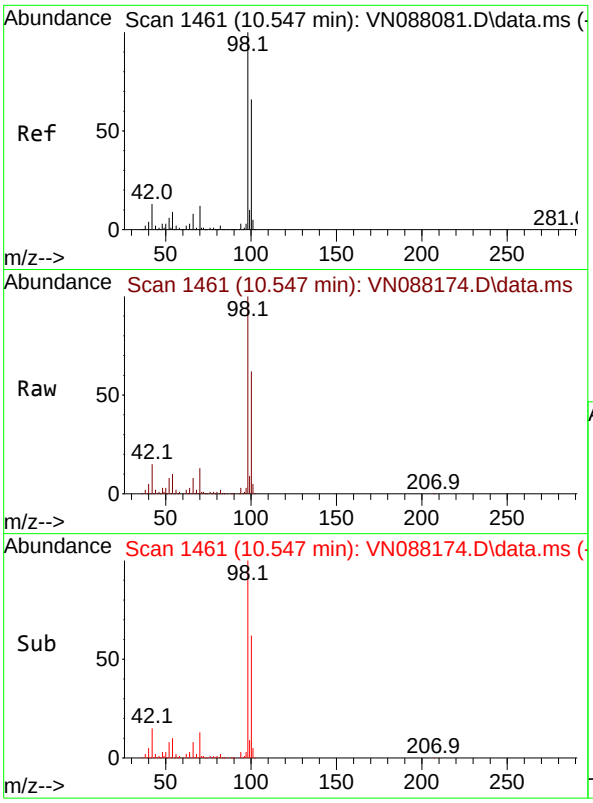


#35
Dibromofluoromethane
Concen: 51.437 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088174.D
Acq: 31 Oct 2025 09:53

Tgt Ion:113 Resp: 194547

Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.8	124.2
192	16.2	12.8	19.2



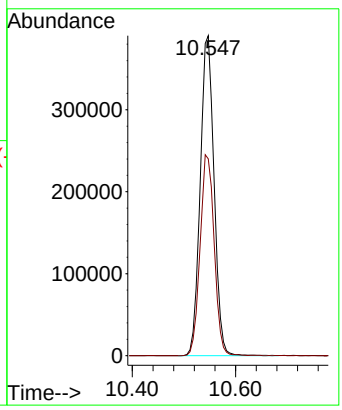


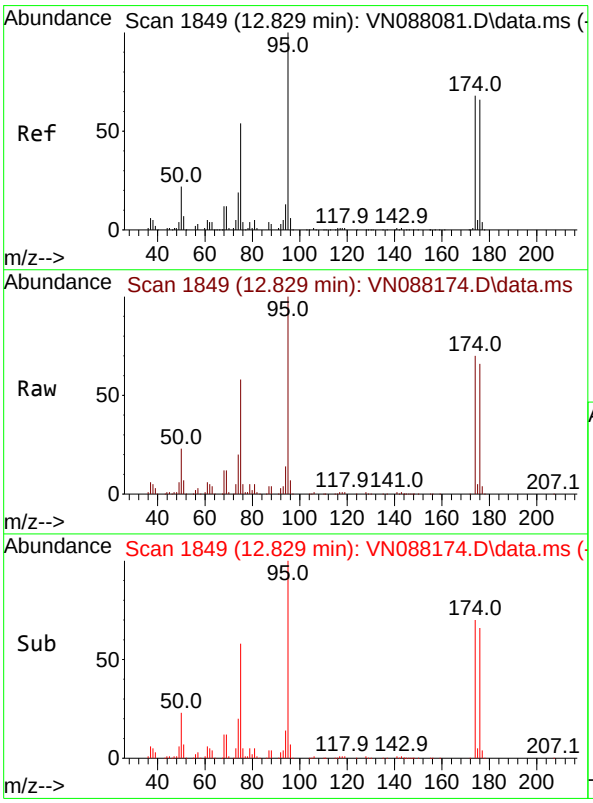
#50
Toluene-d8
Concen: 49.689 ug/l
RT: 10.547 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN088174.D
Acq: 31 Oct 2025 09:53

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBL01

Tgt Ion: 98 Resp: 724144

Ion	Ratio	Lower	Upper
98	100		
100	64.0	52.8	79.2

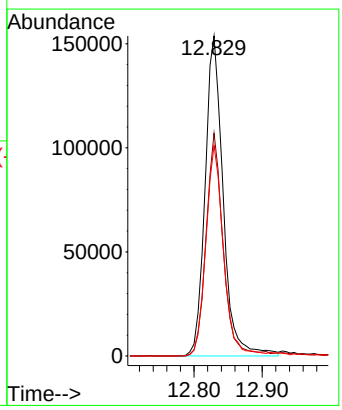


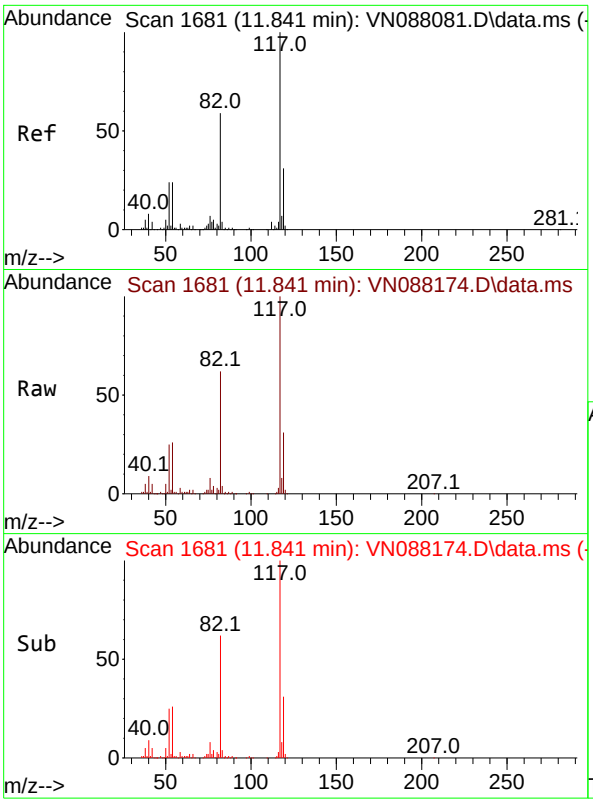


#62
4-Bromofluorobenzene
Concen: 55.038 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088174.D
Acq: 31 Oct 2025 09:53

Tgt Ion: 95 Resp: 283275

Ion	Ratio	Lower	Upper
95	100		
174	65.9	0.0	138.4
176	64.1	0.0	132.6



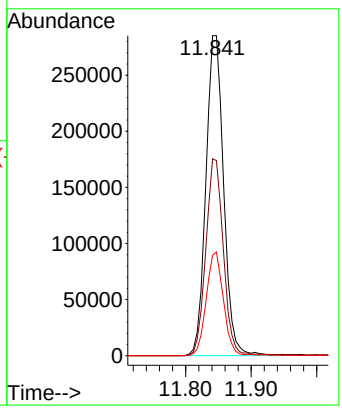


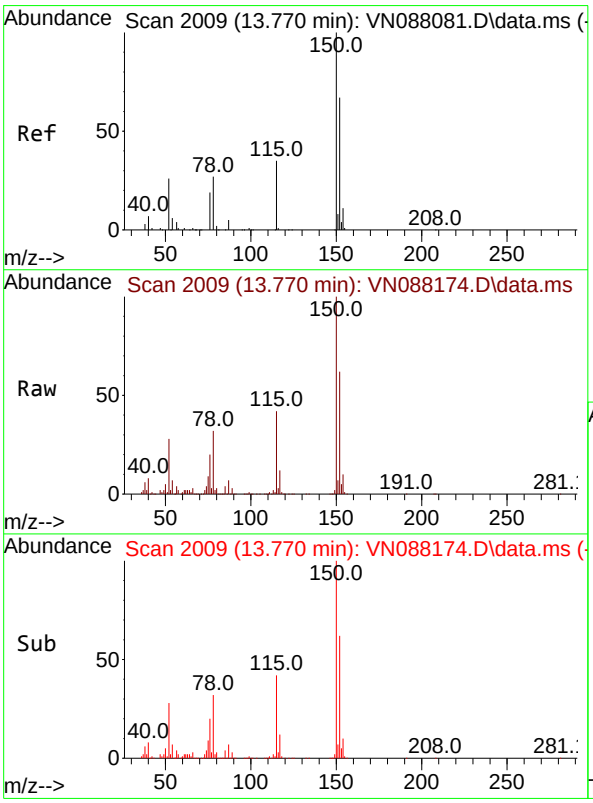
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088174.D
Acq: 31 Oct 2025 09:53

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBL01

Tgt Ion:117 Resp: 537203

Ion	Ratio	Lower	Upper
117	100		
82	61.5	47.4	71.2
119	31.4	24.3	36.5

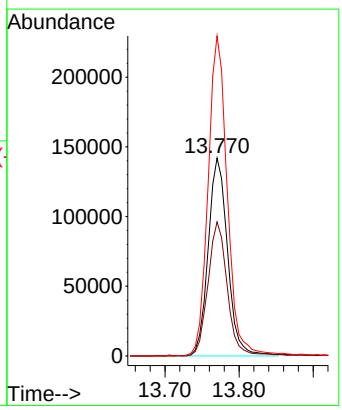




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088174.D
Acq: 31 Oct 2025 09:53

Tgt Ion:152 Resp: 258761

Ion	Ratio	Lower	Upper
152	100		
115	67.4	32.3	96.8
150	160.0	0.0	351.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088174.D
Acq On : 31 Oct 2025 09:53
Operator : JC\MD
Sample : VN1031MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Title : SW846 8260

Signal : TIC: VN088174.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	8.147	1042	1053	1058	rBV2	273192	664807	33.36%	6.107%
2	8.206	1058	1063	1075	rVB	371901	835611	41.93%	7.676%
3	8.559	1114	1123	1135	rBV	310489	702602	35.25%	6.454%
4	9.082	1203	1212	1225	rBV	692950	1412710	70.89%	12.977%
5	10.547	1452	1461	1470	rBV	1066270	1992935	100.00%	18.307%
6	11.847	1674	1682	1695	rBV	962881	1811843	90.91%	16.644%
7	12.829	1841	1849	1862	rBV	763502	1406779	70.59%	12.923%
8	13.417	1943	1949	1953	rBV2	13620	22426	1.13%	0.206%
9	13.594	1975	1979	1986	rVB4	12804	24732	1.24%	0.227%
10	13.717	1992	2000	2002	rBV3	16534	32905	1.65%	0.302%
11	13.770	2002	2009	2026	rVB	988684	1801805	90.41%	16.552%
12	14.041	2047	2055	2060	rBV2	11551	25175	1.26%	0.231%
13	15.006	2215	2219	2225	rBV4	17117	28636	1.44%	0.263%
14	15.376	2277	2282	2289	rVB10	12508	24874	1.25%	0.228%
15	15.476	2293	2299	2305	rVB4	27754	52144	2.62%	0.479%
16	15.617	2314	2323	2330	rVB2	10810	24330	1.22%	0.223%
17	15.811	2352	2356	2363	rBV6	11126	21640	1.09%	0.199%

Sum of corrected areas: 10885954

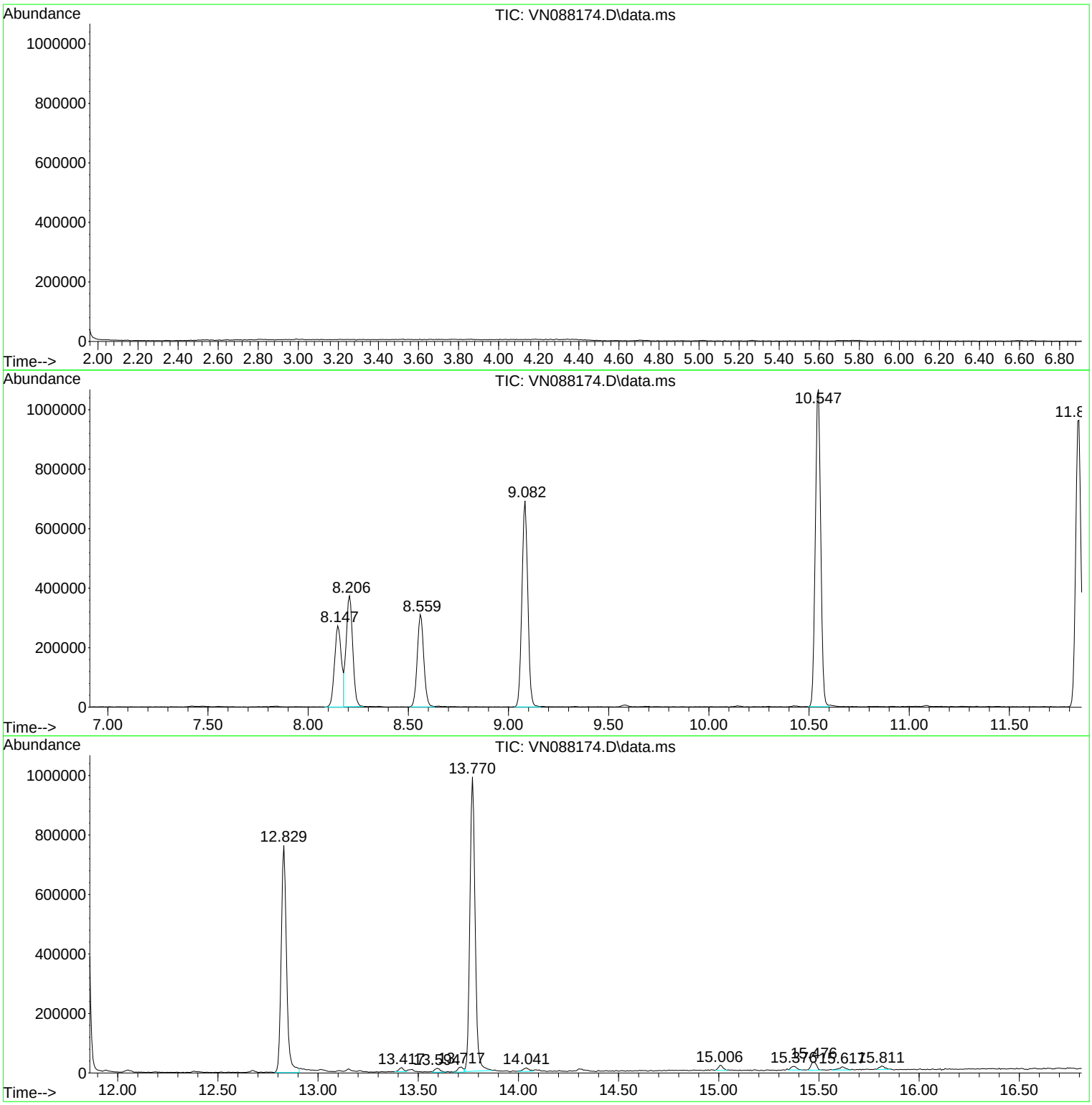
Sample Results: **VN088174.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088174.D
Acq On : 31 Oct 2025 09:53
Operator : JC\MD
Sample : VN1031MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088174.D
Acq On : 31 Oct 2025 09:53
Operator : JC\MD
Sample : VN1031MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088174.D
Acq On : 31 Oct 2025 09:53
Operator : JC\MD
Sample : VN1031MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 905		Date Received:		
Client Sample ID:	VY1103SBL01		SDG No.:	Q3447	
Lab Sample ID:	VY1103SBL01		Matrix:	SOIL	
Analytical Method:	8260D	Level: LOW	% Solid:	100	
Sample Wt/Vol:	5 g	Final Vol: 5000 uL	Test:	VOC-TCLVOA-10	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1.10	U	1	1.10	5.00	ug/Kg	11/03/25 10:38	VY110325
74-87-3	Chloromethane	1.10	U	1	1.10	5.00	ug/Kg	11/03/25 10:38	VY110325
75-01-4	Vinyl Chloride	0.79	U	1	0.79	5.00	ug/Kg	11/03/25 10:38	VY110325
74-83-9	Bromomethane	1.10	U	1	1.10	5.00	ug/Kg	11/03/25 10:38	VY110325
75-00-3	Chloroethane	1.30	U	1	1.30	5.00	ug/Kg	11/03/25 10:38	VY110325
75-69-4	Trichlorofluoromethane	1.20	U	1	1.20	5.00	ug/Kg	11/03/25 10:38	VY110325
76-13-1	1,1,2-Trichlorotrifluoroethane	1.10	U	1	1.10	5.00	ug/Kg	11/03/25 10:38	VY110325
75-35-4	1,1-Dichloroethene	1.00	U	1	1.00	5.00	ug/Kg	11/03/25 10:38	VY110325
67-64-1	Acetone	4.70	U	1	4.70	25.0	ug/Kg	11/03/25 10:38	VY110325
75-15-0	Carbon Disulfide	1.10	U	1	1.10	5.00	ug/Kg	11/03/25 10:38	VY110325
1634-04-4	Methyl tert-butyl Ether	0.73	U	1	0.73	5.00	ug/Kg	11/03/25 10:38	VY110325
79-20-9	Methyl Acetate	1.50	U	1	1.50	5.00	ug/Kg	11/03/25 10:38	VY110325
75-09-2	Methylene Chloride	3.50	U	1	3.50	10.0	ug/Kg	11/03/25 10:38	VY110325
156-60-5	trans-1,2-Dichloroethene	0.86	U	1	0.86	5.00	ug/Kg	11/03/25 10:38	VY110325
75-34-3	1,1-Dichloroethane	0.80	U	1	0.80	5.00	ug/Kg	11/03/25 10:38	VY110325
110-82-7	Cyclohexane	0.79	U	1	0.79	5.00	ug/Kg	11/03/25 10:38	VY110325
78-93-3	2-Butanone	6.50	U	1	6.50	25.0	ug/Kg	11/03/25 10:38	VY110325
56-23-5	Carbon Tetrachloride	0.97	U	1	0.97	5.00	ug/Kg	11/03/25 10:38	VY110325
156-59-2	cis-1,2-Dichloroethene	0.75	U	1	0.75	5.00	ug/Kg	11/03/25 10:38	VY110325
74-97-5	Bromochloromethane	1.20	U	1	1.20	5.00	ug/Kg	11/03/25 10:38	VY110325
67-66-3	Chloroform	0.84	U	1	0.84	5.00	ug/Kg	11/03/25 10:38	VY110325
71-55-6	1,1,1-Trichloroethane	0.93	U	1	0.93	5.00	ug/Kg	11/03/25 10:38	VY110325
108-87-2	Methylcyclohexane	0.91	U	1	0.91	5.00	ug/Kg	11/03/25 10:38	VY110325
71-43-2	Benzene	0.79	U	1	0.79	5.00	ug/Kg	11/03/25 10:38	VY110325
107-06-2	1,2-Dichloroethane	0.79	U	1	0.79	5.00	ug/Kg	11/03/25 10:38	VY110325
79-01-6	Trichloroethene	0.81	U	1	0.81	5.00	ug/Kg	11/03/25 10:38	VY110325
78-87-5	1,2-Dichloropropane	0.91	U	1	0.91	5.00	ug/Kg	11/03/25 10:38	VY110325
75-27-4	Bromodichloromethane	0.78	U	1	0.78	5.00	ug/Kg	11/03/25 10:38	VY110325
108-10-1	4-Methyl-2-Pentanone	3.60	U	1	3.60	25.0	ug/Kg	11/03/25 10:38	VY110325
108-88-3	Toluene	0.78	U	1	0.78	5.00	ug/Kg	11/03/25 10:38	VY110325
10061-02-6	t-1,3-Dichloropropene	0.65	U	1	0.65	5.00	ug/Kg	11/03/25 10:38	VY110325
10061-01-5	cis-1,3-Dichloropropene	0.62	U	1	0.62	5.00	ug/Kg	11/03/25 10:38	VY110325
79-00-5	1,1,2-Trichloroethane	0.92	U	1	0.92	5.00	ug/Kg	11/03/25 10:38	VY110325
591-78-6	2-Hexanone	3.70	U	1	3.70	25.0	ug/Kg	11/03/25 10:38	VY110325
124-48-1	Dibromochloromethane	0.87	U	1	0.87	5.00	ug/Kg	11/03/25 10:38	VY110325
106-93-4	1,2-Dibromoethane	0.88	U	1	0.88	5.00	ug/Kg	11/03/25 10:38	VY110325
127-18-4	Tetrachloroethene	1.10	U	1	1.10	5.00	ug/Kg	11/03/25 10:38	VY110325
108-90-7	Chlorobenzene	0.91	U	1	0.91	5.00	ug/Kg	11/03/25 10:38	VY110325
100-41-4	Ethyl Benzene	0.67	U	1	0.67	5.00	ug/Kg	11/03/25 10:38	VY110325
179601-23-1	m/p-Xylenes	1.20	U	1	1.20	10.0	ug/Kg	11/03/25 10:38	VY110325
95-47-6	o-Xylene	0.82	U	1	0.82	5.00	ug/Kg	11/03/25 10:38	VY110325
100-42-5	Styrene	0.71	U	1	0.71	5.00	ug/Kg	11/03/25 10:38	VY110325
75-25-2	Bromoform	0.86	U	1	0.86	5.00	ug/Kg	11/03/25 10:38	VY110325

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	VY1103SBL01			SDG No.:	Q3447
Lab Sample ID:	VY1103SBL01			Matrix:	SOIL
Analytical Method:	8260D	Level:	LOW	% Solid:	100
Sample Wt/Vol:	5 g	Final Vol:	5000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	0.78	U	1	0.78	5.00	ug/Kg	11/03/25 10:38	VY110325
79-34-5	1,1,2,2-Tetrachloroethane	1.20	U	1	1.20	5.00	ug/Kg	11/03/25 10:38	VY110325
541-73-1	1,3-Dichlorobenzene	1.70	U	1	1.70	5.00	ug/Kg	11/03/25 10:38	VY110325
106-46-7	1,4-Dichlorobenzene	1.60	U	1	1.60	5.00	ug/Kg	11/03/25 10:38	VY110325
95-50-1	1,2-Dichlorobenzene	1.50	U	1	1.50	5.00	ug/Kg	11/03/25 10:38	VY110325
96-12-8	1,2-Dibromo-3-Chloropropane	1.80	U	1	1.80	5.00	ug/Kg	11/03/25 10:38	VY110325
120-82-1	1,2,4-Trichlorobenzene	3.00	U	1	3.00	5.00	ug/Kg	11/03/25 10:38	VY110325
87-61-6	1,2,3-Trichlorobenzene	3.20	U	1	3.20	5.00	ug/Kg	11/03/25 10:38	VY110325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	58.3			63 - 155	117%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.6			70 - 134	103%	SPK: 50		
2037-26-5	Toluene-d8	49.5			74 - 123	99%	SPK: 50		
460-00-4	4-Bromofluorobenzene	43.2			17 - 146	86%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	760000							
540-36-3	1,4-Difluorobenzene	1280000							
3114-55-4	Chlorobenzene-d5	1090000							
3855-82-1	1,4-Dichlorobenzene-d4	440000							

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_Y\Data\VY110325\
Data File : VY023648.D
Acq On : 03 Nov 2025 10:38
Operator : SY/MD
Sample : VY1103SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBL01

Quant Time: Nov 04 01:29:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

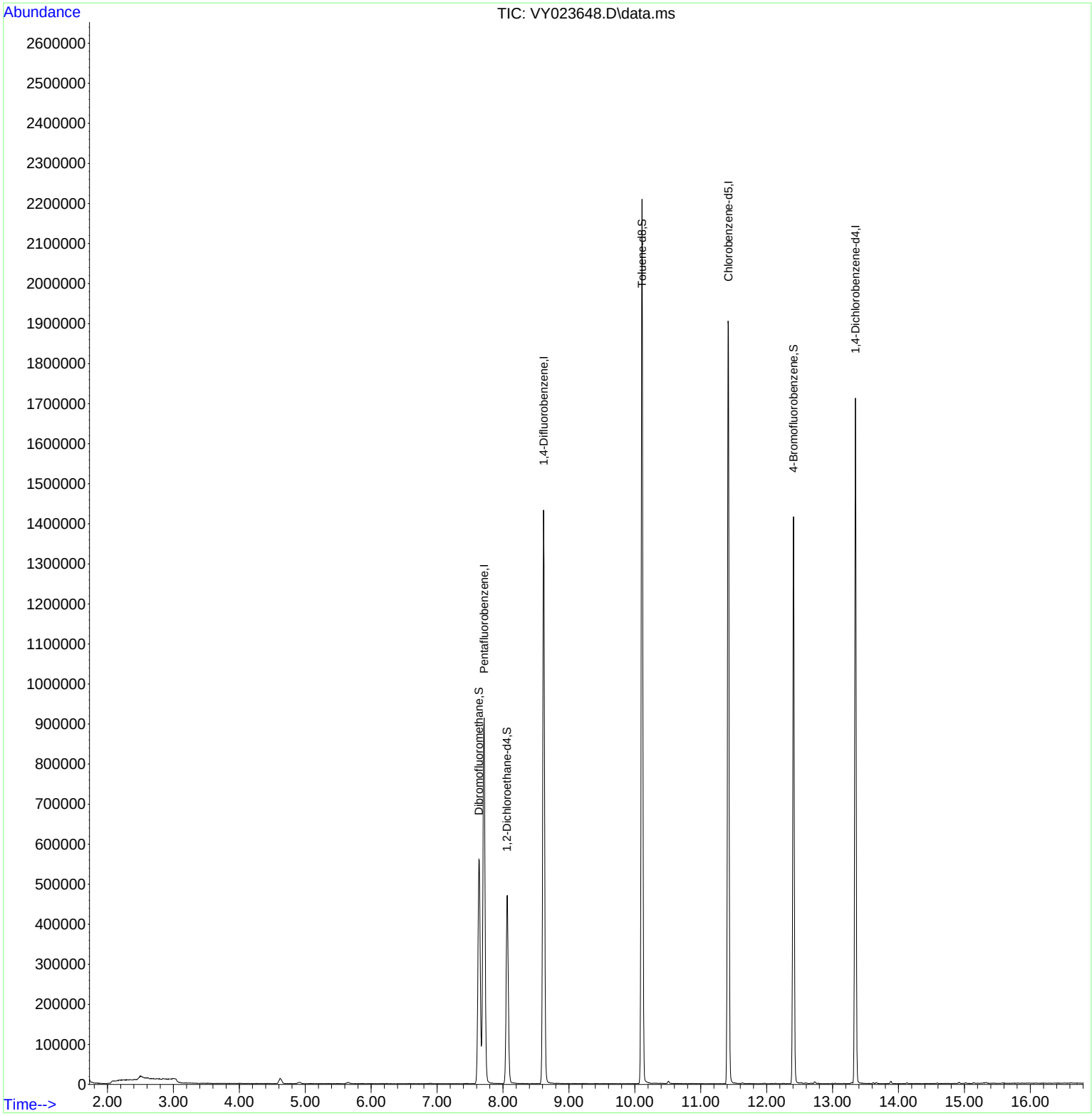
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	759655	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1277366	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1087348	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	440158	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	370500	58.325	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 116.640%			
35) Dibromofluoromethane	7.634	113	405302	51.639	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.280%			
50) Toluene-d8	10.109	98	1446129	49.475	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.940%			
62) 4-Bromofluorobenzene	12.408	95	416804	43.191	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 86.380%			
Target Compounds						Qvalue

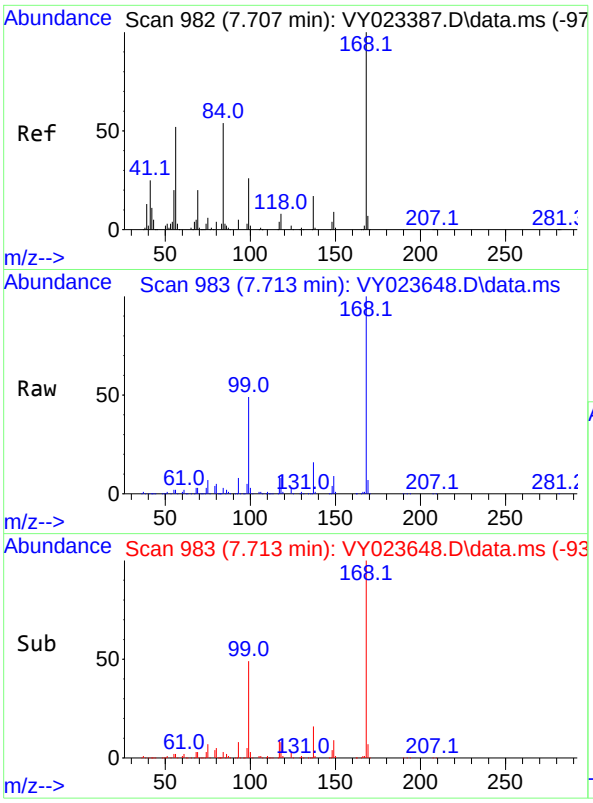
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023648.D
Acq On : 03 Nov 2025 10:38
Operator : SY/MD
Sample : VY1103SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBL01

Quant Time: Nov 04 01:29:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration



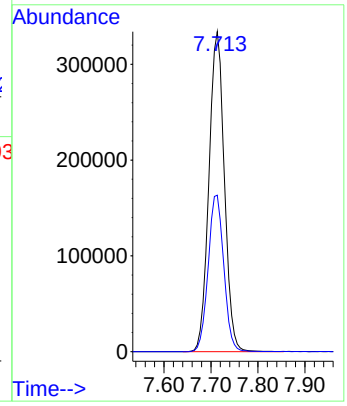


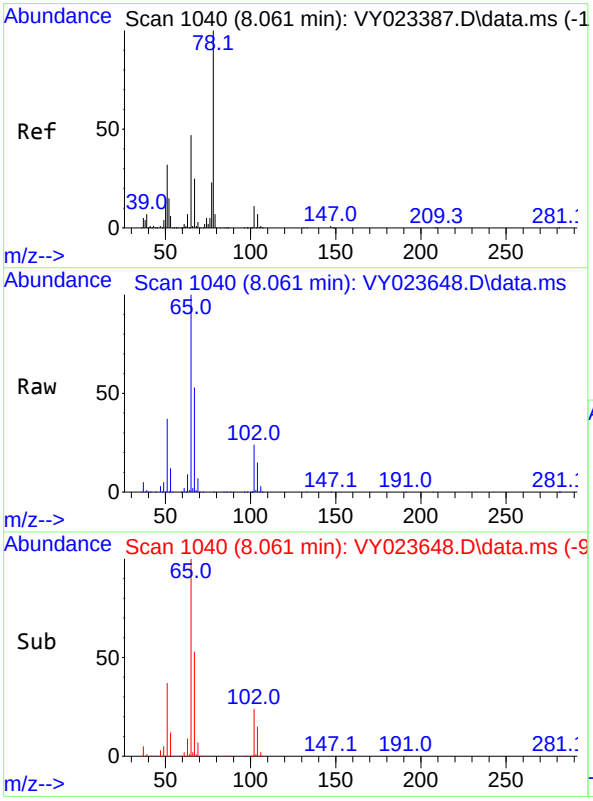
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023648.D
Acq: 03 Nov 2025 10:38

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBL01

Tgt Ion:168 Resp: 759655

Ion	Ratio	Lower	Upper
168	100		
99	48.9	39.7	59.5

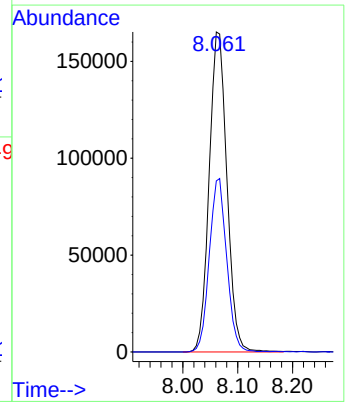


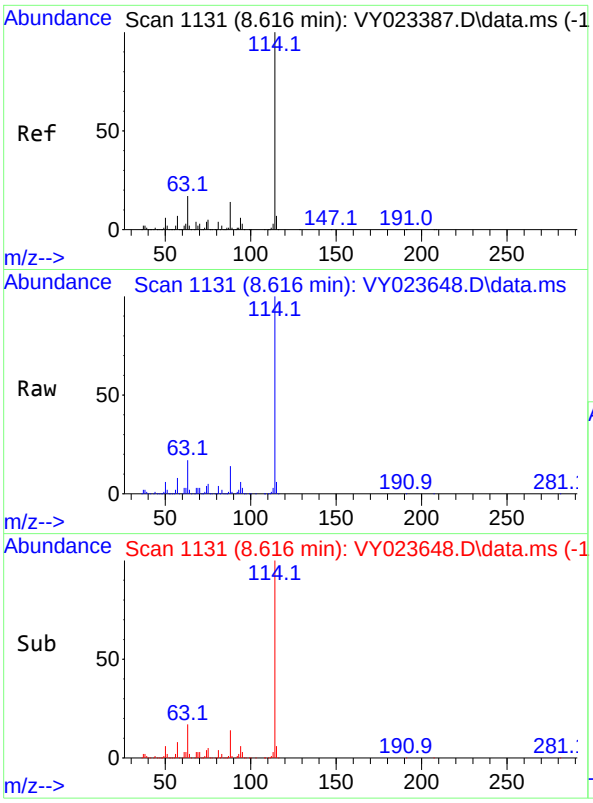


#33
1,2-Dichloroethane-d4
Concen: 58.325 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023648.D
Acq: 03 Nov 2025 10:38

Tgt Ion: 65 Resp: 370500

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	105.8



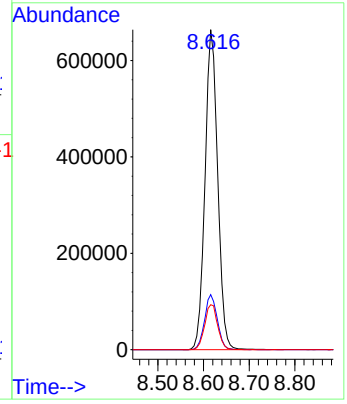


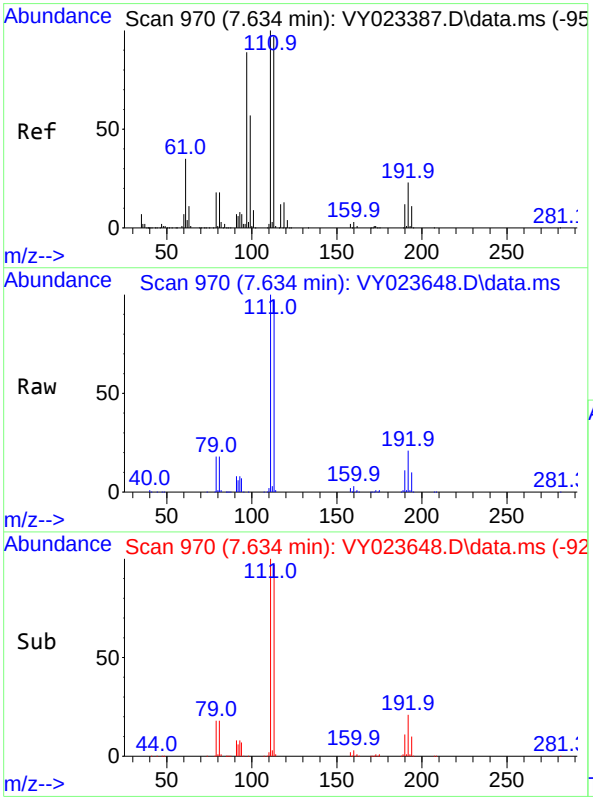
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023648.D
Acq: 03 Nov 2025 10:38

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBL01

Tgt Ion:114 Resp: 1277366

Ion	Ratio	Lower	Upper
114	100		
63	17.2	0.0	34.2
88	14.0	0.0	28.4

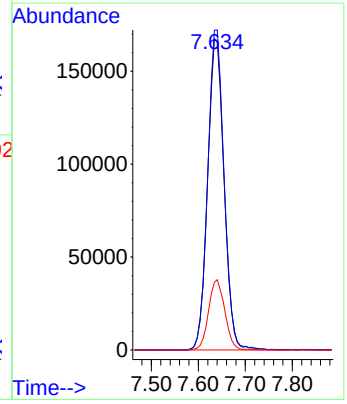


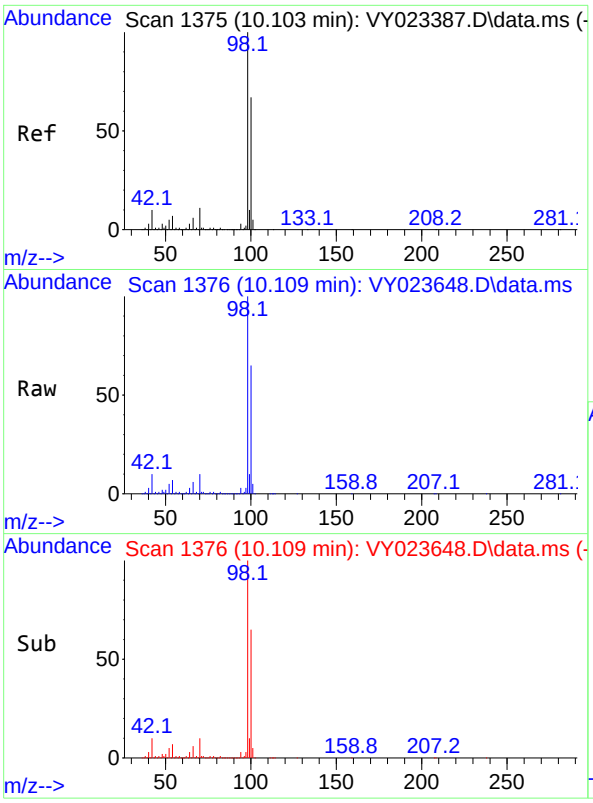


#35
Dibromofluoromethane
Concen: 51.639 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY023648.D
Acq: 03 Nov 2025 10:38

Tgt Ion:113 Resp: 405302

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.8	122.6
192	22.4	18.0	27.0



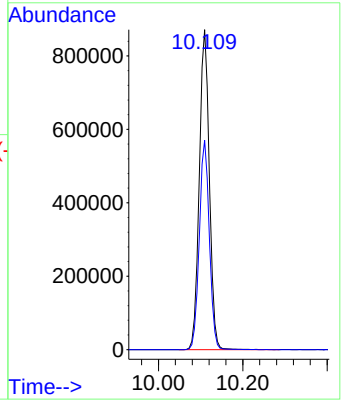


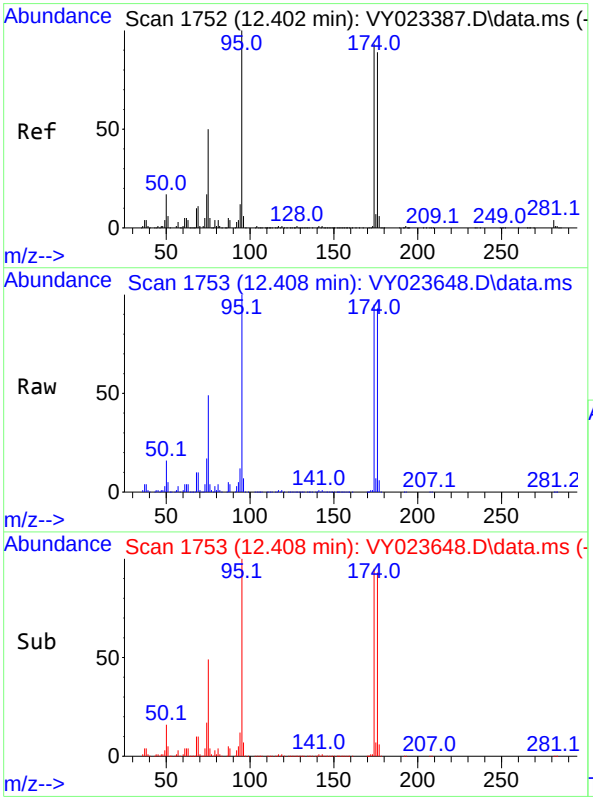
#50
Toluene-d8
Concen: 49.475 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023648.D
Acq: 03 Nov 2025 10:38

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBL01

Tgt Ion: 98 Resp: 1446129

Ion	Ratio	Lower	Upper
98	100		
100	65.2	53.0	79.4

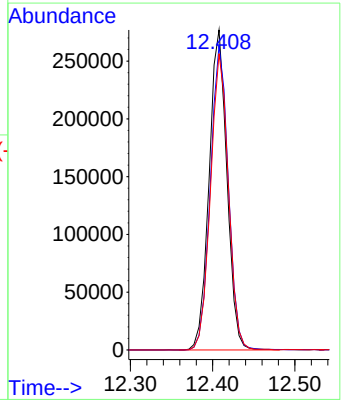


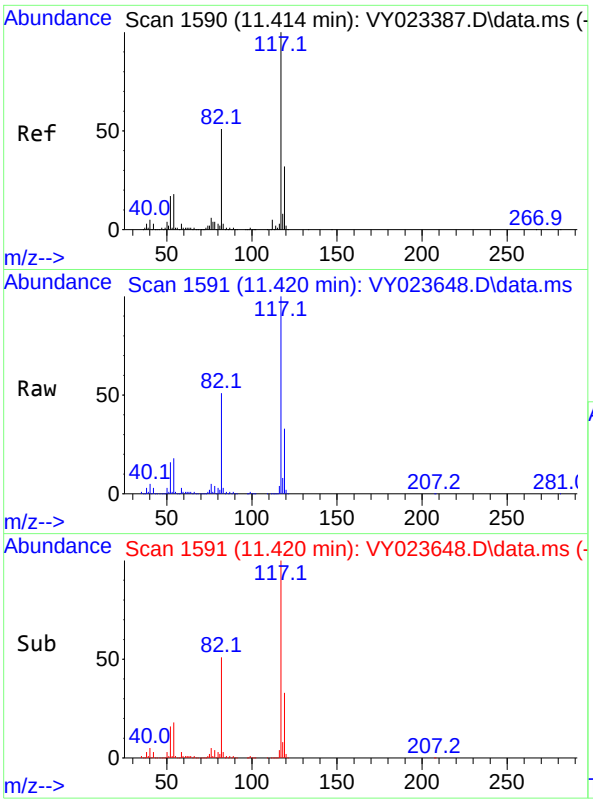


#62
4-Bromofluorobenzene
Concen: 43.191 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023648.D
Acq: 03 Nov 2025 10:38

Tgt Ion: 95 Resp: 416804

Ion	Ratio	Lower	Upper
95	100		
174	96.0	0.0	192.8
176	93.0	0.0	187.6



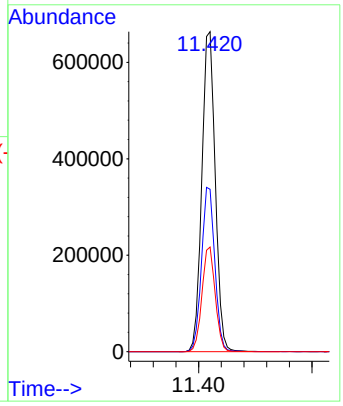


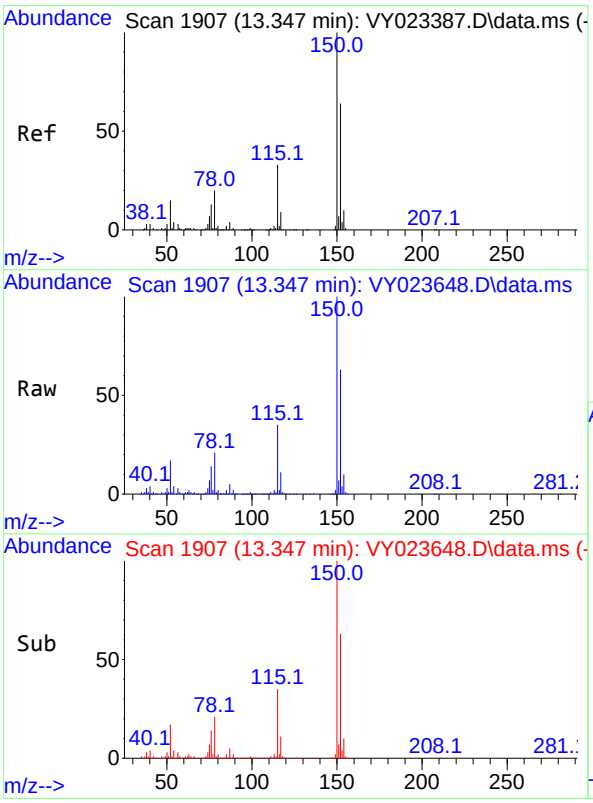
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023648.D
Acq: 03 Nov 2025 10:38

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBL01

Tgt Ion:117 Resp: 1087348

Ion	Ratio	Lower	Upper
117	100		
82	50.7	41.0	61.4
119	32.7	25.6	38.4

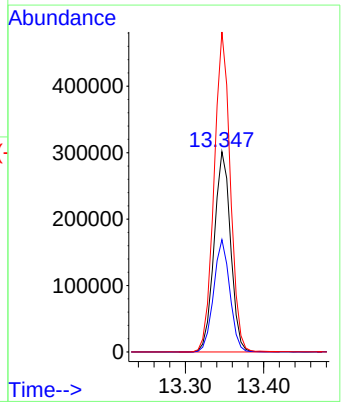




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY023648.D
Acq: 03 Nov 2025 10:38

Tgt Ion:152 Resp: 440158

Ion	Ratio	Lower	Upper
152	100		
115	55.1	27.1	81.2
150	157.5	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023648.D
Acq On : 03 Nov 2025 10:38
Operator : SY/MD
Sample : VY1103SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Title : SW846 8260

Signal : TIC: VY023648.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.623	465	476	487	rBV3	13120	38850	1.05%	0.207%
2	7.634	960	970	976	rBV	560379	1342612	36.30%	7.147%
3	7.713	976	983	999	rVB	912752	2102280	56.84%	11.191%
4	8.067	1029	1041	1052	rBV	470146	1054691	28.52%	5.614%
5	8.616	1123	1131	1144	rBV	1432782	2765595	74.78%	14.722%
6	10.109	1367	1376	1395	rBV	2209246	3698351	100.00%	19.687%
7	11.414	1583	1590	1605	rBV	1905150	3134882	84.76%	16.687%
8	12.408	1745	1753	1765	rBV	1416269	2171123	58.71%	11.557%
9	13.347	1900	1907	1919	rVB	1710856	2477636	66.99%	13.189%

Sum of corrected areas: 18786020

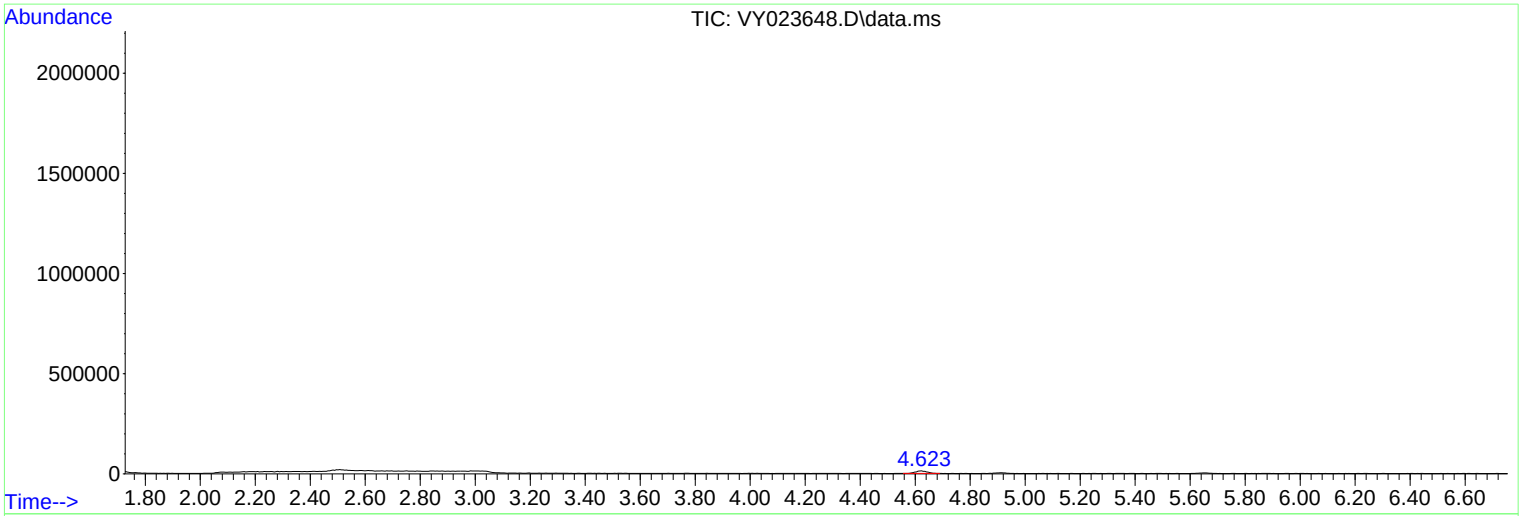
Sample Results: **VY023648.D**

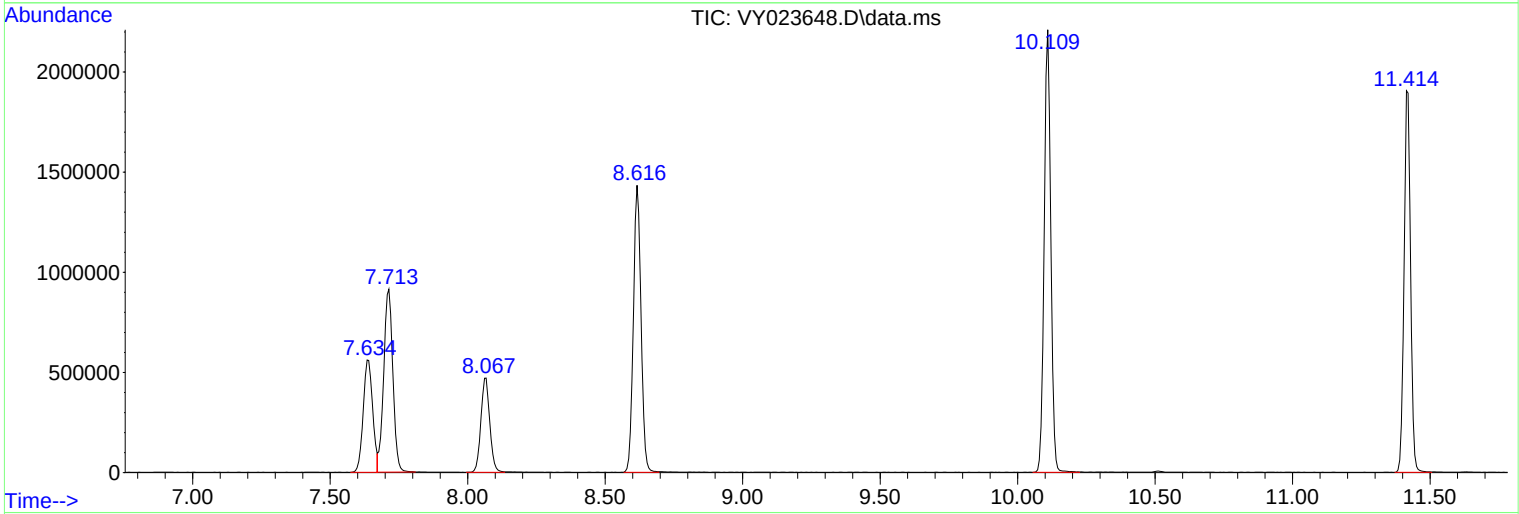
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023648.D
Acq On : 03 Nov 2025 10:38
Operator : SY/MD
Sample : VY1103SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

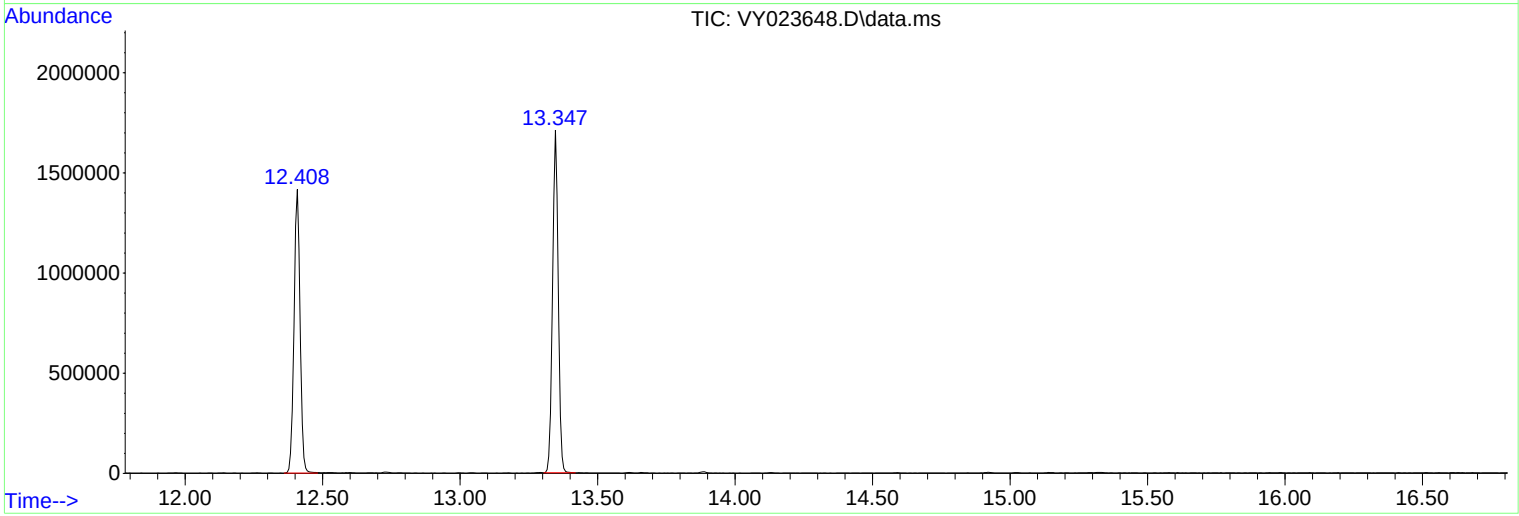
Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023648.D
Acq On : 03 Nov 2025 10:38
Operator : SY/MD
Sample : VY1103SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023648.D
Acq On : 03 Nov 2025 10:38
Operator : SY/MD
Sample : VY1103SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

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

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

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 905		Date Received:		
Client Sample ID:	VN1031MBS01		SDG No.:	Q3447	
Lab Sample ID:	VN1031MBS01	Soil Aliquot Vol: 100 uL	Matrix:	SOIL	
Analytical Method:	8260D	Level: MED	% Solid:	100	
Sample Wt/Vol:	5 g	Final Vol: 10000 uL	Test:	VOC-TCLVOA-10	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	1800		1	110	500	ug/Kg	10/31/25 10:40	VN103125
74-87-3	Chloromethane	1800		1	110	500	ug/Kg	10/31/25 10:40	VN103125
75-01-4	Vinyl Chloride	1800		1	79.0	500	ug/Kg	10/31/25 10:40	VN103125
74-83-9	Bromomethane	1800		1	110	500	ug/Kg	10/31/25 10:40	VN103125
75-00-3	Chloroethane	1700		1	130	500	ug/Kg	10/31/25 10:40	VN103125
75-69-4	Trichlorofluoromethane	1700		1	120	500	ug/Kg	10/31/25 10:40	VN103125
76-13-1	1,1,2-Trichlorotrifluoroethane	1900		1	110	500	ug/Kg	10/31/25 10:40	VN103125
75-35-4	1,1-Dichloroethene	1700		1	100	500	ug/Kg	10/31/25 10:40	VN103125
67-64-1	Acetone	9200		1	470	2500	ug/Kg	10/31/25 10:40	VN103125
75-15-0	Carbon Disulfide	1700		1	110	500	ug/Kg	10/31/25 10:40	VN103125
1634-04-4	Methyl tert-butyl Ether	2000		1	73.0	500	ug/Kg	10/31/25 10:40	VN103125
79-20-9	Methyl Acetate	2100		1	150	500	ug/Kg	10/31/25 10:40	VN103125
75-09-2	Methylene Chloride	2000		1	350	1000	ug/Kg	10/31/25 10:40	VN103125
156-60-5	trans-1,2-Dichloroethene	1800		1	86.0	500	ug/Kg	10/31/25 10:40	VN103125
75-34-3	1,1-Dichloroethane	1900		1	80.0	500	ug/Kg	10/31/25 10:40	VN103125
110-82-7	Cyclohexane	1900		1	79.0	500	ug/Kg	10/31/25 10:40	VN103125
78-93-3	2-Butanone	9800		1	650	2500	ug/Kg	10/31/25 10:40	VN103125
56-23-5	Carbon Tetrachloride	2000		1	97.0	500	ug/Kg	10/31/25 10:40	VN103125
156-59-2	cis-1,2-Dichloroethene	1800		1	75.0	500	ug/Kg	10/31/25 10:40	VN103125
74-97-5	Bromochloromethane	1800		1	120	500	ug/Kg	10/31/25 10:40	VN103125
67-66-3	Chloroform	2000		1	84.0	500	ug/Kg	10/31/25 10:40	VN103125
71-55-6	1,1,1-Trichloroethane	2000		1	93.0	500	ug/Kg	10/31/25 10:40	VN103125
108-87-2	Methylcyclohexane	1800		1	91.0	500	ug/Kg	10/31/25 10:40	VN103125
71-43-2	Benzene	2000		1	79.0	500	ug/Kg	10/31/25 10:40	VN103125
107-06-2	1,2-Dichloroethane	2100		1	79.0	500	ug/Kg	10/31/25 10:40	VN103125
79-01-6	Trichloroethene	2000		1	81.0	500	ug/Kg	10/31/25 10:40	VN103125
78-87-5	1,2-Dichloropropane	2000		1	91.0	500	ug/Kg	10/31/25 10:40	VN103125
75-27-4	Bromodichloromethane	2000		1	78.0	500	ug/Kg	10/31/25 10:40	VN103125
108-10-1	4-Methyl-2-Pentanone	10500		1	360	2500	ug/Kg	10/31/25 10:40	VN103125
108-88-3	Toluene	2000		1	78.0	500	ug/Kg	10/31/25 10:40	VN103125
10061-02-6	t-1,3-Dichloropropene	2000		1	65.0	500	ug/Kg	10/31/25 10:40	VN103125
10061-01-5	cis-1,3-Dichloropropene	2100		1	62.0	500	ug/Kg	10/31/25 10:40	VN103125
79-00-5	1,1,2-Trichloroethane	2000		1	92.0	500	ug/Kg	10/31/25 10:40	VN103125
591-78-6	2-Hexanone	10500		1	370	2500	ug/Kg	10/31/25 10:40	VN103125
124-48-1	Dibromochloromethane	2000		1	87.0	500	ug/Kg	10/31/25 10:40	VN103125
106-93-4	1,2-Dibromoethane	1900		1	88.0	500	ug/Kg	10/31/25 10:40	VN103125
127-18-4	Tetrachloroethene	2000		1	110	500	ug/Kg	10/31/25 10:40	VN103125
108-90-7	Chlorobenzene	2000		1	91.0	500	ug/Kg	10/31/25 10:40	VN103125
100-41-4	Ethyl Benzene	2100		1	67.0	500	ug/Kg	10/31/25 10:40	VN103125
179601-23-1	m/p-Xylenes	4000		1	120	1000	ug/Kg	10/31/25 10:40	VN103125
95-47-6	o-Xylene	2100		1	82.0	500	ug/Kg	10/31/25 10:40	VN103125
100-42-5	Styrene	2100		1	71.0	500	ug/Kg	10/31/25 10:40	VN103125
75-25-2	Bromoform	2000		1	86.0	500	ug/Kg	10/31/25 10:40	VN103125

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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:	
Project:	RFP 905		Date Received:	
Client Sample ID:	VN1031MBS01		SDG No.:	Q3447
Lab Sample ID:	VN1031MBS01	Soil Aliquot Vol: 100 uL	Matrix:	SOIL
Analytical Method:	8260D	Level: MED	% Solid:	100
Sample Wt/Vol:	5 g	Final Vol: 10000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	2100		1	78.0	500	ug/Kg	10/31/25 10:40	VN103125
79-34-5	1,1,2,2-Tetrachloroethane	2000		1	120	500	ug/Kg	10/31/25 10:40	VN103125
541-73-1	1,3-Dichlorobenzene	2100		1	170	500	ug/Kg	10/31/25 10:40	VN103125
106-46-7	1,4-Dichlorobenzene	2000		1	160	500	ug/Kg	10/31/25 10:40	VN103125
95-50-1	1,2-Dichlorobenzene	2000		1	150	500	ug/Kg	10/31/25 10:40	VN103125
96-12-8	1,2-Dibromo-3-Chloropropane	2000		1	180	500	ug/Kg	10/31/25 10:40	VN103125
120-82-1	1,2,4-Trichlorobenzene	1900		1	300	500	ug/Kg	10/31/25 10:40	VN103125
87-61-6	1,2,3-Trichlorobenzene	1800		1	320	500	ug/Kg	10/31/25 10:40	VN103125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	51.8			63 - 155	104%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.0			70 - 134	102%	SPK: 50		
2037-26-5	Toluene-d8	50.1			74 - 123	100%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.6			17 - 146	103%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	366000							
540-36-3	1,4-Difluorobenzene	659000							
3114-55-4	Chlorobenzene-d5	570000							
3855-82-1	1,4-Dichlorobenzene-d4	277000							

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\VN103125\
Data File : VN088176.D
Acq On : 31 Oct 2025 10:40
Operator : JC\MD
Sample : VN1031MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 01 00:28:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	365900	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	658623	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	570292	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	276898	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	327493	51.760	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.520%			
35) Dibromofluoromethane	8.153	113	225706	51.011	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.020%			
50) Toluene-d8	10.547	98	853668	50.071	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.140%			
62) 4-Bromofluorobenzene	12.829	95	310429	51.557	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.120%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	76236	18.471	ug/l	94
3) Chloromethane	2.383	50	87306	17.980	ug/l	98
4) Vinyl Chloride	2.536	62	96770	18.291	ug/l	99
5) Bromomethane	2.983	94	55583	17.565	ug/l	99
6) Chloroethane	3.142	64	64268	16.860	ug/l	99
7) Trichlorofluoromethane	3.512	101	147083	17.430	ug/l	99
8) Diethyl Ether	3.965	74	59065	18.833	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	81739	18.772	ug/l	98
10) Methyl Iodide	4.589	142	67859	18.683	ug/l	96
11) Tert butyl alcohol	5.524	59	103331	94.796	ug/l #	82
12) 1,1-Dichloroethene	4.336	96	79759	17.343	ug/l	94
13) Acrolein	4.171	56	129219	105.390	ug/l	99
14) Allyl chloride	5.018	41	152475	18.915	ug/l	98
15) Acrylonitrile	5.706	53	289858	97.621	ug/l	100
16) Acetone	4.424	43	292059	91.880	ug/l	99
17) Carbon Disulfide	4.706	76	236099	16.888	ug/l	98
18) Methyl Acetate	5.012	43	133511	20.516	ug/l	98
19) Methyl tert-butyl Ether	5.783	73	334076	19.780	ug/l	96
20) Methylene Chloride	5.259	84	96023	19.881	ug/l	96
21) trans-1,2-Dichloroethene	5.771	96	90217	17.872	ug/l	95
22) Diisopropyl ether	6.659	45	337254	19.894	ug/l	99
23) Vinyl Acetate	6.588	43	1519591	99.511	ug/l	98
24) 1,1-Dichloroethane	6.553	63	182518	19.436	ug/l	99
25) 2-Butanone	7.471	43	412174	98.394	ug/l	99
26) 2,2-Dichloropropane	7.471	77	160576	18.817	ug/l	98
27) cis-1,2-Dichloroethene	7.471	96	105917	18.226	ug/l	90
28) Bromochloromethane	7.794	49	80331	18.104	ug/l	98
29) Tetrahydrofuran	7.824	42	252843	92.616	ug/l	98
30) Chloroform	7.947	83	183559	19.566	ug/l	98
31) Cyclohexane	8.235	56	168962	19.077	ug/l	94
32) 1,1,1-Trichloroethane	8.147	97	165303	19.784	ug/l	98
36) 1,1-Dichloropropene	8.353	75	132144	20.454	ug/l	99
37) Ethyl Acetate	7.547	43	163329	19.590	ug/l	98
38) Carbon Tetrachloride	8.341	117	136470	20.452	ug/l	92
39) Methylcyclohexane	9.582	83	148996	17.942	ug/l	98
40) Benzene	8.588	78	392192	19.933	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088176.D
Acq On : 31 Oct 2025 10:40
Operator : JC\MD
Sample : VN1031MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 01 00:28:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.765	41	84826	19.331 ug/l		96
42) 1,2-Dichloroethane	8.653	62	149103	21.328 ug/l		98
43) Isopropyl Acetate	8.677	43	262079	20.457 ug/l		99
44) Trichloroethene	9.335	130	90431	19.664 ug/l		99
45) 1,2-Dichloropropane	9.600	63	100141	20.160 ug/l		94
46) Dibromomethane	9.688	93	71318	20.131 ug/l		97
47) Bromodichloromethane	9.871	83	145036	20.448 ug/l		99
48) Methyl methacrylate	9.665	41	123141	20.820 ug/l		99
49) 1,4-Dioxane	9.676	88	30578	415.673 ug/l	#	92
51) 4-Methyl-2-Pentanone	10.423	43	796743	105.127 ug/l		100
52) Toluene	10.606	92	238757	19.682 ug/l		99
53) t-1,3-Dichloropropene	10.818	75	154459	20.461 ug/l		96
54) cis-1,3-Dichloropropene	10.288	75	165605	20.674 ug/l		98
55) 1,1,2-Trichloroethane	10.994	97	90249	19.610 ug/l		97
56) Ethyl methacrylate	10.859	69	152199	20.898 ug/l		97
57) 1,3-Dichloropropane	11.141	76	162624	20.104 ug/l		100
58) 2-Chloroethyl Vinyl ether	10.141	63	367462	96.998 ug/l		100
59) 2-Hexanone	11.176	43	525520	104.526 ug/l		96
60) Dibromochloromethane	11.335	129	102136	19.525 ug/l		98
61) 1,2-Dibromoethane	11.447	107	91944	19.412 ug/l		96
64) Tetrachloroethene	11.082	164	74655	19.846 ug/l		96
65) Chlorobenzene	11.870	112	258788	19.984 ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.935	131	88152	20.778 ug/l		96
67) Ethyl Benzene	11.941	91	469748	20.666 ug/l		99
68) m/p-Xylenes	12.047	106	341537	40.102 ug/l		99
69) o-Xylene	12.376	106	167414	20.736 ug/l		99
70) Styrene	12.394	104	271968	20.658 ug/l		97
71) Bromoform	12.559	173	62373	19.700 ug/l	#	100
73) Isopropylbenzene	12.676	105	441631	20.679 ug/l		100
74) N-amyl acetate	12.588	43	114579m	18.899 ug/l		
75) 1,1,2,2-Tetrachloroethane	12.917	83	136061	20.464 ug/l		100
76) 1,2,3-Trichloropropane	12.970	75	120761m	19.075 ug/l		
77) Bromobenzene	12.959	156	98339	21.353 ug/l		98
78) n-propylbenzene	13.012	91	529965	20.335 ug/l		100
79) 2-Chlorotoluene	13.106	91	314234	21.142 ug/l		100
80) 1,3,5-Trimethylbenzene	13.153	105	359378	20.262 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.723	75	40878	18.012 ug/l		92
82) 4-Chlorotoluene	13.200	91	329263	20.476 ug/l		99
83) tert-Butylbenzene	13.412	119	308050	19.443 ug/l		99
84) 1,2,4-Trimethylbenzene	13.459	105	370707	20.890 ug/l		97
85) sec-Butylbenzene	13.594	105	442537	19.011 ug/l		99
86) p-Isopropyltoluene	13.706	119	361798	19.374 ug/l		99
87) 1,3-Dichlorobenzene	13.711	146	188929	20.550 ug/l		98
88) 1,4-Dichlorobenzene	13.788	146	194213	19.669 ug/l		98
89) n-Butylbenzene	14.035	91	340846	18.427 ug/l		97
90) Hexachloroethane	14.306	117	63074	17.442 ug/l		91
91) 1,2-Dichlorobenzene	14.082	146	176748	19.944 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.700	75	30844	19.931 ug/l		96
93) 1,2,4-Trichlorobenzene	15.370	180	101412	18.895 ug/l		99
94) Hexachlorobutadiene	15.470	225	35429	17.727 ug/l		96
95) Naphthalene	15.617	128	352616	19.178 ug/l		99
96) 1,2,3-Trichlorobenzene	15.811	180	94098	18.285 ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
Data File : VN088176.D
Acq On : 31 Oct 2025 10:40
Operator : JC\MD
Sample : VN1031MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 01 00:28:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

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

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

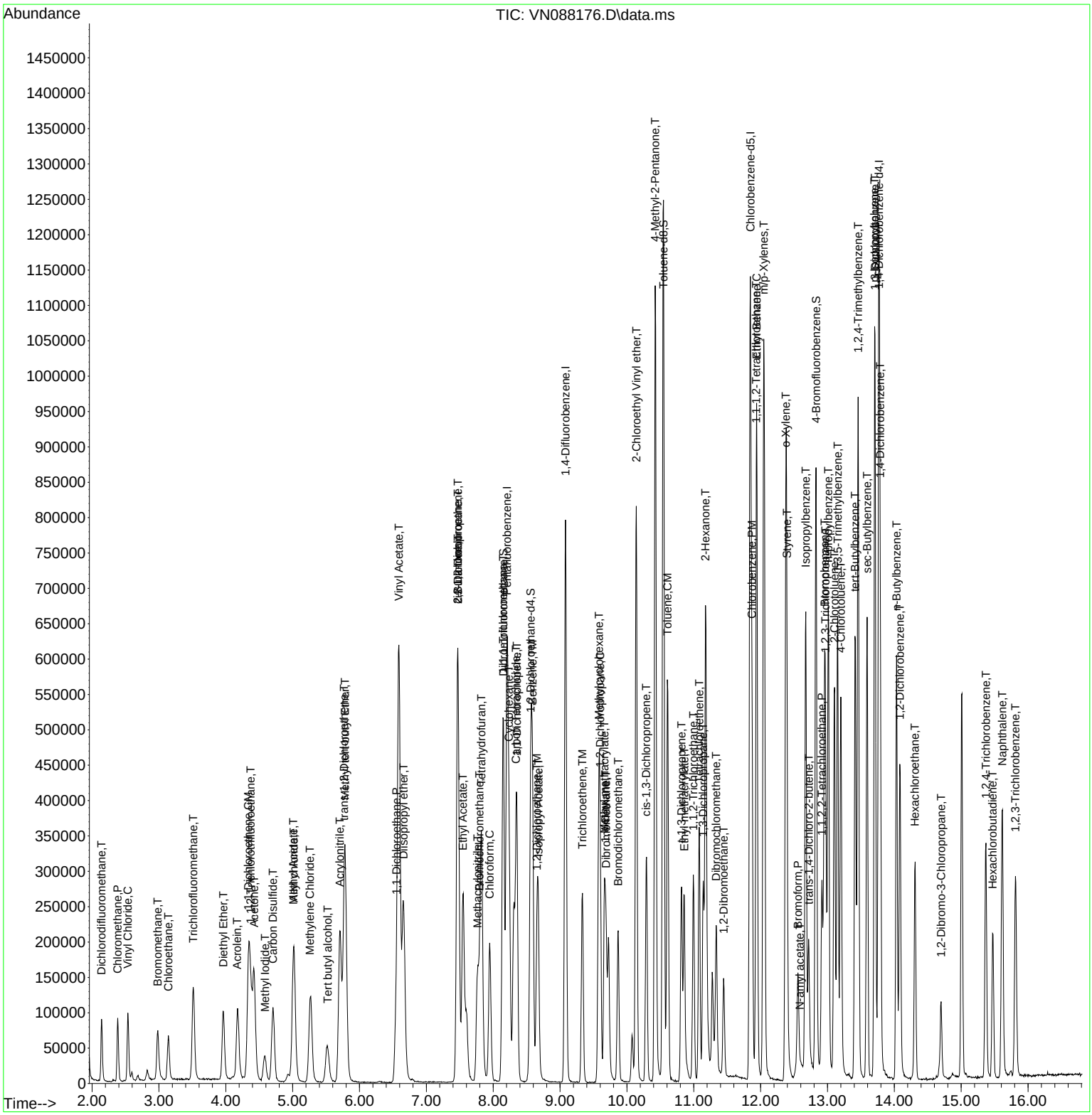
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Data File : VN088176.D
Acq On : 31 Oct 2025 10:40
Operator : JC\MD
Sample : VN1031MBS01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 5 Sample Multiplier: 1

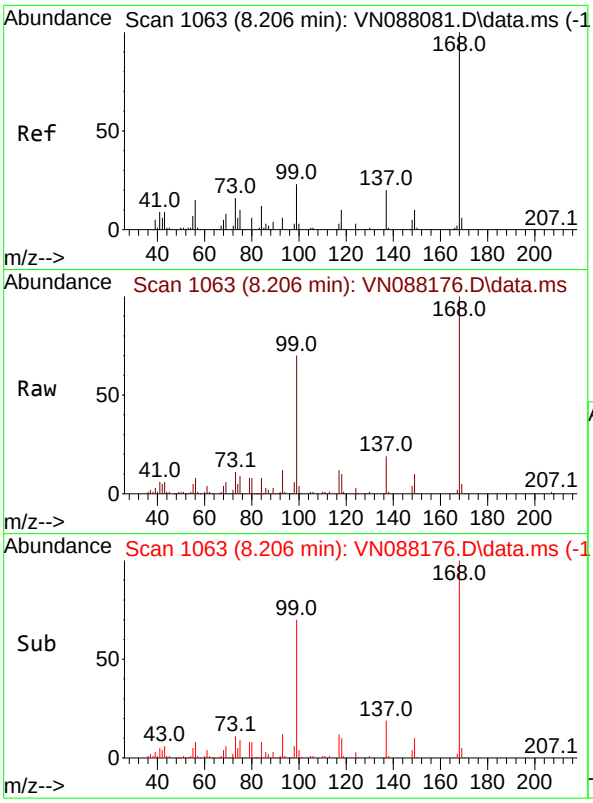
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Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

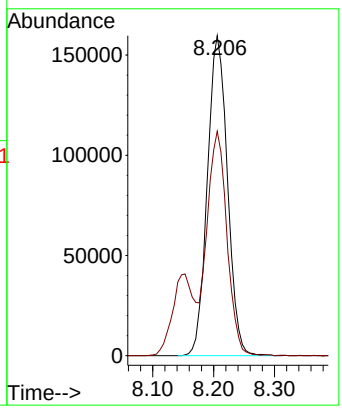




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:168 Resp: 365900

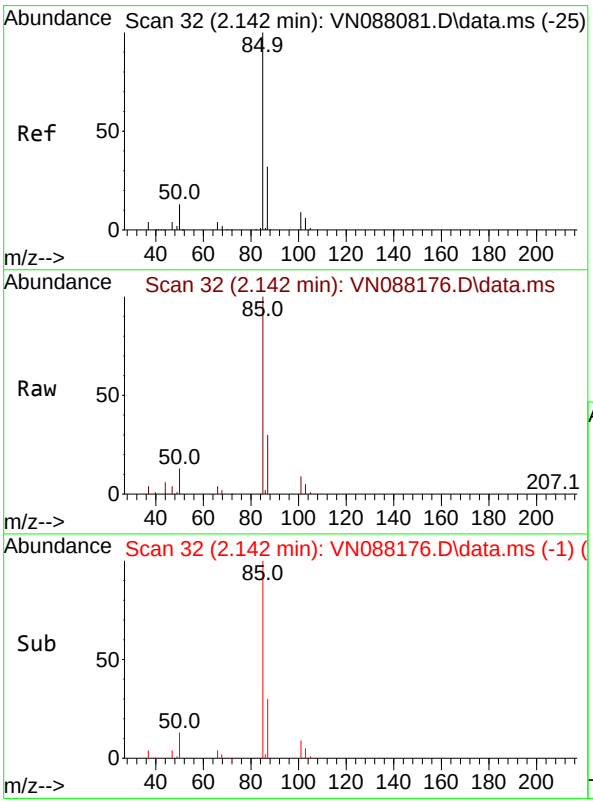
Ion	Ratio	Lower	Upper
168	100		
99	70.0	57.2	85.8



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

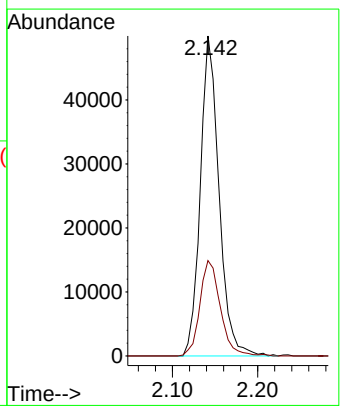
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

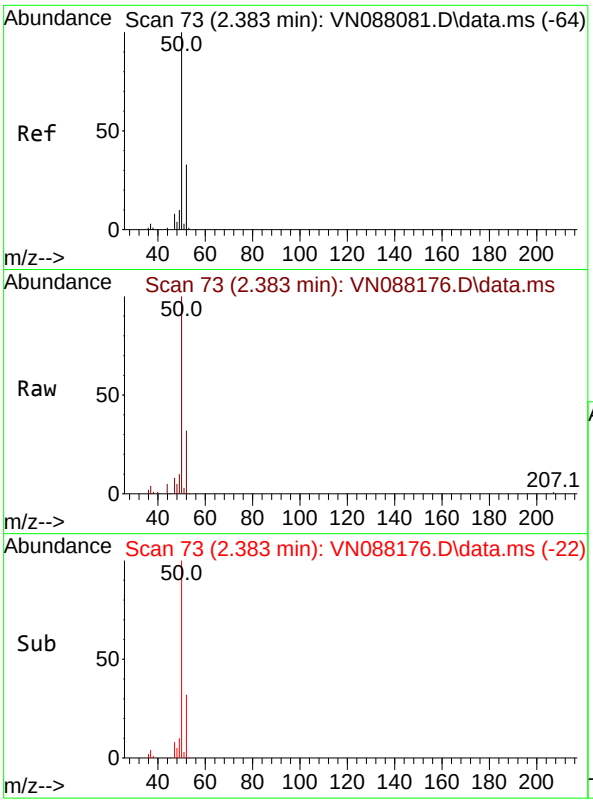


#2
Dichlorodifluoromethane
Concen: 18.471 ug/l
RT: 2.142 min Scan# 32
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 85 Resp: 76236

Ion	Ratio	Lower	Upper
85	100		
87	29.8	16.6	49.8

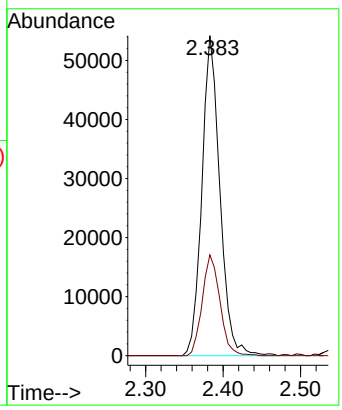




#3
Chloromethane
Concen: 17.980 ug/l
RT: 2.383 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 50 Resp: 8730

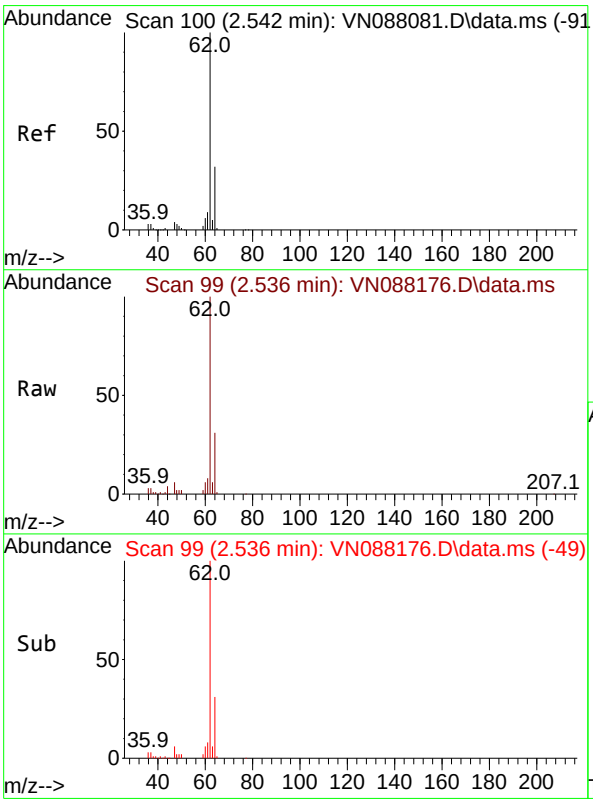
Ion	Ratio	Lower	Upper
50	100		
52	31.5	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

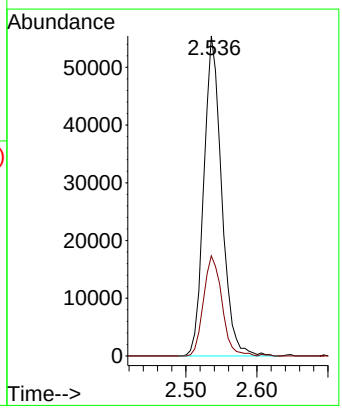
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

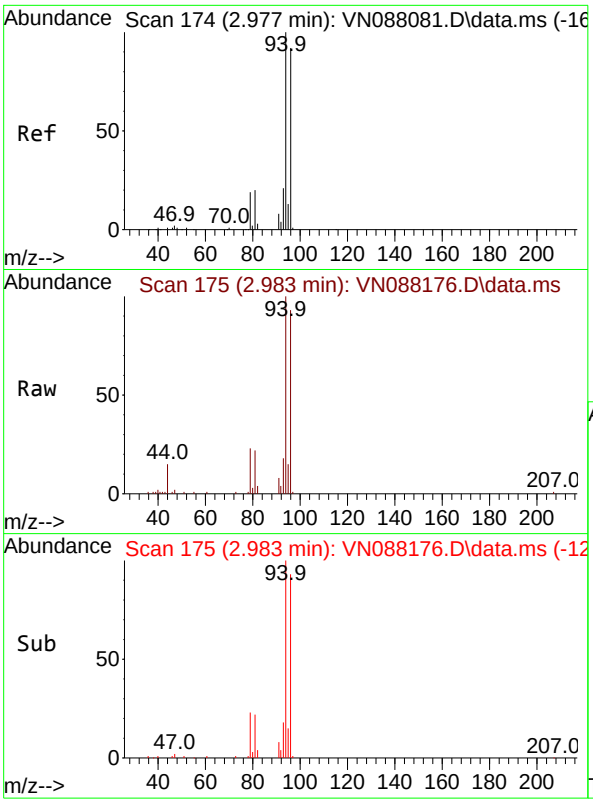


#4
Vinyl Chloride
Concen: 18.291 ug/l
RT: 2.536 min Scan# 99
Delta R.T. -0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 62 Resp: 96770

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.6	37.0

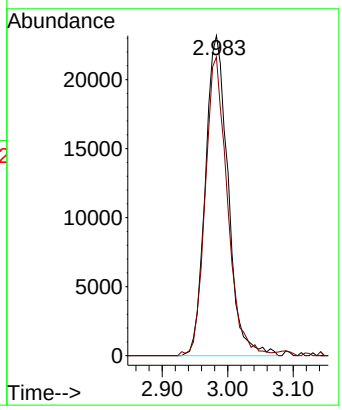




#5
Bromomethane
Concen: 17.565 ug/l
RT: 2.983 min Scan# 1
Delta R.T. 0.012 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 94 Resp: 5558

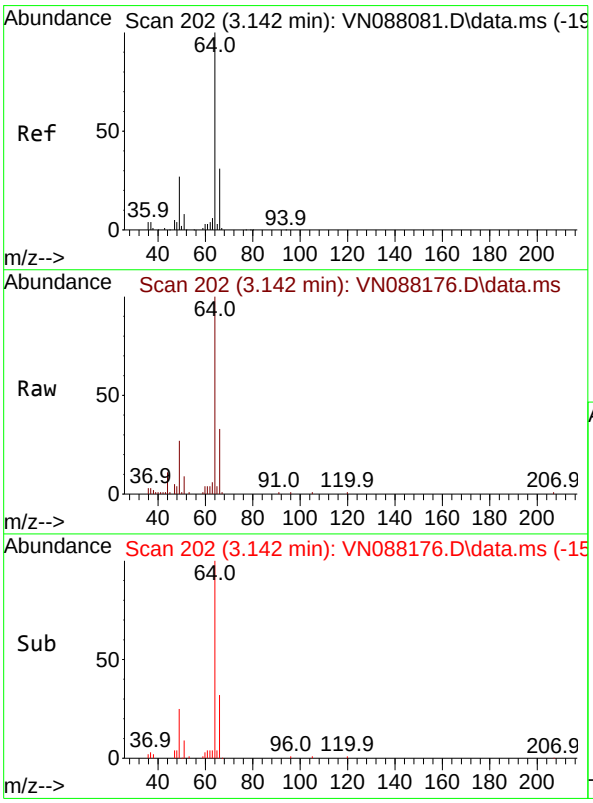
Ion	Ratio	Lower	Upper
94	100		
96	93.3	75.4	113.2



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

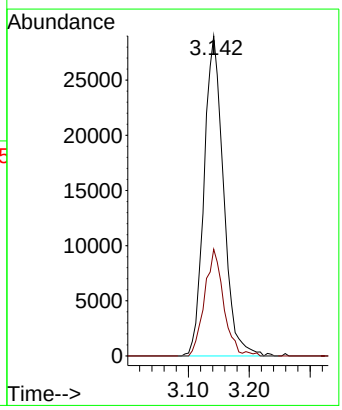
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

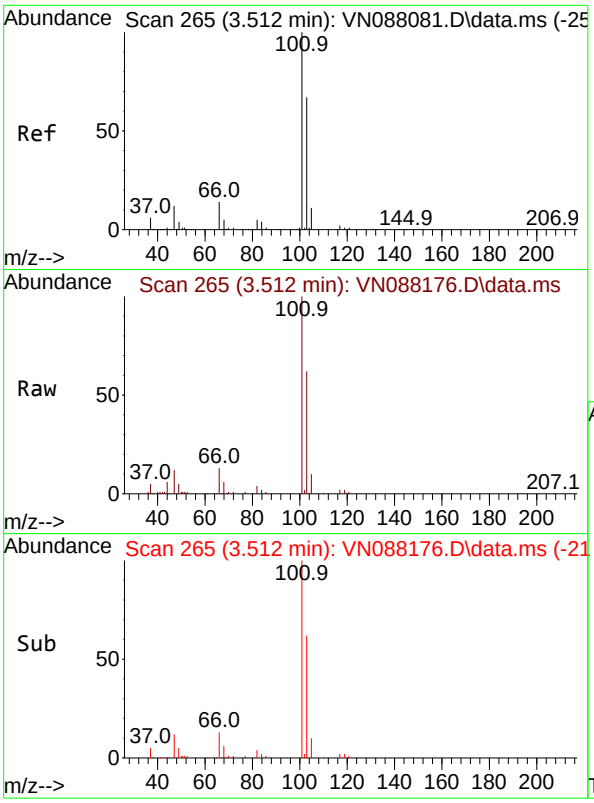


#6
Chloroethane
Concen: 16.860 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 64 Resp: 64268

Ion	Ratio	Lower	Upper
64	100		
66	33.3	26.2	39.2

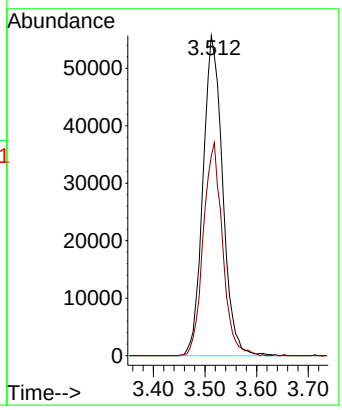




#7
Trichlorofluoromethane
Concen: 17.430 ug/l
RT: 3.512 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:101 Resp: 14708

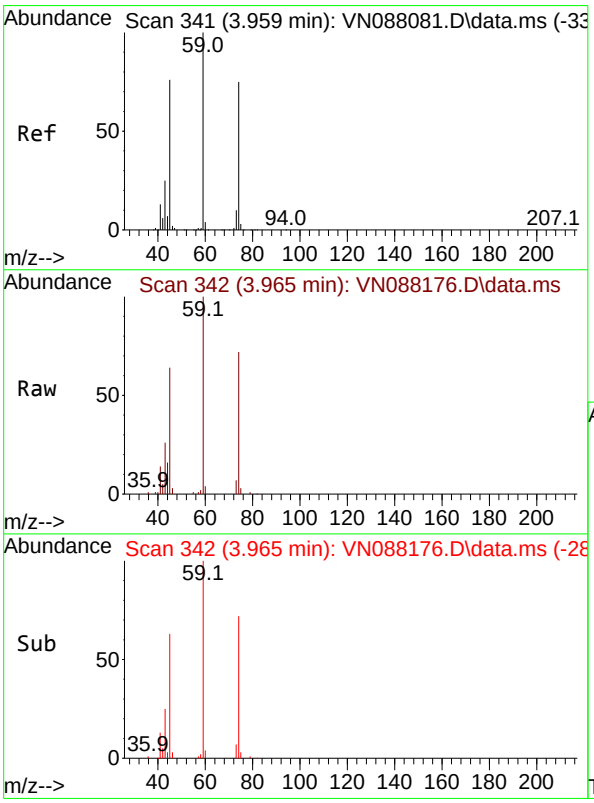
Ion	Ratio	Lower	Upper
101	100		
103	62.4	49.4	74.0



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

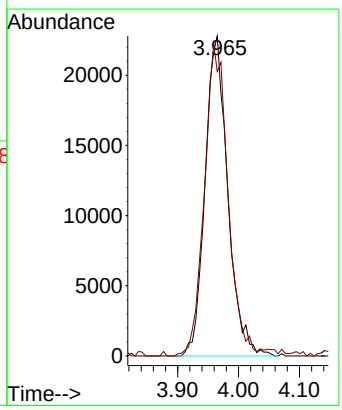
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

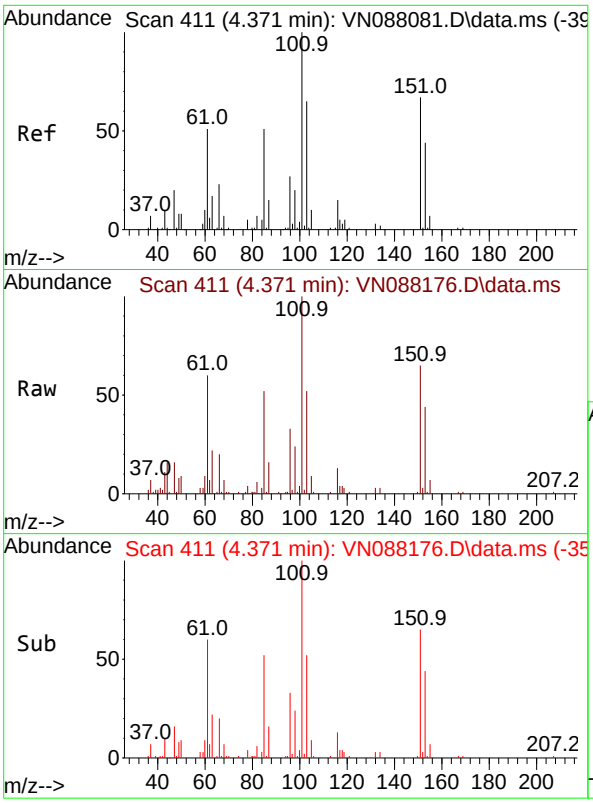


#8
Diethyl Ether
Concen: 18.833 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.012 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 74 Resp: 59065

Ion	Ratio	Lower	Upper
74	100		
45	101.1	50.6	151.9





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.772 ug/l
RT: 4.371 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

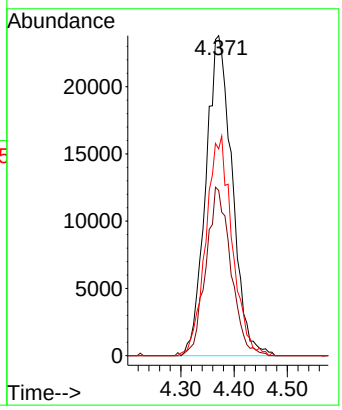
Tgt Ion:101 Resp: 8173

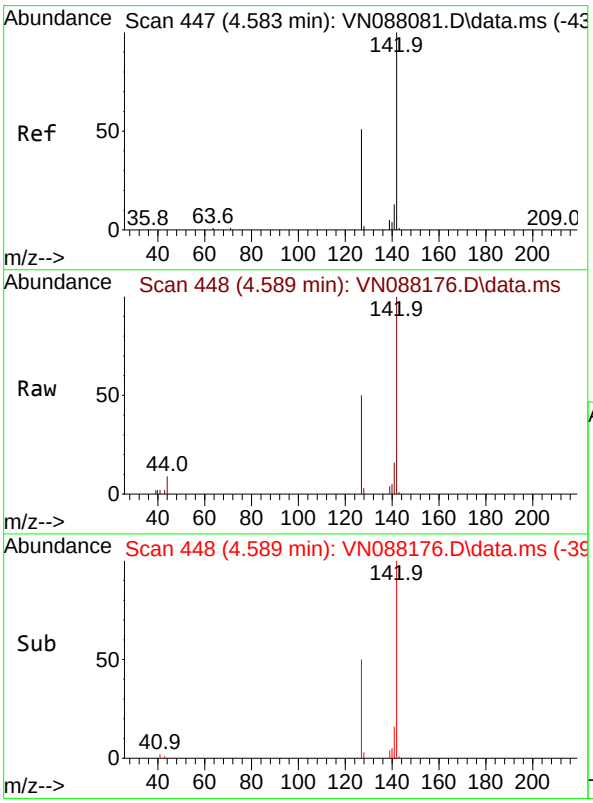
Ion	Ratio	Lower	Upper
101	100		
85	49.8	36.6	55.0
151	68.5	54.7	82.1

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

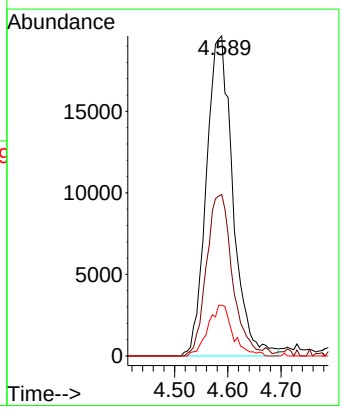


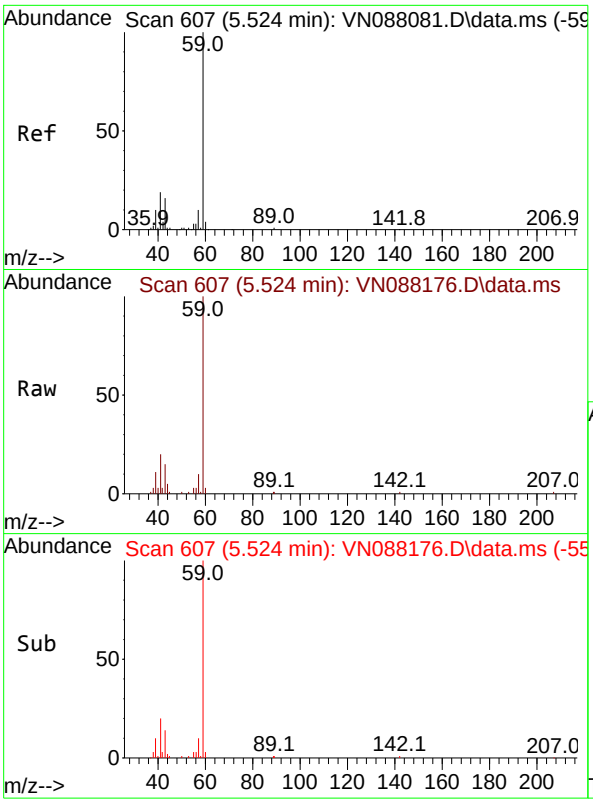


#10
Methyl Iodide
Concen: 18.683 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.012 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:142 Resp: 67859

Ion	Ratio	Lower	Upper
142	100		
127	50.4	38.0	57.0
141	15.8	12.0	18.0

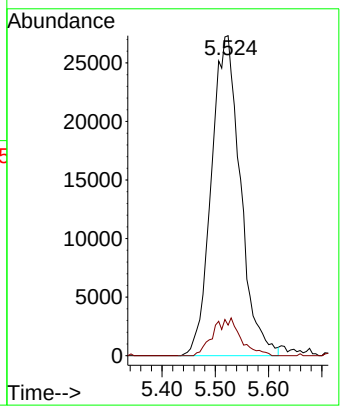




#11
Tert butyl alcohol
Concen: 94.796 ug/l
RT: 5.524 min Scan# 6
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 59 Resp: 10333

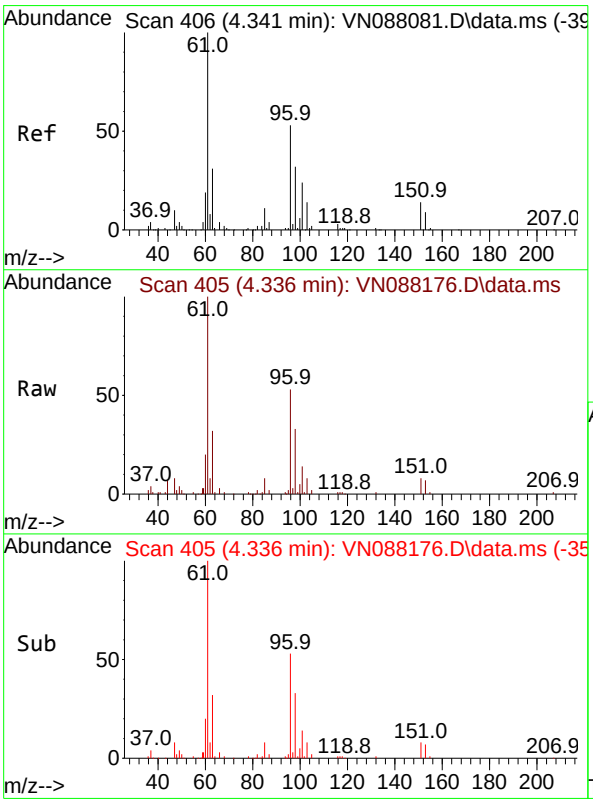
Ion	Ratio	Lower	Upper
59	100		
57	4.5	9.0	13.4



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

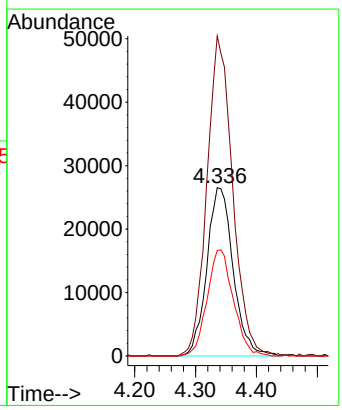
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

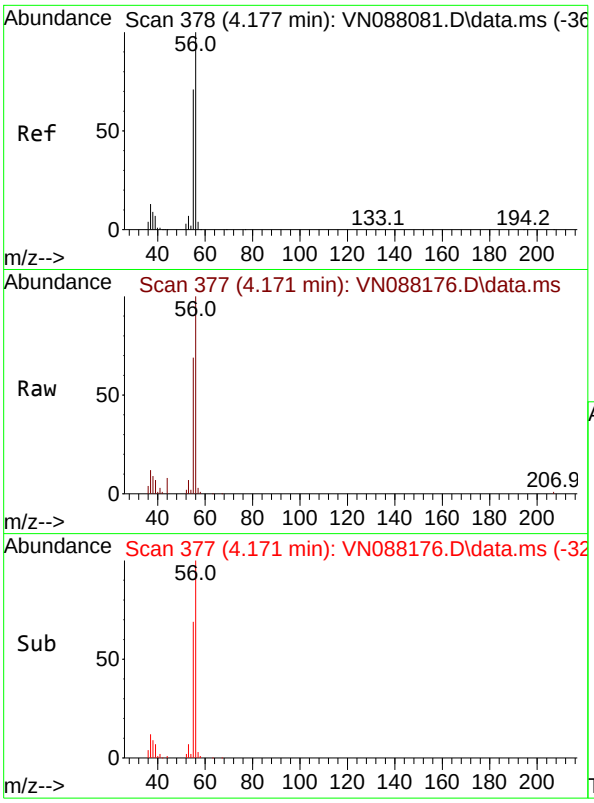


#12
1,1-Dichloroethene
Concen: 17.343 ug/l
RT: 4.336 min Scan# 405
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 96 Resp: 79759

Ion	Ratio	Lower	Upper
96	100		
61	190.1	143.8	215.8
98	62.7	52.1	78.1

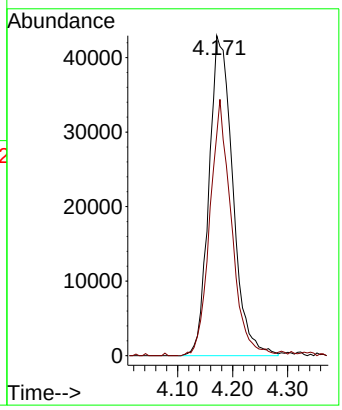




#13
Acrolein
Concen: 105.390 ug/l
RT: 4.171 min Scan# 3
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 56 Resp: 12921

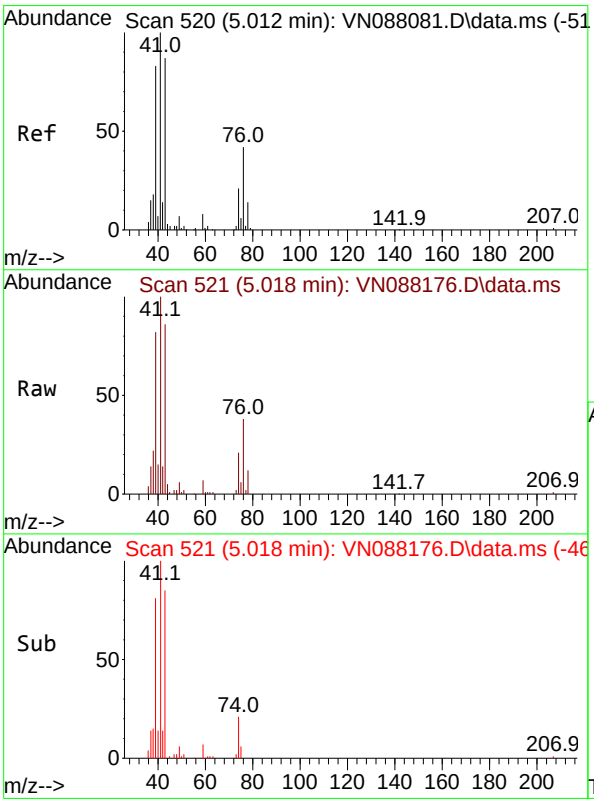
Ion	Ratio	Lower	Upper
56	100		
55	72.4	57.3	85.9



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

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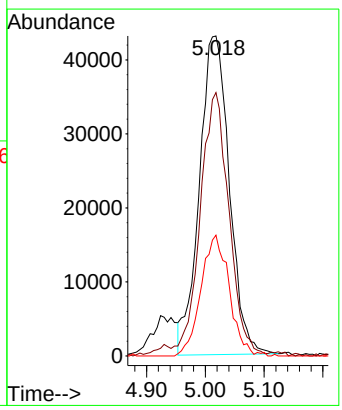
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

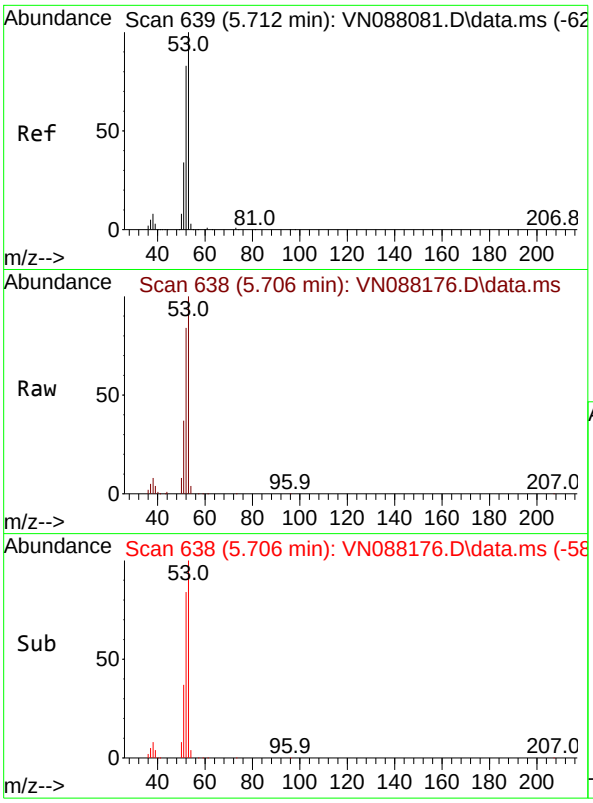


#14
Allyl chloride
Concen: 18.915 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.012 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 41 Resp: 152475

