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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : AE1-CTY 3.2.Z-PR-DOCK-DES-ODC - 60693795-1719206

AECOM

605 3rd Avenue

29th Floor

New York, NY - 10158

Phone No: 212-973-2900

ORDER ID : Q3393

ATTENTION : Rob Forstner

Laboratory Certification ID # 20012

Table Of Contents for Q3393

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 24
- 9.4) GS/MS Tune Summary 27
- 9.5) Internal Standard Area and RT Summary 32

10) Sample Data 38

- 10.1) PR132-S10-000022-20251017 39
- 10.2) PR132-S10-022047-20251017 61
- 10.3) PR132-S08-013038-20251017 82
- 10.4) PR132-S06-000021-20251017 102
- 10.5) PR132-S08-000013-20251017 119

11) Calibration Data Summary 142

- 11.1) Initial Calibration Data 143
  - 11.1.1) VW100125 143
  - 11.1.2) VY100725 518
- 11.2) Continued Calibration Data 892
  - 11.2.1) VW032378.D 892
  - 11.2.2) VY023495.D 952
  - 11.2.3) VY023521.D 1012

12) QC Sample Data 1072

- 12.1) Tune Raw Data 1073
- 12.2) Method Blank Data 1078
- 12.3) LCS Data 1114
- 12.4) LCSD Data 1276

13) Manual Integration 1330

14) Analytical Runlogs 1336

15) Percent Solid 1352
16) Standard Prep Logs 1354
17) VOC Preservation Log 1435
18) Shipping Document 1436
18.1) Chain Of Custody 1437
18.2) Lab Certificate 1438
18.3) Internal COC 1439

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

Cover Page

Order ID : Q3393

Project ID : AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206

Client : AECOM

Lab Sample Number	Client Sample Number
Q3393-01	PR132-S10-000022-20251017
Q3393-02	PR132-S10-022047-20251017
Q3393-03	PR132-S08-013038-20251017
Q3393-04	PR132-S06-000021-20251017
Q3393-05	PR132-S08-000013-20251017

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 10:44 am, Oct 31, 2025

Date: 10/28/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

AECOM
Project Name: AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Project # N/A
Order ID # Q3393
Test Name: VOC-TCLVOA-10

A. Number of Samples and Date of Receipt:
5 Solid samples were received on 10/17/2025.

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_W were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.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 {VW1020SBSD01} with File ID: VW032381.D met criteria except for 1,2-Dibromo-3-Chloropropane[22%], 2-Butanone[22%] due to difference in results of BS and BSD.

The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82W100125S.M) for Methylene chloride passing on Linear regression.

The Continuous Calibration File ID VW032378.D met the requirements except for Bromoform and Dibromochloromethane are failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

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

E. Additional Comments:
The Sample #PR132-S08-013038-20251017, PR132-S06-000021-20251017 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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.

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

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

Signature___ APPROVED
By Nimisha Pandya, QA/QC Supervisor at 10:47 am, Oct 31, 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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3393 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 %RSD is greater than 20% in the Initial Calibration method (82W100125S.M) for Methylene chloride passing on Linear regression. The Continuous Calibration File ID VW032378.D met the requirements except for Bromoform and Dibromochloromethane 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 RPD for {VW1020SBSD01} with File ID: VW032381.D met criteria except for 1,2-Dibromo-3-Chloropropane[22%], 2-Butanone[22%] due to difference in results of BS and BSD.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

NA NO YES

ADDITIONAL COMMENTS:

The Sample #PR132-S08-013038-20251017, PR132-S06-000021-20251017 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

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

REVIEWED
By Sohil Jodhani, QA/QC Director at 10:10 am, Oct 31, 2025

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3393

	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: SHREENA PATEL **Date:** 10/28/2025

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

LAB CHRONICLE

OrderID:	Q3393	**OrderDate:**	10/17/2025 4:23:00 PM
Client:	AECOM	**Project:**	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206
Contact:	Rob Forstner	**Location:**	D31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3393-01	**PR132-S10-000022-2 0251017**	**SOIL**			**10/17/25**			**10/17/25**
			VOC-TCLVOA-10	8260D			10/20/25	
Q3393-02	**PR132-S10-022047-2 0251017**	**SOIL**			**10/17/25**			**10/17/25**
			VOC-TCLVOA-10	8260D			10/20/25	
Q3393-03	**PR132-S08-013038-2 0251017**	**SOIL**			**10/17/25**			**10/17/25**
			VOC-TCLVOA-10	8260D			10/21/25	
Q3393-04	**PR132-S06-000021-2 0251017**	**SOIL**			**10/17/25**			**10/17/25**
			VOC-TCLVOA-10	8260D			10/20/25	
Q3393-05	**PR132-S08-000013-2 0251017**	**SOIL**			**10/17/25**			**10/17/25**
			VOC-TCLVOA-10	8260D			10/20/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q3393

Client: AECOM

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID:	**PR132-S10-000022-20251017**								
Q3393-01	PR132-S10-000022	SOIL	Acetone		270		5.30	27.8	ug/Kg
Q3393-01	PR132-S10-000022	SOIL	Carbon Disulfide		26.1		1.20	5.60	ug/Kg
Q3393-01	PR132-S10-000022	SOIL	2-Butanone		73.2		7.30	27.8	ug/Kg
Q3393-01	PR132-S10-000022	SOIL	Benzene		1.40	J	0.88	5.60	ug/Kg
Q3393-01	PR132-S10-000022	SOIL	Ethyl Benzene		2.20	J	0.75	5.60	ug/Kg
Q3393-01	PR132-S10-000022	SOIL	m/p-Xylenes		8.30	J	1.40	11.1	ug/Kg
Q3393-01	PR132-S10-000022	SOIL	o-Xylene		13.1		0.91	5.60	ug/Kg
Q3393-01	PR132-S10-000022	SOIL	Isopropylbenzene		2.40	J	0.87	5.60	ug/Kg
			Total Voc :		397				
Q3393-01	PR132-S10-000022	SOIL	3-Heptene, 2,2,4,6,6-pentameth	*	140	J	0	0	ug/Kg
Q3393-01	PR132-S10-000022	SOIL	Octane, 2,6-dimethyl-	*	48.3	J	0	0	ug/Kg
Q3393-01	PR132-S10-000022	SOIL	Undecane, 2,6-dimethyl-	*	80.5	J	0	0	ug/Kg
Q3393-01	PR132-S10-000022	SOIL	n-propylbenzene	*	2.30	J	0.81	5.60	ug/Kg
Q3393-01	PR132-S10-000022	SOIL	1,3,5-Trimethylbenzene	*	2.50	J	0.91	5.60	ug/Kg
Q3393-01	PR132-S10-000022	SOIL	1,2,4-Trimethylbenzene	*	6.50	J	0.71	5.60	ug/Kg
			Total Tics :		280				
			Total Concentration:		677				
Client ID:	**PR132-S10-022047-20251017**								
Q3393-02	PR132-S10-022047	SOIL	Acetone		430		8.90	47.1	ug/Kg
Q3393-02	PR132-S10-022047	SOIL	Carbon Disulfide		16.0		2.00	9.40	ug/Kg
Q3393-02	PR132-S10-022047	SOIL	2-Butanone		140		12.3	47.1	ug/Kg
Q3393-02	PR132-S10-022047	SOIL	Methylcyclohexane		25.3		1.70	9.40	ug/Kg
			Total Voc :		611				
Q3393-02	PR132-S10-022047	SOIL	Heptane, 2,6-dimethyl-	*	140	J	0	0	ug/Kg
Q3393-02	PR132-S10-022047	SOIL	Octane, 2,6-dimethyl-	*	230	J	0	0	ug/Kg
Q3393-02	PR132-S10-022047	SOIL	Cyclohexane, 1,1,3-trimethyl-	*	160	J	0	0	ug/Kg
Q3393-02	PR132-S10-022047	SOIL	Octane, 2-methyl-	*	240	J	0	0	ug/Kg
Q3393-02	PR132-S10-022047	SOIL	Undecane, 2,6-dimethyl-	*	300	J	0	0	ug/Kg
Q3393-02	PR132-S10-022047	SOIL	Tridecane, 7-methyl-	*	300	J	0	0	ug/Kg
			Total Tics :		1370				
			Total Concentration:		1980				
Client ID:	**PR132-S08-013038-20251017**								
Q3393-03	PR132-S08-013038	SOIL	Acetone		78.3		9.00	47.3	ug/Kg
Q3393-03	PR132-S08-013038	SOIL	Carbon Disulfide		2.70	J	2.00	9.50	ug/Kg
Q3393-03	PR132-S08-013038	SOIL	2-Butanone		22.5	J	12.4	47.3	ug/Kg
Q3393-03	PR132-S08-013038	SOIL	Methylcyclohexane		18.6		1.70	9.50	ug/Kg

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

Hit Summary Sheet
SW-846

SDG No.: Q3393

Client: AECOM

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
			Total Voc :		122				
Q3393-03	PR132-S08-013038	SOIL	Naphthalene, decahydro-	*	89.9	J	0	0	ug/Kg
Q3393-03	PR132-S08-013038	SOIL	Octane, 2,6-dimethyl-	*	85.5	J	0	0	ug/Kg
Q3393-03	PR132-S08-013038	SOIL	Cyclohexane, 1,1,3-trimethyl-	*	110	J	0	0	ug/Kg
Q3393-03	PR132-S08-013038	SOIL	Undecane, 2,6-dimethyl-	*	130	J	0	0	ug/Kg
Q3393-03	PR132-S08-013038	SOIL	1,2,4-Trimethylbenzene	*	4.20	J	1.20	9.50	ug/Kg
			Total Tics :		420				
			Total Concentration:		542				
Client ID:	**PR132-S06-000021-20251017**								
Q3393-04	PR132-S06-000021	SOIL	Acetone		64.4		9.10	48.2	ug/Kg
Q3393-04	PR132-S06-000021	SOIL	Carbon Disulfide		14.7		2.00	9.60	ug/Kg
Q3393-04	PR132-S06-000021	SOIL	2-Butanone		18.9	J	12.6	48.2	ug/Kg
			Total Voc :		98.0				
Q3393-04	PR132-S06-000021	SOIL	3-Heptene, 2,2,4,6,6-pentameth	*	74.0	J	0	0	ug/Kg
Q3393-04	PR132-S06-000021	SOIL	Naphthalene, decahydro-2-metl	*	67.2	J	0	0	ug/Kg
			Total Tics :		141				
			Total Concentration:		239				
Client ID:	**PR132-S08-000013-20251017**								
Q3393-05	PR132-S08-000013	SOIL	Acetone		110		14.8	78.0	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	Carbon Disulfide		22.5		3.30	15.6	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	2-Butanone		35.7	J	20.4	78.0	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	Methylcyclohexane		14.1	J	2.80	15.6	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	Benzene		7.90	J	2.50	15.6	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	Ethyl Benzene		11.3	J	2.10	15.6	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	m/p-Xylenes		16.3	J	3.90	31.2	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	o-Xylene		9.40	J	2.60	15.6	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	Isopropylbenzene		5.90	J	2.40	15.6	ug/Kg
			Total Voc :		233				
Q3393-05	PR132-S08-000013	SOIL	Naphthalene, decahydro-	*	170	J	0	0	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	3-Heptene, 2,2,4,6,6-pentameth	*	350	J	0	0	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	Heptane, 2,2,6,6-tetramethyl-4-	*	340	J	0	0	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	Undecane, 2,6-dimethyl-	*	180	J	0	0	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	trans-Decalin, 2-methyl-	*	190	J	0	0	ug/Kg
Q3393-05	PR132-S08-000013	SOIL	1,2,4-Trimethylbenzene	*	24.8	J	2.00	15.6	ug/Kg
			Total Tics :		1250				
			Total Concentration:		1490				

QC SUMMARY

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

Surrogate Summary

SDG No.: Q3393

Client: AECOM

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q3393-01	PR132-S10-000022-20251017	1,2-Dichloroethane-d4	50	64.3	129		63	155
		Dibromofluoromethane	50	55.1	110		70	134
		Toluene-d8	50	53.7	107		74	123
		4-Bromofluorobenzene	50	57.4	115		17	146
Q3393-02	PR132-S10-022047-20251017	1,2-Dichloroethane-d4	50	63.1	126		63	155
		Dibromofluoromethane	50	53.7	107		70	134
		Toluene-d8	50	54.5	109		74	123
		4-Bromofluorobenzene	50	66.4	133		17	146
Q3393-03	PR132-S08-013038-20251017	1,2-Dichloroethane-d4	50	53.8	108		63	155
		Dibromofluoromethane	50	50.8	102		70	134
		Toluene-d8	50	51.6	103		74	123
		4-Bromofluorobenzene	50	45.2	90		17	146
Q3393-04	PR132-S06-000021-20251017	1,2-Dichloroethane-d4	50	56.5	113		63	155
		Dibromofluoromethane	50	52.2	104		70	134
		Toluene-d8	50	52.4	105		74	123
		4-Bromofluorobenzene	50	50.0	100		17	146
Q3393-05	PR132-S08-000013-20251017	1,2-Dichloroethane-d4	50	51.8	104		63	155
		Dibromofluoromethane	50	50.0	100		70	134
		Toluene-d8	50	49.9	100		74	123
		4-Bromofluorobenzene	50	45.6	91		17	146
VW1020SBL01	VW1020SBL01	1,2-Dichloroethane-d4	50	65.7	131		63	155
		Dibromofluoromethane	50	58.2	116		70	134
		Toluene-d8	50	54.5	109		74	123
		4-Bromofluorobenzene	50	51.8	104		17	146
VW1020SBS01	VW1020SBS01	1,2-Dichloroethane-d4	50	52.1	104		63	155
		Dibromofluoromethane	50	53.3	107		70	134
		Toluene-d8	50	53.0	106		74	123
		4-Bromofluorobenzene	50	51.7	103		17	146
VW1020SBSD0	VW1020SBSD01	1,2-Dichloroethane-d4	50	53.1	106		63	155
		Dibromofluoromethane	50	54.5	109		70	134
		Toluene-d8	50	54.5	109		74	123
		4-Bromofluorobenzene	50	52.8	106		17	146
VY1020SBL01	VY1020SBL01	1,2-Dichloroethane-d4	50	49.7	99		63	155
		Dibromofluoromethane	50	51.4	103		70	134
		Toluene-d8	50	49.0	98		74	123
		4-Bromofluorobenzene	50	40.6	81		17	146
VY1020SBS01	VY1020SBS01	1,2-Dichloroethane-d4	50	46.1	92		63	155
		Dibromofluoromethane	50	50.4	101		70	134
		Toluene-d8	50	50.2	100		74	123
		4-Bromofluorobenzene	50	49.4	99		17	146
VY1021SBL01	VY1021SBL01	1,2-Dichloroethane-d4	50	46.0	92		63	155
		Dibromofluoromethane	50	49.7	99		70	134
		Toluene-d8	50	48.1	96		74	123
		4-Bromofluorobenzene	50	36.4	73		17	146
VY1021SBS01	VY1021SBS01	1,2-Dichloroethane-d4	50	46.9	94		63	155
		Dibromofluoromethane	50	50.9	102		70	134
		Toluene-d8	50	51.3	103		74	123
		4-Bromofluorobenzene	50	49.9	100		17	146

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3393 **Analytical Method:** SW8260D

Client: AECOM **Datafile :** VW032380.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW1020SBS01	Dichlorodifluoromethane	20	19.9	ug/Kg	100			64	136	
	Chloromethane	20	20.1	ug/Kg	101			52	151	
	Vinyl chloride	20	22.1	ug/Kg	111			56	148	
	Bromomethane	20	21.1	ug/Kg	106			58	141	
	Chloroethane	20	21.4	ug/Kg	107			69	130	
	Trichlorofluoromethane	20	19.4	ug/Kg	97			69	134	
	1,1,2-Trichlorotrifluoroethane	20	20.9	ug/Kg	104			81	123	
	1,1-Dichloroethene	20	21.7	ug/Kg	109			79	121	
	Acetone	100	97.1	ug/Kg	97			40	171	
	Carbon disulfide	20	21.1	ug/Kg	106			59	130	
	Methyl tert-butyl Ether	20	19.0	ug/Kg	95			77	129	
	Methyl Acetate	20	17.5	ug/Kg	88			69	149	
	Methylene Chloride	20	19.0	ug/Kg	95			72	131	
	trans-1,2-Dichloroethene	20	21.0	ug/Kg	105			80	123	
	1,1-Dichloroethane	20	20.8	ug/Kg	104			82	123	
	Cyclohexane	20	19.2	ug/Kg	96			76	122	
	2-Butanone	100	87.6	ug/Kg	88			69	131	
	Carbon Tetrachloride	20	22.0	ug/Kg	110			76	129	
	cis-1,2-Dichloroethene	20	20.3	ug/Kg	102			82	123	
	Bromochloromethane	20	20.8	ug/Kg	104			80	127	
	Chloroform	20	21.5	ug/Kg	108			82	125	
	1,1,1-Trichloroethane	20	21.5	ug/Kg	108			80	126	
	Methylcyclohexane	20	19.3	ug/Kg	97			77	123	
	Benzene	20	20.9	ug/Kg	104			84	121	
	1,2-Dichloroethane	20	20.6	ug/Kg	103			81	126	
	Trichloroethene	20	20.3	ug/Kg	102			83	122	
	1,2-Dichloropropane	20	21.0	ug/Kg	105			83	122	
	Bromodichloromethane	20	22.0	ug/Kg	110			82	123	
	4-Methyl-2-Pentanone	100	92.3	ug/Kg	92			70	135	
	Toluene	20	20.8	ug/Kg	104			83	122	
	t-1,3-Dichloropropene	20	20.2	ug/Kg	101			78	124	
	cis-1,3-Dichloropropene	20	20.7	ug/Kg	104			81	122	
	1,1,2-Trichloroethane	20	20.7	ug/Kg	104			82	125	
	2-Hexanone	100	92.8	ug/Kg	93			66	138	
	Dibromochloromethane	20	21.7	ug/Kg	109			79	125	
	1,2-Dibromoethane	20	20.3	ug/Kg	102			80	125	
	Tetrachloroethene	20	20.1	ug/Kg	101			83	125	
	Chlorobenzene	20	20.2	ug/Kg	101			84	122	
	Ethyl Benzene	20	20.5	ug/Kg	103			82	124	
	m/p-Xylenes	40	41.2	ug/Kg	103			83	124	
	o-Xylene	20	19.8	ug/Kg	99			83	123	
	Styrene	20	21.1	ug/Kg	106			82	124	
	Bromoform	20	21.5	ug/Kg	108			75	127	
	Isopropylbenzene	20	19.8	ug/Kg	99			82	124	
	1,1,2,2-Tetrachloroethane	20	18.9	ug/Kg	95			77	127	
	1,3-Dichlorobenzene	20	20.4	ug/Kg	102			83	122	
	1,4-Dichlorobenzene	20	20.3	ug/Kg	102			84	121	
	1,2-Dichlorobenzene	20	20.0	ug/Kg	100			83	124	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3393 **Analytical Method:** SW8260D

Client: AECOM **Datafile :** VW032380.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW1020SBS01	1,2-Dibromo-3-Chloropropane	20	18.4	ug/Kg	92			66	134	
	1,2,4-Trichlorobenzene	20	19.2	ug/Kg	96			78	127	
	1,2,3-Trichlorobenzene	20	19.0	ug/Kg	95			70	137	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3393 **Analytical Method:** SW8260D

Client: AECOM **Datafile :** VW032381.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW1020SBSD01	Dichlorodifluoromethane	20	21.7	ug/Kg	109	9		64	136	20
	Chloromethane	20	20.0	ug/Kg	100	1		52	151	20
	Vinyl chloride	20	21.4	ug/Kg	107	4		56	148	20
	Bromomethane	20	21.7	ug/Kg	109	3		58	141	20
	Chloroethane	20	21.6	ug/Kg	108	1		69	130	20
	Trichlorofluoromethane	20	21.6	ug/Kg	108	11		69	134	20
	1,1,2-Trichlorotrifluoroethane	20	20.6	ug/Kg	103	1		81	123	20
	1,1-Dichloroethene	20	21.6	ug/Kg	108	1		79	121	20
	Acetone	100	110	ug/Kg	110	13		40	171	20
	Carbon disulfide	20	21.6	ug/Kg	108	2		59	130	20
	Methyl tert-butyl Ether	20	21.3	ug/Kg	106	11		77	129	20
	Methyl Acetate	20	20.9	ug/Kg	104	17		69	149	20
	Methylene Chloride	20	19.5	ug/Kg	98	3		72	131	20
	trans-1,2-Dichloroethene	20	21.5	ug/Kg	108	3		80	123	20
	1,1-Dichloroethane	20	21.5	ug/Kg	108	4		82	123	20
	Cyclohexane	20	19.7	ug/Kg	99	3		76	122	20
	2-Butanone	100	110	ug/Kg	110	22	*	69	131	20
	Carbon Tetrachloride	20	22.3	ug/Kg	112	2		76	129	20
	cis-1,2-Dichloroethene	20	21.2	ug/Kg	106	4		82	123	20
	Bromochloromethane	20	21.5	ug/Kg	108	4		80	127	20
	Chloroform	20	22.5	ug/Kg	113	5		82	125	20
	1,1,1-Trichloroethane	20	22.4	ug/Kg	112	4		80	126	20
	Methylcyclohexane	20	19.4	ug/Kg	97	0		77	123	20
	Benzene	20	21.8	ug/Kg	109	5		84	121	20
	1,2-Dichloroethane	20	22.0	ug/Kg	110	7		81	126	20
	Trichloroethene	20	21.9	ug/Kg	110	8		83	122	20
	1,2-Dichloropropane	20	22.2	ug/Kg	111	6		83	122	20
	Bromodichloromethane	20	23.0	ug/Kg	115	4		82	123	20
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	18		70	135	20
	Toluene	20	22.5	ug/Kg	113	8		83	122	20
	t-1,3-Dichloropropene	20	22.6	ug/Kg	113	11		78	124	20
	cis-1,3-Dichloropropene	20	22.1	ug/Kg	111	7		81	122	20
	1,1,2-Trichloroethane	20	22.6	ug/Kg	113	8		82	125	20
	2-Hexanone	100	110	ug/Kg	110	17		66	138	20
	Dibromochloromethane	20	23.9	ug/Kg	119	9		79	125	20
	1,2-Dibromoethane	20	22.8	ug/Kg	114	11		80	125	20
	Tetrachloroethene	20	21.7	ug/Kg	109	8		83	125	20
	Chlorobenzene	20	21.3	ug/Kg	106	5		84	122	20
	Ethyl Benzene	20	20.6	ug/Kg	103	0		82	124	20
	m/p-Xylenes	40	42.2	ug/Kg	106	3		83	124	20
	o-Xylene	20	20.7	ug/Kg	104	5		83	123	20
	Styrene	20	21.8	ug/Kg	109	3		82	124	20
	Bromoform	20	23.5	ug/Kg	117	8		75	127	20
	Isopropylbenzene	20	19.8	ug/Kg	99	0		82	124	20
	1,1,2,2-Tetrachloroethane	20	21.8	ug/Kg	109	14		77	127	20
	1,3-Dichlorobenzene	20	21.5	ug/Kg	108	6		83	122	20
	1,4-Dichlorobenzene	20	21.0	ug/Kg	105	3		84	121	20
	1,2-Dichlorobenzene	20	21.3	ug/Kg	106	6		83	124	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3393**	**Analytical Method:**	**SW8260D**
Client:	**AECOM**	**Datafile :**	VW032381.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VW1020SBSD01	1,2-Dibromo-3-Chloropropane	20	23.0	ug/Kg	115	22	*	66	134	20
	1,2,4-Trichlorobenzene	20	20.3	ug/Kg	102	6		78	127	20
	1,2,3-Trichlorobenzene	20	20.9	ug/Kg	104	9		70	137	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3393 **Analytical Method:** SW8260D

Client: AECOM **Datafile :** VY023497.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1020SBS01	Dichlorodifluoromethane	20	20.6	ug/Kg	103			64	136	
	Chloromethane	20	18.9	ug/Kg	95			52	151	
	Vinyl chloride	20	19.6	ug/Kg	98			56	148	
	Bromomethane	20	21.0	ug/Kg	105			58	141	
	Chloroethane	20	20.2	ug/Kg	101			69	130	
	Trichlorofluoromethane	20	20.8	ug/Kg	104			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.8	ug/Kg	109			81	123	
	1,1-Dichloroethene	20	20.7	ug/Kg	104			79	121	
	Acetone	100	130	ug/Kg	130			40	171	
	Carbon disulfide	20	20.2	ug/Kg	101			59	130	
	Methyl tert-butyl Ether	20	19.0	ug/Kg	95			77	129	
	Methyl Acetate	20	16.3	ug/Kg	81			69	149	
	Methylene Chloride	20	19.0	ug/Kg	95			72	131	
	trans-1,2-Dichloroethene	20	20.8	ug/Kg	104			80	123	
	1,1-Dichloroethane	20	20.3	ug/Kg	102			82	123	
	Cyclohexane	20	19.0	ug/Kg	95			76	122	
	2-Butanone	100	110	ug/Kg	110			69	131	
	Carbon Tetrachloride	20	22.5	ug/Kg	113			76	129	
	cis-1,2-Dichloroethene	20	20.4	ug/Kg	102			82	123	
	Bromochloromethane	20	20.1	ug/Kg	101			80	127	
	Chloroform	20	20.8	ug/Kg	104			82	125	
	1,1,1-Trichloroethane	20	20.9	ug/Kg	104			80	126	
	Methylcyclohexane	20	20.4	ug/Kg	102			77	123	
	Benzene	20	21.3	ug/Kg	106			84	121	
	1,2-Dichloroethane	20	20.7	ug/Kg	104			81	126	
	Trichloroethene	20	22.2	ug/Kg	111			83	122	
	1,2-Dichloropropane	20	21.1	ug/Kg	106			83	122	
	Bromodichloromethane	20	21.7	ug/Kg	109			82	123	
	4-Methyl-2-Pentanone	100	97.8	ug/Kg	98			70	135	
	Toluene	20	21.7	ug/Kg	109			83	122	
	t-1,3-Dichloropropene	20	20.5	ug/Kg	103			78	124	
	cis-1,3-Dichloropropene	20	21.0	ug/Kg	105			81	122	
	1,1,2-Trichloroethane	20	21.9	ug/Kg	110			82	125	
	2-Hexanone	100	110	ug/Kg	110			66	138	
	Dibromochloromethane	20	22.0	ug/Kg	110			79	125	
	1,2-Dibromoethane	20	21.1	ug/Kg	106			80	125	
	Tetrachloroethene	20	22.2	ug/Kg	111			83	125	
	Chlorobenzene	20	21.0	ug/Kg	105			84	122	
	Ethyl Benzene	20	20.4	ug/Kg	102			82	124	
	m/p-Xylenes	40	42.2	ug/Kg	106			83	124	
	o-Xylene	20	20.5	ug/Kg	103			83	123	
	Styrene	20	21.2	ug/Kg	106			82	124	
	Bromoform	20	21.9	ug/Kg	110			75	127	
	Isopropylbenzene	20	20.3	ug/Kg	102			82	124	
	1,1,2,2-Tetrachloroethane	20	19.5	ug/Kg	98			77	127	
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103			83	122	
	1,4-Dichlorobenzene	20	20.6	ug/Kg	103			84	121	
	1,2-Dichlorobenzene	20	20.6	ug/Kg	103			83	124	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	**Q3393**	**Analytical Method:**	**SW8260D**
Client:	**AECOM**	**Datafile :**	VY023497.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1020SBS01	1,2-Dibromo-3-Chloropropane	20	19.0	ug/Kg	95			66	134	
	1,2,4-Trichlorobenzene	20	19.4	ug/Kg	97			78	127	
	1,2,3-Trichlorobenzene	20	18.8	ug/Kg	94			70	137	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3393 **Analytical Method:** SW8260D

Client: AECOM **Datafile :** VY023523.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1021SBS01	Dichlorodifluoromethane	20	20.3	ug/Kg	102			64	136	
	Chloromethane	20	19.5	ug/Kg	98			52	151	
	Vinyl chloride	20	20.2	ug/Kg	101			56	148	
	Bromomethane	20	21.5	ug/Kg	108			58	141	
	Chloroethane	20	21.2	ug/Kg	106			69	130	
	Trichlorofluoromethane	20	20.4	ug/Kg	102			69	134	
	1,1,2-Trichlorotrifluoroethane	20	21.1	ug/Kg	106			81	123	
	1,1-Dichloroethene	20	20.2	ug/Kg	101			79	121	
	Acetone	100	120	ug/Kg	120			40	171	
	Carbon disulfide	20	20.2	ug/Kg	101			59	130	
	Methyl tert-butyl Ether	20	18.0	ug/Kg	90			77	129	
	Methyl Acetate	20	15.9	ug/Kg	79			69	149	
	Methylene Chloride	20	19.0	ug/Kg	95			72	131	
	trans-1,2-Dichloroethene	20	21.0	ug/Kg	105			80	123	
	1,1-Dichloroethane	20	20.5	ug/Kg	103			82	123	
	Cyclohexane	20	18.8	ug/Kg	94			76	122	
	2-Butanone	100	100	ug/Kg	100			69	131	
	Carbon Tetrachloride	20	21.7	ug/Kg	109			76	129	
	cis-1,2-Dichloroethene	20	20.7	ug/Kg	104			82	123	
	Bromochloromethane	20	19.7	ug/Kg	99			80	127	
	Chloroform	20	21.5	ug/Kg	108			82	125	
	1,1,1-Trichloroethane	20	21.1	ug/Kg	106			80	126	
	Methylcyclohexane	20	19.8	ug/Kg	99			77	123	
	Benzene	20	21.6	ug/Kg	108			84	121	
	1,2-Dichloroethane	20	20.0	ug/Kg	100			81	126	
	Trichloroethene	20	21.9	ug/Kg	110			83	122	
	1,2-Dichloropropane	20	21.5	ug/Kg	108			83	122	
	Bromodichloromethane	20	21.3	ug/Kg	106			82	123	
	4-Methyl-2-Pentanone	100	86.7	ug/Kg	87			70	135	
	Toluene	20	21.9	ug/Kg	110			83	122	
	t-1,3-Dichloropropene	20	19.9	ug/Kg	100			78	124	
	cis-1,3-Dichloropropene	20	20.8	ug/Kg	104			81	122	
	1,1,2-Trichloroethane	20	21.0	ug/Kg	105			82	125	
	2-Hexanone	100	95.9	ug/Kg	96			66	138	
	Dibromochloromethane	20	20.8	ug/Kg	104			79	125	
	1,2-Dibromoethane	20	20.1	ug/Kg	101			80	125	
	Tetrachloroethene	20	22.0	ug/Kg	110			83	125	
	Chlorobenzene	20	21.2	ug/Kg	106			84	122	
	Ethyl Benzene	20	21.0	ug/Kg	105			82	124	
	m/p-Xylenes	40	43.1	ug/Kg	108			83	124	
	o-Xylene	20	20.6	ug/Kg	103			83	123	
	Styrene	20	21.0	ug/Kg	105			82	124	
	Bromoform	20	19.5	ug/Kg	98			75	127	
	Isopropylbenzene	20	20.3	ug/Kg	102			82	124	
	1,1,2,2-Tetrachloroethane	20	18.2	ug/Kg	91			77	127	
	1,3-Dichlorobenzene	20	20.7	ug/Kg	104			83	122	
	1,4-Dichlorobenzene	20	20.5	ug/Kg	103			84	121	
	1,2-Dichlorobenzene	20	20.5	ug/Kg	103			83	124	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3393 **Analytical Method:** SW8260D

Client: AECOM **Datafile :** VY023523.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1021SBS01	1,2-Dibromo-3-Chloropropane	20	17.0	ug/Kg	85			66	134	
	1,2,4-Trichlorobenzene	20	18.0	ug/Kg	90			78	127	
	1,2,3-Trichlorobenzene	20	18.1	ug/Kg	91			70	137	

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VW1020SBL01

Lab Name: Alliance Contract: AECO02

Lab Code: ACE SDG NO.: Q3393

Lab File ID: VW032379.D Lab Sample ID: VW1020SBL01

Date Analyzed: 10/20/2025 Time Analyzed: 11:11

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

Instrument ID: MSVOA_W

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VW1020SBS01	VW1020SBS01	VW032380.D	10/20/2025
VW1020SBSD01	VW1020SBSD01	VW032381.D	10/20/2025
PR132-S10-000022-20251017	Q3393-01	VW032393.D	10/20/2025
PR132-S10-022047-20251017	Q3393-02	VW032394.D	10/20/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VY1020SBL01

Lab Name: Alliance Contract: AECO02

Lab Code: ACE SDG NO.: Q3393

Lab File ID: VY023496.D Lab Sample ID: VY1020SBL01

Date Analyzed: 10/20/2025 Time Analyzed: 09:37

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
VY1020SBS01	VY1020SBS01	VY023497.D	10/20/2025
PR132-S06-000021-20251017	Q3393-04	VY023516.D	10/20/2025
PR132-S08-000013-20251017	Q3393-05	VY023517.D	10/20/2025

COMMENTS:

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

VOLATILE METHOD BLANK SUMMARY

Client ID: VY1021SBL01

Lab Name: Alliance | Contract: AECO02

Lab Code: ACE | SDG NO.: Q3393

Lab File ID: VY023522.D | Lab Sample ID: VY1021SBL01

Date Analyzed: 10/21/2025 | Time Analyzed: 09:34

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
VY1021SBS01	VY1021SBS01	VY023523.D	10/21/2025
PR132-S08-013038-20251017	Q3393-03	VY023529.D	10/21/2025

COMMENTS:

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: AECO02
Lab Code: ACE
SDG NO.: Q3393
Lab File ID: VW032312.D
BFB Injection Date: 10/01/2025
Instrument ID: MSVOA_W
BFB Injection Time: 08:12
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	19.3
75	30.0 - 60.0% of mass 95	51.1
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	0.0 (0.0) 1
174	50.0 - 100.0% of mass 95	66.2
175	5.0 - 9.0% of mass 174	5.3 (8) 1
176	95.0 - 101.0% of mass 174	63.3 (95.6) 1
177	5.0 - 9.0% of mass 176	4.2 (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	VW032313.D	10/01/2025	13:12
VSTDICC010	VSTDICC010	VW032314.D	10/01/2025	13:34
VSTDICC020	VSTDICC020	VW032315.D	10/01/2025	14:15
VSTDICCC050	VSTDICCC050	VW032316.D	10/01/2025	14:37
VSTDICC100	VSTDICC100	VW032317.D	10/01/2025	14:59
VSTDICC150	VSTDICC150	VW032318.D	10/01/2025	15:20

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: AECO02

Lab Code: ACE | SDG NO.: Q3393

Lab File ID: VW032377.D | BFB Injection Date: 10/20/2025

Instrument ID: MSVOA_W | BFB Injection Time: 09:36

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	18.6
75	30.0 - 60.0% of mass 95	51.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.3 (0.5) 1
174	50.0 - 100.0% of mass 95	66.2
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	63.7 (96.2) 1
177	5.0 - 9.0% of mass 176	4.5 (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	VW032378.D	10/20/2025	10:20
VW1020SBL01	VW1020SBL01	VW032379.D	10/20/2025	11:11
VW1020SBS01	VW1020SBS01	VW032380.D	10/20/2025	11:41
VW1020SBSD01	VW1020SBSD01	VW032381.D	10/20/2025	12:03
PR132-S10-000022-20251017	Q3393-01	VW032393.D	10/20/2025	16:46
PR132-S10-022047-20251017	Q3393-02	VW032394.D	10/20/2025	17:08

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: AECO02

Lab Code: ACE | SDG NO.: Q3393

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

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance | Contract: AECO02

Lab Code: ACE | SDG NO.: Q3393

Lab File ID: VY023494.D | BFB Injection Date: 10/20/2025

Instrument ID: MSVOA_Y | BFB Injection Time: 08:38

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	16.2
75	30.0 - 60.0% of mass 95	47.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.1) 1
174	50.0 - 100.0% of mass 95	98.3
175	5.0 - 9.0% of mass 174	7.1 (7.2) 1
176	95.0 - 101.0% of mass 174	94.5 (96.2) 1
177	5.0 - 9.0% of mass 176	6.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY023495.D	10/20/2025	09:10
VY1020SBL01	VY1020SBL01	VY023496.D	10/20/2025	09:37
VY1020SBS01	VY1020SBS01	VY023497.D	10/20/2025	10:07
PR132-S06-000021-20251017	Q3393-04	VY023516.D	10/20/2025	18:09
PR132-S08-000013-20251017	Q3393-05	VY023517.D	10/20/2025	18:33

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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: AECO02
Lab Code: ACE
SDG NO.: Q3393
Lab File ID: VY023520.D
BFB Injection Date: 10/21/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 08:29
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	16.5
75	30.0 - 60.0% of mass 95	48.5
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	1.3 (1.4) 1
174	50.0 - 100.0% of mass 95	94.7
175	5.0 - 9.0% of mass 174	6.8 (7.1) 1
176	95.0 - 101.0% of mass 174	92.5 (97.7) 1
177	5.0 - 9.0% of mass 176	6.2 (6.7) 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	VY023521.D	10/21/2025	09:05
VY1021SBL01	VY1021SBL01	VY023522.D	10/21/2025	09:34
VY1021SBS01	VY1021SBS01	VY023523.D	10/21/2025	10:04
PR132-S08-013038-20251017	Q3393-03	VY023529.D	10/21/2025	12:38

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO02

Lab Code: ACE SDG NO.: Q3393

Lab File ID: VW032378.D Date Analyzed: 10/20/2025

Instrument ID: MSVOA_W Time Analyzed: 10:20

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	276051	7.97	500417	8.86	466876	11.63
UPPER LIMIT	552102	8.465	1000830	9.355	933752	12.129
LOWER LIMIT	138026	7.465	250209	8.355	233438	11.129
EPA SAMPLE NO.						
PR132-S10-000022-20251017	222878	7.96	495532	8.85	494383	11.63
PR132-S10-022047-20251017	231347	7.96	513228	8.86	507325	11.63
VW1020SBL01	172114	7.96	392797	8.85	400571	11.63
VW1020SBS01	280998	7.96	517149	8.85	480746	11.63
VW1020SBSD01	280654	7.96	507546	8.86	481210	11.63

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

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO02

Lab Code: ACE SDG NO.: Q3393

Lab File ID: VW032378.D Date Analyzed: 10/20/2025

Instrument ID: MSVOA_W Time Analyzed: 10:20

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

	IS4 AREA #	RT #				
12 HOUR STD	234766	13.556				
UPPER LIMIT	469532	14.056				
LOWER LIMIT	117383	13.056				
EPA SAMPLE NO.						
PR132-S10-000022-20251017	205827	13.56				
PR132-S10-022047-20251017	251321	13.56				
VW1020SBL01	188560	13.56				
VW1020SBS01	240746	13.56				
VW1020SBSD01	239754	13.56				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO02

Lab Code: ACE SDG NO.: Q3393

Lab File ID: VY023495.D Date Analyzed: 10/20/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:10

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	545120	7.71	751162	8.62	672052	11.42
UPPER LIMIT	1090240	8.213	1502320	9.116	1344100	11.92
LOWER LIMIT	272560	7.213	375581	8.116	336026	10.92
EPA SAMPLE NO.						
PR132-S06-000021-20251017	634815	7.71	1071621	8.62	942803	11.42
PR132-S08-000013-20251017	766180	7.71	1249126	8.62	1022154	11.41
VY1020SBL01	824447	7.71	1344685	8.62	1118365	11.42
VY1020SBS01	523739	7.71	742947	8.62	663321	11.42

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

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO02

Lab Code: ACE SDG NO.: Q3393

Lab File ID: VY023495.D Date Analyzed: 10/20/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:10

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

	IS4 AREA #	RT #				
12 HOUR STD	355668	13.346				
UPPER LIMIT	711336	13.846				
LOWER LIMIT	177834	12.846				
EPA SAMPLE NO.						
PR132-S06-000021-20251017	398037	13.35				
PR132-S08-000013-20251017	403478	13.35				
VY1020SBL01	444219	13.35				
VY1020SBS01	353337	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.

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: AECO02

Lab Code: ACE SDG NO.: Q3393

Lab File ID: VY023521.D Date Analyzed: 10/21/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:05

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	499961	7.71	698196	8.62	642915	11.42
UPPER LIMIT	999922	8.213	1396390	9.116	1285830	11.92
LOWER LIMIT	249981	7.213	349098	8.116	321458	10.92
EPA SAMPLE NO.						
PR132-S08-013038-20251017	730515	7.71	1210975	8.62	1010042	11.41
VY1021SBL01	767531	7.71	1271980	8.62	1000258	11.42
VY1021SBS01	494016	7.71	712868	8.62	635785	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,
Fax : 908 789 8922

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: AECO02

Lab Code: ACE SDG NO.: Q3393

Lab File ID: VY023521.D Date Analyzed: 10/21/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:05

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

	IS4 AREA #	RT #				
12 HOUR STD	341616	13.347				
UPPER LIMIT	683232	13.847				
LOWER LIMIT	170808	12.847				
EPA SAMPLE NO.						
PR132-S08-013038-20251017	384650	13.35				
VY1021SBL01	378610	13.35				
VY1021SBS01	341398	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:	AECOM	Date Collected:	10/17/25
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	10/17/25
Client Sample ID:	PR132-S10-000022-202510	SDG No.:	Q3393
Lab Sample ID:	Q3393-01	Matrix:	SOIL
Analytical Method:	8260D Level : LOW	% Solid:	56
Sample Wt/Vol:	8.02 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	5.60	U	1	1.30	5.60	ug/Kg	10/20/25 16:46	VW102025
74-87-3	Chloromethane	5.60	U	1	1.30	5.60	ug/Kg	10/20/25 16:46	VW102025
75-01-4	Vinyl Chloride	5.60	U	1	0.88	5.60	ug/Kg	10/20/25 16:46	VW102025
74-83-9	Bromomethane	5.60	U	1	1.20	5.60	ug/Kg	10/20/25 16:46	VW102025
75-00-3	Chloroethane	5.60	U	1	1.40	5.60	ug/Kg	10/20/25 16:46	VW102025
75-69-4	Trichlorofluoromethane	5.60	U	1	1.30	5.60	ug/Kg	10/20/25 16:46	VW102025
76-13-1	1,1,2-Trichlorotrifluoroethane	5.60	U	1	1.20	5.60	ug/Kg	10/20/25 16:46	VW102025
75-35-4	1,1-Dichloroethene	5.60	U	1	1.10	5.60	ug/Kg	10/20/25 16:46	VW102025
67-64-1	Acetone	270		1	5.30	27.8	ug/Kg	10/20/25 16:46	VW102025
75-15-0	Carbon Disulfide	26.1		1	1.20	5.60	ug/Kg	10/20/25 16:46	VW102025
1634-04-4	Methyl tert-butyl Ether	5.60	U	1	0.81	5.60	ug/Kg	10/20/25 16:46	VW102025
79-20-9	Methyl Acetate	5.60	U	1	1.70	5.60	ug/Kg	10/20/25 16:46	VW102025
75-09-2	Methylene Chloride	11.1	U	1	3.90	11.1	ug/Kg	10/20/25 16:46	VW102025
156-60-5	trans-1,2-Dichloroethene	5.60	U	1	0.96	5.60	ug/Kg	10/20/25 16:46	VW102025
75-34-3	1,1-Dichloroethane	5.60	U	1	0.89	5.60	ug/Kg	10/20/25 16:46	VW102025
110-82-7	Cyclohexane	5.60	U	1	0.88	5.60	ug/Kg	10/20/25 16:46	VW102025
78-93-3	2-Butanone	73.2		1	7.30	27.8	ug/Kg	10/20/25 16:46	VW102025
56-23-5	Carbon Tetrachloride	5.60	U	1	1.10	5.60	ug/Kg	10/20/25 16:46	VW102025
156-59-2	cis-1,2-Dichloroethene	5.60	U	1	0.83	5.60	ug/Kg	10/20/25 16:46	VW102025
74-97-5	Bromochloromethane	5.60	U	1	1.30	5.60	ug/Kg	10/20/25 16:46	VW102025
67-66-3	Chloroform	5.60	U	1	0.94	5.60	ug/Kg	10/20/25 16:46	VW102025
71-55-6	1,1,1-Trichloroethane	5.60	U	1	1.00	5.60	ug/Kg	10/20/25 16:46	VW102025
108-87-2	Methylcyclohexane	5.60	U	1	1.00	5.60	ug/Kg	10/20/25 16:46	VW102025
71-43-2	Benzene	1.40	J	1	0.88	5.60	ug/Kg	10/20/25 16:46	VW102025
107-06-2	1,2-Dichloroethane	5.60	U	1	0.88	5.60	ug/Kg	10/20/25 16:46	VW102025
79-01-6	Trichloroethene	5.60	U	1	0.90	5.60	ug/Kg	10/20/25 16:46	VW102025
78-87-5	1,2-Dichloropropane	5.60	U	1	1.00	5.60	ug/Kg	10/20/25 16:46	VW102025
75-27-4	Bromodichloromethane	5.60	U	1	0.87	5.60	ug/Kg	10/20/25 16:46	VW102025
108-10-1	4-Methyl-2-Pentanone	27.8	U	1	4.00	27.8	ug/Kg	10/20/25 16:46	VW102025
108-88-3	Toluene	5.60	U	1	0.87	5.60	ug/Kg	10/20/25 16:46	VW102025
10061-02-6	t-1,3-Dichloropropene	5.60	U	1	0.72	5.60	ug/Kg	10/20/25 16:46	VW102025
10061-01-5	cis-1,3-Dichloropropene	5.60	U	1	0.69	5.60	ug/Kg	10/20/25 16:46	VW102025
79-00-5	1,1,2-Trichloroethane	5.60	U	1	1.00	5.60	ug/Kg	10/20/25 16:46	VW102025
591-78-6	2-Hexanone	27.8	U	1	4.10	27.8	ug/Kg	10/20/25 16:46	VW102025
124-48-1	Dibromochloromethane	5.60	U	1	0.97	5.60	ug/Kg	10/20/25 16:46	VW102025
106-93-4	1,2-Dibromoethane	5.60	U	1	0.98	5.60	ug/Kg	10/20/25 16:46	VW102025
127-18-4	Tetrachloroethene	5.60	U	1	1.20	5.60	ug/Kg	10/20/25 16:46	VW102025
108-90-7	Chlorobenzene	5.60	U	1	1.00	5.60	ug/Kg	10/20/25 16:46	VW102025
100-41-4	Ethyl Benzene	2.20	J	1	0.75	5.60	ug/Kg	10/20/25 16:46	VW102025
179601-23-1	m/p-Xylenes	8.30	J	1	1.40	11.1	ug/Kg	10/20/25 16:46	VW102025
95-47-6	o-Xylene	13.1		1	0.91	5.60	ug/Kg	10/20/25 16:46	VW102025
100-42-5	Styrene	5.60	U	1	0.79	5.60	ug/Kg	10/20/25 16:46	VW102025
75-25-2	Bromoform	5.60	U	1	0.96	5.60	ug/Kg	10/20/25 16:46	VW102025

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

Report of Analysis

Client:	AECOM	Date Collected:	10/17/25
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	10/17/25
Client Sample ID:	PR132-S10-000022-202510	SDG No.:	Q3393
Lab Sample ID:	Q3393-01	Matrix:	SOIL
Analytical Method:	8260D Level : LOW	% Solid:	56
Sample Wt/Vol:	8.02 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	2.40	J	1	0.87	5.60	ug/Kg	10/20/25 16:46	VW102025
79-34-5	1,1,2,2-Tetrachloroethane	5.60	U	1	1.30	5.60	ug/Kg	10/20/25 16:46	VW102025
541-73-1	1,3-Dichlorobenzene	5.60	U	1	1.90	5.60	ug/Kg	10/20/25 16:46	VW102025
106-46-7	1,4-Dichlorobenzene	5.60	U	1	1.70	5.60	ug/Kg	10/20/25 16:46	VW102025
95-50-1	1,2-Dichlorobenzene	5.60	U	1	1.60	5.60	ug/Kg	10/20/25 16:46	VW102025
96-12-8	1,2-Dibromo-3-Chloropropane	5.60	U	1	2.00	5.60	ug/Kg	10/20/25 16:46	VW102025
120-82-1	1,2,4-Trichlorobenzene	5.60	U	1	3.30	5.60	ug/Kg	10/20/25 16:46	VW102025
87-61-6	1,2,3-Trichlorobenzene	5.60	U	1	3.50	5.60	ug/Kg	10/20/25 16:46	VW102025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	64.3			63 - 155	129%	SPK: 50		
1868-53-7	Dibromofluoromethane	55.1			70 - 134	110%	SPK: 50		
2037-26-5	Toluene-d8	53.7			74 - 123	107%	SPK: 50		
460-00-4	4-Bromofluorobenzene	57.4			17 - 146	115%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	223000							
540-36-3	1,4-Difluorobenzene	496000							
3114-55-4	Chlorobenzene-d5	494000							
3855-82-1	1,4-Dichlorobenzene-d4	206000							
TENTATIVE IDENTIFIED COMPOUNDS									
002051-30-1	Octane, 2,6-dimethyl-	48.3	J			12.3	ug/Kg		
103-65-1	n-propylbenzene	2.30	J			12.8	ug/Kg		
108-67-8	1,3,5-Trimethylbenzene	2.50	J			12.9	ug/Kg		
000123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	140	J			13.1	ug/Kg		
95-63-6	1,2,4-Trimethylbenzene	6.50	J			13.2	ug/Kg		
017301-23-4	Undecane, 2,6-dimethyl-	80.5	J			14.8	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_W\Data\VW102025\
Data File : VW032393.D
Acq On : 20 Oct 2025 16:46
Operator : SY/MD
Sample : Q3393-01
Misc : 8.02g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Quant Time: Oct 21 01:31:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

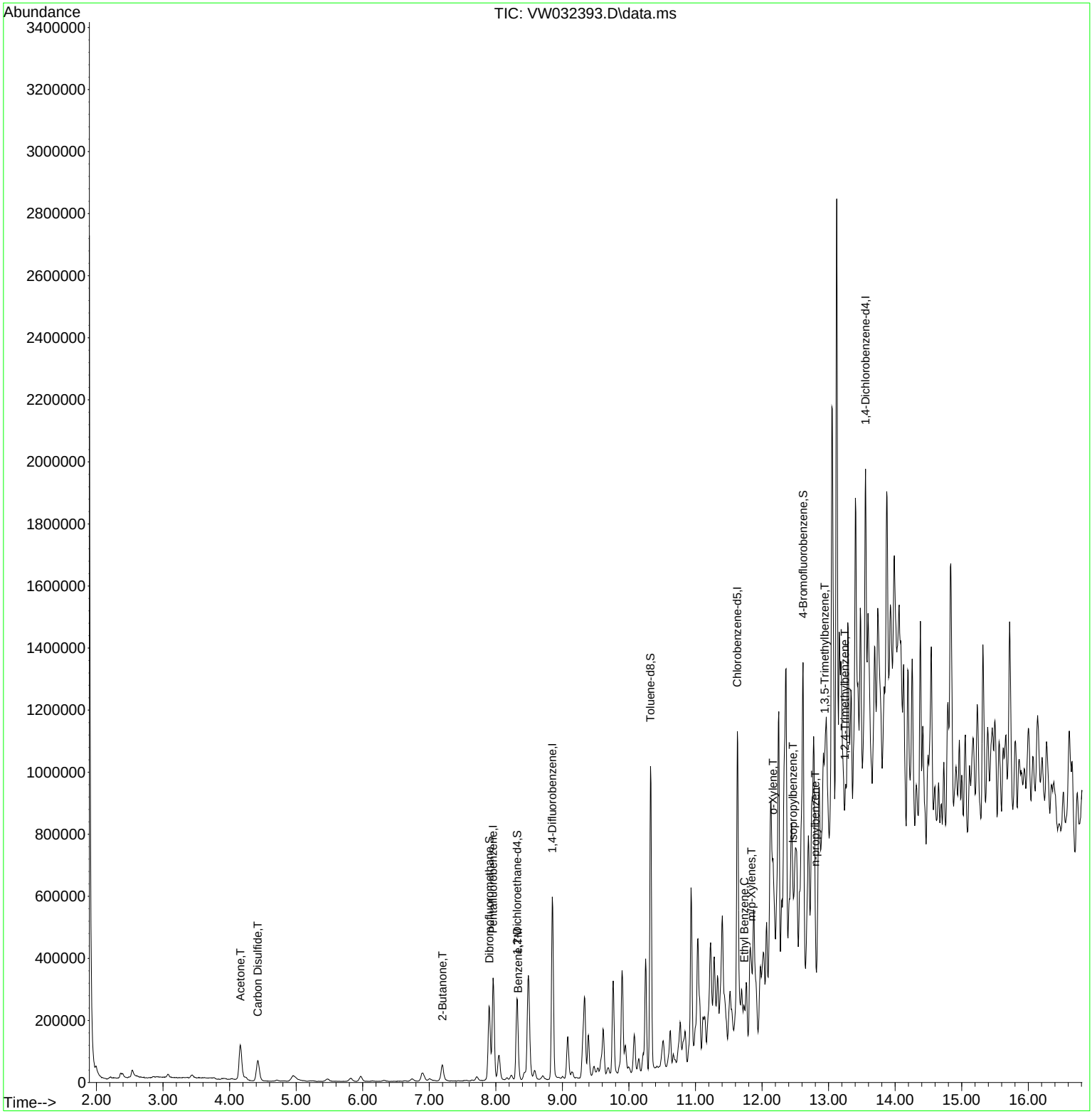
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	222878	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	495532	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	494383	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.555	152	205827	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	209091	64.320	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 128.640%			
35) Dibromofluoromethane	7.904	113	176785	55.088	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 110.180%			
50) Toluene-d8	10.324	98	636458	53.736	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 107.480%			
62) 4-Bromofluorobenzene	12.617	95	257079	57.426	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 114.860%			
Target Compounds						Qvalue
16) Acetone	4.161	43	217401	241.522	ug/l	100
17) Carbon Disulfide	4.423	76	160809	23.463	ug/l	98
25) 2-Butanone	7.197	43	80561	65.714	ug/l	100
40) Benzene	8.337	78	18202	1.282	ug/l	99
67) Ethyl Benzene	11.733	91	35079	1.935	ug/l	100
68) m/p-Xylenes	11.842	106	52085	7.449	ug/l	98
69) o-Xylene	12.165	106	77196	11.806	ug/l	95
73) Isopropylbenzene	12.464	105	30189	2.144	ug/l	98
78) n-propylbenzene	12.799	91	35908	2.041	ug/l	99
80) 1,3,5-Trimethylbenzene	12.940	105	27053	2.222	ug/l	95
84) 1,2,4-Trimethylbenzene	13.245	105	72770	5.877	ug/l	91

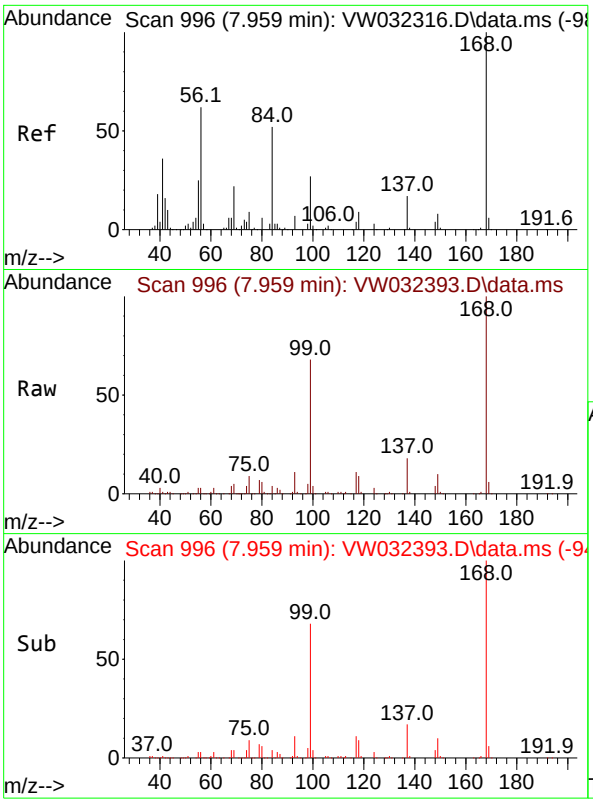
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032393.D
Acq On : 20 Oct 2025 16:46
Operator : SY/MD
Sample : Q3393-01
Misc : 8.02g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Quant Time: Oct 21 01:31:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration



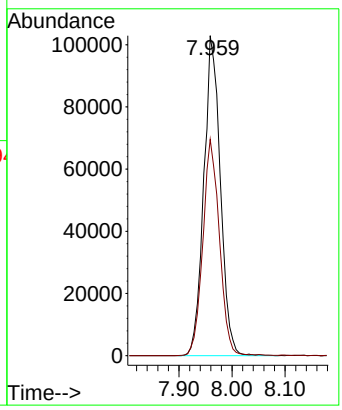


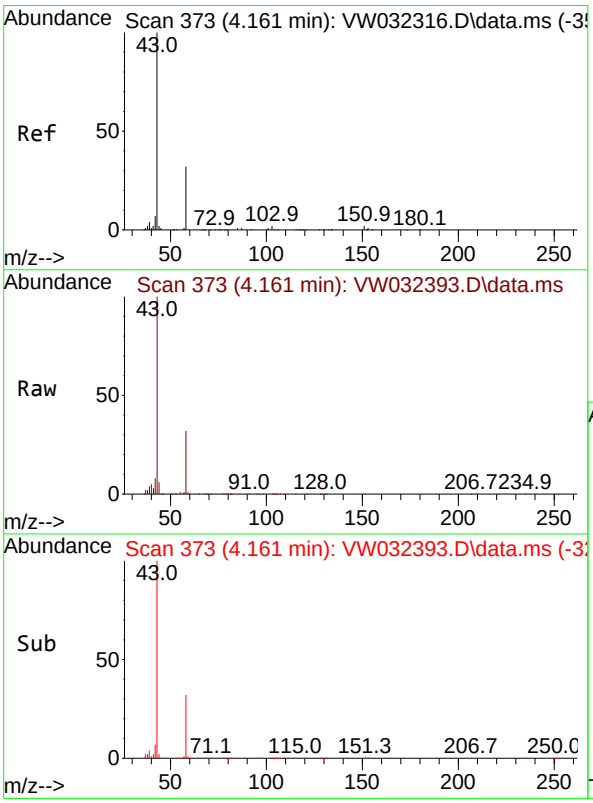
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Tgt Ion:168 Resp: 222878

Ion	Ratio	Lower	Upper
168	100		
99	67.5	49.3	73.9

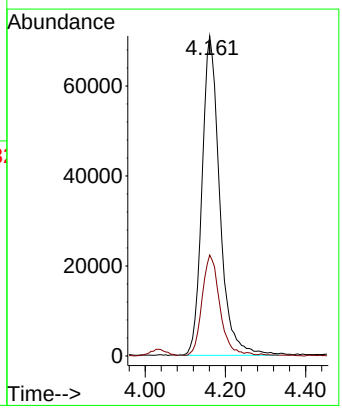


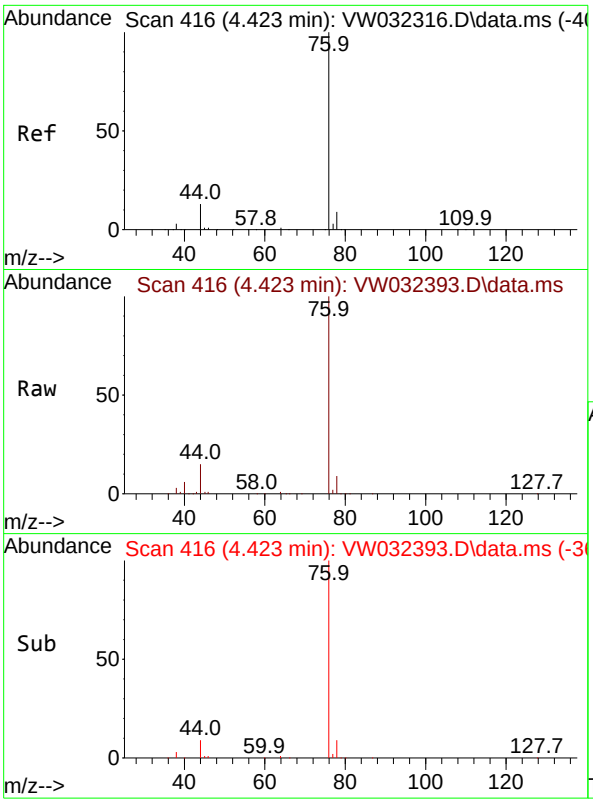


#16
Acetone
Concen: 241.522 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Tgt Ion: 43 Resp: 217401

Ion	Ratio	Lower	Upper
43	100		
58	31.4	25.3	37.9



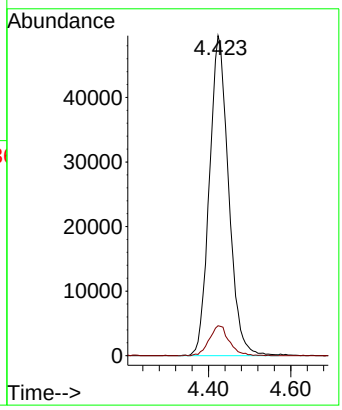


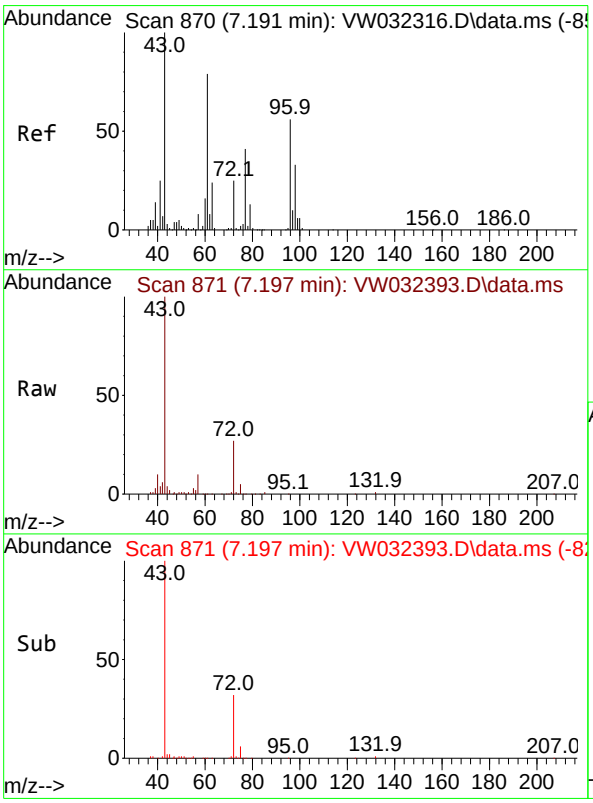
#17
Carbon Disulfide
Concen: 23.463 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Tgt Ion: 76 Resp: 160809

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.0	10.6

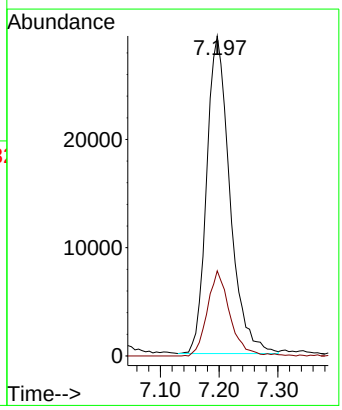


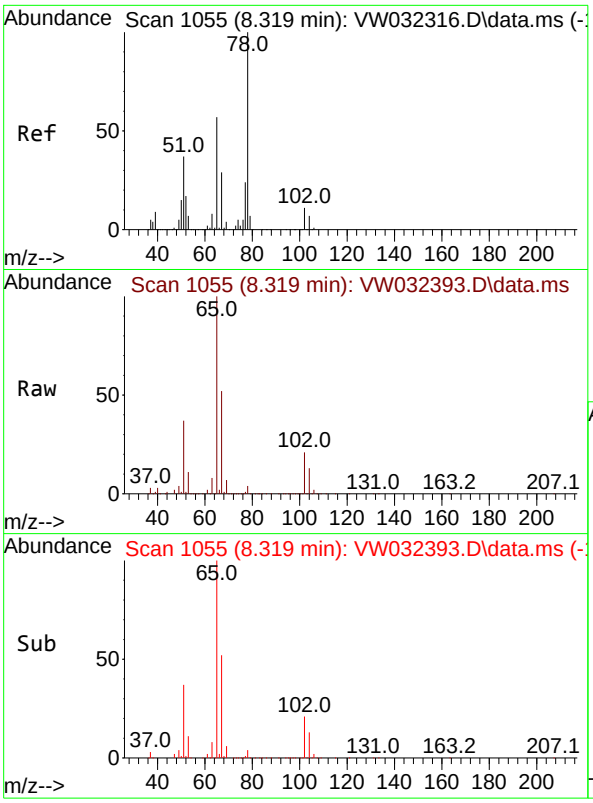


#25
2-Butanone
Concen: 65.714 ug/l
RT: 7.197 min Scan# 871
Delta R.T. 0.006 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Tgt Ion: 43 Resp: 80561

Ion	Ratio	Lower	Upper
43	100		
72	26.8	21.4	32.2



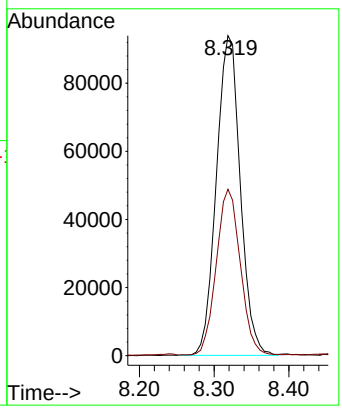


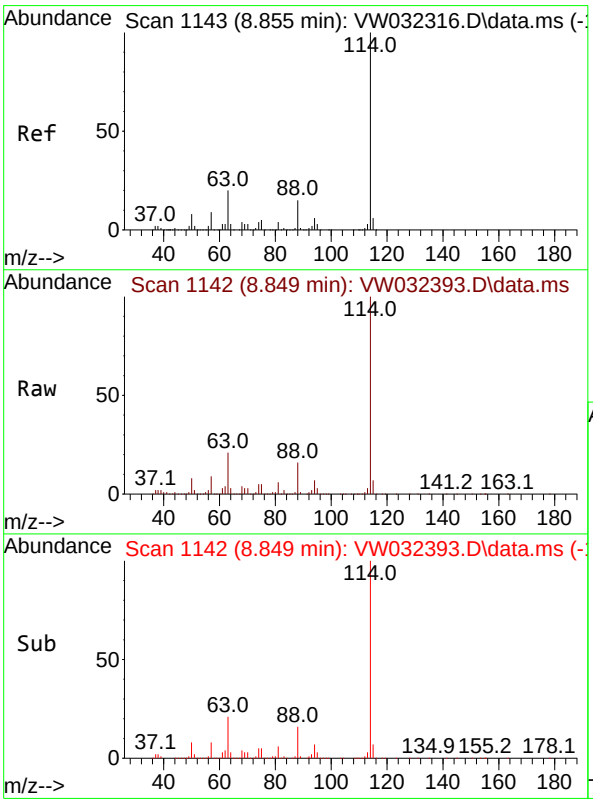
#33
1,2-Dichloroethane-d4
Concen: 64.320 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Tgt Ion: 65 Resp: 209091

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	99.6

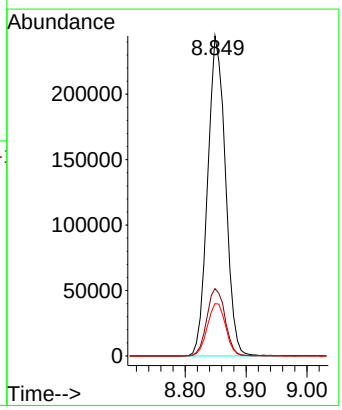


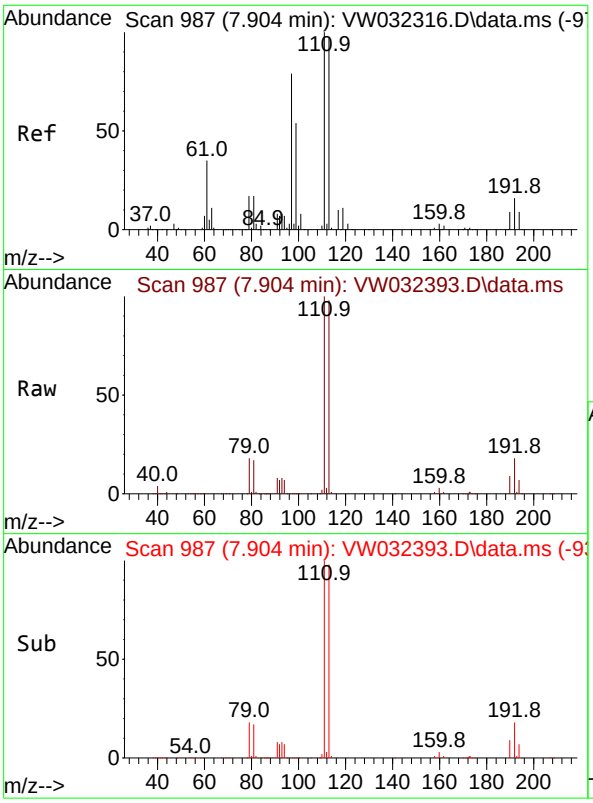


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.007 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Tgt Ion:114 Resp: 495532

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	40.4
88	16.4	0.0	32.0



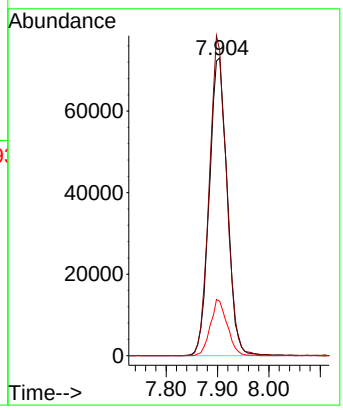


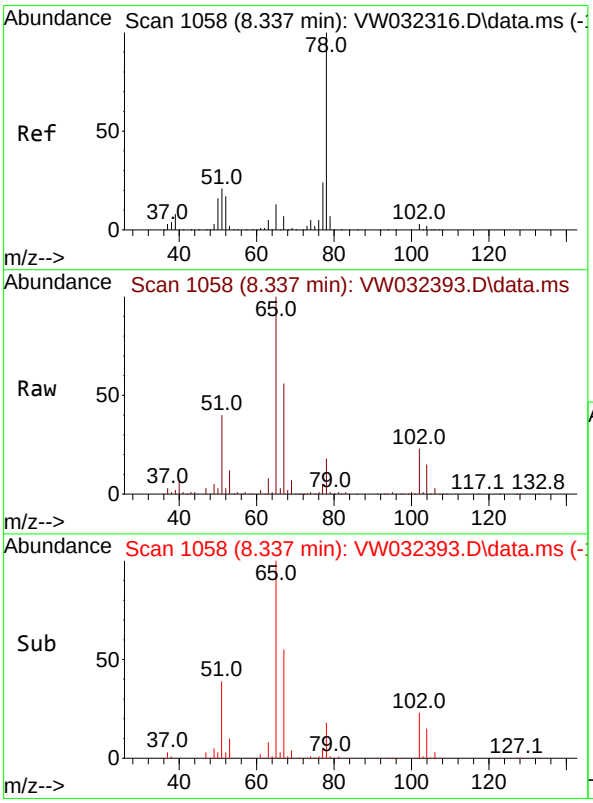
#35
Dibromofluoromethane
Concen: 55.088 ug/l
RT: 7.904 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Tgt Ion:113 Resp: 176785

Ion	Ratio	Lower	Upper
113	100		
111	103.3	83.9	125.9
192	17.7	14.6	21.8

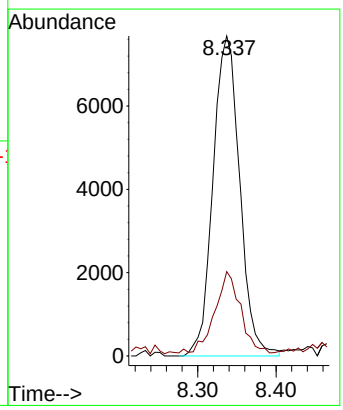


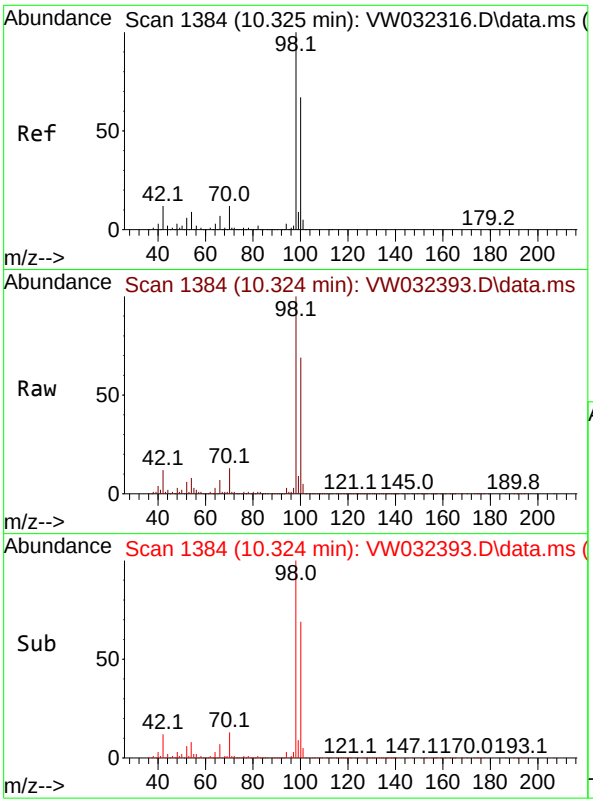


#40
Benzene
Concen: 1.282 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Tgt Ion: 78 Resp: 18202

Ion	Ratio	Lower	Upper
78	100		
77	25.4	20.7	31.1



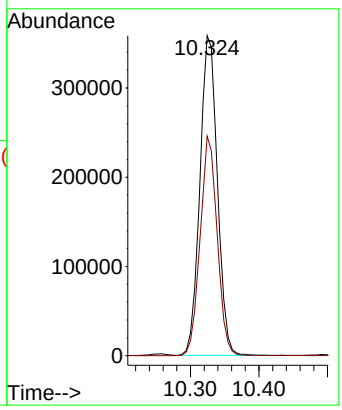


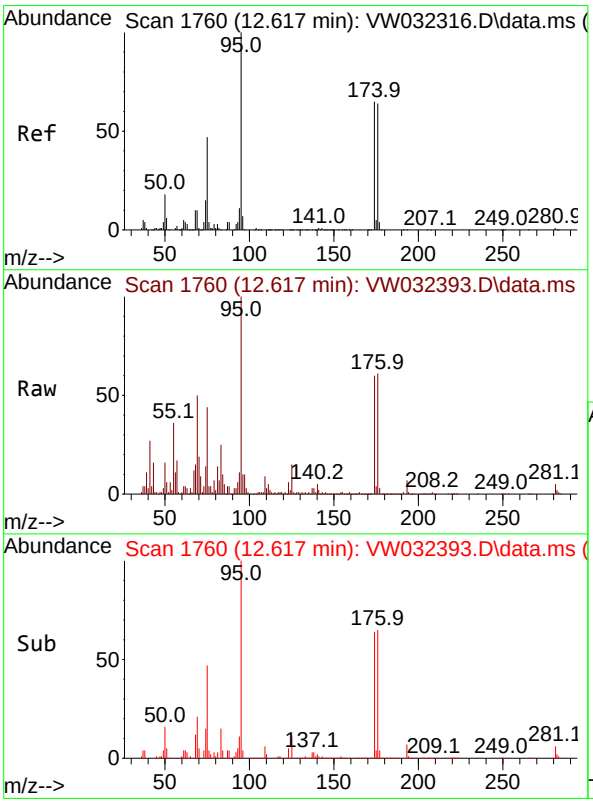
#50
Toluene-d8
Concen: 53.736 ug/l
RT: 10.324 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Tgt Ion: 98 Resp: 636458

Ion	Ratio	Lower	Upper
98	100		
100	67.0	51.4	77.2

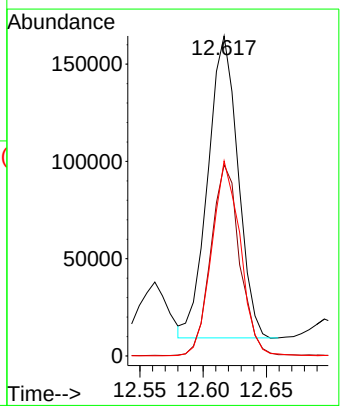


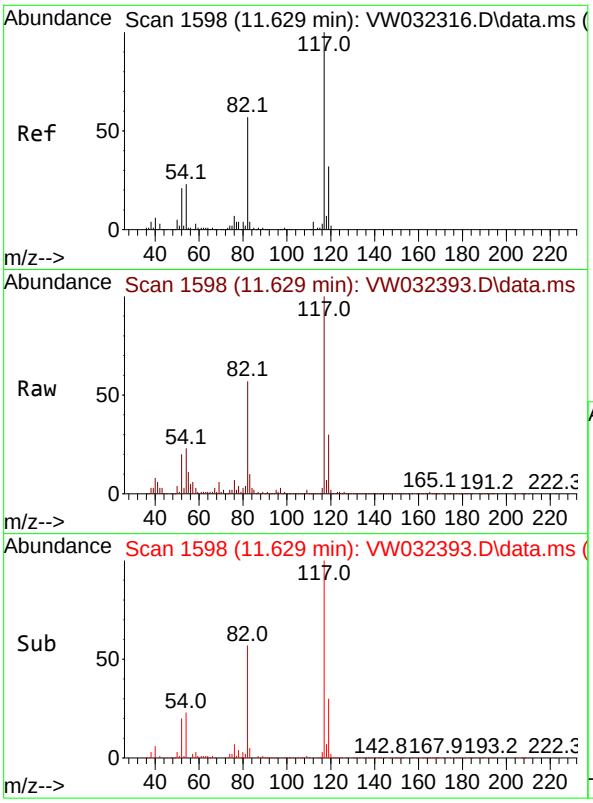


#62
4-Bromofluorobenzene
Concen: 57.426 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Tgt Ion: 95 Resp: 257079

Ion	Ratio	Lower	Upper
95	100		
174	61.2	0.0	145.6
176	61.8	0.0	140.8



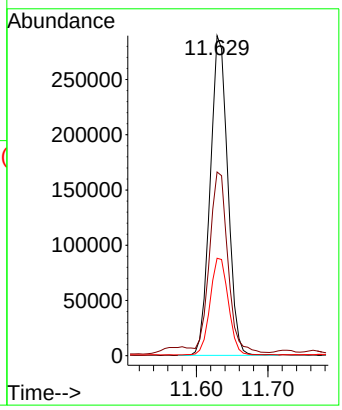


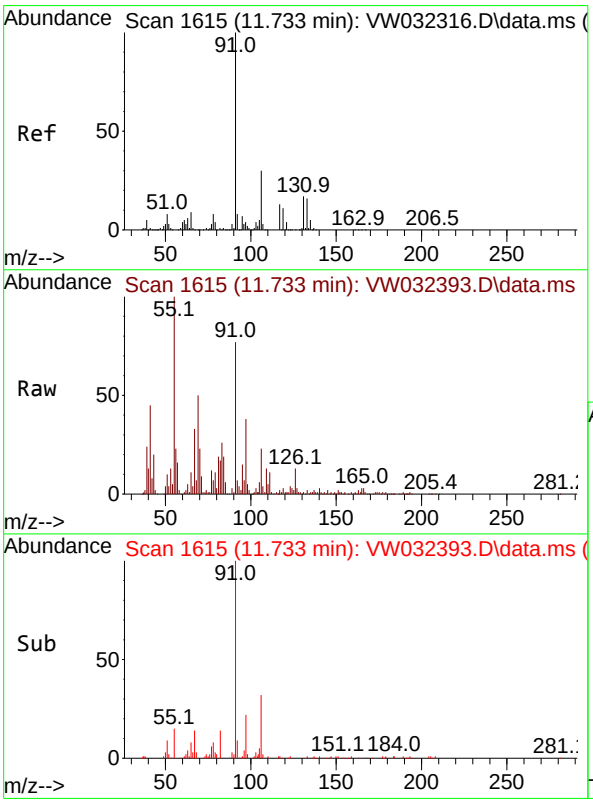
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Tgt Ion:117 Resp: 494383

Ion	Ratio	Lower	Upper
117	100		
82	55.9	42.7	64.1
119	30.2	25.2	37.8

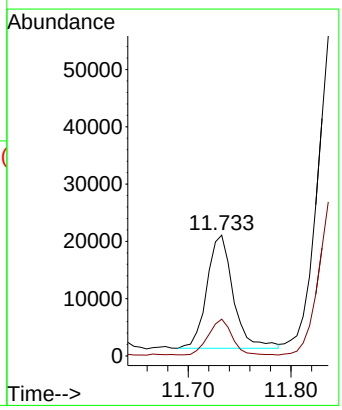


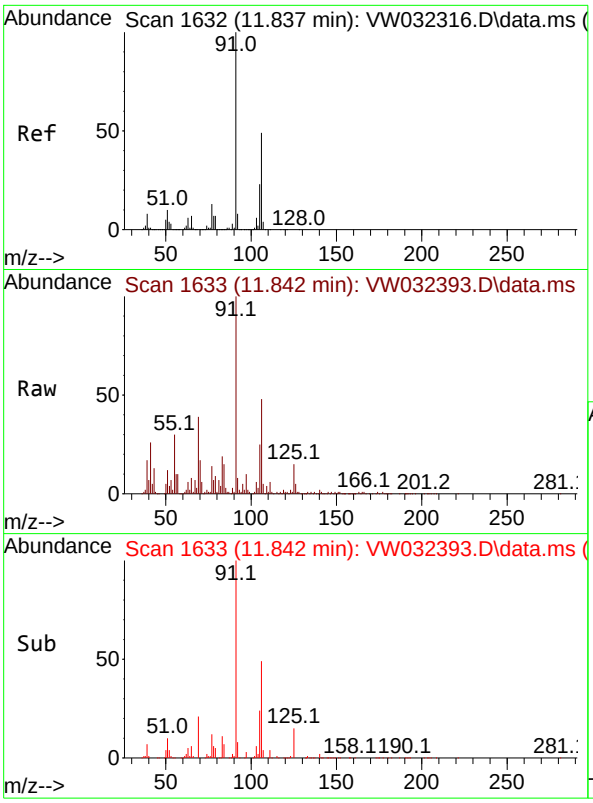


#67
Ethyl Benzene
Concen: 1.935 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Tgt Ion: 91 Resp: 35079

Ion	Ratio	Lower	Upper
91	100		
106	31.6	25.3	37.9



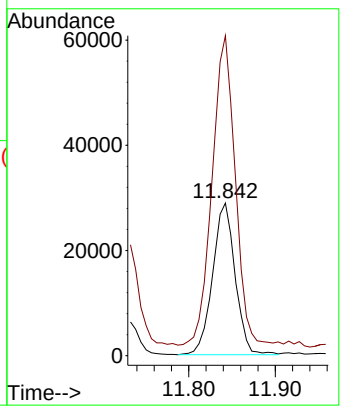


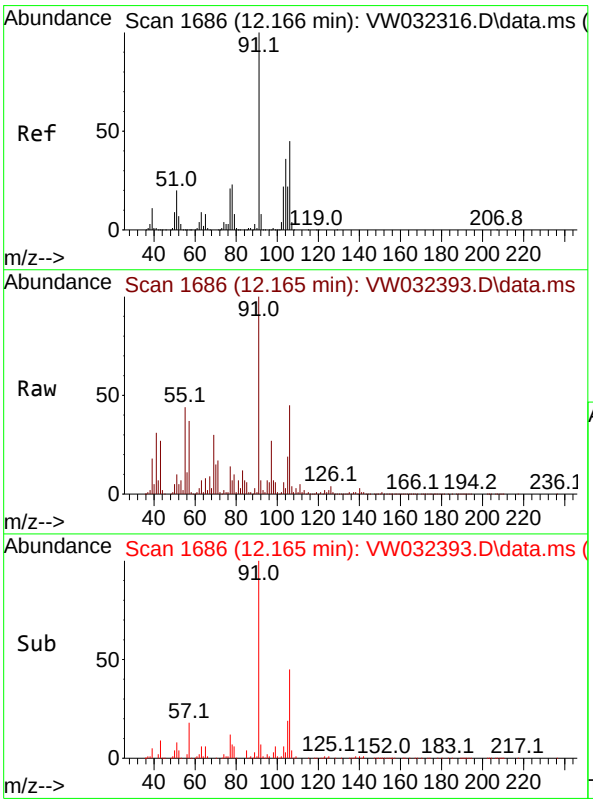
#68
m/p-Xylenes
Concen: 7.449 ug/l
RT: 11.842 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Tgt Ion:106 Resp: 52085

Ion	Ratio	Lower	Upper
106	100		
91	208.5	164.2	246.2

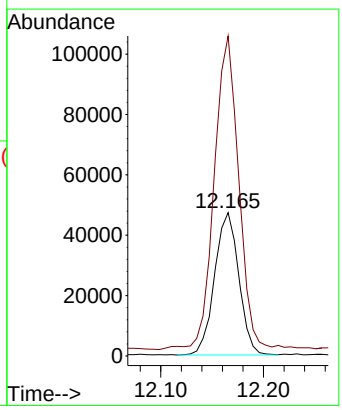


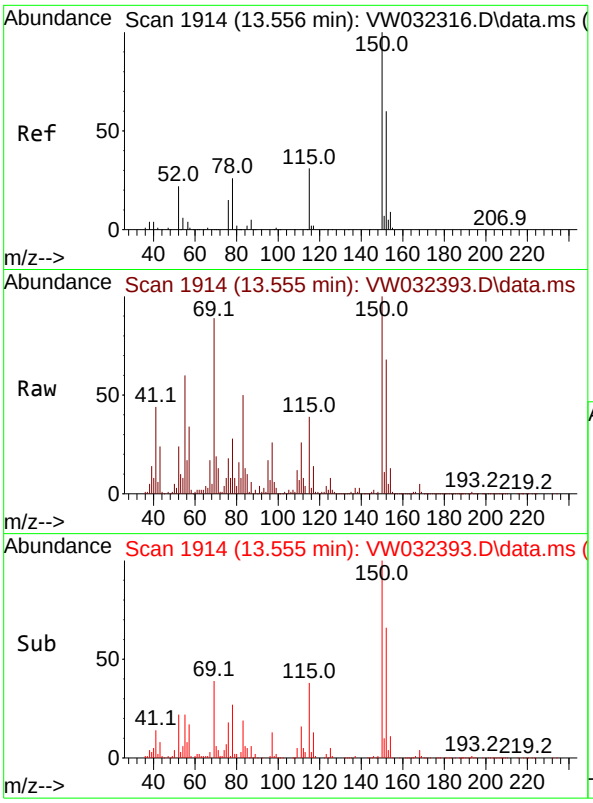


#69
o-Xylene
Concen: 11.806 ug/l
RT: 12.165 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Tgt Ion:106 Resp: 77196

Ion	Ratio	Lower	Upper
106	100		
91	225.1	108.7	326.3



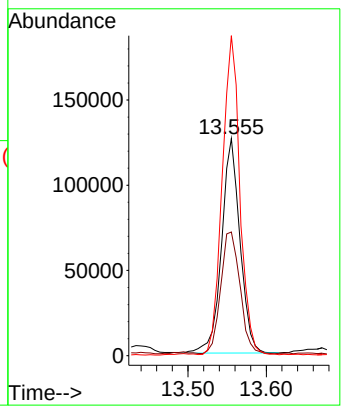


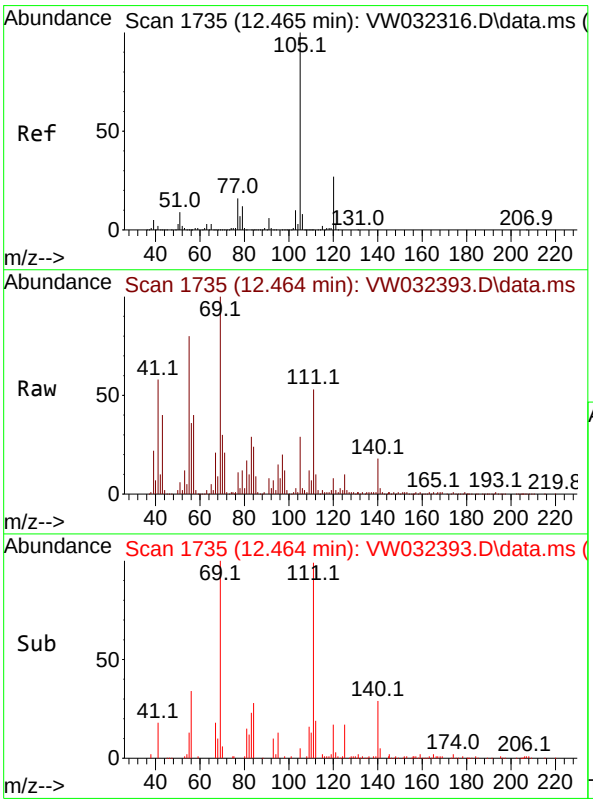
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.555 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Tgt Ion:152 Resp: 205827

Ion	Ratio	Lower	Upper
152	100		
115	59.1	31.8	95.4
150	142.5	0.0	343.0

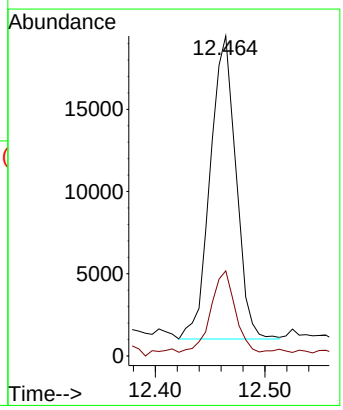


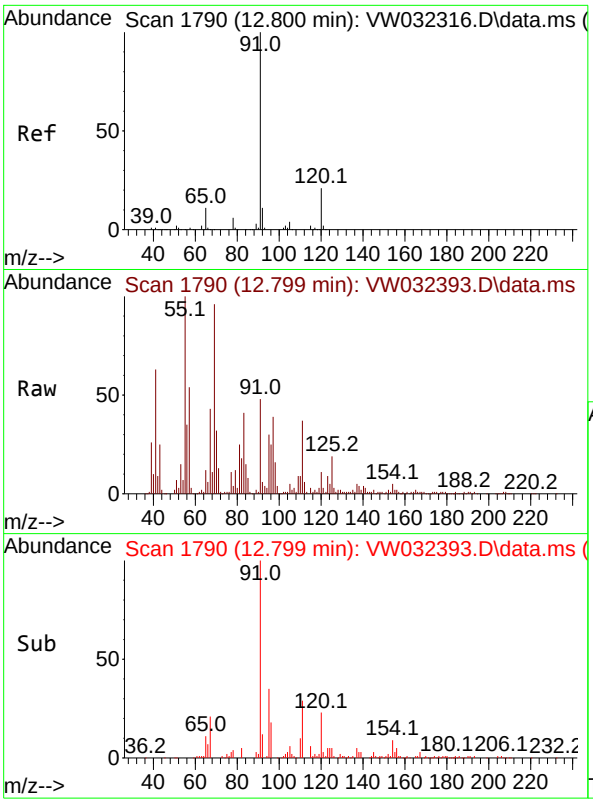


#73
Isopropylbenzene
Concen: 2.144 ug/l
RT: 12.464 min Scan# 1735
Delta R.T. 0.006 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Tgt Ion:105 Resp: 30189

Ion	Ratio	Lower	Upper
105	100		
120	25.1	13.0	38.9



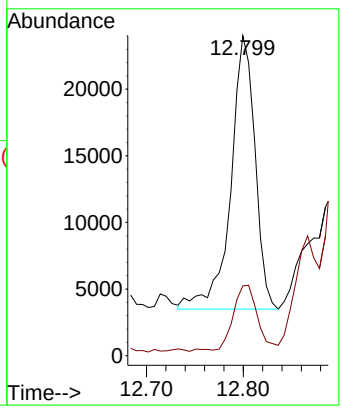


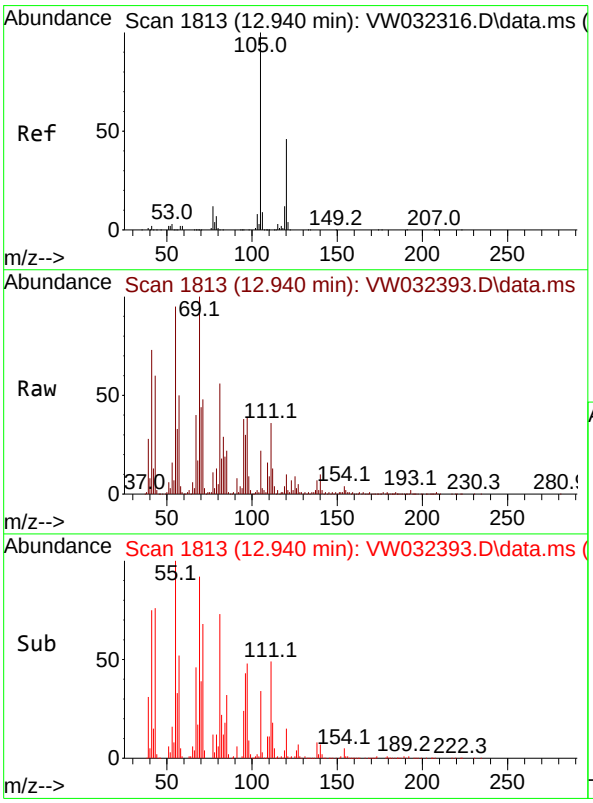
#78
n-propylbenzene
Concen: 2.041 ug/l
RT: 12.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Tgt Ion: 91 Resp: 35908

Ion	Ratio	Lower	Upper
91	100		
120	23.3	11.8	35.4

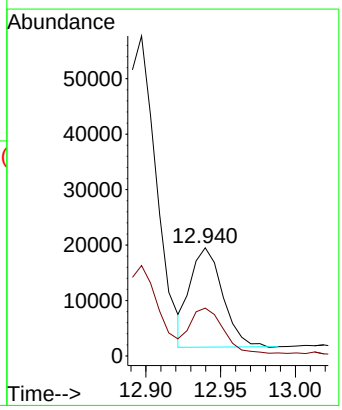


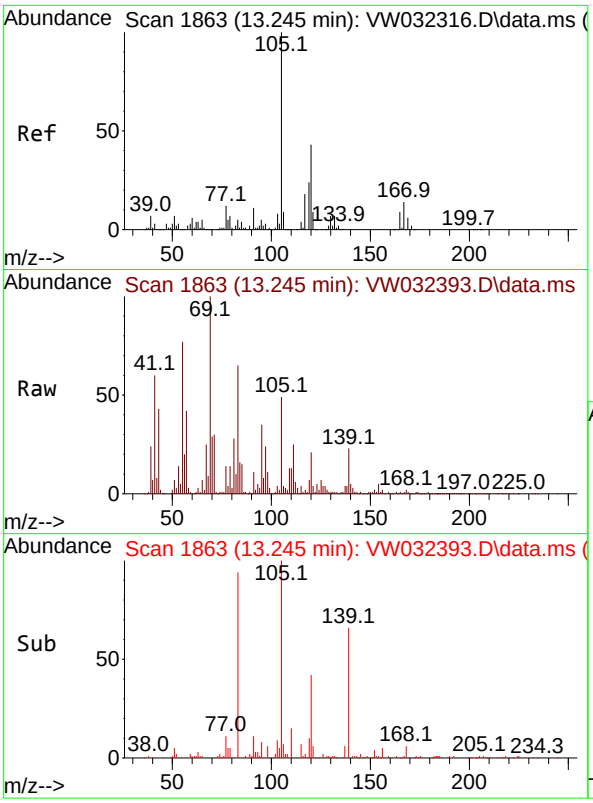


#80
1,3,5-Trimethylbenzene
Concen: 2.222 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Tgt Ion:105 Resp: 27053

Ion	Ratio	Lower	Upper
105	100		
120	46.4	24.8	74.4



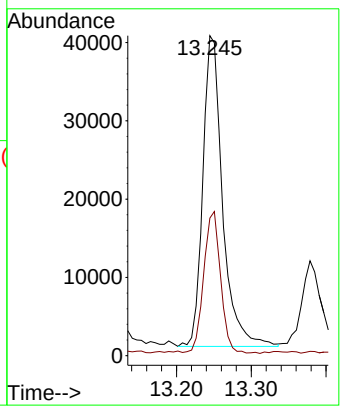


#84
1,2,4-Trimethylbenzene
Concen: 5.877 ug/l
RT: 13.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032393.D
Acq: 20 Oct 2025 16:46

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Tgt Ion:105 Resp: 72770

Ion	Ratio	Lower	Upper
105	100		
120	38.5	22.1	66.3



Sample Results: **VW032393.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032393.D
Acq On : 20 Oct 2025 16:46
Operator : SY/MD
Sample : Q3393-01
Misc : 8.02g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

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_W\Method\82W100125S.M
Title : SW846 8260

Signal : TIC: VW032393.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.539	102	107	115	rBV	20981	50207	1.71%	0.094%
2	3.435	248	254	265	rVB5	9992	31409	1.07%	0.059%
3	4.161	363	373	383	rBV	110550	327126	11.12%	0.613%
4	4.423	405	416	435	rVB	65784	215139	7.31%	0.403%
5	4.947	491	502	503	rBV4	17136	36048	1.23%	0.068%
6	5.478	574	589	600	rBV4	7696	31180	1.06%	0.058%
7	5.819	633	645	656	rBV3	10222	33441	1.14%	0.063%
8	5.971	660	670	681	rBV3	16105	51329	1.75%	0.096%
9	6.904	812	823	833	rBV3	25845	95883	3.26%	0.180%
10	7.197	857	871	886	rBV	51547	153970	5.23%	0.289%
11	7.715	949	956	966	rVB5	12341	32718	1.11%	0.061%
12	7.898	975	986	991	rBV	238816	571889	19.44%	1.072%
13	7.959	991	996	1004	rVV	329265	735012	24.99%	1.378%
14	8.044	1004	1010	1024	rVB	79099	209647	7.13%	0.393%
15	8.319	1047	1055	1066	rVB	260682	602680	20.49%	1.130%
16	8.489	1066	1083	1093	rBV	335289	936574	31.84%	1.756%
17	8.581	1093	1098	1108	rVB4	28864	71613	2.43%	0.134%
18	8.703	1112	1118	1130	rVB6	12341	34396	1.17%	0.064%
19	8.849	1133	1142	1155	rBV	588476	1227295	41.73%	2.301%
20	9.081	1172	1180	1187	rBV	134511	301348	10.25%	0.565%
21	9.142	1187	1190	1198	rVB4	20343	45592	1.55%	0.085%
22	9.331	1210	1221	1227	rBV4	261316	739604	25.15%	1.387%
23	9.392	1227	1231	1238	rVB	129426	245616	8.35%	0.461%
24	9.477	1239	1245	1249	rBV2	29114	62441	2.12%	0.117%
25	9.611	1257	1267	1274	rVB2	143967	365062	12.41%	0.684%
26	9.690	1274	1280	1285	rBV3	19710	41963	1.43%	0.079%
27	9.763	1285	1292	1302	rVB	297249	595863	20.26%	1.117%
28	9.898	1303	1314	1319	rBV3	329979	727061	24.72%	1.363%
29	9.946	1319	1322	1328	rVB2	73971	128326	4.36%	0.241%
30	10.080	1337	1344	1350	rBV2	122130	259099	8.81%	0.486%
31	10.148	1351	1355	1360	rVB2	39834	69099	2.35%	0.130%
32	10.251	1360	1372	1378	rBV2	361247	747704	25.42%	1.402%
33	10.324	1378	1384	1395	rVV	975872	1744442	59.31%	3.271%
34	10.513	1407	1415	1422	rVB4	83942	211538	7.19%	0.397%
35	10.623	1424	1433	1437	rBV2	113224	236862	8.05%	0.444%
36	10.666	1437	1440	1444	rBV2	28024	41271	1.40%	0.077%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032393.D
Acq On : 20 Oct 2025 16:46
Operator : SY/MD
Sample : Q3393-01
Misc : 8.02g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

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_W\Method\82W100125S.M
Title : SW846 8260

37	10.769	1448	1457	1461	rBV3	129230	316086	10.75%	0.593%
38	10.843	1462	1469	1474	rVB5	98368	266170	9.05%	0.499%
39	10.934	1474	1484	1490	rBV	561350	1088787	37.02%	2.041%
40	11.038	1491	1501	1509	rVB3	353573	973681	33.10%	1.826%
41	11.111	1509	1513	1516	rBV	101371	185602	6.31%	0.348%
42	11.227	1522	1532	1537	rBV4	321497	884449	30.07%	1.658%
43	11.281	1537	1541	1546	rVV3	257380	555438	18.88%	1.041%
44	11.330	1546	1549	1553	rVV3	186430	332340	11.30%	0.623%
45	11.403	1553	1561	1574	rVB5	397454	1255818	42.70%	2.355%
46	11.519	1574	1580	1589	rBV4	153933	457517	15.56%	0.858%
47	11.629	1592	1598	1606	rVV	924400	1671438	56.83%	3.134%
48	11.690	1606	1608	1612	rVB2	72676	93399	3.18%	0.175%
49	11.763	1617	1620	1624	rVB	172336	264710	9.00%	0.496%
50	11.824	1624	1630	1635	rBV2	284078	756970	25.74%	1.419%
51	11.873	1635	1638	1649	rVB4	394727	979846	33.31%	1.837%
52	11.976	1649	1655	1657	rBV3	211585	406022	13.80%	0.761%
53	12.068	1666	1670	1674	rBV	199646	274413	9.33%	0.514%
54	12.135	1674	1681	1684	rBV3	566978	1365081	46.41%	2.559%
55	12.251	1692	1700	1704	rVB	773403	1450819	49.33%	2.720%
56	12.300	1704	1708	1709	rBV2	167650	228812	7.78%	0.429%
57	12.361	1709	1718	1723	rVB4	867827	2267539	77.10%	4.251%
58	12.446	1723	1732	1736	rBV7	368980	974187	33.12%	1.827%
59	12.617	1753	1760	1766	rVB4	986151	2227627	75.74%	4.177%
60	12.696	1766	1773	1777	rBV4	428171	980469	33.34%	1.838%
61	12.751	1777	1782	1783	rBV3	375627	548028	18.63%	1.028%
62	12.854	1793	1799	1803	rBV4	598118	1399993	47.60%	2.625%
63	12.921	1807	1810	1812	rBV2	241738	344143	11.70%	0.645%
64	13.049	1827	1831	1838	rBV	1282849	2475464	84.16%	4.641%
65	13.123	1838	1843	1847	rBV	1934229	2941205	100.00%	5.514%
66	13.159	1847	1849	1852	rBV2	298277	383065	13.02%	0.718%
67	13.287	1867	1870	1875	rBV	529998	873962	29.71%	1.639%
68	13.403	1885	1889	1894	rBV3	777858	1319100	44.85%	2.473%
69	13.476	1898	1901	1906	rVB2	517011	778673	26.47%	1.460%
70	13.555	1910	1914	1918	rBV2	765107	1151334	39.14%	2.159%
71	13.872	1963	1966	1971	rVB4	599859	923511	31.40%	1.731%
72	14.189	2014	2018	2024	rBV4	503457	1040888	35.39%	1.952%
73	14.257	2026	2029	2035	rVB4	538336	898594	30.55%	1.685%
74	14.378	2045	2049	2052	rBV2	602551	854506	29.05%	1.602%
75	14.494	2064	2068	2070	rBV4	263678	456214	15.51%	0.855%
76	14.793	2112	2117	2119	rBV2	391598	714773	24.30%	1.340%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032393.D
Acq On : 20 Oct 2025 16:46
Operator : SY/MD
Sample : Q3393-01
Misc : 8.02g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

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_W\Method\82W100125S.M
Title : SW846 8260

77	14.836	2120	2124	2131	rVB2	794308	1664057	56.58%	3.120%
78	15.317	2199	2203	2210	rBV2	554605	1068510	36.33%	2.003%
79	15.720	2265	2269	2277	rVB5	606016	1232262	41.90%	2.310%

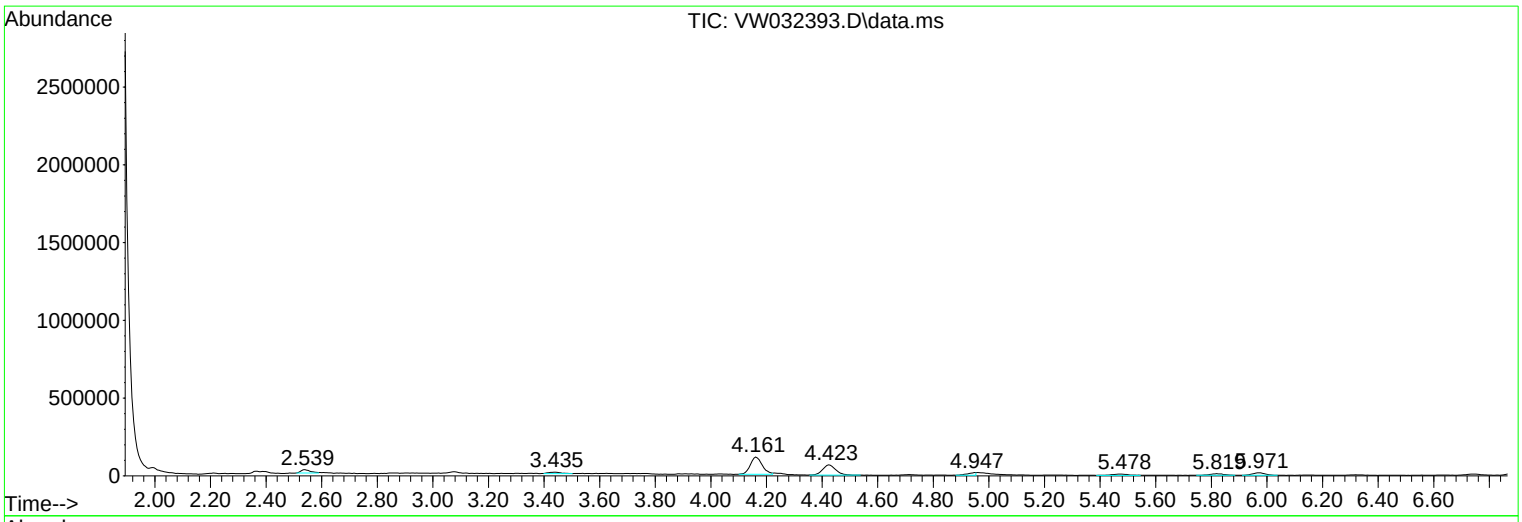
Sum of corrected areas: 53335949

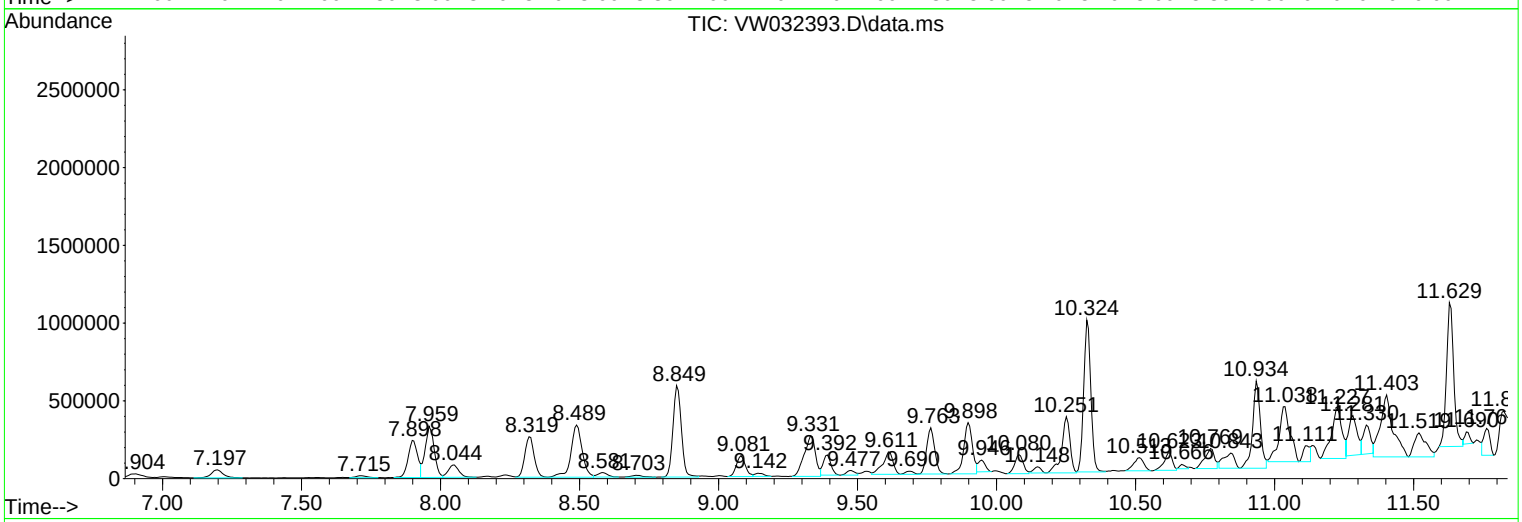
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032393.D
Acq On : 20 Oct 2025 16:46
Operator : SY/MD
Sample : Q3393-01
Misc : 8.02g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

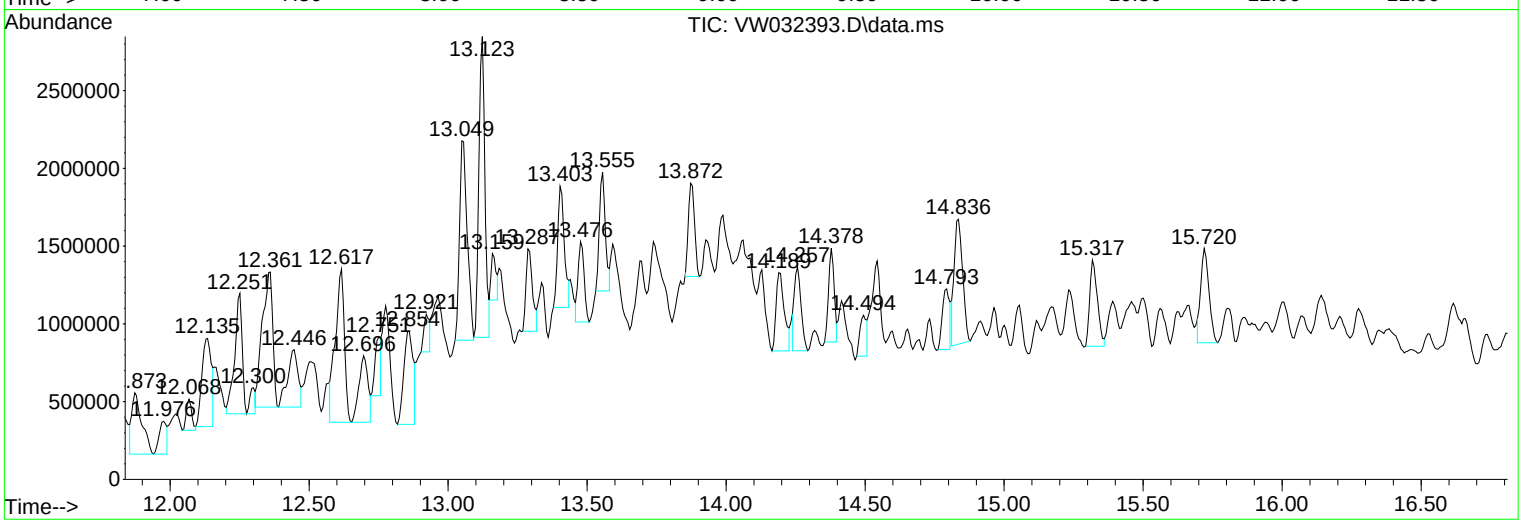
Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260

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







Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032393.D
Acq On : 20 Oct 2025 16:46
Operator : SY/MD
Sample : Q3393-01
Misc : 8.02g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

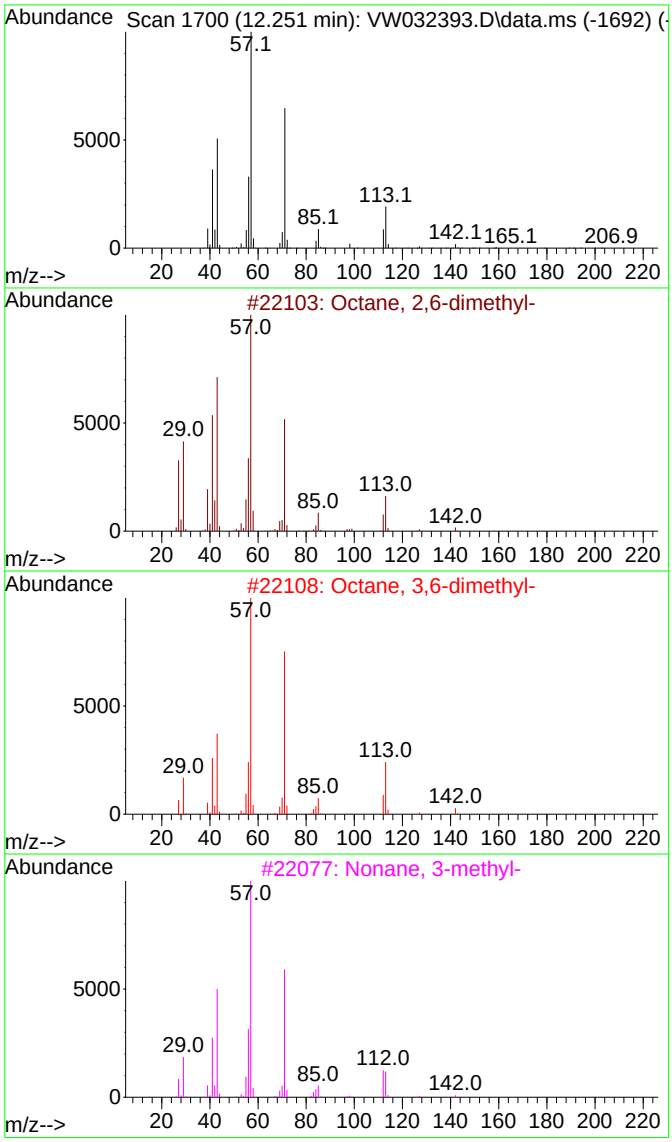
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260

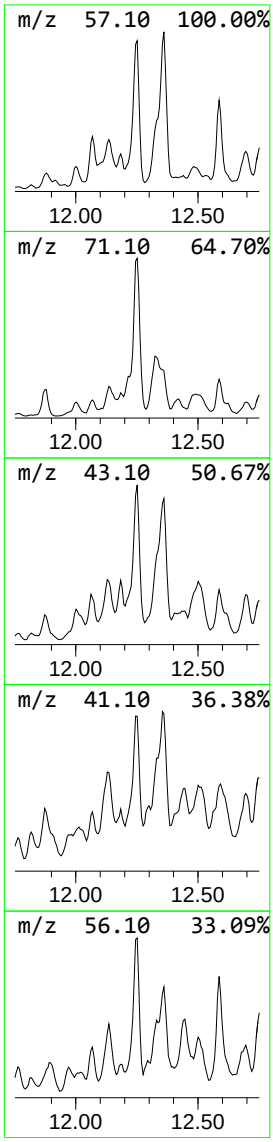
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Octane, 2,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.251	43.40 ug/l	1450820	Chlorobenzene-d5	11.629

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	91
2	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	90
3	Nonane, 3-methyl-	142	C10H22	005911-04-6	87
4	Undecane, 6,6-dimethyl-	184	C13H28	017312-76-4	72
5	Sulfurous acid, butyl 2-ethylhex...	250	C12H26O3S	1000309-18-8	64





```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032393.D
Acq On    : 20 Oct 2025  16:46
Operator  : SY/MD
Sample    : Q3393-01
Misc      : 8.02g/5mL/MSVOA_W/SOIL/A
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title  : SW846 8260

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

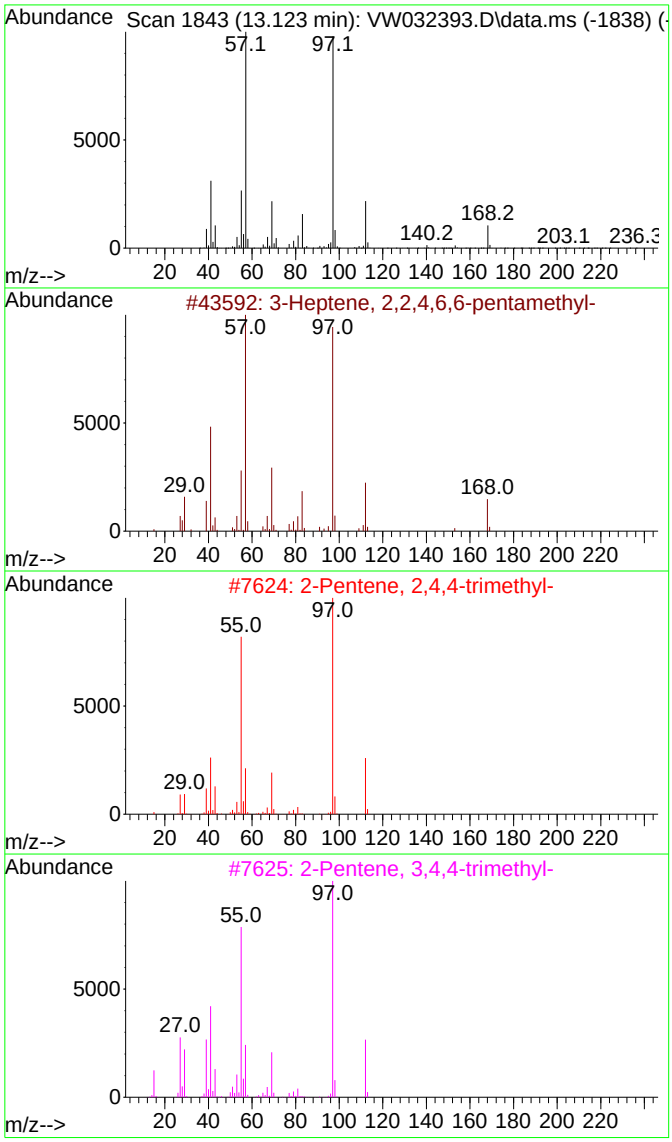
Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

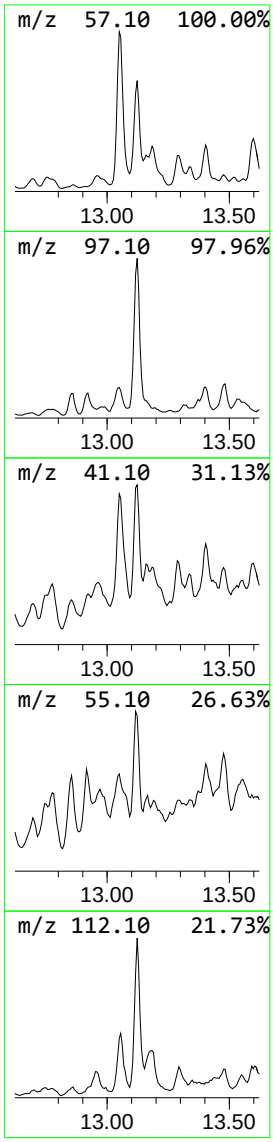
****

Peak Number 5 3-Heptene, 2,2,4,6,6-pentam... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.123	127.73 ug/l	2941210	1,4-Dichlorobenzene-d4	13.555

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Heptene, 2,2,4,6,6-pentamethyl-	168	C12H24	000123-48-8	94
2	2-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-40-4	68
3	2-Pentene, 3,4,4-trimethyl-	112	C8H16	000598-96-9	64
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	58
5	1H-Pyrazole, 4,5-dihydro-3,5,5-t...	112	C6H12N2	003975-85-7	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032393.D
Acq On : 20 Oct 2025 16:46
Operator : SY/MD
Sample : Q3393-01
Misc : 8.02g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

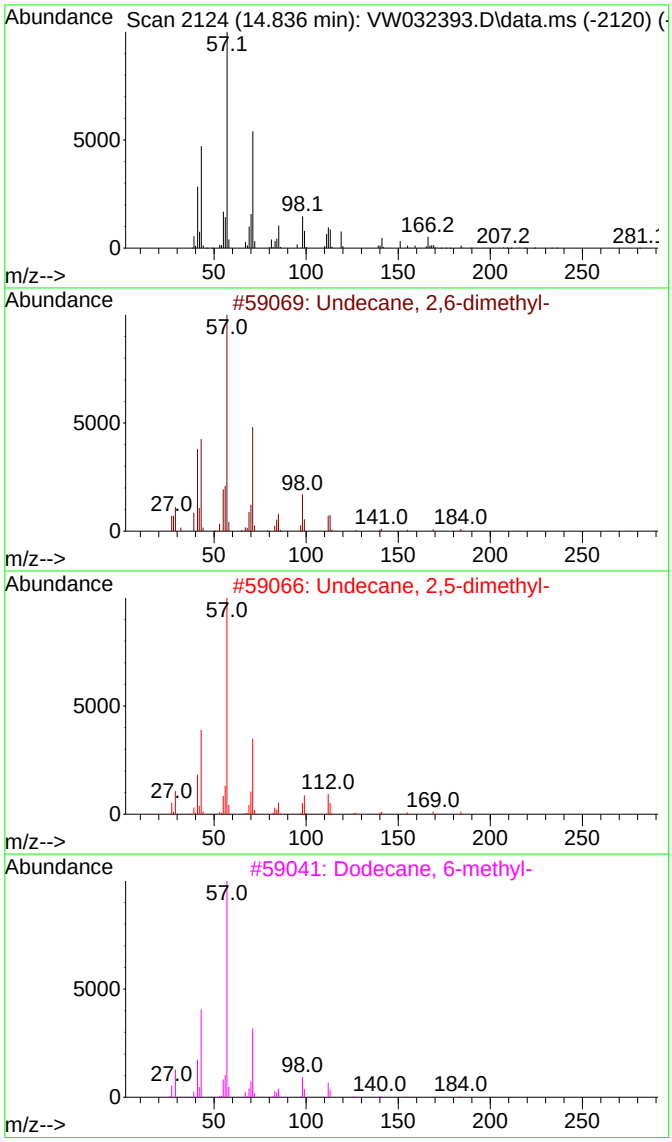
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260

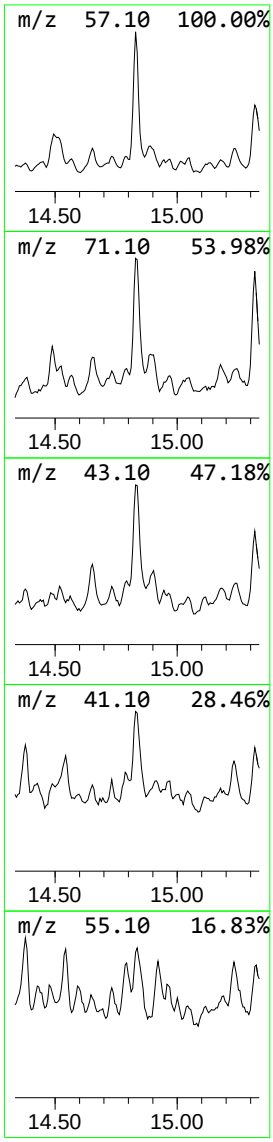
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Undecane, 2,6-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.836	72.27 ug/l	1664060	1,4-Dichlorobenzene-d4	13.555

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	91
2	Undecane, 2,5-dimethyl-	184	C13H28	017301-22-3	64
3	Dodecane, 6-methyl-	184	C13H28	006044-71-9	64
4	Sulfurous acid, decyl 2-ethylhex...	334	C18H38O3S	1000309-19-3	64
5	Nonane, 3-methyl-	142	C10H22	005911-04-6	62





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032393.D
Acq On : 20 Oct 2025 16:46
Operator : SY/MD
Sample : Q3393-01
Misc : 8.02g/5mL/MSVOA_W/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-000022-20251017

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.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
Octane, 2,6-dim...	12.251	43.4	ug/l	1450820	3	11.629	1671440	50.0
3-Heptene, 2,2,...	13.123	127.7	ug/l	2941210	4	13.555	1151330	50.0
Undecane, 2,6-d...	14.836	72.3	ug/l	1664060	4	13.555	1151330	50.0

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

Report of Analysis

Client:	AECOM	Date Collected:	10/17/25
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	10/17/25
Client Sample ID:	PR132-S10-022047-202510	SDG No.:	Q3393
Lab Sample ID:	Q3393-02	Matrix:	SOIL
Analytical Method:	8260D	Level : LOW	% Solid: 54
Sample Wt/Vol:	4.91 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	9.40	U	1	2.10	9.40	ug/Kg	10/20/25 17:08	VW102025
74-87-3	Chloromethane	9.40	U	1	2.10	9.40	ug/Kg	10/20/25 17:08	VW102025
75-01-4	Vinyl Chloride	9.40	U	1	1.50	9.40	ug/Kg	10/20/25 17:08	VW102025
74-83-9	Bromomethane	9.40	U	1	2.00	9.40	ug/Kg	10/20/25 17:08	VW102025
75-00-3	Chloroethane	9.40	U	1	2.40	9.40	ug/Kg	10/20/25 17:08	VW102025
75-69-4	Trichlorofluoromethane	9.40	U	1	2.30	9.40	ug/Kg	10/20/25 17:08	VW102025
76-13-1	1,1,2-Trichlorotrifluoroethane	9.40	U	1	2.00	9.40	ug/Kg	10/20/25 17:08	VW102025
75-35-4	1,1-Dichloroethene	9.40	U	1	1.90	9.40	ug/Kg	10/20/25 17:08	VW102025
67-64-1	Acetone	430		1	8.90	47.1	ug/Kg	10/20/25 17:08	VW102025
75-15-0	Carbon Disulfide	16.0		1	2.00	9.40	ug/Kg	10/20/25 17:08	VW102025
1634-04-4	Methyl tert-butyl Ether	9.40	U	1	1.40	9.40	ug/Kg	10/20/25 17:08	VW102025
79-20-9	Methyl Acetate	9.40	U	1	2.90	9.40	ug/Kg	10/20/25 17:08	VW102025
75-09-2	Methylene Chloride	18.9	U	1	6.70	18.9	ug/Kg	10/20/25 17:08	VW102025
156-60-5	trans-1,2-Dichloroethene	9.40	U	1	1.60	9.40	ug/Kg	10/20/25 17:08	VW102025
75-34-3	1,1-Dichloroethane	9.40	U	1	1.50	9.40	ug/Kg	10/20/25 17:08	VW102025
110-82-7	Cyclohexane	9.40	U	1	1.50	9.40	ug/Kg	10/20/25 17:08	VW102025
78-93-3	2-Butanone	140		1	12.3	47.1	ug/Kg	10/20/25 17:08	VW102025
56-23-5	Carbon Tetrachloride	9.40	U	1	1.80	9.40	ug/Kg	10/20/25 17:08	VW102025
156-59-2	cis-1,2-Dichloroethene	9.40	U	1	1.40	9.40	ug/Kg	10/20/25 17:08	VW102025
74-97-5	Bromochloromethane	9.40	U	1	2.20	9.40	ug/Kg	10/20/25 17:08	VW102025
67-66-3	Chloroform	9.40	U	1	1.60	9.40	ug/Kg	10/20/25 17:08	VW102025
71-55-6	1,1,1-Trichloroethane	9.40	U	1	1.80	9.40	ug/Kg	10/20/25 17:08	VW102025
108-87-2	Methylcyclohexane	25.3		1	1.70	9.40	ug/Kg	10/20/25 17:08	VW102025
71-43-2	Benzene	9.40	U	1	1.50	9.40	ug/Kg	10/20/25 17:08	VW102025
107-06-2	1,2-Dichloroethane	9.40	U	1	1.50	9.40	ug/Kg	10/20/25 17:08	VW102025
79-01-6	Trichloroethene	9.40	U	1	1.50	9.40	ug/Kg	10/20/25 17:08	VW102025
78-87-5	1,2-Dichloropropane	9.40	U	1	1.70	9.40	ug/Kg	10/20/25 17:08	VW102025
75-27-4	Bromodichloromethane	9.40	U	1	1.50	9.40	ug/Kg	10/20/25 17:08	VW102025
108-10-1	4-Methyl-2-Pentanone	47.1	U	1	6.80	47.1	ug/Kg	10/20/25 17:08	VW102025
108-88-3	Toluene	9.40	U	1	1.50	9.40	ug/Kg	10/20/25 17:08	VW102025
10061-02-6	t-1,3-Dichloropropene	9.40	U	1	1.20	9.40	ug/Kg	10/20/25 17:08	VW102025
10061-01-5	cis-1,3-Dichloropropene	9.40	U	1	1.20	9.40	ug/Kg	10/20/25 17:08	VW102025
79-00-5	1,1,2-Trichloroethane	9.40	U	1	1.70	9.40	ug/Kg	10/20/25 17:08	VW102025
591-78-6	2-Hexanone	47.1	U	1	7.00	47.1	ug/Kg	10/20/25 17:08	VW102025
124-48-1	Dibromochloromethane	9.40	U	1	1.60	9.40	ug/Kg	10/20/25 17:08	VW102025
106-93-4	1,2-Dibromoethane	9.40	U	1	1.70	9.40	ug/Kg	10/20/25 17:08	VW102025
127-18-4	Tetrachloroethene	9.40	U	1	2.00	9.40	ug/Kg	10/20/25 17:08	VW102025
108-90-7	Chlorobenzene	9.40	U	1	1.70	9.40	ug/Kg	10/20/25 17:08	VW102025
100-41-4	Ethyl Benzene	9.40	U	1	1.30	9.40	ug/Kg	10/20/25 17:08	VW102025
179601-23-1	m/p-Xylenes	18.9	U	1	2.30	18.9	ug/Kg	10/20/25 17:08	VW102025
95-47-6	o-Xylene	9.40	U	1	1.50	9.40	ug/Kg	10/20/25 17:08	VW102025
100-42-5	Styrene	9.40	U	1	1.30	9.40	ug/Kg	10/20/25 17:08	VW102025
75-25-2	Bromoform	9.40	U	1	1.60	9.40	ug/Kg	10/20/25 17:08	VW102025

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

Report of Analysis

Client:	AECOM	Date Collected:	10/17/25
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	10/17/25
Client Sample ID:	PR132-S10-022047-202510	SDG No.:	Q3393
Lab Sample ID:	Q3393-02	Matrix:	SOIL
Analytical Method:	8260D	Level : LOW	% Solid: 54
Sample Wt/Vol:	4.91 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	9.40	U	1	1.50	9.40	ug/Kg	10/20/25 17:08	VW102025
79-34-5	1,1,2,2-Tetrachloroethane	9.40	U	1	2.30	9.40	ug/Kg	10/20/25 17:08	VW102025
541-73-1	1,3-Dichlorobenzene	9.40	U	1	3.20	9.40	ug/Kg	10/20/25 17:08	VW102025
106-46-7	1,4-Dichlorobenzene	9.40	U	1	2.90	9.40	ug/Kg	10/20/25 17:08	VW102025
95-50-1	1,2-Dichlorobenzene	9.40	U	1	2.70	9.40	ug/Kg	10/20/25 17:08	VW102025
96-12-8	1,2-Dibromo-3-Chloropropane	9.40	U	1	3.50	9.40	ug/Kg	10/20/25 17:08	VW102025
120-82-1	1,2,4-Trichlorobenzene	9.40	U	1	5.60	9.40	ug/Kg	10/20/25 17:08	VW102025
87-61-6	1,2,3-Trichlorobenzene	9.40	U	1	6.00	9.40	ug/Kg	10/20/25 17:08	VW102025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	63.1			63 - 155	126%	SPK: 50		
1868-53-7	Dibromofluoromethane	53.7			70 - 134	107%	SPK: 50		
2037-26-5	Toluene-d8	54.5			74 - 123	109%	SPK: 50		
460-00-4	4-Bromofluorobenzene	66.4			17 - 146	133%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	231000							
540-36-3	1,4-Difluorobenzene	513000							
3114-55-4	Chlorobenzene-d5	507000							
3855-82-1	1,4-Dichlorobenzene-d4	251000							
TENTATIVE IDENTIFIED COMPOUNDS									
001072-05-5	Heptane, 2,6-dimethyl-	140	J			10.9	ug/Kg		
003073-66-3	Cyclohexane, 1,1,3-trimethyl-	160	J			11.2	ug/Kg		
002051-30-1	Octane, 2,6-dimethyl-	230	J			12.3	ug/Kg		
017301-23-4	Undecane, 2,6-dimethyl-	300	J			14.8	ug/Kg		
026730-14-3	Tridecane, 7-methyl-	300	J			15.3	ug/Kg		
003221-61-2	Octane, 2-methyl-	240	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_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 21 01:31:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	231347	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	513228	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	507325	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	251321	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	212952	63.109	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 126.220%			
35) Dibromofluoromethane	7.904	113	178401	53.675	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 107.360%			
50) Toluene-d8	10.325	98	668397	54.487	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 108.980%			
62) 4-Bromofluorobenzene	12.617	95	307913	66.410	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 132.820%			
Target Compounds						Qvalue
16) Acetone	4.161	43	215274	230.404	ug/l	98
17) Carbon Disulfide	4.423	76	60180	8.459	ug/l	100
25) 2-Butanone	7.191	43	91330	71.771	ug/l	94
39) Methylcyclohexane	9.343	83	75959m	13.425	ug/l	

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

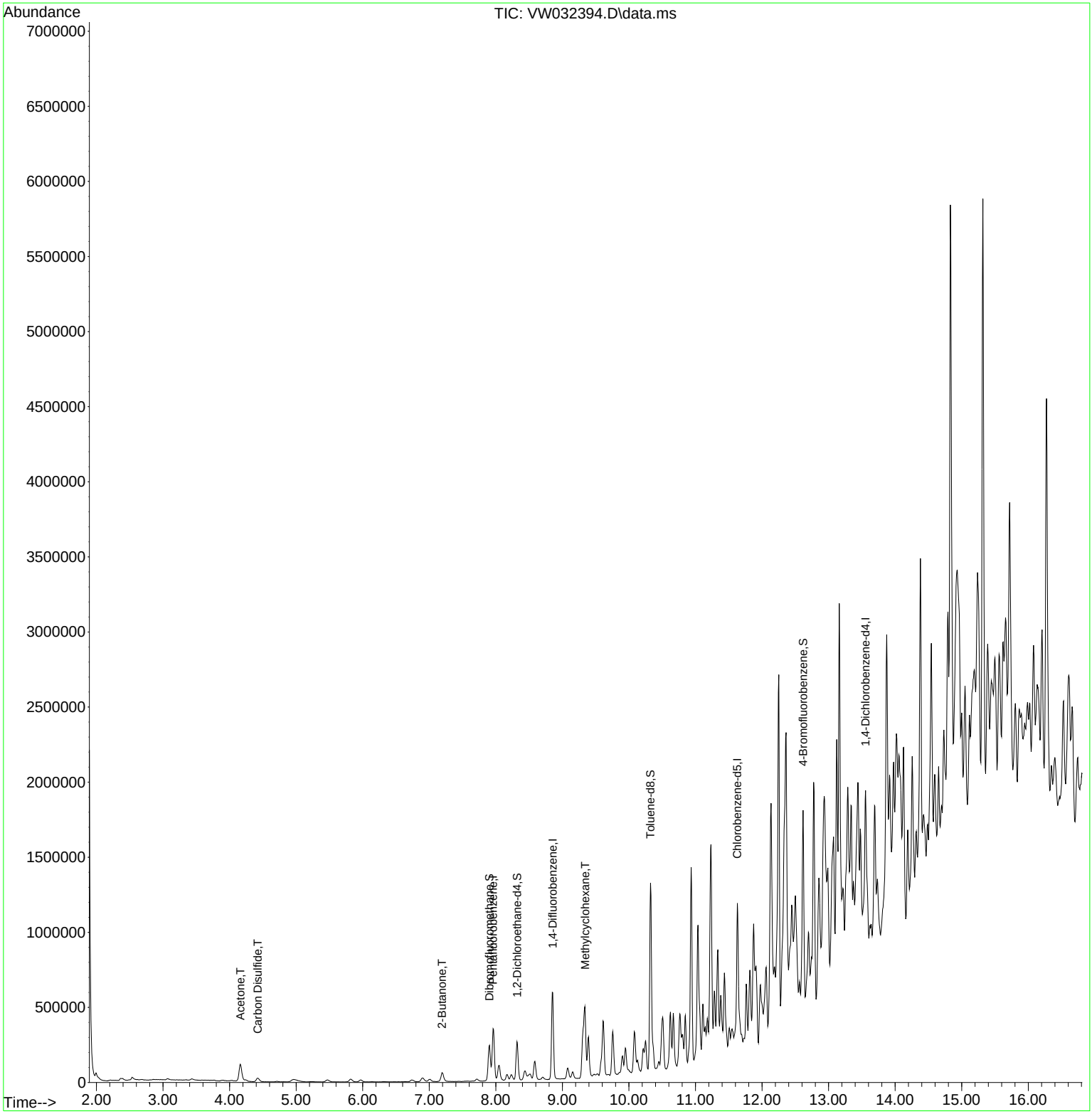
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

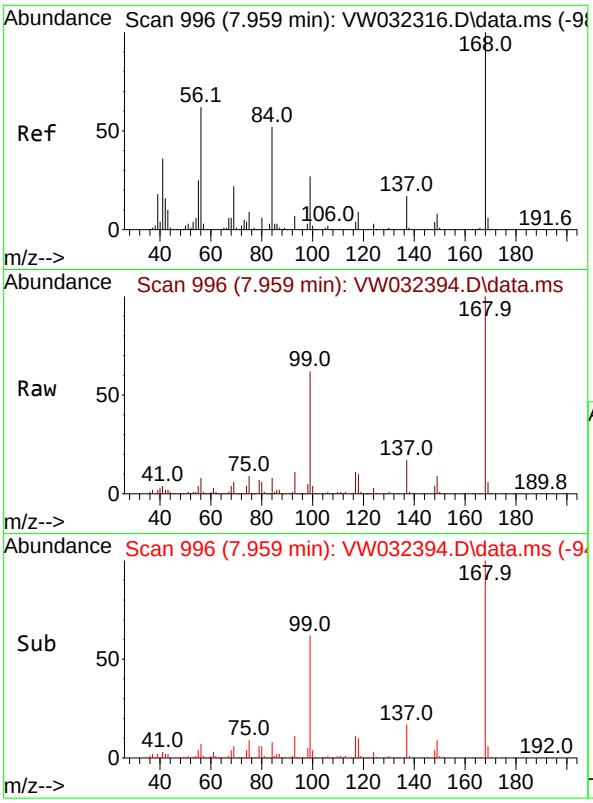
Quant Time: Oct 21 01:31:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

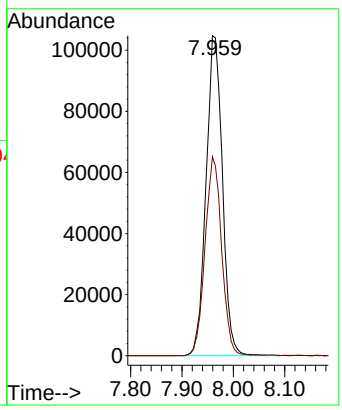




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032394.D
Acq: 20 Oct 2025 17:08

Tgt Ion:168 Resp: 23134

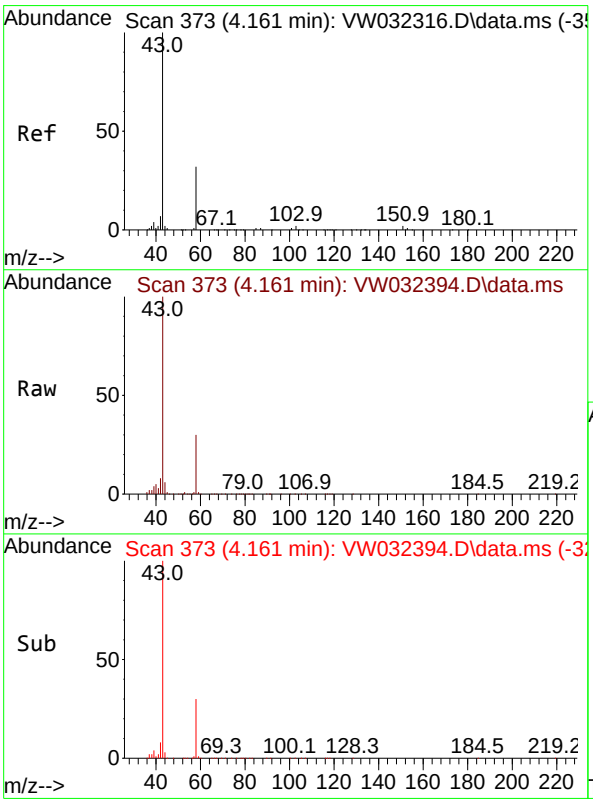
Ion	Ratio	Lower	Upper
168	100		
99	62.1	49.3	73.9



Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

Manual Integrations
APPROVED

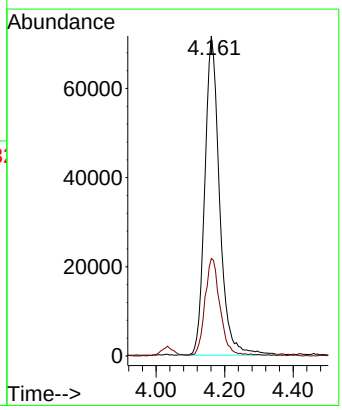
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

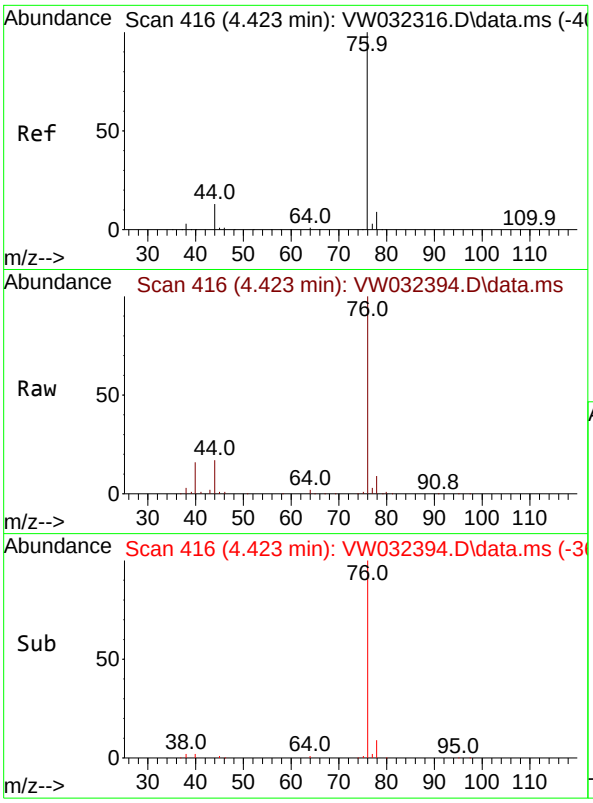


#16
Acetone
Concen: 230.404 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032394.D
Acq: 20 Oct 2025 17:08

Tgt Ion: 43 Resp: 215274

Ion	Ratio	Lower	Upper
43	100		
58	30.3	25.3	37.9

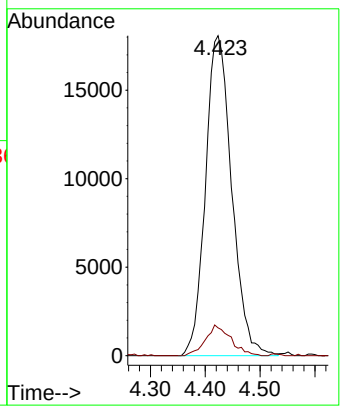




#17
Carbon Disulfide
Concen: 8.459 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032394.D
Acq: 20 Oct 2025 17:08

Tgt Ion: 76 Resp: 6018

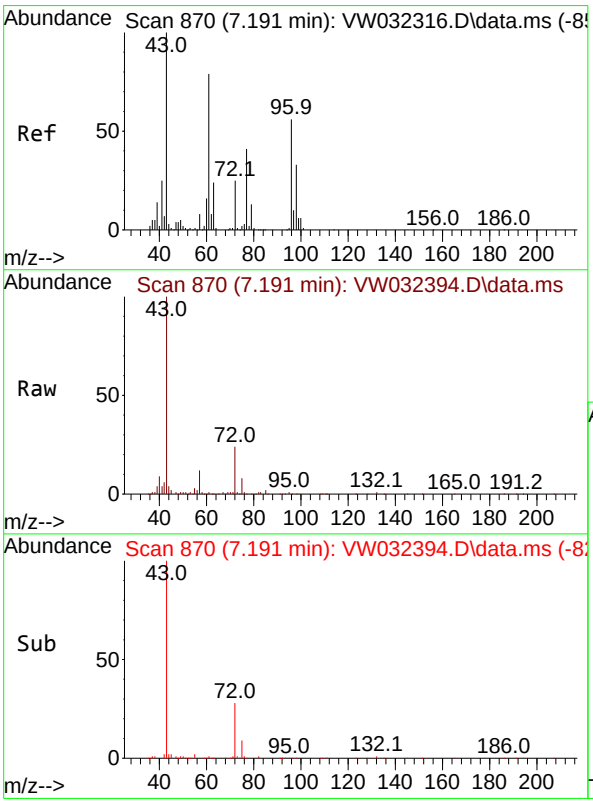
Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.6



Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

Manual Integrations
APPROVED

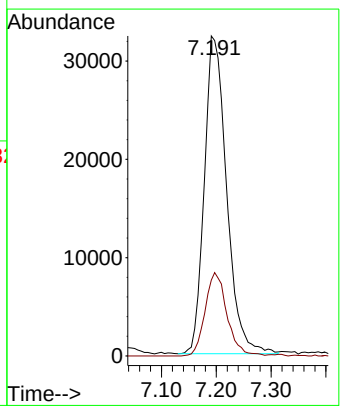
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

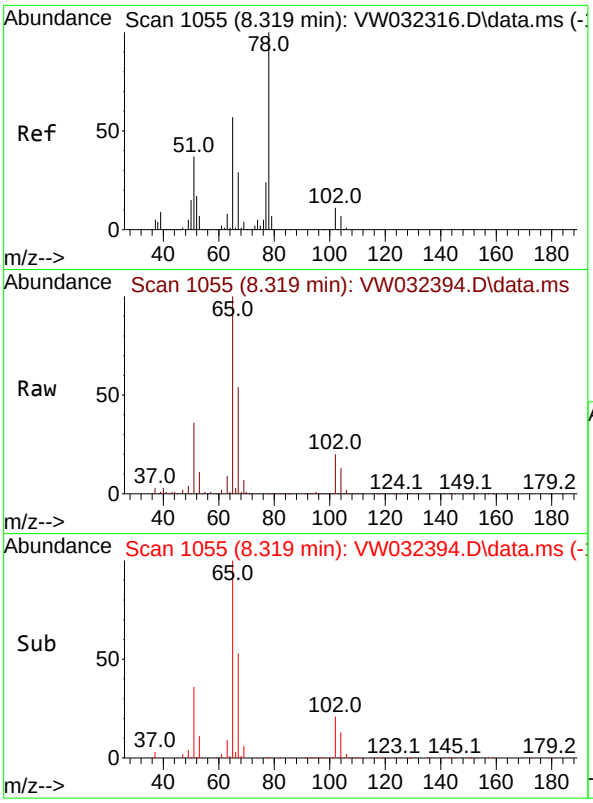


#25
2-Butanone
Concen: 71.771 ug/l
RT: 7.191 min Scan# 870
Delta R.T. -0.000 min
Lab File: VW032394.D
Acq: 20 Oct 2025 17:08

Tgt Ion: 43 Resp: 91330

Ion	Ratio	Lower	Upper
43	100		
72	23.9	21.4	32.2

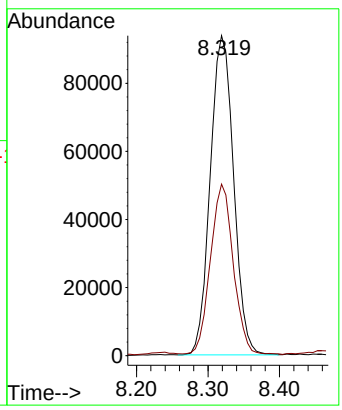




#33
1,2-Dichloroethane-d4
Concen: 63.109 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032394.D
Acq: 20 Oct 2025 17:08

Tgt Ion: 65 Resp: 21295

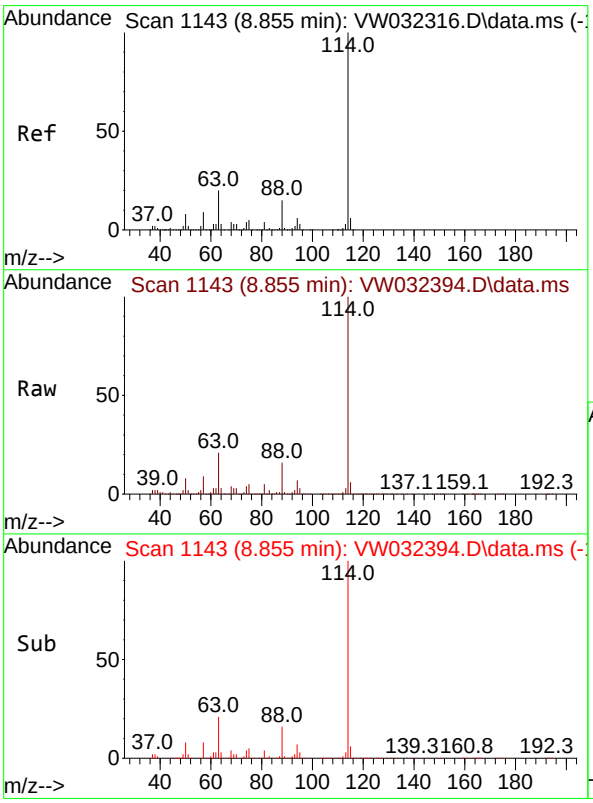
Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	99.6



Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

Manual Integrations
APPROVED

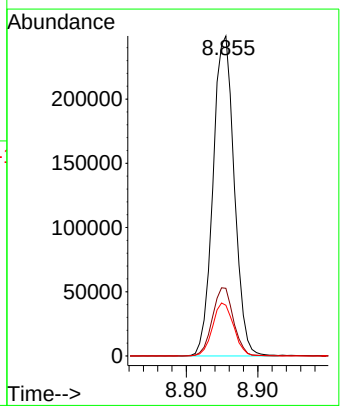
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

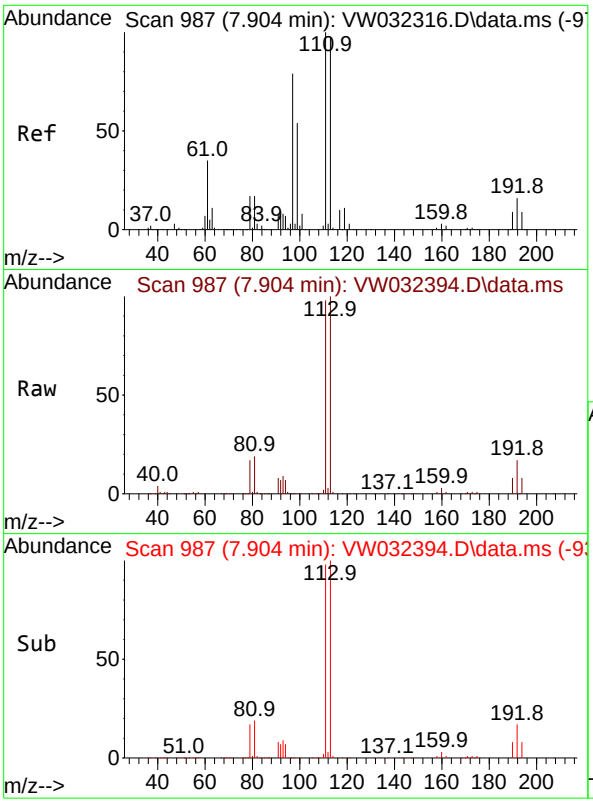


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VW032394.D
Acq: 20 Oct 2025 17:08

Tgt Ion:114 Resp: 513228

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	40.4
88	15.9	0.0	32.0

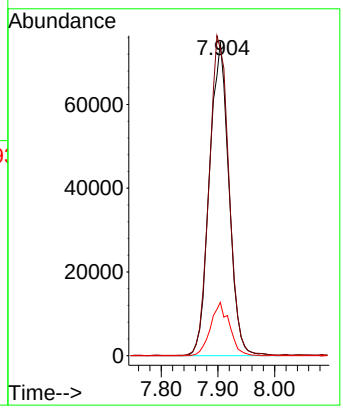




#35
Dibromofluoromethane
Concen: 53.675 ug/l
RT: 7.904 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032394.D
Acq: 20 Oct 2025 17:08

Tgt Ion:113 Resp: 17840

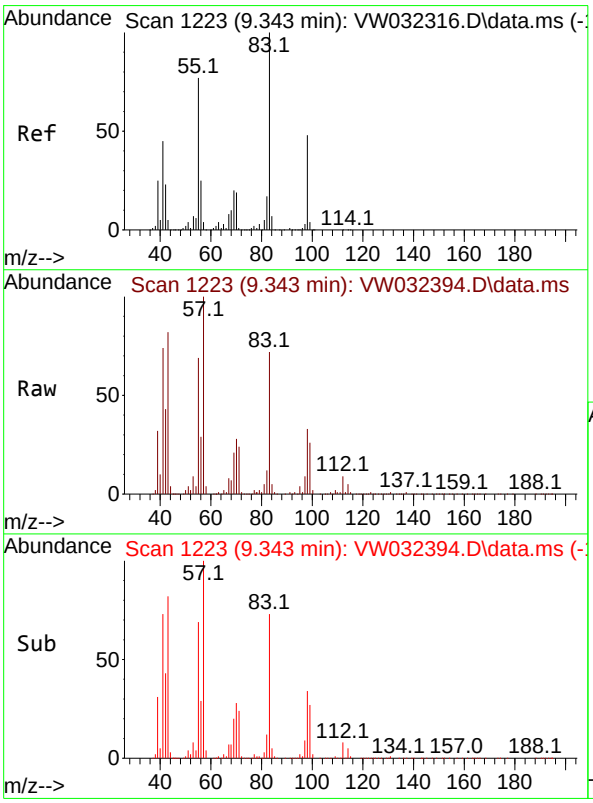
Ion	Ratio	Lower	Upper
113	100		
111	103.7	83.9	125.9
192	16.5	14.6	21.8



Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

Manual Integrations
APPROVED

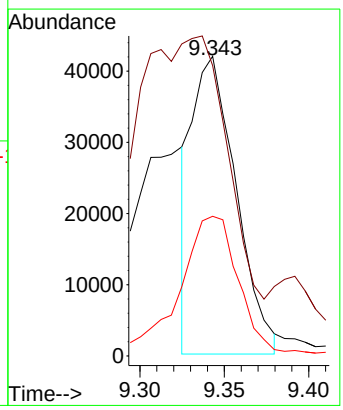
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

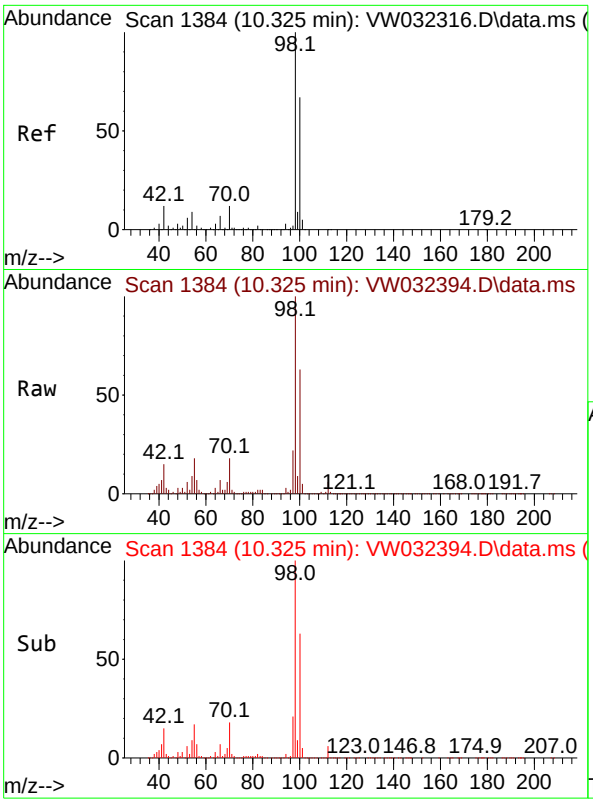


#39
Methylcyclohexane
Concen: 13.425 ug/l m
RT: 9.343 min Scan# 1223
Delta R.T. -0.000 min
Lab File: VW032394.D
Acq: 20 Oct 2025 17:08

Tgt Ion: 83 Resp: 75959

Ion	Ratio	Lower	Upper
83	100		
55	96.9	58.4	87.6#
98	46.6	39.4	59.2

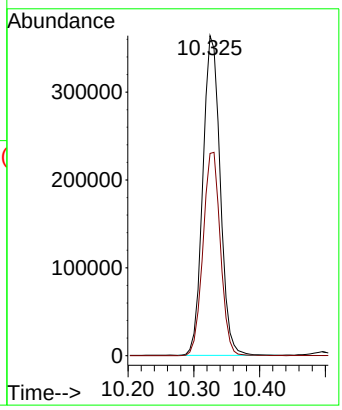




#50
Toluene-d8
Concen: 54.487 ug/l
RT: 10.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032394.D
Acq: 20 Oct 2025 17:08

Tgt Ion: 98 Resp: 66839

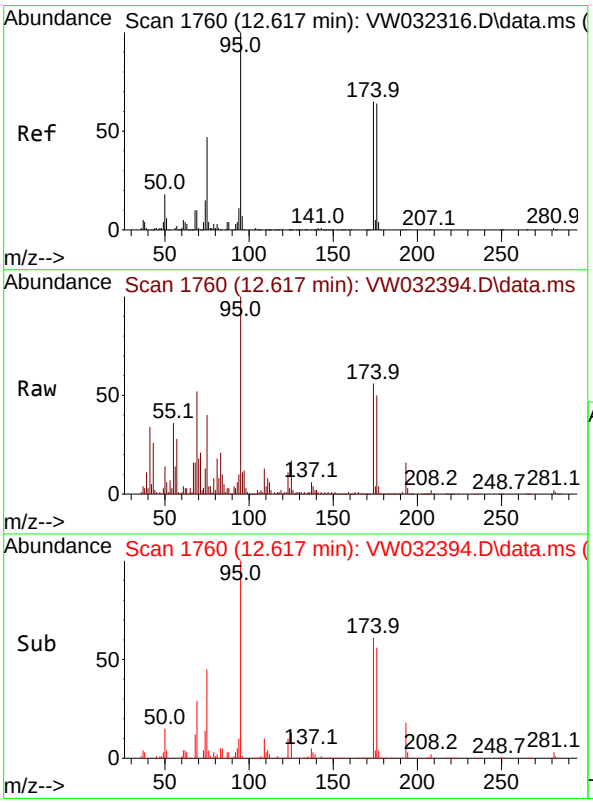
Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.4	77.2



Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

Manual Integrations
APPROVED

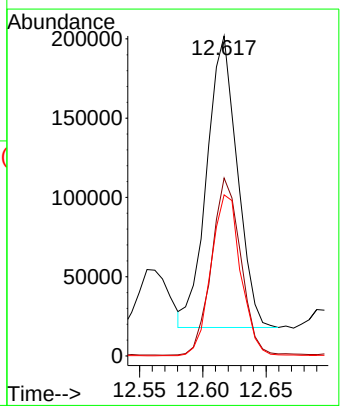
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

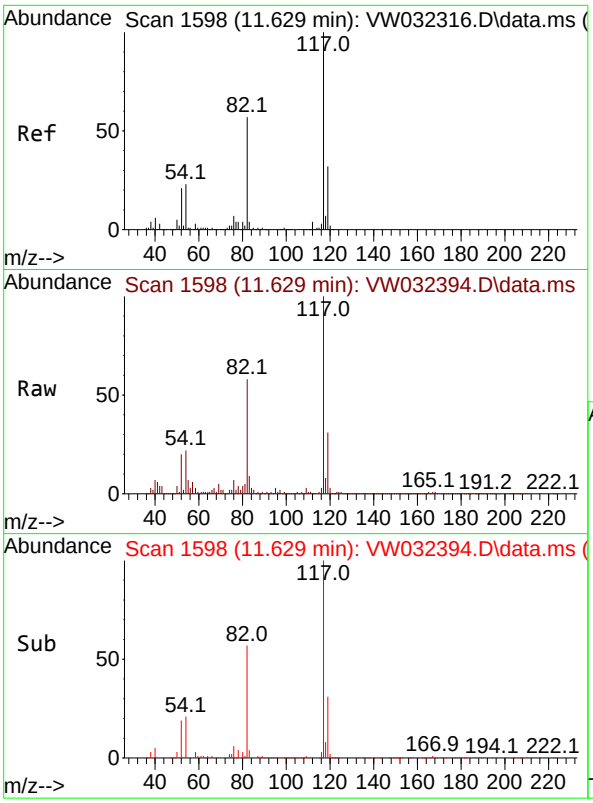


#62
4-Bromofluorobenzene
Concen: 66.410 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032394.D
Acq: 20 Oct 2025 17:08

Tgt Ion: 95 Resp: 307913

Ion	Ratio	Lower	Upper
95	100		
174	58.2	0.0	145.6
176	54.2	0.0	140.8

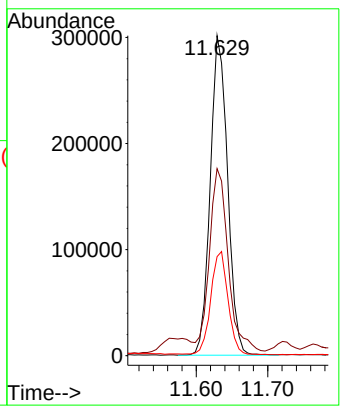




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032394.D
Acq: 20 Oct 2025 17:08

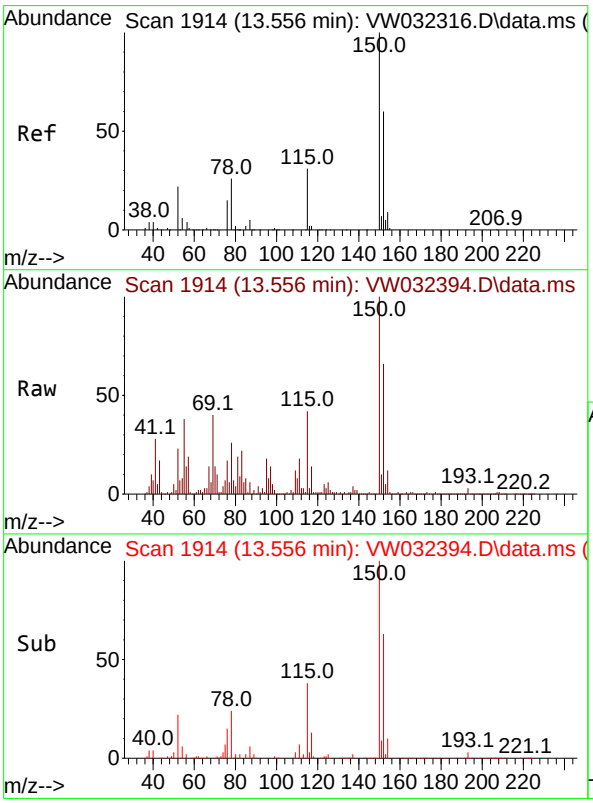
Tgt Ion:117 Resp: 50732

Ion	Ratio	Lower	Upper
117	100		
82	54.9	42.7	64.1
119	30.7	25.2	37.8



Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

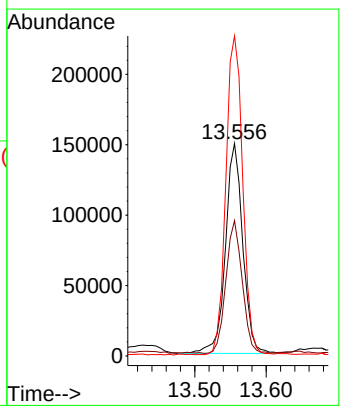
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032394.D
Acq: 20 Oct 2025 17:08

Tgt Ion:152 Resp: 251321

Ion	Ratio	Lower	Upper
152	100		
115	59.5	31.8	95.4
150	147.0	0.0	343.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

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_W\Method\82W100125S.M
Title : SW846 8260

Signal : TIC: VW032394.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.991	15	17	37	rVB3	51274	144792	2.21%	0.128%
2	4.161	363	373	384	rBV	111341	328468	5.02%	0.291%
3	4.423	405	416	426	rBV2	23491	76415	1.17%	0.068%
4	4.960	491	504	525	rBV9	15799	103035	1.57%	0.091%
5	6.898	810	822	833	rBV3	24839	91052	1.39%	0.081%
6	7.191	859	870	881	rBV2	59743	175755	2.69%	0.155%
7	7.904	974	987	991	rBV	236918	583361	8.92%	0.516%
8	7.959	991	996	1004	rVV	342325	789103	12.06%	0.698%
9	8.051	1004	1011	1021	rVB2	99033	257897	3.94%	0.228%
10	8.166	1023	1030	1036	rBV2	37874	89770	1.37%	0.079%
11	8.233	1036	1041	1048	rVB2	30932	67526	1.03%	0.060%
12	8.319	1048	1055	1065	rVB	253179	562878	8.60%	0.498%
13	8.441	1067	1075	1080	rBV4	58483	163260	2.50%	0.144%
14	8.587	1092	1099	1109	rVB	122096	288354	4.41%	0.255%
15	8.849	1134	1142	1153	rBV	580805	1221444	18.67%	1.081%
16	9.081	1173	1180	1187	rBV	71459	169841	2.60%	0.150%
17	9.154	1187	1192	1203	rVB2	45040	102341	1.56%	0.091%
18	9.337	1209	1222	1227	rBV3	477660	1548690	23.67%	1.370%
19	9.392	1227	1231	1240	rVB	261503	514771	7.87%	0.455%
20	9.611	1257	1267	1276	rBV2	362812	898190	13.73%	0.795%
21	9.758	1284	1291	1301	rBV2	291595	622045	9.51%	0.550%
22	9.904	1309	1315	1318	rBV	109157	209753	3.21%	0.186%
23	9.947	1318	1322	1337	rVB	163646	368834	5.64%	0.326%
24	10.081	1338	1344	1350	rBV2	270014	599690	9.17%	0.531%
25	10.215	1360	1366	1368	rBV3	151408	275103	4.20%	0.243%
26	10.251	1369	1372	1378	rVV2	197625	331995	5.07%	0.294%
27	10.325	1378	1384	1396	rVV	1240006	2537181	38.78%	2.244%
28	10.507	1407	1414	1423	rVB3	346100	858675	13.12%	0.760%
29	10.623	1426	1433	1437	rBV2	363797	721778	11.03%	0.639%
30	10.666	1437	1440	1449	rVB	354029	596659	9.12%	0.528%
31	10.764	1449	1456	1460	rBV3	349553	782397	11.96%	0.692%
32	10.849	1466	1470	1475	rVB	313487	508750	7.78%	0.450%
33	10.934	1475	1484	1491	rBV	1298853	2341270	35.78%	2.071%
34	11.038	1493	1501	1509	rBV	879359	2002178	30.60%	1.771%
35	11.111	1509	1513	1517	rVV	324278	570932	8.73%	0.505%
36	11.178	1521	1524	1527	rVV	211529	353337	5.40%	0.313%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

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_W\Method\82W100125S.M
Title : SW846 8260

37	11.233	1527	1533	1538	rVV	1357338	2735841	41.81%	2.420%
38	11.282	1538	1541	1545	rVV2	367507	644139	9.84%	0.570%
39	11.337	1545	1550	1554	rVV2	631494	1215142	18.57%	1.075%
40	11.379	1554	1557	1562	rVV2	315005	577536	8.83%	0.511%
41	11.434	1562	1566	1574	rVB	488696	946274	14.46%	0.837%
42	11.507	1574	1578	1581	rBV2	121807	196008	3.00%	0.173%
43	11.629	1593	1598	1607	rVB	873502	1597147	24.41%	1.413%
44	11.763	1616	1620	1624	rBV	363892	541451	8.28%	0.479%
45	11.818	1624	1629	1633	rBV3	404014	721840	11.03%	0.639%
46	11.873	1633	1638	1642	rBV	646998	1227957	18.77%	1.086%
47	11.977	1650	1655	1662	rBV3	386934	1119034	17.10%	0.990%
48	12.062	1666	1669	1673	rVB2	392207	605210	9.25%	0.535%
49	12.135	1673	1681	1687	rBV2	1484408	3511308	53.67%	3.106%
50	12.251	1692	1700	1704	rVB	2207233	3930468	60.07%	3.477%
51	12.361	1704	1718	1724	rBV4	1821776	5918065	90.45%	5.235%
52	12.446	1729	1732	1736	rVV4	270287	410166	6.27%	0.363%
53	12.617	1754	1760	1765	rVB	1244516	2130350	32.56%	1.885%
54	12.696	1770	1773	1777	rVB4	291712	465227	7.11%	0.412%
55	12.775	1782	1786	1792	rVB2	1445658	2561598	39.15%	2.266%
56	12.855	1792	1799	1804	rBV6	807820	2002023	30.60%	1.771%
57	12.934	1805	1812	1818	rBV7	994611	2947616	45.05%	2.608%
58	13.074	1826	1835	1839	rBV3	855210	2372109	36.25%	2.098%
59	13.123	1839	1843	1846	rVV	1299858	2076332	31.73%	1.837%
60	13.159	1846	1849	1855	rVB	1998579	3066423	46.87%	2.713%
61	13.287	1862	1870	1874	rBV3	954885	2306023	35.24%	2.040%
62	13.336	1875	1878	1882	rVB	645200	983508	15.03%	0.870%
63	13.476	1899	1901	1906	rVB4	570024	743309	11.36%	0.658%
64	13.556	1910	1914	1922	rVB	985416	2053157	31.38%	1.816%
65	13.690	1932	1936	1940	rBV	767574	1304301	19.93%	1.154%
66	13.873	1961	1966	1970	rBV3	1621555	2913328	44.53%	2.577%
67	13.976	1980	1983	1986	rBV4	449112	598852	9.15%	0.530%
68	14.129	2005	2008	2013	rVB	1143547	1701844	26.01%	1.506%
69	14.190	2014	2018	2022	rBV3	572581	1003111	15.33%	0.887%
70	14.257	2025	2029	2035	rVB4	824920	1466539	22.41%	1.297%
71	14.379	2045	2049	2054	rVB3	1826197	2672718	40.85%	2.364%
72	14.543	2073	2076	2081	rVB3	1188841	1703679	26.04%	1.507%
73	14.732	2104	2107	2112	rBV5	457771	788110	12.05%	0.697%
74	14.793	2113	2117	2119	rVV3	1090696	1729947	26.44%	1.530%
75	14.830	2119	2123	2130	rVB	3629495	6542856	100.00%	5.788%
76	15.318	2198	2203	2210	rVB	3828679	6424815	98.20%	5.684%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

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_W\Method\82W100125S.M
Title : SW846 8260

77	15.391	2211	2215	2220	rBV6	718863	1442010	22.04%	1.276%
78	15.622	2250	2253	2255	rBV3	493650	747300	11.42%	0.661%
79	15.720	2265	2269	2277	rVB5	1781266	3715521	56.79%	3.287%
80	16.208	2345	2349	2354	rVB2	923608	1606595	24.55%	1.421%
81	16.275	2355	2360	2368	rVB	2609788	5217167	79.74%	4.615%

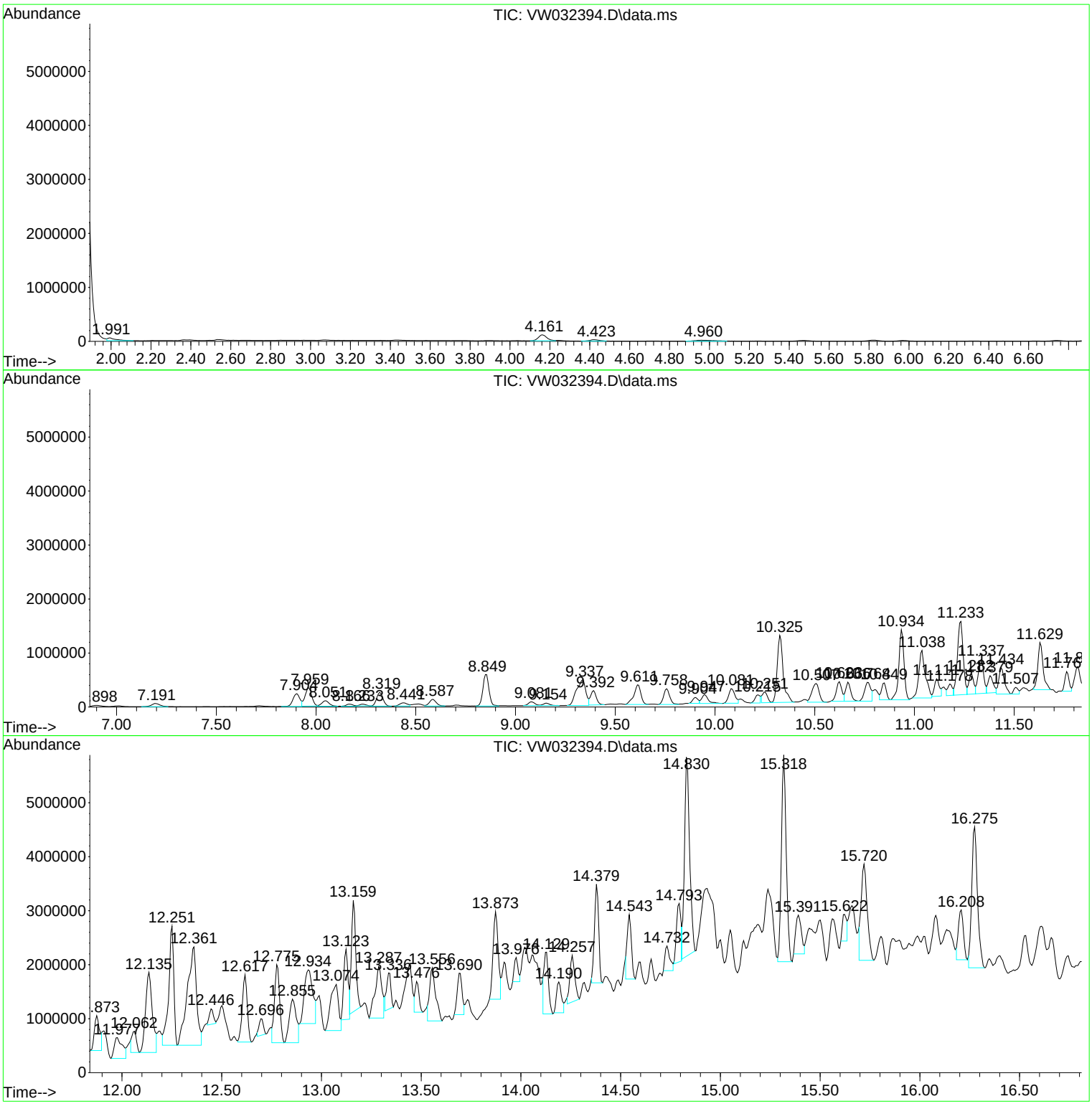
Sum of corrected areas: 113041474

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

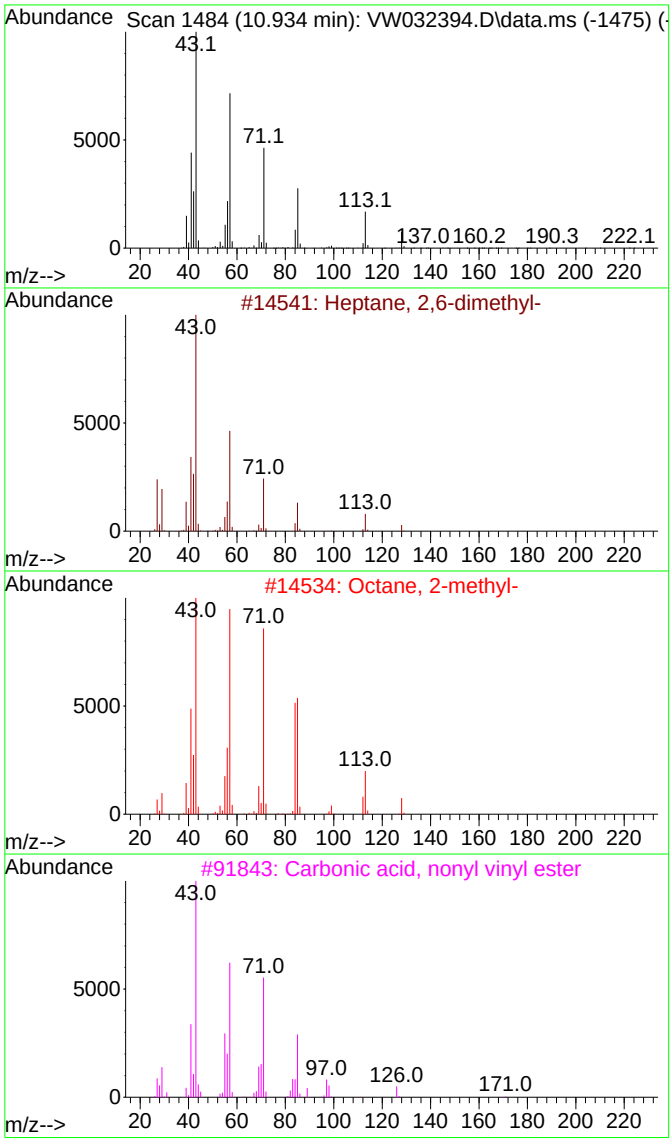
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260

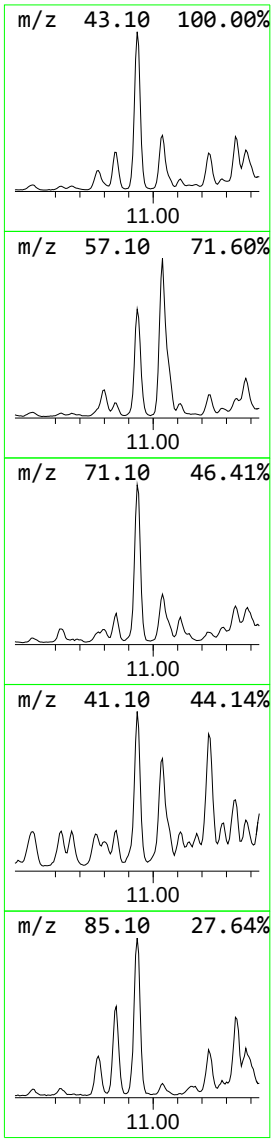
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Heptane, 2,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.934	73.30 ug/l	2341270	Chlorobenzene-d5	11.629

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	94
2	Octane, 2-methyl-	128	C9H20	003221-61-2	91
3	Carbonic acid, nonyl vinyl ester	214	C12H22O3	1000383-25-6	64
4	Undecane, 3,7-dimethyl-	184	C13H28	017301-29-0	59
5	Nonane	128	C9H20	000111-84-2	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

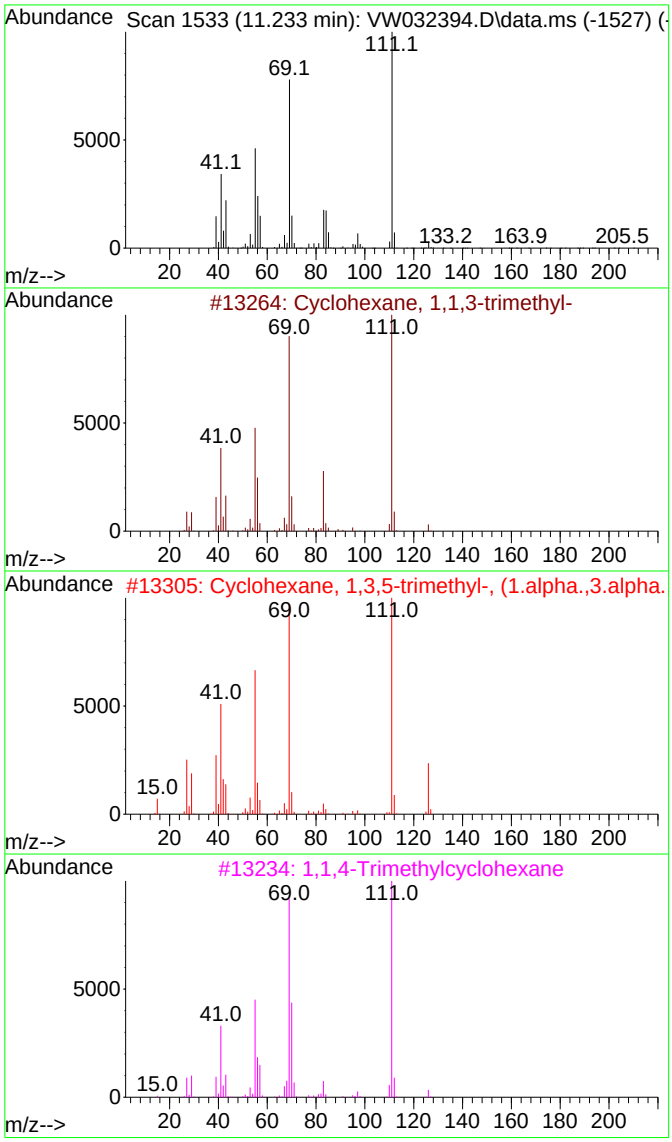
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260

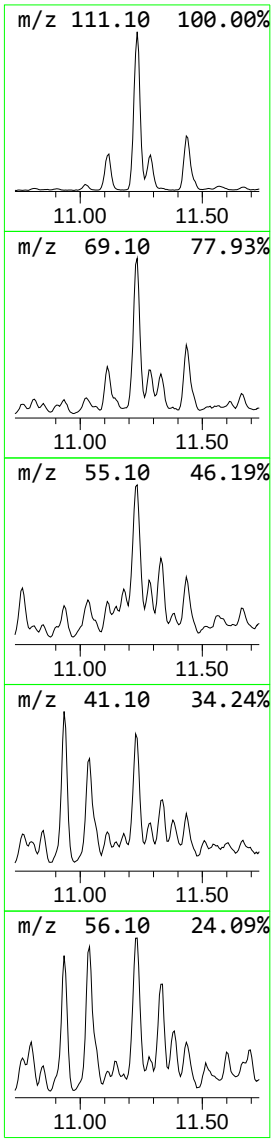
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.233	85.65 ug/l	2735840	Chlorobenzene-d5	11.629

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	90
2	Cyclohexane, 1,3,5-trimethyl-, (...	126	C9H18	001795-27-3	64
3	1,1,4-Trimethylcyclohexane	126	C9H18	007094-27-1	64
4	Cyclooctane, butyl-	168	C12H24	016538-93-5	59
5	Cyclohexane, 1,2,4-trimethyl-	126	C9H18	002234-75-5	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

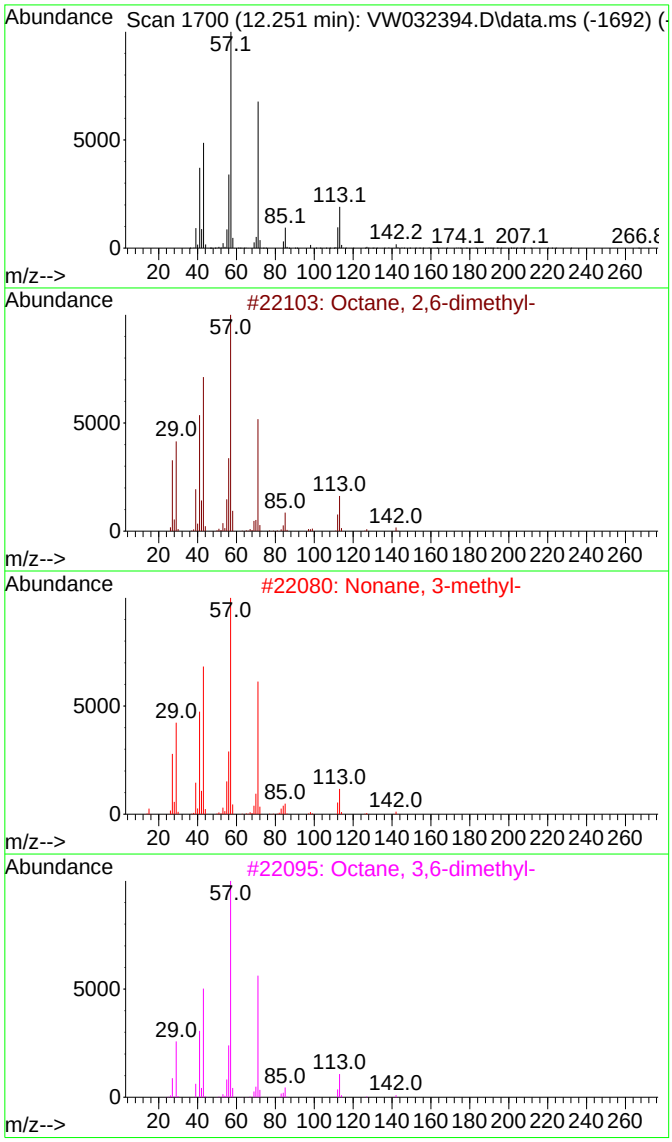
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260

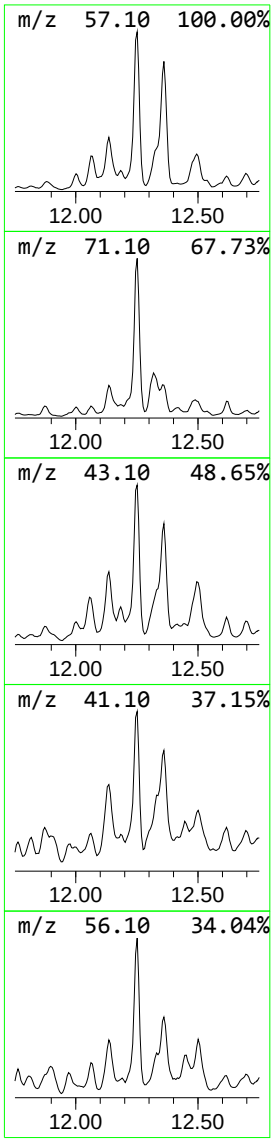
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Octane, 2,6-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.251	123.05 ug/l	3930470	Chlorobenzene-d5	11.629

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	91
2	Nonane, 3-methyl-	142	C10H22	005911-04-6	91
3	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	87
4	Sulfurous acid, di(2-ethylhexyl)...	306	C16H34O3S	1000309-19-1	64
5	Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	59





Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

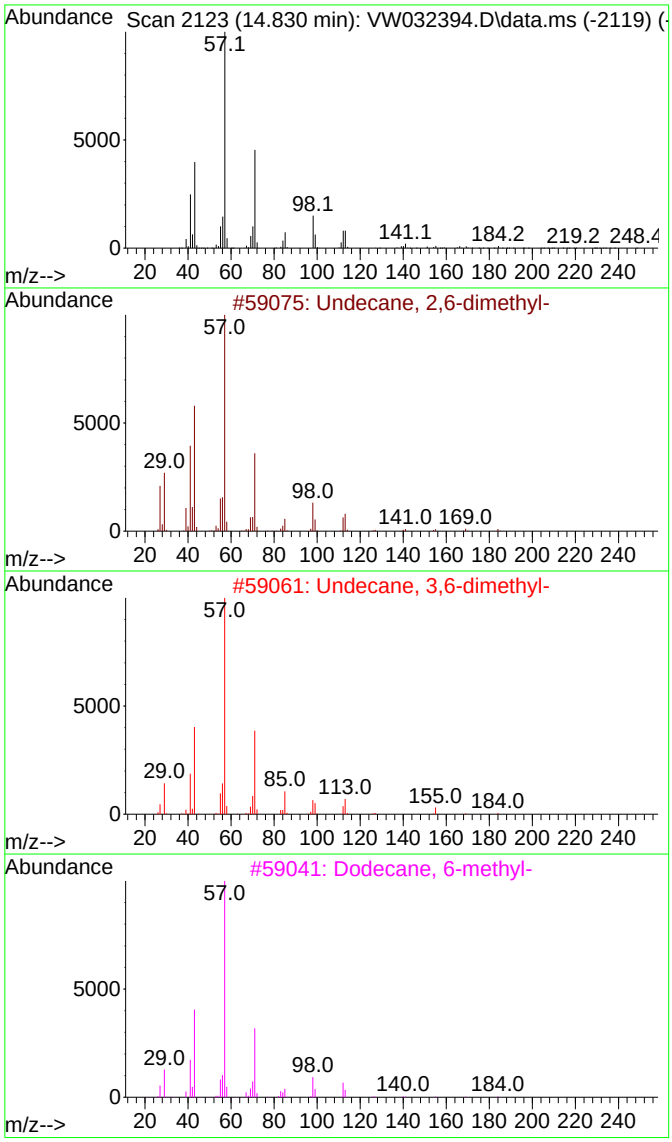
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260

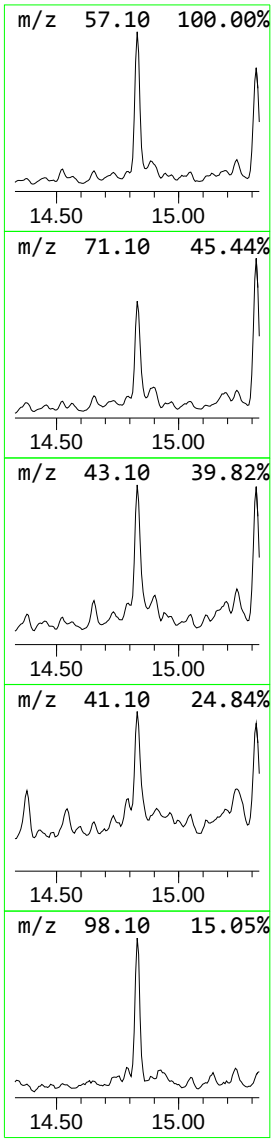
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Undecane, 2,6-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.830	159.34 ug/l	6542860	1,4-Dichlorobenzene-d4	13.556

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	91
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	90
3	Dodecane, 6-methyl-	184	C13H28	006044-71-9	90
4	Undecane, 4,6-dimethyl-	184	C13H28	017312-82-2	80
5	Decane, 2,6,8-trimethyl-	184	C13H28	062108-26-3	78





Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

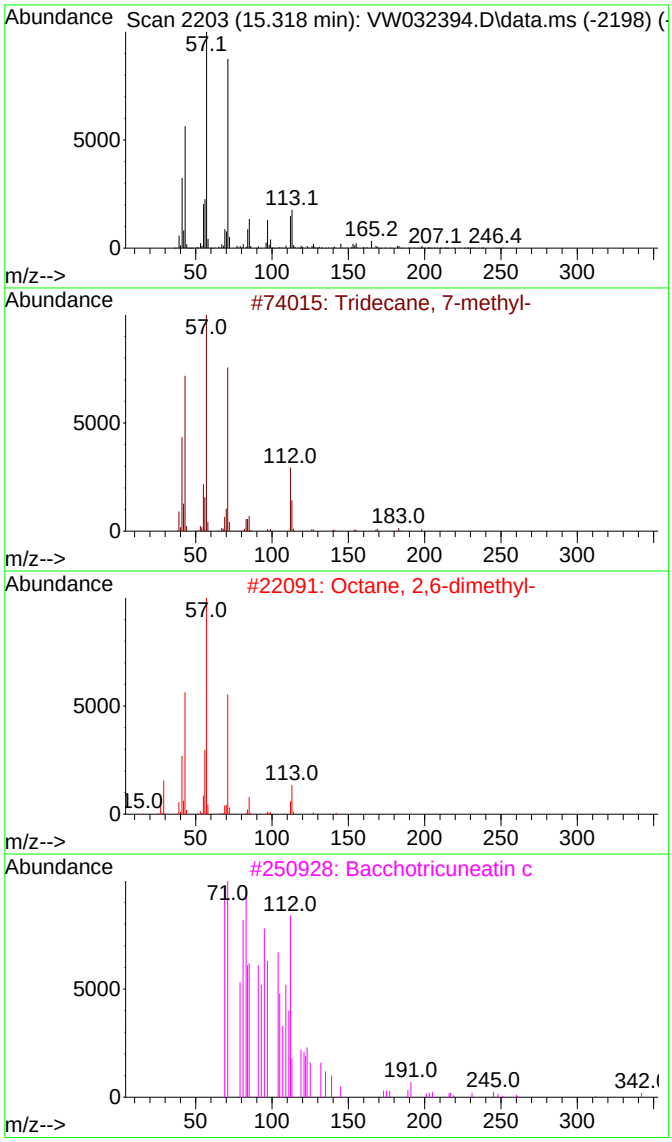
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260

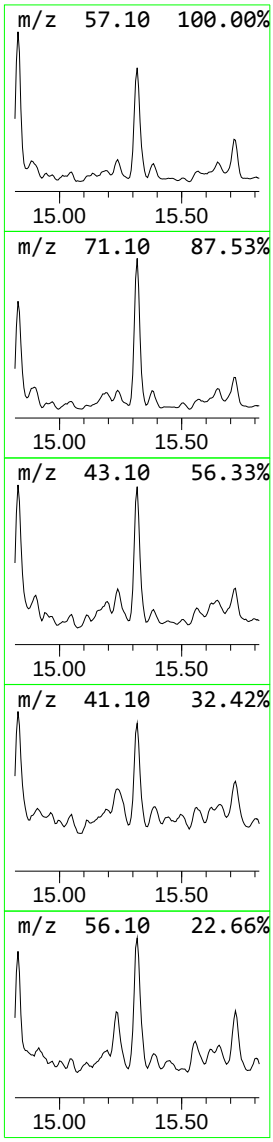
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 Tridecane, 7-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.318	156.46 ug/l	6424820	1,4-Dichlorobenzene-d4	13.556

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane, 7-methyl-	198	C14H30	026730-14-3	87
2	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	86
3	Bacchotricuneatin c	342	C20H22O5	066563-30-2	83
4	Nonane, 2,6-dimethyl-	156	C11H24	017302-28-2	72
5	Nonane, 4-methyl-5-propyl-	184	C13H28	062185-55-1	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260

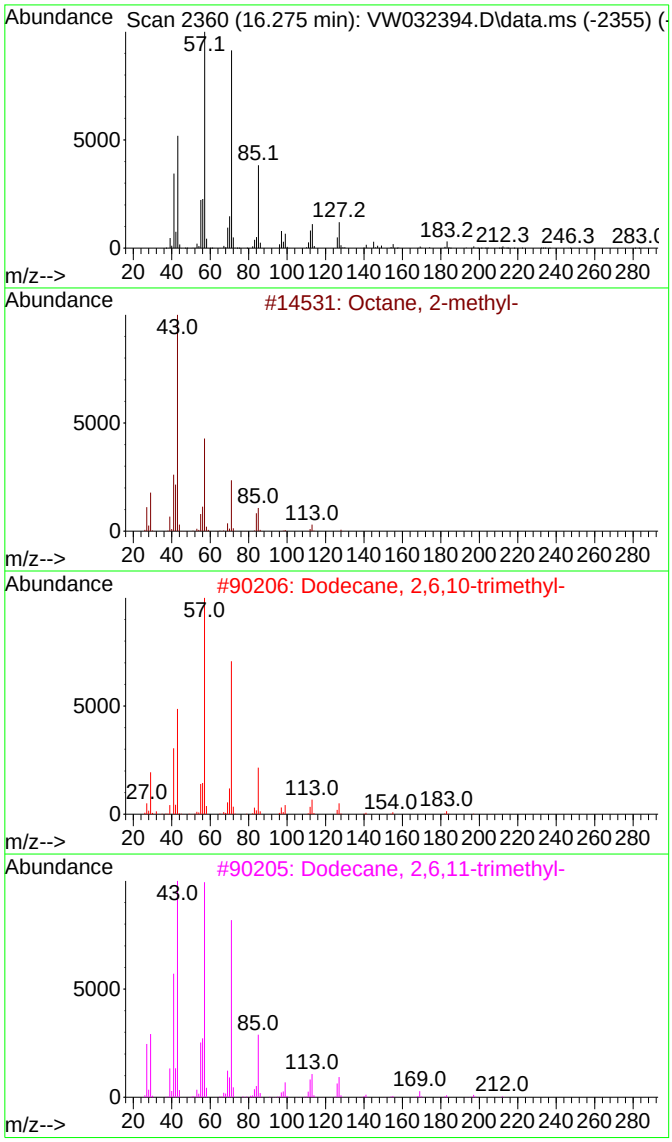
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

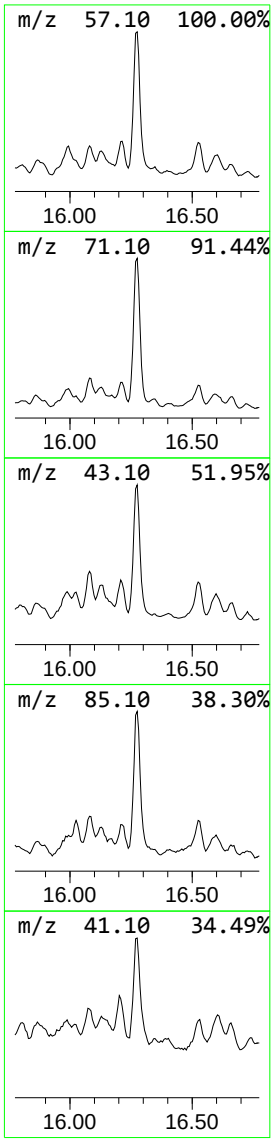
****

Peak Number 10 Octane, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.275	127.05 ug/l	5217170	1,4-Dichlorobenzene-d4	13.556

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2-methyl-	128	C9H20	003221-61-2	87
2	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	86
3	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	80
4	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	72
5	Nonane, 3-methyl-5-propyl-	184	C13H28	031081-18-2	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032394.D
Acq On : 20 Oct 2025 17:08
Operator : SY/MD
Sample : Q3393-02
Misc : 4.91g/5mL/MSVOA_W/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
PR132-S10-022047-20251017

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.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
Heptane, 2,6-di...	10.934	73.3	ug/l	2341270	3	11.629	1597150	50.0
Cyclohexane, 1,...	11.233	85.7	ug/l	2735840	3	11.629	1597150	50.0
Octane, 2,6-dim...	12.251	123.1	ug/l	3930470	3	11.629	1597150	50.0
Undecane, 2,6-d...	14.830	159.3	ug/l	6542860	4	13.556	2053160	50.0
Tridecane, 7-me...	15.318	156.5	ug/l	6424820	4	13.556	2053160	50.0
Octane, 2-methyl-	16.275	127.1	ug/l	5217170	4	13.556	2053160	50.0

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

Report of Analysis

Client:	AECOM	Date Collected:	10/17/25
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	10/17/25
Client Sample ID:	PR132-S08-013038-202510	SDG No.:	Q3393
Lab Sample ID:	Q3393-03	Matrix:	SOIL
Analytical Method:	8260D	Level : LOW	% Solid: 52.8
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	9.50	U	1	2.20	9.50	ug/Kg	10/21/25 12:38	VY102125
74-87-3	Chloromethane	9.50	U	1	2.20	9.50	ug/Kg	10/21/25 12:38	VY102125
75-01-4	Vinyl Chloride	9.50	U	1	1.50	9.50	ug/Kg	10/21/25 12:38	VY102125
74-83-9	Bromomethane	9.50	U	1	2.00	9.50	ug/Kg	10/21/25 12:38	VY102125
75-00-3	Chloroethane	9.50	U	1	2.40	9.50	ug/Kg	10/21/25 12:38	VY102125
75-69-4	Trichlorofluoromethane	9.50	U	1	2.30	9.50	ug/Kg	10/21/25 12:38	VY102125
76-13-1	1,1,2-Trichlorotrifluoroethane	9.50	U	1	2.00	9.50	ug/Kg	10/21/25 12:38	VY102125
75-35-4	1,1-Dichloroethene	9.50	U	1	1.90	9.50	ug/Kg	10/21/25 12:38	VY102125
67-64-1	Acetone	78.3		1	9.00	47.3	ug/Kg	10/21/25 12:38	VY102125
75-15-0	Carbon Disulfide	2.70	J	1	2.00	9.50	ug/Kg	10/21/25 12:38	VY102125
1634-04-4	Methyl tert-butyl Ether	9.50	U	1	1.40	9.50	ug/Kg	10/21/25 12:38	VY102125
79-20-9	Methyl Acetate	9.50	U	1	2.90	9.50	ug/Kg	10/21/25 12:38	VY102125
75-09-2	Methylene Chloride	18.9	U	1	6.70	18.9	ug/Kg	10/21/25 12:38	VY102125
156-60-5	trans-1,2-Dichloroethene	9.50	U	1	1.60	9.50	ug/Kg	10/21/25 12:38	VY102125
75-34-3	1,1-Dichloroethane	9.50	U	1	1.50	9.50	ug/Kg	10/21/25 12:38	VY102125
110-82-7	Cyclohexane	9.50	U	1	1.50	9.50	ug/Kg	10/21/25 12:38	VY102125
78-93-3	2-Butanone	22.5	J	1	12.4	47.3	ug/Kg	10/21/25 12:38	VY102125
56-23-5	Carbon Tetrachloride	9.50	U	1	1.80	9.50	ug/Kg	10/21/25 12:38	VY102125
156-59-2	cis-1,2-Dichloroethene	9.50	U	1	1.40	9.50	ug/Kg	10/21/25 12:38	VY102125
74-97-5	Bromochloromethane	9.50	U	1	2.20	9.50	ug/Kg	10/21/25 12:38	VY102125
67-66-3	Chloroform	9.50	U	1	1.60	9.50	ug/Kg	10/21/25 12:38	VY102125
71-55-6	1,1,1-Trichloroethane	9.50	U	1	1.80	9.50	ug/Kg	10/21/25 12:38	VY102125
108-87-2	Methylcyclohexane	18.6		1	1.70	9.50	ug/Kg	10/21/25 12:38	VY102125
71-43-2	Benzene	9.50	U	1	1.50	9.50	ug/Kg	10/21/25 12:38	VY102125
107-06-2	1,2-Dichloroethane	9.50	U	1	1.50	9.50	ug/Kg	10/21/25 12:38	VY102125
79-01-6	Trichloroethene	9.50	U	1	1.50	9.50	ug/Kg	10/21/25 12:38	VY102125
78-87-5	1,2-Dichloropropane	9.50	U	1	1.70	9.50	ug/Kg	10/21/25 12:38	VY102125
75-27-4	Bromodichloromethane	9.50	U	1	1.50	9.50	ug/Kg	10/21/25 12:38	VY102125
108-10-1	4-Methyl-2-Pentanone	47.3	U	1	6.80	47.3	ug/Kg	10/21/25 12:38	VY102125
108-88-3	Toluene	9.50	U	1	1.50	9.50	ug/Kg	10/21/25 12:38	VY102125
10061-02-6	t-1,3-Dichloropropene	9.50	U	1	1.20	9.50	ug/Kg	10/21/25 12:38	VY102125
10061-01-5	cis-1,3-Dichloropropene	9.50	U	1	1.20	9.50	ug/Kg	10/21/25 12:38	VY102125
79-00-5	1,1,2-Trichloroethane	9.50	U	1	1.70	9.50	ug/Kg	10/21/25 12:38	VY102125
591-78-6	2-Hexanone	47.3	U	1	7.00	47.3	ug/Kg	10/21/25 12:38	VY102125
124-48-1	Dibromochloromethane	9.50	U	1	1.60	9.50	ug/Kg	10/21/25 12:38	VY102125
106-93-4	1,2-Dibromoethane	9.50	U	1	1.70	9.50	ug/Kg	10/21/25 12:38	VY102125
127-18-4	Tetrachloroethene	9.50	U	1	2.00	9.50	ug/Kg	10/21/25 12:38	VY102125
108-90-7	Chlorobenzene	9.50	U	1	1.70	9.50	ug/Kg	10/21/25 12:38	VY102125
100-41-4	Ethyl Benzene	9.50	U	1	1.30	9.50	ug/Kg	10/21/25 12:38	VY102125
179601-23-1	m/p-Xylenes	18.9	U	1	2.30	18.9	ug/Kg	10/21/25 12:38	VY102125
95-47-6	o-Xylene	9.50	U	1	1.60	9.50	ug/Kg	10/21/25 12:38	VY102125
100-42-5	Styrene	9.50	U	1	1.30	9.50	ug/Kg	10/21/25 12:38	VY102125
75-25-2	Bromoform	9.50	U	1	1.60	9.50	ug/Kg	10/21/25 12:38	VY102125

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

Report of Analysis

Client:	AECOM	Date Collected:	10/17/25
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	10/17/25
Client Sample ID:	PR132-S08-013038-202510	SDG No.:	Q3393
Lab Sample ID:	Q3393-03	Matrix:	SOIL
Analytical Method:	8260D	Level : LOW	% Solid: 52.8
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	9.50	U	1	1.50	9.50	ug/Kg	10/21/25 12:38	VY102125
79-34-5	1,1,2,2-Tetrachloroethane	9.50	U	1	2.30	9.50	ug/Kg	10/21/25 12:38	VY102125
541-73-1	1,3-Dichlorobenzene	9.50	U	1	3.20	9.50	ug/Kg	10/21/25 12:38	VY102125
106-46-7	1,4-Dichlorobenzene	9.50	U	1	3.00	9.50	ug/Kg	10/21/25 12:38	VY102125
95-50-1	1,2-Dichlorobenzene	9.50	U	1	2.70	9.50	ug/Kg	10/21/25 12:38	VY102125
96-12-8	1,2-Dibromo-3-Chloropropane	9.50	U	1	3.50	9.50	ug/Kg	10/21/25 12:38	VY102125
120-82-1	1,2,4-Trichlorobenzene	9.50	U	1	5.60	9.50	ug/Kg	10/21/25 12:38	VY102125
87-61-6	1,2,3-Trichlorobenzene	9.50	U	1	6.00	9.50	ug/Kg	10/21/25 12:38	VY102125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.8			63 - 155	108%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.8			70 - 134	102%	SPK: 50		
2037-26-5	Toluene-d8	51.6			74 - 123	103%	SPK: 50		
460-00-4	4-Bromofluorobenzene	45.2			17 - 146	90%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	731000							
540-36-3	1,4-Difluorobenzene	1210000							
3114-55-4	Chlorobenzene-d5	1010000							
3855-82-1	1,4-Dichlorobenzene-d4	385000							
TENTATIVE IDENTIFIED COMPOUNDS									
003073-66-3	Cyclohexane, 1,1,3-trimethyl-	110	J			11.0	ug/Kg		
95-63-6	1,2,4-Trimethylbenzene	4.20	J			13.0	ug/Kg		
000091-17-8	Naphthalene, decahydro-	89.9	J			13.7	ug/Kg		
017301-23-4	Undecane, 2,6-dimethyl-	130	J			14.6	ug/Kg		
002051-30-1	Octane, 2,6-dimethyl-	85.5	J			15.1	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_Y\Data\VY102125\
Data File : VY023529.D
Acq On : 21 Oct 2025 12:38
Operator : SY/MD
Sample : Q3393-03
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

Quant Time: Oct 24 01:36:50 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

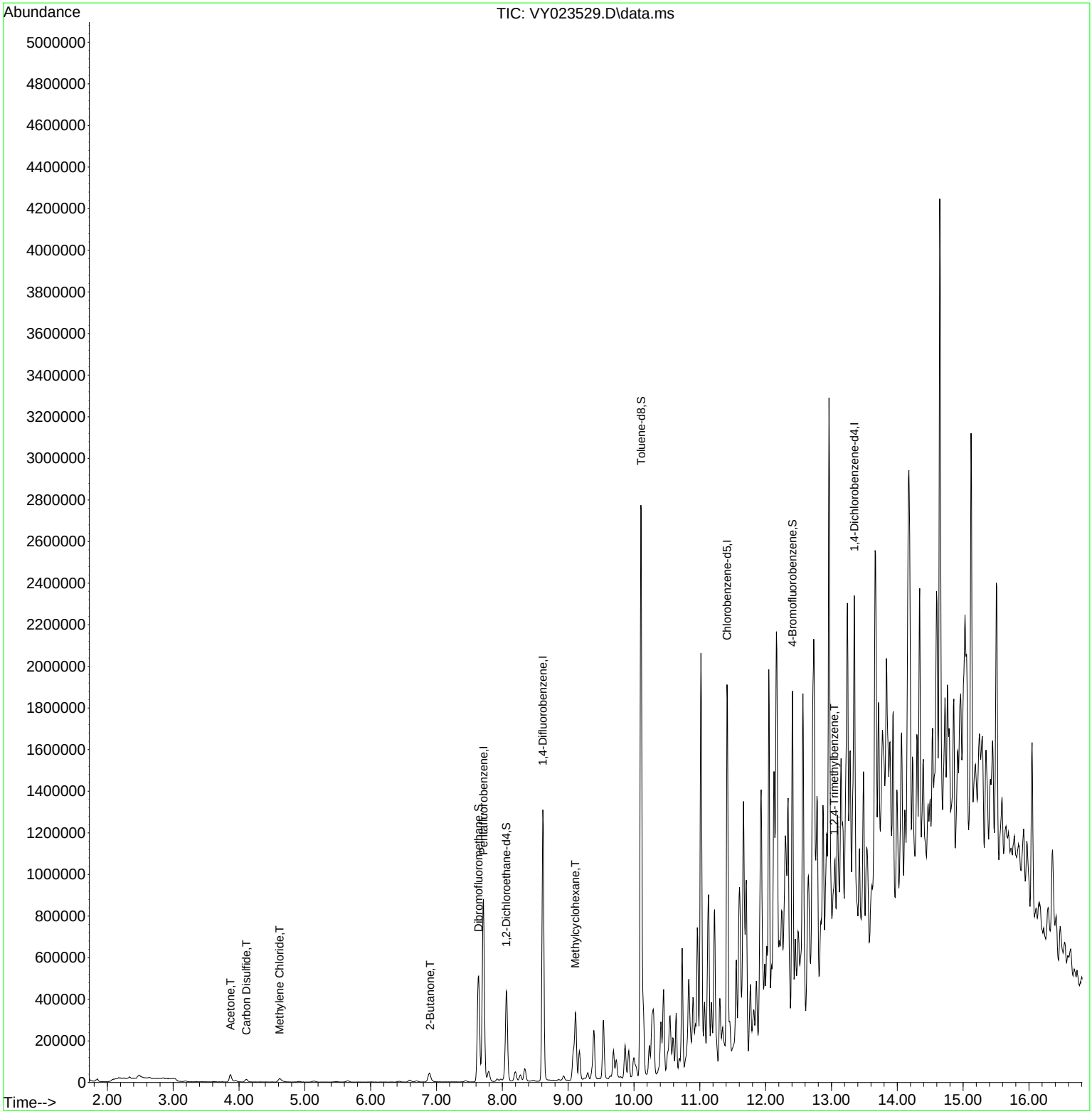
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	730515	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1210975	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1010042	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	384650	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	328658	53.802	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.600%			
35) Dibromofluoromethane	7.640	113	377689	50.759	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.520%			
50) Toluene-d8	10.109	98	1429858	51.600	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.200%			
62) 4-Bromofluorobenzene	12.408	95	413105	45.155	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 90.300%			
Target Compounds						Qvalue
16) Acetone	3.873	43	60146	41.358	ug/l	96
17) Carbon Disulfide	4.110	76	26755	1.435	ug/l	99
20) Methylene Chloride	4.616	84	12412	1.578	ug/l #	81
25) 2-Butanone	6.902	43	21069	11.867	ug/l	90
39) Methylcyclohexane	9.109	83	125865	9.813	ug/l #	88
84) 1,2,4-Trimethylbenzene	13.042	105	45201	2.211	ug/l	98

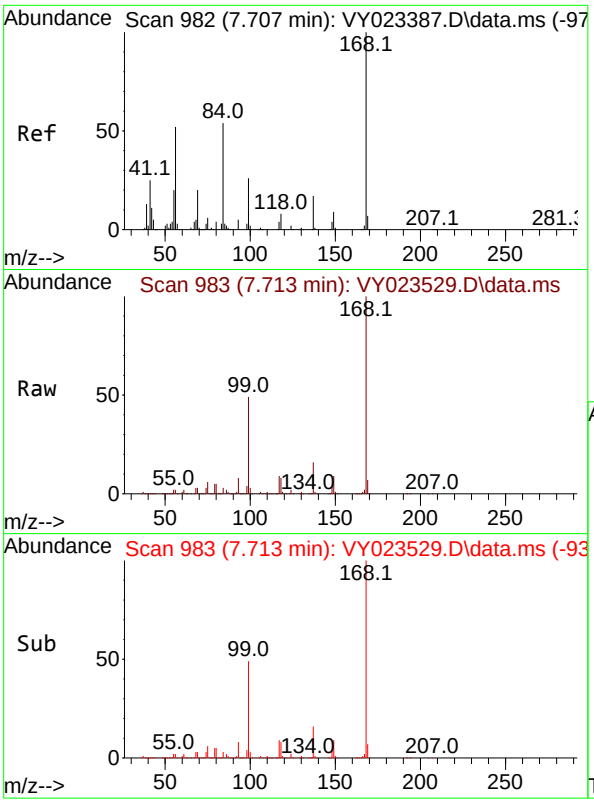
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023529.D
Acq On : 21 Oct 2025 12:38
Operator : SY/MD
Sample : Q3393-03
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

Quant Time: Oct 24 01:36:50 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



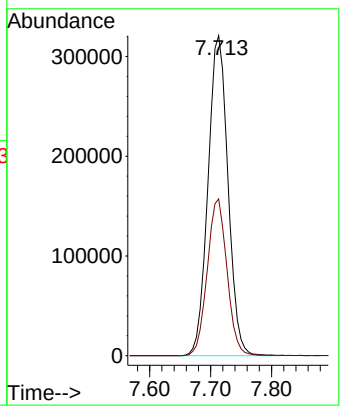


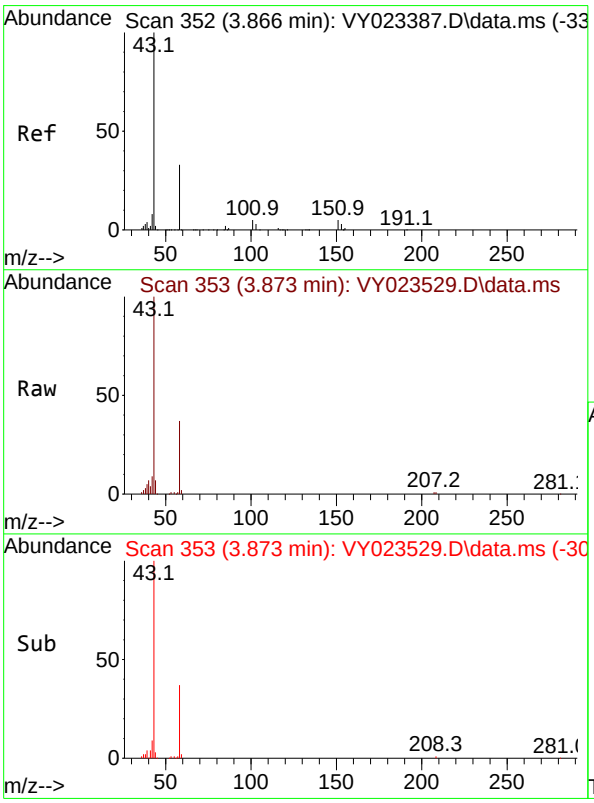
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

Tgt Ion:168 Resp: 730515

Ion	Ratio	Lower	Upper
168	100		
99	49.0	39.7	59.5

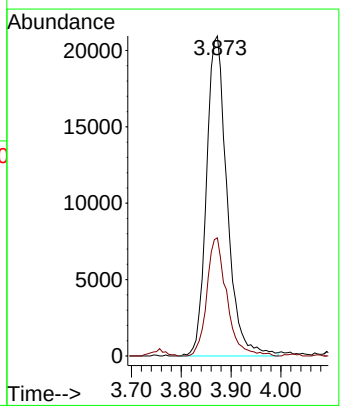


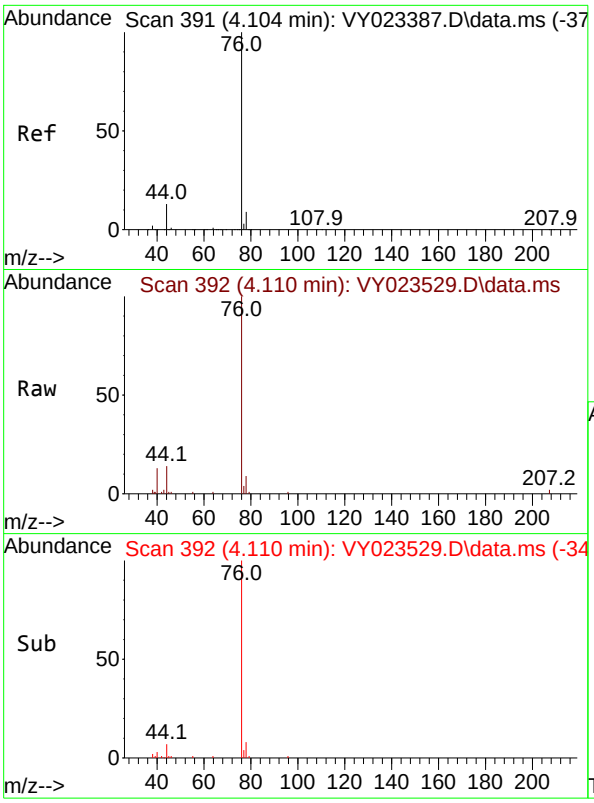


#16
Acetone
Concen: 41.358 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Tgt Ion: 43 Resp: 60146

Ion	Ratio	Lower	Upper
43	100		
58	36.9	27.7	41.5



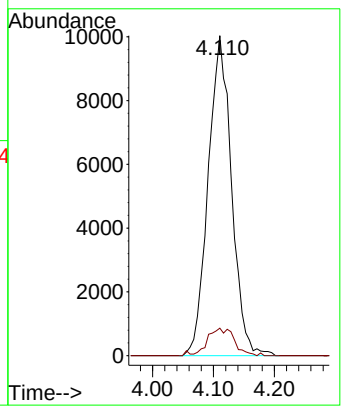


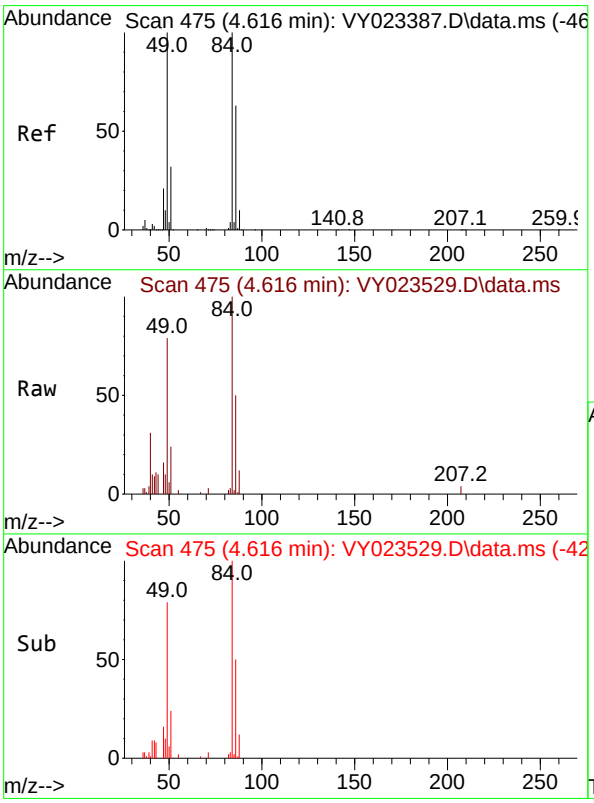
#17
Carbon Disulfide
Concen: 1.435 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

Tgt Ion: 76 Resp: 26755

Ion	Ratio	Lower	Upper
76	100		
78	8.6	7.3	10.9

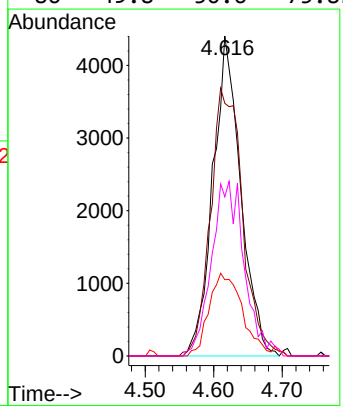


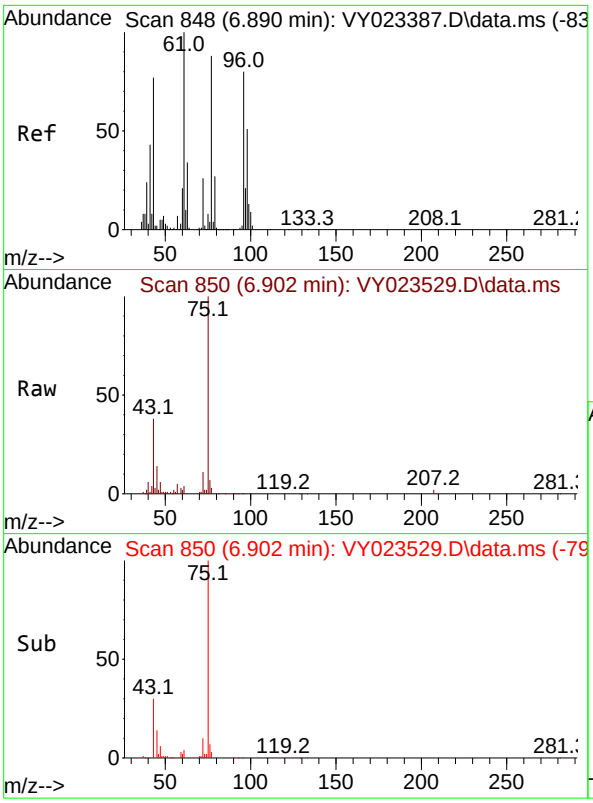


#20
Methylene Chloride
Concen: 1.578 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Tgt Ion: 84 Resp: 12412

Ion	Ratio	Lower	Upper
84	100		
49	78.9	80.2	120.4#
51	23.9	25.9	38.9#
86	49.8	50.6	75.8#



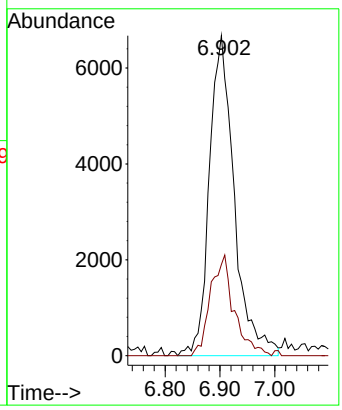


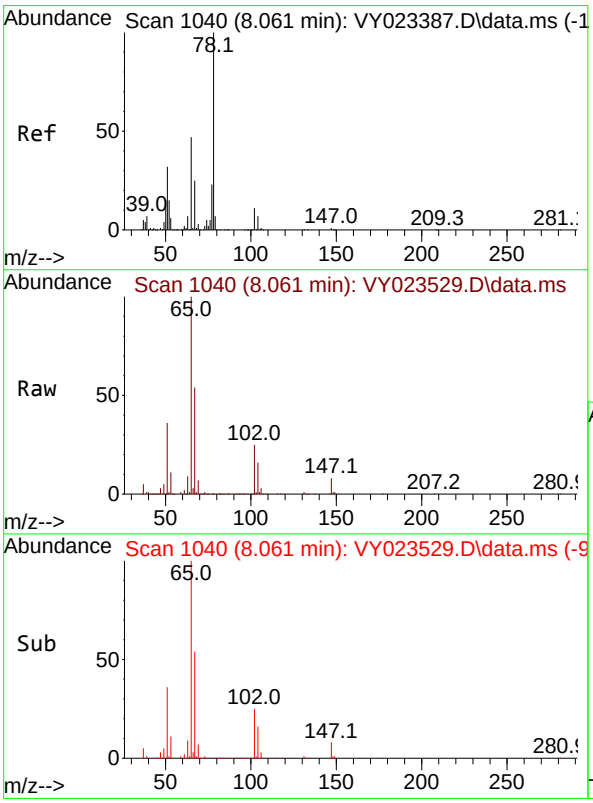
#25
2-Butanone
Concen: 11.867 ug/l
RT: 6.902 min Scan# 8
Delta R.T. 0.012 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

Tgt Ion: 43 Resp: 21069

Ion	Ratio	Lower	Upper
43	100		
72	28.5	27.4	41.2

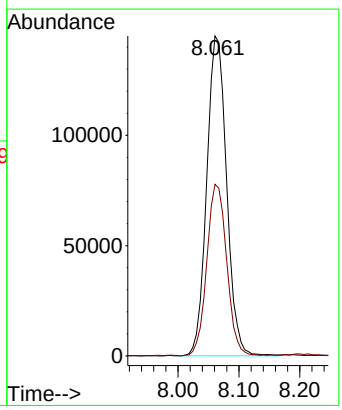


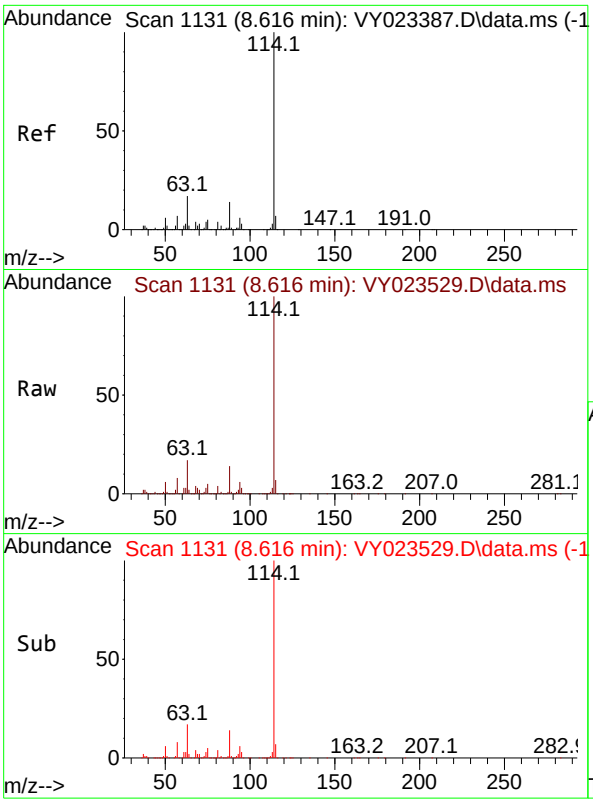


#33
1,2-Dichloroethane-d4
Concen: 53.802 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Tgt Ion: 65 Resp: 328658

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	105.8



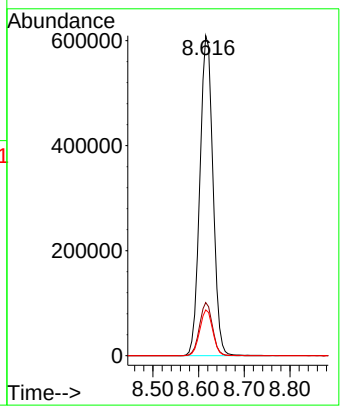


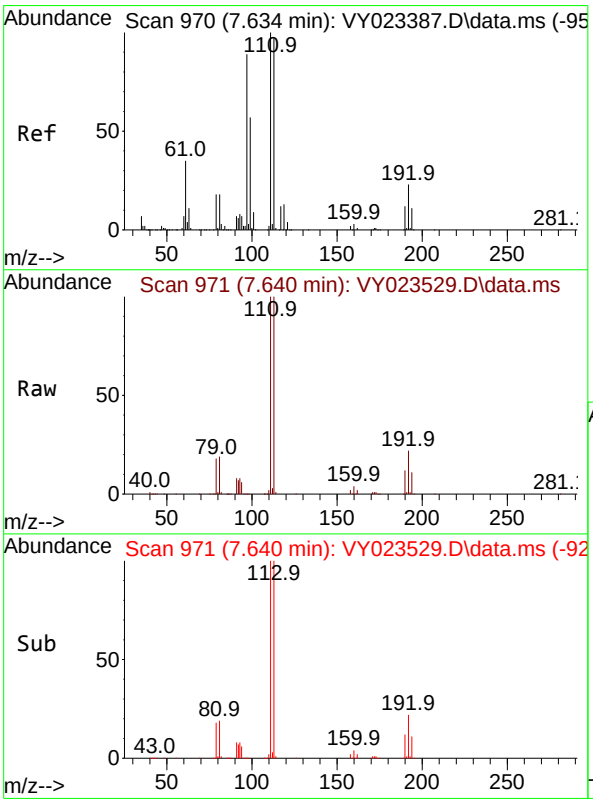
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

Tgt Ion:114 Resp: 1210975

Ion	Ratio	Lower	Upper
114	100		
63	16.6	0.0	34.2
88	14.3	0.0	28.4

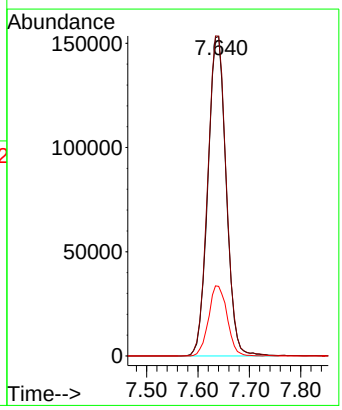


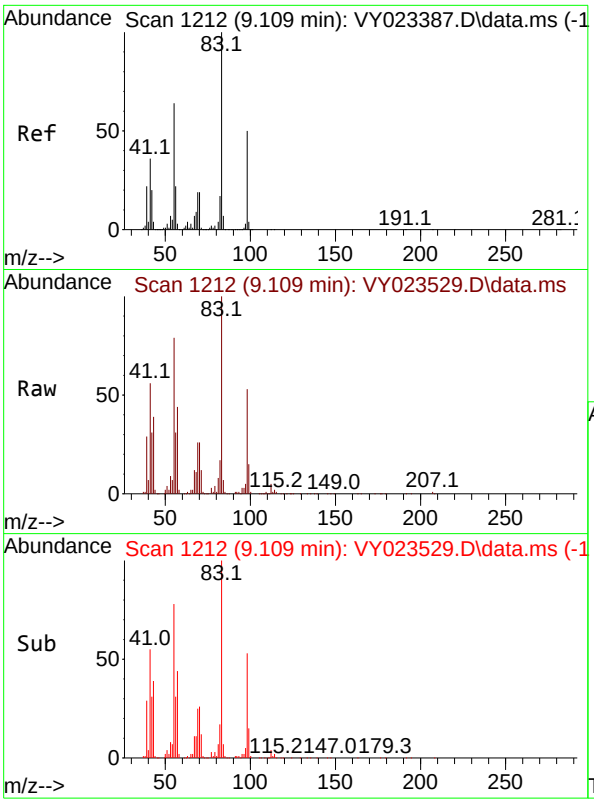


#35
Dibromofluoromethane
Concen: 50.759 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Tgt Ion:113 Resp: 377689

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.8	122.6
192	22.4	18.0	27.0



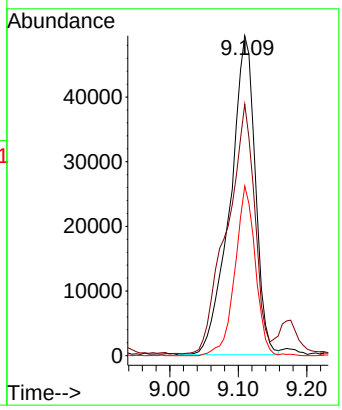


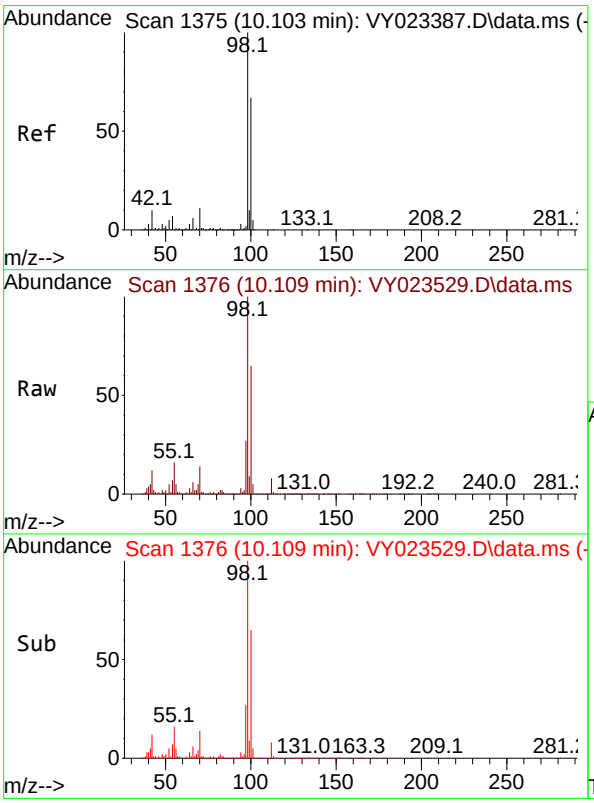
#39
Methylcyclohexane
Concen: 9.813 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

Tgt Ion: 83 Resp: 125865

Ion	Ratio	Lower	Upper
83	100		
55	78.2	51.4	77.2#
98	53.2	40.4	60.6

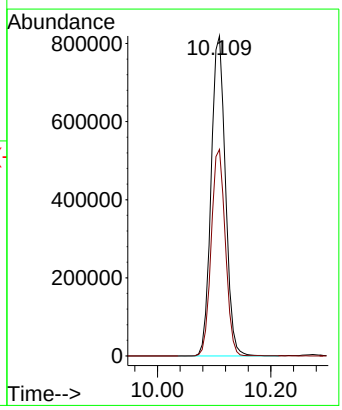


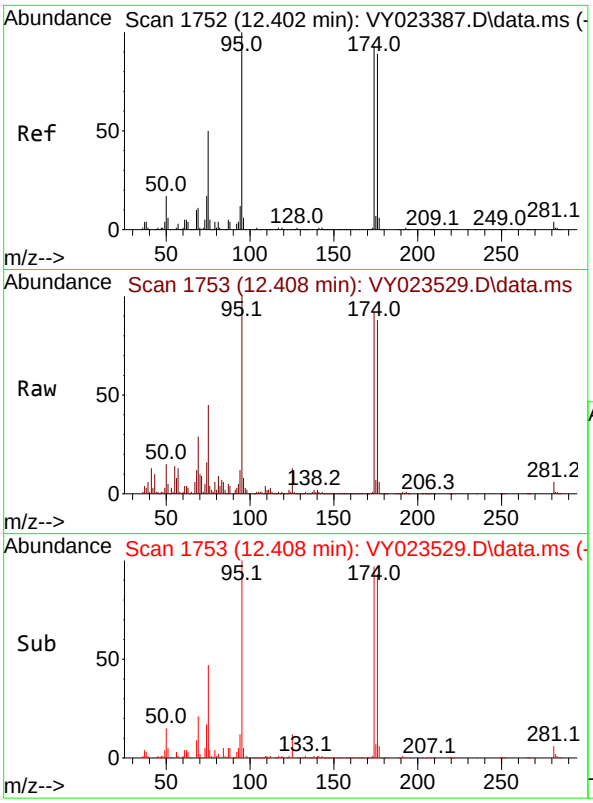


#50
Toluene-d8
Concen: 51.600 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Tgt Ion: 98 Resp: 1429858

Ion	Ratio	Lower	Upper
98	100		
100	63.9	53.0	79.4



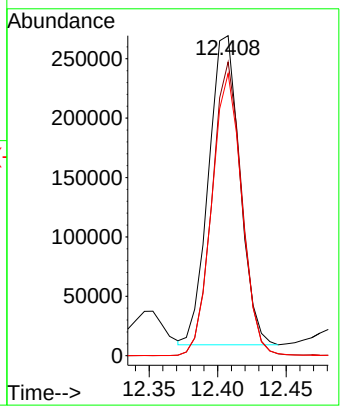


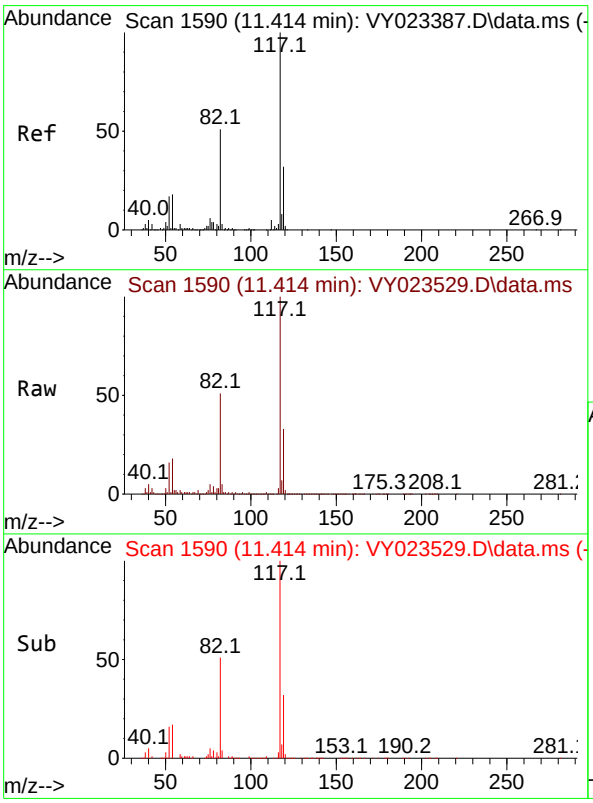
#62
4-Bromofluorobenzene
Concen: 45.155 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

Tgt Ion: 95 Resp: 413105

Ion	Ratio	Lower	Upper
95	100		
174	90.6	0.0	192.8
176	87.9	0.0	187.6

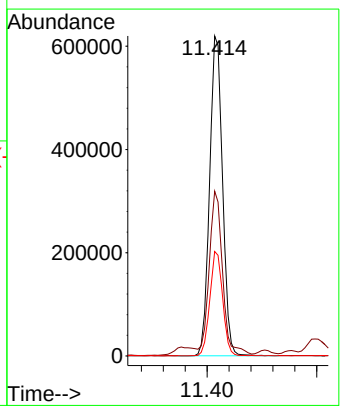


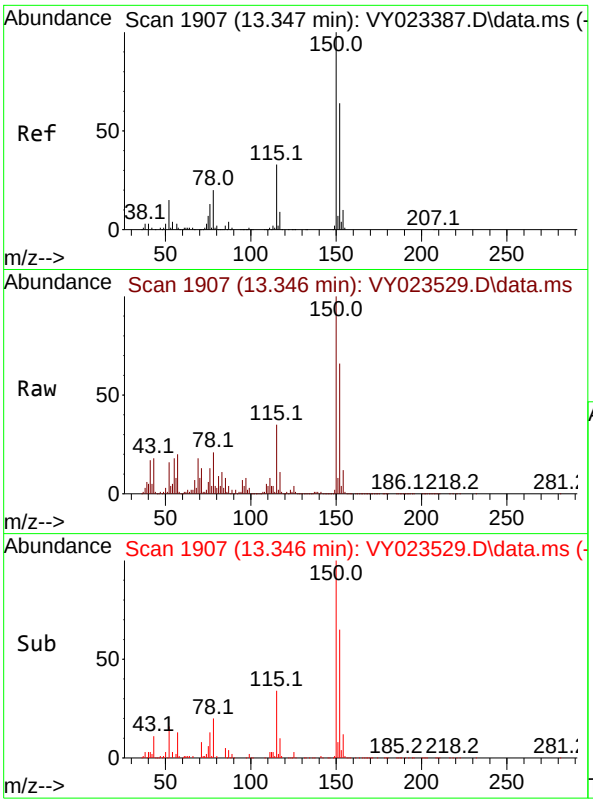


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Tgt Ion:117 Resp: 1010042

Ion	Ratio	Lower	Upper
117	100		
82	50.8	41.0	61.4
119	32.6	25.6	38.4



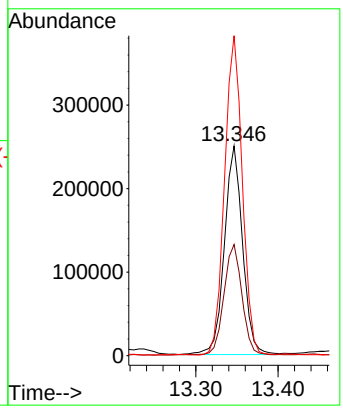


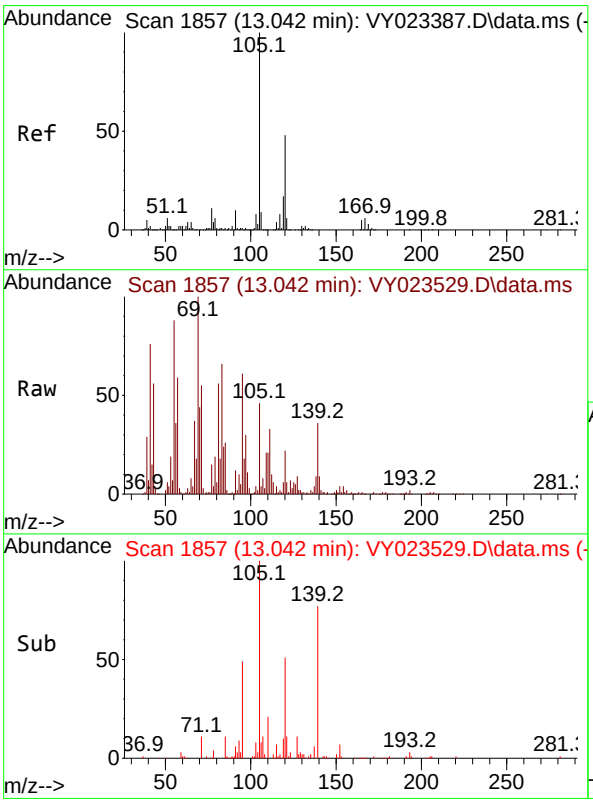
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

Tgt Ion:152 Resp: 384650

Ion	Ratio	Lower	Upper
152	100		
115	52.6	27.1	81.2
150	149.1	0.0	347.4

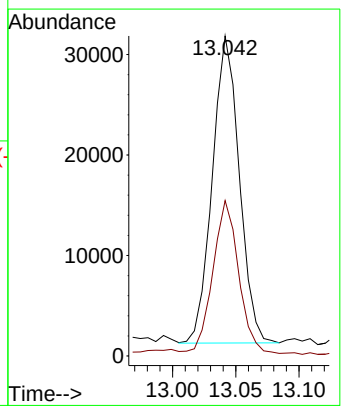




#84
1,2,4-Trimethylbenzene
Concen: 2.211 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023529.D
Acq: 21 Oct 2025 12:38

Tgt Ion:105 Resp: 45201

Ion	Ratio	Lower	Upper
105	100		
120	48.8	23.8	71.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023529.D
Acq On : 21 Oct 2025 12:38
Operator : SY/MD
Sample : Q3393-03
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

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: VY023529.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.482	118	125	139	rBV	15245	58534	1.08%	0.050%
2	3.873	342	353	362	rBV	35198	98522	1.81%	0.085%
3	4.610	464	474	494	rBV5	16376	65387	1.20%	0.056%
4	6.890	838	848	861	rBV3	42844	136671	2.51%	0.117%
5	7.640	959	971	976	rBV	508858	1250981	23.02%	1.075%
6	7.713	976	983	991	rVV	877665	2019761	37.16%	1.736%
7	7.793	991	996	1007	rVB2	48860	127073	2.34%	0.109%
8	8.061	1030	1040	1053	rVB2	432508	1036479	19.07%	0.891%
9	8.201	1054	1063	1069	rVV5	44252	113683	2.09%	0.098%
10	8.274	1069	1075	1080	rVV3	29840	69047	1.27%	0.059%
11	8.341	1080	1086	1096	rVB2	59571	140018	2.58%	0.120%
12	8.616	1122	1131	1142	rBV	1303817	2592250	47.69%	2.228%
13	9.109	1199	1212	1218	rBV3	325275	942254	17.34%	0.810%
14	9.170	1218	1222	1230	rVB	137319	258230	4.75%	0.222%
15	9.298	1237	1243	1248	rVB2	29913	54680	1.01%	0.047%
16	9.390	1248	1258	1266	rVB	233180	508337	9.35%	0.437%
17	9.536	1275	1282	1291	rVB2	278900	530644	9.76%	0.456%
18	9.689	1301	1307	1311	rBV	126084	232417	4.28%	0.200%
19	9.731	1311	1314	1321	rVB2	83447	142618	2.62%	0.123%
20	9.865	1329	1336	1341	rBV2	157379	307417	5.66%	0.264%
21	9.920	1341	1345	1351	rVB	125439	209303	3.85%	0.180%
22	9.999	1351	1358	1368	rBV4	91230	280254	5.16%	0.241%
23	10.103	1368	1375	1390	rBV	2741997	5435480	100.00%	4.672%
24	10.231	1390	1396	1399	rBV	138274	249697	4.59%	0.215%
25	10.292	1399	1406	1414	rVB4	311567	909897	16.74%	0.782%
26	10.408	1414	1425	1428	rBV	250728	496283	9.13%	0.427%
27	10.451	1428	1432	1437	rVB	388184	637789	11.73%	0.548%
28	10.548	1437	1448	1452	rBV4	261019	686273	12.63%	0.590%
29	10.591	1452	1455	1459	rVB	110056	152378	2.80%	0.131%
30	10.640	1459	1463	1468	rVB	262545	391527	7.20%	0.337%
31	10.688	1468	1471	1473	rBV2	46352	67678	1.25%	0.058%
32	10.731	1473	1478	1483	rVB	570826	880680	16.20%	0.757%
33	10.835	1483	1495	1501	rBV	422680	1124741	20.69%	0.967%
34	10.896	1501	1505	1509	rBV4	216000	322779	5.94%	0.277%
35	10.963	1512	1516	1520	rVV	531630	803229	14.78%	0.690%
36	11.018	1520	1525	1531	rVB	1842407	3092025	56.89%	2.658%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023529.D
Acq On : 21 Oct 2025 12:38
Operator : SY/MD
Sample : Q3393-03
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

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

37	11.072	1531	1534	1538	rVB2	197464	246563	4.54%	0.212%
38	11.133	1538	1544	1548	rBV3	713786	1341720	24.68%	1.153%
39	11.176	1548	1551	1554	rBV2	161667	187894	3.46%	0.162%
40	11.225	1554	1559	1567	rVB	727416	1396455	25.69%	1.200%
41	11.304	1567	1572	1576	rBV2	300564	525011	9.66%	0.451%
42	11.347	1576	1579	1585	rVB5	87835	128167	2.36%	0.110%
43	11.414	1585	1590	1595	rBV	1735355	2780922	51.16%	2.390%
44	11.554	1608	1613	1616	rBV	396543	616254	11.34%	0.530%
45	11.603	1616	1621	1626	rVV4	707243	1551904	28.55%	1.334%
46	11.664	1626	1631	1635	rVV	1076597	2032157	37.39%	1.747%
47	11.706	1635	1638	1643	rVB2	822216	1300771	23.93%	1.118%
48	11.767	1643	1648	1652	rBV2	320547	580392	10.68%	0.499%
49	11.816	1652	1656	1659	rBV3	101662	159832	2.94%	0.137%
50	11.859	1659	1663	1667	rVB3	261691	398793	7.34%	0.343%
51	11.932	1667	1675	1681	rBV4	1181161	2889651	53.16%	2.484%
52	11.987	1681	1684	1686	rBV2	122954	114090	2.10%	0.098%
53	12.017	1686	1689	1690	rBV	191043	207615	3.82%	0.178%
54	12.048	1690	1694	1698	rVB	1532072	2020112	37.17%	1.736%
55	12.091	1698	1701	1702	rBV2	107348	117160	2.16%	0.101%
56	12.127	1702	1707	1709	rBV2	950639	1449500	26.67%	1.246%
57	12.164	1709	1713	1719	rVB2	1518381	2885953	53.09%	2.481%
58	12.298	1730	1735	1739	rBV6	537720	1180722	21.72%	1.015%
59	12.340	1739	1742	1748	rVB2	1010056	1625673	29.91%	1.397%
60	12.408	1748	1753	1757	rBV	1524315	2383782	43.86%	2.049%
61	12.450	1757	1760	1763	rBV2	194226	214063	3.94%	0.184%
62	12.493	1764	1767	1771	rBV4	198378	298356	5.49%	0.256%
63	12.566	1775	1779	1786	rVB2	1524054	2648321	48.72%	2.276%
64	12.651	1786	1793	1798	rBV5	648211	1665021	30.63%	1.431%
65	12.731	1798	1806	1811	rBV4	1559509	4163260	76.59%	3.578%
66	12.779	1812	1814	1819	rVB2	864670	1249486	22.99%	1.074%
67	12.840	1820	1824	1825	rBV2	263564	366553	6.74%	0.315%
68	12.871	1825	1829	1833	rVB4	600312	852625	15.69%	0.733%
69	12.926	1833	1838	1840	rBV3	461994	788320	14.50%	0.678%
70	12.962	1840	1844	1851	rVB	2504398	3692767	67.94%	3.174%
71	13.090	1862	1865	1870	rBV4	449258	718361	13.22%	0.617%
72	13.145	1870	1874	1877	rBV	642636	977556	17.98%	0.840%
73	13.243	1882	1890	1893	rBV3	1419815	3003480	55.26%	2.582%
74	13.285	1893	1897	1900	rVV4	645340	1030540	18.96%	0.886%
75	13.346	1900	1907	1916	rVB2	1540418	3196598	58.81%	2.748%
76	13.426	1916	1920	1924	rVB4	340291	423938	7.80%	0.364%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023529.D
Acq On : 21 Oct 2025 12:38
Operator : SY/MD
Sample : Q3393-03
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

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

77	13.487	1926	1930	1934	rVB3	692863	981802	18.06%	0.844%
78	13.535	1934	1938	1944	rVB3	455528	1055321	19.42%	0.907%
79	13.615	1945	1951	1952	rBV6	270323	509177	9.37%	0.438%
80	13.663	1954	1959	1964	rBV4	1568463	3035558	55.85%	2.609%
81	13.712	1964	1967	1972	rVB2	620225	880098	16.19%	0.756%
82	13.834	1984	1987	1993	rBV5	577419	897910	16.52%	0.772%
83	13.938	2000	2004	2009	rVB	894720	1296359	23.85%	1.114%
84	13.993	2009	2013	2018	rBV6	517733	862637	15.87%	0.741%
85	14.066	2020	2025	2030	rVB4	704724	1259746	23.18%	1.083%
86	14.115	2030	2033	2036	rBV4	315946	463837	8.53%	0.399%
87	14.176	2036	2043	2049	rVV7	1883482	5193279	95.54%	4.464%
88	14.230	2050	2052	2058	rVB5	480120	636475	11.71%	0.547%
89	14.297	2060	2063	2066	rVV4	528859	737835	13.57%	0.634%
90	14.340	2066	2070	2074	rVB3	1197354	1721434	31.67%	1.480%
91	14.535	2099	2102	2105	rBV4	442657	623869	11.48%	0.536%
92	14.596	2108	2112	2116	rVV3	1077126	1985671	36.53%	1.707%
93	14.645	2116	2120	2127	rVB	2940886	4487478	82.56%	3.857%
94	14.761	2137	2139	2142	rBV2	390529	455574	8.38%	0.392%
95	14.858	2152	2155	2159	rVB4	716107	962257	17.70%	0.827%
96	15.120	2193	2198	2203	rBV2	1860002	2884308	53.06%	2.479%
97	15.346	2231	2235	2242	rBV7	468970	1038243	19.10%	0.892%
98	15.505	2256	2261	2267	rVB4	1331094	2467585	45.40%	2.121%
99	16.047	2345	2350	2356	rVB2	836908	1427272	26.26%	1.227%
100	16.358	2397	2401	2407	rVB3	362162	642365	11.82%	0.552%

Sum of corrected areas: 116341444

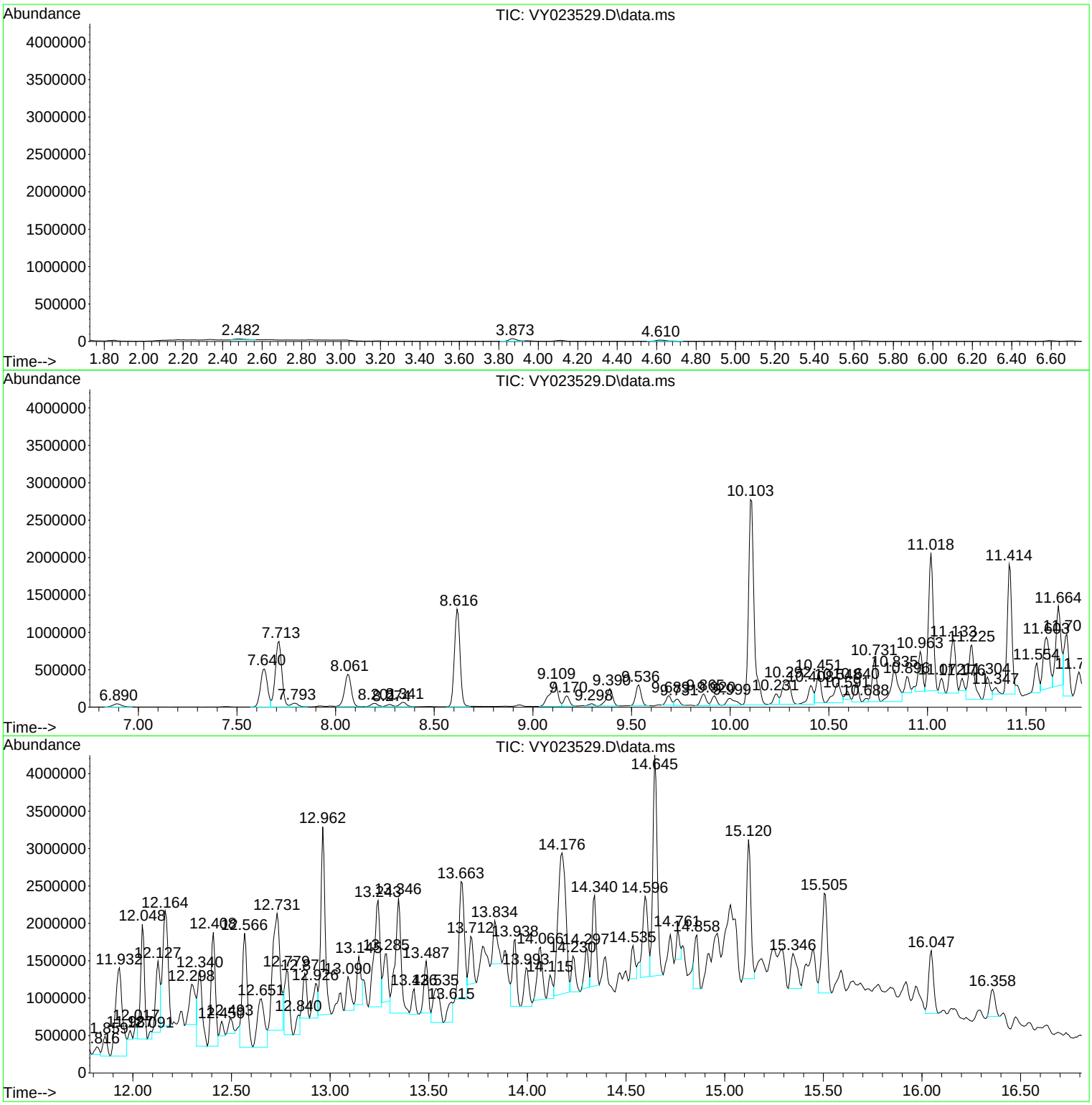
Sample Results: **VY023529.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023529.D
Acq On : 21 Oct 2025 12:38
Operator : SY/MD
Sample : Q3393-03
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

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\VY102125\
Data File : VY023529.D
Acq On    : 21 Oct 2025  12:38
Operator  : SY/MD
Sample    : Q3393-03
Misc      : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial  : 10   Sample Multiplier: 1

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
```