Ion	Ratio	Lower	Upper
41	100		
39	78.1	63.9	95.9
76	35.9	28.1	42.1

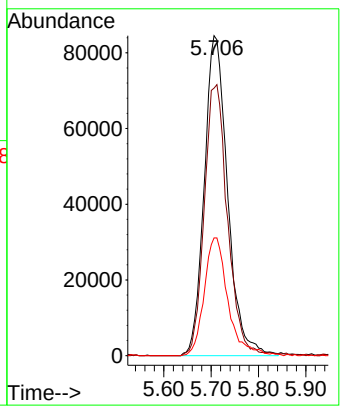




#15
Acrylonitrile
Concen: 97.621 ug/l
RT: 5.706 min Scan# 6
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

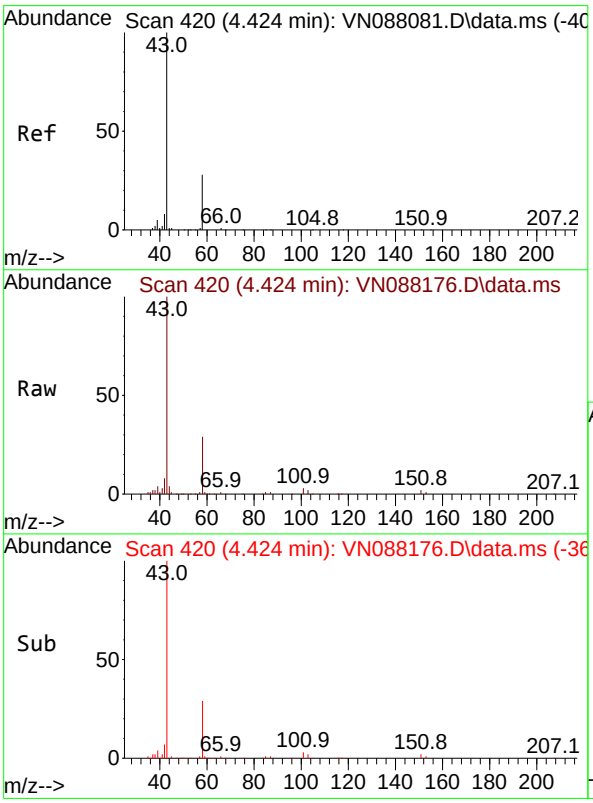
Tgt Ion: 53 Resp: 28985

Ion	Ratio	Lower	Upper
53	100		
52	84.3	67.6	101.4
51	37.2	30.1	45.1



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

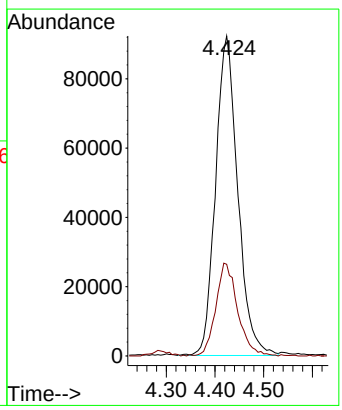
Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

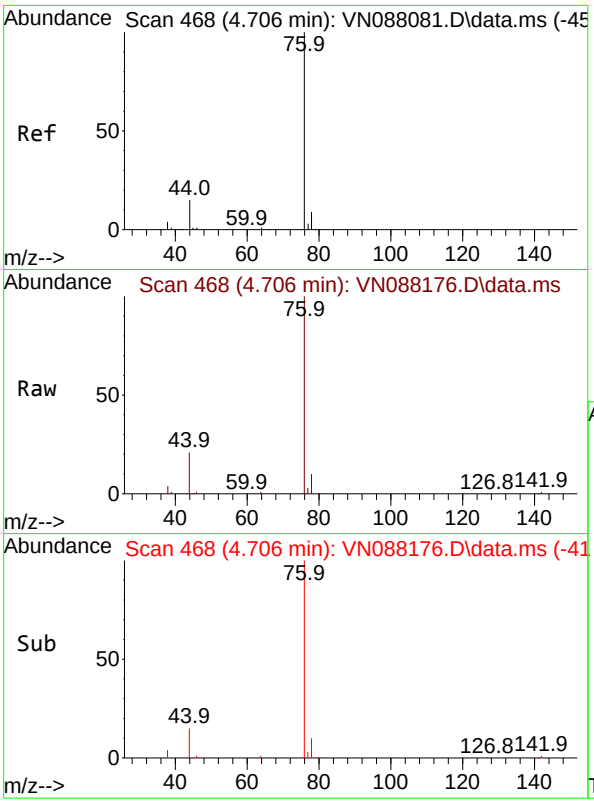


#16
Acetone
Concen: 91.880 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 43 Resp: 292059

Ion	Ratio	Lower	Upper
43	100		
58	28.7	22.6	33.8

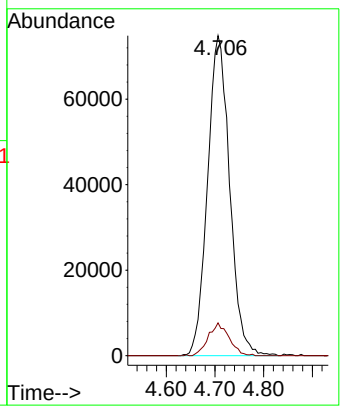




#17
Carbon Disulfide
Concen: 16.888 ug/l
RT: 4.706 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 76 Resp: 23609

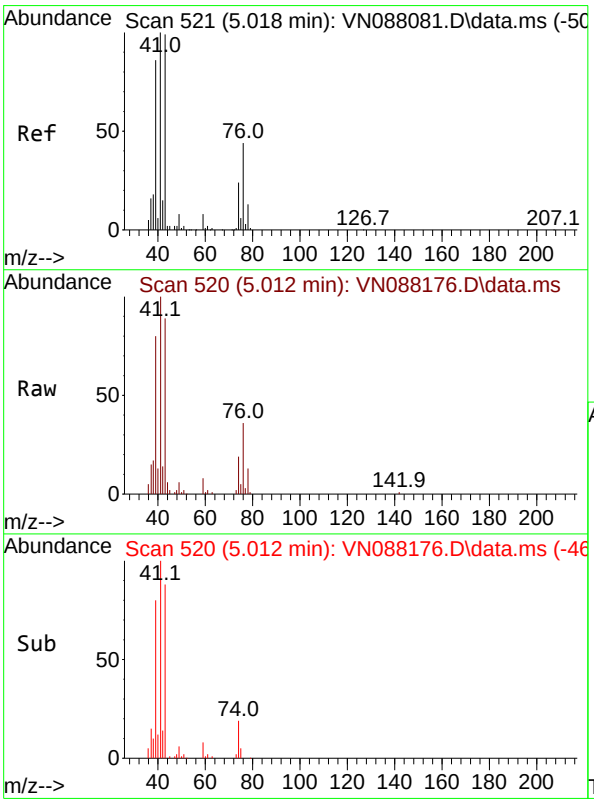
Ion	Ratio	Lower	Upper
76	100		
78	10.3	7.6	11.4



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

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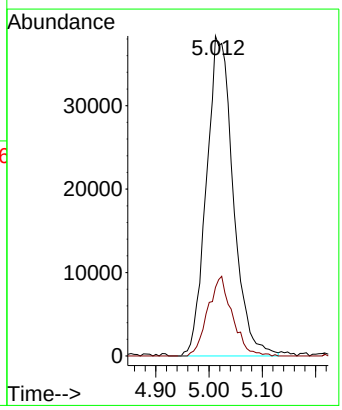
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

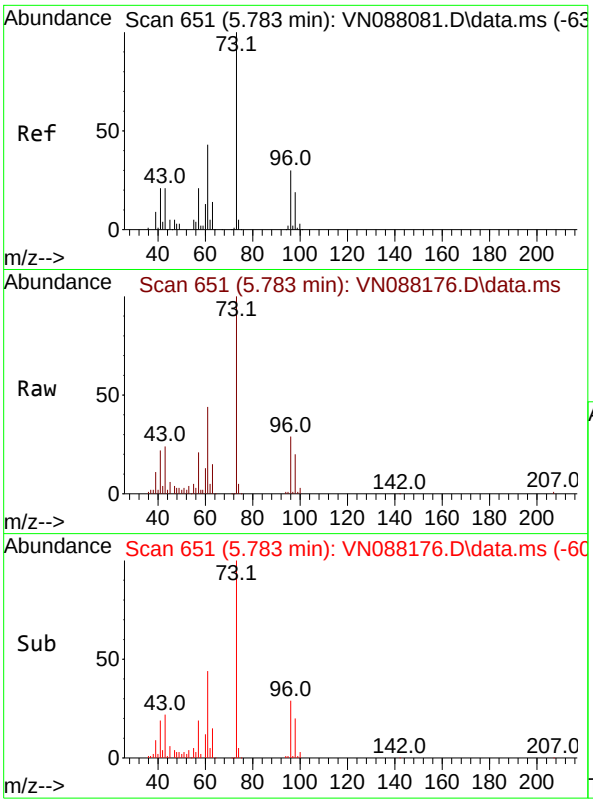


#18
Methyl Acetate
Concen: 20.516 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 43 Resp: 133511

Ion	Ratio	Lower	Upper
43	100		
74	22.9	17.6	26.4

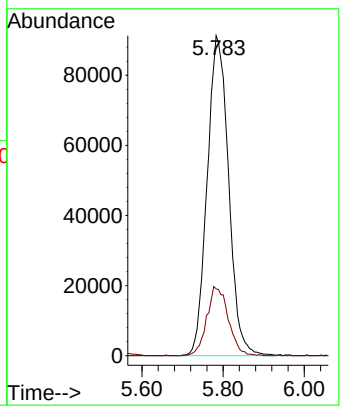




#19
Methyl tert-butyl Ether
Concen: 19.780 ug/l
RT: 5.783 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 73 Resp: 33407

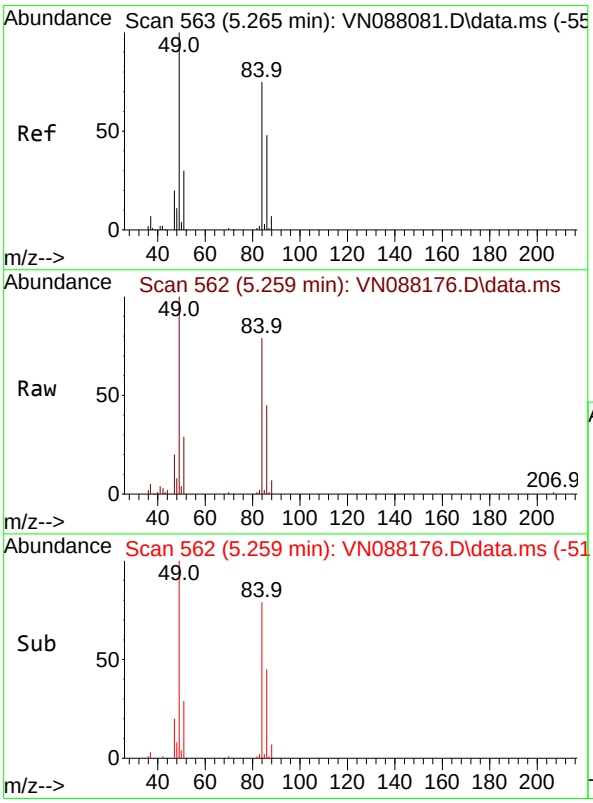
Ion	Ratio	Lower	Upper
73	100		
57	20.9	18.4	27.6



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

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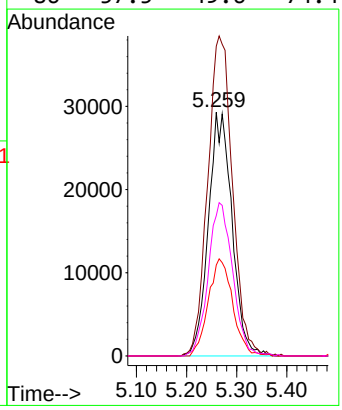
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

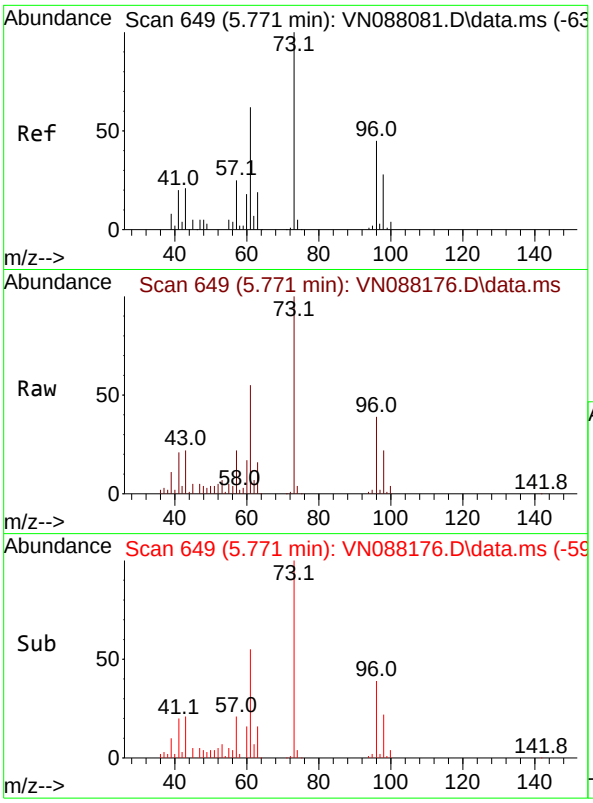


#20
Methylene Chloride
Concen: 19.881 ug/l
RT: 5.259 min Scan# 562
Delta R.T. -0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 84 Resp: 96023

Ion	Ratio	Lower	Upper
84	100		
49	127.1	103.4	155.2
51	37.3	33.8	50.8
86	57.5	49.6	74.4

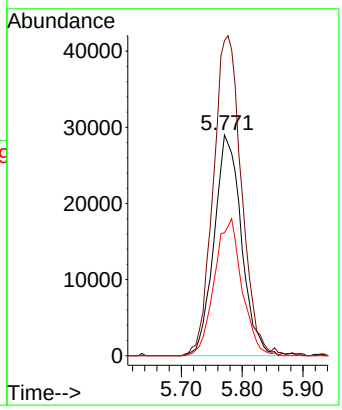




#21
trans-1,2-Dichloroethene
Concen: 17.872 ug/l
RT: 5.771 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 96 Resp: 9021

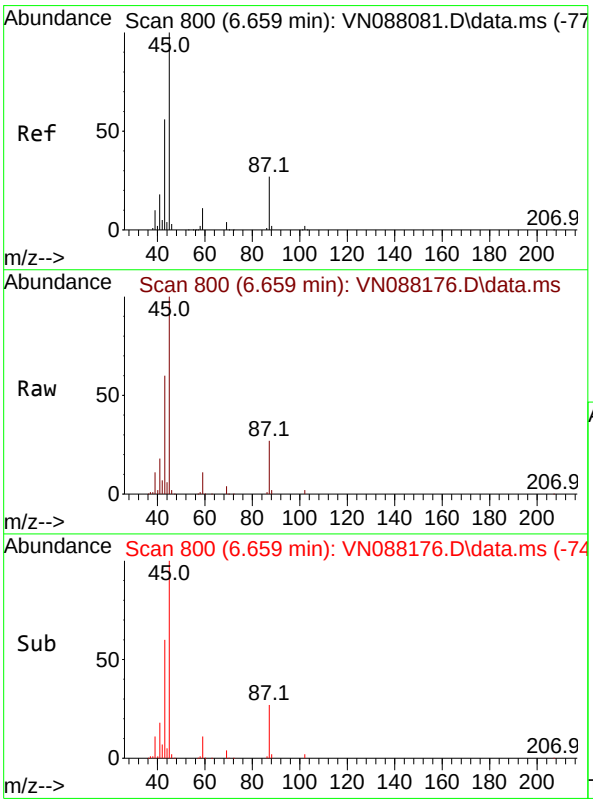
Ion	Ratio	Lower	Upper
96	100		
61	142.7	118.0	177.0
98	55.7	50.0	75.0



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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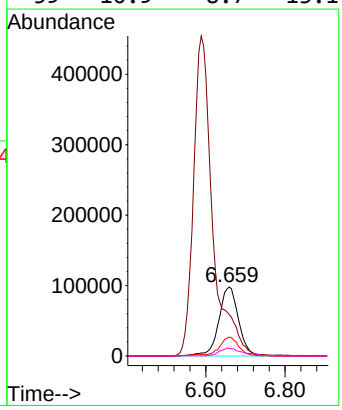
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

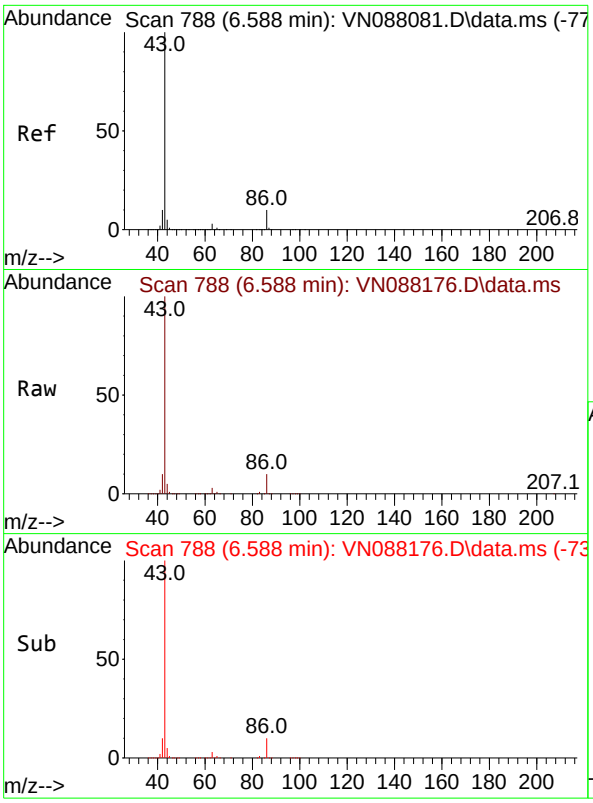


#22
Diisopropyl ether
Concen: 19.894 ug/l
RT: 6.659 min Scan# 800
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 45 Resp: 337254

Ion	Ratio	Lower	Upper
45	100		
43	58.9	47.7	71.5
87	27.3	21.4	32.0
59	10.9	8.7	13.1





#23
Vinyl Acetate
Concen: 99.511 ug/l
RT: 6.588 min Scan# 7
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

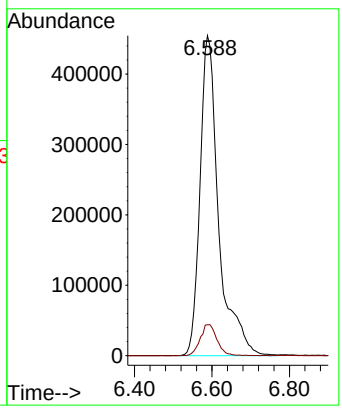
Tgt Ion: 43 Resp: 151959

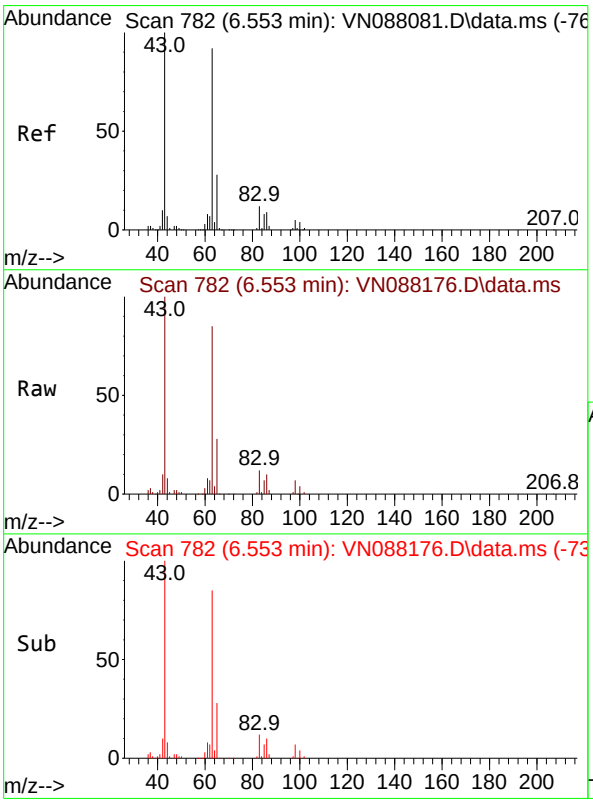
Ion	Ratio	Lower	Upper
43	100		
86	9.6	8.2	12.4

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

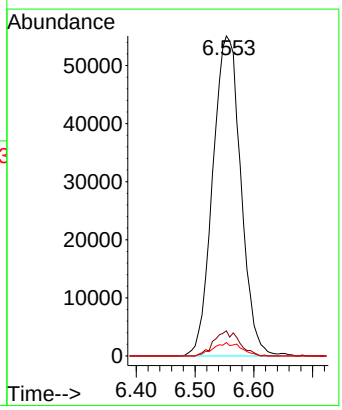


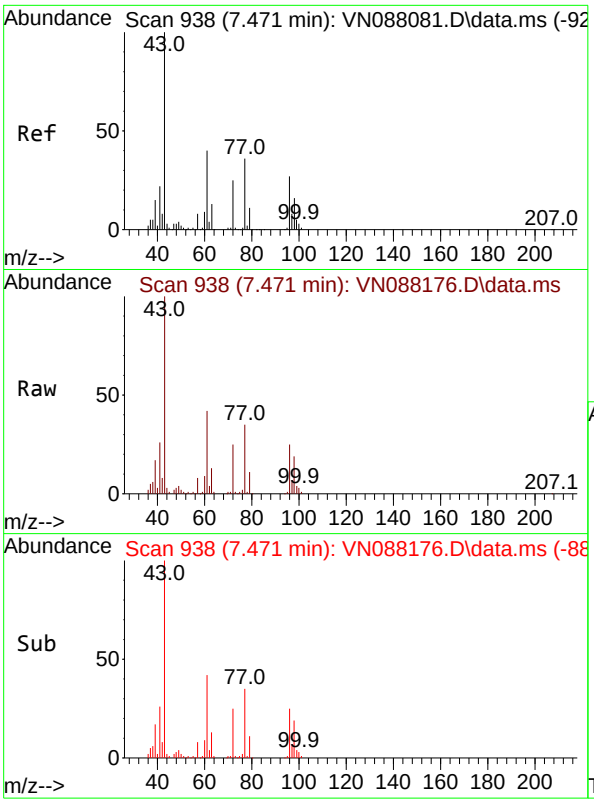


#24
1,1-Dichloroethane
Concen: 19.436 ug/l
RT: 6.553 min Scan# 782
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 63 Resp: 182518

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.8	11.4
100	4.2	2.0	6.0

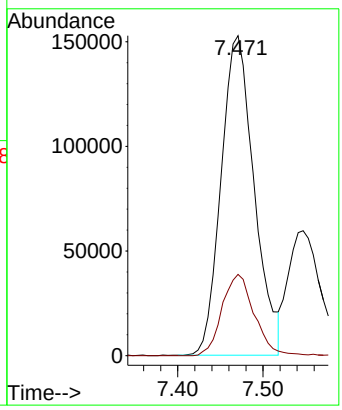




#25
2-Butanone
Concen: 98.394 ug/l
RT: 7.471 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 43 Resp: 41217

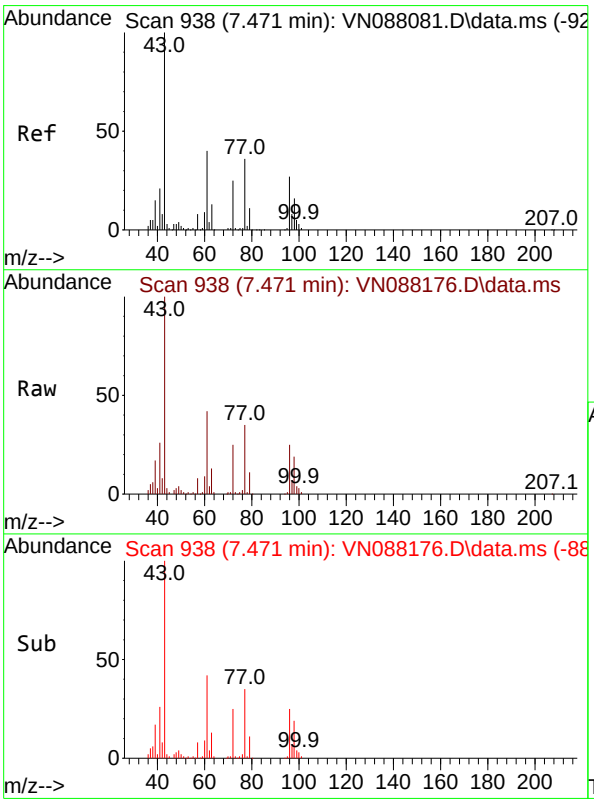
Ion	Ratio	Lower	Upper
43	100		
72	25.4	19.9	29.9



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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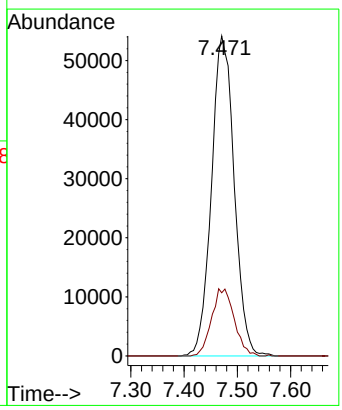
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

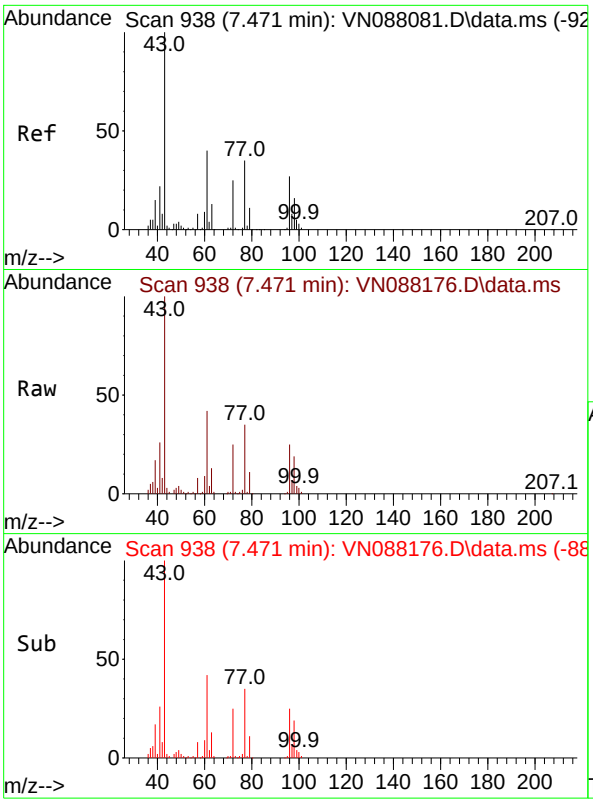


#26
2,2-Dichloropropane
Concen: 18.817 ug/l
RT: 7.471 min Scan# 938
Delta R.T. -0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 77 Resp: 160576

Ion	Ratio	Lower	Upper
77	100		
97	20.9	10.9	32.7





#27
cis-1,2-Dichloroethene
Concen: 18.226 ug/l
RT: 7.471 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

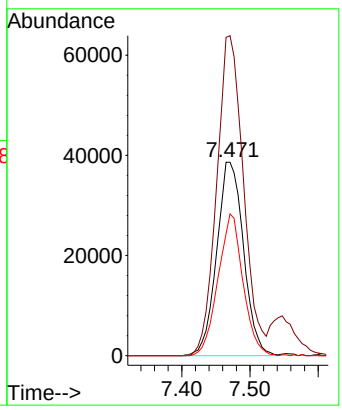
Tgt Ion: 96 Resp: 10591

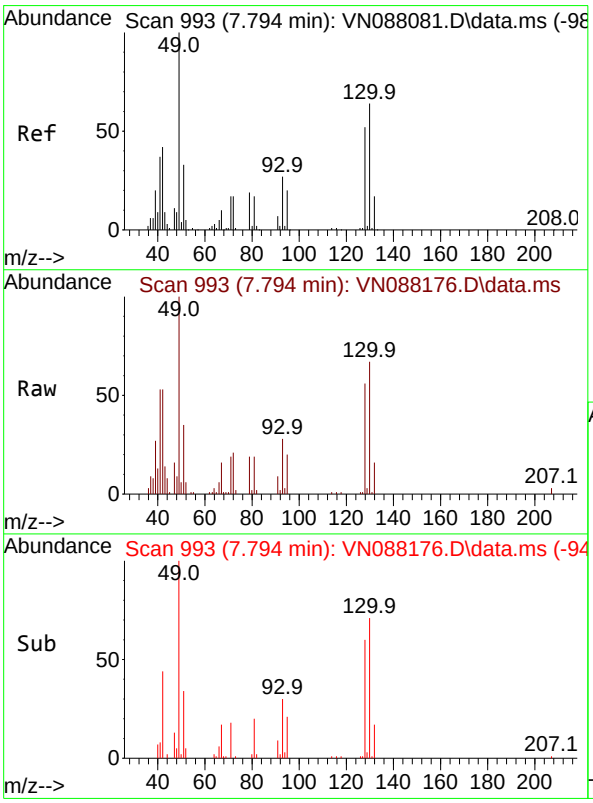
Ion	Ratio	Lower	Upper
96	100		
61	165.0	0.0	301.8
98	67.9	0.0	126.2

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

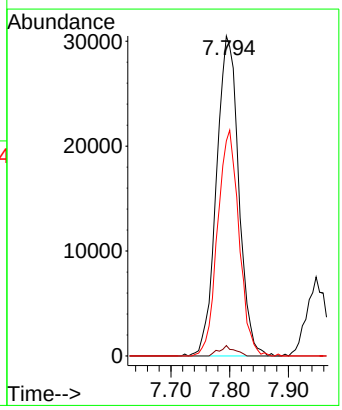


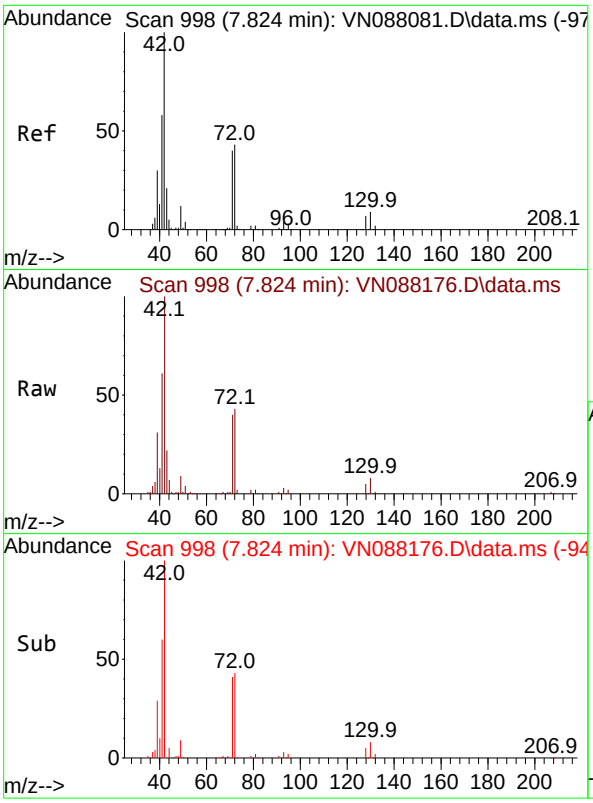


#28
Bromochloromethane
Concen: 18.104 ug/l
RT: 7.794 min Scan# 993
Delta R.T. -0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 49 Resp: 80331

Ion	Ratio	Lower	Upper
49	100		
129	2.3	0.0	3.0
130	67.9	53.1	79.7

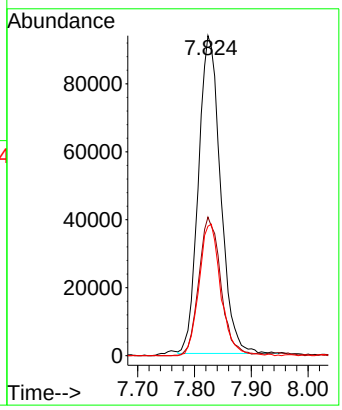




#29
Tetrahydrofuran
Concen: 92.616 ug/l
RT: 7.824 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 42 Resp: 25284

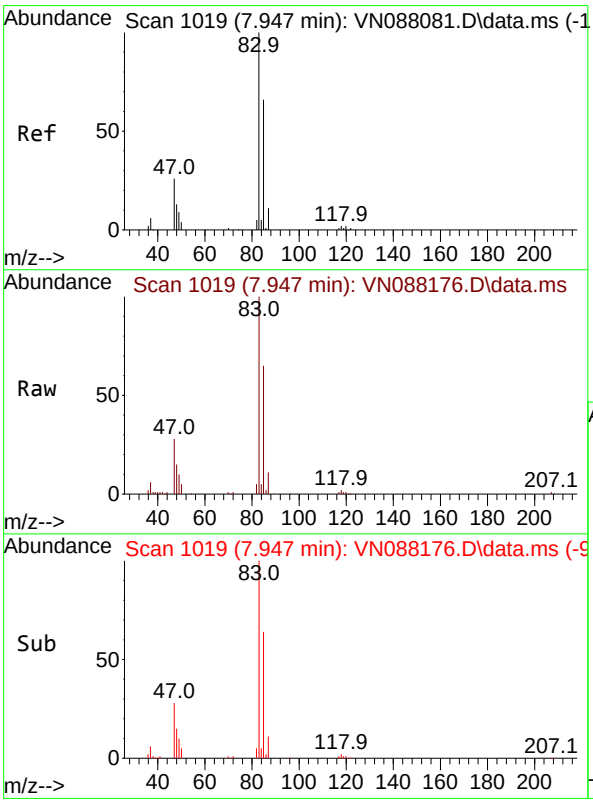
Ion	Ratio	Lower	Upper
42	100		
72	43.4	33.7	50.5
71	40.8	31.9	47.9



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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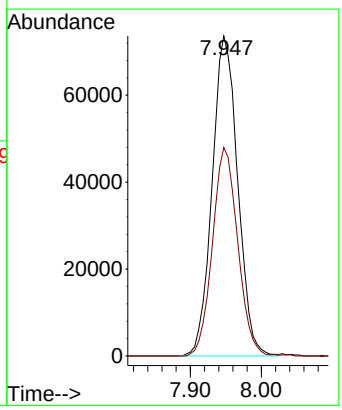
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

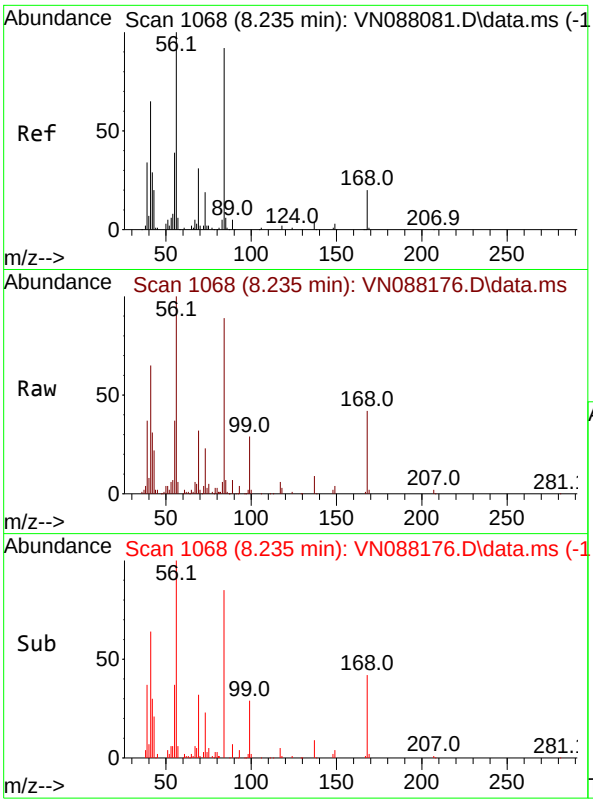


#30
Chloroform
Concen: 19.566 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 83 Resp: 183559

Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.7	76.1





#31
Cyclohexane
Concen: 19.077 ug/l
RT: 8.235 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

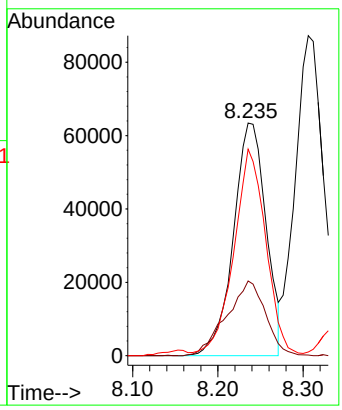
Tgt Ion: 56 Resp: 16896

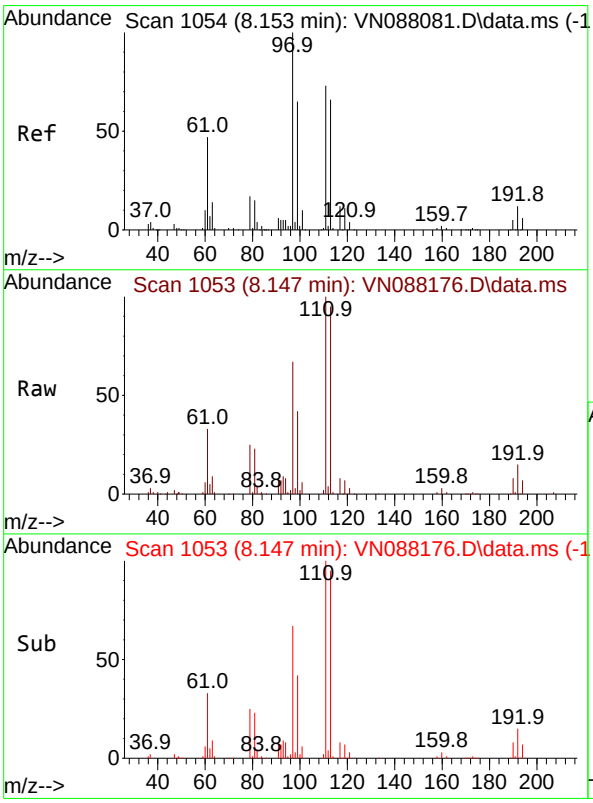
Ion	Ratio	Lower	Upper
56	100		
69	32.1	23.7	35.5
84	86.2	64.7	97.1

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

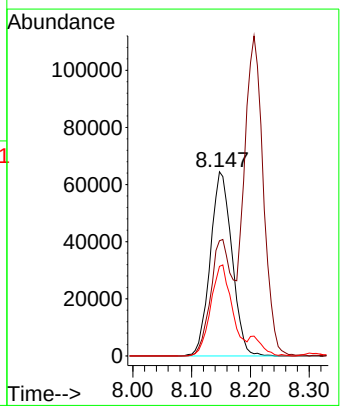


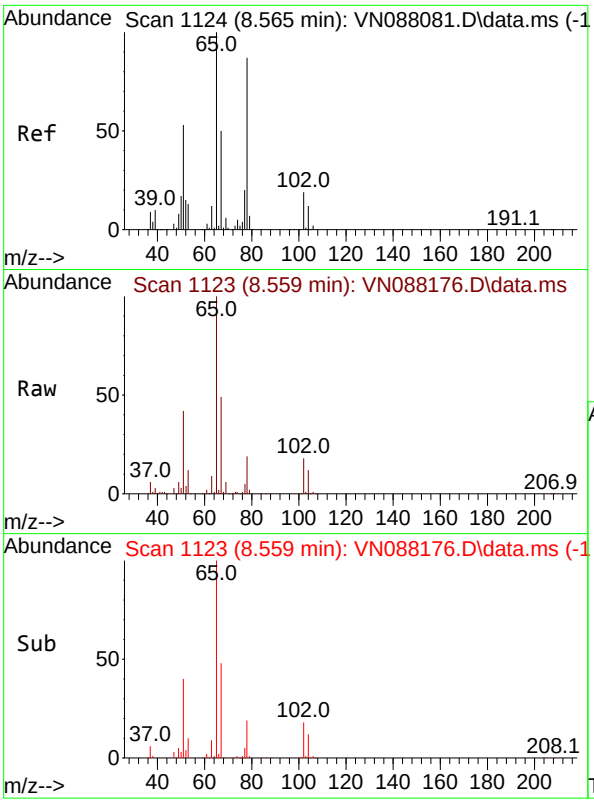


#32
1,1,1-Trichloroethane
Concen: 19.784 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 97 Resp: 165303

Ion	Ratio	Lower	Upper
97	100		
99	64.2	52.2	78.2
61	49.3	41.2	61.8

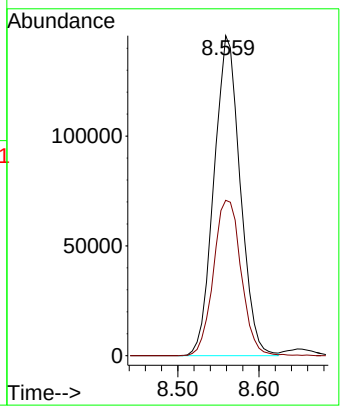




#33
1,2-Dichloroethane-d4
Concen: 51.760 ug/l
RT: 8.559 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 65 Resp: 32749

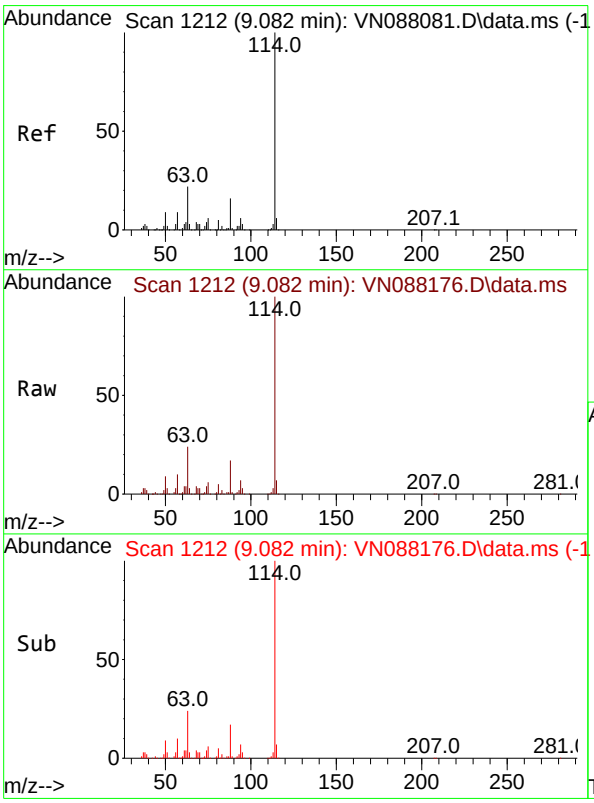
Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	100.0



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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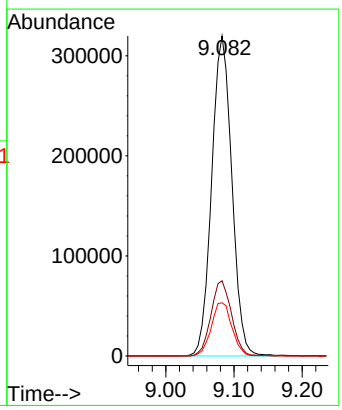
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

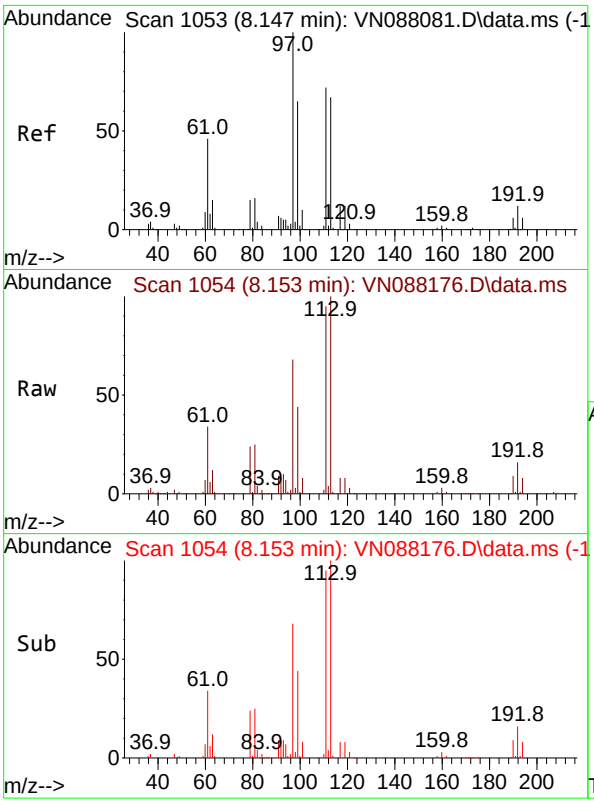


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:114 Resp: 658623

Ion	Ratio	Lower	Upper
114	100		
63	23.5	0.0	45.2
88	16.6	0.0	33.4

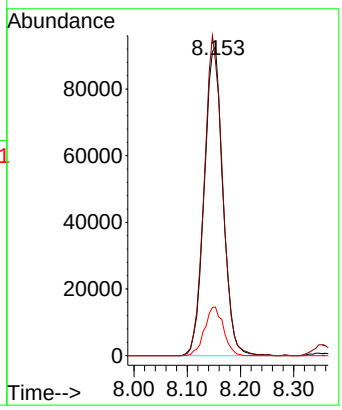




#35
Dibromofluoromethane
Concen: 51.011 ug/l
RT: 8.153 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:113 Resp: 22570

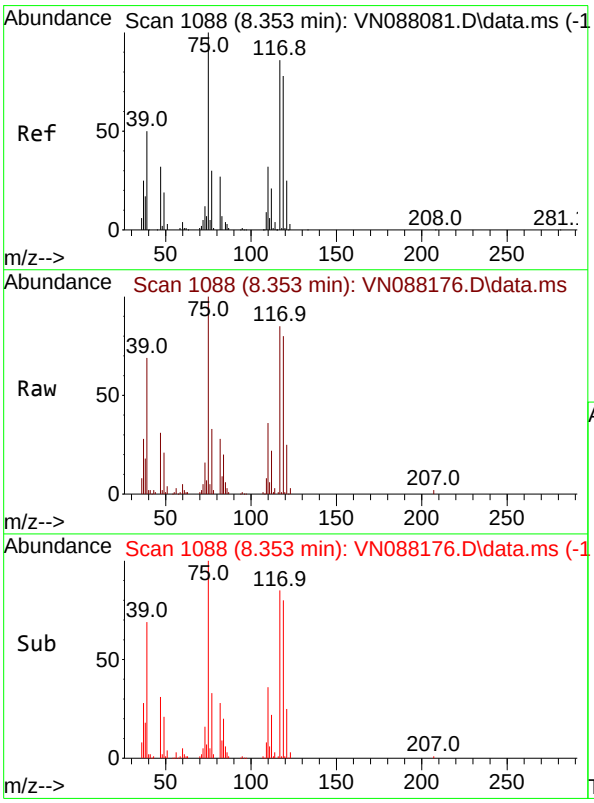
Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.8	124.2
192	16.0	12.8	19.2



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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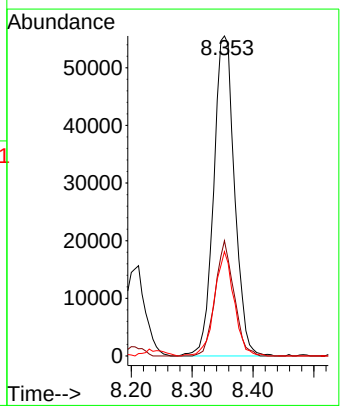
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

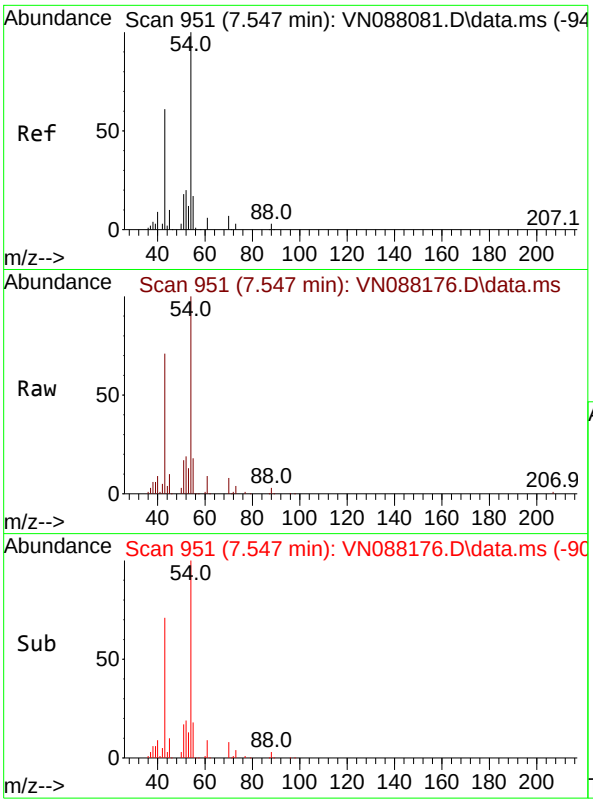


#36
1,1-Dichloropropene
Concen: 20.454 ug/l
RT: 8.353 min Scan# 1088
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 75 Resp: 132144

Ion	Ratio	Lower	Upper
75	100		
110	32.6	15.9	47.6
77	30.8	24.4	36.6





#37
Ethyl Acetate
Concen: 19.590 ug/l
RT: 7.547 min Scan# 9
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

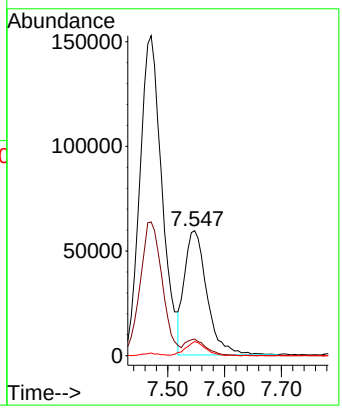
Tgt Ion: 43 Resp: 16332

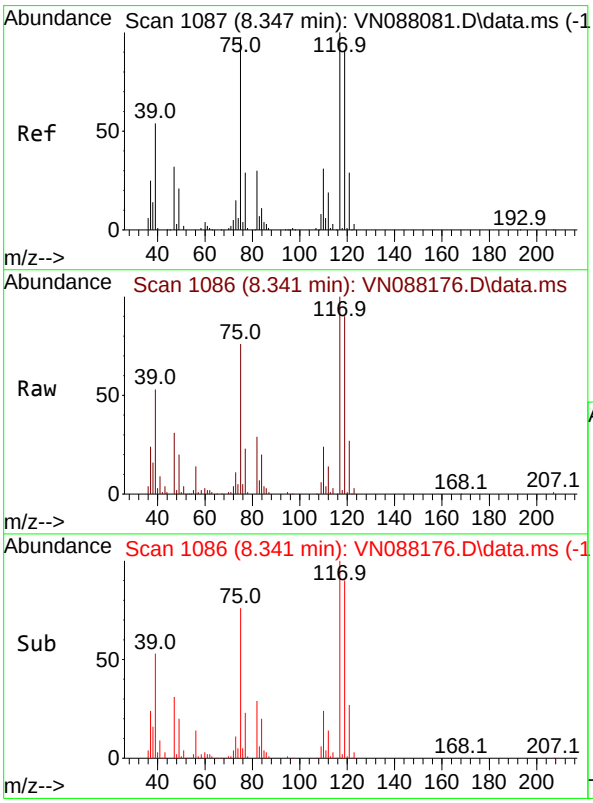
Ion	Ratio	Lower	Upper
43	100		
61	12.4	9.3	13.9
70	9.6	7.0	10.6

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

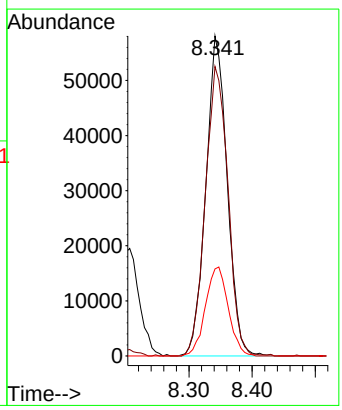


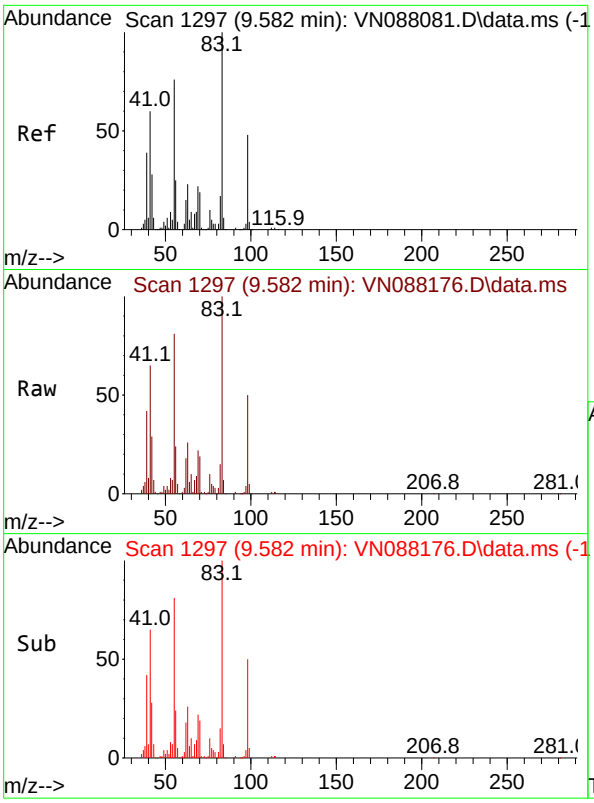


#38
Carbon Tetrachloride
Concen: 20.452 ug/l
RT: 8.341 min Scan# 1086
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:117 Resp: 136470

Ion	Ratio	Lower	Upper
117	100		
119	90.4	79.0	118.6
121	27.2	25.0	37.6

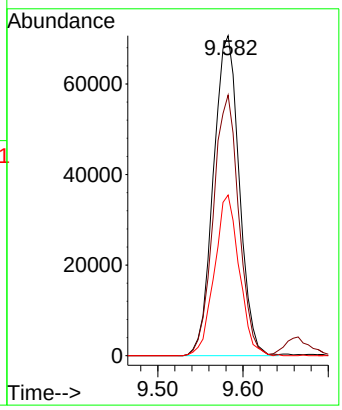




#39
Methylcyclohexane
Concen: 17.942 ug/l
RT: 9.582 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 83 Resp: 14899

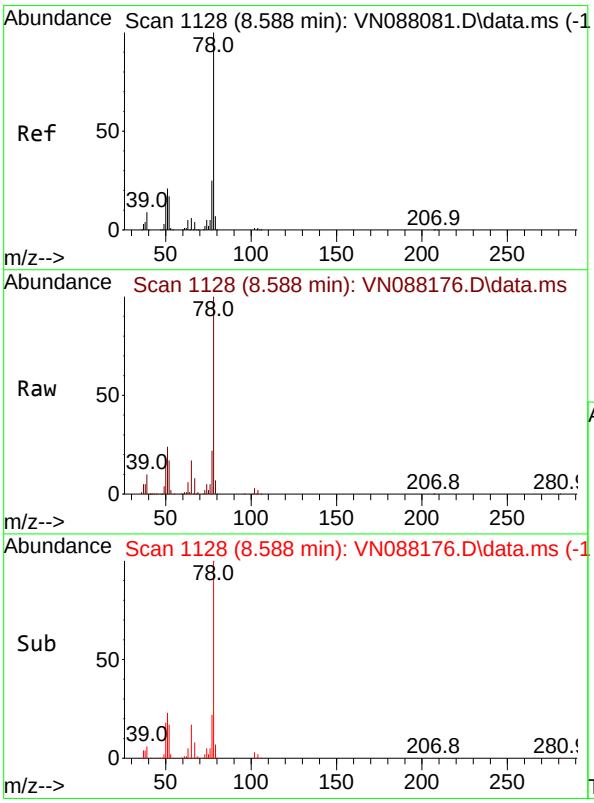
Ion	Ratio	Lower	Upper
83	100		
55	81.5	64.6	96.8
98	50.2	38.4	57.6



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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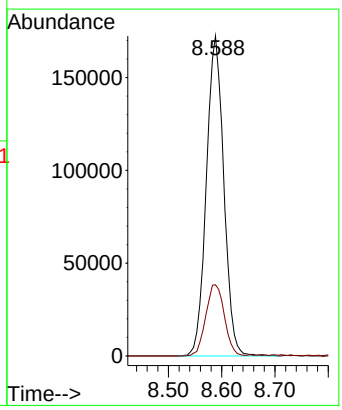
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

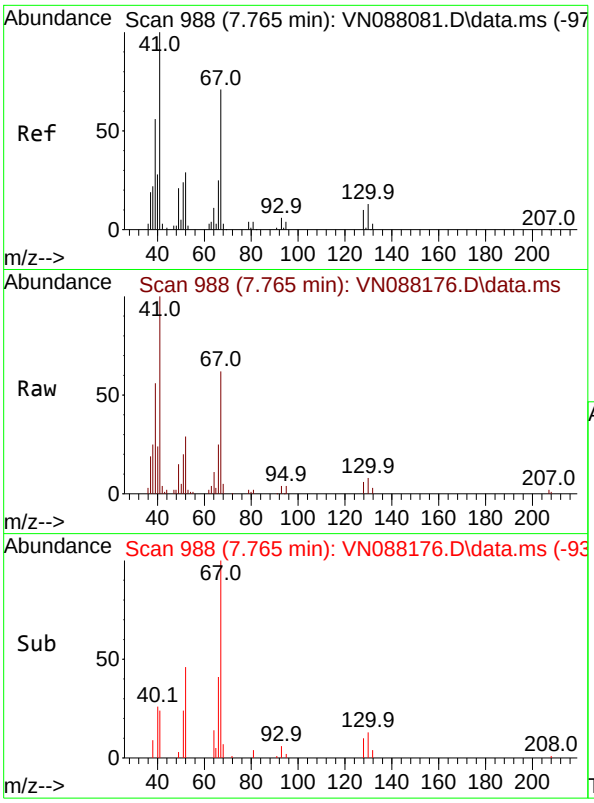


#40
Benzene
Concen: 19.933 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 78 Resp: 392192

Ion	Ratio	Lower	Upper
78	100		
77	22.2	19.7	29.5

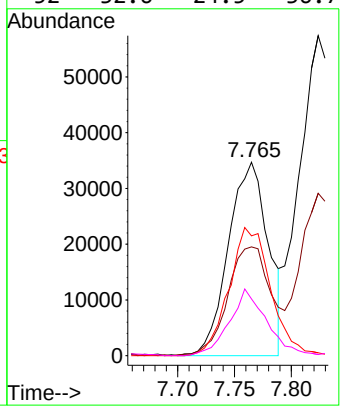




#41
Methacrylonitrile
Concen: 19.331 ug/l
RT: 7.765 min Scan# 9
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

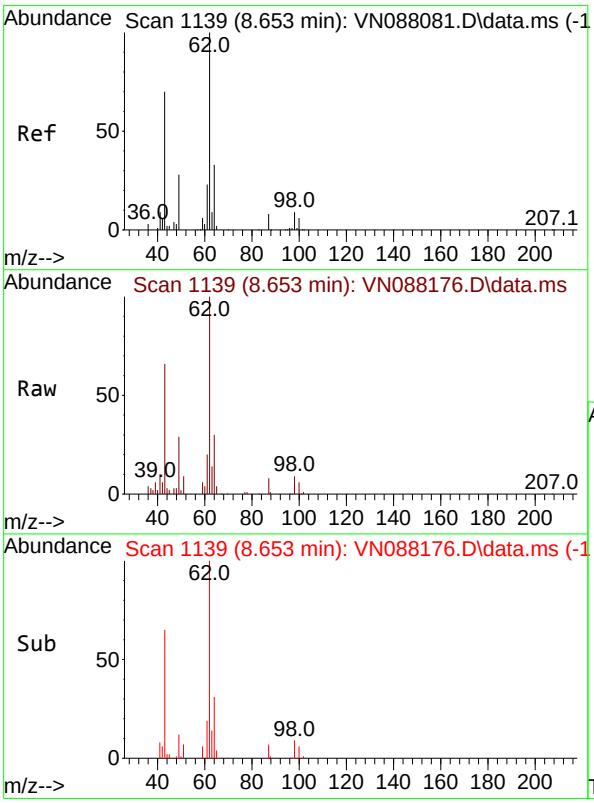
Tgt Ion: 41 Resp: 8482

Ion	Ratio	Lower	Upper
41	100		
39	62.6	45.4	68.0
67	69.2	55.3	82.9
52	32.6	24.5	36.7



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

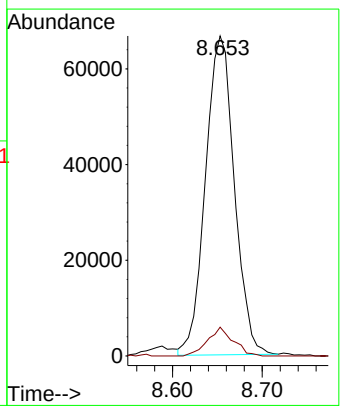
Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

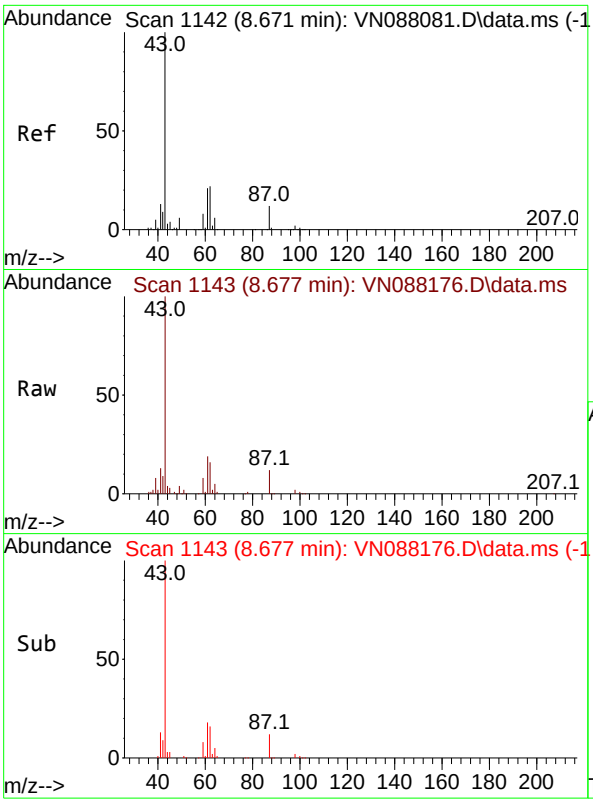


#42
1,2-Dichloroethane
Concen: 21.328 ug/l
RT: 8.653 min Scan# 1139
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 62 Resp: 149103

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	17.4

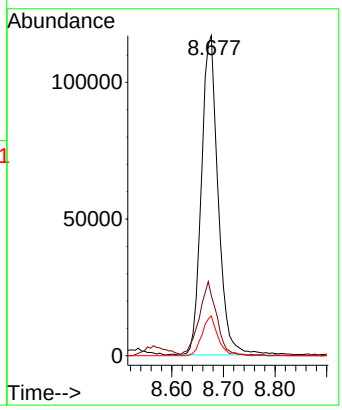




#43
Isopropyl Acetate
Concen: 20.457 ug/l
RT: 8.677 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 43 Resp: 26207

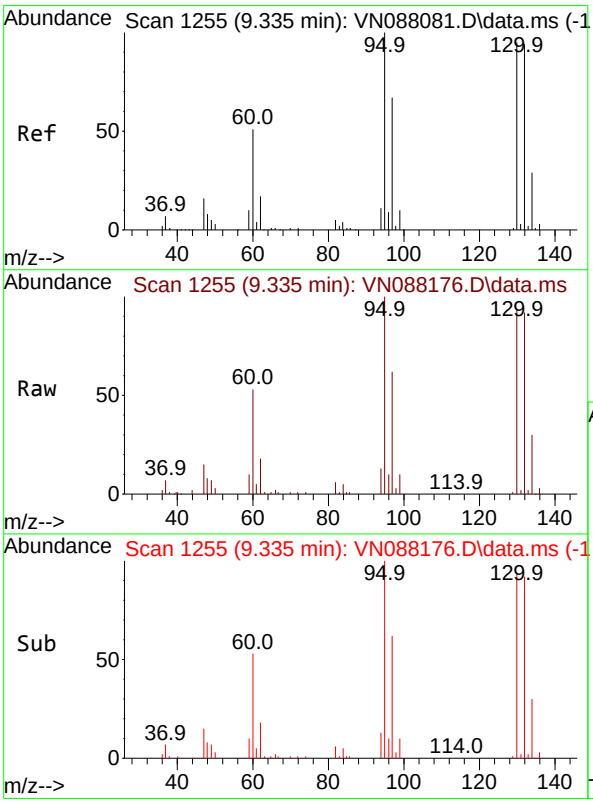
Ion	Ratio	Lower	Upper
43	100		
61	24.0	18.8	28.2
87	11.8	9.6	14.4



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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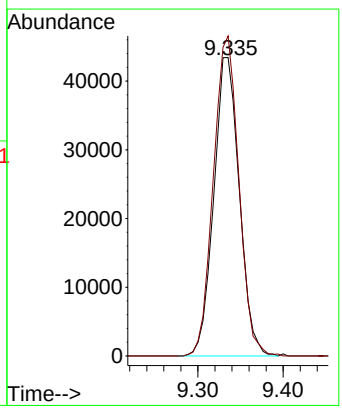
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

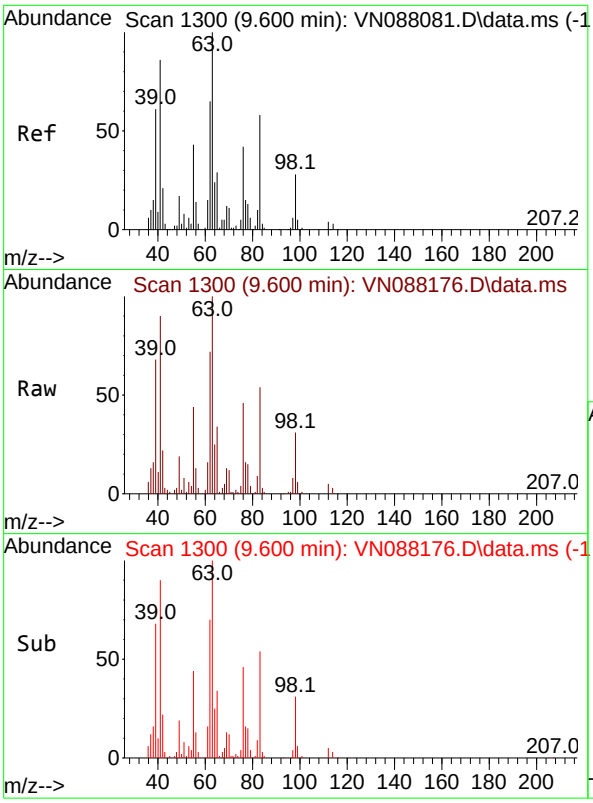


#44
Trichloroethene
Concen: 19.664 ug/l
RT: 9.335 min Scan# 1255
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:130 Resp: 90431

Ion	Ratio	Lower	Upper
130	100		
95	107.2	0.0	212.0

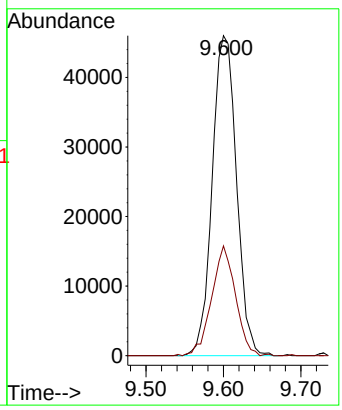




#45
1,2-Dichloropropane
Concen: 20.160 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 63 Resp: 10014

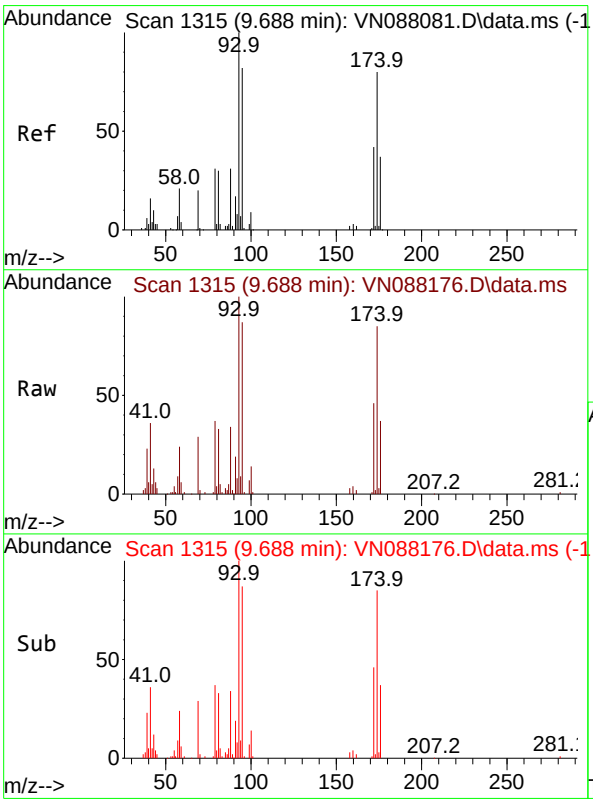
Ion	Ratio	Lower	Upper
63	100		
65	34.3	25.0	37.4



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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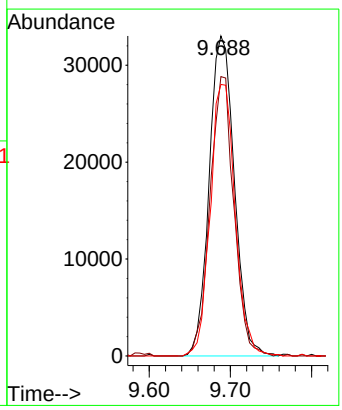
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

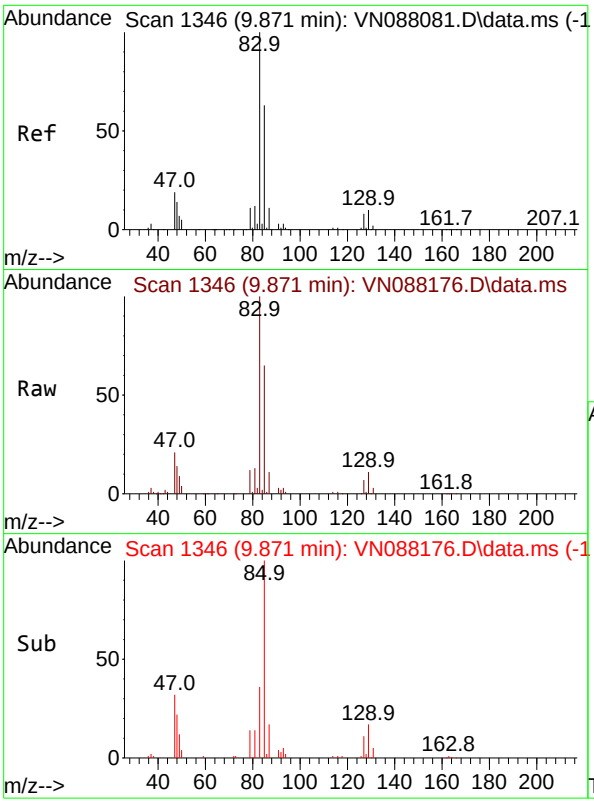


#46
Dibromomethane
Concen: 20.131 ug/l
RT: 9.688 min Scan# 1315
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 93 Resp: 71318

Ion	Ratio	Lower	Upper
93	100		
95	82.6	66.2	99.4
174	83.9	63.4	95.2

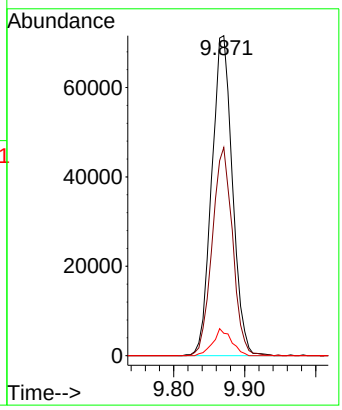




#47
Bromodichloromethane
Concen: 20.448 ug/l
RT: 9.871 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 83 Resp: 14503

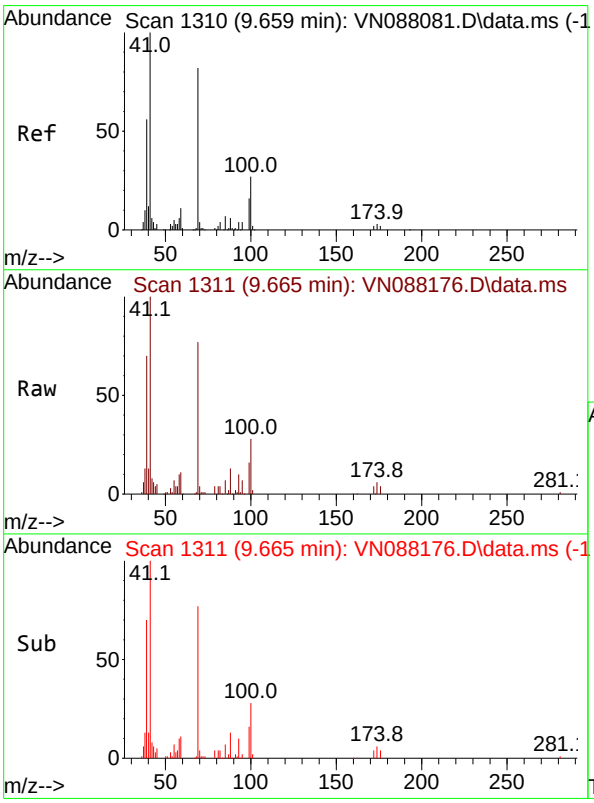
Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.5	78.7
127	7.0	5.8	8.6



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

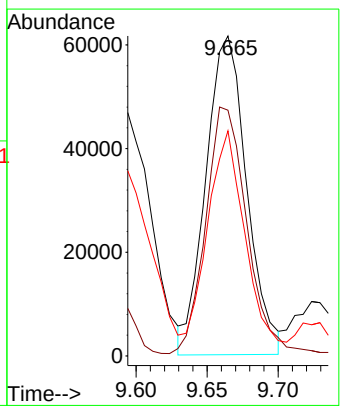
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

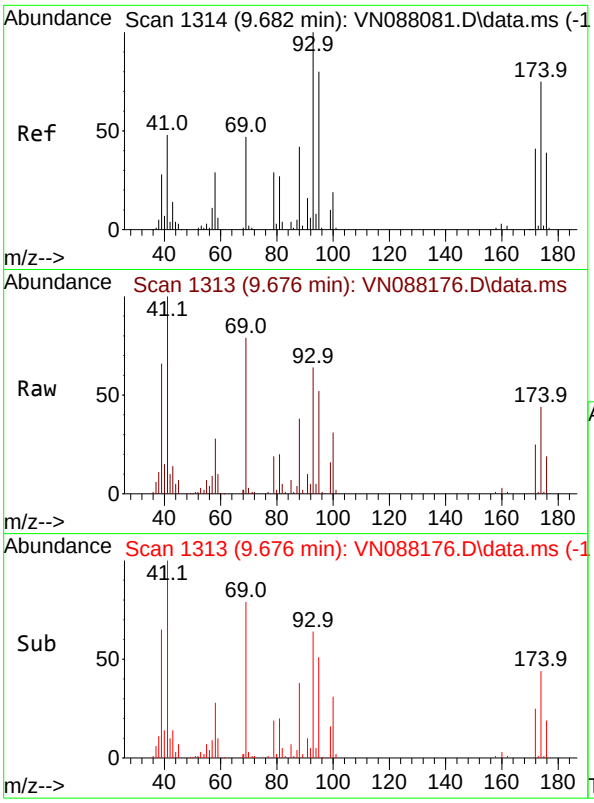


#48
Methyl methacrylate
Concen: 20.820 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 41 Resp: 123141

Ion	Ratio	Lower	Upper
41	100		
69	79.9	62.7	94.1
39	66.6	52.9	79.3

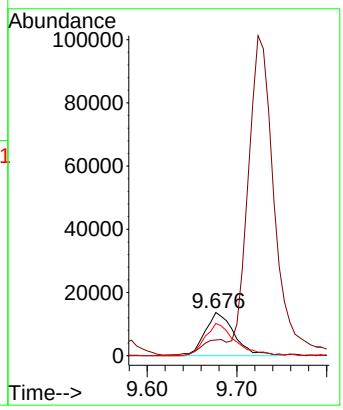




#49
1,4-Dioxane
Concen: 415.673 ug/l
RT: 9.676 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 88 Resp: 3057

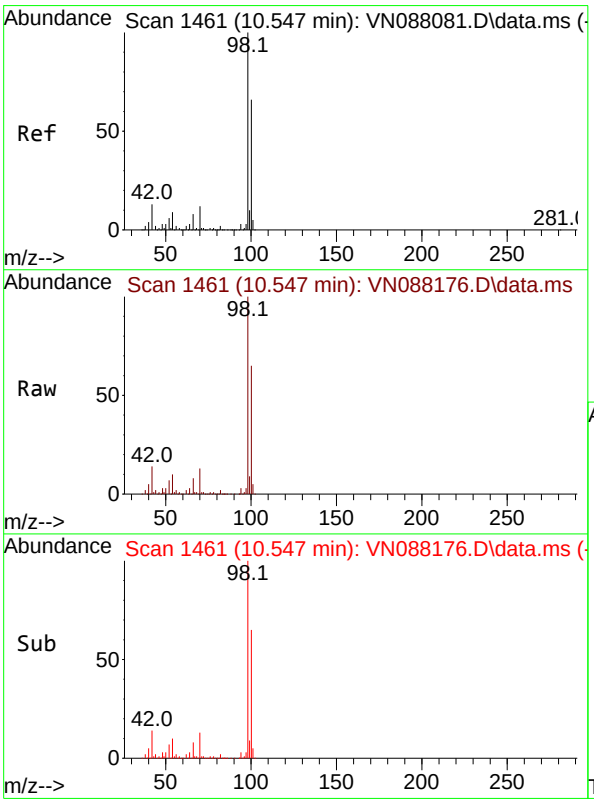
Ion	Ratio	Lower	Upper
88	100		
43	29.9	0.0	0.0
58	78.9	57.9	86.9



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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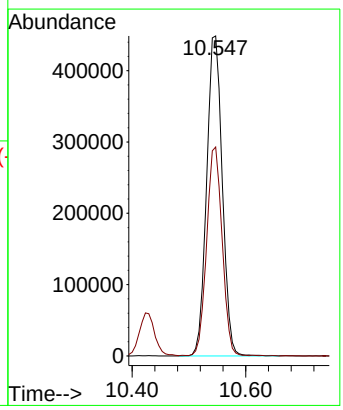
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

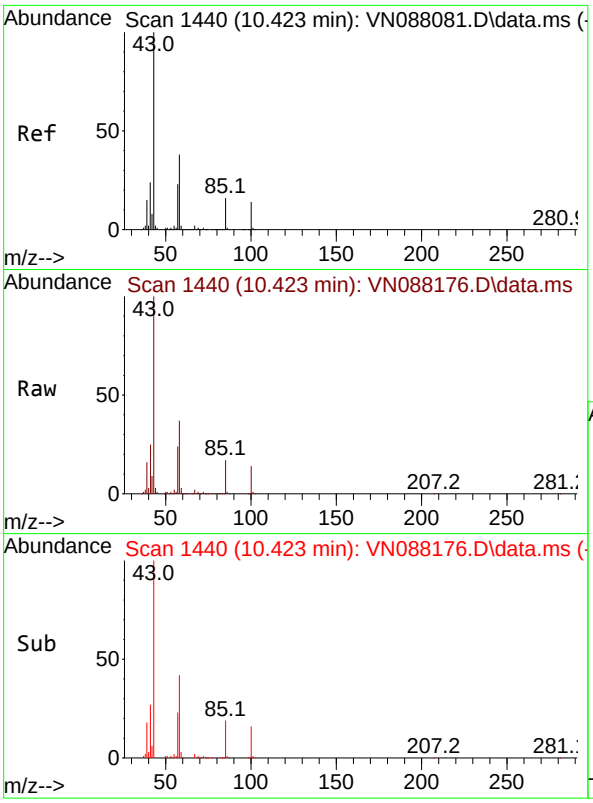


#50
Toluene-d8
Concen: 50.071 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 98 Resp: 853668

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.8	79.2





#51
4-Methyl-2-Pentanone
Concen: 105.127 ug/l
RT: 10.423 min Scan# 14
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

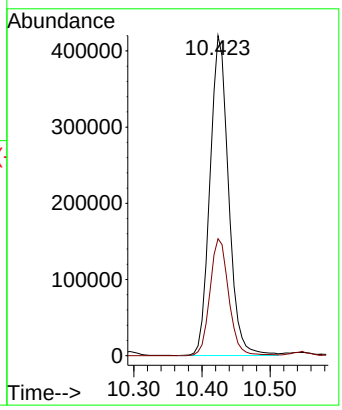
Tgt Ion: 43 Resp: 79674

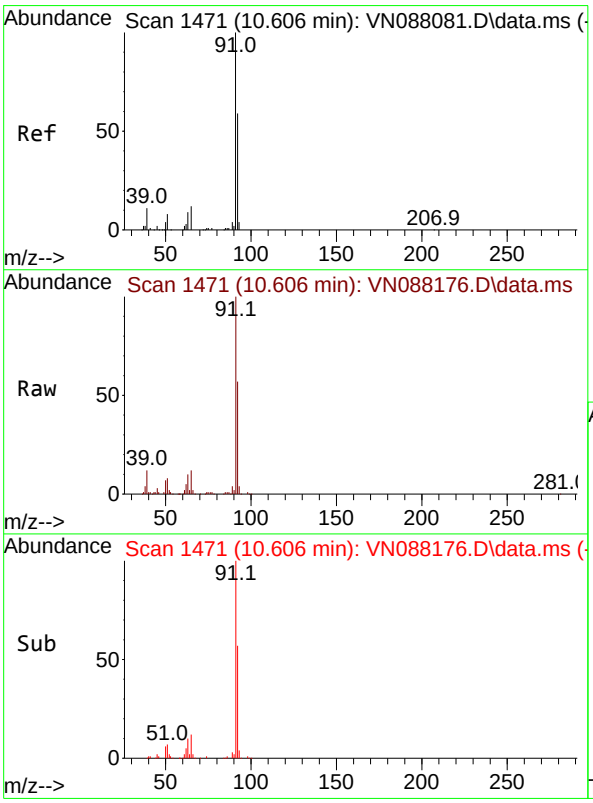
Ion	Ratio	Lower	Upper
43	100		
58	36.9	29.6	44.4

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

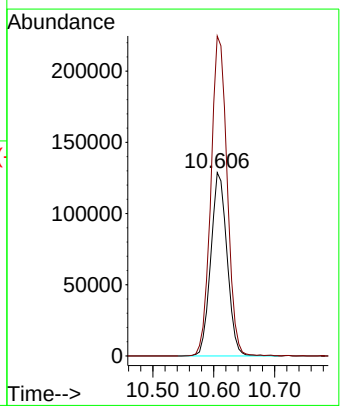


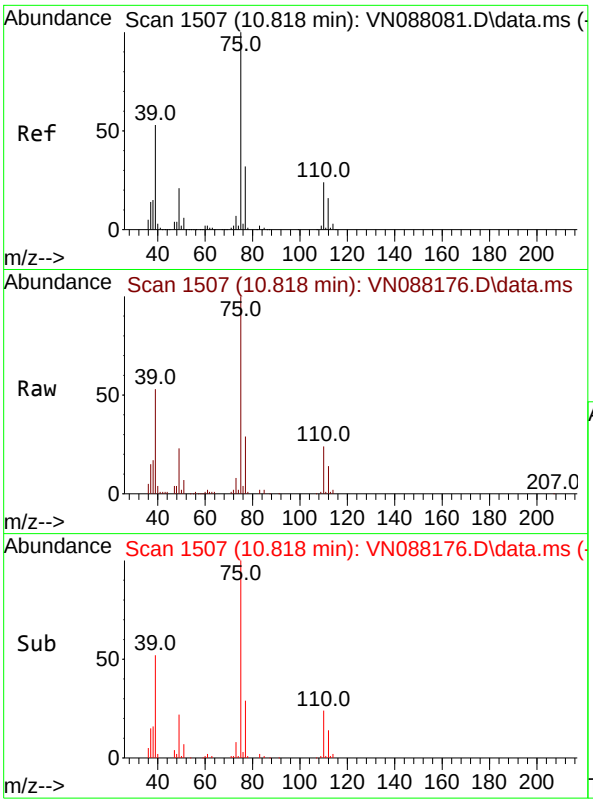


#52
Toluene
Concen: 19.682 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 92 Resp: 238757

Ion	Ratio	Lower	Upper
92	100		
91	174.5	140.4	210.6

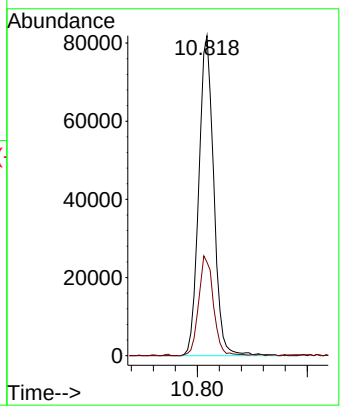




#53
t-1,3-Dichloropropene
Concen: 20.461 ug/l
RT: 10.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 75 Resp: 15445

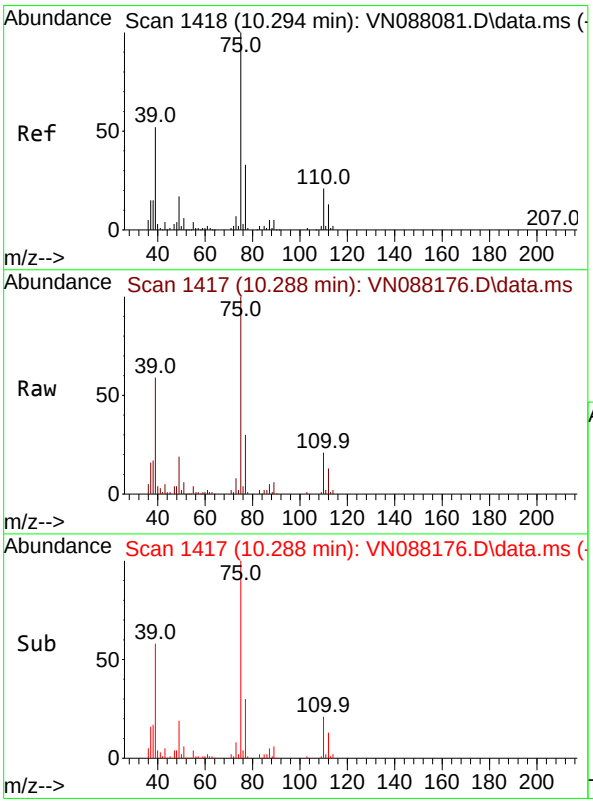
Ion	Ratio	Lower	Upper
75	100		
77	29.2	25.2	37.8



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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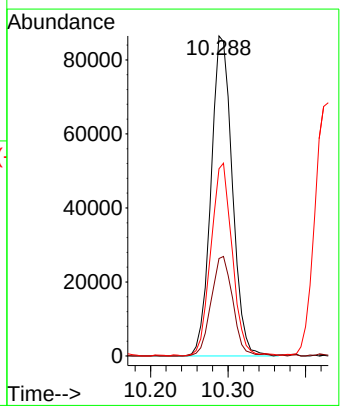
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

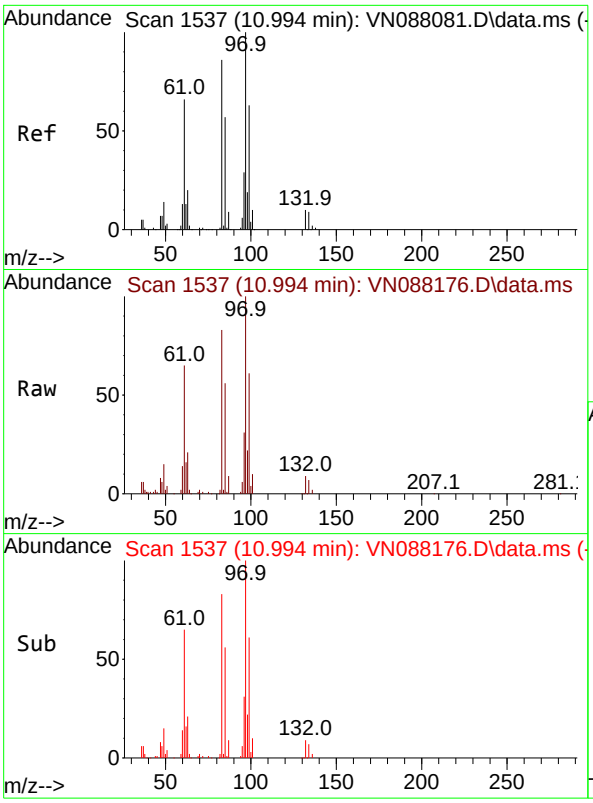


#54
cis-1,3-Dichloropropene
Concen: 20.674 ug/l
RT: 10.288 min Scan# 1417
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 75 Resp: 165605

Ion	Ratio	Lower	Upper
75	100		
77	30.4	24.6	37.0
39	58.3	45.2	67.8

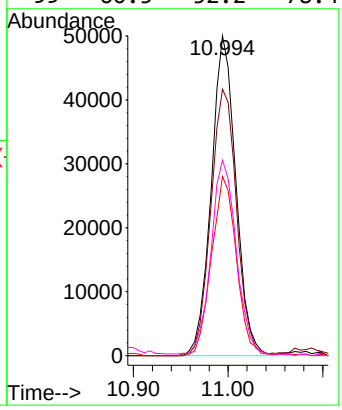




#55
1,1,2-Trichloroethane
Concen: 19.610 ug/l
RT: 10.994 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 97 Resp: 9024

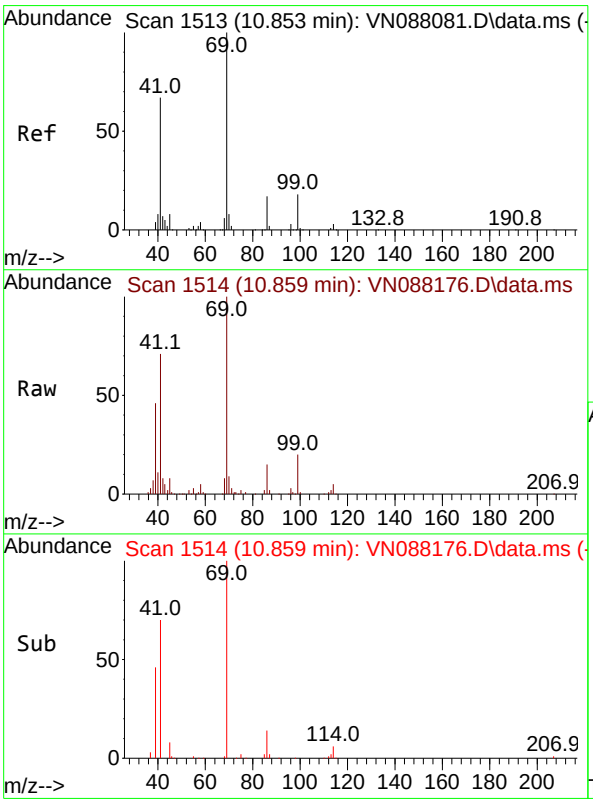
Ion	Ratio	Lower	Upper
97	100		
83	83.3	68.2	102.4
85	56.1	45.5	68.3
99	60.5	52.2	78.4



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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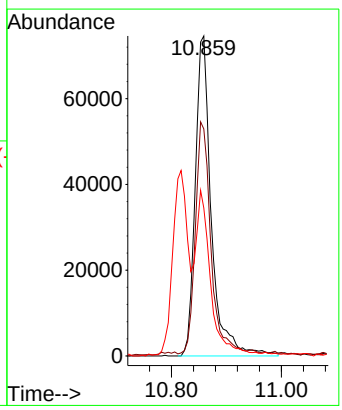
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

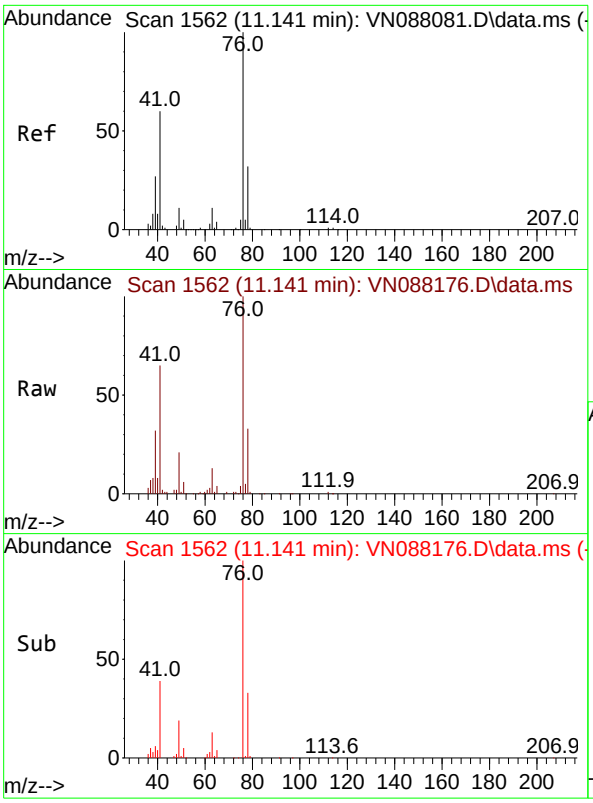


#56
Ethyl methacrylate
Concen: 20.898 ug/l
RT: 10.859 min Scan# 1514
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 69 Resp: 152199

Ion	Ratio	Lower	Upper
69	100		
41	69.5	56.5	84.7
39	46.9	34.2	51.4

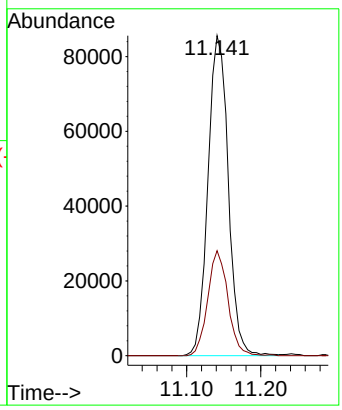




#57
1,3-Dichloropropane
Concen: 20.104 ug/l
RT: 11.141 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 76 Resp: 16262

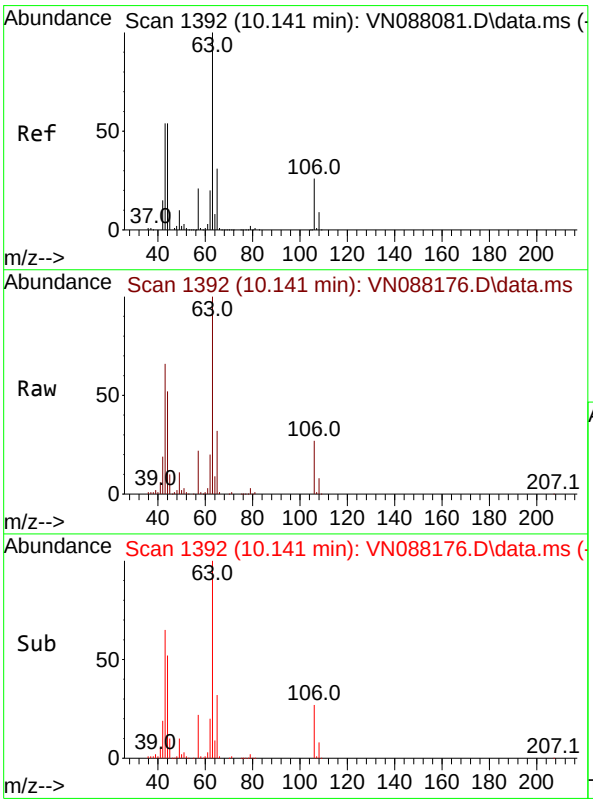
Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.2	39.4



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

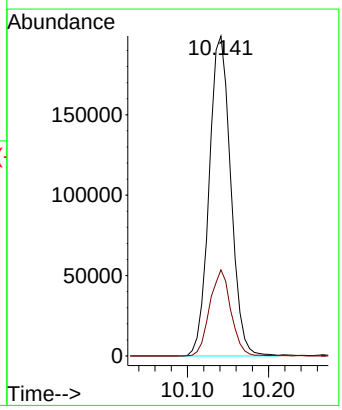
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

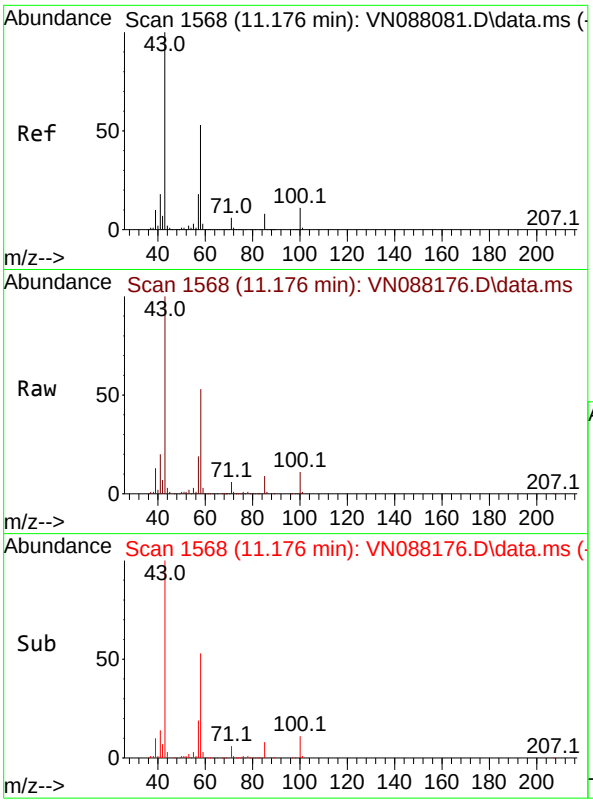


#58
2-Chloroethyl Vinyl ether
Concen: 96.998 ug/l
RT: 10.141 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 63 Resp: 367462

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.1	31.7

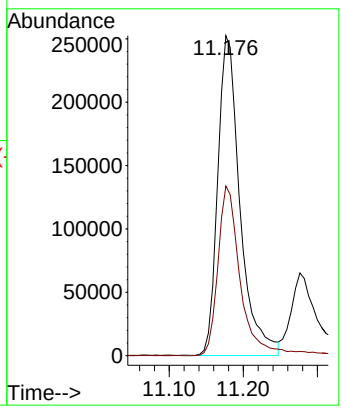




#59
2-Hexanone
Concen: 104.526 ug/l
RT: 11.176 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 43 Resp: 52552

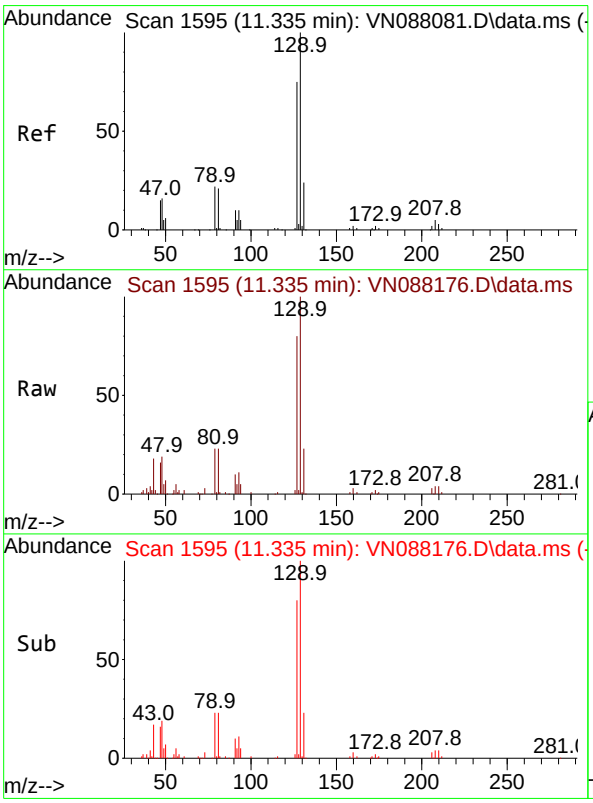
Ion	Ratio	Lower	Upper
43	100		
58	54.8	25.9	77.8



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

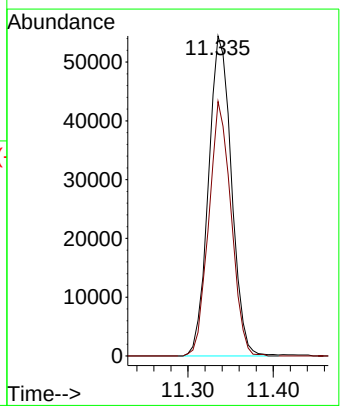
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

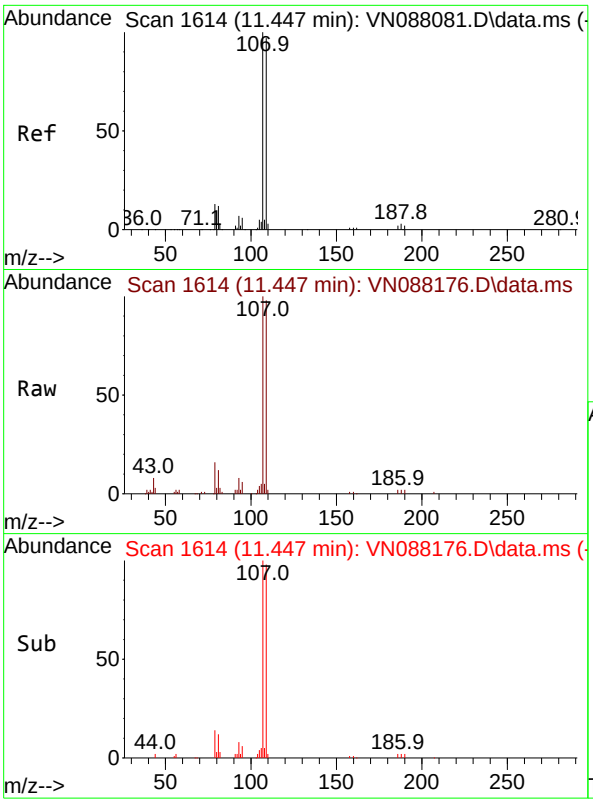


#60
Dibromochloromethane
Concen: 19.525 ug/l
RT: 11.335 min Scan# 1595
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:129 Resp: 102136

Ion	Ratio	Lower	Upper
129	100		
127	76.8	39.1	117.3





#61
1,2-Dibromoethane
Concen: 19.412 ug/l
RT: 11.447 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

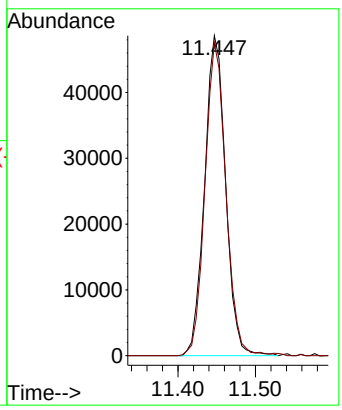
Tgt Ion:107 Resp: 9194

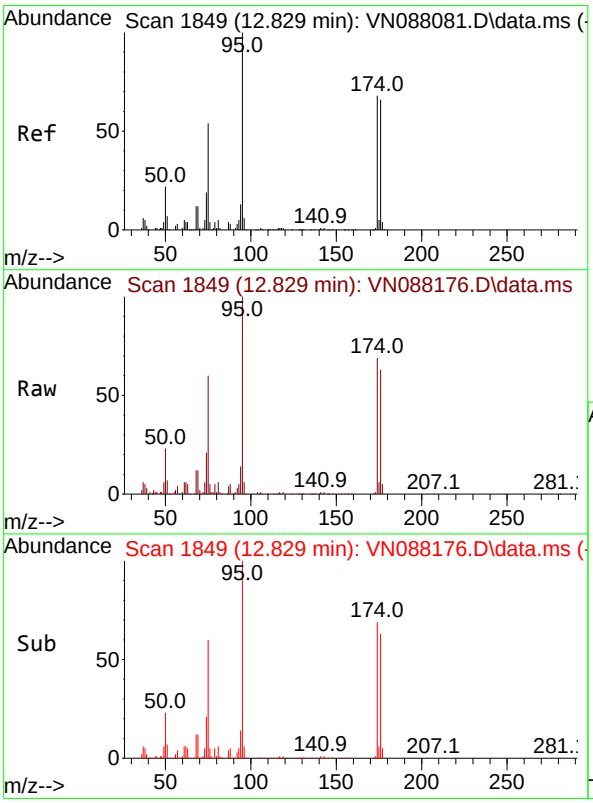
Ion	Ratio	Lower	Upper
107	100		
109	96.8	74.7	112.1