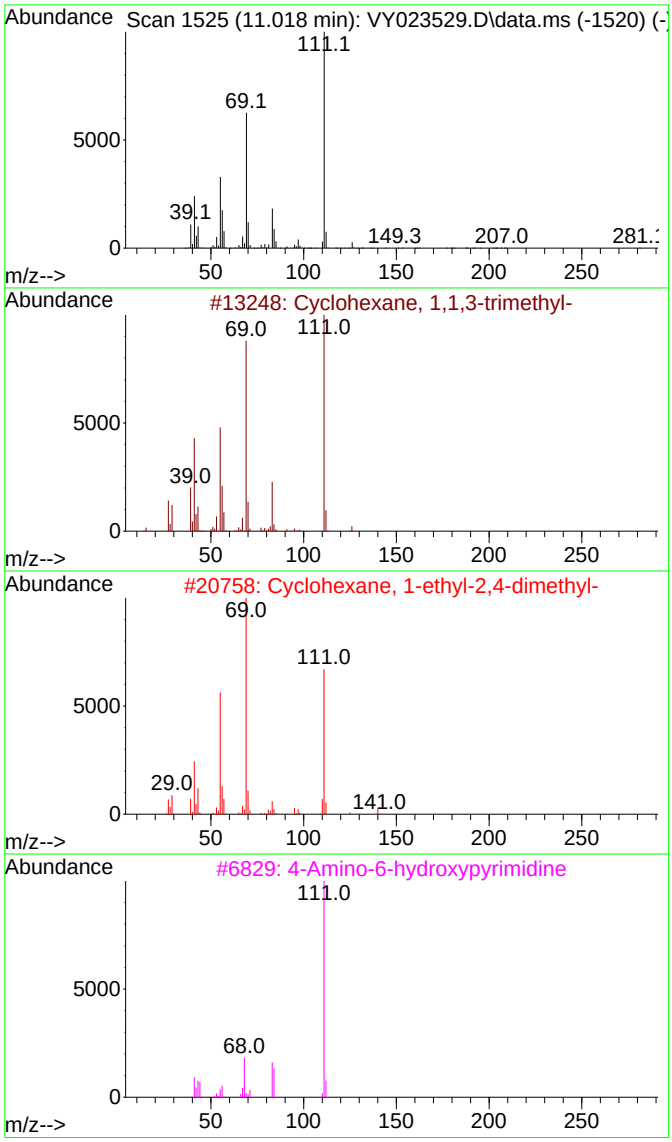
Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

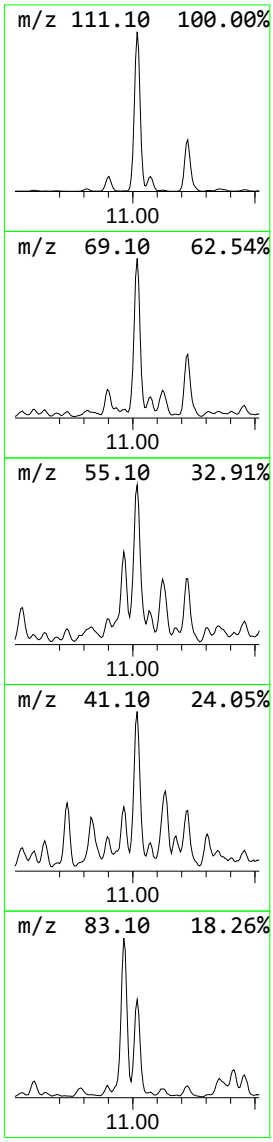
****

Peak Number 1 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.018	55.59 ug/l	3092030	Chlorobenzene-d5	11.414

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, 1,1,3-trimethyl-	126	C9H18	003073-66-3	94
2	Cyclohexane, 1-ethyl-2,4-dimethyl-	140	C10H20	061142-69-6	72
3	4-Amino-6-hydroxypyrimidine	111	C4H5N3O	001193-22-2	64
4	Cyclooctane, (1-methylpropyl)-	168	C12H24	016538-89-9	64
5	Isomaltol	126	C6H6O3	003420-59-5	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023529.D
Acq On : 21 Oct 2025 12:38
Operator : SY/MD
Sample : Q3393-03
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

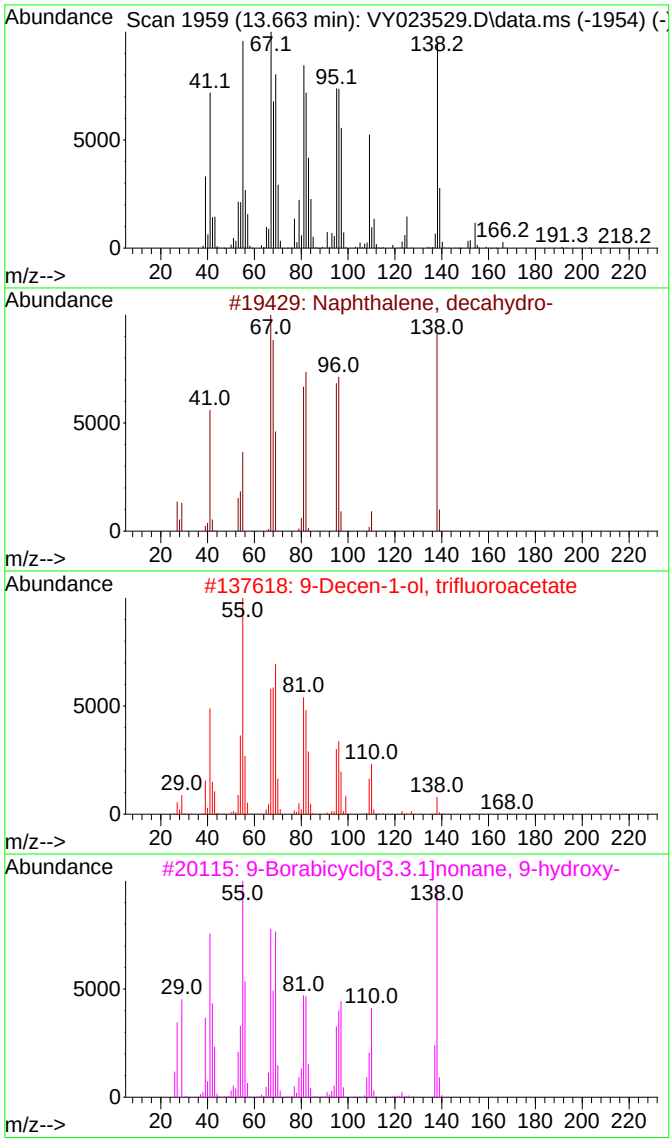
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

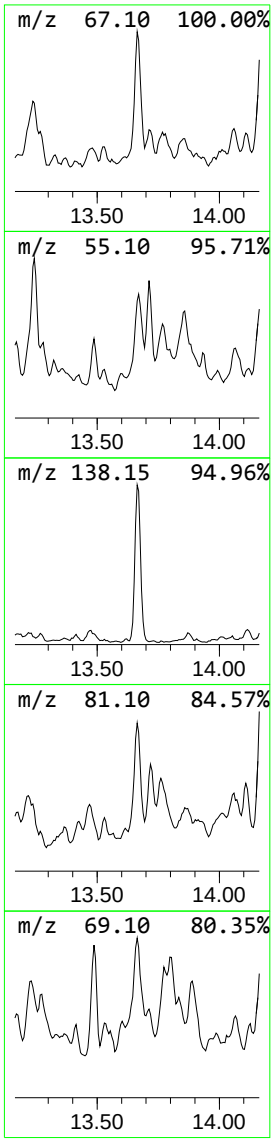
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Naphthalene, decahydro- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.663	47.48 ug/l	3035560	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-	138	C10H18	000091-17-8	86
2	9-Decen-1-ol, trifluoroacetate	252	C12H19F3O2	1000352-65-9	64
3	9-Borabicyclo[3.3.1]nonane, 9-hy...	138	C8H15BO	063366-65-4	62
4	Spiro[4.5]decane	138	C10H18	000176-63-6	58
5	Naphthalene, decahydro-, cis-	138	C10H18	000493-01-6	58





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023529.D
Acq On : 21 Oct 2025 12:38
Operator : SY/MD
Sample : Q3393-03
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

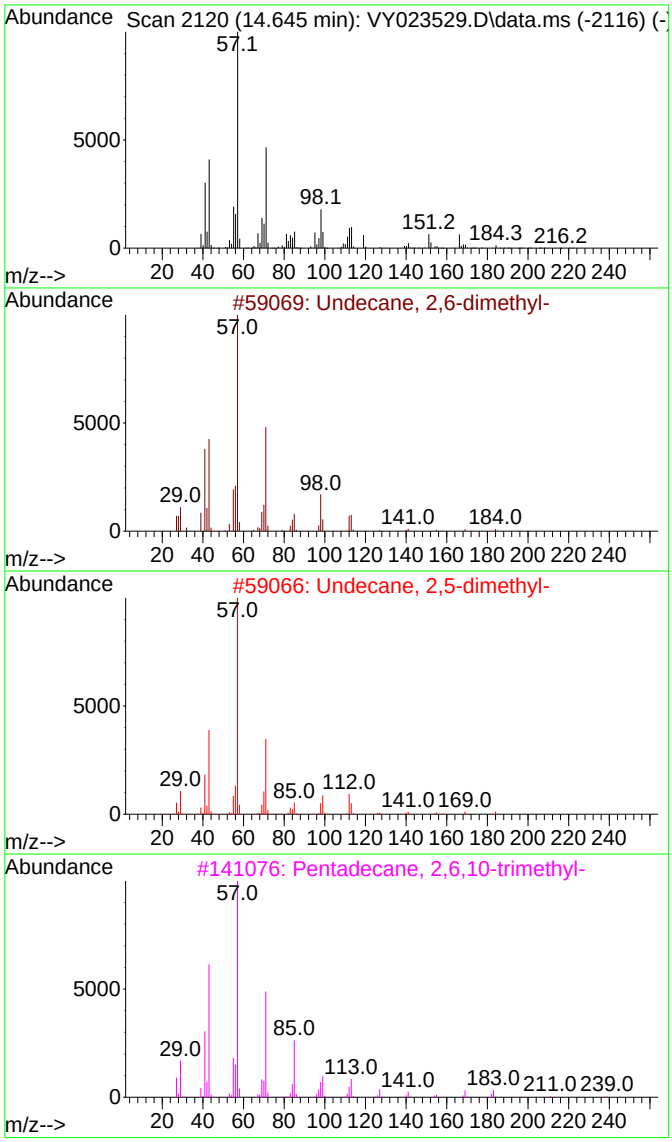
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

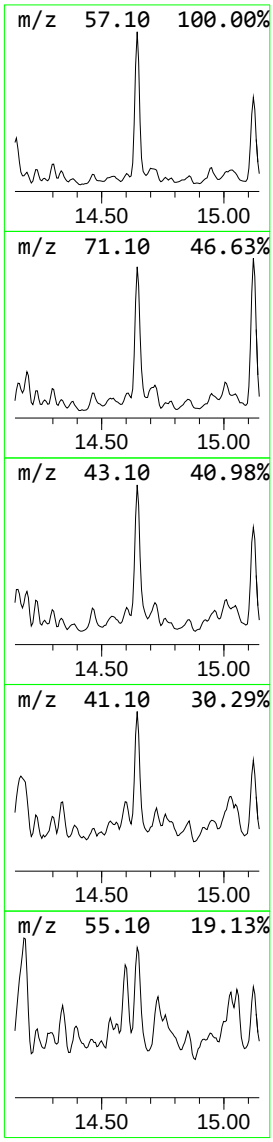
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Undecane, 2,6-dimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.645	70.19 ug/l	4487480	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	94
2	Undecane, 2,5-dimethyl-	184	C13H28	017301-22-3	55
3	Pentadecane, 2,6,10-trimethyl-	254	C18H38	003892-00-0	53
4	Sulfurous acid, di(2-ethylhexyl)...	306	C16H34O3S	1000309-19-1	50
5	Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	50





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023529.D
Acq On : 21 Oct 2025 12:38
Operator : SY/MD
Sample : Q3393-03
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

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

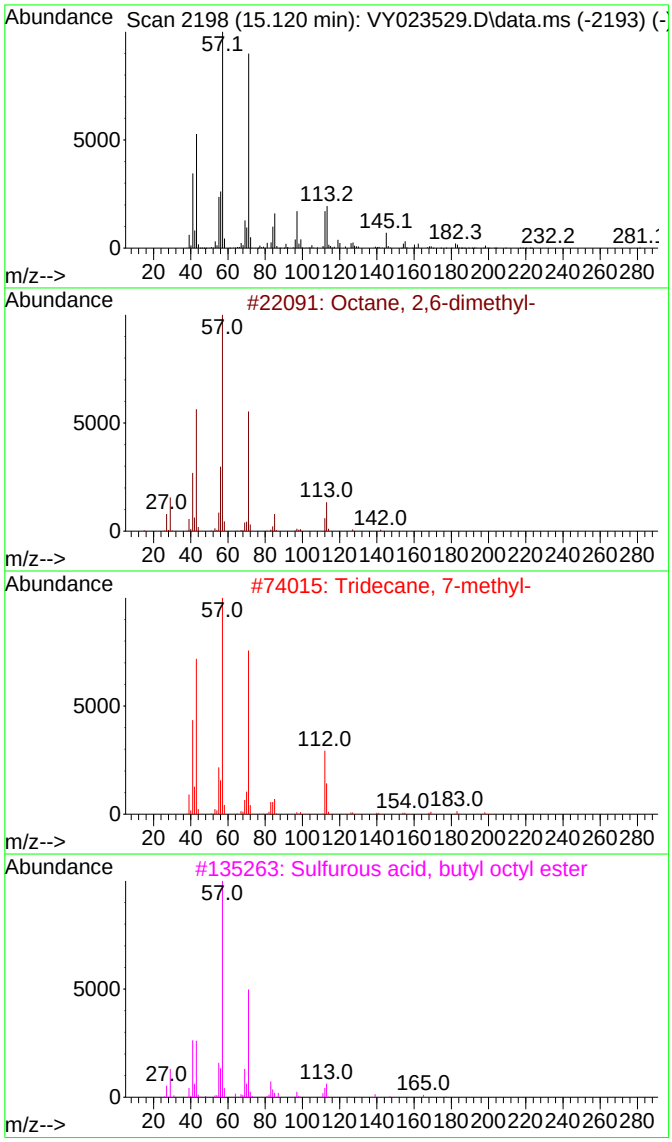
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

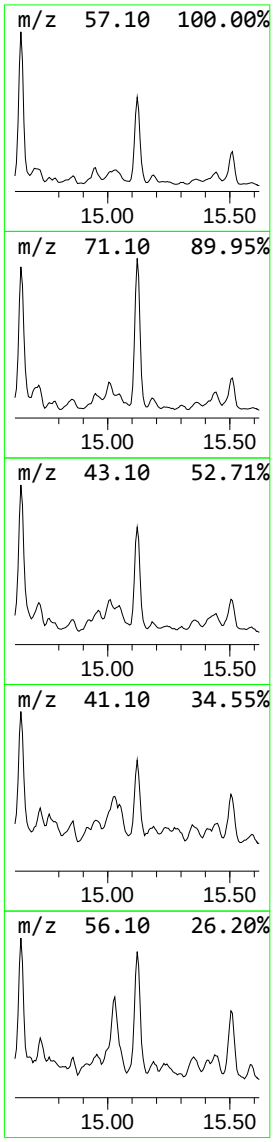
****

Peak Number 10 Octane, 2,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.121	45.12 ug/l	2884310	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	90
2	Tridecane, 7-methyl-	198	C14H30	026730-14-3	76
3	Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	72
4	Sulfurous acid, 2-ethylhexyl tri...	376	C21H44O3S	1000309-19-6	72
5	Sulfurous acid, 2-ethylhexyl tet...	390	C22H46O3S	1000309-19-7	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023529.D
Acq On : 21 Oct 2025 12:38
Operator : SY/MD
Sample : Q3393-03
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-013038-20251017

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
Cyclohexane, 1,...	11.018	55.6	ug/l	3092030	3	11.414	2780920	50.0
Naphthalene, de...	13.663	47.5	ug/l	3035560	4	13.346	3196600	50.0
Undecane, 2,6-d...	14.645	70.2	ug/l	4487480	4	13.346	3196600	50.0
Octane, 2,6-dim...	15.121	45.1	ug/l	2884310	4	13.346	3196600	50.0

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

Report of Analysis

Client:	AECOM	Date Collected:	10/17/25
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	10/17/25
Client Sample ID:	PR132-S06-000021-202510	SDG No.:	Q3393
Lab Sample ID:	Q3393-04	Matrix:	SOIL
Analytical Method:	8260D	Level : LOW	% Solid: 56.2
Sample Wt/Vol:	4.61 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	9.60	U	1	2.20	9.60	ug/Kg	10/20/25 18:09	VY102025
74-87-3	Chloromethane	9.60	U	1	2.20	9.60	ug/Kg	10/20/25 18:09	VY102025
75-01-4	Vinyl Chloride	9.60	U	1	1.50	9.60	ug/Kg	10/20/25 18:09	VY102025
74-83-9	Bromomethane	9.60	U	1	2.10	9.60	ug/Kg	10/20/25 18:09	VY102025
75-00-3	Chloroethane	9.60	U	1	2.40	9.60	ug/Kg	10/20/25 18:09	VY102025
75-69-4	Trichlorofluoromethane	9.60	U	1	2.30	9.60	ug/Kg	10/20/25 18:09	VY102025
76-13-1	1,1,2-Trichlorotrifluoroethane	9.60	U	1	2.00	9.60	ug/Kg	10/20/25 18:09	VY102025
75-35-4	1,1-Dichloroethene	9.60	U	1	1.90	9.60	ug/Kg	10/20/25 18:09	VY102025
67-64-1	Acetone	64.4		1	9.10	48.2	ug/Kg	10/20/25 18:09	VY102025
75-15-0	Carbon Disulfide	14.7		1	2.00	9.60	ug/Kg	10/20/25 18:09	VY102025
1634-04-4	Methyl tert-butyl Ether	9.60	U	1	1.40	9.60	ug/Kg	10/20/25 18:09	VY102025
79-20-9	Methyl Acetate	9.60	U	1	3.00	9.60	ug/Kg	10/20/25 18:09	VY102025
75-09-2	Methylene Chloride	19.3	U	1	6.80	19.3	ug/Kg	10/20/25 18:09	VY102025
156-60-5	trans-1,2-Dichloroethene	9.60	U	1	1.70	9.60	ug/Kg	10/20/25 18:09	VY102025
75-34-3	1,1-Dichloroethane	9.60	U	1	1.50	9.60	ug/Kg	10/20/25 18:09	VY102025
110-82-7	Cyclohexane	9.60	U	1	1.50	9.60	ug/Kg	10/20/25 18:09	VY102025
78-93-3	2-Butanone	18.9	J	1	12.6	48.2	ug/Kg	10/20/25 18:09	VY102025
56-23-5	Carbon Tetrachloride	9.60	U	1	1.90	9.60	ug/Kg	10/20/25 18:09	VY102025
156-59-2	cis-1,2-Dichloroethene	9.60	U	1	1.40	9.60	ug/Kg	10/20/25 18:09	VY102025
74-97-5	Bromochloromethane	9.60	U	1	2.20	9.60	ug/Kg	10/20/25 18:09	VY102025
67-66-3	Chloroform	9.60	U	1	1.60	9.60	ug/Kg	10/20/25 18:09	VY102025
71-55-6	1,1,1-Trichloroethane	9.60	U	1	1.80	9.60	ug/Kg	10/20/25 18:09	VY102025
108-87-2	Methylcyclohexane	9.60	U	1	1.80	9.60	ug/Kg	10/20/25 18:09	VY102025
71-43-2	Benzene	9.60	U	1	1.50	9.60	ug/Kg	10/20/25 18:09	VY102025
107-06-2	1,2-Dichloroethane	9.60	U	1	1.50	9.60	ug/Kg	10/20/25 18:09	VY102025
79-01-6	Trichloroethene	9.60	U	1	1.60	9.60	ug/Kg	10/20/25 18:09	VY102025
78-87-5	1,2-Dichloropropane	9.60	U	1	1.80	9.60	ug/Kg	10/20/25 18:09	VY102025
75-27-4	Bromodichloromethane	9.60	U	1	1.50	9.60	ug/Kg	10/20/25 18:09	VY102025
108-10-1	4-Methyl-2-Pentanone	48.2	U	1	6.90	48.2	ug/Kg	10/20/25 18:09	VY102025
108-88-3	Toluene	9.60	U	1	1.50	9.60	ug/Kg	10/20/25 18:09	VY102025
10061-02-6	t-1,3-Dichloropropene	9.60	U	1	1.30	9.60	ug/Kg	10/20/25 18:09	VY102025
10061-01-5	cis-1,3-Dichloropropene	9.60	U	1	1.20	9.60	ug/Kg	10/20/25 18:09	VY102025
79-00-5	1,1,2-Trichloroethane	9.60	U	1	1.80	9.60	ug/Kg	10/20/25 18:09	VY102025
591-78-6	2-Hexanone	48.2	U	1	7.10	48.2	ug/Kg	10/20/25 18:09	VY102025
124-48-1	Dibromochloromethane	9.60	U	1	1.70	9.60	ug/Kg	10/20/25 18:09	VY102025
106-93-4	1,2-Dibromoethane	9.60	U	1	1.70	9.60	ug/Kg	10/20/25 18:09	VY102025
127-18-4	Tetrachloroethene	9.60	U	1	2.00	9.60	ug/Kg	10/20/25 18:09	VY102025
108-90-7	Chlorobenzene	9.60	U	1	1.80	9.60	ug/Kg	10/20/25 18:09	VY102025
100-41-4	Ethyl Benzene	9.60	U	1	1.30	9.60	ug/Kg	10/20/25 18:09	VY102025
179601-23-1	m/p-Xylenes	19.3	U	1	2.40	19.3	ug/Kg	10/20/25 18:09	VY102025
95-47-6	o-Xylene	9.60	U	1	1.60	9.60	ug/Kg	10/20/25 18:09	VY102025
100-42-5	Styrene	9.60	U	1	1.40	9.60	ug/Kg	10/20/25 18:09	VY102025
75-25-2	Bromoform	9.60	U	1	1.70	9.60	ug/Kg	10/20/25 18:09	VY102025

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

Report of Analysis

Client:	AECOM	Date Collected:	10/17/25
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	10/17/25
Client Sample ID:	PR132-S06-000021-202510	SDG No.:	Q3393
Lab Sample ID:	Q3393-04	Matrix:	SOIL
Analytical Method:	8260D Level : LOW	% Solid:	56.2
Sample Wt/Vol:	4.61 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	9.60	U	1	1.50	9.60	ug/Kg	10/20/25 18:09	VY102025
79-34-5	1,1,2,2-Tetrachloroethane	9.60	U	1	2.30	9.60	ug/Kg	10/20/25 18:09	VY102025
541-73-1	1,3-Dichlorobenzene	9.60	U	1	3.30	9.60	ug/Kg	10/20/25 18:09	VY102025
106-46-7	1,4-Dichlorobenzene	9.60	U	1	3.00	9.60	ug/Kg	10/20/25 18:09	VY102025
95-50-1	1,2-Dichlorobenzene	9.60	U	1	2.80	9.60	ug/Kg	10/20/25 18:09	VY102025
96-12-8	1,2-Dibromo-3-Chloropropane	9.60	U	1	3.60	9.60	ug/Kg	10/20/25 18:09	VY102025
120-82-1	1,2,4-Trichlorobenzene	9.60	U	1	5.70	9.60	ug/Kg	10/20/25 18:09	VY102025
87-61-6	1,2,3-Trichlorobenzene	9.60	U	1	6.10	9.60	ug/Kg	10/20/25 18:09	VY102025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.5			63 - 155	113%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.2			70 - 134	104%	SPK: 50		
2037-26-5	Toluene-d8	52.4			74 - 123	105%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.0			17 - 146	100%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	635000							
540-36-3	1,4-Difluorobenzene	1070000							
3114-55-4	Chlorobenzene-d5	943000							
3855-82-1	1,4-Dichlorobenzene-d4	398000							
TENTATIVE IDENTIFIED COMPOUNDS									
000123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	74.0	J			12.9	ug/Kg		
002958-76-1	Naphthalene, decahydro-2-methyl-	67.2	J			14.2	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_Y\Data\VY102025\
Data File : VY023516.D
Acq On : 20 Oct 2025 18:09
Operator : SY/MD
Sample : Q3393-04
Misc : 4.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

Quant Time: Oct 21 04:02:30 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

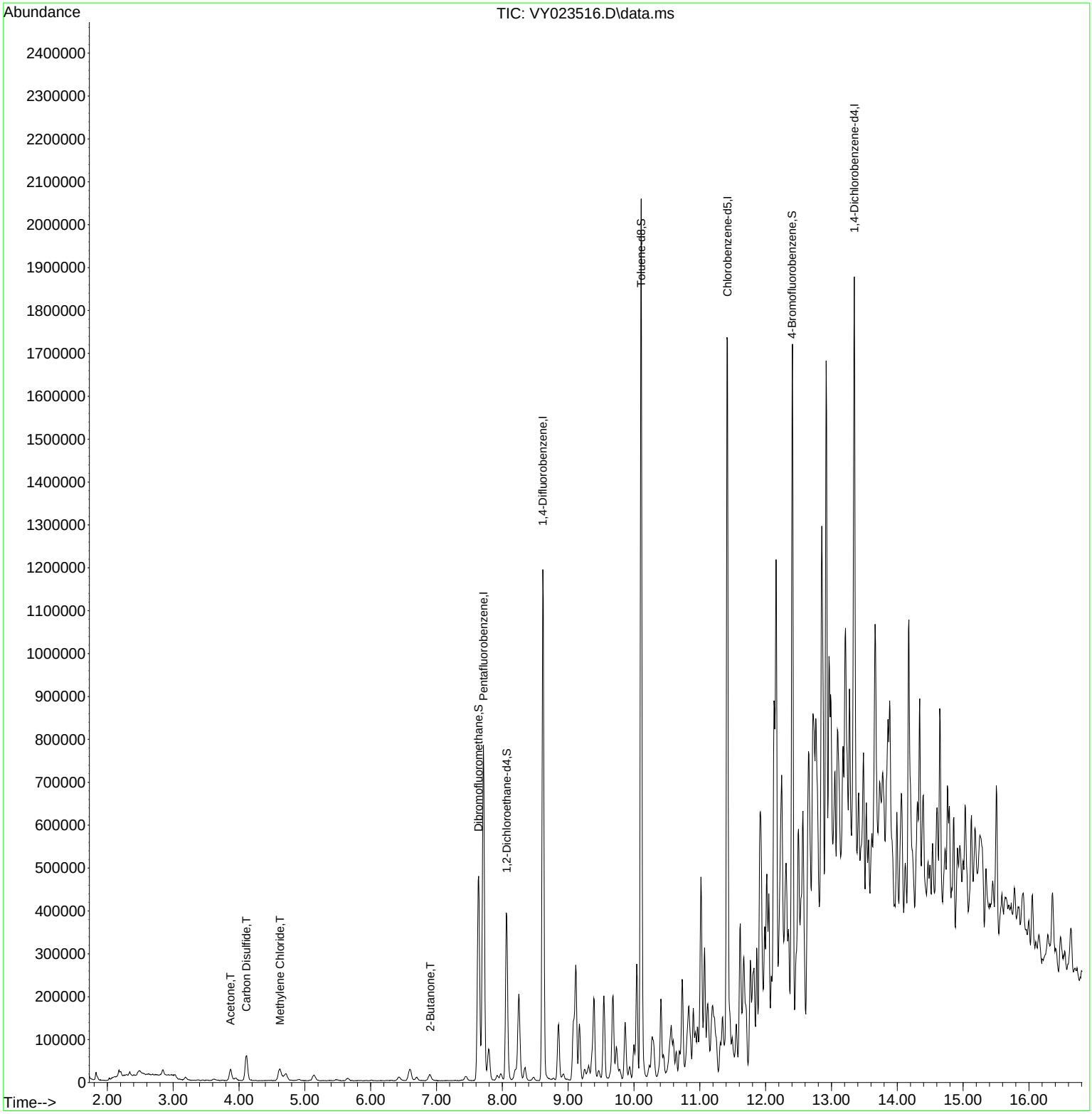
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	634815	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1071621	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	942803	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	398037	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	300083	56.530	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.060%			
35) Dibromofluoromethane	7.640	113	343909	52.229	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.460%			
50) Toluene-d8	10.109	98	1284259	52.372	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 104.740%			
62) 4-Bromofluorobenzene	12.402	95	405010	50.027	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.060%			
Target Compounds						Qvalue
16) Acetone	3.873	43	42154	33.356	ug/l	96
17) Carbon Disulfide	4.110	76	123623	7.628	ug/l	99
20) Methylene Chloride	4.622	84	18005	2.635	ug/l	94
25) 2-Butanone	6.909	43	15090	9.781	ug/l #	84

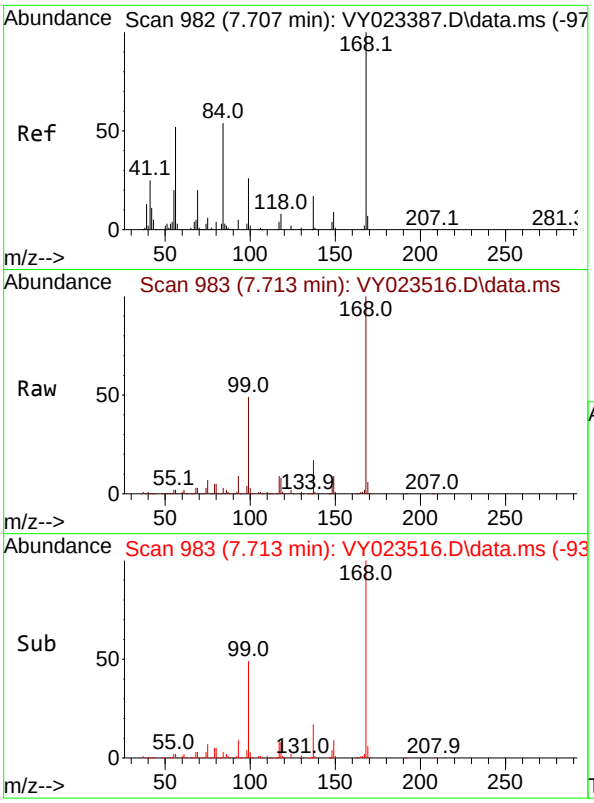
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023516.D
Acq On : 20 Oct 2025 18:09
Operator : SY/MD
Sample : Q3393-04
Misc : 4.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

Quant Time: Oct 21 04:02:30 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



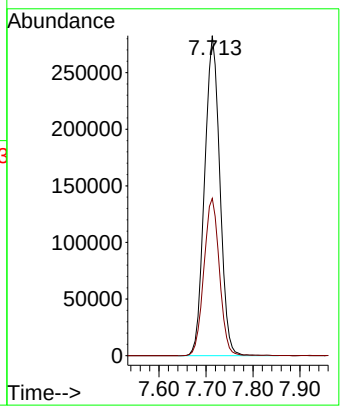


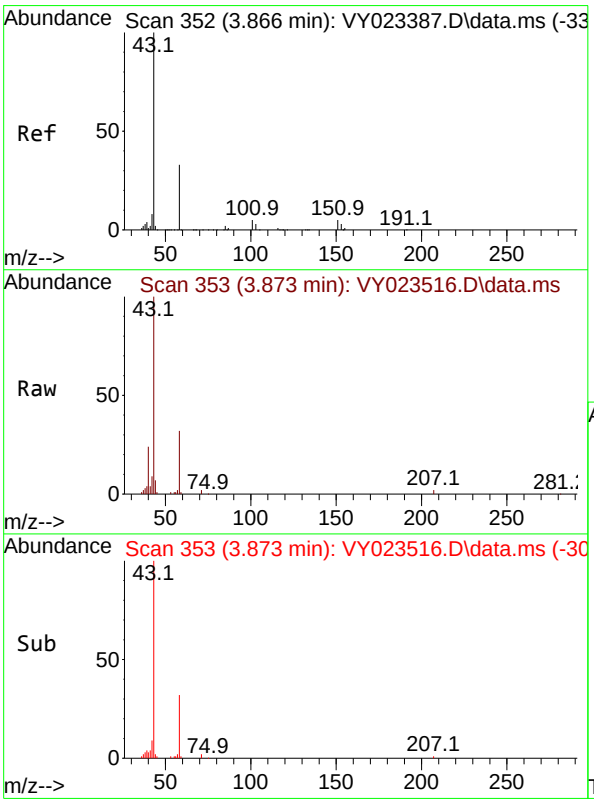
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023516.D
Acq: 20 Oct 2025 18:09

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

Tgt Ion:168 Resp: 634815

Ion	Ratio	Lower	Upper
168	100		
99	49.1	39.7	59.5

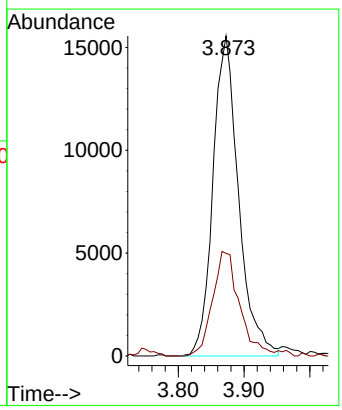


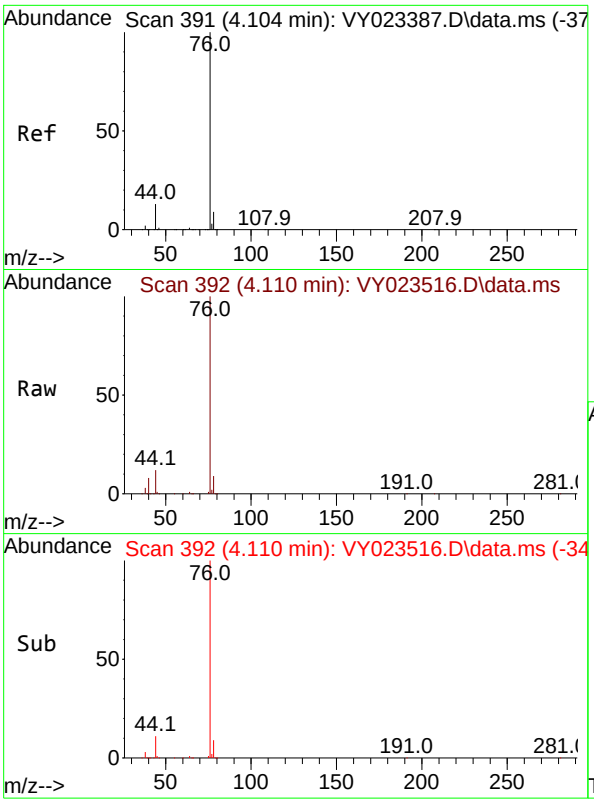


#16
Acetone
Concen: 33.356 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023516.D
Acq: 20 Oct 2025 18:09

Tgt Ion: 43 Resp: 42154

Ion	Ratio	Lower	Upper
43	100		
58	32.0	27.7	41.5



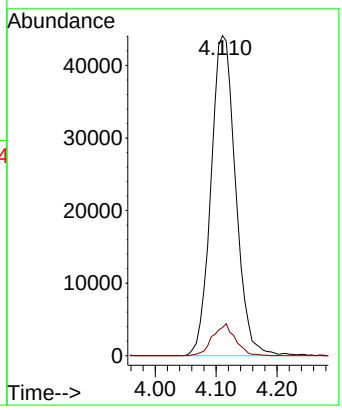


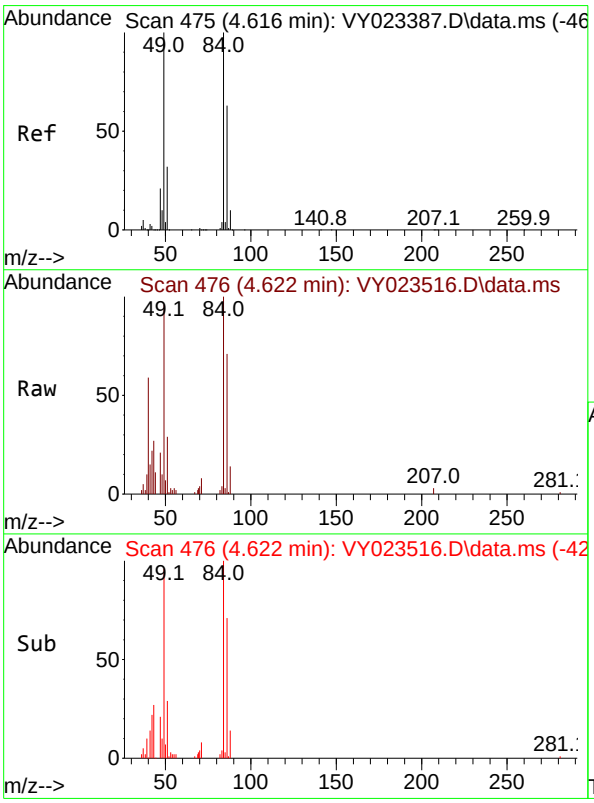
#17
Carbon Disulfide
Concen: 7.628 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023516.D
Acq: 20 Oct 2025 18:09

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

Tgt Ion: 76 Resp: 123623

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.3	10.9

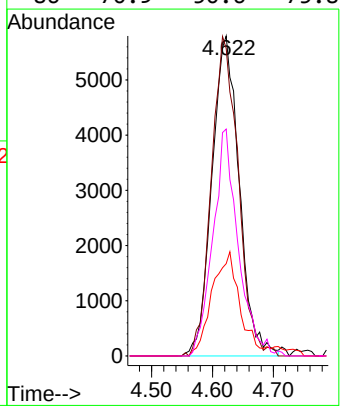


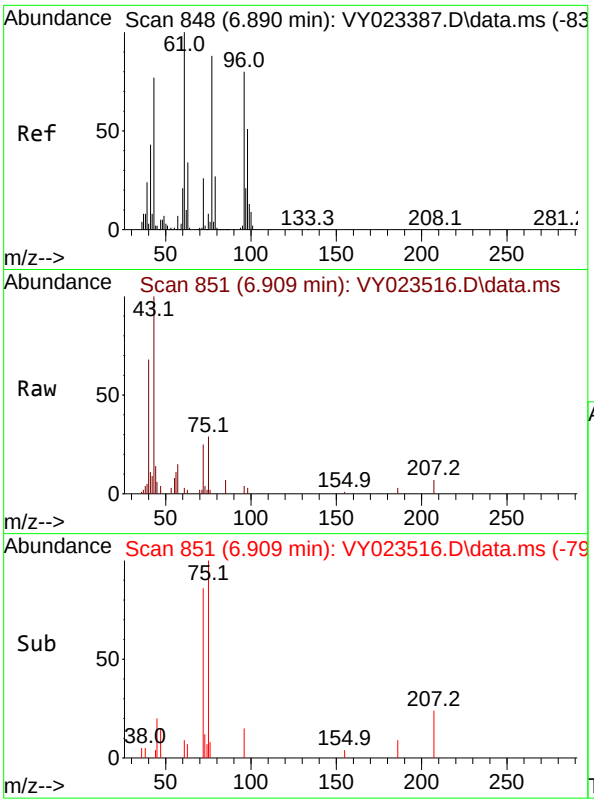


#20
Methylene Chloride
Concen: 2.635 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023516.D
Acq: 20 Oct 2025 18:09

Tgt Ion: 84 Resp: 18005

Ion	Ratio	Lower	Upper
84	100		
49	96.1	80.2	120.4
51	28.8	25.9	38.9
86	70.9	50.6	75.8



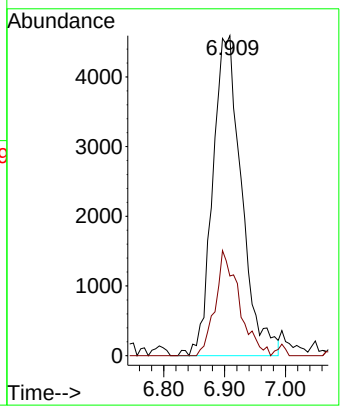


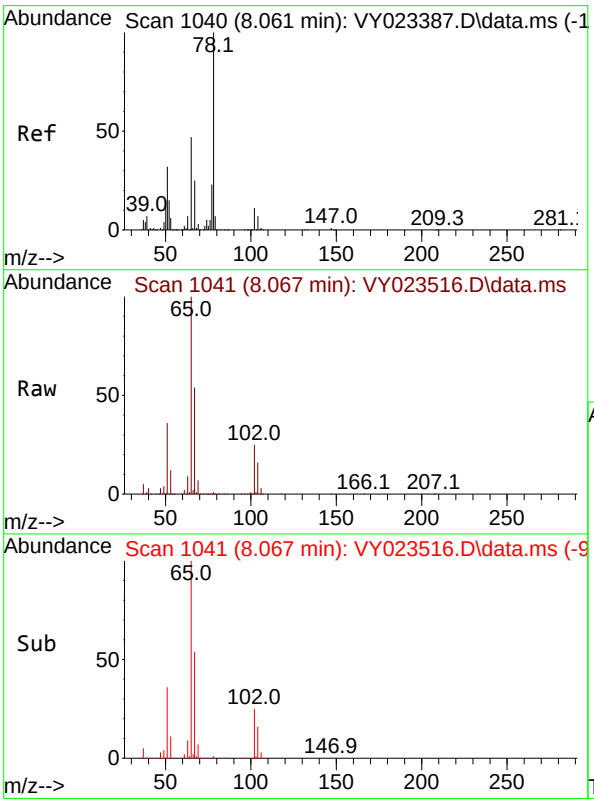
#25
2-Butanone
Concen: 9.781 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.018 min
Lab File: VY023516.D
Acq: 20 Oct 2025 18:09

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

Tgt Ion: 43 Resp: 15090

Ion	Ratio	Lower	Upper
43	100		
72	24.9	27.4	41.2#

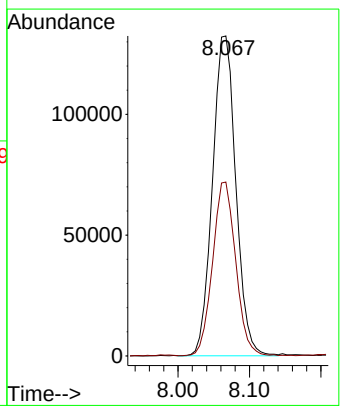


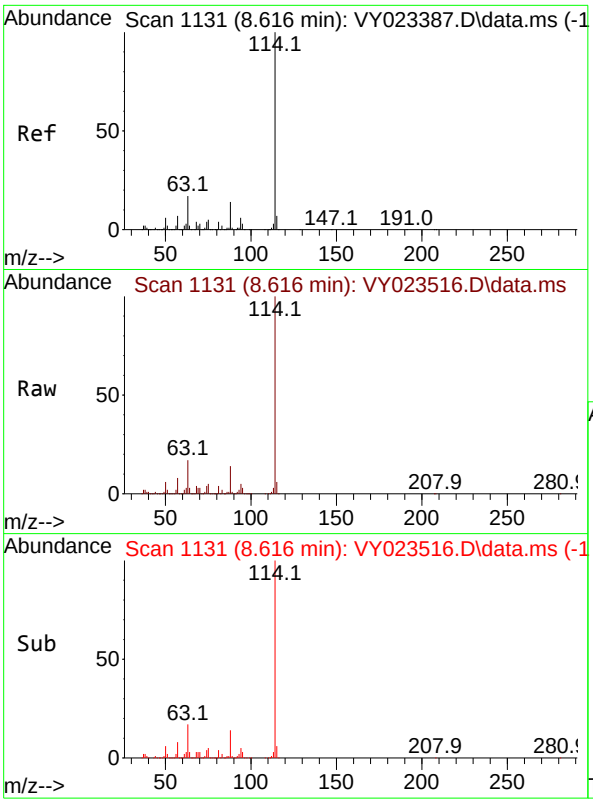


#33
1,2-Dichloroethane-d4
Concen: 56.530 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023516.D
Acq: 20 Oct 2025 18:09

Tgt Ion: 65 Resp: 300083

Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	105.8



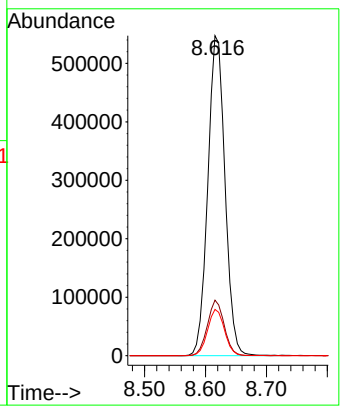


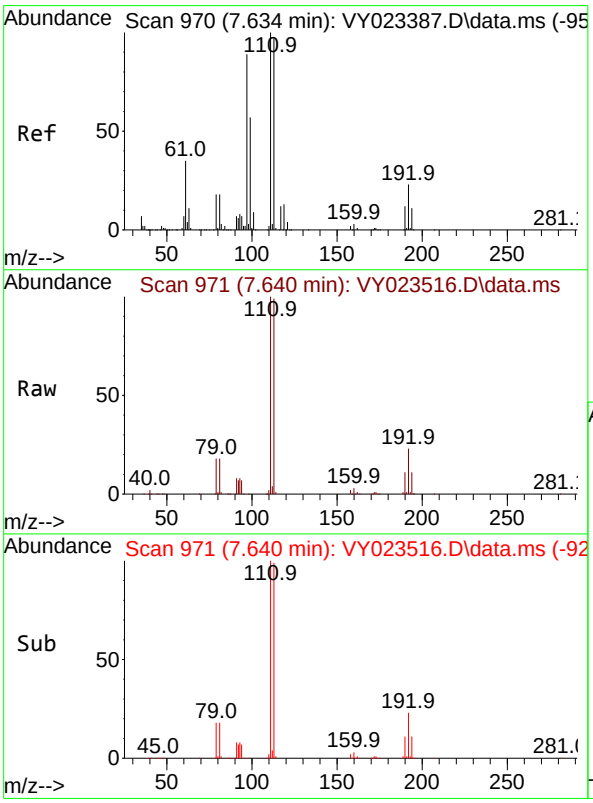
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023516.D
Acq: 20 Oct 2025 18:09

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

Tgt Ion:114 Resp: 1071621

Ion	Ratio	Lower	Upper
114	100		
63	17.3	0.0	34.2
88	14.4	0.0	28.4

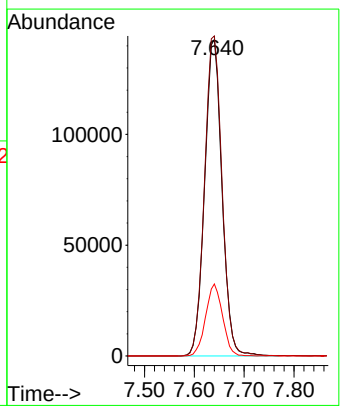


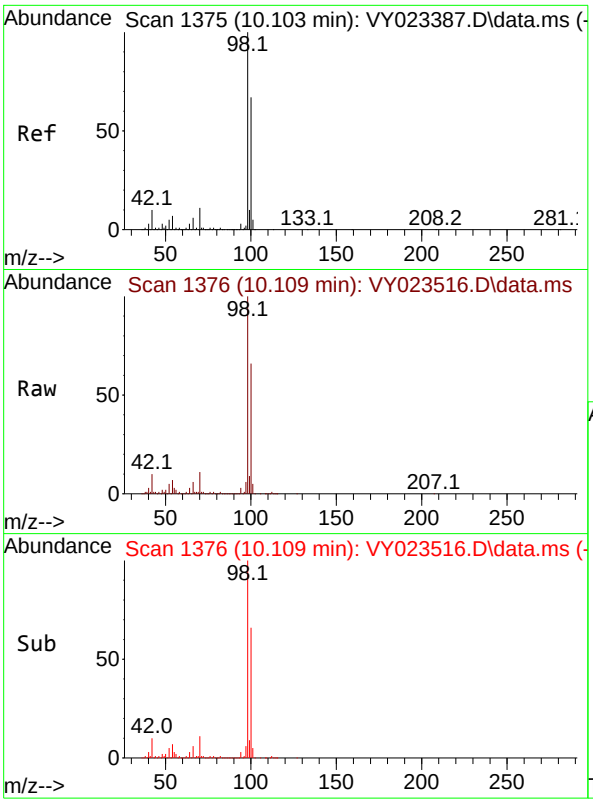


#35
Dibromofluoromethane
Concen: 52.229 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023516.D
Acq: 20 Oct 2025 18:09

Tgt Ion:113 Resp: 343909

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.8	122.6
192	22.3	18.0	27.0



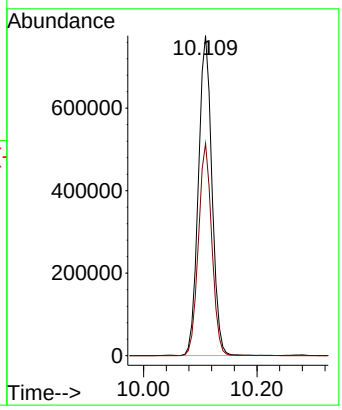


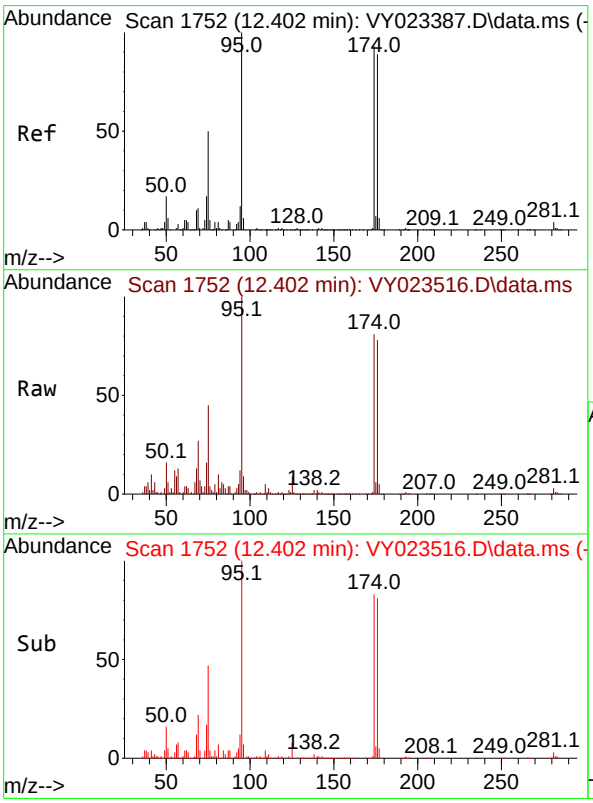
#50
Toluene-d8
Concen: 52.372 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023516.D
Acq: 20 Oct 2025 18:09

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

Tgt Ion: 98 Resp: 1284259

Ion	Ratio	Lower	Upper
98	100		
100	65.5	53.0	79.4

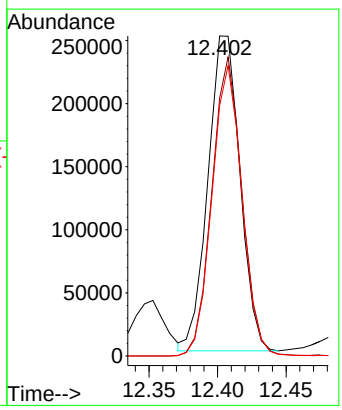


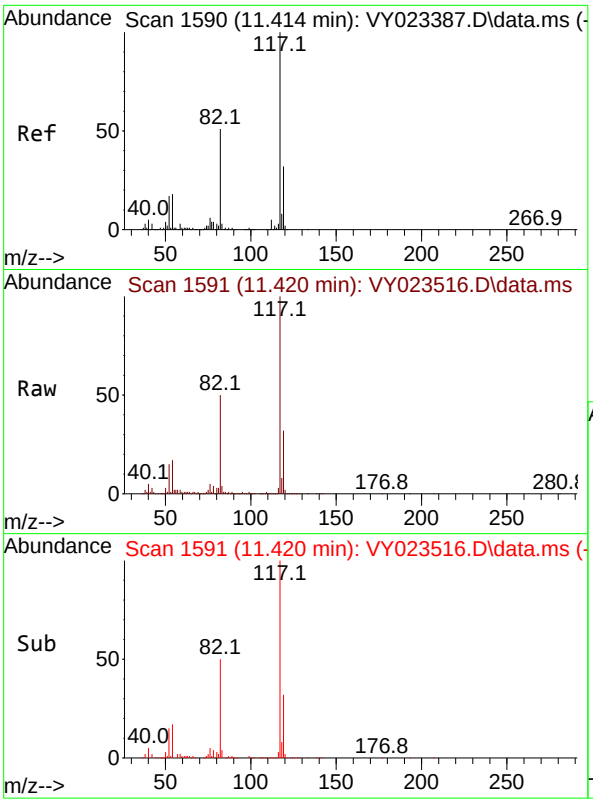


#62
4-Bromofluorobenzene
Concen: 50.027 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023516.D
Acq: 20 Oct 2025 18:09

Tgt Ion: 95 Resp: 405010

Ion	Ratio	Lower	Upper
95	100		
174	89.5	0.0	192.8
176	86.7	0.0	187.6



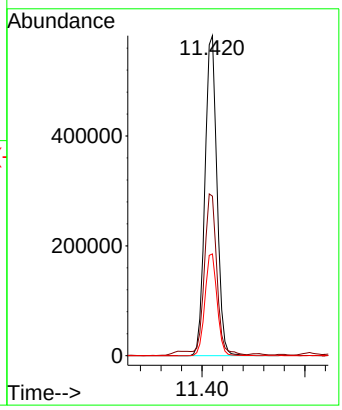


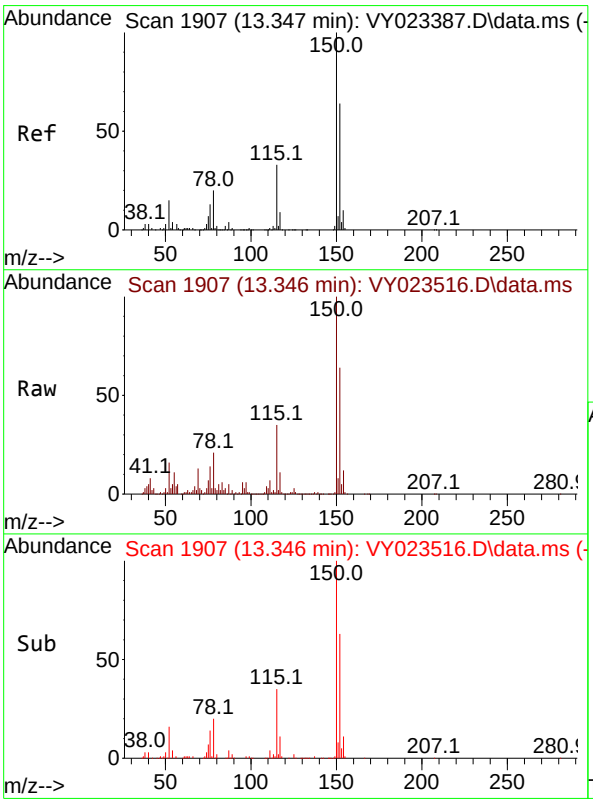
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023516.D
Acq: 20 Oct 2025 18:09

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

Tgt Ion:117 Resp: 942803

Ion	Ratio	Lower	Upper
117	100		
82	49.5	41.0	61.4
119	31.8	25.6	38.4

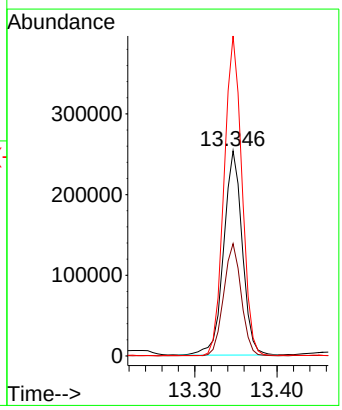




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023516.D
Acq: 20 Oct 2025 18:09

Tgt Ion:152 Resp: 398037

Ion	Ratio	Lower	Upper
152	100		
115	52.0	27.1	81.2
150	149.7	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023516.D
Acq On : 20 Oct 2025 18:09
Operator : SY/MD
Sample : Q3393-04
Misc : 4.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

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: VY023516.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.873	343	353	360	rBV	26695	73649	2.13%	0.130%
2	4.116	382	393	404	rBV	58186	163824	4.74%	0.289%
3	4.622	465	476	484	rBV5	26848	101475	2.93%	0.179%
4	4.708	484	490	501	rVB4	15508	55199	1.60%	0.097%
5	5.141	553	561	570	rVB3	12201	37359	1.08%	0.066%
6	6.598	790	800	809	rBV5	25999	85989	2.49%	0.152%
7	6.903	837	850	860	rBV4	14697	50348	1.46%	0.089%
8	7.640	959	971	976	rBV	477154	1139222	32.94%	2.010%
9	7.713	976	983	991	rVV	782484	1804129	52.16%	3.183%
10	7.793	991	996	1006	rVB2	72332	183815	5.31%	0.324%
11	7.975	1022	1026	1033	rVV4	15882	40056	1.16%	0.071%
12	8.061	1033	1040	1053	rVV	391250	885702	25.61%	1.563%
13	8.250	1053	1071	1080	rVV	201445	570167	16.49%	1.006%
14	8.347	1080	1087	1097	rVB3	30060	72921	2.11%	0.129%
15	8.616	1122	1131	1146	rBV	1191689	2340835	67.68%	4.130%
16	8.853	1162	1170	1177	rBV	128790	280504	8.11%	0.495%
17	9.116	1199	1213	1218	rBV5	268558	824991	23.85%	1.456%
18	9.170	1218	1222	1229	rVB2	128469	243823	7.05%	0.430%
19	9.250	1229	1235	1239	rBV2	22290	48586	1.40%	0.086%
20	9.311	1239	1245	1249	rVV2	26590	56910	1.65%	0.100%
21	9.390	1249	1258	1266	rVB2	182085	436809	12.63%	0.771%
22	9.542	1276	1283	1294	rVB2	192007	383079	11.08%	0.676%
23	9.682	1294	1306	1311	rBV3	191949	451357	13.05%	0.796%
24	9.731	1311	1314	1320	rVB2	55934	99754	2.88%	0.176%
25	9.865	1328	1336	1343	rBV2	131521	274906	7.95%	0.485%
26	9.932	1343	1347	1352	rVB3	25067	45378	1.31%	0.080%
27	10.000	1352	1358	1360	rBV3	76595	128922	3.73%	0.227%
28	10.042	1360	1365	1370	rVB	245972	412471	11.93%	0.728%
29	10.109	1370	1376	1390	rVB	2046484	3458556	100.00%	6.102%
30	10.231	1390	1396	1398	rBV4	26504	46023	1.33%	0.081%
31	10.274	1398	1403	1415	rVB4	92919	297059	8.59%	0.524%
32	10.408	1415	1425	1430	rBV2	180878	366873	10.61%	0.647%
33	10.445	1430	1431	1437	rVB3	42188	53406	1.54%	0.094%
34	10.566	1439	1451	1454	rBV5	109441	309059	8.94%	0.545%
35	10.640	1460	1463	1467	rVB2	44924	67219	1.94%	0.119%
36	10.688	1467	1471	1473	rBV2	46038	67472	1.95%	0.119%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023516.D
Acq On : 20 Oct 2025 18:09
Operator : SY/MD
Sample : Q3393-04
Misc : 4.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

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

37	10.731	1473	1478	1484	rVB	204089	370739	10.72%	0.654%
38	10.835	1484	1495	1502	rBV3	141389	445825	12.89%	0.787%
39	10.902	1502	1506	1509	rBV	119100	188816	5.46%	0.333%
40	10.963	1514	1516	1519	rBV	35212	35869	1.04%	0.063%
41	11.018	1519	1525	1530	rBV3	385069	705831	20.41%	1.245%
42	11.072	1530	1534	1538	rVB	209695	302273	8.74%	0.533%
43	11.121	1538	1542	1547	rVB4	109829	209120	6.05%	0.369%
44	11.194	1547	1554	1558	rBV3	106011	283921	8.21%	0.501%
45	11.310	1568	1573	1575	rBV	67434	108758	3.14%	0.192%
46	11.347	1575	1579	1583	rVV5	113963	216062	6.25%	0.381%
47	11.414	1584	1590	1600	rVV	1680310	2963469	85.69%	5.229%
48	11.493	1601	1603	1608	rVB3	45566	56609	1.64%	0.100%
49	11.554	1609	1613	1617	rVB2	77643	109744	3.17%	0.194%
50	11.615	1617	1623	1627	rBV	311280	607131	17.55%	1.071%
51	11.670	1627	1632	1642	rVB4	250392	758134	21.92%	1.338%
52	11.767	1642	1648	1651	rBV2	243315	453036	13.10%	0.799%
53	11.822	1651	1657	1661	rVB4	136969	307878	8.90%	0.543%
54	11.865	1661	1664	1667	rBV	183746	230060	6.65%	0.406%
55	11.920	1667	1673	1680	rBV4	471936	1222633	35.35%	2.157%
56	11.987	1680	1684	1686	rBV2	146850	200030	5.78%	0.353%
57	12.017	1686	1689	1692	rVV2	246232	389144	11.25%	0.687%
58	12.048	1692	1694	1698	rVB	266897	300883	8.70%	0.531%
59	12.085	1698	1700	1702	rBV2	74158	89228	2.58%	0.157%
60	12.127	1702	1707	1709	rBV3	654788	1044941	30.21%	1.844%
61	12.158	1709	1712	1717	rVB	949362	1493144	43.17%	2.635%
62	12.243	1717	1726	1731	rBV7	446538	1128707	32.64%	1.992%
63	12.310	1732	1737	1741	rVB4	182624	349460	10.10%	0.617%
64	12.408	1747	1753	1758	rVB4	1552357	2652604	76.70%	4.680%
65	12.499	1758	1768	1772	rBV6	421335	1097314	31.73%	1.936%
66	12.566	1776	1779	1786	rVB4	473988	881091	25.48%	1.555%
67	12.651	1786	1793	1800	rBV7	613010	1934935	55.95%	3.414%
68	12.719	1800	1804	1809	rBV5	413605	1051150	30.39%	1.855%
69	12.853	1821	1826	1832	rBV2	872095	1847708	53.42%	3.260%
70	12.920	1832	1837	1841	rBV	1197751	1852683	53.57%	3.269%
71	12.962	1841	1844	1847	rBV3	376947	553520	16.00%	0.977%
72	13.090	1862	1865	1873	rVV8	297191	647277	18.72%	1.142%
73	13.176	1875	1879	1881	rVV3	260946	409830	11.85%	0.723%
74	13.212	1881	1885	1892	rVV4	537508	1265452	36.59%	2.233%
75	13.273	1892	1895	1900	rVV3	397072	612300	17.70%	1.080%
76	13.346	1901	1907	1914	rVV	1360277	2414878	69.82%	4.261%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023516.D
Acq On : 20 Oct 2025 18:09
Operator : SY/MD
Sample : Q3393-04
Misc : 4.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

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

77	13.414	1915	1918	1921	rVB3	158317	192683	5.57%	0.340%
78	13.487	1927	1930	1934	rVB3	318091	440490	12.74%	0.777%
79	13.529	1934	1937	1940	rBV4	201347	268397	7.76%	0.474%
80	13.663	1954	1959	1966	rVB7	486312	888176	25.68%	1.567%
81	13.993	2010	2013	2018	rVB4	213166	283307	8.19%	0.500%
82	14.060	2019	2024	2030	rVB7	278176	635857	18.39%	1.122%
83	14.121	2031	2034	2038	rBV6	102339	152143	4.40%	0.268%
84	14.176	2038	2043	2057	rVB3	670483	1682455	48.65%	2.969%
85	14.340	2067	2070	2074	rVB3	390576	507554	14.68%	0.896%
86	14.535	2099	2102	2107	rBV6	118157	163669	4.73%	0.289%
87	14.645	2117	2120	2127	rVB2	451286	713784	20.64%	1.259%
88	14.761	2136	2139	2142	rBV2	195666	277711	8.03%	0.490%
89	14.858	2151	2155	2159	rVB3	256640	395119	11.42%	0.697%
90	14.913	2161	2164	2167	rBV3	118564	189369	5.48%	0.334%
91	15.029	2180	2183	2191	rVB6	249401	515798	14.91%	0.910%
92	15.127	2195	2199	2203	rVV4	172879	273133	7.90%	0.482%
93	15.346	2232	2235	2243	rBV6	118232	241631	6.99%	0.426%
94	15.505	2257	2261	2267	rVB2	345763	623237	18.02%	1.100%
95	16.053	2347	2351	2357	rVB5	124398	221285	6.40%	0.390%
96	16.358	2397	2401	2407	rVB5	137012	260101	7.52%	0.459%

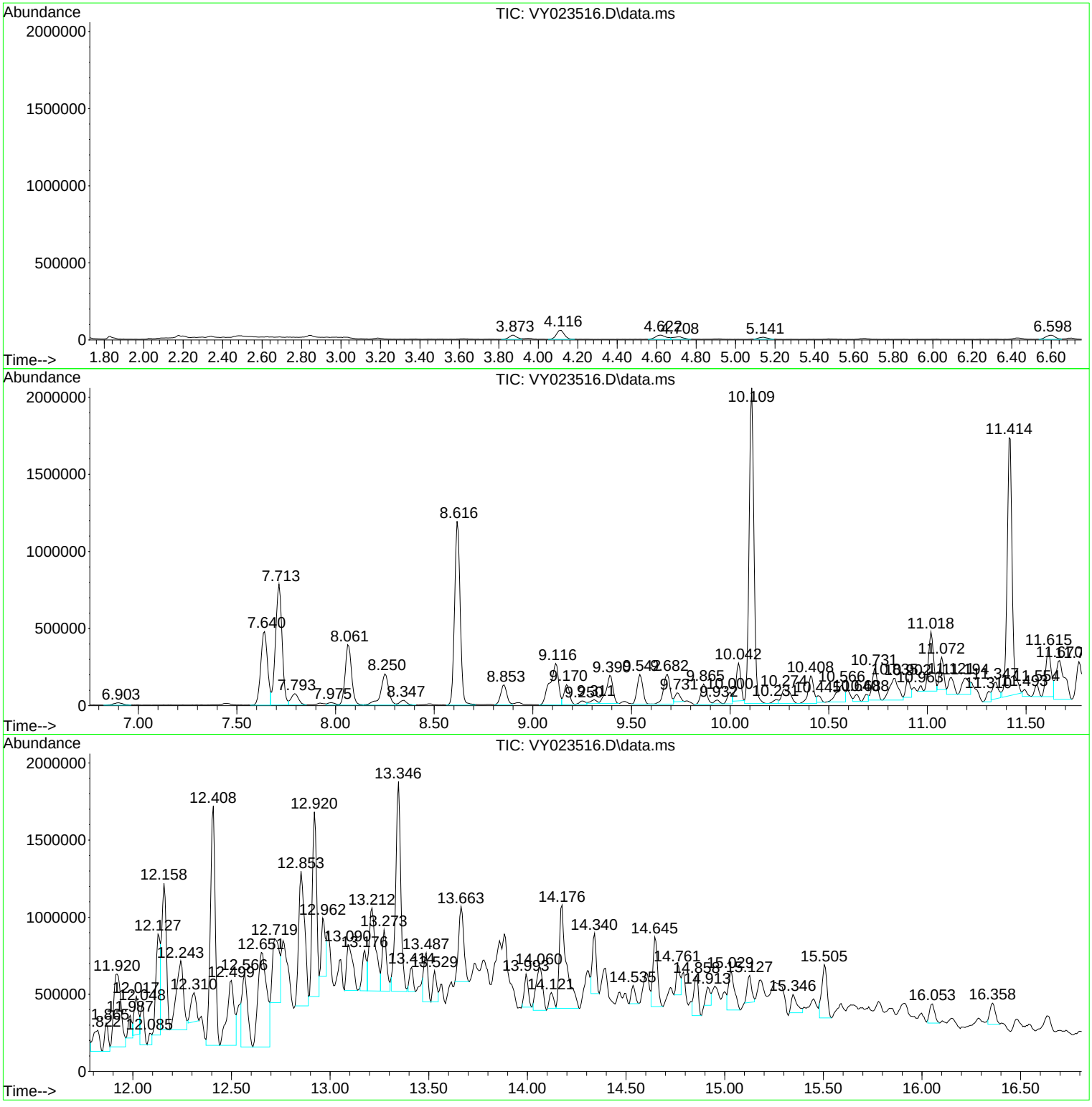
Sum of corrected areas: 56675933

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023516.D
Acq On : 20 Oct 2025 18:09
Operator : SY/MD
Sample : Q3393-04
Misc : 4.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

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\VY102025\
Data File : VY023516.D
Acq On : 20 Oct 2025 18:09
Operator : SY/MD
Sample : Q3393-04
Misc : 4.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

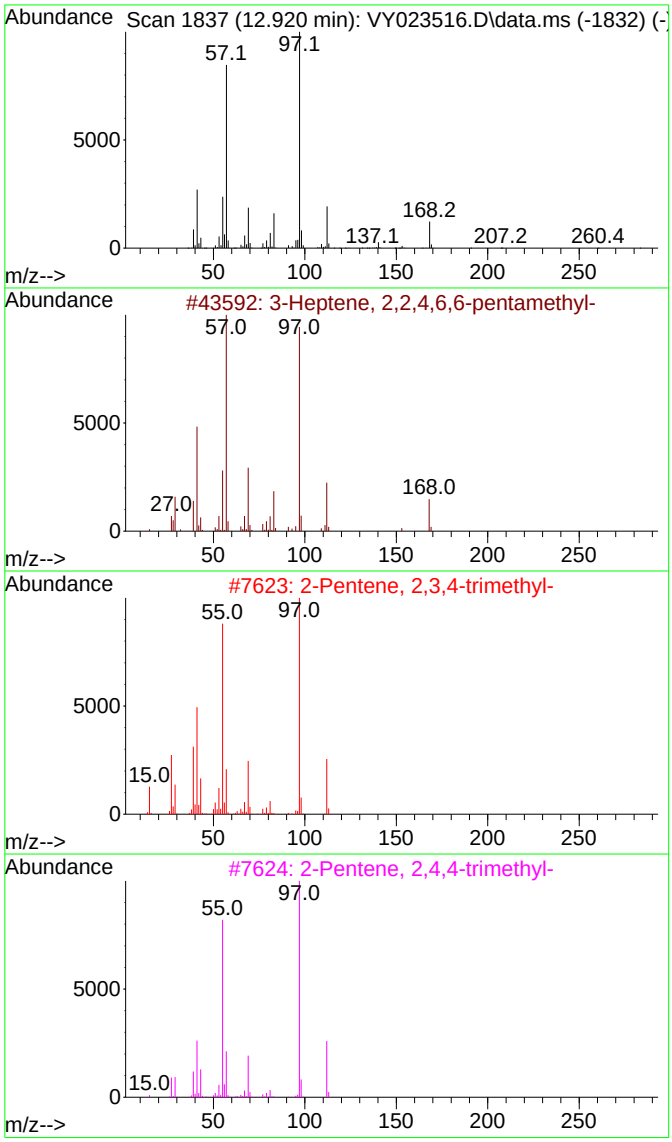
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

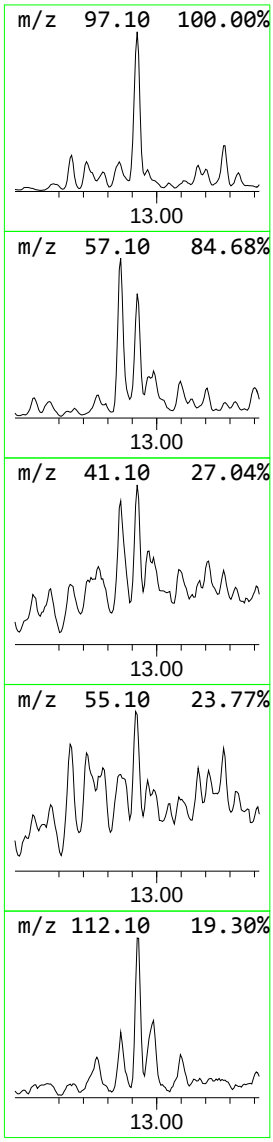
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 3-Heptene, 2,2,4,6,6-pentam... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.920	38.36 ug/l	1852680	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Heptene, 2,2,4,6,6-pentamethyl-	168	C12H24	000123-48-8	90
2	2-Pentene, 2,3,4-trimethyl-	112	C8H16	000565-77-5	64
3	2-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-40-4	64
4	2-Pentene, 3,4,4-trimethyl-	112	C8H16	000598-96-9	59
5	1-(Trimethylsilyl)-1-propyne	112	C6H12Si	006224-91-5	53





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023516.D
Acq On : 20 Oct 2025 18:09
Operator : SY/MD
Sample : Q3393-04
Misc : 4.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

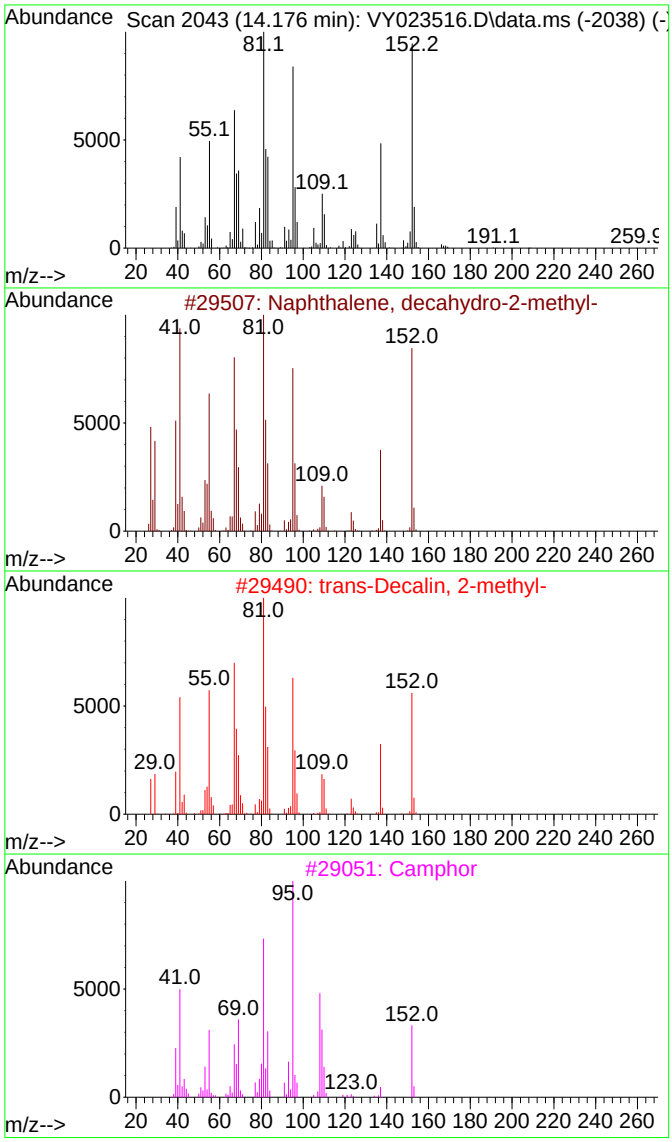
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

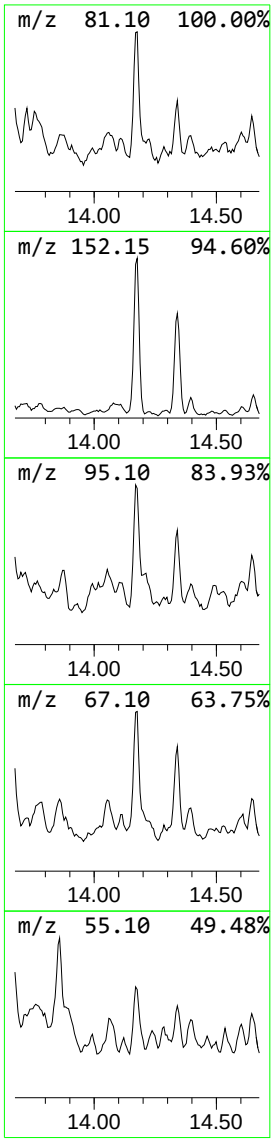
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 10 Naphthalene, decahydro-2-me... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.176	34.84 ug/l	1682460	1,4-Dichlorobenzene-d4	13.347

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	94
2	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	93
3	Camphor	152	C10H16O	000076-22-2	81
4	(+)-2-Bornanone	152	C10H16O	000464-49-3	76
5	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	72





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023516.D
Acq On : 20 Oct 2025 18:09
Operator : SY/MD
Sample : Q3393-04
Misc : 4.61g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S06-000021-20251017

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
3-Heptene, 2,2,...	12.920	38.4	ug/l	1852680	4	13.347	2414880	50.0
Naphthalene, de...	14.176	34.8	ug/l	1682460	4	13.347	2414880	50.0

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

Report of Analysis

Client:	AECOM	Date Collected:	10/17/25
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	10/17/25
Client Sample ID:	PR132-S08-000013-202510	SDG No.:	Q3393
Lab Sample ID:	Q3393-05	Matrix:	SOIL
Analytical Method:	8260D	Level : LOW	% Solid: 52
Sample Wt/Vol:	3.08 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	15.6	U	1	3.60	15.6	ug/Kg	10/20/25 18:33	VY102025
74-87-3	Chloromethane	15.6	U	1	3.60	15.6	ug/Kg	10/20/25 18:33	VY102025
75-01-4	Vinyl Chloride	15.6	U	1	2.50	15.6	ug/Kg	10/20/25 18:33	VY102025
74-83-9	Bromomethane	15.6	U	1	3.30	15.6	ug/Kg	10/20/25 18:33	VY102025
75-00-3	Chloroethane	15.6	U	1	3.90	15.6	ug/Kg	10/20/25 18:33	VY102025
75-69-4	Trichlorofluoromethane	15.6	U	1	3.80	15.6	ug/Kg	10/20/25 18:33	VY102025
76-13-1	1,1,2-Trichlorotrifluoroethane	15.6	U	1	3.30	15.6	ug/Kg	10/20/25 18:33	VY102025
75-35-4	1,1-Dichloroethene	15.6	U	1	3.10	15.6	ug/Kg	10/20/25 18:33	VY102025
67-64-1	Acetone	110		1	14.8	78.0	ug/Kg	10/20/25 18:33	VY102025
75-15-0	Carbon Disulfide	22.5		1	3.30	15.6	ug/Kg	10/20/25 18:33	VY102025
1634-04-4	Methyl tert-butyl Ether	15.6	U	1	2.30	15.6	ug/Kg	10/20/25 18:33	VY102025
79-20-9	Methyl Acetate	15.6	U	1	4.80	15.6	ug/Kg	10/20/25 18:33	VY102025
75-09-2	Methylene Chloride	31.2	U	1	11.0	31.2	ug/Kg	10/20/25 18:33	VY102025
156-60-5	trans-1,2-Dichloroethene	15.6	U	1	2.70	15.6	ug/Kg	10/20/25 18:33	VY102025
75-34-3	1,1-Dichloroethane	15.6	U	1	2.50	15.6	ug/Kg	10/20/25 18:33	VY102025
110-82-7	Cyclohexane	15.6	U	1	2.50	15.6	ug/Kg	10/20/25 18:33	VY102025
78-93-3	2-Butanone	35.7	J	1	20.4	78.0	ug/Kg	10/20/25 18:33	VY102025
56-23-5	Carbon Tetrachloride	15.6	U	1	3.00	15.6	ug/Kg	10/20/25 18:33	VY102025
156-59-2	cis-1,2-Dichloroethene	15.6	U	1	2.30	15.6	ug/Kg	10/20/25 18:33	VY102025
74-97-5	Bromochloromethane	15.6	U	1	3.60	15.6	ug/Kg	10/20/25 18:33	VY102025
67-66-3	Chloroform	15.6	U	1	2.60	15.6	ug/Kg	10/20/25 18:33	VY102025
71-55-6	1,1,1-Trichloroethane	15.6	U	1	2.90	15.6	ug/Kg	10/20/25 18:33	VY102025
108-87-2	Methylcyclohexane	14.1	J	1	2.80	15.6	ug/Kg	10/20/25 18:33	VY102025
71-43-2	Benzene	7.90	J	1	2.50	15.6	ug/Kg	10/20/25 18:33	VY102025
107-06-2	1,2-Dichloroethane	15.6	U	1	2.50	15.6	ug/Kg	10/20/25 18:33	VY102025
79-01-6	Trichloroethene	15.6	U	1	2.50	15.6	ug/Kg	10/20/25 18:33	VY102025
78-87-5	1,2-Dichloropropane	15.6	U	1	2.80	15.6	ug/Kg	10/20/25 18:33	VY102025
75-27-4	Bromodichloromethane	15.6	U	1	2.40	15.6	ug/Kg	10/20/25 18:33	VY102025
108-10-1	4-Methyl-2-Pentanone	78.0	U	1	11.2	78.0	ug/Kg	10/20/25 18:33	VY102025
108-88-3	Toluene	15.6	U	1	2.40	15.6	ug/Kg	10/20/25 18:33	VY102025
10061-02-6	t-1,3-Dichloropropene	15.6	U	1	2.00	15.6	ug/Kg	10/20/25 18:33	VY102025
10061-01-5	cis-1,3-Dichloropropene	15.6	U	1	1.90	15.6	ug/Kg	10/20/25 18:33	VY102025
79-00-5	1,1,2-Trichloroethane	15.6	U	1	2.90	15.6	ug/Kg	10/20/25 18:33	VY102025
591-78-6	2-Hexanone	78.0	U	1	11.5	78.0	ug/Kg	10/20/25 18:33	VY102025
124-48-1	Dibromochloromethane	15.6	U	1	2.70	15.6	ug/Kg	10/20/25 18:33	VY102025
106-93-4	1,2-Dibromoethane	15.6	U	1	2.70	15.6	ug/Kg	10/20/25 18:33	VY102025
127-18-4	Tetrachloroethene	15.6	U	1	3.30	15.6	ug/Kg	10/20/25 18:33	VY102025
108-90-7	Chlorobenzene	15.6	U	1	2.80	15.6	ug/Kg	10/20/25 18:33	VY102025
100-41-4	Ethyl Benzene	11.3	J	1	2.10	15.6	ug/Kg	10/20/25 18:33	VY102025
179601-23-1	m/p-Xylenes	16.3	J	1	3.90	31.2	ug/Kg	10/20/25 18:33	VY102025
95-47-6	o-Xylene	9.40	J	1	2.60	15.6	ug/Kg	10/20/25 18:33	VY102025
100-42-5	Styrene	15.6	U	1	2.20	15.6	ug/Kg	10/20/25 18:33	VY102025
75-25-2	Bromoform	15.6	U	1	2.70	15.6	ug/Kg	10/20/25 18:33	VY102025

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

Report of Analysis

Client:	AECOM	Date Collected:	10/17/25
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	10/17/25
Client Sample ID:	PR132-S08-000013-202510	SDG No.:	Q3393
Lab Sample ID:	Q3393-05	Matrix:	SOIL
Analytical Method:	8260D	Level : LOW	% Solid: 52
Sample Wt/Vol:	3.08 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	5.90	J	1	2.40	15.6	ug/Kg	10/20/25 18:33	VY102025
79-34-5	1,1,2,2-Tetrachloroethane	15.6	U	1	3.80	15.6	ug/Kg	10/20/25 18:33	VY102025
541-73-1	1,3-Dichlorobenzene	15.6	U	1	5.30	15.6	ug/Kg	10/20/25 18:33	VY102025
106-46-7	1,4-Dichlorobenzene	15.6	U	1	4.90	15.6	ug/Kg	10/20/25 18:33	VY102025
95-50-1	1,2-Dichlorobenzene	15.6	U	1	4.50	15.6	ug/Kg	10/20/25 18:33	VY102025
96-12-8	1,2-Dibromo-3-Chloropropane	15.6	U	1	5.70	15.6	ug/Kg	10/20/25 18:33	VY102025
120-82-1	1,2,4-Trichlorobenzene	15.6	U	1	9.30	15.6	ug/Kg	10/20/25 18:33	VY102025
87-61-6	1,2,3-Trichlorobenzene	15.6	U	1	9.90	15.6	ug/Kg	10/20/25 18:33	VY102025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	51.8			63 - 155	104%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.0			70 - 134	100%	SPK: 50		
2037-26-5	Toluene-d8	49.9			74 - 123	100%	SPK: 50		
460-00-4	4-Bromofluorobenzene	45.6			17 - 146	91%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	766000							
540-36-3	1,4-Difluorobenzene	1250000							
3114-55-4	Chlorobenzene-d5	1020000							
3855-82-1	1,4-Dichlorobenzene-d4	403000							
TENTATIVE IDENTIFIED COMPOUNDS									
000141-70-8	Heptane, 2,2,6,6-tetramethyl-4-met	340	J			12.9	ug/Kg		
000123-48-8	3-Heptene, 2,2,4,6,6-pentamethyl-	350	J			12.9	ug/Kg		
95-63-6	1,2,4-Trimethylbenzene	24.8	J			13.0	ug/Kg		
000091-17-8	Naphthalene, decahydro-	170	J			13.7	ug/Kg		
1000152-47-3	trans-Decalin, 2-methyl-	190	J			14.2	ug/Kg		
017301-23-4	Undecane, 2,6-dimethyl-	180	J			14.6	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_Y\Data\VY102025\
Data File : VY023517.D
Acq On : 20 Oct 2025 18:33
Operator : SY/MD
Sample : Q3393-05
Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

Manual Integrations APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 21 04:02:55 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	766180	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1249126	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1022154	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	403478	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	331851	51.796	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 103.600%			
35) Dibromofluoromethane	7.640	113	383674	49.988	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.980%			
50) Toluene-d8	10.109	98	1427189	49.930	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.860%			
62) 4-Bromofluorobenzene	12.401	95	430539	45.623	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 91.240%			
Target Compounds						Qvalue
16) Acetone	3.872	43	52490	34.413	ug/l	95
17) Carbon Disulfide	4.110	76	141225	7.220	ug/l	99
25) 2-Butanone	6.902	43	21271	11.423	ug/l	91
39) Methylcyclohexane	9.109	83	59623m	4.507	ug/l	
40) Benzene	8.079	78	81685	2.538	ug/l	99
67) Ethyl Benzene	11.517	91	130185	3.618	ug/l	99
68) m/p-Xylenes	11.633	106	75435	5.226	ug/l	89
69) o-Xylene	11.956	106	40646	3.002	ug/l	90
73) Isopropylbenzene	12.255	105	50157	1.886	ug/l	98
84) 1,2,4-Trimethylbenzene	13.042	105	170384	7.946	ug/l	99

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

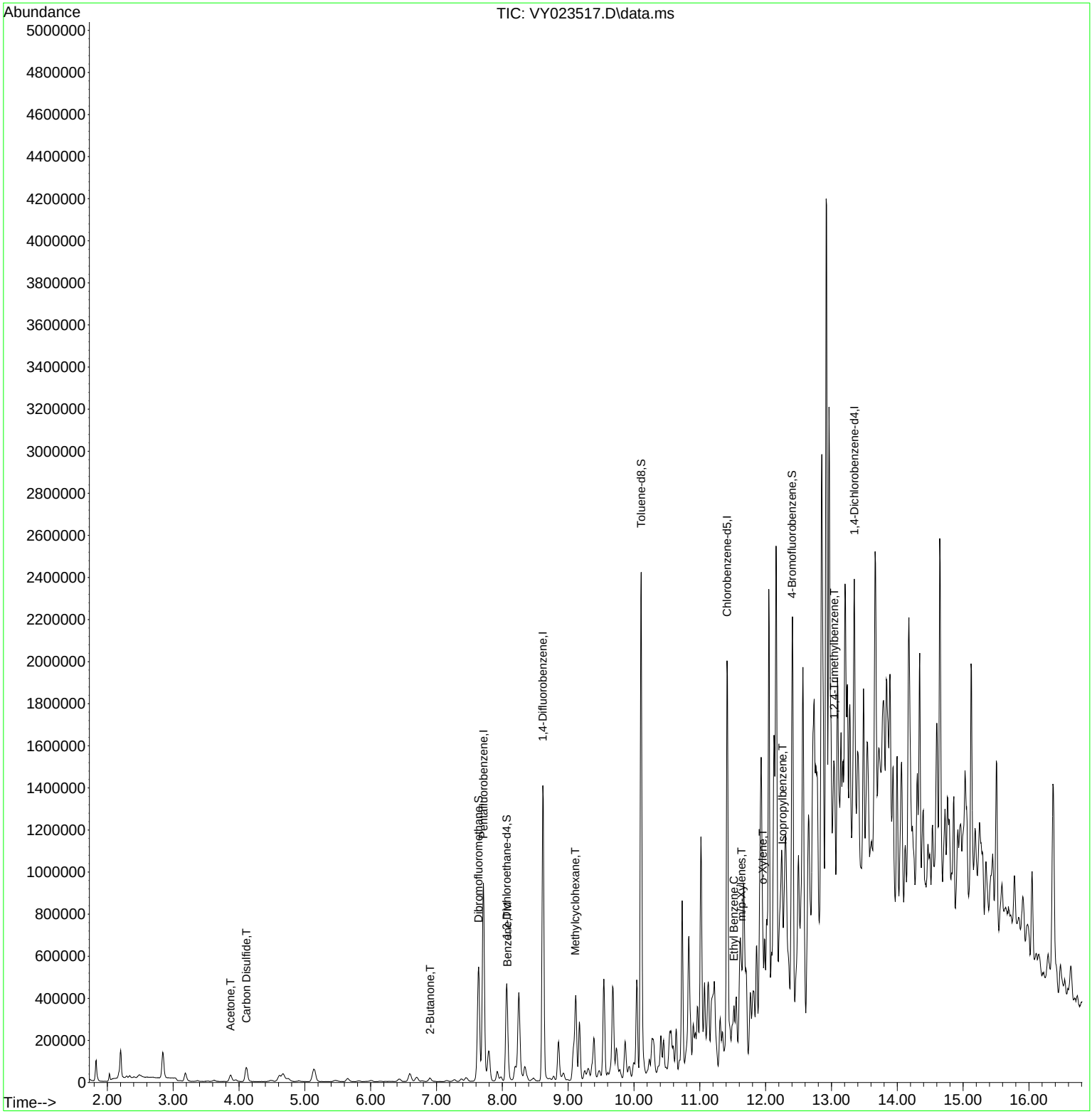
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023517.D
Acq On : 20 Oct 2025 18:33
Operator : SY/MD
Sample : Q3393-05
Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

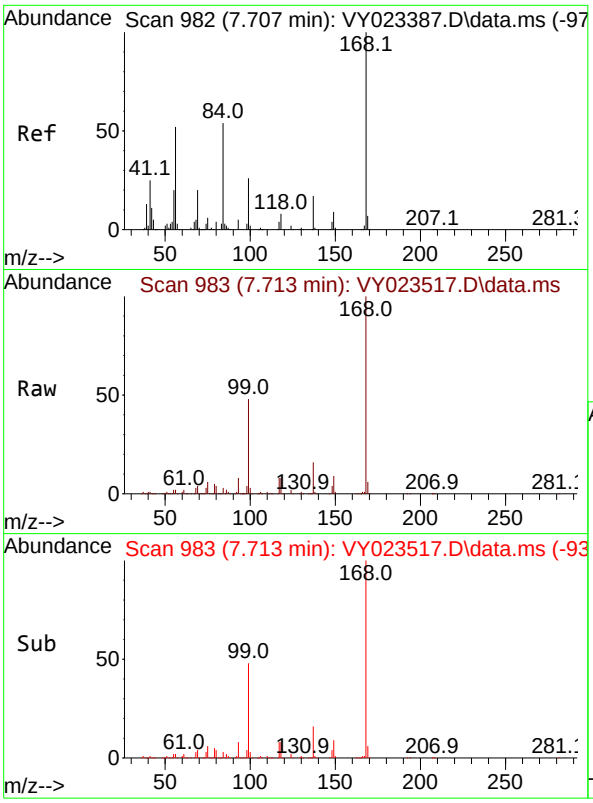
Quant Time: Oct 21 04:02:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

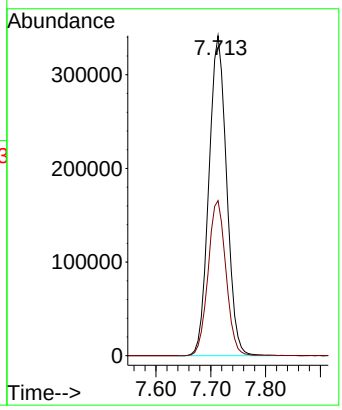




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion:168 Resp: 76618

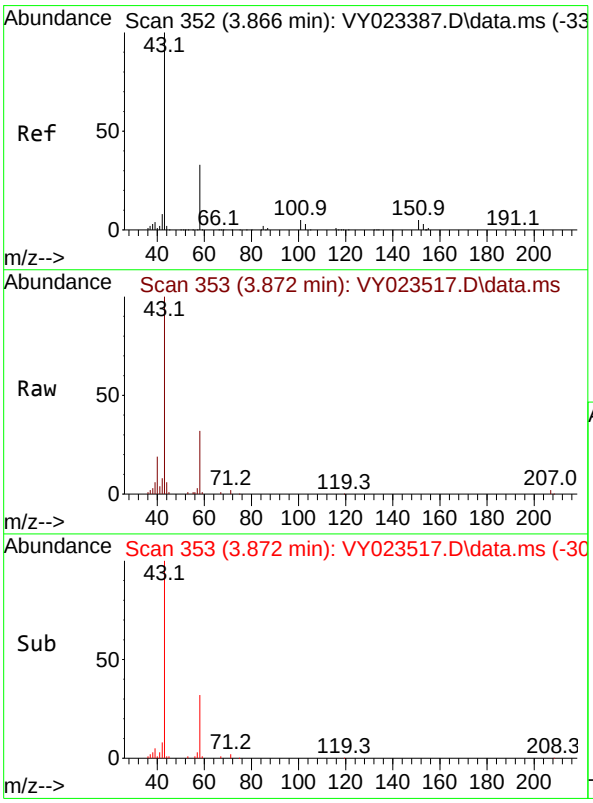
Ion	Ratio	Lower	Upper
168	100		
99	48.4	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

Manual Integrations
APPROVED

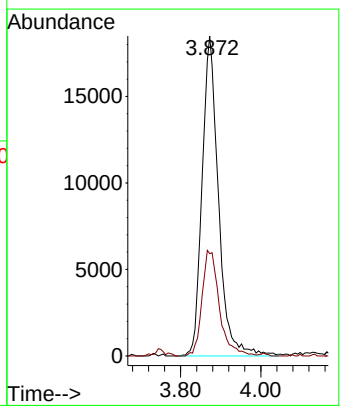
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

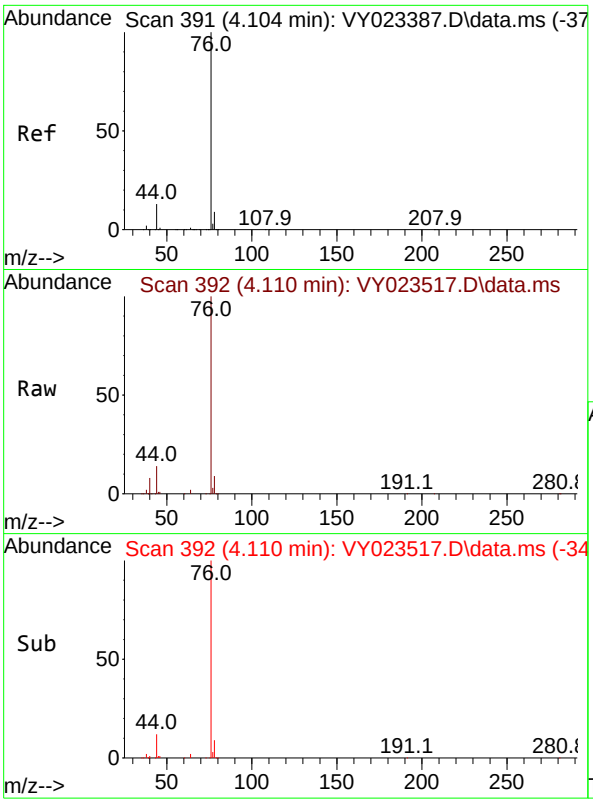


#16
Acetone
Concen: 34.413 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion: 43 Resp: 52490

Ion	Ratio	Lower	Upper
43	100		
58	32.0	27.7	41.5

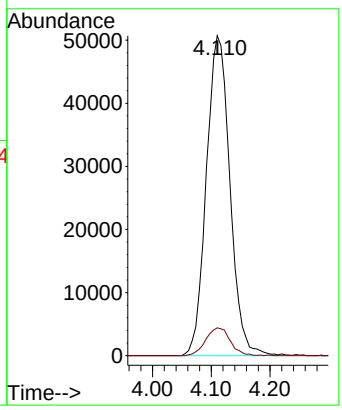




#17
Carbon Disulfide
Concen: 7.220 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion: 76 Resp: 14122

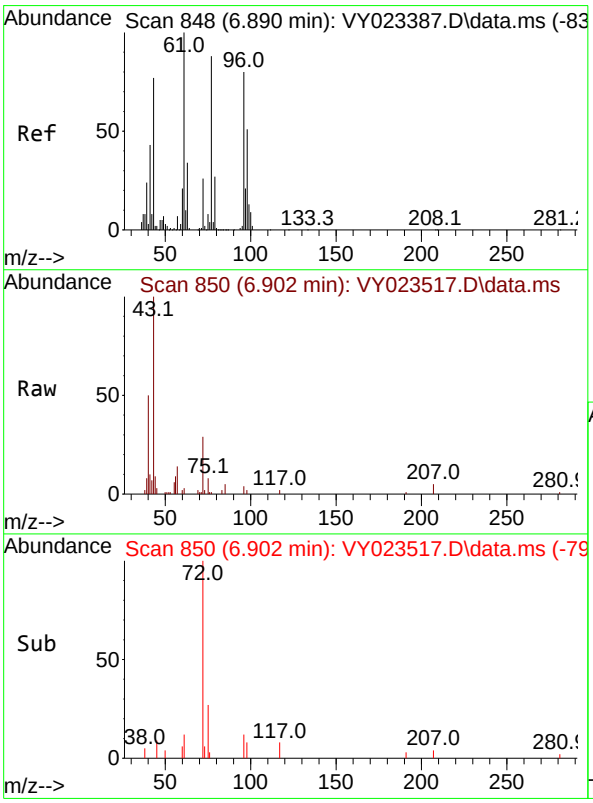
Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

Manual Integrations
APPROVED

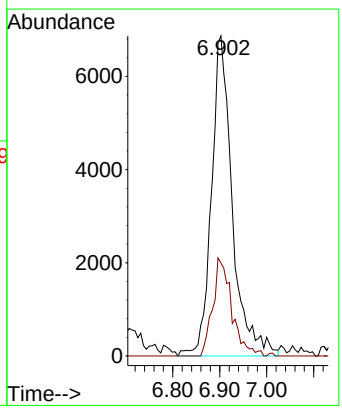
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

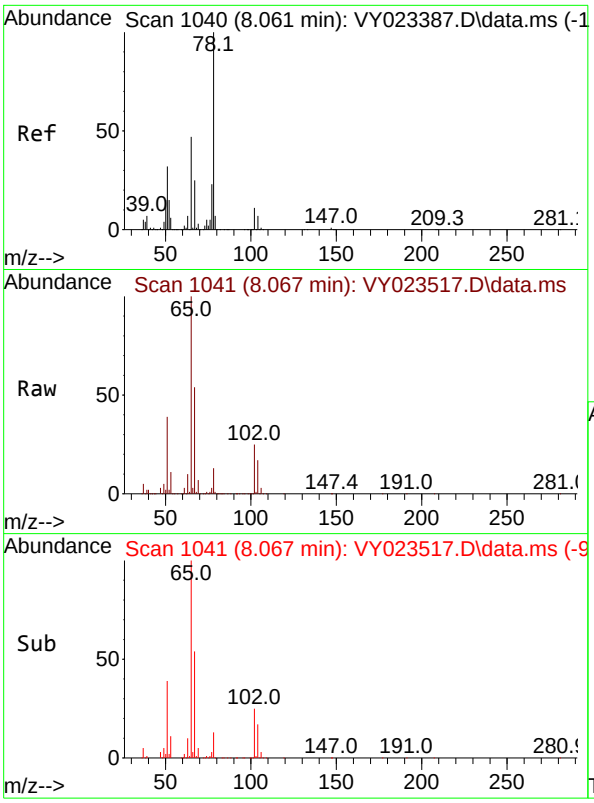


#25
2-Butanone
Concen: 11.423 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.012 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion: 43 Resp: 21271

Ion	Ratio	Lower	Upper
43	100		
72	29.1	27.4	41.2

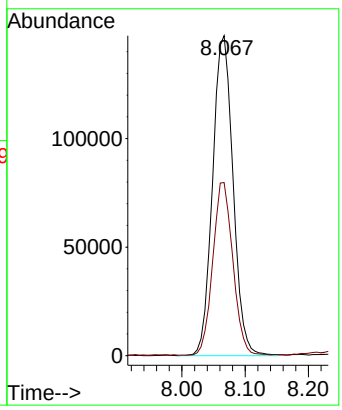




#33
1,2-Dichloroethane-d4
Concen: 51.796 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion: 65 Resp: 33185

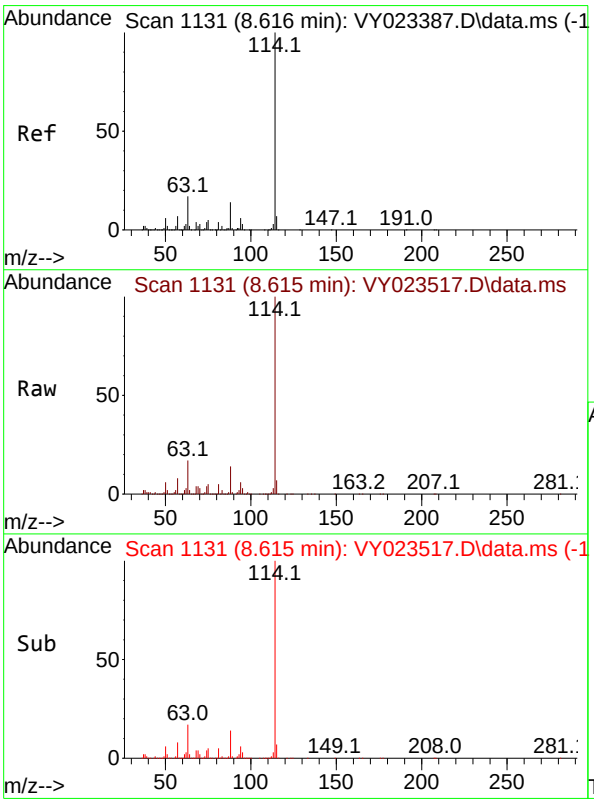
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

Manual Integrations
APPROVED

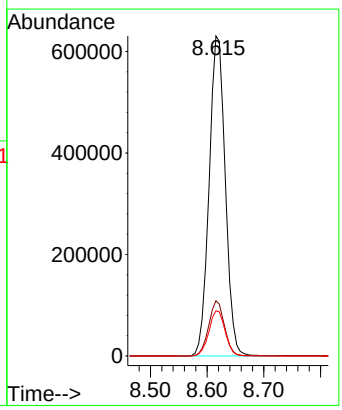
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

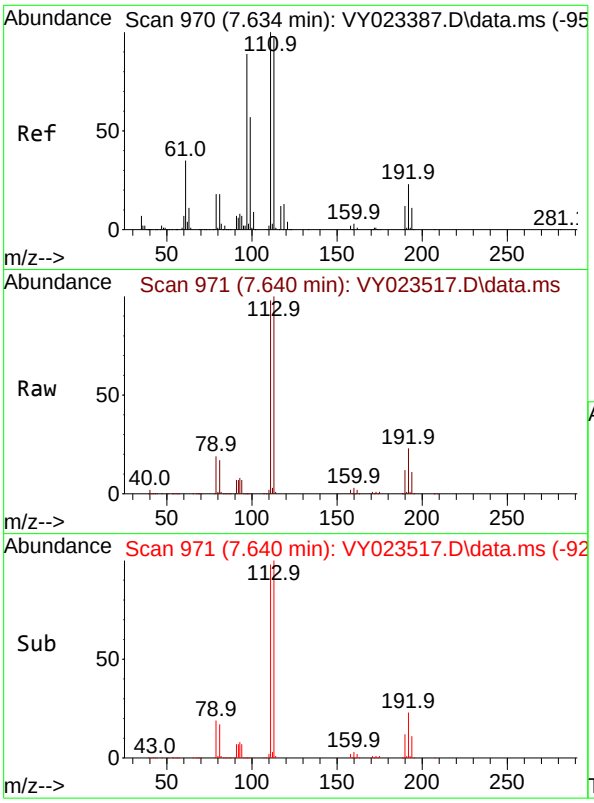


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion:114 Resp: 1249126

Ion	Ratio	Lower	Upper
114	100		
63	17.3	0.0	34.2
88	14.1	0.0	28.4

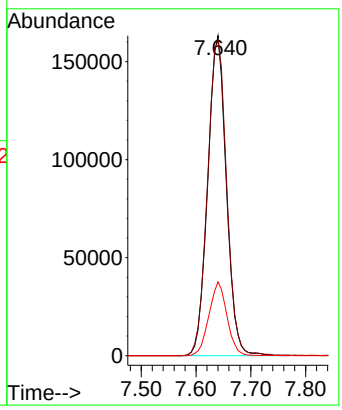




#35
Dibromofluoromethane
Concen: 49.988 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion:113 Resp: 38367

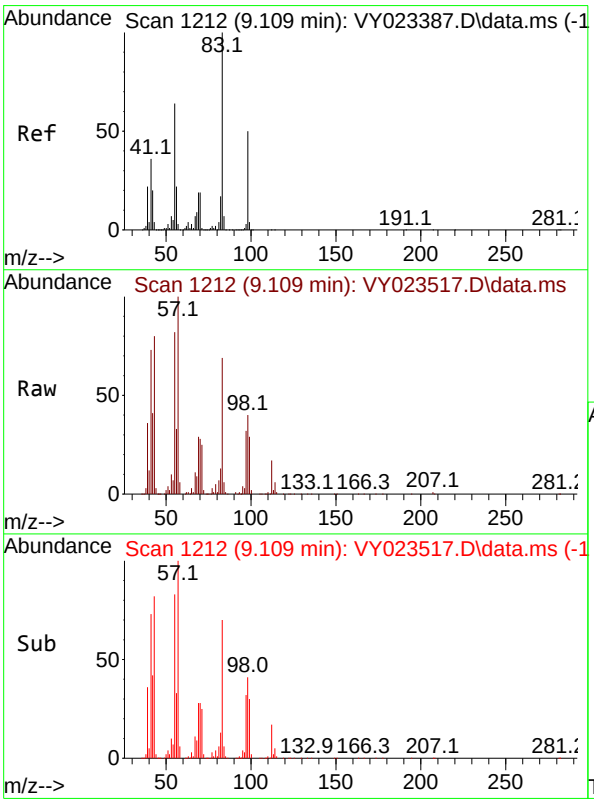
Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.8	122.6
192	22.4	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

Manual Integrations
APPROVED

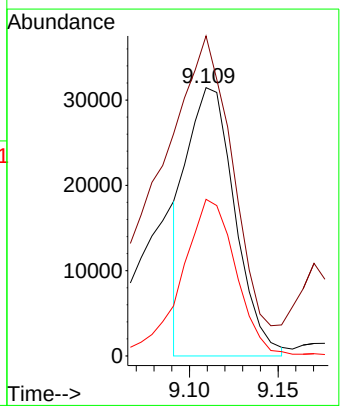
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

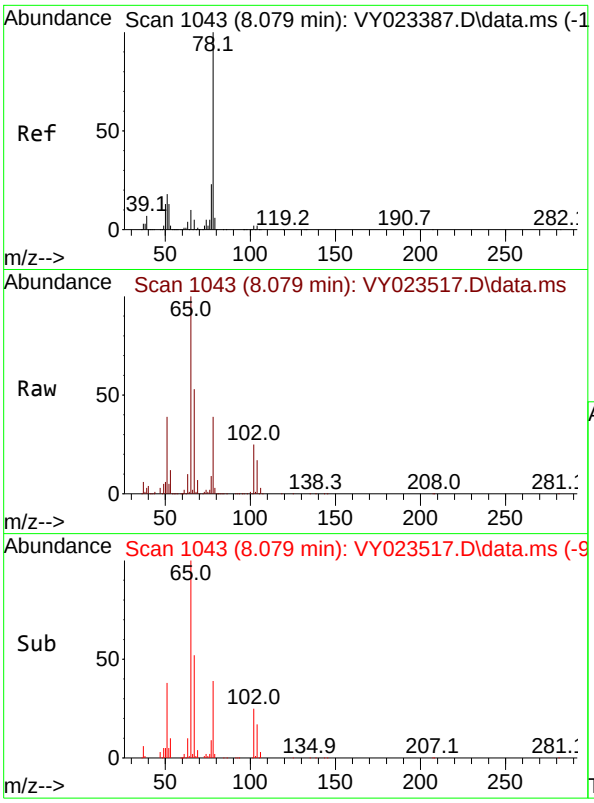


#39
Methylcyclohexane
Concen: 4.507 ug/l m
RT: 9.109 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion: 83 Resp: 59623

Ion	Ratio	Lower	Upper
83	100		
55	119.3	51.4	77.2#
98	58.4	40.4	60.6





#40
Benzene
Concen: 2.538 ug/l
RT: 8.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

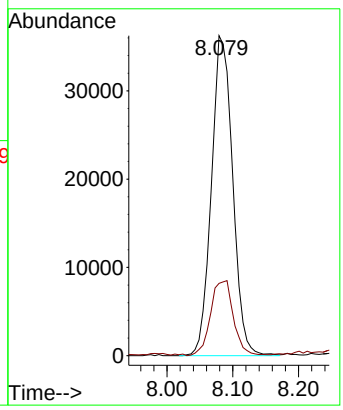
Tgt Ion: 78 Resp: 8168

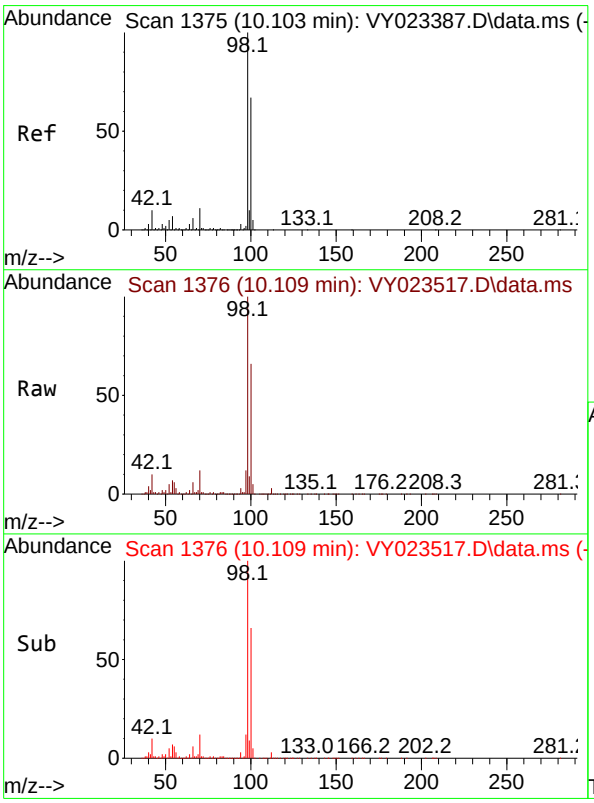
Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.3	27.5

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

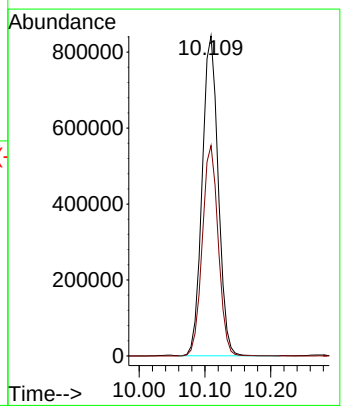


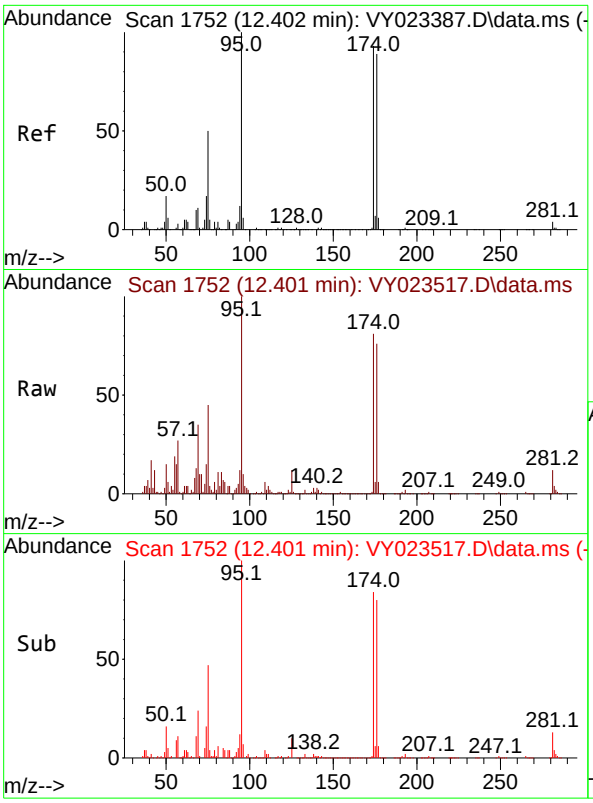


#50
Toluene-d8
Concen: 49.930 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion: 98 Resp: 1427189

Ion	Ratio	Lower	Upper
98	100		
100	65.4	53.0	79.4

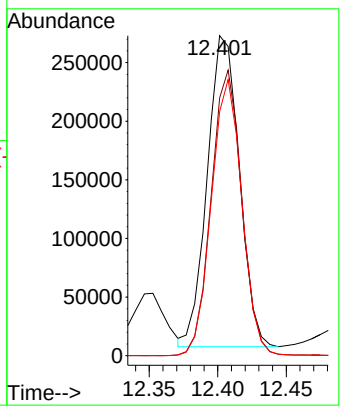




#62
4-Bromofluorobenzene
Concen: 45.623 ug/l
RT: 12.401 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

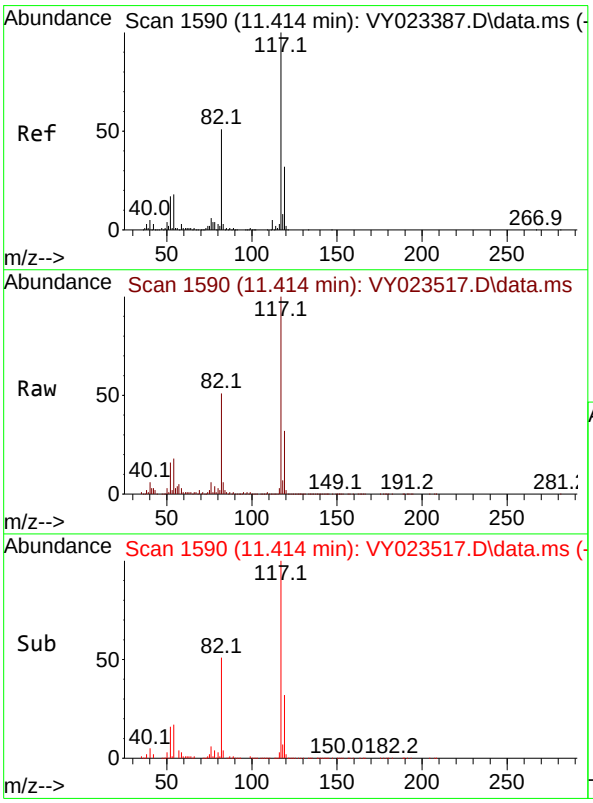
Tgt Ion: 95 Resp: 43053

Ion	Ratio	Lower	Upper
95	100		
174	88.3	0.0	192.8
176	85.2	0.0	187.6



Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

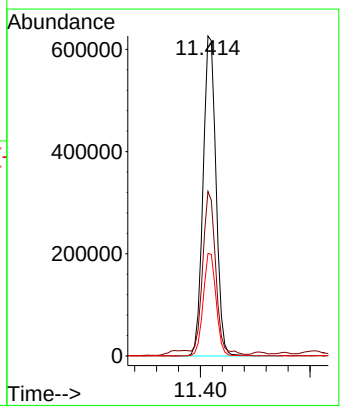
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

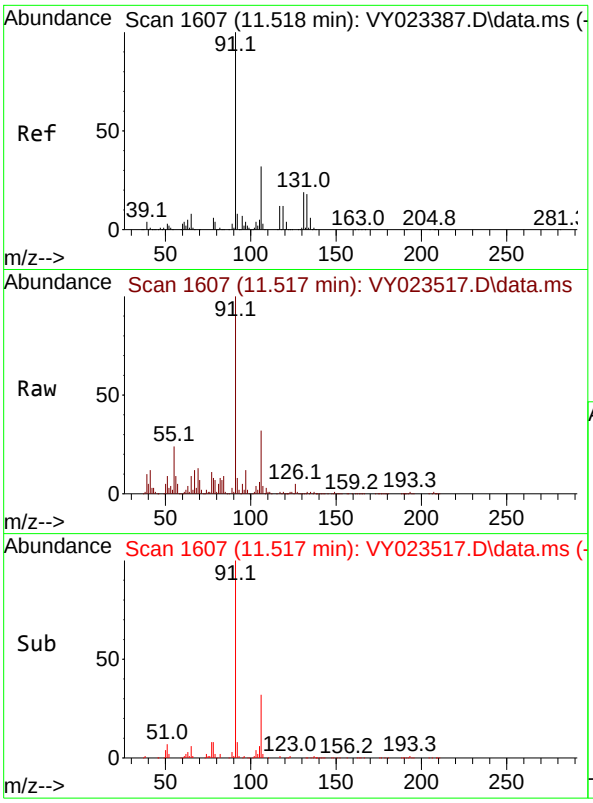


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion:117 Resp: 1022154

Ion	Ratio	Lower	Upper
117	100		
82	50.6	41.0	61.4
119	32.0	25.6	38.4

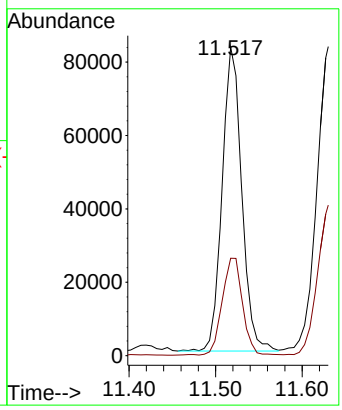




#67
Ethyl Benzene
Concen: 3.618 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion: 91 Resp: 13018

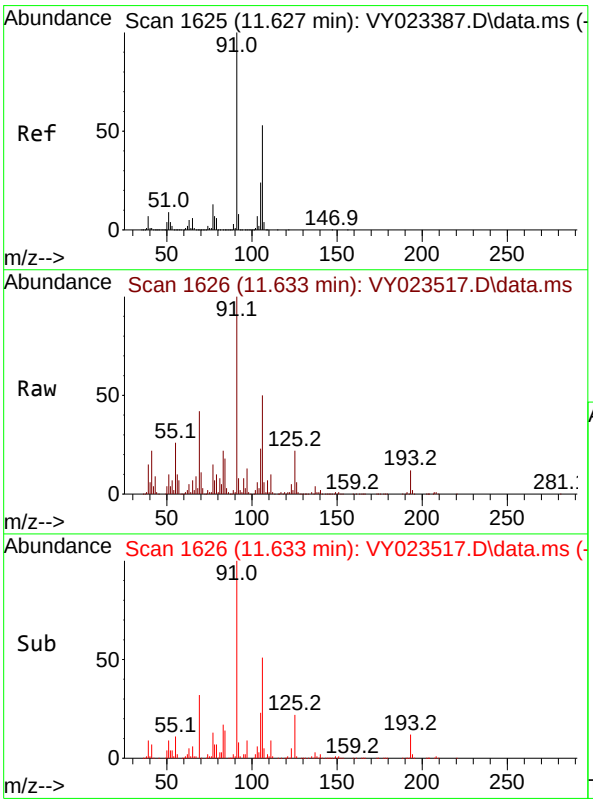
Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

Manual Integrations
APPROVED

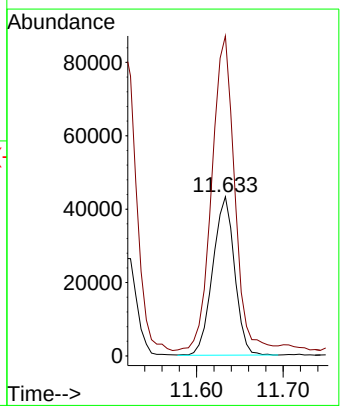
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

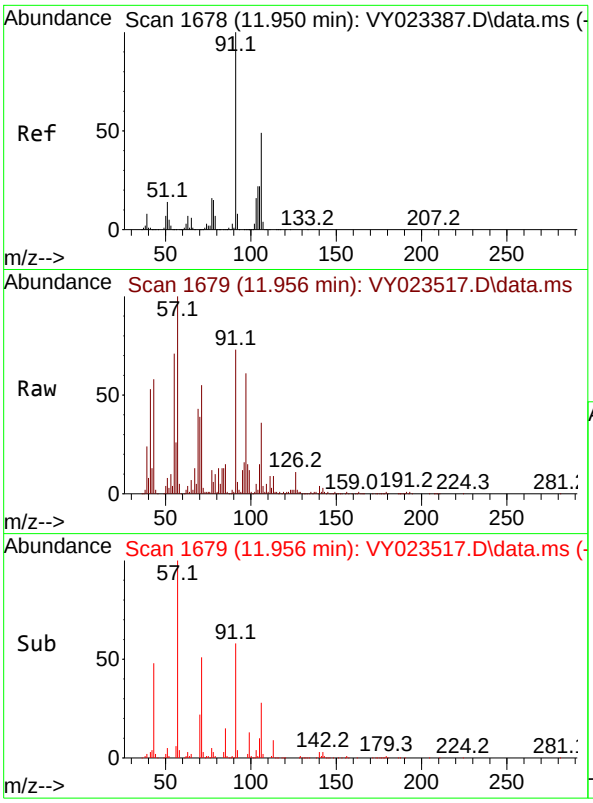


#68
m/p-Xylenes
Concen: 5.226 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion:106 Resp: 75435

Ion	Ratio	Lower	Upper
106	100		
91	207.3	152.6	229.0

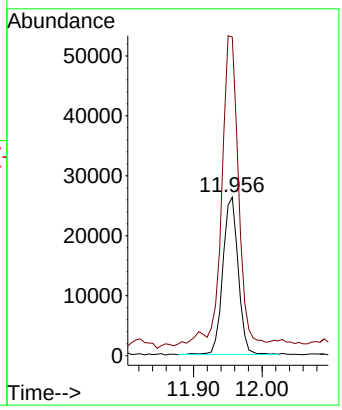




#69
o-Xylene
Concen: 3.002 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion:106 Resp: 4064

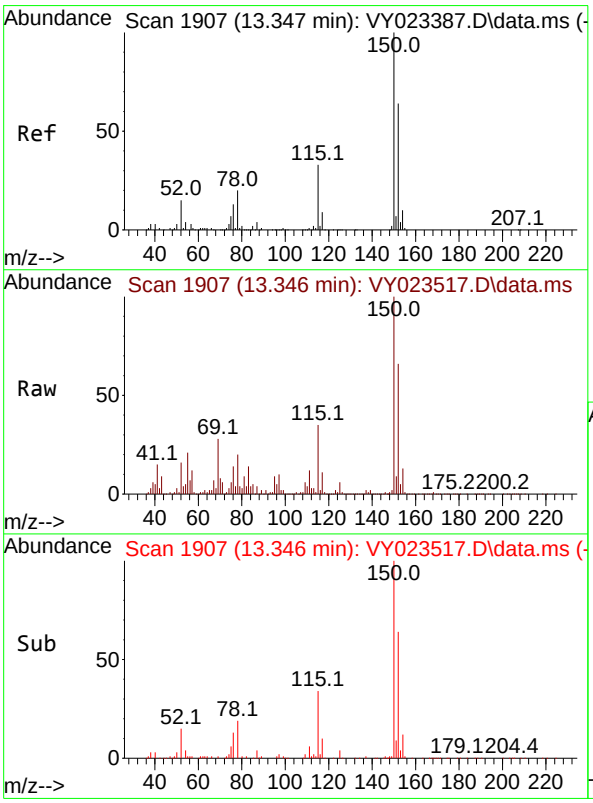
Ion	Ratio	Lower	Upper
106	100		
91	217.6	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

Manual Integrations
APPROVED

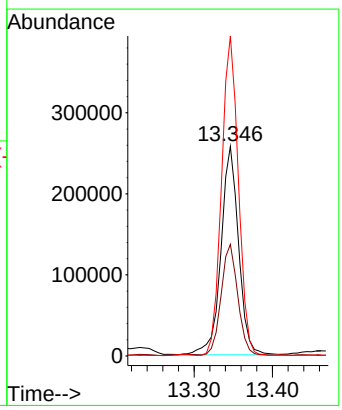
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

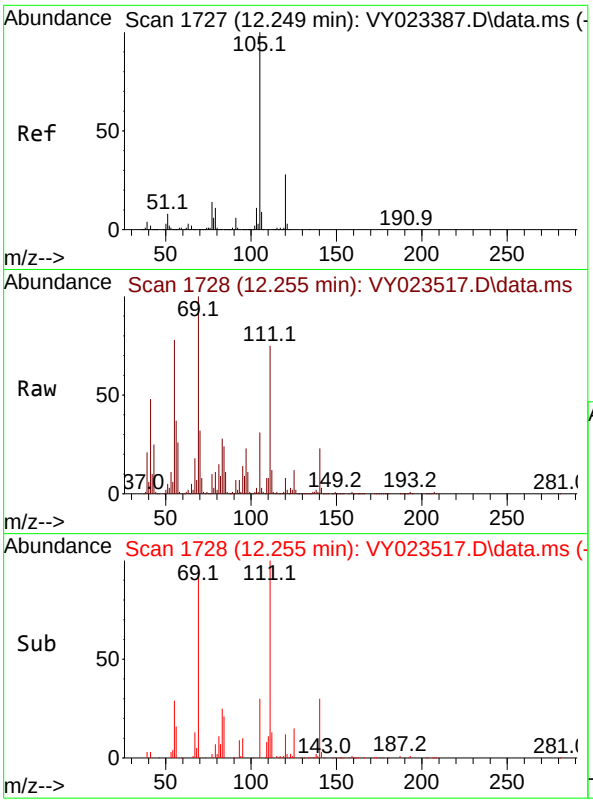


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion:152 Resp: 403478

Ion	Ratio	Lower	Upper
152	100		
115	50.3	27.1	81.2
150	145.7	0.0	347.4





#73
Isopropylbenzene
Concen: 1.886 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

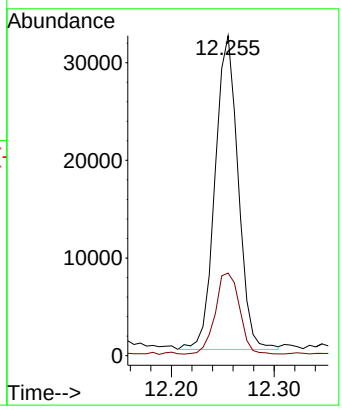
Tgt Ion:105 Resp: 5015

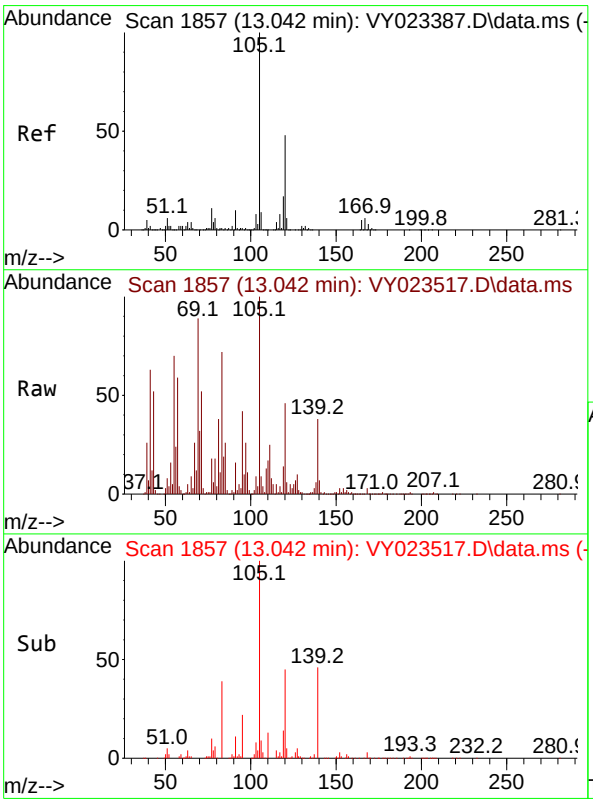
Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.9	41.7

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

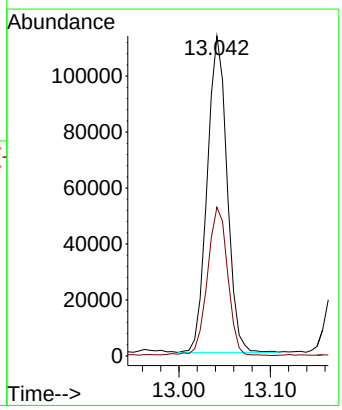




#84
1,2,4-Trimethylbenzene
Concen: 7.946 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023517.D
Acq: 20 Oct 2025 18:33

Tgt Ion:105 Resp: 170384

Ion	Ratio	Lower	Upper
105	100		
120	48.0	23.8	71.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023517.D
Acq On : 20 Oct 2025 18:33
Operator : SY/MD
Sample : Q3393-05
Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

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: VY023517.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.830	12	18	28	rVB2	99322	163537	3.19%	0.143%
2	2.202	70	79	89	rBV	131610	247450	4.83%	0.216%
3	2.842	177	184	193	rVB	119909	261909	5.11%	0.229%
4	3.184	232	240	256	rVB3	40115	105110	2.05%	0.092%
5	3.872	342	353	361	rBV	30782	89064	1.74%	0.078%
6	4.110	382	392	403	rBV	66771	184359	3.60%	0.161%
7	4.616	463	475	478	rBV4	28658	85389	1.67%	0.075%
8	4.671	479	484	492	rVB4	24847	75725	1.48%	0.066%
9	5.134	545	560	577	rBV2	59941	222594	4.35%	0.194%
10	6.591	789	799	810	rBV2	36999	118109	2.31%	0.103%
11	7.640	958	971	976	rBV	542642	1316721	25.71%	1.149%
12	7.713	976	983	991	rVV	936325	2172664	42.42%	1.896%
13	7.792	991	996	1009	rVB2	142437	378150	7.38%	0.330%
14	7.920	1009	1017	1023	rBV2	44765	104374	2.04%	0.091%
15	8.067	1032	1041	1053	rBV2	460270	1104597	21.57%	0.964%
16	8.195	1054	1062	1064	rVV2	67770	139088	2.72%	0.121%
17	8.250	1064	1071	1081	rVV	418710	1090500	21.29%	0.952%
18	8.341	1081	1086	1100	rVV2	67774	195814	3.82%	0.171%
19	8.615	1122	1131	1146	rBV	1403516	2815793	54.98%	2.457%
20	8.853	1163	1170	1177	rBV	179098	388128	7.58%	0.339%
21	8.926	1178	1182	1191	rVB2	32213	71130	1.39%	0.062%
22	9.115	1199	1213	1218	rBV4	403675	1145248	22.36%	0.999%
23	9.170	1218	1222	1229	rVB	271219	493900	9.64%	0.431%
24	9.256	1229	1236	1239	rBV3	38413	83127	1.62%	0.073%
25	9.304	1239	1244	1249	rVV4	43542	105284	2.06%	0.092%
26	9.390	1249	1258	1265	rVB2	185565	449571	8.78%	0.392%
27	9.542	1276	1283	1290	rVV2	458099	894749	17.47%	0.781%
28	9.676	1295	1305	1311	rVV3	427268	994520	19.42%	0.868%
29	9.731	1311	1314	1320	rVV4	132200	273064	5.33%	0.238%
30	9.865	1329	1336	1342	rBV2	172421	377611	7.37%	0.330%
31	9.926	1342	1346	1352	rVB3	47485	101613	1.98%	0.089%
32	9.993	1352	1357	1360	rBV4	65011	131462	2.57%	0.115%
33	10.042	1360	1365	1370	rVV	448260	805730	15.73%	0.703%
34	10.109	1370	1376	1388	rVV	2382007	4203167	82.07%	3.668%
35	10.231	1389	1396	1399	rVV3	65051	128095	2.50%	0.112%
36	10.274	1399	1403	1414	rVB5	162336	516495	10.09%	0.451%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023517.D
Acq On : 20 Oct 2025 18:33
Operator : SY/MD
Sample : Q3393-05
Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

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

37	10.408	1420	1425	1429	rBV2	146302	245625	4.80%	0.214%
38	10.451	1429	1432	1436	rVB2	129880	185057	3.61%	0.161%
39	10.548	1441	1448	1449	rBV4	179102	322855	6.30%	0.282%
40	10.640	1459	1463	1468	rVB3	192739	305701	5.97%	0.267%
41	10.731	1472	1478	1484	rVB	771655	1222680	23.87%	1.067%
42	10.835	1484	1495	1502	rBV	602887	1423212	27.79%	1.242%
43	10.902	1502	1506	1509	rBV2	148034	244158	4.77%	0.213%
44	10.963	1513	1516	1520	rVV	155990	217055	4.24%	0.189%
45	11.017	1520	1525	1530	rVV2	939010	1557993	30.42%	1.360%
46	11.072	1530	1534	1538	rVB	262747	353557	6.90%	0.309%
47	11.127	1538	1543	1548	rVB4	282042	504801	9.86%	0.440%
48	11.219	1548	1558	1568	rVB7	402644	1653441	32.29%	1.443%
49	11.310	1568	1573	1576	rBV	227237	421218	8.22%	0.368%
50	11.341	1576	1578	1582	rVB5	91941	116973	2.28%	0.102%
51	11.414	1584	1590	1600	rBV	1845192	3235675	63.18%	2.823%
52	11.517	1600	1607	1610	rBV2	166682	355772	6.95%	0.310%
53	11.554	1610	1613	1617	rVB	214607	288363	5.63%	0.252%
54	11.615	1617	1623	1627	rBV3	496038	1192067	23.28%	1.040%
55	11.664	1628	1631	1636	rVB3	414599	635370	12.41%	0.554%
56	11.767	1643	1648	1651	rBV4	290871	539828	10.54%	0.471%
57	11.810	1651	1655	1660	rVV4	229551	480662	9.39%	0.419%
58	11.865	1660	1664	1667	rVV3	371241	536375	10.47%	0.468%
59	11.932	1667	1675	1681	rBV5	1217754	3132771	61.17%	2.734%
60	11.981	1681	1683	1686	rVV	232089	274800	5.37%	0.240%
61	12.017	1686	1689	1690	rVV2	287593	332898	6.50%	0.290%
62	12.048	1690	1694	1698	rVB	1845299	2543608	49.67%	2.220%
63	12.090	1698	1701	1702	rBV2	121535	128842	2.52%	0.112%
64	12.127	1702	1707	1709	rBV3	1046997	1689097	32.98%	1.474%
65	12.158	1709	1712	1718	rVB	1974860	3094245	60.42%	2.700%
66	12.243	1718	1726	1730	rBV8	530095	1327444	25.92%	1.158%
67	12.304	1730	1736	1747	rVB6	730929	2159714	42.17%	1.885%
68	12.407	1747	1753	1759	rVB4	1830989	3490113	68.15%	3.045%
69	12.499	1759	1768	1772	rBV5	696391	1695819	33.11%	1.480%
70	12.566	1772	1779	1786	rVB3	1643852	3776245	73.73%	3.295%
71	12.651	1786	1793	1799	rBV6	942477	2690260	52.53%	2.348%
72	12.737	1799	1807	1810	rBV3	1026930	2746310	53.62%	2.396%
73	12.853	1820	1826	1833	rBV	2224234	4913282	95.94%	4.287%
74	12.920	1833	1837	1841	rVV	3222408	5121376	100.00%	4.469%
75	12.962	1841	1844	1852	rVB	2062274	3673445	71.73%	3.205%
76	13.090	1861	1865	1871	rBV2	935986	1826149	35.66%	1.594%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023517.D
Acq On : 20 Oct 2025 18:33
Operator : SY/MD
Sample : Q3393-05
Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

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

77	13.145	1871	1874	1876	rVV	378216	412543	8.06%	0.360%
78	13.206	1880	1884	1888	rBV3	944042	1487074	29.04%	1.298%
79	13.279	1893	1896	1900	rVV4	724541	1161934	22.69%	1.014%
80	13.346	1903	1907	1912	rVV	1292410	2286276	44.64%	1.995%
81	13.395	1913	1915	1925	rVB3	556328	1134842	22.16%	0.990%
82	13.487	1926	1930	1934	rBV3	808833	1168413	22.81%	1.020%
83	13.663	1954	1959	1964	rBV4	1338455	2489243	48.60%	2.172%
84	13.834	1984	1987	1993	rBV5	459908	1077445	21.04%	0.940%
85	13.889	1993	1996	2000	rVB5	700240	997735	19.48%	0.871%
86	13.999	2009	2014	2018	rBV2	691481	1052834	20.56%	0.919%
87	14.066	2019	2025	2030	rVB4	666843	1389225	27.13%	1.212%
88	14.121	2031	2034	2037	rBV4	238379	341006	6.66%	0.298%
89	14.175	2038	2043	2050	rBV9	1220444	2833392	55.32%	2.472%
90	14.303	2060	2064	2066	rBV3	452738	672021	13.12%	0.586%
91	14.340	2066	2070	2074	rVB3	1021297	1461230	28.53%	1.275%
92	14.535	2099	2102	2106	rBV5	245399	359604	7.02%	0.314%
93	14.602	2108	2113	2116	rVV3	739694	1444456	28.20%	1.260%
94	14.645	2116	2120	2127	rVB2	1632444	2658853	51.92%	2.320%
95	14.761	2137	2139	2142	rBV2	241448	310742	6.07%	0.271%
96	14.858	2152	2155	2159	rVB3	531125	708100	13.83%	0.618%
97	15.120	2194	2198	2204	rBV	1051338	1703772	33.27%	1.487%
98	15.504	2257	2261	2267	rVB3	806100	1459068	28.49%	1.273%
99	16.047	2346	2350	2356	rVB2	419018	701163	13.69%	0.612%
100	16.364	2396	2402	2416	rVB	991155	2599932	50.77%	2.269%

Sum of corrected areas: 114599600

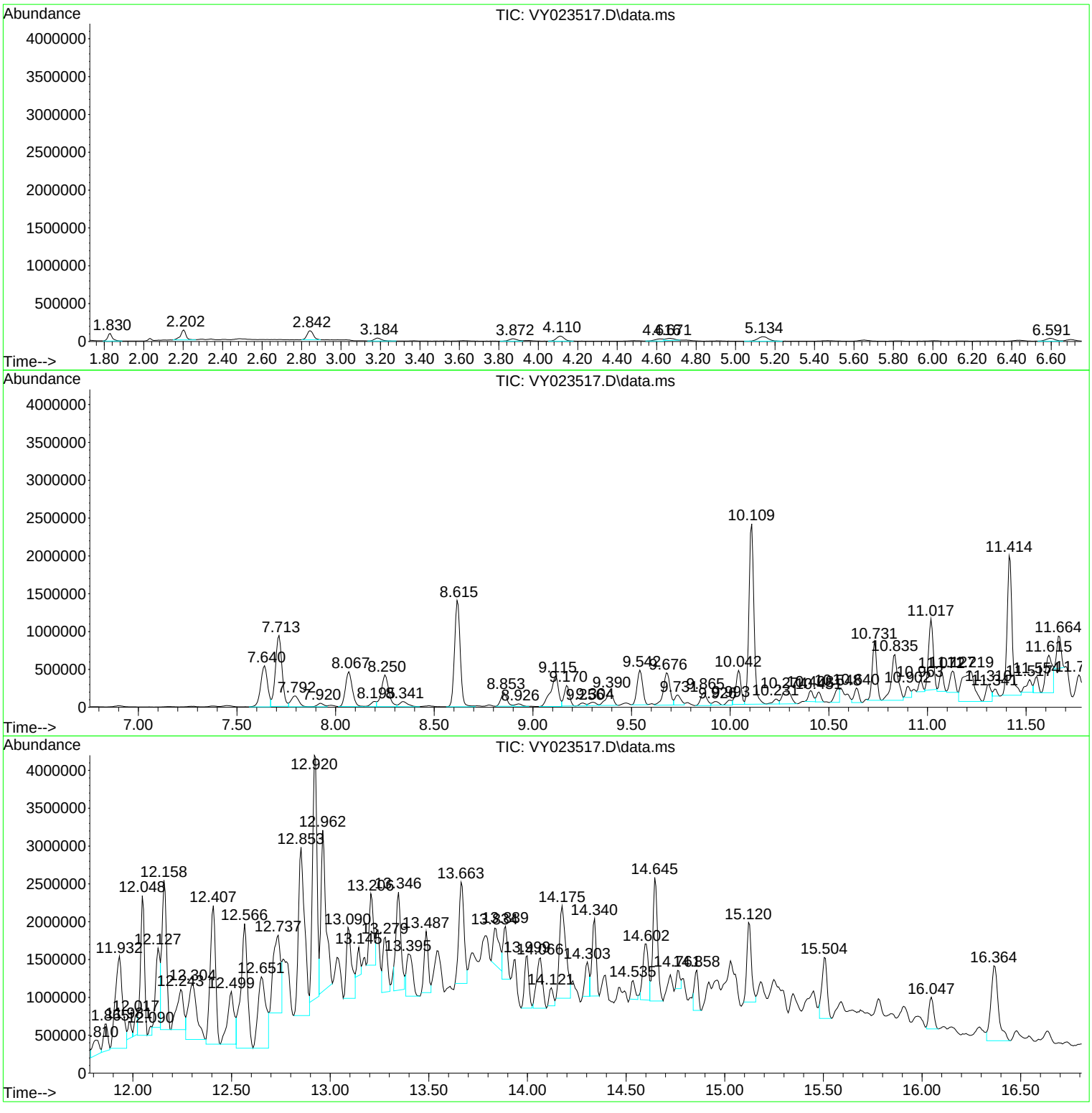
Sample Results: **VY023517.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023517.D
Acq On : 20 Oct 2025 18:33
Operator : SY/MD
Sample : Q3393-05
Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

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\VY102025\
Data File : VY023517.D
Acq On : 20 Oct 2025 18:33
Operator : SY/MD
Sample : Q3393-05
Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

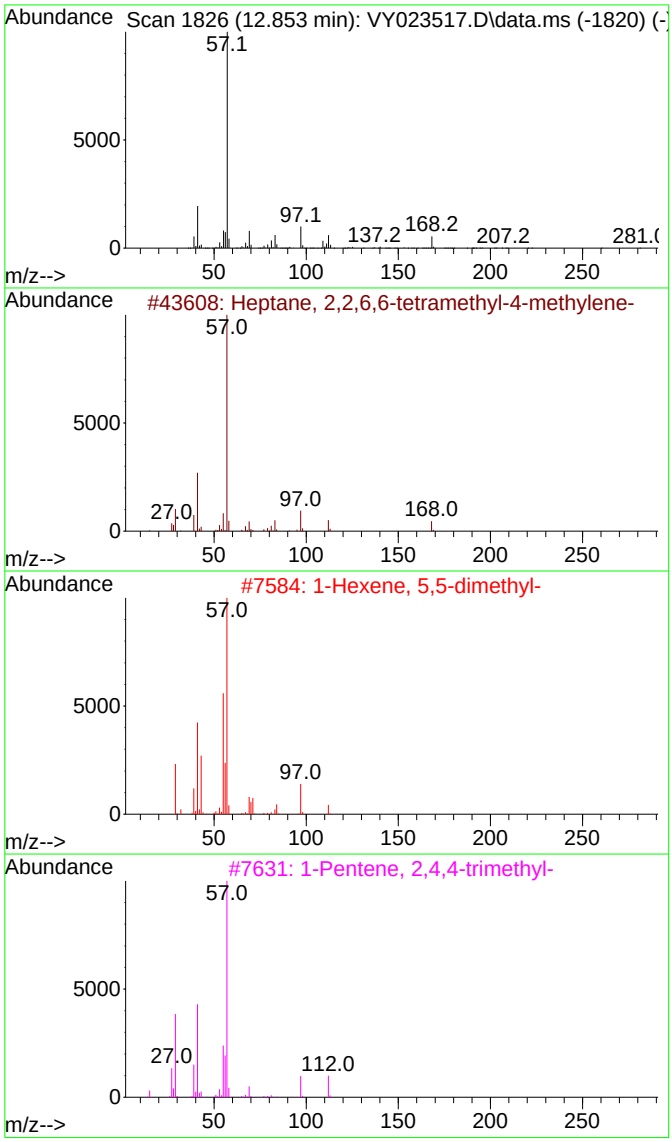
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

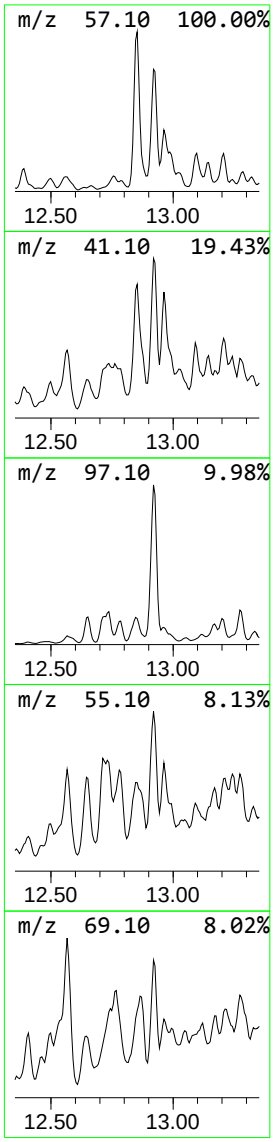
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Heptane, 2,2,6,6-tetramethy... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.852	107.45 ug/l	4913280	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptane, 2,2,6,6-tetramethyl-4-m...	168	C12H24	000141-70-8	87
2	1-Hexene, 5,5-dimethyl-	112	C8H16	007116-86-1	50
3	1-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-39-1	47
4	4-Decene, 2,2-dimethyl-, (E)-	168	C12H24	055534-69-5	40
5	Sulfone, 2-hydroxyoctyl t-butyl	250	C12H26O3S	1000161-82-7	40





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023517.D
Acq On : 20 Oct 2025 18:33
Operator : SY/MD
Sample : Q3393-05
Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

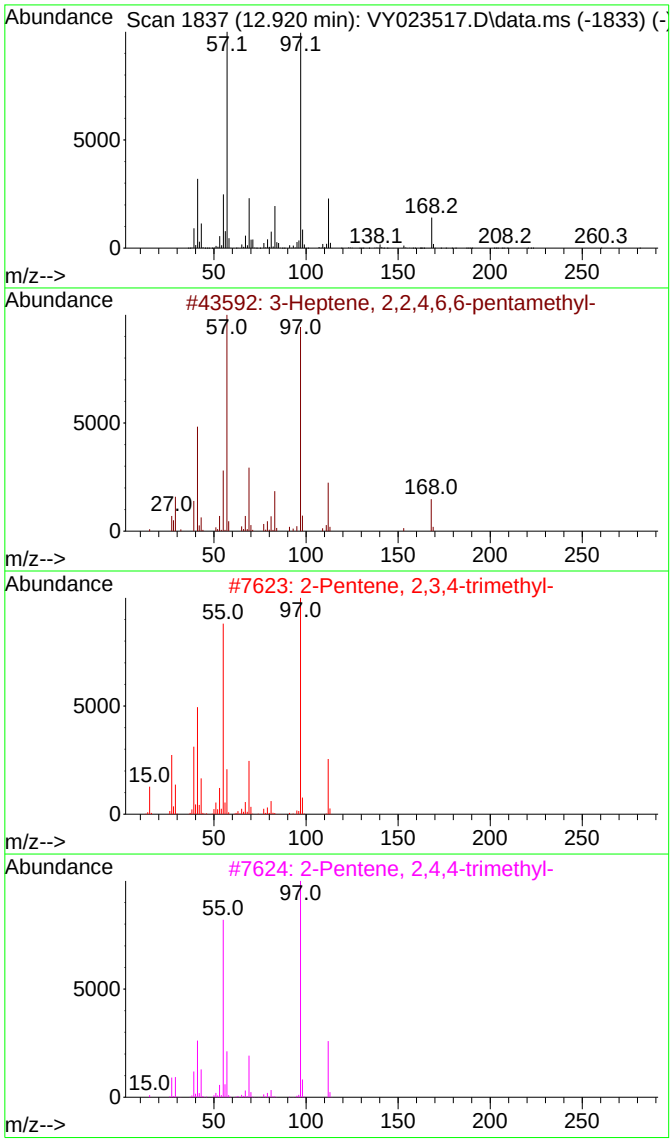
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

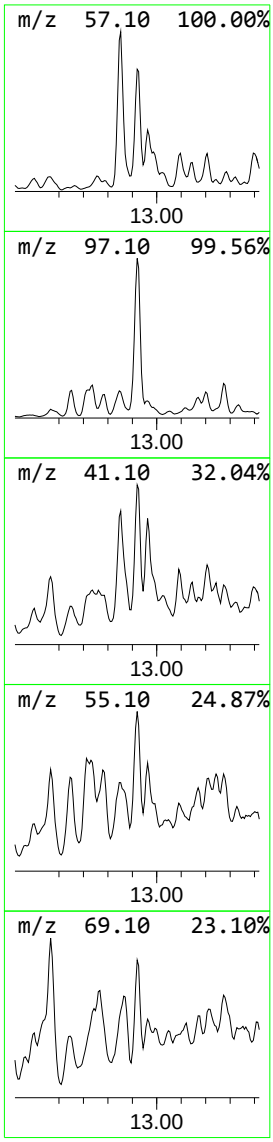
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 3-Heptene, 2,2,4,6,6-pentam... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.920	112.00 ug/l	5121380	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Heptene, 2,2,4,6,6-pentamethyl-	168	C12H24	000123-48-8	95
2	2-Pentene, 2,3,4-trimethyl-	112	C8H16	000565-77-5	58
3	2-Pentene, 2,4,4-trimethyl-	112	C8H16	000107-40-4	52
4	Cyclohexane, 1,3-dimethyl-, cis-	112	C8H16	000638-04-0	52
5	Cyclohexane, 1,3-dimethyl-	112	C8H16	000591-21-9	52





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023517.D
Acq On : 20 Oct 2025 18:33
Operator : SY/MD
Sample : Q3393-05
Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

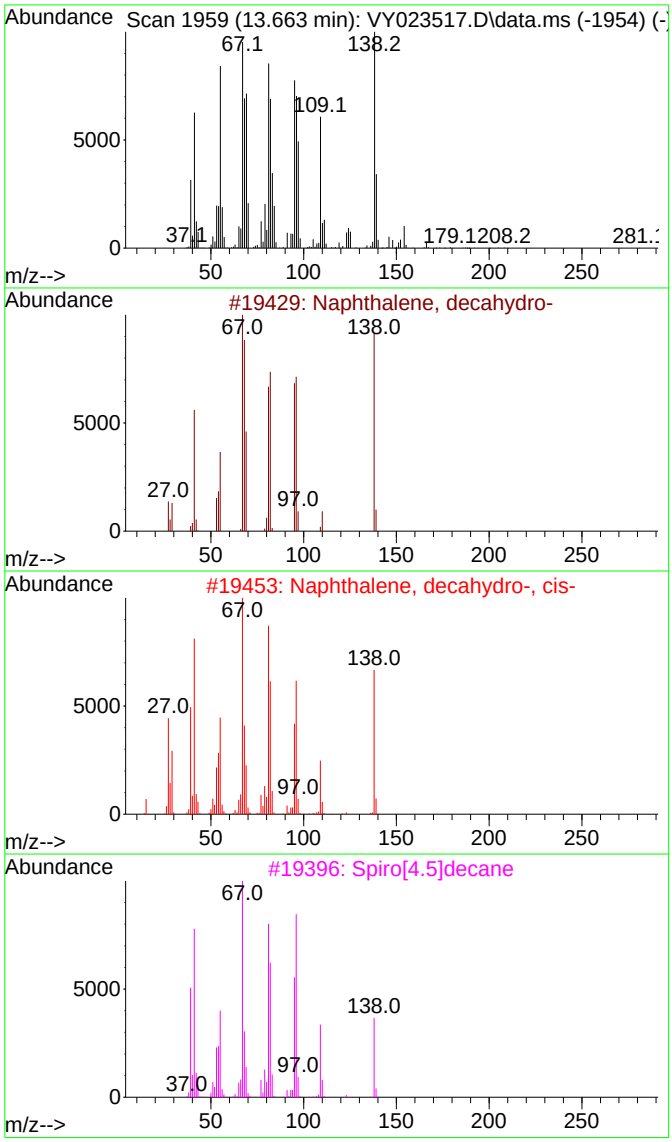
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

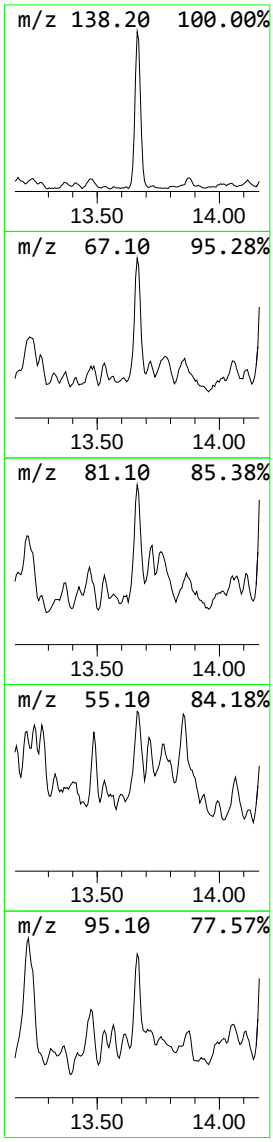
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Naphthalene, decahydro- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.663	54.44 ug/l	2489240	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-	138	C10H18	000091-17-8	91
2	Naphthalene, decahydro-, cis-	138	C10H18	000493-01-6	76
3	Spiro[4.5]decane	138	C10H18	000176-63-6	74
4	Bicyclo[4.1.0]heptane, 3,7,7-tri...	138	C10H18	018968-23-5	70
5	Naphthalene, decahydro-, trans-	138	C10H18	000493-02-7	64





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023517.D
Acq On : 20 Oct 2025 18:33
Operator : SY/MD
Sample : Q3393-05
Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

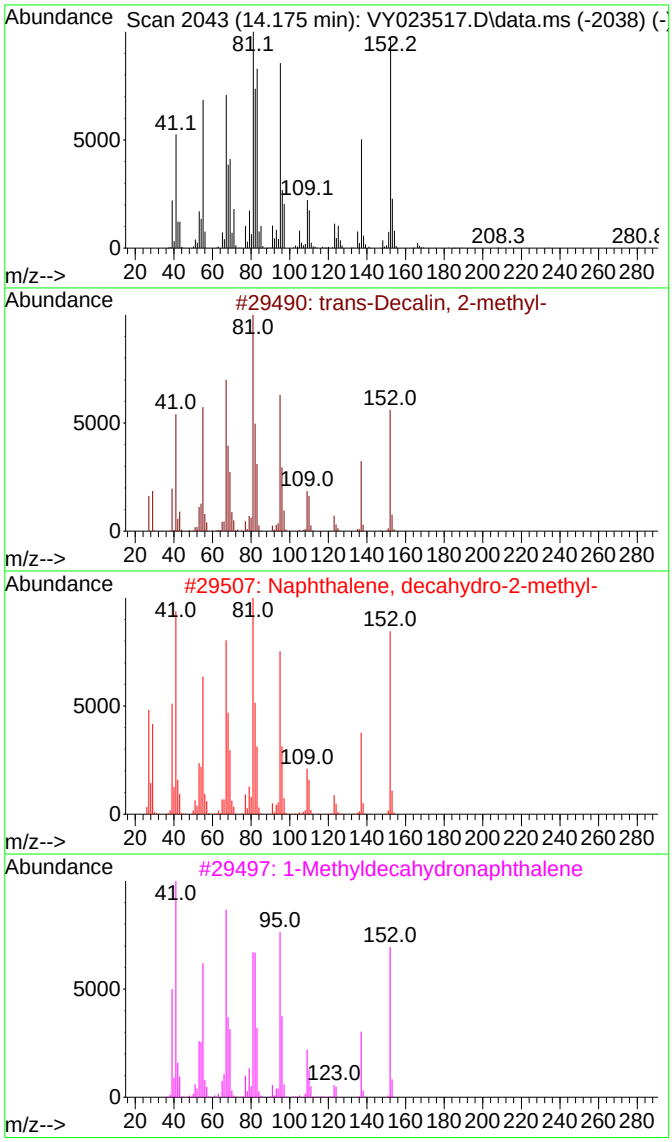
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

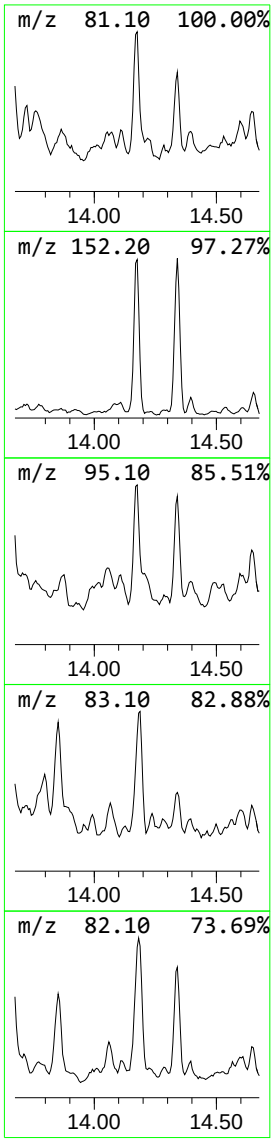
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 8 trans-Decalin, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.176	61.97 ug/l	2833390	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	93
2	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	76
3	1-Methyldecahydronaphthalene	152	C11H20	002958-75-0	55
4	Bicyclo[3.3.2]decan-9-one	152	C10H16O	028054-91-3	52
5	Diisopropylaminoacrylonitryl	152	C9H16N2	038691-28-0	46





Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023517.D
Acq On : 20 Oct 2025 18:33
Operator : SY/MD
Sample : Q3393-05
Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

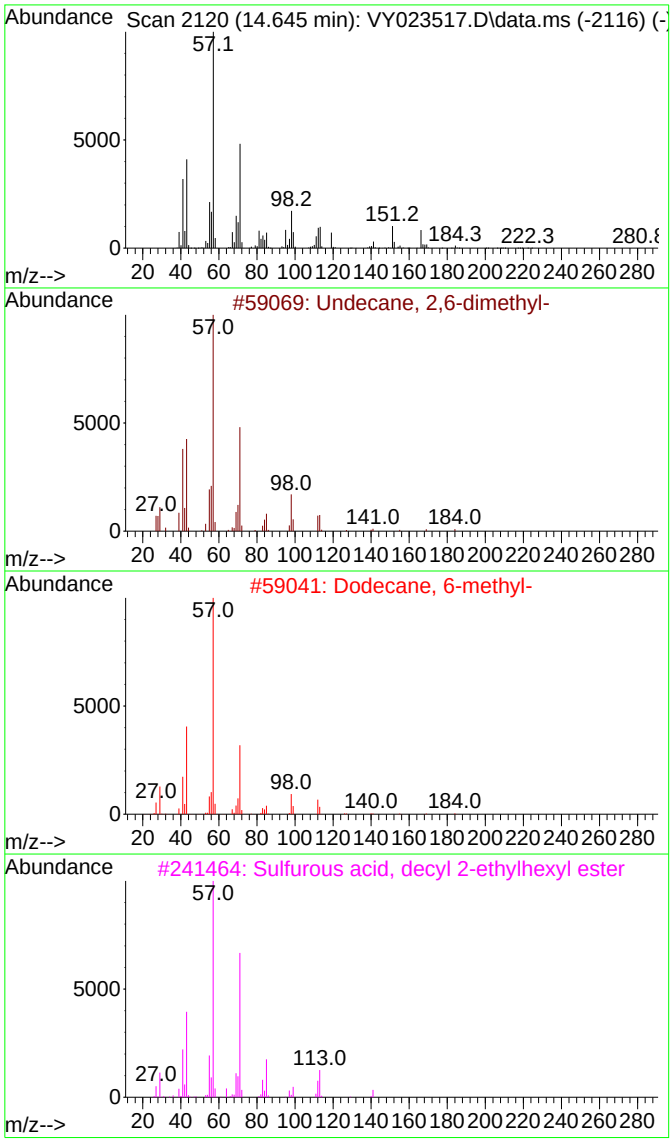
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260

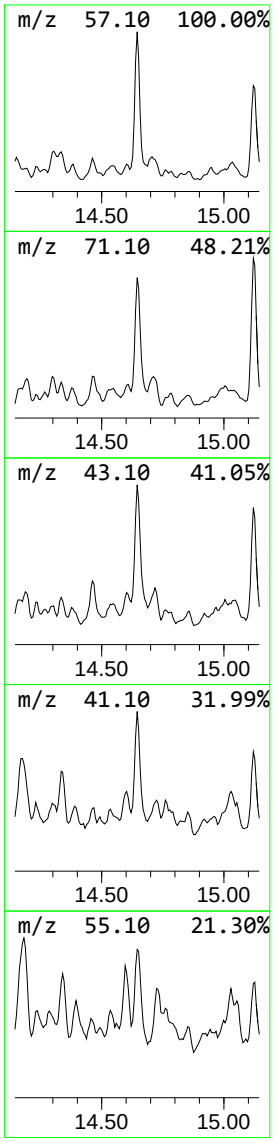
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 9 Undecane, 2,6-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.645	58.15 ug/l	2658850	1,4-Dichlorobenzene-d4	13.346

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	95
2	Dodecane, 6-methyl-	184	C13H28	006044-71-9	60
3	Sulfurous acid, decyl 2-ethylhex...	334	C18H38O3S	1000309-19-3	58
4	Sulfurous acid, butyl octyl ester	250	C12H26O3S	1000309-17-5	53
5	Undecane, 2,5-dimethyl-	184	C13H28	017301-22-3	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023517.D
Acq On : 20 Oct 2025 18:33
Operator : SY/MD
Sample : Q3393-05
Misc : 3.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
PR132-S08-000013-20251017

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
Heptane, 2,2,6,...	12.852	107.5	ug/l	4913280	4	13.346	2286280	50.0
3-Heptene, 2,2,...	12.920	112.0	ug/l	5121380	4	13.346	2286280	50.0
Naphthalene, de...	13.663	54.4	ug/l	2489240	4	13.346	2286280	50.0
trans-Decalin, ...	14.176	62.0	ug/l	2833390	4	13.346	2286280	50.0
Undecane, 2,6-d...	14.645	58.1	ug/l	2658850	4	13.346	2286280	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: AECO02

Lab Code: ACE SDG No.: Q3393

Instrument ID: MSVOA_W Calibration Date(s): 10/01/2025 10/01/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:12 15:20