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

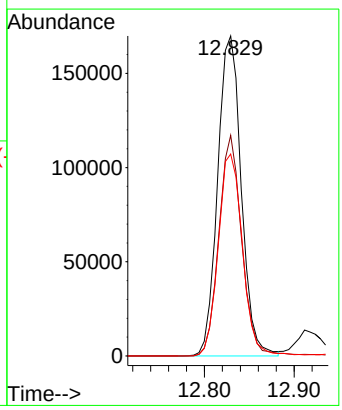


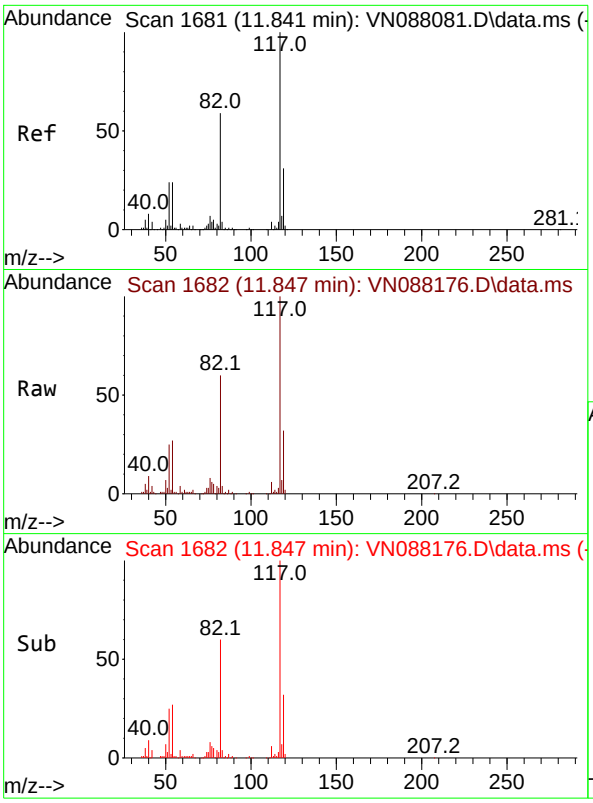


#62
4-Bromofluorobenzene
Concen: 51.557 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 95 Resp: 310429

Ion	Ratio	Lower	Upper
95	100		
174	66.7	0.0	138.4
176	64.8	0.0	132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

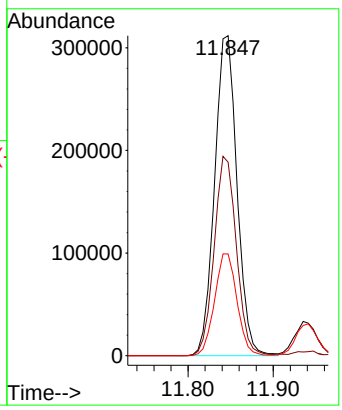
Tgt Ion:117 Resp: 57029

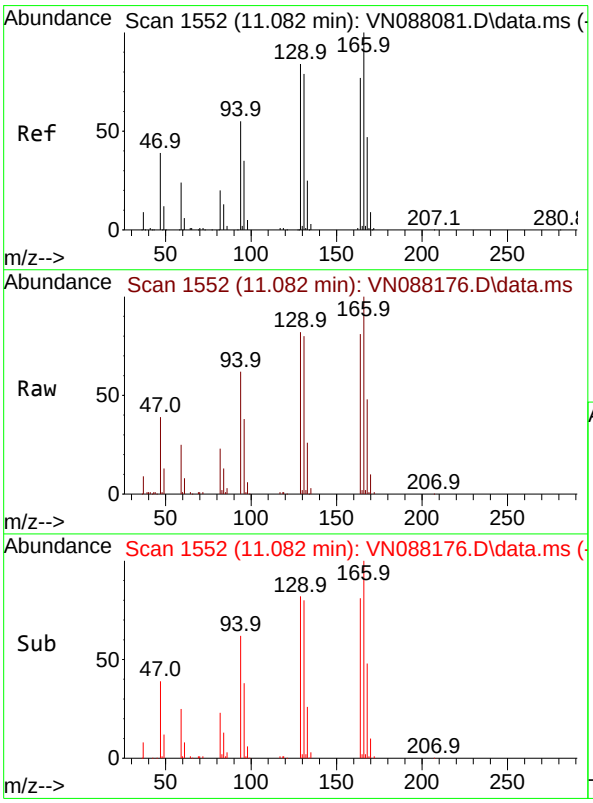
Ion	Ratio	Lower	Upper
117	100		
82	60.5	47.4	71.2
119	31.8	24.3	36.5

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

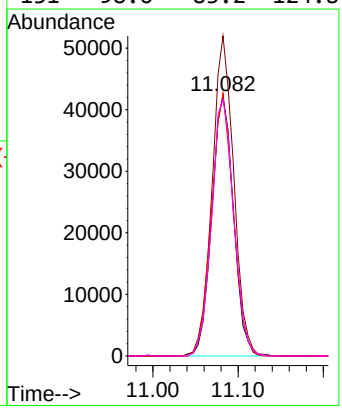


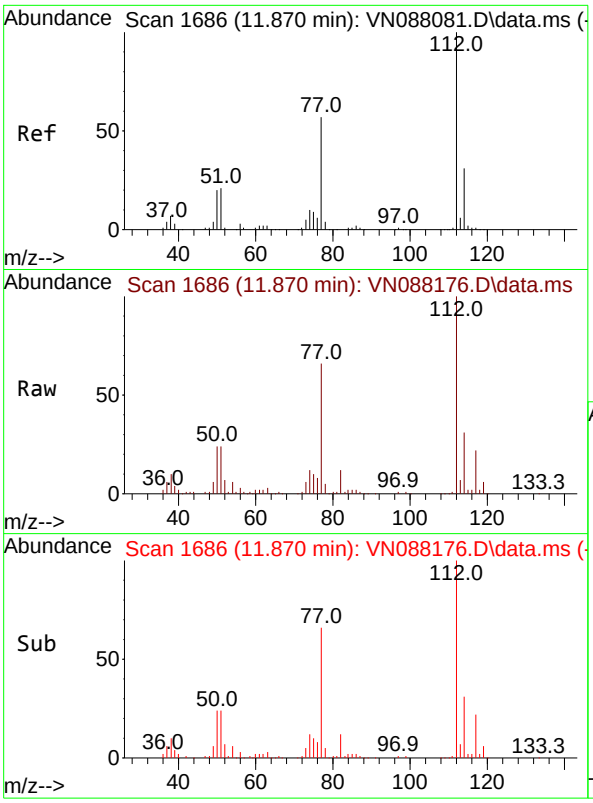


#64
Tetrachloroethene
Concen: 19.846 ug/l
RT: 11.082 min Scan# 1552
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:164 Resp: 74655

Ion	Ratio	Lower	Upper
164	100		
166	123.2	97.7	146.5
129	101.2	85.9	128.9
131	98.6	83.2	124.8

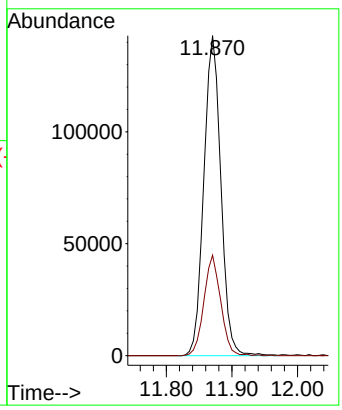




#65
Chlorobenzene
Concen: 19.984 ug/l
RT: 11.870 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:112 Resp: 25878

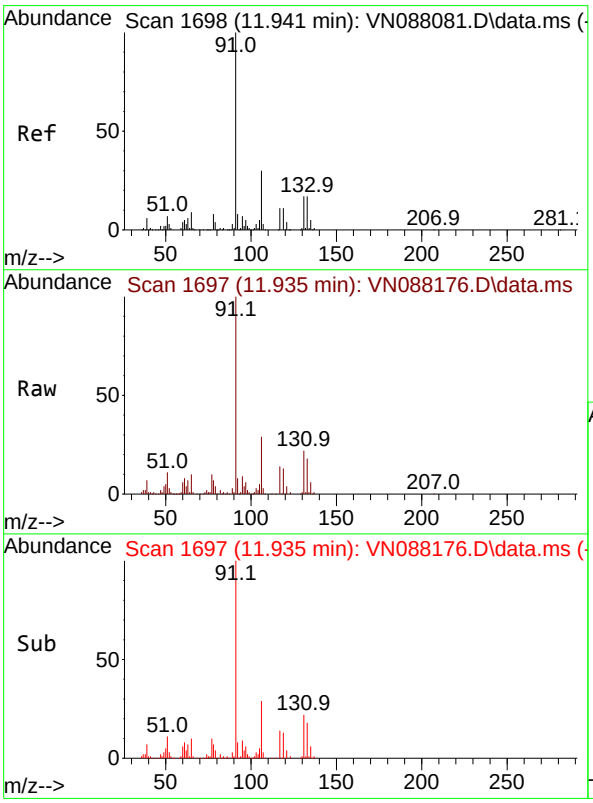
Ion	Ratio	Lower	Upper
112	100		
114	31.4	24.3	36.5



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

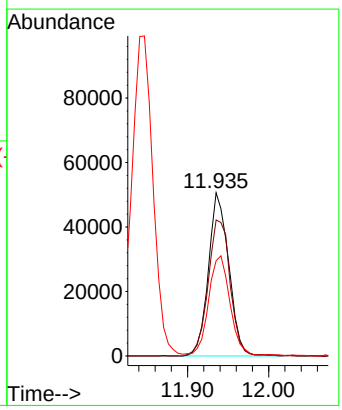
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

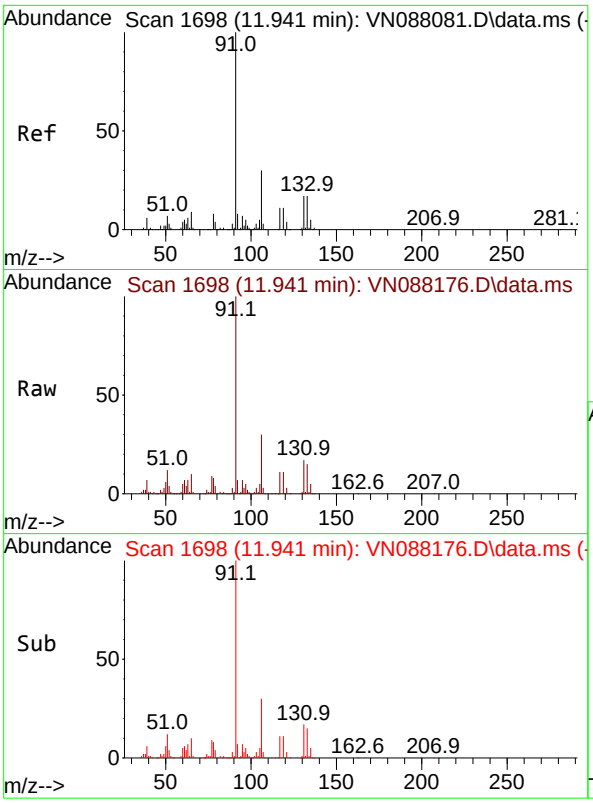


#66
1,1,1,2-Tetrachloroethane
Concen: 20.778 ug/l
RT: 11.935 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:131 Resp: 88152

Ion	Ratio	Lower	Upper
131	100		
133	90.4	48.0	144.0
119	63.2	32.6	97.7

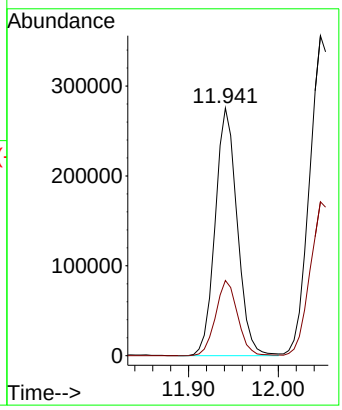




#67
Ethyl Benzene
Concen: 20.666 ug/l
RT: 11.941 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 91 Resp: 46974

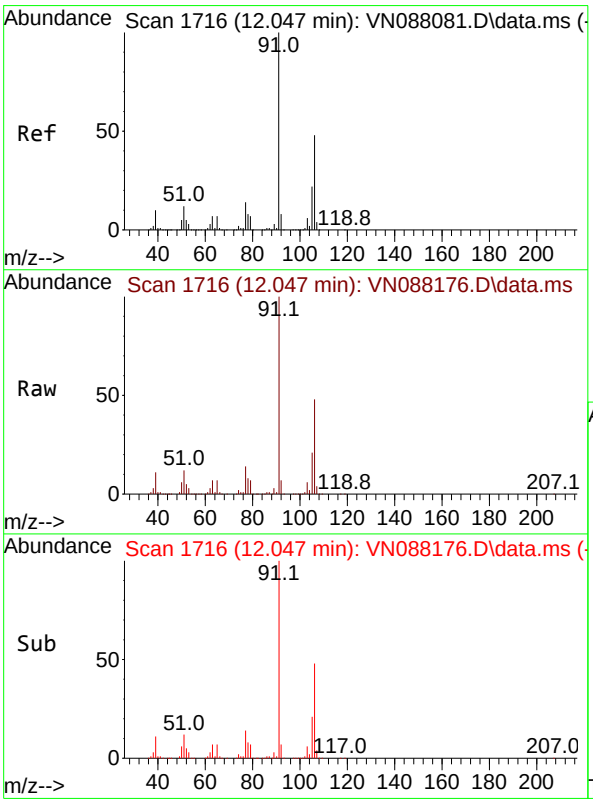
Ion	Ratio	Lower	Upper
91	100		
106	30.4	24.1	36.1



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

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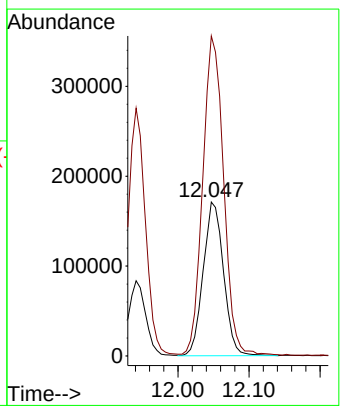
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

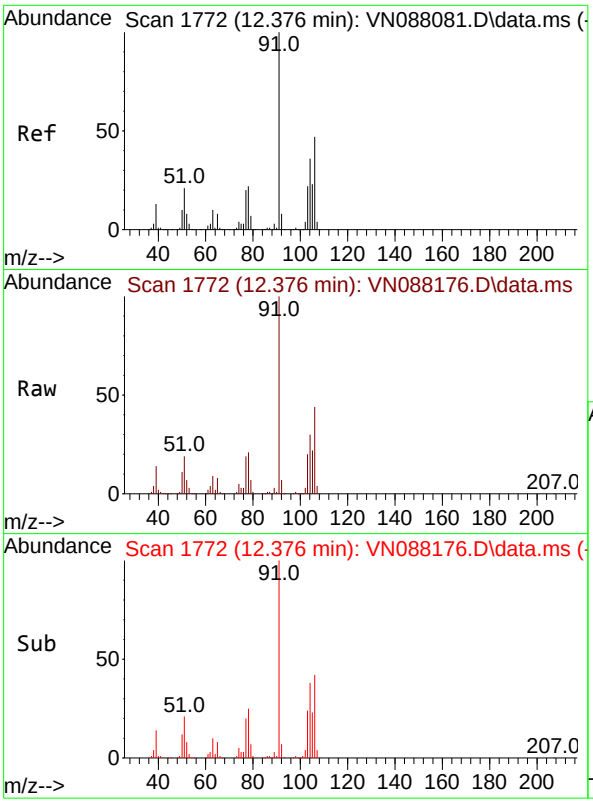


#68
m/p-Xylenes
Concen: 40.102 ug/l
RT: 12.047 min Scan# 1716
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:106 Resp: 341537

Ion	Ratio	Lower	Upper
106	100		
91	212.9	169.3	253.9

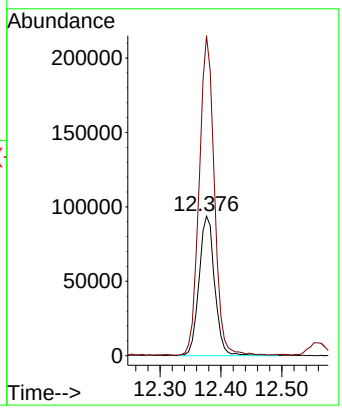




#69
o-Xylene
Concen: 20.736 ug/l
RT: 12.376 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:106 Resp: 16741

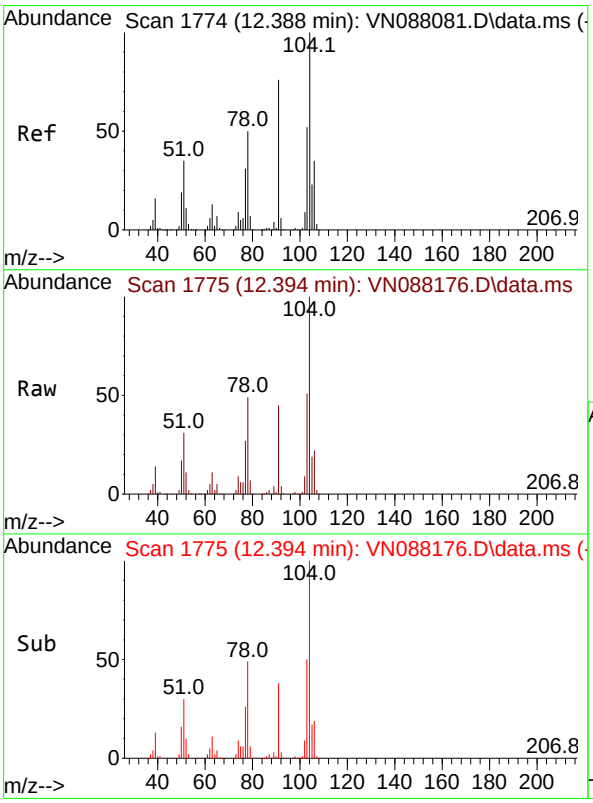
Ion	Ratio	Lower	Upper
106	100		
91	221.4	111.4	334.2



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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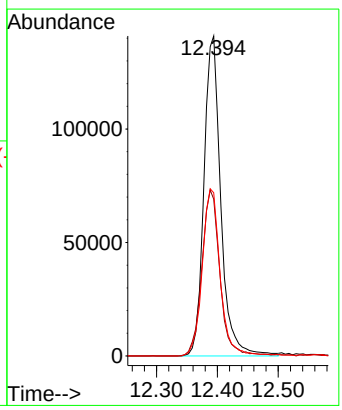
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

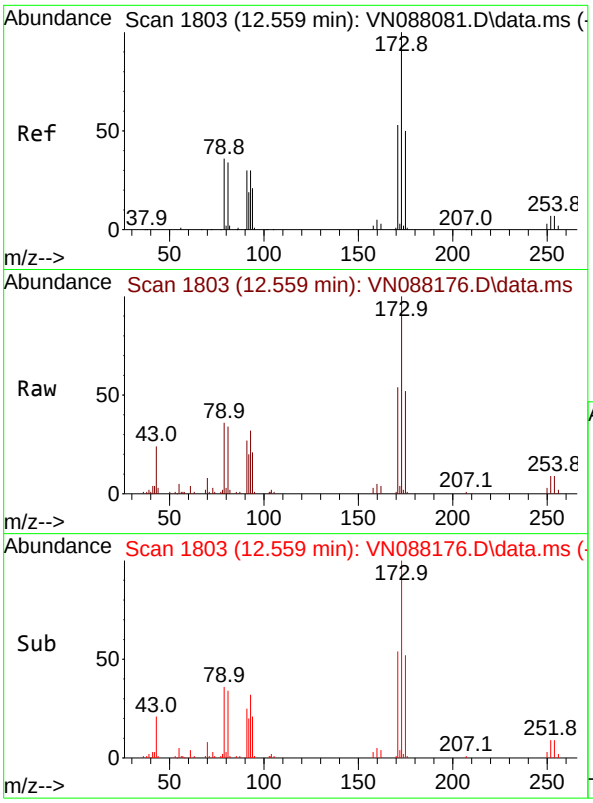


#70
Styrene
Concen: 20.658 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:104 Resp: 271968

Ion	Ratio	Lower	Upper
104	100		
78	55.3	42.2	63.2
103	55.8	43.4	65.2

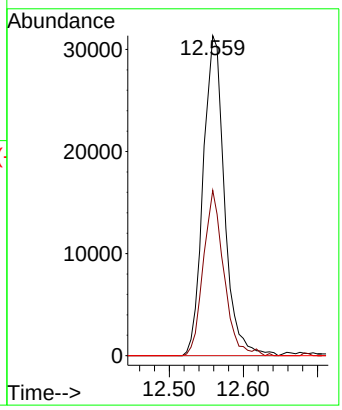




#71
Bromoform
Concen: 19.700 ug/l
RT: 12.559 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

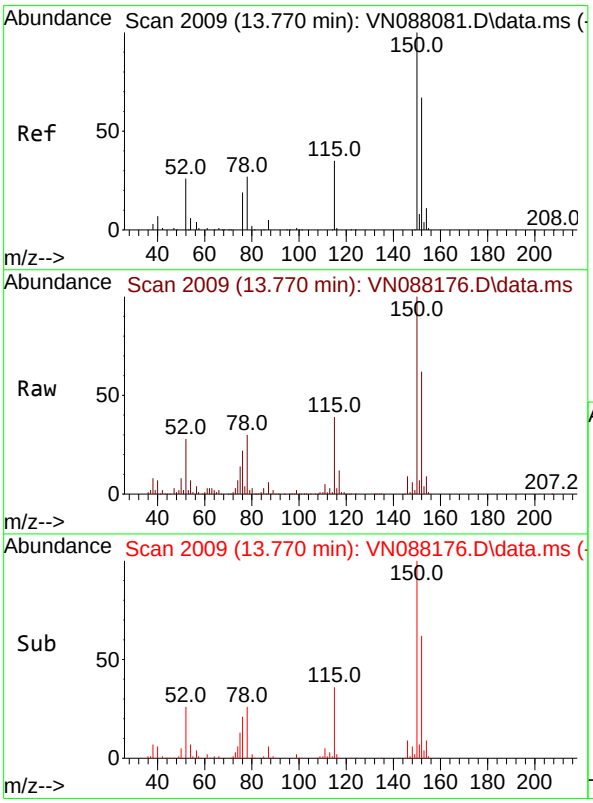
Tgt Ion:173 Resp: 6237

Ion	Ratio	Lower	Upper
173	100		
175	50.0	24.9	74.6
254	0.0	0.1	0.1



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

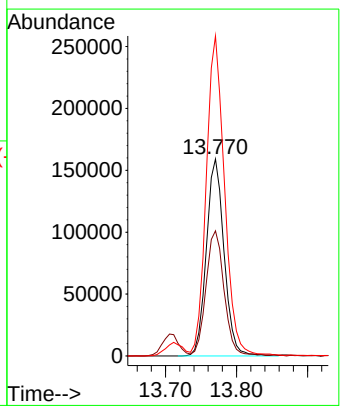
Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

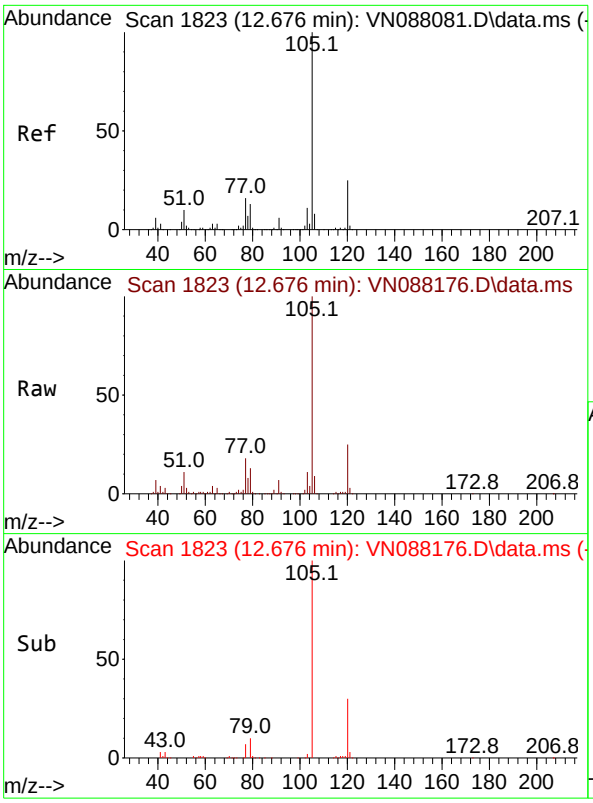


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:152 Resp: 276898

Ion	Ratio	Lower	Upper
152	100		
115	64.3	32.3	96.8
150	166.1	0.0	351.0

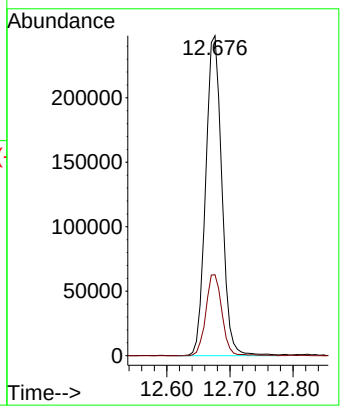




#73
Isopropylbenzene
Concen: 20.679 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:105 Resp: 44163

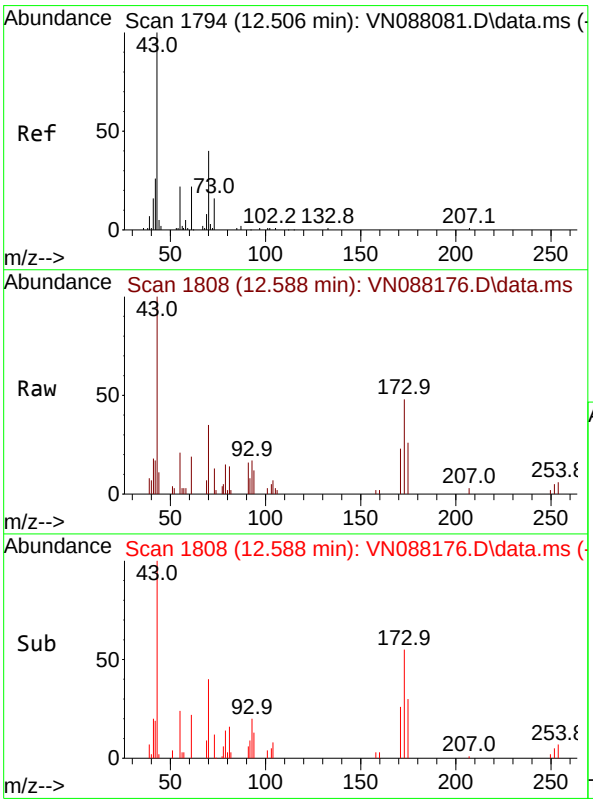
Ion	Ratio	Lower	Upper
105	100		
120	25.3	12.8	38.3



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

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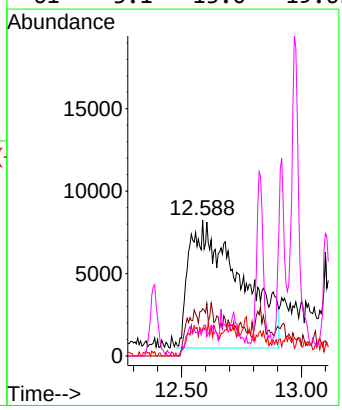
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

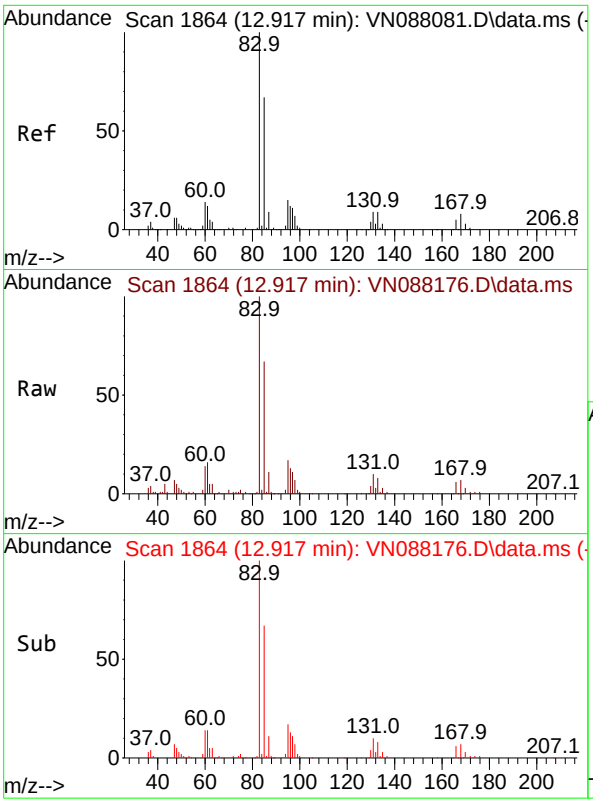


#74
N-amyl acetate
Concen: 18.899 ug/l m
RT: 12.588 min Scan# 1808
Delta R.T. 0.088 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 43 Resp: 114579

Ion	Ratio	Lower	Upper
43	100		
70	7.8	27.6	41.4#
55	4.9	13.0	19.6#
61	3.1	13.0	19.6#

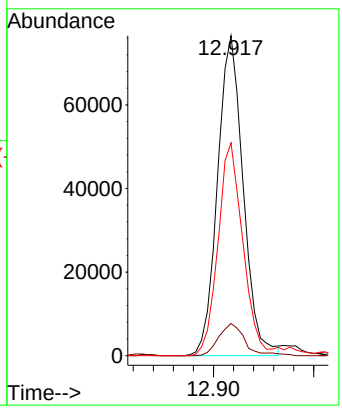




#75
1,1,2,2-Tetrachloroethane
Concen: 20.464 ug/l
RT: 12.917 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 83 Resp: 13606

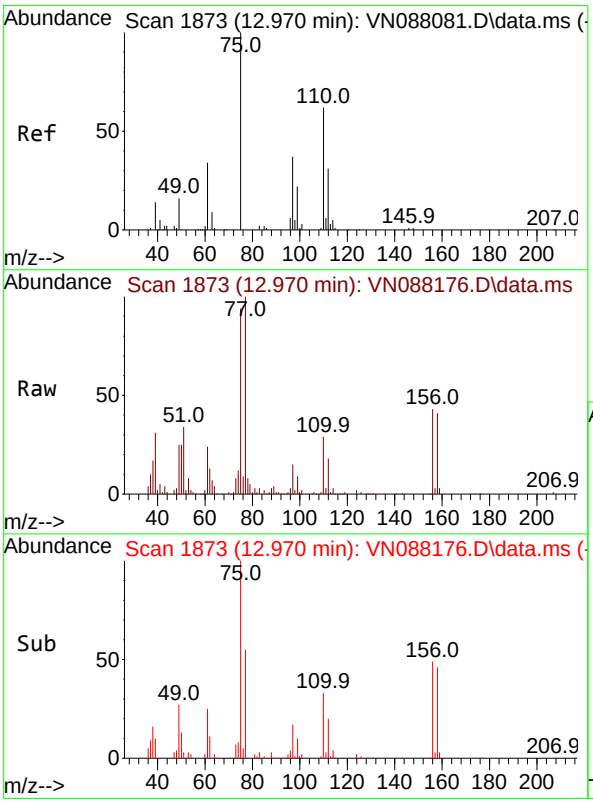
Ion	Ratio	Lower	Upper
83	100		
131	10.2	4.8	14.4
85	64.4	32.1	96.3



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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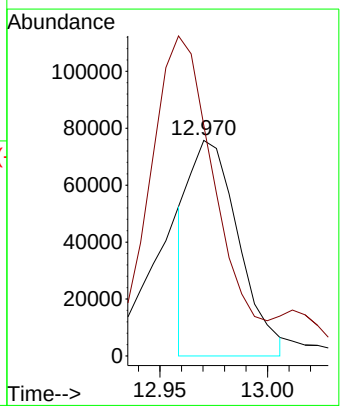
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

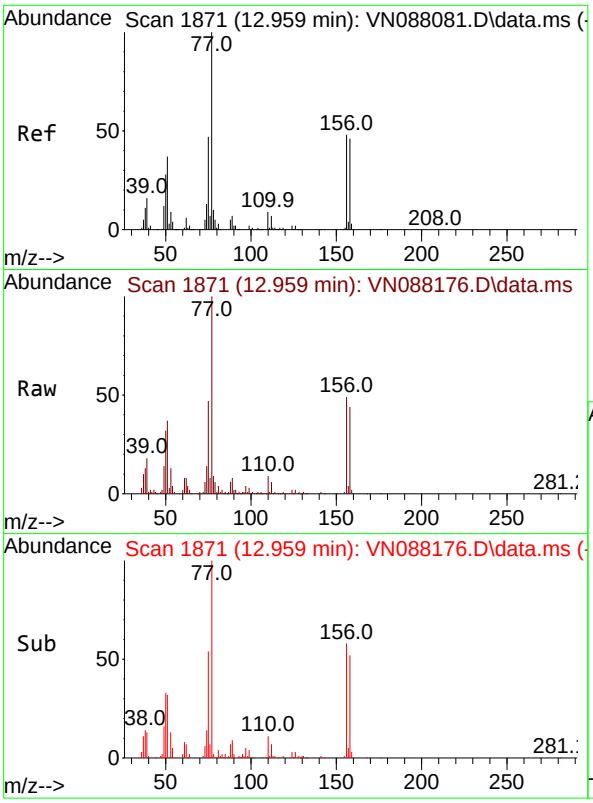


#76
1,2,3-Trichloropropane
Concen: 19.075 ug/l m
RT: 12.970 min Scan# 1873
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 75 Resp: 120761

Ion	Ratio	Lower	Upper
75	100		
77	198.0	89.1	267.4

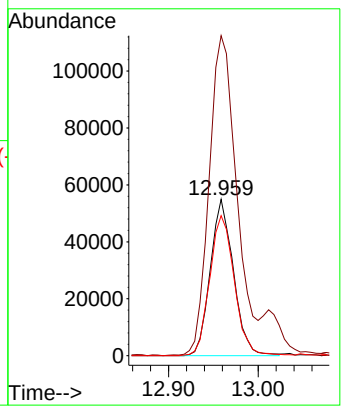




#77
Bromobenzene
Concen: 21.353 ug/l
RT: 12.959 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:156 Resp: 9833

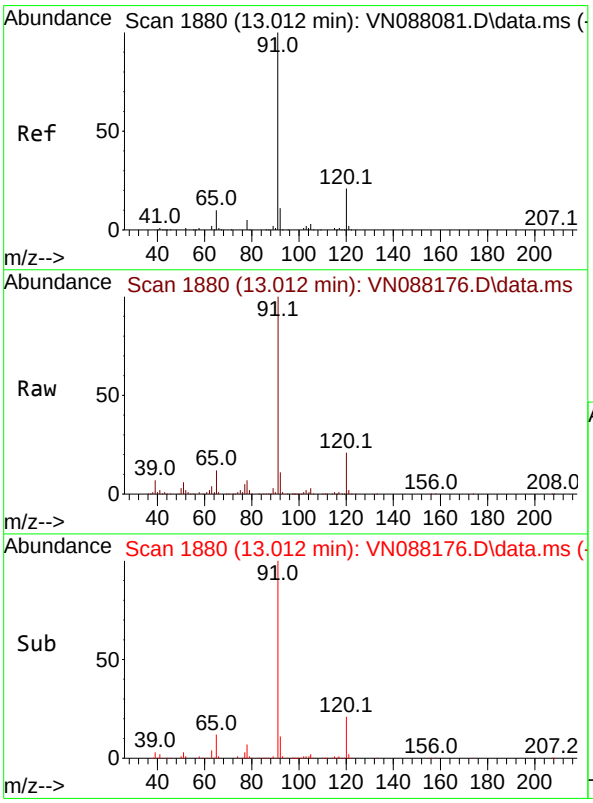
Ion	Ratio	Lower	Upper
156	100		
77	243.2	119.3	358.0
158	95.1	48.2	144.6



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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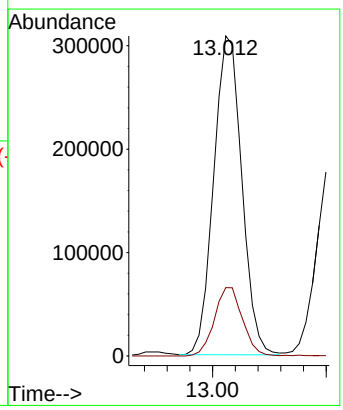
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

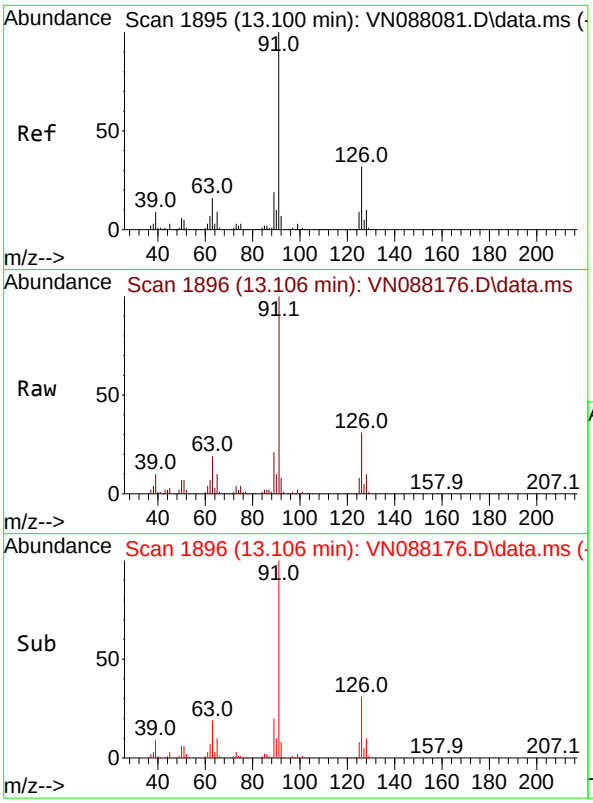


#78
n-propylbenzene
Concen: 20.335 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 91 Resp: 529965

Ion	Ratio	Lower	Upper
91	100		
120	21.4	10.7	32.1

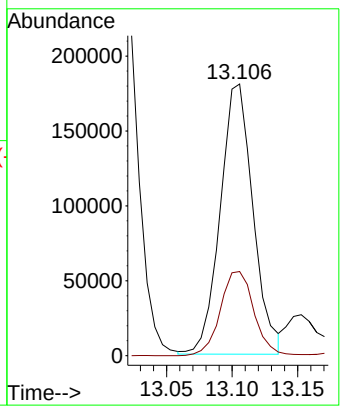




#79
2-Chlorotoluene
Concen: 21.142 ug/l
RT: 13.106 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 91 Resp: 31423

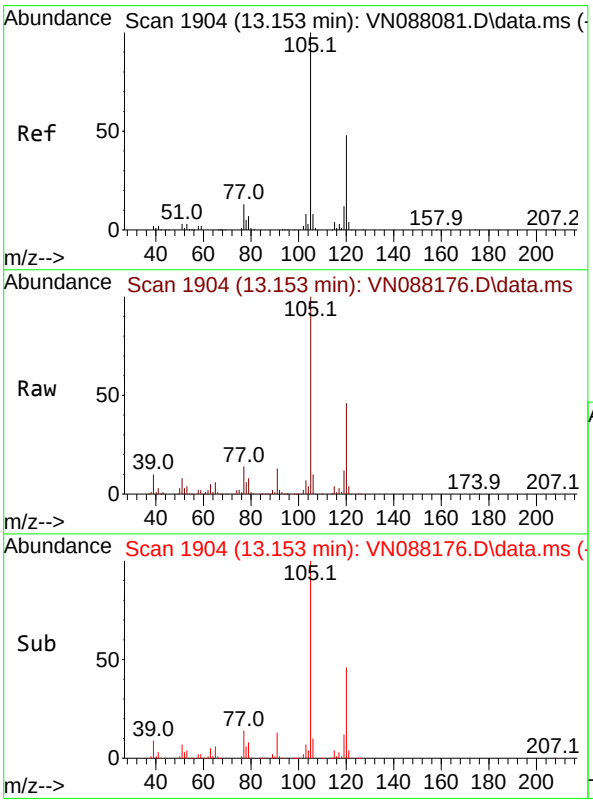
Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.1	48.3



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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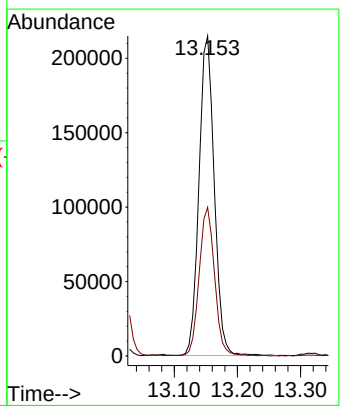
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

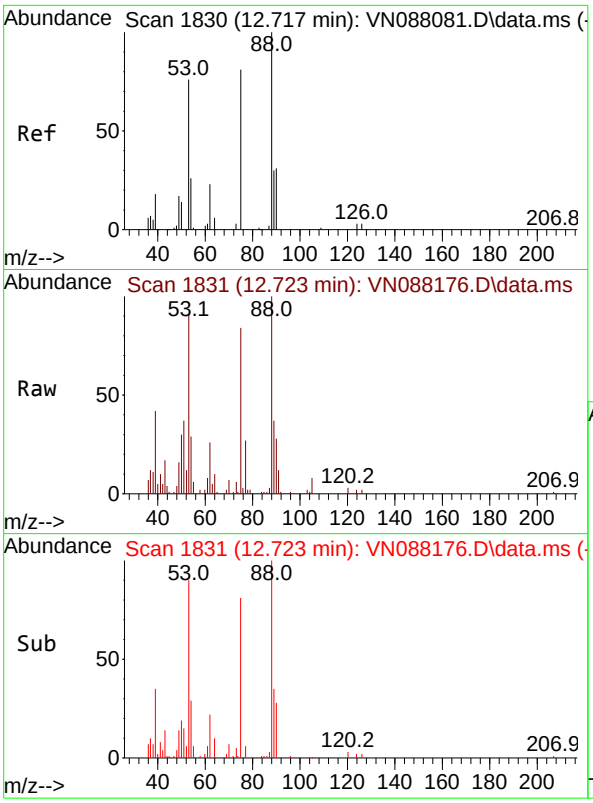


#80
1,3,5-Trimethylbenzene
Concen: 20.262 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:105 Resp: 359378

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.2	69.6





#81
trans-1,4-Dichloro-2-butene
Concen: 18.012 ug/l
RT: 12.723 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

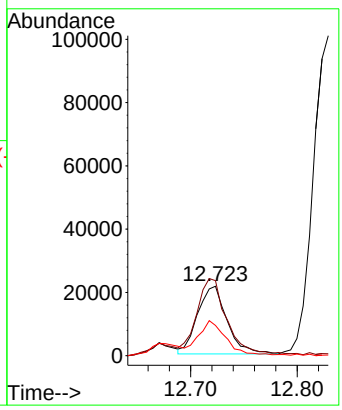
Tgt Ion: 75 Resp: 4087

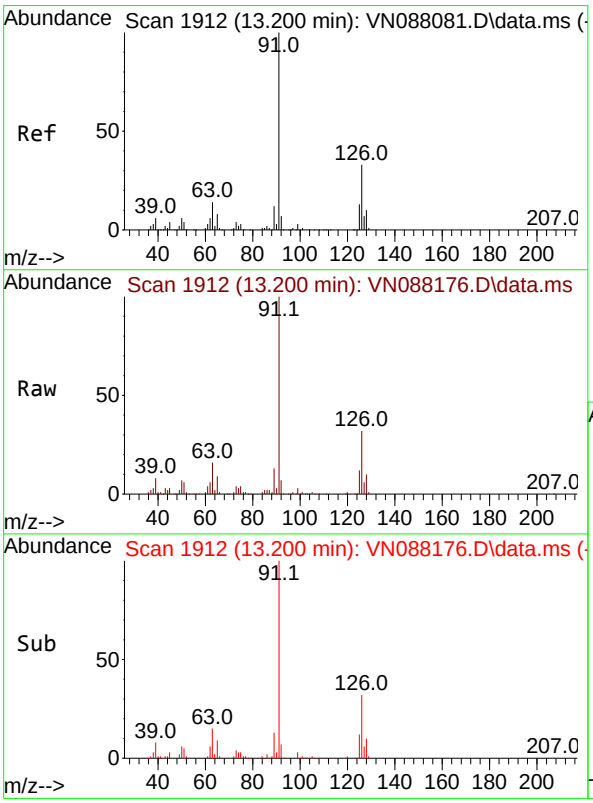
Ion	Ratio	Lower	Upper
75	100		
53	116.9	101.8	152.6
89	48.0	35.6	53.4

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

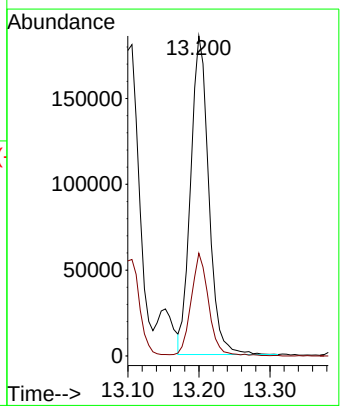


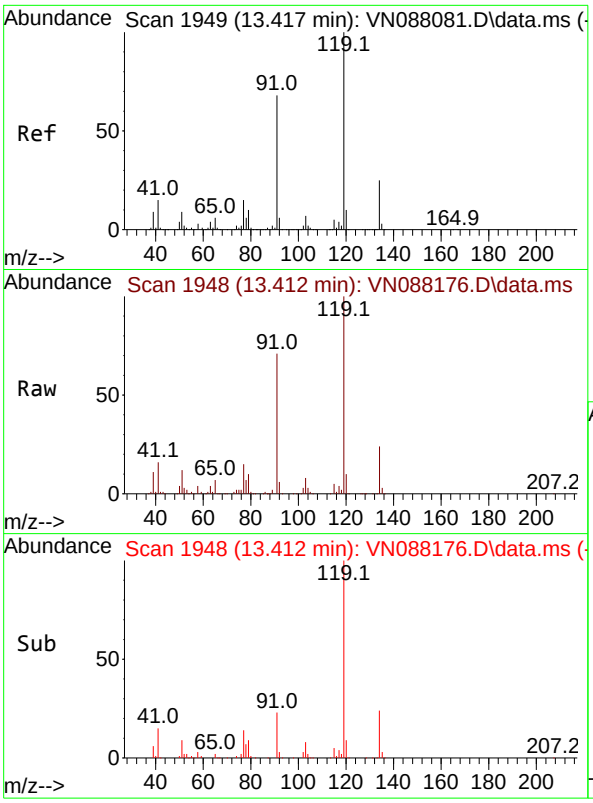


#82
4-Chlorotoluene
Concen: 20.476 ug/l
RT: 13.200 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 91 Resp: 329263

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.6	46.8

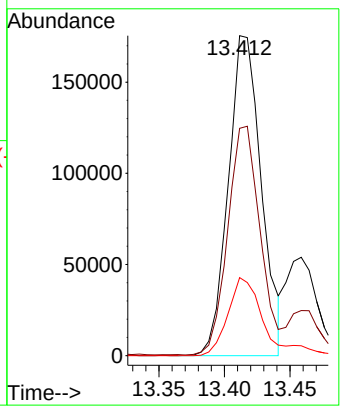




#83
tert-Butylbenzene
Concen: 19.443 ug/l
RT: 13.412 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:119 Resp: 30805

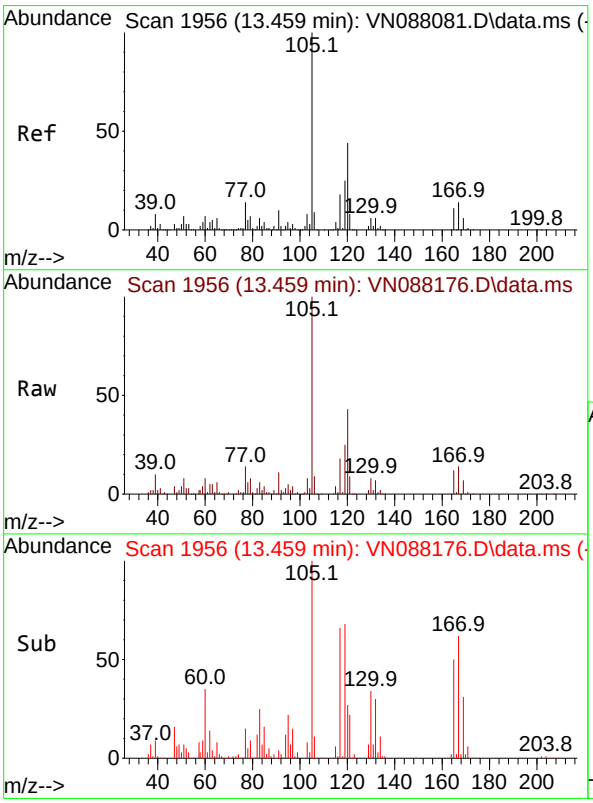
Ion	Ratio	Lower	Upper
119	100		
91	69.6	35.0	105.0
134	26.5	12.6	37.8



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

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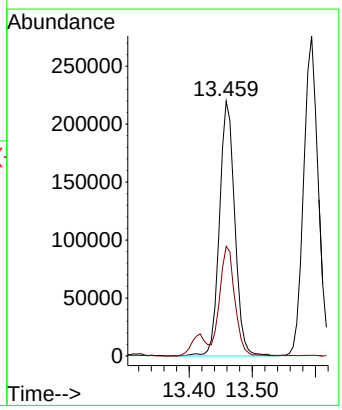
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

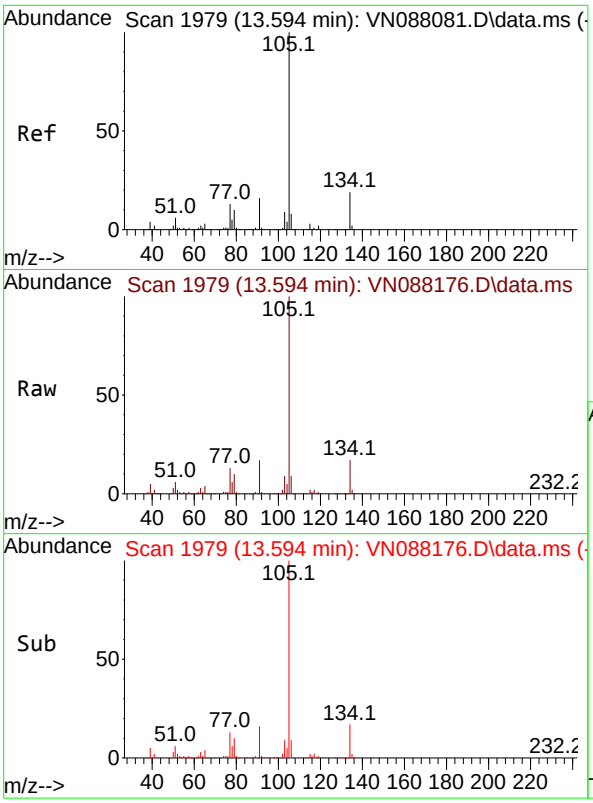


#84
1,2,4-Trimethylbenzene
Concen: 20.890 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:105 Resp: 370707

Ion	Ratio	Lower	Upper
105	100		
120	41.9	22.0	66.0





#85
sec-Butylbenzene
Concen: 19.011 ug/l
RT: 13.594 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

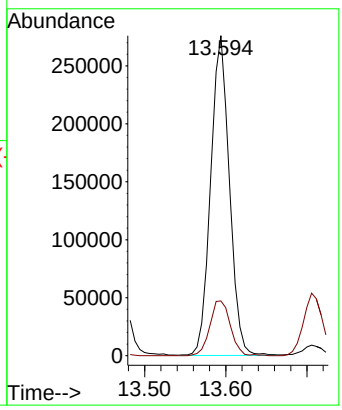
Tgt Ion:105 Resp: 44253

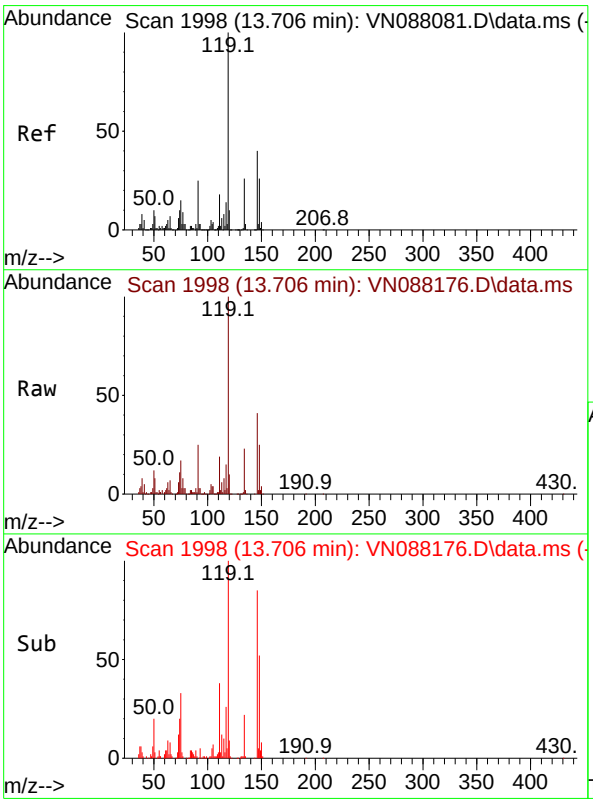
Ion	Ratio	Lower	Upper
105	100		
134	18.8	9.6	28.6

Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
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Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

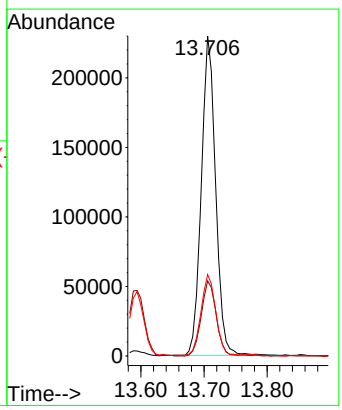


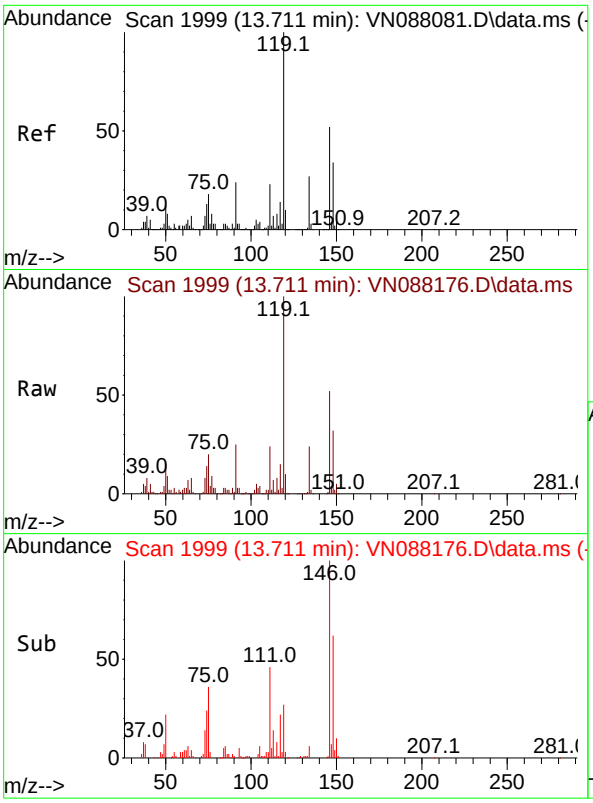


#86
p-Isopropyltoluene
Concen: 19.374 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:119 Resp: 361798

Ion	Ratio	Lower	Upper
119	100		
134	24.8	12.7	38.0
91	25.8	12.5	37.5

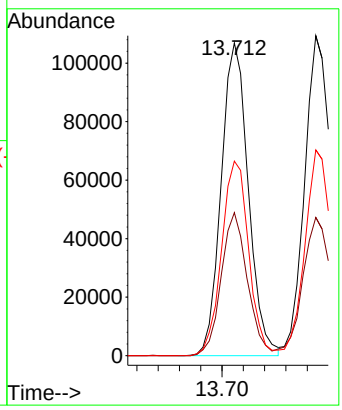




#87
1,3-Dichlorobenzene
Concen: 20.550 ug/l
RT: 13.711 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:146 Resp: 18892

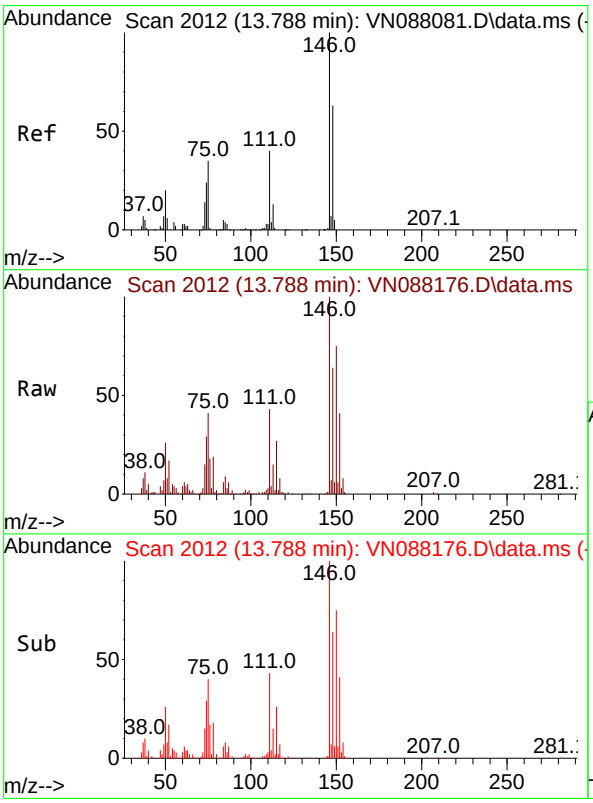
Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.1	66.5
148	62.1	32.0	96.2



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

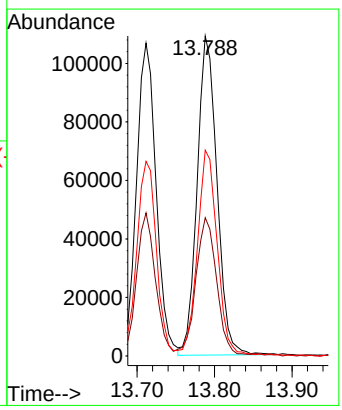
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

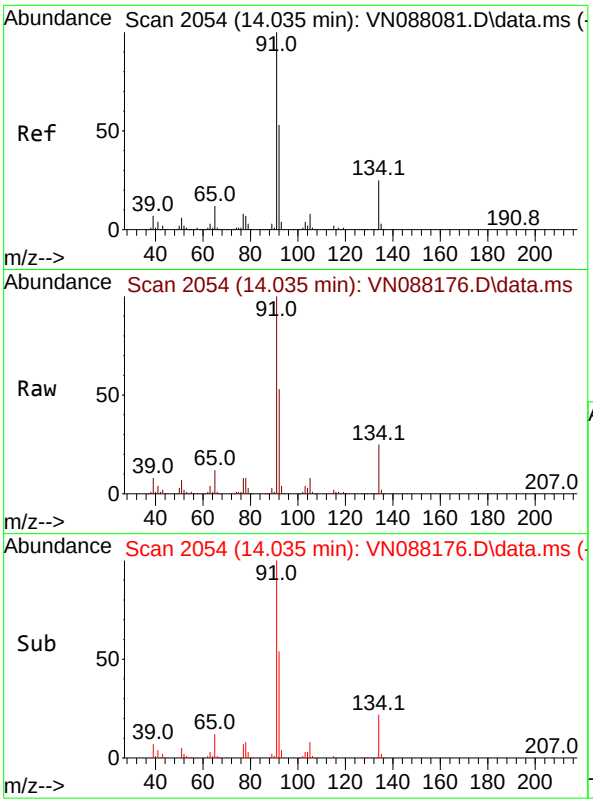


#88
1,4-Dichlorobenzene
Concen: 19.669 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:146 Resp: 194213

Ion	Ratio	Lower	Upper
146	100		
111	44.7	21.0	63.0
148	64.1	32.0	96.0

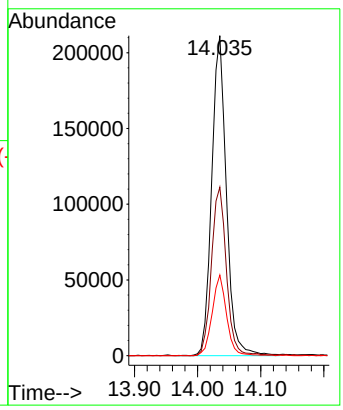




#89
n-Butylbenzene
Concen: 18.427 ug/l
RT: 14.035 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

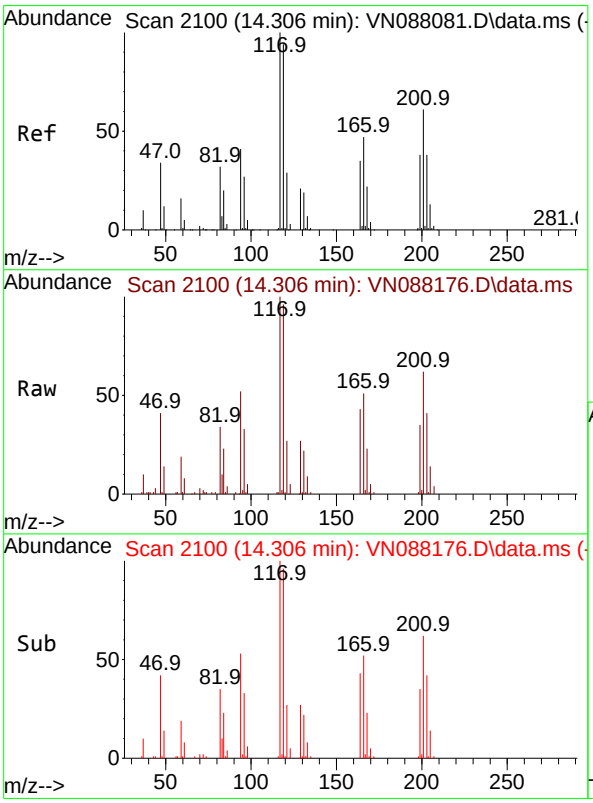
Tgt Ion: 91 Resp: 34084

Ion	Ratio	Lower	Upper
91	100		
92	53.6	25.9	77.8
134	24.6	11.7	35.0



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

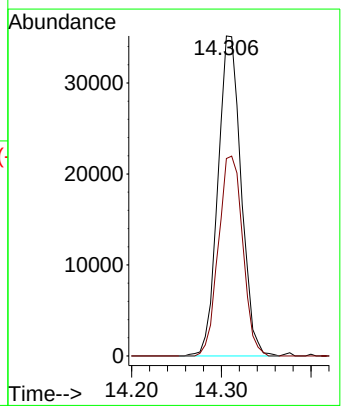
Manual Integrations
APPROVED
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

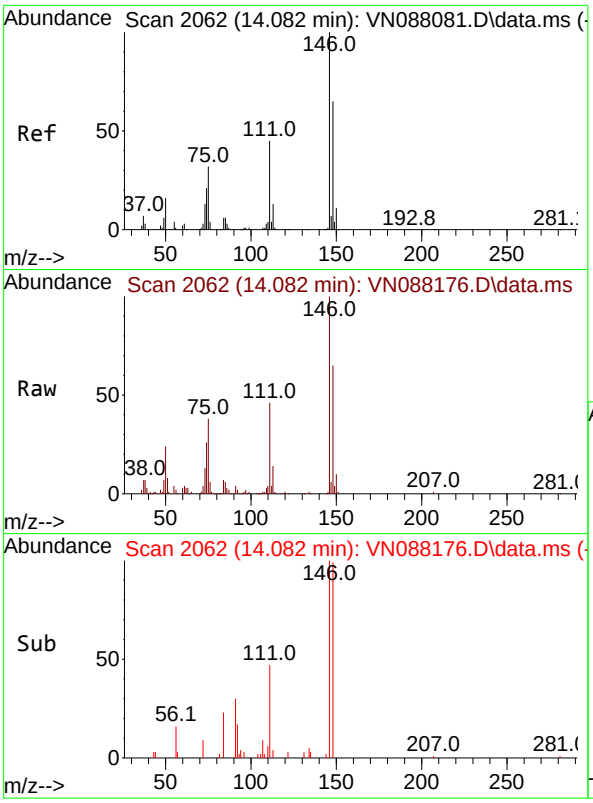


#90
Hexachloroethane
Concen: 17.442 ug/l
RT: 14.306 min Scan# 2100
Delta R.T. -0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:117 Resp: 63074

Ion	Ratio	Lower	Upper
117	100		
201	65.3	29.1	87.4

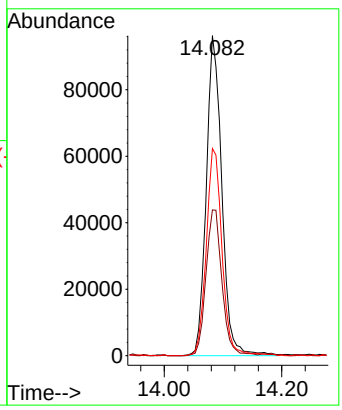




#91
1,2-Dichlorobenzene
Concen: 19.944 ug/l
RT: 14.082 min Scan# 2
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:146 Resp: 17674

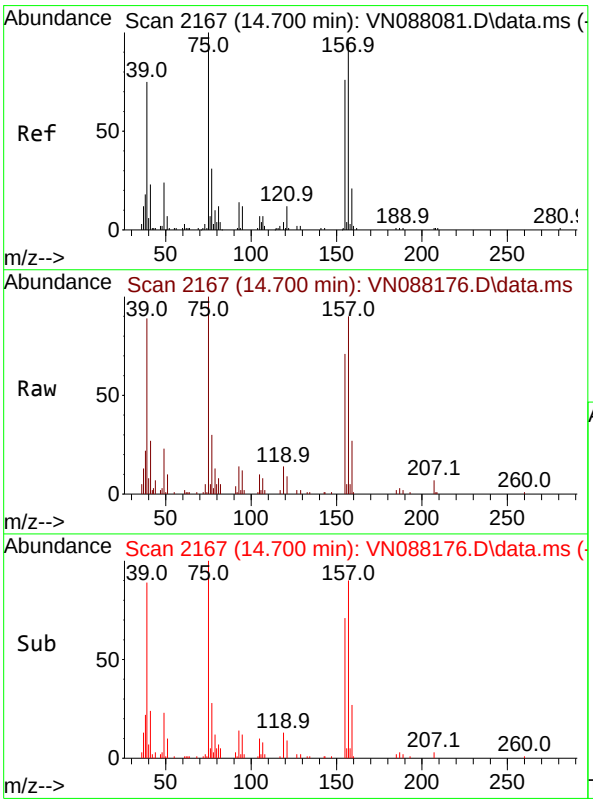
Ion	Ratio	Lower	Upper
146	100		
111	46.8	22.6	67.8
148	65.6	31.9	95.9



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

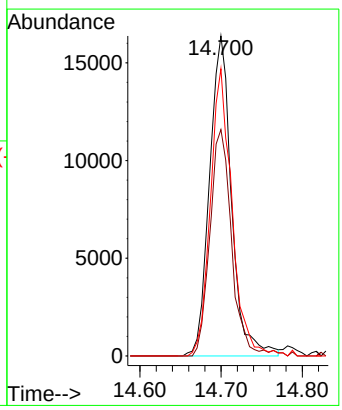
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

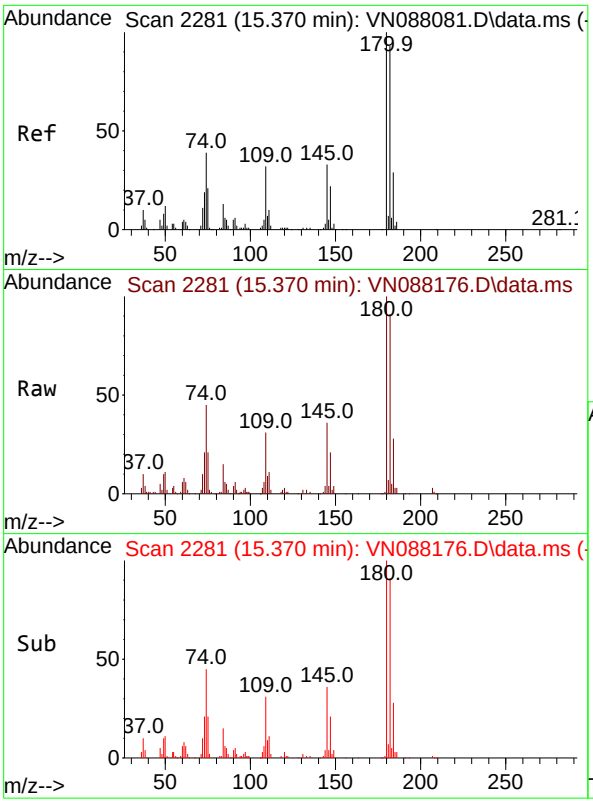


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.931 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion: 75 Resp: 30844

Ion	Ratio	Lower	Upper
75	100		
155	70.0	36.6	109.9
157	87.9	45.6	136.9

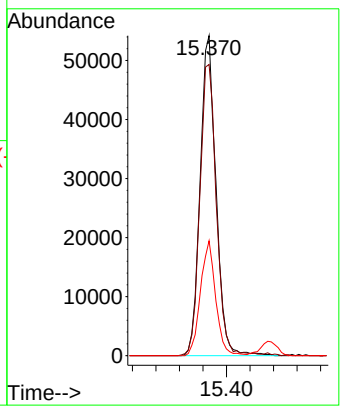




#93
1,2,4-Trichlorobenzene
Concen: 18.895 ug/l
RT: 15.370 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:180 Resp: 10141

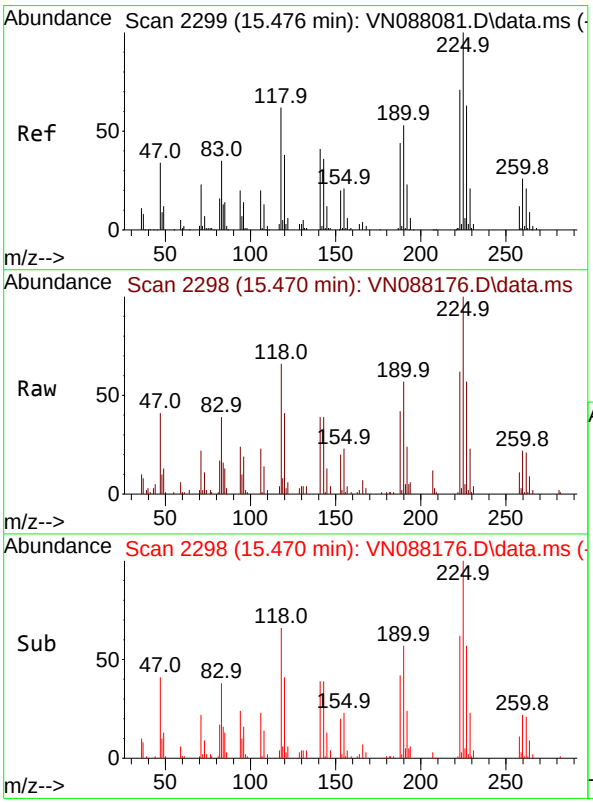
Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.6	142.9
145	34.5	16.5	49.5



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

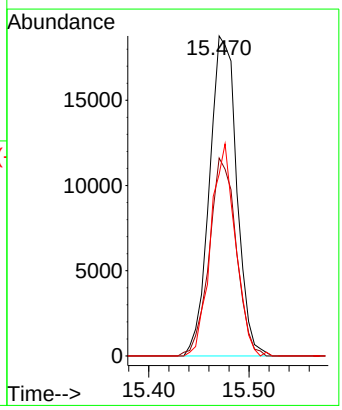
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025

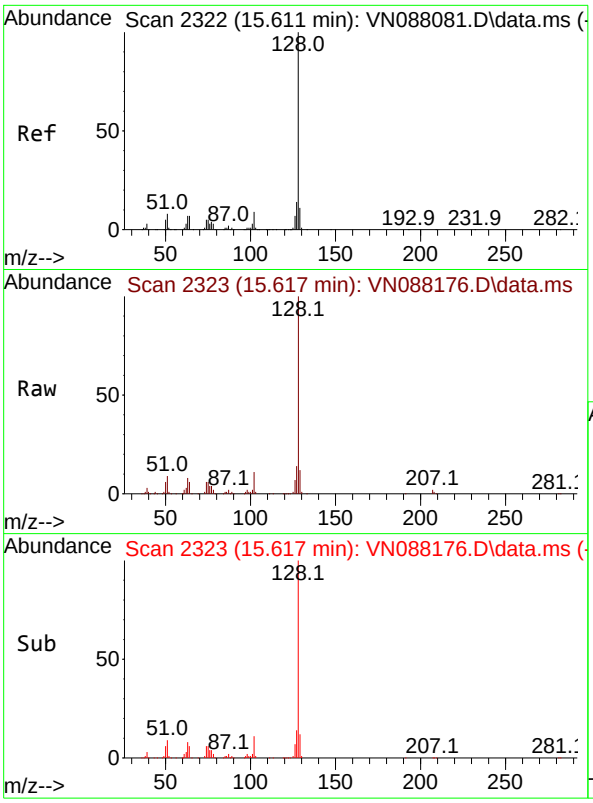


#94
Hexachlorobutadiene
Concen: 17.727 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. -0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:225 Resp: 35429

Ion	Ratio	Lower	Upper
225	100		
223	61.2	32.0	96.2
227	60.1	32.1	96.5

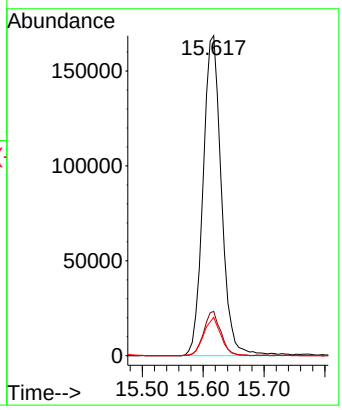




#95
Naphthalene
Concen: 19.178 ug/l
RT: 15.617 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:128 Resp: 35261

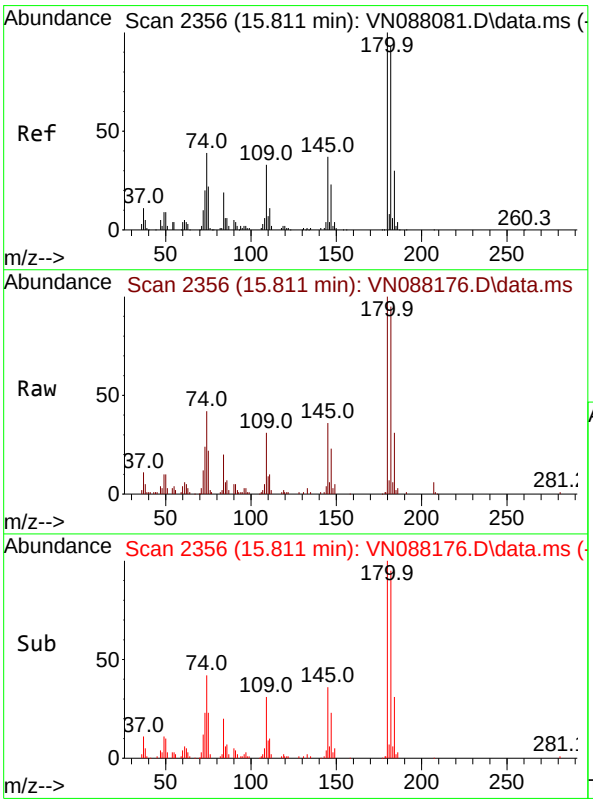
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.6	15.8
129	11.3	8.6	12.8



Instrument :
MSVOA_N
ClientSampleId :
VN1031MBS01

Manual Integrations
APPROVED

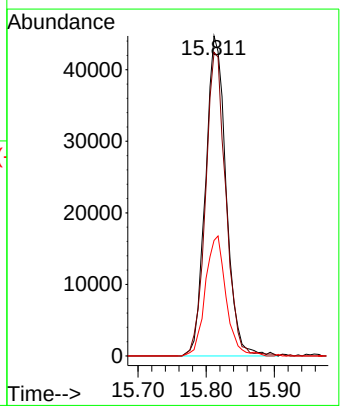
Reviewed By :Amit Patel 11/03/2025
Supervised By :Semsettin Yesilyurt 11/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.285 ug/l
RT: 15.811 min Scan# 2356
Delta R.T. -0.000 min
Lab File: VN088176.D
Acq: 31 Oct 2025 10:40

Tgt Ion:180 Resp: 94098

Ion	Ratio	Lower	Upper
180	100		
182	93.3	46.8	140.3
145	37.7	17.3	52.0



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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 905		Date Received:		
Client Sample ID:	VY1103SBS01		SDG No.:	Q3447	
Lab Sample ID:	VY1103SBS01		Matrix:	SOIL	
Analytical Method:	8260D	Level: LOW	% Solid:	100	
Sample Wt/Vol:	5 g	Final Vol: 5000 uL	Test:	VOC-TCLVOA-10	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	19.3		1	1.10	5.00	ug/Kg	11/03/25 11:08	VY110325
74-87-3	Chloromethane	18.3		1	1.10	5.00	ug/Kg	11/03/25 11:08	VY110325
75-01-4	Vinyl Chloride	18.9		1	0.79	5.00	ug/Kg	11/03/25 11:08	VY110325
74-83-9	Bromomethane	19.6		1	1.10	5.00	ug/Kg	11/03/25 11:08	VY110325
75-00-3	Chloroethane	19.7		1	1.30	5.00	ug/Kg	11/03/25 11:08	VY110325
75-69-4	Trichlorofluoromethane	20.4		1	1.20	5.00	ug/Kg	11/03/25 11:08	VY110325
76-13-1	1,1,2-Trichlorotrifluoroethane	22.2		1	1.10	5.00	ug/Kg	11/03/25 11:08	VY110325
75-35-4	1,1-Dichloroethene	21.2		1	1.00	5.00	ug/Kg	11/03/25 11:08	VY110325
67-64-1	Acetone	140		1	4.70	25.0	ug/Kg	11/03/25 11:08	VY110325
75-15-0	Carbon Disulfide	19.2		1	1.10	5.00	ug/Kg	11/03/25 11:08	VY110325
1634-04-4	Methyl tert-butyl Ether	20.8		1	0.73	5.00	ug/Kg	11/03/25 11:08	VY110325
79-20-9	Methyl Acetate	18.4		1	1.50	5.00	ug/Kg	11/03/25 11:08	VY110325
75-09-2	Methylene Chloride	19.2		1	3.50	10.0	ug/Kg	11/03/25 11:08	VY110325
156-60-5	trans-1,2-Dichloroethene	21.2		1	0.86	5.00	ug/Kg	11/03/25 11:08	VY110325
75-34-3	1,1-Dichloroethane	21.8		1	0.80	5.00	ug/Kg	11/03/25 11:08	VY110325
110-82-7	Cyclohexane	20.2		1	0.79	5.00	ug/Kg	11/03/25 11:08	VY110325
78-93-3	2-Butanone	120		1	6.50	25.0	ug/Kg	11/03/25 11:08	VY110325
56-23-5	Carbon Tetrachloride	21.9		1	0.97	5.00	ug/Kg	11/03/25 11:08	VY110325
156-59-2	cis-1,2-Dichloroethene	21.7		1	0.75	5.00	ug/Kg	11/03/25 11:08	VY110325
74-97-5	Bromochloromethane	21.6		1	1.20	5.00	ug/Kg	11/03/25 11:08	VY110325
67-66-3	Chloroform	22.2		1	0.84	5.00	ug/Kg	11/03/25 11:08	VY110325
71-55-6	1,1,1-Trichloroethane	22.3		1	0.93	5.00	ug/Kg	11/03/25 11:08	VY110325
108-87-2	Methylcyclohexane	20.8		1	0.91	5.00	ug/Kg	11/03/25 11:08	VY110325
71-43-2	Benzene	21.7		1	0.79	5.00	ug/Kg	11/03/25 11:08	VY110325
107-06-2	1,2-Dichloroethane	21.1		1	0.79	5.00	ug/Kg	11/03/25 11:08	VY110325
79-01-6	Trichloroethene	21.4		1	0.81	5.00	ug/Kg	11/03/25 11:08	VY110325
78-87-5	1,2-Dichloropropane	22.0		1	0.91	5.00	ug/Kg	11/03/25 11:08	VY110325
75-27-4	Bromodichloromethane	21.7		1	0.78	5.00	ug/Kg	11/03/25 11:08	VY110325
108-10-1	4-Methyl-2-Pentanone	100		1	3.60	25.0	ug/Kg	11/03/25 11:08	VY110325
108-88-3	Toluene	22.0		1	0.78	5.00	ug/Kg	11/03/25 11:08	VY110325
10061-02-6	t-1,3-Dichloropropene	20.8		1	0.65	5.00	ug/Kg	11/03/25 11:08	VY110325
10061-01-5	cis-1,3-Dichloropropene	21.5		1	0.62	5.00	ug/Kg	11/03/25 11:08	VY110325
79-00-5	1,1,2-Trichloroethane	21.7		1	0.92	5.00	ug/Kg	11/03/25 11:08	VY110325
591-78-6	2-Hexanone	110		1	3.70	25.0	ug/Kg	11/03/25 11:08	VY110325
124-48-1	Dibromochloromethane	21.3		1	0.87	5.00	ug/Kg	11/03/25 11:08	VY110325
106-93-4	1,2-Dibromoethane	21.1		1	0.88	5.00	ug/Kg	11/03/25 11:08	VY110325
127-18-4	Tetrachloroethene	22.4		1	1.10	5.00	ug/Kg	11/03/25 11:08	VY110325
108-90-7	Chlorobenzene	21.6		1	0.91	5.00	ug/Kg	11/03/25 11:08	VY110325
100-41-4	Ethyl Benzene	21.5		1	0.67	5.00	ug/Kg	11/03/25 11:08	VY110325
179601-23-1	m/p-Xylenes	43.4		1	1.20	10.0	ug/Kg	11/03/25 11:08	VY110325
95-47-6	o-Xylene	21.0		1	0.82	5.00	ug/Kg	11/03/25 11:08	VY110325
100-42-5	Styrene	21.5		1	0.71	5.00	ug/Kg	11/03/25 11:08	VY110325
75-25-2	Bromoform	20.8		1	0.86	5.00	ug/Kg	11/03/25 11:08	VY110325

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	VY1103SBS01			SDG No.:	Q3447
Lab Sample ID:	VY1103SBS01			Matrix:	SOIL
Analytical Method:	8260D	Level:	LOW	% Solid:	100
Sample Wt/Vol:	5 g	Final Vol:	5000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	22.1		1	0.78	5.00	ug/Kg	11/03/25 11:08	VY110325
79-34-5	1,1,2,2-Tetrachloroethane	20.8		1	1.20	5.00	ug/Kg	11/03/25 11:08	VY110325
541-73-1	1,3-Dichlorobenzene	21.2		1	1.70	5.00	ug/Kg	11/03/25 11:08	VY110325
106-46-7	1,4-Dichlorobenzene	21.1		1	1.60	5.00	ug/Kg	11/03/25 11:08	VY110325
95-50-1	1,2-Dichlorobenzene	21.3		1	1.50	5.00	ug/Kg	11/03/25 11:08	VY110325
96-12-8	1,2-Dibromo-3-Chloropropane	19.5		1	1.80	5.00	ug/Kg	11/03/25 11:08	VY110325
120-82-1	1,2,4-Trichlorobenzene	18.5		1	3.00	5.00	ug/Kg	11/03/25 11:08	VY110325
87-61-6	1,2,3-Trichlorobenzene	18.4		1	3.20	5.00	ug/Kg	11/03/25 11:08	VY110325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	48.4			63 - 155	97%	SPK: 50		
1868-53-7	Dibromofluoromethane	49.2			70 - 134	98%	SPK: 50		
2037-26-5	Toluene-d8	48.5			74 - 123	97%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.3			17 - 146	99%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	481000							
540-36-3	1,4-Difluorobenzene	712000							
3114-55-4	Chlorobenzene-d5	619000							
3855-82-1	1,4-Dichlorobenzene-d4	321000							

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_Y\Data\VY110325\
Data File : VY023649.D
Acq On : 03 Nov 2025 11:08
Operator : SY/MD
Sample : VY1103SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 01:29:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.707	168	481322	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	711663	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	618924	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	321134	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	194799	48.399	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 96.800%			
35) Dibromofluoromethane	7.640	113	214927	49.151	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 98.300%			
50) Toluene-d8	10.109	98	789137	48.458	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.920%			
62) 4-Bromofluorobenzene	12.407	95	264976	49.285	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.560%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	67036	19.349	ug/l	100
3) Chloromethane	2.074	50	86500	18.328	ug/l	100
4) Vinyl Chloride	2.208	62	116152	18.895	ug/l	99
5) Bromomethane	2.592	94	100947	19.569	ug/l	100
6) Chloroethane	2.738	64	82541	19.698	ug/l	97
7) Trichlorofluoromethane	3.055	101	173786	20.361	ug/l	95
8) Diethyl Ether	3.458	74	45150	20.244	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.818	101	98338	22.203	ug/l	99
10) Methyl Iodide	4.007	142	98282	19.933	ug/l	99
11) Tert butyl alcohol	4.854	59	27976	93.431	ug/l #	87
12) 1,1-Dichloroethene	3.793	96	90874	21.165	ug/l	98
13) Acrolein	3.653	56	16500	38.998	ug/l	96
14) Allyl chloride	4.385	41	109105	20.851	ug/l	100
15) Acrylonitrile	5.055	53	87736	102.793	ug/l	100
16) Acetone	3.872	43	134890	140.775	ug/l	98
17) Carbon Disulfide	4.110	76	236380	19.236	ug/l	99
18) Methyl Acetate	4.385	43	46254	18.402	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	214157	20.753	ug/l	97
20) Methylene Chloride	4.616	84	99354	19.175	ug/l	97
21) trans-1,2-Dichloroethene	5.116	96	100199	21.197	ug/l	96
22) Diisopropyl ether	6.018	45	256722	22.180	ug/l	96
23) Vinyl Acetate	5.964	43	666613	106.404	ug/l	100
24) 1,1-Dichloroethane	5.921	63	167493	21.846	ug/l	97
25) 2-Butanone	6.896	43	140057	119.726	ug/l	96
26) 2,2-Dichloropropane	6.884	77	155908	22.161	ug/l	100
27) cis-1,2-Dichloroethene	6.890	96	118651	21.730	ug/l	97
28) Bromochloromethane	7.250	49	61941	21.641	ug/l	98
29) Tetrahydrofuran	7.262	42	66371	100.052	ug/l	99
30) Chloroform	7.421	83	186689	22.163	ug/l	100
31) Cyclohexane	7.701	56	135565	20.247	ug/l	96
32) 1,1,1-Trichloroethane	7.622	97	170996	22.338	ug/l	98
36) 1,1-Dichloropropene	7.835	75	124627	21.528	ug/l	100
37) Ethyl Acetate	6.982	43	47396	20.665	ug/l	99
38) Carbon Tetrachloride	7.817	117	153775	21.906	ug/l	99
39) Methylcyclohexane	9.109	83	156586	20.774	ug/l	97
40) Benzene	8.079	78	397815	21.698	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023649.D
Acq On : 03 Nov 2025 11:08
Operator : SY/MD
Sample : VY1103SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 01:29:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.232	41	25822m	20.817	ug/l		
42) 1,2-Dichloroethane	8.158	62	99679	21.081	ug/l		99
43) Isopropyl Acetate	8.201	43	92112	20.141	ug/l		99
44) Trichloroethene	8.865	130	114980	21.427	ug/l		97
45) 1,2-Dichloropropane	9.140	63	89108	22.005	ug/l		95
46) Dibromomethane	9.231	93	53984	21.082	ug/l		98
47) Bromodichloromethane	9.426	83	139752	21.670	ug/l		100
48) Methyl methacrylate	9.219	41	42099	19.595	ug/l		95
49) 1,4-Dioxane	9.225	88	11401	384.020	ug/l		94
51) 4-Methyl-2-Pentanone	9.999	43	247502	104.746	ug/l		99
52) Toluene	10.170	92	261736	21.987	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	116551	20.785	ug/l		99
54) cis-1,3-Dichloropropene	9.859	75	142391	21.515	ug/l		99
55) 1,1,2-Trichloroethane	10.572	97	74640	21.676	ug/l		96
56) Ethyl methacrylate	10.438	69	79936	20.125	ug/l		97
57) 1,3-Dichloropropane	10.719	76	117858	21.600	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	162881	91.539	ug/l		100
59) 2-Hexanone	10.761	43	190765	112.971	ug/l		98
60) Dibromochloromethane	10.914	129	102682	21.269	ug/l		100
61) 1,2-Dibromoethane	11.017	107	69157	21.059	ug/l		99
64) Tetrachloroethene	10.646	164	143038	22.382	ug/l		94
65) Chlorobenzene	11.438	112	290304	21.566	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	105016	21.892	ug/l		99
67) Ethyl Benzene	11.517	91	469484	21.546	ug/l		99
68) m/p-Xylenes	11.627	106	379562	43.429	ug/l		98
69) o-Xylene	11.956	106	171998	20.981	ug/l		97
70) Styrene	11.969	104	289194	21.452	ug/l		99
71) Bromoform	12.133	173	61982	20.830	ug/l	#	100
73) Isopropylbenzene	12.255	105	468447	22.135	ug/l		98
74) N-amyl acetate	12.072	43	75069	19.749	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	72053	20.816	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	54948m	19.394	ug/l		
77) Bromobenzene	12.529	156	116488	20.704	ug/l		97
78) n-propylbenzene	12.596	91	547377	22.351	ug/l		99
79) 2-Chlorotoluene	12.676	91	315368	21.990	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	380773	22.266	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	22710	19.656	ug/l		97
82) 4-Chlorotoluene	12.779	91	325689	22.051	ug/l		99
83) tert-Butylbenzene	12.999	119	344651	21.827	ug/l		99
84) 1,2,4-Trimethylbenzene	13.041	105	373761	21.900	ug/l		99
85) sec-Butylbenzene	13.176	105	510176	22.524	ug/l		99
86) p-Isopropyltoluene	13.291	119	424859	22.031	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	232125	21.187	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	228460	21.113	ug/l		99
89) n-Butylbenzene	13.615	91	365497	21.751	ug/l		98
90) Hexachloroethane	13.877	117	90593	21.841	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	204759	21.317	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	11054	19.463	ug/l		98
93) 1,2,4-Trichlorobenzene	14.919	180	110534	18.459	ug/l		99
94) Hexachlorobutadiene	15.023	225	77528	20.769	ug/l		98
95) Naphthalene	15.145	128	161812	16.969	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	95253	18.364	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023649.D
Acq On : 03 Nov 2025 11:08
Operator : SY/MD
Sample : VY1103SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 04 01:29:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

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

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

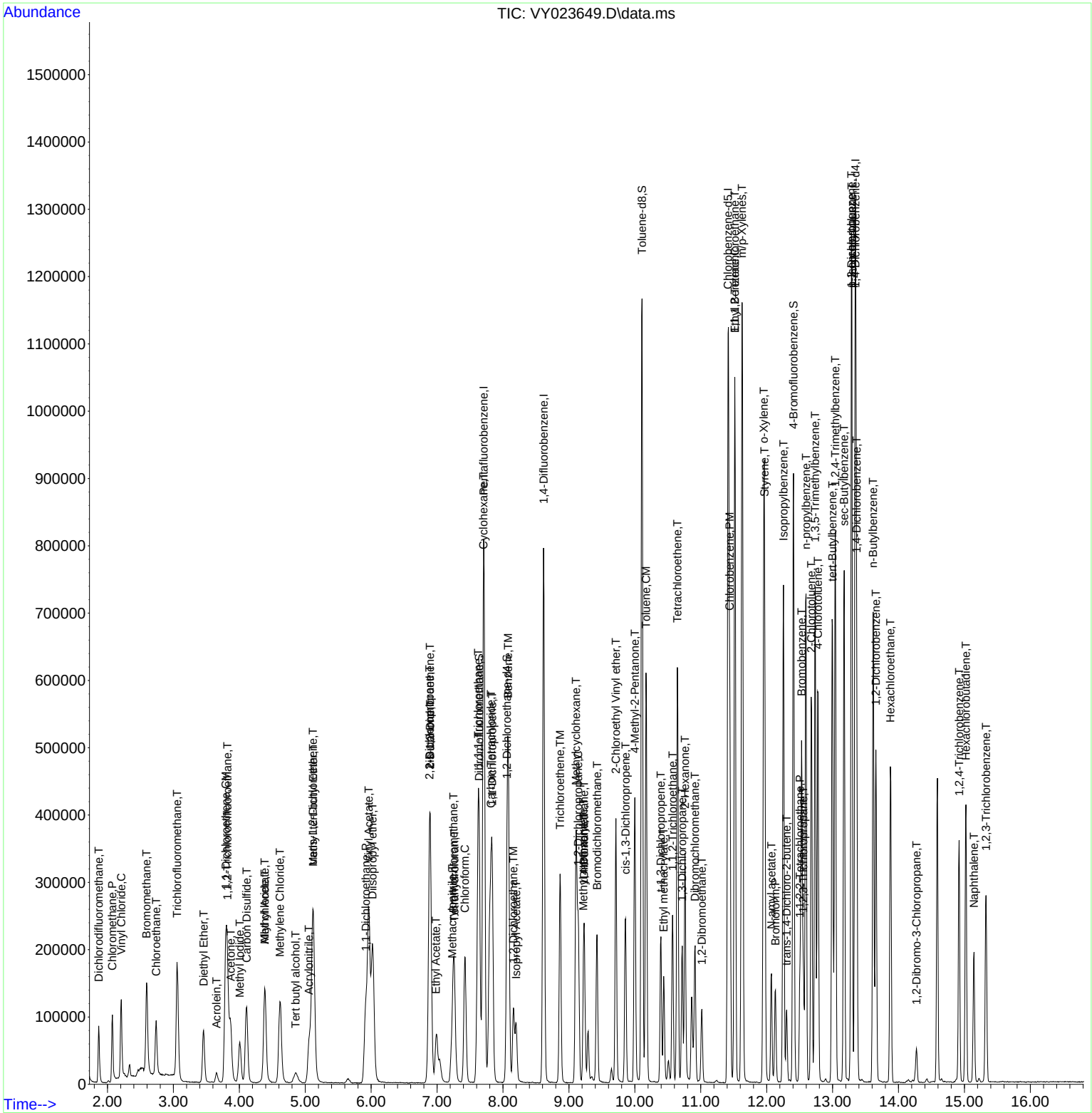
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Acq On : 03 Nov 2025 11:08
Operator : SY/MD
Sample : VY1103SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

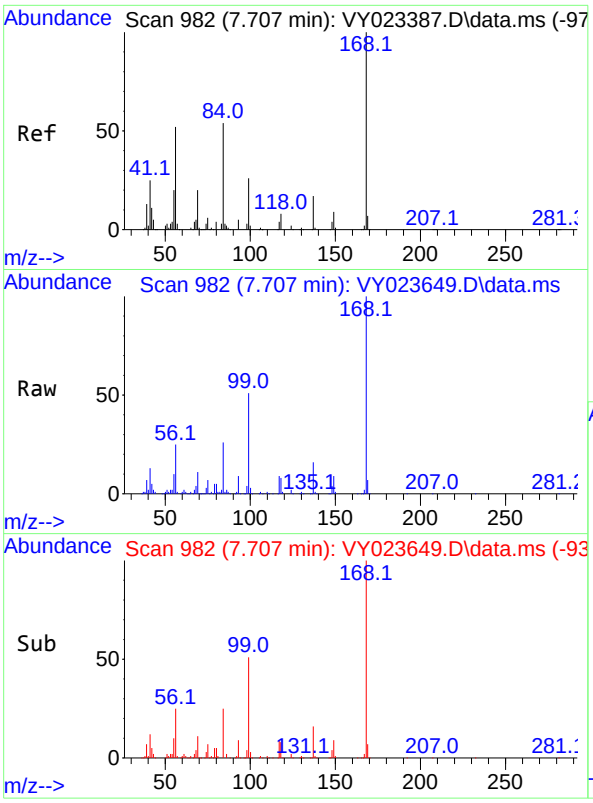
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
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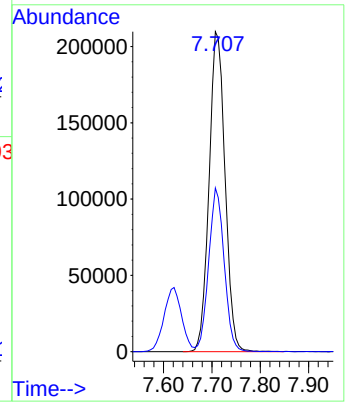




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:168 Resp: 48132

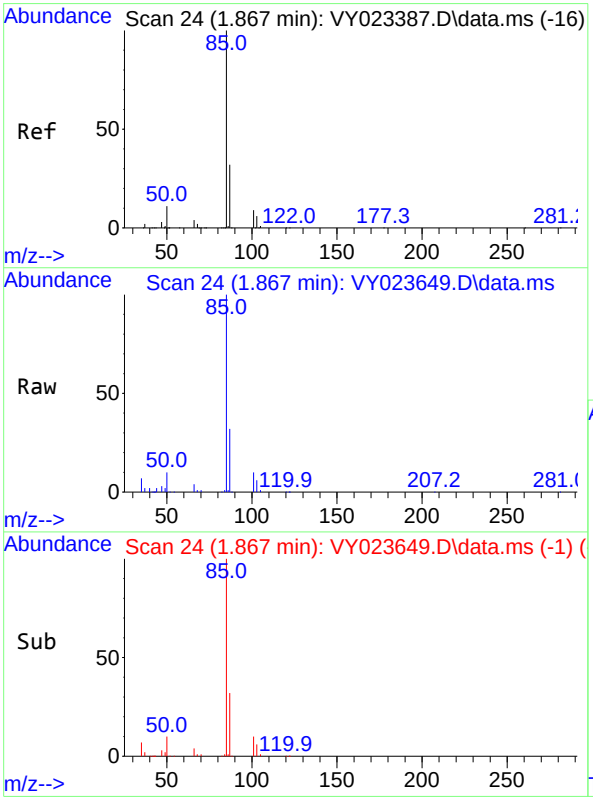
Ion	Ratio	Lower	Upper
168	100		
99	51.2	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

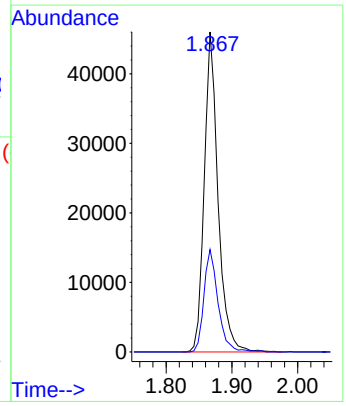
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

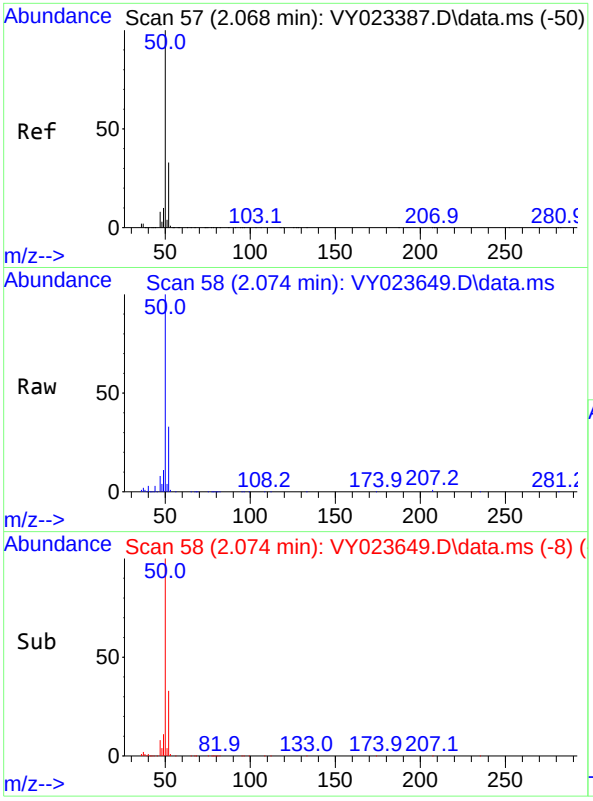


#2
Dichlorodifluoromethane
Concen: 19.349 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 85 Resp: 67036

Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.0	47.9

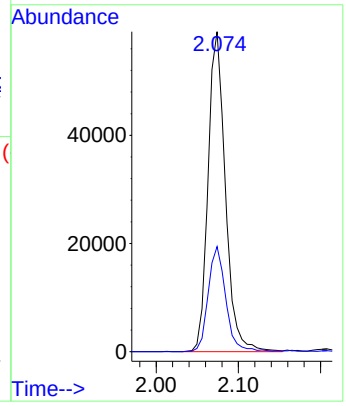




#3
Chloromethane
Concen: 18.328 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 50 Resp: 8650

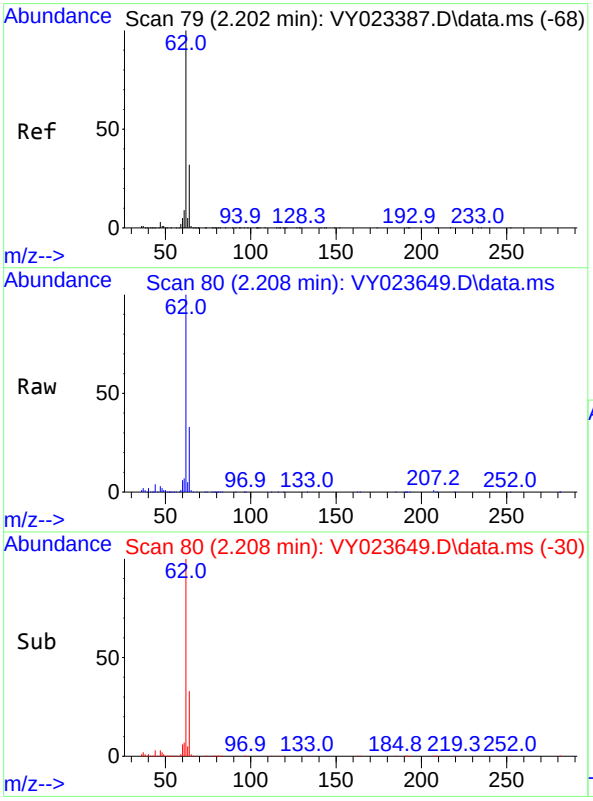
Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

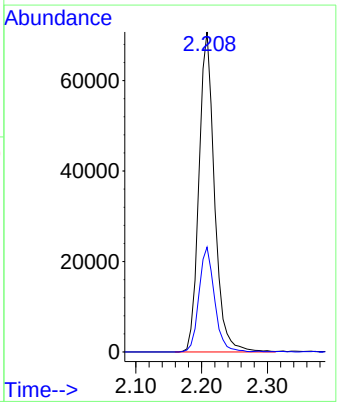
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

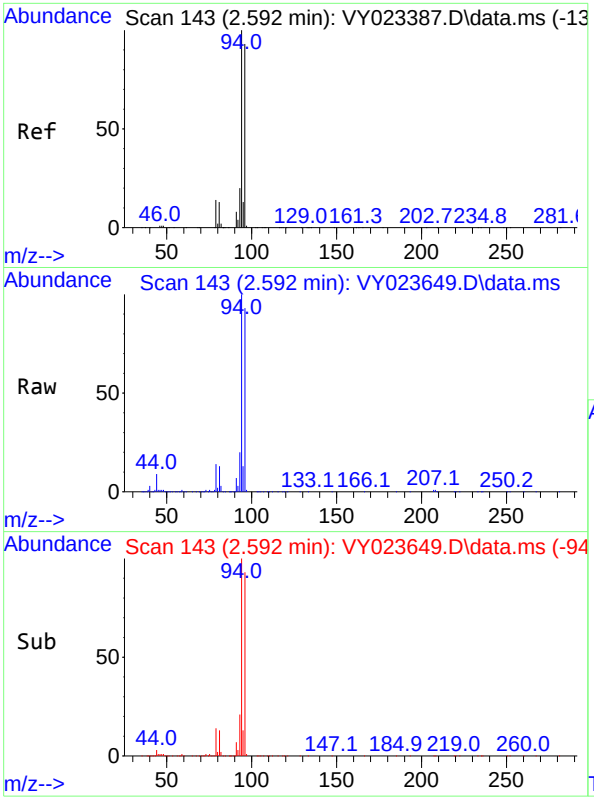


#4
Vinyl Chloride
Concen: 18.895 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 62 Resp: 116152

Ion	Ratio	Lower	Upper
62	100		
64	32.7	25.8	38.8





#5
Bromomethane
Concen: 19.569 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

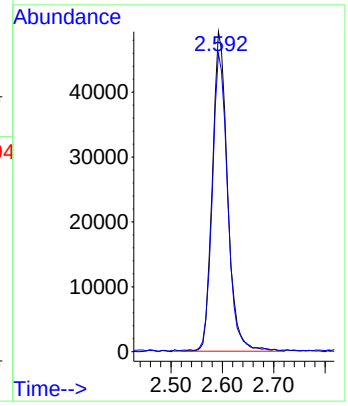
Tgt Ion: 94 Resp: 10094

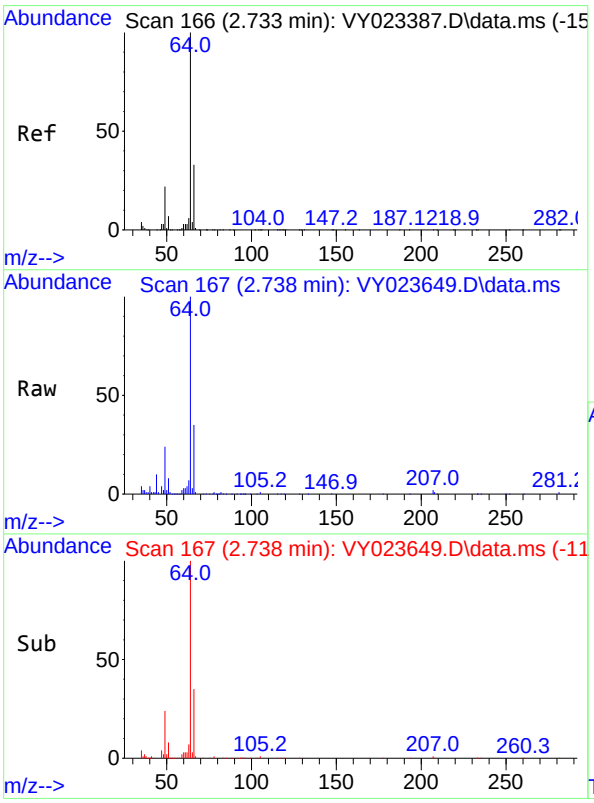
Ion	Ratio	Lower	Upper
94	100		
96	92.8	74.5	111.7

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

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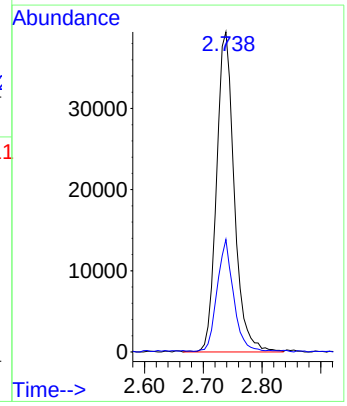


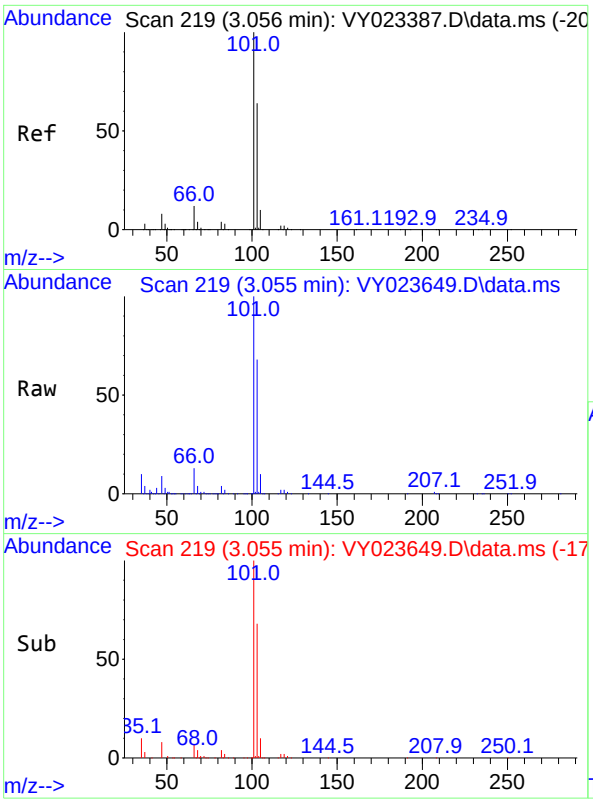


#6
Chloroethane
Concen: 19.698 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 64 Resp: 82541

Ion	Ratio	Lower	Upper
64	100		
66	34.7	26.2	39.4

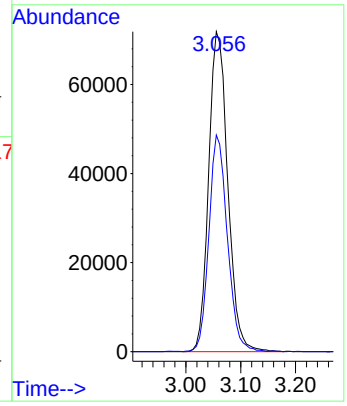




#7
Trichlorofluoromethane
Concen: 20.361 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:101 Resp: 17378

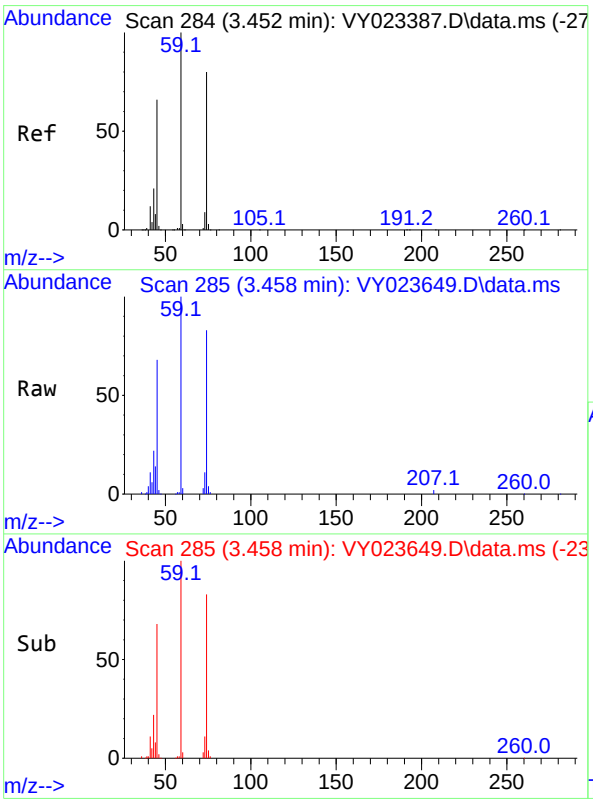
Ion	Ratio	Lower	Upper
101	100		
103	67.7	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

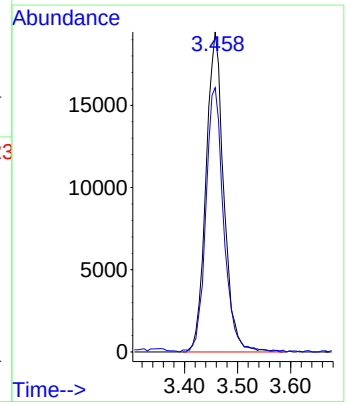
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

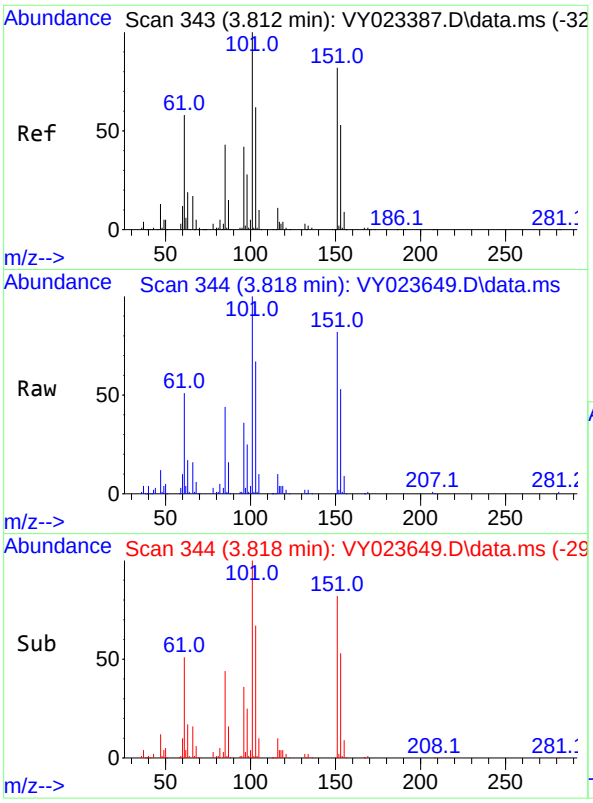


#8
Diethyl Ether
Concen: 20.244 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 74 Resp: 45150

Ion	Ratio	Lower	Upper
74	100		
45	83.3	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.203 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

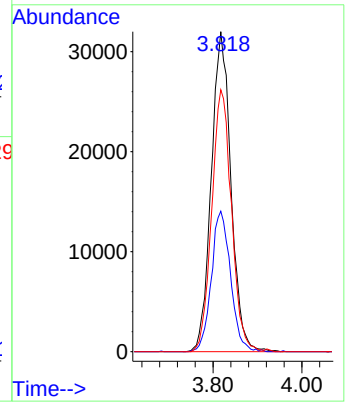
Tgt Ion:101 Resp: 9833

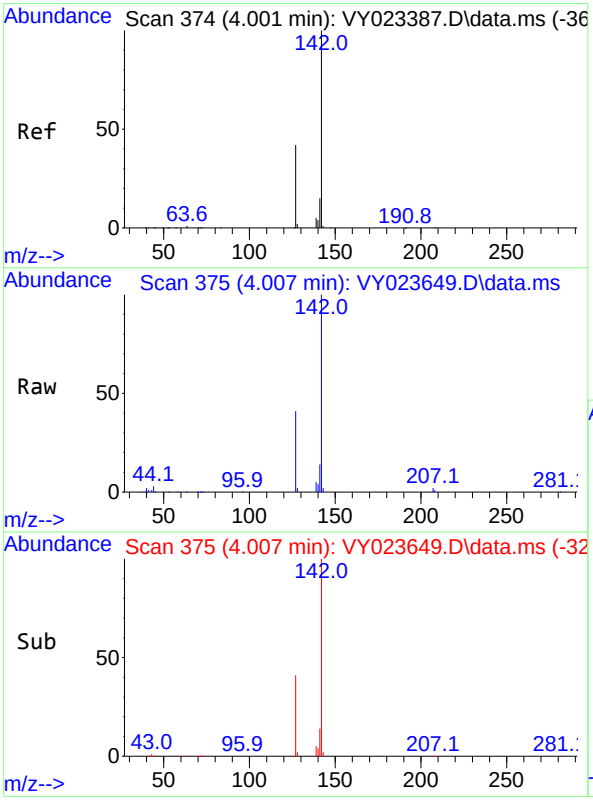
Ion	Ratio	Lower	Upper
101	100		
85	43.0	34.6	51.8
151	82.2	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

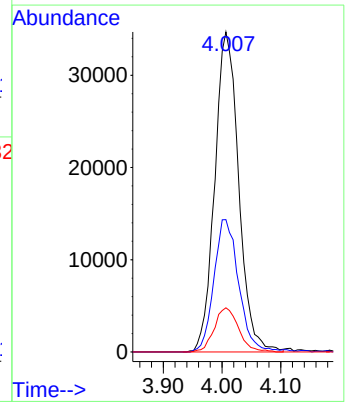


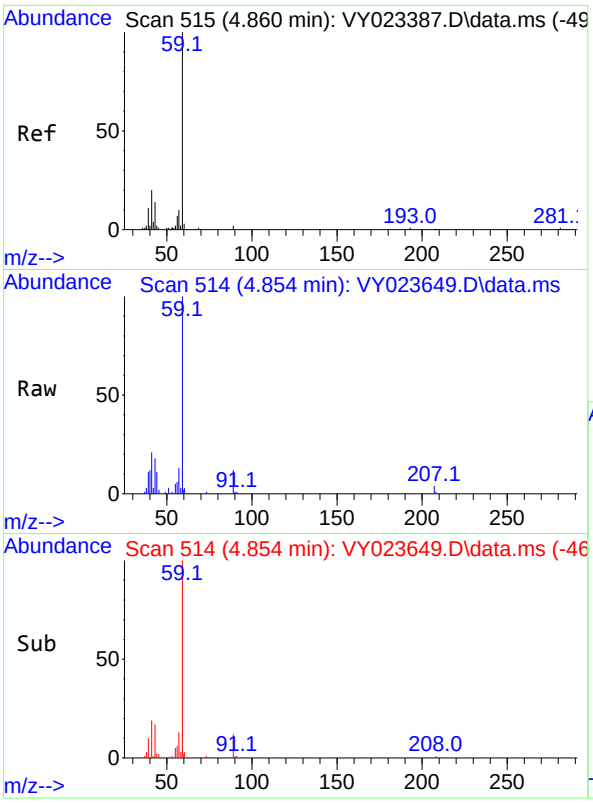


#10
Methyl Iodide
Concen: 19.933 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:142 Resp: 98282

Ion	Ratio	Lower	Upper
142	100		
127	42.6	34.8	52.2
141	14.0	11.6	17.4

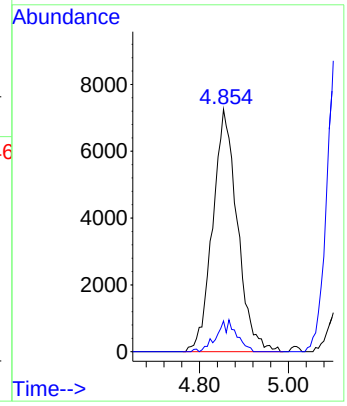




#11
Tert butyl alcohol
Concen: 93.431 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 59 Resp: 2797

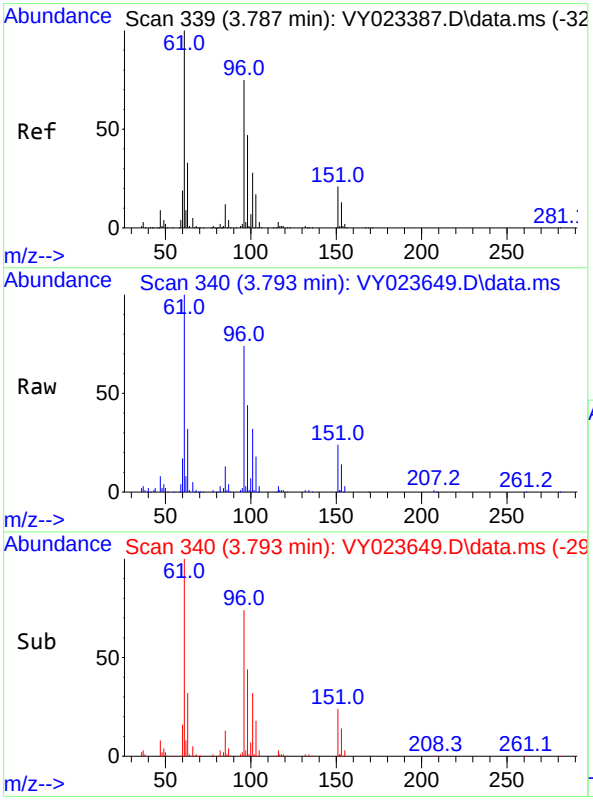
Ion	Ratio	Lower	Upper
59	100		
57	5.4	8.3	12.5#



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

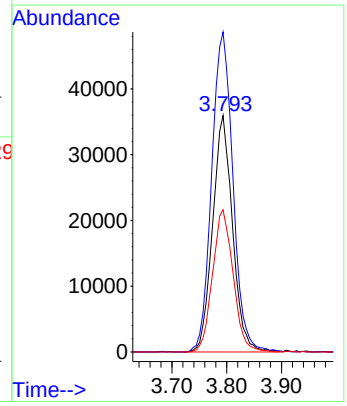
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

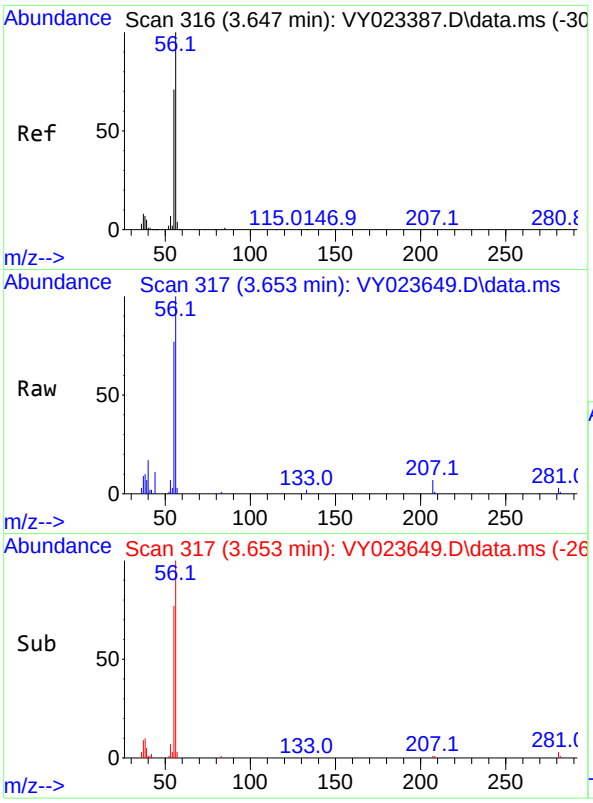


#12
1,1-Dichloroethene
Concen: 21.165 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 96 Resp: 90874

Ion	Ratio	Lower	Upper
96	100		
61	135.3	106.7	160.1
98	60.2	50.2	75.4

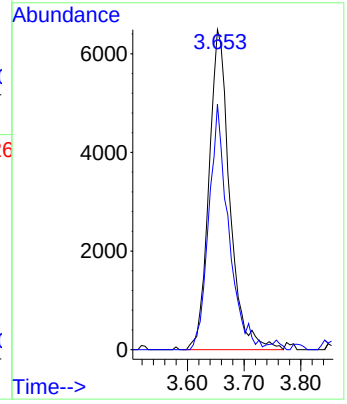




#13
Acrolein
Concen: 38.998 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 56 Resp: 1650

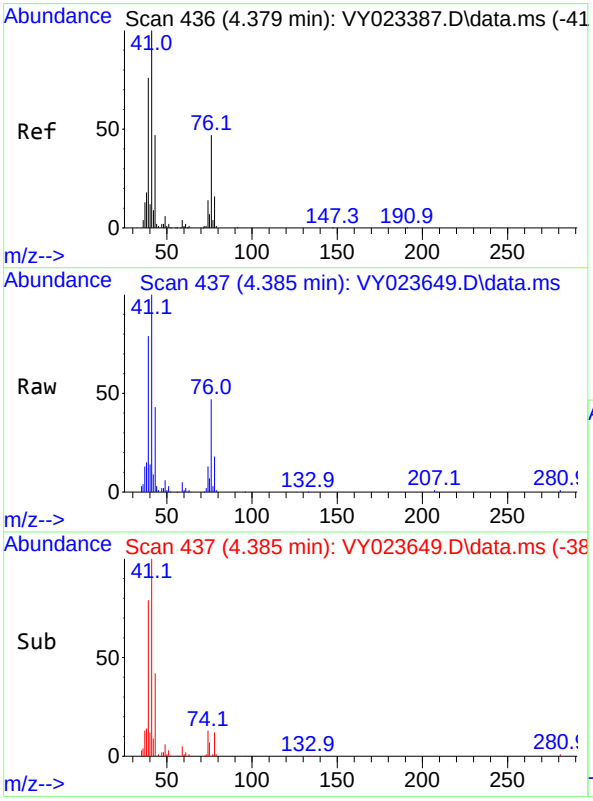
Ion	Ratio	Lower	Upper
56	100		
55	73.0	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

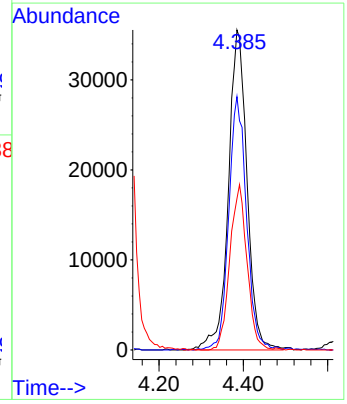
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

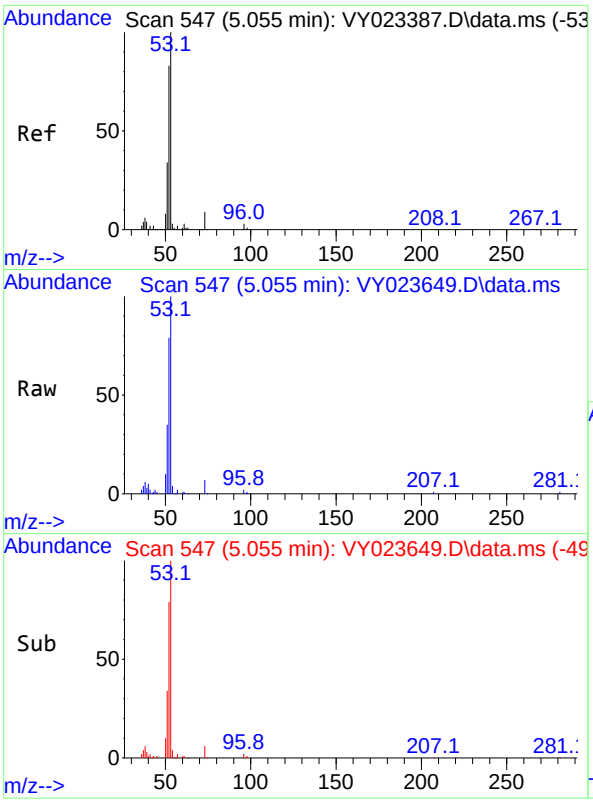


#14
Allyl chloride
Concen: 20.851 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 41 Resp: 109105

Ion	Ratio	Lower	Upper
41	100		
39	75.1	59.9	89.9
76	47.4	38.0	57.0

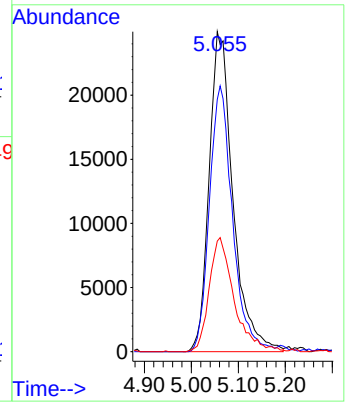




#15
Acrylonitrile
Concen: 102.793 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 53 Resp: 8773

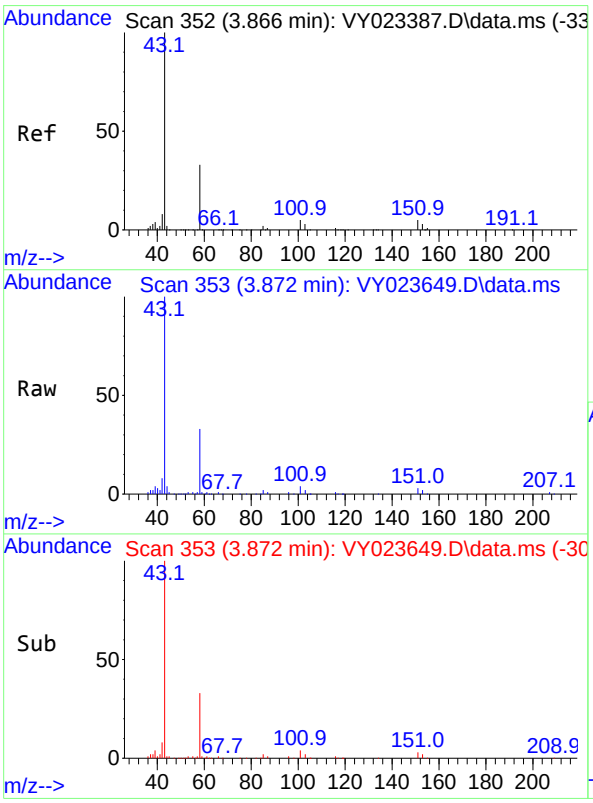
Ion	Ratio	Lower	Upper
53	100		
52	80.8	64.6	97.0
51	37.3	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

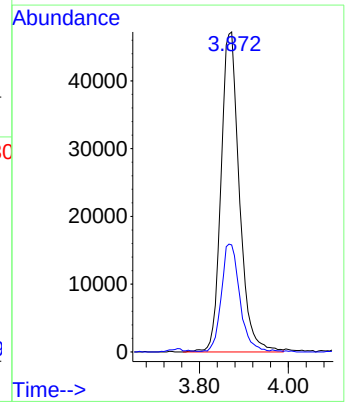
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

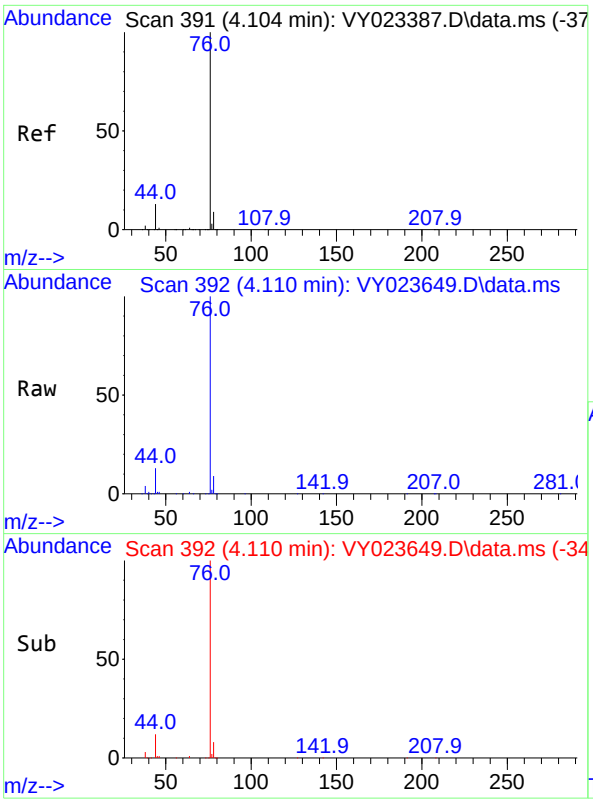


#16
Acetone
Concen: 140.775 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 43 Resp: 134890

Ion	Ratio	Lower	Upper
43	100		
58	33.3	27.7	41.5

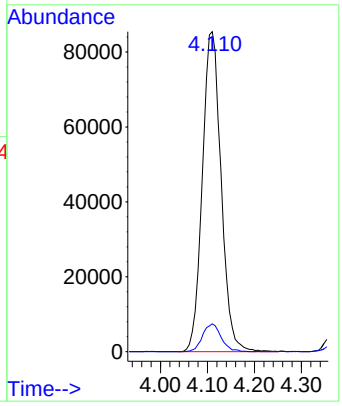




#17
Carbon Disulfide
Concen: 19.236 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 76 Resp: 23638

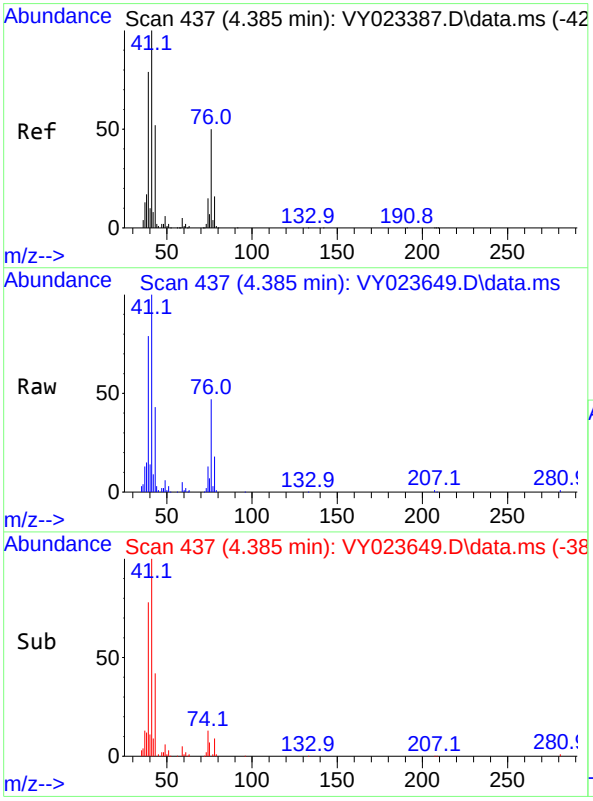
Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

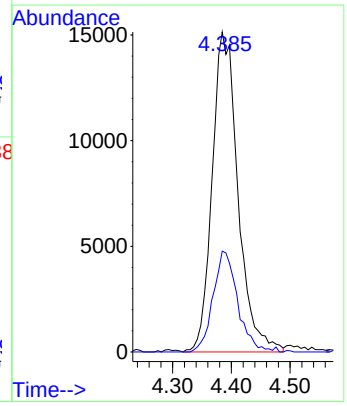
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

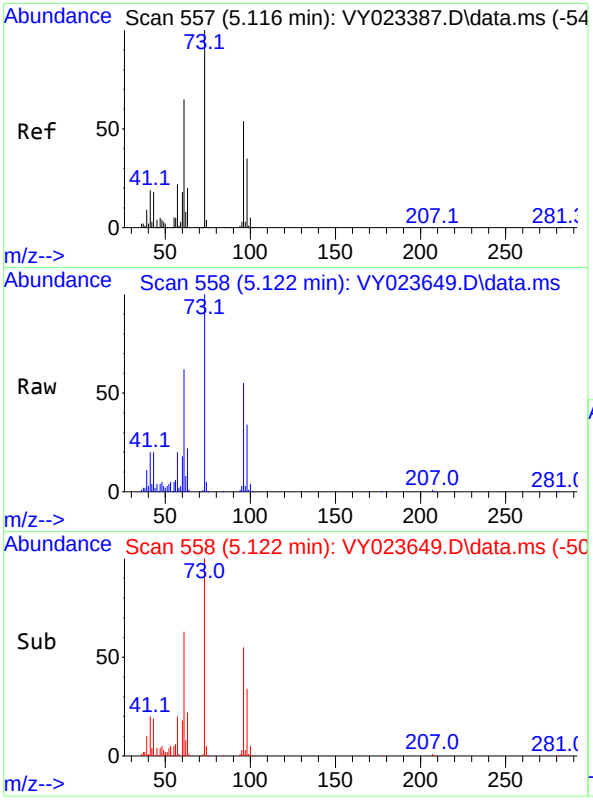


#18
Methyl Acetate
Concen: 18.402 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 43 Resp: 46254

Ion	Ratio	Lower	Upper
43	100		
74	30.1	24.2	36.4

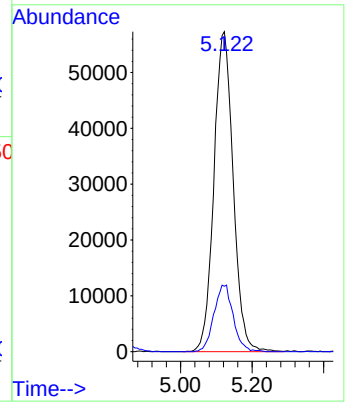




#19
Methyl tert-butyl Ether
Concen: 20.753 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 73 Resp: 21415

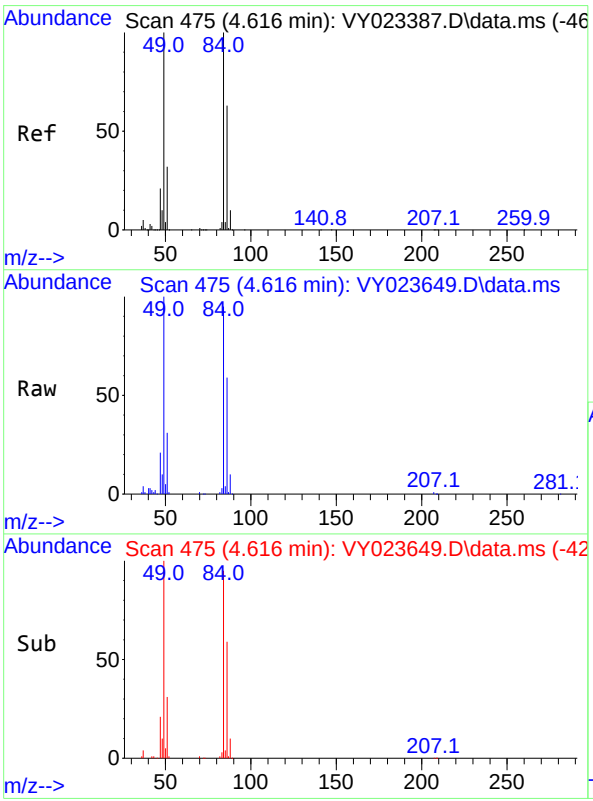
Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

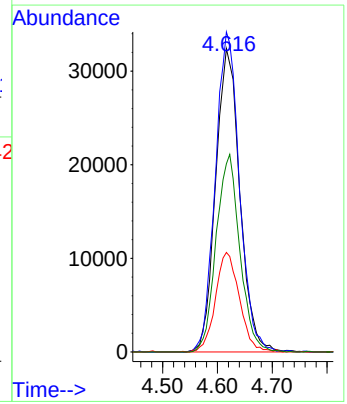
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

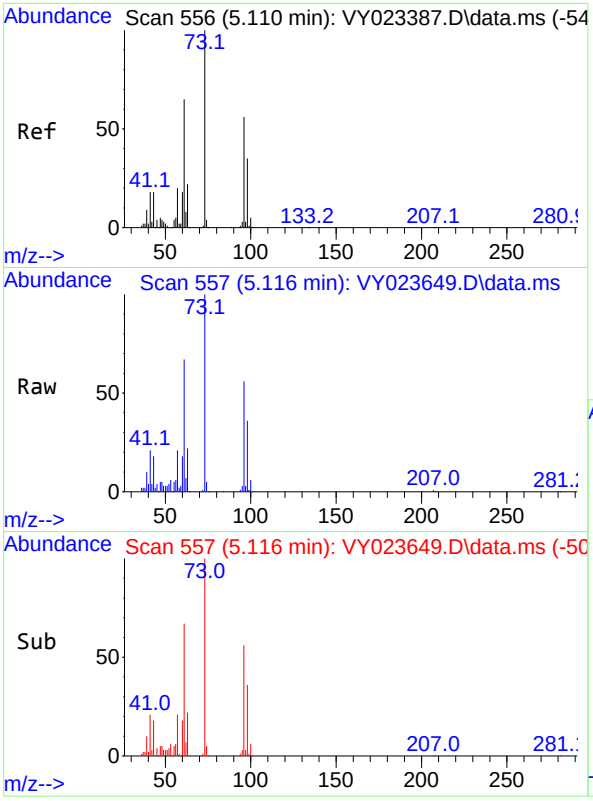


#20
Methylene Chloride
Concen: 19.175 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 84 Resp: 99354

Ion	Ratio	Lower	Upper
84	100		
49	105.5	80.2	120.4
51	32.8	25.9	38.9
86	62.1	50.6	75.8

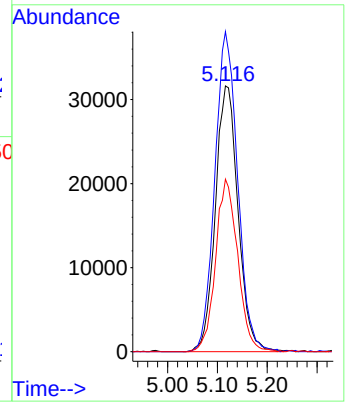




#21
trans-1,2-Dichloroethene
Concen: 21.197 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 96 Resp: 10019

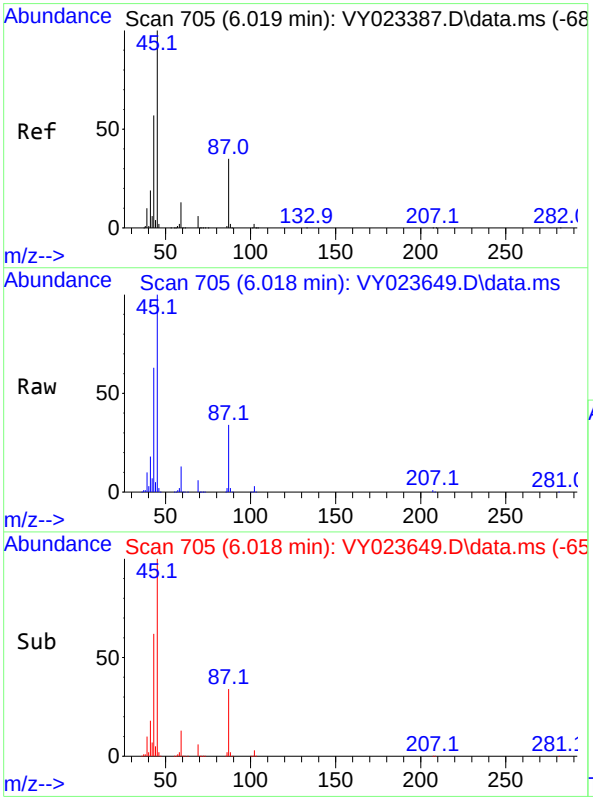
Ion	Ratio	Lower	Upper
96	100		
61	120.4	92.7	139.1
98	64.9	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

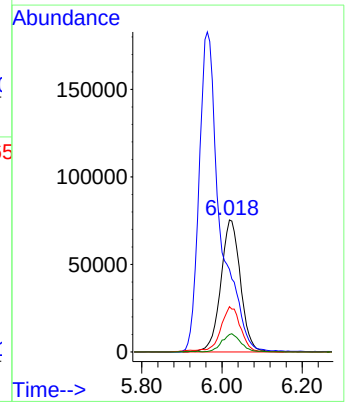
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

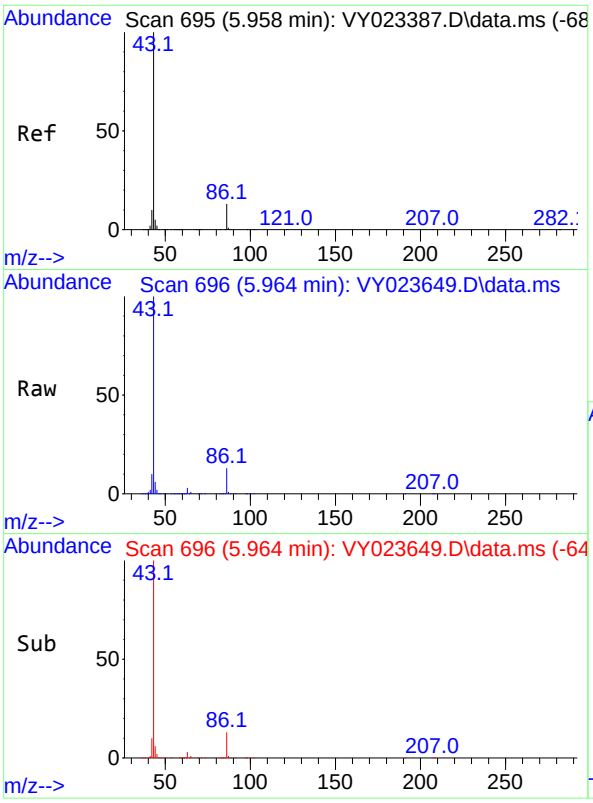


#22
Diisopropyl ether
Concen: 22.180 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 45 Resp: 256722

Ion	Ratio	Lower	Upper
45	100		
43	61.9	45.6	68.4
87	34.3	28.1	42.1
59	13.1	10.2	15.2

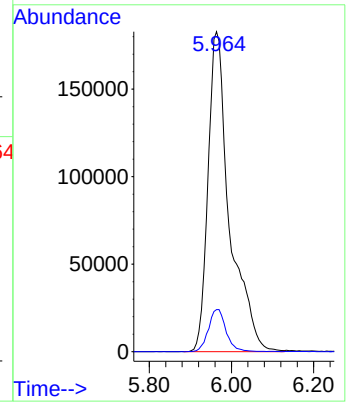




#23
Vinyl Acetate
Concen: 106.404 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 43 Resp: 66661

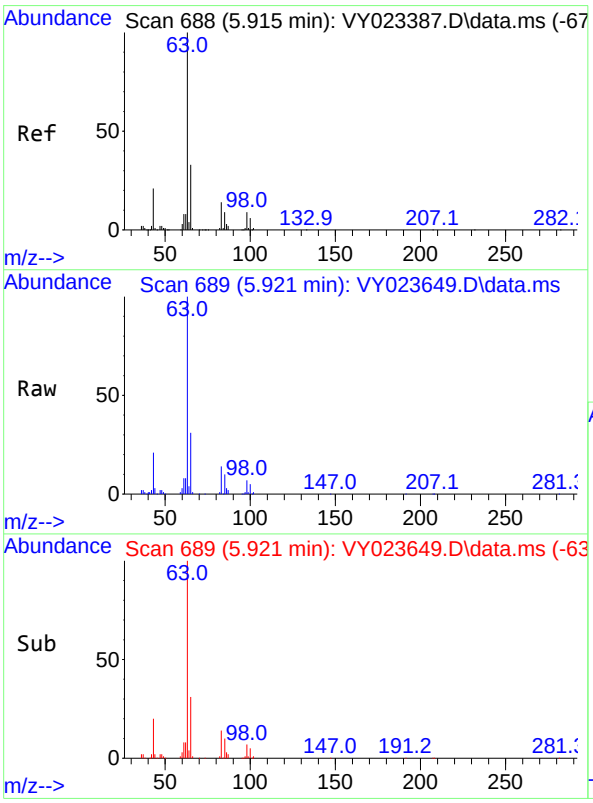
Ion	Ratio	Lower	Upper
43	100		
86	13.2	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

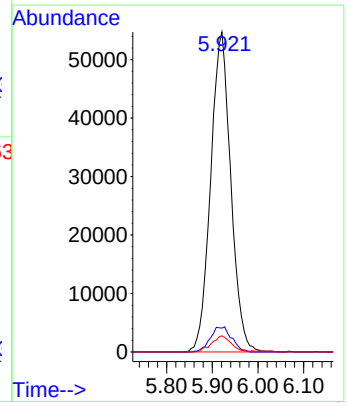
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

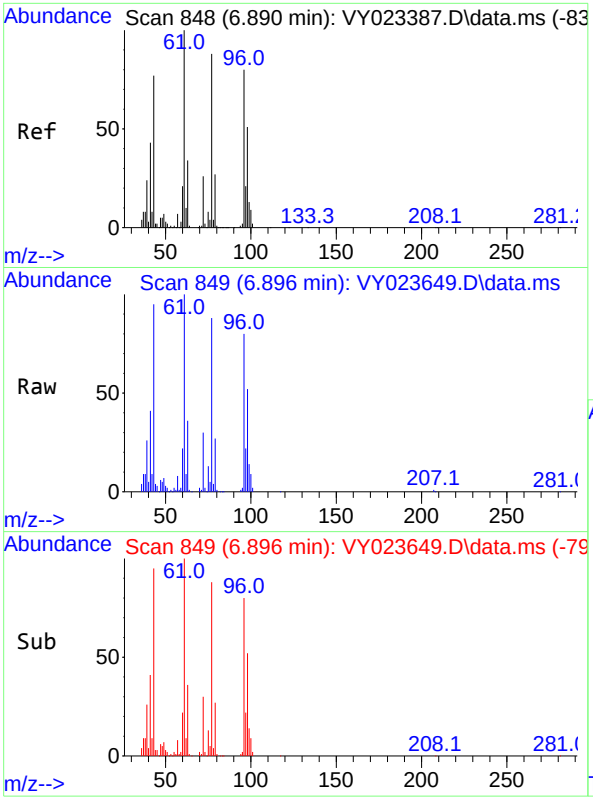


#24
1,1-Dichloroethane
Concen: 21.846 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 63 Resp: 167493

Ion	Ratio	Lower	Upper
63	100		
98	7.4	4.3	13.1
100	5.0	2.8	8.4

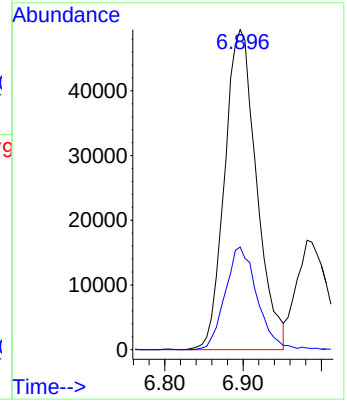




#25
2-Butanone
Concen: 119.726 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 43 Resp: 14005

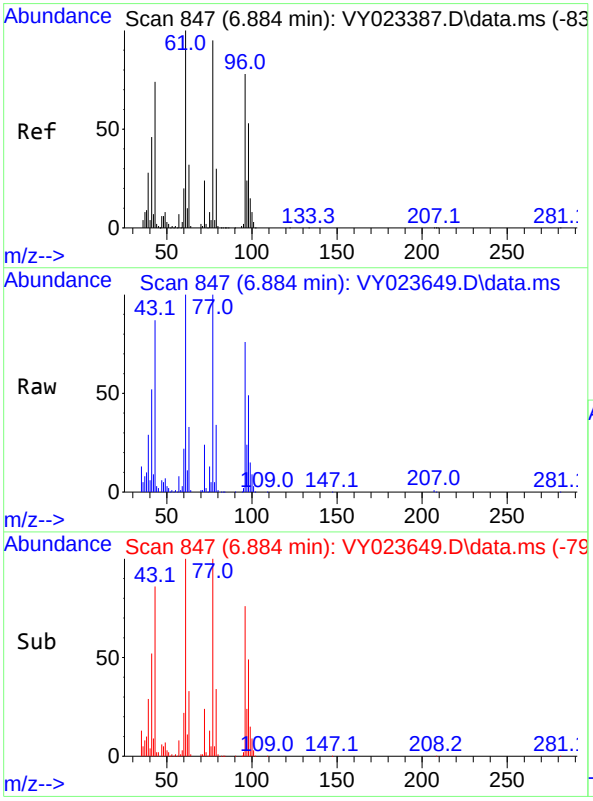
Ion	Ratio	Lower	Upper
43	100		
72	32.0	27.4	41.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

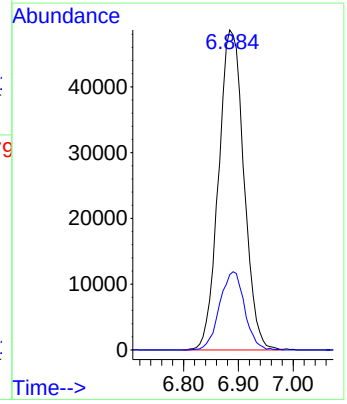
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

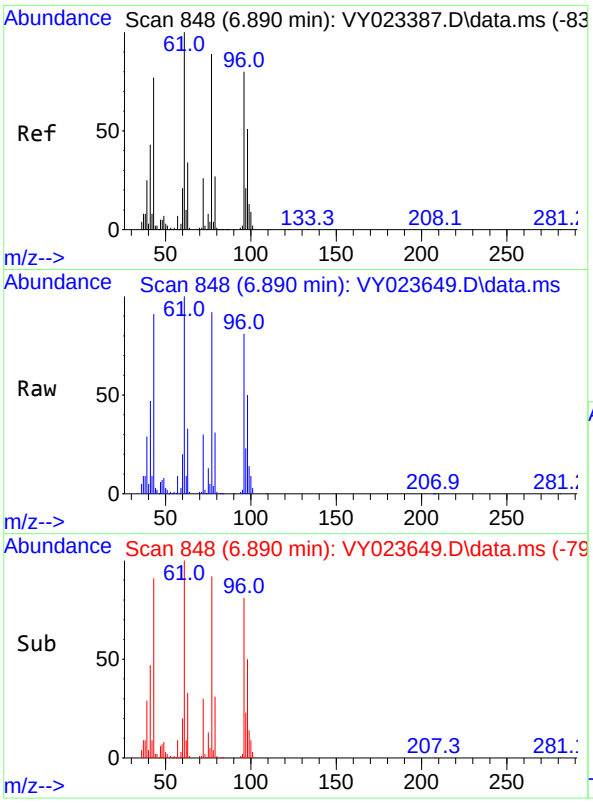


#26
2,2-Dichloropropane
Concen: 22.161 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 77 Resp: 155908

Ion	Ratio	Lower	Upper
77	100		
97	24.1	12.1	36.3





#27
cis-1,2-Dichloroethene
Concen: 21.730 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

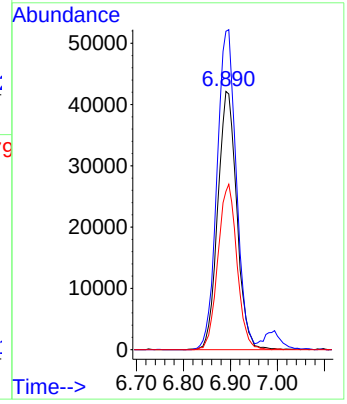
Tgt Ion: 96 Resp: 11865

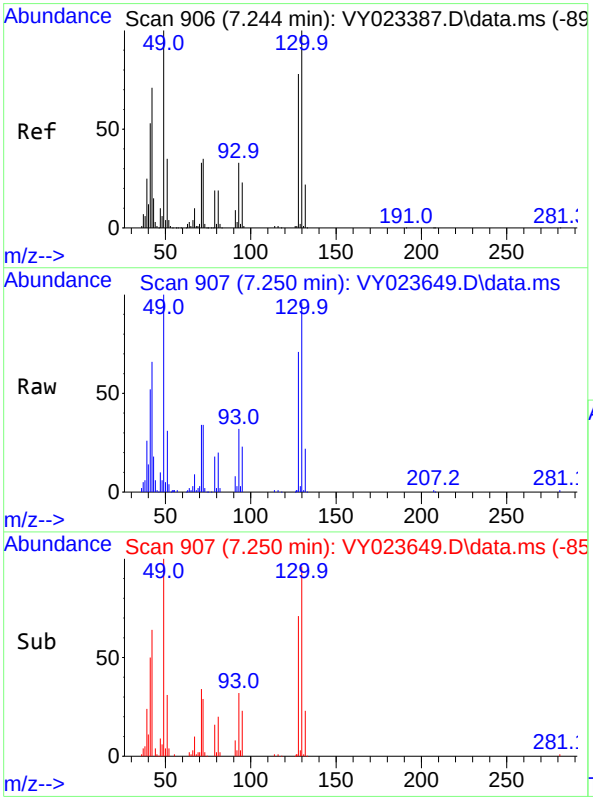
Ion	Ratio	Lower	Upper
96	100		
61	125.3	0.0	258.2
98	63.9	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

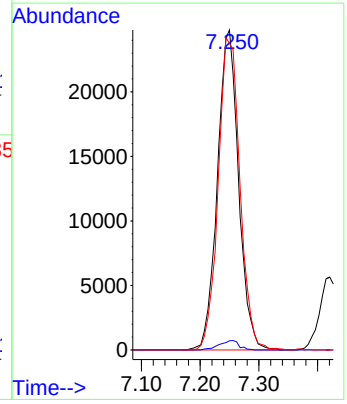


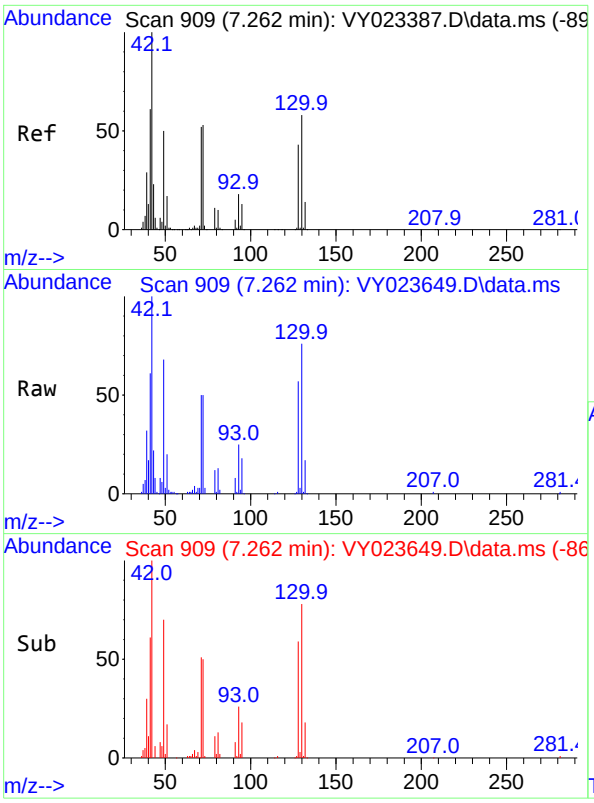


#28
Bromochloromethane
Concen: 21.641 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 49 Resp: 61941

Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	5.6
130	100.4	81.9	122.9

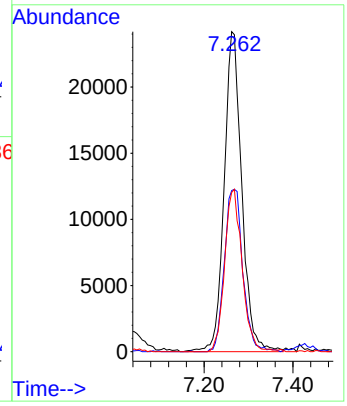




#29
Tetrahydrofuran
Concen: 100.052 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 42 Resp: 6637

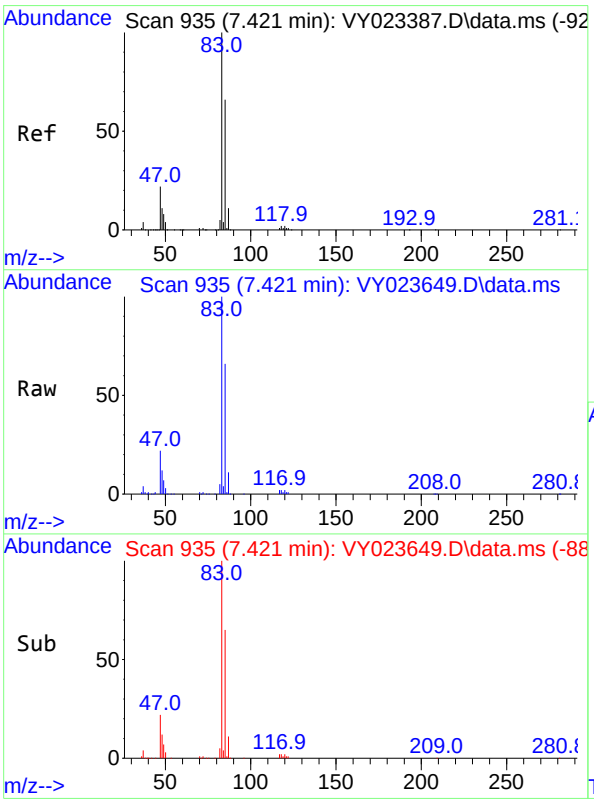
Ion	Ratio	Lower	Upper
42	100		
72	53.2	43.0	64.6
71	50.3	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
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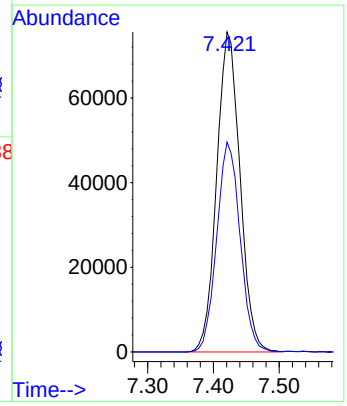
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

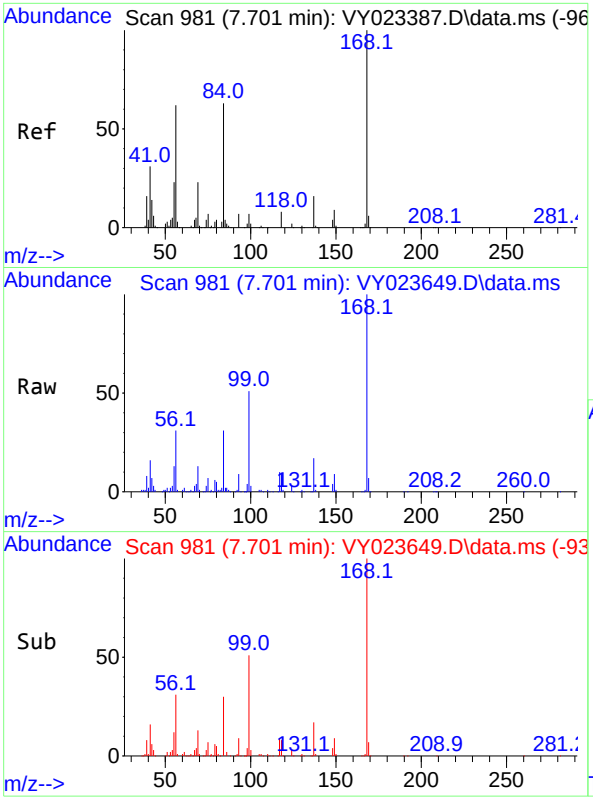


#30
Chloroform
Concen: 22.163 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 83 Resp: 186689

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.5	78.7

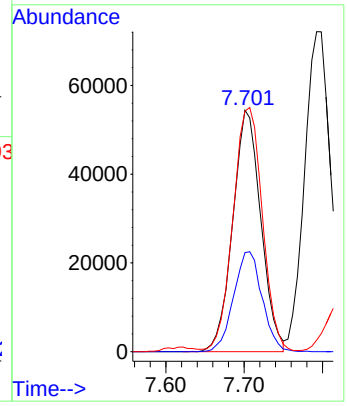




#31
Cyclohexane
Concen: 20.247 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 56 Resp: 13556

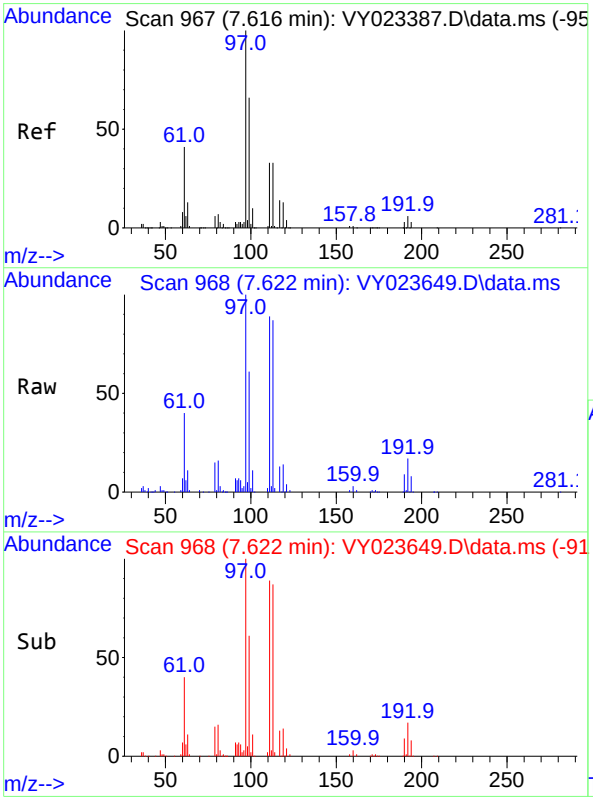
Ion	Ratio	Lower	Upper
56	100		
69	41.0	30.0	45.0
84	97.7	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
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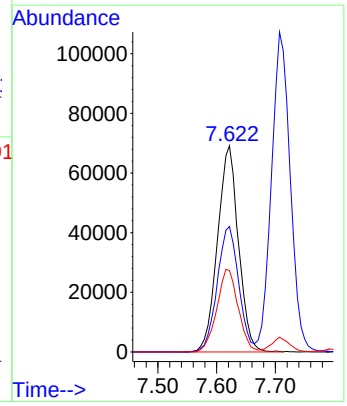
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

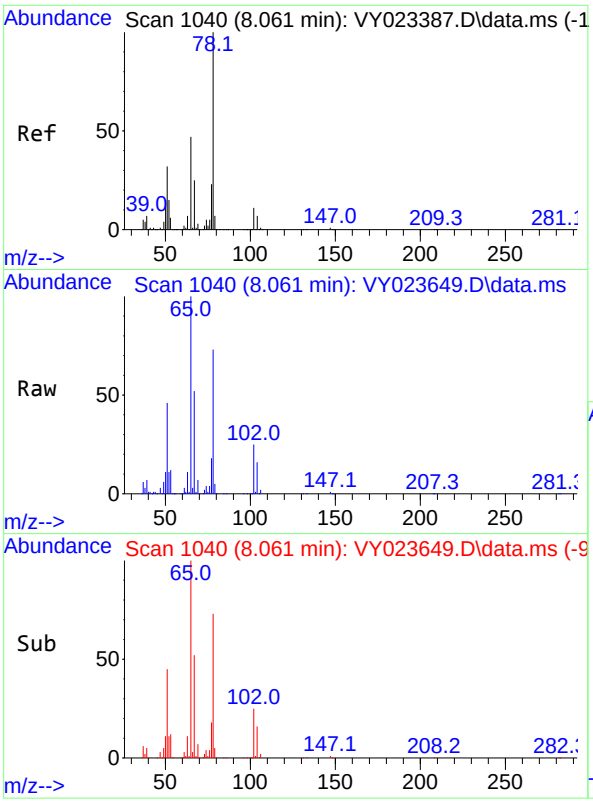


#32
1,1,1-Trichloroethane
Concen: 22.338 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 97 Resp: 170996

Ion	Ratio	Lower	Upper
97	100		
99	62.6	51.4	77.2
61	40.8	31.9	47.9

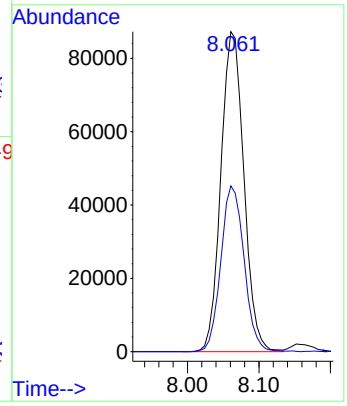




#33
1,2-Dichloroethane-d4
Concen: 48.399 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 65 Resp: 19479

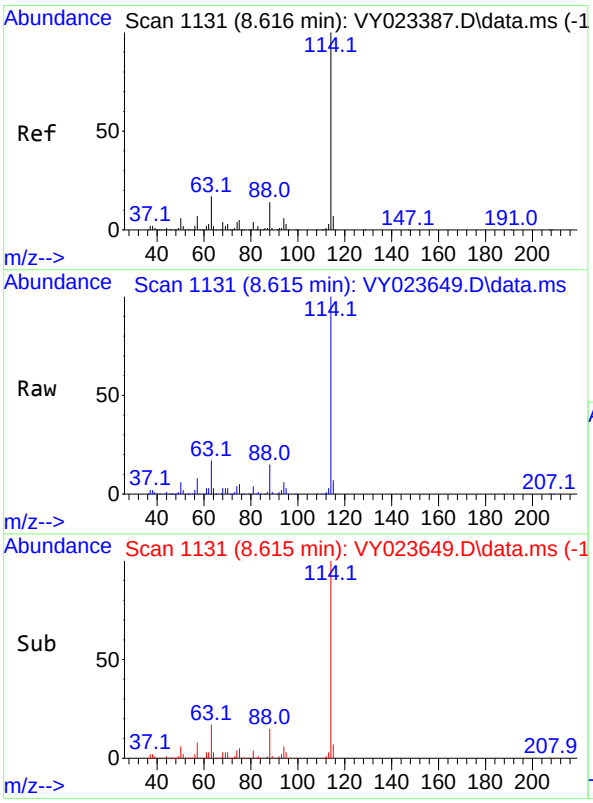
Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
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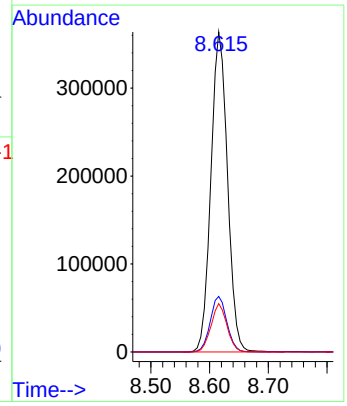
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

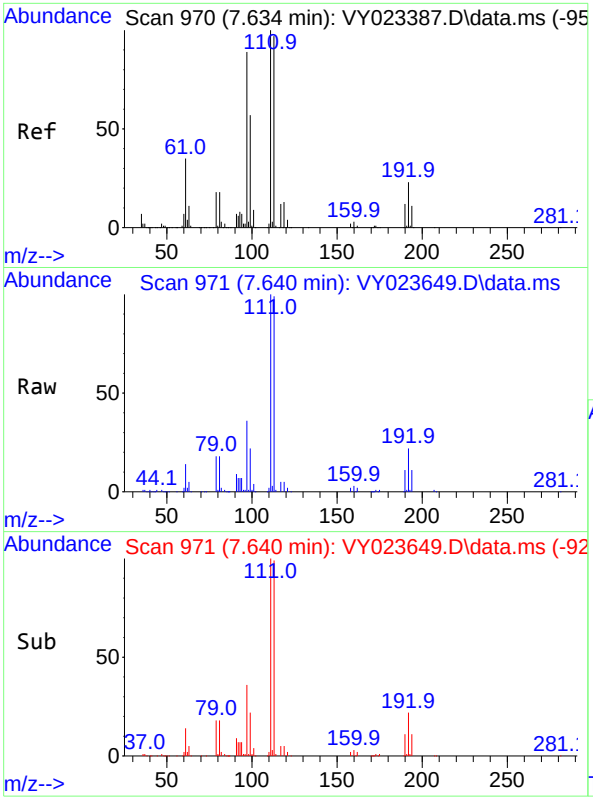


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:114 Resp: 711663

Ion	Ratio	Lower	Upper
114	100		
63	17.4	0.0	34.2
88	15.1	0.0	28.4

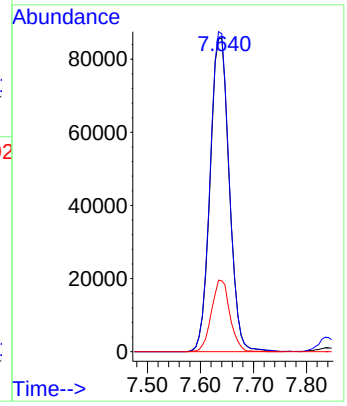




#35
Dibromofluoromethane
Concen: 49.151 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:113 Resp: 21492

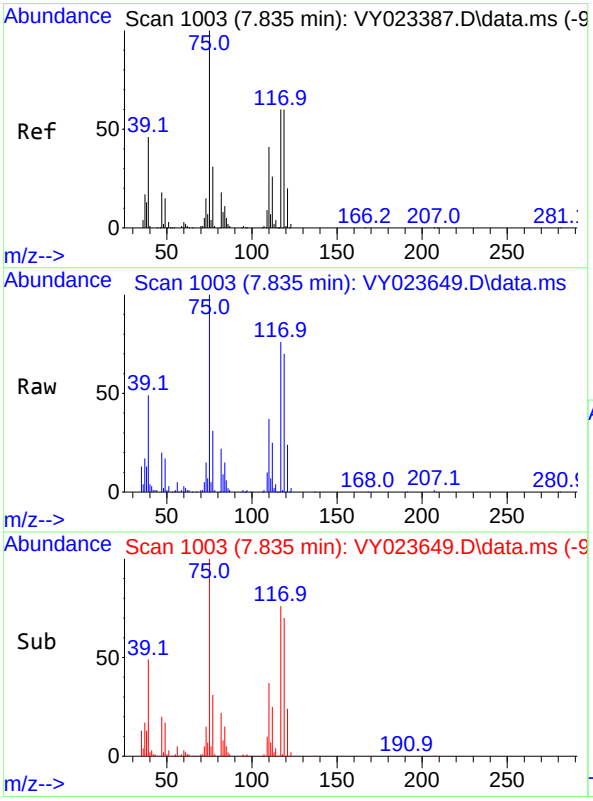
Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.6
192	22.0	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
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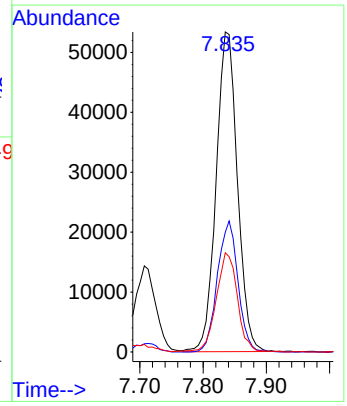
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

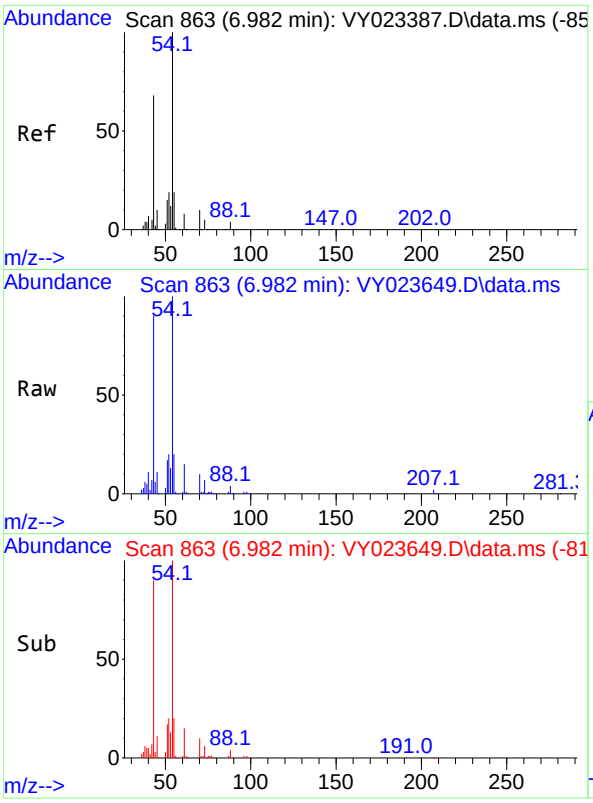


#36
1,1-Dichloropropene
Concen: 21.528 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 75 Resp: 124627

Ion	Ratio	Lower	Upper
75	100		
110	39.6	19.9	59.7
77	30.9	25.0	37.6





#37
Ethyl Acetate
Concen: 20.665 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

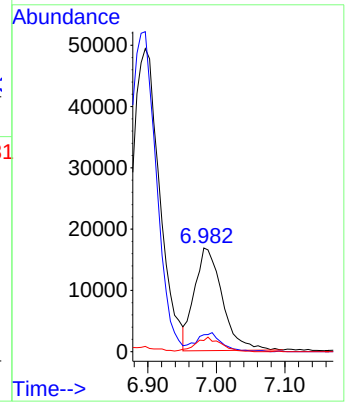
Tgt Ion: 43 Resp: 4739

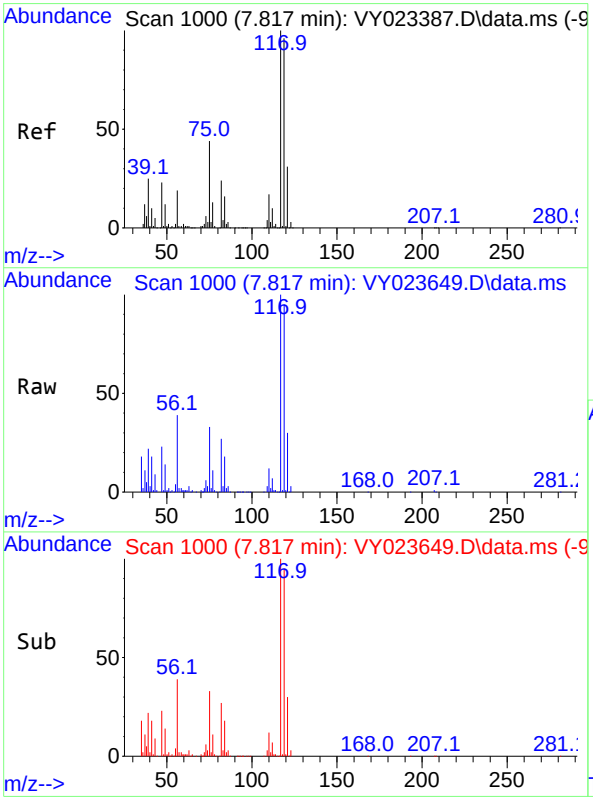
Ion	Ratio	Lower	Upper
43	100		
61	15.4	11.8	17.8
70	12.8	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

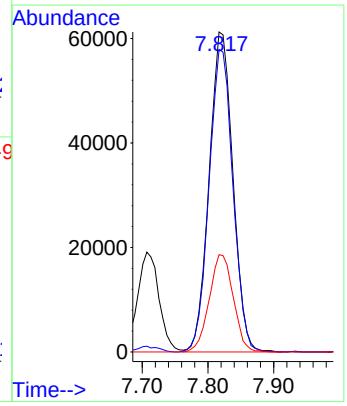


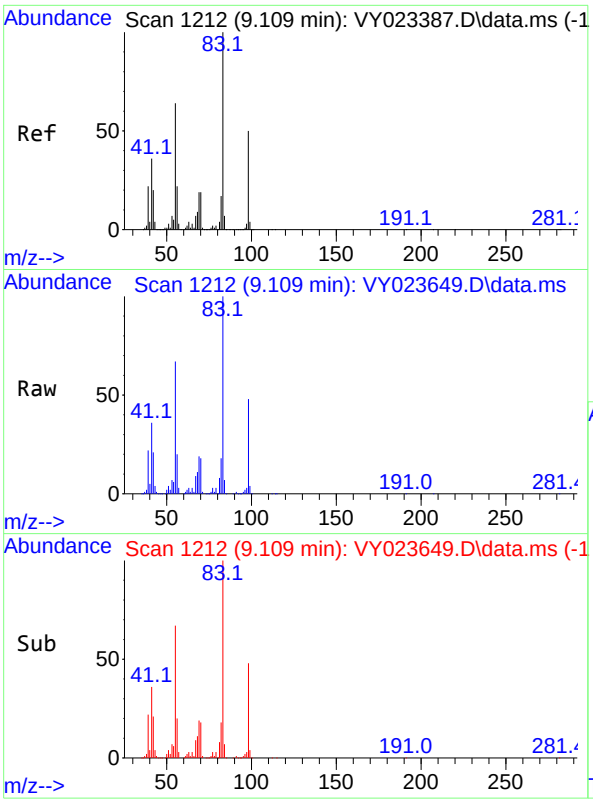


#38
Carbon Tetrachloride
Concen: 21.906 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:117 Resp: 153775

Ion	Ratio	Lower	Upper
117	100		
119	94.4	76.8	115.2
121	30.4	24.5	36.7

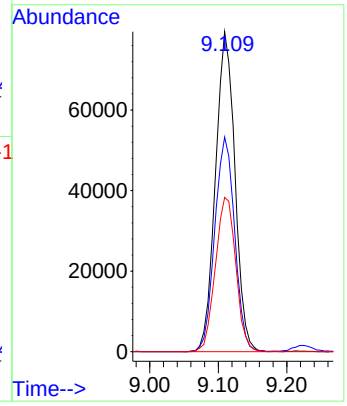




#39
Methylcyclohexane
Concen: 20.774 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 83 Resp: 15658

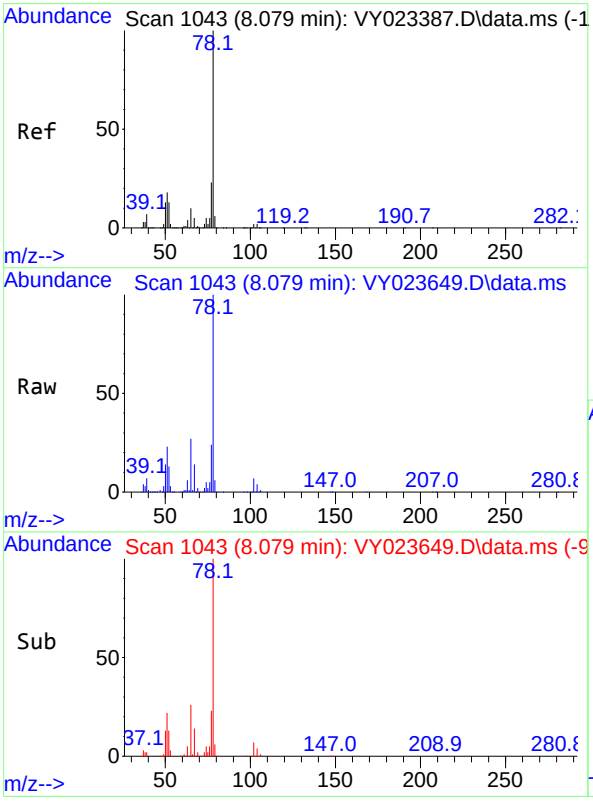
Ion	Ratio	Lower	Upper
83	100		
55	67.0	51.4	77.2
98	48.2	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
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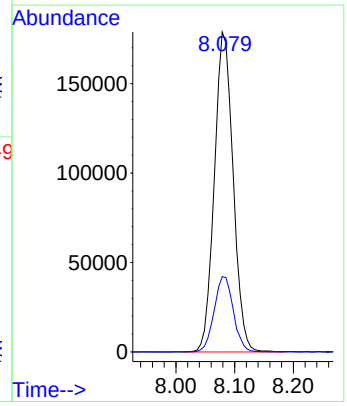
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

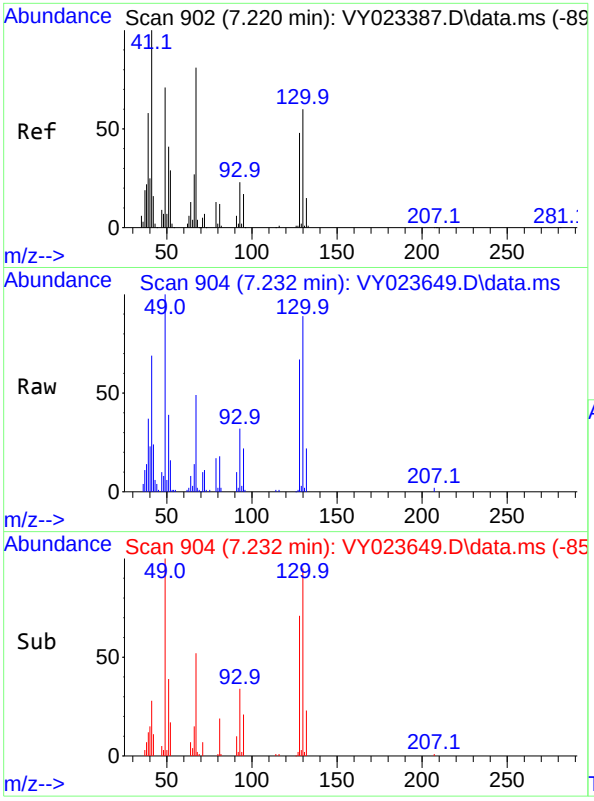


#40
Benzene
Concen: 21.698 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 78 Resp: 397815

Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.3	27.5

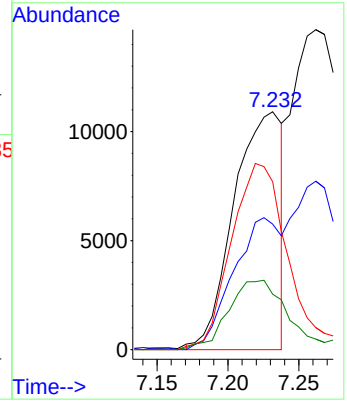




#41
Methacrylonitrile
Concen: 20.817 ug/l m
RT: 7.232 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 41 Resp: 2582

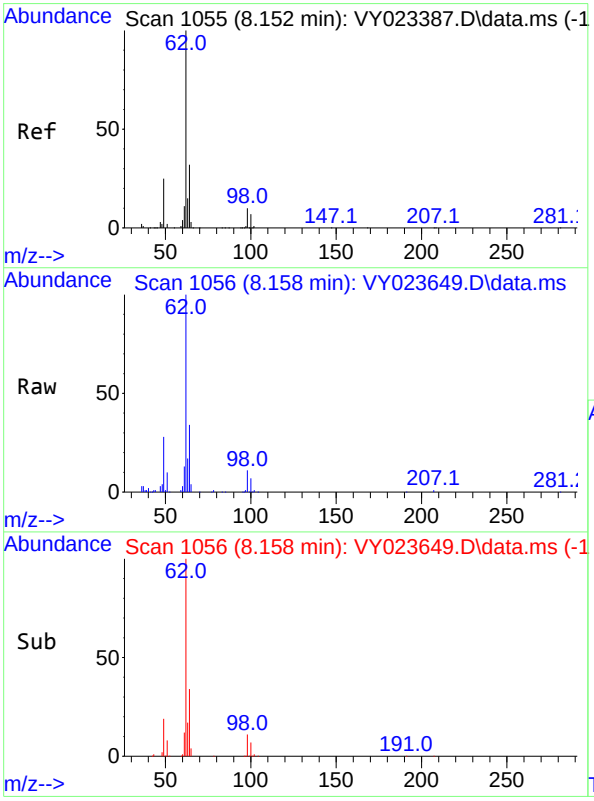
Ion	Ratio	Lower	Upper
41	100		
39	81.4	52.2	78.4#
67	0.0	74.9	112.3#
52	0.0	29.2	43.8#



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
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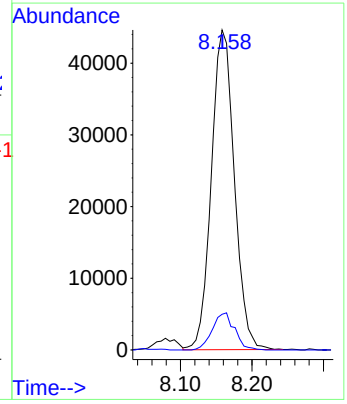
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

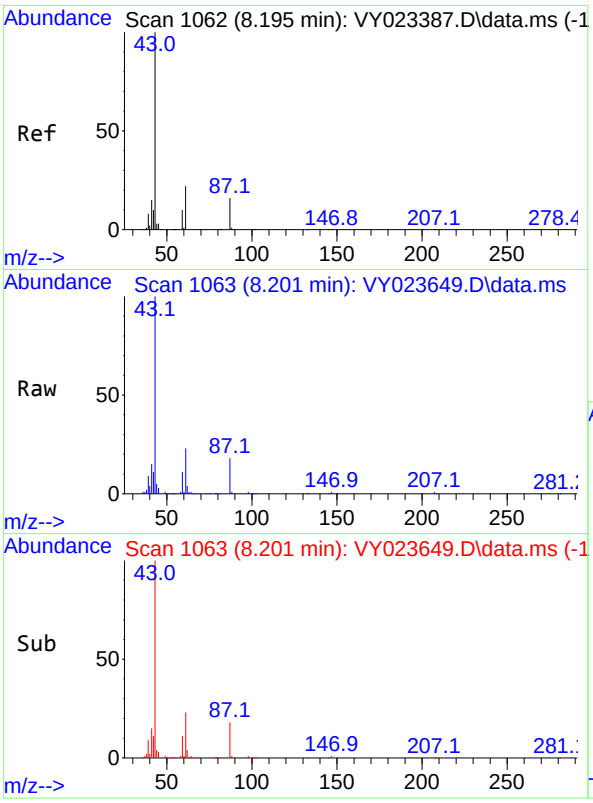


#42
1,2-Dichloroethane
Concen: 21.081 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 62 Resp: 99679

Ion	Ratio	Lower	Upper
62	100		
98	11.2	0.0	21.6

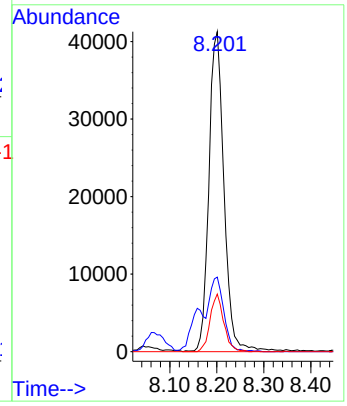




#43
Isopropyl Acetate
Concen: 20.141 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 43 Resp: 9211

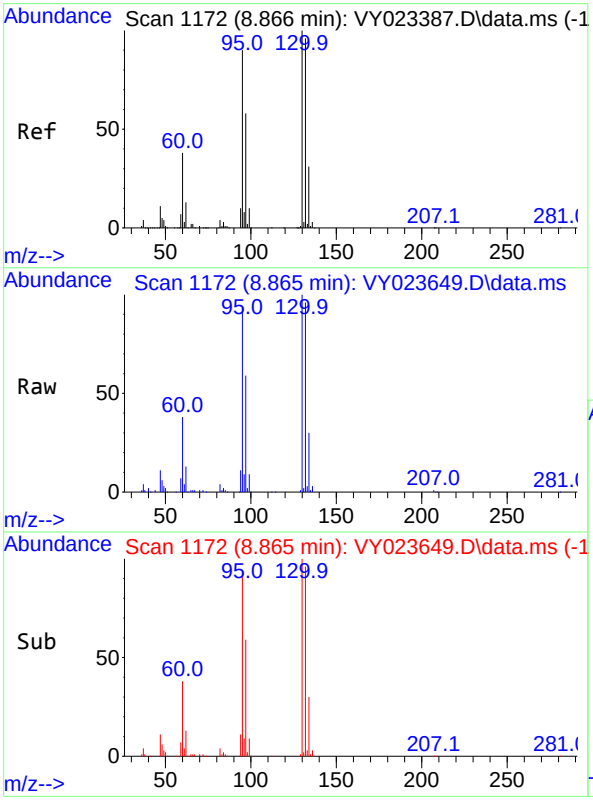
Ion	Ratio	Lower	Upper
43	100		
61	22.1	18.1	27.1
87	16.3	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
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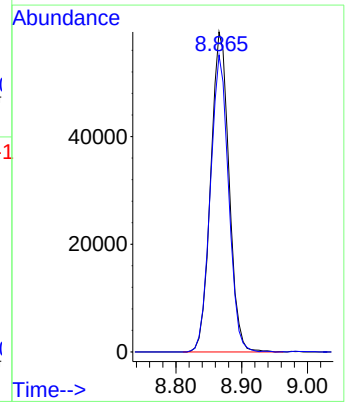
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

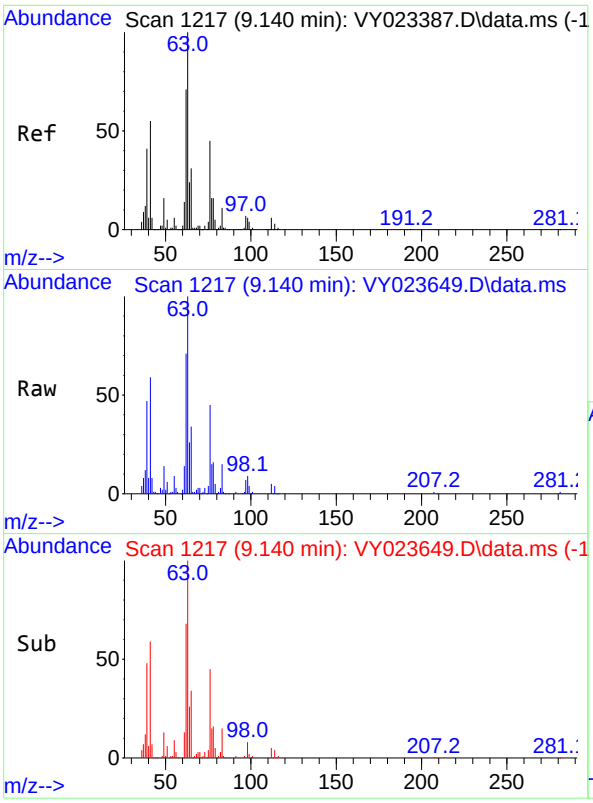


#44
Trichloroethene
Concen: 21.427 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:130 Resp: 114980

Ion	Ratio	Lower	Upper
130	100		
95	92.7	0.0	180.6

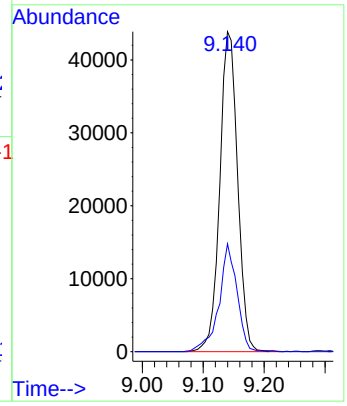




#45
1,2-Dichloropropane
Concen: 22.005 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 63 Resp: 8910

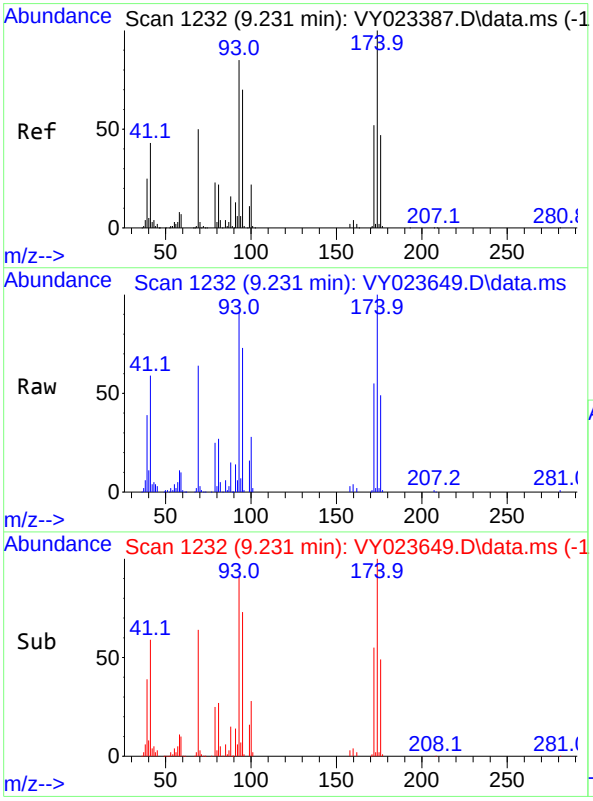
Ion	Ratio	Lower	Upper
63	100		
65	33.7	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

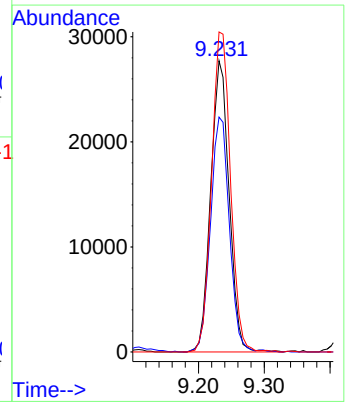
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

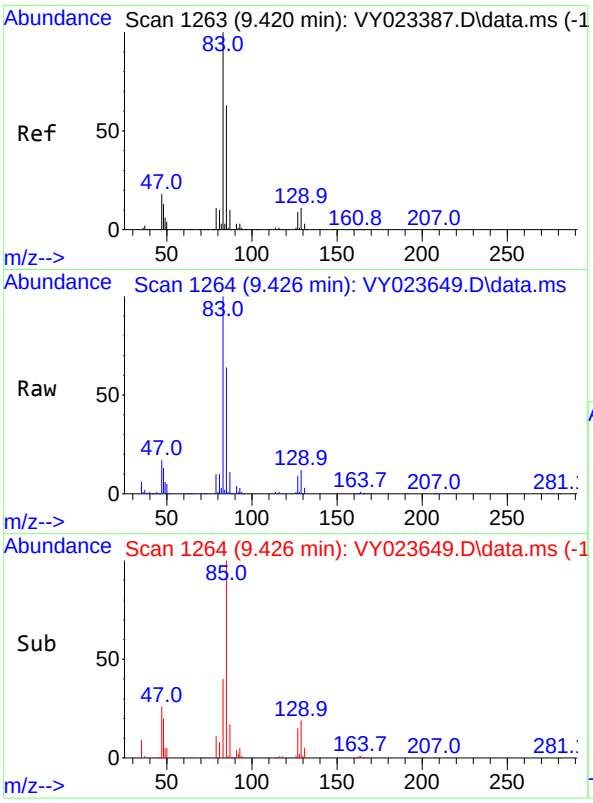


#46
Dibromomethane
Concen: 21.082 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 93 Resp: 53984

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.4	98.0
174	112.9	92.9	139.3

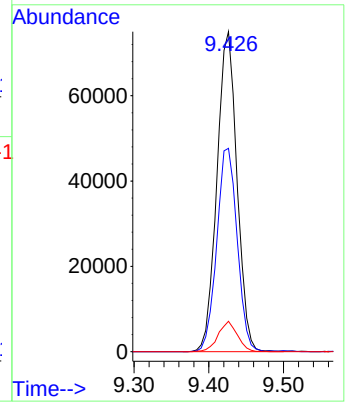




#47
Bromodichloromethane
Concen: 21.670 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 83 Resp: 13975

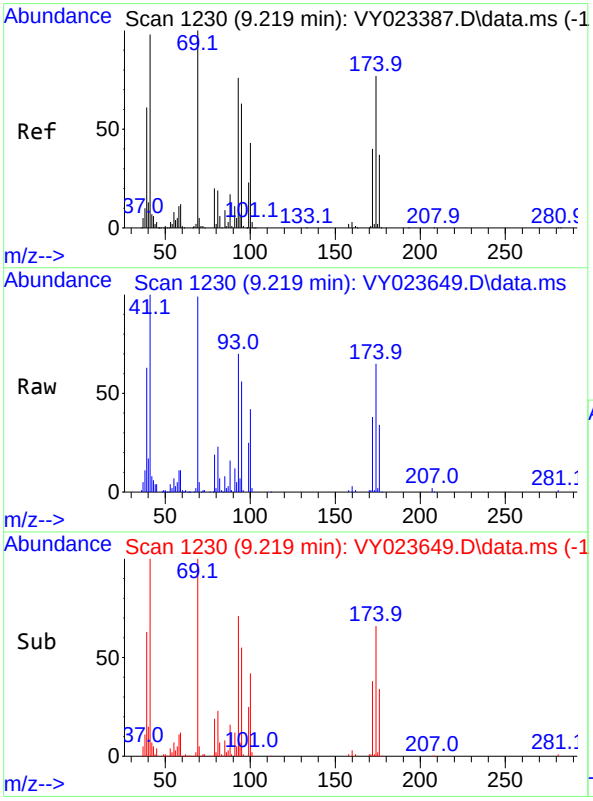
Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.8	76.2
127	9.5	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

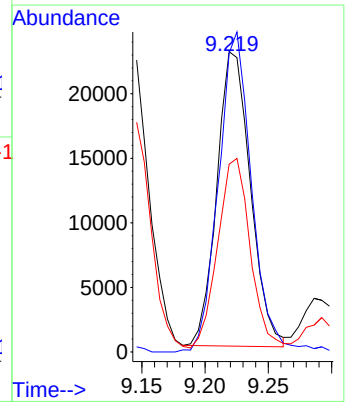
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

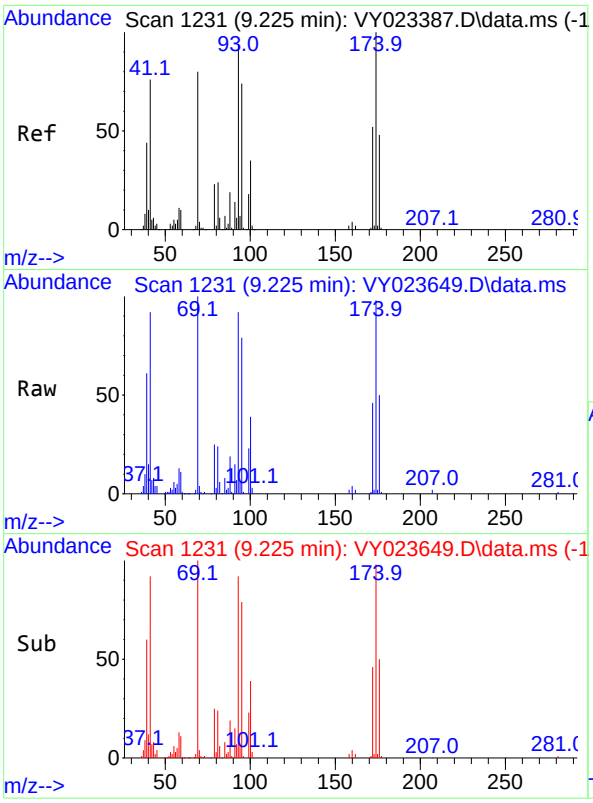


#48
Methyl methacrylate
Concen: 19.595 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 41 Resp: 42099

Ion	Ratio	Lower	Upper
41	100		
69	108.0	81.0	121.4
39	62.8	48.2	72.4

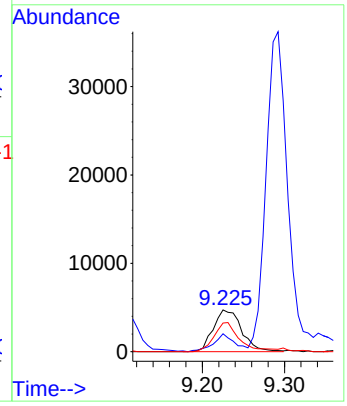




#49
1,4-Dioxane
Concen: 384.020 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 88 Resp: 1140

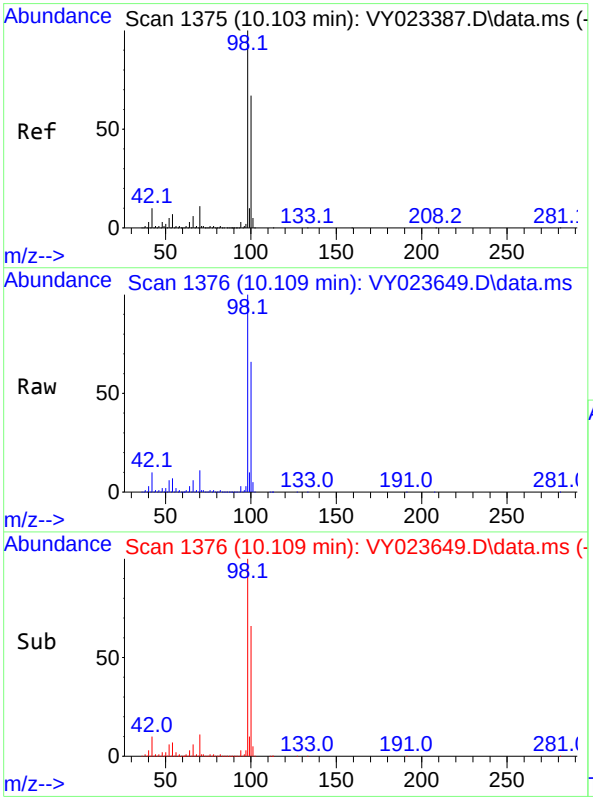
Ion	Ratio	Lower	Upper
88	100		
43	32.2	21.8	32.8
58	61.6	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

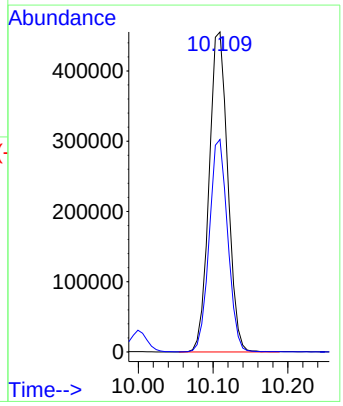
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

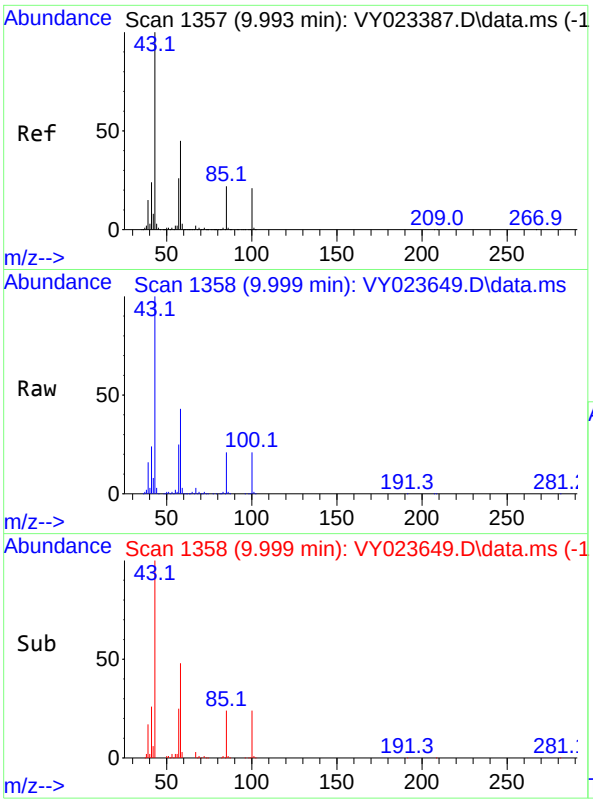


#50
Toluene-d8
Concen: 48.458 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 98 Resp: 789137

Ion	Ratio	Lower	Upper
98	100		
100	65.6	53.0	79.4

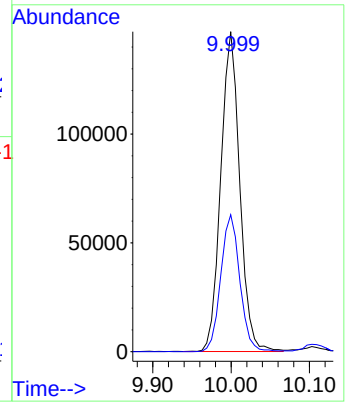




#51
4-Methyl-2-Pentanone
Concen: 104.746 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 43 Resp: 24750

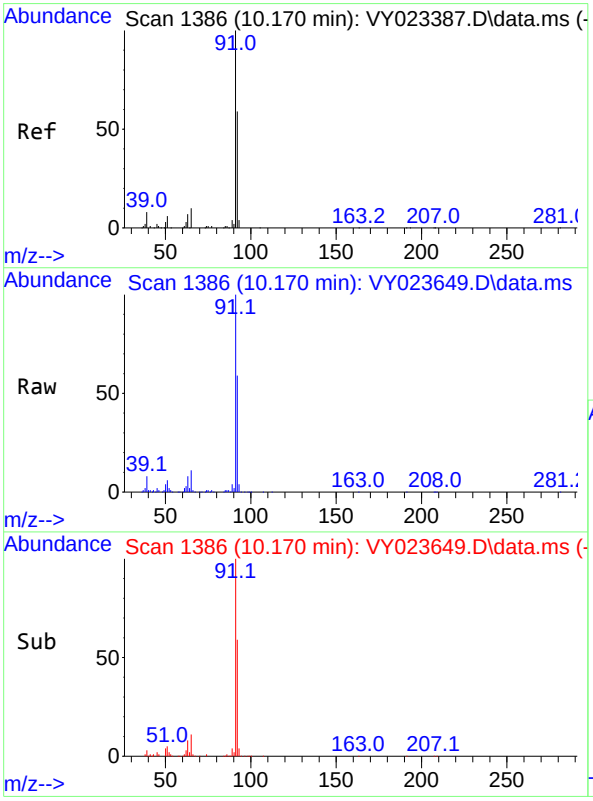
Ion	Ratio	Lower	Upper
43	100		
58	43.2	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

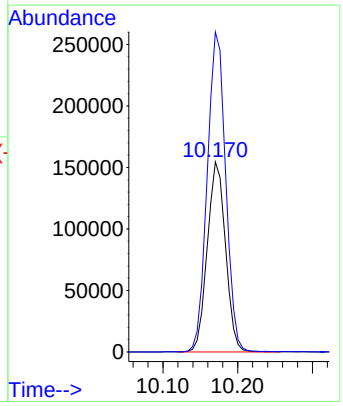
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

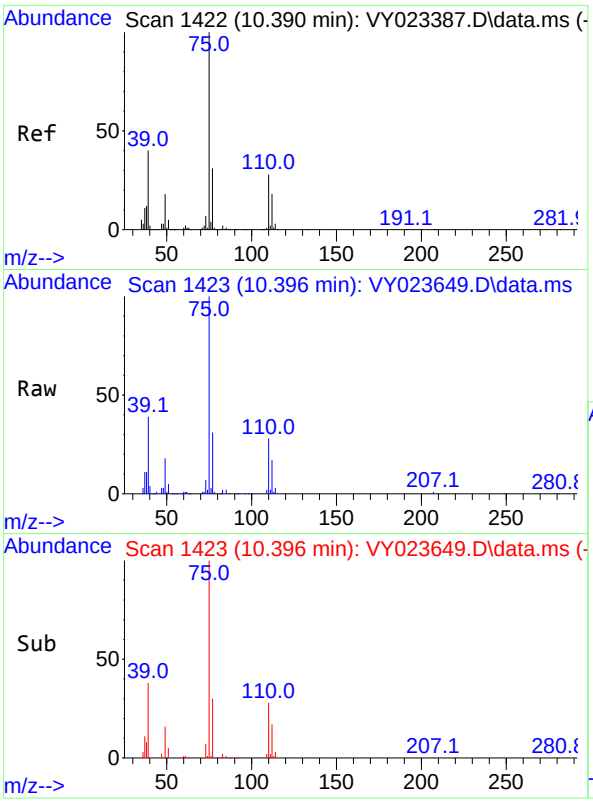


#52
Toluene
Concen: 21.987 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 92 Resp: 261736