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

LAB FILE ID: RRF005 = VW032313.D RRF010 = VW032314.D RRF020 = VW032315.D
RRF050 = VW032316.D RRF100 = VW032317.D RRF150 = VW032318.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.347	0.343	0.345	0.264	0.284	0.299	0.314	11.5
Chloromethane	0.532	0.527	0.516	0.418	0.450	0.463	0.484	9.7
Vinyl Chloride	0.625	0.636	0.606	0.529	0.533	0.538	0.578	8.6
Bromomethane	0.483	0.472	0.435	0.382	0.391	0.386	0.425	10.6
Chloroethane	0.405	0.409	0.394	0.356	0.365	0.361	0.382	6.3
Trichlorofluoromethane	0.426	0.453	0.430	0.418	0.422	0.447	0.433	3.3
1,1,2-Trichlorotrifluoroethane	0.609	0.569	0.524	0.465	0.469	0.478	0.519	11.5
1,1-Dichloroethene	0.588	0.608	0.595	0.521	0.534	0.535	0.564	6.7
Acetone	0.235	0.230	0.209	0.183	0.174	0.181	0.202	13.1
Carbon Disulfide	1.581	1.583	1.581	1.442	1.517	1.521	1.538	3.7
Methyl tert-butyl Ether	1.087	1.161	1.150	1.069	1.094	1.099	1.110	3.3
Methyl Acetate	0.478	0.597	0.612	0.624	0.567	0.592	0.578	9.1
Methylene Chloride	1.280	1.052	0.811	0.631	0.630	0.625	0.838	32.6
trans-1,2-Dichloroethene	0.649	0.640	0.636	0.589	0.613	0.617	0.624	3.6
1,1-Dichloroethane	1.238	1.261	1.244	1.132	1.169	1.172	1.203	4.3
Cyclohexane	1.228	1.108	1.042	0.911	0.931	0.939	1.027	12.1
2-Butanone	0.271	0.293	0.286	0.262	0.262	0.277	0.275	4.6
Carbon Tetrachloride	0.446	0.441	0.427	0.403	0.434	0.429	0.430	3.5
cis-1,2-Dichloroethene	0.768	0.763	0.766	0.716	0.740	0.744	0.749	2.7
Bromochloromethane	0.566	0.588	0.583	0.547	0.553	0.557	0.566	2.9
Chloroform	1.257	1.275	1.271	1.146	1.191	1.178	1.220	4.5
1,1,1-Trichloroethane	0.906	0.910	0.896	0.816	0.835	0.822	0.864	5.1
Methylcyclohexane	0.585	0.542	0.529	0.521	0.568	0.561	0.551	4.5
Benzene	1.518	1.494	1.440	1.345	1.424	1.373	1.432	4.7
1,2-Dichloroethane	0.487	0.497	0.472	0.442	0.461	0.453	0.469	4.4
Trichloroethene	0.354	0.348	0.330	0.312	0.339	0.329	0.335	4.5
1,2-Dichloropropane	0.370	0.371	0.363	0.341	0.355	0.346	0.358	3.4
Bromodichloromethane	0.507	0.517	0.500	0.480	0.513	0.500	0.503	2.6
4-Methyl-2-Pentanone	0.289	0.325	0.318	0.312	0.314	0.317	0.313	3.9
Toluene	0.909	0.905	0.897	0.857	0.908	0.876	0.892	2.4

* 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: AECO02

Lab Code: ACE SDG No.: Q3393

Instrument ID: MSVOA_W Calibration Date(s): 10/01/2025 10/01/2025

Heated Purge: (Y/N) Y Calibration Time(s): 13:12 15:20

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

LAB FILE ID: RRF005 = VW032313.D RRF010 = VW032314.D RRF020 = VW032315.D
RRF050 = VW032316.D RRF100 = VW032317.D RRF150 = VW032318.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.451	0.482	0.469	0.478	0.525	0.523	0.488	6.1
cis-1,3-Dichloropropene	0.531	0.571	0.550	0.544	0.591	0.584	0.562	4.2
1,1,2-Trichloroethane	0.304	0.307	0.295	0.280	0.293	0.285	0.294	3.6
2-Hexanone	0.202	0.225	0.226	0.219	0.223	0.228	0.220	4.4
Dibromochloromethane	0.317	0.327	0.334	0.326	0.355	0.343	0.334	4
1,2-Dibromoethane	0.286	0.295	0.288	0.278	0.285	0.287	0.287	2
Tetrachloroethene	0.327	0.325	0.299	0.278	0.287	0.279	0.299	7.3
Chlorobenzene	1.159	1.140	1.109	1.028	1.094	1.070	1.100	4.3
Ethyl Benzene	1.822	1.861	1.843	1.734	1.897	1.845	1.834	3
m/p-Xylenes	0.704	0.720	0.715	0.668	0.730	0.705	0.707	3
o-Xylene	0.632	0.665	0.653	0.637	0.701	0.678	0.661	3.9
Styrene	1.090	1.143	1.199	1.124	1.186	1.186	1.155	3.7
Bromoform	0.179	0.207	0.192	0.189	0.202	0.209	0.196	6
Isopropylbenzene	3.316	3.159	3.364	3.327	3.645	3.714	3.421	6.2
1,1,2,2-Tetrachloroethane	0.867	0.867	0.851	0.808	0.833	0.869	0.849	2.9
1,3-Dichlorobenzene	1.765	1.650	1.625	1.600	1.658	1.722	1.670	3.7
1,4-Dichlorobenzene	1.839	1.673	1.700	1.548	1.661	1.597	1.670	6
1,2-Dichlorobenzene	1.541	1.549	1.557	1.402	1.467	1.540	1.509	4.1
1,2-Dibromo-3-Chloropropane	0.146	0.144	0.150	0.146	0.147	0.160	0.149	3.8
1,2,4-Trichlorobenzene	0.956	0.842	0.865	0.833	0.938	0.997	0.905	7.5
1,2,3-Trichlorobenzene	0.893	0.818	0.839	0.810	0.864	0.895	0.853	4.3
1,2-Dichloroethane-d4	0.738	0.758	0.765	0.695	0.714	0.706	0.729	4
Dibromofluoromethane	0.331	0.335	0.327	0.306	0.331	0.311	0.324	3.8
Toluene-d8	1.182	1.204	1.166	1.193	1.231	1.194	1.195	1.8
4-Bromofluorobenzene	0.472	0.449	0.436	0.448	0.459	0.446	0.452	2.8

* 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_W

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
Method File : 82W100125S.M
Title : SW846 8260
Last Update : Thu Oct 02 21:24:16 2025
Response Via : Initial Calibration

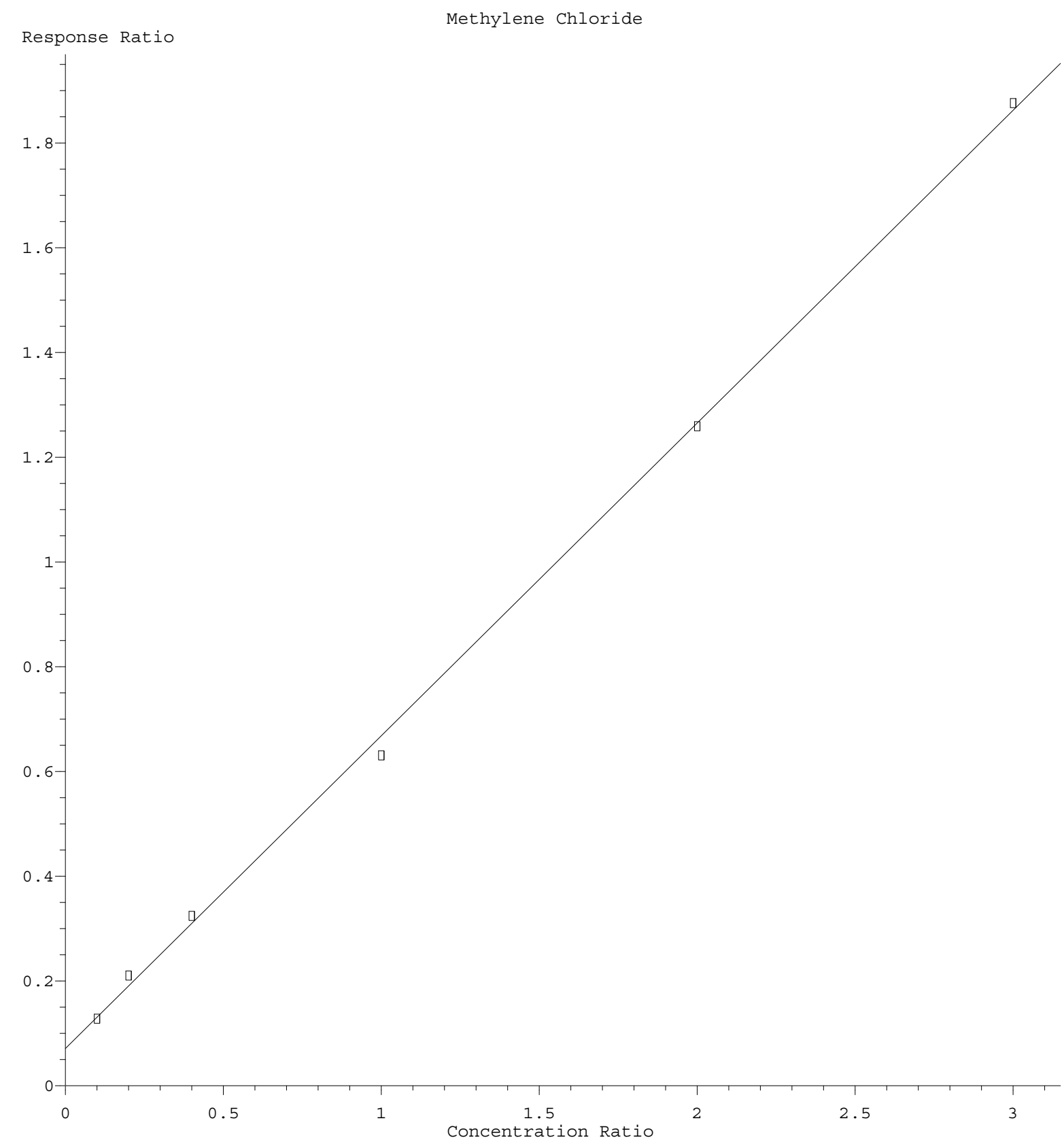
Calibration Files
5 =VW032313.D 10 =VW032314.D 20 =VW032315.D 50 =VW032316.D 100 =VW032317.D 150 =VW032318.D

		Compound	5	10	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.347	0.343	0.345	0.264	0.284	0.299	0.314	11.52
3)	P	Chloromethane	0.532	0.527	0.516	0.418	0.450	0.463	0.484	9.72
4)	C	Vinyl Chloride	0.625	0.636	0.606	0.529	0.533	0.538	0.578	8.63#
5)	T	Bromomethane	0.483	0.472	0.435	0.382	0.391	0.386	0.425	10.61
6)	T	Chloroethane	0.405	0.409	0.394	0.356	0.365	0.361	0.382	6.27
7)	T	Trichlorofluor...	0.426	0.453	0.430	0.418	0.422	0.447	0.433	3.30
8)	T	Diethyl Ether	0.389	0.406	0.387	0.344	0.360	0.365	0.375	6.01
9)	T	1,1,2-Trichlor...	0.609	0.569	0.524	0.465	0.469	0.478	0.519	11.46
10)	T	Methyl Iodide	0.753	0.777	0.790	0.693	0.704	0.726	0.741	5.32
11)	T	Tert butyl alc...	0.057	0.062	0.061	0.049	0.049	0.054	0.055	10.36
12)	CM	1,1-Dichloroet...	0.588	0.608	0.595	0.521	0.534	0.535	0.564	6.68#
13)	T	Acrolein	0.091	0.098	0.102	0.080	0.083	0.084	0.090	9.91
14)	T	Allyl chloride	0.983	0.992	0.958	0.911	0.921	0.947	0.952	3.42
15)	T	Acrylonitrile	0.189	0.202	0.200	0.187	0.192	0.200	0.195	3.32
16)	T	Acetone	0.235	0.230	0.209	0.183	0.174	0.181	0.202	13.10
17)	T	Carbon Disulfide	1.581	1.583	1.581	1.442	1.517	1.521	1.538	3.65
18)	T	Methyl Acetate	0.478	0.597	0.612	0.624	0.567	0.592	0.578	9.12
19)	T	Methyl tert-bu...	1.087	1.161	1.150	1.069	1.094	1.099	1.110	3.33
20)	T	Methylene Chlo...	1.280	1.052	0.811	0.631	0.630	0.625	0.838	32.60
21)	T	trans-1,2-Dich...	0.649	0.640	0.636	0.589	0.613	0.617	0.624	3.56
22)	T	Diisopropyl ether	1.900	2.086	2.085	1.897	1.951	1.958	1.979	4.34
23)	T	Vinyl Acetate	1.247	1.325	1.375	1.256	1.349	1.380	1.322	4.40
24)	P	1,1-Dichloroet...	1.238	1.261	1.244	1.132	1.169	1.172	1.203	4.34
25)	T	2-Butanone	0.271	0.293	0.286	0.262	0.262	0.277	0.275	4.60
26)	T	2,2-Dichloropr...	0.659	0.654	0.635	0.576	0.590	0.577	0.615	6.23
27)	T	cis-1,2-Dichlo...	0.768	0.763	0.766	0.716	0.740	0.744	0.749	2.65
28)	T	Bromochloromet...	0.566	0.588	0.583	0.547	0.553	0.557	0.566	2.93
29)	T	Tetrahydrofuran	0.161	0.176	0.180	0.171	0.171	0.179	0.173	4.21
30)	C	Chloroform	1.257	1.275	1.271	1.146	1.191	1.178	1.220	4.50#
31)	T	Cyclohexane	1.228	1.108	1.042	0.911	0.931	0.939	1.027	12.15
32)	T	1,1,1-Trichlor...	0.906	0.910	0.896	0.816	0.835	0.822	0.864	5.15
33)	S	1,2-Dichloroet...	0.738	0.758	0.765	0.695	0.714	0.706	0.729	3.95
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...	0.331	0.335	0.327	0.306	0.331	0.311	0.324	3.76
36)	T	1,1-Dichloropr...	0.471	0.470	0.455	0.439	0.460	0.446	0.457	2.80
37)	T	Ethyl Acetate	0.302	0.315	0.302	0.290	0.305	0.310	0.304	2.83
38)	T	Carbon Tetrach...	0.446	0.441	0.427	0.403	0.434	0.429	0.430	3.49
39)	T	Methylcyclohexane	0.585	0.542	0.529	0.521	0.568	0.561	0.551	4.46
40)	TM	Benzene	1.518	1.494	1.440	1.345	1.424	1.373	1.432	4.66
41)	T	Methacrylonitrile	0.143	0.158	0.172	0.164	0.171	0.175	0.164	7.29
42)	TM	1,2-Dichloroet...	0.487	0.497	0.472	0.442	0.461	0.453	0.469	4.41
43)	T	Isopropyl Acetate	0.498	0.540	0.539	0.520	0.565	0.575	0.540	5.23
44)	TM	Trichloroethene	0.354	0.348	0.330	0.312	0.339	0.329	0.335	4.52
45)	C	1,2-Dichloropr...	0.370	0.371	0.363	0.341	0.355	0.346	0.358	3.44#
46)	T	Dibromomethane	0.224	0.229	0.222	0.211	0.219	0.215	0.220	2.93
47)	T	Bromodichlorom...	0.507	0.517	0.500	0.480	0.513	0.500	0.503	2.60
48)	T	Methyl methacr...	0.237	0.260	0.257	0.259	0.278	0.284	0.262	6.39
49)	T	1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	0.003	0.003	7.47
50)	S	Toluene-d8	1.182	1.204	1.166	1.193	1.231	1.194	1.195	1.82
51)	T	4-Methyl-2-Pen...	0.289	0.325	0.318	0.312	0.314	0.317	0.313	3.87
52)	CM	Toluene	0.909	0.905	0.897	0.857	0.908	0.876	0.892	2.36#
53)	T	t-1,3-Dichloro...	0.451	0.482	0.469	0.478	0.525	0.523	0.488	6.14
54)	T	cis-1,3-Dichlo...	0.531	0.571	0.550	0.544	0.591	0.584	0.562	4.22
55)	T	1,1,2-Trichlor...	0.304	0.307	0.295	0.280	0.293	0.285	0.294	3.58
56)	T	Ethyl methacry...	0.354	0.401	0.399	0.408	0.451	0.454	0.411	9.03

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
Method File : 82W100125S.M

57)	T	1,3-Dichloropr...	0.518	0.545	0.526	0.498	0.519	0.507	0.519	3.10
58)	T	2-Chloroethyl ...	0.177	0.199	0.204	0.241	0.243	0.249	0.219	13.48
59)	T	2-Hexanone	0.202	0.225	0.226	0.219	0.223	0.228	0.220	4.37
60)	T	Dibromochlorom...	0.317	0.327	0.334	0.326	0.355	0.343	0.334	4.05
61)	T	1,2-Dibromoethane	0.286	0.295	0.288	0.278	0.285	0.287	0.287	2.00
62)	S	4-Bromofluorob...	0.472	0.449	0.436	0.448	0.459	0.446	0.452	2.77
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.327	0.325	0.299	0.278	0.287	0.279	0.299	7.28
65)	PM	Chlorobenzene	1.159	1.140	1.109	1.028	1.094	1.070	1.100	4.33
66)	T	1,1,1,2-Tetrac...	0.339	0.351	0.347	0.317	0.351	0.351	0.343	3.98
67)	C	Ethyl Benzene	1.822	1.861	1.843	1.734	1.897	1.845	1.834	2.98#
68)	T	m/p-Xylenes	0.704	0.720	0.715	0.668	0.730	0.705	0.707	3.05
69)	T	o-Xylene	0.632	0.665	0.653	0.637	0.701	0.678	0.661	3.92
70)	T	Styrene	1.090	1.143	1.199	1.124	1.186	1.186	1.155	3.73
71)	P	Bromoform	0.179	0.207	0.192	0.189	0.202	0.209	0.196	5.98
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.316	3.159	3.364	3.327	3.645	3.714	3.421	6.24
74)	T	N-amyl acetate	0.964	1.027	1.080	1.063	1.169	1.245	1.091	9.24
75)	P	1,1,2,2-Tetrac...	0.867	0.867	0.851	0.808	0.833	0.869	0.849	2.88
76)	T	1,2,3-Trichlor...	0.747	0.656	0.640	0.605	0.638	0.662	0.658	7.32
77)	T	Bromobenzene	0.824	0.787	0.807	0.817	0.858	0.853	0.825	3.30
78)	T	n-propylbenzene	4.287	4.025	4.285	4.100	4.439	4.502	4.273	4.34
79)	T	2-Chlorotoluene	2.604	2.575	2.604	2.520	2.625	2.748	2.613	2.90
80)	T	1,3,5-Trimethy...	2.940	2.807	2.855	2.912	3.114	3.120	2.958	4.44
81)	T	trans-1,4-Dich...	0.211	0.235	0.244	0.268	0.293	0.307	0.260	14.03
82)	T	4-Chlorotoluene	2.847	2.743	2.778	2.650	2.810	2.839	2.778	2.65
83)	T	tert-Butylbenzene	2.385	2.347	2.389	2.357	2.551	2.534	2.427	3.74
84)	T	1,2,4-Trimethy...	2.973	2.881	3.046	2.965	3.126	3.055	3.008	2.85
85)	T	sec-Butylbenzene	3.808	3.536	3.562	3.568	3.798	3.981	3.709	4.87
86)	T	p-Isopropyltol...	3.133	2.873	3.086	3.000	3.160	3.213	3.077	4.01
87)	T	1,3-Dichlorobe...	1.765	1.650	1.625	1.600	1.658	1.722	1.670	3.71
88)	T	1,4-Dichlorobe...	1.839	1.673	1.700	1.548	1.661	1.597	1.670	5.97
89)	T	n-Butylbenzene	3.008	2.818	2.942	2.891	3.116	3.253	3.005	5.29
90)	T	Hexachloroethane	0.571	0.535	0.518	0.521	0.575	0.589	0.552	5.52
91)	T	1,2-Dichlorobe...	1.541	1.549	1.557	1.402	1.467	1.540	1.509	4.11
92)	T	1,2-Dibromo-3-...	0.146	0.144	0.150	0.146	0.147	0.160	0.149	3.78
93)	T	1,2,4-Trichlor...	0.956	0.842	0.865	0.833	0.938	0.997	0.905	7.47
94)	T	Hexachlorobuta...	0.478	0.426	0.379	0.362	0.413	0.425	0.414	9.83
95)	T	Naphthalene	1.948	1.919	2.162	2.195	2.280	2.538	2.174	10.51
96)	T	1,2,3-Trichlor...	0.893	0.818	0.839	0.810	0.864	0.895	0.853	4.34

(#) = Out of Range



Response = 5.970e-001 * Amt + 7.148e-002
Coef of Det (r^2) = 0.999066 Curve Fit: Linear
Method Name: C:\HPCHEM\1\MSRV\HPCHEM1\MSVOA W\Method\82W100125S.M
Calibration Table Last Updated: Thu Oct 02 21:24:16 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032313.D
Acq On : 01 Oct 2025 13:12
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	284753	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	526707	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	478552	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	234250	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	21010	5.059	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	10.120%#		
35) Dibromofluoromethane	7.898	113	17458	5.118	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	10.240%#		
50) Toluene-d8	10.325	98	62281	4.947	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	9.900%#		
62) 4-Bromofluorobenzene	12.617	95	24882	5.229	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	10.460%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	9893	5.537	ug/l	96
3) Chloromethane	2.253	50	15140	5.491	ug/l	96
4) Vinyl Chloride	2.399	62	17809	5.410	ug/l	98
5) Bromomethane	2.832	94	13745	5.682	ug/l	87
6) Chloroethane	2.966	64	11537	5.309	ug/l	97
7) Trichlorofluoromethane	3.302	101	12133	4.923	ug/l	100
8) Diethyl Ether	3.722	74	11070	5.183	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.112	101	17336	5.865	ug/l #	87
10) Methyl Iodide	4.320	142	21442	5.084	ug/l	98
11) Tert butyl alcohol	5.210	59	8165	25.972	ug/l	97
12) 1,1-Dichloroethene	4.082	96	16745	5.218	ug/l	90
13) Acrolein	3.936	56	12931	25.344	ug/l	97
14) Allyl chloride	4.704	41	27986	5.163	ug/l	90
15) Acrylonitrile	5.411	53	26916	24.226	ug/l	98
16) Acetone	4.167	43	33407	29.049	ug/l	100
17) Carbon Disulfide	4.423	76	45031	5.143	ug/l	100
18) Methyl Acetate	4.710	43	13618	4.134	ug/l	100
19) Methyl tert-butyl Ether	5.466	73	30951	4.897	ug/l	95
20) Methylene Chloride	4.954	84	36441	4.732	ug/l	94
21) trans-1,2-Dichloroethene	5.460	96	18485	5.203	ug/l	98
22) Diisopropyl ether	6.338	45	54095	4.799	ug/l #	87
23) Vinyl Acetate	6.289	43	177543	23.579	ug/l	100
24) 1,1-Dichloroethane	6.252	63	35264	5.149	ug/l	96
25) 2-Butanone	7.203	43	38549	24.612	ug/l	95
26) 2,2-Dichloropropane	7.191	77	18751	5.352	ug/l	97
27) cis-1,2-Dichloroethene	7.197	96	21855	5.120	ug/l	93
28) Bromochloromethane	7.533	49	16126	5.005	ug/l	87
29) Tetrahydrofuran	7.557	42	22855	23.204	ug/l	92
30) Chloroform	7.691	83	35798	5.154	ug/l	93
31) Cyclohexane	7.971	56	34981	5.983	ug/l #	87
32) 1,1,1-Trichloroethane	7.886	97	25812	5.244	ug/l	98
36) 1,1-Dichloropropene	8.093	75	24817	5.155	ug/l	98
37) Ethyl Acetate	7.276	43	15932	4.972	ug/l	96
38) Carbon Tetrachloride	8.087	117	23500	5.188	ug/l	99
39) Methylcyclohexane	9.343	83	30816	5.307	ug/l	95
40) Benzene	8.337	78	79933	5.297	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032313.D
Acq On : 01 Oct 2025 13:12
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 02 21:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	7536	4.364	ug/l		99
42) 1,2-Dichloroethane	8.417	62	25632	5.192	ug/l		97
43) Isopropyl Acetate	8.441	43	26247	4.618	ug/l		97
44) Trichloroethene	9.099	130	18643	5.277	ug/l		98
45) 1,2-Dichloropropane	9.380	63	19476	5.171	ug/l		97
46) Dibromomethane	9.471	93	11793	5.092	ug/l		96
47) Bromodichloromethane	9.654	83	26693	5.039	ug/l		92
48) Methyl methacrylate	9.441	41	12470	4.512	ug/l	#	90
49) 1,4-Dioxane	9.465	88	2732	86.306	ug/l	#	86
51) 4-Methyl-2-Pentanone	10.215	43	76240	23.157	ug/l		97
52) Toluene	10.392	92	47870	5.094	ug/l		100
53) t-1,3-Dichloropropene	10.611	75	23740	4.619	ug/l		95
54) cis-1,3-Dichloropropene	10.075	75	27985	4.727	ug/l		96
55) 1,1,2-Trichloroethane	10.788	97	16014	5.174	ug/l		93
56) Ethyl methacrylate	10.648	69	18666	4.308	ug/l		97
57) 1,3-Dichloropropane	10.934	76	27288	4.991	ug/l		98
58) 2-Chloroethyl Vinyl ether	9.928	63	46589	20.206	ug/l		95
59) 2-Hexanone	10.971	43	53126	22.879	ug/l		96
60) Dibromochloromethane	11.129	129	16674	4.744	ug/l		95
61) 1,2-Dibromoethane	11.239	107	15062	4.990	ug/l		99
64) Tetrachloroethene	10.867	164	15638	5.461	ug/l		93
65) Chlorobenzene	11.660	112	55479	5.269	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.733	131	16206	4.942	ug/l		98
67) Ethyl Benzene	11.733	91	87214	4.969	ug/l		99
68) m/p-Xylenes	11.837	106	67346	9.951	ug/l		100
69) o-Xylene	12.166	106	30267	4.782	ug/l		98
70) Styrene	12.178	104	52147	4.719	ug/l		98
71) Bromoform	12.349	173	8566	4.557	ug/l	#	99
73) Isopropylbenzene	12.465	105	77676	4.847	ug/l		100
74) N-amyl acetate	12.270	43	22577	4.416	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.715	83	20303	5.102	ug/l		98
76) 1,2,3-Trichloropropane	12.763	75	17510m	5.665	ug/l		
77) Bromobenzene	12.745	156	19313	4.999	ug/l		85
78) n-propylbenzene	12.800	91	100413	5.016	ug/l		96
79) 2-Chlorotoluene	12.891	91	61002	4.984	ug/l		97
80) 1,3,5-Trimethylbenzene	12.940	105	68864	4.969	ug/l		95
81) trans-1,4-Dichloro-2-b...	12.507	75	4939	4.059	ug/l		87
82) 4-Chlorotoluene	12.989	91	66681	5.124	ug/l		99
83) tert-Butylbenzene	13.202	119	55879	4.914	ug/l		96
84) 1,2,4-Trimethylbenzene	13.245	105	69654	4.943	ug/l		100
85) sec-Butylbenzene	13.379	105	89212	5.134	ug/l		96
86) p-Isopropyltoluene	13.495	119	73385	5.090	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	41335	5.284	ug/l		94
88) 1,4-Dichlorobenzene	13.574	146	43076	5.507	ug/l		95
89) n-Butylbenzene	13.818	91	70466	5.006	ug/l		98
90) Hexachloroethane	14.086	117	13382	5.178	ug/l		96
91) 1,2-Dichlorobenzene	13.861	146	36095	5.104	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.483	75	3424	4.914	ug/l		84
93) 1,2,4-Trichlorobenzene	15.129	180	22385	5.279	ug/l		99
94) Hexachlorobutadiene	15.232	225	11196	5.775	ug/l		96
95) Naphthalene	15.360	128	45626	4.481	ug/l		98
96) 1,2,3-Trichlorobenzene	15.543	180	20926	5.236	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032313.D
Acq On : 01 Oct 2025 13:12
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

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

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

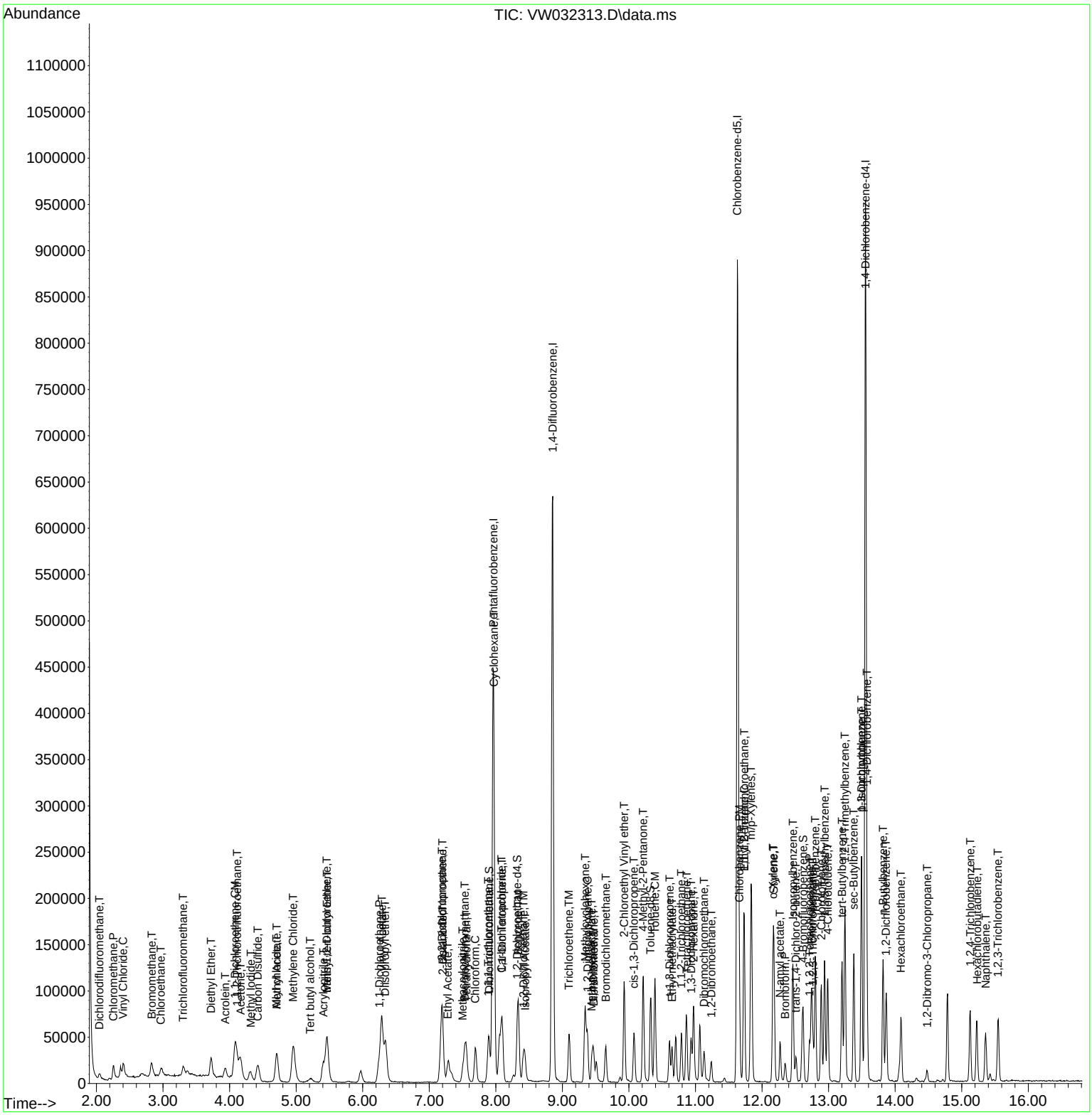
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032313.D
Acq On : 01 Oct 2025 13:12
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

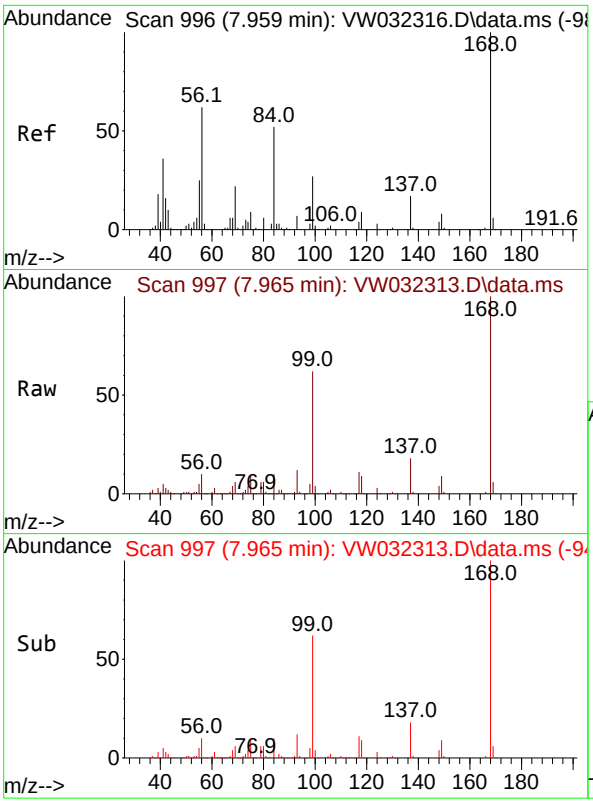
Quant Time: Oct 02 21:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

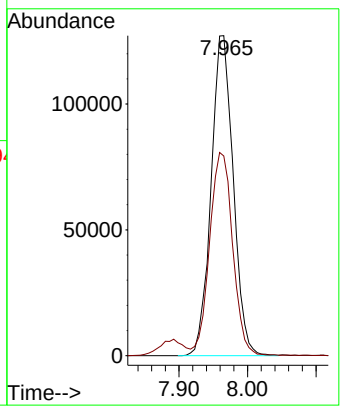




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:168 Resp: 28475

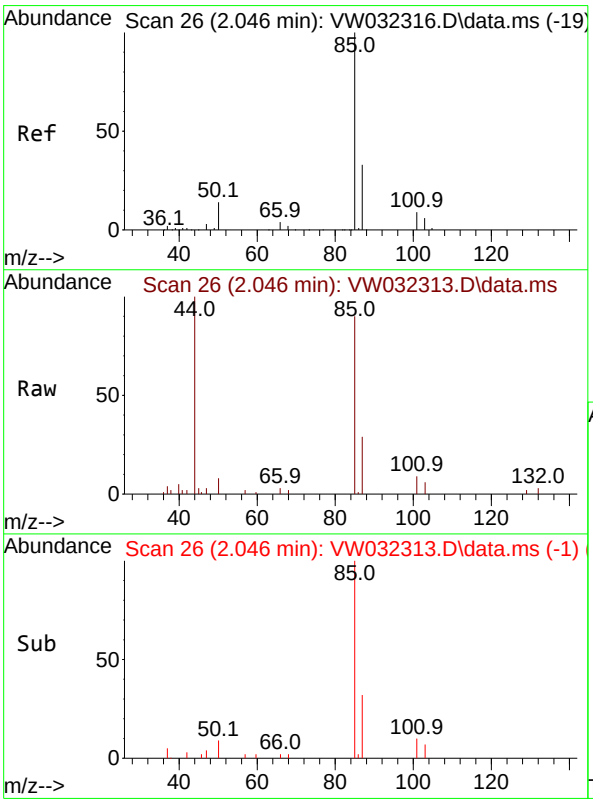
Ion	Ratio	Lower	Upper
168	100		
99	62.3	49.3	73.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

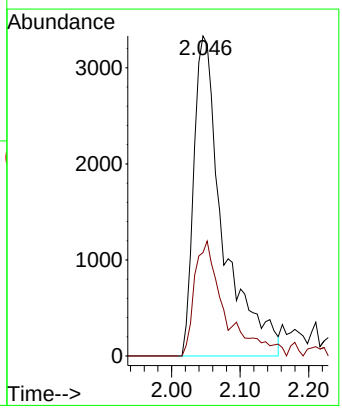
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

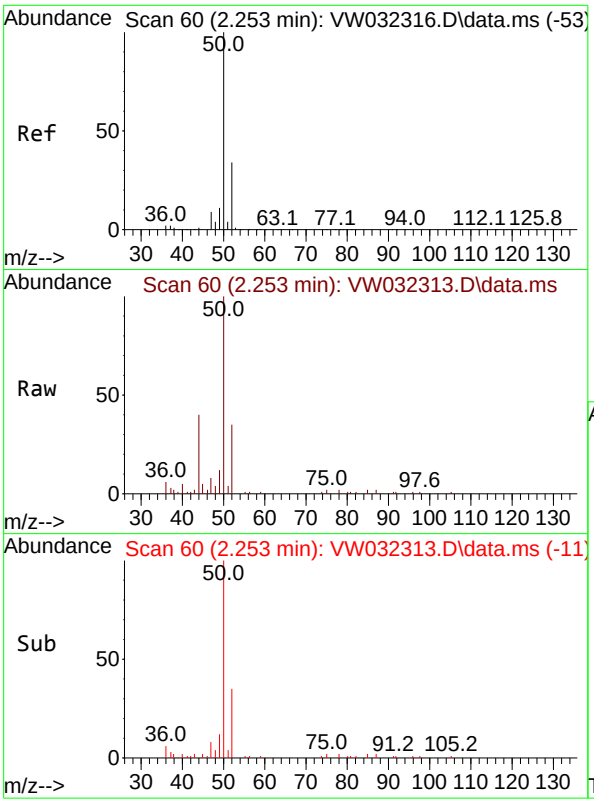


#2
Dichlorodifluoromethane
Concen: 5.537 ug/l
RT: 2.046 min Scan# 26
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 85 Resp: 9893

Ion	Ratio	Lower	Upper
85	100		
87	32.3	17.2	51.6

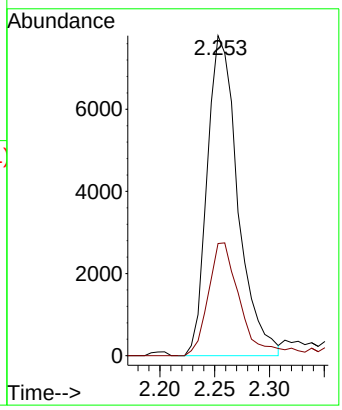




#3
Chloromethane
Concen: 5.491 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 50 Resp: 1514

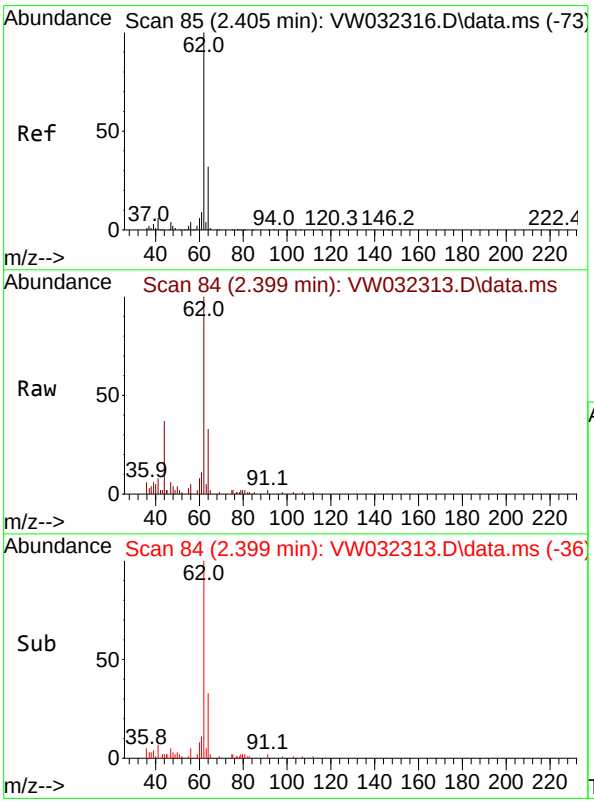
Ion	Ratio	Lower	Upper
50	100		
52	35.1	26.1	39.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

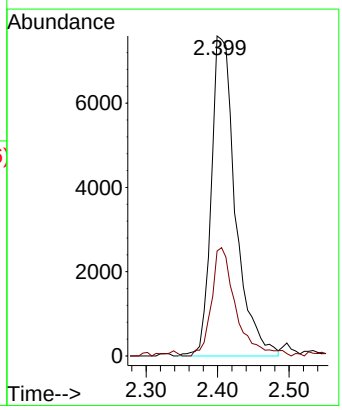
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

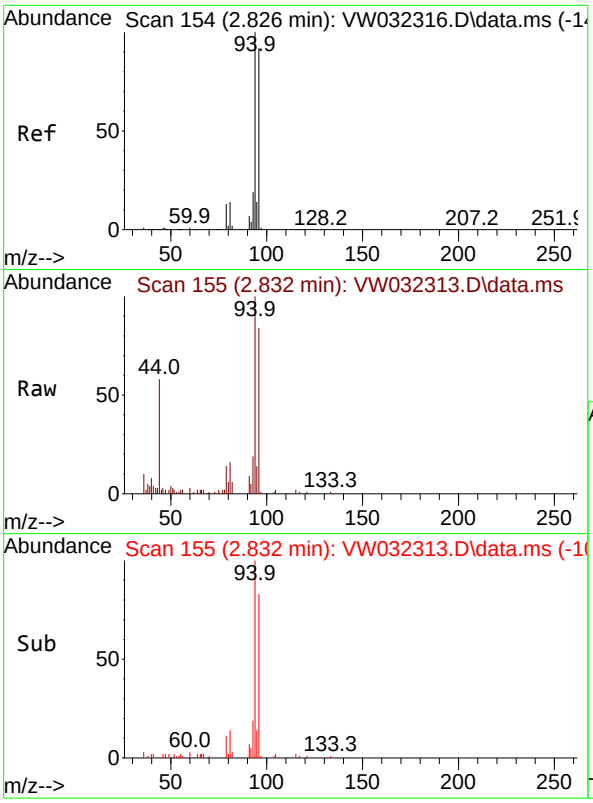


#4
Vinyl Chloride
Concen: 5.410 ug/l
RT: 2.399 min Scan# 84
Delta R.T. -0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 62 Resp: 17809

Ion	Ratio	Lower	Upper
62	100		
64	32.0	24.8	37.2

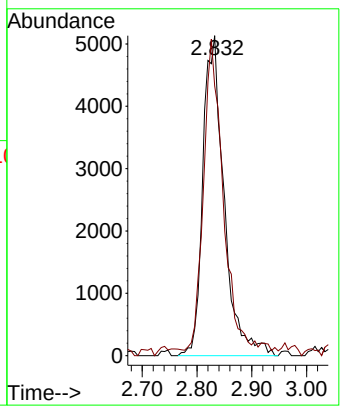




#5
Bromomethane
Concen: 5.682 ug/l
RT: 2.832 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 94 Resp: 1374

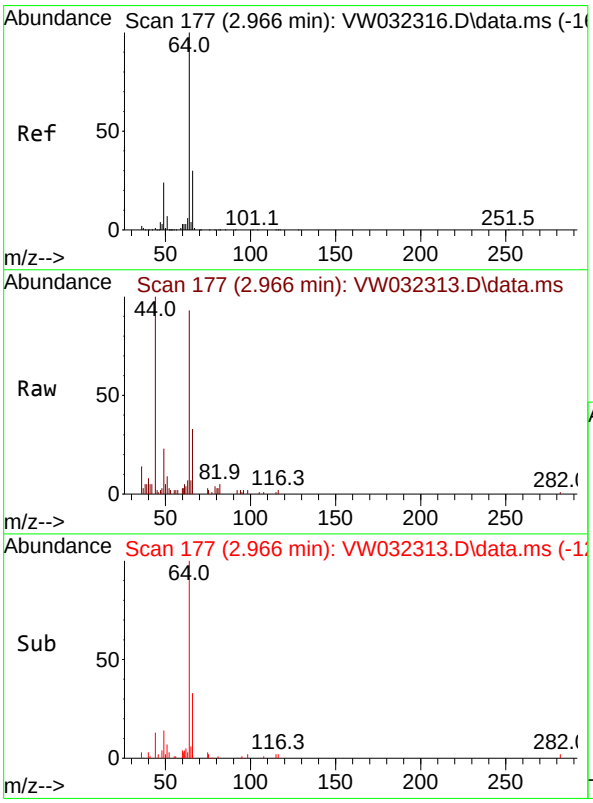
Ion	Ratio	Lower	Upper
94	100		
96	82.8	76.6	115.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

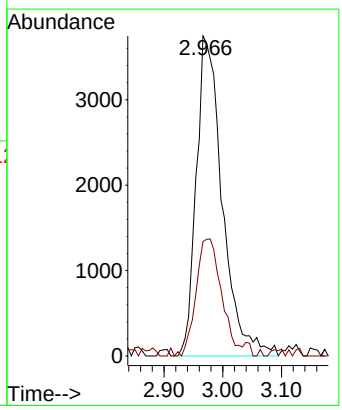
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

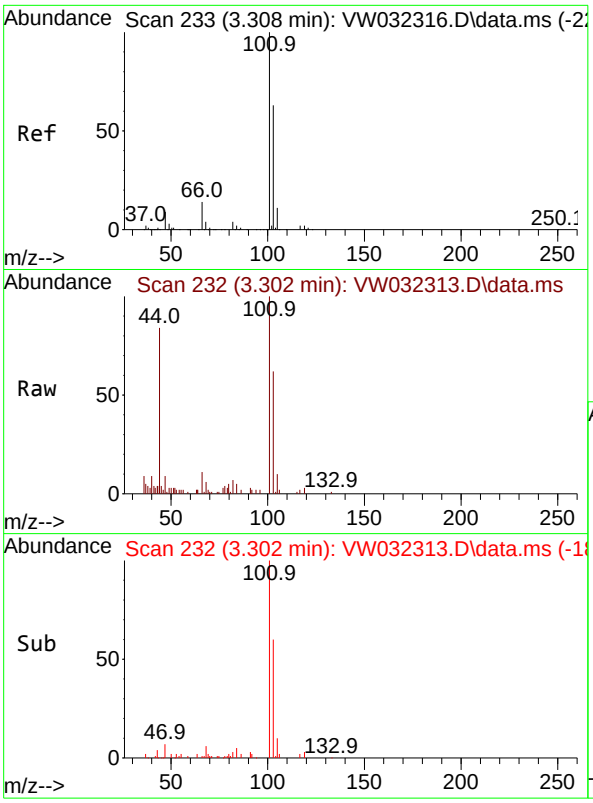


#6
Chloroethane
Concen: 5.309 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 64 Resp: 11537

Ion	Ratio	Lower	Upper
64	100		
66	34.4	26.2	39.4

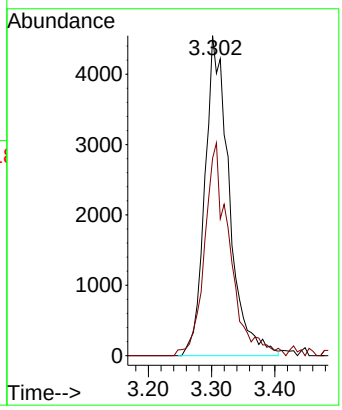




#7
Trichlorofluoromethane
Concen: 4.923 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:101 Resp: 1213

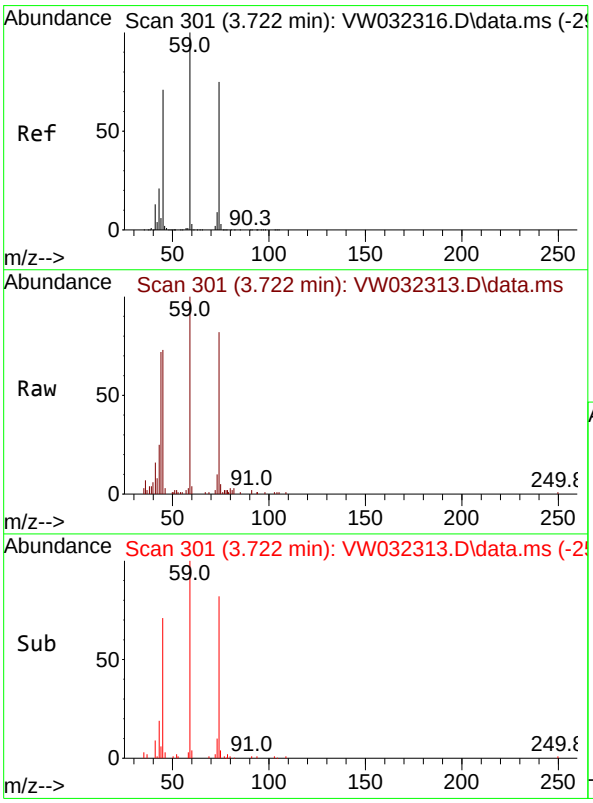
Ion	Ratio	Lower	Upper
101	100		
103	59.9	47.8	71.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

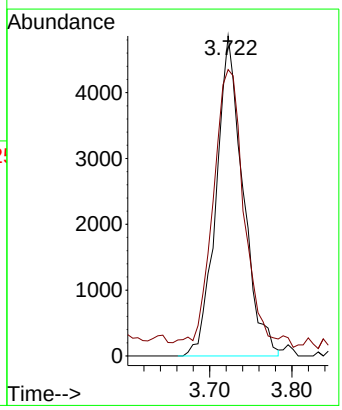
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

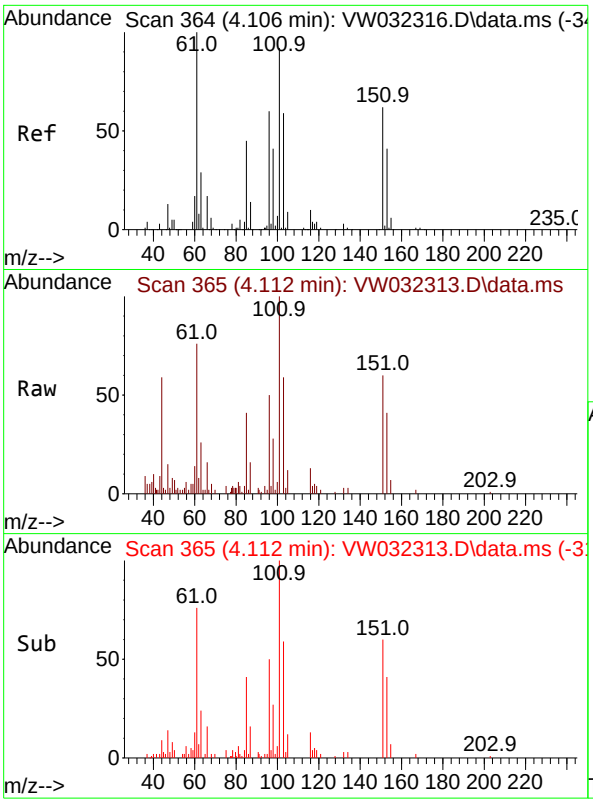


#8
Diethyl Ether
Concen: 5.183 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 74 Resp: 11070

Ion	Ratio	Lower	Upper
74	100		
45	98.2	43.1	129.4

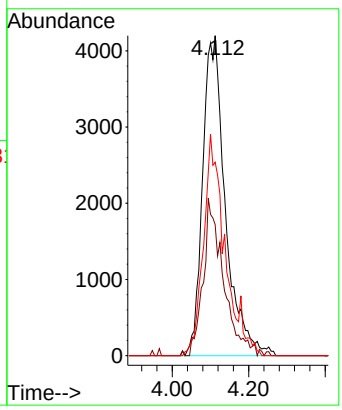




#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.865 ug/l
RT: 4.112 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:101 Resp: 1733

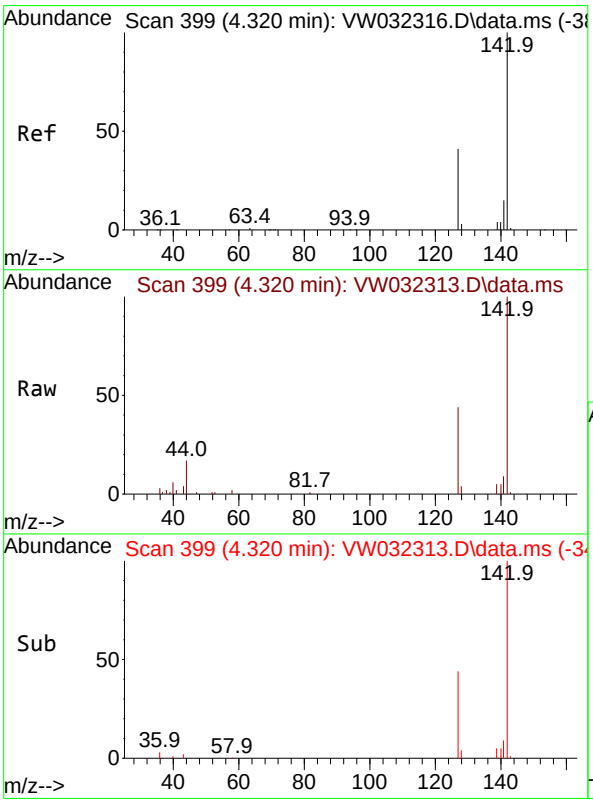
Ion	Ratio	Lower	Upper
101	100		
85	44.1	37.1	55.7
151	60.6	61.5	92.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

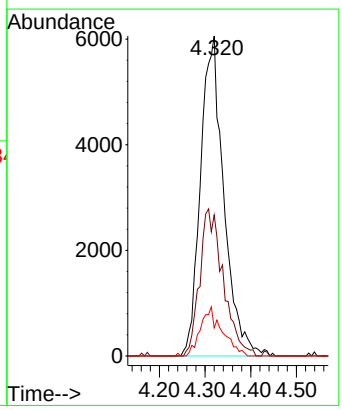
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

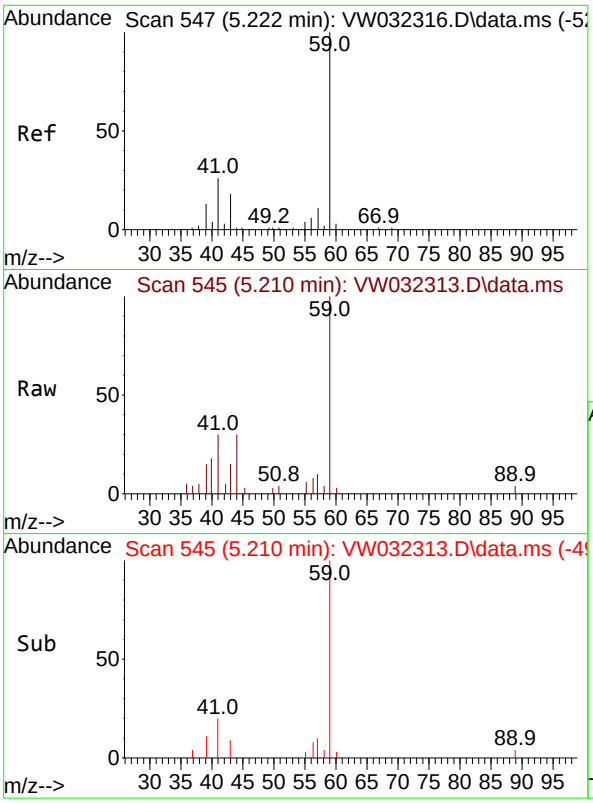


#10
Methyl Iodide
Concen: 5.084 ug/l
RT: 4.320 min Scan# 399
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:142 Resp: 21442

Ion	Ratio	Lower	Upper
142	100		
127	46.5	38.2	57.2
141	14.2	12.2	18.2

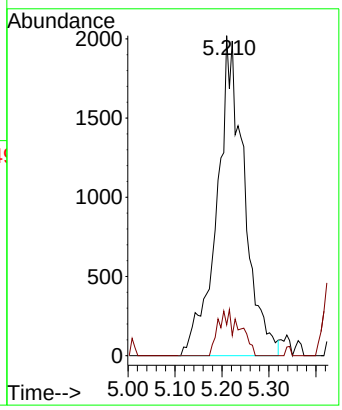




#11
Tert butyl alcohol
Concen: 25.972 ug/l
RT: 5.210 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 59 Resp: 816

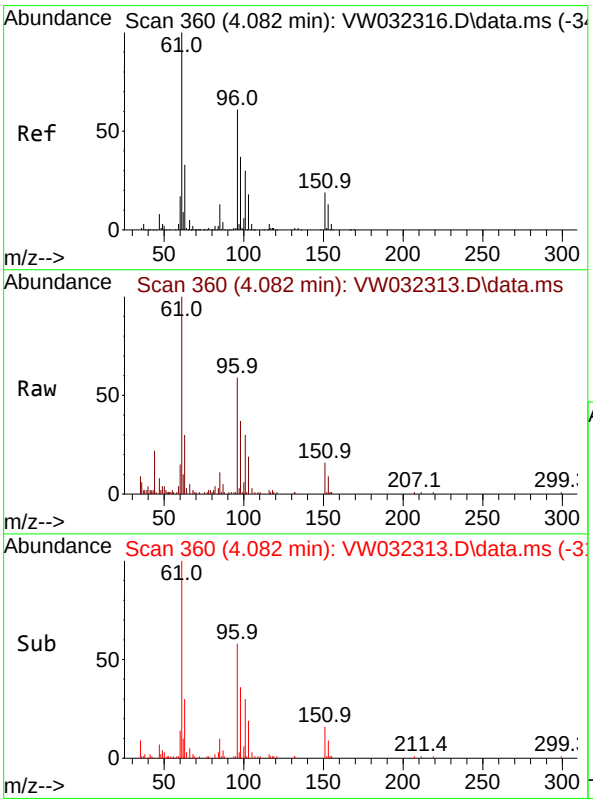
Ion	Ratio	Lower	Upper
59	100		
57	11.2	9.8	14.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

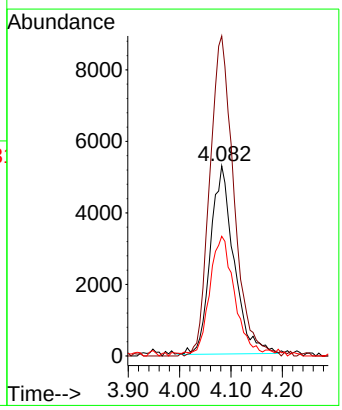
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

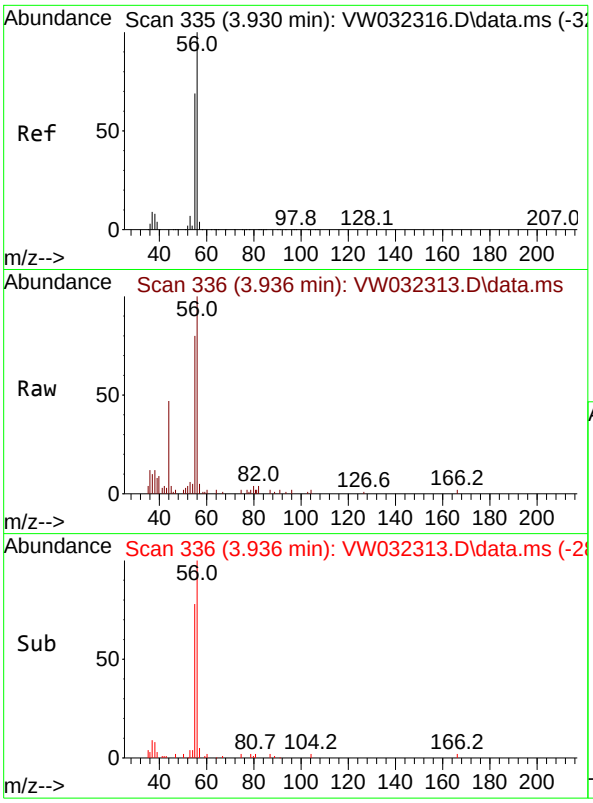


#12
1,1-Dichloroethene
Concen: 5.218 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 96 Resp: 16745

Ion	Ratio	Lower	Upper
96	100		
61	170.5	123.0	184.4
98	62.3	48.5	72.7

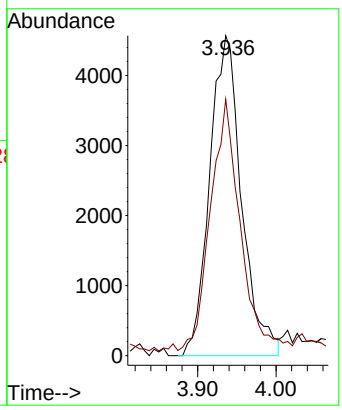




#13
Acrolein
Concen: 25.344 ug/l
RT: 3.936 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 56 Resp: 1293

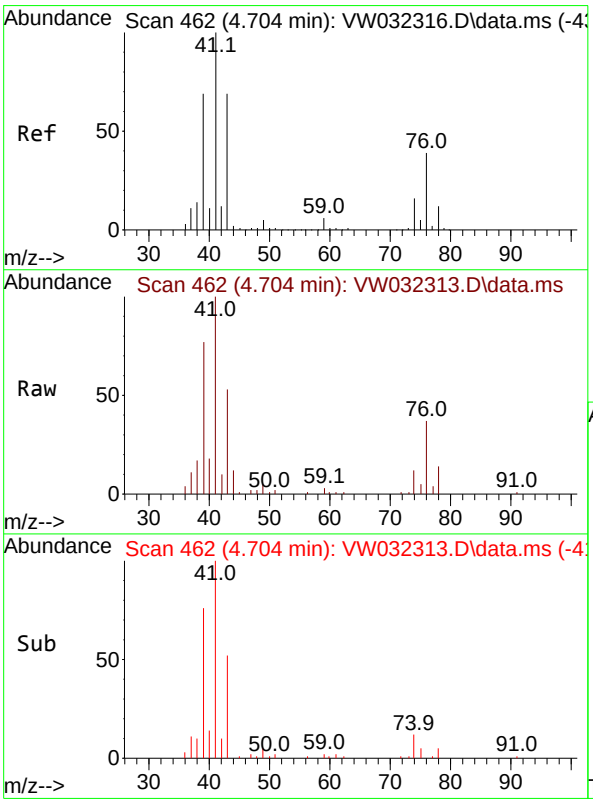
Ion	Ratio	Lower	Upper
56	100		
55	73.0	56.4	84.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

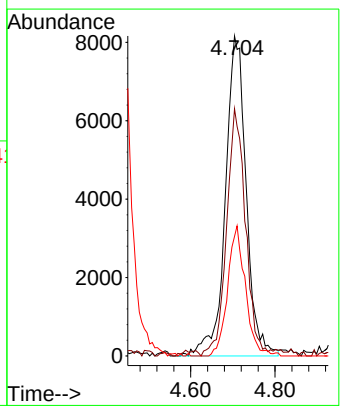
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

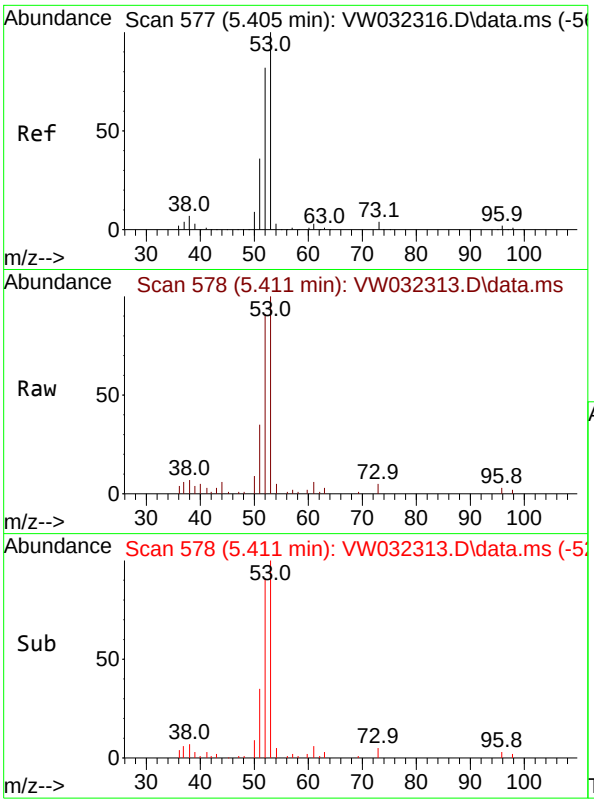


#14
Allyl chloride
Concen: 5.163 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 41 Resp: 27986

Ion	Ratio	Lower	Upper
41	100		
39	70.3	64.1	96.1
76	34.7	31.4	47.2

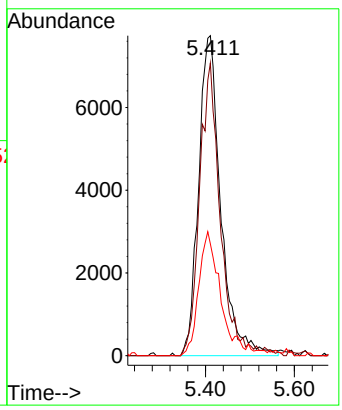




#15
Acrylonitrile
Concen: 24.226 ug/l
RT: 5.411 min Scan# 5
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 53 Resp: 2691

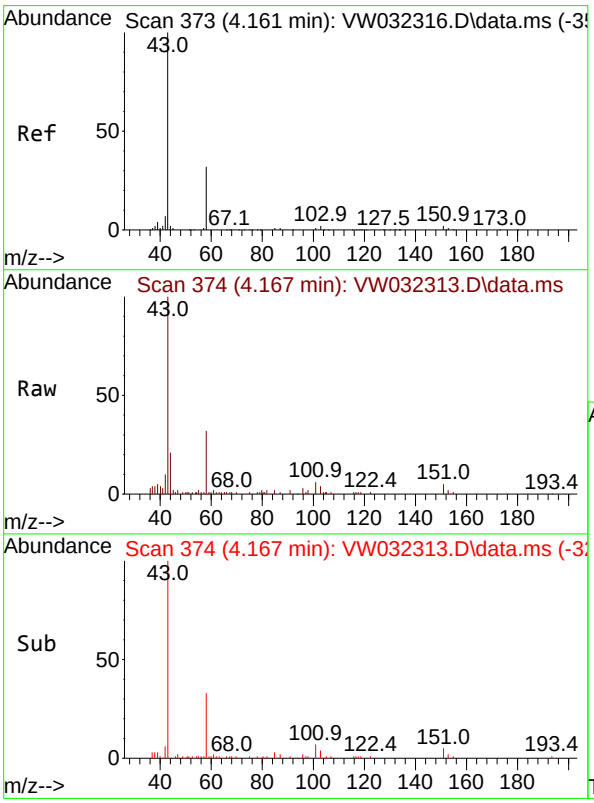
Ion	Ratio	Lower	Upper
53	100		
52	84.6	67.4	101.2
51	35.2	30.3	45.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

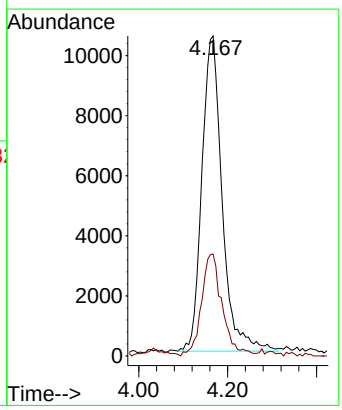
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

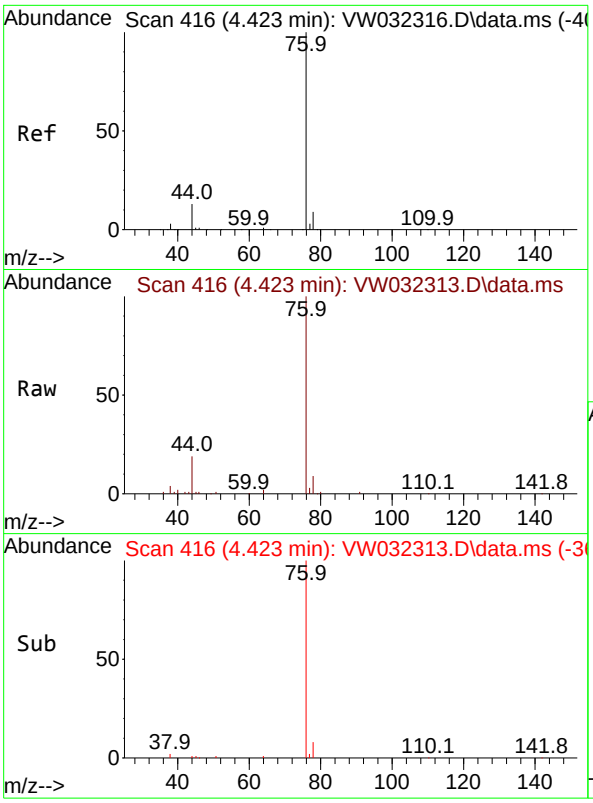


#16
Acetone
Concen: 29.049 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 43 Resp: 33407

Ion	Ratio	Lower	Upper
43	100		
58	31.8	25.3	37.9

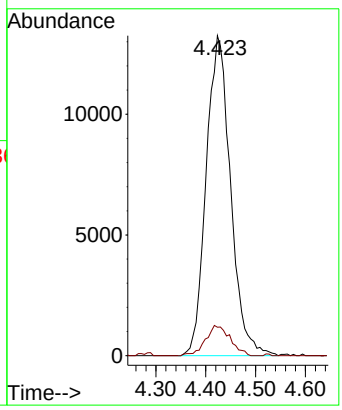




#17
Carbon Disulfide
Concen: 5.143 ug/l
RT: 4.423 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 76 Resp: 4503

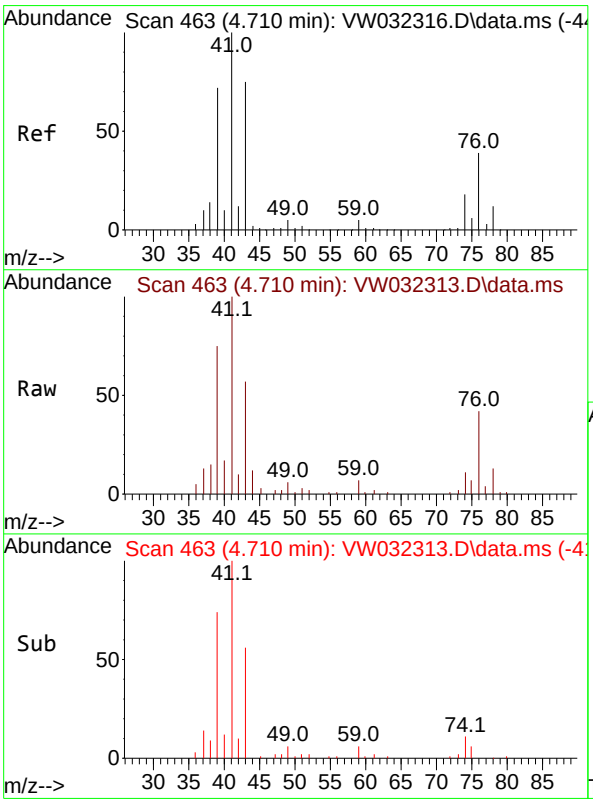
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

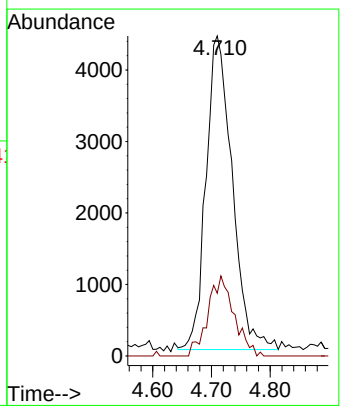
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

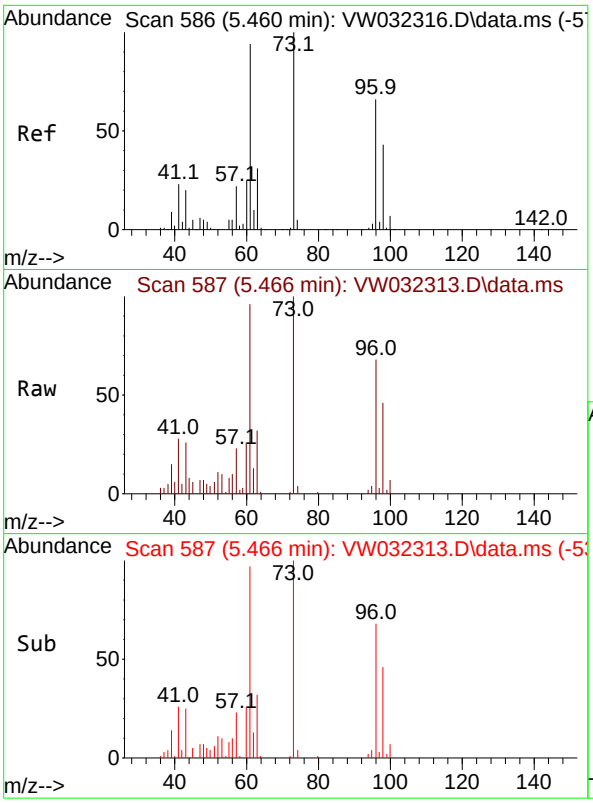


#18
Methyl Acetate
Concen: 4.134 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 43 Resp: 13618

Ion	Ratio	Lower	Upper
43	100		
74	25.4	20.2	30.4

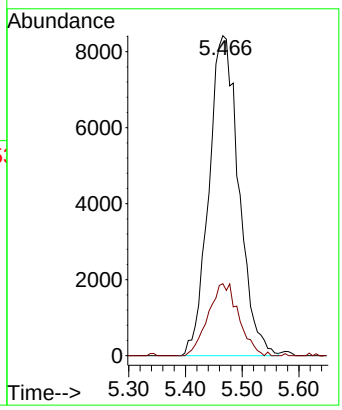




#19
Methyl tert-butyl Ether
Concen: 4.897 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 73 Resp: 3095

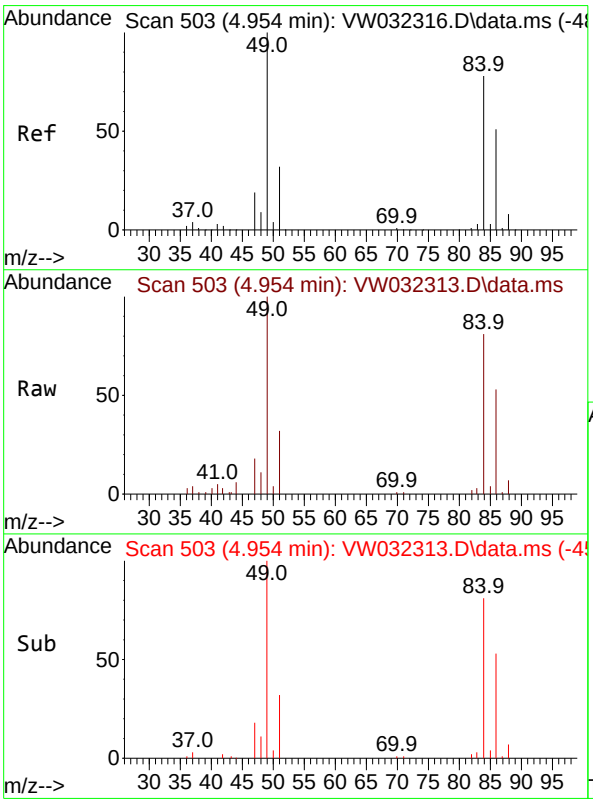
Ion	Ratio	Lower	Upper
73	100		
57	22.5	16.2	24.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

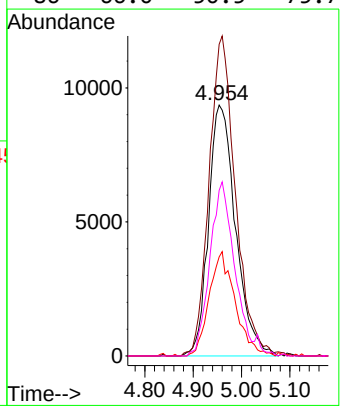
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

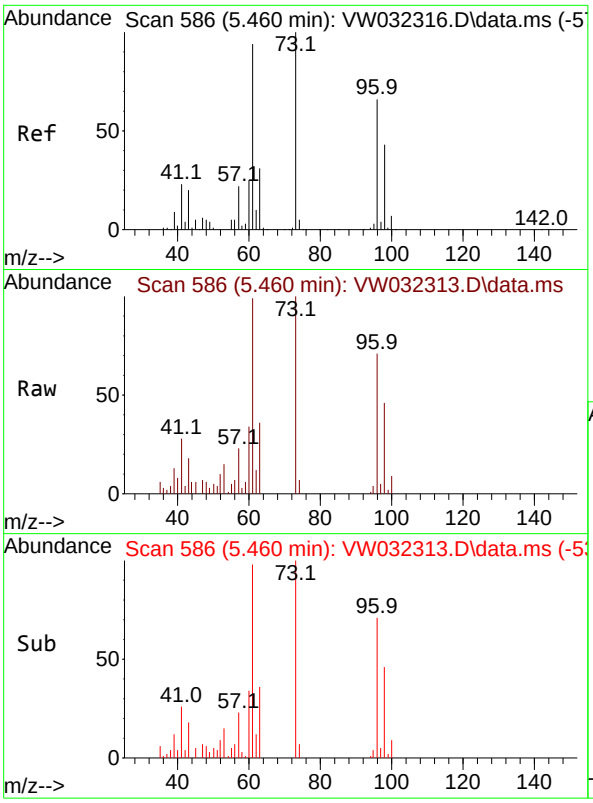


#20
Methylene Chloride
Concen: 4.732 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 84 Resp: 36441

Ion	Ratio	Lower	Upper
84	100		
49	124.2	92.2	138.4
51	39.5	31.0	46.6
86	66.0	50.5	75.7

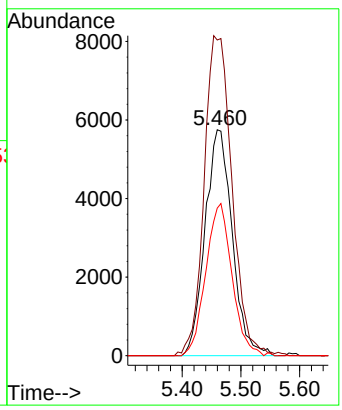




#21
trans-1,2-Dichloroethene
Concen: 5.203 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 96 Resp: 1848

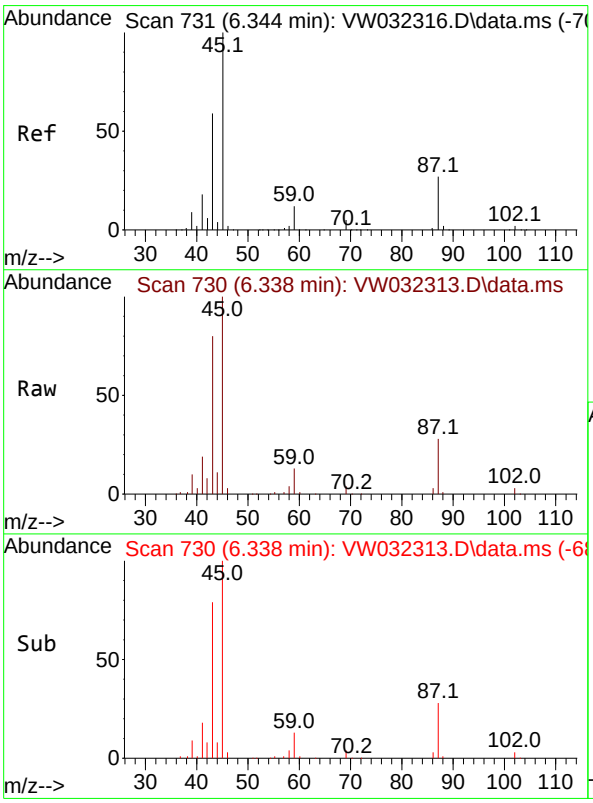
Ion	Ratio	Lower	Upper
96	100		
61	138.3	112.5	168.7
98	65.3	54.2	81.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

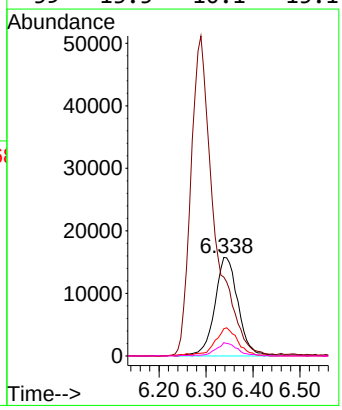
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

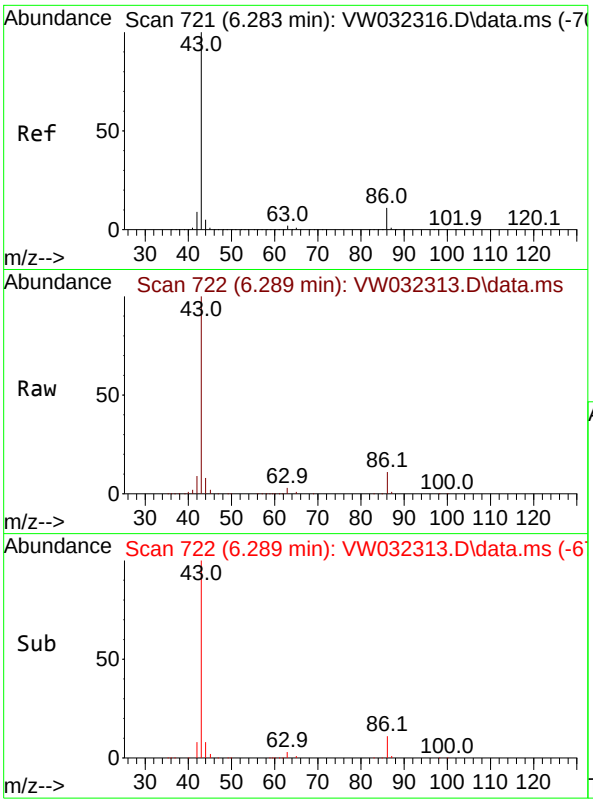


#22
Diisopropyl ether
Concen: 4.799 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 45 Resp: 54095

Ion	Ratio	Lower	Upper
45	100		
43	78.3	51.4	77.2#
87	27.7	25.9	38.9
59	13.5	10.1	15.1





#23
Vinyl Acetate
Concen: 23.579 ug/l
RT: 6.289 min Scan# 7
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

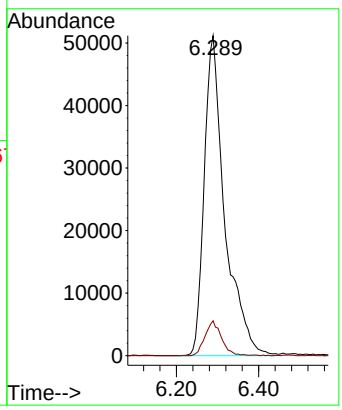
Tgt Ion: 43 Resp: 17754

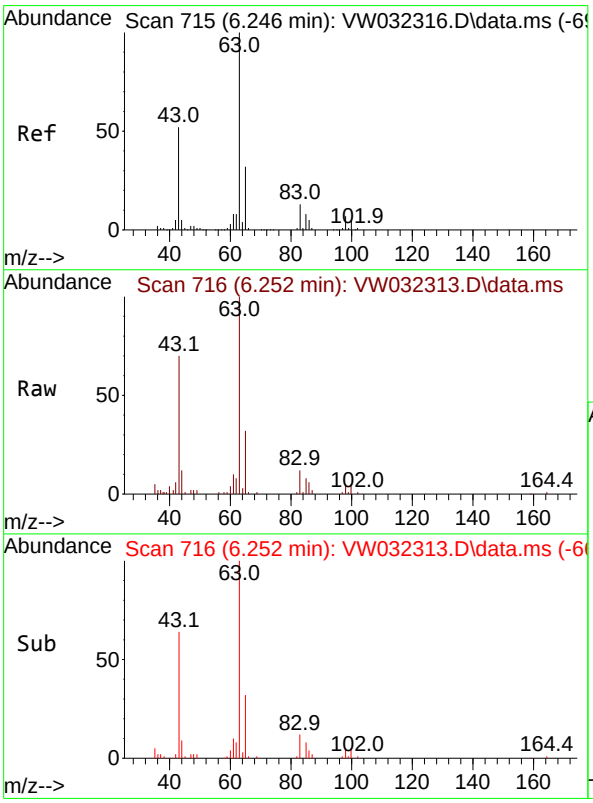
Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.8	13.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

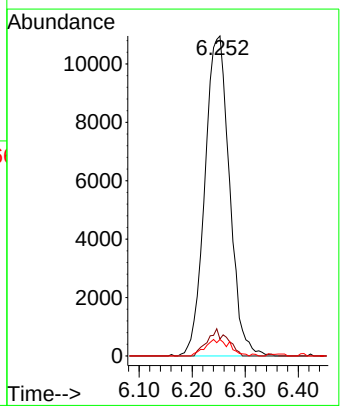


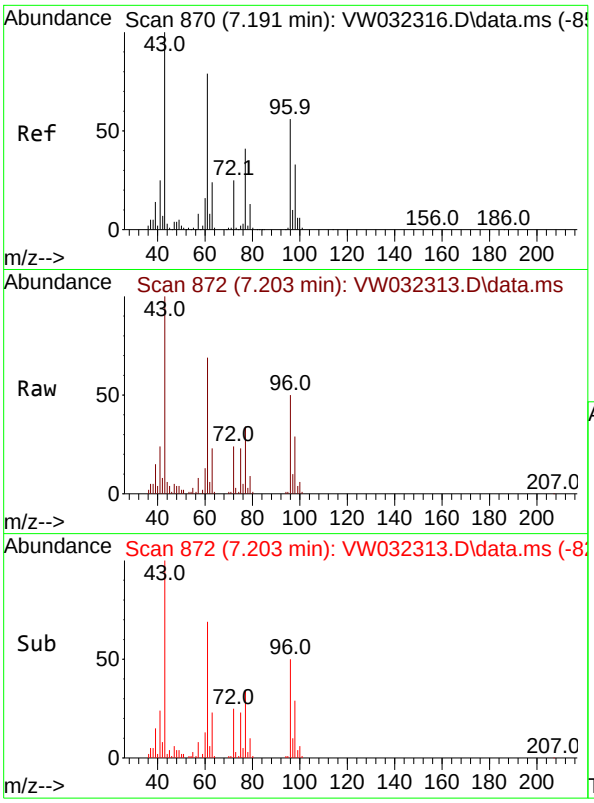


#24
1,1-Dichloroethane
Concen: 5.149 ug/l
RT: 6.252 min Scan# 716
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 63 Resp: 35264

Ion	Ratio	Lower	Upper
63	100		
98	5.3	3.8	11.2
100	5.1	2.5	7.5

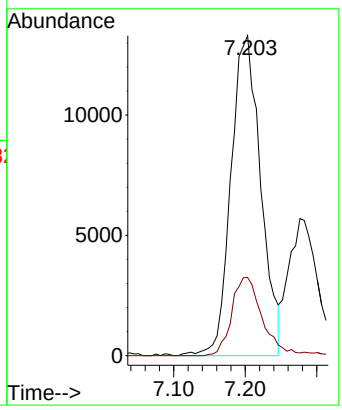




#25
2-Butanone
Concen: 24.612 ug/l
RT: 7.203 min Scan# 8
Delta R.T. 0.012 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 43 Resp: 3854

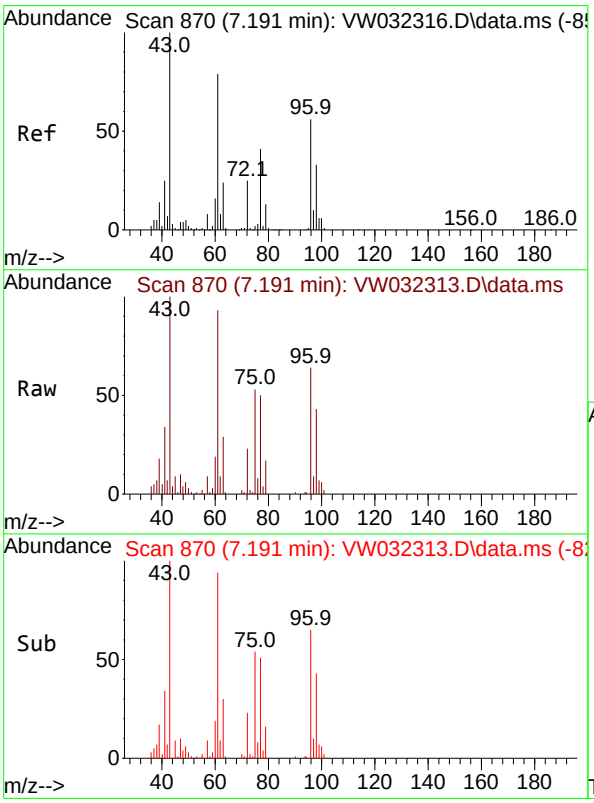
Ion	Ratio	Lower	Upper
43	100		
72	24.5	21.4	32.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

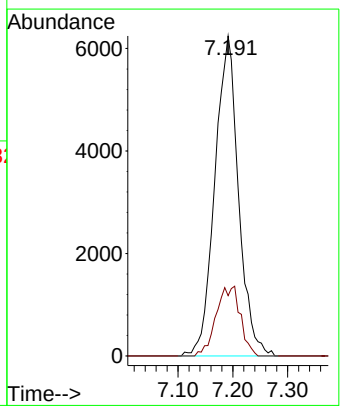
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

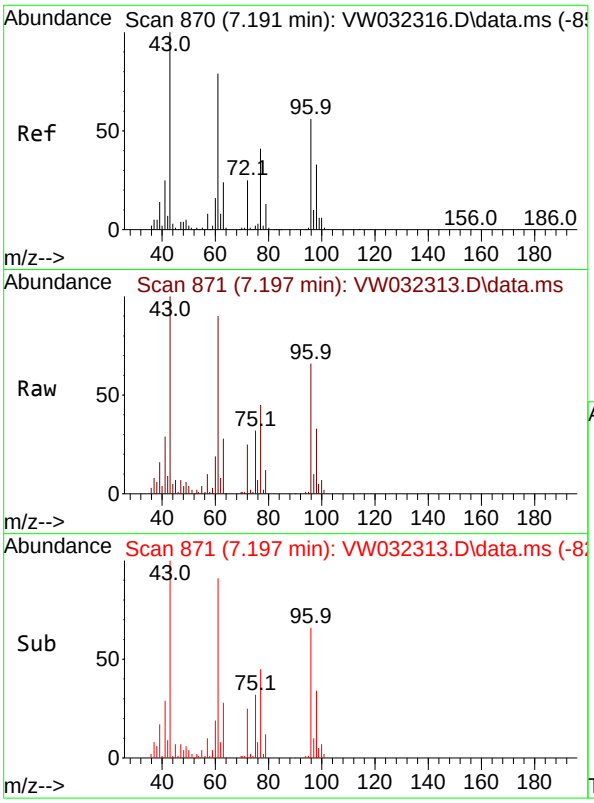


#26
2,2-Dichloropropane
Concen: 5.352 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 77 Resp: 18751

Ion	Ratio	Lower	Upper
77	100		
97	22.3	11.9	35.5

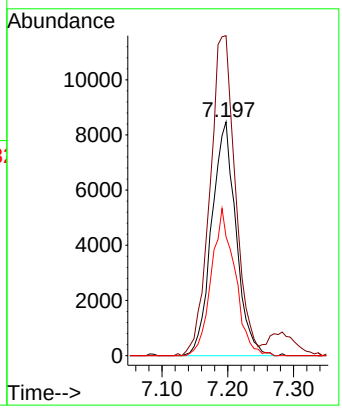




#27
cis-1,2-Dichloroethene
Concen: 5.120 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 96 Resp: 2185

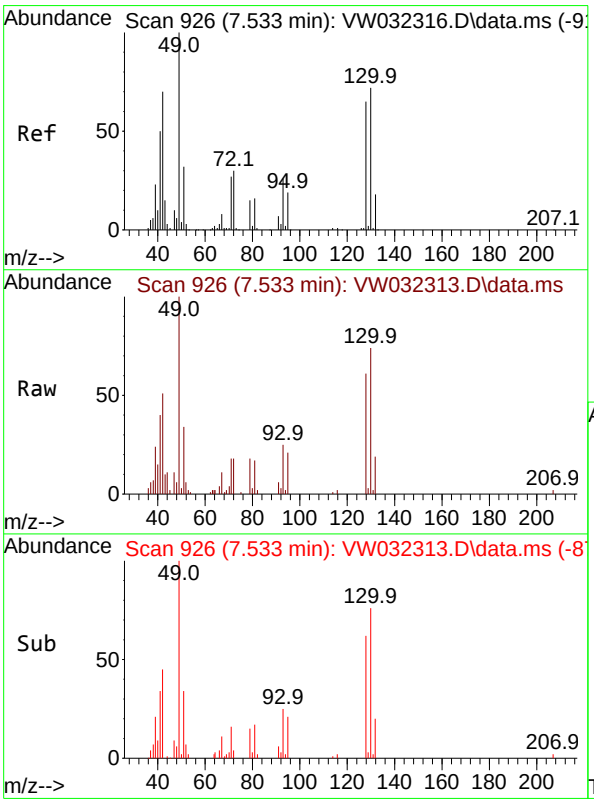
Ion	Ratio	Lower	Upper
96	100		
61	142.8	0.0	268.0
98	60.8	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

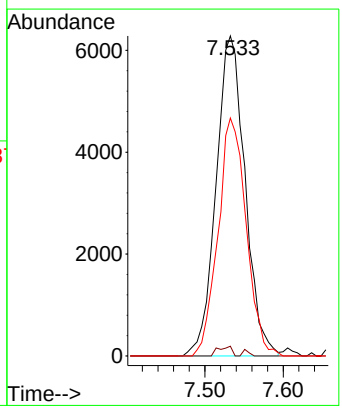
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

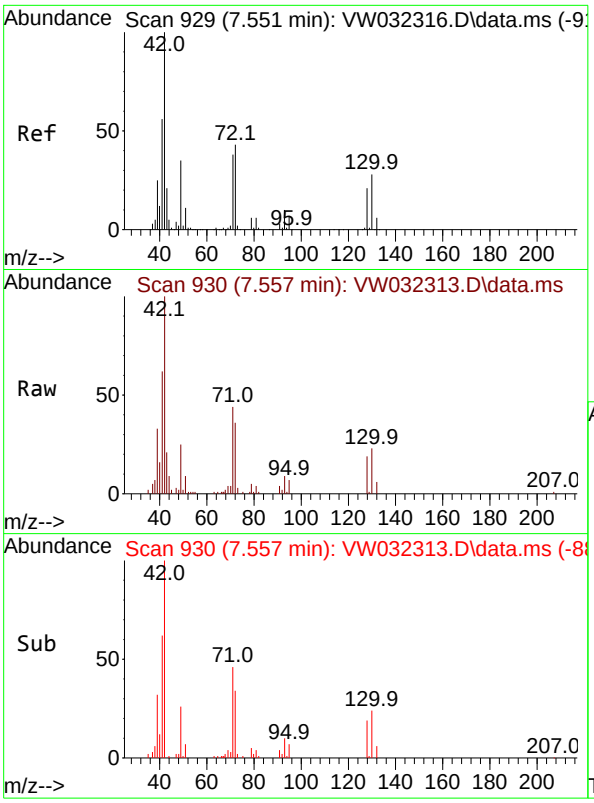


#28
Bromochloromethane
Concen: 5.005 ug/l
RT: 7.533 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 49 Resp: 16126

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	4.2
130	72.4	67.5	101.3





#29
Tetrahydrofuran
Concen: 23.204 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

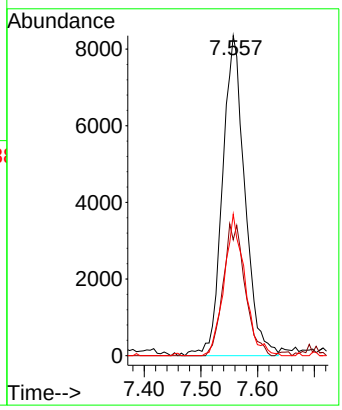
Tgt Ion: 42 Resp: 2285

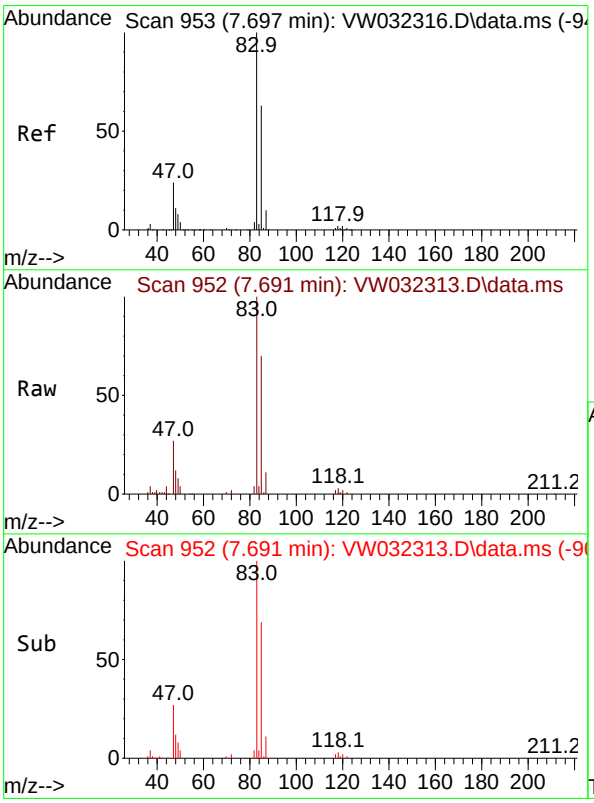
Ion	Ratio	Lower	Upper
42	100		
72	40.3	37.4	56.2
71	41.0	36.0	54.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

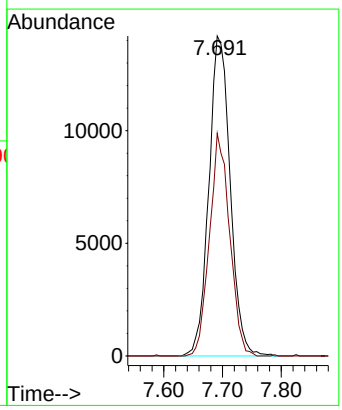


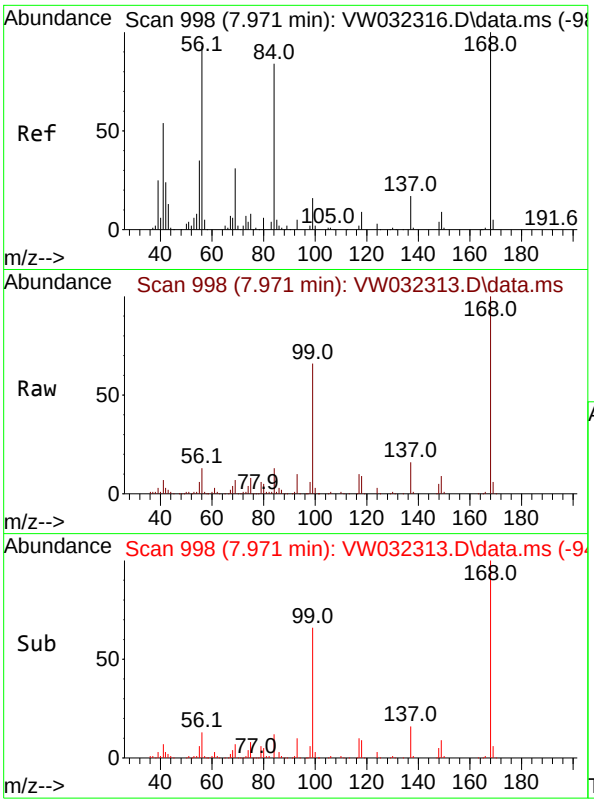


#30
Chloroform
Concen: 5.154 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 83 Resp: 35798

Ion	Ratio	Lower	Upper
83	100		
85	69.5	51.2	76.8





#31
Cyclohexane
Concen: 5.983 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

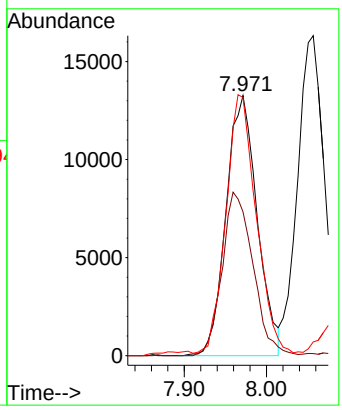
Tgt Ion: 56 Resp: 3498

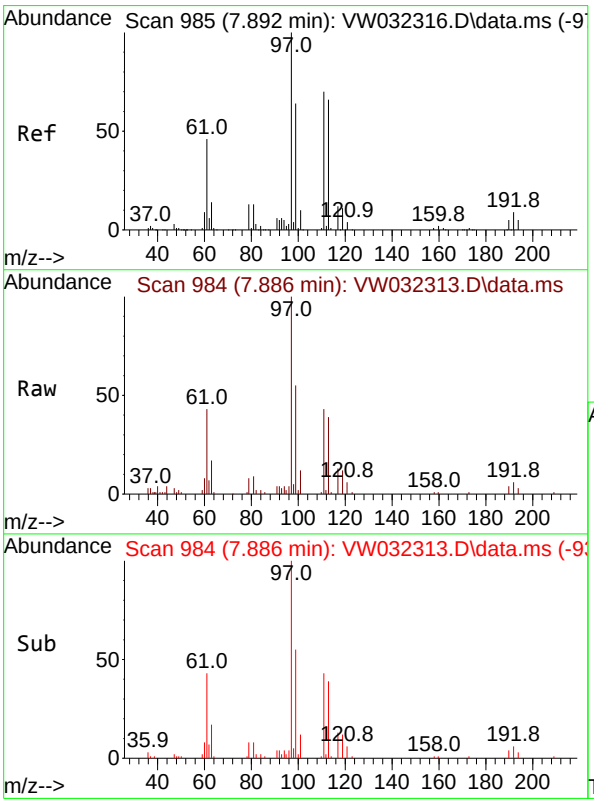
Ion	Ratio	Lower	Upper
56	100		
69	55.3	27.7	41.5
84	98.1	74.6	112.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

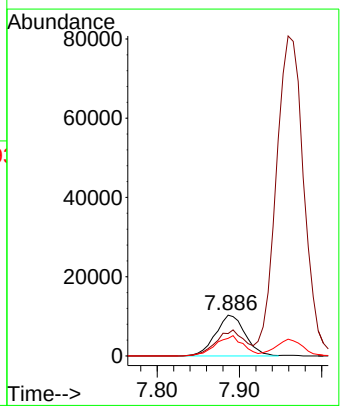


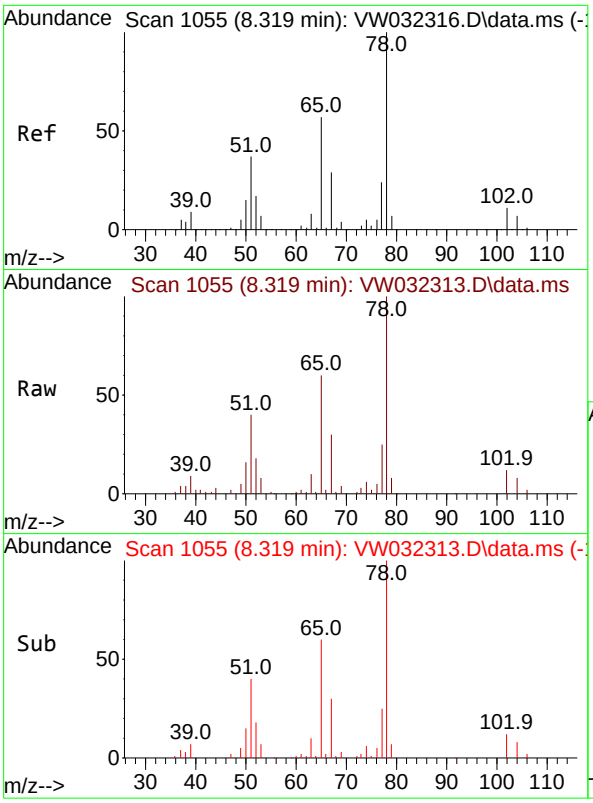


#32
1,1,1-Trichloroethane
Concen: 5.244 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 97 Resp: 25812

Ion	Ratio	Lower	Upper
97	100		
99	61.9	50.9	76.3
61	46.5	36.2	54.4

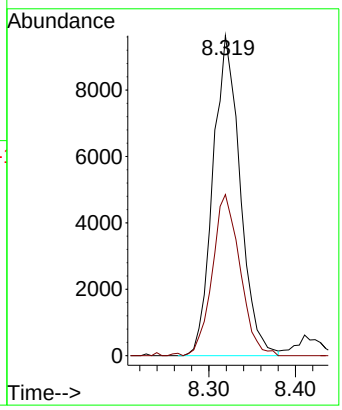




#33
1,2-Dichloroethane-d4
Concen: 5.059 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 65 Resp: 2101

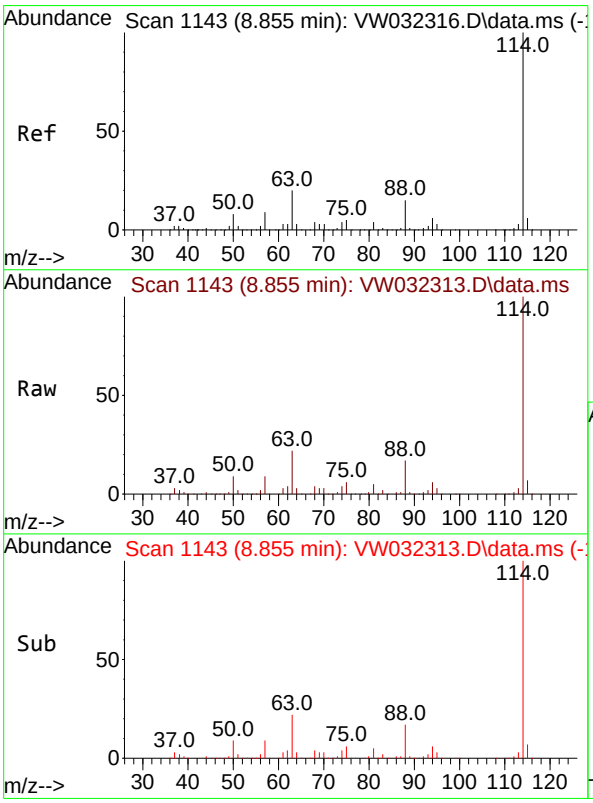
Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	99.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

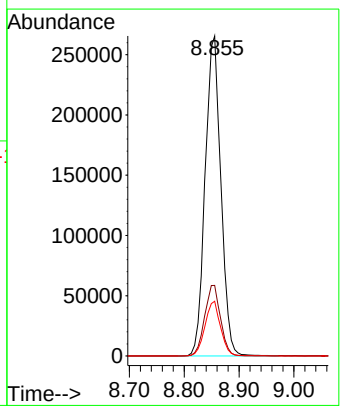
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

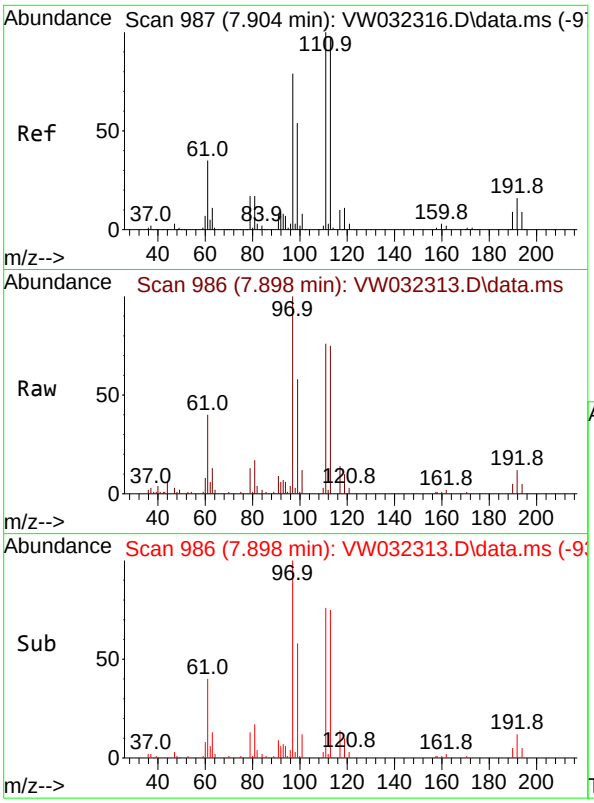


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:114 Resp: 526707

Ion	Ratio	Lower	Upper
114	100		
63	22.0	0.0	40.4
88	17.1	0.0	32.0

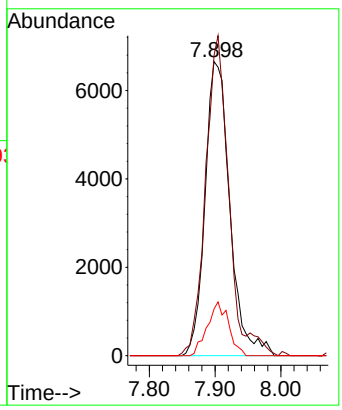




#35
Dibromofluoromethane
Concen: 5.118 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:113 Resp: 1745

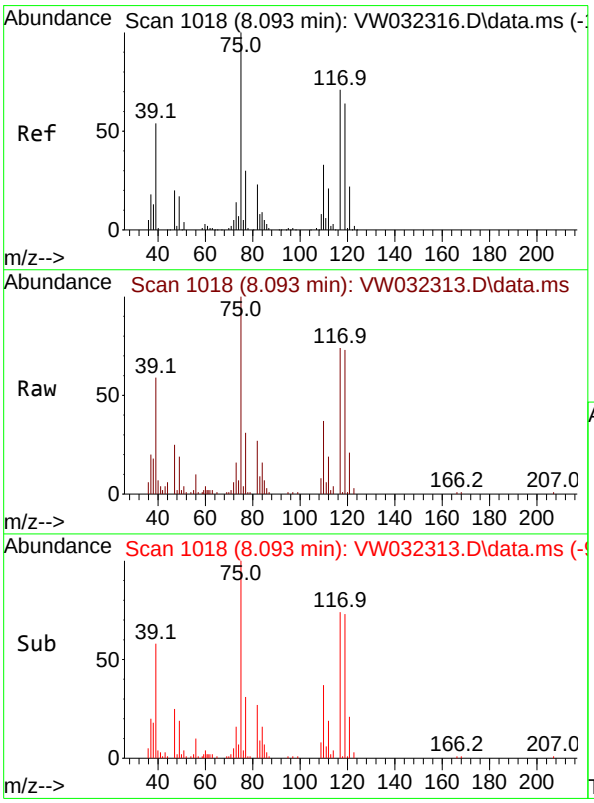
Ion	Ratio	Lower	Upper
113	100		
111	97.8	83.9	125.9
192	15.7	14.6	21.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

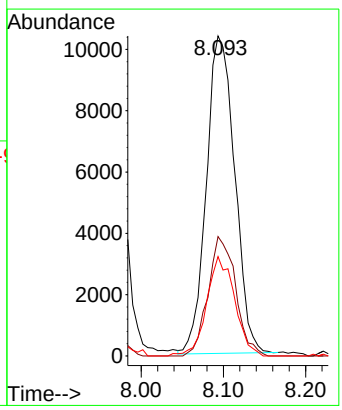
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

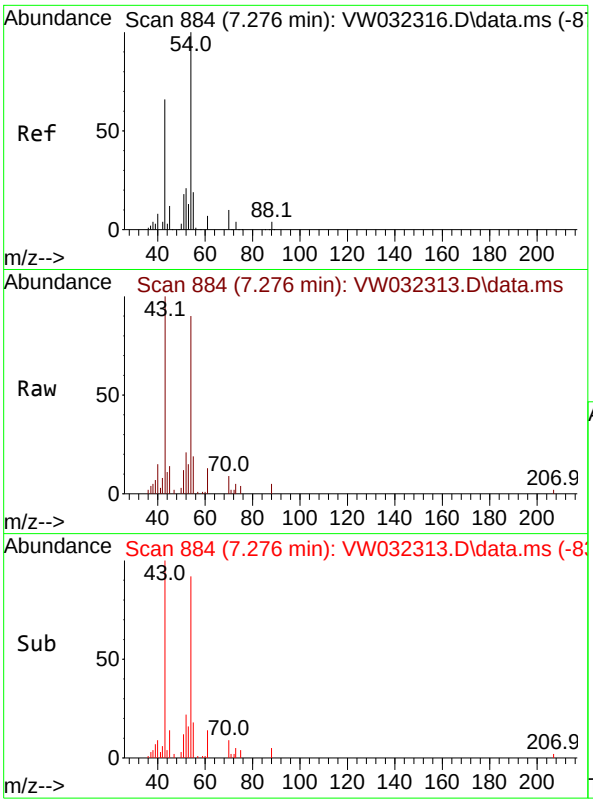


#36
1,1-Dichloropropene
Concen: 5.155 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 75 Resp: 24817

Ion	Ratio	Lower	Upper
75	100		
110	36.6	17.5	52.5
77	31.0	24.1	36.1

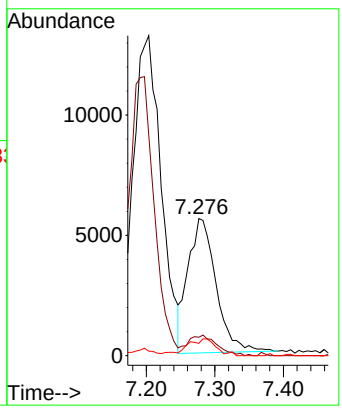




#37
Ethyl Acetate
Concen: 4.972 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 43 Resp: 1593

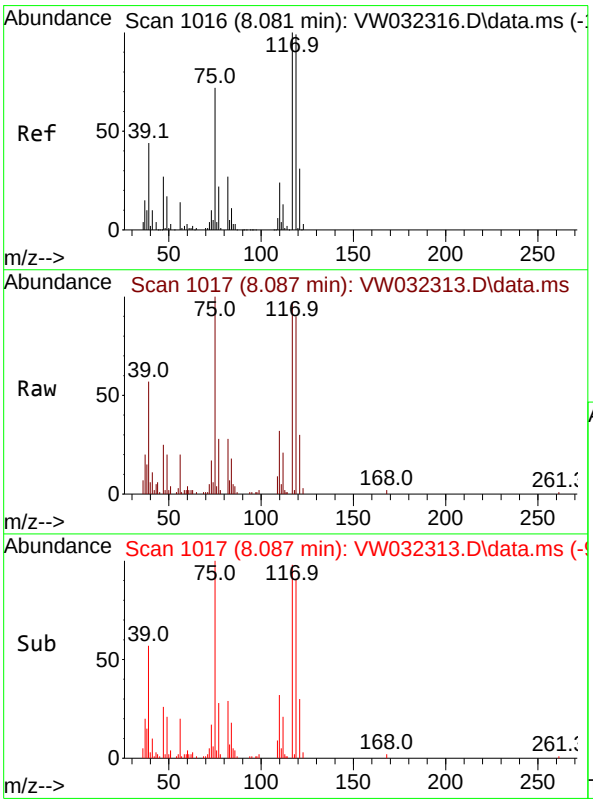
Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.3	16.9
70	13.3	8.9	13.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

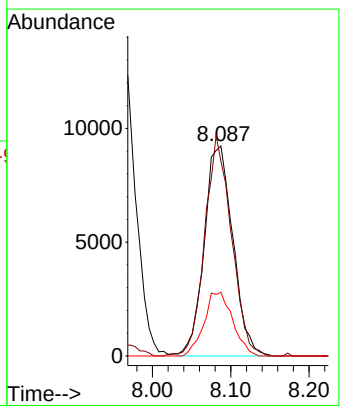
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

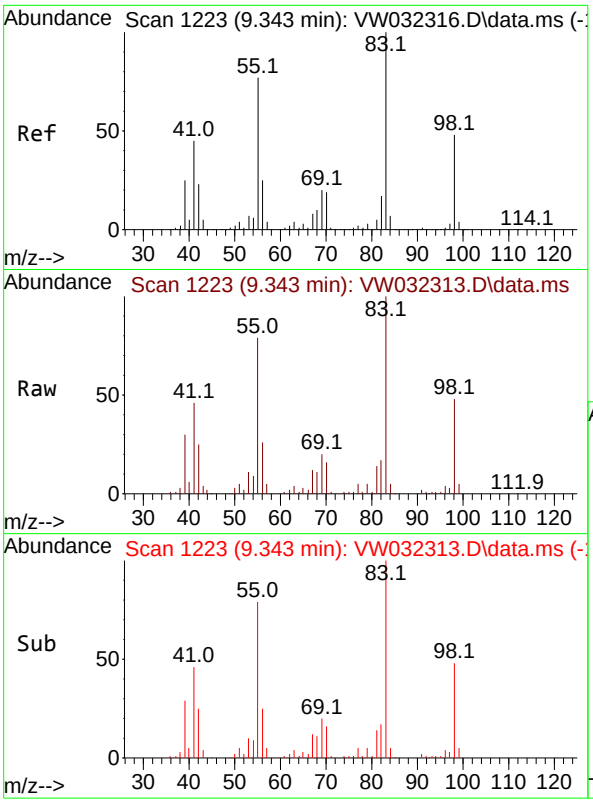


#38
Carbon Tetrachloride
Concen: 5.188 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:117 Resp: 23500

Ion	Ratio	Lower	Upper
117	100		
119	92.7	74.2	111.2
121	30.4	25.6	38.4

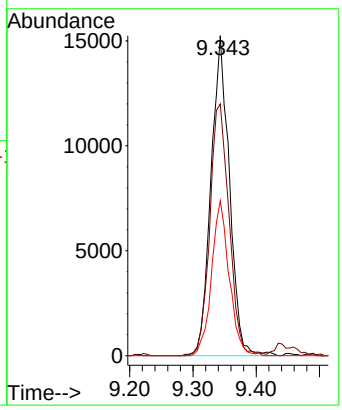




#39
Methylcyclohexane
Concen: 5.307 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 83 Resp: 3081

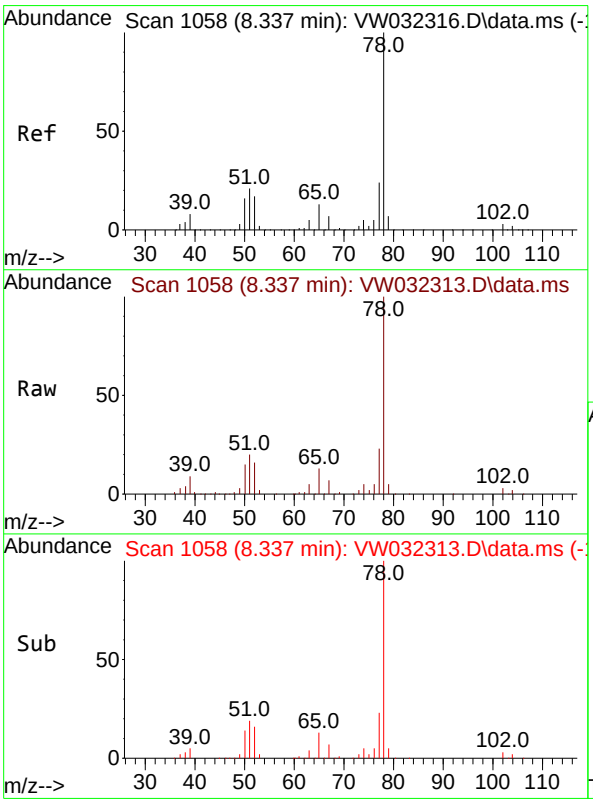
Ion	Ratio	Lower	Upper
83	100		
55	78.7	58.4	87.6
98	48.4	39.4	59.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

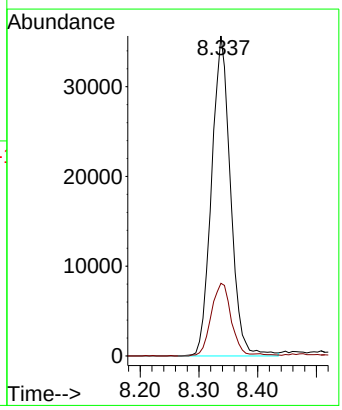
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

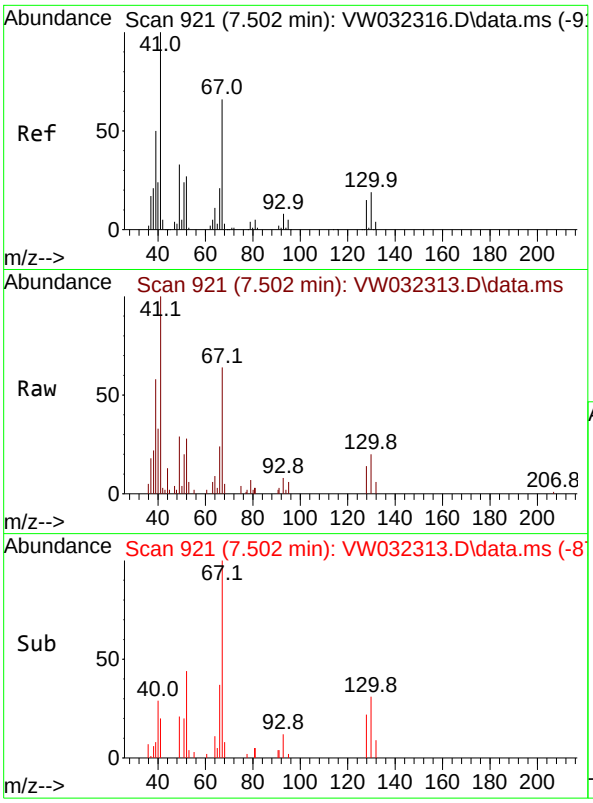


#40
Benzene
Concen: 5.297 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 78 Resp: 79933

Ion	Ratio	Lower	Upper
78	100		
77	22.7	20.7	31.1

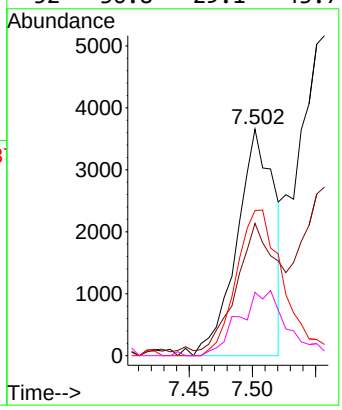




#41
Methacrylonitrile
Concen: 4.364 ug/l
RT: 7.502 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 41 Resp: 753

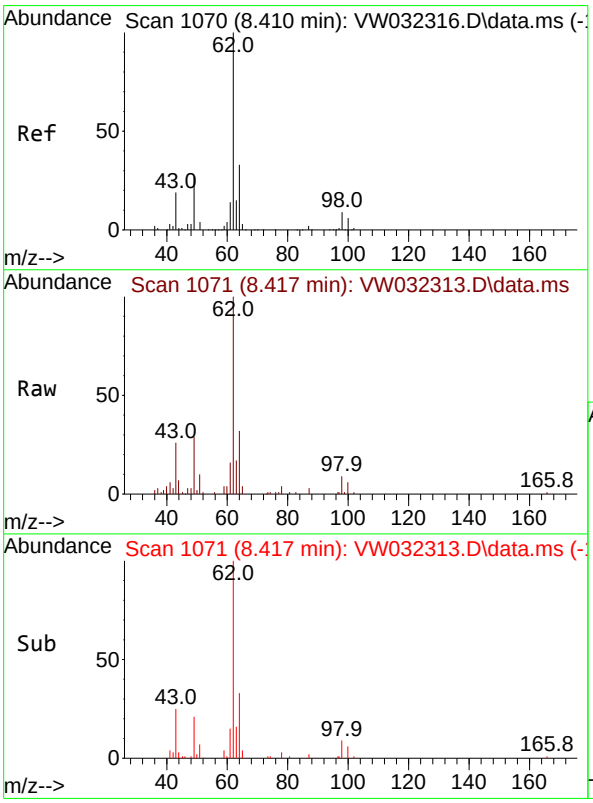
Ion	Ratio	Lower	Upper
41	100		
39	61.4	50.9	76.3
67	82.6	65.6	98.4
52	36.8	29.1	43.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

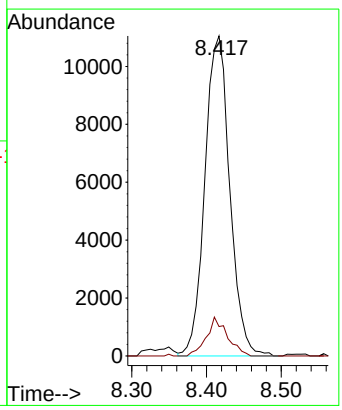
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

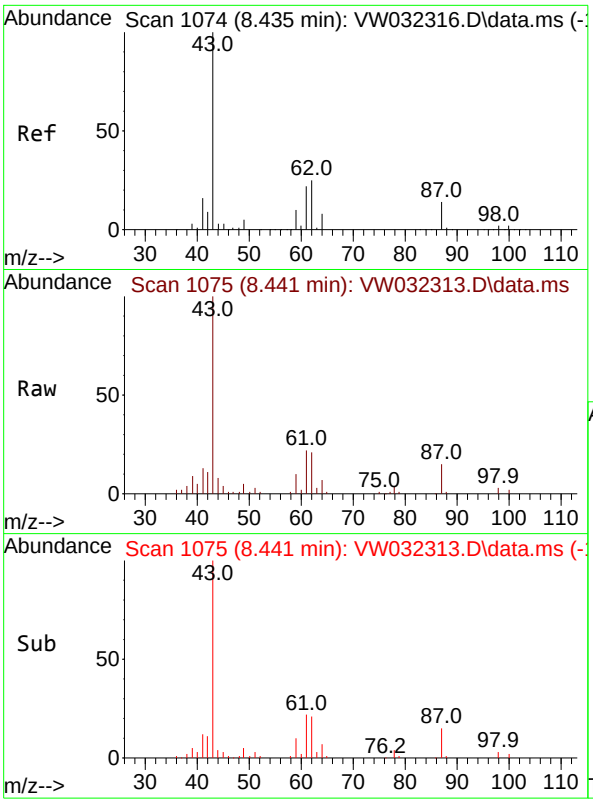


#42
1,2-Dichloroethane
Concen: 5.192 ug/l
RT: 8.417 min Scan# 1071
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 62 Resp: 25632

Ion	Ratio	Lower	Upper
62	100		
98	10.2	0.0	18.0

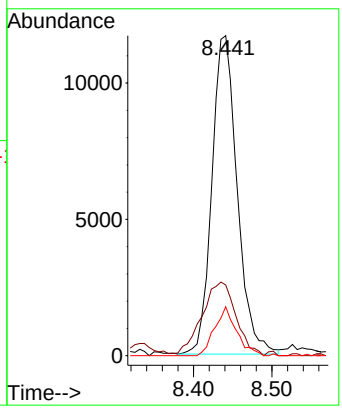




#43
Isopropyl Acetate
Concen: 4.618 ug/l
RT: 8.441 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 43 Resp: 2624

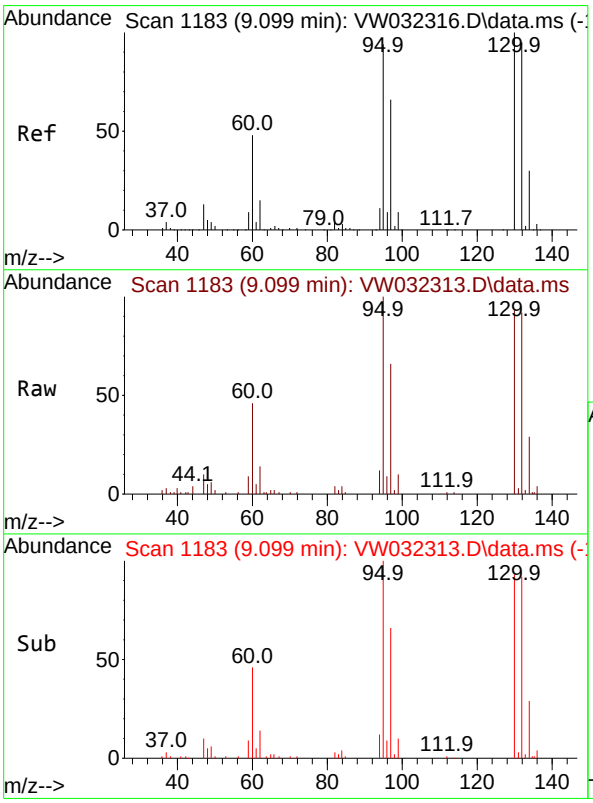
Ion	Ratio	Lower	Upper
43	100		
61	31.2	23.3	34.9
87	13.2	11.1	16.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

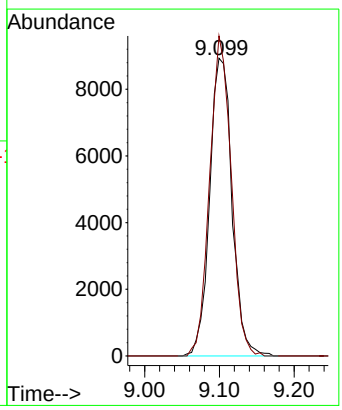
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

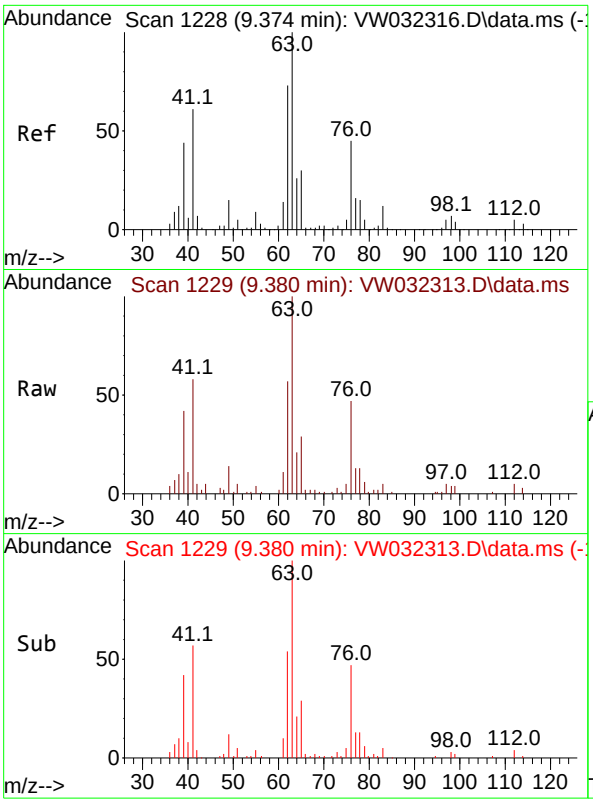


#44
Trichloroethene
Concen: 5.277 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:130 Resp: 18643

Ion	Ratio	Lower	Upper
130	100		
95	107.4	0.0	220.0

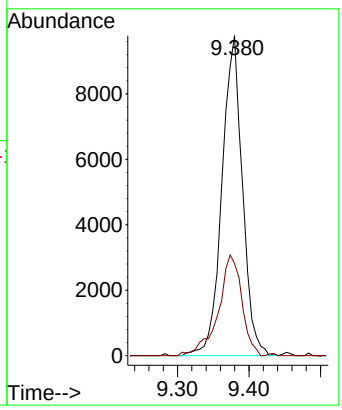




#45
1,2-Dichloropropane
Concen: 5.171 ug/l
RT: 9.380 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 63 Resp: 1947

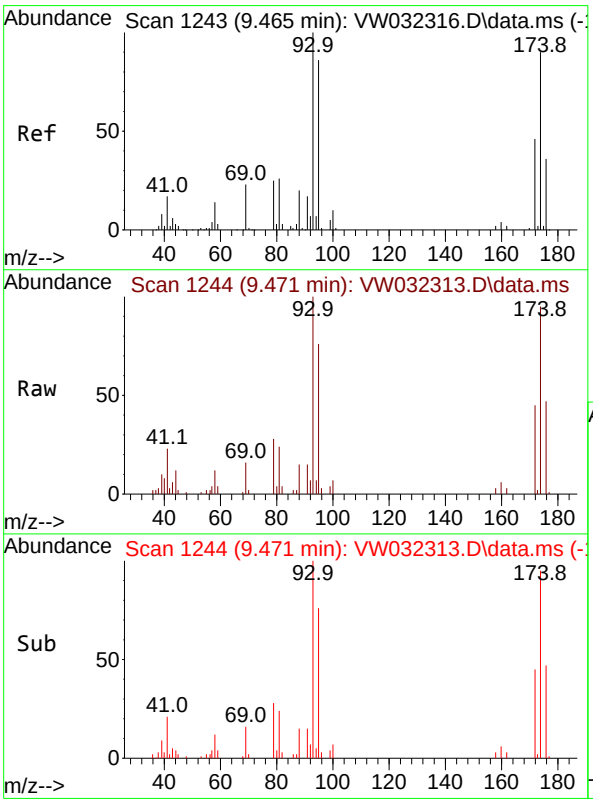
Ion	Ratio	Lower	Upper
63	100		
65	28.7	24.3	36.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

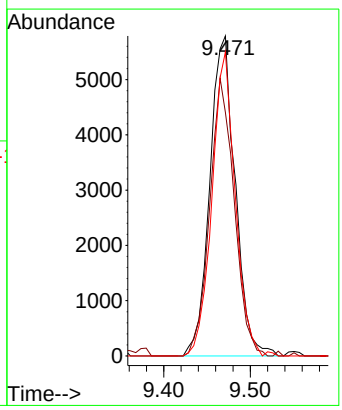
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

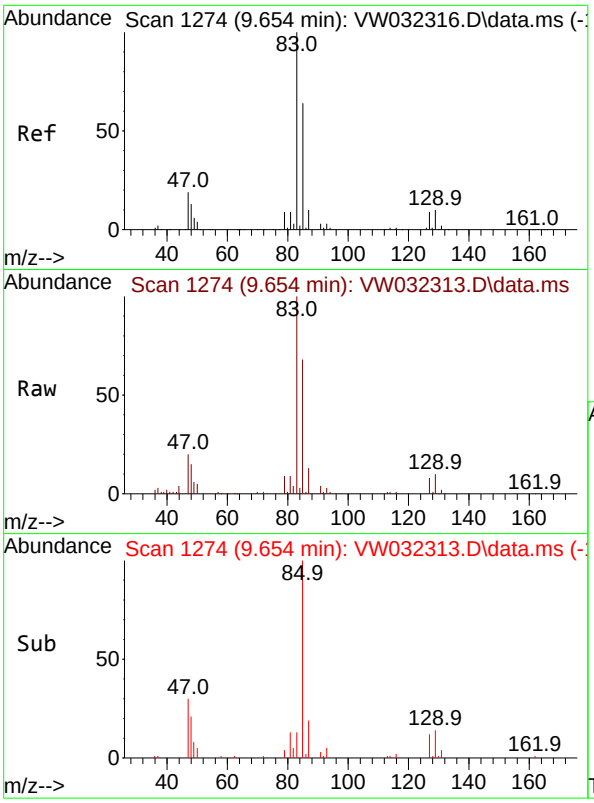


#46
Dibromomethane
Concen: 5.092 ug/l
RT: 9.471 min Scan# 1244
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 93 Resp: 11793

Ion	Ratio	Lower	Upper
93	100		
95	83.8	67.4	101.2
174	87.1	75.7	113.5

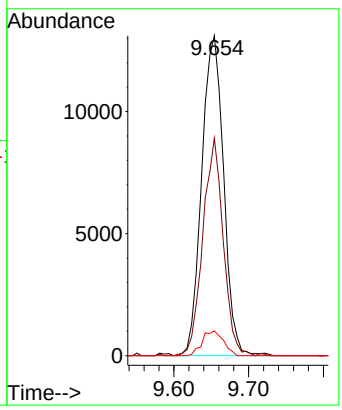




#47
Bromodichloromethane
Concen: 5.039 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 83 Resp: 2669

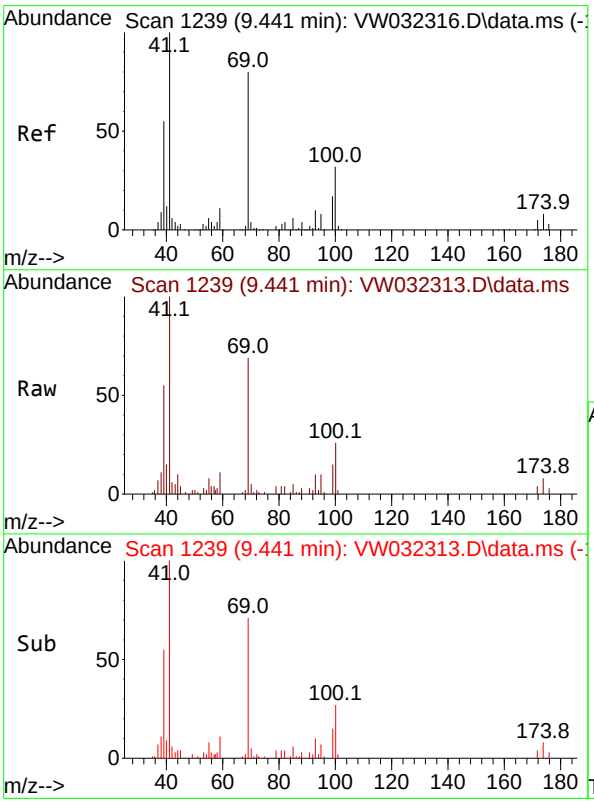
Ion	Ratio	Lower	Upper
83	100		
85	68.0	48.7	73.1
127	7.8	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

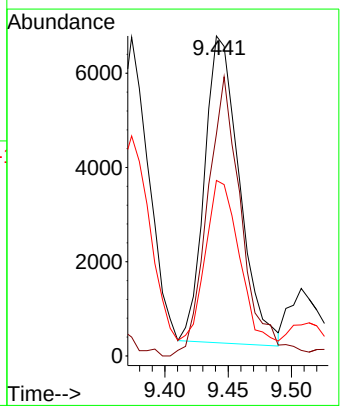
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

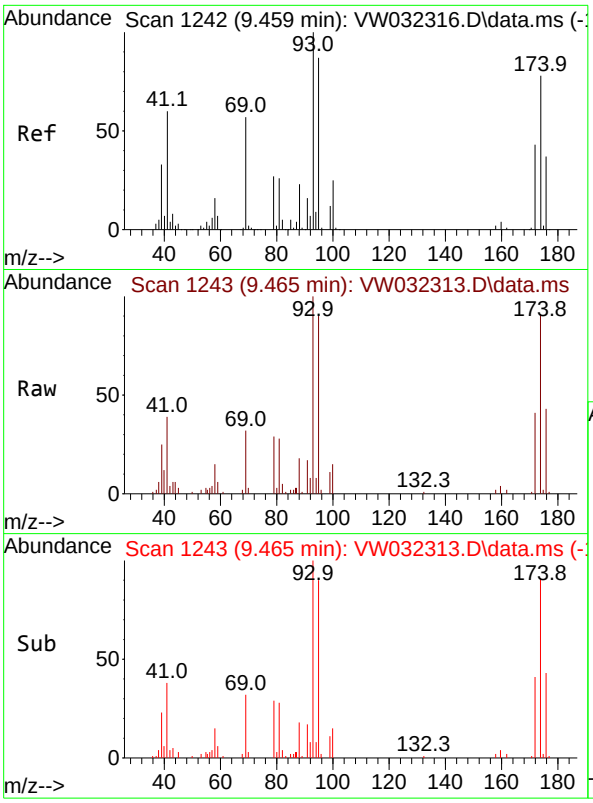


#48
Methyl methacrylate
Concen: 4.512 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 41 Resp: 12470

Ion	Ratio	Lower	Upper
41	100		
69	89.2	71.5	107.3
39	51.0	55.9	83.9#

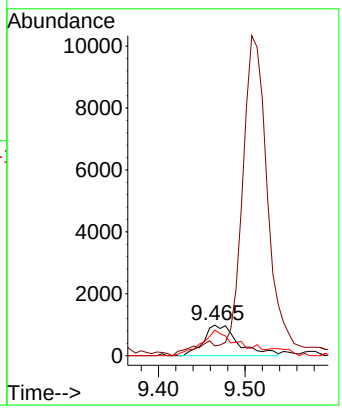




#49
1,4-Dioxane
Concen: 86.306 ug/l
RT: 9.465 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 88 Resp: 273

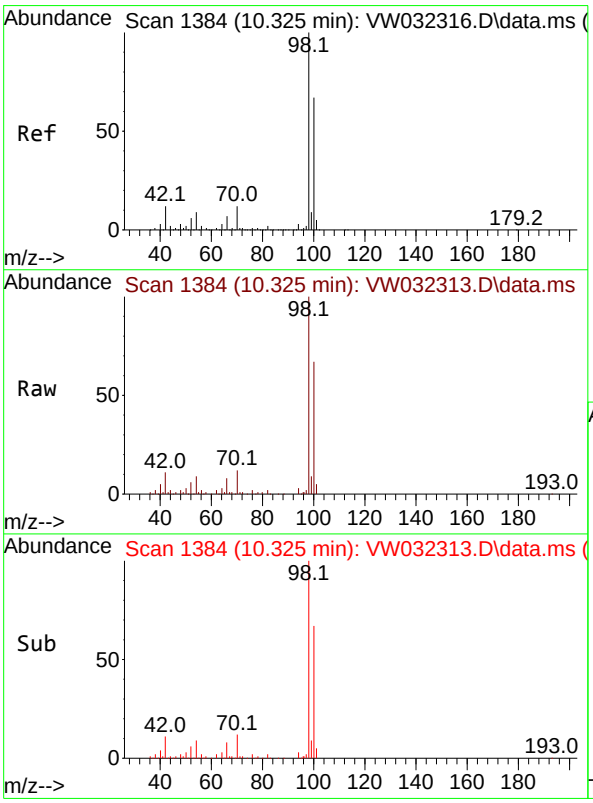
Ion	Ratio	Lower	Upper
88	100		
43	30.9	18.0	27.0
58	79.9	55.4	83.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

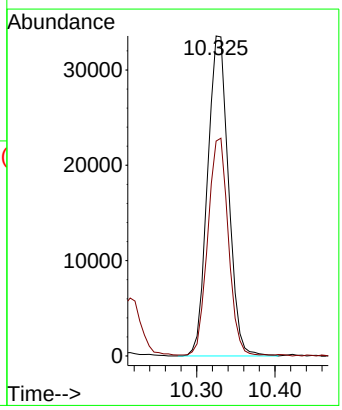
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

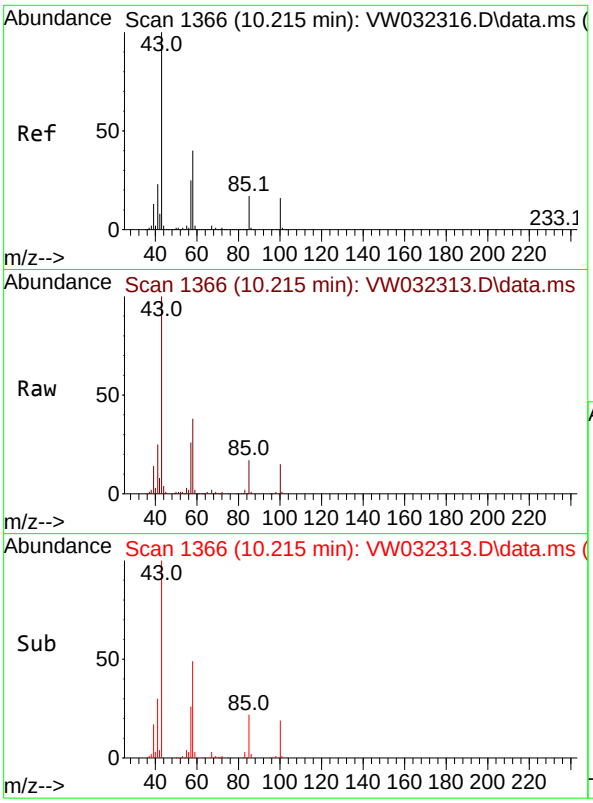


#50
Toluene-d8
Concen: 4.947 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 98 Resp: 62281

Ion	Ratio	Lower	Upper
98	100		
100	66.2	51.4	77.2

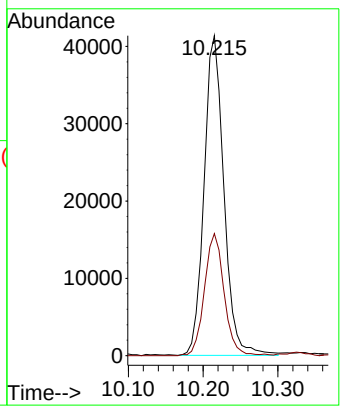




#51
4-Methyl-2-Pentanone
Concen: 23.157 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 43 Resp: 7624

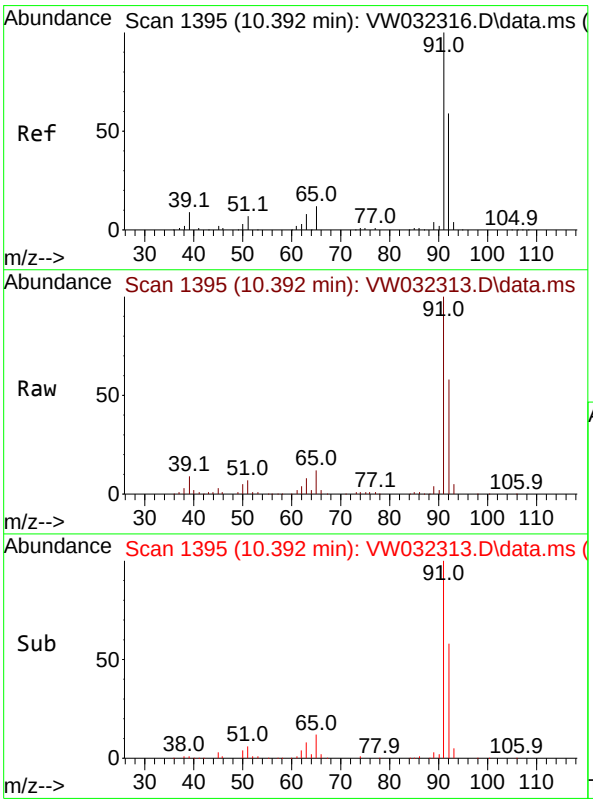
Ion	Ratio	Lower	Upper
43	100		
58	38.0	32.0	48.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

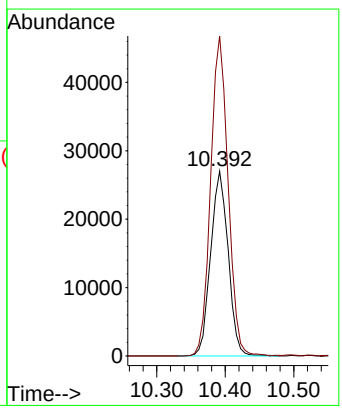
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

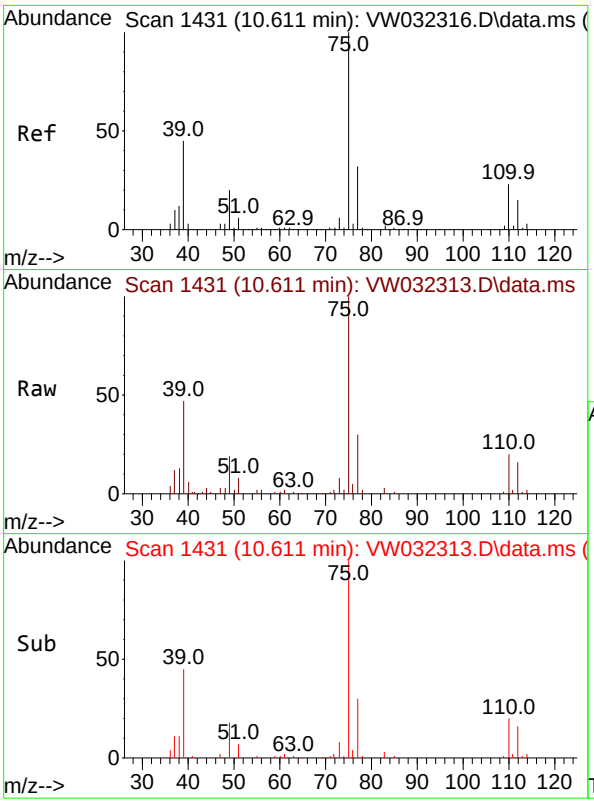


#52
Toluene
Concen: 5.094 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 92 Resp: 47870

Ion	Ratio	Lower	Upper
92	100		
91	172.3	137.5	206.3

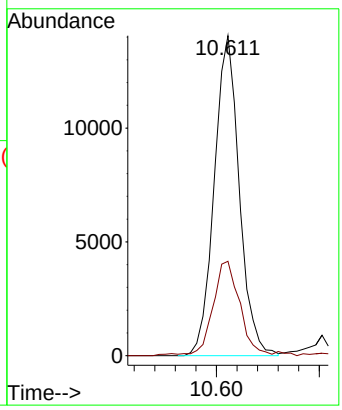




#53
t-1,3-Dichloropropene
Concen: 4.619 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 75 Resp: 2374

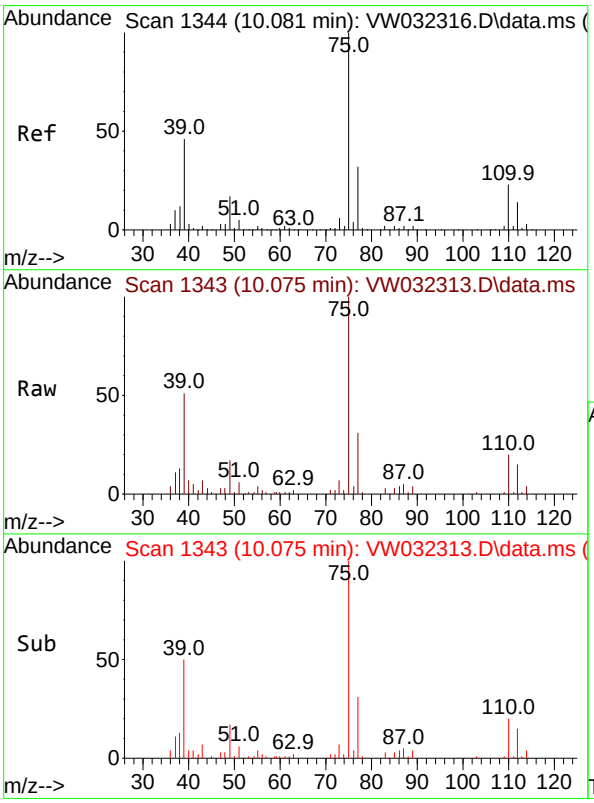
Ion	Ratio	Lower	Upper
75	100		
77	29.1	25.6	38.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

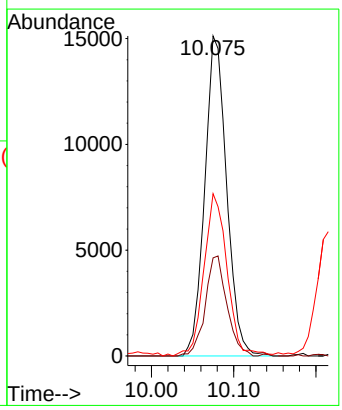
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

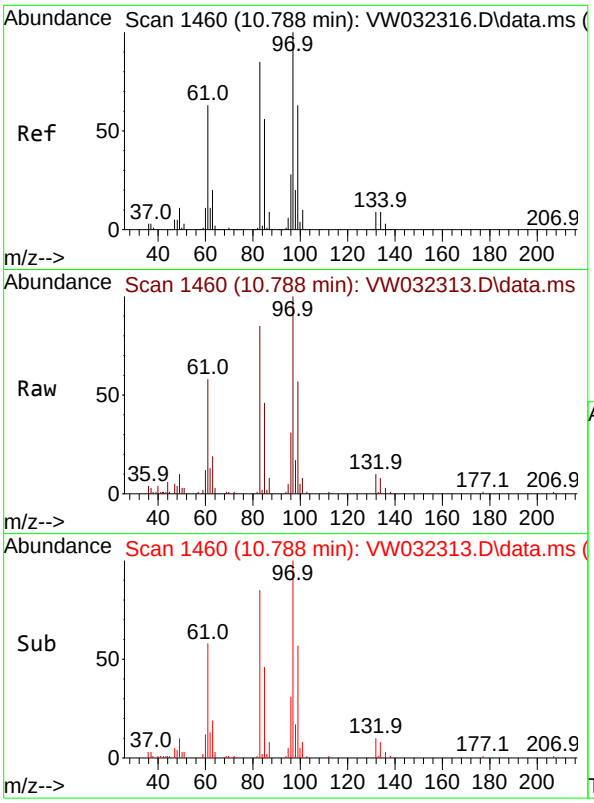


#54
cis-1,3-Dichloropropene
Concen: 4.727 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 75 Resp: 27985

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.1	37.7
39	50.0	43.2	64.8

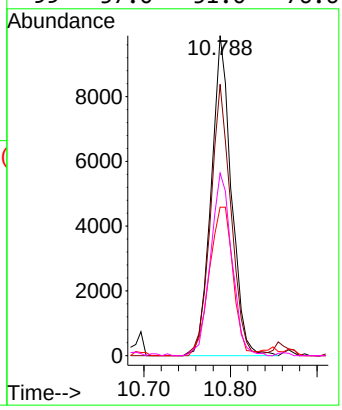




#55
1,1,2-Trichloroethane
Concen: 5.174 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 97 Resp: 1601

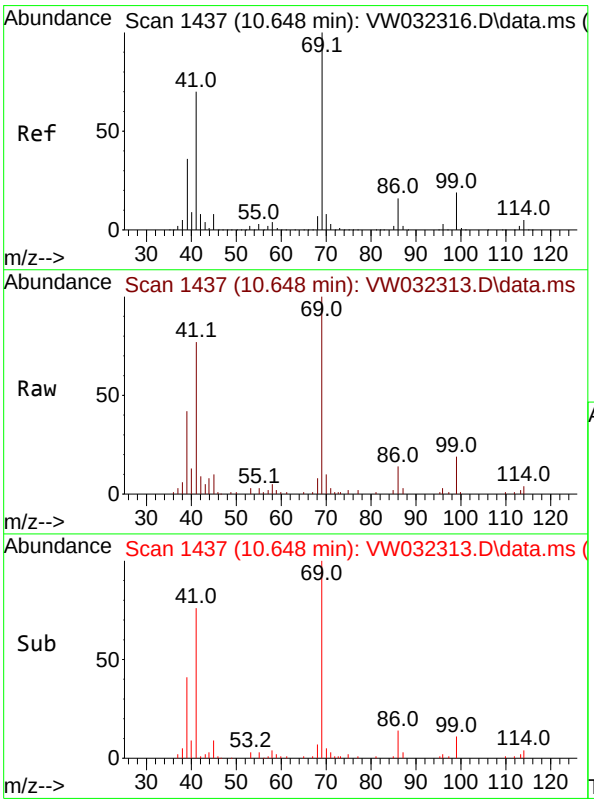
Ion	Ratio	Lower	Upper
97	100		
83	84.8	71.0	106.6
85	46.4	42.8	64.2
99	57.0	51.0	76.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

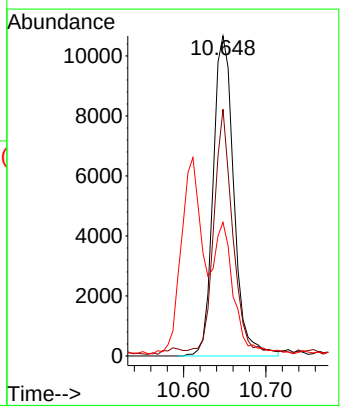
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

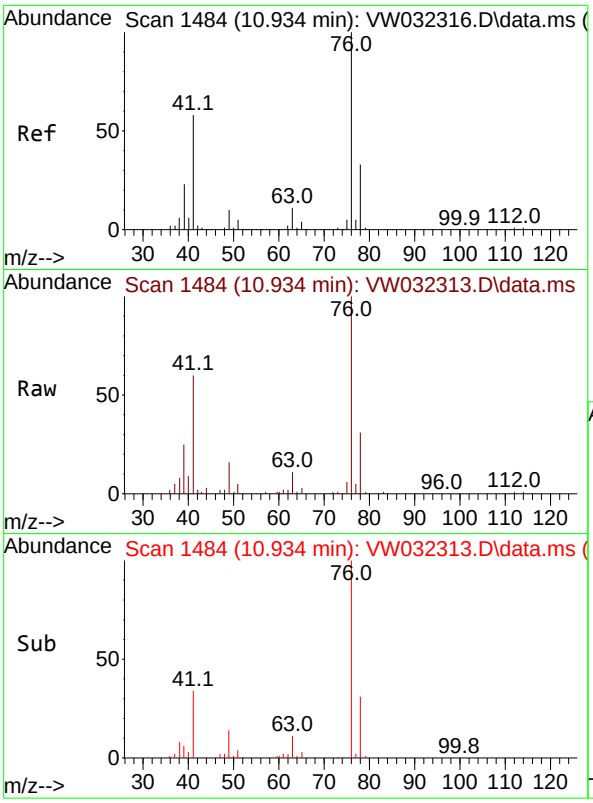


#56
Ethyl methacrylate
Concen: 4.308 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 69 Resp: 18666

Ion	Ratio	Lower	Upper
69	100		
41	69.9	53.2	79.8
39	39.9	32.9	49.3

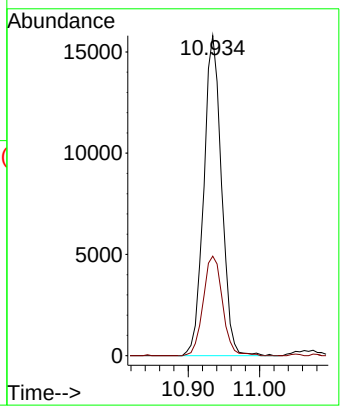




#57
1,3-Dichloropropane
Concen: 4.991 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 76 Resp: 2728

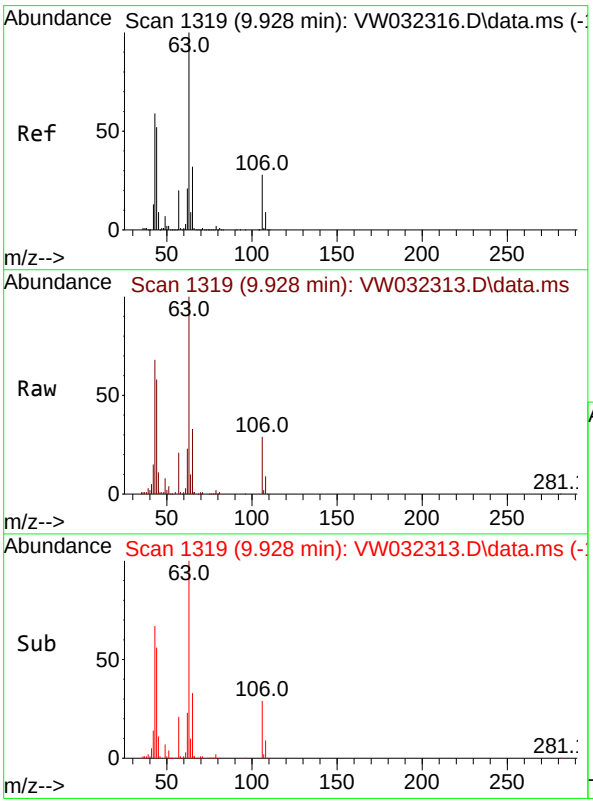
Ion	Ratio	Lower	Upper
76	100		
78	33.8	26.2	39.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

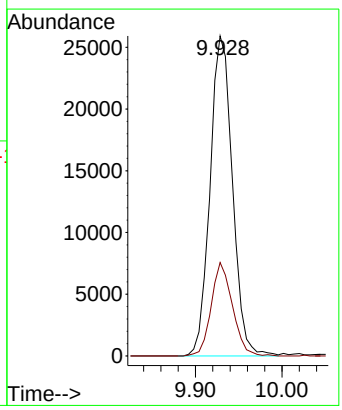
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

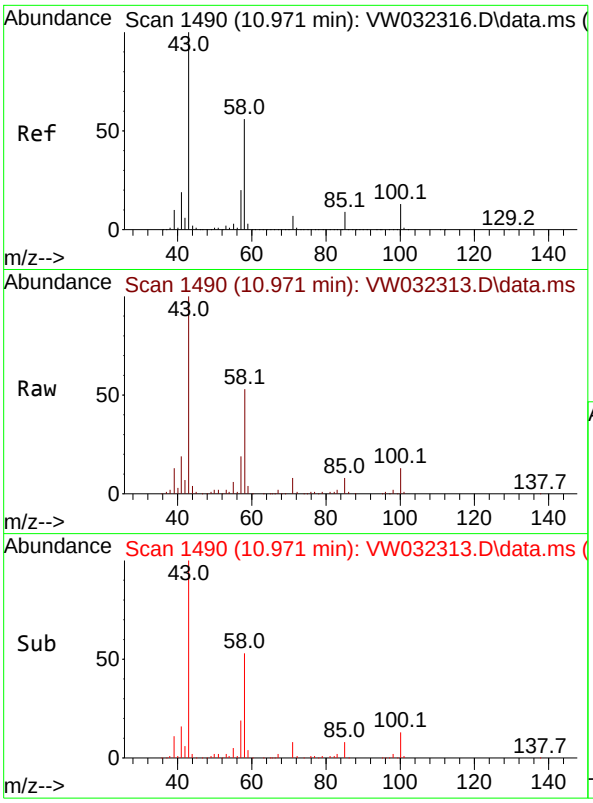


#58
2-Chloroethyl Vinyl ether
Concen: 20.206 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 63 Resp: 46589

Ion	Ratio	Lower	Upper
63	100		
106	27.7	24.3	36.5





#59
2-Hexanone
Concen: 22.879 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

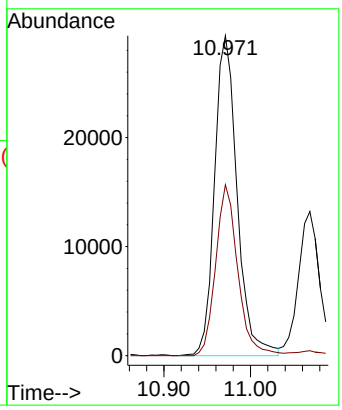
Tgt Ion: 43 Resp: 5312

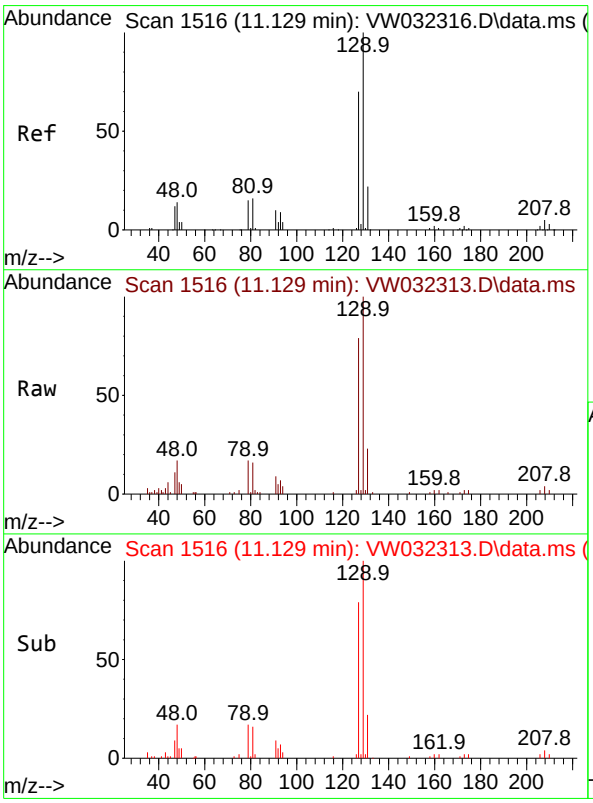
Ion	Ratio	Lower	Upper
43	100		
58	52.2	27.5	82.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

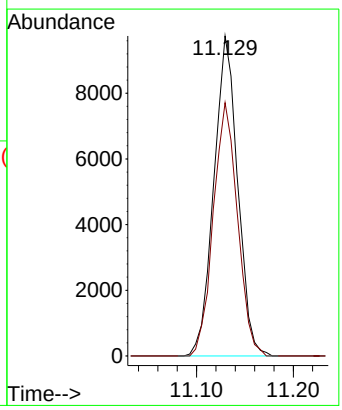


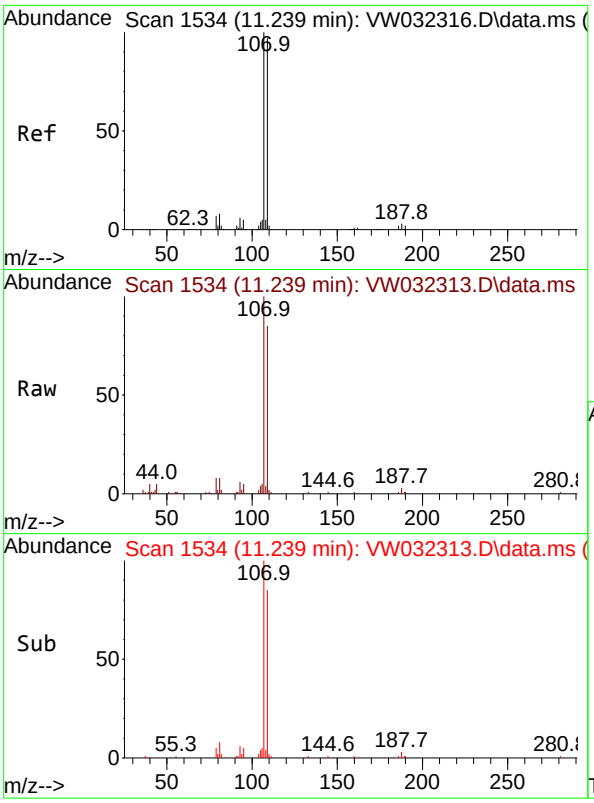


#60
Dibromochloromethane
Concen: 4.744 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:129 Resp: 16674

Ion	Ratio	Lower	Upper
129	100		
127	80.3	38.1	114.5

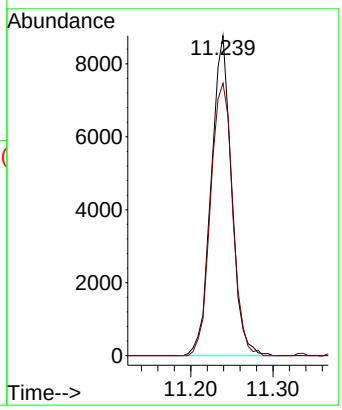




#61
1,2-Dibromoethane
Concen: 4.990 ug/l
RT: 11.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:107 Resp: 1506

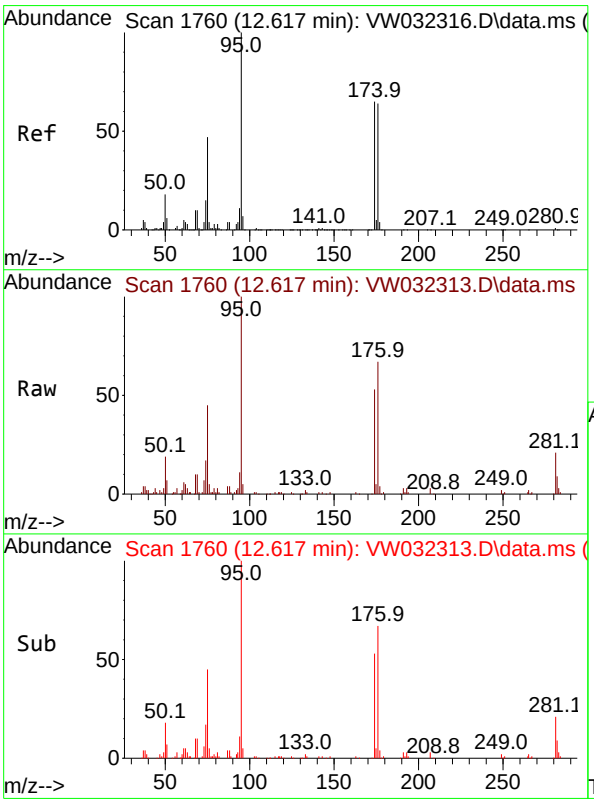
Ion	Ratio	Lower	Upper
107	100		
109	92.3	74.5	111.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

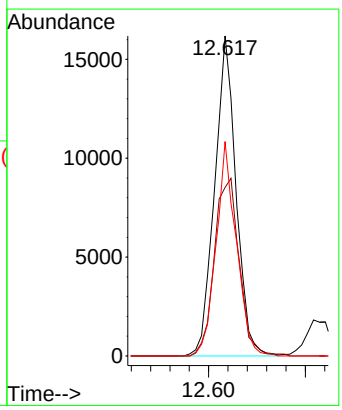
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

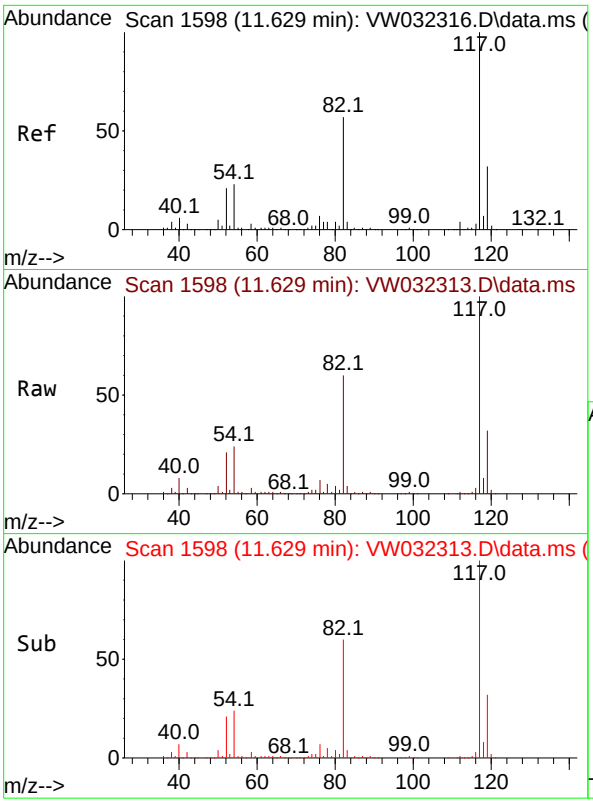


#62
4-Bromofluorobenzene
Concen: 5.229 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 95 Resp: 24882

Ion	Ratio	Lower	Upper
95	100		
174	64.4	0.0	145.6
176	63.2	0.0	140.8

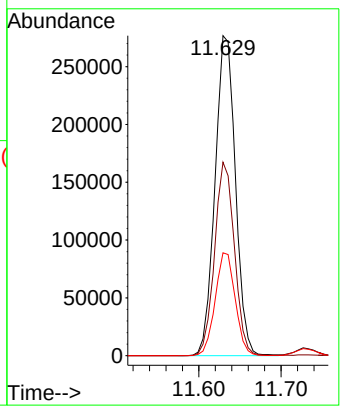




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:117 Resp: 47855

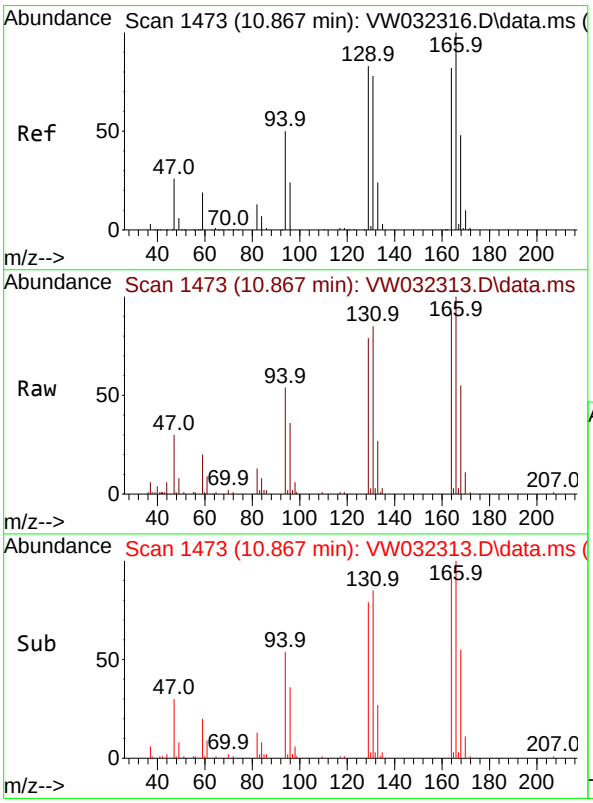
Ion	Ratio	Lower	Upper
117	100		
82	60.5	42.7	64.1
119	32.2	25.2	37.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

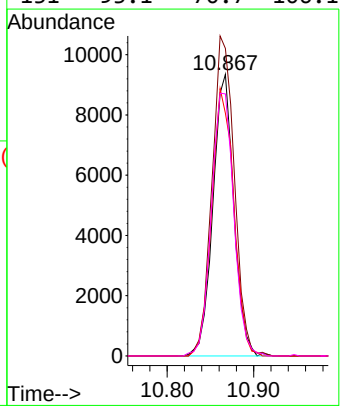
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

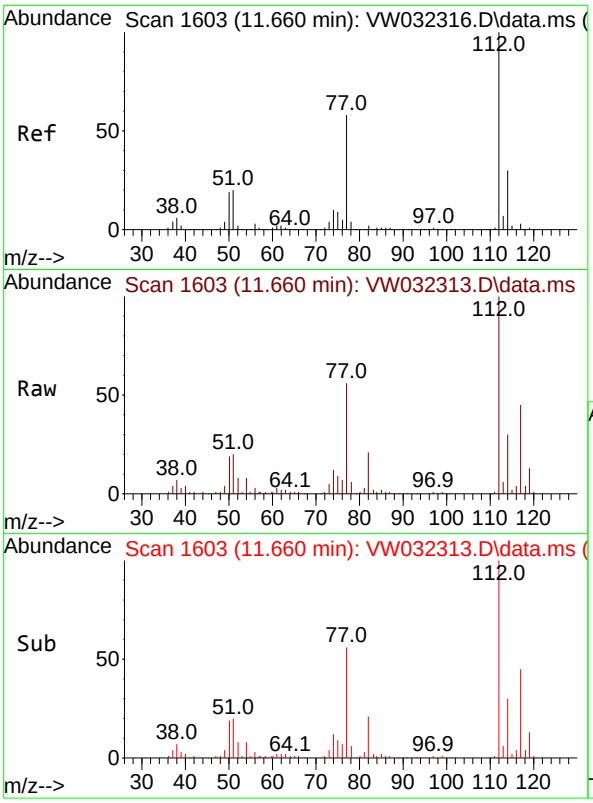


#64
Tetrachloroethene
Concen: 5.461 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:164 Resp: 15638

Ion	Ratio	Lower	Upper
164	100		
166	109.2	97.5	146.3
129	86.2	71.2	106.8
131	93.1	70.7	106.1

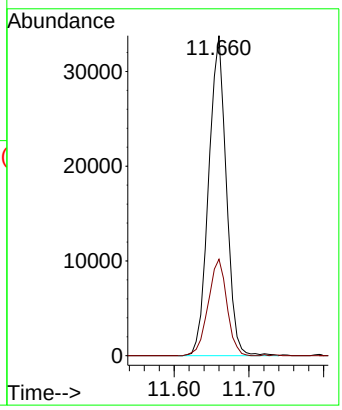




#65
Chlorobenzene
Concen: 5.269 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:112 Resp: 5547

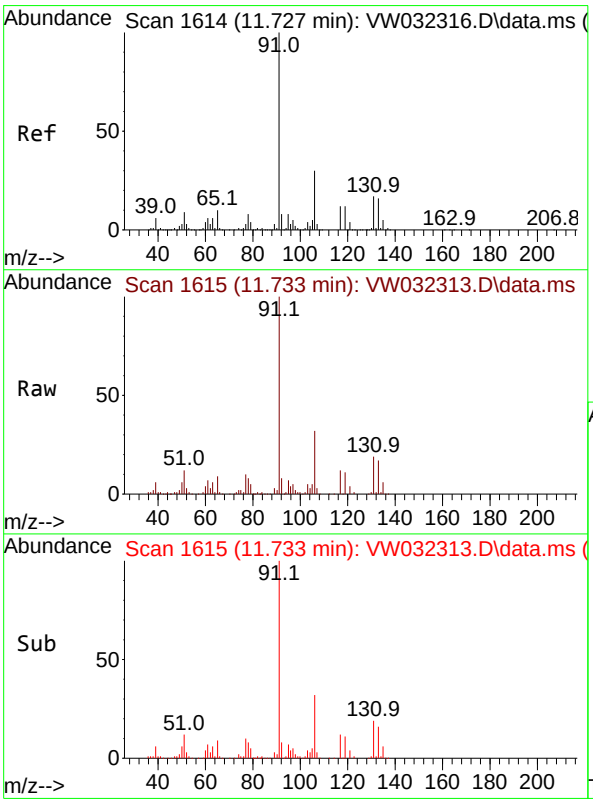
Ion	Ratio	Lower	Upper
112	100		
114	30.1	26.0	39.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

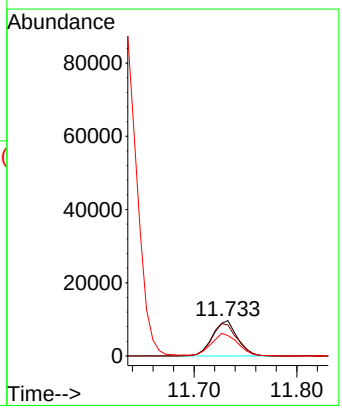
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

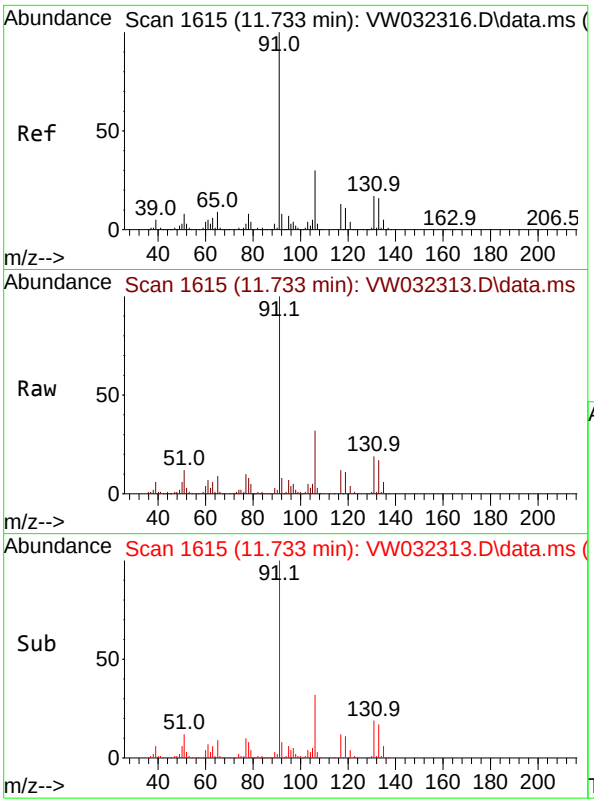


#66
1,1,1,2-Tetrachloroethane
Concen: 4.942 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:131 Resp: 16206

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.7	143.1
119	67.8	32.8	98.3

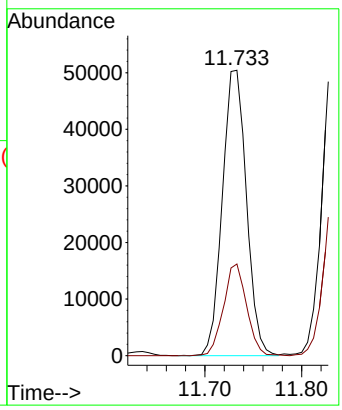




#67
Ethyl Benzene
Concen: 4.969 ug/l
RT: 11.733 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 91 Resp: 8721

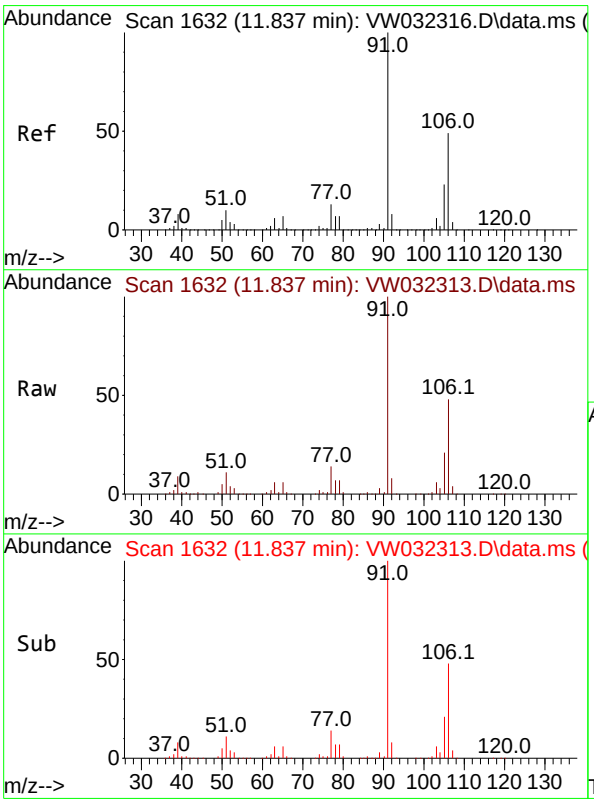
Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.3	37.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

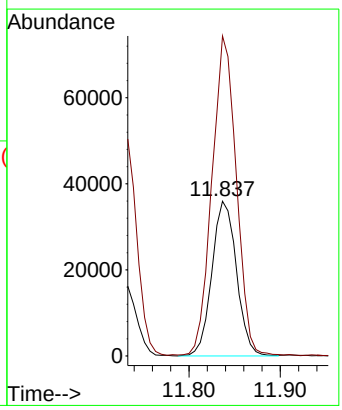
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

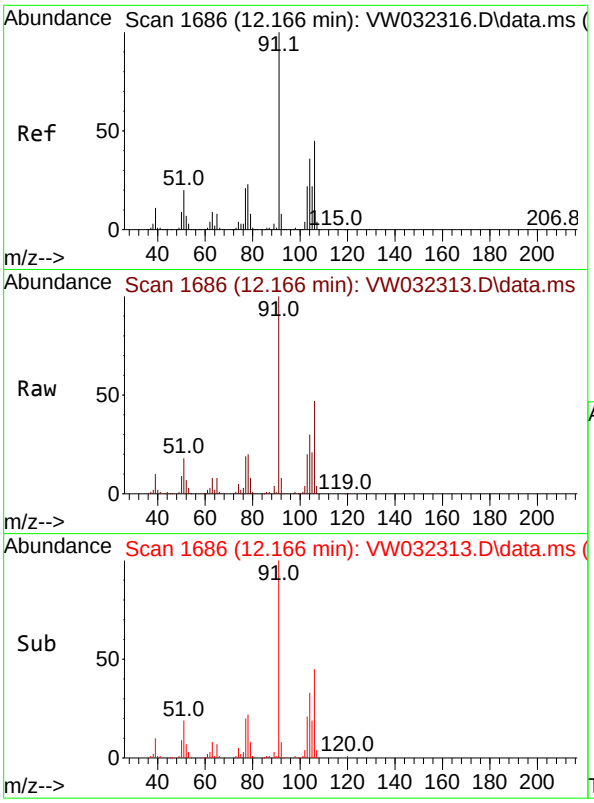


#68
m/p-Xylenes
Concen: 9.951 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:106 Resp: 67346

Ion	Ratio	Lower	Upper
106	100		
91	204.4	164.2	246.2

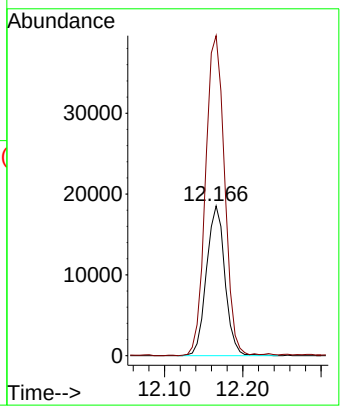




#69
o-Xylene
Concen: 4.782 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:106 Resp: 3026

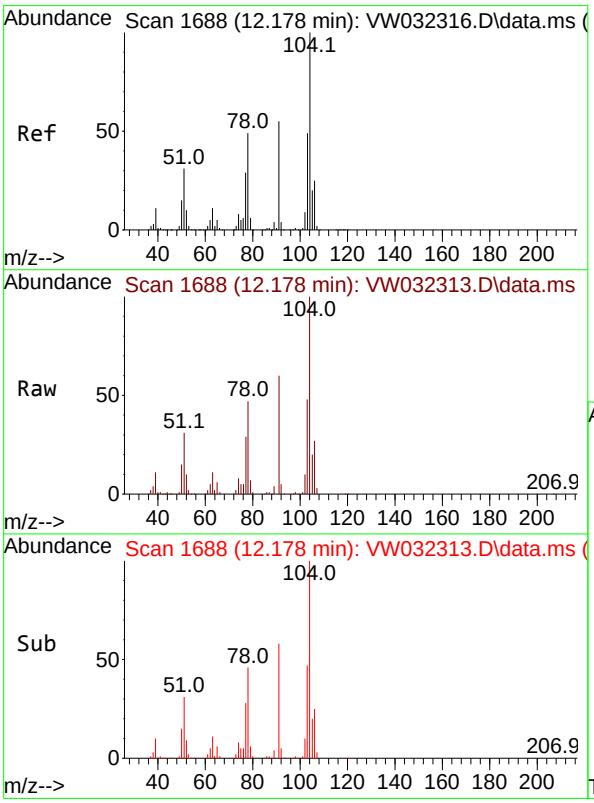
Ion	Ratio	Lower	Upper
106	100		
91	220.9	108.7	326.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

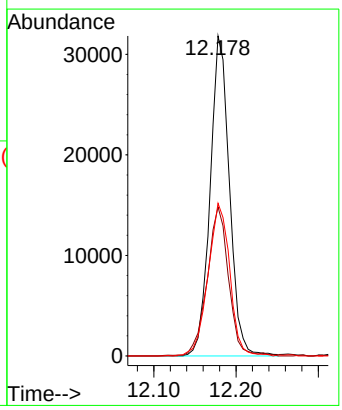
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

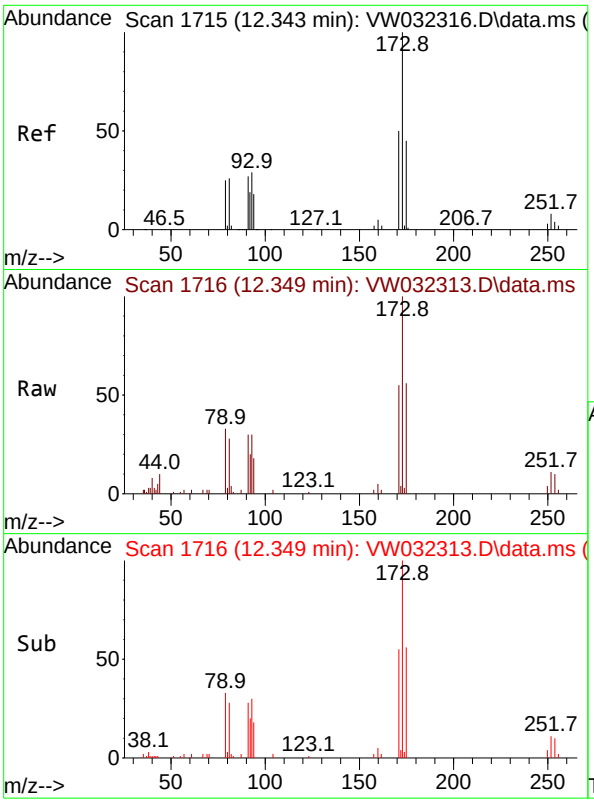


#70
Styrene
Concen: 4.719 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:104 Resp: 52147

Ion	Ratio	Lower	Upper
104	100		
78	51.5	41.6	62.4
103	53.5	44.8	67.2

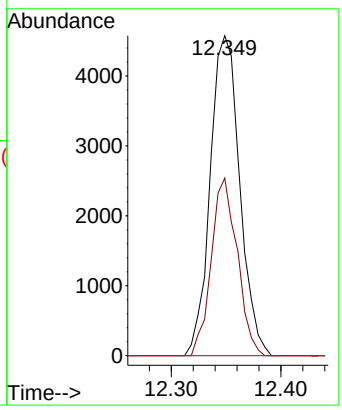




#71
Bromoform
Concen: 4.557 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:173 Resp: 856

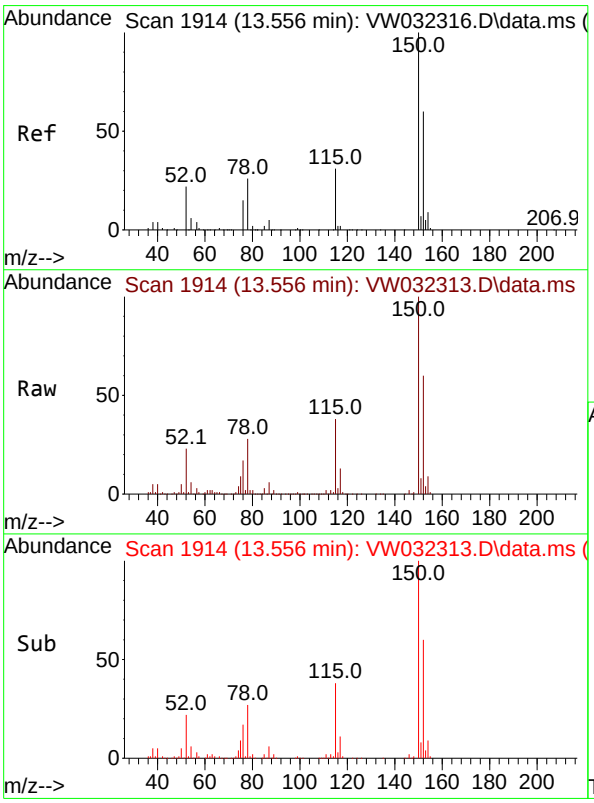
Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.9	74.7
254	0.0	0.2	0.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

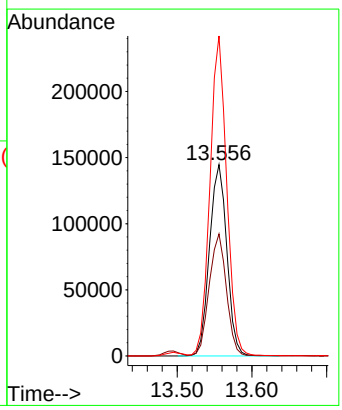
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

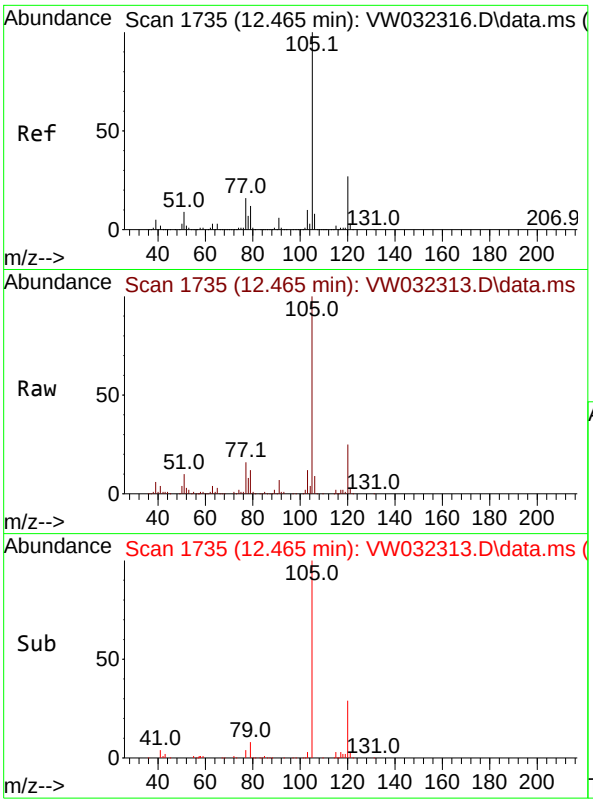


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:152 Resp: 234250

Ion	Ratio	Lower	Upper
152	100		
115	63.3	31.8	95.4
150	160.2	0.0	343.0

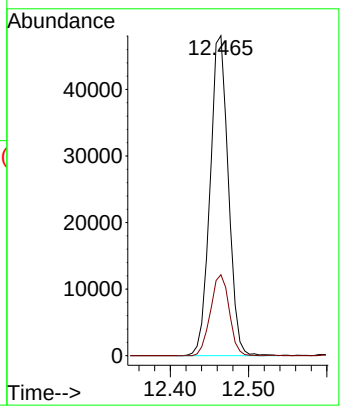




#73
Isopropylbenzene
Concen: 4.847 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:105 Resp: 7767

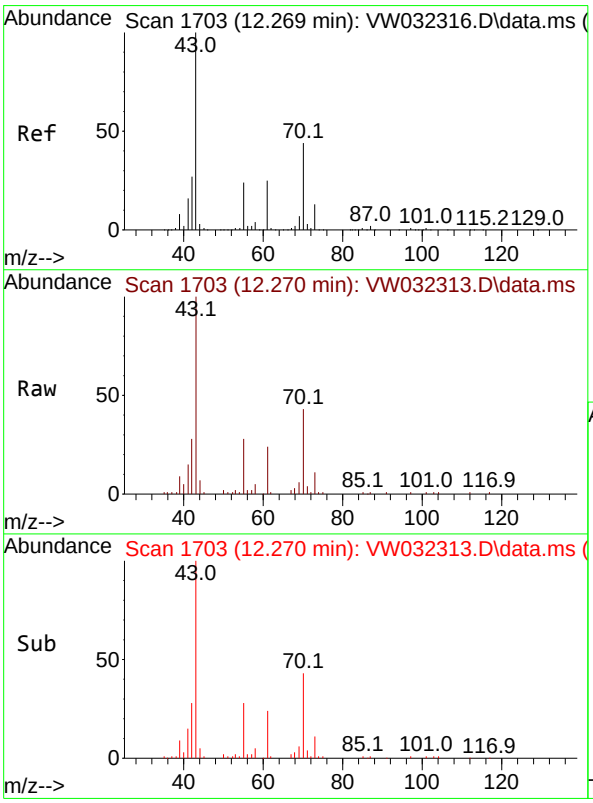
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.0	38.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

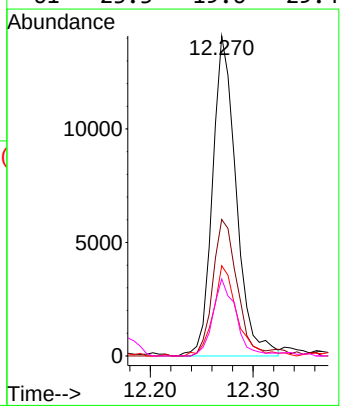
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

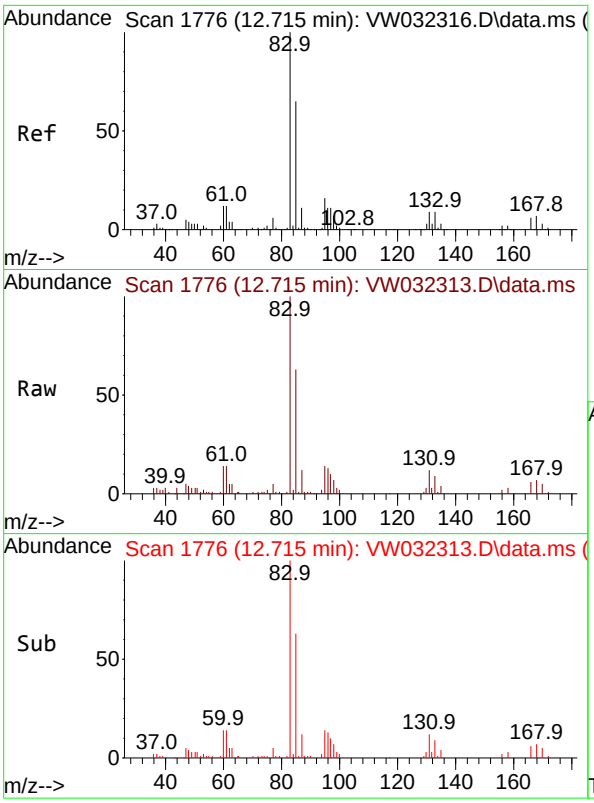


#74
N-amyl acetate
Concen: 4.416 ug/l
RT: 12.270 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 43 Resp: 22577

Ion	Ratio	Lower	Upper
43	100		
70	43.3	35.3	52.9
55	28.4	19.9	29.9
61	23.3	19.6	29.4

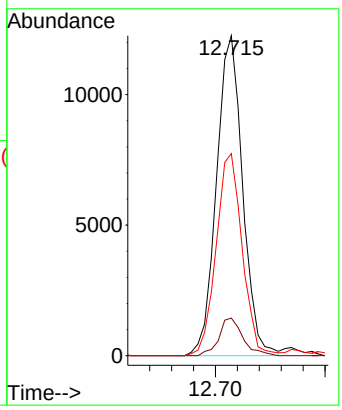




#75
1,1,2,2-Tetrachloroethane
Concen: 5.102 ug/l
RT: 12.715 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 83 Resp: 2030

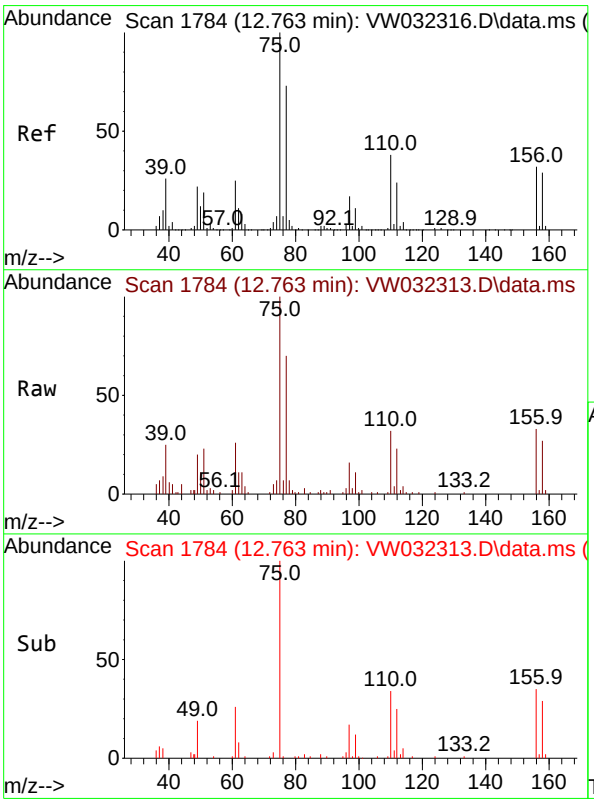
Ion	Ratio	Lower	Upper
83	100		
131	10.8	5.1	15.4
85	62.9	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

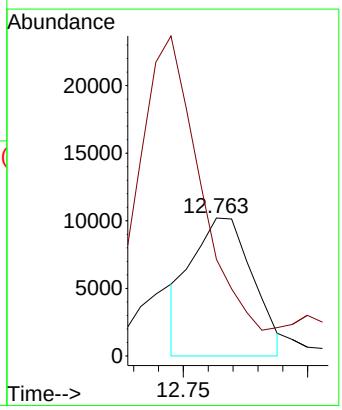
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

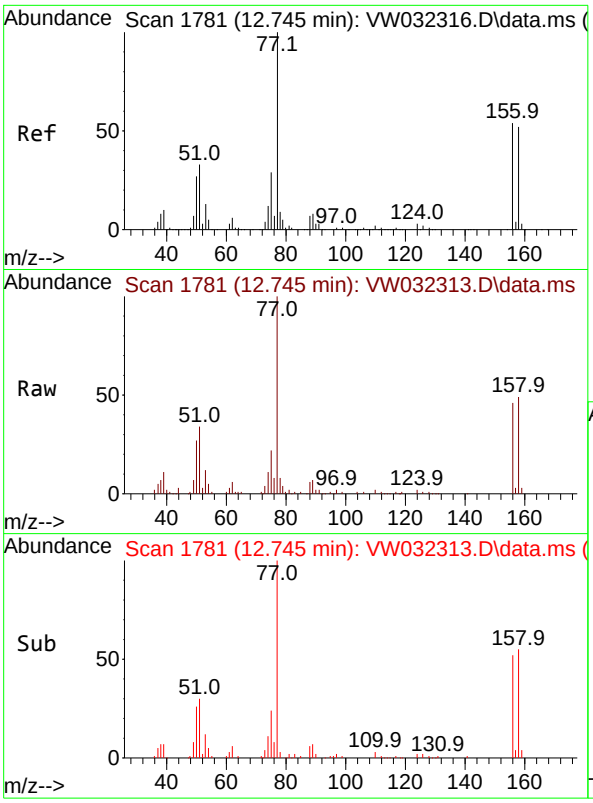


#76
1,2,3-Trichloropropane
Concen: 5.665 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 75 Resp: 17510

Ion	Ratio	Lower	Upper
75	100		
77	251.5	141.7	425.1

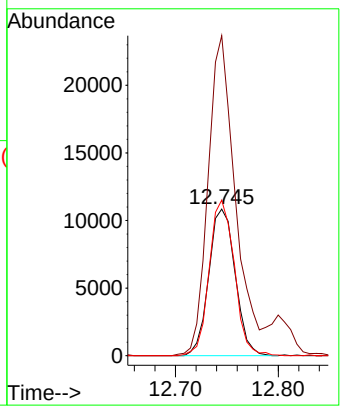




#77
Bromobenzene
Concen: 4.999 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:156 Resp: 1931

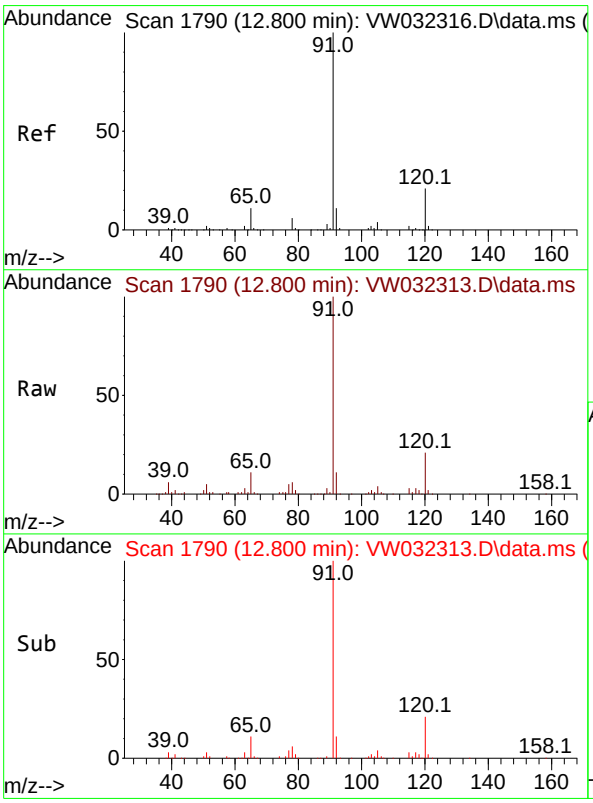
Ion	Ratio	Lower	Upper
156	100		
77	228.1	98.6	295.7
158	101.1	48.4	145.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

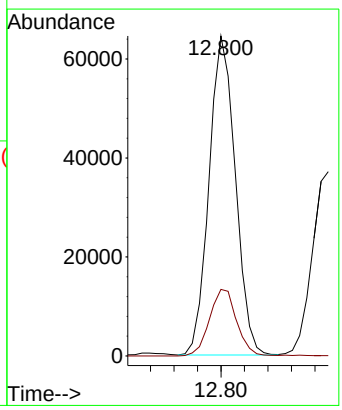
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

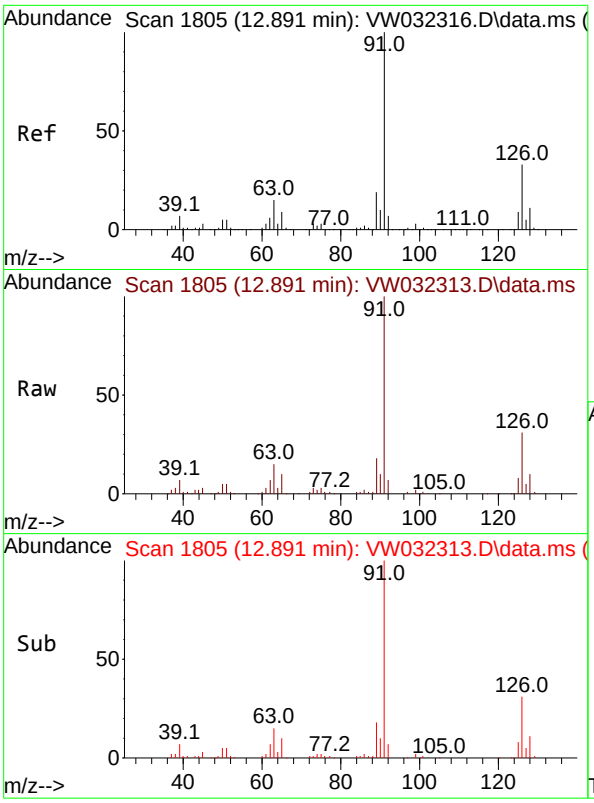


#78
n-propylbenzene
Concen: 5.016 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 91 Resp: 100413

Ion	Ratio	Lower	Upper
91	100		
120	21.5	11.8	35.4

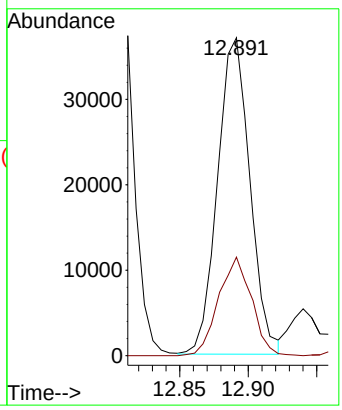




#79
2-Chlorotoluene
Concen: 4.984 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 91 Resp: 6100

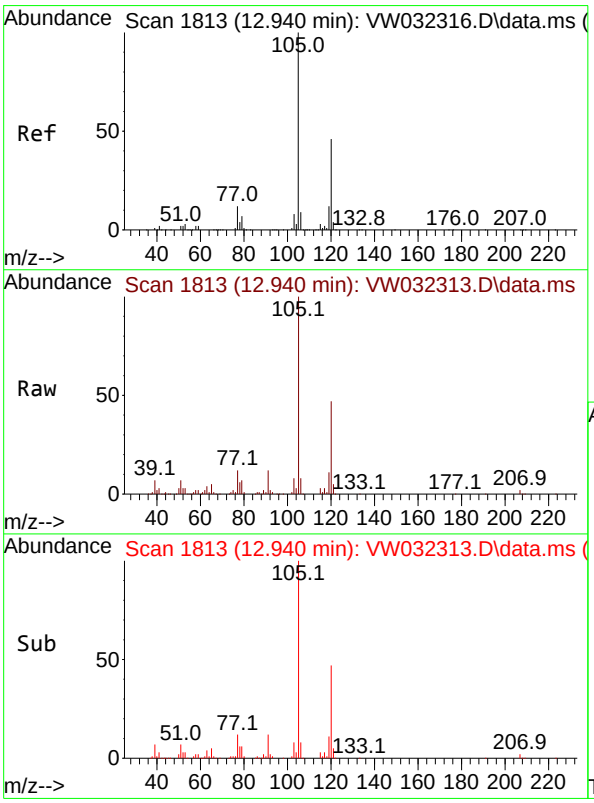
Ion	Ratio	Lower	Upper
91	100		
126	31.7	16.6	49.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

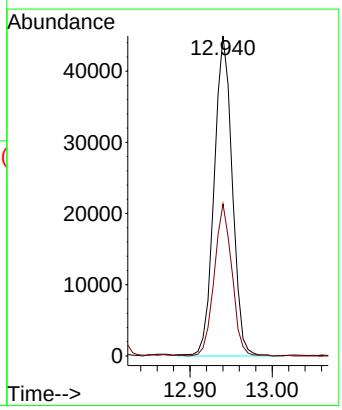
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

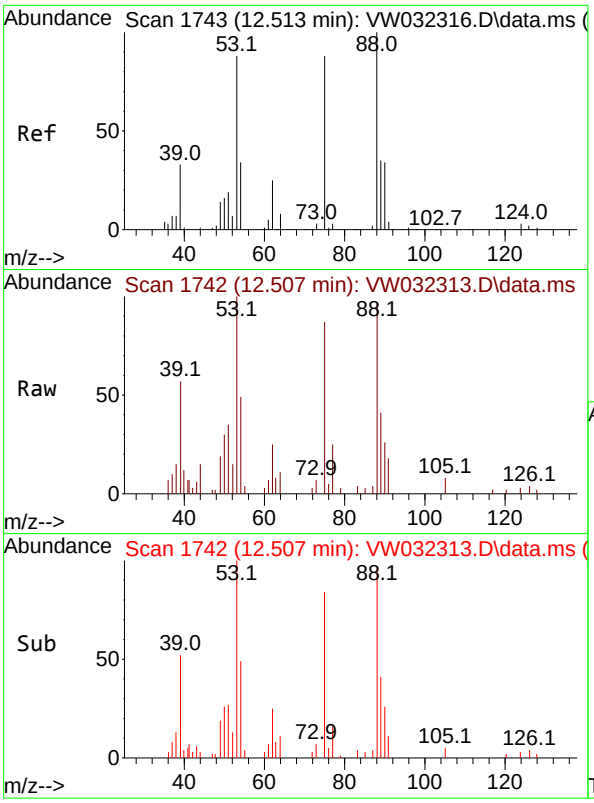


#80
1,3,5-Trimethylbenzene
Concen: 4.969 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:105 Resp: 68864

Ion	Ratio	Lower	Upper
105	100		
120	46.2	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 4.059 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