Ion	Ratio	Lower	Upper
92	100		
91	170.5	136.4	204.6

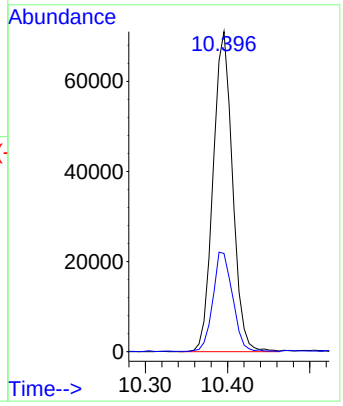




#53
t-1,3-Dichloropropene
Concen: 20.785 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 75 Resp: 11655

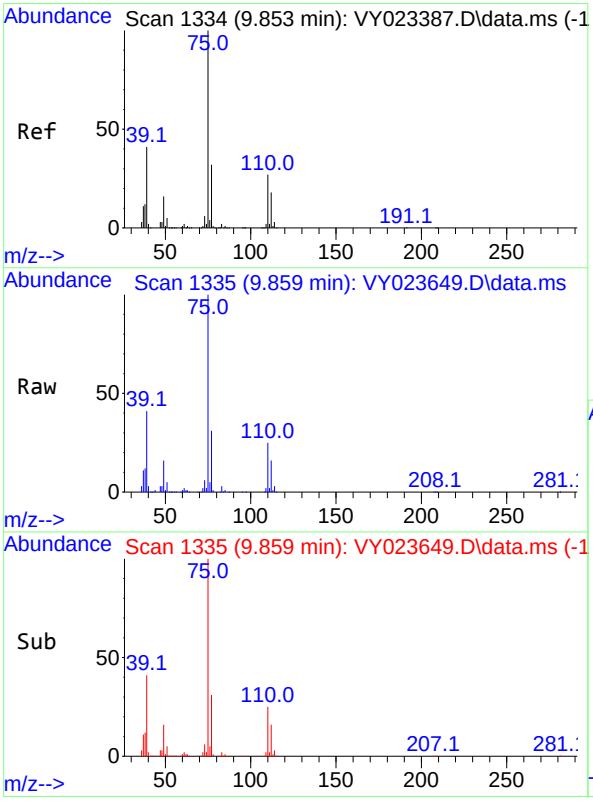
Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

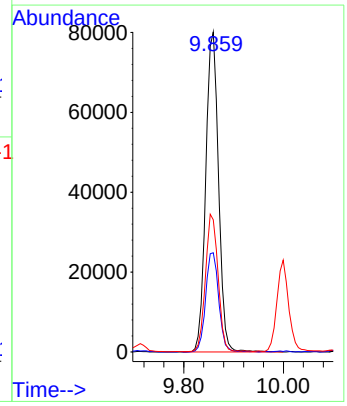
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

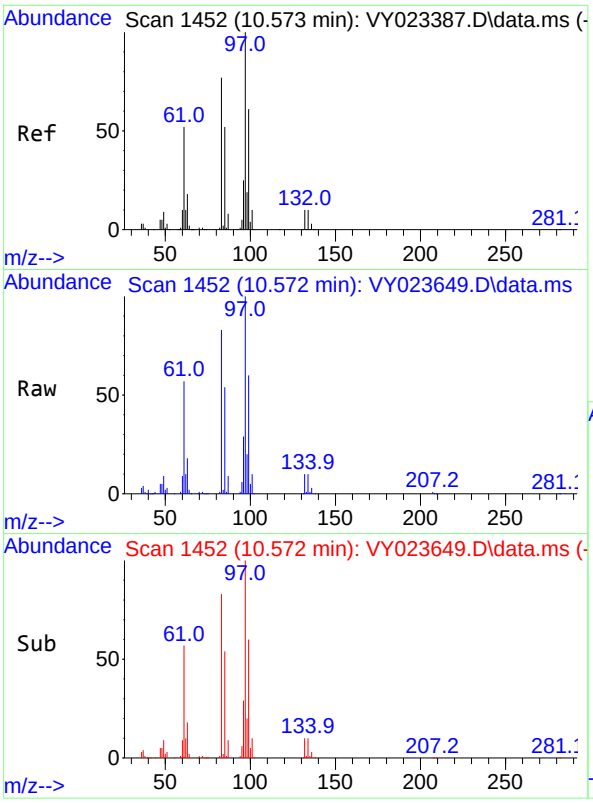


#54
cis-1,3-Dichloropropene
Concen: 21.515 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 75 Resp: 142391

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.4	38.0
39	41.2	32.8	49.2

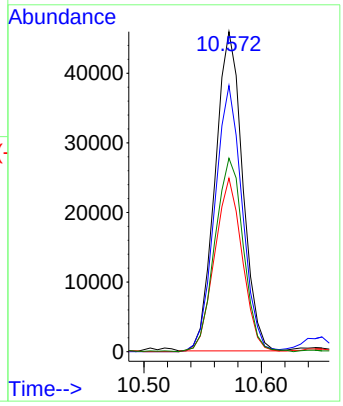




#55
1,1,2-Trichloroethane
Concen: 21.676 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 97 Resp: 7464

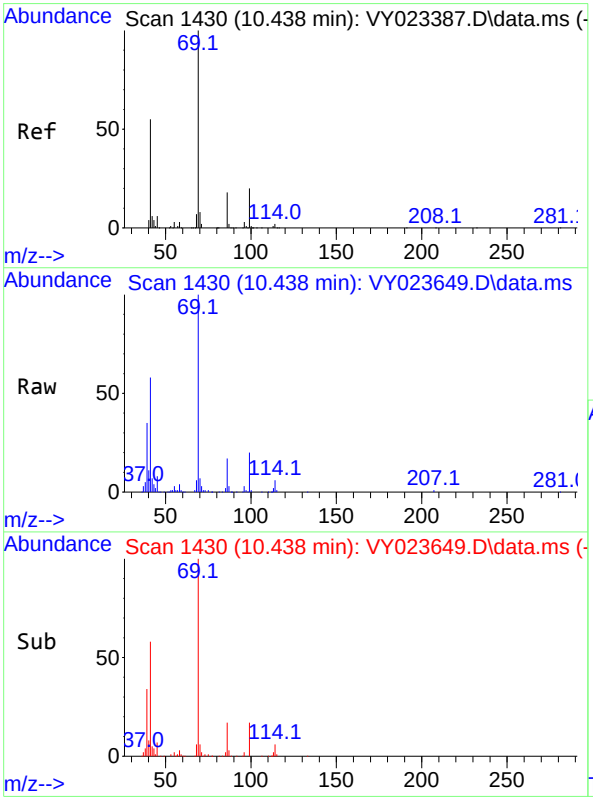
Ion	Ratio	Lower	Upper
97	100		
83	83.4	61.8	92.6
85	54.3	41.3	61.9
99	60.6	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

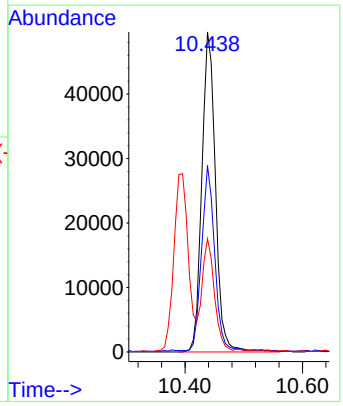
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

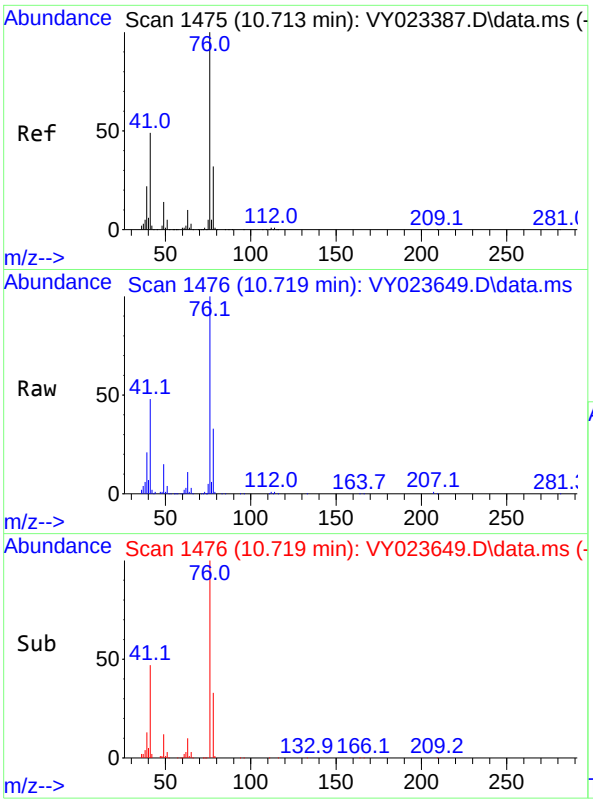


#56
Ethyl methacrylate
Concen: 20.125 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 69 Resp: 79936

Ion	Ratio	Lower	Upper
69	100		
41	54.7	44.6	67.0
39	31.2	27.0	40.4

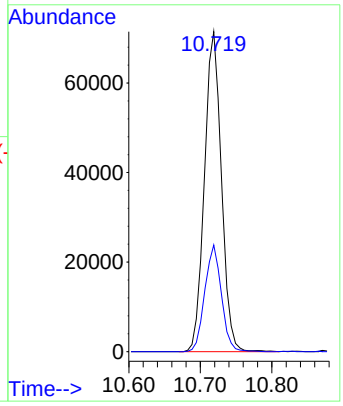




#57
1,3-Dichloropropane
Concen: 21.600 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 76 Resp: 11785

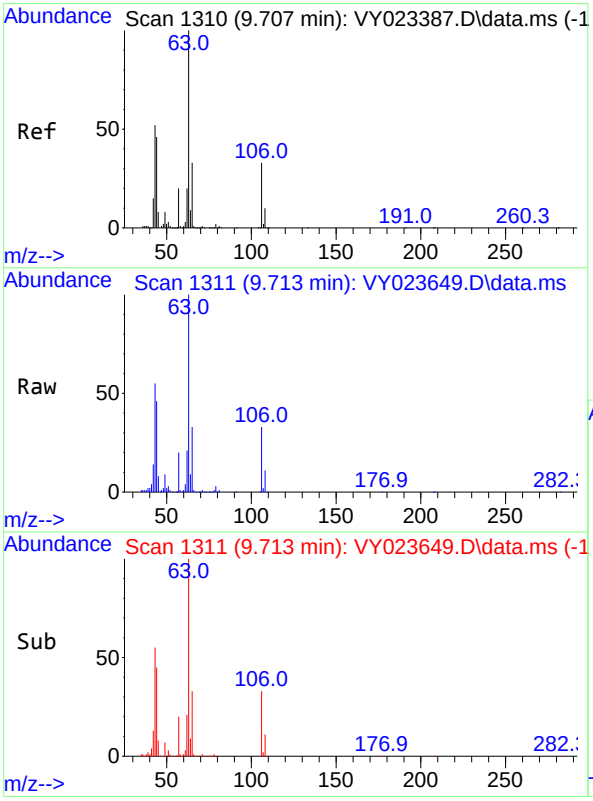
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

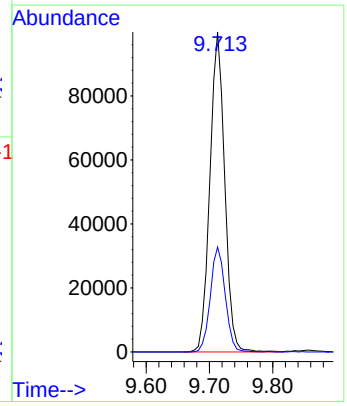
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

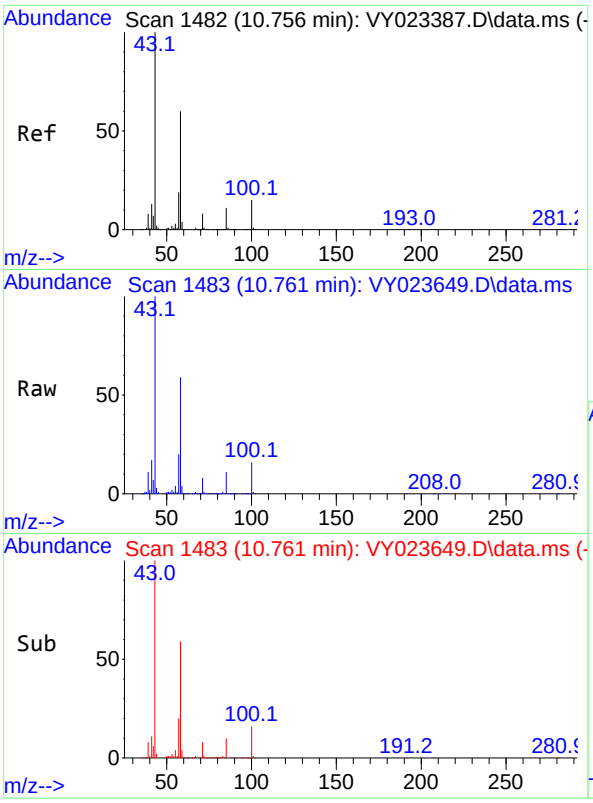


#58
2-Chloroethyl Vinyl ether
Concen: 91.539 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 63 Resp: 162881

Ion	Ratio	Lower	Upper
63	100		
106	32.9	26.6	39.8

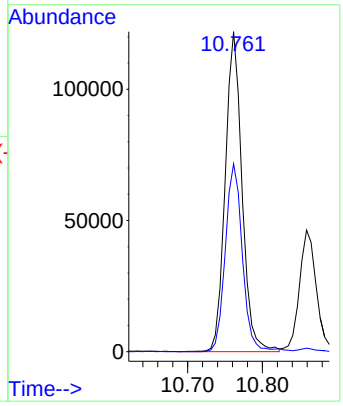




#59
2-Hexanone
Concen: 112.971 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 43 Resp: 19076

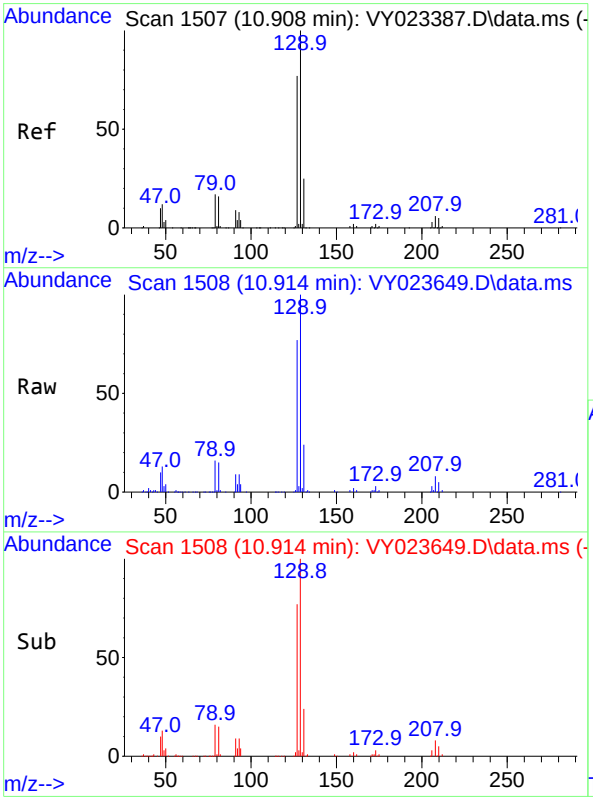
Ion	Ratio	Lower	Upper
43	100		
58	59.7	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

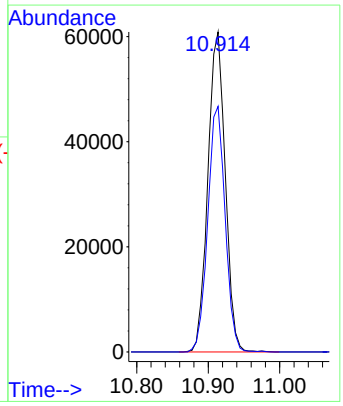
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

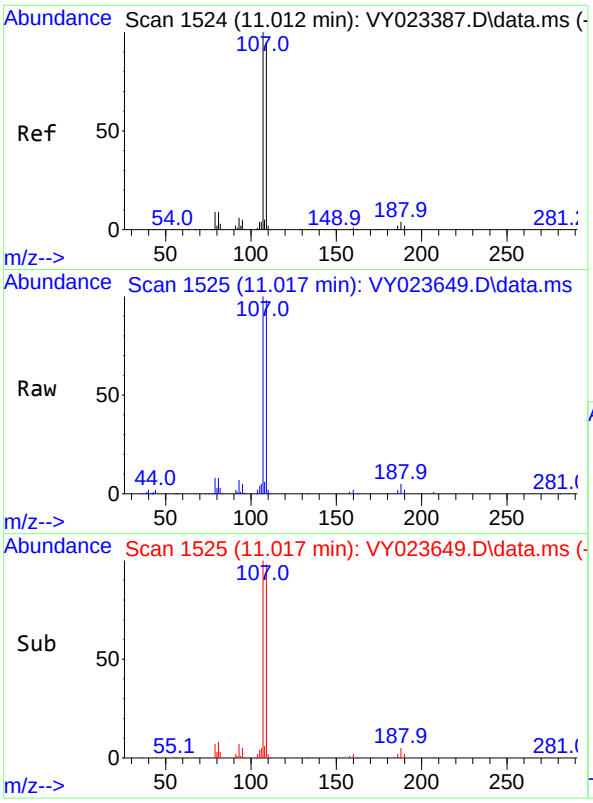


#60
Dibromochloromethane
Concen: 21.269 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:129 Resp: 102682

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.6	115.7

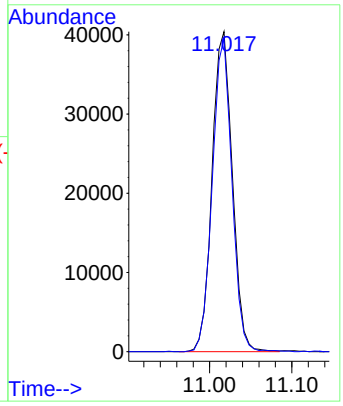




#61
1,2-Dibromoethane
Concen: 21.059 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:107 Resp: 6915

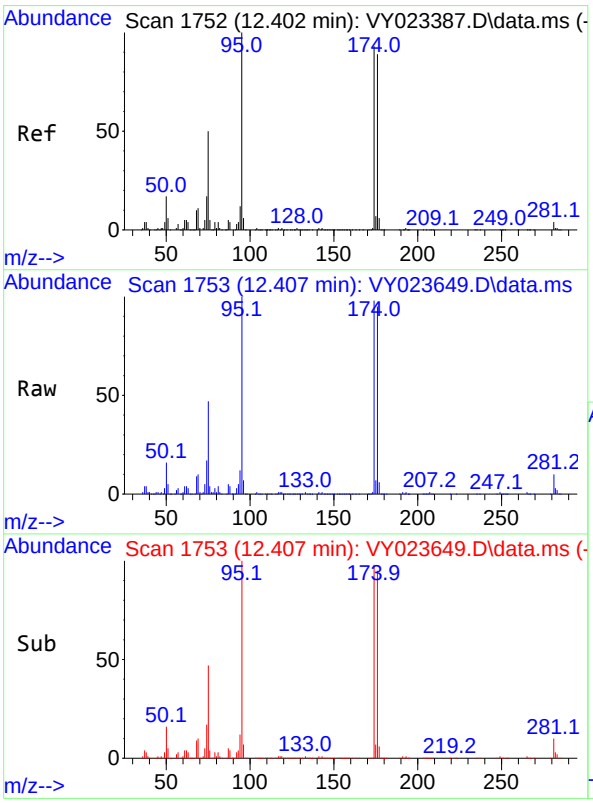
Ion	Ratio	Lower	Upper
107	100		
109	94.6	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

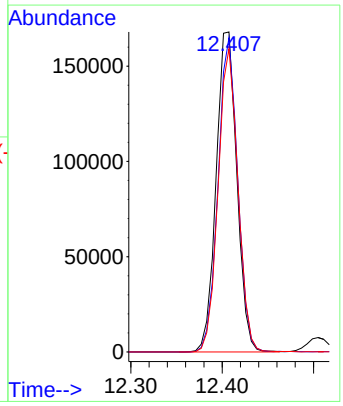
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

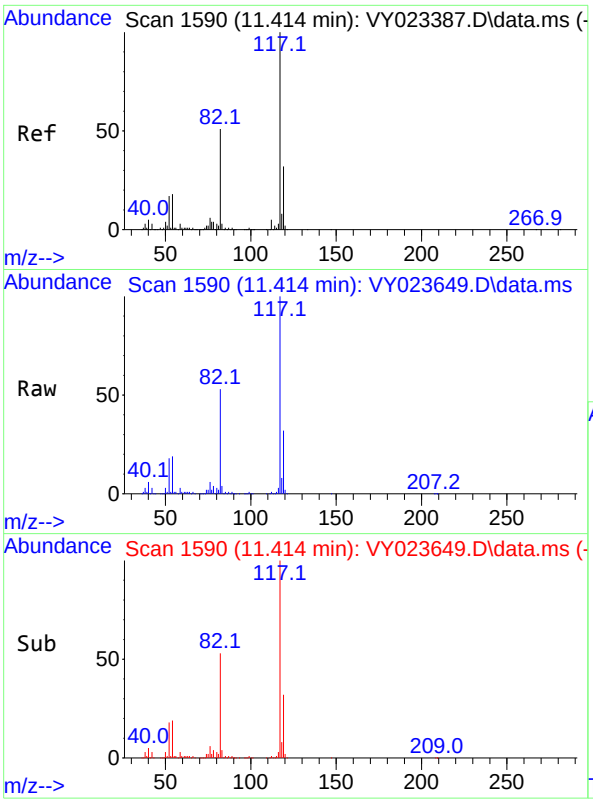


#62
4-Bromofluorobenzene
Concen: 49.285 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 95 Resp: 264976

Ion	Ratio	Lower	Upper
95	100		
174	93.4	0.0	192.8
176	90.7	0.0	187.6

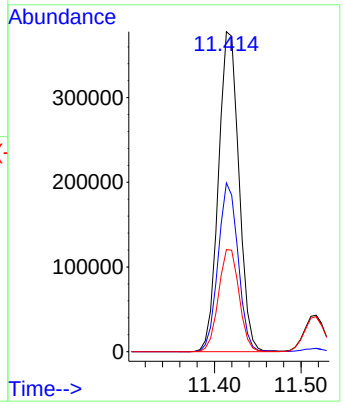




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:117 Resp: 61892

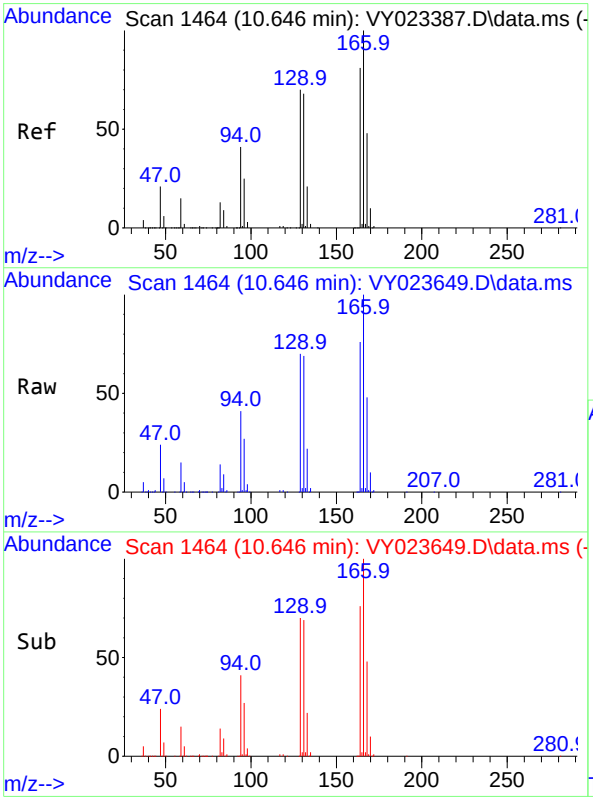
Ion	Ratio	Lower	Upper
117	100		
82	52.8	41.0	61.4
119	31.9	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

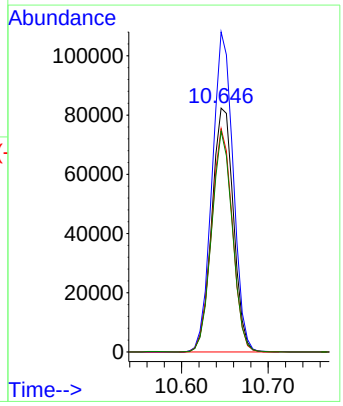
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

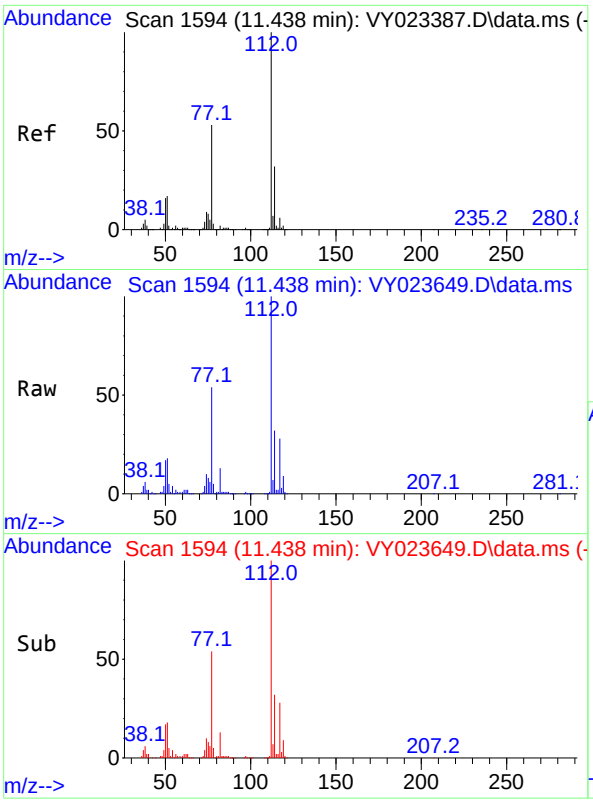


#64
Tetrachloroethene
Concen: 22.382 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:164 Resp: 143038

Ion	Ratio	Lower	Upper
164	100		
166	131.2	99.4	149.0
129	91.6	69.4	104.2
131	90.6	67.5	101.3

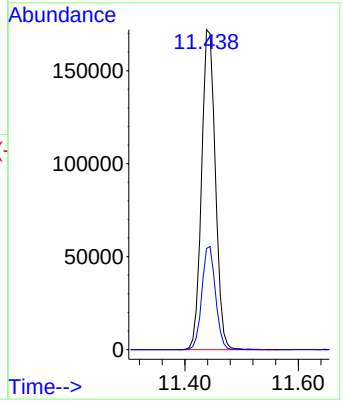




#65
Chlorobenzene
Concen: 21.566 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:112 Resp: 29030

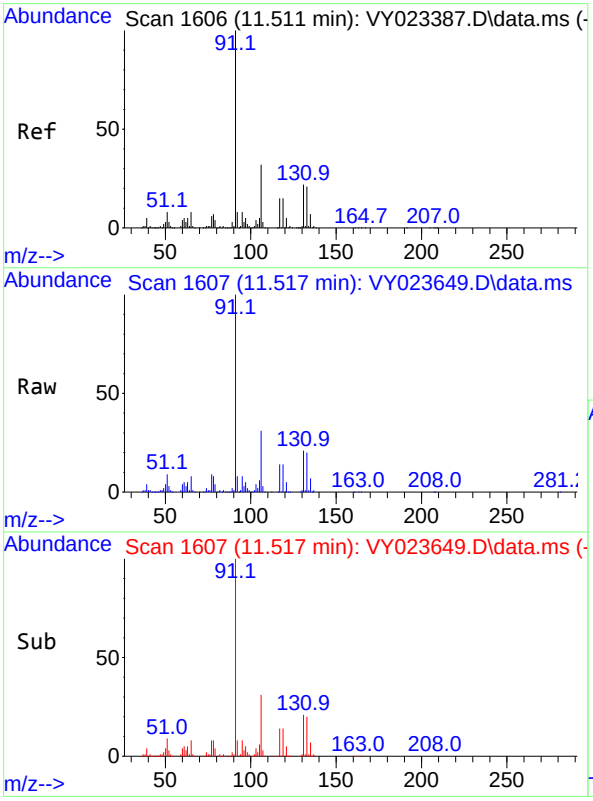
Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

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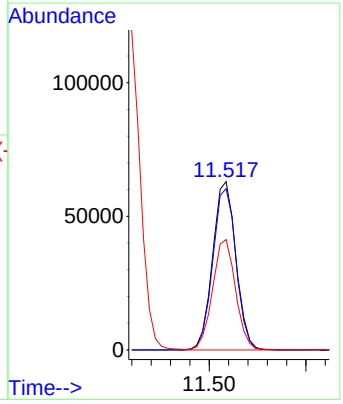
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

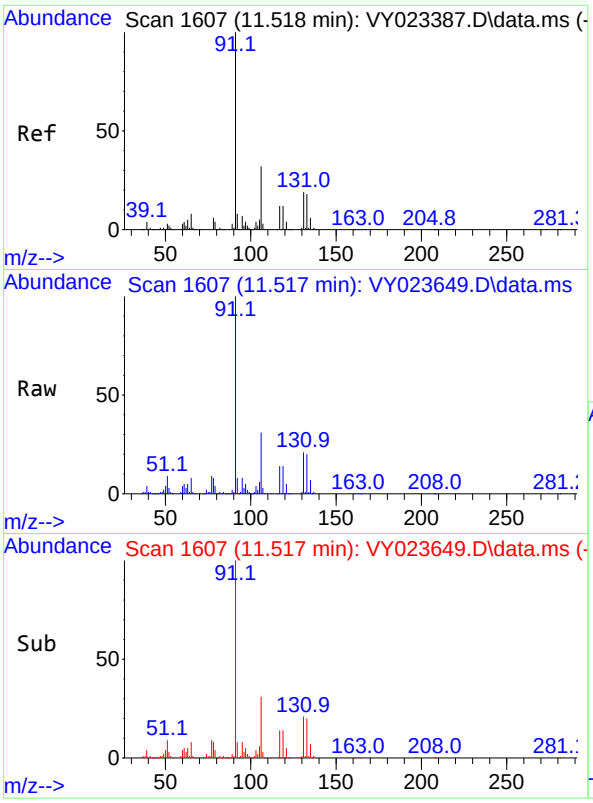


#66
1,1,1,2-Tetrachloroethane
Concen: 21.892 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:131 Resp: 105016

Ion	Ratio	Lower	Upper
131	100		
133	95.9	48.4	145.2
119	65.0	32.4	97.2





#67
Ethyl Benzene
Concen: 21.546 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

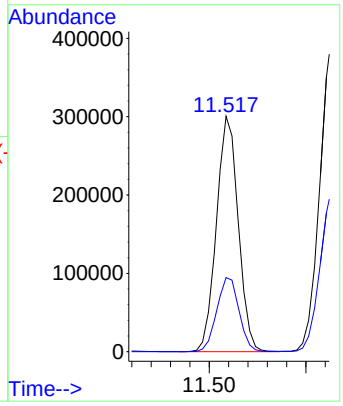
Tgt Ion: 91 Resp: 46948

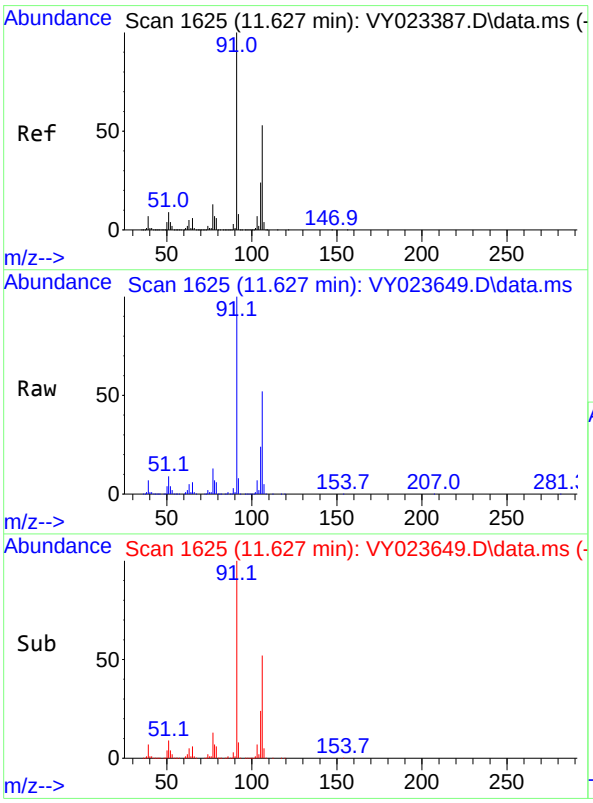
Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

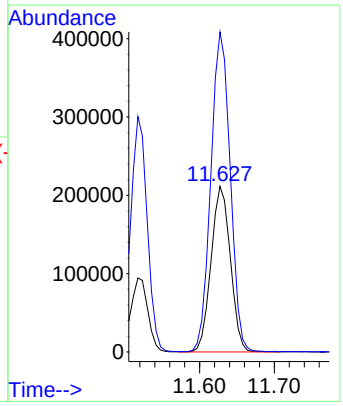


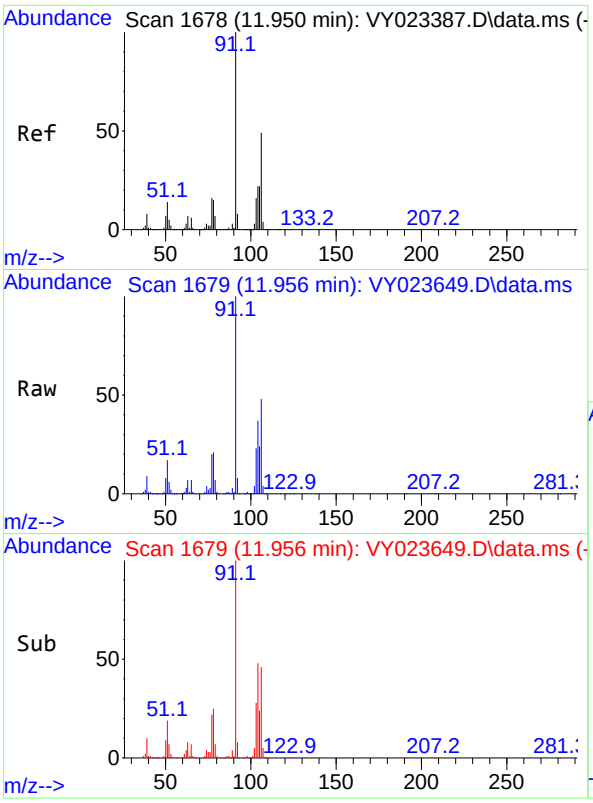


#68
m/p-Xylenes
Concen: 43.429 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:106 Resp: 379562

Ion	Ratio	Lower	Upper
106	100		
91	193.6	152.6	229.0





#69
o-Xylene
Concen: 20.981 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

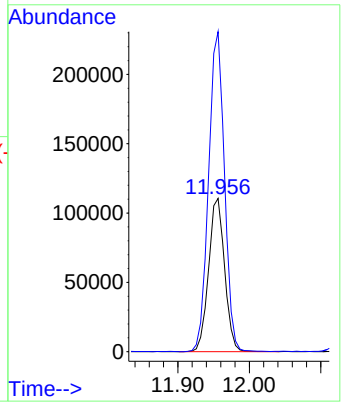
Tgt Ion:106 Resp: 17199

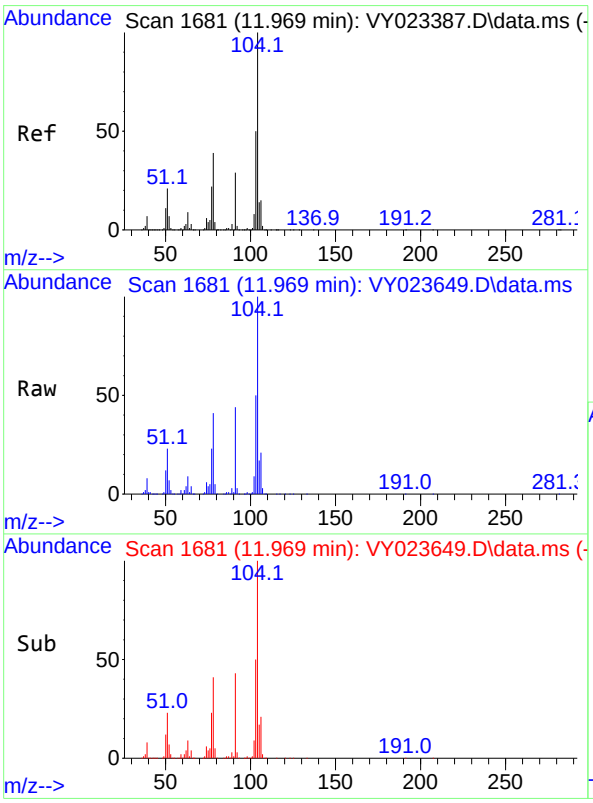
Ion	Ratio	Lower	Upper
106	100		
91	207.1	101.4	304.1

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

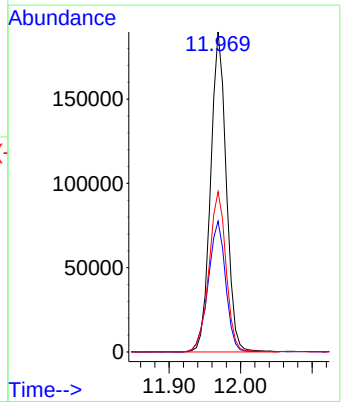


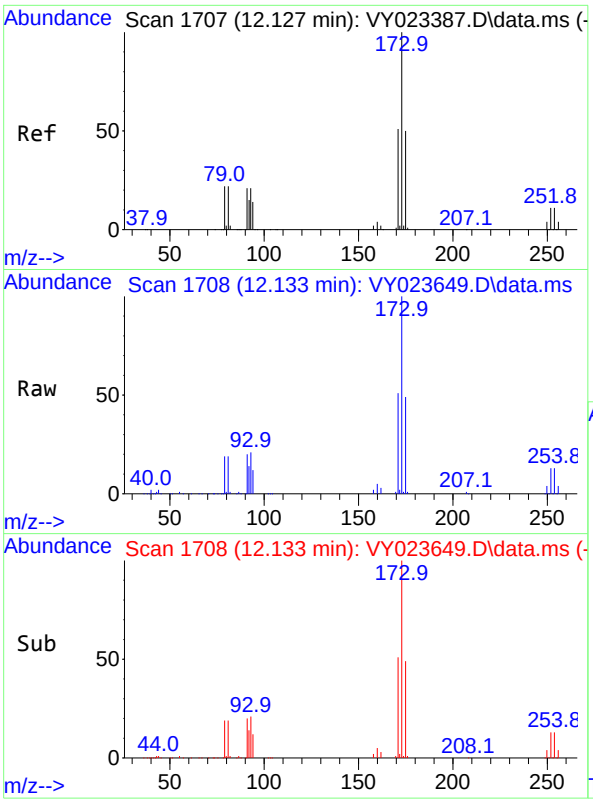


#70
Styrene
Concen: 21.452 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:104 Resp: 289194

Ion	Ratio	Lower	Upper
104	100		
78	45.4	36.1	54.1
103	54.5	43.2	64.8

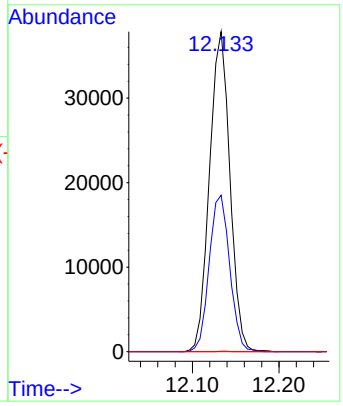




#71
Bromoform
Concen: 20.830 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

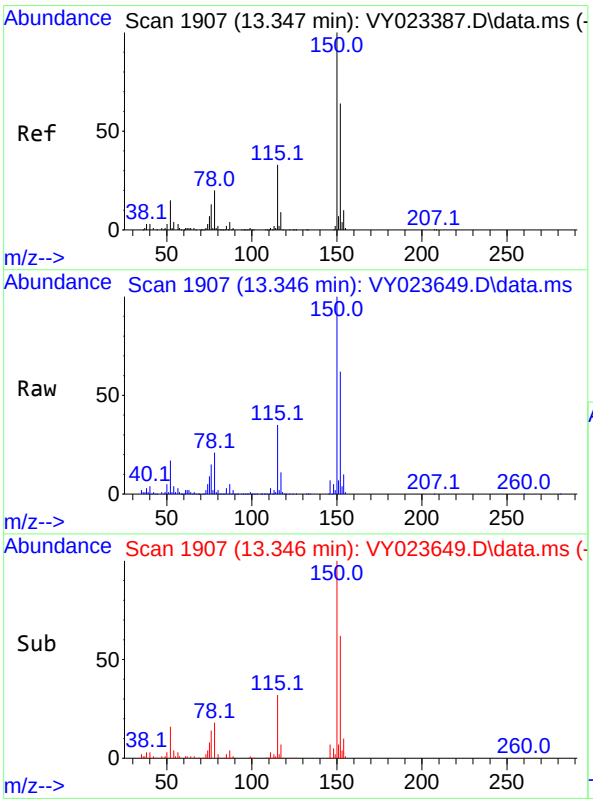
Tgt Ion:173 Resp: 6198

Ion	Ratio	Lower	Upper
173	100		
175	49.2	24.8	74.3
254	0.1	0.1	0.1#



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

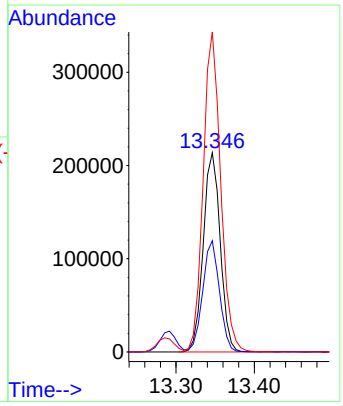
Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

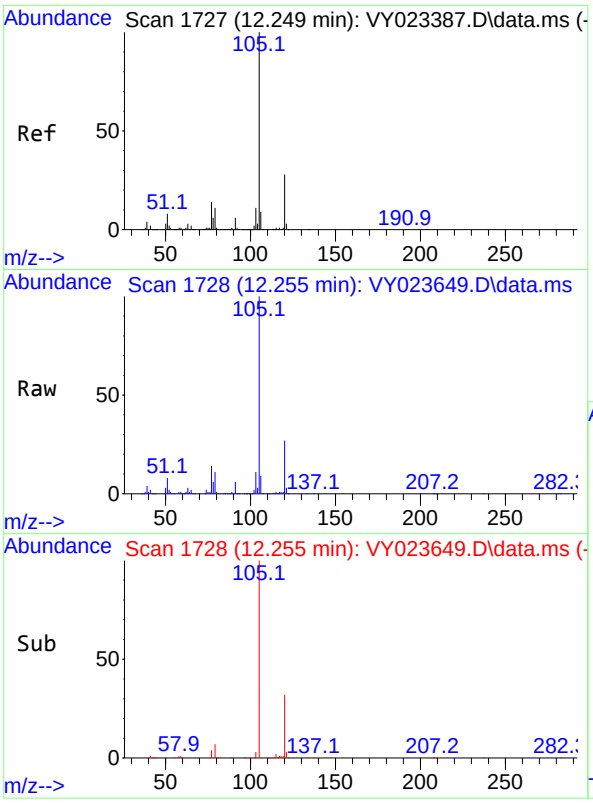


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:152 Resp: 321134

Ion	Ratio	Lower	Upper
152	100		
115	54.8	27.1	81.2
150	165.1	0.0	347.4

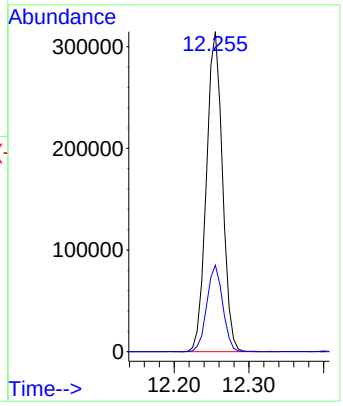




#73
Isopropylbenzene
Concen: 22.135 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:105 Resp: 46844

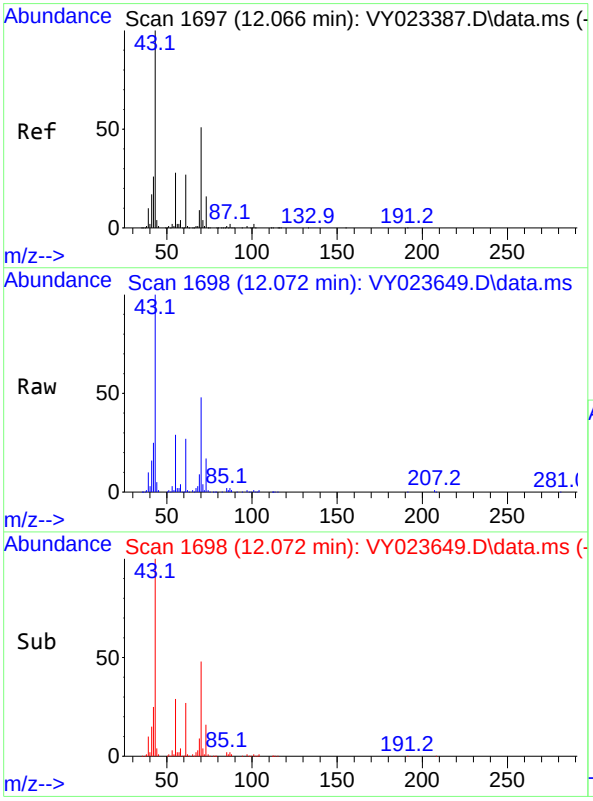
Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

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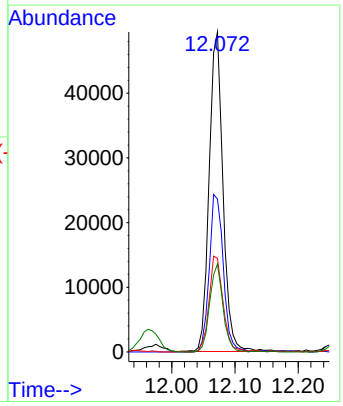
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

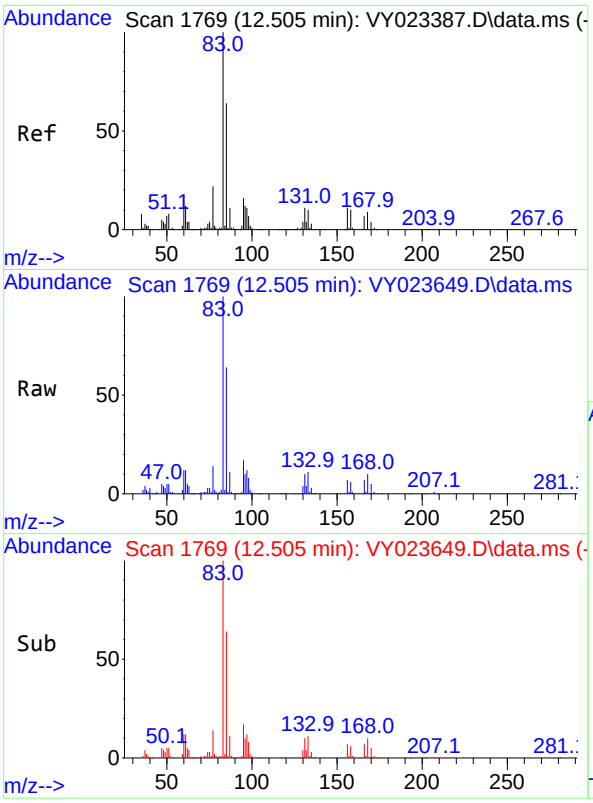


#74
N-amyl acetate
Concen: 19.749 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 43 Resp: 75069

Ion	Ratio	Lower	Upper
43	100		
70	50.2	41.1	61.7
55	30.6	23.0	34.6
61	26.5	21.4	32.2

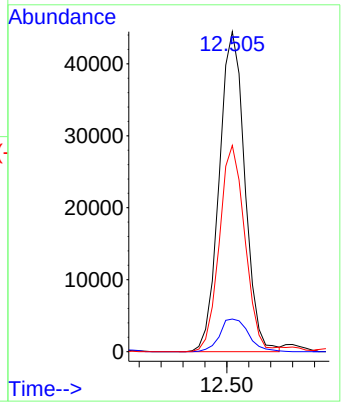




#75
1,1,2,2-Tetrachloroethane
Concen: 20.816 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 83 Resp: 7205

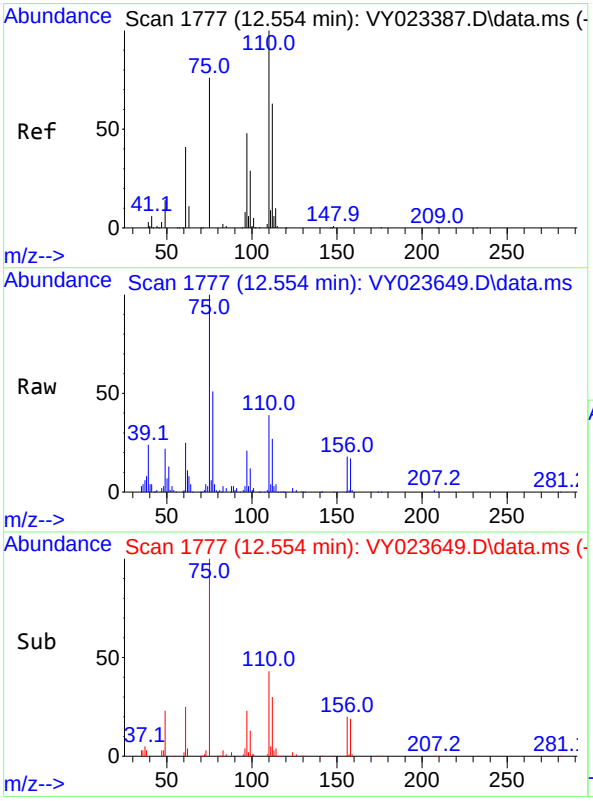
Ion	Ratio	Lower	Upper
83	100		
131	11.6	5.9	17.6
85	64.2	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
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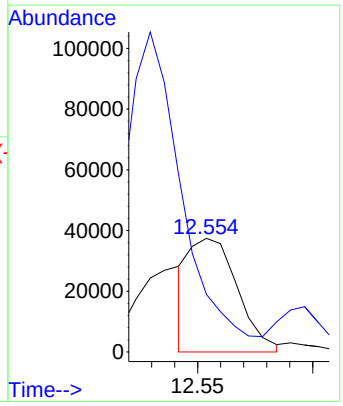
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

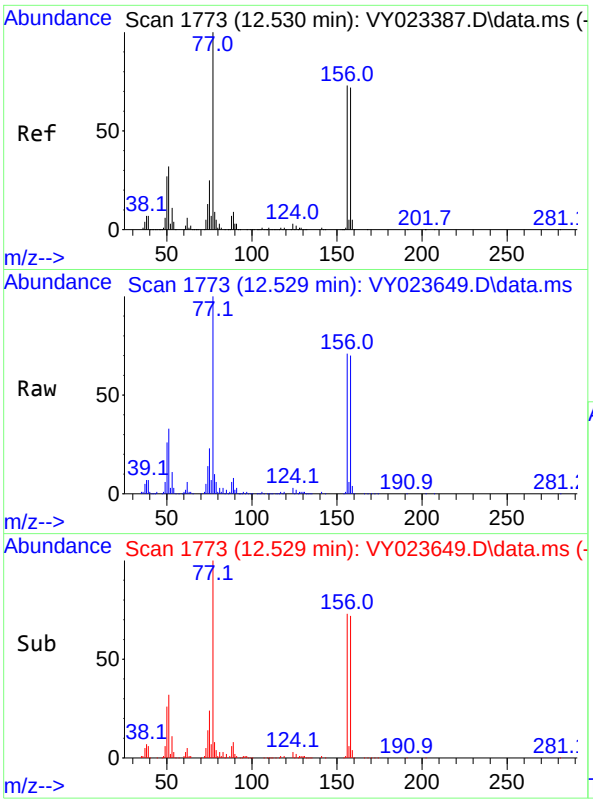


#76
1,2,3-Trichloropropane
Concen: 19.394 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 75 Resp: 54948

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

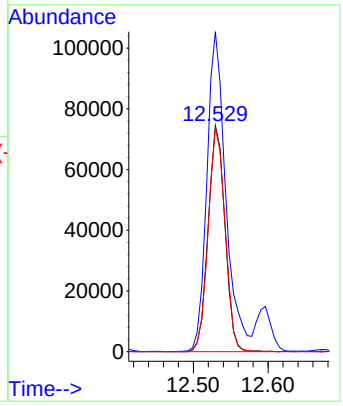




#77
Bromobenzene
Concen: 20.704 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:156 Resp: 11648

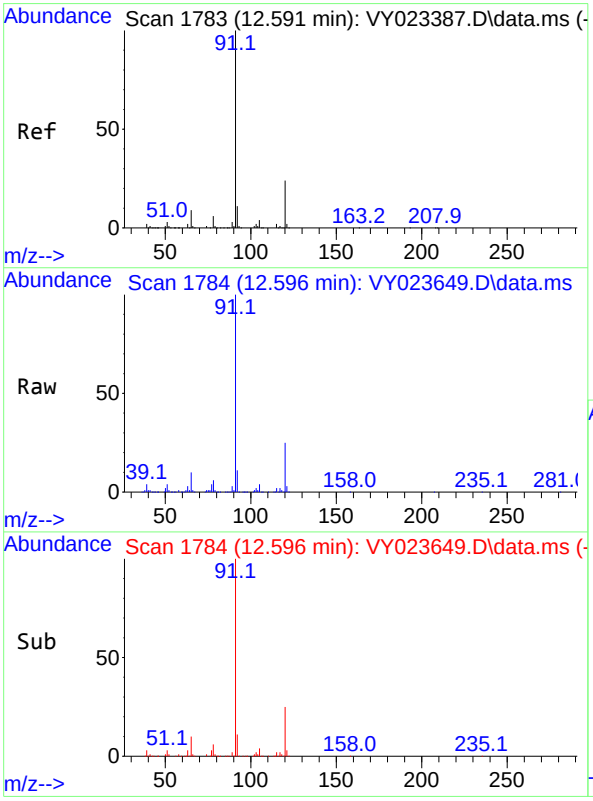
Ion	Ratio	Lower	Upper
156	100		
77	159.4	76.8	230.5
158	99.3	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
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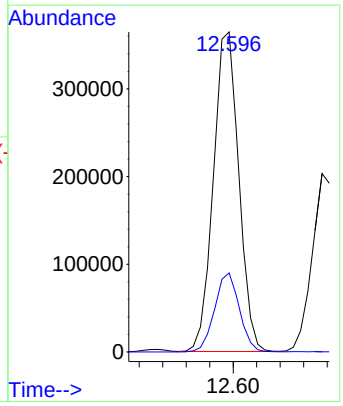
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

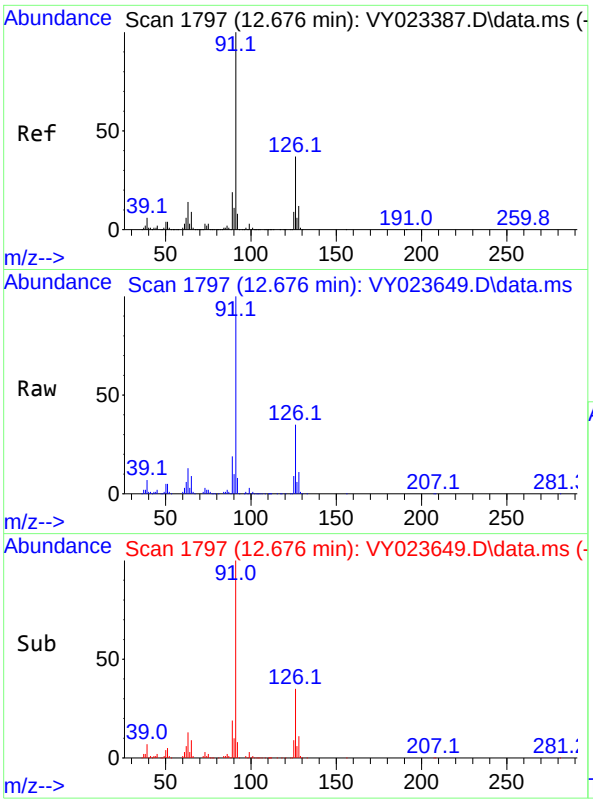


#78
n-propylbenzene
Concen: 22.351 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 91 Resp: 547377

Ion	Ratio	Lower	Upper
91	100		
120	24.1	12.3	36.8

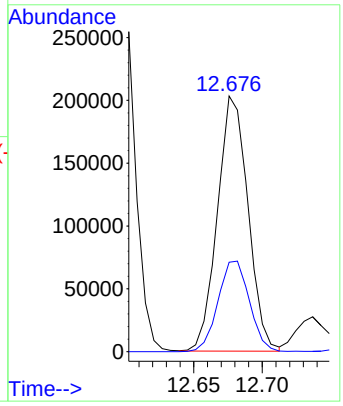




#79
2-Chlorotoluene
Concen: 21.990 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 91 Resp: 31536

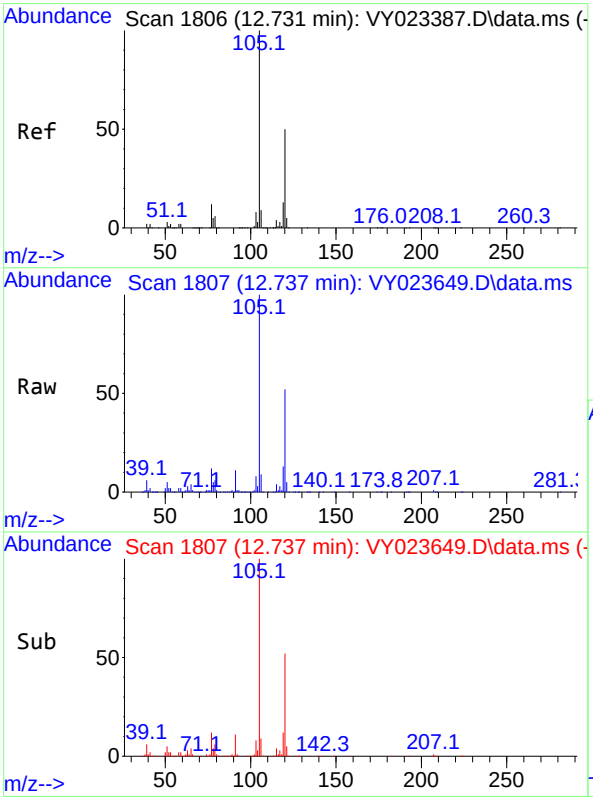
Ion	Ratio	Lower	Upper
91	100		
126	36.5	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
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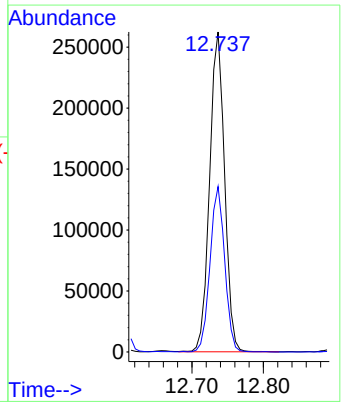
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

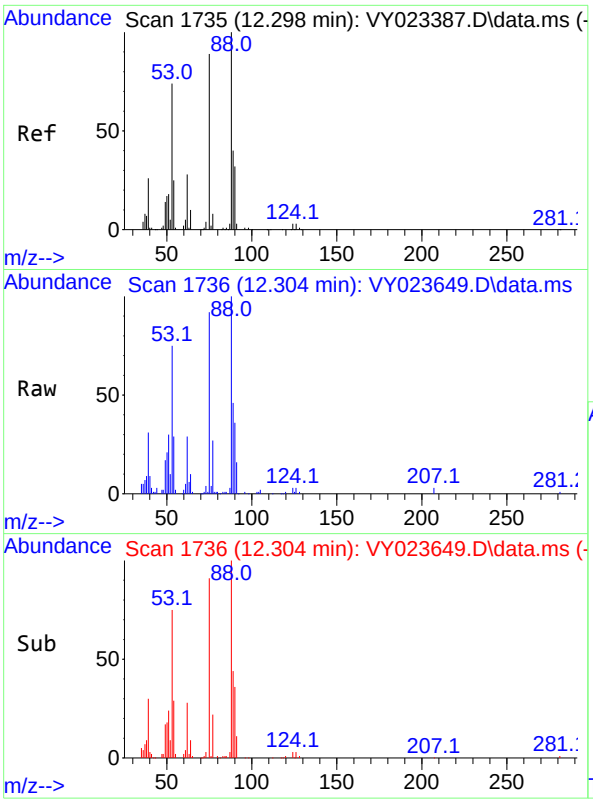


#80
1,3,5-Trimethylbenzene
Concen: 22.266 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:105 Resp: 380773

Ion	Ratio	Lower	Upper
105	100		
120	50.8	25.4	76.4

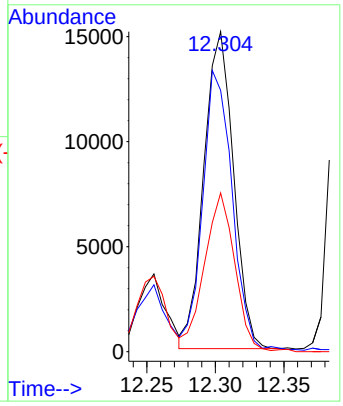




#81
trans-1,4-Dichloro-2-butene
Concen: 19.656 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 75 Resp: 2271

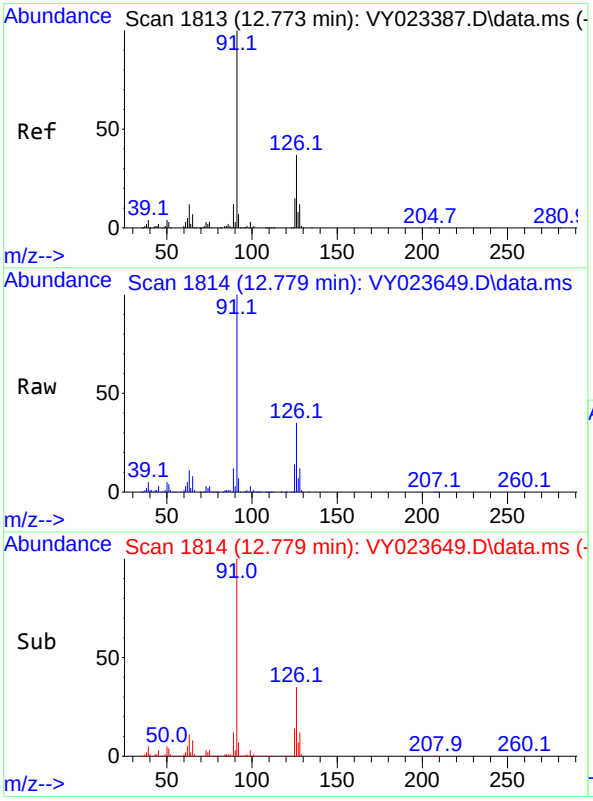
Ion	Ratio	Lower	Upper
75	100		
53	88.3	68.6	102.8
89	51.7	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

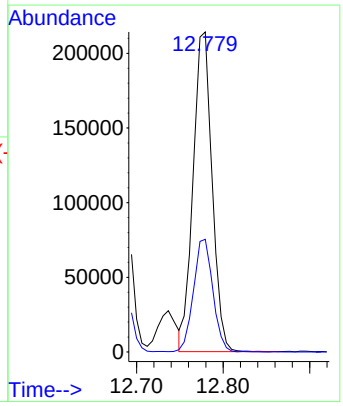
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

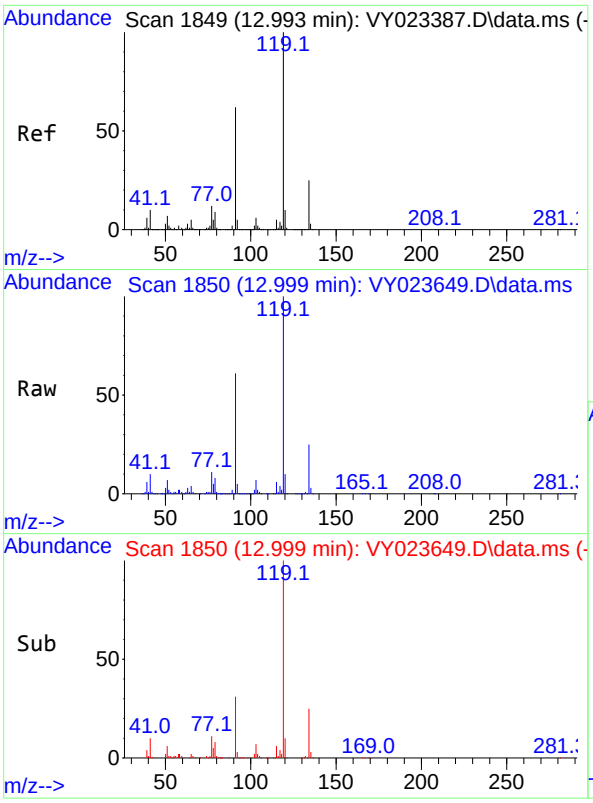


#82
4-Chlorotoluene
Concen: 22.051 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 91 Resp: 325689

Ion	Ratio	Lower	Upper
91	100		
126	36.2	18.4	55.4

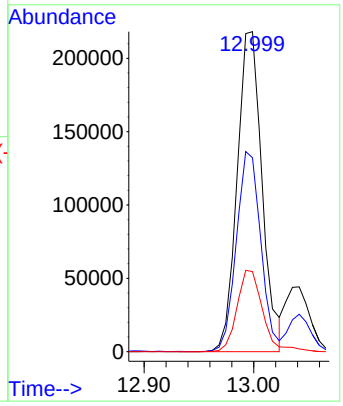




#83
tert-Butylbenzene
Concen: 21.827 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:119 Resp: 34465

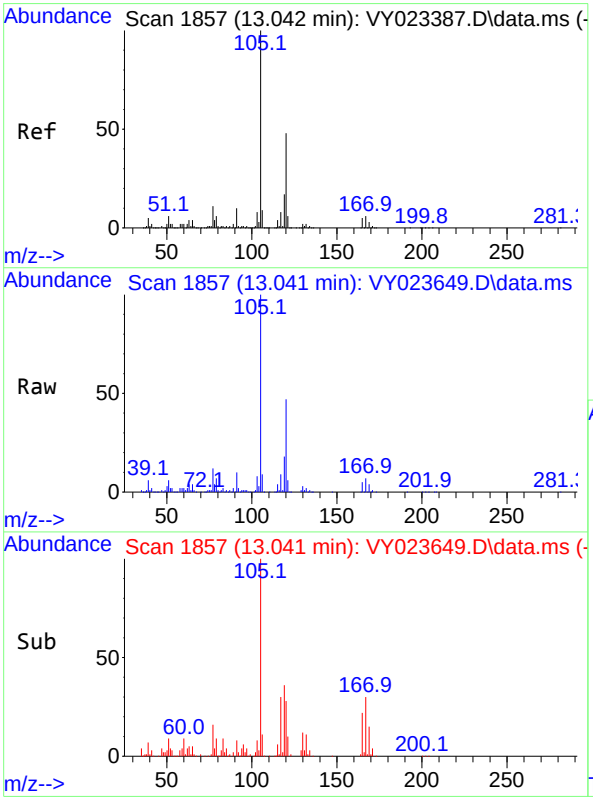
Ion	Ratio	Lower	Upper
119	100		
91	61.2	29.9	89.8
134	26.1	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

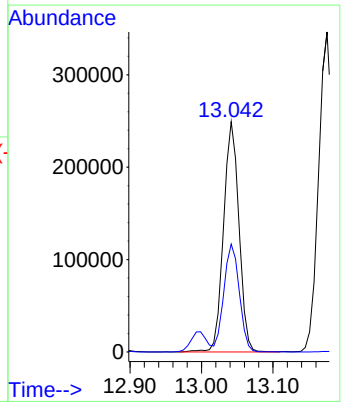
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

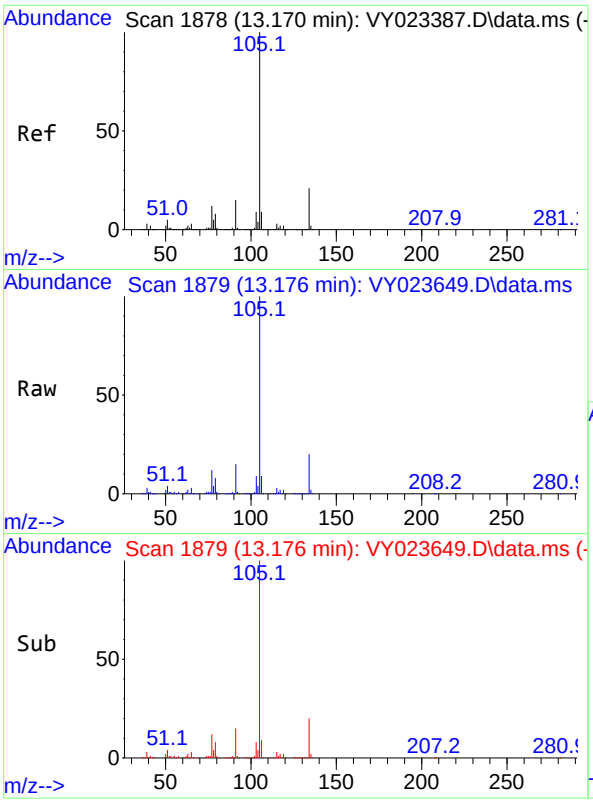


#84
1,2,4-Trimethylbenzene
Concen: 21.900 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:105 Resp: 373761

Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.8	71.2

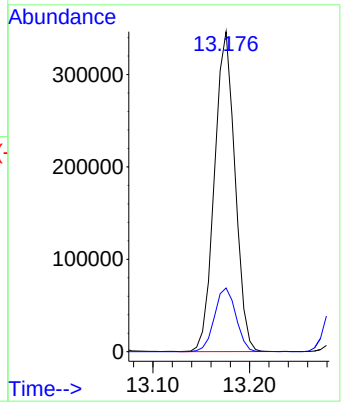




#85
sec-Butylbenzene
Concen: 22.524 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:105 Resp: 51017

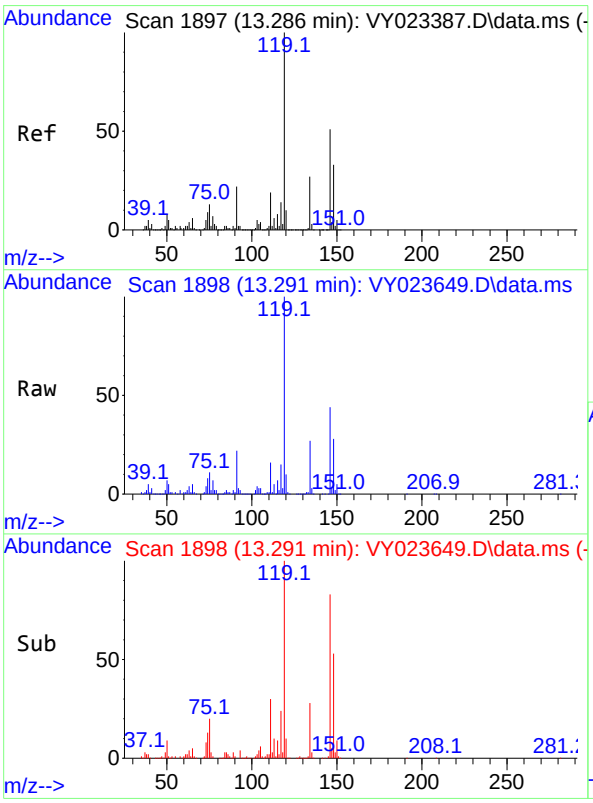
Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

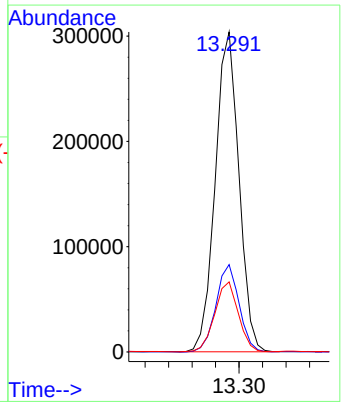
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

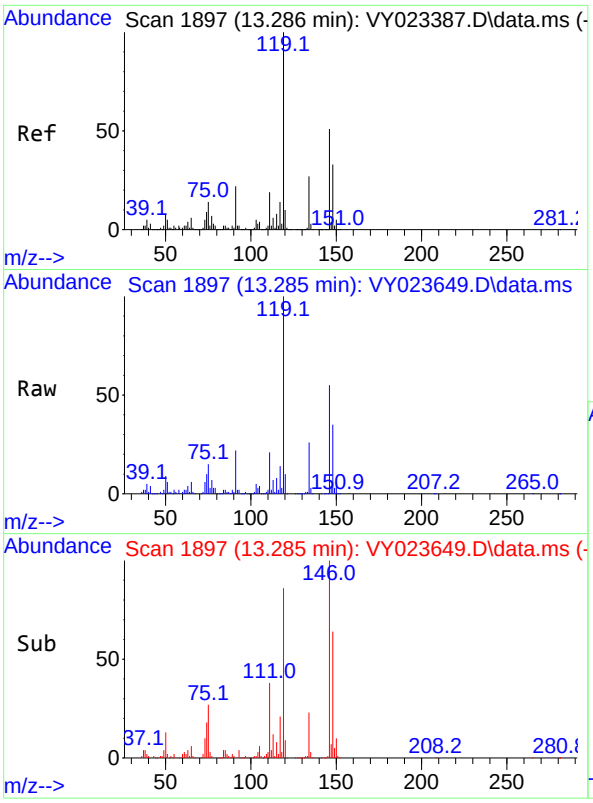


#86
p-Isopropyltoluene
Concen: 22.031 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:119 Resp: 424859

Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.6	40.7
91	21.8	10.9	32.9

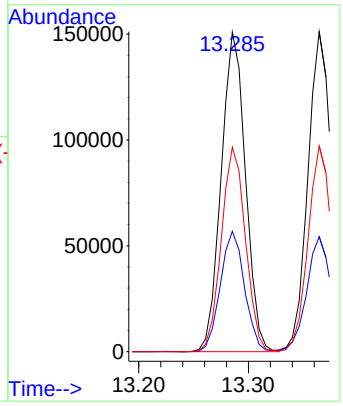




#87
1,3-Dichlorobenzene
Concen: 21.187 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:146 Resp: 23212

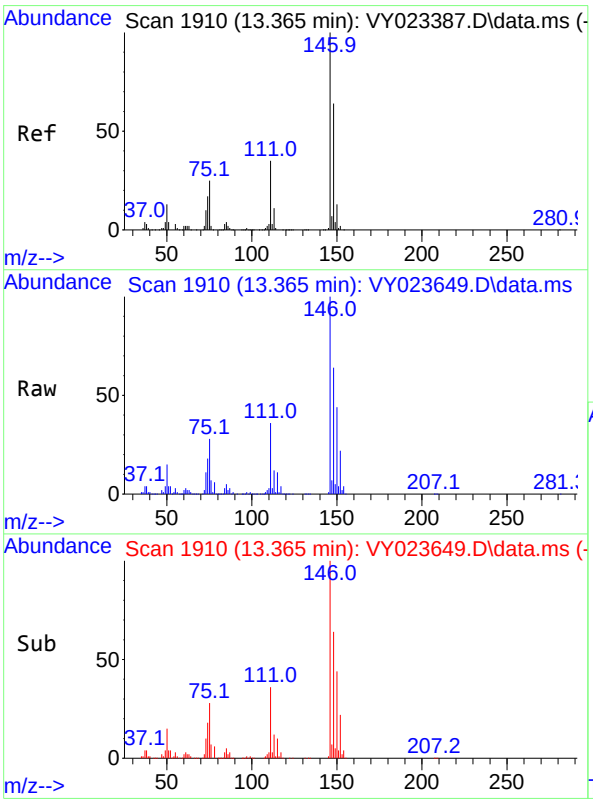
Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.7	56.1
148	63.7	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

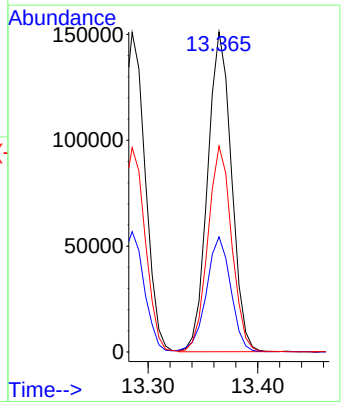
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

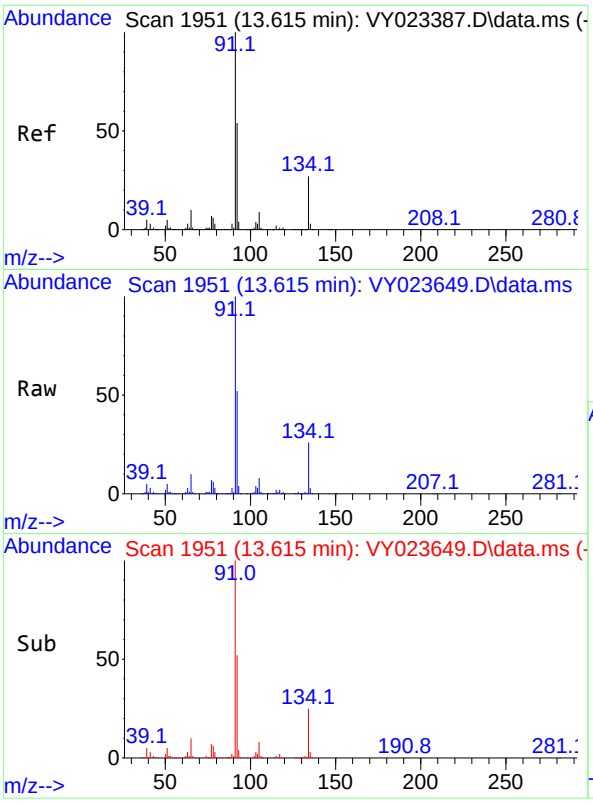


#88
1,4-Dichlorobenzene
Concen: 21.113 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:146 Resp: 228460

Ion	Ratio	Lower	Upper
146	100		
111	36.6	18.0	54.0
148	64.6	31.9	95.7

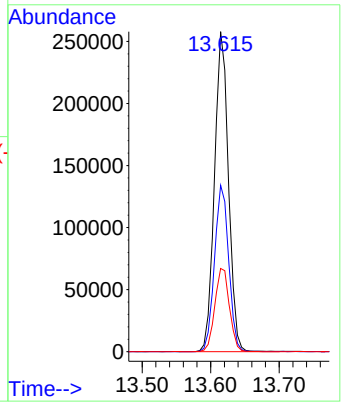




#89
n-Butylbenzene
Concen: 21.751 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 91 Resp: 36549

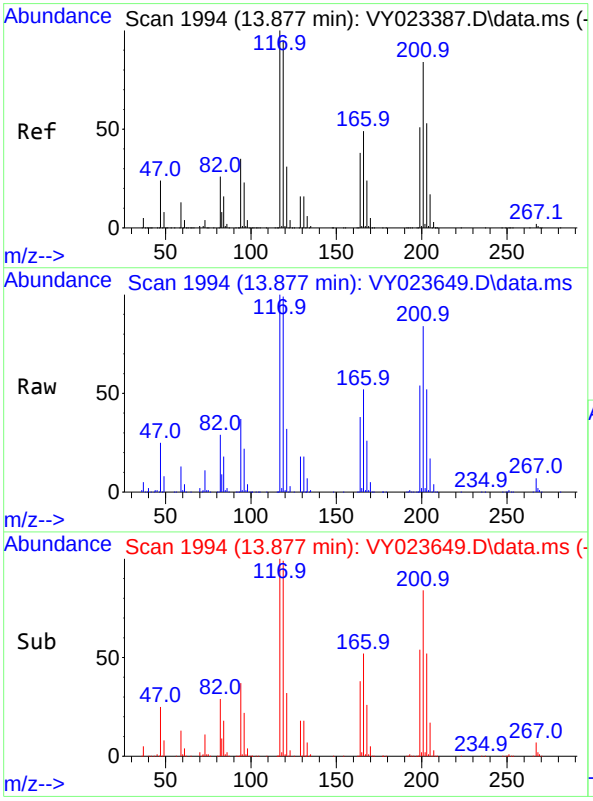
Ion	Ratio	Lower	Upper
91	100		
92	52.8	27.0	80.8
134	27.1	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

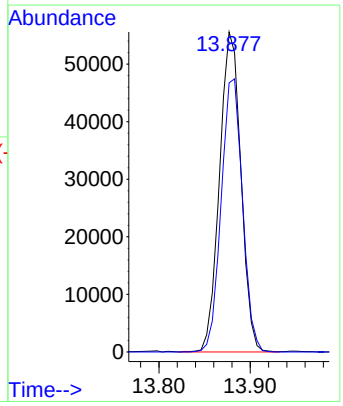
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

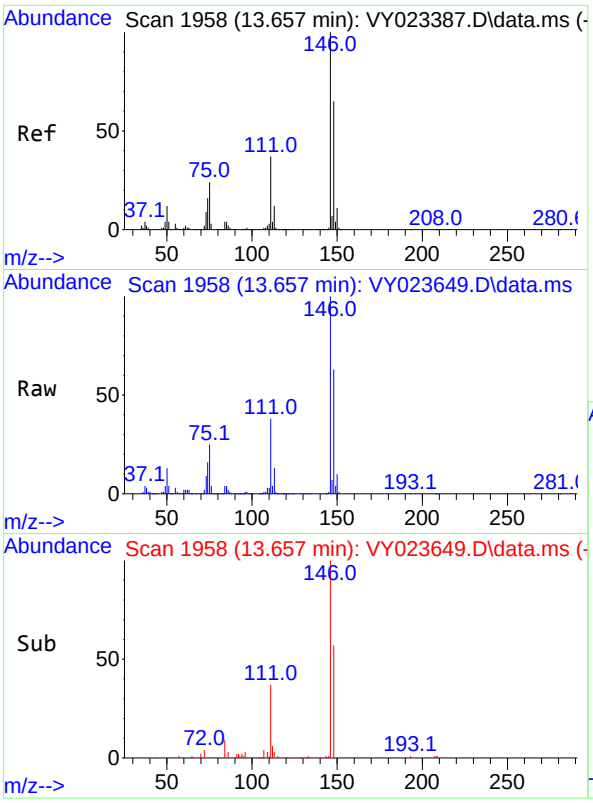


#90
Hexachloroethane
Concen: 21.841 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:117 Resp: 90593

Ion	Ratio	Lower	Upper
117	100		
201	84.9	43.8	131.4

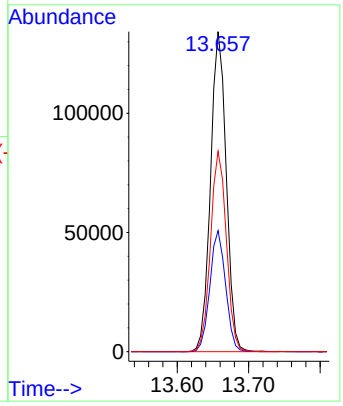




#91
1,2-Dichlorobenzene
Concen: 21.317 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:146 Resp: 20475

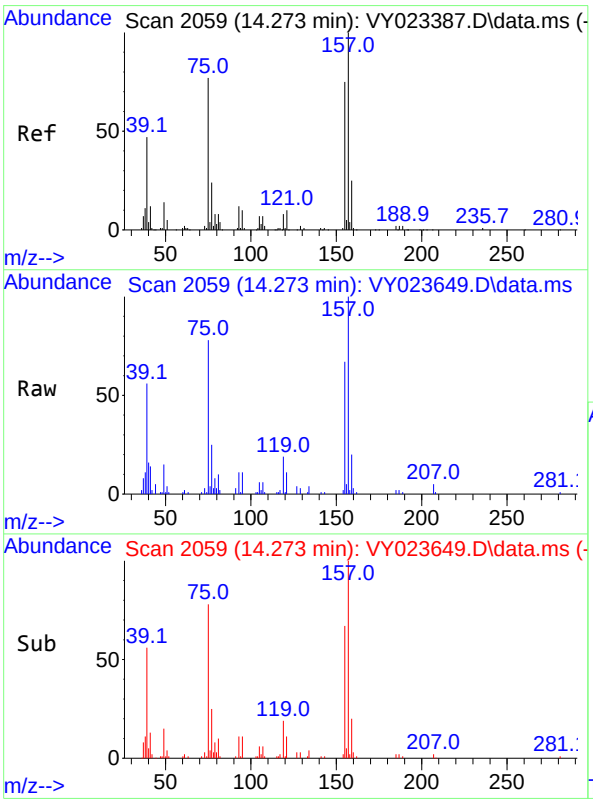
Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.0	57.0
148	63.4	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

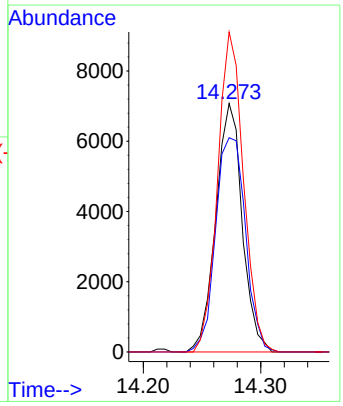
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

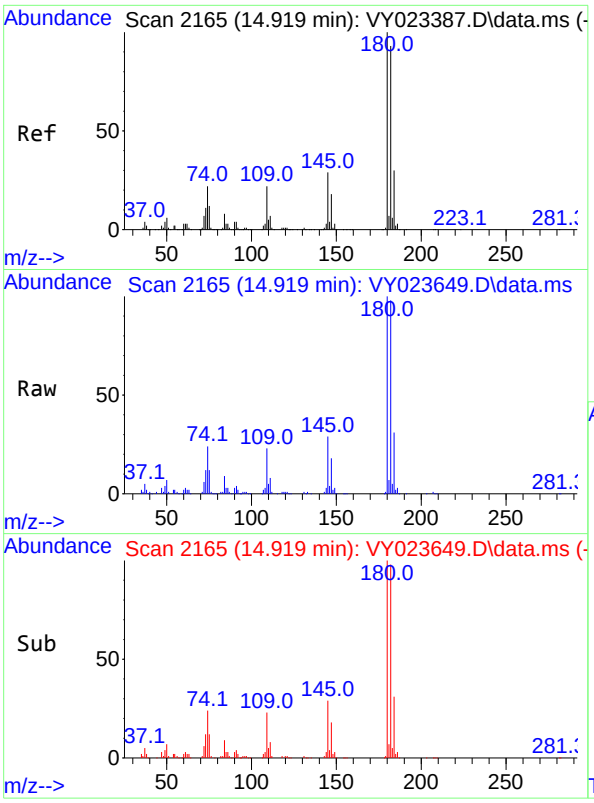


#92
1,2-Dibromo-3-Chloropropane
Concen: 19.463 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion: 75 Resp: 11054

Ion	Ratio	Lower	Upper
75	100		
155	97.4	50.0	150.0
157	126.0	63.8	191.5

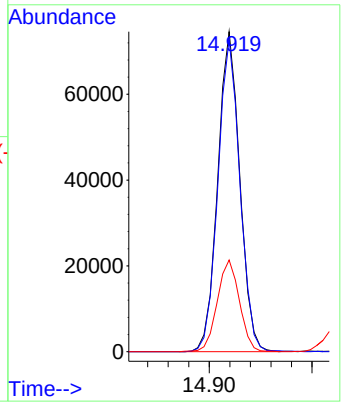




#93
1,2,4-Trichlorobenzene
Concen: 18.459 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:180 Resp: 11053

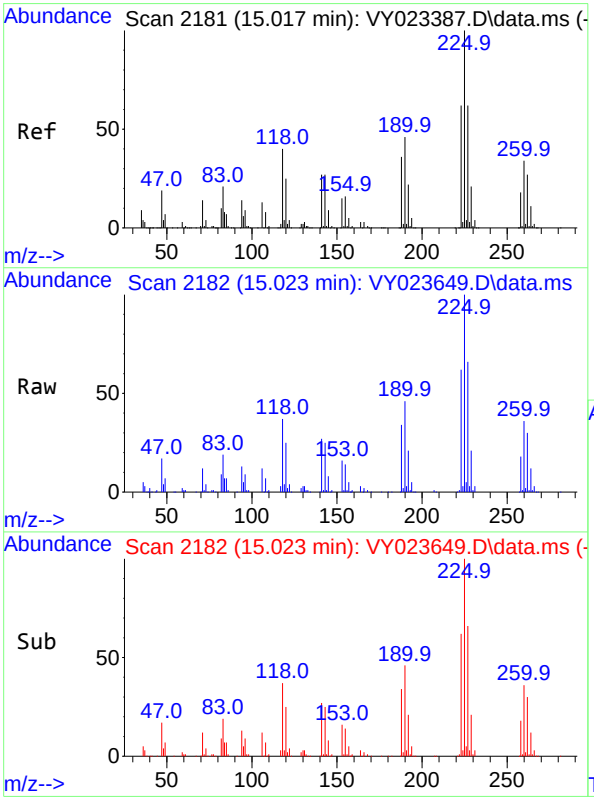
Ion	Ratio	Lower	Upper
180	100		
182	97.3	47.9	143.6
145	28.9	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

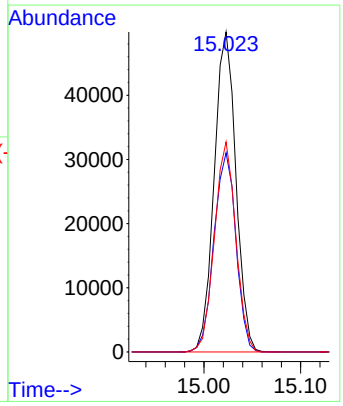
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

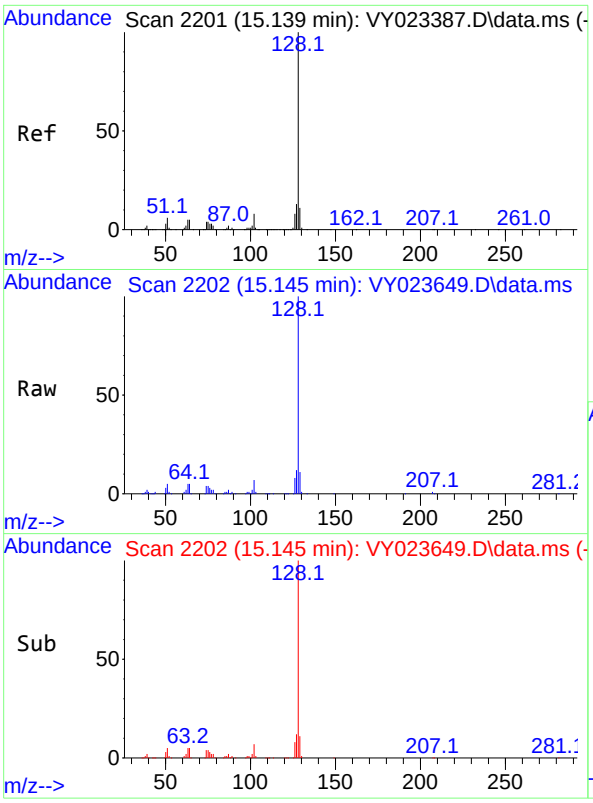


#94
Hexachlorobutadiene
Concen: 20.769 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:225 Resp: 77528

Ion	Ratio	Lower	Upper
225	100		
223	63.0	30.8	92.3
227	64.8	31.9	95.7

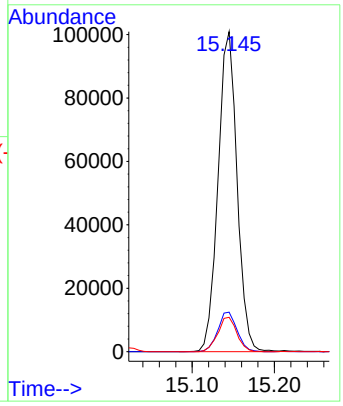




#95
Naphthalene
Concen: 16.969 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:128 Resp: 16181

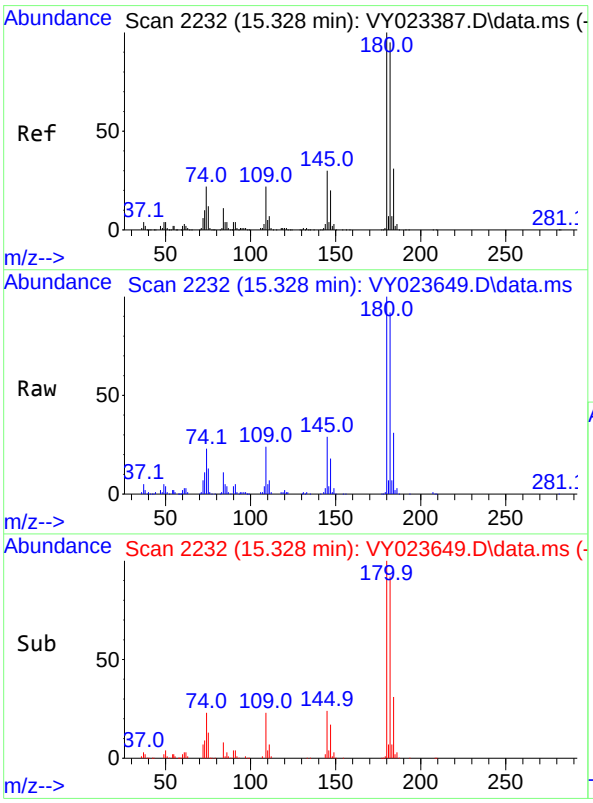
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.4	15.6
129	10.9	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBS01

Manual Integrations
APPROVED

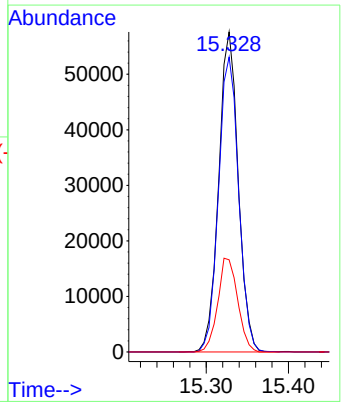
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.364 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023649.D
Acq: 03 Nov 2025 11:08

Tgt Ion:180 Resp: 95253

Ion	Ratio	Lower	Upper
180	100		
182	94.7	47.9	143.8
145	29.9	15.3	45.9



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

Report of Analysis

Client:	Weston Solutions, Inc.		Date Collected:		
Project:	RFP 905		Date Received:		
Client Sample ID:	VY1103SBSD01		SDG No.:	Q3447	
Lab Sample ID:	VY1103SBSD01		Matrix:	SOIL	
Analytical Method:	8260D	Level: LOW	% Solid:	100	
Sample Wt/Vol:	5 g	Final Vol: 5000 uL	Test:	VOC-TCLVOA-10	

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-71-8	Dichlorodifluoromethane	20.1		1	1.10	5.00	ug/Kg	11/03/25 11:30	VY110325
74-87-3	Chloromethane	19.2		1	1.10	5.00	ug/Kg	11/03/25 11:30	VY110325
75-01-4	Vinyl Chloride	19.7		1	0.79	5.00	ug/Kg	11/03/25 11:30	VY110325
74-83-9	Bromomethane	20.4		1	1.10	5.00	ug/Kg	11/03/25 11:30	VY110325
75-00-3	Chloroethane	21.1		1	1.30	5.00	ug/Kg	11/03/25 11:30	VY110325
75-69-4	Trichlorofluoromethane	21.4		1	1.20	5.00	ug/Kg	11/03/25 11:30	VY110325
76-13-1	1,1,2-Trichlorotrifluoroethane	23.0		1	1.10	5.00	ug/Kg	11/03/25 11:30	VY110325
75-35-4	1,1-Dichloroethene	22.1		1	1.00	5.00	ug/Kg	11/03/25 11:30	VY110325
67-64-1	Acetone	150		1	4.70	25.0	ug/Kg	11/03/25 11:30	VY110325
75-15-0	Carbon Disulfide	20.0		1	1.10	5.00	ug/Kg	11/03/25 11:30	VY110325
1634-04-4	Methyl tert-butyl Ether	23.0		1	0.73	5.00	ug/Kg	11/03/25 11:30	VY110325
79-20-9	Methyl Acetate	23.0		1	1.50	5.00	ug/Kg	11/03/25 11:30	VY110325
75-09-2	Methylene Chloride	20.8		1	3.50	10.0	ug/Kg	11/03/25 11:30	VY110325
156-60-5	trans-1,2-Dichloroethene	22.4		1	0.86	5.00	ug/Kg	11/03/25 11:30	VY110325
75-34-3	1,1-Dichloroethane	23.5		1	0.80	5.00	ug/Kg	11/03/25 11:30	VY110325
110-82-7	Cyclohexane	21.3		1	0.79	5.00	ug/Kg	11/03/25 11:30	VY110325
78-93-3	2-Butanone	140		1	6.50	25.0	ug/Kg	11/03/25 11:30	VY110325
56-23-5	Carbon Tetrachloride	22.7		1	0.97	5.00	ug/Kg	11/03/25 11:30	VY110325
156-59-2	cis-1,2-Dichloroethene	23.0		1	0.75	5.00	ug/Kg	11/03/25 11:30	VY110325
74-97-5	Bromochloromethane	23.1		1	1.20	5.00	ug/Kg	11/03/25 11:30	VY110325
67-66-3	Chloroform	23.6		1	0.84	5.00	ug/Kg	11/03/25 11:30	VY110325
71-55-6	1,1,1-Trichloroethane	23.4		1	0.93	5.00	ug/Kg	11/03/25 11:30	VY110325
108-87-2	Methylcyclohexane	21.3		1	0.91	5.00	ug/Kg	11/03/25 11:30	VY110325
71-43-2	Benzene	23.0		1	0.79	5.00	ug/Kg	11/03/25 11:30	VY110325
107-06-2	1,2-Dichloroethane	22.9		1	0.79	5.00	ug/Kg	11/03/25 11:30	VY110325
79-01-6	Trichloroethene	22.3		1	0.81	5.00	ug/Kg	11/03/25 11:30	VY110325
78-87-5	1,2-Dichloropropane	23.7		1	0.91	5.00	ug/Kg	11/03/25 11:30	VY110325
75-27-4	Bromodichloromethane	23.6		1	0.78	5.00	ug/Kg	11/03/25 11:30	VY110325
108-10-1	4-Methyl-2-Pentanone	120		1	3.60	25.0	ug/Kg	11/03/25 11:30	VY110325
108-88-3	Toluene	23.3		1	0.78	5.00	ug/Kg	11/03/25 11:30	VY110325
10061-02-6	t-1,3-Dichloropropene	22.5		1	0.65	5.00	ug/Kg	11/03/25 11:30	VY110325
10061-01-5	cis-1,3-Dichloropropene	22.9		1	0.62	5.00	ug/Kg	11/03/25 11:30	VY110325
79-00-5	1,1,2-Trichloroethane	23.7		1	0.92	5.00	ug/Kg	11/03/25 11:30	VY110325
591-78-6	2-Hexanone	130		1	3.70	25.0	ug/Kg	11/03/25 11:30	VY110325
124-48-1	Dibromochloromethane	23.3		1	0.87	5.00	ug/Kg	11/03/25 11:30	VY110325
106-93-4	1,2-Dibromoethane	22.8		1	0.88	5.00	ug/Kg	11/03/25 11:30	VY110325
127-18-4	Tetrachloroethene	23.6		1	1.10	5.00	ug/Kg	11/03/25 11:30	VY110325
108-90-7	Chlorobenzene	22.8		1	0.91	5.00	ug/Kg	11/03/25 11:30	VY110325
100-41-4	Ethyl Benzene	23.1		1	0.67	5.00	ug/Kg	11/03/25 11:30	VY110325
179601-23-1	m/p-Xylenes	46.3		1	1.20	10.0	ug/Kg	11/03/25 11:30	VY110325
95-47-6	o-Xylene	22.9		1	0.82	5.00	ug/Kg	11/03/25 11:30	VY110325
100-42-5	Styrene	23.0		1	0.71	5.00	ug/Kg	11/03/25 11:30	VY110325
75-25-2	Bromoform	22.9		1	0.86	5.00	ug/Kg	11/03/25 11:30	VY110325

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	VY1103SBSD01			SDG No.:	Q3447
Lab Sample ID:	VY1103SBSD01			Matrix:	SOIL
Analytical Method:	8260D	Level:	LOW	% Solid:	100
Sample Wt/Vol:	5 g	Final Vol:	5000 uL	Test:	VOC-TCLVOA-10

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
98-82-8	Isopropylbenzene	23.4		1	0.78	5.00	ug/Kg	11/03/25 11:30	VY110325
79-34-5	1,1,2,2-Tetrachloroethane	23.3		1	1.20	5.00	ug/Kg	11/03/25 11:30	VY110325
541-73-1	1,3-Dichlorobenzene	22.7		1	1.70	5.00	ug/Kg	11/03/25 11:30	VY110325
106-46-7	1,4-Dichlorobenzene	22.4		1	1.60	5.00	ug/Kg	11/03/25 11:30	VY110325
95-50-1	1,2-Dichlorobenzene	22.9		1	1.50	5.00	ug/Kg	11/03/25 11:30	VY110325
96-12-8	1,2-Dibromo-3-Chloropropane	22.5		1	1.80	5.00	ug/Kg	11/03/25 11:30	VY110325
120-82-1	1,2,4-Trichlorobenzene	21.4		1	3.00	5.00	ug/Kg	11/03/25 11:30	VY110325
87-61-6	1,2,3-Trichlorobenzene	21.5		1	3.20	5.00	ug/Kg	11/03/25 11:30	VY110325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	49.8			63 - 155	100%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.3			70 - 134	101%	SPK: 50		
2037-26-5	Toluene-d8	48.6			74 - 123	97%	SPK: 50		
460-00-4	4-Bromofluorobenzene	48.7			17 - 146	97%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	459000							
540-36-3	1,4-Difluorobenzene	683000							
3114-55-4	Chlorobenzene-d5	593000							
3855-82-1	1,4-Dichlorobenzene-d4	309000							