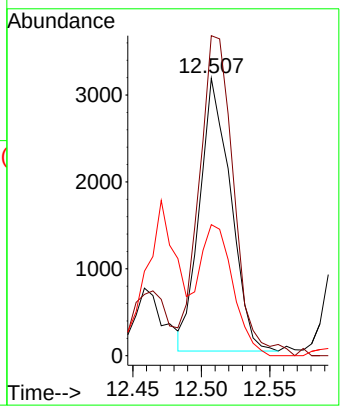
Tgt Ion: 75 Resp: 493

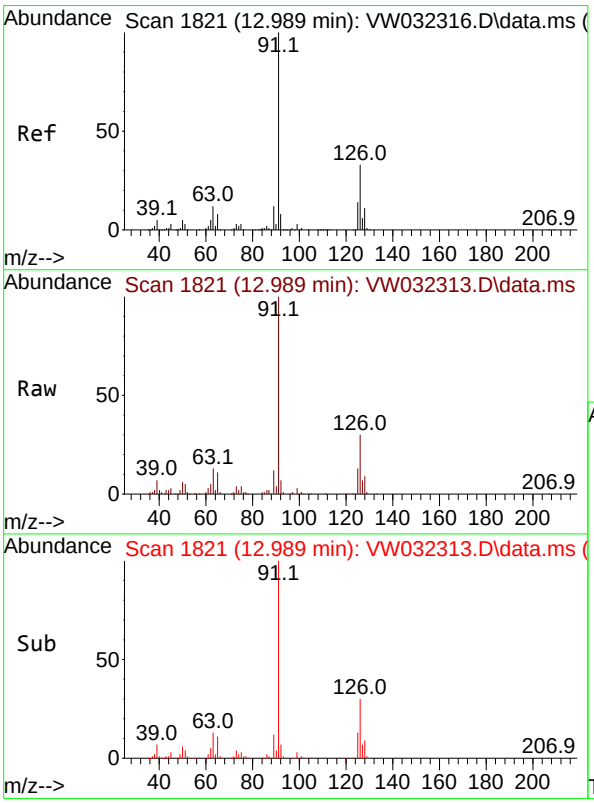
Ion	Ratio	Lower	Upper
75	100		
53	131.1	91.0	136.6
89	53.2	39.4	59.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

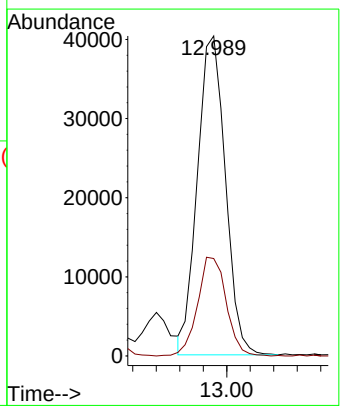


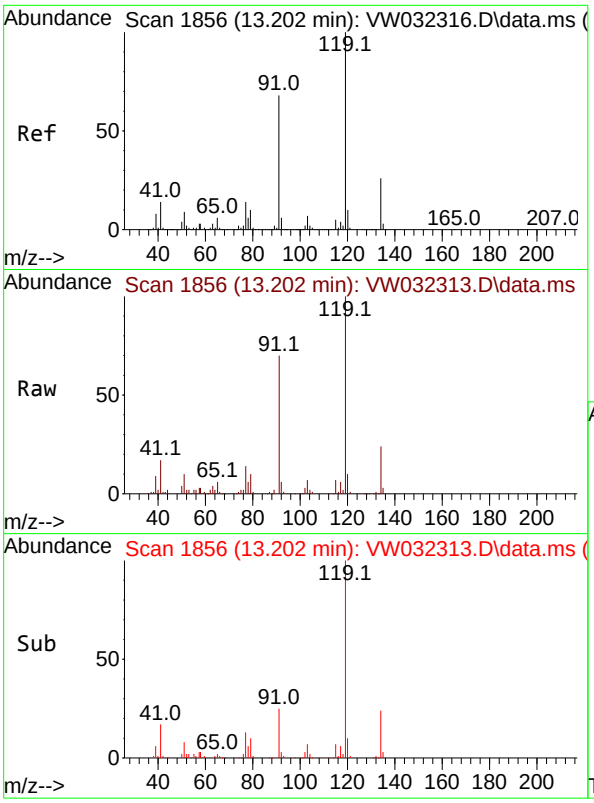


#82
4-Chlorotoluene
Concen: 5.124 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 91 Resp: 66681

Ion	Ratio	Lower	Upper
91	100		
126	31.7	16.1	48.2

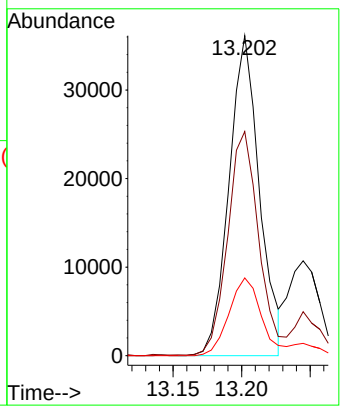




#83
tert-Butylbenzene
Concen: 4.914 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:119 Resp: 5587

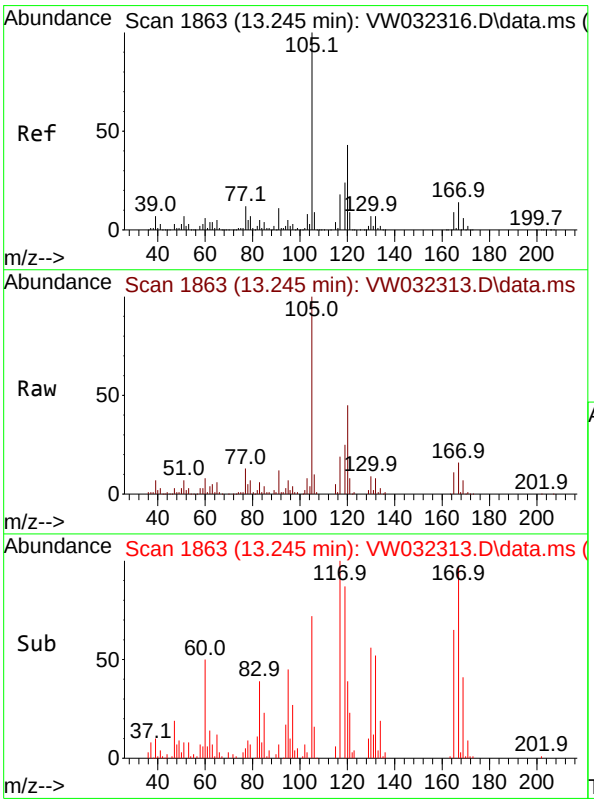
Ion	Ratio	Lower	Upper
119	100		
91	71.8	33.8	101.3
134	25.9	12.5	37.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

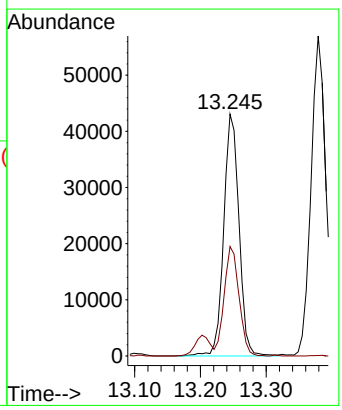
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

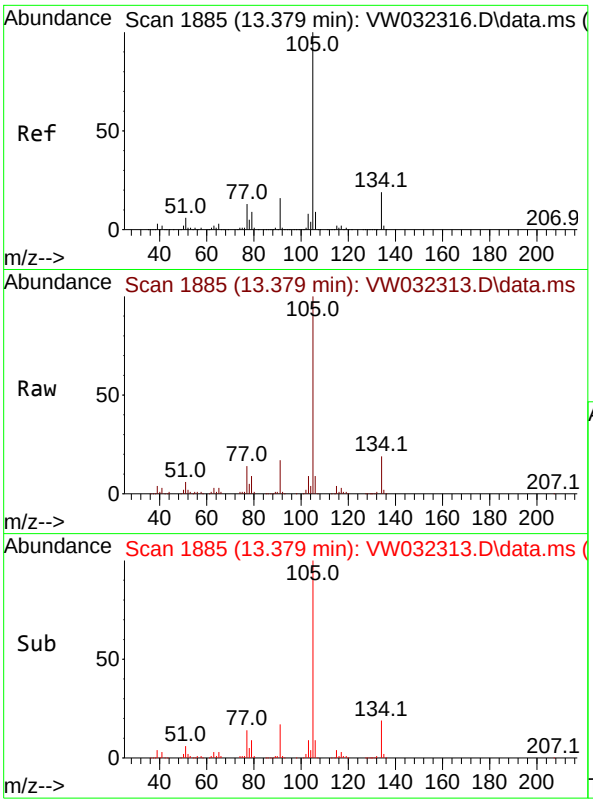


#84
1,2,4-Trimethylbenzene
Concen: 4.943 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:105 Resp: 69654

Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.1	66.3

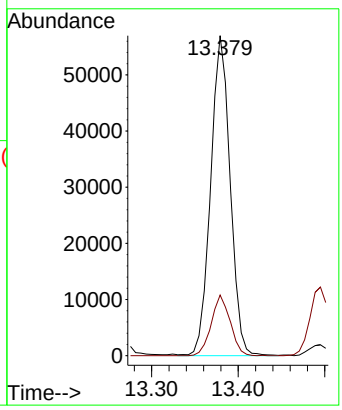




#85
sec-Butylbenzene
Concen: 5.134 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:105 Resp: 8921

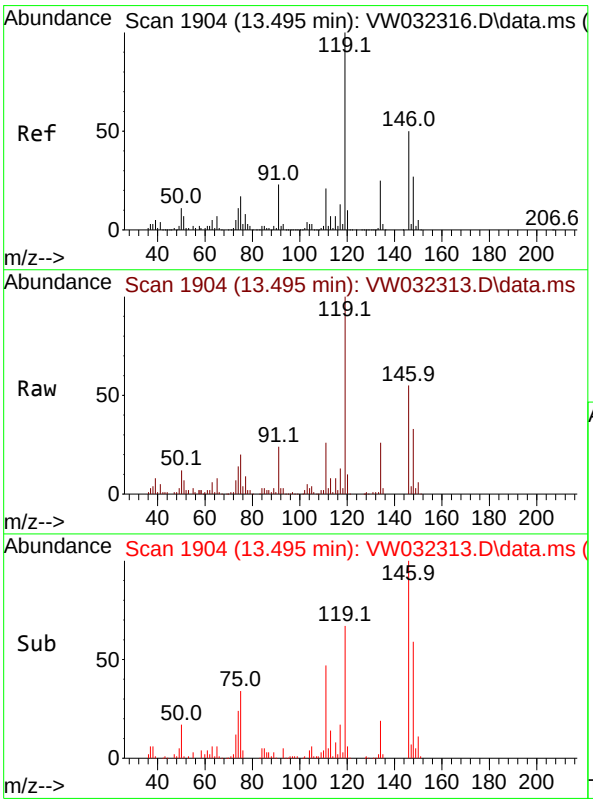
Ion	Ratio	Lower	Upper
105	100		
134	18.3	10.1	30.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

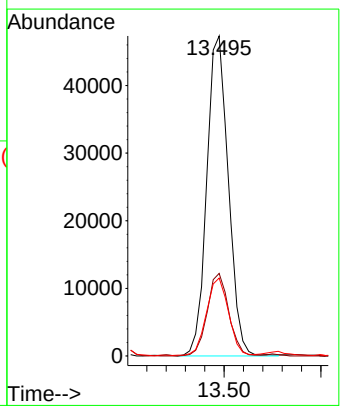
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

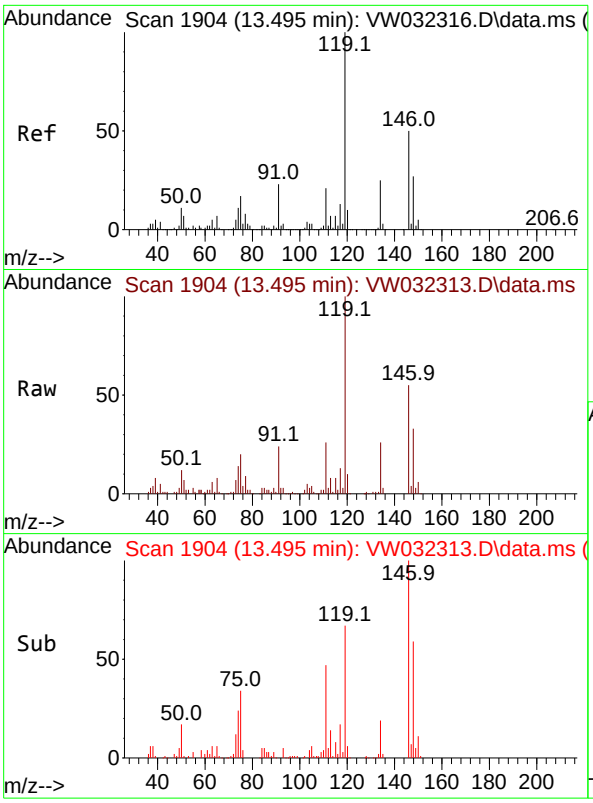


#86
p-Isopropyltoluene
Concen: 5.090 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:119 Resp: 73385

Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.6	37.6
91	24.7	12.4	37.0

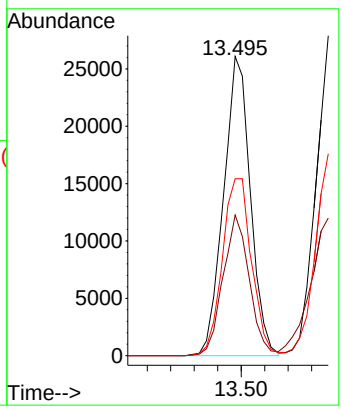




#87
1,3-Dichlorobenzene
Concen: 5.284 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:146 Resp: 4133

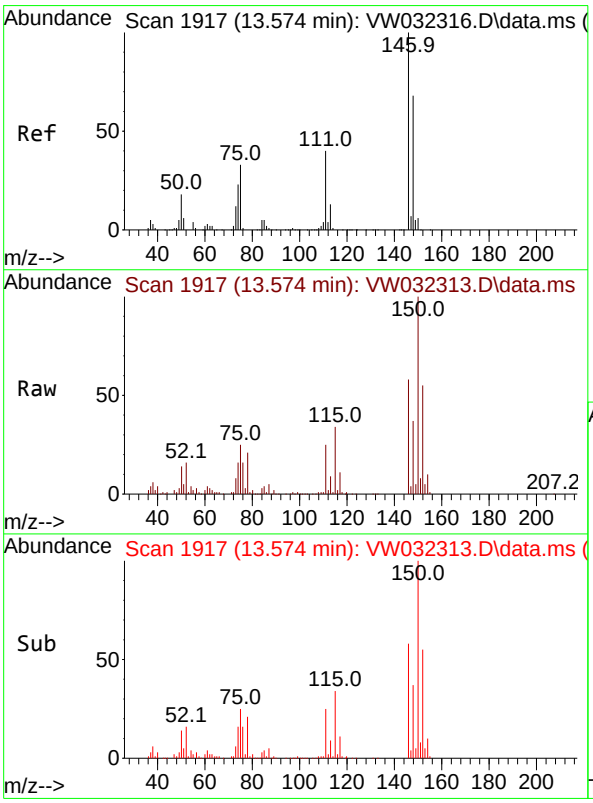
Ion	Ratio	Lower	Upper
146	100		
111	46.2	20.6	61.9
148	64.4	30.6	92.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

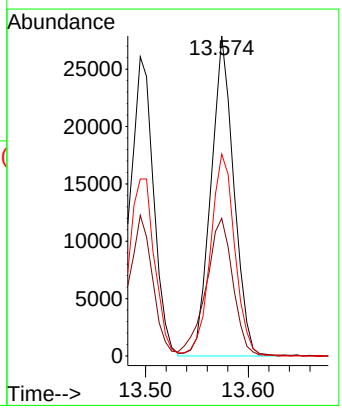
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

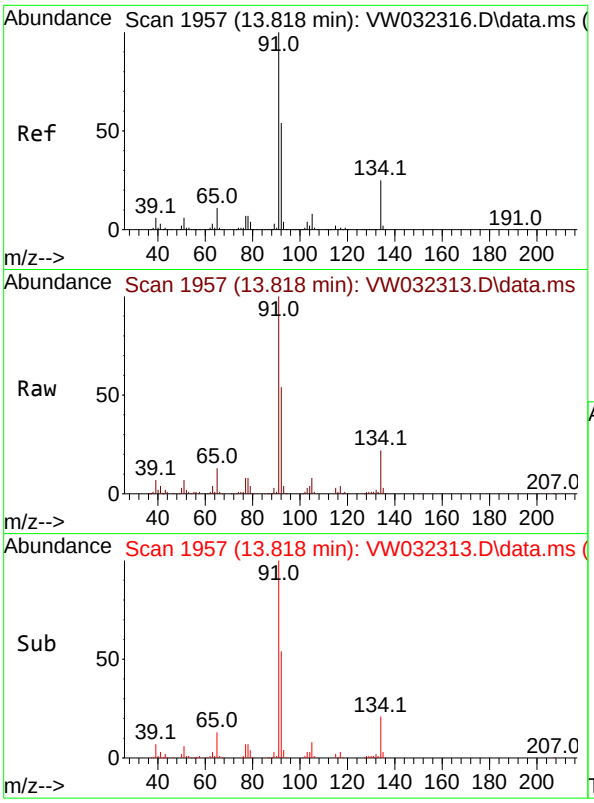


#88
1,4-Dichlorobenzene
Concen: 5.507 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:146 Resp: 43076

Ion	Ratio	Lower	Upper
146	100		
111	50.7	21.3	63.7
148	67.2	33.4	100.1

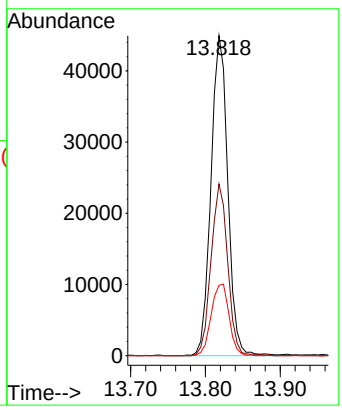




#89
n-Butylbenzene
Concen: 5.006 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 91 Resp: 7046

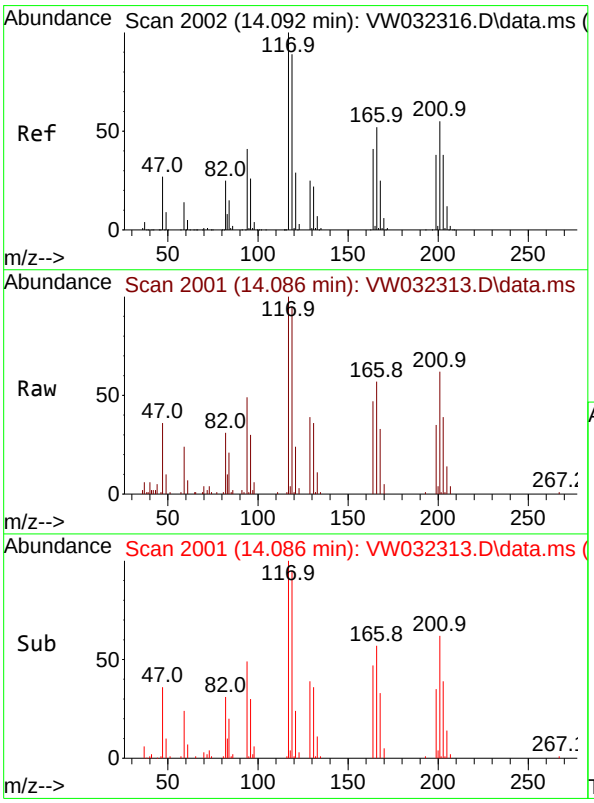
Ion	Ratio	Lower	Upper
91	100		
92	53.1	27.0	81.0
134	23.8	13.1	39.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

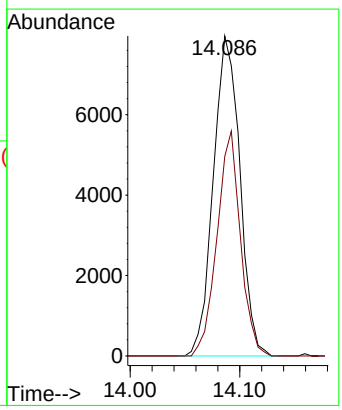
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

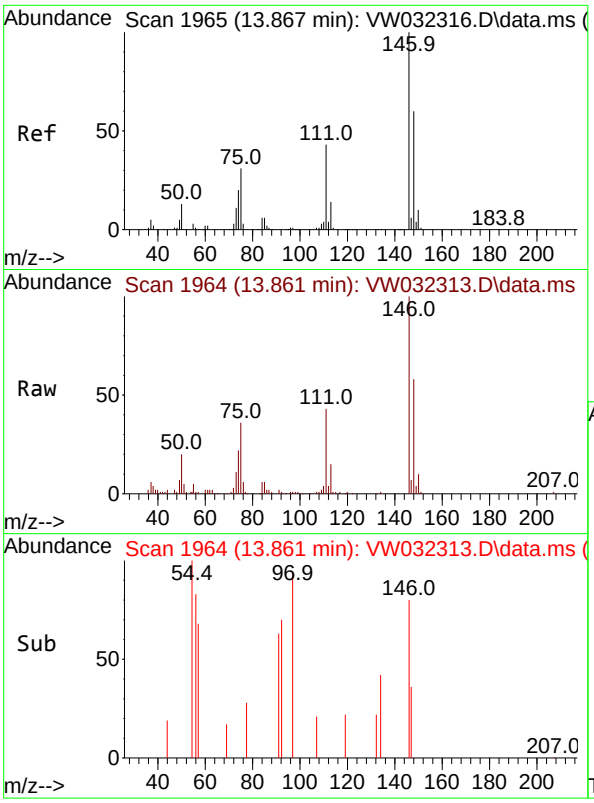


#90
Hexachloroethane
Concen: 5.178 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:117 Resp: 13382

Ion	Ratio	Lower	Upper
117	100		
201	62.2	32.8	98.4

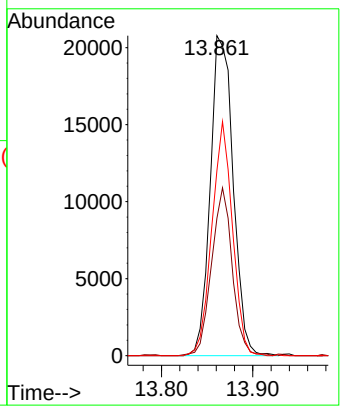




#91
1,2-Dichlorobenzene
Concen: 5.104 ug/l
RT: 13.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:146 Resp: 3609

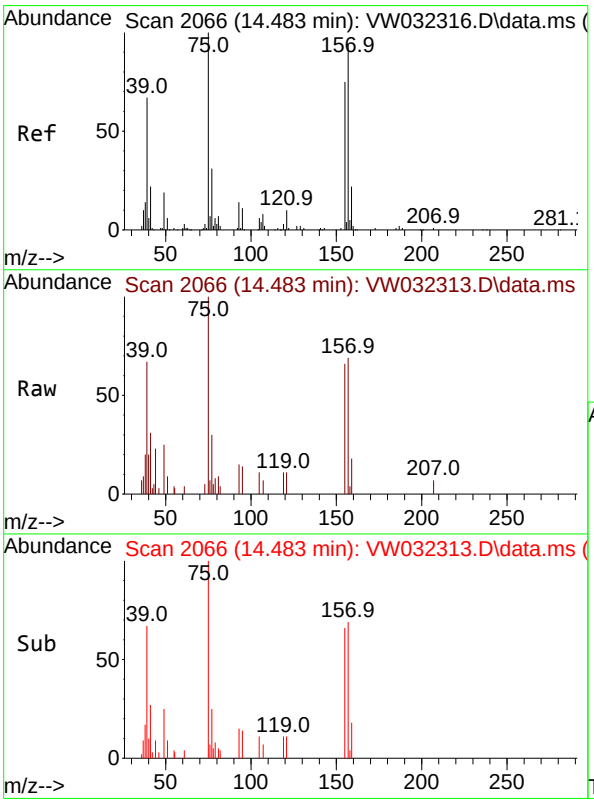
Ion	Ratio	Lower	Upper
146	100		
111	47.4	23.4	70.0
148	65.9	34.1	102.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

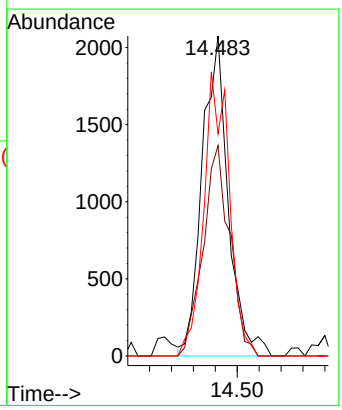
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

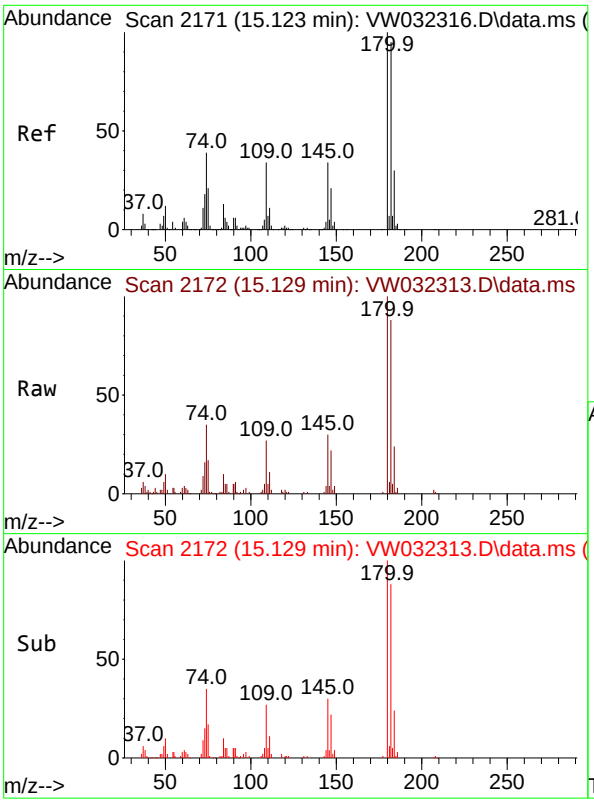


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.914 ug/l
RT: 14.483 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion: 75 Resp: 3424

Ion	Ratio	Lower	Upper
75	100		
155	67.6	40.8	122.5
157	87.1	51.8	155.4

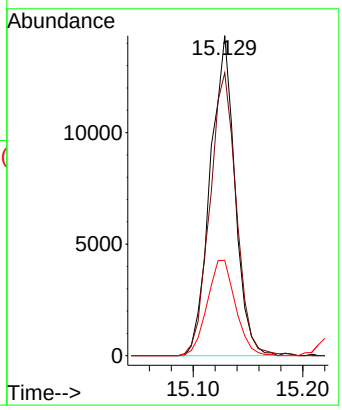




#93
1,2,4-Trichlorobenzene
Concen: 5.279 ug/l
RT: 15.129 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:180 Resp: 2238

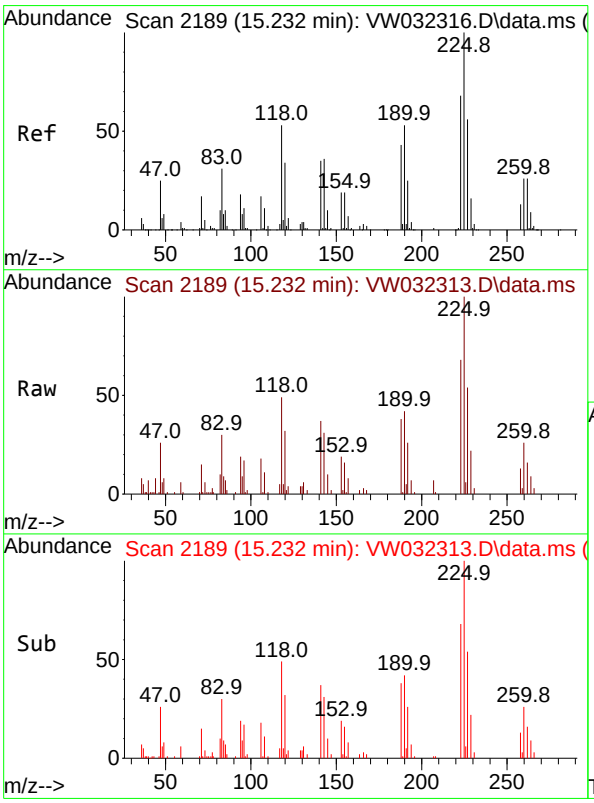
Ion	Ratio	Lower	Upper
180	100		
182	94.9	47.4	142.2
145	34.2	16.4	49.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

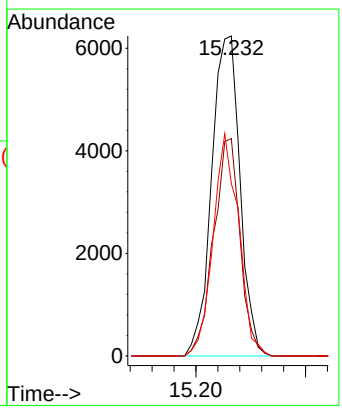
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

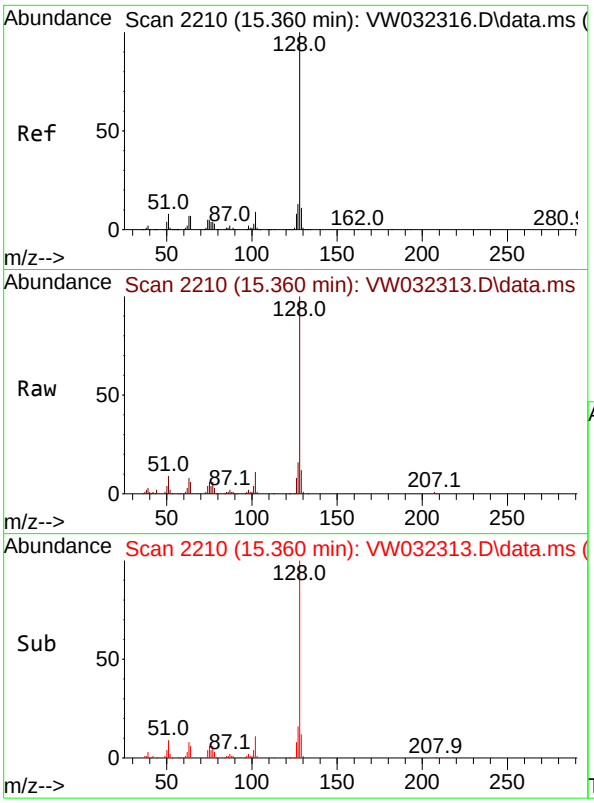


#94
Hexachlorobutadiene
Concen: 5.775 ug/l
RT: 15.232 min Scan# 2189
Delta R.T. 0.006 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:225 Resp: 11196

Ion	Ratio	Lower	Upper
225	100		
223	63.5	29.8	89.3
227	62.7	30.5	91.5

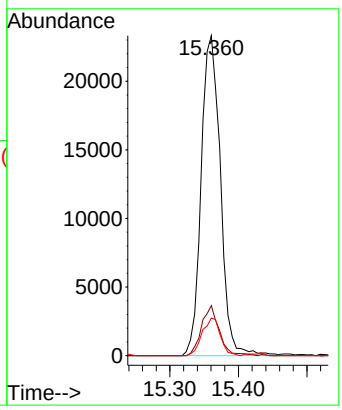




#95
Naphthalene
Concen: 4.481 ug/l
RT: 15.360 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:128 Resp: 4562

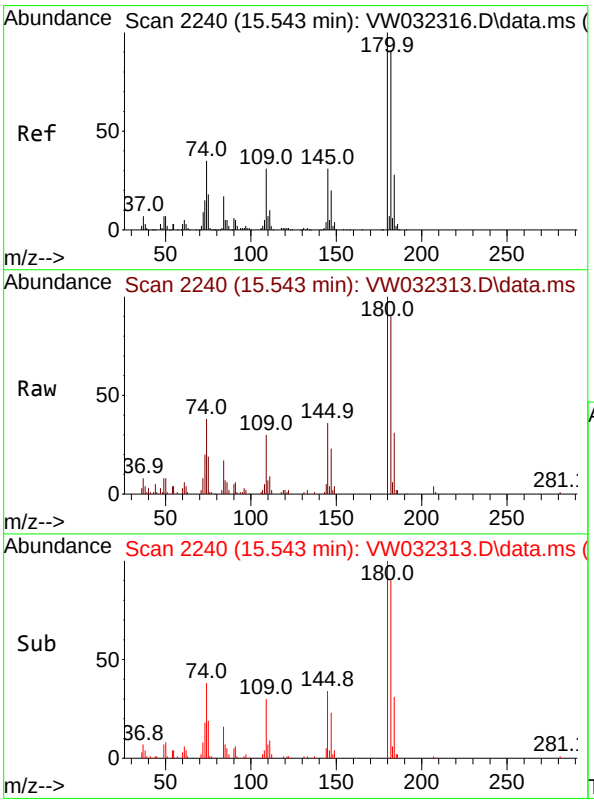
Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.6	16.0
129	11.1	8.4	12.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

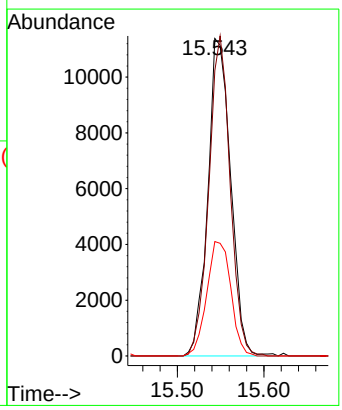
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 5.236 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. 0.000 min
Lab File: VW032313.D
Acq: 01 Oct 2025 13:12

Tgt Ion:180 Resp: 20926

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.7	143.1
145	38.0	17.2	51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032314.D
Acq On : 01 Oct 2025 13:34
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:13:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	7.959	168	280850	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	8.855	114	525265	50.000	ug/l		0.00
63) Chlorobenzene-d5	11.629	117	471729	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	242027	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	8.319	65	42595	10.398	ug/l		0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	20.800%#			
35) Dibromofluoromethane	7.898	113	35230	10.357	ug/l		0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	20.720%#			
50) Toluene-d8	10.325	98	126526	10.078	ug/l		0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	20.160%#			
62) 4-Bromofluorobenzene	12.617	95	47150	9.936	ug/l		0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	19.880%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	2.039	85	19283	10.941	ug/l		98
3) Chloromethane	2.259	50	29583	10.879	ug/l		97
4) Vinyl Chloride	2.405	62	35737	11.008	ug/l		98
5) Bromomethane	2.826	94	26494	11.105	ug/l		90
6) Chloroethane	2.972	64	22994	10.728	ug/l		98
7) Trichlorofluoromethane	3.308	101	25472	10.479	ug/l		99
8) Diethyl Ether	3.722	74	22779	10.814	ug/l		86
9) 1,1,2-Trichlorotrifluo...	4.100	101	31968	10.965	ug/l		94
10) Methyl Iodide	4.307	142	43646	10.492	ug/l		98
11) Tert butyl alcohol	5.216	59	17352	55.962	ug/l	#	80
12) 1,1-Dichloroethene	4.082	96	34142	10.786	ug/l		97
13) Acrolein	3.929	56	27390	54.429	ug/l		97
14) Allyl chloride	4.710	41	55724	10.423	ug/l		89
15) Acrylonitrile	5.405	53	56775	51.811	ug/l		99
16) Acetone	4.161	43	64630	56.980	ug/l		98
17) Carbon Disulfide	4.423	76	88918	10.296	ug/l		98
18) Methyl Acetate	4.716	43	33520	10.316	ug/l		98
19) Methyl tert-butyl Ether	5.466	73	65224	10.462	ug/l		97
20) Methylene Chloride	4.960	84	59087	11.634	ug/l		94
21) trans-1,2-Dichloroethene	5.460	96	35963	10.262	ug/l		95
22) Diisopropyl ether	6.344	45	117148	10.536	ug/l	#	94
23) Vinyl Acetate	6.283	43	372258	50.126	ug/l		98
24) 1,1-Dichloroethane	6.246	63	70852	10.489	ug/l		98
25) 2-Butanone	7.197	43	82281	53.263	ug/l		97
26) 2,2-Dichloropropane	7.191	77	36712	10.625	ug/l		99
27) cis-1,2-Dichloroethene	7.191	96	42849	10.178	ug/l		93
28) Bromochloromethane	7.532	49	33043	10.397	ug/l		87
29) Tetrahydrofuran	7.557	42	49488	50.941	ug/l		96
30) Chloroform	7.691	83	71607	10.453	ug/l		98
31) Cyclohexane	7.971	56	62233	10.792	ug/l	#	93
32) 1,1,1-Trichloroethane	7.886	97	51138	10.534	ug/l		97
36) 1,1-Dichloropropene	8.099	75	49414	10.293	ug/l		98
37) Ethyl Acetate	7.276	43	33130	10.368	ug/l		99
38) Carbon Tetrachloride	8.087	117	46310	10.251	ug/l		94
39) Methylcyclohexane	9.343	83	56991	9.842	ug/l		92
40) Benzene	8.337	78	156957	10.431	ug/l		94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032314.D
Acq On : 01 Oct 2025 13:34
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 02 21:13:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	16618	9.650	ug/l		98
42) 1,2-Dichloroethane	8.416	62	52201	10.602	ug/l		99
43) Isopropyl Acetate	8.441	43	56692	10.001	ug/l		98
44) Trichloroethene	9.105	130	36599	10.387	ug/l		87
45) 1,2-Dichloropropane	9.374	63	38953	10.371	ug/l		100
46) Dibromomethane	9.465	93	24036	10.407	ug/l		94
47) Bromodichloromethane	9.654	83	54338	10.286	ug/l		99
48) Methyl methacrylate	9.447	41	27343	9.921	ug/l		94
49) 1,4-Dioxane	9.465	88	6100	193.232	ug/l	#	64
51) 4-Methyl-2-Pentanone	10.215	43	170455	51.916	ug/l		98
52) Toluene	10.392	92	95076	10.146	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	50624	9.878	ug/l		99
54) cis-1,3-Dichloropropene	10.081	75	59970	10.158	ug/l		97
55) 1,1,2-Trichloroethane	10.794	97	32248	10.447	ug/l		95
56) Ethyl methacrylate	10.648	69	42126	9.750	ug/l		93
57) 1,3-Dichloropropane	10.934	76	57249	10.501	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	104587	45.484	ug/l		95
59) 2-Hexanone	10.971	43	118088	50.996	ug/l		98
60) Dibromochloromethane	11.129	129	34371	9.806	ug/l		97
61) 1,2-Dibromoethane	11.233	107	31025	10.308	ug/l		97
64) Tetrachloroethene	10.867	164	30629	10.851	ug/l		95
65) Chlorobenzene	11.660	112	107554	10.362	ug/l		95
66) 1,1,1,2-Tetrachloroethane	11.733	131	33104	10.240	ug/l		97
67) Ethyl Benzene	11.733	91	175582	10.149	ug/l		95
68) m/p-Xylenes	11.837	106	135895	20.370	ug/l		98
69) o-Xylene	12.166	106	62715	10.052	ug/l		98
70) Styrene	12.178	104	107824	9.899	ug/l		99
71) Bromoform	12.349	173	19572	10.562	ug/l	#	92
73) Isopropylbenzene	12.464	105	152894	9.234	ug/l		99
74) N-amyl acetate	12.269	43	49718	9.412	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	41991	10.213	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	31741m	9.939	ug/l		
77) Bromobenzene	12.745	156	38105	9.547	ug/l		84
78) n-propylbenzene	12.800	91	194851	9.421	ug/l		97
79) 2-Chlorotoluene	12.891	91	124638	9.855	ug/l		98
80) 1,3,5-Trimethylbenzene	12.940	105	135870	9.490	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.513	75	11399	9.067	ug/l		91
82) 4-Chlorotoluene	12.989	91	132770	9.874	ug/l		99
83) tert-Butylbenzene	13.202	119	113595	9.669	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	139474	9.580	ug/l		98
85) sec-Butylbenzene	13.379	105	171153	9.533	ug/l		99
86) p-Isopropyltoluene	13.495	119	139064	9.335	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	79860	9.881	ug/l		94
88) 1,4-Dichlorobenzene	13.574	146	80973	10.019	ug/l		98
89) n-Butylbenzene	13.818	91	136393	9.378	ug/l		99
90) Hexachloroethane	14.086	117	25898	9.699	ug/l		98
91) 1,2-Dichlorobenzene	13.867	146	74980	10.262	ug/l		94
92) 1,2-Dibromo-3-Chloropr...	14.482	75	6955	9.662	ug/l		87
93) 1,2,4-Trichlorobenzene	15.129	180	40772	9.306	ug/l		95
94) Hexachlorobutadiene	15.226	225	20605	10.287	ug/l		96
95) Naphthalene	15.360	128	92896	8.829	ug/l		99
96) 1,2,3-Trichlorobenzene	15.555	180	39577	9.584	ug/l		96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032314.D
Acq On : 01 Oct 2025 13:34
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:13:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

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

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

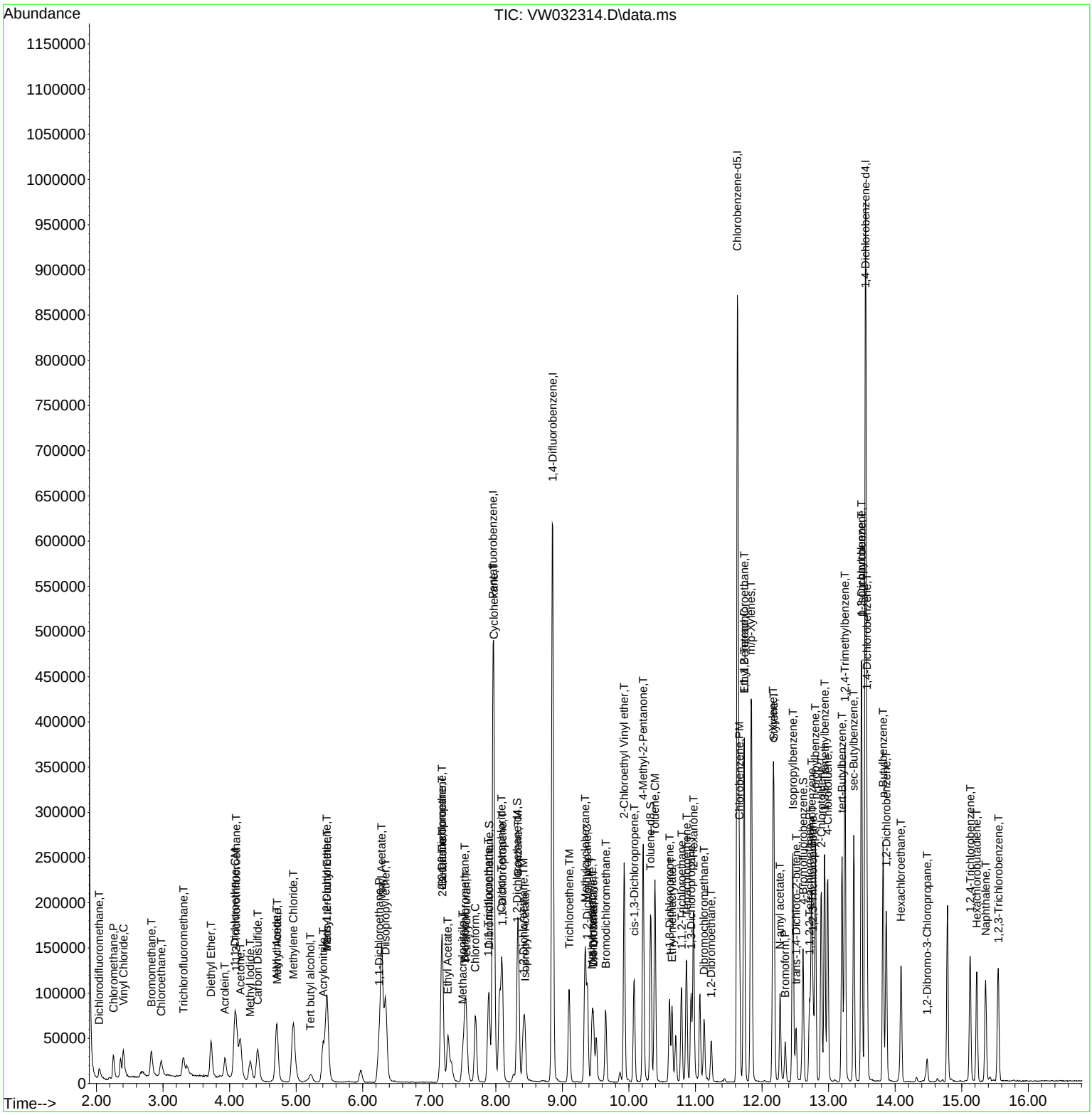
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032314.D
Acq On : 01 Oct 2025 13:34
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

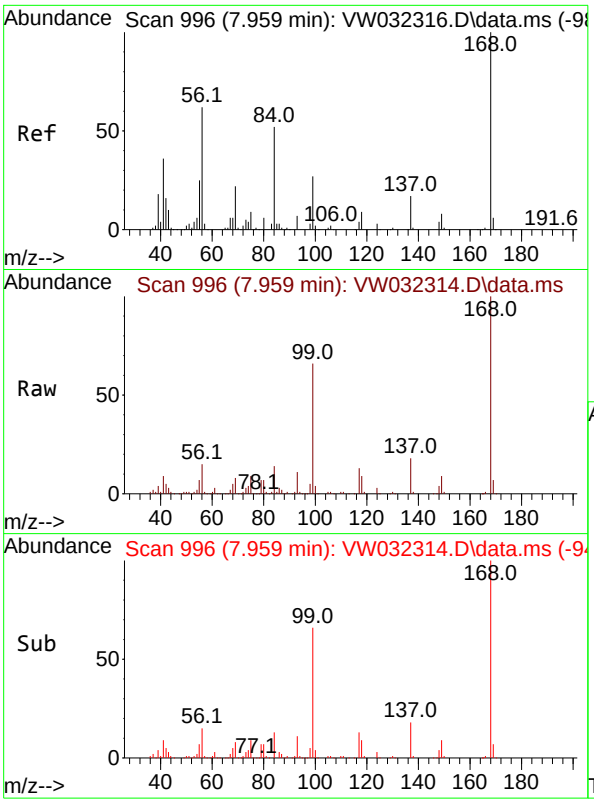
Quant Time: Oct 02 21:13:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

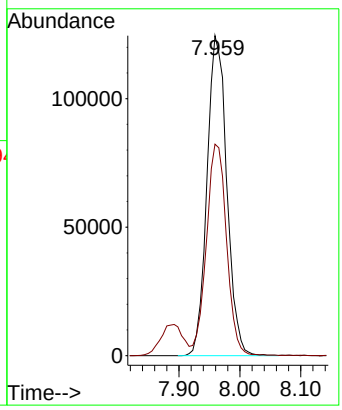




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:168 Resp: 28085

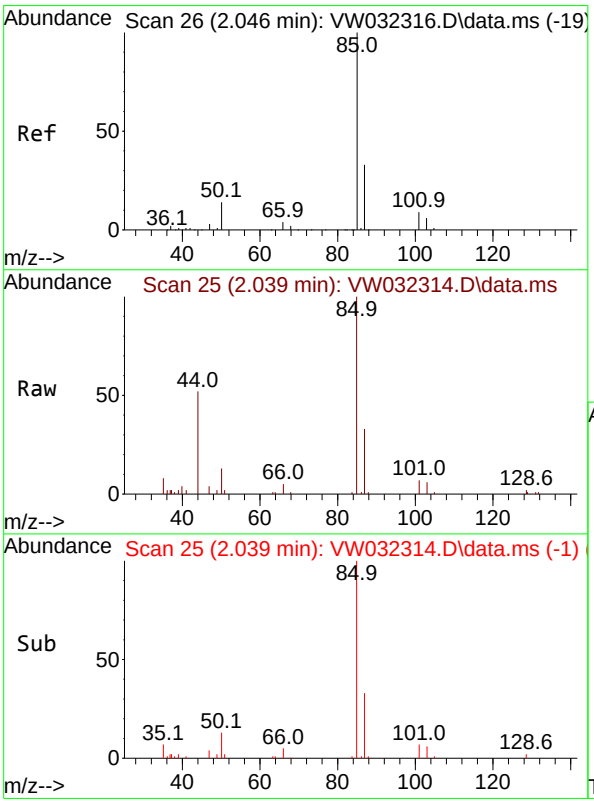
Ion	Ratio	Lower	Upper
168	100		
99	66.0	49.3	73.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

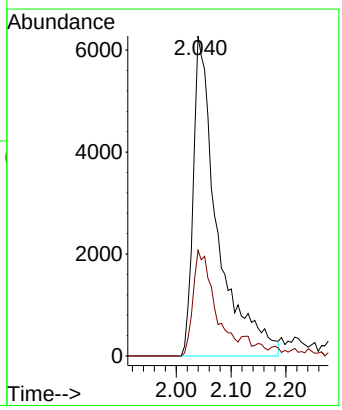
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

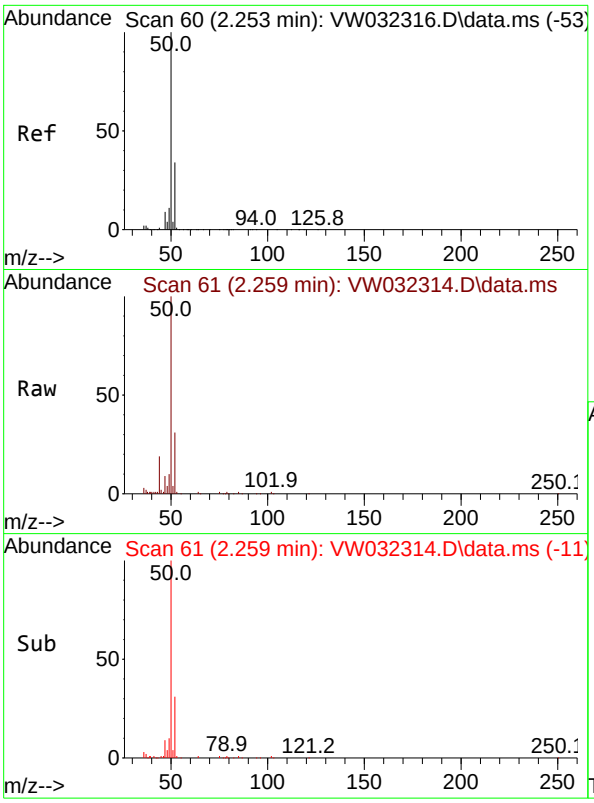


#2
Dichlorodifluoromethane
Concen: 10.941 ug/l
RT: 2.039 min Scan# 25
Delta R.T. -0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 85 Resp: 19283

Ion	Ratio	Lower	Upper
85	100		
87	33.0	17.2	51.6

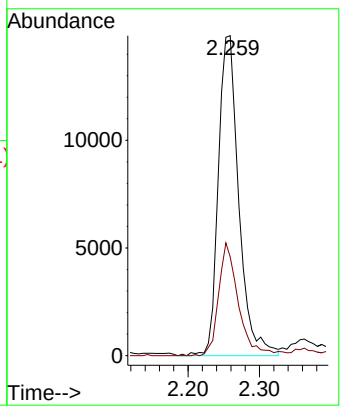




#3
Chloromethane
Concen: 10.879 ug/l
RT: 2.259 min Scan# 6
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 50 Resp: 2958

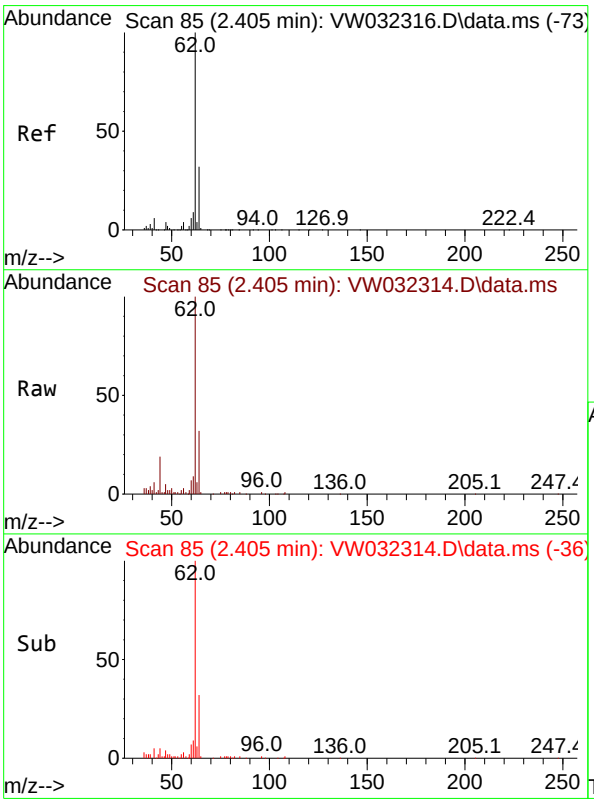
Ion	Ratio	Lower	Upper
50	100		
52	30.8	26.1	39.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

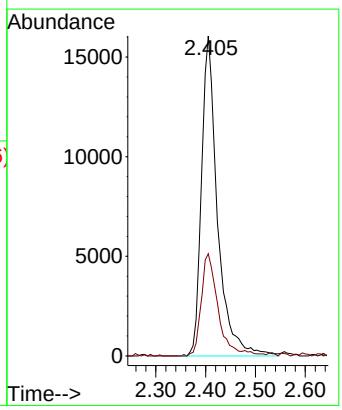
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

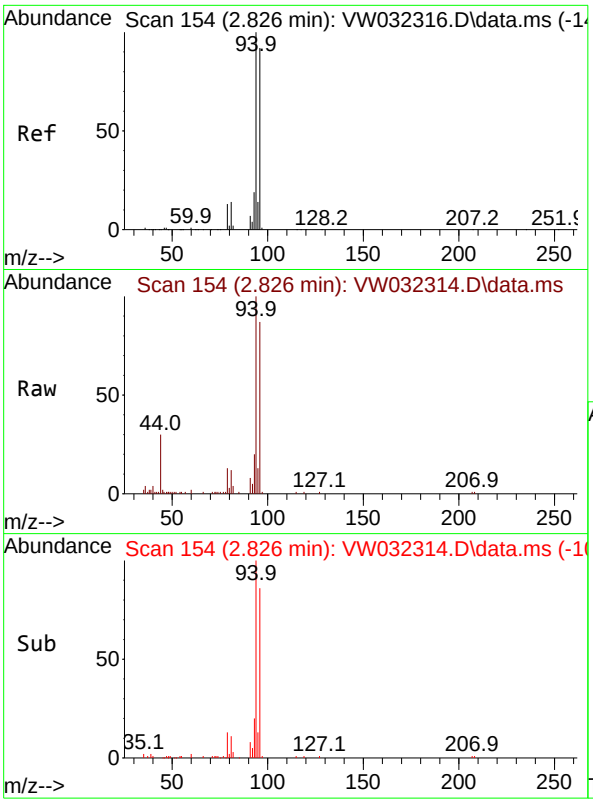


#4
Vinyl Chloride
Concen: 11.008 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 62 Resp: 35737

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.8	37.2

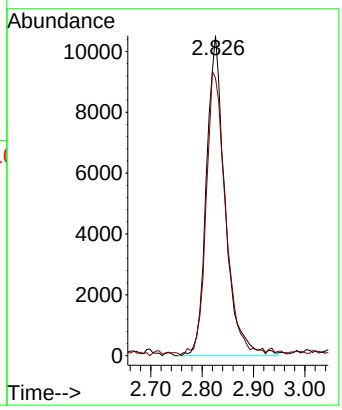




#5
Bromomethane
Concen: 11.105 ug/l
RT: 2.826 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 94 Resp: 2649

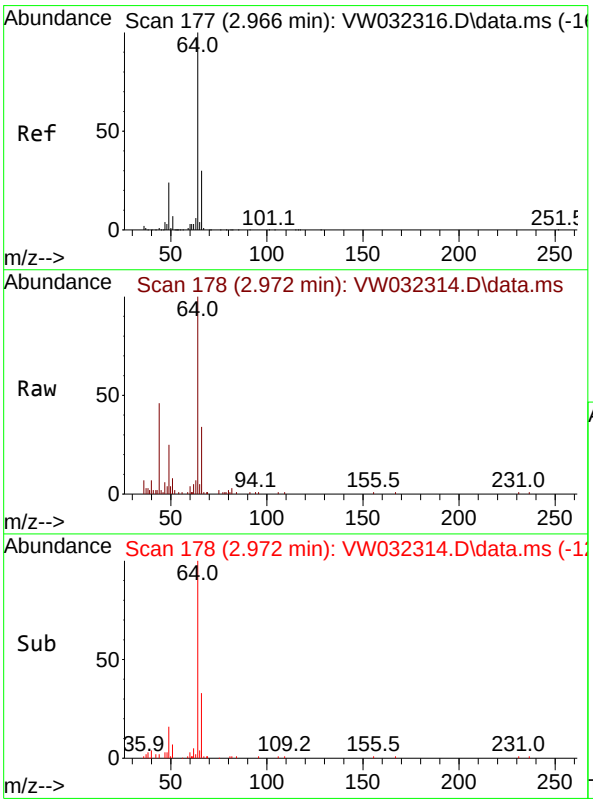
Ion	Ratio	Lower	Upper
94	100		
96	85.9	76.6	115.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

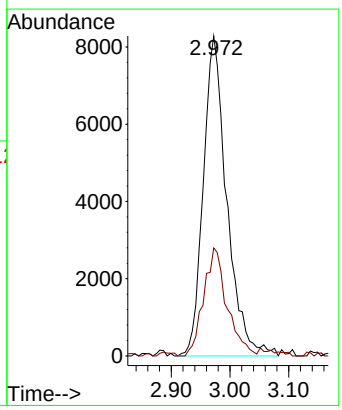
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

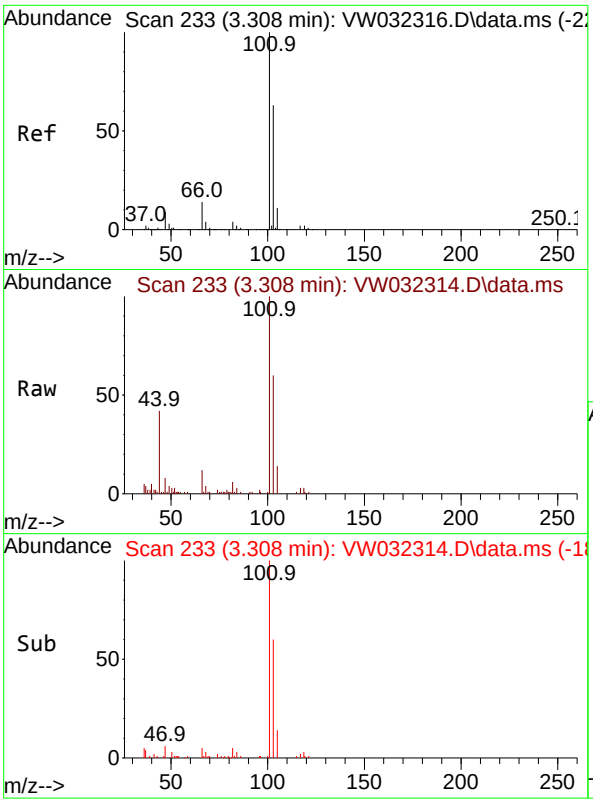


#6
Chloroethane
Concen: 10.728 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 64 Resp: 22994

Ion	Ratio	Lower	Upper
64	100		
66	33.7	26.2	39.4

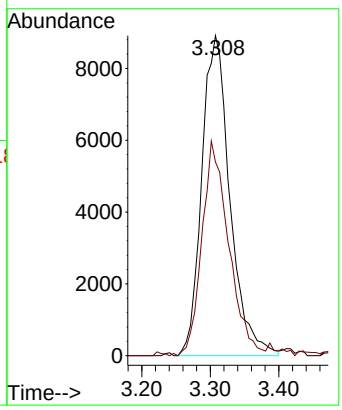




#7
Trichlorofluoromethane
Concen: 10.479 ug/l
RT: 3.308 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:101 Resp: 2547

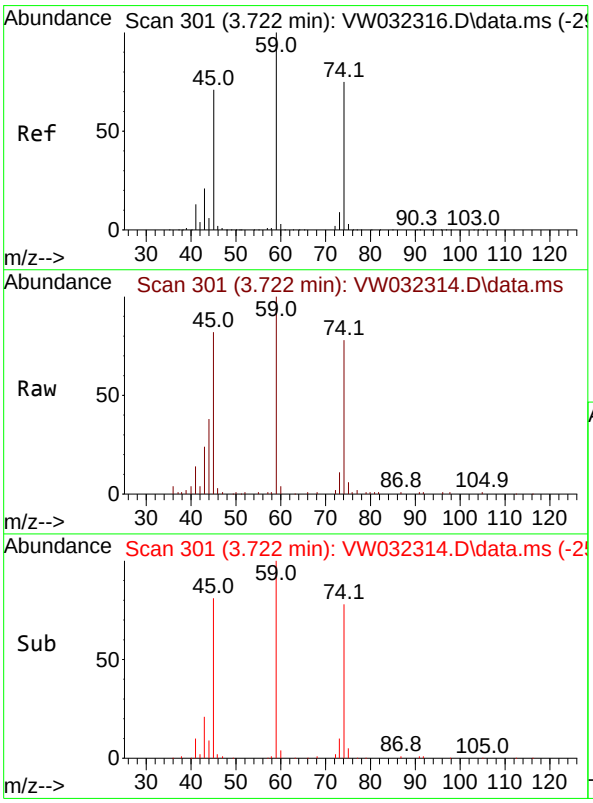
Ion	Ratio	Lower	Upper
101	100		
103	60.5	47.8	71.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

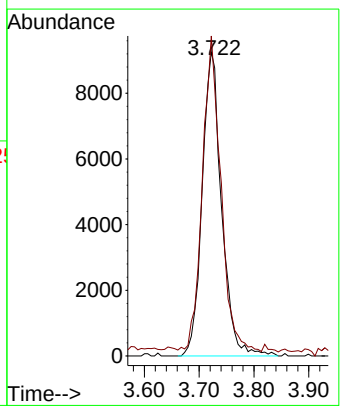
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

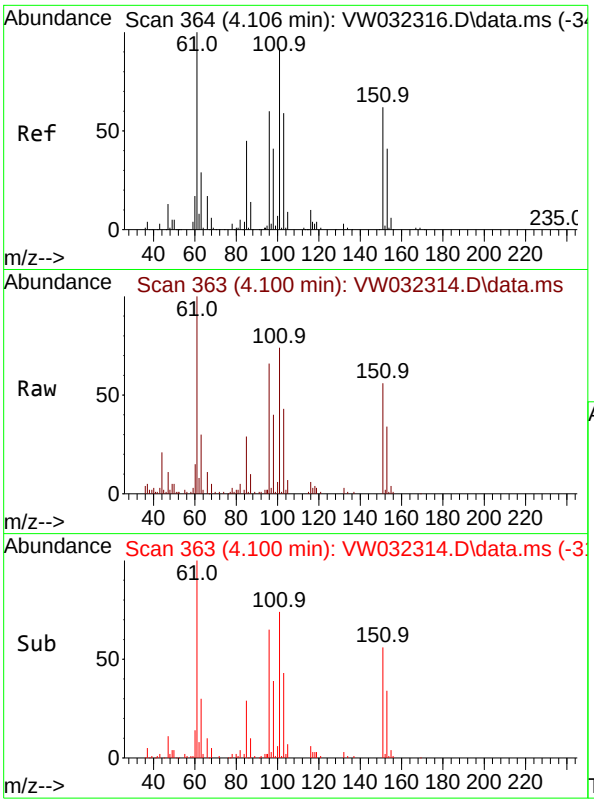


#8
Diethyl Ether
Concen: 10.814 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 74 Resp: 22779

Ion	Ratio	Lower	Upper
74	100		
45	98.9	43.1	129.4

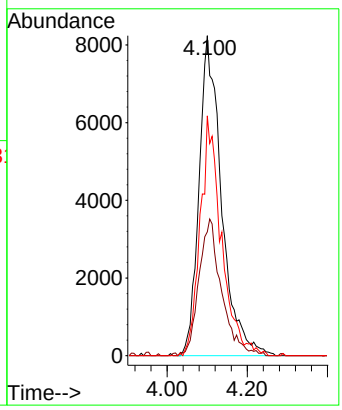




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.965 ug/l
RT: 4.100 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:101 Resp: 3196

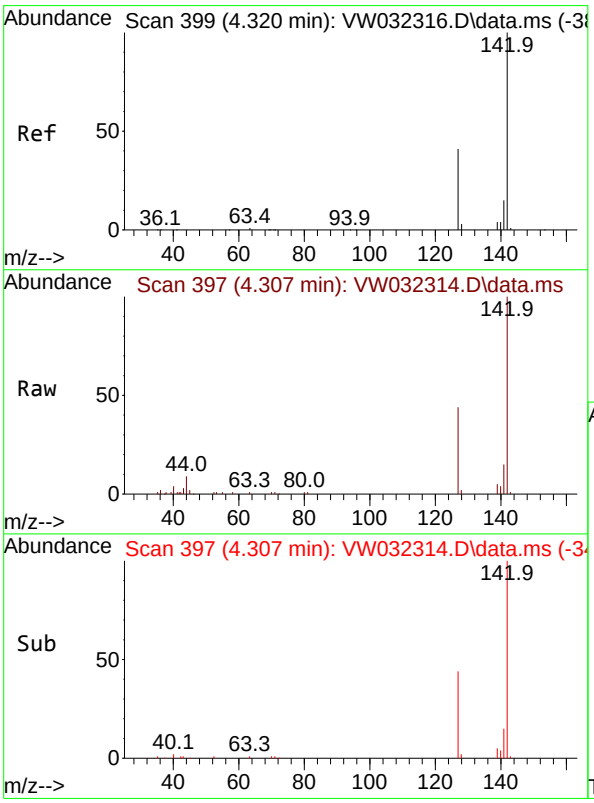
Ion	Ratio	Lower	Upper
101	100		
85	43.1	37.1	55.7
151	70.9	61.5	92.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

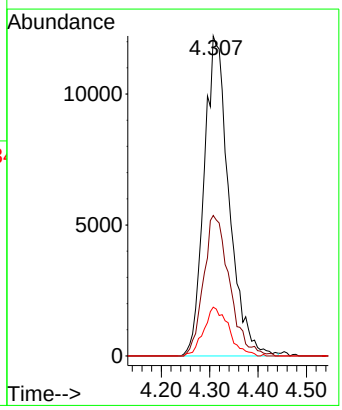
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

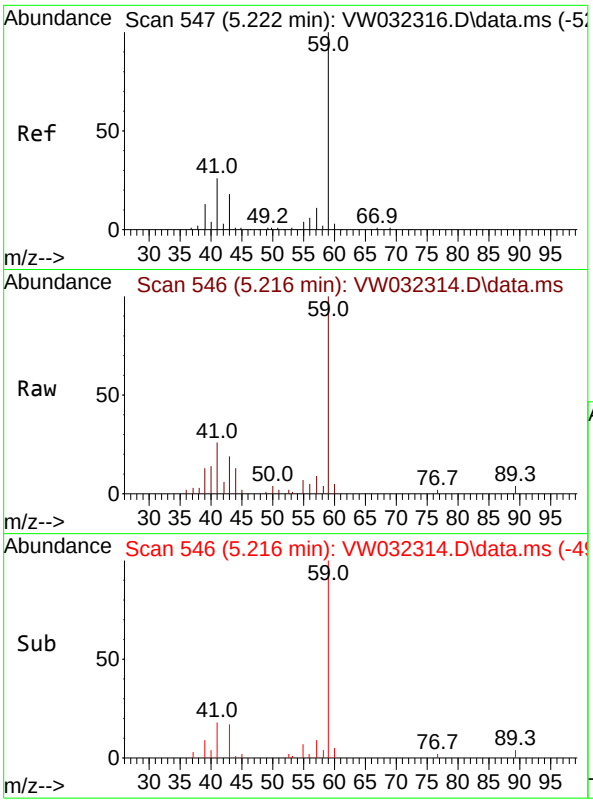


#10
Methyl Iodide
Concen: 10.492 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:142 Resp: 43646

Ion	Ratio	Lower	Upper
142	100		
127	45.9	38.2	57.2
141	15.4	12.2	18.2

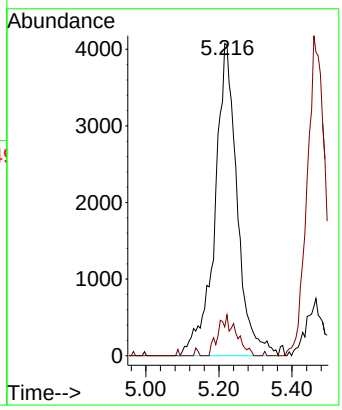




#11
Tert butyl alcohol
Concen: 55.962 ug/l
RT: 5.216 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 59 Resp: 1735

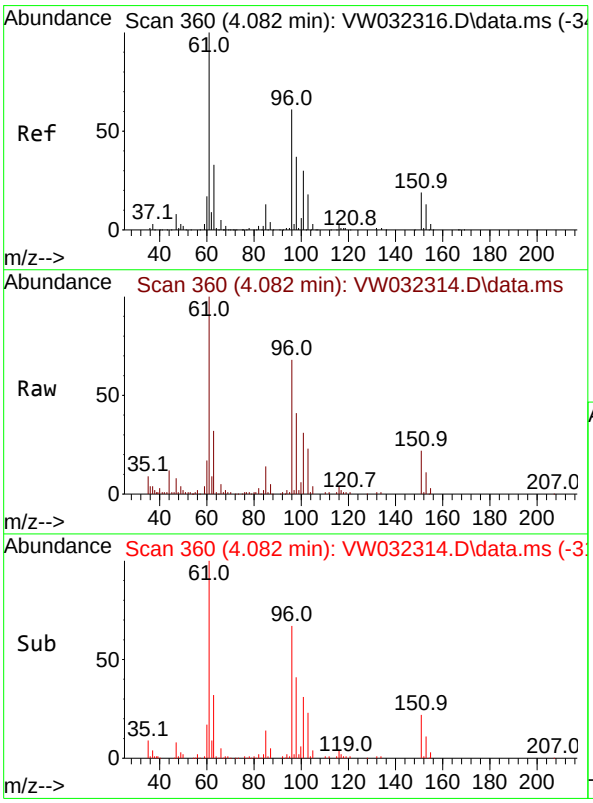
Ion	Ratio	Lower	Upper
59	100		
57	4.4	9.8	14.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

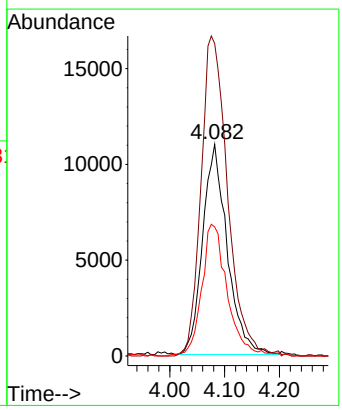
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

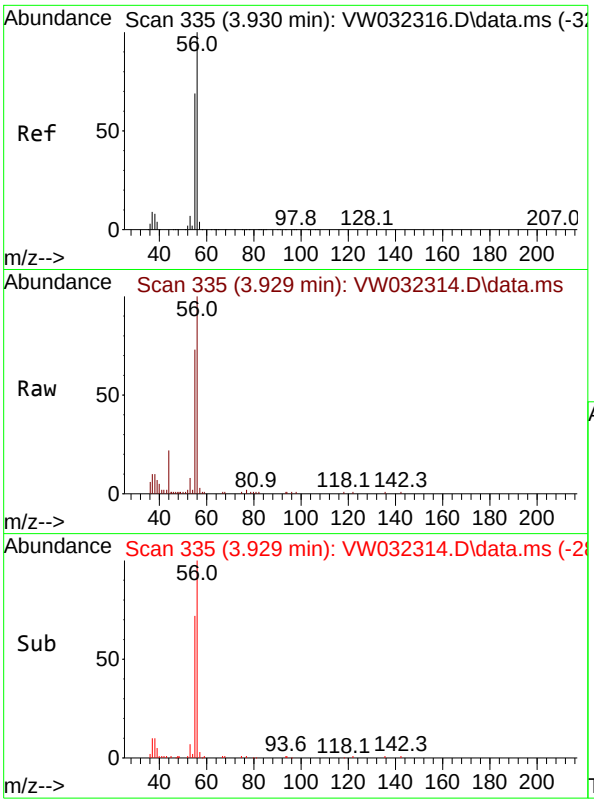


#12
1,1-Dichloroethene
Concen: 10.786 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 96 Resp: 34142

Ion	Ratio	Lower	Upper
96	100		
61	148.1	123.0	184.4
98	60.3	48.5	72.7

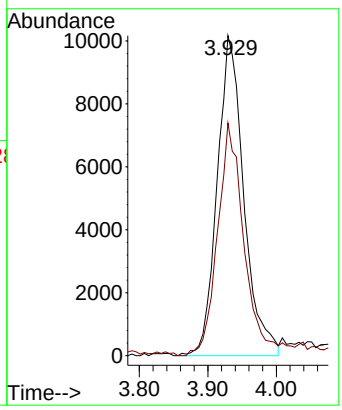




#13
Acrolein
Concen: 54.429 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 56 Resp: 2739

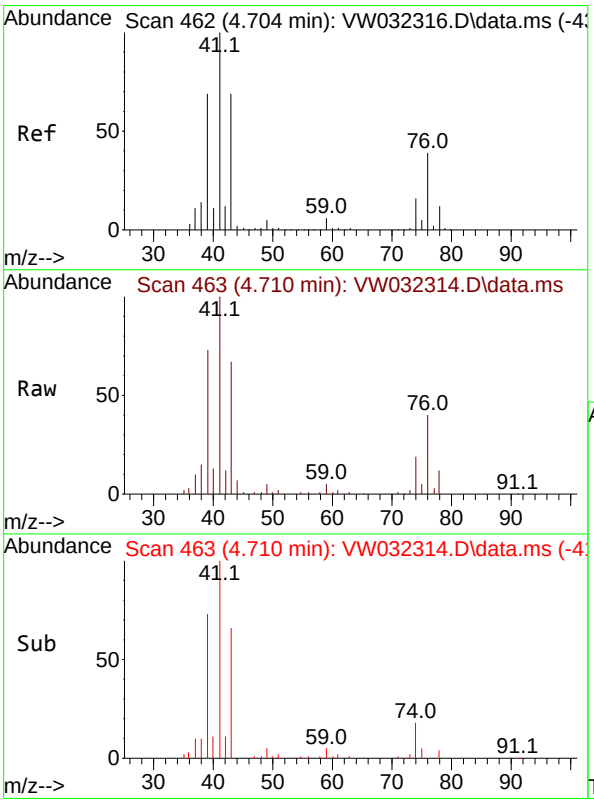
Ion	Ratio	Lower	Upper
56	100		
55	72.9	56.4	84.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

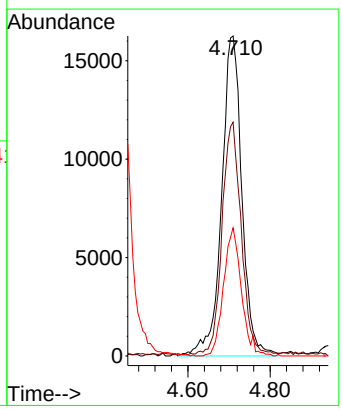
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

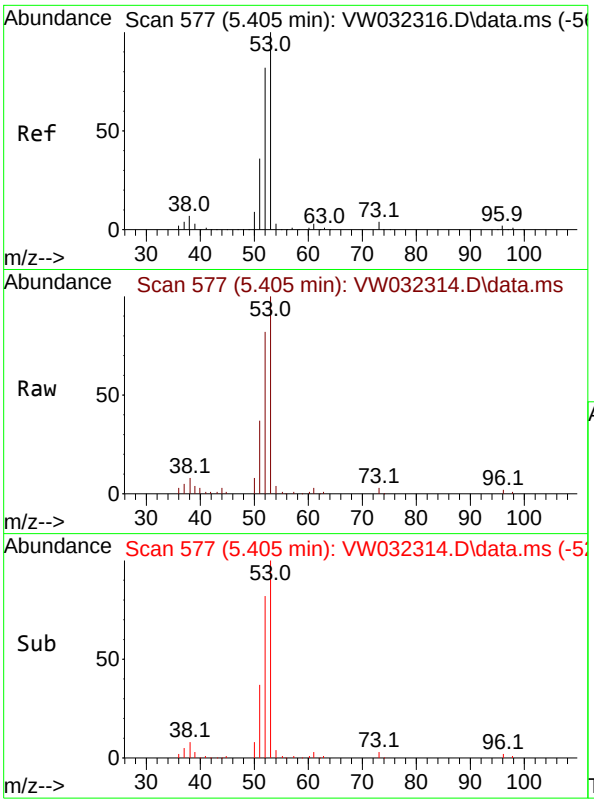


#14
Allyl chloride
Concen: 10.423 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 41 Resp: 55724

Ion	Ratio	Lower	Upper
41	100		
39	68.4	64.1	96.1
76	35.2	31.4	47.2

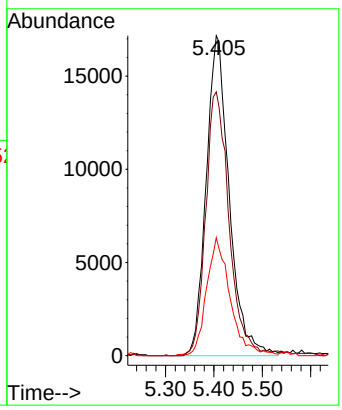




#15
Acrylonitrile
Concen: 51.811 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 53 Resp: 5677

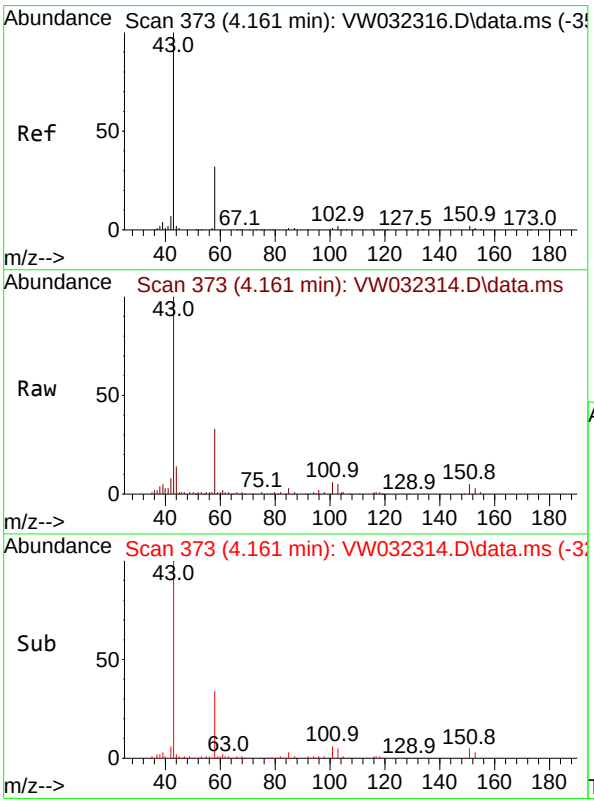
Ion	Ratio	Lower	Upper
53	100		
52	83.4	67.4	101.2
51	37.9	30.3	45.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

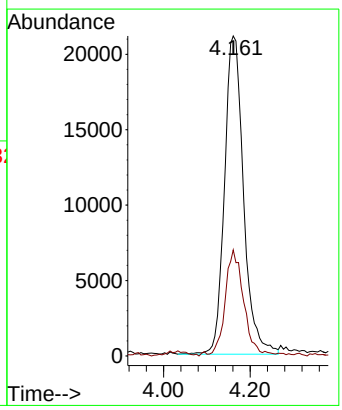
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

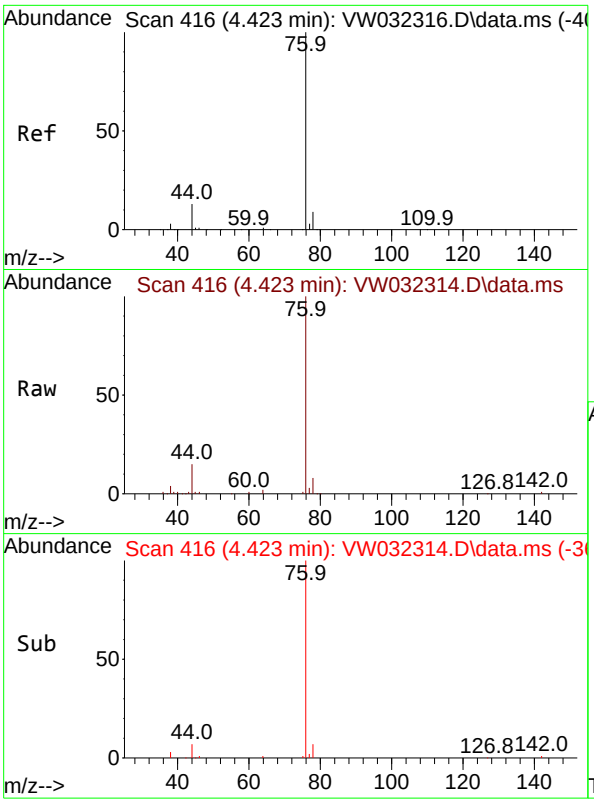


#16
Acetone
Concen: 56.980 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 43 Resp: 64630

Ion	Ratio	Lower	Upper
43	100		
58	32.5	25.3	37.9

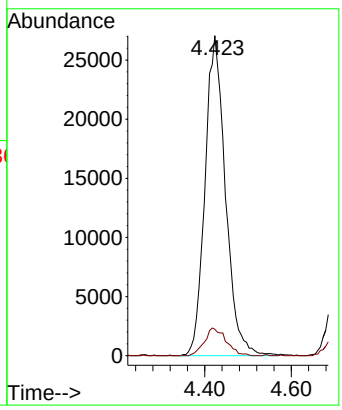




#17
Carbon Disulfide
Concen: 10.296 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 76 Resp: 8891

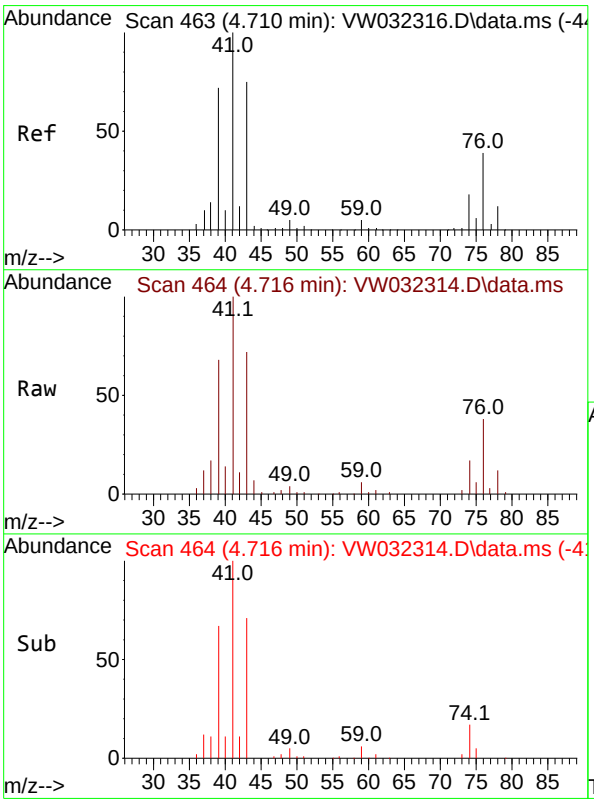
Ion	Ratio	Lower	Upper
76	100		
78	8.2	7.0	10.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

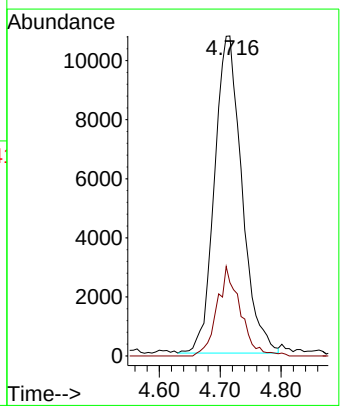
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

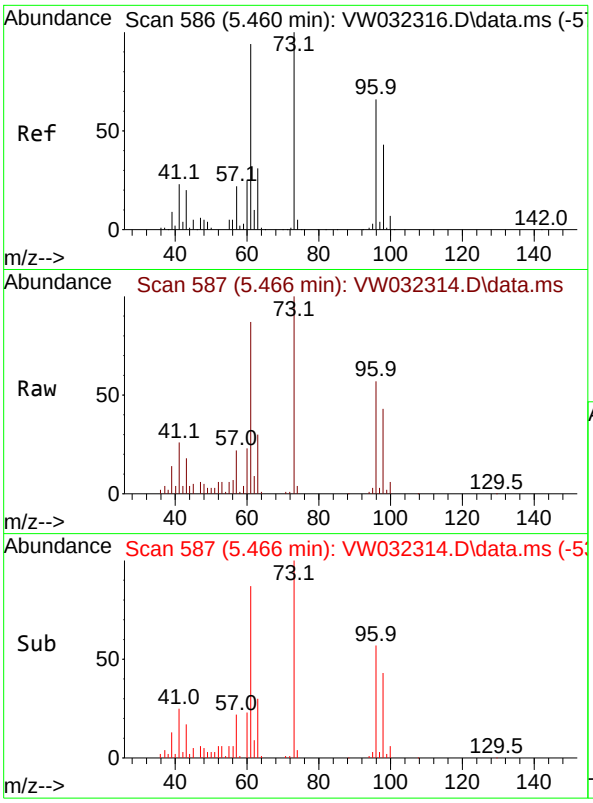


#18
Methyl Acetate
Concen: 10.316 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 43 Resp: 33520

Ion	Ratio	Lower	Upper
43	100		
74	24.1	20.2	30.4





#19
Methyl tert-butyl Ether
Concen: 10.462 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

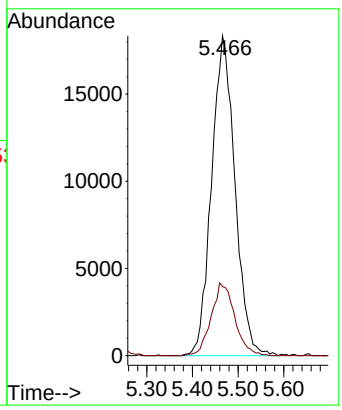
Tgt Ion: 73 Resp: 6522

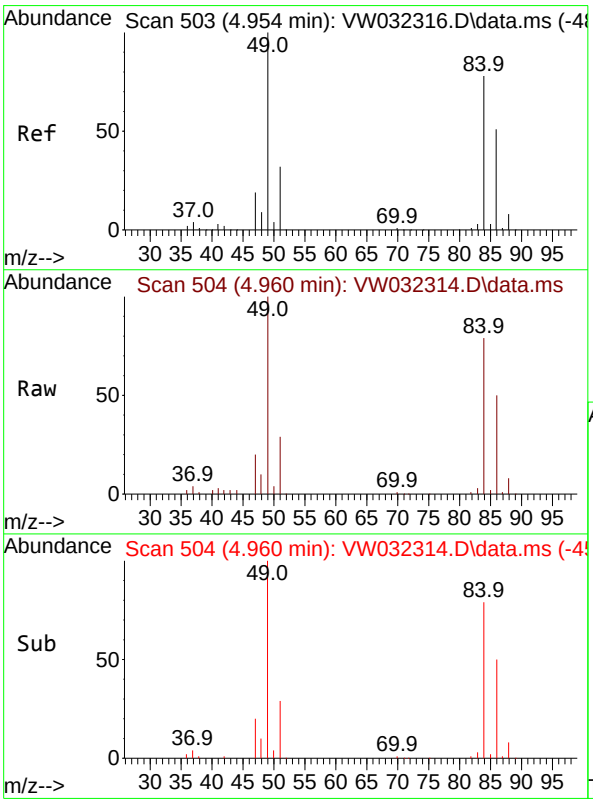
Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.2	24.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

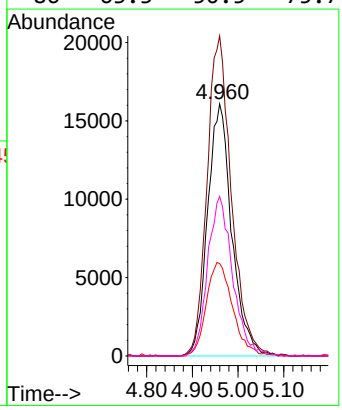


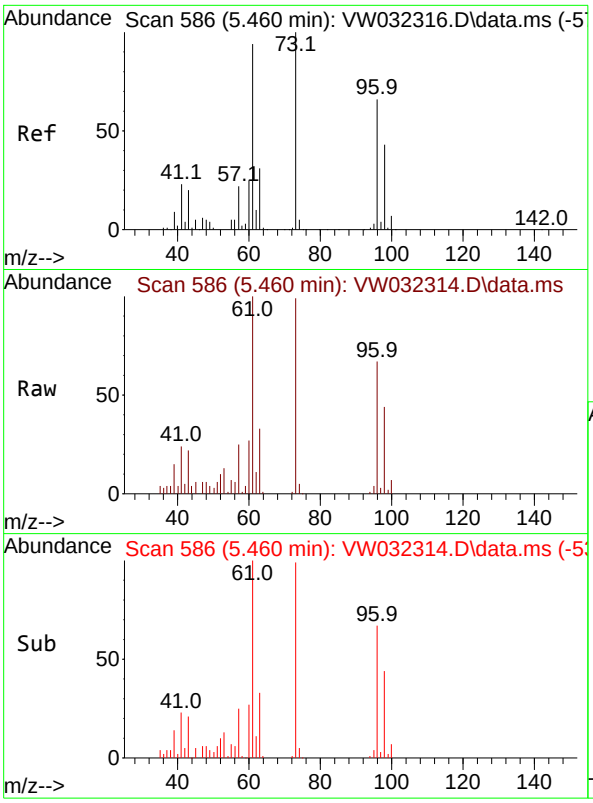


#20
Methylene Chloride
Concen: 11.634 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 84 Resp: 59087

Ion	Ratio	Lower	Upper
84	100		
49	126.9	92.2	138.4
51	36.7	31.0	46.6
86	63.3	50.5	75.7

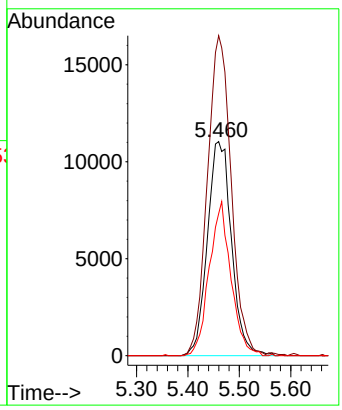




#21
trans-1,2-Dichloroethene
Concen: 10.262 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 96 Resp: 3596

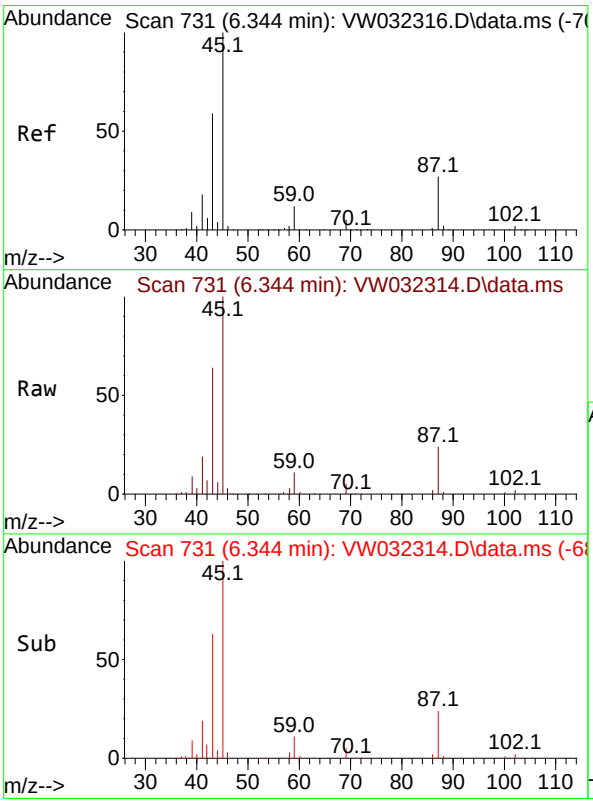
Ion	Ratio	Lower	Upper
96	100		
61	149.5	112.5	168.7
98	66.4	54.2	81.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

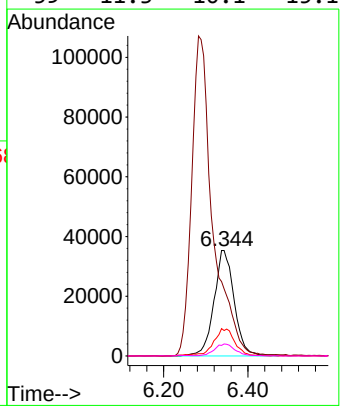
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

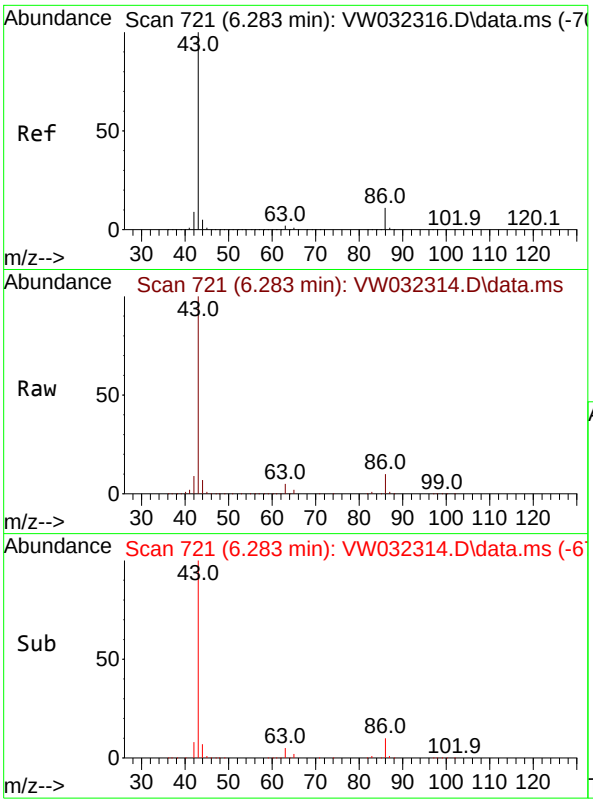


#22
Diisopropyl ether
Concen: 10.536 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 45 Resp: 117148

Ion	Ratio	Lower	Upper
45	100		
43	62.3	51.4	77.2
87	24.2	25.9	38.9#
59	11.3	10.1	15.1





#23
Vinyl Acetate
Concen: 50.126 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

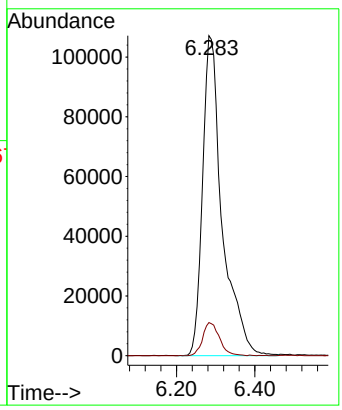
Tgt Ion: 43 Resp: 37225

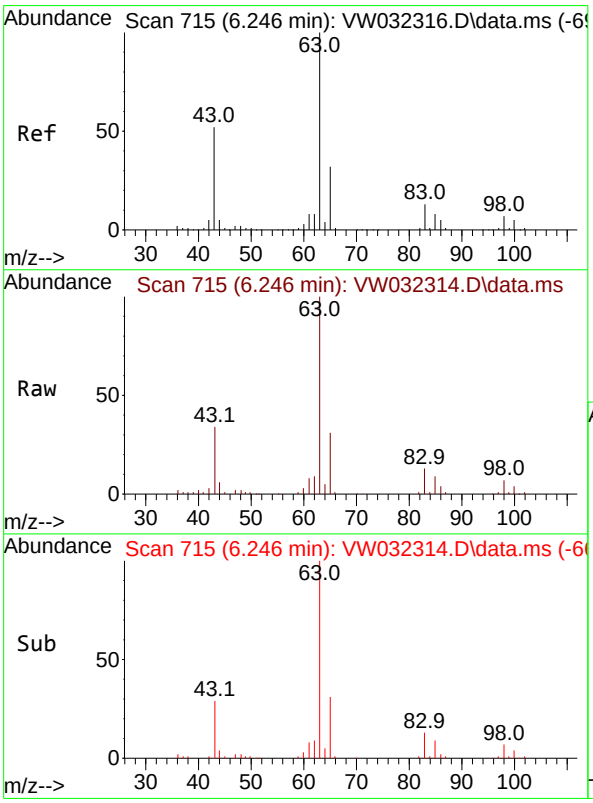
Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.8	13.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

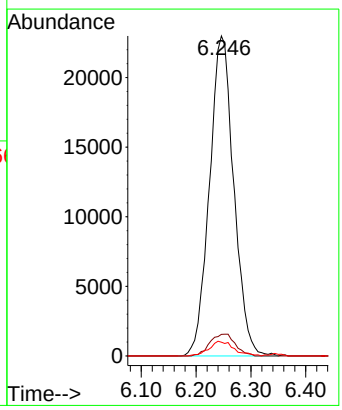


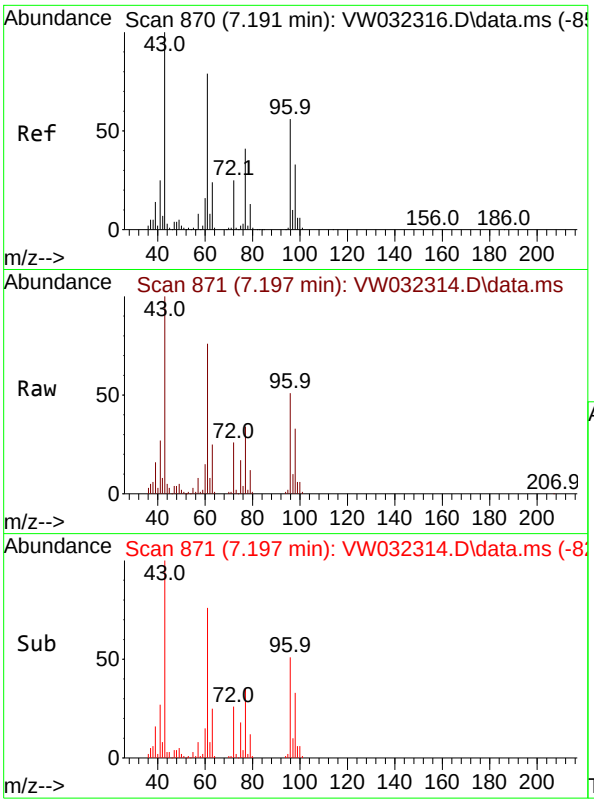


#24
1,1-Dichloroethane
Concen: 10.489 ug/l
RT: 6.246 min Scan# 715
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 63 Resp: 70852

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.8	11.2
100	4.3	2.5	7.5

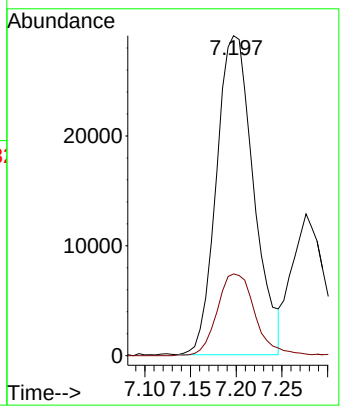




#25
2-Butanone
Concen: 53.263 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 43 Resp: 8228

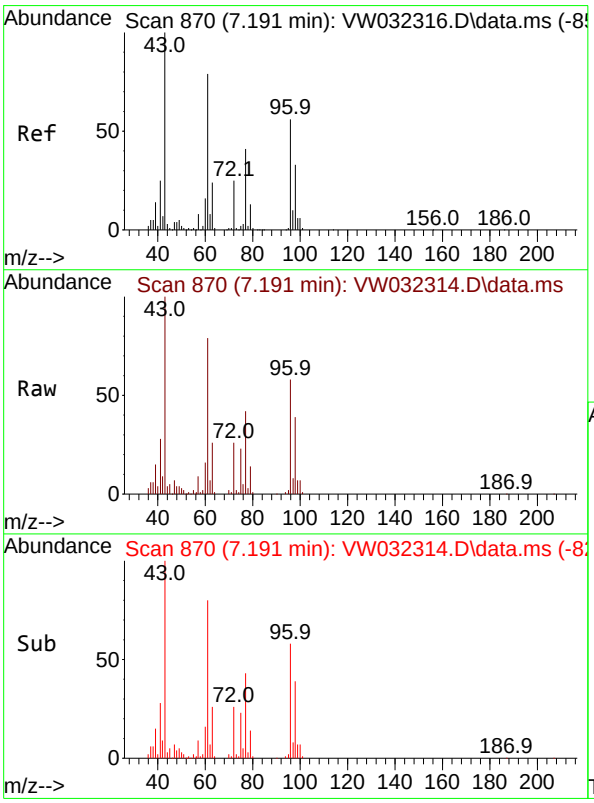
Ion	Ratio	Lower	Upper
43	100		
72	25.4	21.4	32.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

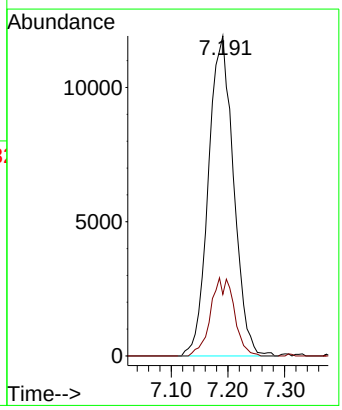
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

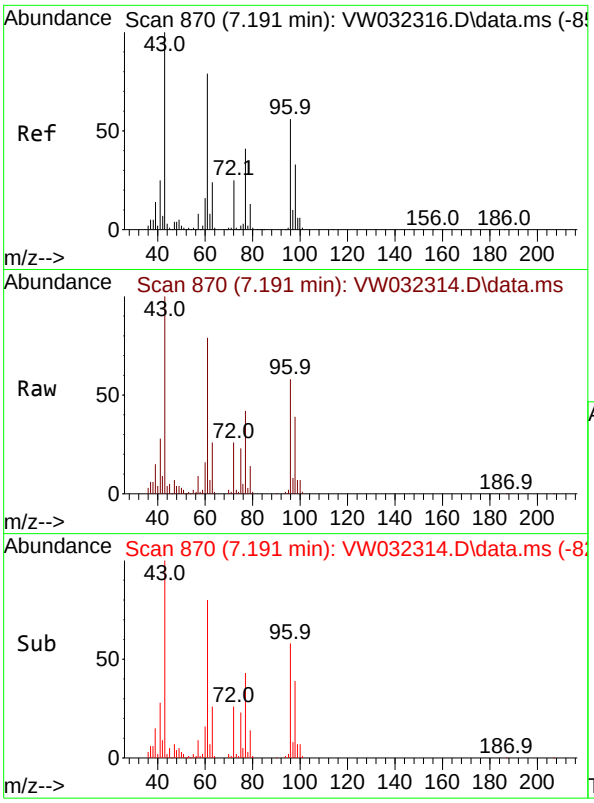


#26
2,2-Dichloropropane
Concen: 10.625 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 77 Resp: 36712

Ion	Ratio	Lower	Upper
77	100		
97	23.0	11.9	35.5

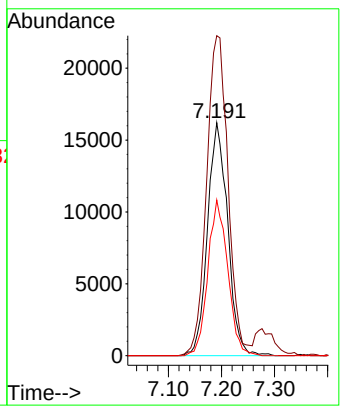




#27
cis-1,2-Dichloroethene
Concen: 10.178 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 96 Resp: 4284

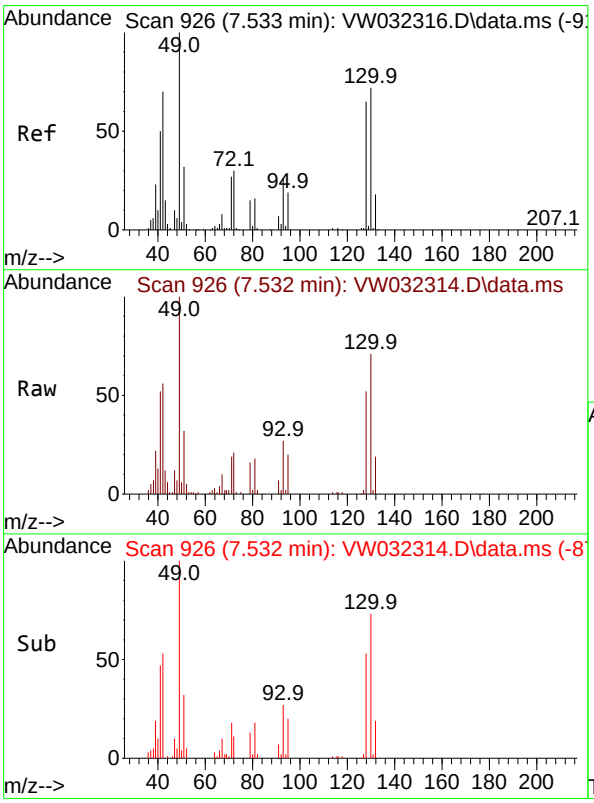
Ion	Ratio	Lower	Upper
96	100		
61	145.8	0.0	268.0
98	65.9	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