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_Y\Data\VY110325\
Data File : VY023650.D
Acq On : 03 Nov 2025 11:30
Operator : SY/MD
Sample : VY1103SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 01:30:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	459130	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	683030	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	592788	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	309437	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	191336	49.836	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.680%			
35) Dibromofluoromethane	7.634	113	210911	50.254	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.500%			
50) Toluene-d8	10.109	98	759194	48.574	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.140%			
62) 4-Bromofluorobenzene	12.401	95	251534	48.746	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 97.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	66573	20.145	ug/l	96
3) Chloromethane	2.074	50	86215	19.151	ug/l	99
4) Vinyl Chloride	2.208	62	115549	19.706	ug/l	98
5) Bromomethane	2.592	94	100552	20.434	ug/l	99
6) Chloroethane	2.732	64	84170	21.058	ug/l	98
7) Trichlorofluoromethane	3.055	101	174618	21.447	ug/l	100
8) Diethyl Ether	3.458	74	47347	22.255	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	96983	22.955	ug/l	99
10) Methyl Iodide	4.007	142	103239	21.950	ug/l	99
11) Tert butyl alcohol	4.860	59	32219	112.803	ug/l	95
12) 1,1-Dichloroethene	3.787	96	90711	22.149	ug/l	97
13) Acrolein	3.653	56	16753	41.510	ug/l	99
14) Allyl chloride	4.384	41	115948	23.230	ug/l	97
15) Acrylonitrile	5.061	53	97749	120.060	ug/l	99
16) Acetone	3.866	43	139824	152.977	ug/l	98
17) Carbon Disulfide	4.104	76	234583	20.012	ug/l	99
18) Methyl Acetate	4.384	43	55192	23.019	ug/l	97
19) Methyl tert-butyl Ether	5.122	73	226422	23.003	ug/l	97
20) Methylene Chloride	4.616	84	102895	20.819	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	101055	22.411	ug/l	99
22) Diisopropyl ether	6.018	45	262775	23.801	ug/l	96
23) Vinyl Acetate	5.963	43	696322	116.519	ug/l	99
24) 1,1-Dichloroethane	5.921	63	171681	23.475	ug/l	100
25) 2-Butanone	6.896	43	151324	135.610	ug/l	99
26) 2,2-Dichloropropane	6.890	77	157411	23.457	ug/l	98
27) cis-1,2-Dichloroethene	6.896	96	119895	23.019	ug/l	99
28) Bromochloromethane	7.250	49	63123	23.120	ug/l	97
29) Tetrahydrofuran	7.262	42	72830	115.096	ug/l	100
30) Chloroform	7.421	83	189380	23.569	ug/l	99
31) Cyclohexane	7.701	56	136216	21.328	ug/l	95
32) 1,1,1-Trichloroethane	7.622	97	171195	23.445	ug/l	99
36) 1,1-Dichloropropene	7.835	75	127376	22.925	ug/l	98
37) Ethyl Acetate	6.988	43	53038	24.095	ug/l	98
38) Carbon Tetrachloride	7.823	117	153159	22.733	ug/l	99
39) Methylcyclohexane	9.109	83	154307	21.330	ug/l	97
40) Benzene	8.085	78	404284	22.976	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
Data File : VY023650.D
Acq On : 03 Nov 2025 11:30
Operator : SY/MD
Sample : VY1103SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 01:30:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.225	41	24381	20.479 ug/l		89
42) 1,2-Dichloroethane	8.158	62	103842	22.882 ug/l		100
43) Isopropyl Acetate	8.201	43	99803	22.738 ug/l		99
44) Trichloroethene	8.865	130	114668	22.265 ug/l		97
45) 1,2-Dichloropropane	9.140	63	91947	23.658 ug/l		96
46) Dibromomethane	9.231	93	57655	23.460 ug/l		97
47) Bromodichloromethane	9.426	83	145935	23.578 ug/l		99
48) Methyl methacrylate	9.219	41	45260	21.949 ug/l		96
49) 1,4-Dioxane	9.237	88	12083	424.053 ug/l		92
51) 4-Methyl-2-Pentanone	9.999	43	268852	118.552 ug/l		99
52) Toluene	10.170	92	266066	23.288 ug/l		99
53) t-1,3-Dichloropropene	10.396	75	121198	22.519 ug/l		96
54) cis-1,3-Dichloropropene	9.859	75	145667	22.933 ug/l		98
55) 1,1,2-Trichloroethane	10.572	97	78354	23.709 ug/l		96
56) Ethyl methacrylate	10.438	69	87167	22.865 ug/l		98
57) 1,3-Dichloropropane	10.719	76	124842	23.839 ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	186872	109.425 ug/l		99
59) 2-Hexanone	10.761	43	210341	129.786 ug/l		99
60) Dibromochloromethane	10.914	129	108144	23.340 ug/l		98
61) 1,2-Dibromoethane	11.017	107	71883	22.807 ug/l		99
64) Tetrachloroethene	10.646	164	144266	23.570 ug/l		97
65) Chlorobenzene	11.438	112	294169	22.816 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.517	131	107880	23.481 ug/l		99
67) Ethyl Benzene	11.517	91	481347	23.064 ug/l		99
68) m/p-Xylenes	11.627	106	387351	46.274 ug/l		98
69) o-Xylene	11.950	106	180089	22.937 ug/l		100
70) Styrene	11.968	104	297438	23.037 ug/l		99
71) Bromoform	12.133	173	65318	22.919 ug/l	#	99
73) Isopropylbenzene	12.255	105	476429	23.363 ug/l		99
74) N-amyl acetate	12.072	43	81675	22.299 ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.505	83	77624	23.274 ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	59193m	21.682 ug/l		
77) Bromobenzene	12.529	156	122721	22.637 ug/l		98
78) n-propylbenzene	12.596	91	557326	23.617 ug/l		99
79) 2-Chlorotoluene	12.676	91	322303	23.323 ug/l		98
80) 1,3,5-Trimethylbenzene	12.737	105	388450	23.573 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	25383	22.799 ug/l		100
82) 4-Chlorotoluene	12.773	91	331916	23.322 ug/l		99
83) tert-Butylbenzene	12.993	119	355532	23.368 ug/l		100
84) 1,2,4-Trimethylbenzene	13.041	105	386466	23.500 ug/l		99
85) sec-Butylbenzene	13.176	105	509251	23.333 ug/l		99
86) p-Isopropyltoluene	13.291	119	429151	23.094 ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	239280	22.666 ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	233078	22.354 ug/l		98
89) n-Butylbenzene	13.615	91	365453	22.570 ug/l		99
90) Hexachloroethane	13.877	117	91176	22.812 ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	211893	22.894 ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	12340	22.549 ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	123508	21.405 ug/l		100
94) Hexachlorobutadiene	15.023	225	78767	21.899 ug/l		98
95) Naphthalene	15.145	128	191387	20.829 ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	107330	21.475 ug/l		99

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Sample : VY1103SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 04 01:30:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations APPROVED

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Supervised By :Mahesh Dadoda 11/04/2025

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

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

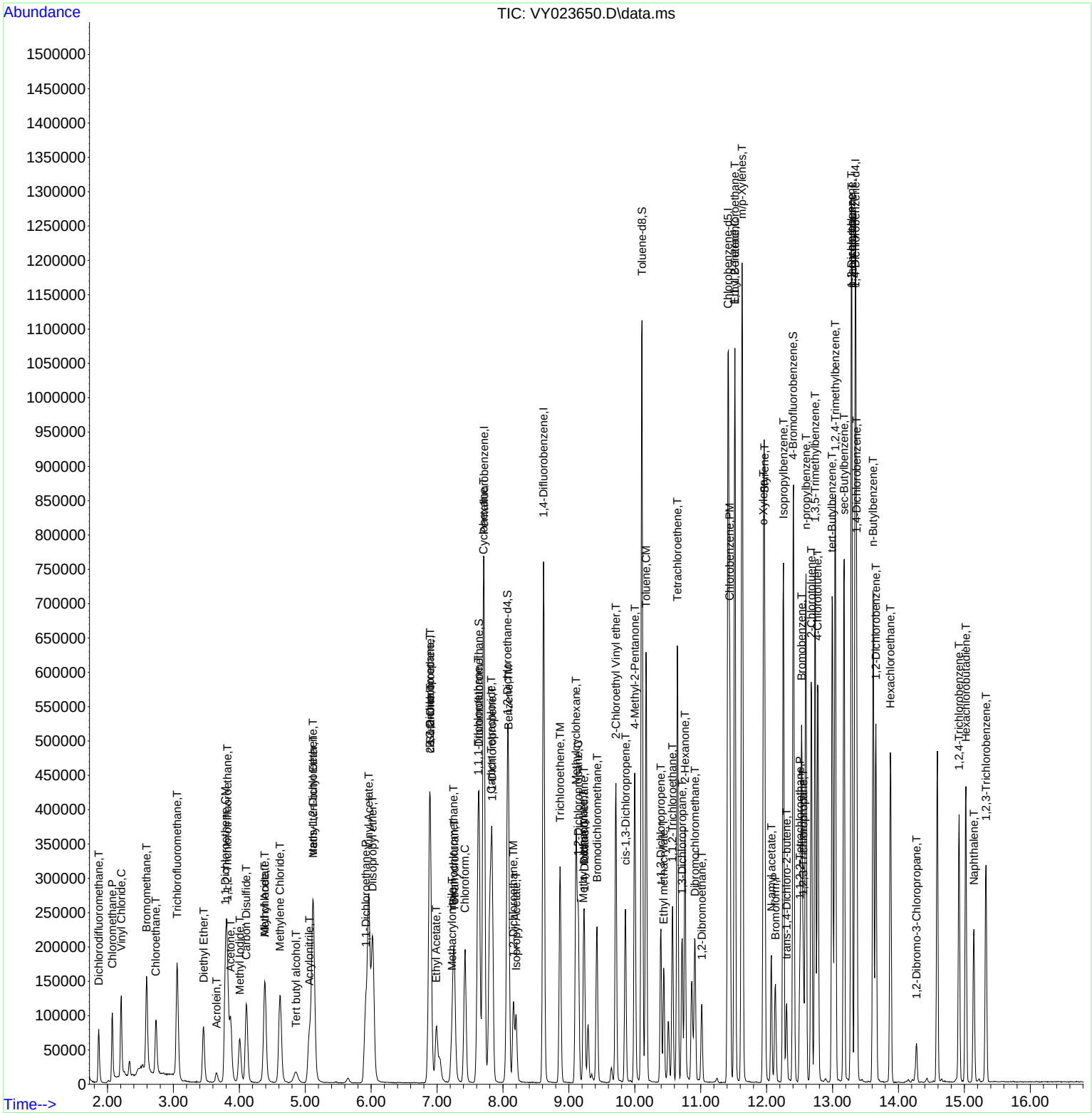
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Data File : VY023650.D
Acq On : 03 Nov 2025 11:30
Operator : SY/MD
Sample : VY1103SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

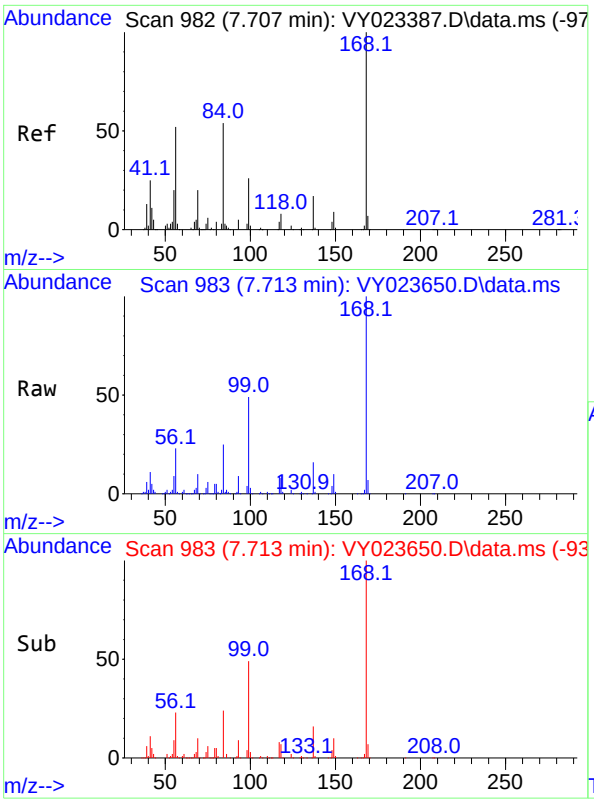
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations APPROVED

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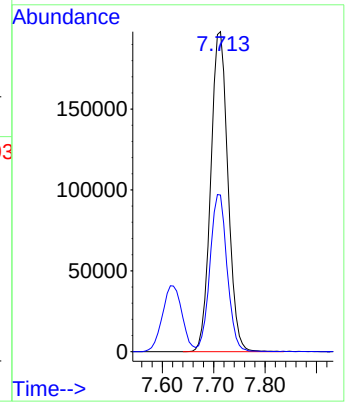




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:168 Resp: 45913

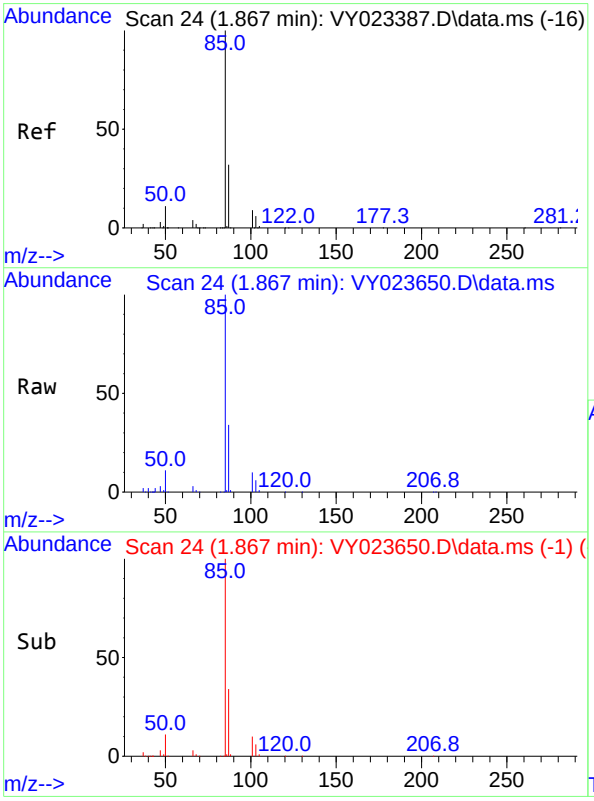
Ion	Ratio	Lower	Upper
168	100		
99	48.8	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

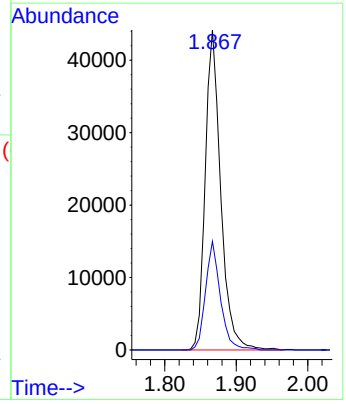
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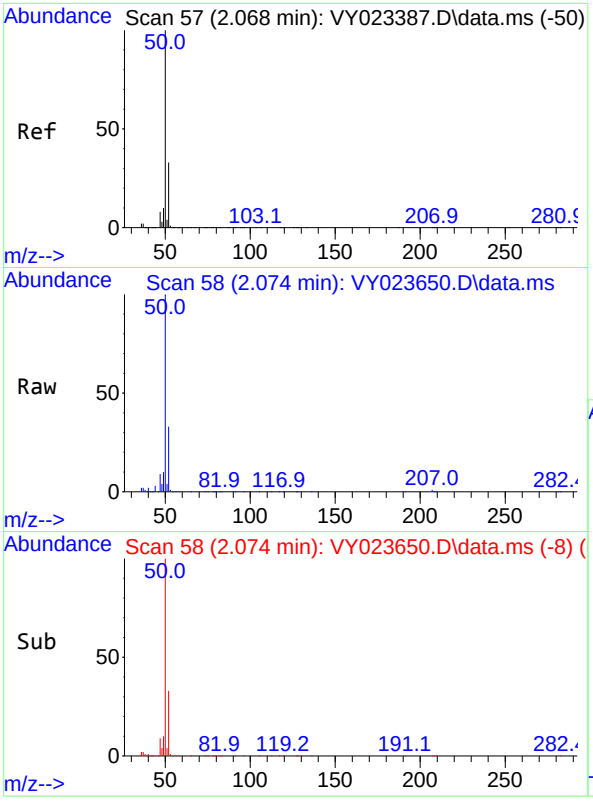


#2
Dichlorodifluoromethane
Concen: 20.145 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 85 Resp: 66573

Ion	Ratio	Lower	Upper
85	100		
87	34.0	16.0	47.9

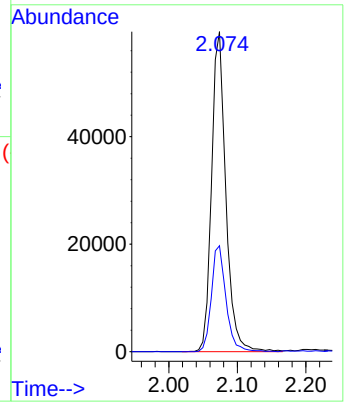




#3
Chloromethane
Concen: 19.151 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 50 Resp: 8621

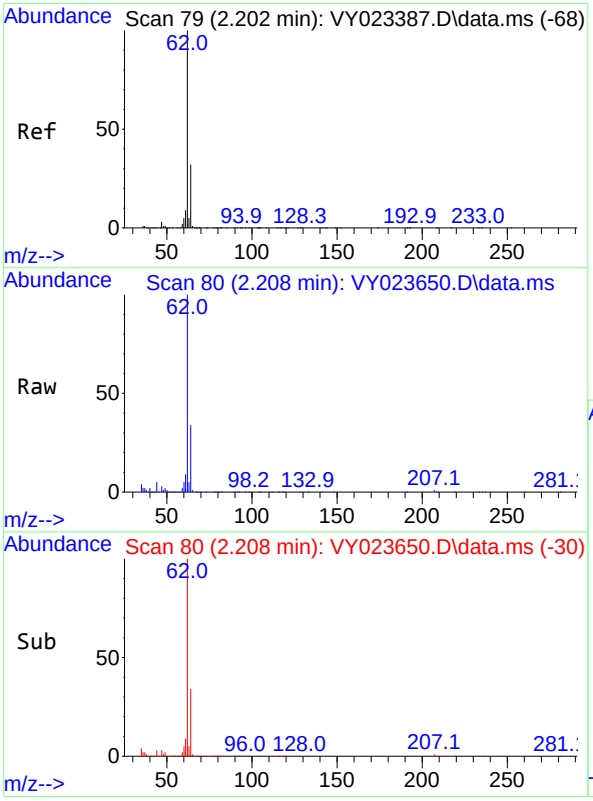
Ion	Ratio	Lower	Upper
50	100		
52	33.1	26.2	39.2



Instrument :
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ClientSampleId :
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Manual Integrations
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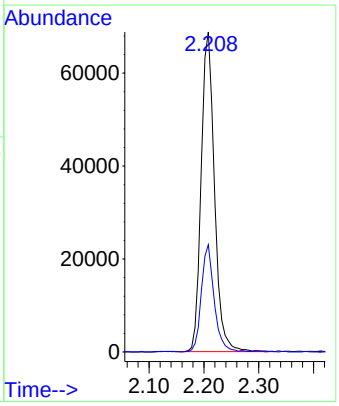
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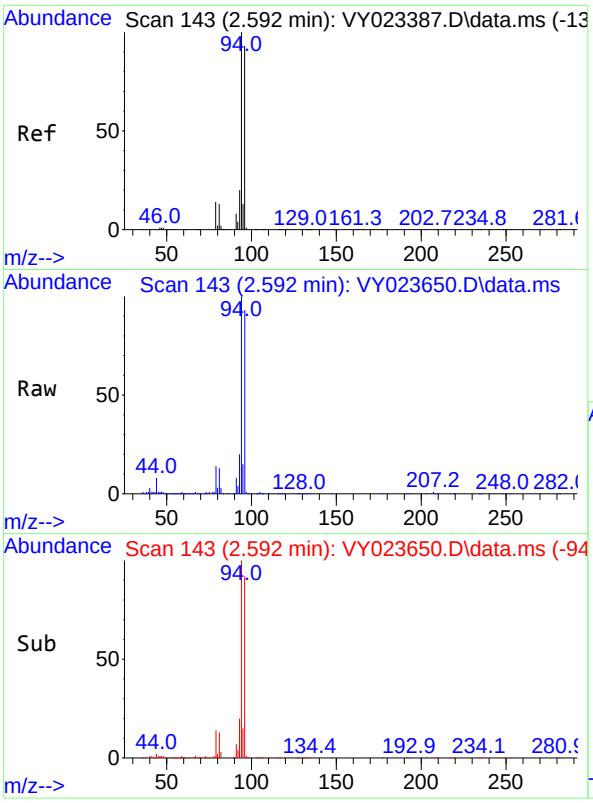


#4
Vinyl Chloride
Concen: 19.706 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 62 Resp: 115549

Ion	Ratio	Lower	Upper
62	100		
64	33.4	25.8	38.8

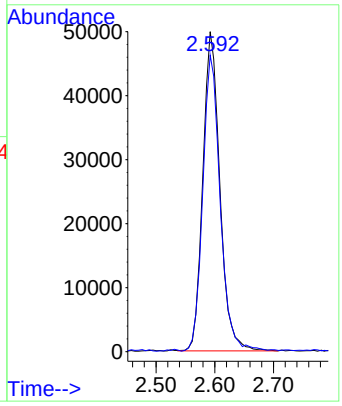




#5
Bromomethane
Concen: 20.434 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 94 Resp: 10055

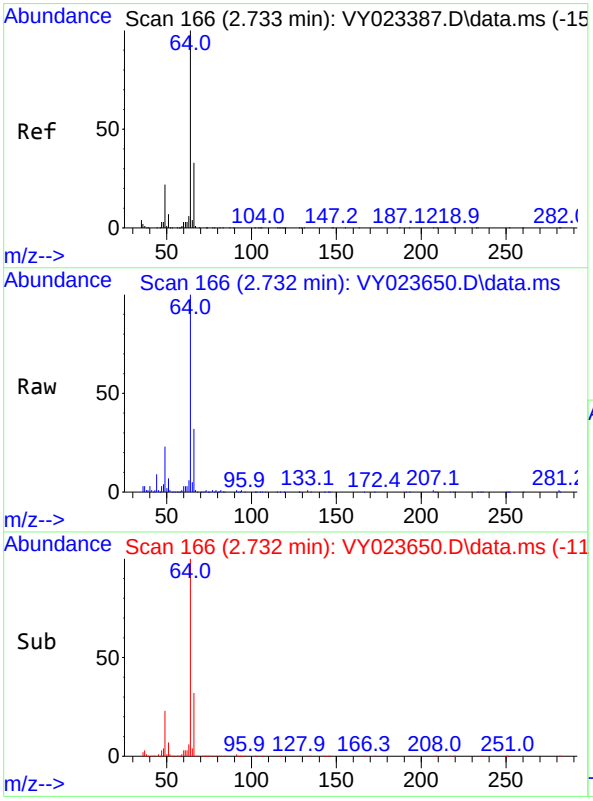
Ion	Ratio	Lower	Upper
94	100		
96	92.5	74.5	111.7



Instrument :
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Manual Integrations
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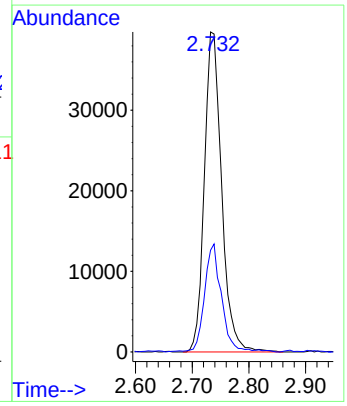
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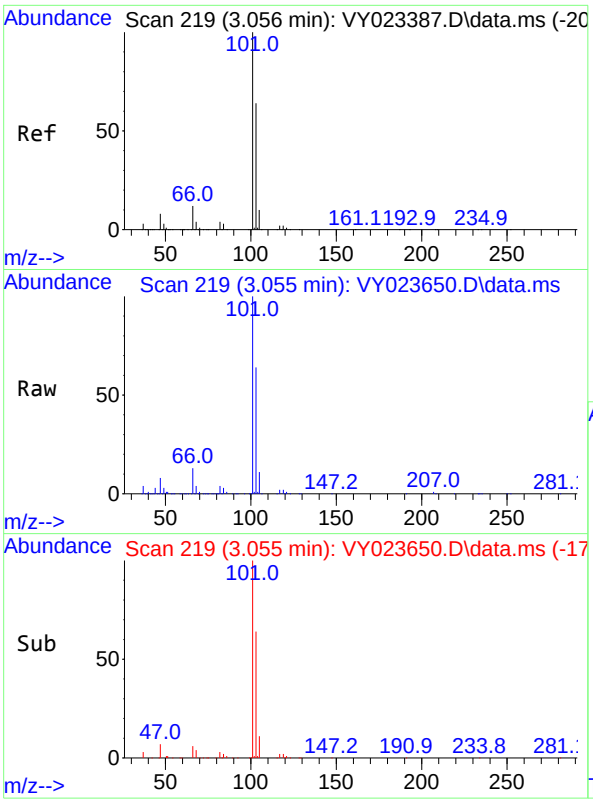


#6
Chloroethane
Concen: 21.058 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 64 Resp: 84170

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.2	39.4

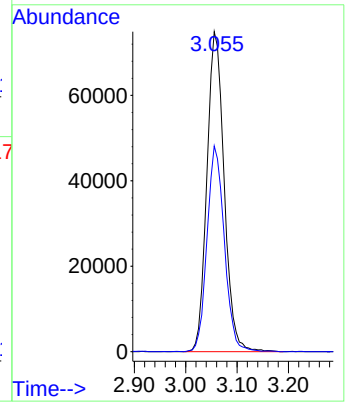




#7
Trichlorofluoromethane
Concen: 21.447 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:101 Resp: 17461

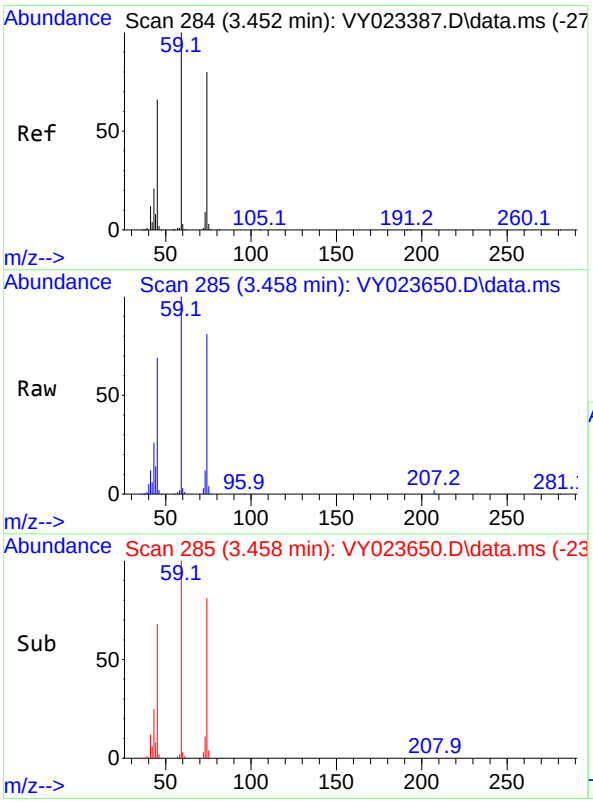
Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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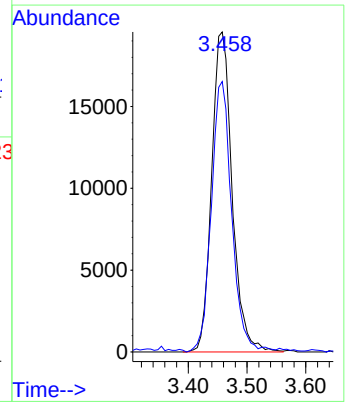
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

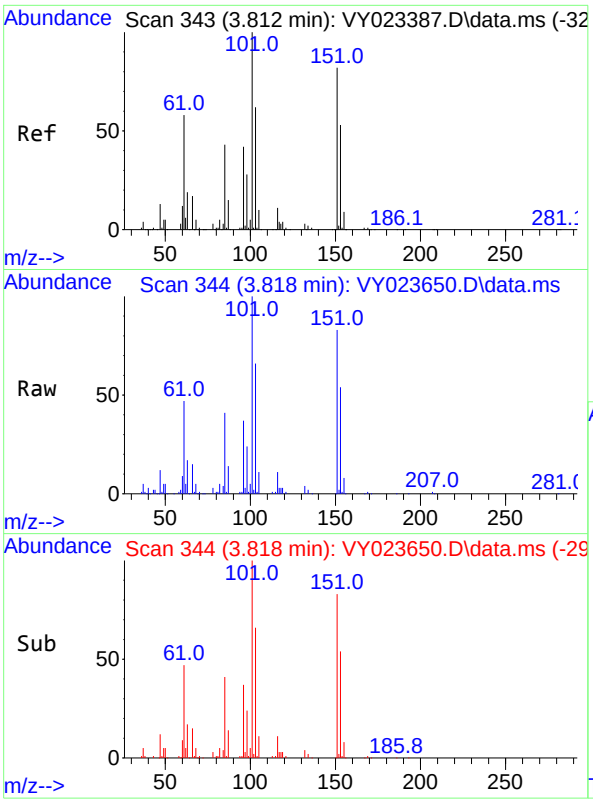


#8
Diethyl Ether
Concen: 22.255 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 74 Resp: 47347

Ion	Ratio	Lower	Upper
74	100		
45	84.4	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.955 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

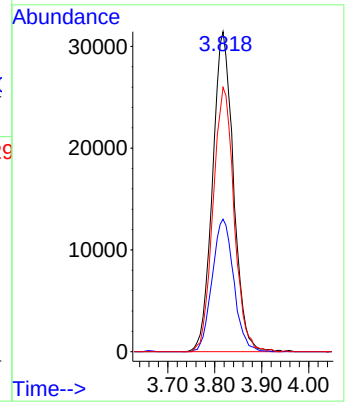
Tgt Ion:101 Resp: 9698

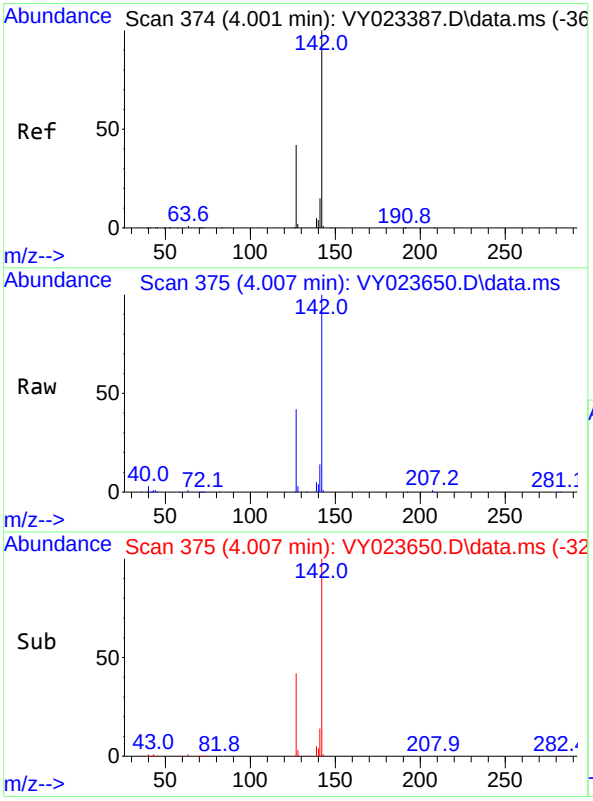
Ion	Ratio	Lower	Upper
101	100		
85	42.8	34.6	51.8
151	83.1	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

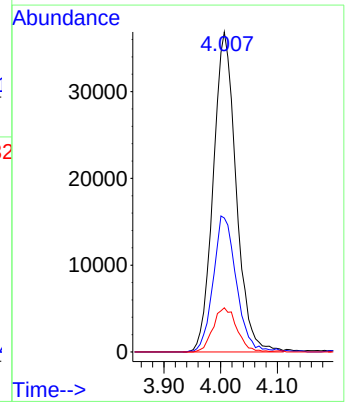


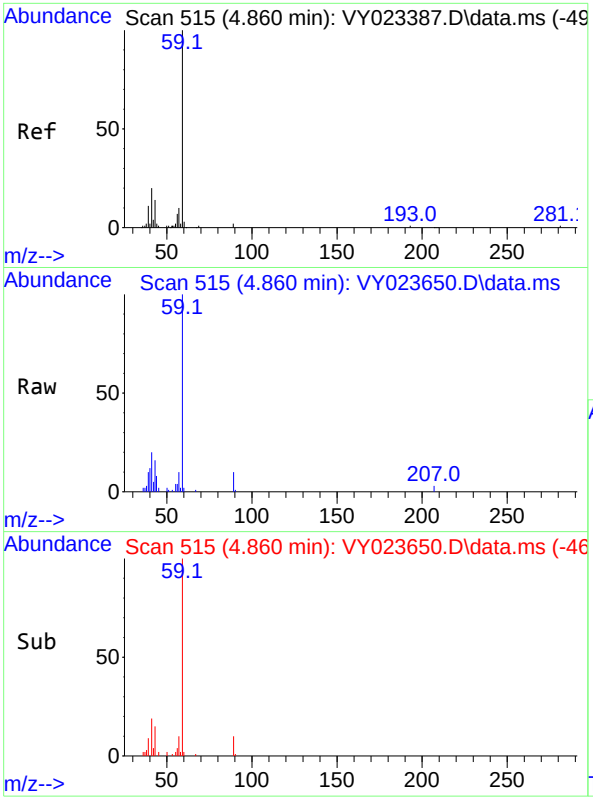


#10
Methyl Iodide
Concen: 21.950 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:142 Resp: 103239

Ion	Ratio	Lower	Upper
142	100		
127	42.8	34.8	52.2
141	14.3	11.6	17.4

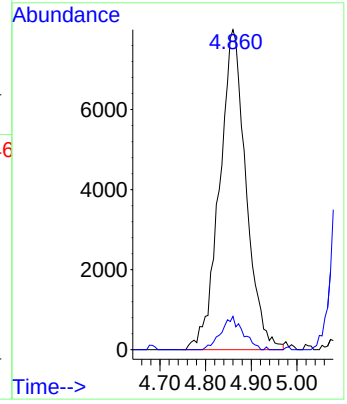




#11
Tert butyl alcohol
Concen: 112.803 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 59 Resp: 3221

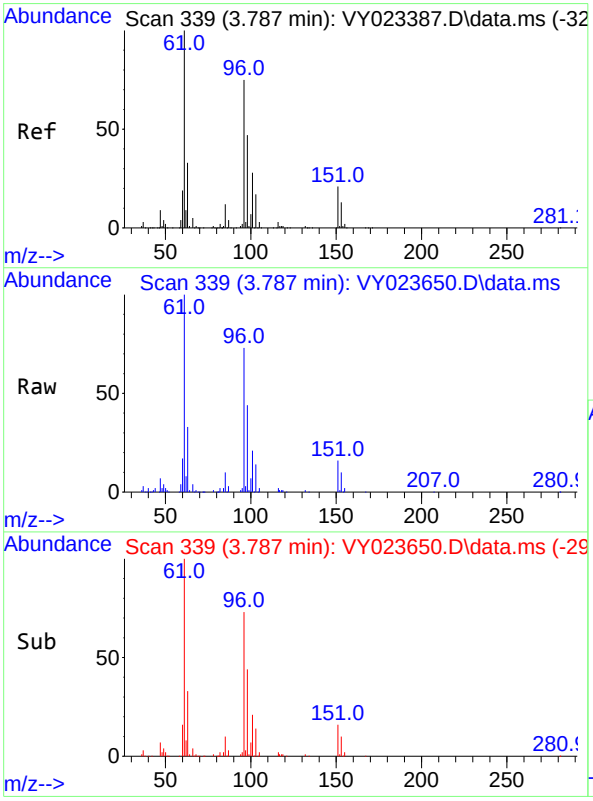
Ion	Ratio	Lower	Upper
59	100		
57	8.5	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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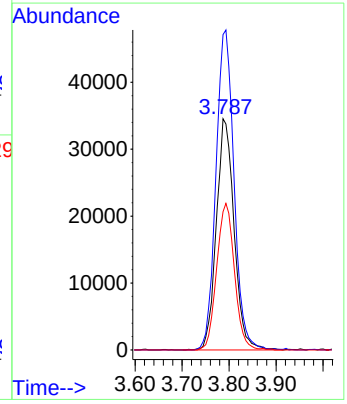
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

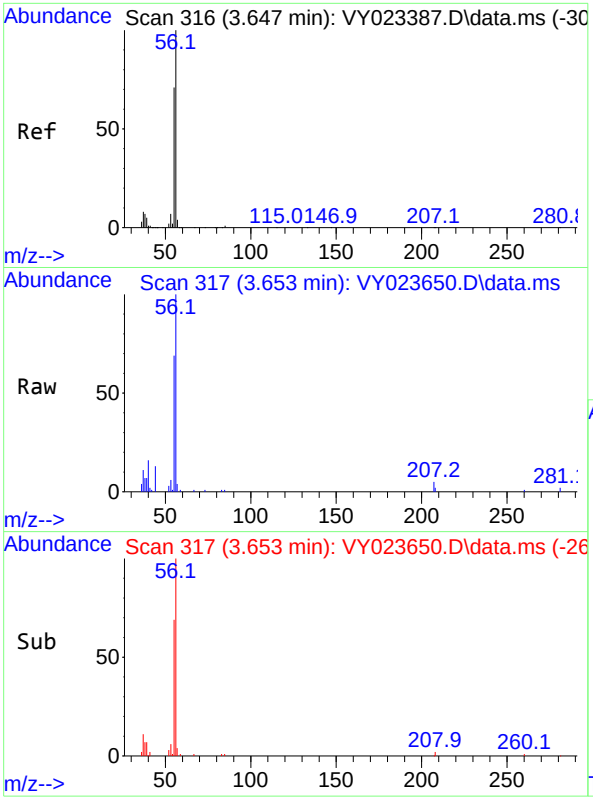


#12
1,1-Dichloroethene
Concen: 22.149 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 96 Resp: 90711

Ion	Ratio	Lower	Upper
96	100		
61	136.4	106.7	160.1
98	59.8	50.2	75.4

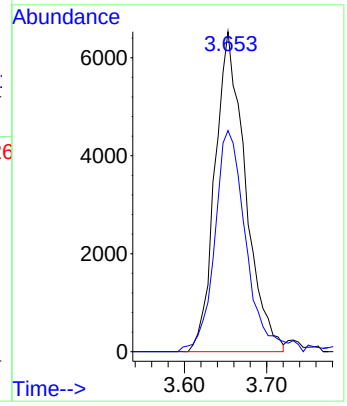




#13
Acrolein
Concen: 41.510 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 56 Resp: 1675

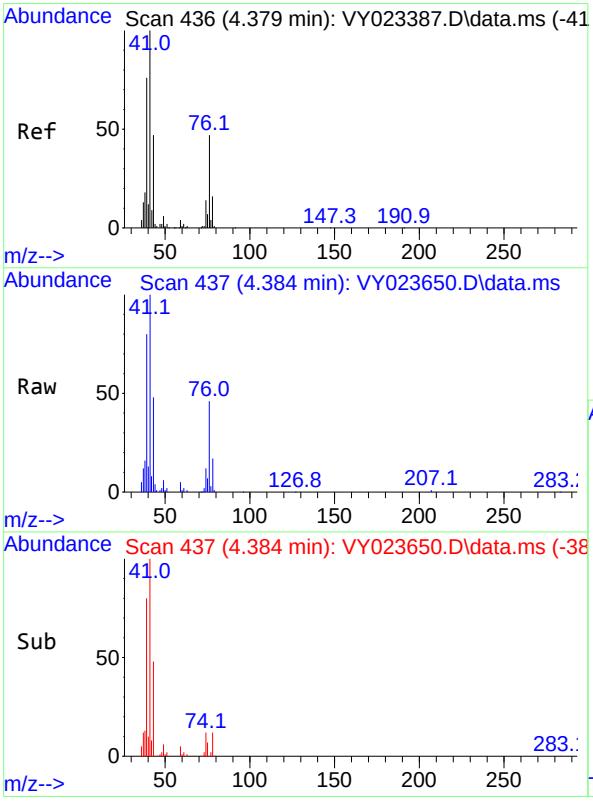
Ion	Ratio	Lower	Upper
56	100		
55	71.3	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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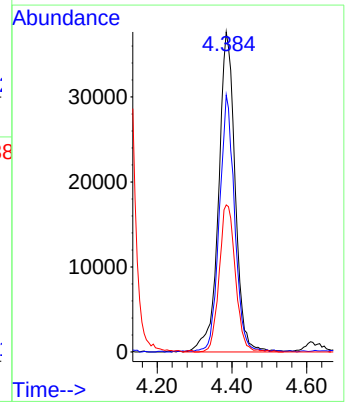
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

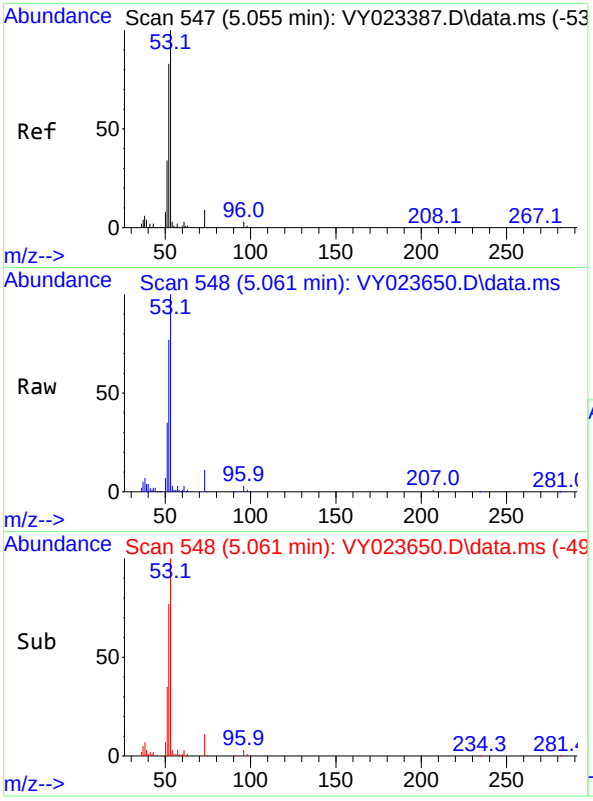


#14
Allyl chloride
Concen: 23.230 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 41 Resp: 115948

Ion	Ratio	Lower	Upper
41	100		
39	73.4	59.9	89.9
76	44.9	38.0	57.0

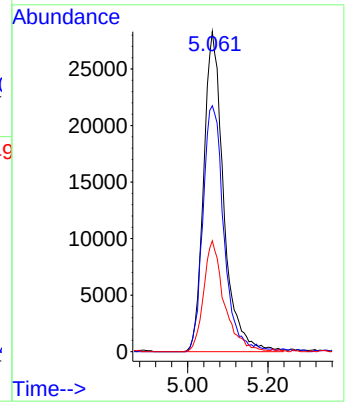




#15
Acrylonitrile
Concen: 120.060 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 53 Resp: 9774

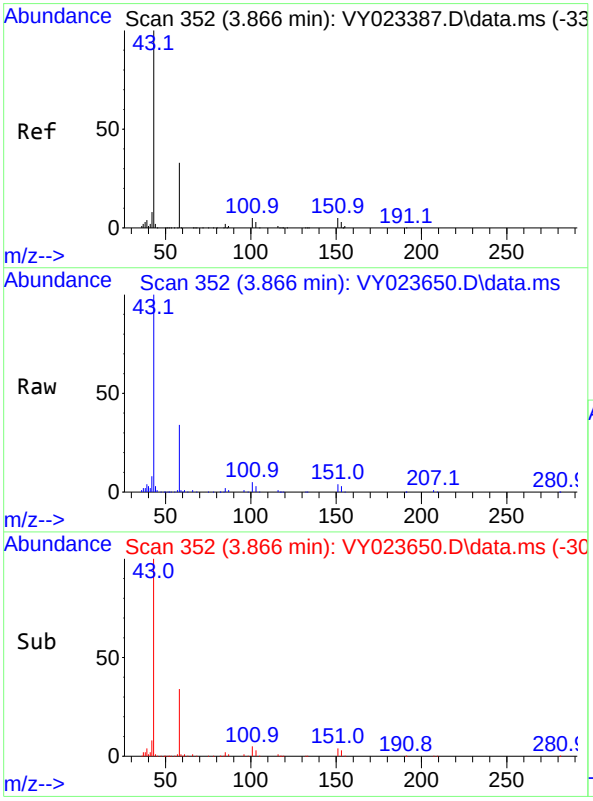
Ion	Ratio	Lower	Upper
53	100		
52	80.8	64.6	97.0
51	35.9	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

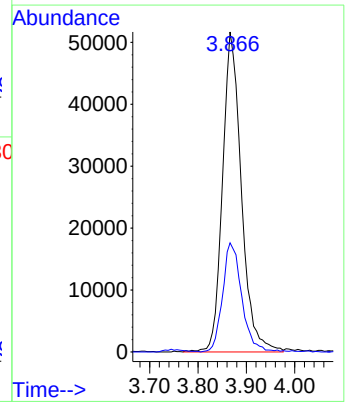
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

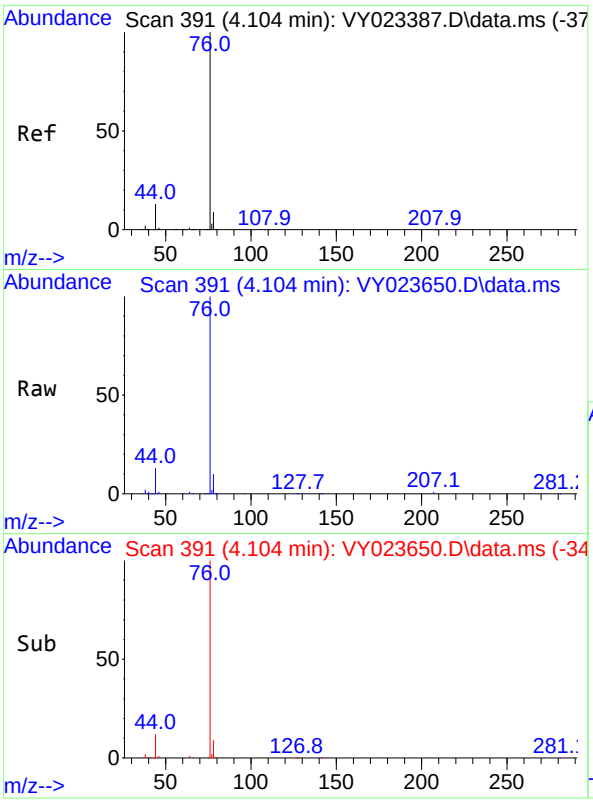


#16
Acetone
Concen: 152.977 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 43 Resp: 139824

Ion	Ratio	Lower	Upper
43	100		
58	33.7	27.7	41.5





#17
Carbon Disulfide
Concen: 20.012 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

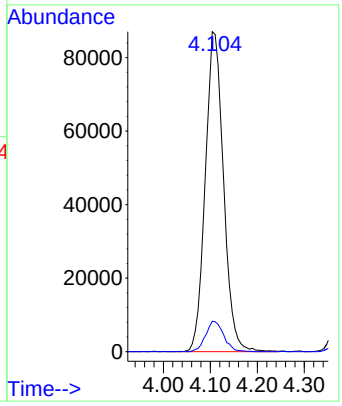
Tgt Ion: 76 Resp: 23458

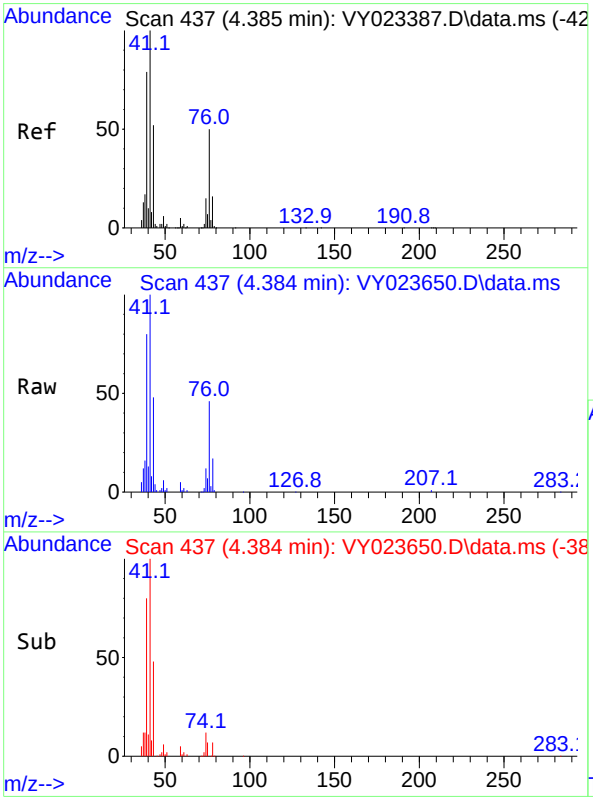
Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.3	10.9

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

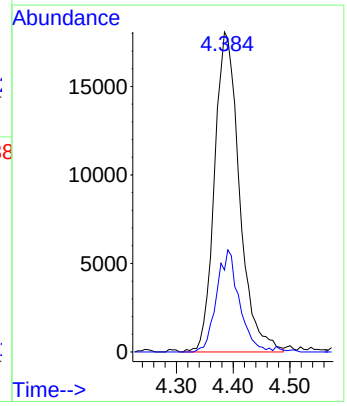


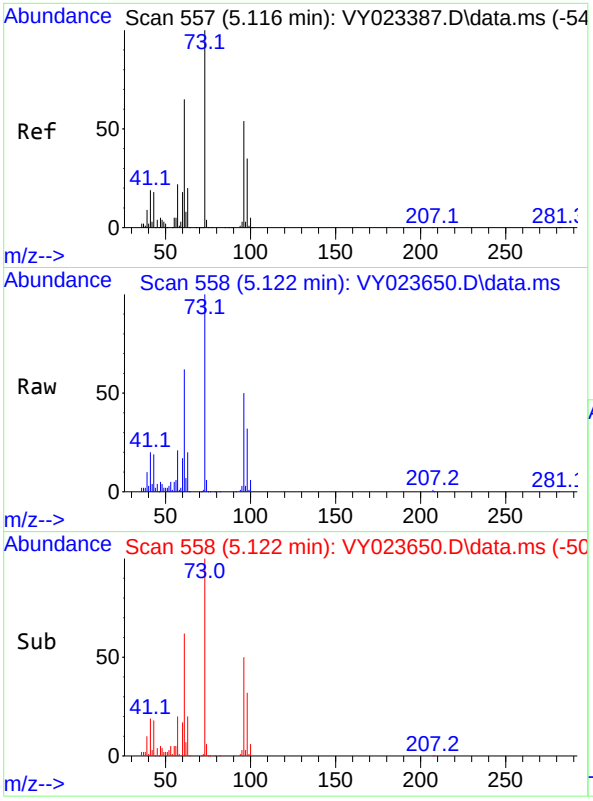


#18
Methyl Acetate
Concen: 23.019 ug/l
RT: 4.384 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 43 Resp: 55192

Ion	Ratio	Lower	Upper
43	100		
74	28.9	24.2	36.4

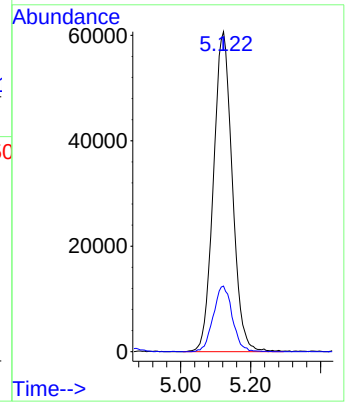




#19
Methyl tert-butyl Ether
Concen: 23.003 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 73 Resp: 22642

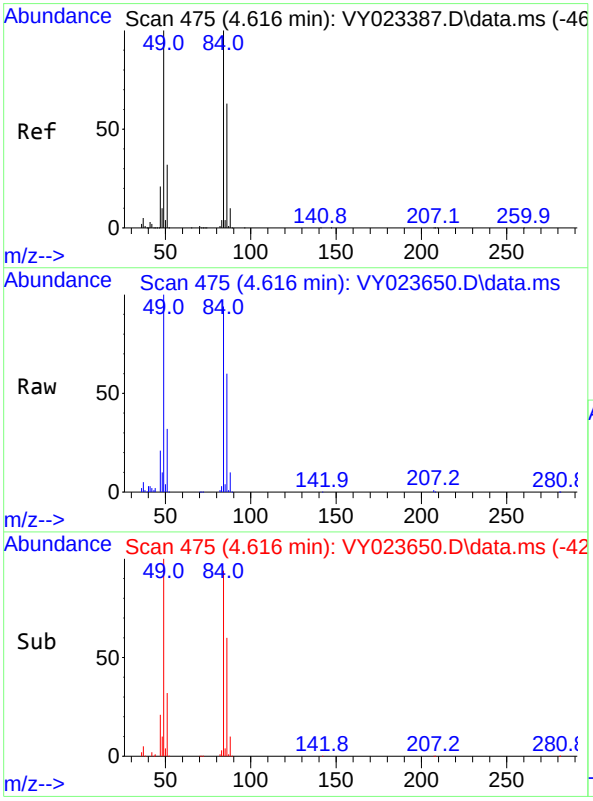
Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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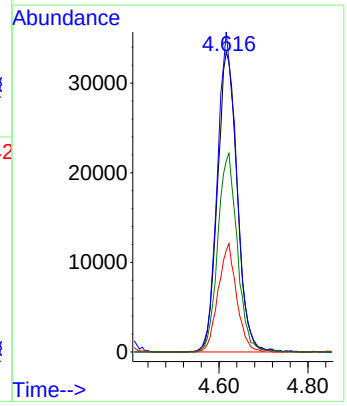
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

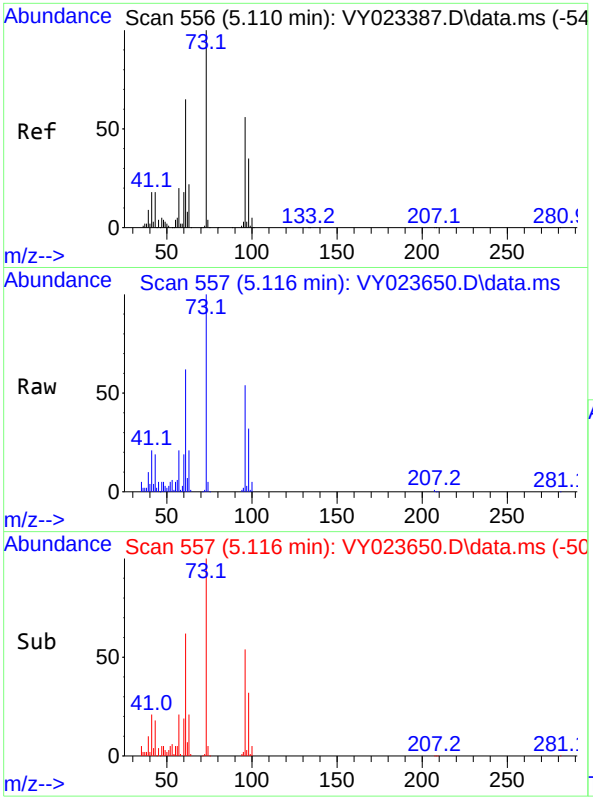


#20
Methylene Chloride
Concen: 20.819 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 84 Resp: 102895

Ion	Ratio	Lower	Upper
84	100		
49	106.6	80.2	120.4
51	33.9	25.9	38.9
86	63.7	50.6	75.8

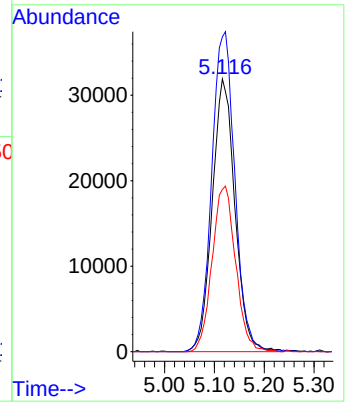




#21
trans-1,2-Dichloroethene
Concen: 22.411 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 96 Resp: 10105

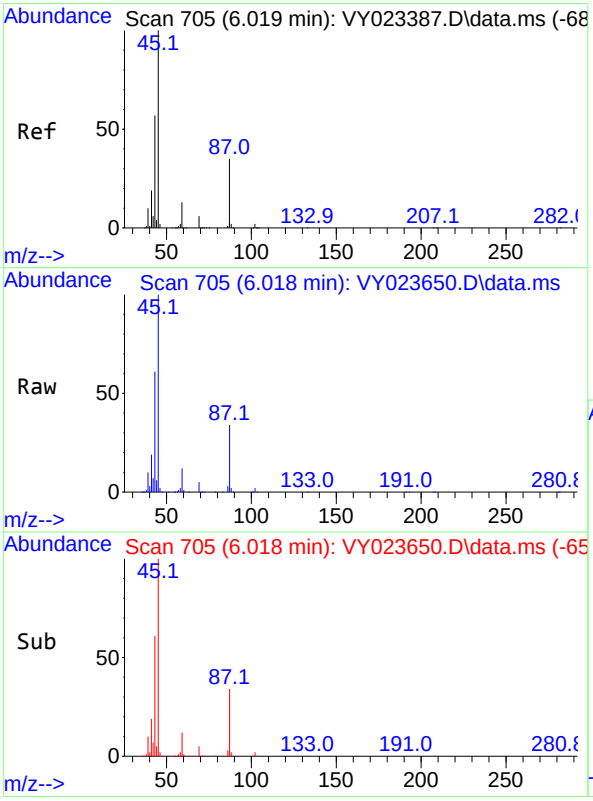
Ion	Ratio	Lower	Upper
96	100		
61	115.4	92.7	139.1
98	59.4	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

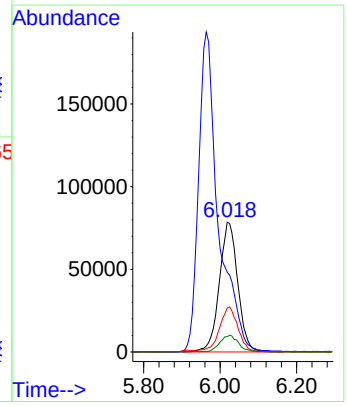
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

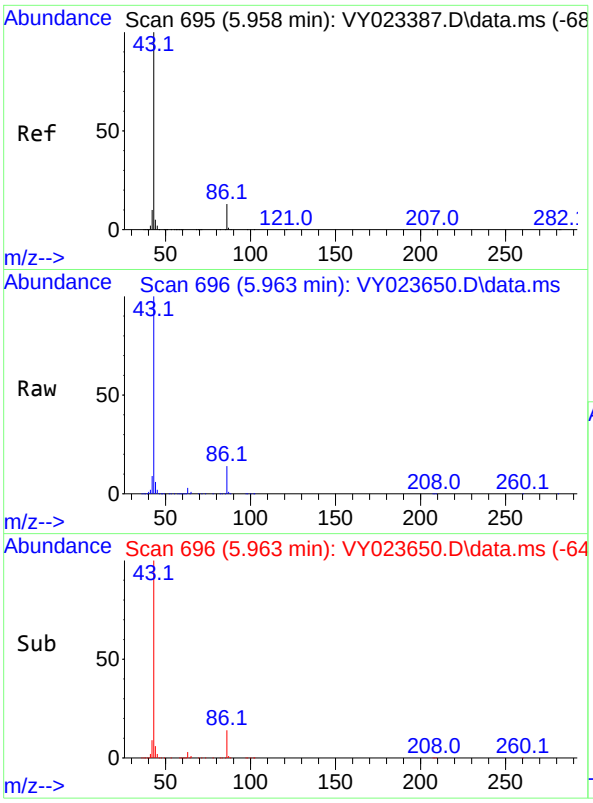


#22
Diisopropyl ether
Concen: 23.801 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 45 Resp: 262775

Ion	Ratio	Lower	Upper
45	100		
43	61.1	45.6	68.4
87	33.9	28.1	42.1
59	11.6	10.2	15.2

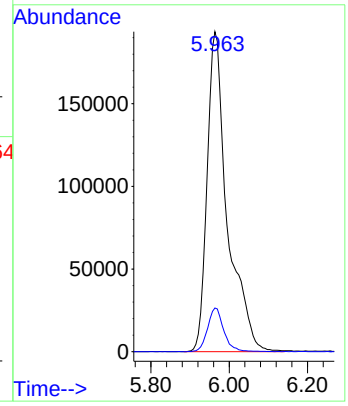




#23
Vinyl Acetate
Concen: 116.519 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 43 Resp: 69632

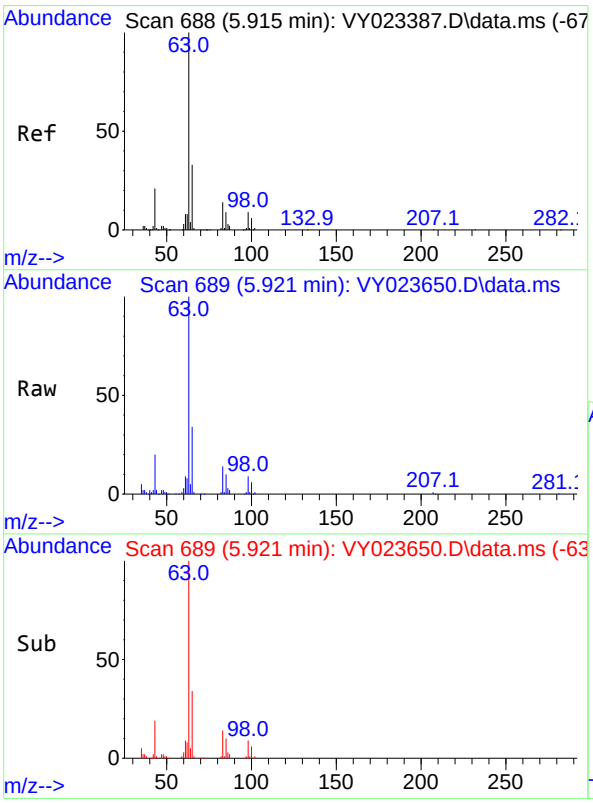
Ion	Ratio	Lower	Upper
43	100		
86	13.6	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

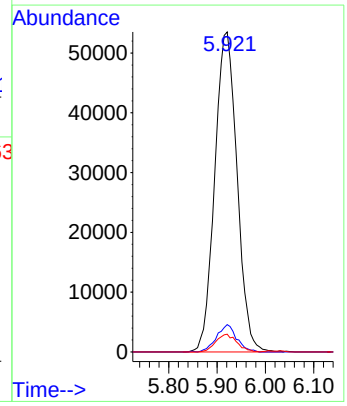
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

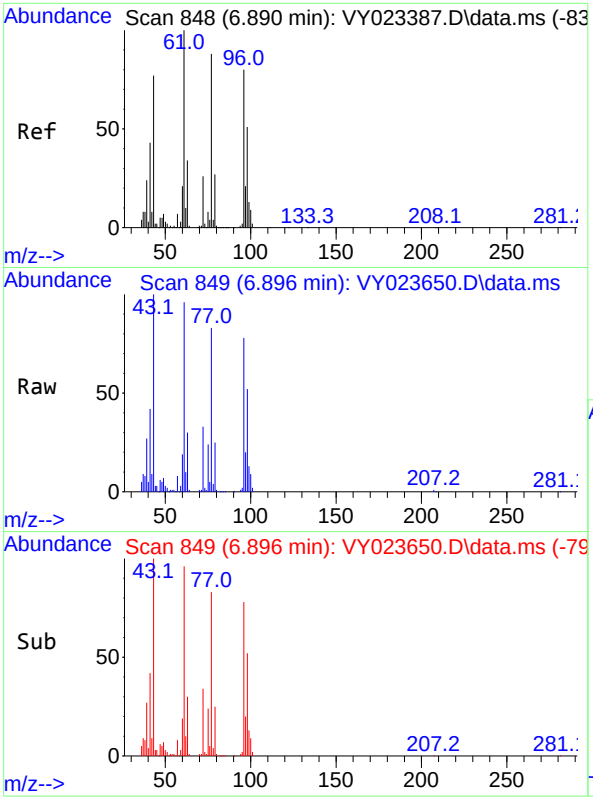


#24
1,1-Dichloroethane
Concen: 23.475 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 63 Resp: 171681

Ion	Ratio	Lower	Upper
63	100		
98	8.6	4.3	13.1
100	5.5	2.8	8.4

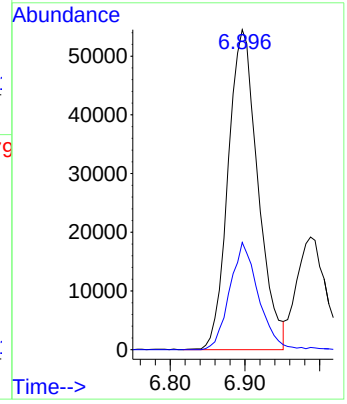




#25
2-Butanone
Concen: 135.610 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 43 Resp: 15132

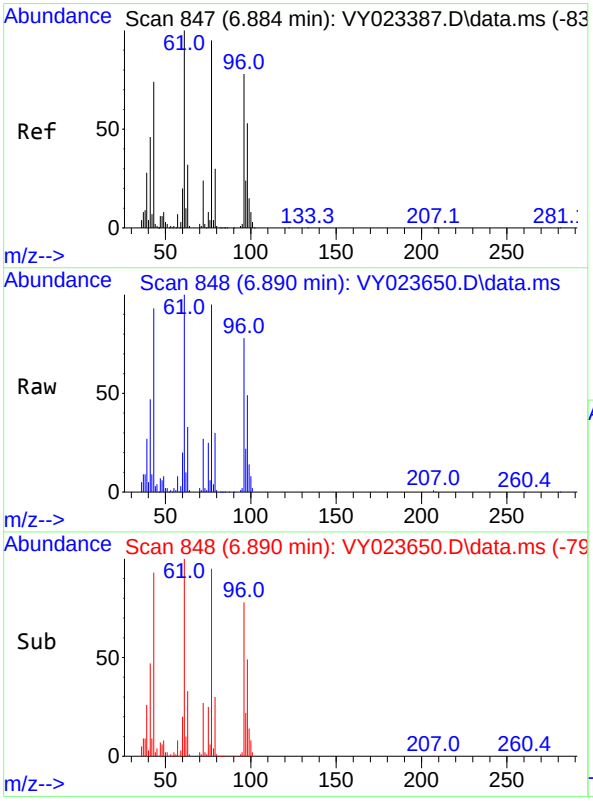
Ion	Ratio	Lower	Upper
43	100		
72	33.5	27.4	41.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

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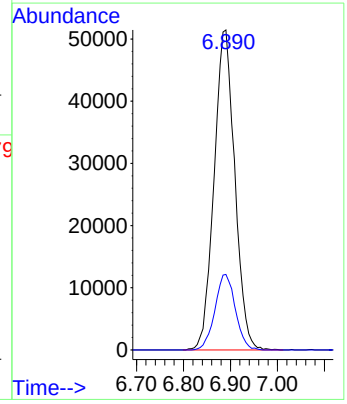
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

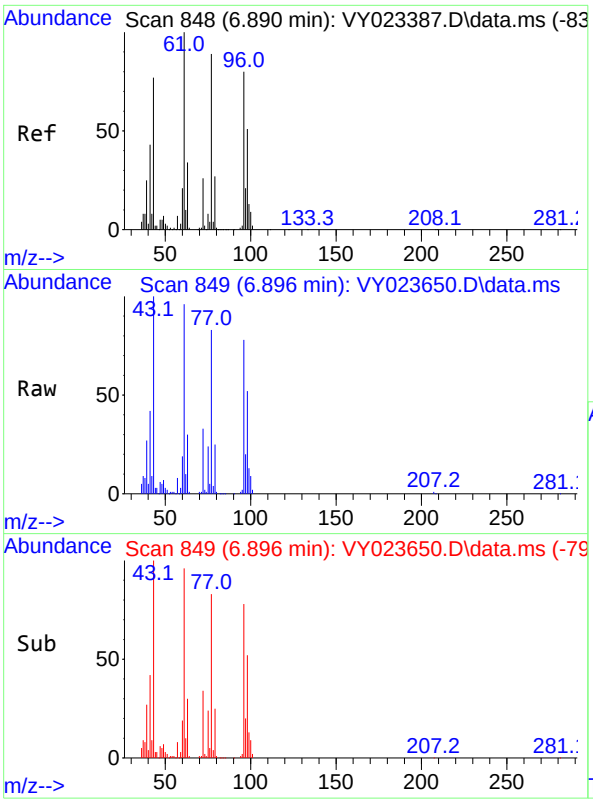


#26
2,2-Dichloropropane
Concen: 23.457 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 77 Resp: 157411

Ion	Ratio	Lower	Upper
77	100		
97	23.3	12.1	36.3





#27
cis-1,2-Dichloroethene
Concen: 23.019 ug/l
RT: 6.896 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

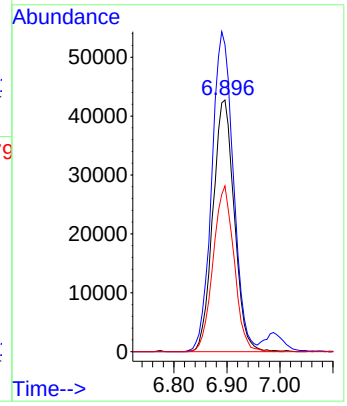
Tgt Ion: 96 Resp: 11989

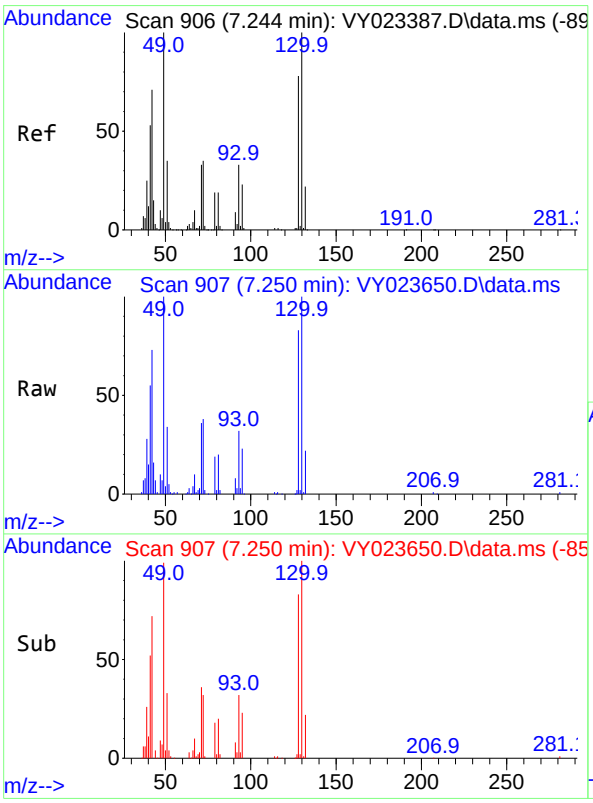
Ion	Ratio	Lower	Upper
96	100		
61	128.0	0.0	258.2
98	64.4	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

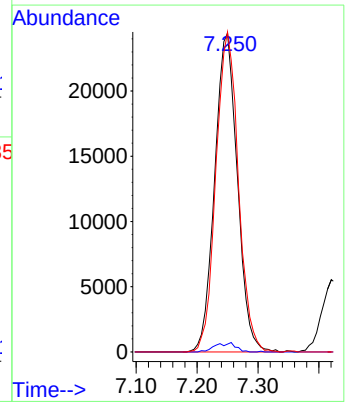


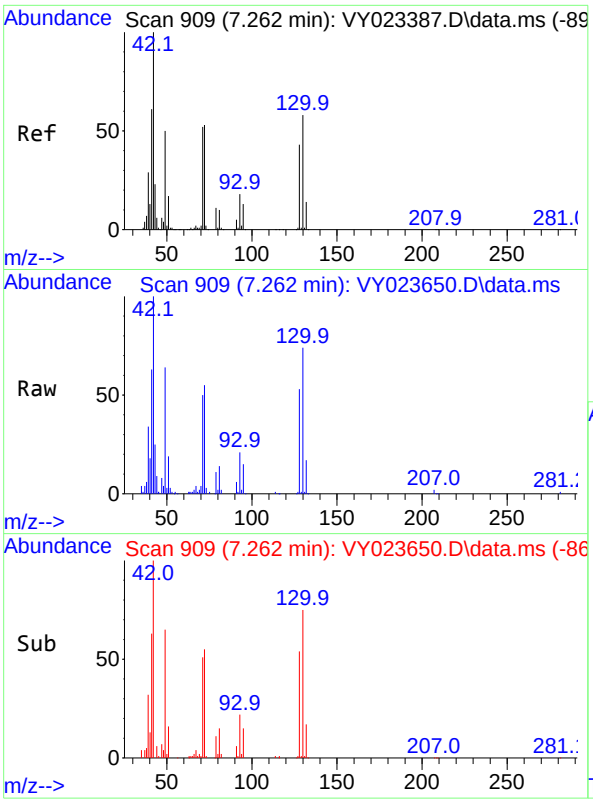


#28
Bromochloromethane
Concen: 23.120 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 49 Resp: 63123

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	5.6
130	99.4	81.9	122.9

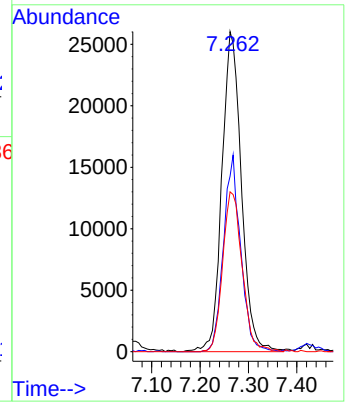




#29
Tetrahydrofuran
Concen: 115.096 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 42 Resp: 7283(

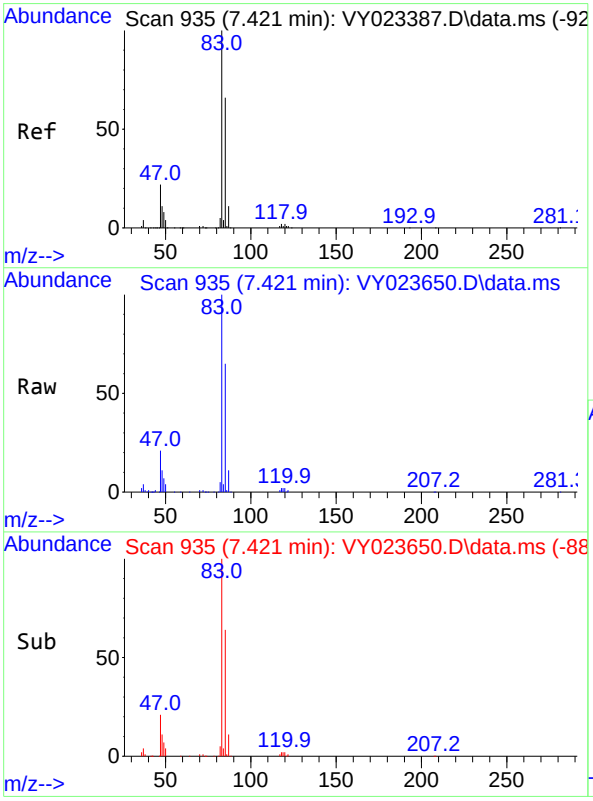
Ion	Ratio	Lower	Upper
42	100		
72	54.2	43.0	64.6
71	50.0	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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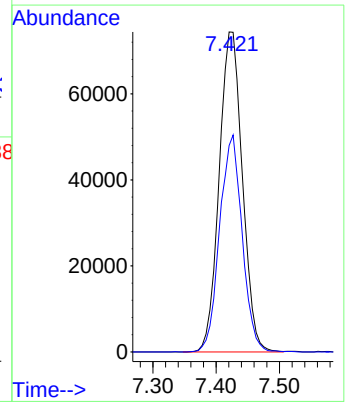
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

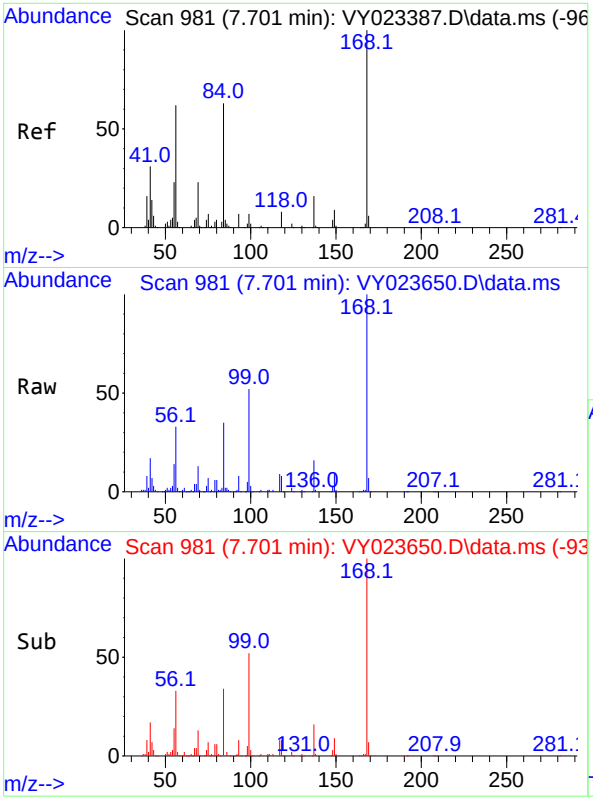


#30
Chloroform
Concen: 23.569 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 83 Resp: 189380

Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.5	78.7

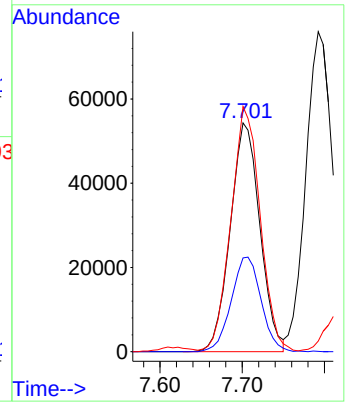




#31
Cyclohexane
Concen: 21.328 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 56 Resp: 13621

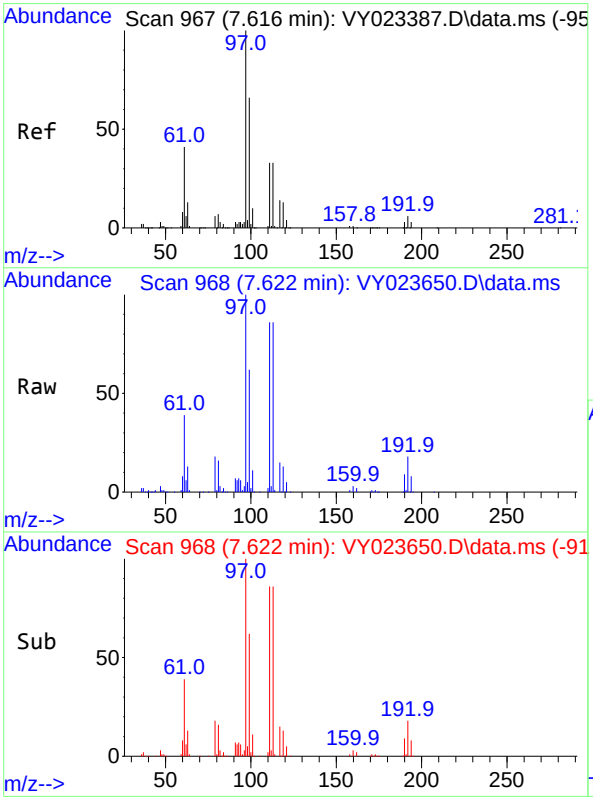
Ion	Ratio	Lower	Upper
56	100		
69	41.0	30.0	45.0
84	105.6	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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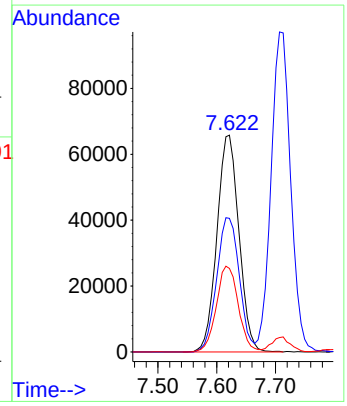
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

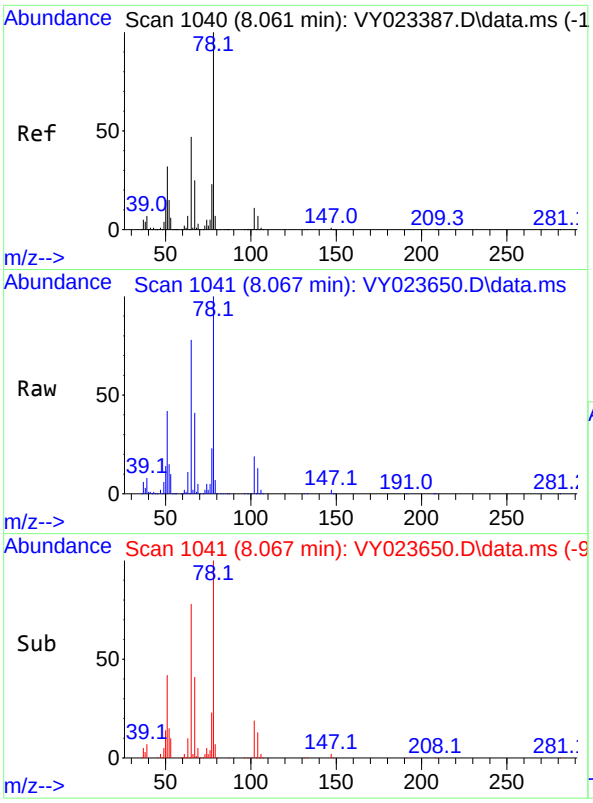


#32
1,1,1-Trichloroethane
Concen: 23.445 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 97 Resp: 171195

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.4	77.2
61	39.4	31.9	47.9

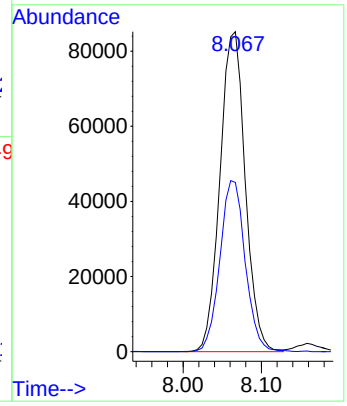




#33
1,2-Dichloroethane-d4
Concen: 49.836 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 65 Resp: 19133

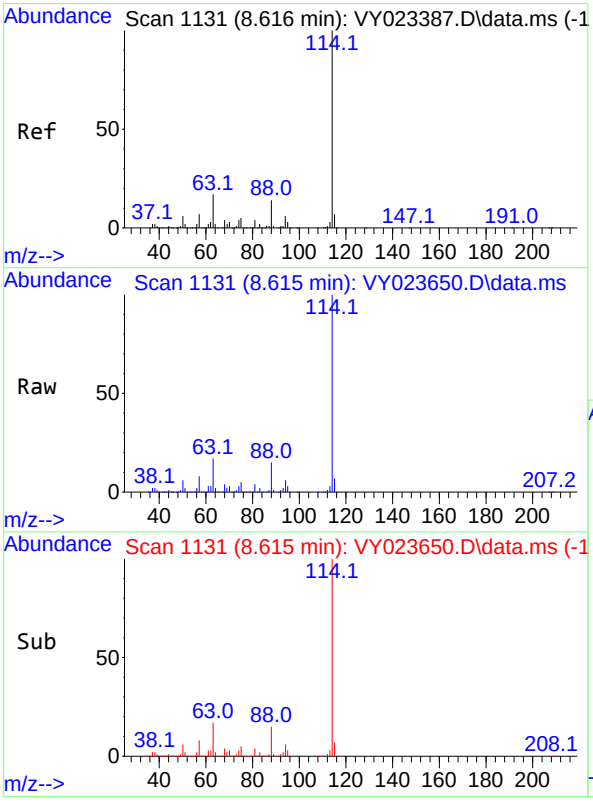
Ion	Ratio	Lower	Upper
65	100		
67	53.6	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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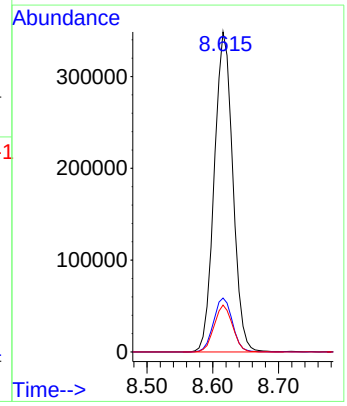
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

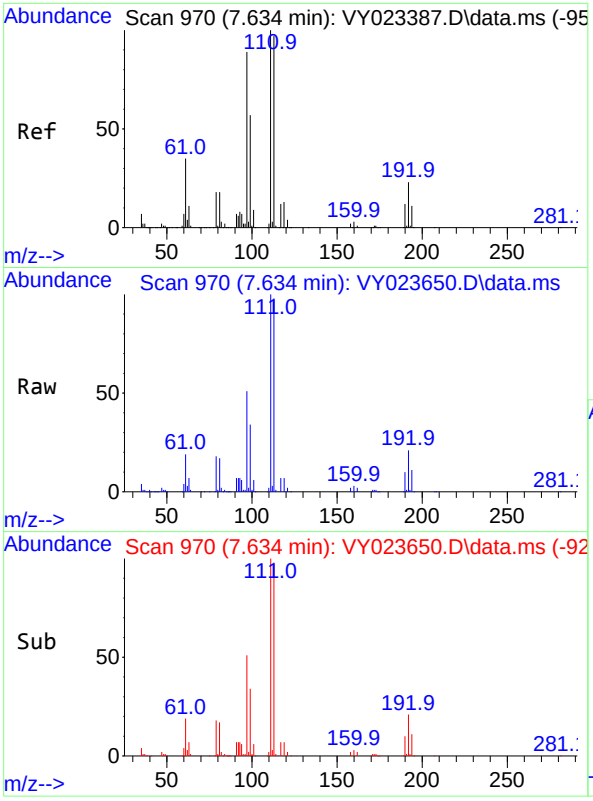


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:114 Resp: 683030

Ion	Ratio	Lower	Upper
114	100		
63	16.8	0.0	34.2
88	14.7	0.0	28.4

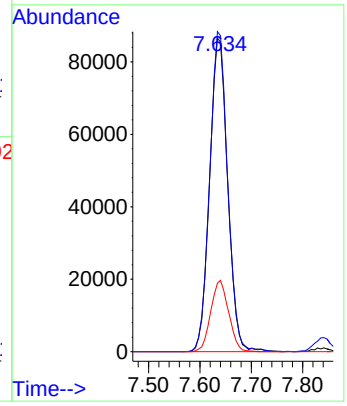




#35
Dibromofluoromethane
Concen: 50.254 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:113 Resp: 21091

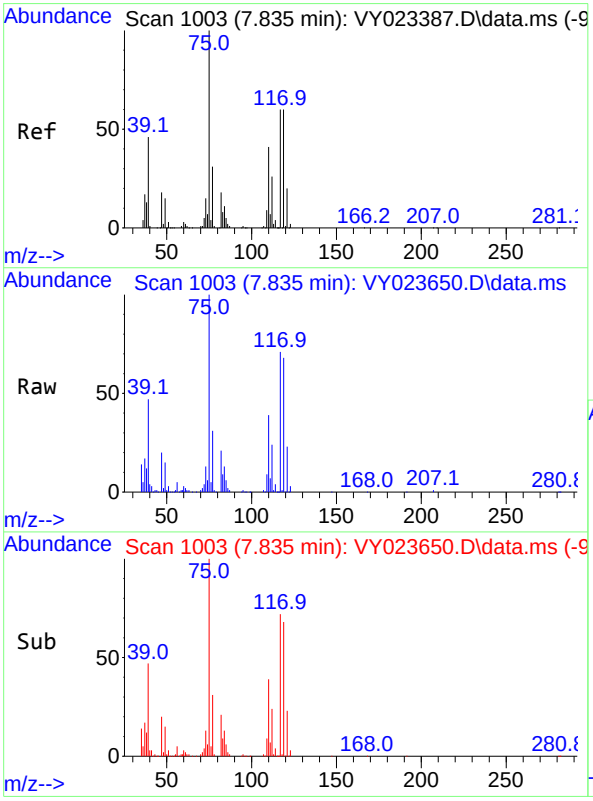
Ion	Ratio	Lower	Upper
113	100		
111	101.7	81.8	122.6
192	22.5	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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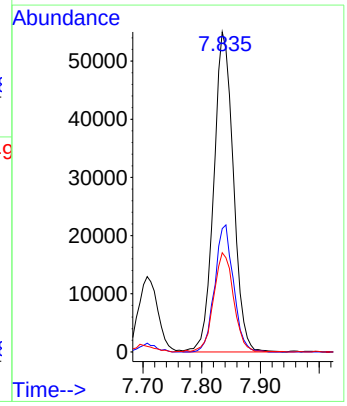
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

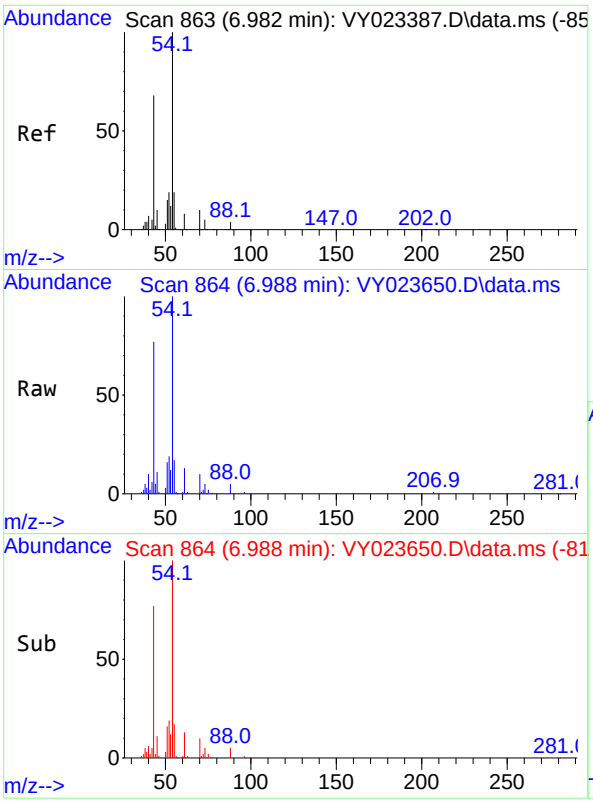


#36
1,1-Dichloropropene
Concen: 22.925 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 75 Resp: 127376

Ion	Ratio	Lower	Upper
75	100		
110	38.0	19.9	59.7
77	31.9	25.0	37.6





#37
Ethyl Acetate
Concen: 24.095 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

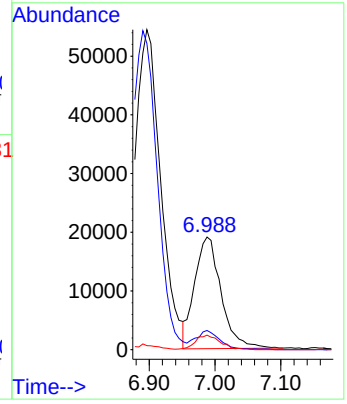
Tgt Ion: 43 Resp: 5303

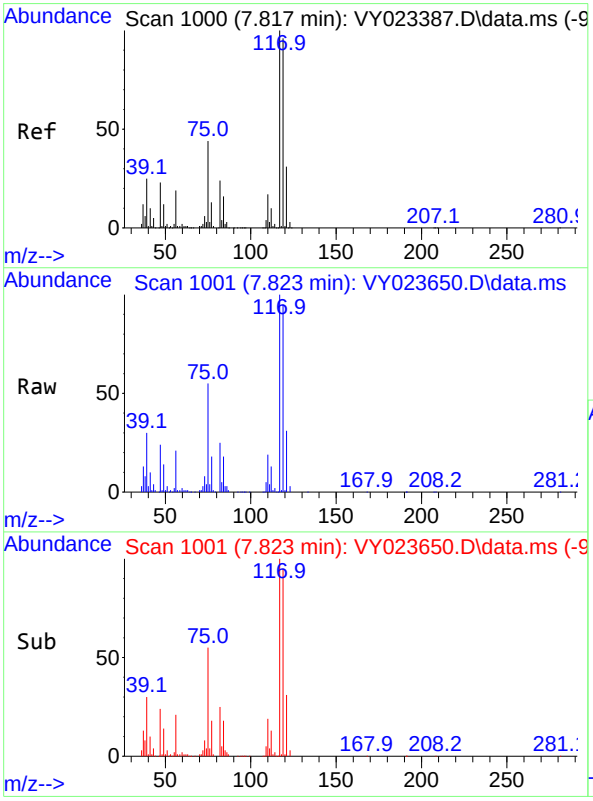
Ion	Ratio	Lower	Upper
43	100		
61	16.0	11.8	17.8
70	12.4	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

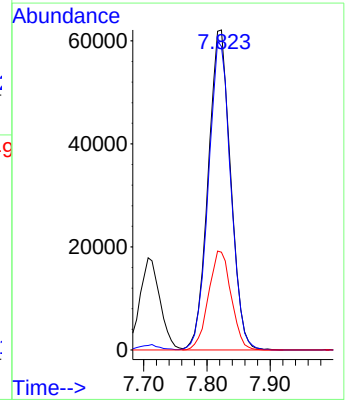


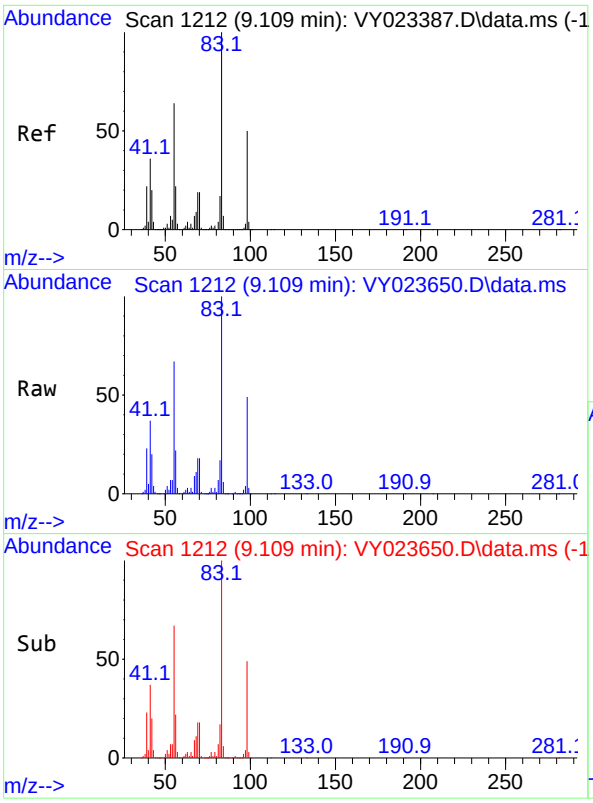


#38
Carbon Tetrachloride
Concen: 22.733 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:117 Resp: 153159

Ion	Ratio	Lower	Upper
117	100		
119	94.8	76.8	115.2
121	30.5	24.5	36.7

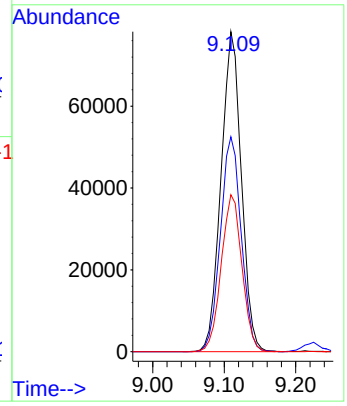




#39
Methylcyclohexane
Concen: 21.330 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 83 Resp: 15430

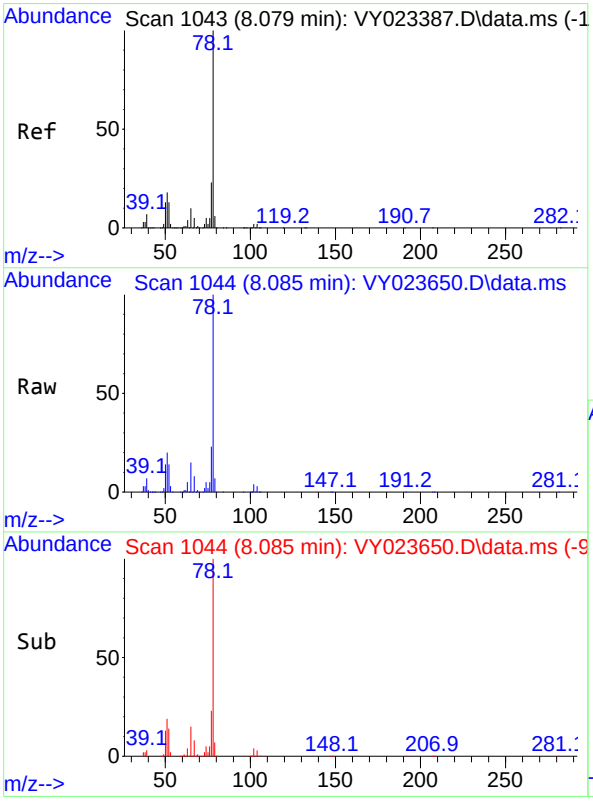
Ion	Ratio	Lower	Upper
83	100		
55	67.2	51.4	77.2
98	49.0	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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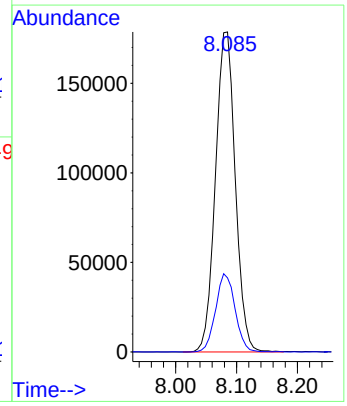
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

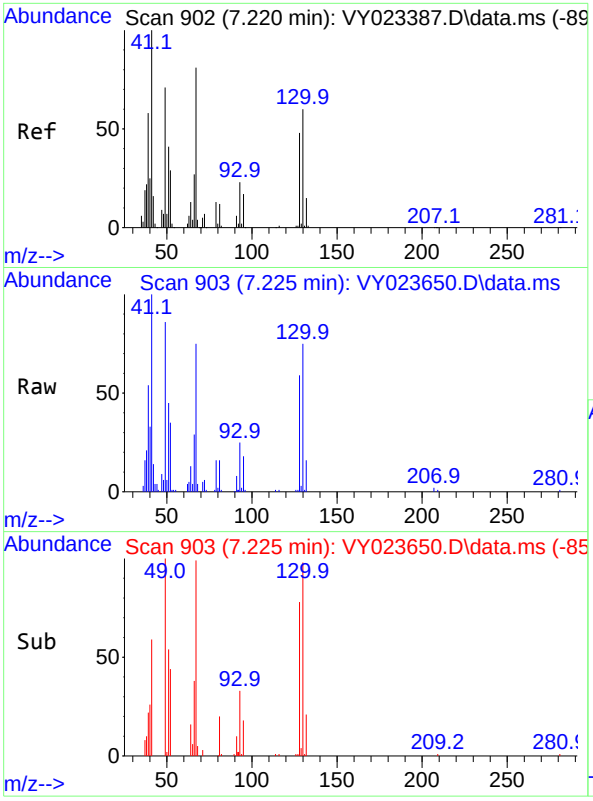


#40
Benzene
Concen: 22.976 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 78 Resp: 404284

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.3	27.5

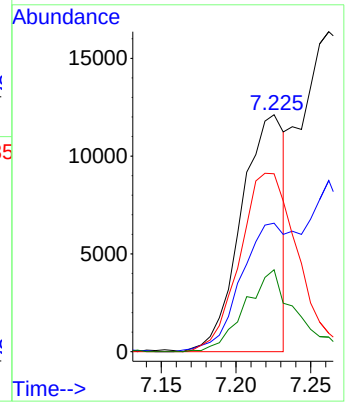




#41
Methacrylonitrile
Concen: 20.479 ug/l
RT: 7.225 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 41 Resp: 2438

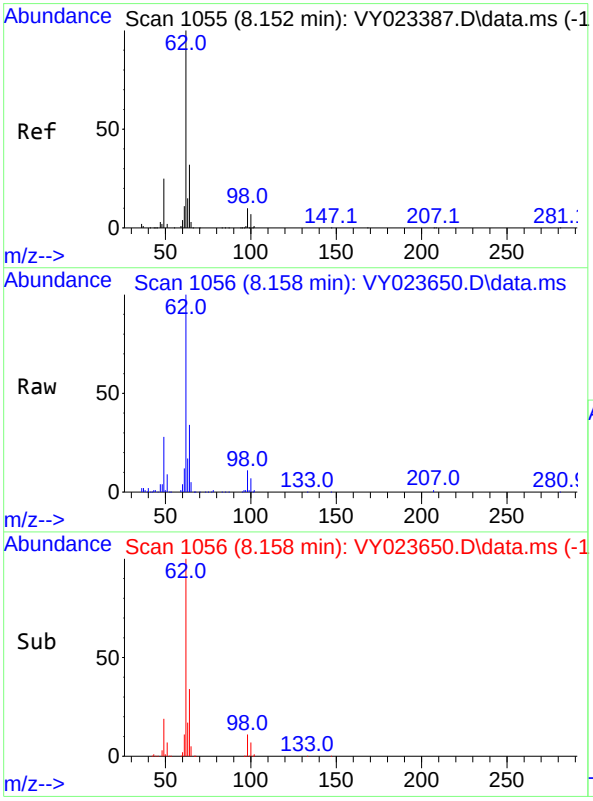
Ion	Ratio	Lower	Upper
41	100		
39	54.5	52.2	78.4
67	103.5	74.9	112.3
52	41.4	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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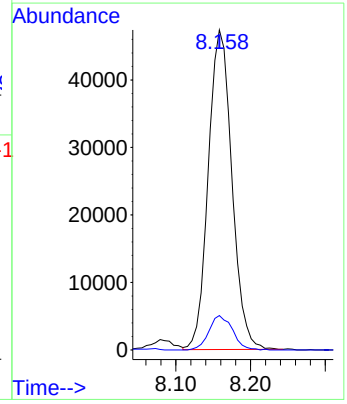
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

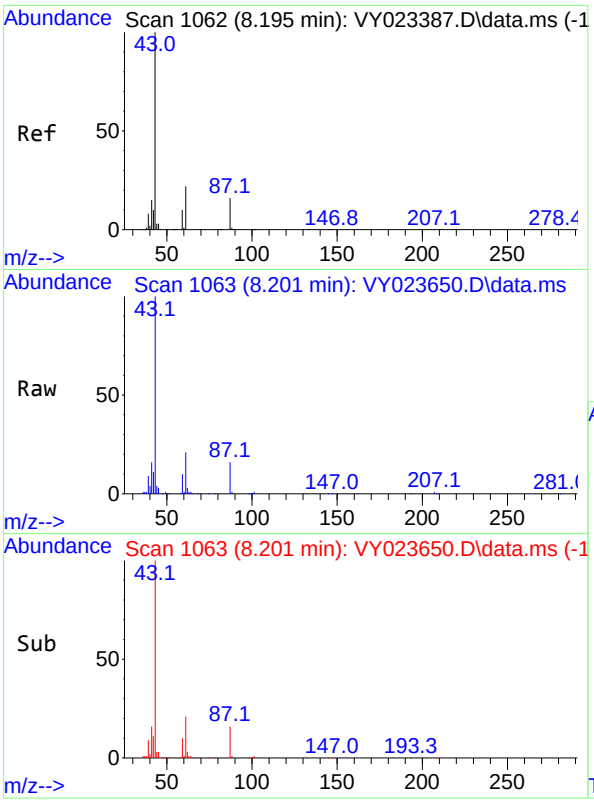


#42
1,2-Dichloroethane
Concen: 22.882 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 62 Resp: 103842

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	21.6

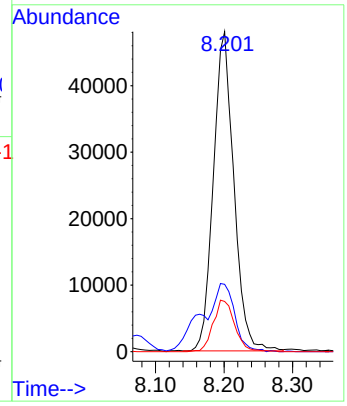




#43
Isopropyl Acetate
Concen: 22.738 ug/l
RT: 8.201 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 43 Resp: 9980

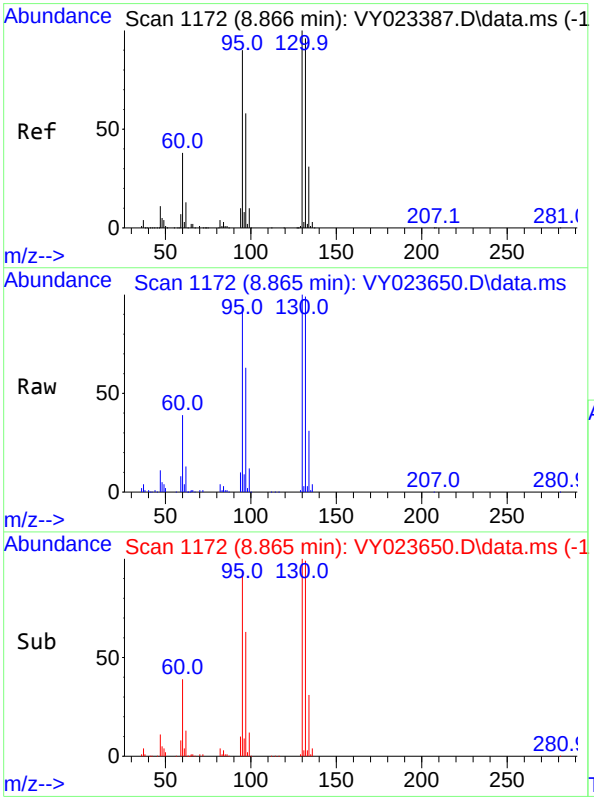
Ion	Ratio	Lower	Upper
43	100		
61	21.8	18.1	27.1
87	16.9	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

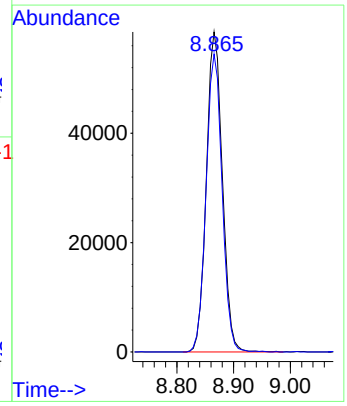
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

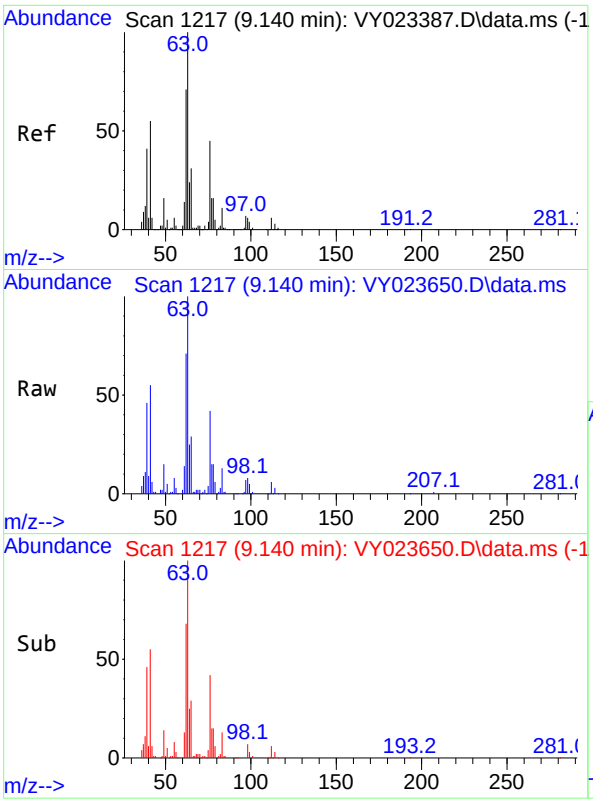


#44
Trichloroethene
Concen: 22.265 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:130 Resp: 114668

Ion	Ratio	Lower	Upper
130	100		
95	93.1	0.0	180.6

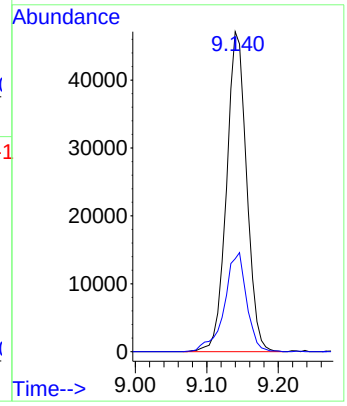




#45
1,2-Dichloropropane
Concen: 23.658 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 63 Resp: 9194

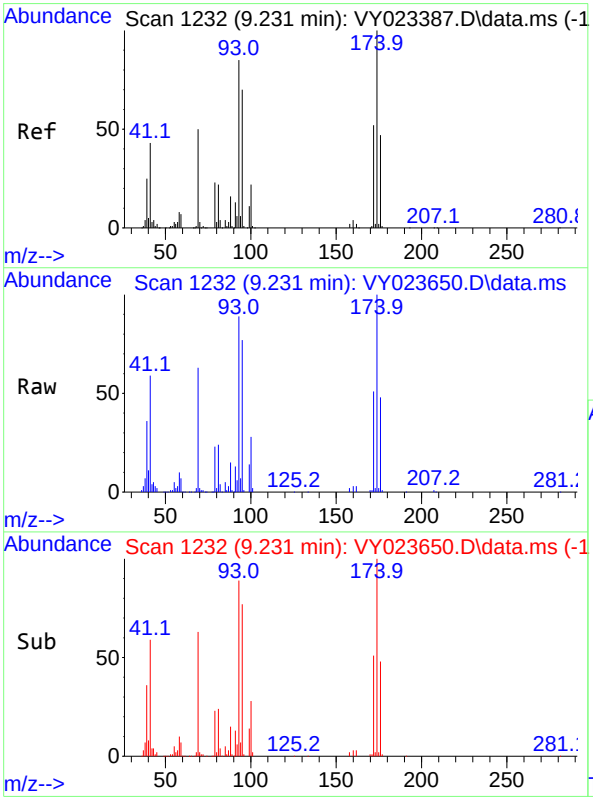
Ion	Ratio	Lower	Upper
63	100		
65	29.1	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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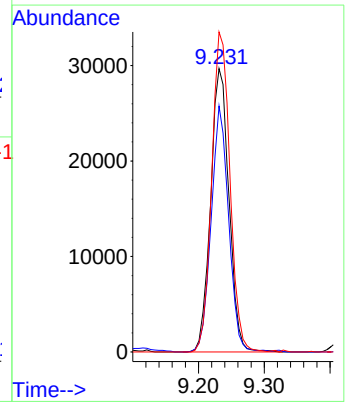
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

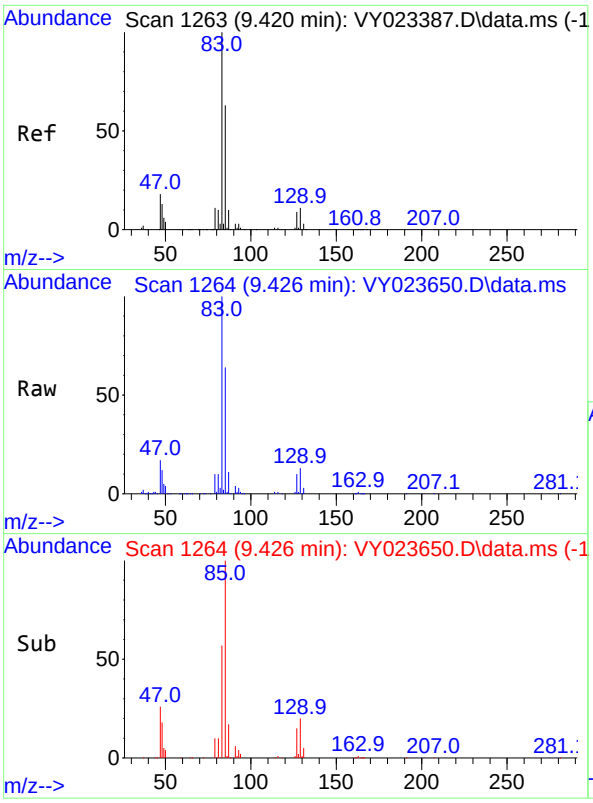


#46
Dibromomethane
Concen: 23.460 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 93 Resp: 57655

Ion	Ratio	Lower	Upper
93	100		
95	82.6	65.4	98.0
174	112.2	92.9	139.3

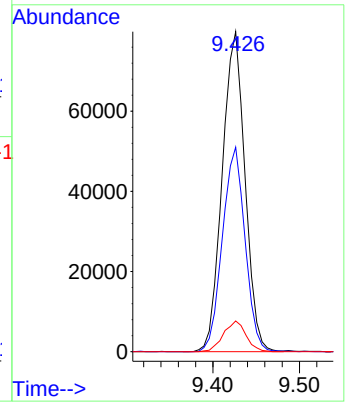




#47
Bromodichloromethane
Concen: 23.578 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 83 Resp: 14593

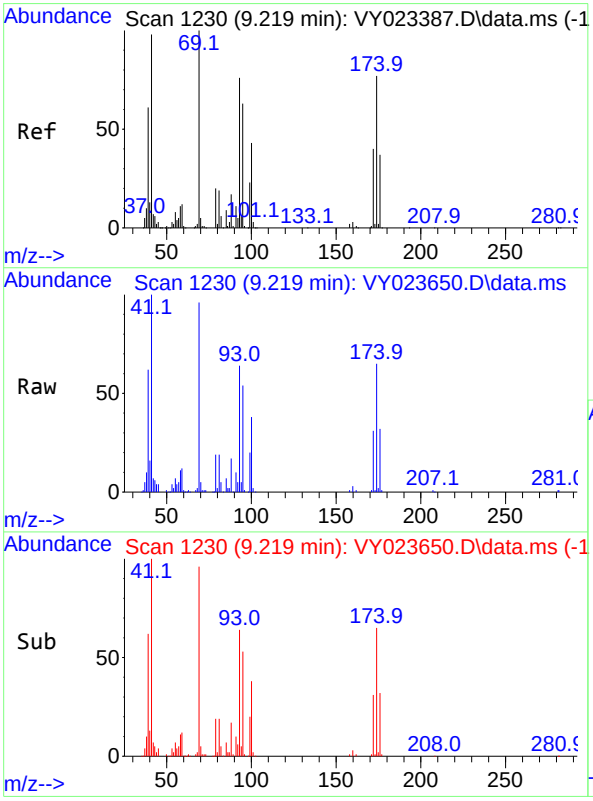
Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.8	76.2
127	9.6	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

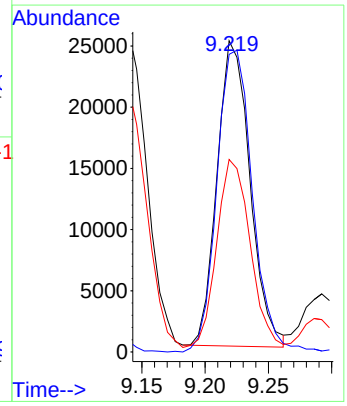
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

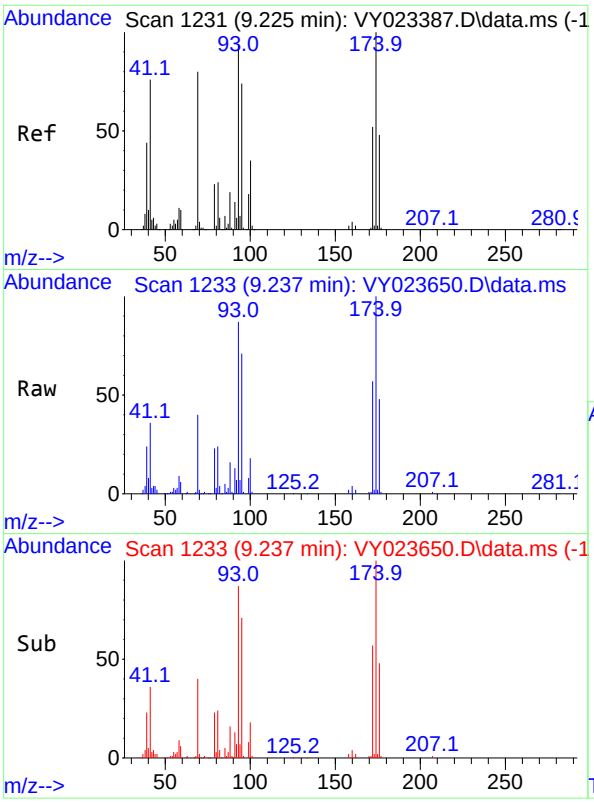


#48
Methyl methacrylate
Concen: 21.949 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 41 Resp: 45260

Ion	Ratio	Lower	Upper
41	100		
69	106.6	81.0	121.4
39	62.3	48.2	72.4





#49
1,4-Dioxane
Concen: 424.053 ug/l
RT: 9.237 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

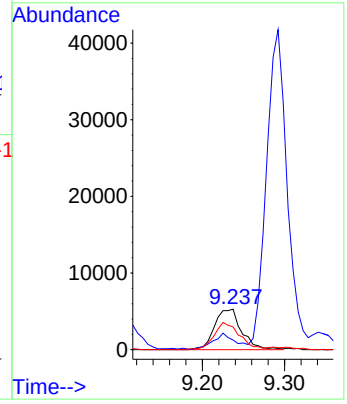
Tgt Ion: 88 Resp: 1208

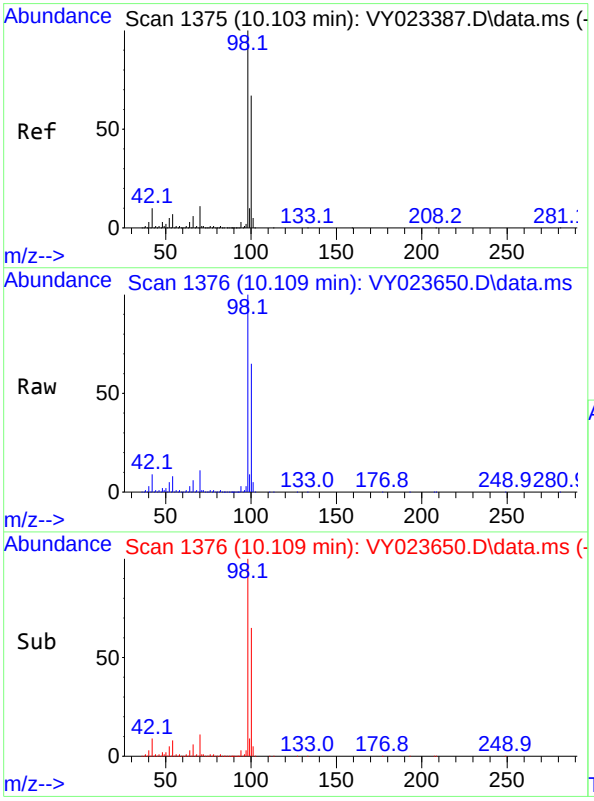
Ion	Ratio	Lower	Upper
88	100		
43	32.2	21.8	32.8
58	63.5	46.8	70.2

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

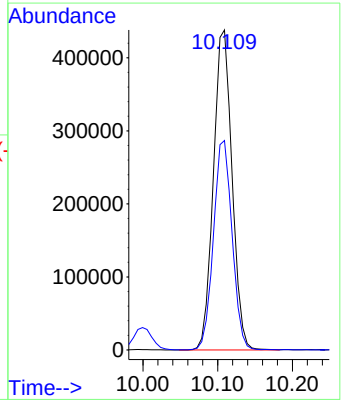


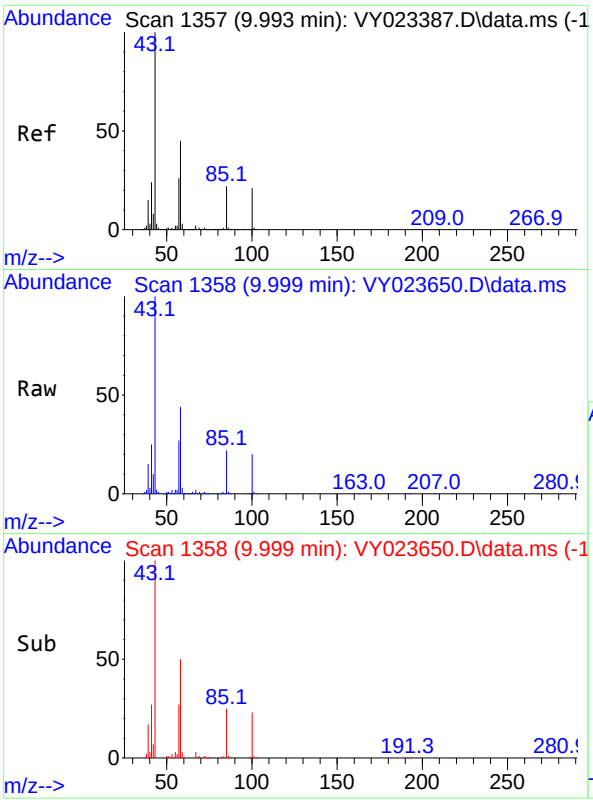


#50
Toluene-d8
Concen: 48.574 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 98 Resp: 759194

Ion	Ratio	Lower	Upper
98	100		
100	65.6	53.0	79.4

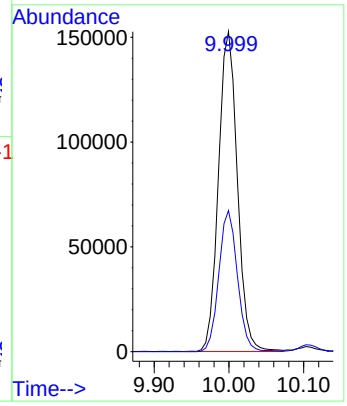




#51
4-Methyl-2-Pentanone
Concen: 118.552 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 43 Resp: 26885

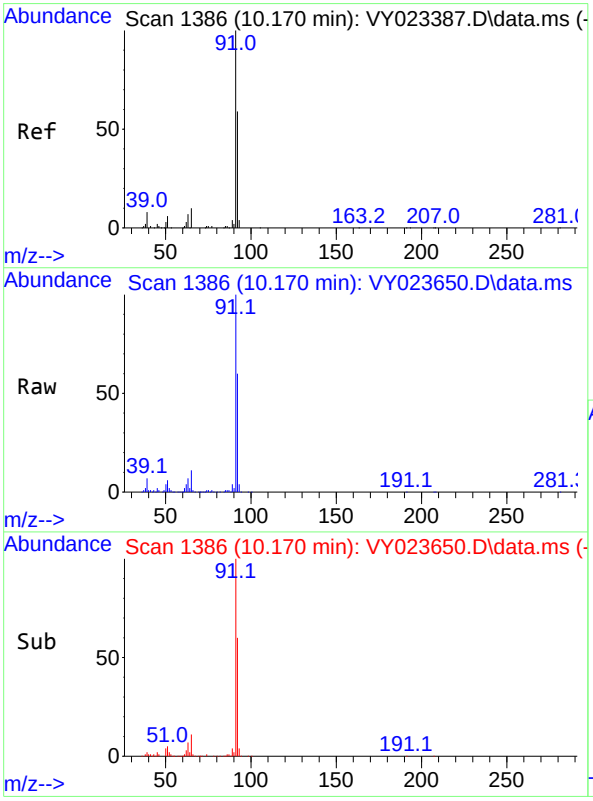
Ion	Ratio	Lower	Upper
43	100		
58	43.6	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

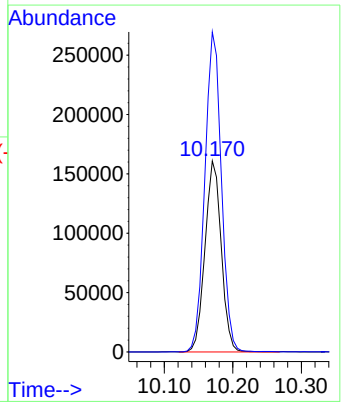
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

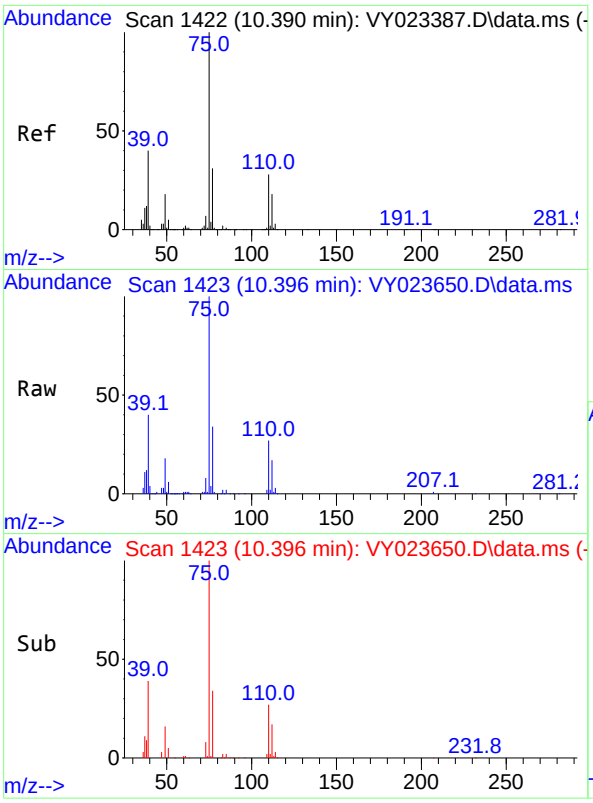


#52
Toluene
Concen: 23.288 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 92 Resp: 266066

Ion	Ratio	Lower	Upper
92	100		
91	169.7	136.4	204.6

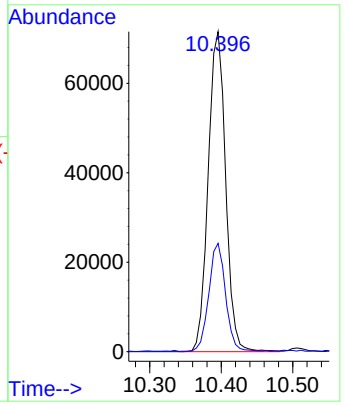




#53
t-1,3-Dichloropropene
Concen: 22.519 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 75 Resp: 12119

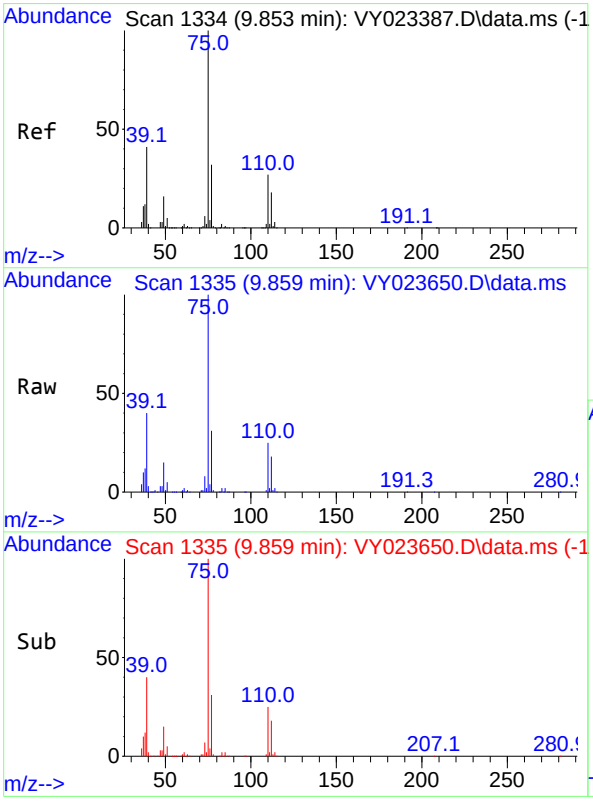
Ion	Ratio	Lower	Upper
75	100		
77	33.7	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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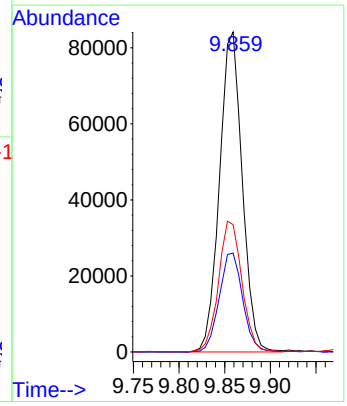
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

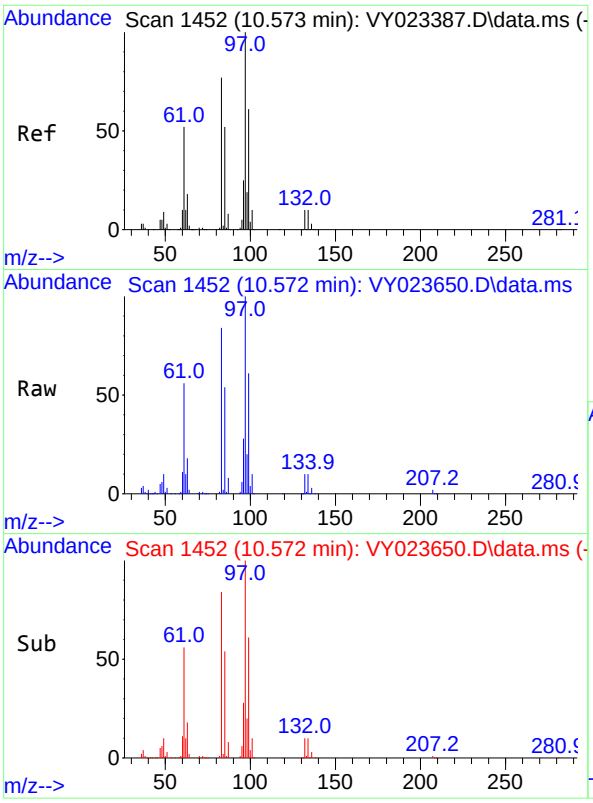


#54
cis-1,3-Dichloropropene
Concen: 22.933 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 75 Resp: 145667

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.4	38.0
39	39.7	32.8	49.2

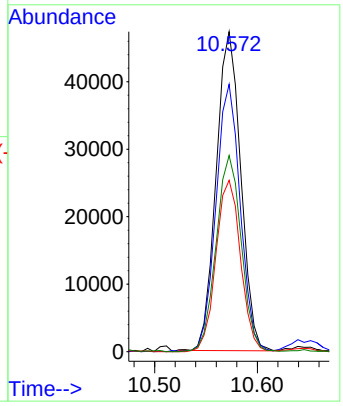




#55
1,1,2-Trichloroethane
Concen: 23.709 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 97 Resp: 7835

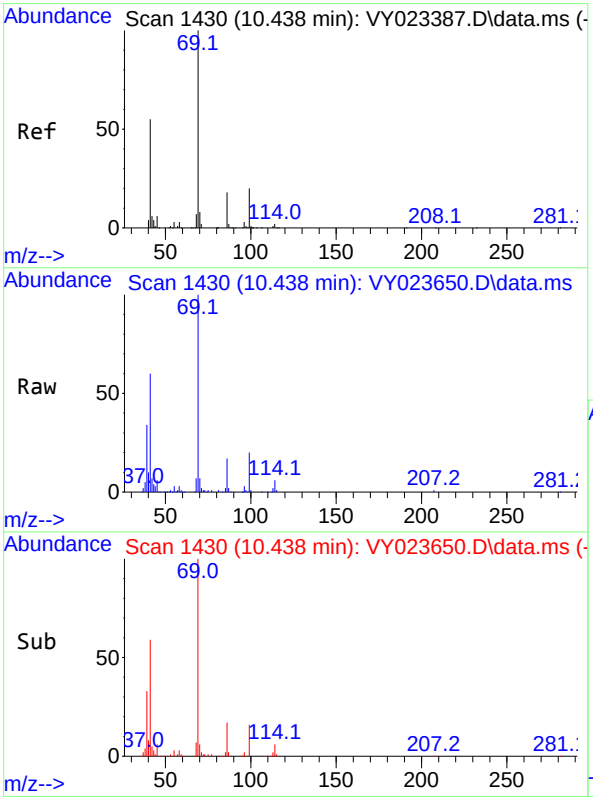
Ion	Ratio	Lower	Upper
97	100		
83	83.8	61.8	92.6
85	53.8	41.3	61.9
99	61.6	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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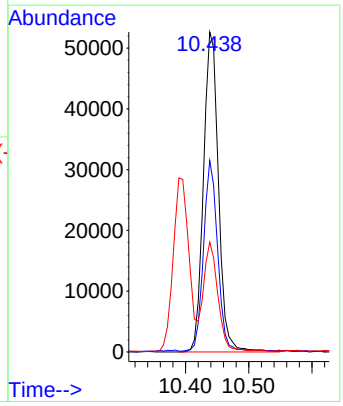
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

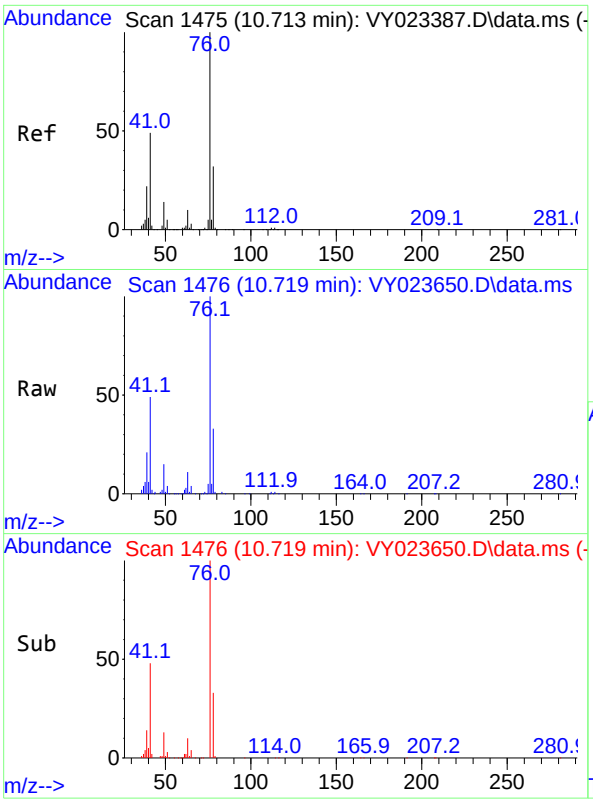


#56
Ethyl methacrylate
Concen: 22.865 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 69 Resp: 87167

Ion	Ratio	Lower	Upper
69	100		
41	55.9	44.6	67.0
39	31.4	27.0	40.4

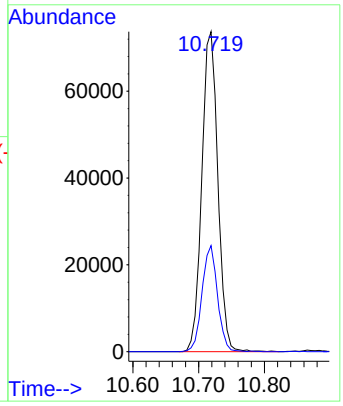




#57
1,3-Dichloropropane
Concen: 23.839 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 76 Resp: 12484

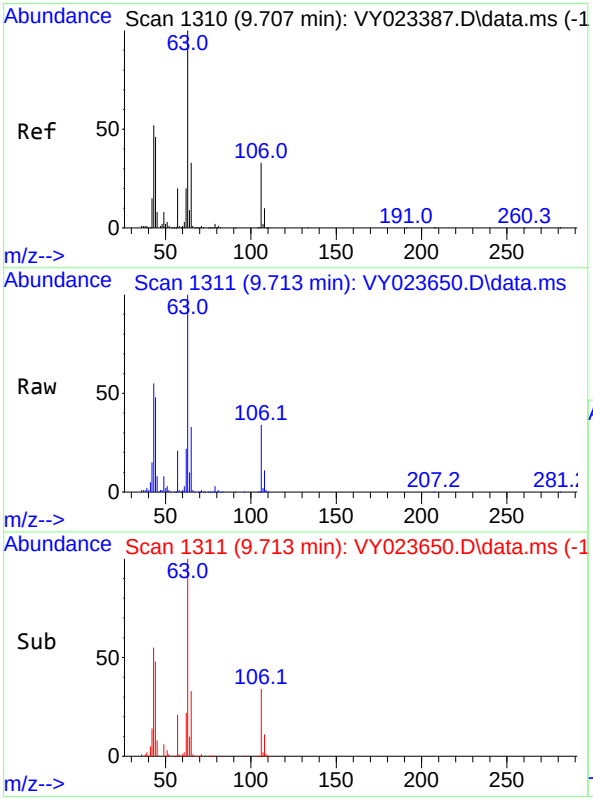
Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

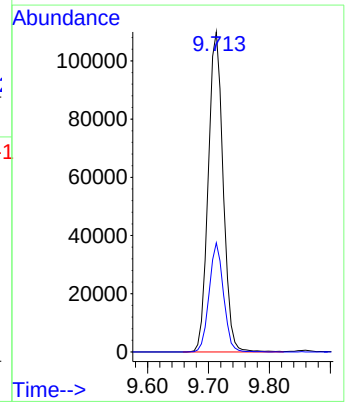
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

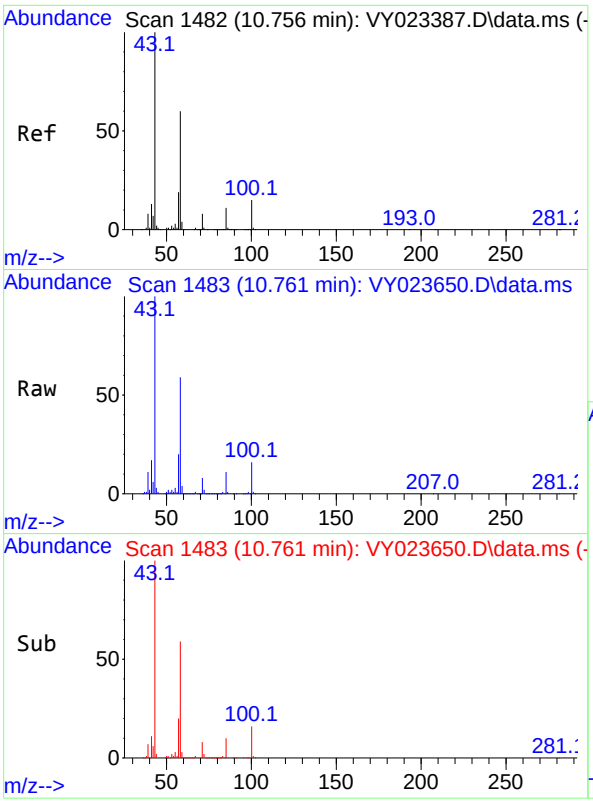


#58
2-Chloroethyl Vinyl ether
Concen: 109.425 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 63 Resp: 186872

Ion	Ratio	Lower	Upper
63	100		
106	32.8	26.6	39.8

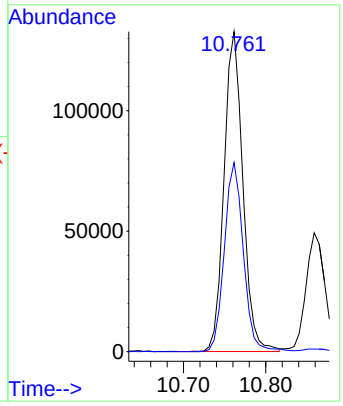




#59
2-Hexanone
Concen: 129.786 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 43 Resp: 21034

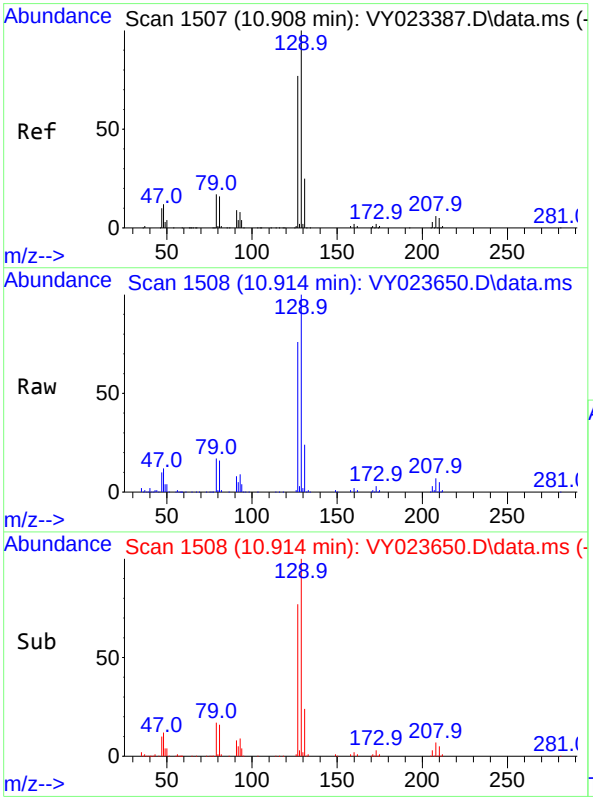
Ion	Ratio	Lower	Upper
43	100		
58	59.9	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

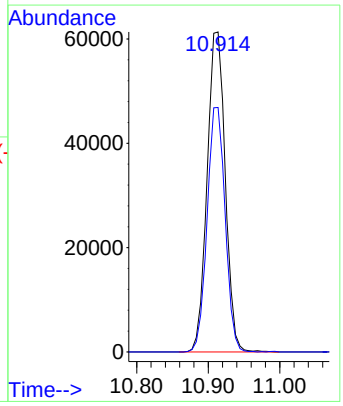
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

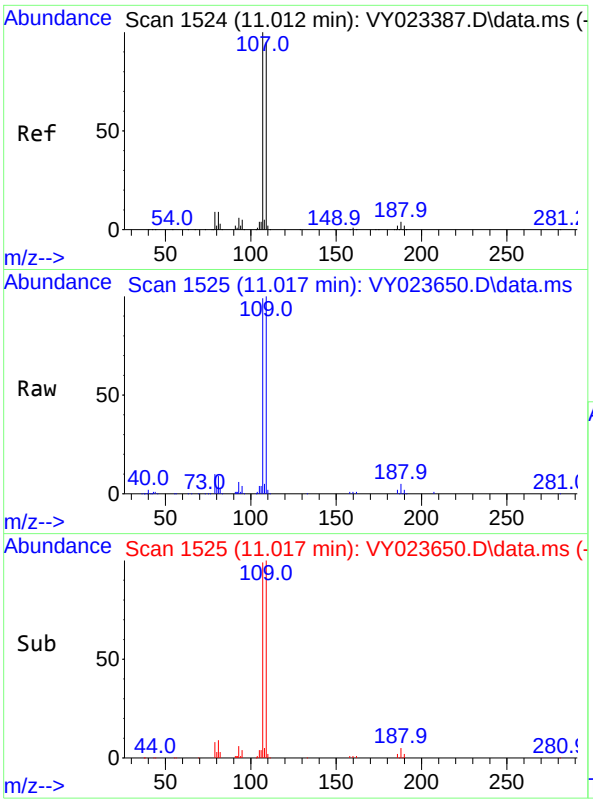


#60
Dibromochloromethane
Concen: 23.340 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:129 Resp: 108144

Ion	Ratio	Lower	Upper
129	100		
127	75.8	38.6	115.7

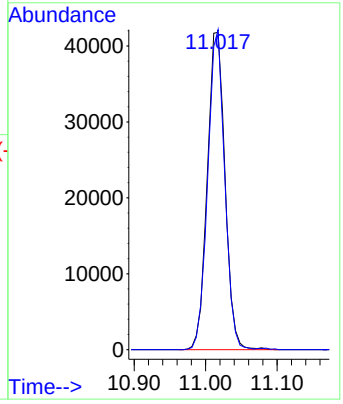




#61
1,2-Dibromoethane
Concen: 22.807 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:107 Resp: 7188

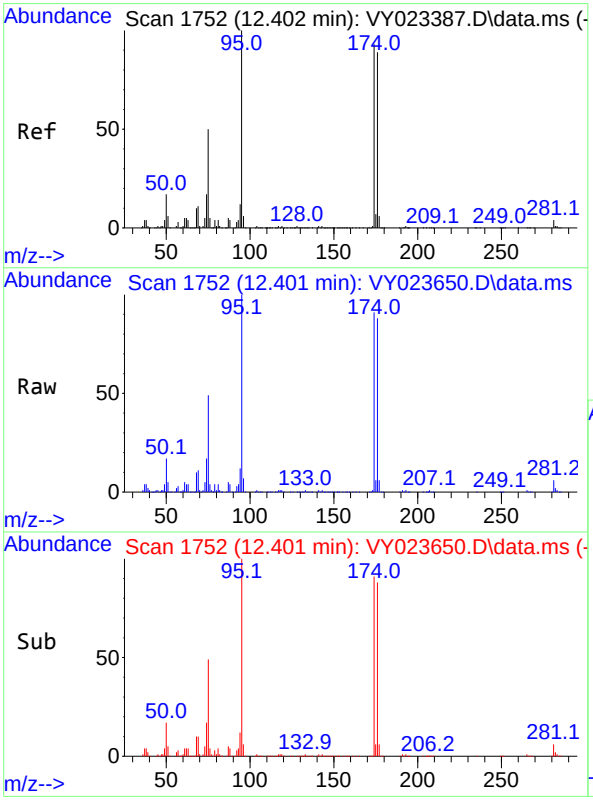
Ion	Ratio	Lower	Upper
107	100		
109	96.2	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

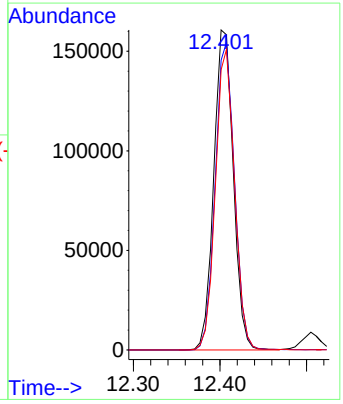
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

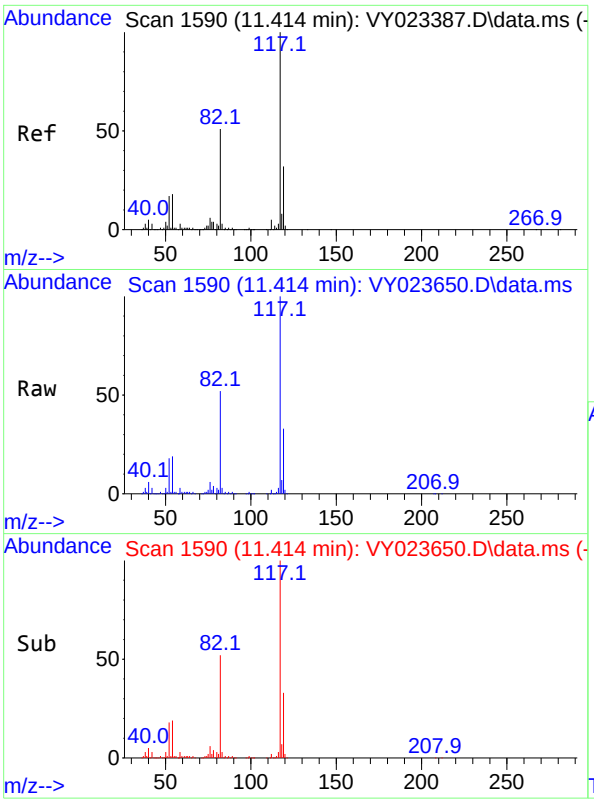


#62
4-Bromofluorobenzene
Concen: 48.746 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 95 Resp: 251534

Ion	Ratio	Lower	Upper
95	100		
174	94.9	0.0	192.8
176	92.0	0.0	187.6

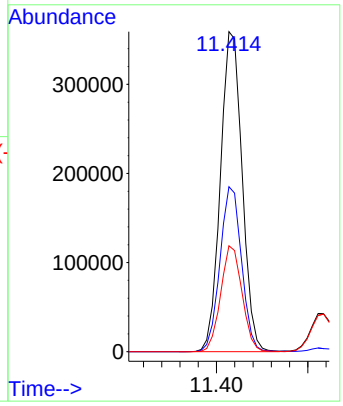




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:117 Resp: 59278

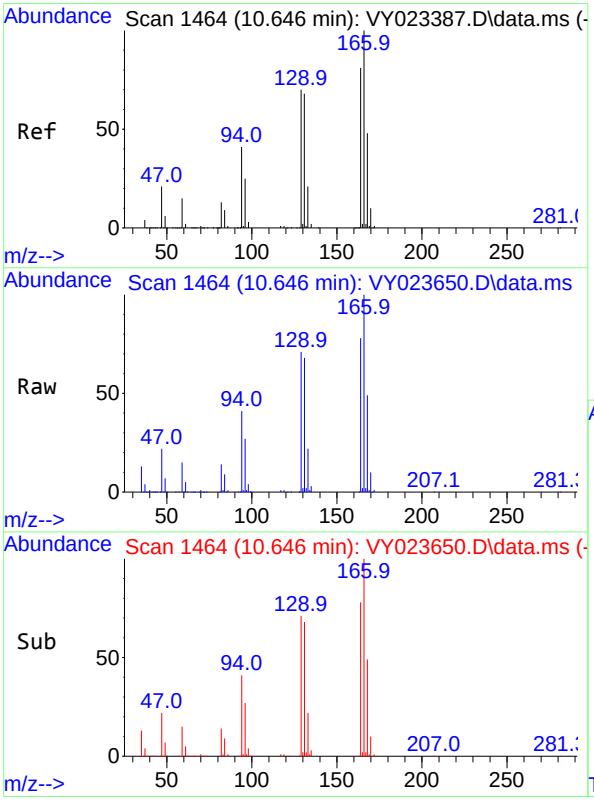
Ion	Ratio	Lower	Upper
117	100		
82	51.5	41.0	61.4
119	33.1	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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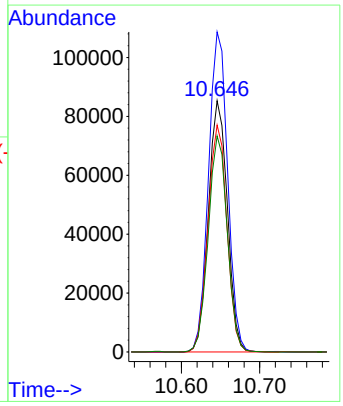
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

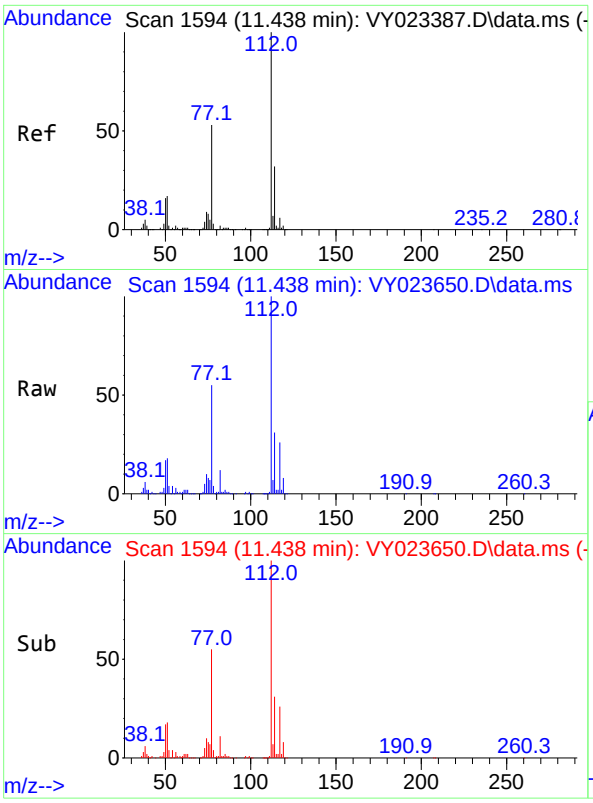


#64
Tetrachloroethene
Concen: 23.570 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:164 Resp: 144266

Ion	Ratio	Lower	Upper
164	100		
166	127.4	99.4	149.0
129	90.3	69.4	104.2
131	86.0	67.5	101.3

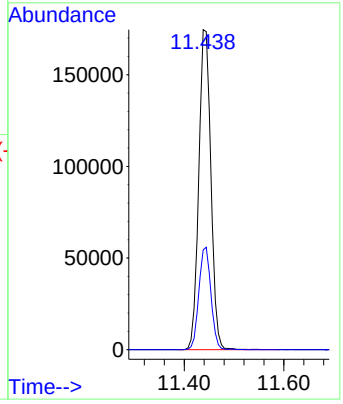




#65
Chlorobenzene
Concen: 22.816 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:112 Resp: 29416

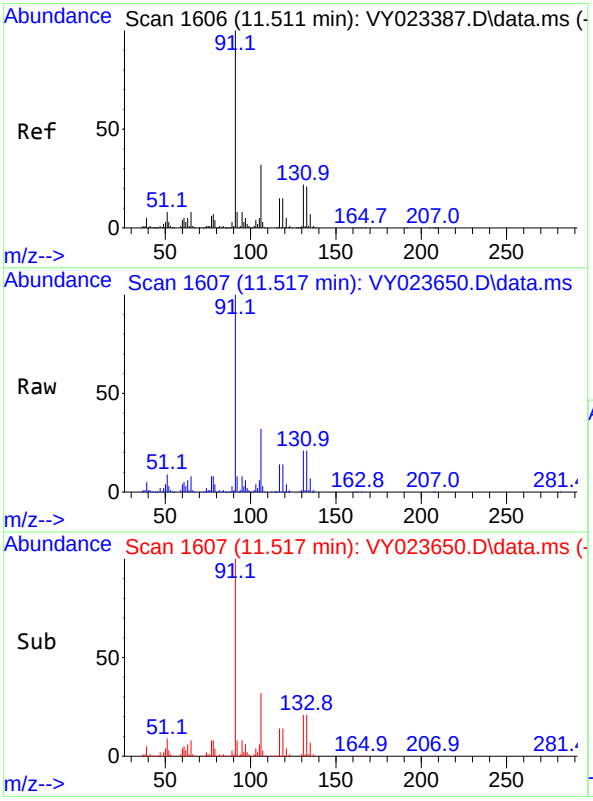
Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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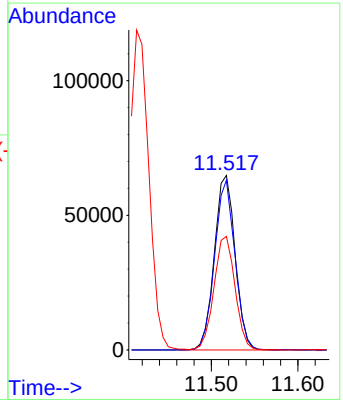
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

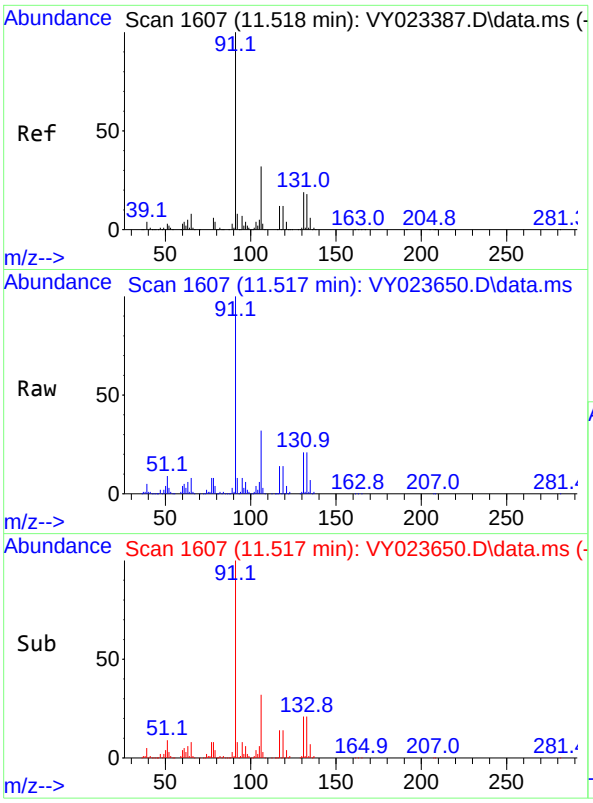


#66
1,1,1,2-Tetrachloroethane
Concen: 23.481 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:131 Resp: 107880

Ion	Ratio	Lower	Upper
131	100		
133	95.7	48.4	145.2
119	66.2	32.4	97.2

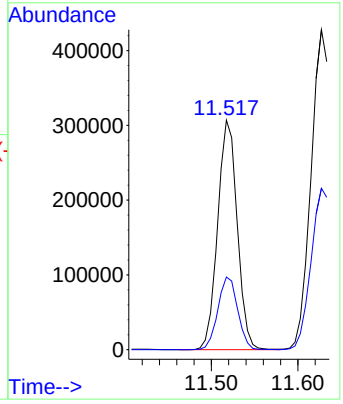




#67
Ethyl Benzene
Concen: 23.064 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 91 Resp: 4813

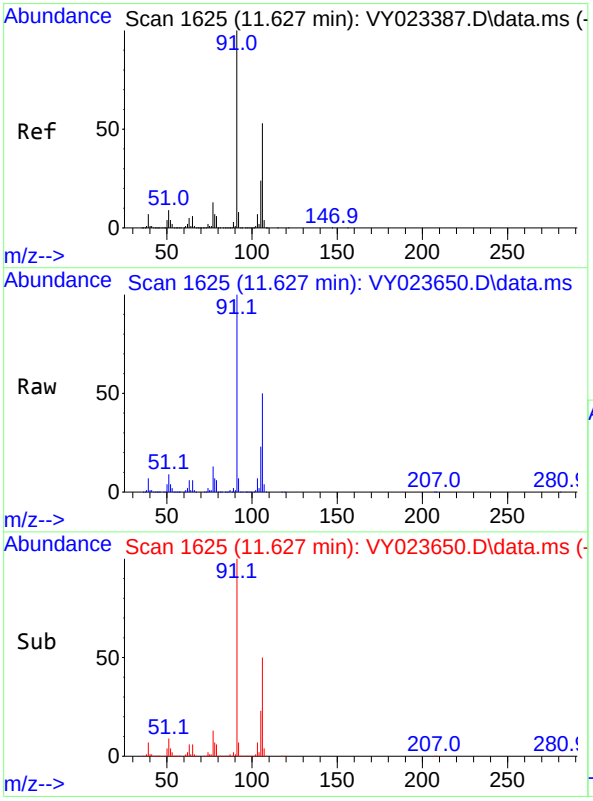
Ion	Ratio	Lower	Upper
91	100		
106	31.6	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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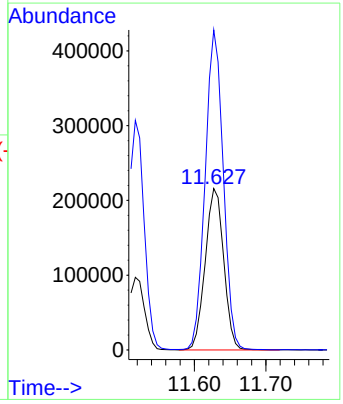
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

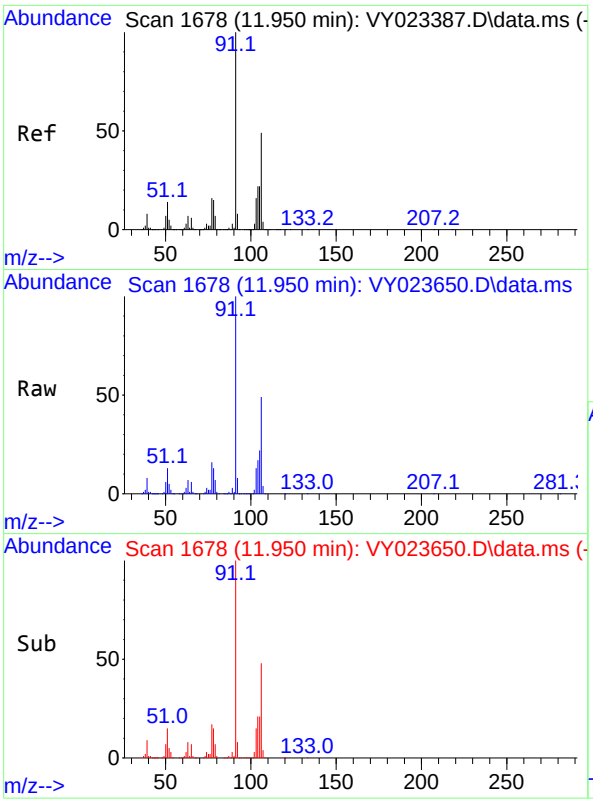


#68
m/p-Xylenes
Concen: 46.274 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:106 Resp: 387351

Ion	Ratio	Lower	Upper
106	100		
91	193.8	152.6	229.0





#69
o-Xylene
Concen: 22.937 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

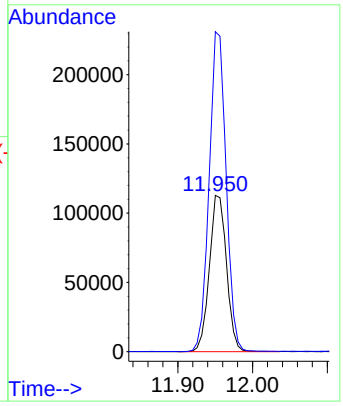
Tgt Ion:106 Resp: 18008

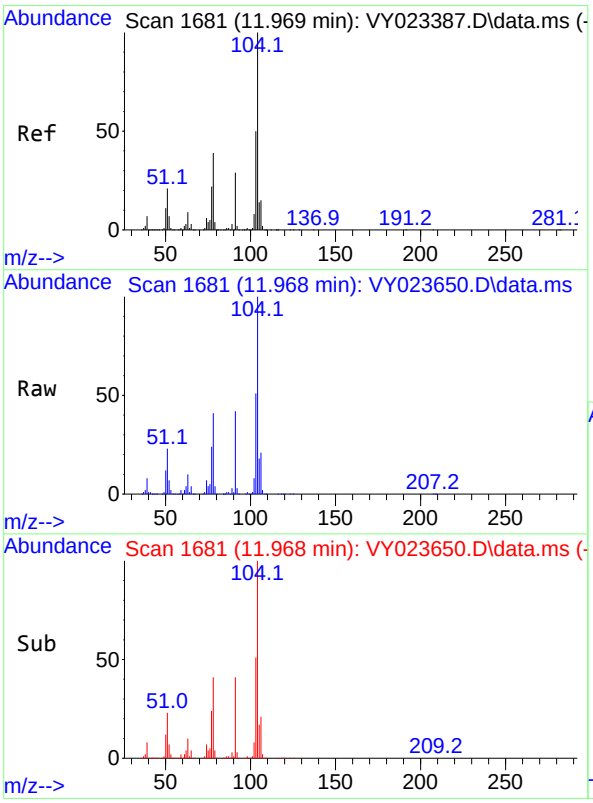
Ion	Ratio	Lower	Upper
106	100		
91	202.3	101.4	304.1

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

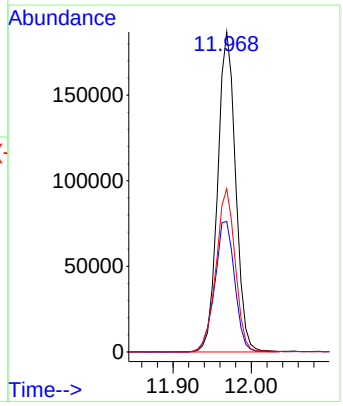


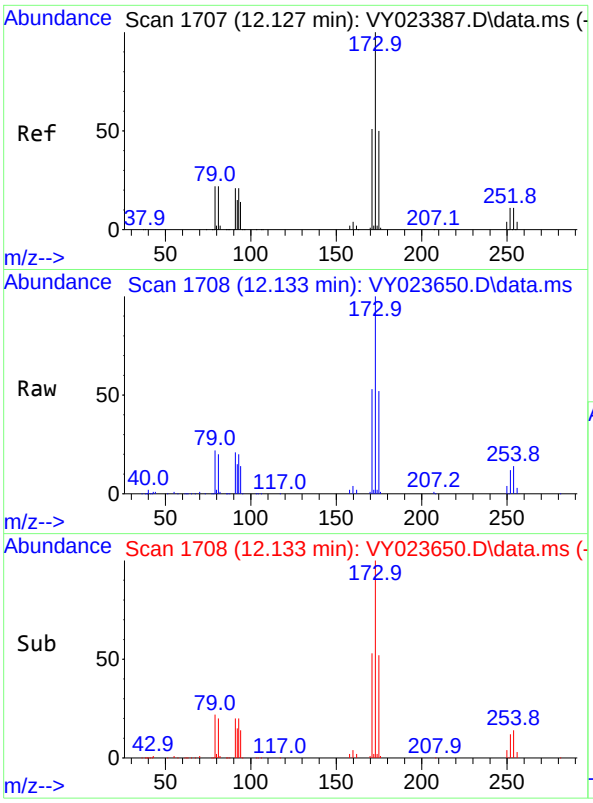


#70
Styrene
Concen: 23.037 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:104 Resp: 297438

Ion	Ratio	Lower	Upper
104	100		
78	45.5	36.1	54.1
103	54.7	43.2	64.8

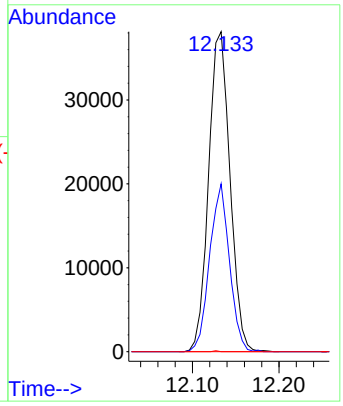




#71
Bromoform
Concen: 22.919 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:173 Resp: 6531

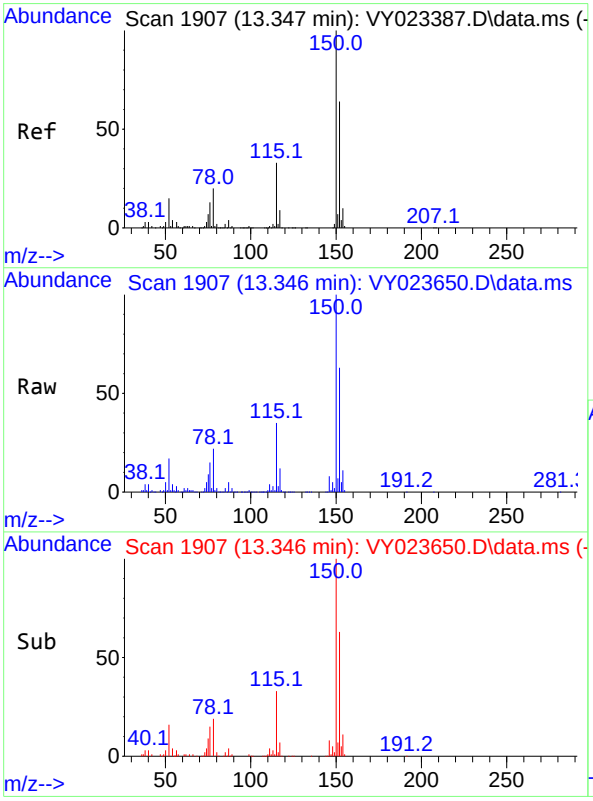
Ion	Ratio	Lower	Upper
173	100		
175	48.8	24.8	74.3
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

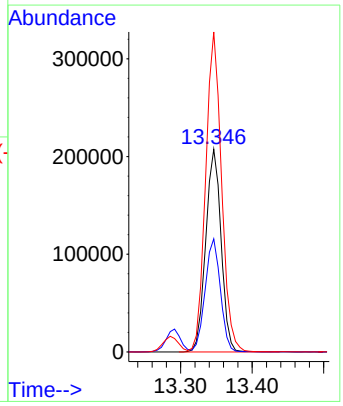
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

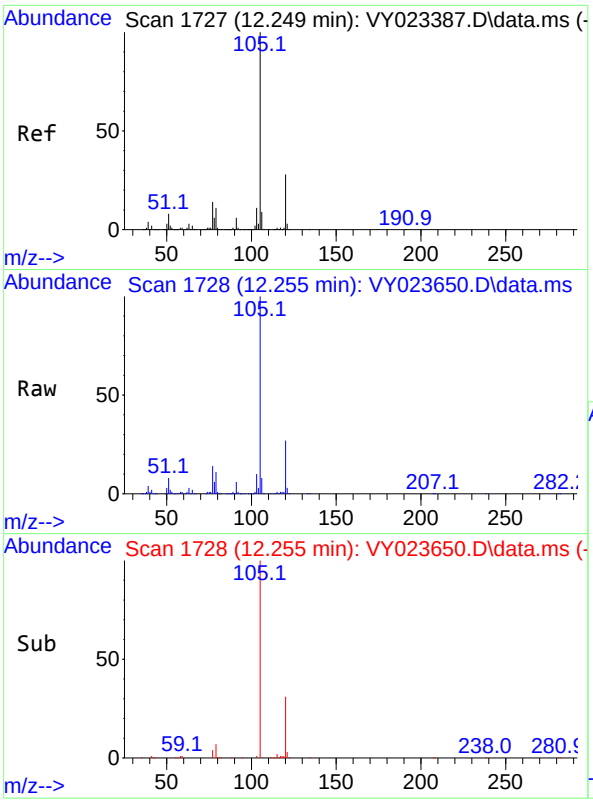


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:152 Resp: 309437

Ion	Ratio	Lower	Upper
152	100		
115	55.3	27.1	81.2
150	163.0	0.0	347.4

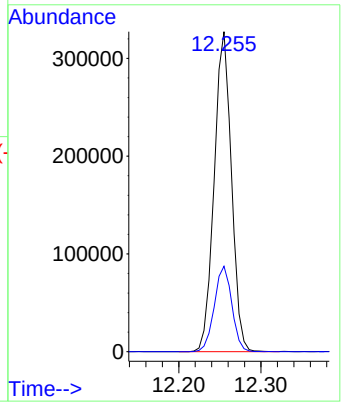




#73
Isopropylbenzene
Concen: 23.363 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:105 Resp: 4764

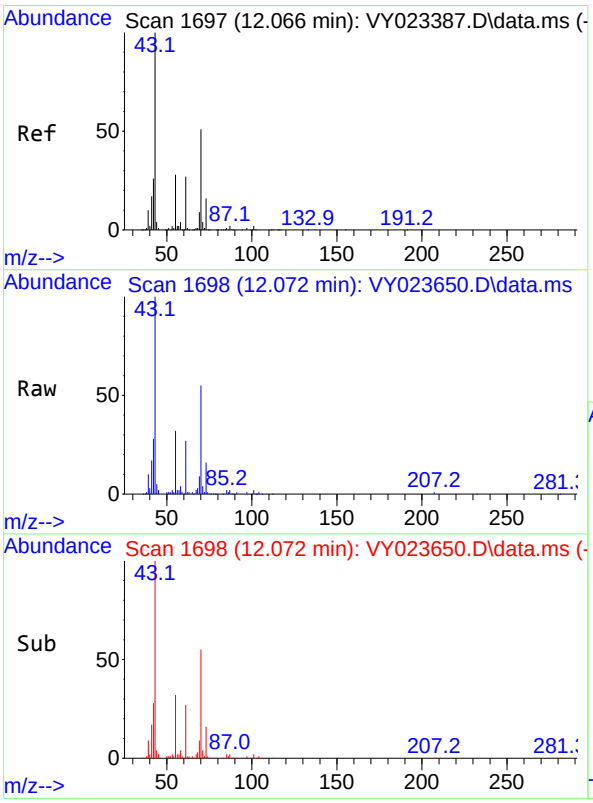
Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

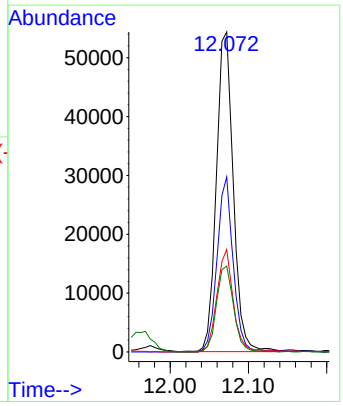
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

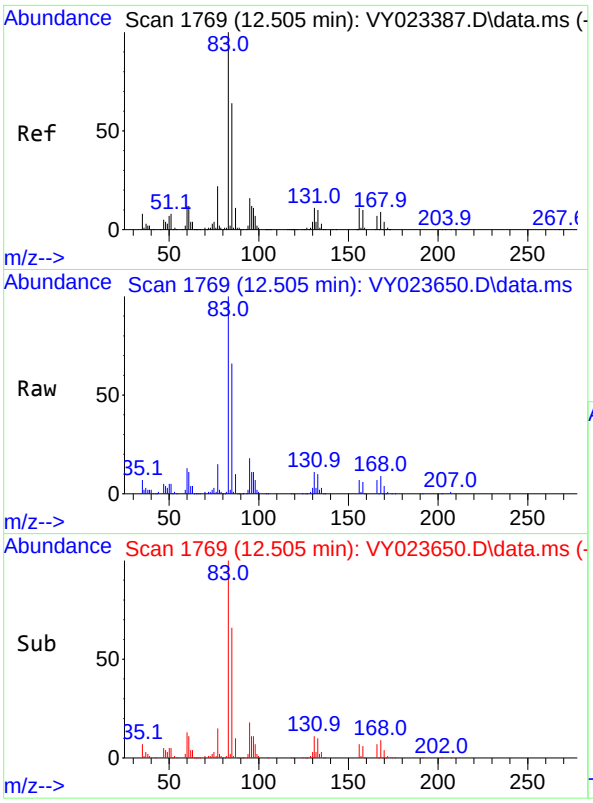


#74
N-amyl acetate
Concen: 22.299 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 43 Resp: 81675

Ion	Ratio	Lower	Upper
43	100		
70	52.4	41.1	61.7
55	31.0	23.0	34.6
61	27.1	21.4	32.2





#75
1,1,2,2-Tetrachloroethane
Concen: 23.274 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

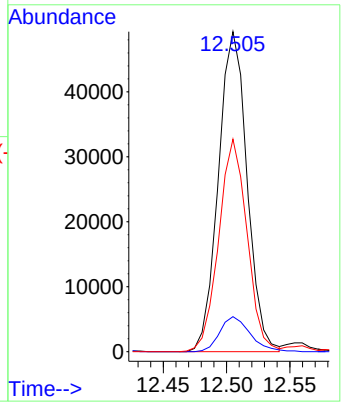
Tgt Ion: 83 Resp: 7762

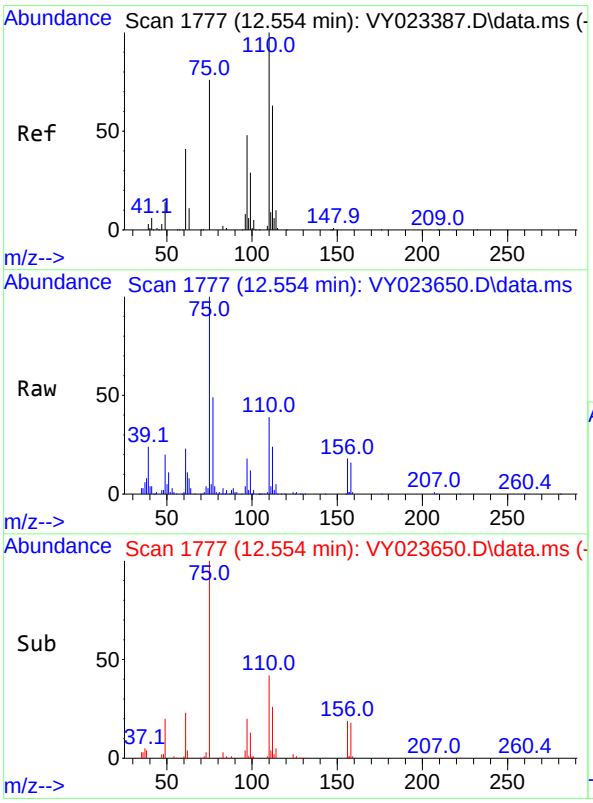
Ion	Ratio	Lower	Upper
83	100		
131	11.6	5.9	17.6
85	65.6	31.8	95.3

Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

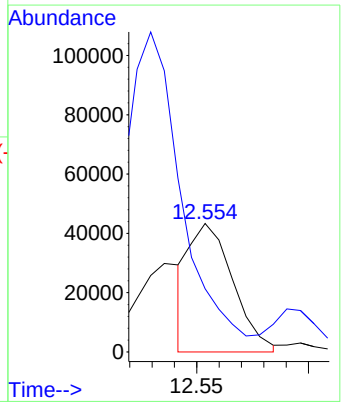


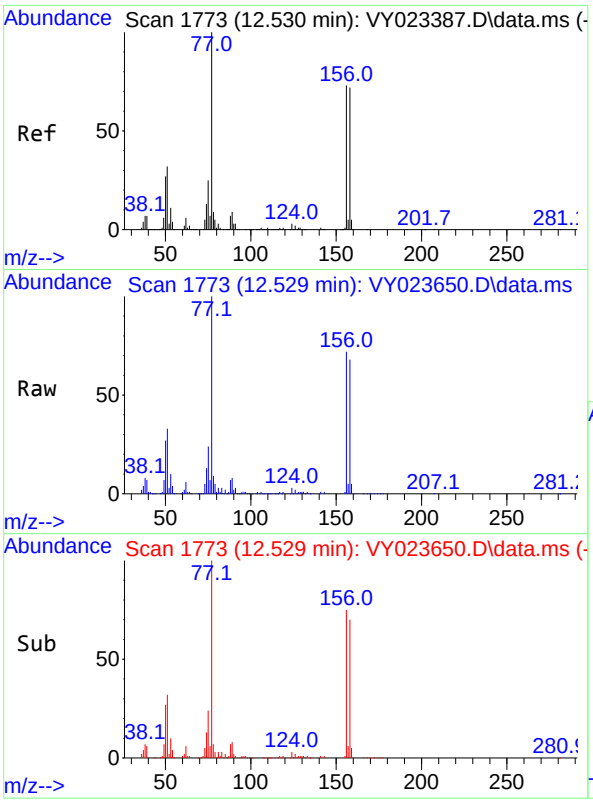


#76
1,2,3-Trichloropropane
Concen: 21.682 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 75 Resp: 59193

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

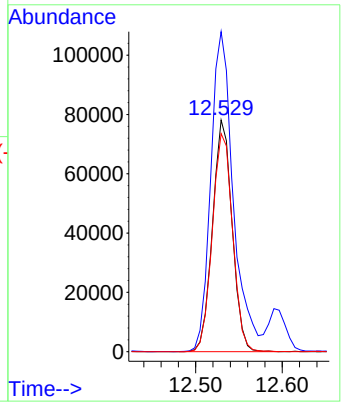




#77
Bromobenzene
Concen: 22.637 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:156 Resp: 12272

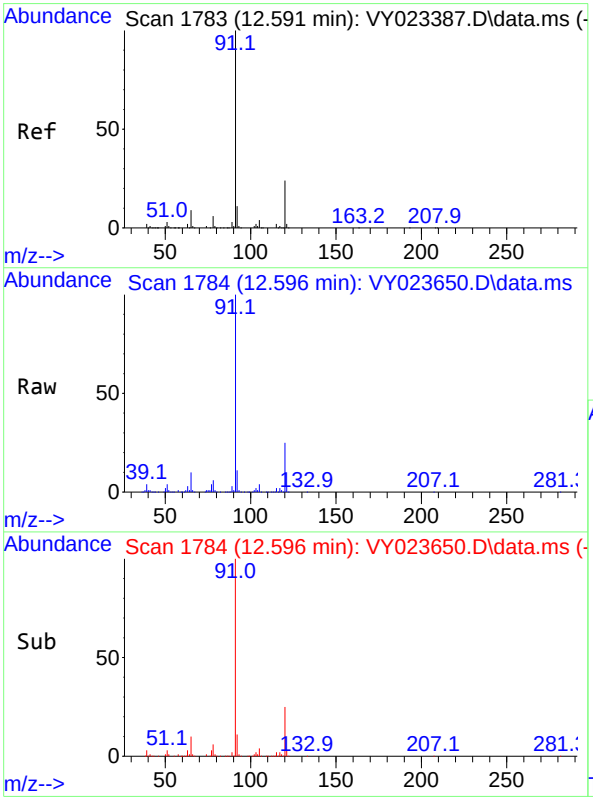
Ion	Ratio	Lower	Upper
156	100		
77	157.9	76.8	230.5
158	97.6	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
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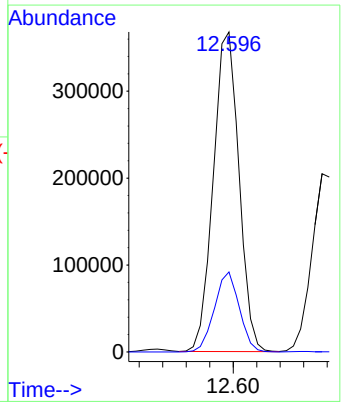
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

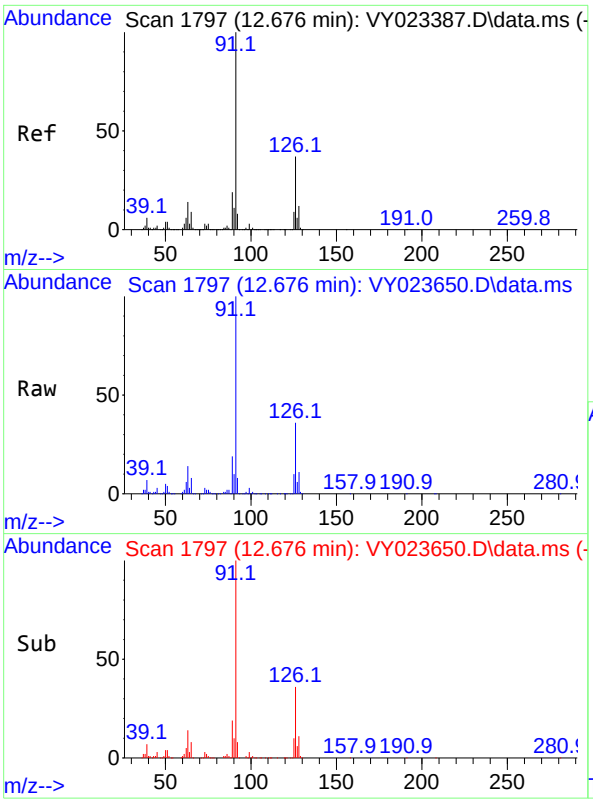


#78
n-propylbenzene
Concen: 23.617 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 91 Resp: 557326

Ion	Ratio	Lower	Upper
91	100		
120	24.2	12.3	36.8

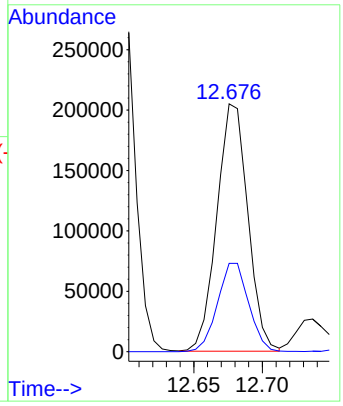




#79
2-Chlorotoluene
Concen: 23.323 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 91 Resp: 32230

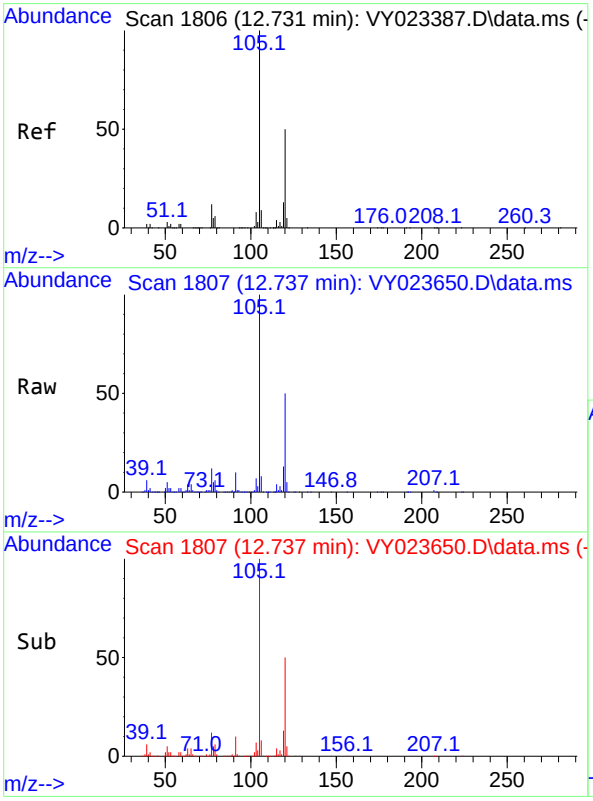
Ion	Ratio	Lower	Upper
91	100		
126	36.0	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

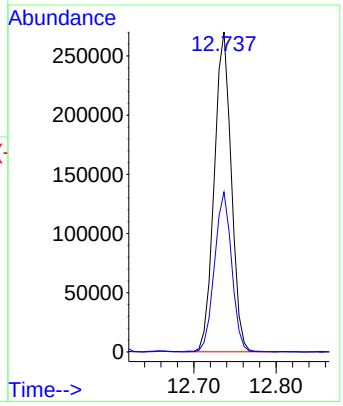
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

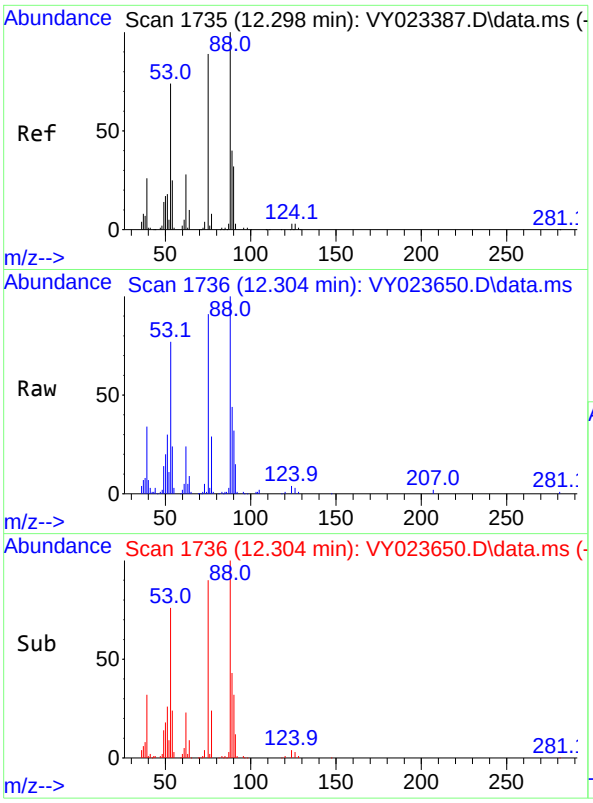


#80
1,3,5-Trimethylbenzene
Concen: 23.573 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:105 Resp: 388450

Ion	Ratio	Lower	Upper
105	100		
120	50.4	25.4	76.4

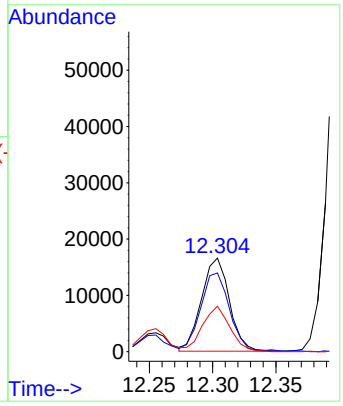




#81
trans-1,4-Dichloro-2-butene
Concen: 22.799 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 75 Resp: 2538

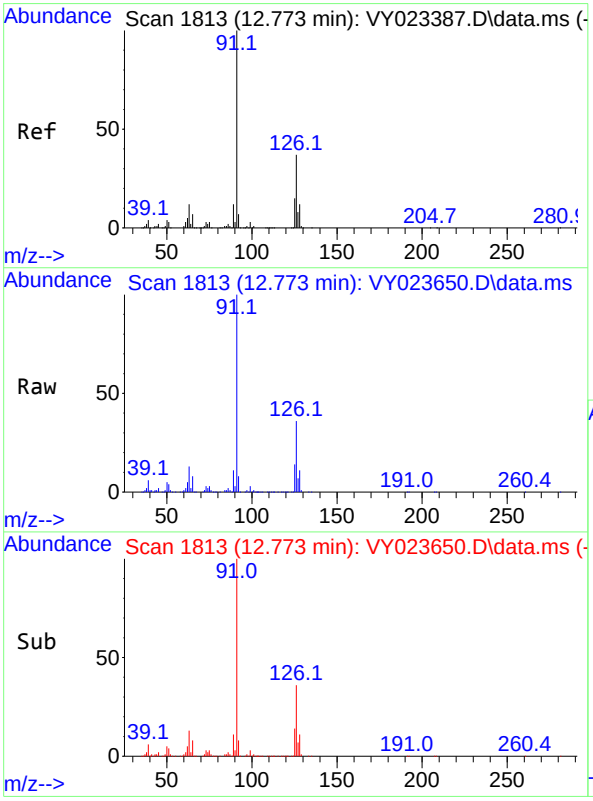
Ion	Ratio	Lower	Upper
75	100		
53	85.6	68.6	102.8
89	48.3	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

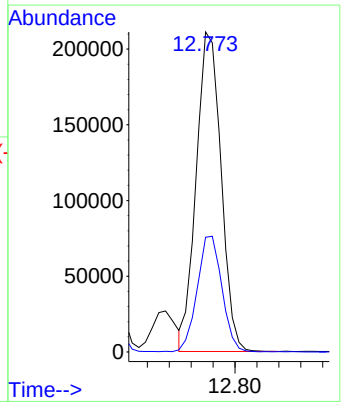
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

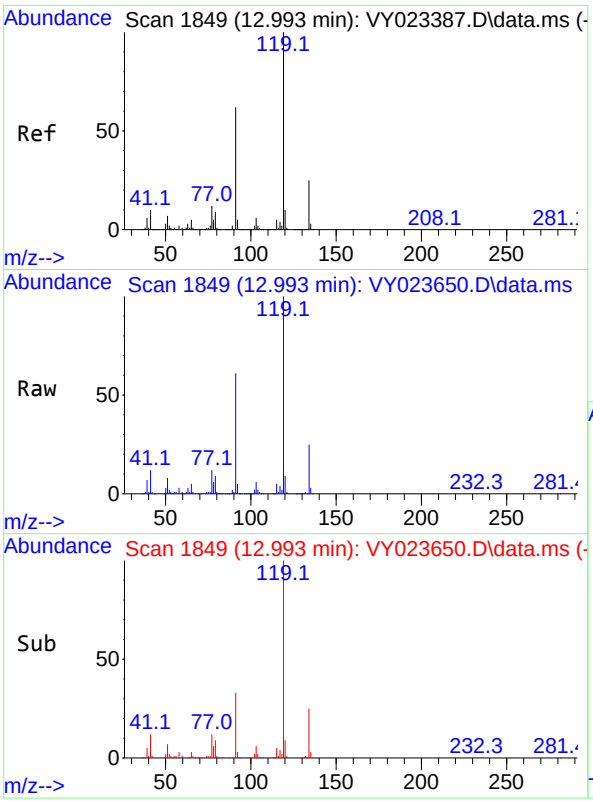


#82
4-Chlorotoluene
Concen: 23.322 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 91 Resp: 331916

Ion	Ratio	Lower	Upper
91	100		
126	36.1	18.4	55.4

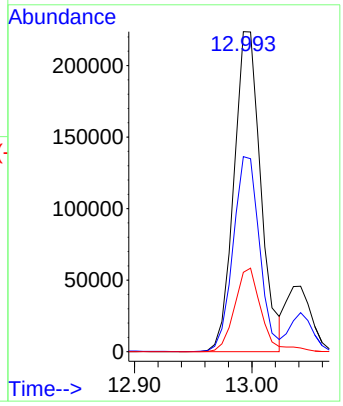




#83
tert-Butylbenzene
Concen: 23.368 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:119 Resp: 35553

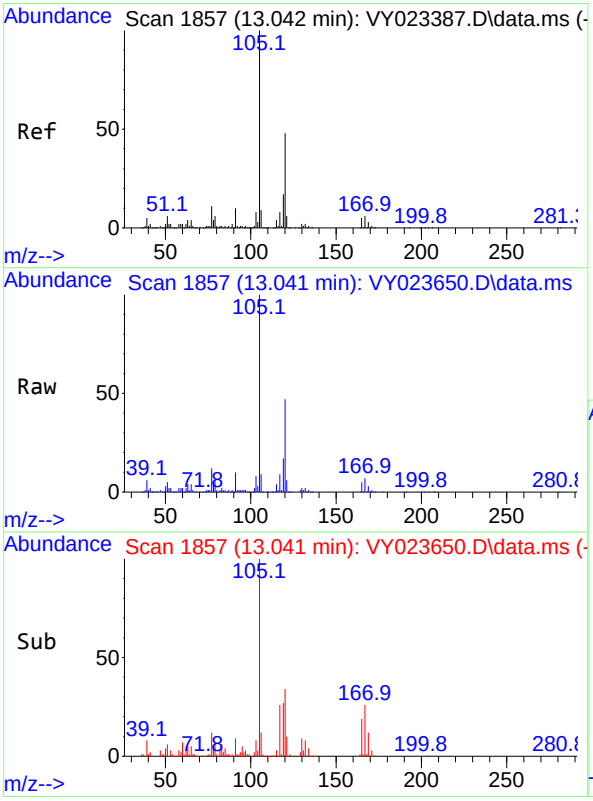
Ion	Ratio	Lower	Upper
119	100		
91	60.1	29.9	89.8
134	26.0	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

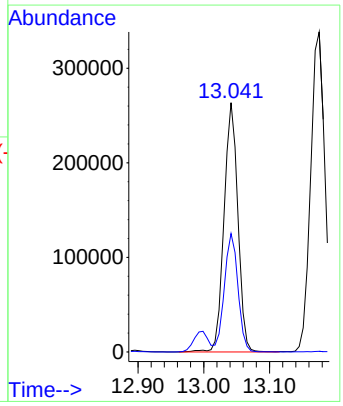
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

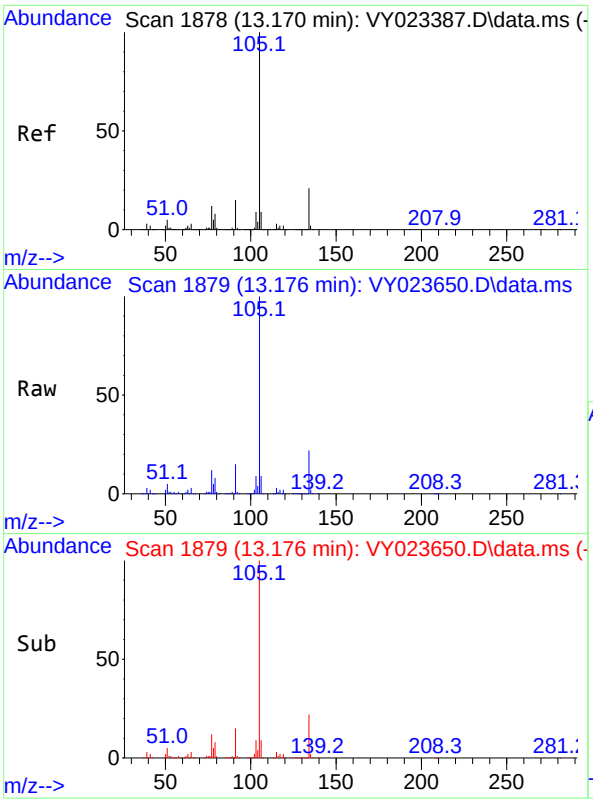


#84
1,2,4-Trimethylbenzene
Concen: 23.500 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:105 Resp: 386466

Ion	Ratio	Lower	Upper
105	100		
120	46.9	23.8	71.2

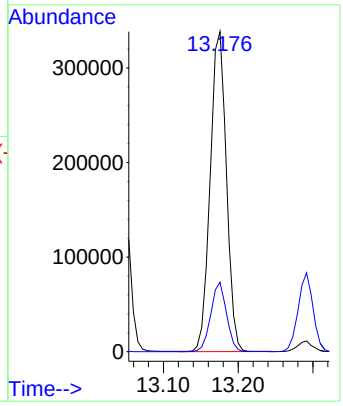




#85
sec-Butylbenzene
Concen: 23.333 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:105 Resp: 50925

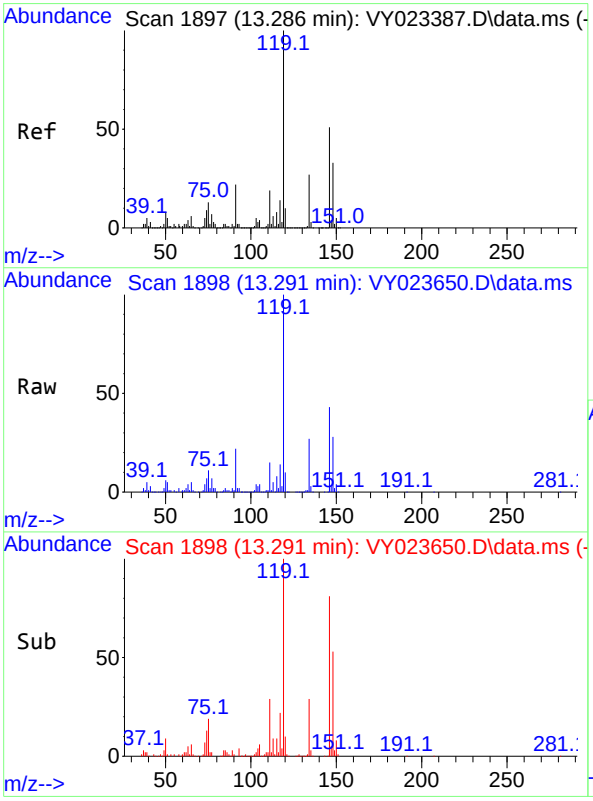
Ion	Ratio	Lower	Upper
105	100		
134	21.1	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

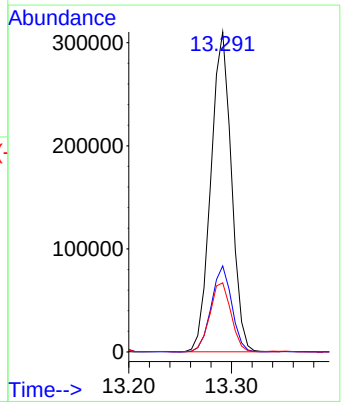
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

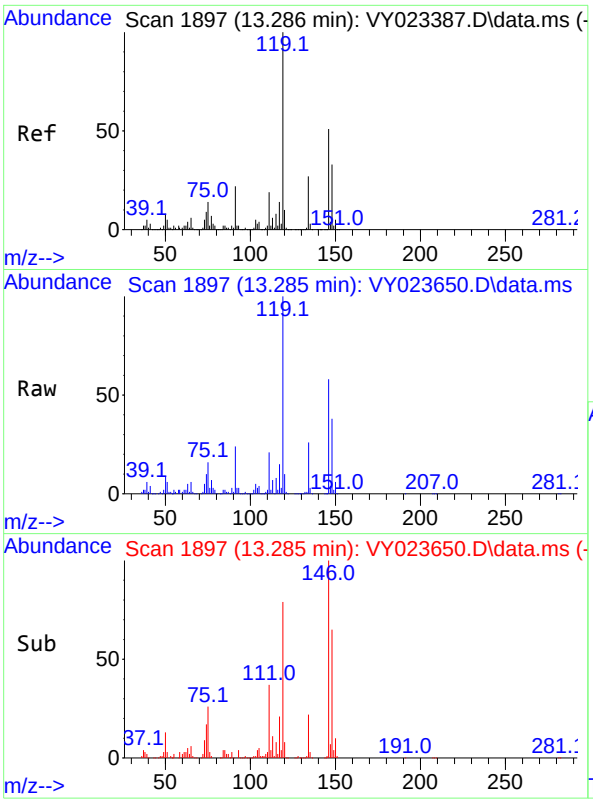


#86
p-Isopropyltoluene
Concen: 23.094 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:119 Resp: 429151

Ion	Ratio	Lower	Upper
119	100		
134	26.8	13.6	40.7
91	22.3	10.9	32.9

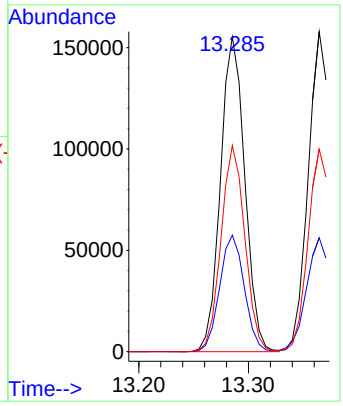




#87
1,3-Dichlorobenzene
Concen: 22.666 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:146 Resp: 23928

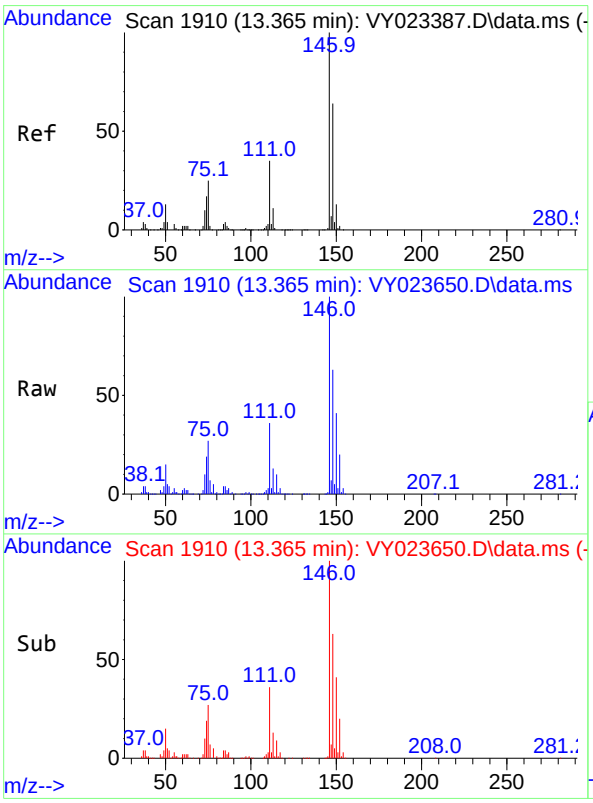
Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.7	56.1
148	64.3	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

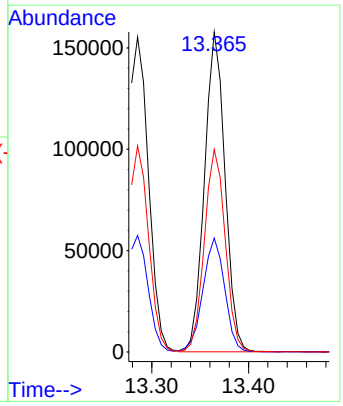
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

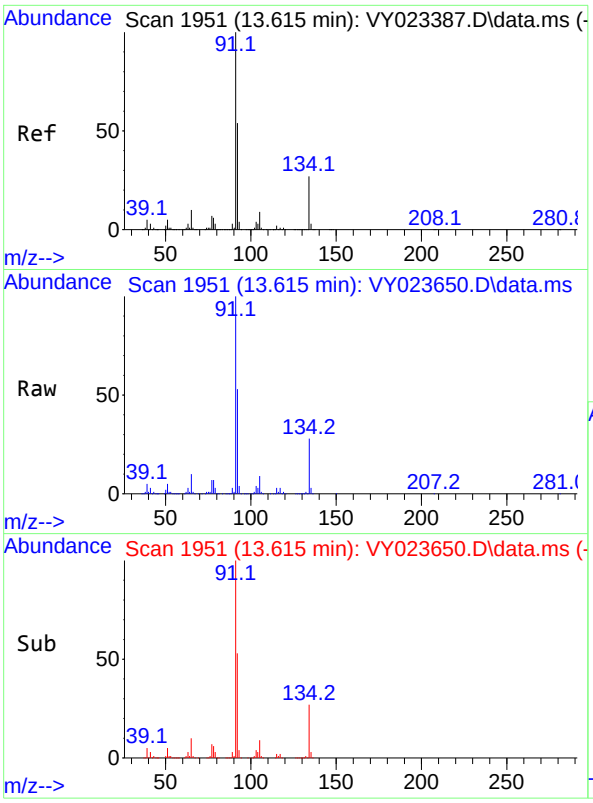


#88
1,4-Dichlorobenzene
Concen: 22.354 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:146 Resp: 233078

Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.0	54.0
148	64.5	31.9	95.7

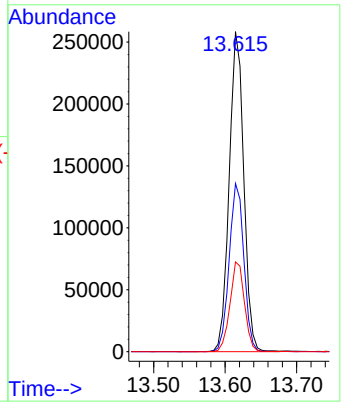




#89
n-Butylbenzene
Concen: 22.570 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 91 Resp: 36545

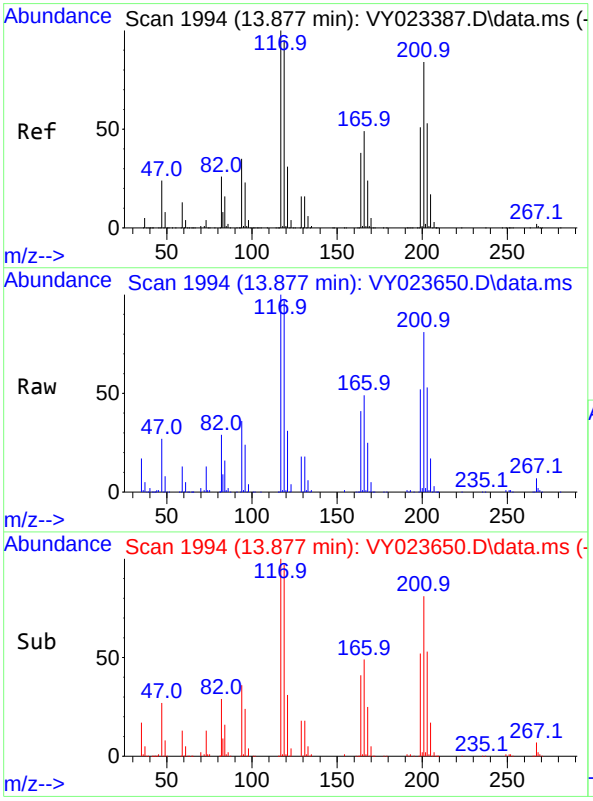
Ion	Ratio	Lower	Upper
91	100		
92	52.9	27.0	80.8
134	28.0	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

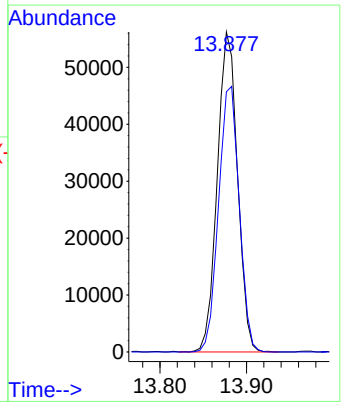
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

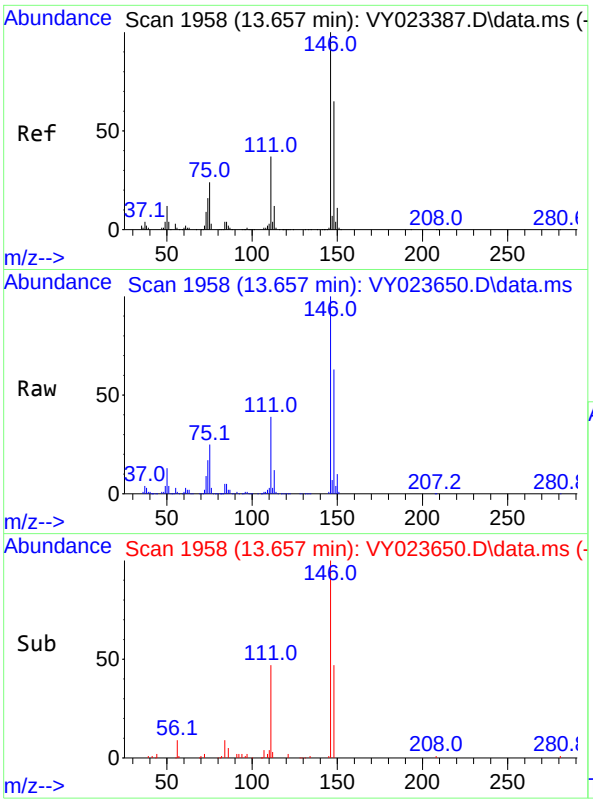


#90
Hexachloroethane
Concen: 22.812 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:117 Resp: 91176

Ion	Ratio	Lower	Upper
117	100		
201	84.8	43.8	131.4

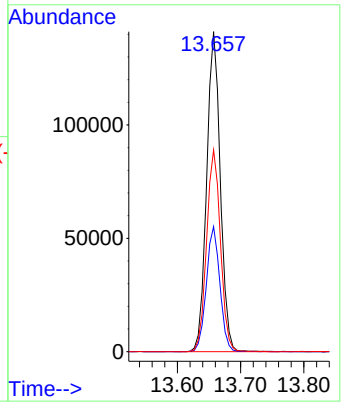




#91
1,2-Dichlorobenzene
Concen: 22.894 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:146 Resp: 21189

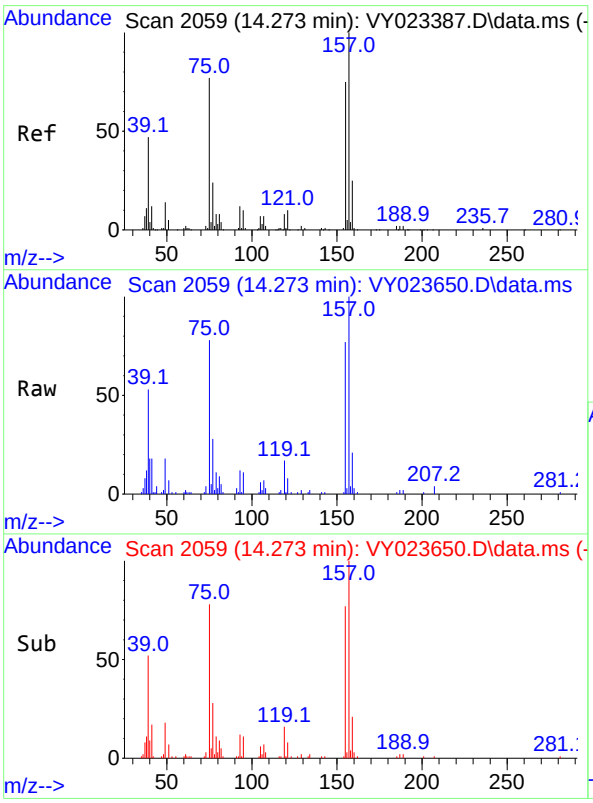
Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.0	57.0
148	64.0	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

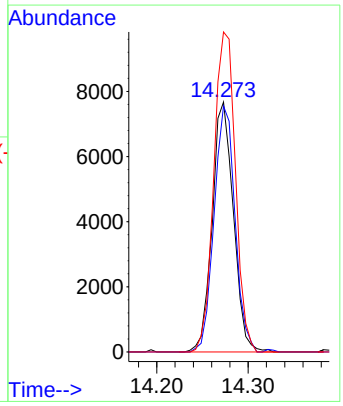
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

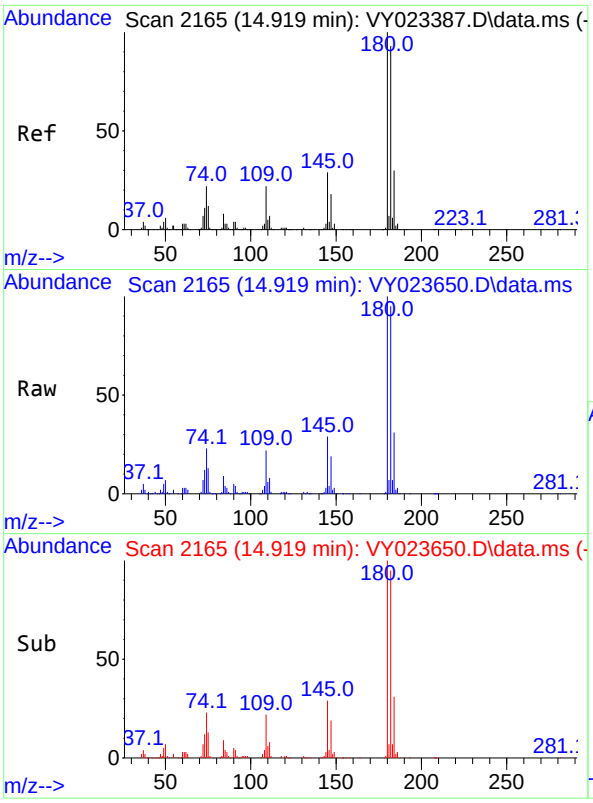


#92
1,2-Dibromo-3-Chloropropane
Concen: 22.549 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion: 75 Resp: 12340

Ion	Ratio	Lower	Upper
75	100		
155	97.3	50.0	150.0
157	130.9	63.8	191.5

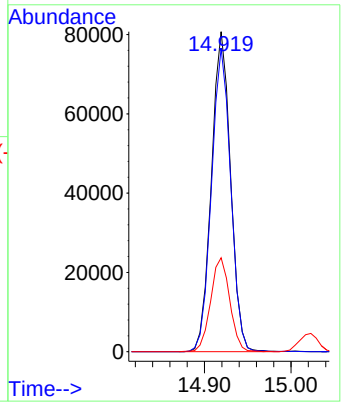




#93
1,2,4-Trichlorobenzene
Concen: 21.405 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:180 Resp: 12350

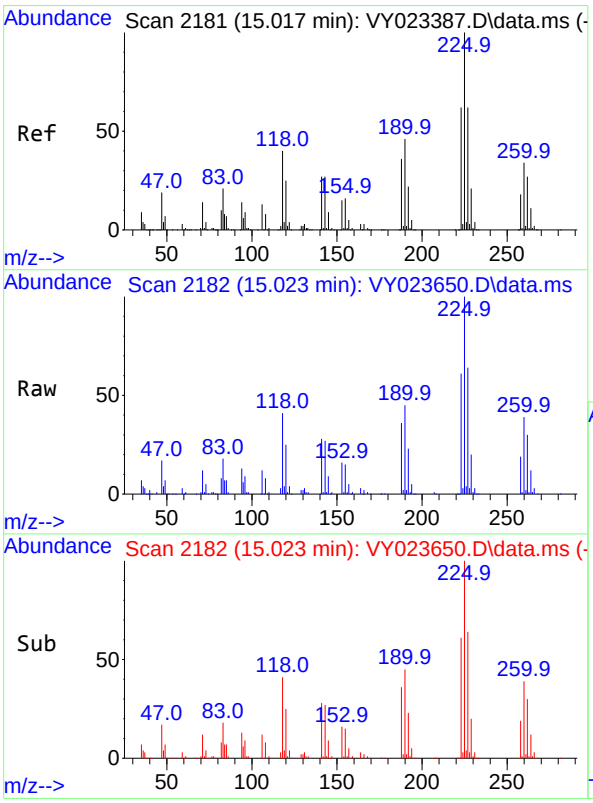
Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.9	143.6
145	29.5	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

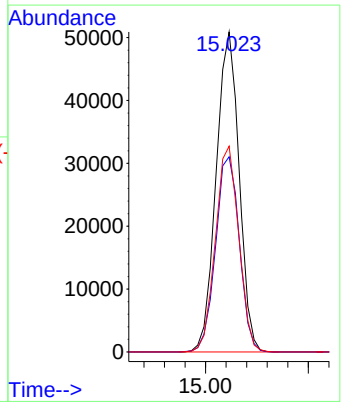
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025

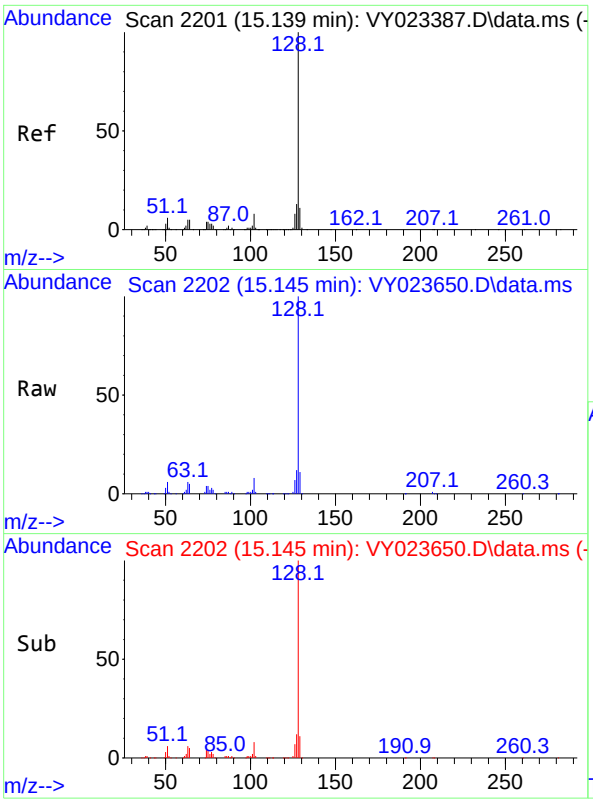


#94
Hexachlorobutadiene
Concen: 21.899 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:225 Resp: 78767

Ion	Ratio	Lower	Upper
225	100		
223	63.1	30.8	92.3
227	65.4	31.9	95.7

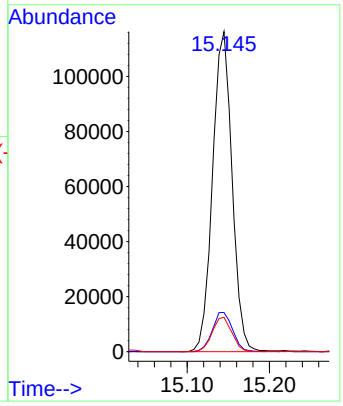




#95
Naphthalene
Concen: 20.829 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:128 Resp: 19138

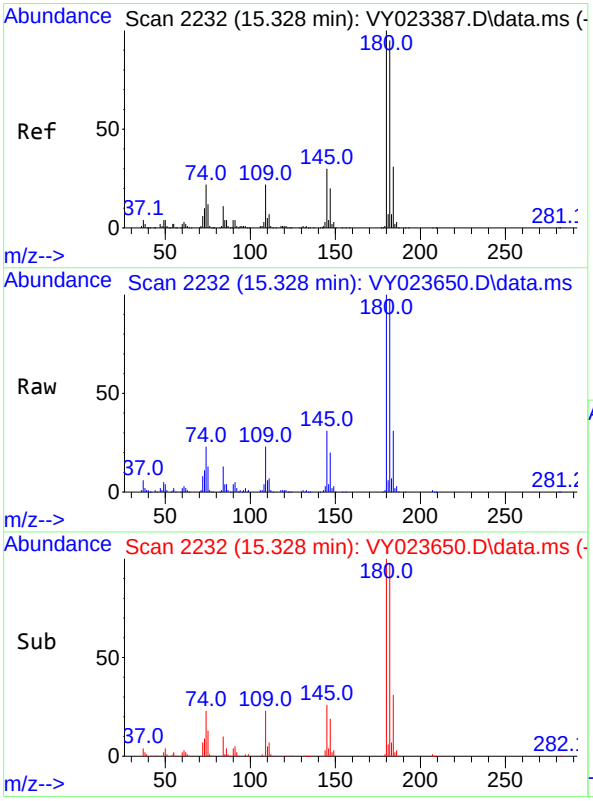
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	10.9	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1103SBSD01

Manual Integrations
APPROVED

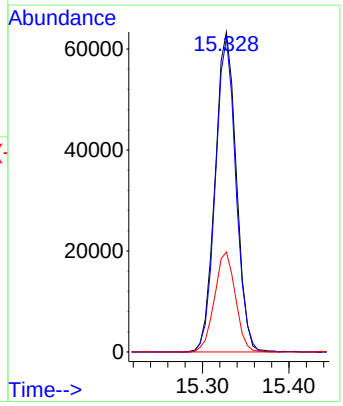
Reviewed By :Semsettin Yesilyurt 11/04/2025
Supervised By :Mahesh Dadoda 11/04/2025



#96
1,2,3-Trichlorobenzene
Concen: 21.475 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023650.D
Acq: 03 Nov 2025 11:30

Tgt Ion:180 Resp: 107330

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.9	143.8
145	30.9	15.3	45.9



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

Manual Integration Report

Sequence:	VN102325	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN088078.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	1,4-Dichlorobenzene	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	1,4-Dioxane	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	2-Butanone	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	2-Hexanone	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	Allyl chloride	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	Ethyl Acetate	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	Ethyl methacrylate	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	Methyl methacrylate	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC001	VN088078.D	trans-1,2-Dichloroethene	JOHN	10/24/2025 8:16:14 AM	MMDadoda	10/27/2025 7:55:28 AM	Peak Integrated by Software
VSTDICC005	VN088079.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:20 AM	MMDadoda	10/27/2025 7:55:32 AM	Peak Integrated by Software
VSTDICC005	VN088079.D	N-amyl acetate	JOHN	10/24/2025 8:16:20 AM	MMDadoda	10/27/2025 7:55:32 AM	Peak Integrated by Software
VSTDICC005	VN088079.D	trans-1,4-Dichloro-2-butene	JOHN	10/24/2025 8:16:20 AM	MMDadoda	10/27/2025 7:55:32 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN102325	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC020	VN088080.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:24 AM	MMDadoda	10/27/2025 7:55:36 AM	Peak Integrated by Software
VSTDICC020	VN088080.D	N-amyl acetate	JOHN	10/24/2025 8:16:24 AM	MMDadoda	10/27/2025 7:55:36 AM	Peak Integrated by Software
VSTDICCC050	VN088081.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:29 AM	MMDadoda	10/27/2025 7:55:41 AM	Peak Integrated by Software
VSTDICCC050	VN088081.D	N-amyl acetate	JOHN	10/24/2025 8:16:29 AM	MMDadoda	10/27/2025 7:55:41 AM	Peak Integrated by Software
VSTDICC100	VN088082.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:34 AM	MMDadoda	10/27/2025 7:55:57 AM	Peak Integrated by Software
VSTDICC150	VN088083.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:39 AM	MMDadoda	10/27/2025 7:55:46 AM	Peak Integrated by Software
VSTDICV050	VN088085.D	1,2,3-Trichloropropane	JOHN	10/24/2025 8:16:44 AM	MMDadoda	10/27/2025 7:55:49 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VN103125	Instrument	MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN088173.D	1,2,3-Trichloropropane	Amit	11/3/2025 10:53:07 AM	sam	11/3/2025 10:58:34 AM	Peak Integrated by Software
VSTDCCC050	VN088173.D	N-amyl acetate	Amit	11/3/2025 10:53:07 AM	sam	11/3/2025 10:58:34 AM	Peak Integrated by Software
VN1031MBS01	VN088176.D	1,2,3-Trichloropropane	Amit	11/3/2025 10:53:11 AM	sam	11/3/2025 10:58:42 AM	Peak Integrated by Software
VN1031MBS01	VN088176.D	N-amyl acetate	Amit	11/3/2025 10:53:11 AM	sam	11/3/2025 10:58:42 AM	Peak Integrated by Software
Q3447-01	VN088183.D	Acetone	Amit	11/3/2025 10:54:05 AM	sam	11/3/2025 10:58:56 AM	Peak Integrated by Software
Q3447-05	VN088185.D	2-Butanone	Amit	11/3/2025 10:53:49 AM	sam	11/3/2025 10:59:31 AM	Peak Integrated by Software
VSTDCCC050	VN088195.D	1,2,3-Trichloropropane	Amit	11/3/2025 10:53:54 AM	sam	11/3/2025 10:59:04 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY100725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VY023384.D	1,2,3-Trichloropropane	sam	10/10/2025 2:59:48 AM	MMdadoda	10/10/2025 4:37:28 AM	Peak Integrated by Software
VSTDICC005	VY023384.D	2-Chloroethyl Vinyl ether	sam	10/10/2025 2:59:48 AM	MMdadoda	10/10/2025 4:37:28 AM	Peak Integrated by Software
VSTDICC005	VY023384.D	Methacrylonitrile	sam	10/10/2025 2:59:48 AM	MMdadoda	10/10/2025 4:37:28 AM	Peak Integrated by Software
VSTDICC010	VY023385.D	1,2,3-Trichloropropane	sam	10/10/2025 2:59:52 AM	MMdadoda	10/10/2025 4:37:33 AM	Peak Integrated by Software
VSTDICC010	VY023385.D	2-Chloroethyl Vinyl ether	sam	10/10/2025 2:59:52 AM	MMdadoda	10/10/2025 4:37:33 AM	Peak Integrated by Software
VSTDICC020	VY023386.D	1,2,3-Trichloropropane	sam	10/10/2025 2:59:56 AM	MMdadoda	10/10/2025 4:37:37 AM	Peak Integrated by Software
VSTDICC020	VY023386.D	2-Chloroethyl Vinyl ether	sam	10/10/2025 2:59:56 AM	MMdadoda	10/10/2025 4:37:37 AM	Peak Integrated by Software
VSTDICC020	VY023386.D	Methacrylonitrile	sam	10/10/2025 2:59:56 AM	MMdadoda	10/10/2025 4:37:37 AM	Peak Integrated by Software
VSTDICCC050	VY023387.D	1,2,3-Trichloropropane	sam	10/10/2025 3:00:01 AM	MMdadoda	10/10/2025 4:37:41 AM	Peak Integrated by Software
VSTDICC100	VY023388.D	1,2,3-Trichloropropane	sam	10/10/2025 3:00:05 AM	MMdadoda	10/10/2025 4:37:46 AM	Peak Integrated by Software
VSTDICC150	VY023389.D	1,2,3-Trichloropropane	sam	10/10/2025 3:00:09 AM	MMdadoda	10/10/2025 4:37:51 AM	Peak Integrated by Software
VSTDICV050	VY023391.D	1,2,3-Trichloropropane	sam	10/10/2025 3:00:14 AM	MMdadoda	10/10/2025 4:37:55 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VY100725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	Vy110325	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023647.D	1,2,3-Trichloropropane	sam	11/4/2025 7:17:25 AM	MMDadoda	11/4/2025 1:41:48 PM	Peak Integrated by Software
VY1103SBS01	VY023649.D	1,2,3-Trichloropropane	sam	11/4/2025 7:17:30 AM	MMDadoda	11/4/2025 1:41:51 PM	Peak Integrated by Software
VY1103SBS01	VY023649.D	Methacrylonitrile	sam	11/4/2025 7:17:30 AM	MMDadoda	11/4/2025 1:41:51 PM	Peak Integrated by Software
VY1103SBSD01	VY023650.D	1,2,3-Trichloropropane	sam	11/4/2025 7:17:35 AM	MMDadoda	11/4/2025 1:41:55 PM	Peak Integrated by Software
VSTDCCC050	VY023659.D	1,2,3-Trichloropropane	sam	11/4/2025 7:17:40 AM	MMDadoda	11/4/2025 1:41:58 PM	Peak Integrated by Software

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102325

Review By	John Carlone	Review On	10/24/2025 8:16:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 2:53:14 PM		
SubDirectory	VN102325	HP Acquire Method		HP Processing Method	82N102325W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135909
Initial Calibration Stds	VP135921,VP135922,VP135923,VP135924,VP135925,VP135926
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP135927
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088077.D	23 Oct 2025 09:09	JC\MD	Ok
2	VSTDICC001	VN088078.D	23 Oct 2025 09:42	JC\MD	Ok,M
3	VSTDICC005	VN088079.D	23 Oct 2025 10:38	JC\MD	Ok,M
4	VSTDICC020	VN088080.D	23 Oct 2025 10:59	JC\MD	Ok,M
5	VSTDICCC050	VN088081.D	23 Oct 2025 11:20	JC\MD	Ok,M
6	VSTDICC100	VN088082.D	23 Oct 2025 11:41	JC\MD	Ok,M
7	VSTDICC150	VN088083.D	23 Oct 2025 12:02	JC\MD	Ok,M
8	IBLK	VN088084.D	23 Oct 2025 12:23	JC\MD	Ok
9	VSTDICV050	VN088085.D	23 Oct 2025 14:54	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103125

Review By	Amit Patel	Review On	11/3/2025 10:49:01 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/3/2025 10:59:53 AM		
SubDirectory	VN103125	HP Acquire Method		HP Processing Method	82N102325W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135993
Initial Calibration Stds	
CCC	VP135994,VP135995
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088172.D	31 Oct 2025 08:08	JC\MD	Ok
2	VSTDCCC050	VN088173.D	31 Oct 2025 09:18	JC\MD	Ok,M
3	VN1031MBL01	VN088174.D	31 Oct 2025 09:53	JC\MD	Ok
4	VN1031WBL01	VN088175.D	31 Oct 2025 10:13	JC\MD	Ok
5	VN1031MBS01	VN088176.D	31 Oct 2025 10:40	JC\MD	Ok,M
6	VN1031MBSD01	VN088177.D	31 Oct 2025 11:14	JC\MD	Ok,M
7	Q3447-01	VN088178.D	31 Oct 2025 11:34	JC\MD	Not Ok
8	Q3447-03	VN088179.D	31 Oct 2025 11:55	JC\MD	Not Ok
9	Q3447-05	VN088180.D	31 Oct 2025 12:16	JC\MD	Not Ok
10	Q3447-07	VN088181.D	31 Oct 2025 12:37	JC\MD	Not Ok
11	IBLK	VN088182.D	31 Oct 2025 12:58	JC\MD	Ok
12	Q3447-01	VN088183.D	31 Oct 2025 13:19	JC\MD	Ok,M
13	Q3447-03	VN088184.D	31 Oct 2025 13:39	JC\MD	Not Ok
14	Q3447-05	VN088185.D	31 Oct 2025 14:00	JC\MD	Ok,M
15	Q3447-07	VN088186.D	31 Oct 2025 14:21	JC\MD	Ok
16	IBLK	VN088187.D	31 Oct 2025 14:42	JC\MD	Not Ok
17	Q3490-01	VN088188.D	31 Oct 2025 15:03	JC\MD	Ok
18	Q3501-01	VN088189.D	31 Oct 2025 15:23	JC\MD	Ok
19	Q3503-01	VN088190.D	31 Oct 2025 15:44	JC\MD	Ok
20	Q3503-03	VN088191.D	31 Oct 2025 16:05	JC\MD	Not Ok
21	Q3503-05	VN088192.D	31 Oct 2025 16:26	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103125

Review By	Amit Patel	Review On	11/3/2025 10:49:01 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/3/2025 10:59:53 AM		
SubDirectory	VN103125	HP Acquire Method		HP Processing Method	82N102325W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135993
Initial Calibration Stds	
CCC	VP135994,VP135995
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	IBLK	VN088193.D	31 Oct 2025 16:46	JC\MD	Ok
23	IBLK	VN088194.D	31 Oct 2025 17:07	JC\MD	Ok
24	VSTDCCC050	VN088195.D	31 Oct 2025 17:28	JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY100725

Review By	Semsettin Yesilyurt	Review On	10/10/2025 3:00:22 AM				
Supervise By	Mahesh Dadoda	Supervise On	10/10/2025 4:38:02 AM				
SubDirectory	VY100725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135766
Initial Calibration Stds	VP135767,VP135768,VP135769,VP135770,VP135771,VP135772
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP135773
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023383.D	07 Oct 2025 08:43	SY/MD	Ok
2	VSTDICC005	VY023384.D	07 Oct 2025 09:17	SY/MD	Ok,M
3	VSTDICC010	VY023385.D	07 Oct 2025 10:02	SY/MD	Ok,M
4	VSTDICC020	VY023386.D	07 Oct 2025 11:24	SY/MD	Ok,M
5	VSTDICCC050	VY023387.D	07 Oct 2025 11:47	SY/MD	Ok,M
6	VSTDICC100	VY023388.D	07 Oct 2025 12:09	SY/MD	Ok,M
7	VSTDICC150	VY023389.D	07 Oct 2025 12:32	SY/MD	Ok,M
8	VIBLK	VY023390.D	07 Oct 2025 13:02	SY/MD	Ok
9	VSTDICV050	VY023391.D	07 Oct 2025 14:12	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY110325

Review By	Amit Patel	Review On	11/4/2025 11:35:22 AM				
Supervise By	Mahesh Dadoda	Supervise On	11/4/2025 1:42:22 PM				
SubDirectory	VY110325	HP Acquire Method	MSVOA_Y		HP Processing Method	82y100725s.m	

STD. NAME	STD REF.#
Tune/Reschk	VP136012
Initial Calibration Stds	
CCC	VP136013,VP136014
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VY023646.D	03 Nov 2025 08:54	SY/MD	Ok
2	VSTDCCC050	VY023647.D	03 Nov 2025 09:25	SY/MD	Ok,M
3	VY1103SBL01	VY023648.D	03 Nov 2025 10:38	SY/MD	Ok
4	VY1103SBS01	VY023649.D	03 Nov 2025 11:08	SY/MD	Ok,M
5	VY1103SBSD01	VY023650.D	03 Nov 2025 11:30	SY/MD	Ok,M
6	Q3499-01RE	VY023651.D	03 Nov 2025 12:16	SY/MD	Confirms
7	Q3515-01RE	VY023652.D	03 Nov 2025 12:39	SY/MD	Not Ok
8	Q3516-01	VY023653.D	03 Nov 2025 13:03	SY/MD	Ok
9	Q3447-03	VY023654.D	03 Nov 2025 13:26	SY/MD	Ok
10	Q3519-01	VY023655.D	03 Nov 2025 13:50	SY/MD	Ok
11	Q3520-01	VY023656.D	03 Nov 2025 14:13	SY/MD	Ok
12	Q3503-03	VY023657.D	03 Nov 2025 14:37	SY/MD	Ok
13	VIBLK	VY023658.D	03 Nov 2025 15:20	SY/MD	Ok
14	VSTDCCC050	VY023659.D	03 Nov 2025 15:43	SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN102325

Review By	John Carlone	Review On	10/24/2025 8:16:57 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 2:53:14 PM		
SubDirectory	VN102325	HP Acquire Method		HP Processing Method	82N102325W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135909
Initial Calibration Stds	VP135921,VP135922,VP135923,VP135924,VP135925,VP135926
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP135927
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088077.D	23 Oct 2025 09:09		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN088078.D	23 Oct 2025 09:42	COM.#74 Peak not detected in 1PPB	JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN088079.D	23 Oct 2025 10:38		JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN088080.D	23 Oct 2025 10:59		JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN088081.D	23 Oct 2025 11:20	Method failed for Comp. #74	JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN088082.D	23 Oct 2025 11:41		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN088083.D	23 Oct 2025 12:02		JC\MD	Ok,M
8	IBLK	IBLK	VN088084.D	23 Oct 2025 12:23		JC\MD	Ok
9	VSTDICV050	ICVVN102325	VN088085.D	23 Oct 2025 14:54		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103125

Review By	Amit Patel	Review On	11/3/2025 10:49:01 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/3/2025 10:59:53 AM		
SubDirectory	VN103125	HP Acquire Method		HP Processing Method	82N102325W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135993
Initial Calibration Stds	
CCC	VP135994,VP135995
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	VN088172.D	31 Oct 2025 08:08		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN088173.D	31 Oct 2025 09:18		JC\MD	Ok,M
3	VN1031MBL01	VN1031MBL01	VN088174.D	31 Oct 2025 09:53		JC\MD	Ok
4	VN1031WBL01	VN1031WBL01	VN088175.D	31 Oct 2025 10:13		JC\MD	Ok
5	VN1031MBS01	VN1031MBS01	VN088176.D	31 Oct 2025 10:40		JC\MD	Ok,M
6	VN1031MBSD01	VN1031MBSD01	VN088177.D	31 Oct 2025 11:14		JC\MD	Ok,M
7	Q3447-01	P001-TW1-251023-01	VN088178.D	31 Oct 2025 11:34	Need Straight Run	JC\MD	Not Ok
8	Q3447-03	P001-TW2-251023-01	VN088179.D	31 Oct 2025 11:55	Need Straight Run	JC\MD	Not Ok
9	Q3447-05	P001-TW3-251023-01	VN088180.D	31 Oct 2025 12:16	Need Straight Run	JC\MD	Not Ok
10	Q3447-07	P001-TW4-251023-01	VN088181.D	31 Oct 2025 12:37	Need Straight Run	JC\MD	Not Ok
11	IBLK	IBLK	VN088182.D	31 Oct 2025 12:58		JC\MD	Ok
12	Q3447-01	P001-TW1-251023-01	VN088183.D	31 Oct 2025 13:19		JC\MD	Ok,M
13	Q3447-03	P001-TW2-251023-01	VN088184.D	31 Oct 2025 13:39	Need Soil Run	JC\MD	Not Ok
14	Q3447-05	P001-TW3-251023-01	VN088185.D	31 Oct 2025 14:00		JC\MD	Ok,M
15	Q3447-07	P001-TW4-251023-01	VN088186.D	31 Oct 2025 14:21		JC\MD	Ok
16	IBLK	IBLK	VN088187.D	31 Oct 2025 14:42		JC\MD	Not Ok
17	Q3490-01	LAW-25-0151	VN088188.D	31 Oct 2025 15:03	cloth material	JC\MD	Ok
18	Q3501-01	461	VN088189.D	31 Oct 2025 15:23	cloth material	JC\MD	Ok

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Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN103125

Review By	Amit Patel	Review On	11/3/2025 10:49:01 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	11/3/2025 10:59:53 AM		
SubDirectory	VN103125	HP Acquire Method		HP Processing Method	82N102325W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135993
Initial Calibration Stds	
CCC	VP135994,VP135995
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3503-01	322	VN088190.D	31 Oct 2025 15:44		JC\MD	Ok
20	Q3503-03	323	VN088191.D	31 Oct 2025 16:05	Need Soil Run	JC\MD	Not Ok
21	Q3503-05	324	VN088192.D	31 Oct 2025 16:26		JC\MD	Ok
22	IBLK	IBLK	VN088193.D	31 Oct 2025 16:46		JC\MD	Ok
23	IBLK	IBLK	VN088194.D	31 Oct 2025 17:07		JC\MD	Ok
24	VSTDCCC050	VSTDCCC050EC	VN088195.D	31 Oct 2025 17:28		JC\MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY100725

Review By	Semsettin Yesilyurt	Review On	10/10/2025 3:00:22 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/10/2025 4:38:02 AM		
SubDirectory	VY100725	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135766
Initial Calibration Stds	VP135767,VP135768,VP135769,VP135770,VP135771,VP135772
CCC	
Internal Standard/PEM	VP133934
ICV/I.BLK	VP135773
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023383.D	07 Oct 2025 08:43		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VY023384.D	07 Oct 2025 09:17		SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VY023385.D	07 Oct 2025 10:02		SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VY023386.D	07 Oct 2025 11:24		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VY023387.D	07 Oct 2025 11:47		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VY023388.D	07 Oct 2025 12:09		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VY023389.D	07 Oct 2025 12:32		SY/MD	Ok,M
8	VIBLK	VIBLK	VY023390.D	07 Oct 2025 13:02		SY/MD	Ok
9	VSTDICV050	ICVVY100725	VY023391.D	07 Oct 2025 14:12		SY/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY110325

Review By	Amit Patel	Review On	11/4/2025 11:35:22 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/4/2025 1:42:22 PM		
SubDirectory	VY110325	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP136012
Initial Calibration Stds	
CCC	VP136013,VP136014
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VY023646.D	03 Nov 2025 08:54		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023647.D	03 Nov 2025 09:25		SY/MD	Ok,M
3	VY1103SBL01	VY1103SBL01	VY023648.D	03 Nov 2025 10:38		SY/MD	Ok
4	VY1103SBS01	VY1103SBS01	VY023649.D	03 Nov 2025 11:08		SY/MD	Ok,M
5	VY1103SBSD01	VY1103SBSD01	VY023650.D	03 Nov 2025 11:30		SY/MD	Ok,M
6	Q3499-01RE	RBR251235RE	VY023651.D	03 Nov 2025 12:16	Internal Standard Fail	SY/MD	Confirms
7	Q3515-01RE	SU-04-103125RE	VY023652.D	03 Nov 2025 12:39	Internal standard fail;Not match with first run	SY/MD	Not Ok
8	Q3516-01	HD-01-103125	VY023653.D	03 Nov 2025 13:03		SY/MD	Ok
9	Q3447-03	P001-TW2-251023-01	VY023654.D	03 Nov 2025 13:26		SY/MD	Ok
10	Q3519-01	PL-01-103125	VY023655.D	03 Nov 2025 13:50		SY/MD	Ok
11	Q3520-01	EO-02-103125	VY023656.D	03 Nov 2025 14:13		SY/MD	Ok
12	Q3503-03	323	VY023657.D	03 Nov 2025 14:37		SY/MD	Ok
13	VIBLK	VIBLK	VY023658.D	03 Nov 2025 15:20		SY/MD	Ok
14	VSTDCCC050	VSTDCCC050EC	VY023659.D	03 Nov 2025 15:43		SY/MD	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/24/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15
Out Date: 10/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137624

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3399-03	COMP-ROLLOFF	15	1.15	10.96	12.11	11.00	89.9	
Q3437-03	SS-15R(2.0-2.5)	1	1.18	10.46	11.64	10.32	87.4	
Q3437-05	SS-26(0-0.5)	2	1.16	10.19	11.35	10.17	88.4	
Q3437-11	SS-27(0-0.5)	3	1.17	10.34	11.51	10.85	93.6	
Q3437-14	SS-25(0-0.5)	4	1.11	10.33	11.44	10.34	89.4	
Q3437-16	SS-23(0-0.5)	5	1.13	10.84	11.97	11.26	93.5	
Q3439-01	TP-9	6	1.18	10.29	11.47	10.55	91.1	
Q3439-02	TP-9-EPH	7	1.19	10.61	11.8	10.87	91.2	
Q3439-03	TP-9-VOC	8	1.18	10.14	11.32	10.41	91.0	
Q3439-05	TP-10	9	1.15	10.60	11.75	10.82	91.2	
Q3439-06	TP-10-EPH	10	1.19	10.17	11.36	10.44	91.0	
Q3439-07	TP-10-VOC	11	1.18	10.31	11.49	10.37	89.1	
Q3440-01	JB-2	12	1.13	11.32	12.45	10.38	81.7	
Q3440-02	JB-2-EPH	13	1.17	10.42	11.59	9.79	82.7	
Q3440-03	JB-2-VOC	14	1.13	8.36	9.49	8.14	83.9	
Q3445-01	EO-01-102325	16	1.14	10.46	11.6	10.74	91.8	
Q3445-02	EO-01-102325-E2	17	1.16	10.40	11.56	10.57	90.5	
Q3446-01	SB-14	18	1.11	10.00	11.11	10.82	97.1	
Q3446-02	SB-15	19	1.14	10.54	11.68	11.64	99.6	
Q3446-03	SB-16	20	1.19	10.31	11.5	11.44	99.4	
Q3446-04	SB-17	21	1.19	10.13	11.32	11.27	99.5	
Q3446-05	SB-18	22	1.19	10.53	11.72	11.67	99.5	
Q3446-06	SB-19	23	1.15	10.44	11.59	11.32	97.4	
Q3446-07	SB-20	24	1.16	10.50	11.66	11.6	99.4	
Q3446-08	SB-21	25	1.14	10.08	11.22	10.9	96.8	
Q3447-01	P001-TW1-251023-01	26	1.00	1.00	2.00	2.00	100.0	TAR SAMPLE
Q3447-03	P001-TW2-251023-01	27	1.19	10.43	11.62	10.75	91.7	
Q3447-05	P001-TW3-251023-01	28	1.18	10.70	11.88	11.64	97.8	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/24/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/23/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:15
Out Date: 10/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137624

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3447-07	P001-TW4-251023-01	29	1.00	1.00	2.00	2.00	100.0	TAR SAMPLE

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VR 13/24

WorkList Name : %1-102325 **WorkList ID :** 192629 **Department :** Wet-Chemistry **Date :** 10-23-2025 08:26:05

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3399-03	COMP-ROLLOFF	Solid	Percent Solids	Cool 4 deg C	ICES02	D41	10/20/2025	Chemtech -SO
Q3437-03	SS-15R(2.0-2.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	D31	10/22/2025	Chemtech -SO
Q3437-05	SS-26(0-0.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	D31	10/22/2025	Chemtech -SO
Q3437-11	SS-27(0-0.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	D31	10/22/2025	Chemtech -SO
Q3437-14	SS-25(0-0.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	D31	10/22/2025	Chemtech -SO
Q3437-16	SS-23(0-0.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	D31	10/22/2025	Chemtech -SO
Q3439-01	TP-9	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/22/2025	Chemtech -SO
Q3439-02	TP-9-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/22/2025	Chemtech -SO
Q3439-03	TP-9-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/22/2025	Chemtech -SO
Q3439-05	TP-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/23/2025	Chemtech -SO
Q3439-06	TP-10-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/23/2025	Chemtech -SO
Q3439-07	TP-10-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/23/2025	Chemtech -SO
Q3440-01	JB-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/22/2025	Chemtech -SO
Q3440-02	JB-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/22/2025	Chemtech -SO
Q3440-03	JB-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D41	10/22/2025	Chemtech -SO
Q3445-01	EO-01-102325	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/23/2025	Chemtech -SO
Q3445-02	EO-01-102325-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	10/23/2025	Chemtech -SO
Q3446-01	SB-14	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/23/2025	Chemtech -SO
Q3446-02	SB-15	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/23/2025	Chemtech -SO
Q3446-03	SB-16	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/23/2025	Chemtech -SO
Q3446-04	SB-17	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/23/2025	Chemtech -SO

Date/Time 10/23/25 15:00

Raw Sample Received by: [illegible] (WC)

Raw Sample Relinquished by: [illegible] (SM)

Date/Time 10/23/25 17:30

Raw Sample Received by: [illegible] (SM)

Raw Sample Relinquished by: [illegible] WC

WORKLIST(Hardcopy Internal Chain) VB137624

WorkList Name : %1-102325 **WorkList ID :** 192629 **Department :** Wet-Chemistry **Date :** 10-23-2025 08:26:05

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3446-05	SB-18	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/23/2025	Chemtech -SO
Q3446-06	SB-19	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/23/2025	Chemtech -SO
Q3446-07	SB-20	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/23/2025	Chemtech -SO
Q3446-08	SB-21	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/23/2025	Chemtech -SO
Q3447-01	P001-TW1-251023-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	D41	10/23/2025	Chemtech -SO
Q3447-03	P001-TW2-251023-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	D41	10/23/2025	Chemtech -SO
Q3447-05	P001-TW3-251023-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	D41	10/23/2025	Chemtech -SO
Q3447-07	P001-TW4-251023-01	Solid	Percent Solids	Cool 4 deg C	ROYF02	D41	10/23/2025	Chemtech -SO

Date/Time 10/23/25 1510

Raw Sample Received by: JA CWC

Raw Sample Relinquished by: CPCSM

Date/Time 10/23/25 1730

Raw Sample Received by: CPCSM

Raw Sample Relinquished by: JA CWC

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

Prep Standard - Chemical Standard Summary

Order ID : Q3447

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: VN103125,Vy110325,

Standard ID :
VP133934,VP134142,VP134147,VP134149,VP134150,VP134934,VP134956,VP134957,VP135552,VP135553,VP135834,VP135835,VP135878,VP135993,VP135994,VP135995,VP136012,VP136013,VP136014,

Chemical ID :
V13391,V14200,V14204,V14205,V14290,V14509,V14510,V14531,V14532,V14625,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14727,V14728,V14803,V14815,V14844,V14906,V14909,V14921,V14926,V14928,V14929,V14951,V14952,V15073,V15074,V15075,W3112,

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Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1917	8260 Internal standard 50 ppm	VP133934	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/21/2025

FROM 0.10000ml of V14290 + 49.90000ml of V14921 = Final Quantity: 50.000 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

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
252	8260 Working STD (BCM)-First source, 100PPM	VP134147	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14673 + 19.00000ml of V14929 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1811	8260 Working Std(2-CVE)-500ppm	VP134150	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 7.50000ml of V14929 + 12.50000ml of VP134149 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
249	8260 Surrogate, 100PPM	VP134934	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.10000ml of V14906 + 24.90000ml of V14625 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP134956	08/01/2025	11/09/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.25000ml of V14290 + 24.75000ml of V14626 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 08/06/2025

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135552	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2025

FROM 0.40000ml of V14844 + 1.00000ml of V14200 + 1.00000ml of V14509 + 1.00000ml of V14510 + 1.00000ml of V14531 + 1.00000ml of V14532 + 1.00000ml of V14727 + 1.00000ml of V14728 + 1.00000ml of V14803 + 1.00000ml of V14815 + 1.00000ml of V14951 + 1.00000ml of V14952 + 1.50000ml of V14204 + 1.50000ml of V14205 + 10.60000ml of V14928 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
244	8260 Calibration Working STD Mix-First source, 100PPM	VP135553	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2025

FROM 5.62500ml of V14928 + 9.37500ml of VP135552 = Final Quantity: 15.000 ml

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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	VP135834	10/17/2025	11/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/17/2025

FROM 1.00000ml of V15073 + 1.50000ml of V15074 + 1.50000ml of V15075 + 21.00000ml of V14928 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
56	8260 Working STD (Acrolein) -first source, 500PPM	VP135835	10/17/2025	11/16/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/17/2025

FROM 7.50000ml of V14928 + 12.50000ml of VP135834 = Final Quantity: 20.000 ml

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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	VP135878	10/22/2025	04/20/2026	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/23/2025

FROM 0.40000ml of V14909 + 24.60000ml of V14926 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP135993	10/31/2025	11/01/2025	John Carlone	None	None	Mahesh Dadoda 10/31/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 ml

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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	VP135994	10/31/2025	11/01/2025	John Carlone	None	None	Mahesh Dadoda 10/31/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP135878 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135552 + 0.01250ml of VP135834 = 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	VP135995	10/31/2025	11/01/2025	John Carlone	None	None	Mahesh Dadoda 10/31/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP135878 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135552 + 0.01250ml of VP135834 = Final Quantity: 40.000 ml

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Fax : 908 789 8922

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP136012	11/03/2025	11/04/2025	Amit Patel	None	None	Mahesh Dadoda 11/03/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP134957 = Final Quantity: 5.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP136013	11/03/2025	11/03/2025	Amit Patel	None	None	Mahesh Dadoda 11/03/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135553 + 0.00250ml of VP135835 + 0.00500ml of VP133934 = Final Quantity: 5.000 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
773	50 PPB CCC, 8260-SOIL	VP136014	11/03/2025	11/03/2025	Amit Patel	None	None	Mahesh Dadoda 11/03/2025

FROM 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135553 + 0.00250ml of VP135835 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14204

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14205

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14509

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14510

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14531

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14671

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14727

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14728

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14803

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220471	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	03/22/2026	09/22/2025 / sam	01/21/2025 / SAM	V14844

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0223904	04/22/2026	10/22/2025 / sam	03/24/2025 / SAM	V14909

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	04/20/2026	10/20/2025 / sam	05/09/2025 / SAM	V14926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	03/22/2026	09/22/2025 / sam	05/09/2025 / SAM	V14928

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

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Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14951

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	101625	11/16/2025	10/17/2025 / sam	10/17/2025 / sam	V15073

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	101625	11/16/2025	10/17/2025 / sam	10/17/2025 / sam	V15074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	101625	11/16/2025	10/17/2025 / sam	10/17/2025 / sam	V15075

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
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Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
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Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By:	Prashant Chauhan	021624 DATE
Reviewed By:	Pedro L. Rentas	021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 | 5E-05 Balance Uncertainty | 0.021 Flask Uncertainty

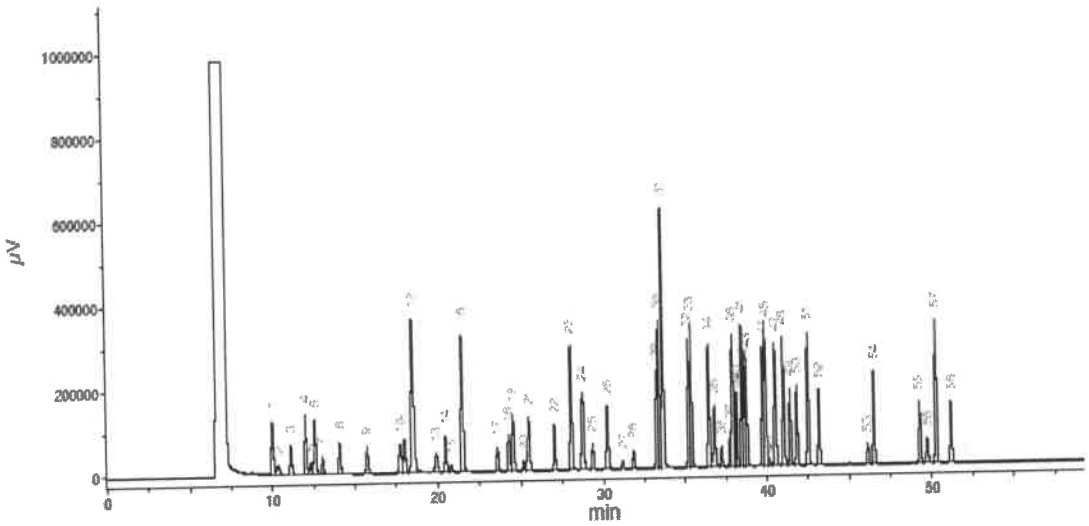
	Compound	(KMS) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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)	MKCR6561	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	35.23
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	41.42
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. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By:	Prashant Chauhan	021624	DATE
Reviewed By:	Pedro L. Rentas	021624	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

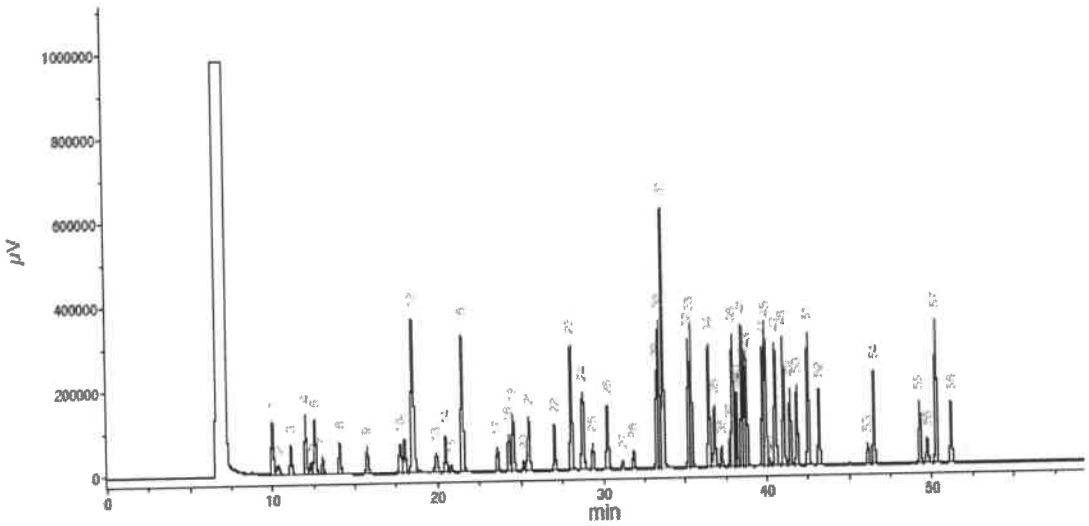
Compound	(KMS) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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

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- 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	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

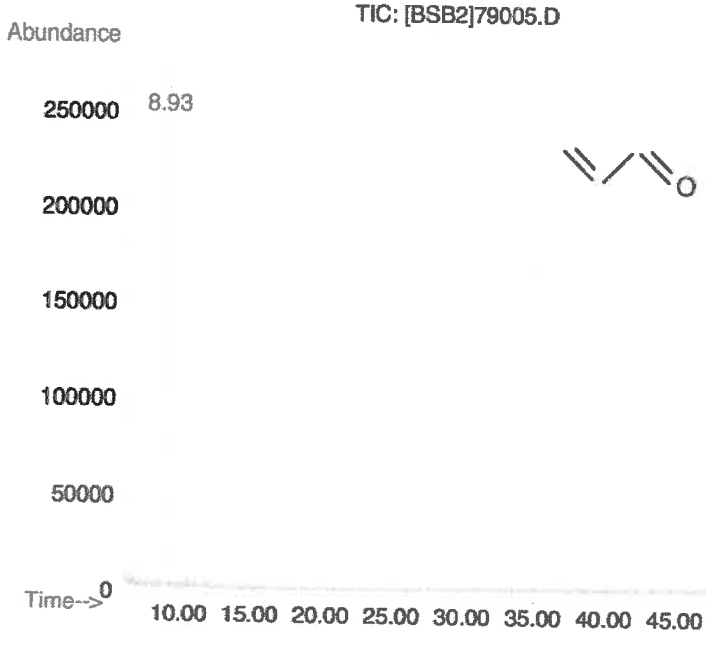
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Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

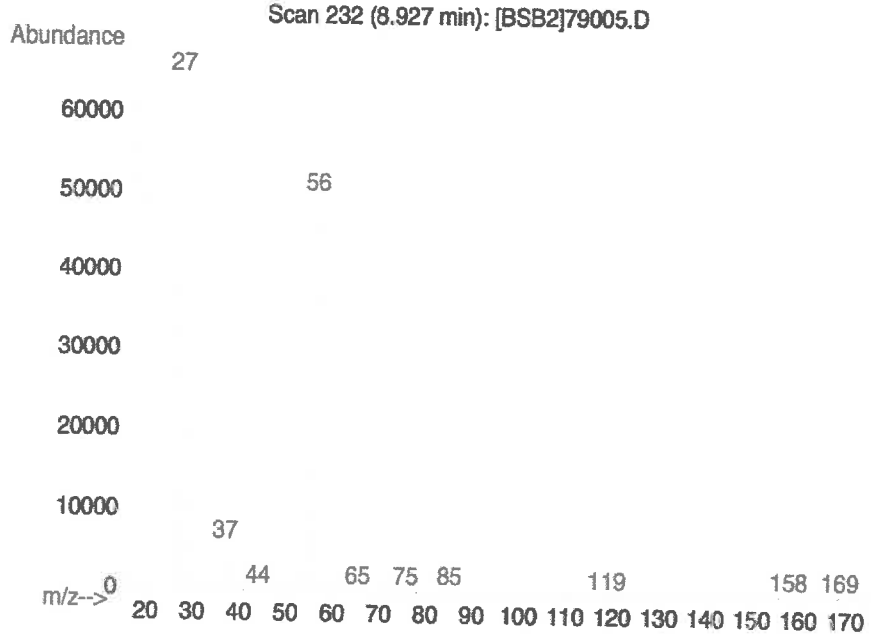
Justin Dippold 091424
Formulated By: Justin Dippold DATE

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.
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Certified Reference Material CRM

Rec 09/16/24 2 Vials

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AR-1539 Certificate Numb
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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

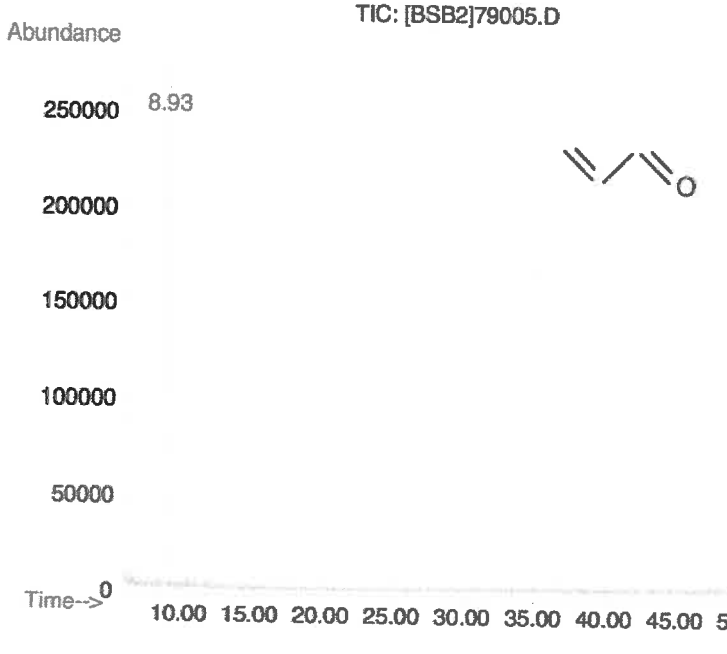
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

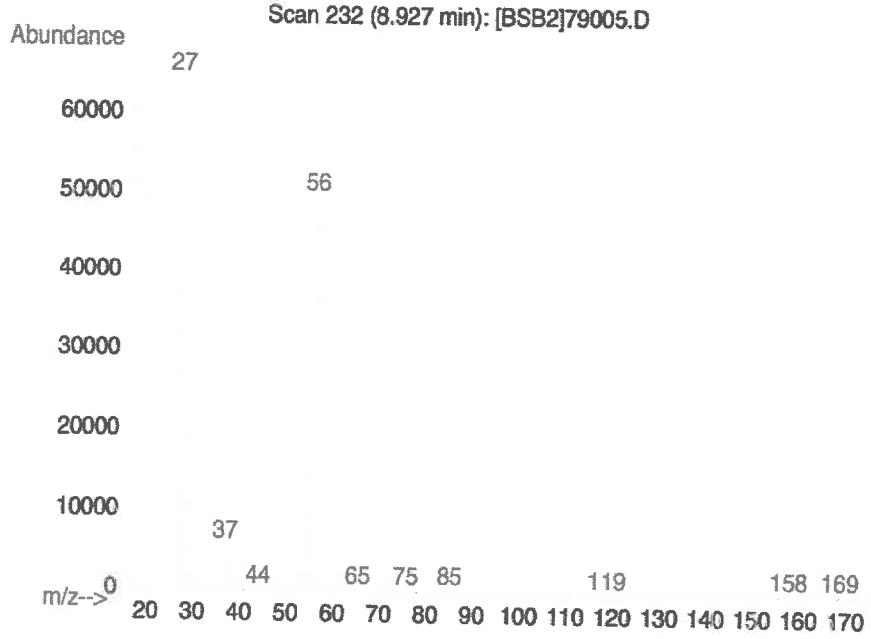
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

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.





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Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

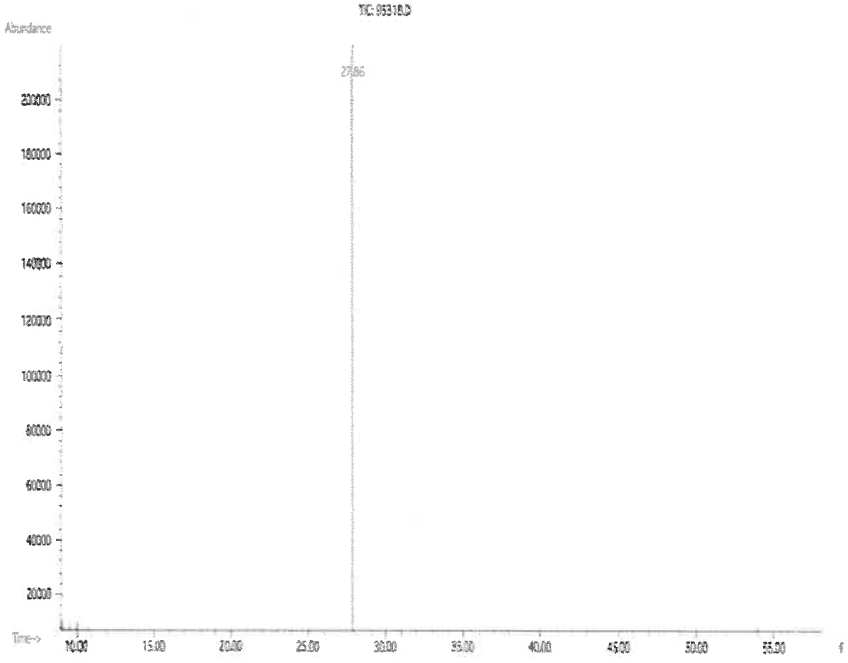
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

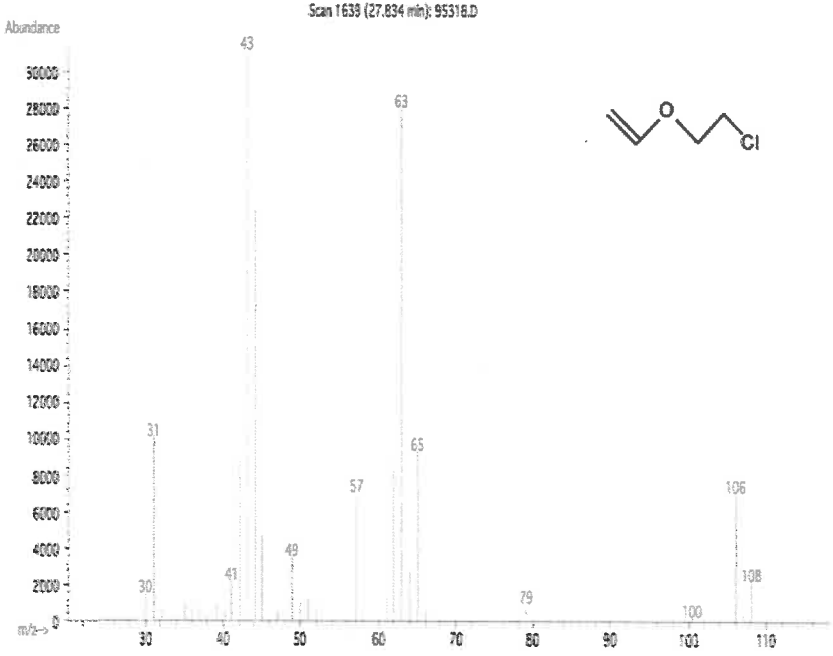
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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- 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.

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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

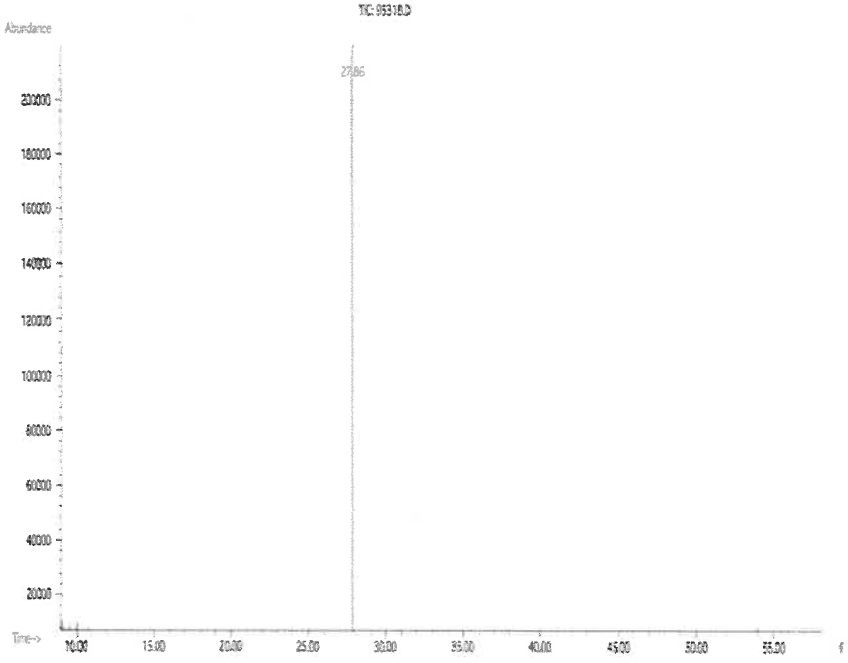
5E-05 Balance Uncertainty
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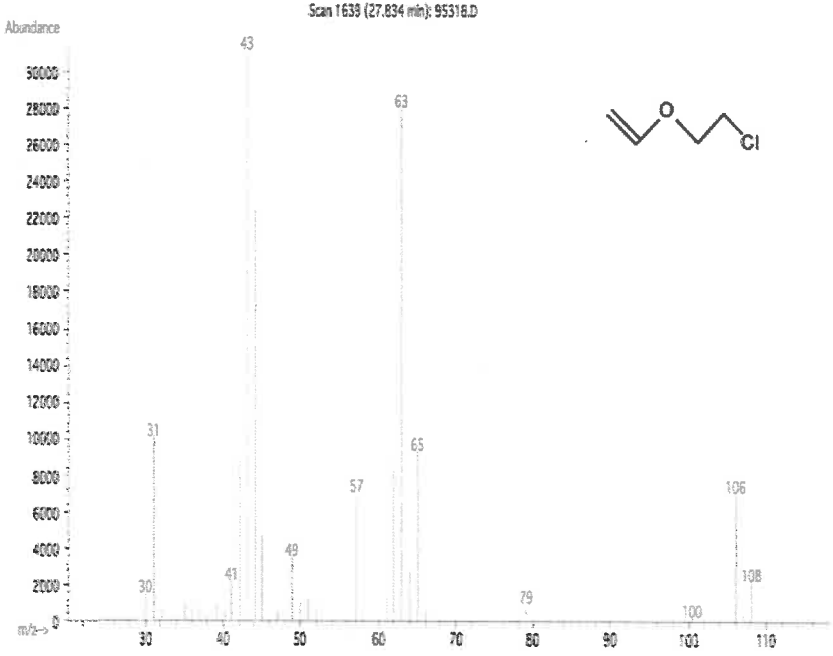
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Safety Data Sheet (SDS) GHS/OSHA Compliant

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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

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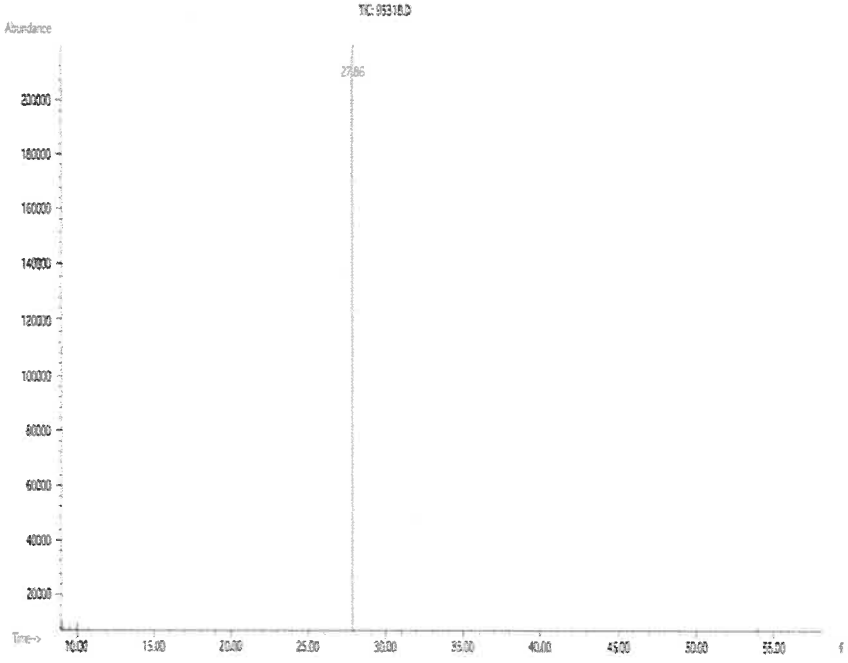
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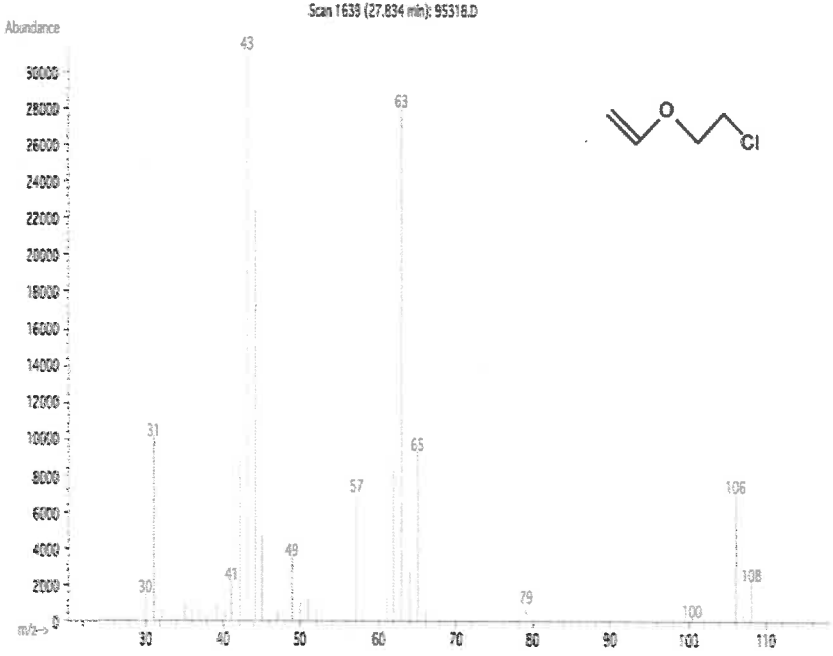
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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

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Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

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Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

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Section XIII. DISPOSAL CONSIDERATIONS

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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
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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

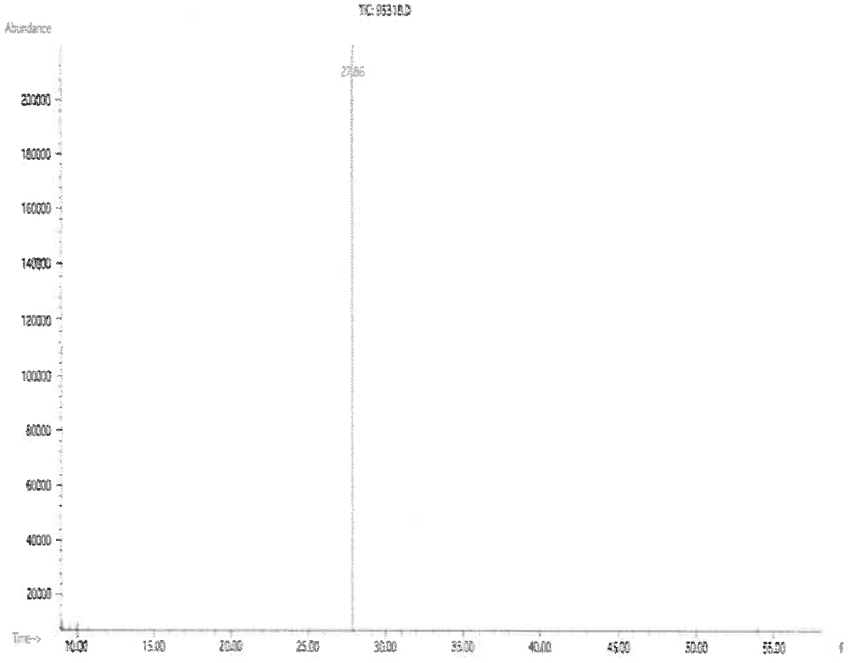
Solvent(s): Methanol **Lot#** EJ143-US

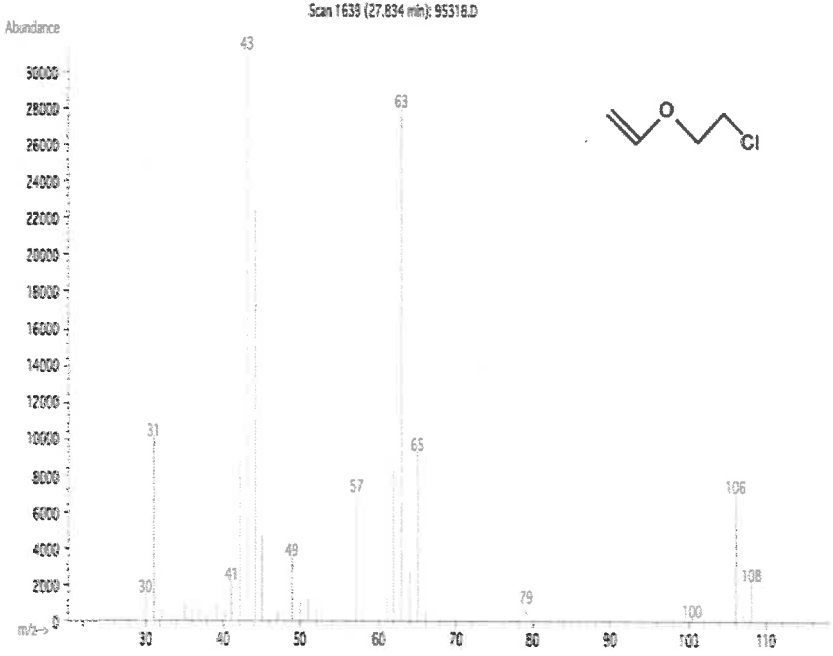
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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
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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

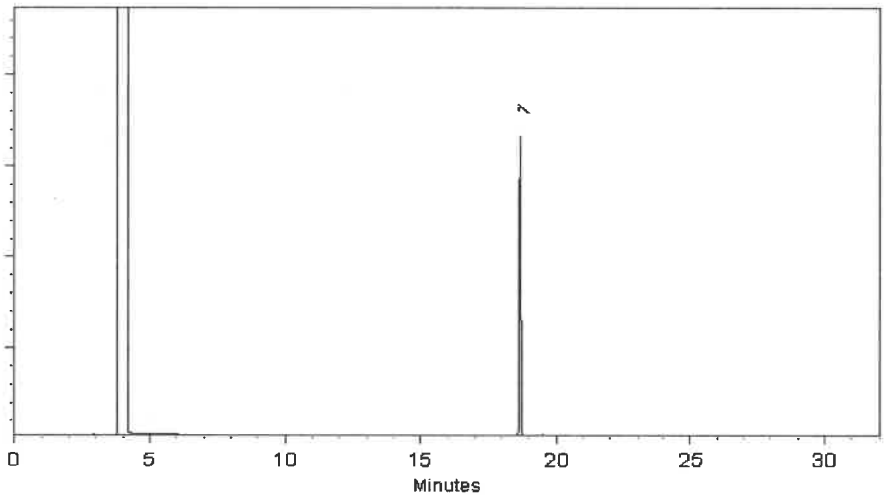
Inj. Temp:
200°C

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.

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Certificate of Analysis

chromatographic plus

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

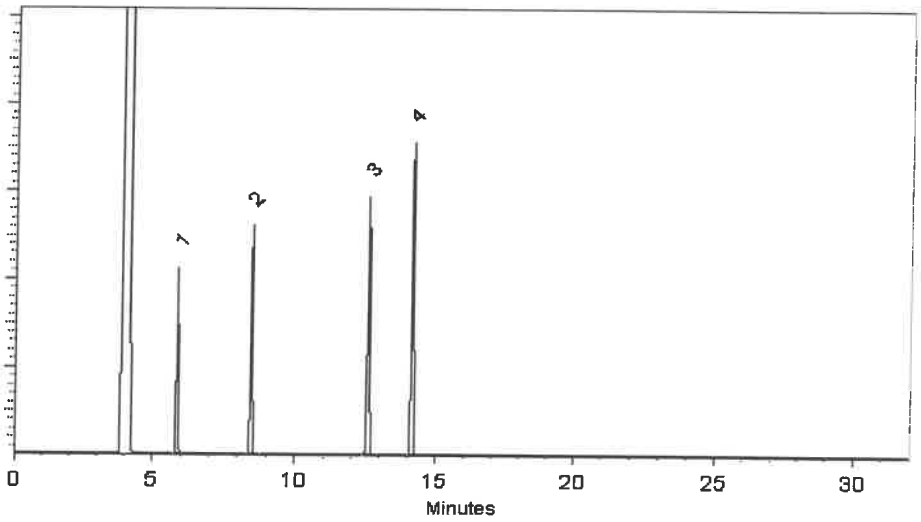
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate of Analysis

chromatographic plus

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

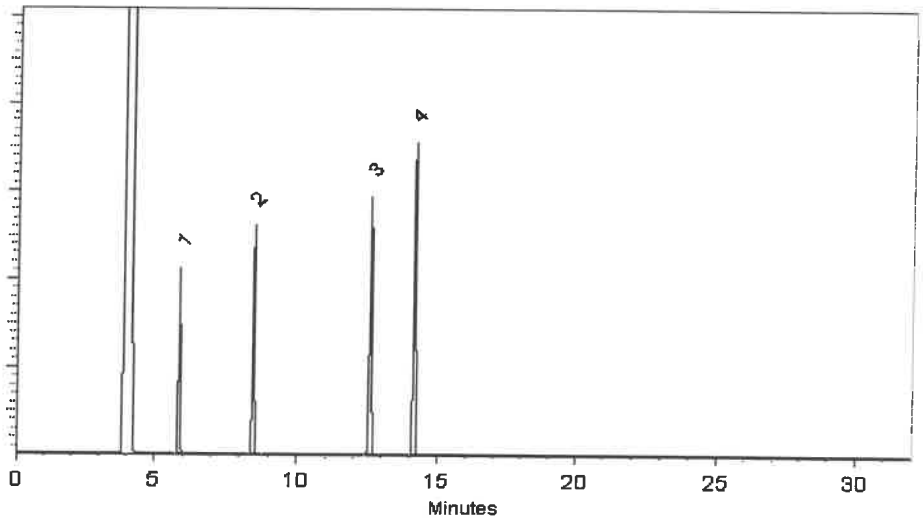
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- 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.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

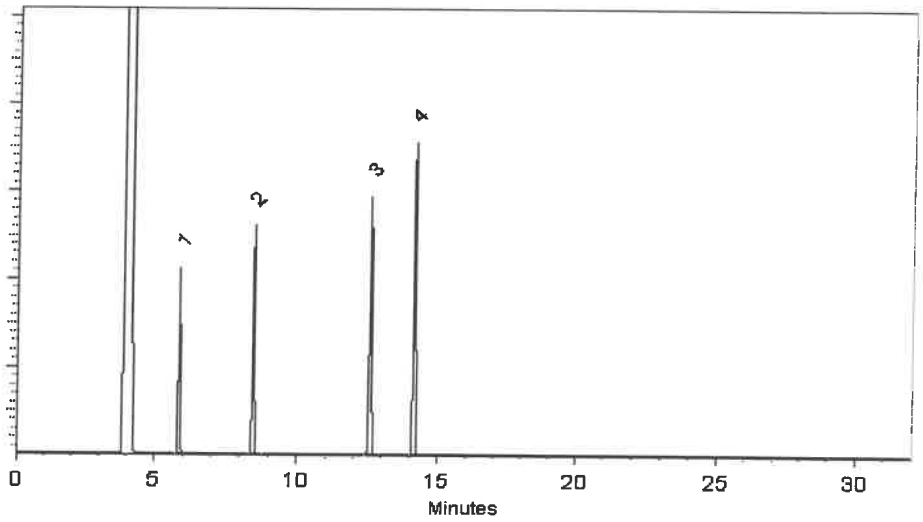
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate of Analysis

gravimetric

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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.
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- 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:

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$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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:

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CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

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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.)

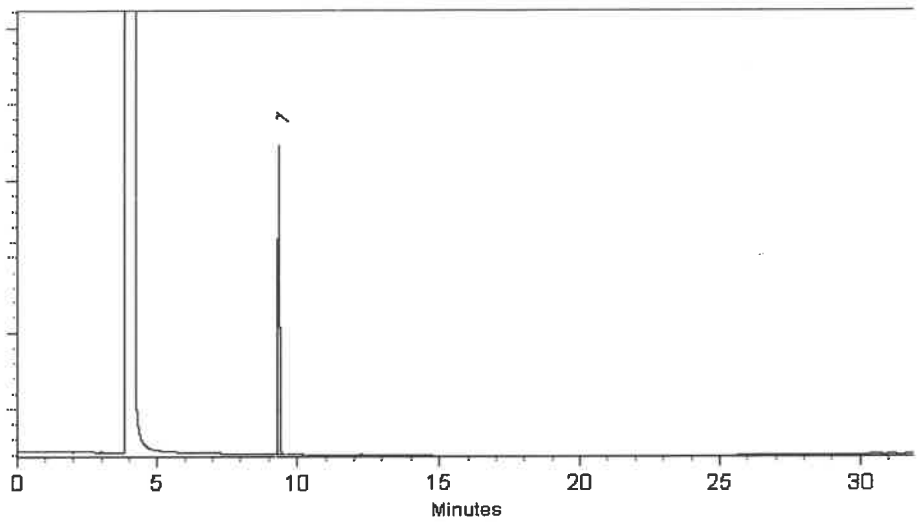
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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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.
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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.)

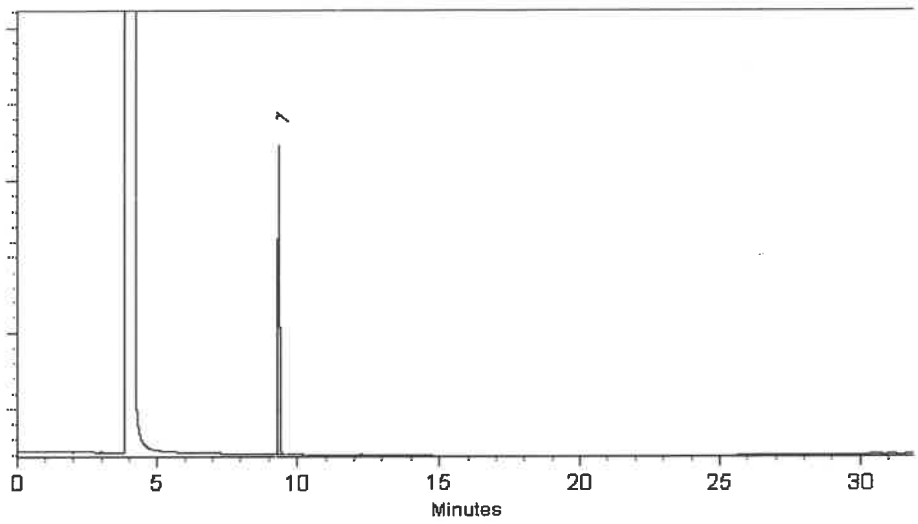
Inj. Temp:
200°C

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.
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CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

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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.)

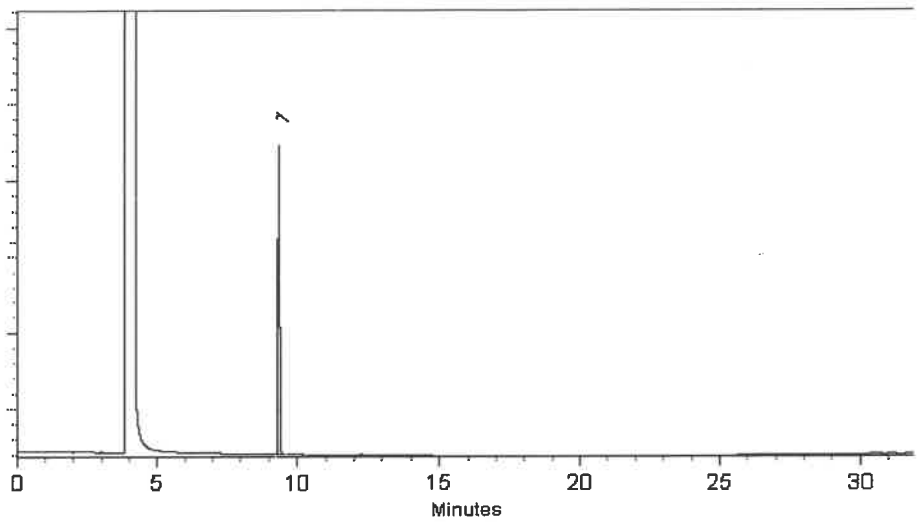
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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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.
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Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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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:

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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.)

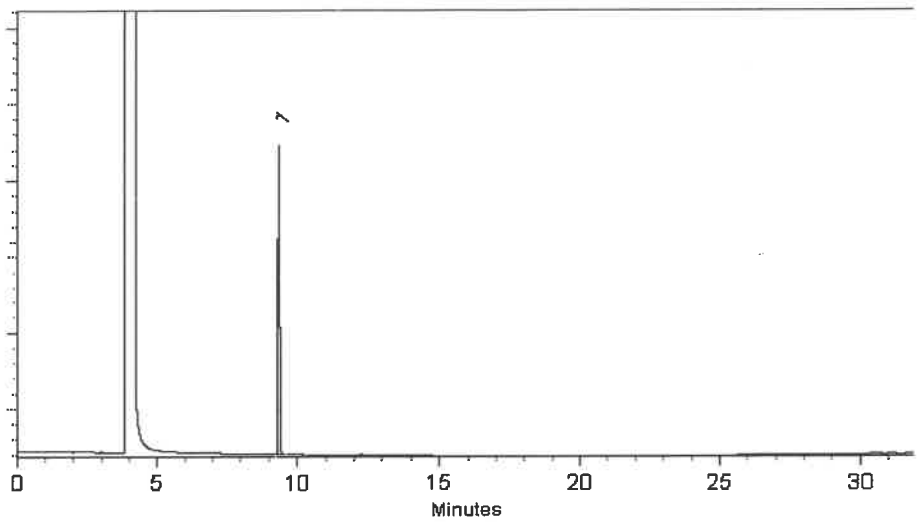
Inj. Temp:
200°C

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:

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Handling Notes:

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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.

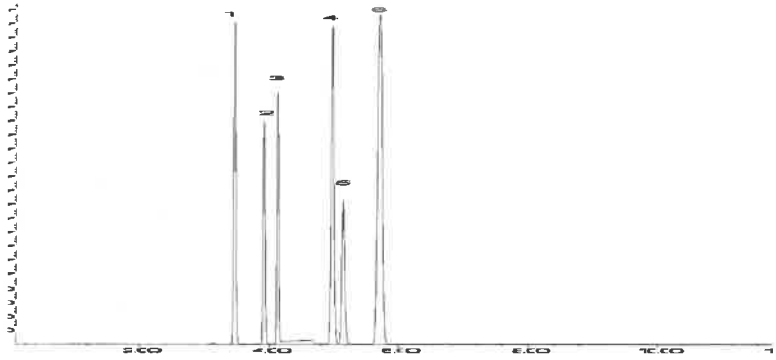
Inj. Temp:
200°C

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.

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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

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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.

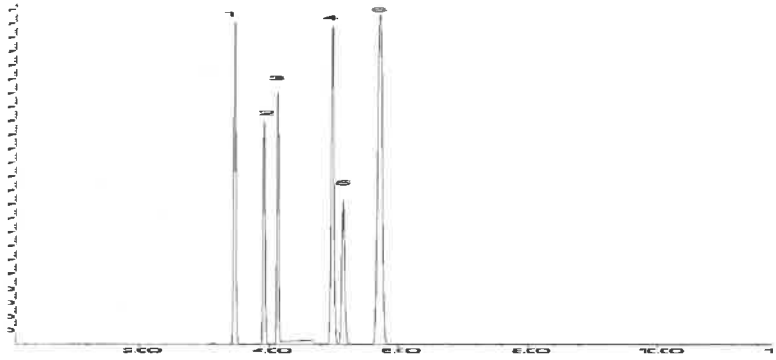
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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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:

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  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.
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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.)

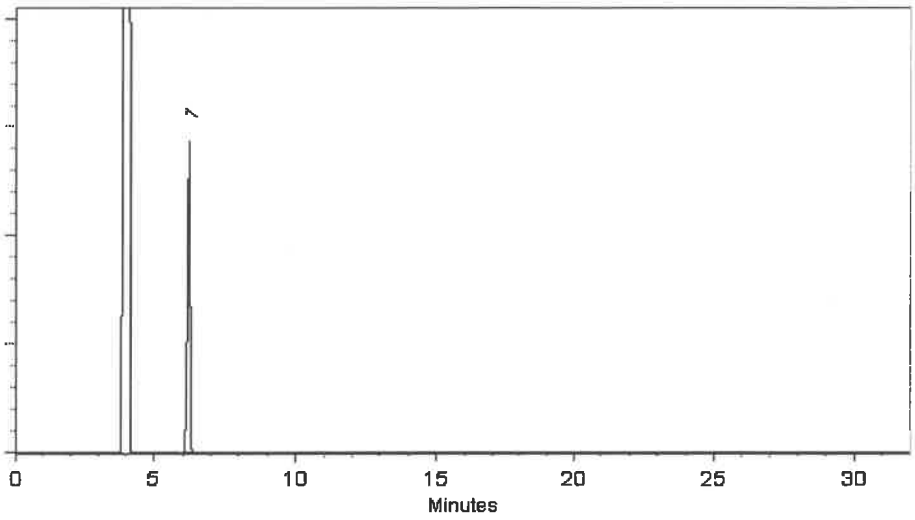
Inj. Temp:
200°C

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:

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Verify 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.)

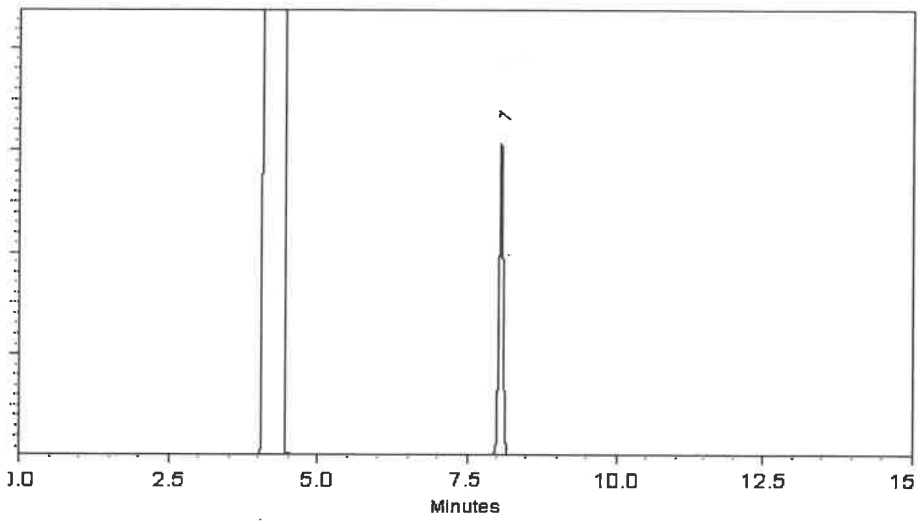
Inj. Temp:
200°C

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.
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Purity Notes:

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Certified Uncertainty Value Notes:

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  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:

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Handling Notes:

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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

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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.)

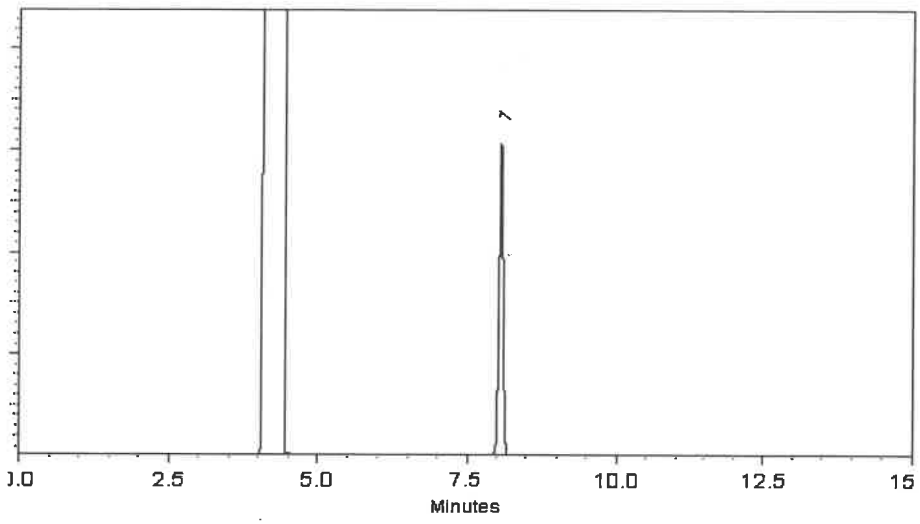
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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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:

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Purity Notes:

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- 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:

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Manufacturing Notes:

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Handling Notes:

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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10 vial

CERTIFIED REFERENCE MATERIAL

Lee 03/31/25

Certificate of Analysis

gravimetric

V14904 to V14913

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0223904

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 27-Mar-2025 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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 03/31/25

Certificate of Analysis

gravimetric

V14904 to V14913

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0223904

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 27-Mar-2025 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Lee 05/19/25

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL
2 x Vial

Certificate of Analysis

chromatographic plus

VJ14951 to VJ14970

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0222076

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

Lee 05/19/25

RESTEK

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Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

2 x Vial

Certificate of Analysis

chromatographic plus

VJ14951 to VJ14970

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.:** A0222076

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

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Certified Reference Material CRM

Rec 10/16/25 5 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 101625
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

Expiration Date: 111625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15071 – V15075

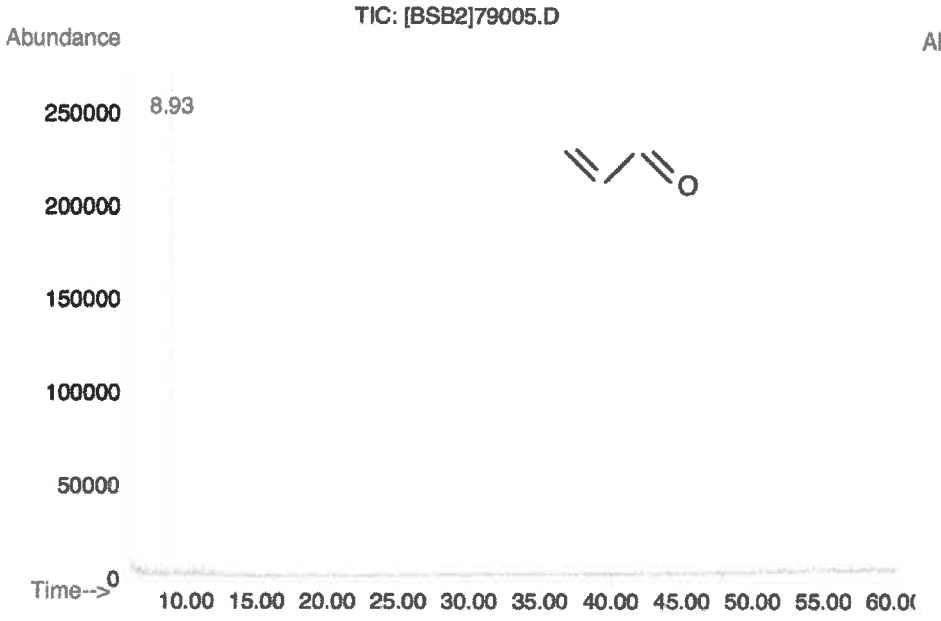
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

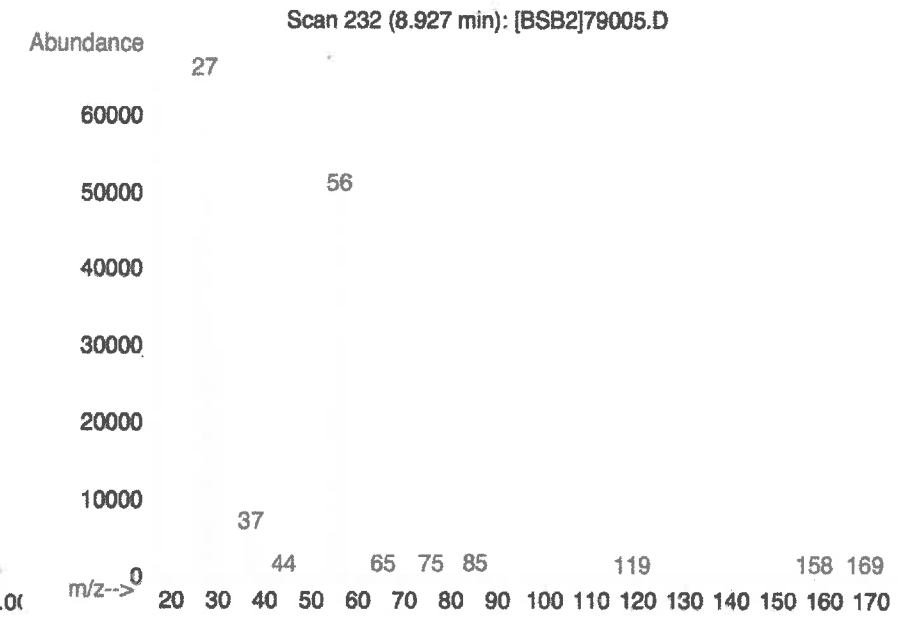
Weight(s) shown below were combined and diluted to (mL): 10.0

Prashant Chauhan	101625
Formulated By: Prashant Chauhan	DATE
Pedro L. Rentas	101625
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	0.05180	5013.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Goverament 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 10/16/25 5 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 101625
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

Expiration Date: 111625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15071 – V15075

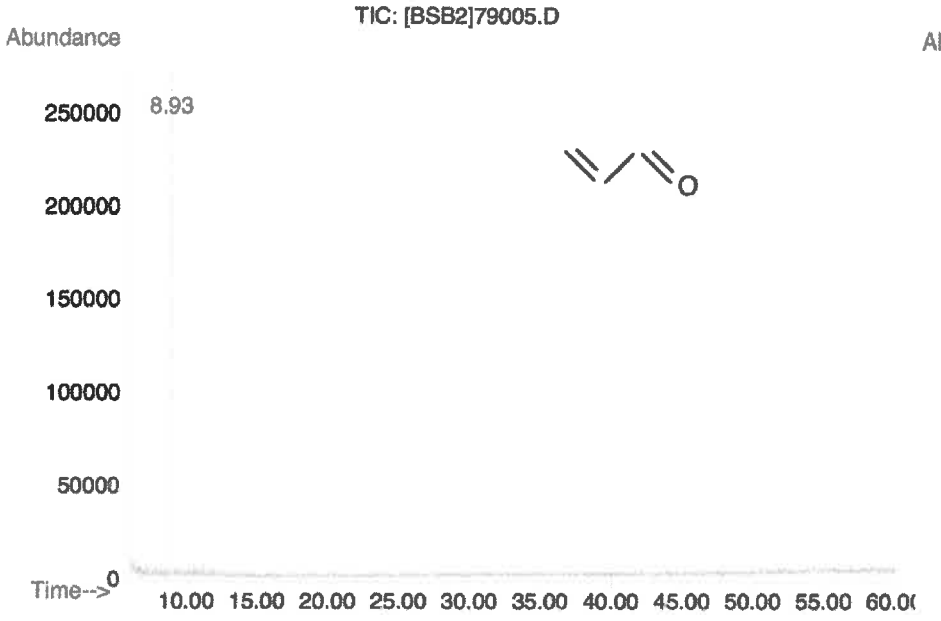
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

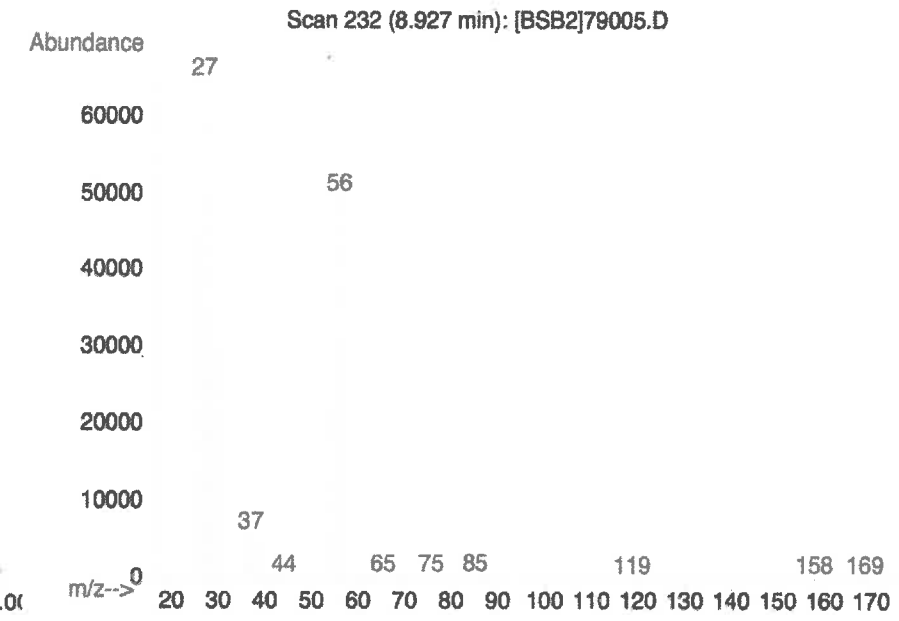
Weight(s) shown below were combined and diluted to (mL): 10.0

Prashant Chauhan	101625
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	101625
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	0.05180	5013.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Goverament Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

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Certified Reference Material CRM

Rec 10/16/25 5 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 101625
Description: Acrolein

Solvent(s): Water **Lot#** 041725Q

Expiration Date: 111625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

V15071 – V15075

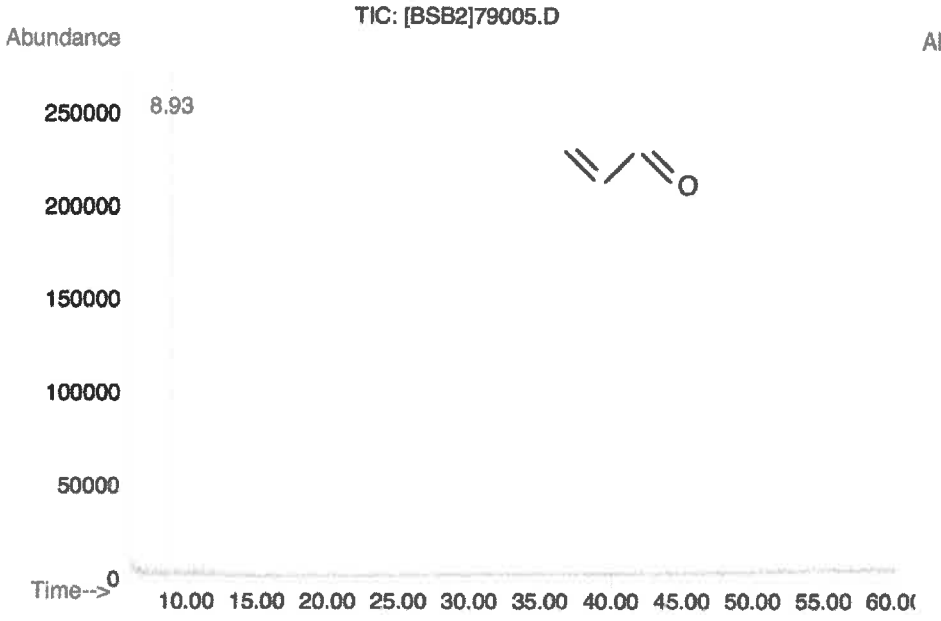
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

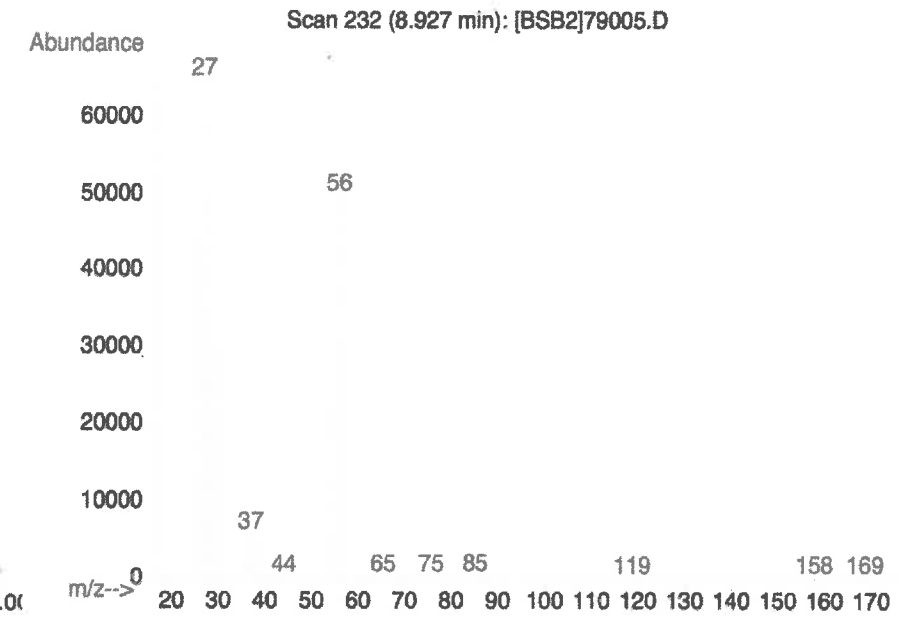
Weight(s) shown below were combined and diluted to (mL): 10.0

Prashant Chauhan	101625	
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas	101625	
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	0.05180	5013.7	52.6	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

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

Preservation Log

BalanceID: VOA-SC-2

Review By: Amit

Supervise By: MMDadoda

Seq	LabID	Vial A Weight(g)	Vial A Time	Vial B Weight(g)	Vial B Time	Vial C Weight(g) with MeOH	Vial C Time	Methanol ID	Preservation Date	Comments
1	Q3447-01	3.73	10:00	3.17	10:01	3.29	10:02	V14921	10/24/2025	JAR SAMPLE 8260 STORED IN FRZ #2
2	Q3447-03	3.69	10:03	3.46	10:04	3.12	10:05	V14921	10/24/2025	
3	Q3447-05	0.00	10:06	0.00	10:07	5.00	10:08	V14921	10/24/2025	
4	Q3447-07	0.00	10:09	0.00	10:10	3.22	10:11	V14921	10/24/2025	

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.

QA Contorl # A3041177

SHIPPING DOCUMENTS

Q3447

USEPA

DateShipped: 10/23/2025

CarrierName: Hand Deliver

AirbillNo: N/A

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-102325-0004-0037-1

RFP #905

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-TW1-251023-01	Waste		A	TAL VOCs		10/23/2025	10:00	4	5 gram Encore/4 oz glass	4 C	N
	P001-TW1-251023-01	Waste		B	TAL SVOCs		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		C	TAL PCBs		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		D	TAL Pesticides		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		E	TAL Metals + Hg + CN		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		F	TCLP VOC		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		G	TCLP SVOC, TCLP Pesticide		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		I	TCLP Metals + Hg		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		J	TCLP Herbicide		10/23/2025	10:00	1	8 oz glass	4 C	N

Special Instructions: POSSIBLE HIGH CONCENTRATIONS. Please email results to s.sumbaly@westonsolutions.com and josh.frizzell@westonsolutions.com. Associate with RFP# 905. 10 Days TAT. Sample P001-TW4-251023-01 has limited volume and may require warming to remove from the sample jar. Samples too hard for Encore are in 4 oz. septum jars.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Analyses	Olga Kuzmitskene	10/23/25 1330		10/23/25 1330	Ice-Cool # 1 2.1 °C

Q3447

USEPA
DateShipped: 10/23/2025
CarrierName: Hand Deliver
AirbillNo: N/A

CHAIN OF CUSTODY RECORD
Site #: 02FP
Contact Name Josh Frizzell
(470) 277-4600

No: 2-102325-0004-0037-1
RFP #905
Lab: Alliance Technical Group, LLC - Non CLP
Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-TW2-251023-01	Waste		A	TAL VOCs		10/23/2025	10:30	4	5 gram Encore/4 oz glass	4 C	N
	P001-TW2-251023-01	Waste		B	TAL SVOCs		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		C	TAL PCBs		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		D	TAL Pesticides		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		E	TAL Metals + Hg + CN		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		F	TCLP VOC		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		G	TCLP SVOC, TCLP Pesticide		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		I	TCLP Metals + Hg		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		J	TCLP Herbicide		10/23/2025	10:30	1	8 oz glass	4 C	N

Special Instructions: POSSIBLE HIGH CONCENTRATIONS. Please email results to s.sumbaly@westonsolutions.com and josh.frizzell@westonsolutions.com. Associate with RFP# 905. 10 Days TAT. Sample P001-TW4-251023-01 has limited volume and may require warming to remove from the sample jar. Samples too hard for Encore are in 4 oz. septum jars.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Analyses	Olga Kuzmitskaya	10/23/25 1330		10/23/25 13:30	If Cooler #1 2.1 °C

Q3447

USEPA

DateShipped: 10/23/2025

CarrierName: Hand Deliver

AirbillNo: N/A

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-102325-0004-0037-1

RFP #905

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-TW3-251023-01	Waste		A	TAL VOCs		10/23/2025	11:00	1	4 oz glass w/septum	4 C	N
	P001-TW3-251023-01	Waste		B	TAL SVOCs		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		C	TAL PCBs		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		D	TAL Pesticides		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		E	TAL Metals + Hg + CN		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		F	TCLP VOC		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		G	TCLP SVOC, TCLP Pesticide		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		I	TCLP Metals + Hg		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		J	TCLP Herbicide		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		A	TAL VOCs		10/23/2025	11:30	1	4 oz glass w/septum	4 C	N

Special Instructions: POSSIBLE HIGH CONCENTRATIONS. Please email results to s.sumbaly@westonsolutions.com and josh.frizzell@westonsolutions.com. Associate with RFP# 905. 10 Days TAT. Sample P001-TW4-251023-01 has limited volume and may require warming to remove from the sample jar. Samples too hard for Encore are in 4 oz. septum jars.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Analyses	Olga Kuzmitskaya	10/23/25 1330		10/23/25 1330	Ice Chest 2.1 °C

Q3447

USEPA

DateShipped: 10/23/2025

CarrierName: Hand Deliver

AirbillNo: N/A

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-102325-0004-0037-1

RFP #905

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-TW4-251023-01	Waste		B	TAL SVOCs		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		C	TAL PCBs		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		D	TAL Pesticides		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		E	TAL Metals + Hg + CN		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		F	TCLP VOC		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		G	TCLP SVOC, TCLP Pesticide		10/23/2025	11:30	1 2 JDF 10-23-25	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		I	TCLP Metals + Hg		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		J	TCLP Herbicide		10/23/2025	11:30	1	8 oz glass	4 C	N
			JDF									
					10-23-2025							

Special Instructions: POSSIBLE HIGH CONCENTRATIONS. Please email results to s.sumbaly@westonsolutions.com and josh.frizzell@westonsolutions.com. Associate with RFP# 905. 10 Days TAT. Sample P001-TW4-251023-01 has limited volume and may require warming to remove from the sample jar. Samples too hard for Encore are in 4 oz. septum jars.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Analyses	Olga Kuzmitskaya	10/23/25 1330		1330 10/23/25	Ice chest # 12.1°

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, as amended, Section 311 of the Clean Water Act (CWA), as amended, by the Oil Pollution Act of 1990, Subtitle I of the Resource Conservation and Recovery Act (RCRA), an pursuant to the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and Presidential Decision Document (PDD) #39, the Environmental Protection Agency (EPA) has been delegated the responsibility to undertake response actions with respect to, as a general matter, the release or threat of release of oil, petroleum products, hazardous substances, or pollutants and contaminants, that pose an actual or potential threat to human health or welfare, or to the environment. EPA is responsible for conducting evaluations and cleanups of uncontrolled hazardous substance disposal sites and placing those that are considered to pose a significant threat to the public health or the environment on the National Priorities List (NPL).

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Superfund Technical Assessment & Response Team (START) for EPA. The WESTON START Contract 68HE0319D0004, provides this support to EPA Region II.

Hazardous Communication

The Samples which accompany this notice were shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON START and tentatively designated by the field response team, as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soil locations that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a radiation survey meter are considered *Radioactive Samples.*

The samples which accompany this notice were tentatively classified by the field response team as:
_____Environmental __X__Hazardous _____Comb (Envir. & Haz) _____Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

____Level A ____Level B ____Level C __X__Level D

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The Sample classification(s) and Levels of personal protection used by the WESTON START are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgement.

Laboratory Name: Alliance *RFP No.* 905

Prepared by: Josh Frizzell *Date* 10-23-2025

WESTON Office: Region II START, Edison, New Jersey; Phone: 732-585-4400

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

Laboratory Certification

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3447 ROYF02
Client Name : Weston Solutions, Inc.
Client Contact : Smita Sumbaly
Invoice Name : Weston Solutions, Inc.
Invoice Contact : Smita Sumbaly

Order Date : 10/23/2025 1:50:00 PM
Project Name : RFP 905
Receive DateTime : 10/23/2025 1:30:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3447-01	P001-TW1-251023-01	Solid	10/23/2025	10:00	VOC-TCLVOA-10		8260D		10 Bus. Days
Q3447-03	P001-TW2-251023-01	Solid	10/23/2025	10:30 ~~10:00~~	VOC-TCLVOA-10		8260D		10 Bus. Days
Q3447-05	P001-TW3-251023-01	Solid	10/23/2025	11:00 ~~10:00~~	VOC-TCLVOA-10		8260D		10 Bus. Days
Q3447-07	P001-TW4-251023-01	Solid	10/23/2025	11:30 ~~10:00~~	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinguished By :
Date / Time : 10/23/25 1437

Received By :
Date / Time : 10/23/25 1437
Storage Area : VOA Refridgerator Room