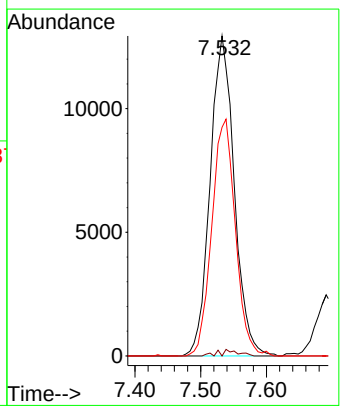
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

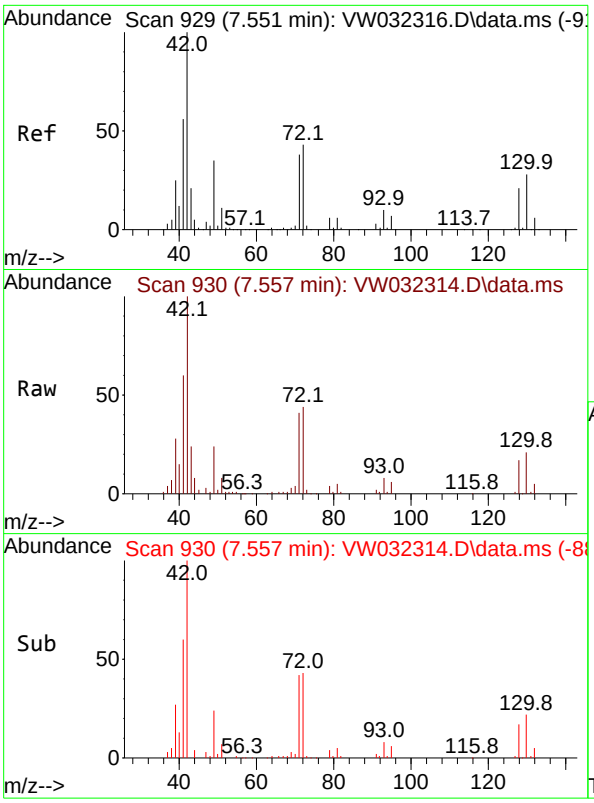


#28
Bromochloromethane
Concen: 10.397 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 49 Resp: 33043

Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	4.2
130	72.4	67.5	101.3

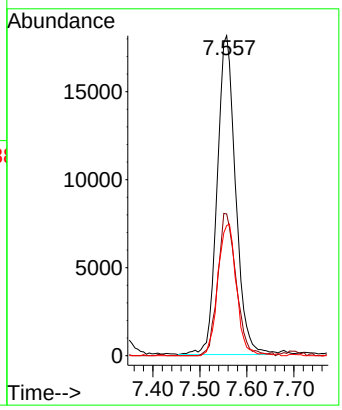




#29
Tetrahydrofuran
Concen: 50.941 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 42 Resp: 4948

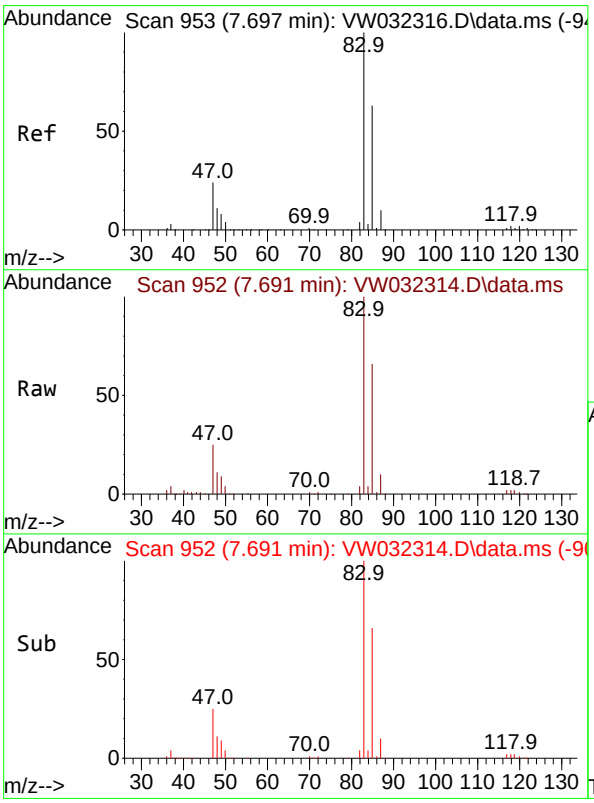
Ion	Ratio	Lower	Upper
42	100		
72	44.8	37.4	56.2
71	41.5	36.0	54.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

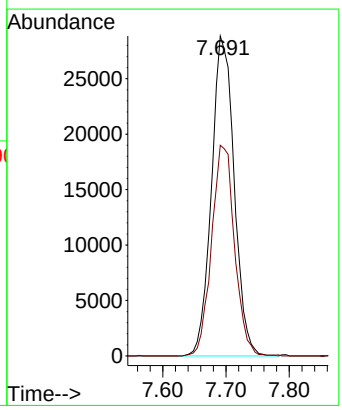
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

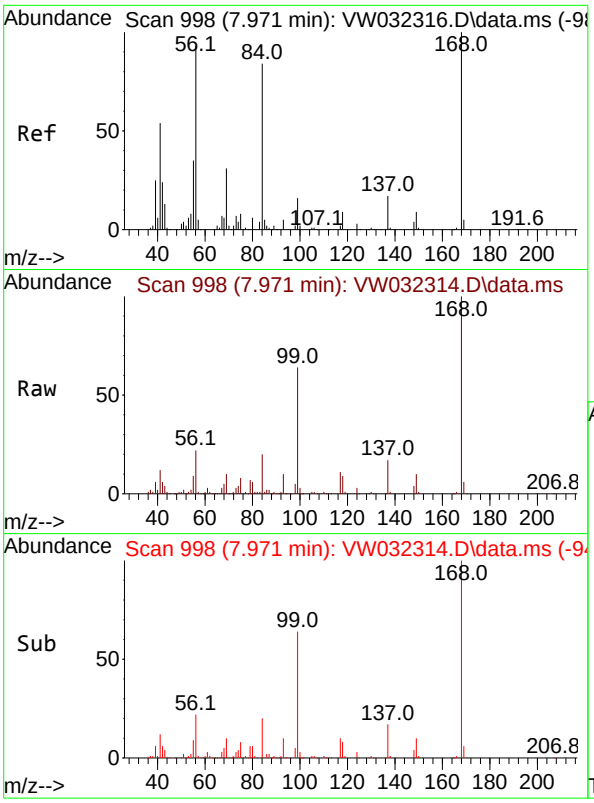


#30
Chloroform
Concen: 10.453 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 83 Resp: 71607

Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.2	76.8





#31
Cyclohexane
Concen: 10.792 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

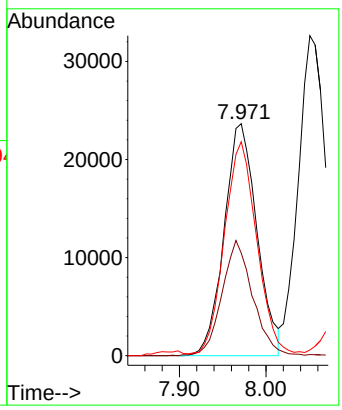
Tgt Ion: 56 Resp: 6223

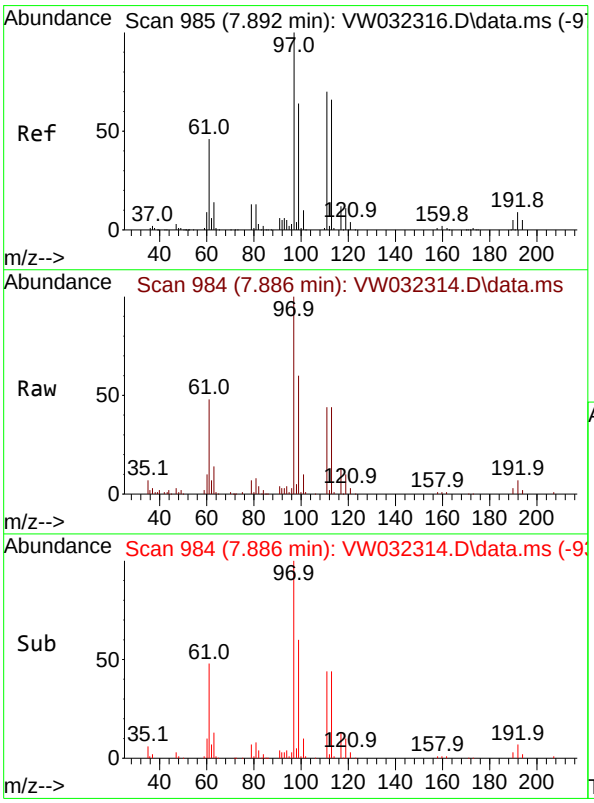
Ion	Ratio	Lower	Upper
56	100		
69	44.2	27.7	41.5
84	90.2	74.6	112.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

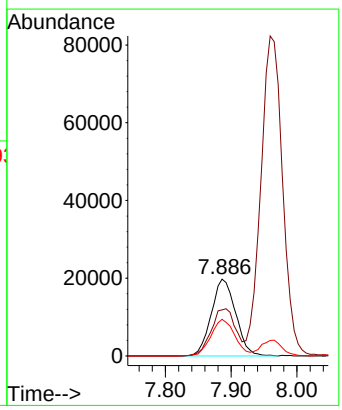


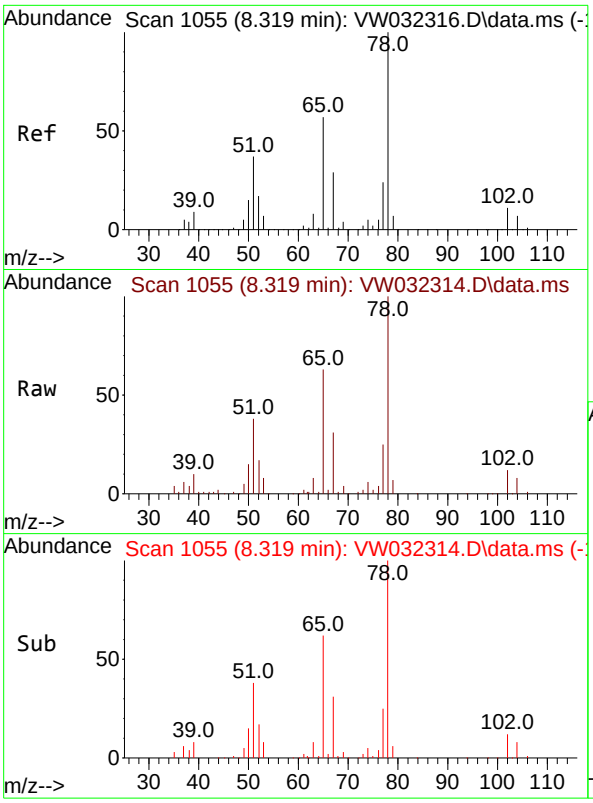


#32
1,1,1-Trichloroethane
Concen: 10.534 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 97 Resp: 51138

Ion	Ratio	Lower	Upper
97	100		
99	60.9	50.9	76.3
61	46.6	36.2	54.4

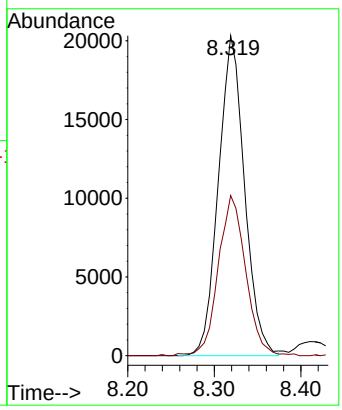




#33
1,2-Dichloroethane-d4
Concen: 10.398 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 65 Resp: 4259

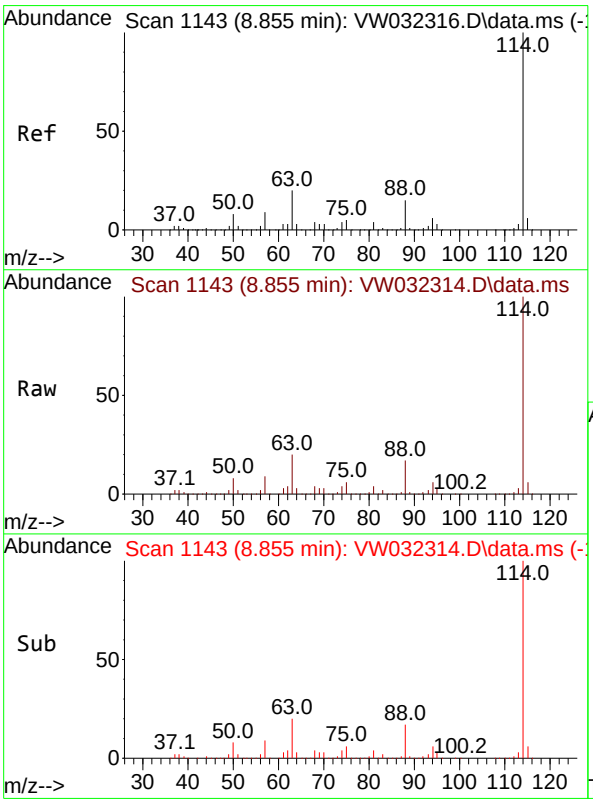
Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	99.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

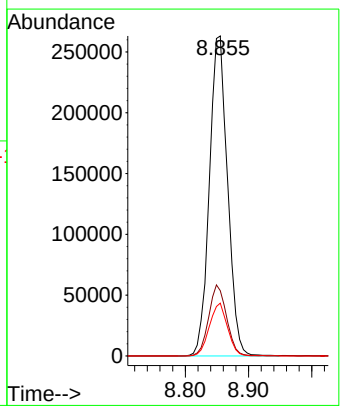
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

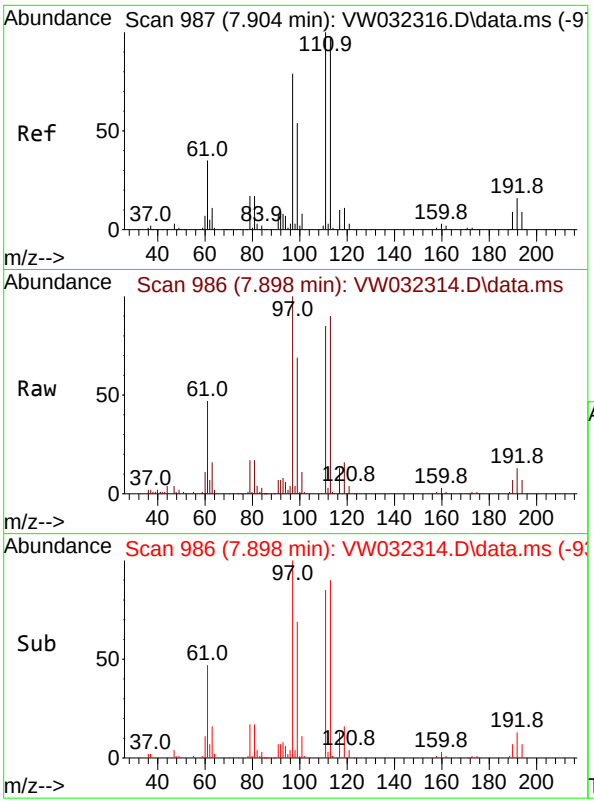


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:114 Resp: 525265

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.4
88	16.5	0.0	32.0

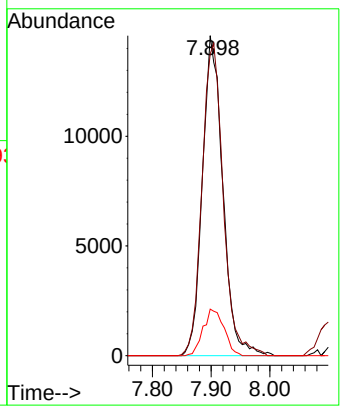




#35
Dibromofluoromethane
Concen: 10.357 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:113 Resp: 3523

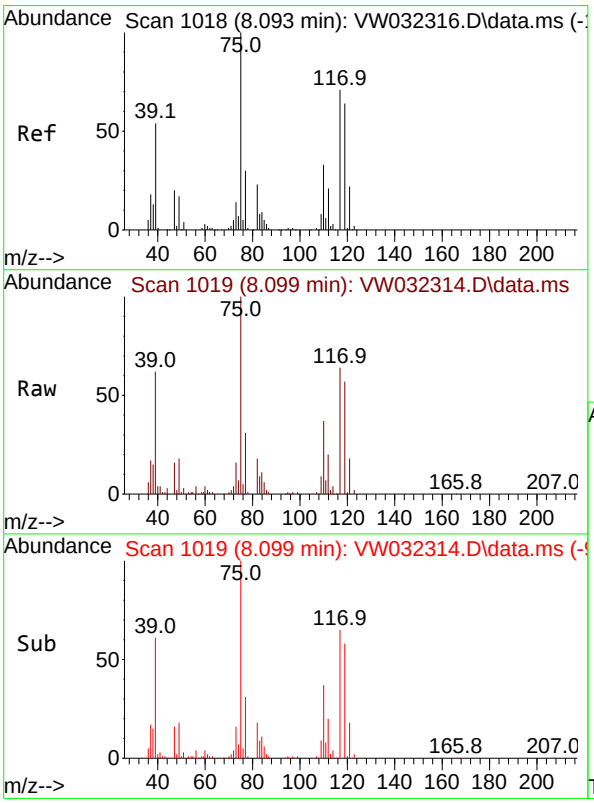
Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.9	125.9
192	14.9	14.6	21.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

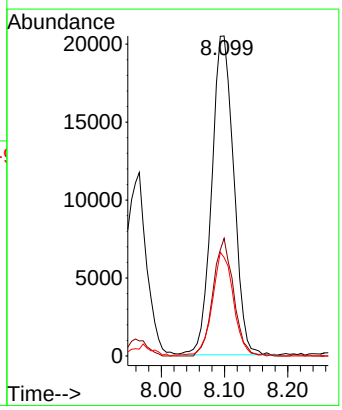
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

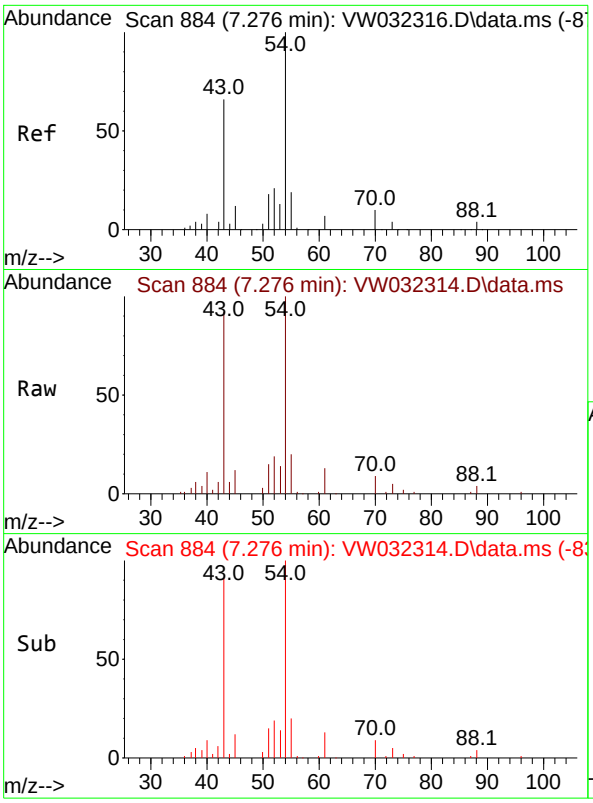


#36
1,1-Dichloropropene
Concen: 10.293 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 75 Resp: 49414

Ion	Ratio	Lower	Upper
75	100		
110	34.4	17.5	52.5
77	31.4	24.1	36.1

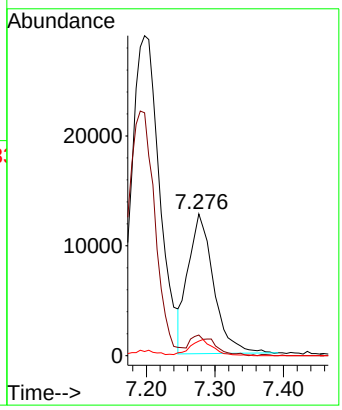




#37
Ethyl Acetate
Concen: 10.368 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 43 Resp: 3313

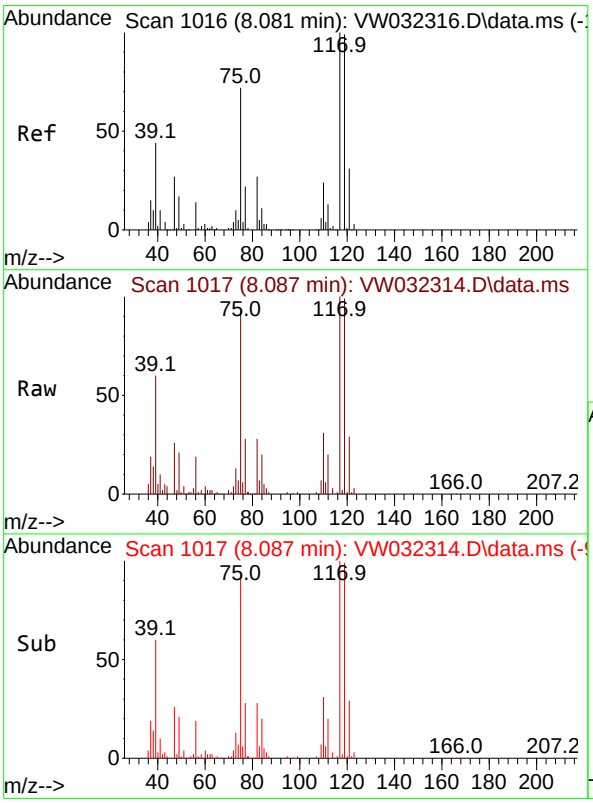
Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.3	16.9
70	10.5	8.9	13.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

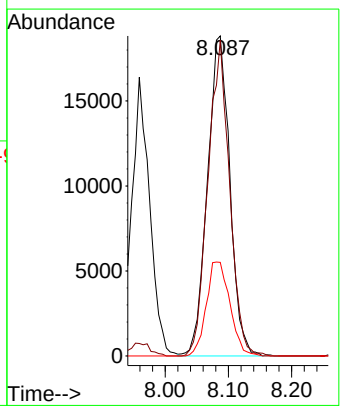
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

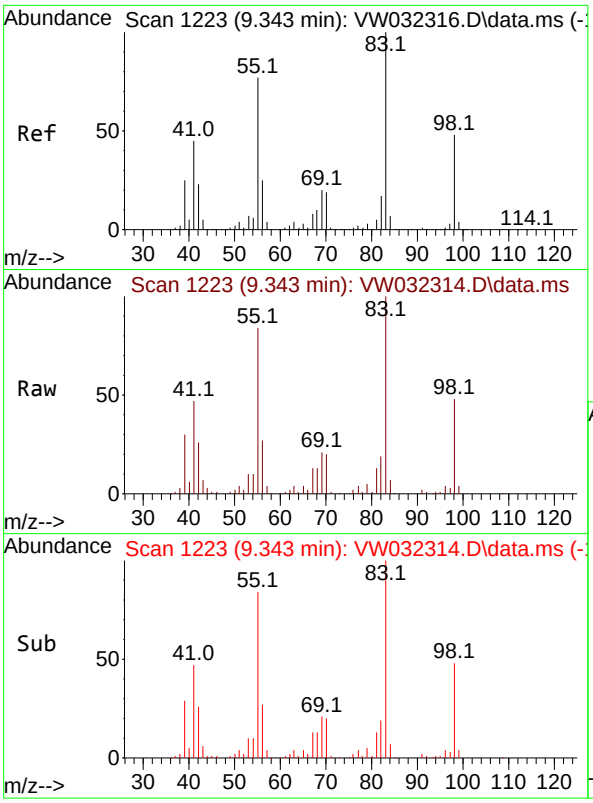


#38
Carbon Tetrachloride
Concen: 10.251 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:117 Resp: 46310

Ion	Ratio	Lower	Upper
117	100		
119	98.7	74.2	111.2
121	29.2	25.6	38.4

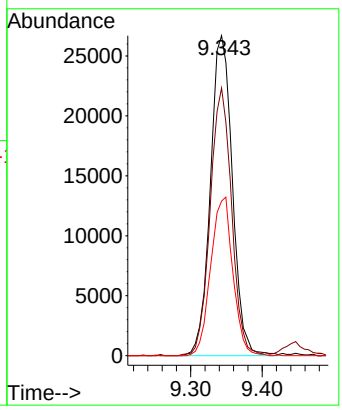




#39
Methylcyclohexane
Concen: 9.842 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 83 Resp: 5699

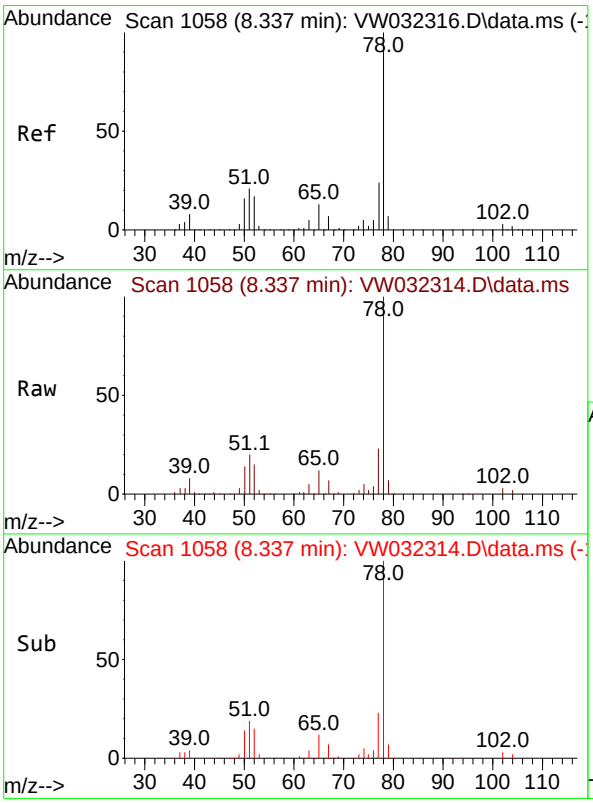
Ion	Ratio	Lower	Upper
83	100		
55	83.6	58.4	87.6
98	48.3	39.4	59.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

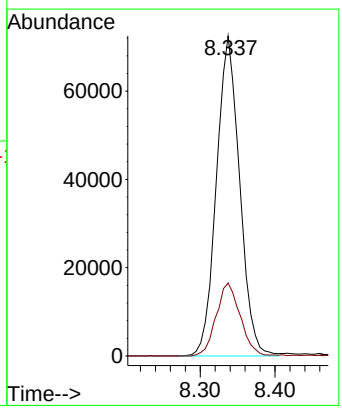
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

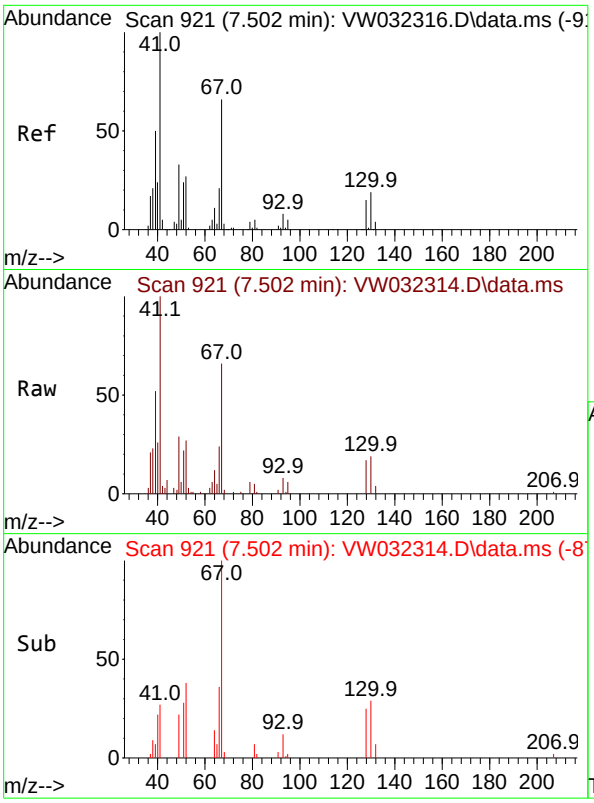


#40
Benzene
Concen: 10.431 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 78 Resp: 156957

Ion	Ratio	Lower	Upper
78	100		
77	22.8	20.7	31.1

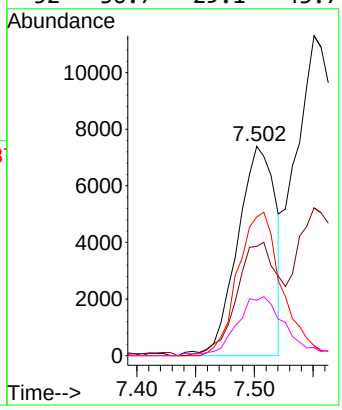




#41
Methacrylonitrile
Concen: 9.650 ug/l
RT: 7.502 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 41 Resp: 1661

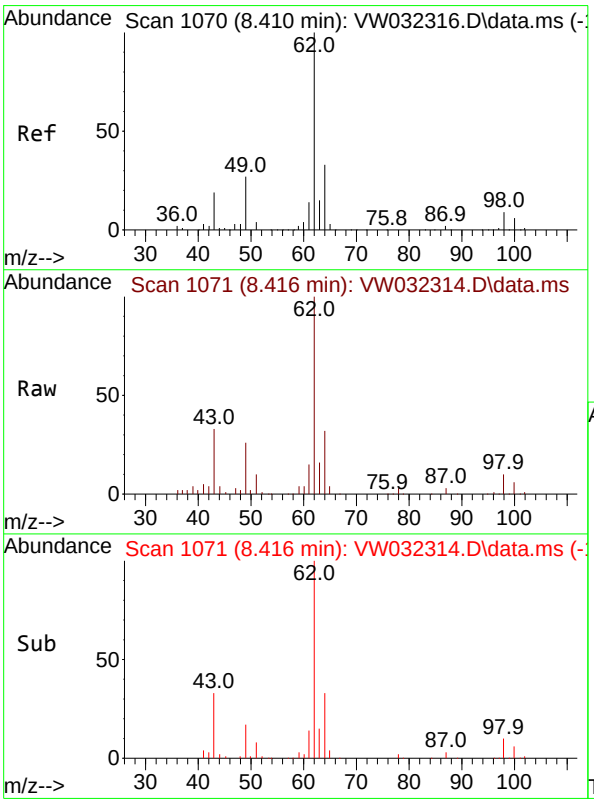
Ion	Ratio	Lower	Upper
41	100		
39	60.4	50.9	76.3
67	80.4	65.6	98.4
52	36.7	29.1	43.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

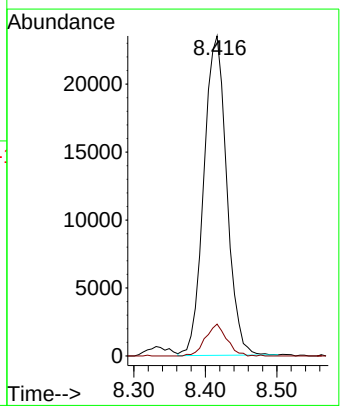
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

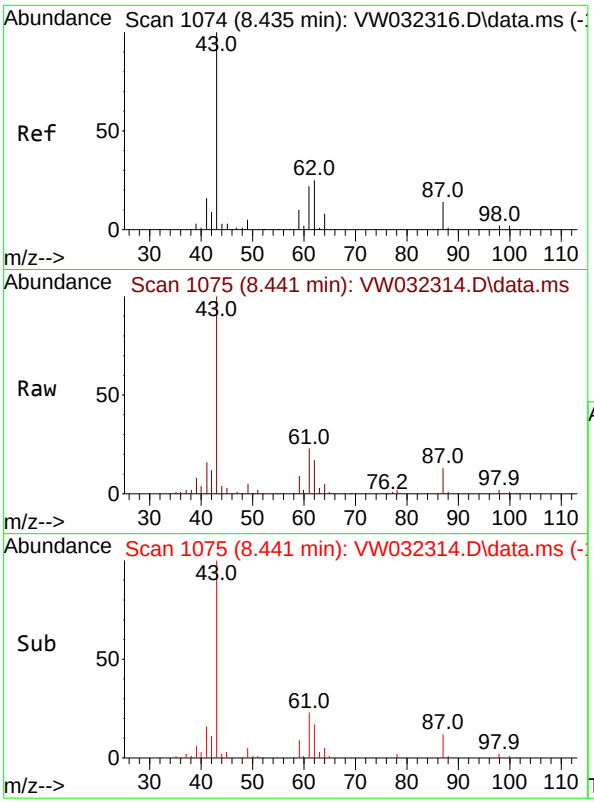


#42
1,2-Dichloroethane
Concen: 10.602 ug/l
RT: 8.416 min Scan# 1071
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 62 Resp: 52201

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.0





#43
Isopropyl Acetate
Concen: 10.001 ug/l
RT: 8.441 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

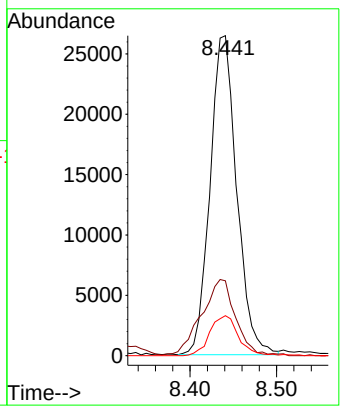
Tgt Ion: 43 Resp: 5669

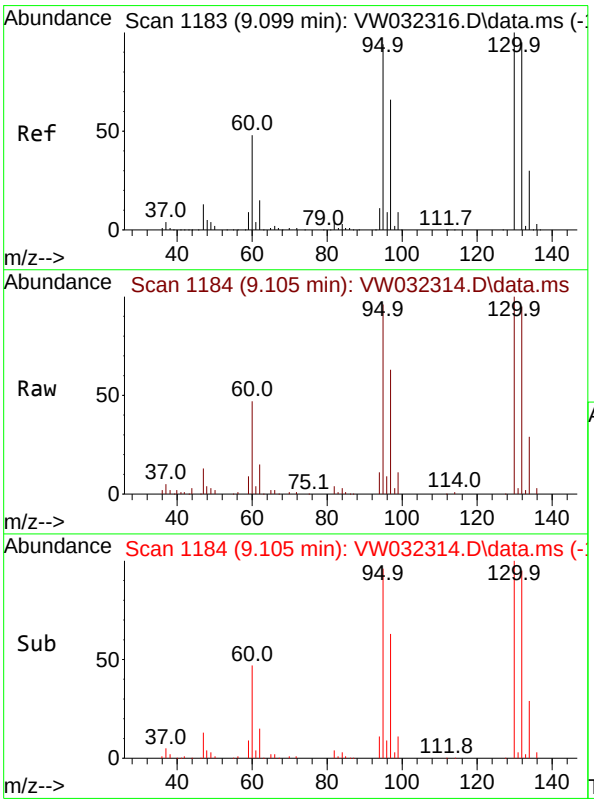
Ion	Ratio	Lower	Upper
43	100		
61	30.5	23.3	34.9
87	13.5	11.1	16.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

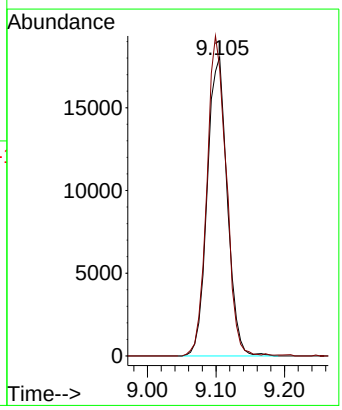


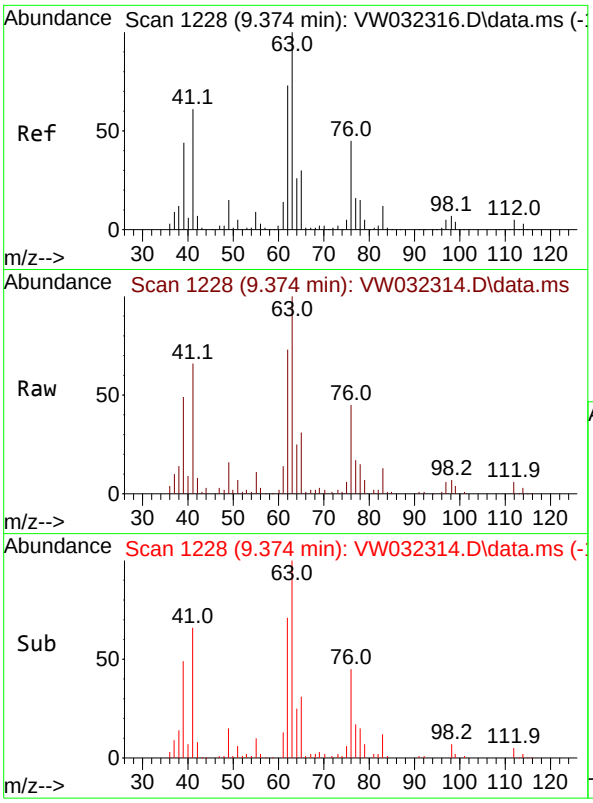


#44
Trichloroethene
Concen: 10.387 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:130 Resp: 36599

Ion	Ratio	Lower	Upper
130	100		
95	96.3	0.0	220.0

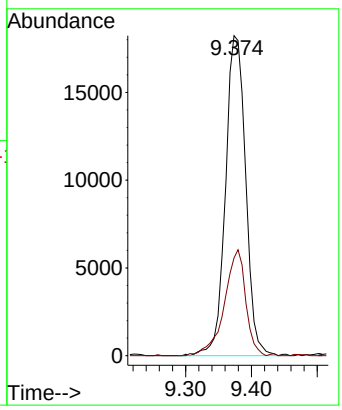




#45
1,2-Dichloropropane
Concen: 10.371 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 63 Resp: 3895

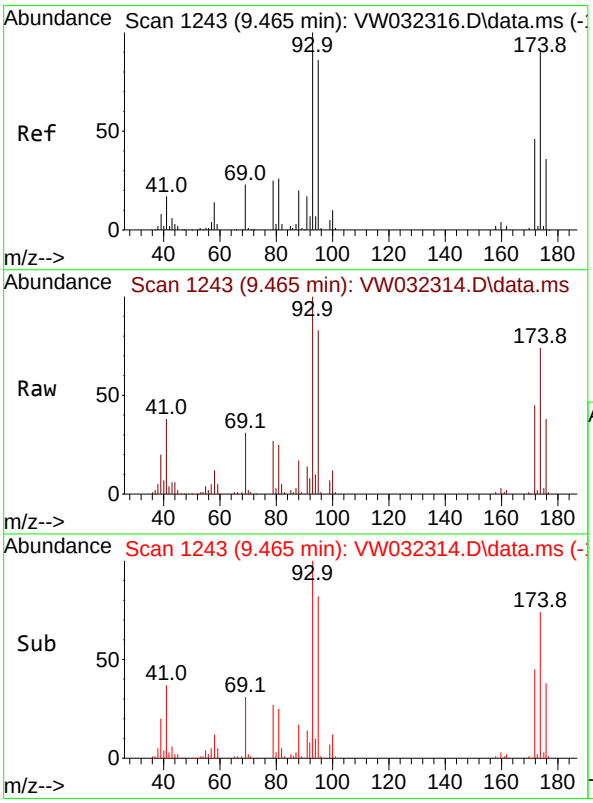
Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.3	36.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

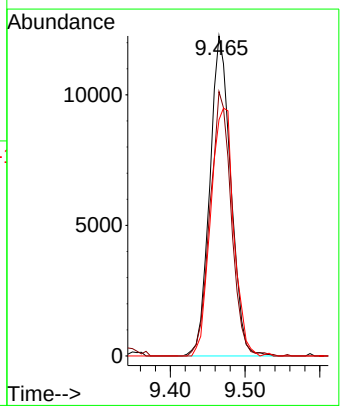
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

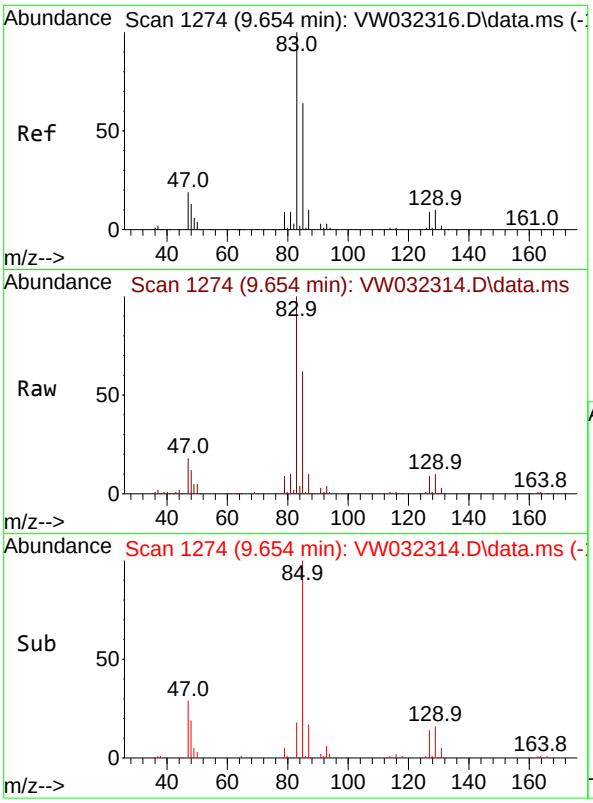


#46
Dibromomethane
Concen: 10.407 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 93 Resp: 24036

Ion	Ratio	Lower	Upper
93	100		
95	83.1	67.4	101.2
174	84.5	75.7	113.5

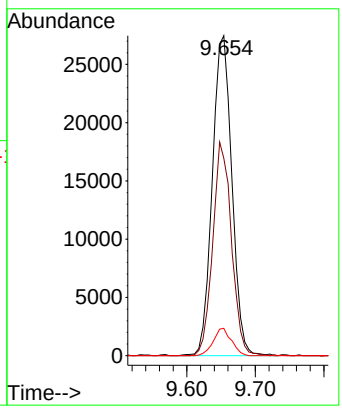




#47
Bromodichloromethane
Concen: 10.286 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 83 Resp: 5433

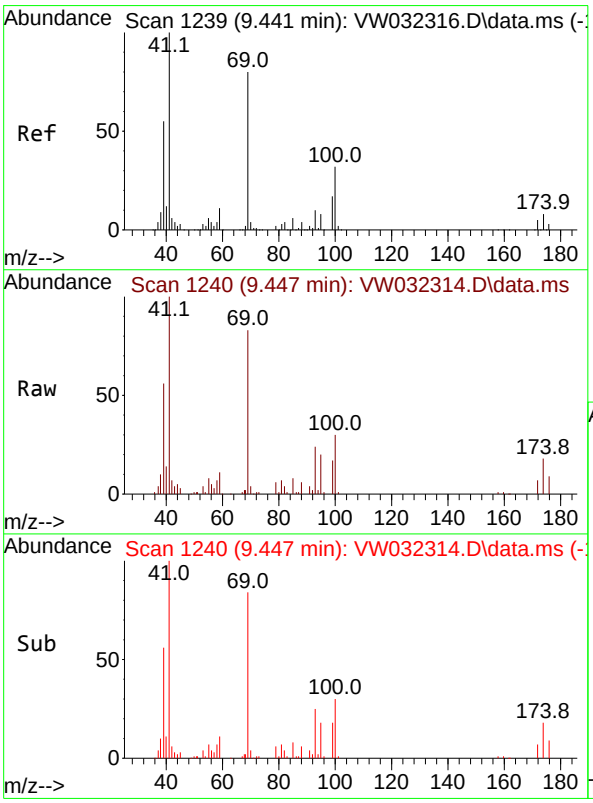
Ion	Ratio	Lower	Upper
83	100		
85	61.7	48.7	73.1
127	8.5	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

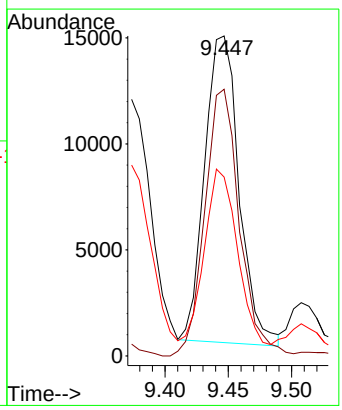
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

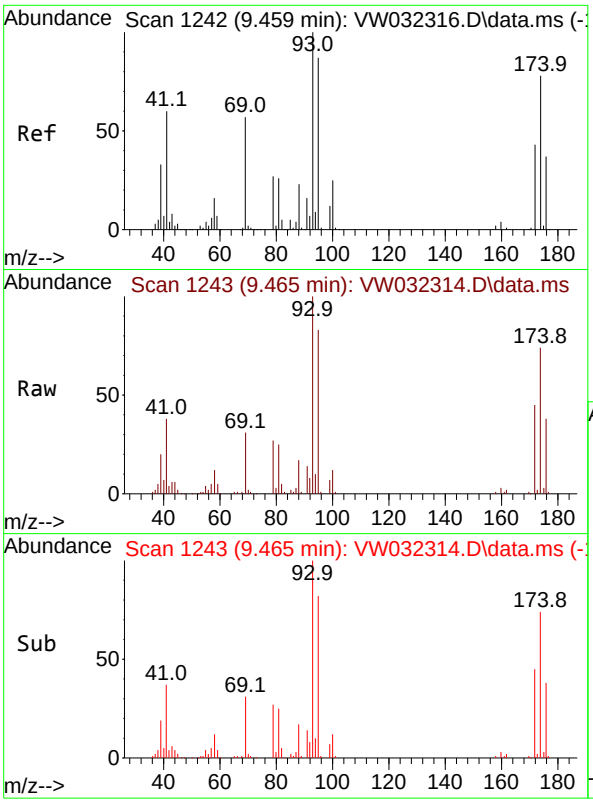


#48
Methyl methacrylate
Concen: 9.921 ug/l
RT: 9.447 min Scan# 1240
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 41 Resp: 27343

Ion	Ratio	Lower	Upper
41	100		
69	87.7	71.5	107.3
39	60.9	55.9	83.9

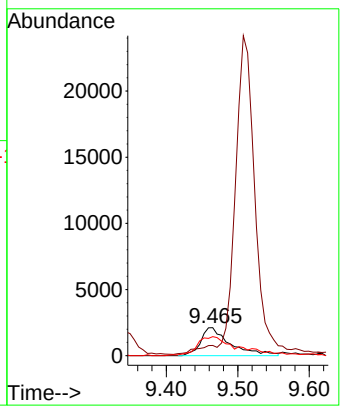




#49
1,4-Dioxane
Concen: 193.232 ug/l
RT: 9.465 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 88 Resp: 610

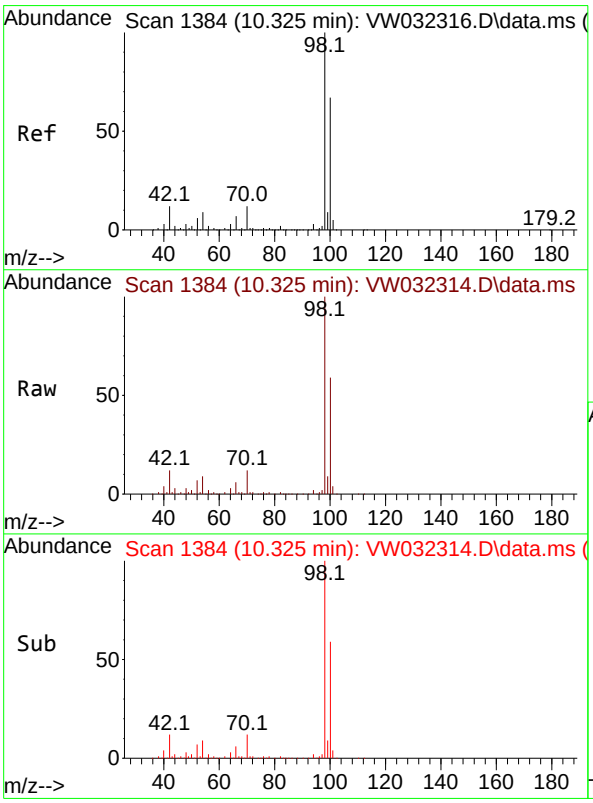
Ion	Ratio	Lower	Upper
88	100		
43	0.0	18.0	27.0#
58	95.6	55.4	83.0#



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

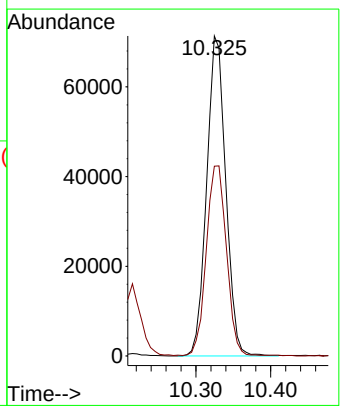
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

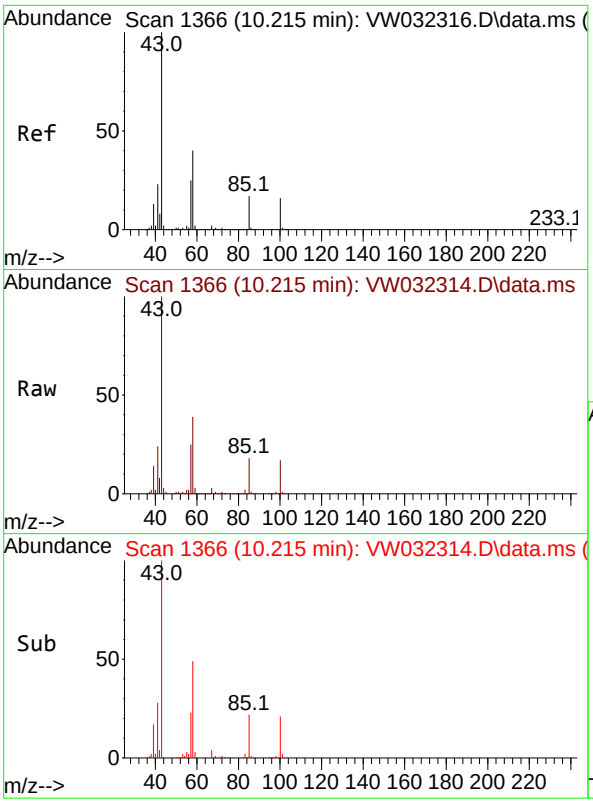


#50
Toluene-d8
Concen: 10.078 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 98 Resp: 126526

Ion	Ratio	Lower	Upper
98	100		
100	62.5	51.4	77.2

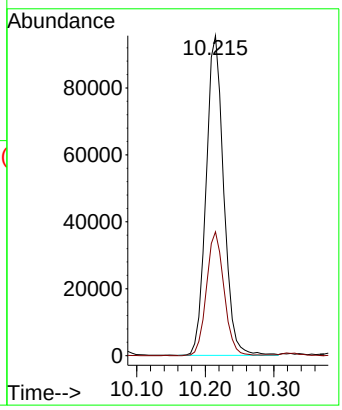




#51
4-Methyl-2-Pentanone
Concen: 51.916 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 43 Resp: 17045

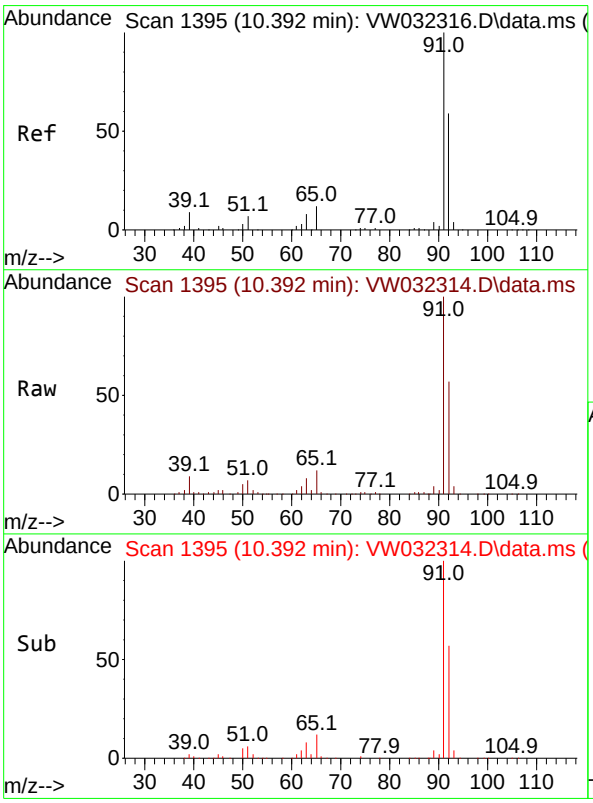
Ion	Ratio	Lower	Upper
43	100		
58	38.7	32.0	48.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

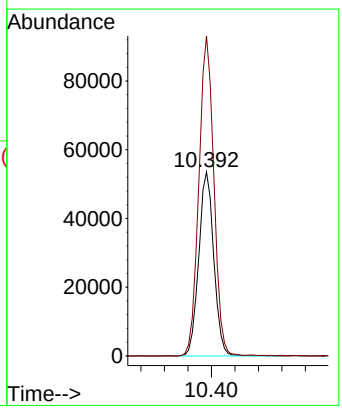
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

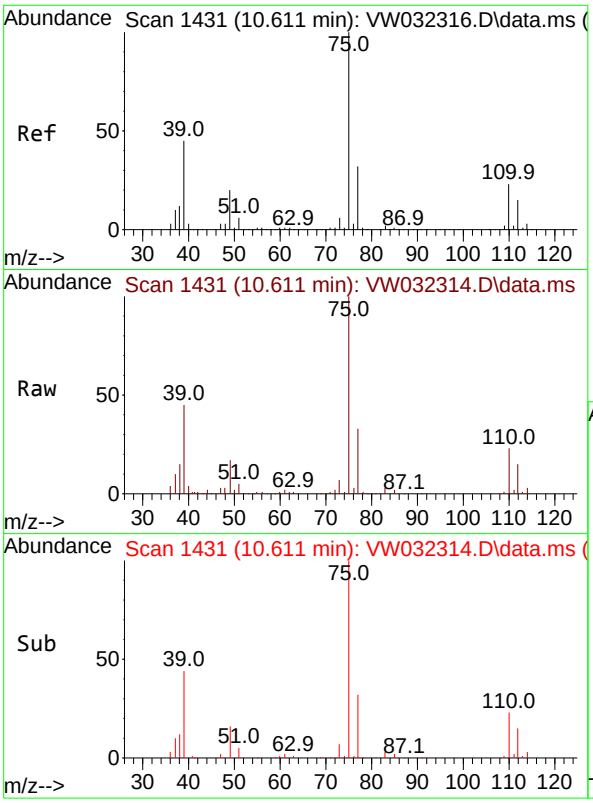


#52
Toluene
Concen: 10.146 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 92 Resp: 95076

Ion	Ratio	Lower	Upper
92	100		
91	173.4	137.5	206.3





#53
t-1,3-Dichloropropene
Concen: 9.878 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

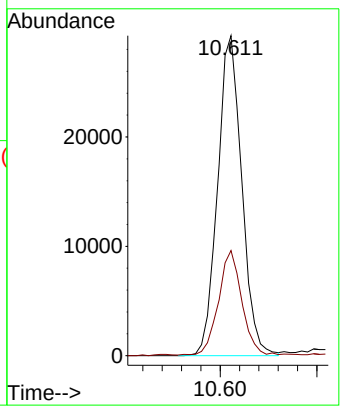
Tgt Ion: 75 Resp: 5062

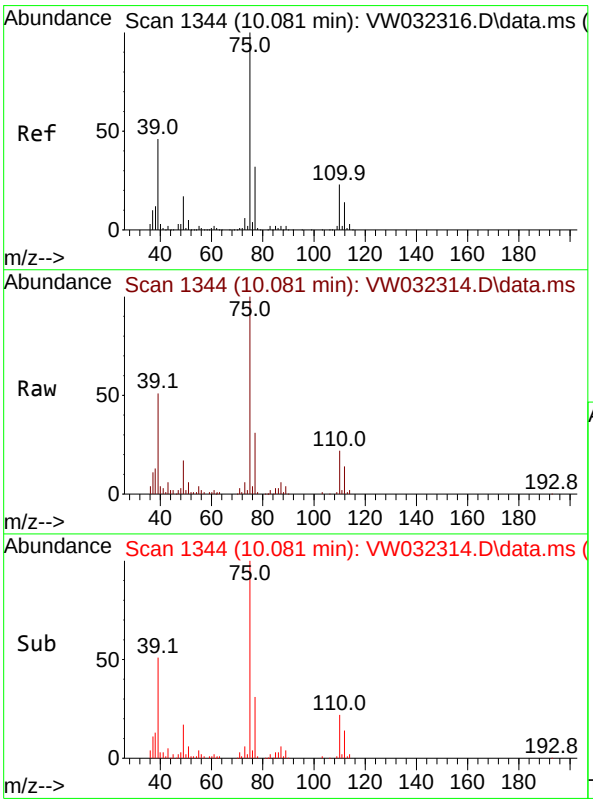
Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.6	38.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

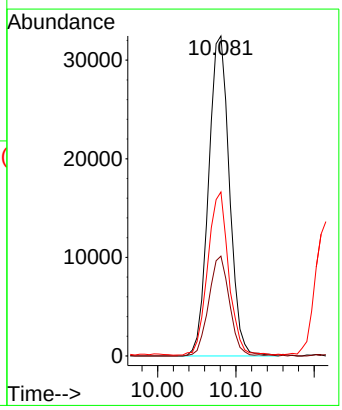


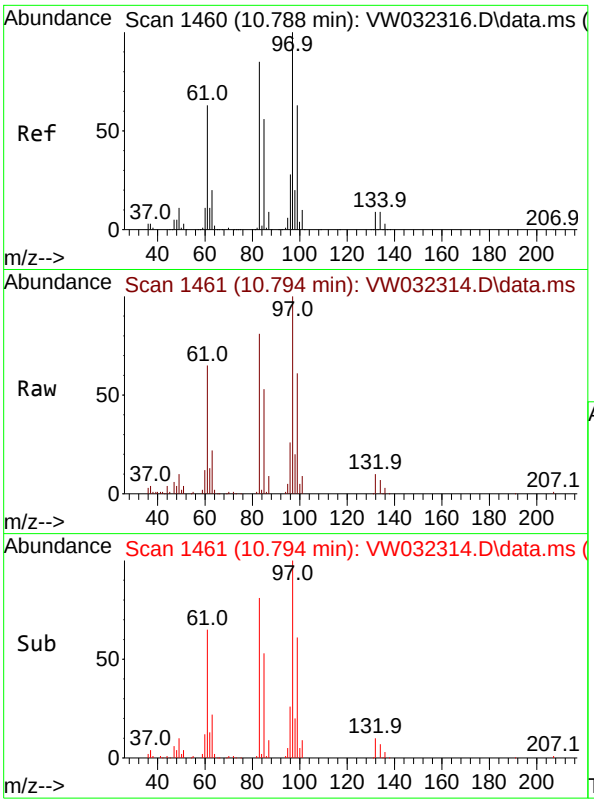


#54
cis-1,3-Dichloropropene
Concen: 10.158 ug/l
RT: 10.081 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 75 Resp: 59970

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.1	37.7
39	51.0	43.2	64.8

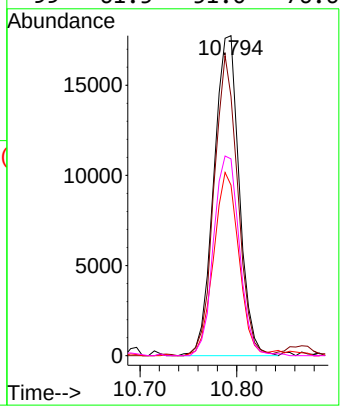




#55
1,1,2-Trichloroethane
Concen: 10.447 ug/l
RT: 10.794 min Scan# 14
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 97 Resp: 3224

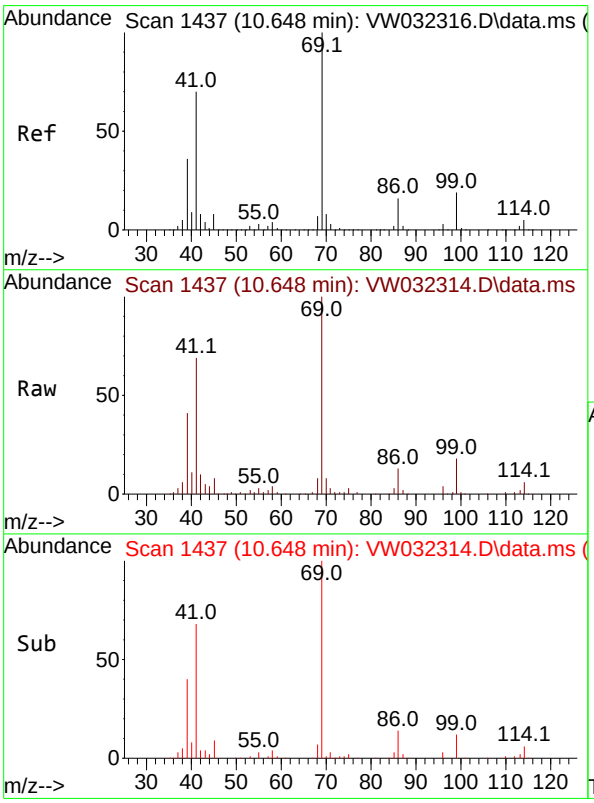
Ion	Ratio	Lower	Upper
97	100		
83	81.0	71.0	106.6
85	53.3	42.8	64.2
99	61.5	51.0	76.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

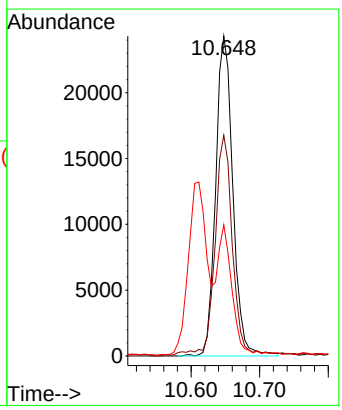
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

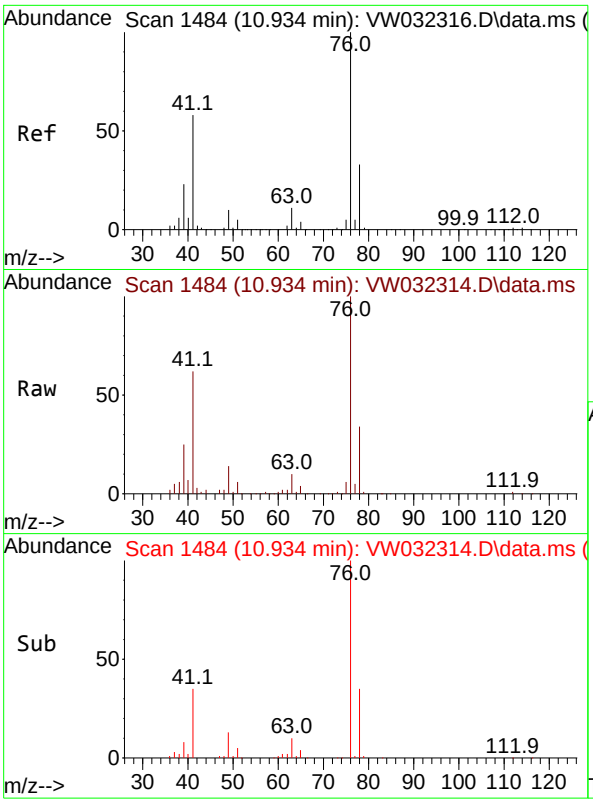


#56
Ethyl methacrylate
Concen: 9.750 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 69 Resp: 42126

Ion	Ratio	Lower	Upper
69	100		
41	71.6	53.2	79.8
39	36.1	32.9	49.3

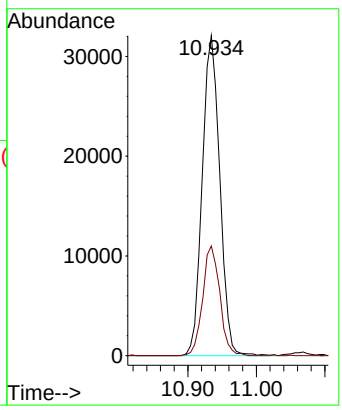




#57
1,3-Dichloropropane
Concen: 10.501 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 76 Resp: 5724

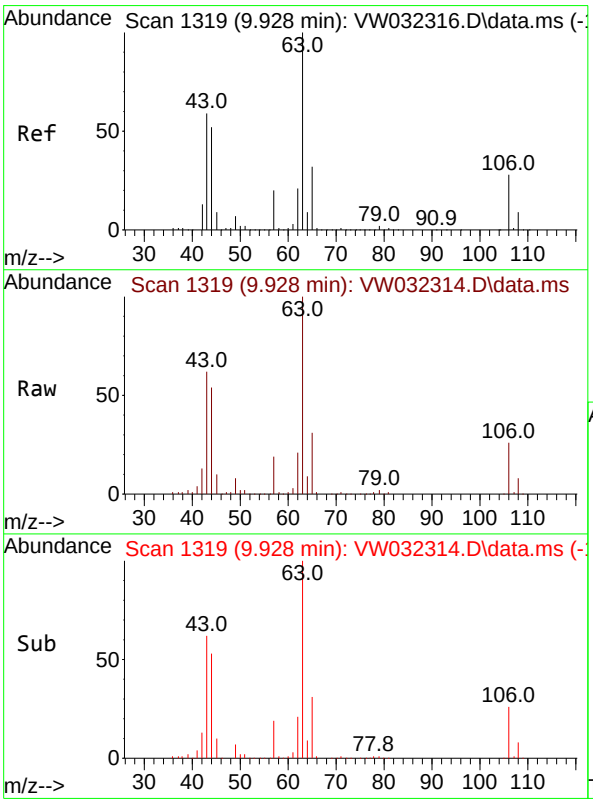
Ion	Ratio	Lower	Upper
76	100		
78	33.5	26.2	39.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

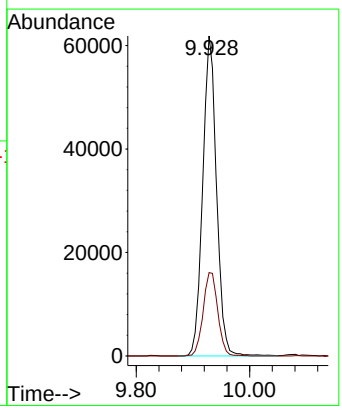
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

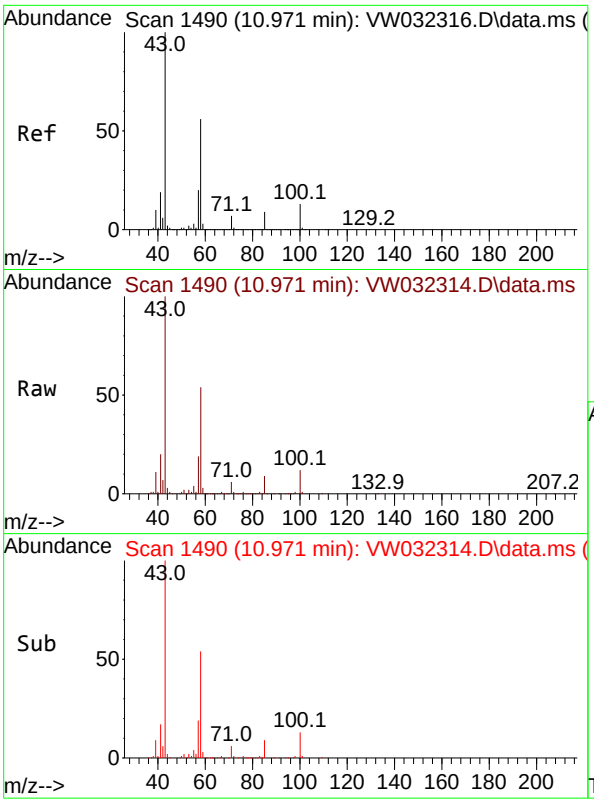


#58
2-Chloroethyl Vinyl ether
Concen: 45.484 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 63 Resp: 104587

Ion	Ratio	Lower	Upper
63	100		
106	27.5	24.3	36.5





#59
2-Hexanone
Concen: 50.996 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

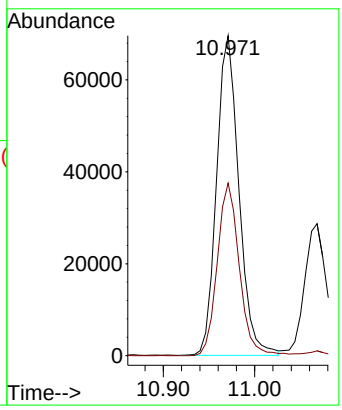
Tgt Ion: 43 Resp: 11808

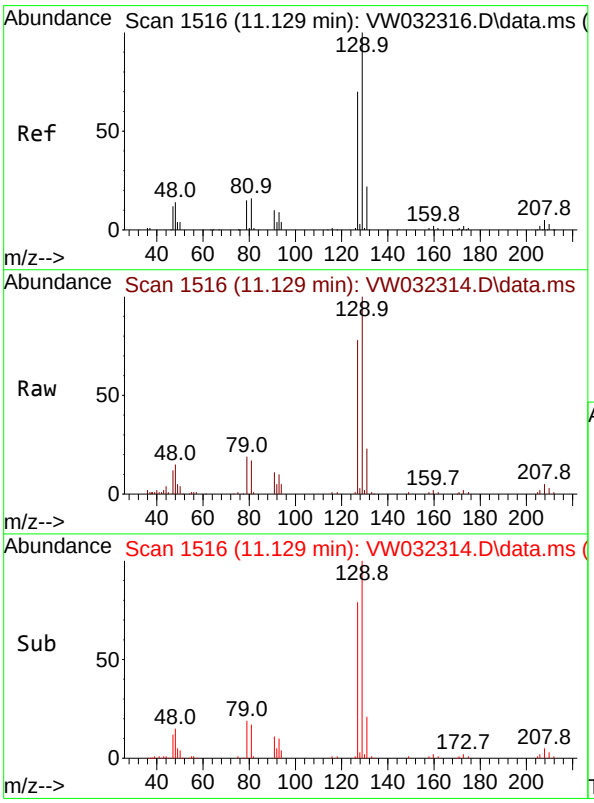
Ion	Ratio	Lower	Upper
43	100		
58	53.3	27.5	82.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

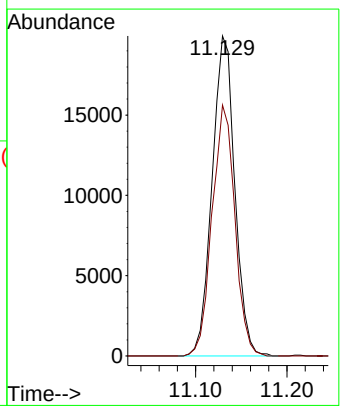


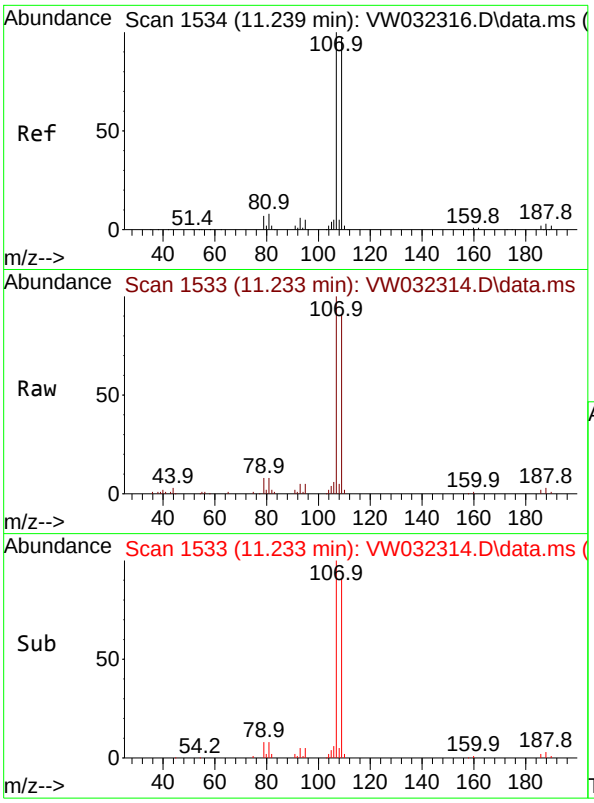


#60
Dibromochloromethane
Concen: 9.806 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:129 Resp: 34371

Ion	Ratio	Lower	Upper
129	100		
127	78.7	38.1	114.5





#61
1,2-Dibromoethane
Concen: 10.308 ug/l
RT: 11.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

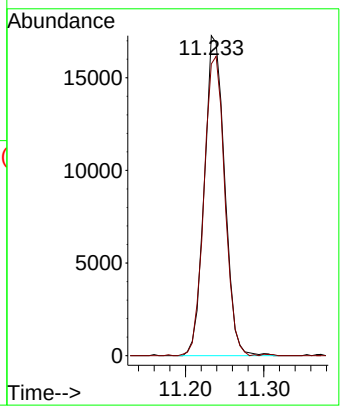
Tgt Ion:107 Resp: 3102

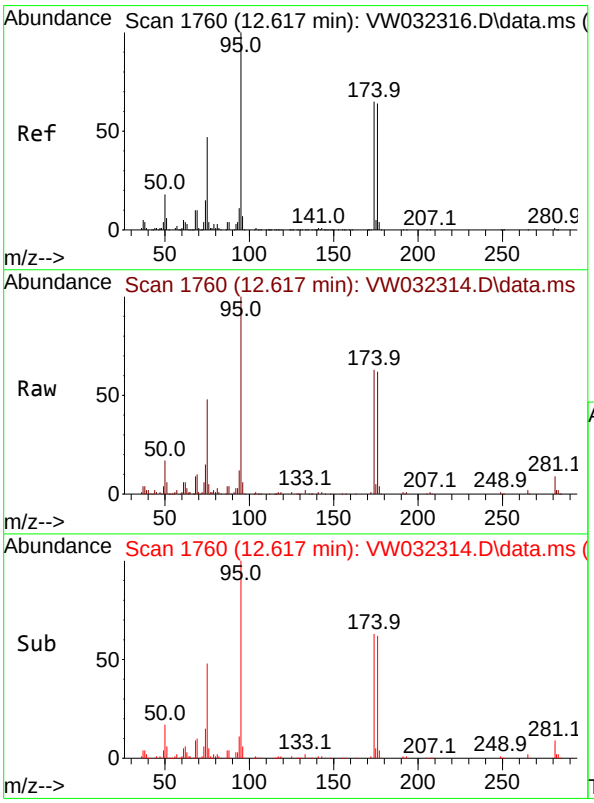
Ion	Ratio	Lower	Upper
107	100		
109	95.8	74.5	111.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

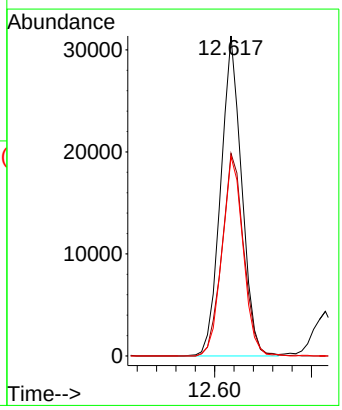


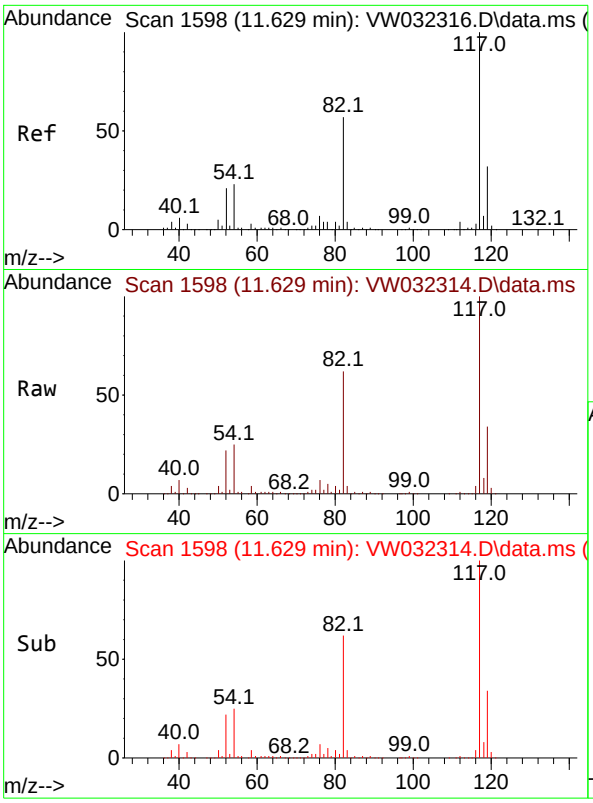


#62
4-Bromofluorobenzene
Concen: 9.936 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 95 Resp: 47150

Ion	Ratio	Lower	Upper
95	100		
174	65.8	0.0	145.6
176	62.6	0.0	140.8

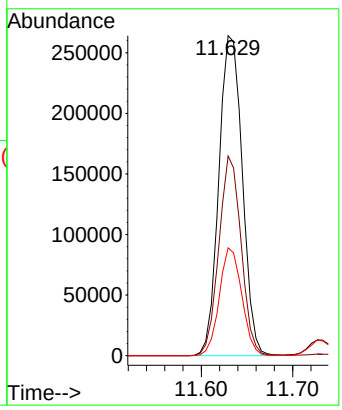




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:117 Resp: 47172

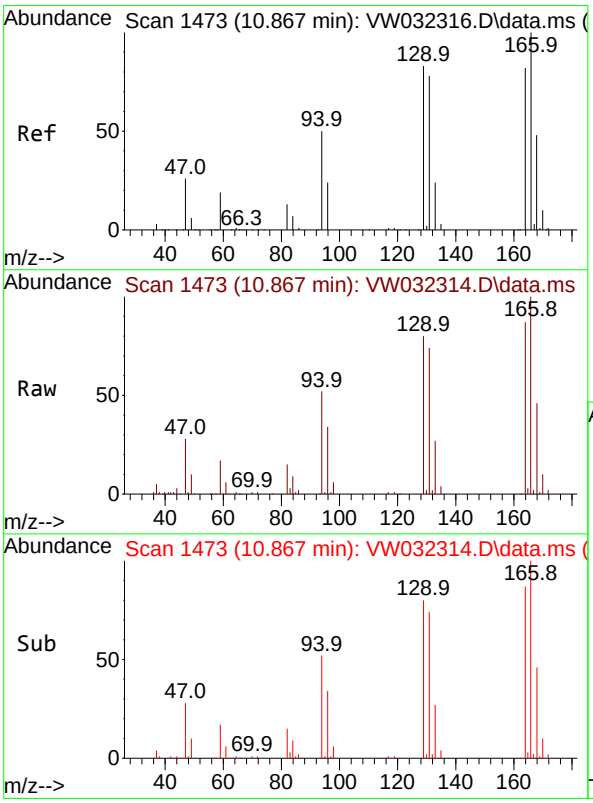
Ion	Ratio	Lower	Upper
117	100		
82	62.4	42.7	64.1
119	33.7	25.2	37.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

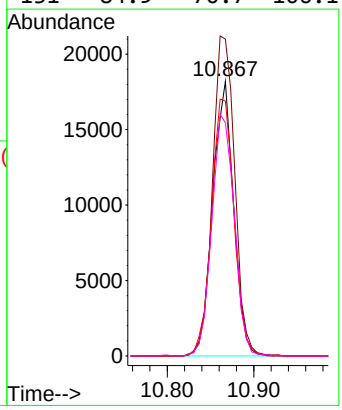
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

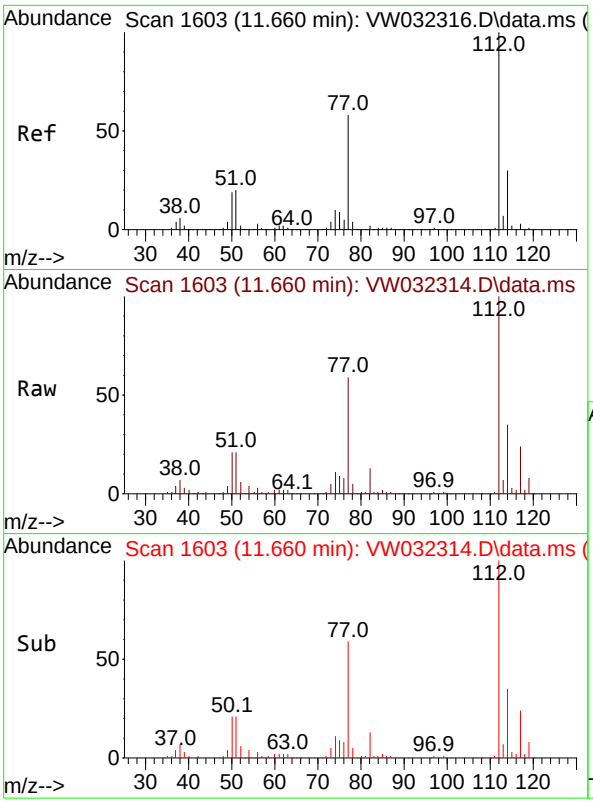


#64
Tetrachloroethene
Concen: 10.851 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:164 Resp: 30629

Ion	Ratio	Lower	Upper
164	100		
166	115.3	97.5	146.3
129	92.8	71.2	106.8
131	84.9	70.7	106.1

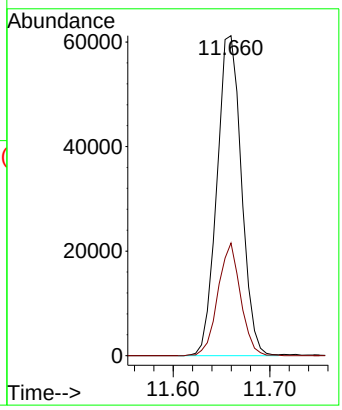




#65
Chlorobenzene
Concen: 10.362 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:112 Resp: 10755

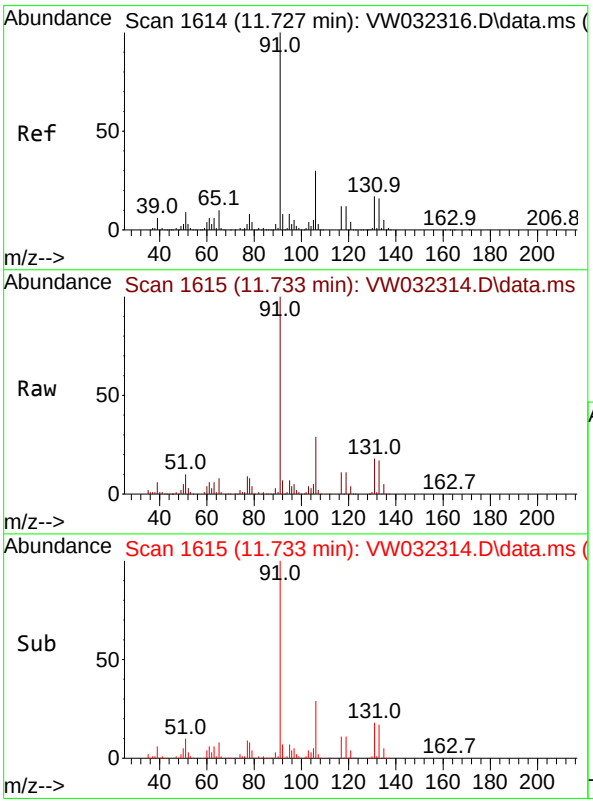
Ion	Ratio	Lower	Upper
112	100		
114	35.2	26.0	39.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

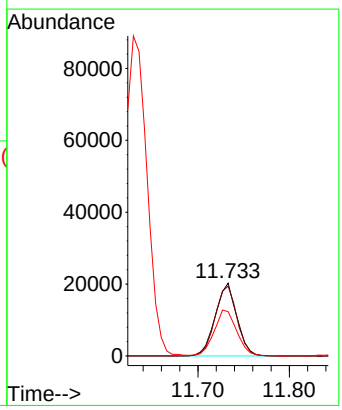
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

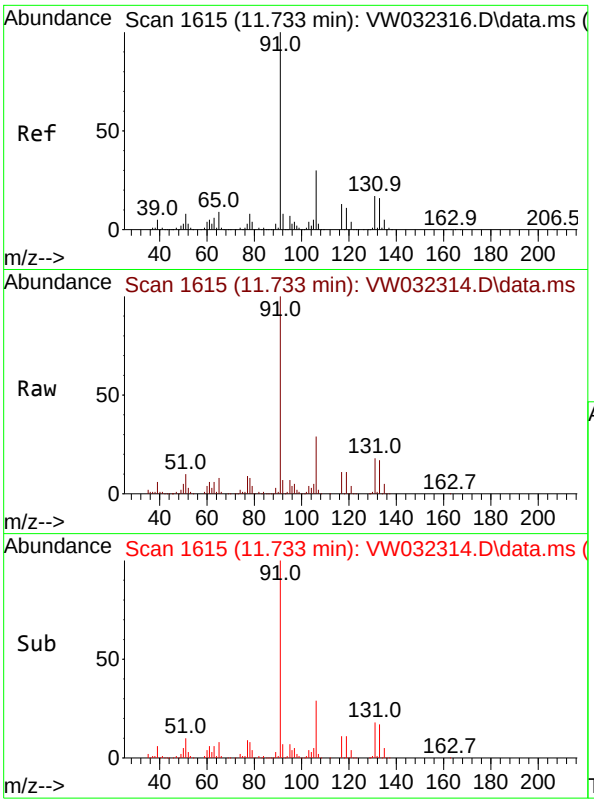


#66
1,1,1,2-Tetrachloroethane
Concen: 10.240 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:131 Resp: 33104

Ion	Ratio	Lower	Upper
131	100		
133	98.6	47.7	143.1
119	66.6	32.8	98.3

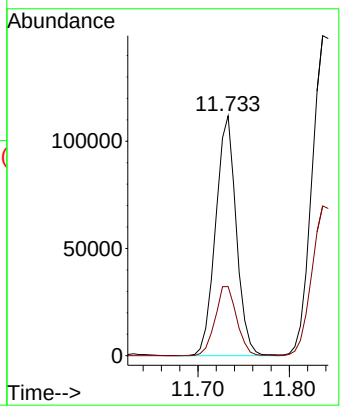




#67
Ethyl Benzene
Concen: 10.149 ug/l
RT: 11.733 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 91 Resp: 17558

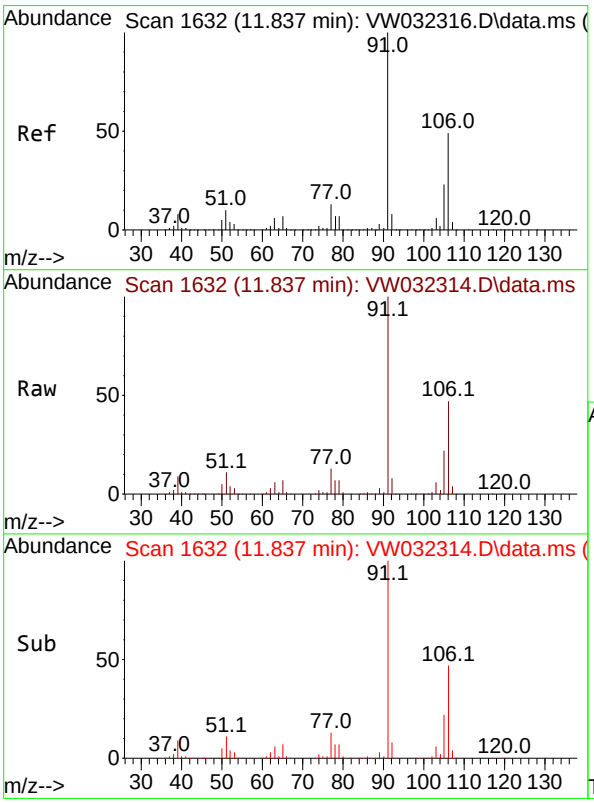
Ion	Ratio	Lower	Upper
91	100		
106	28.8	25.3	37.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

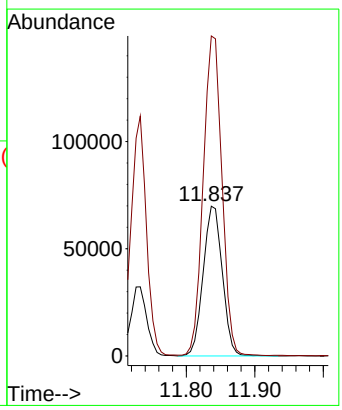
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

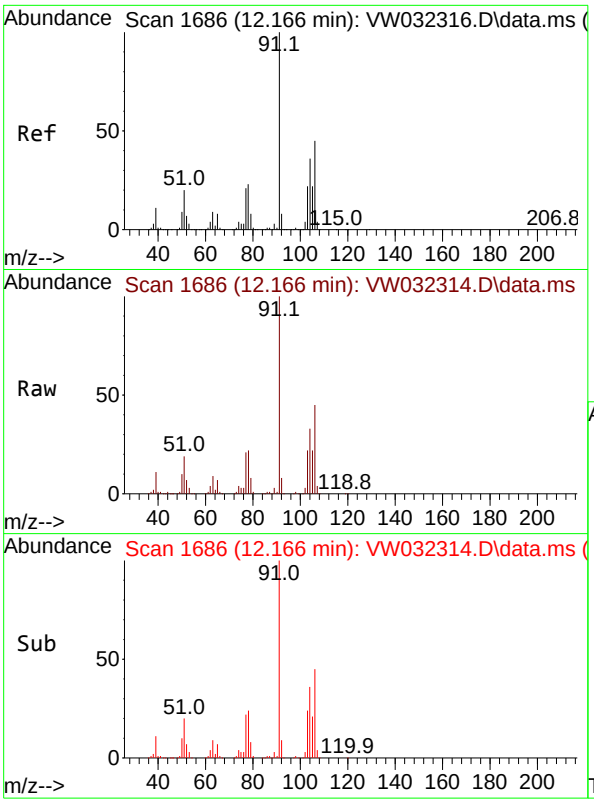


#68
m/p-Xylenes
Concen: 20.370 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:106 Resp: 135895

Ion	Ratio	Lower	Upper
106	100		
91	208.1	164.2	246.2





#69
o-Xylene
Concen: 10.052 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

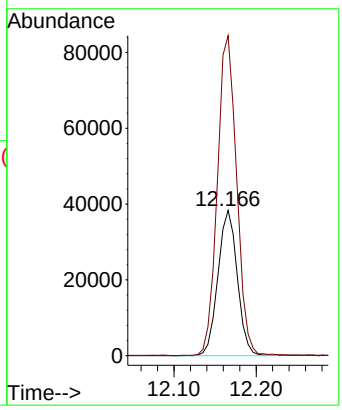
Tgt Ion:106 Resp: 6271

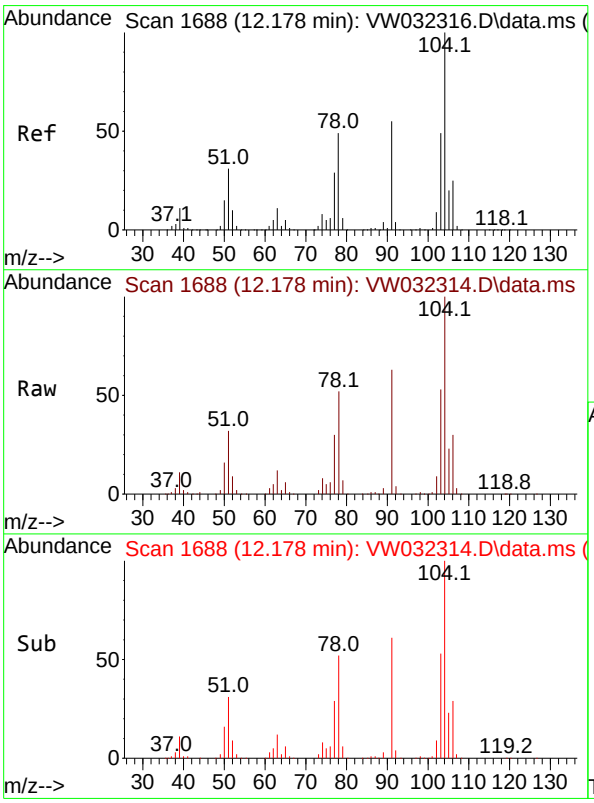
Ion	Ratio	Lower	Upper
106	100		
91	220.8	108.7	326.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

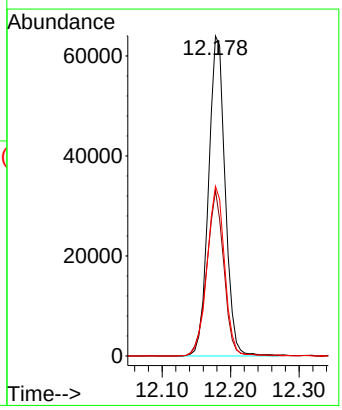


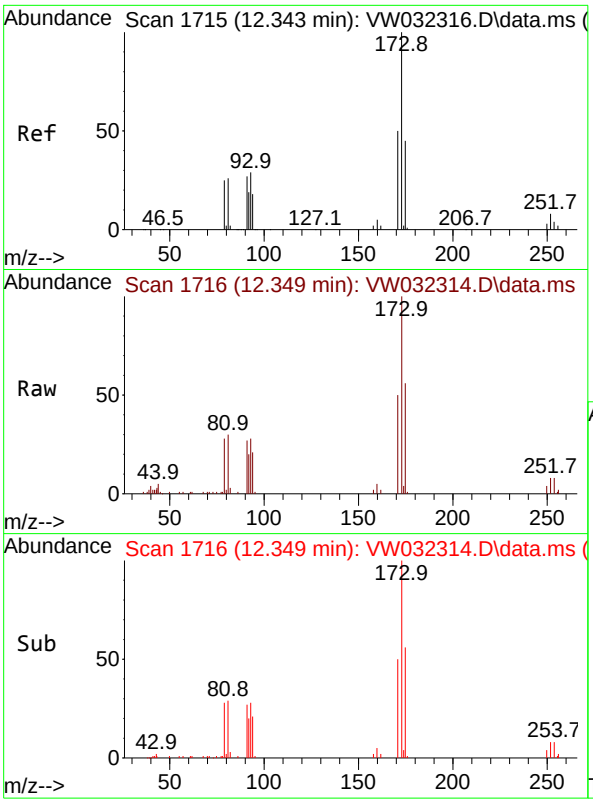


#70
Styrene
Concen: 9.899 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:104 Resp: 107824

Ion	Ratio	Lower	Upper
104	100		
78	53.3	41.6	62.4
103	56.0	44.8	67.2

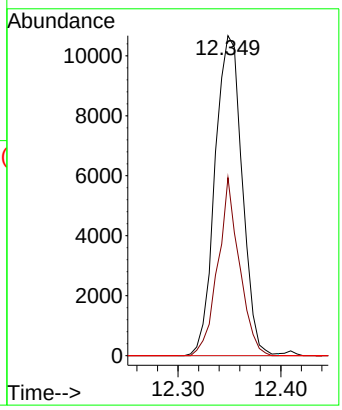




#71
Bromoform
Concen: 10.562 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:173 Resp: 1957

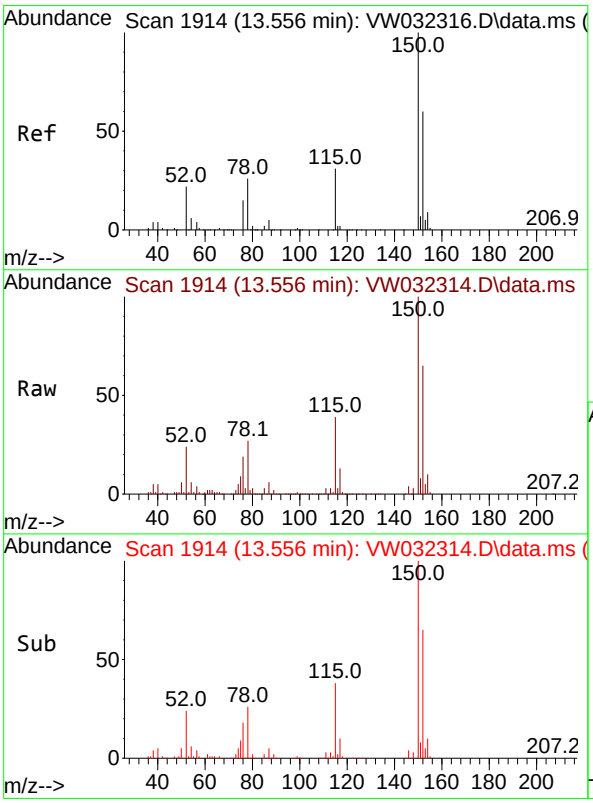
Ion	Ratio	Lower	Upper
173	100		
175	44.1	24.9	74.7
254	0.0	0.2	0.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

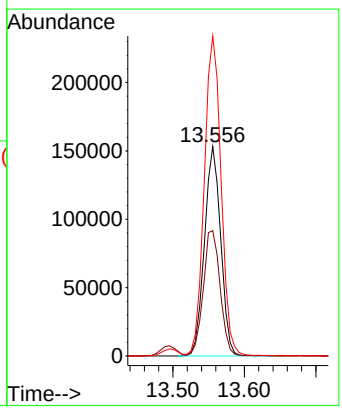
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

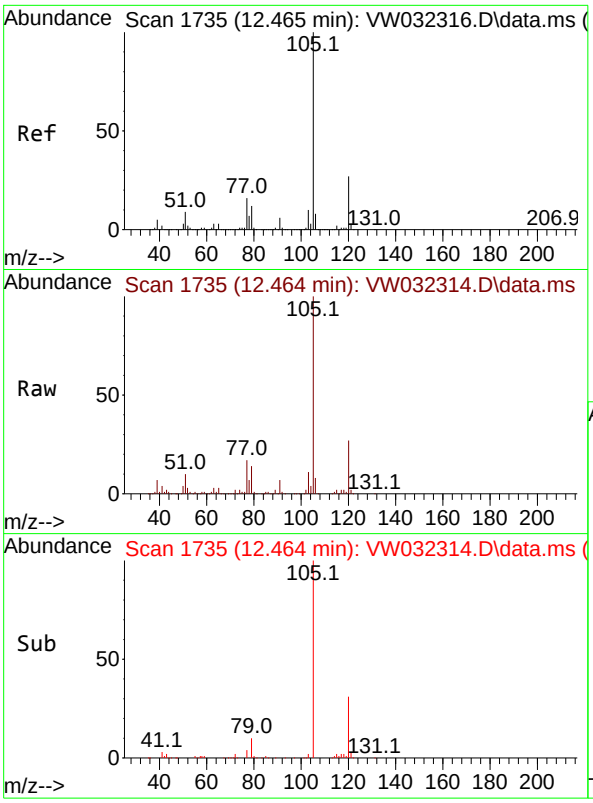


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:152 Resp: 242027

Ion	Ratio	Lower	Upper
152	100		
115	61.7	31.8	95.4
150	157.1	0.0	343.0

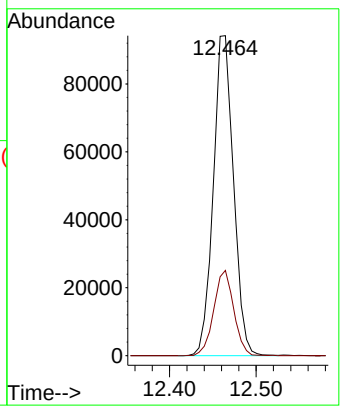




#73
Isopropylbenzene
Concen: 9.234 ug/l
RT: 12.464 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:105 Resp: 15289

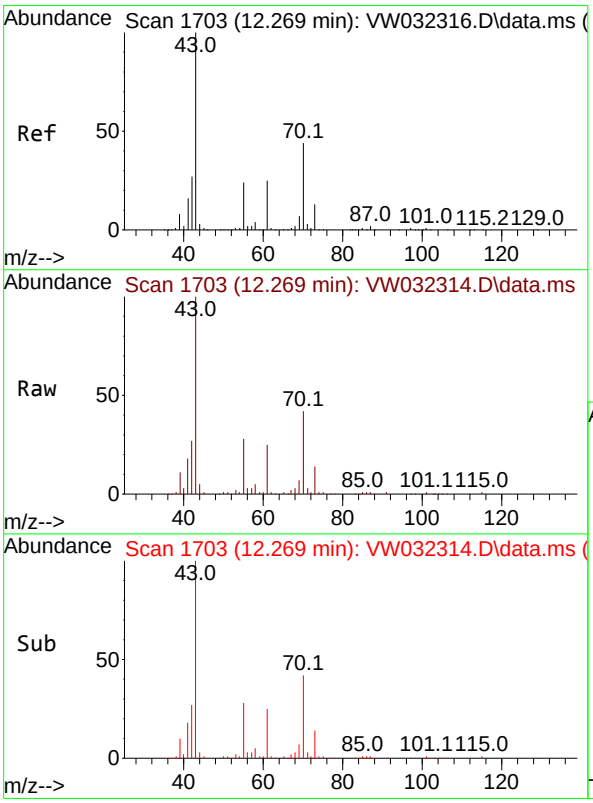
Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.0	38.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

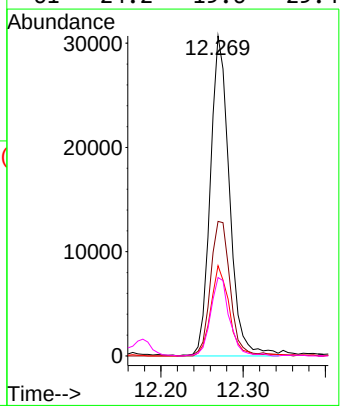
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

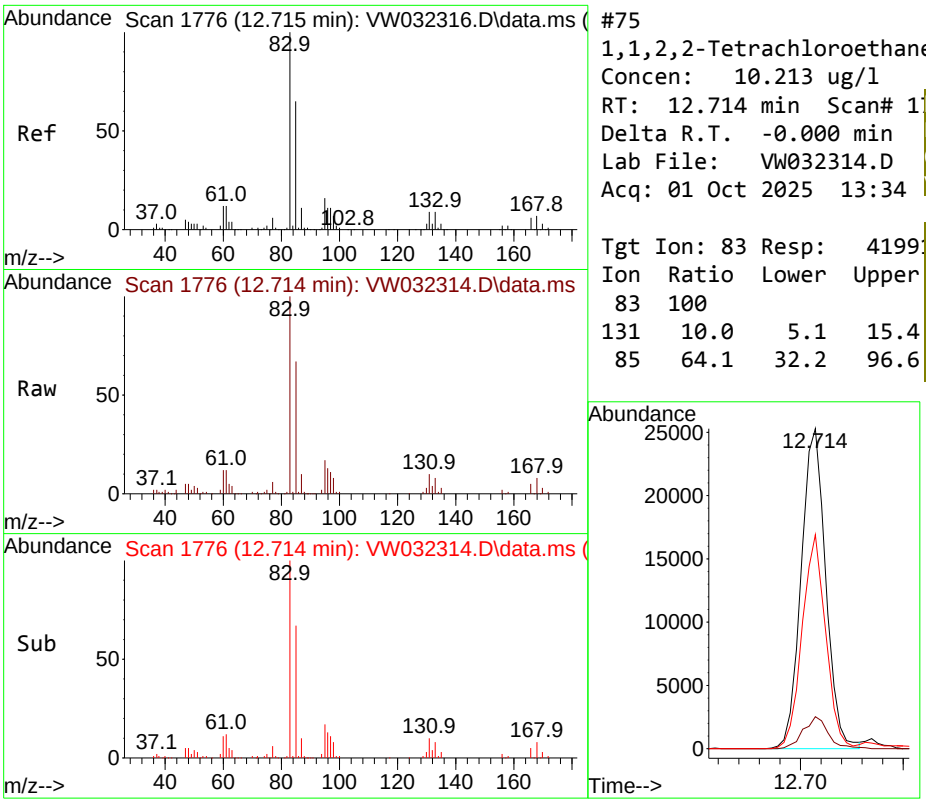


#74
N-amyl acetate
Concen: 9.412 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 43 Resp: 49718

Ion	Ratio	Lower	Upper
43	100		
70	43.7	35.3	52.9
55	26.8	19.9	29.9
61	24.2	19.6	29.4





#75
1,1,2,2-Tetrachloroethane
Concen: 10.213 ug/l
RT: 12.714 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

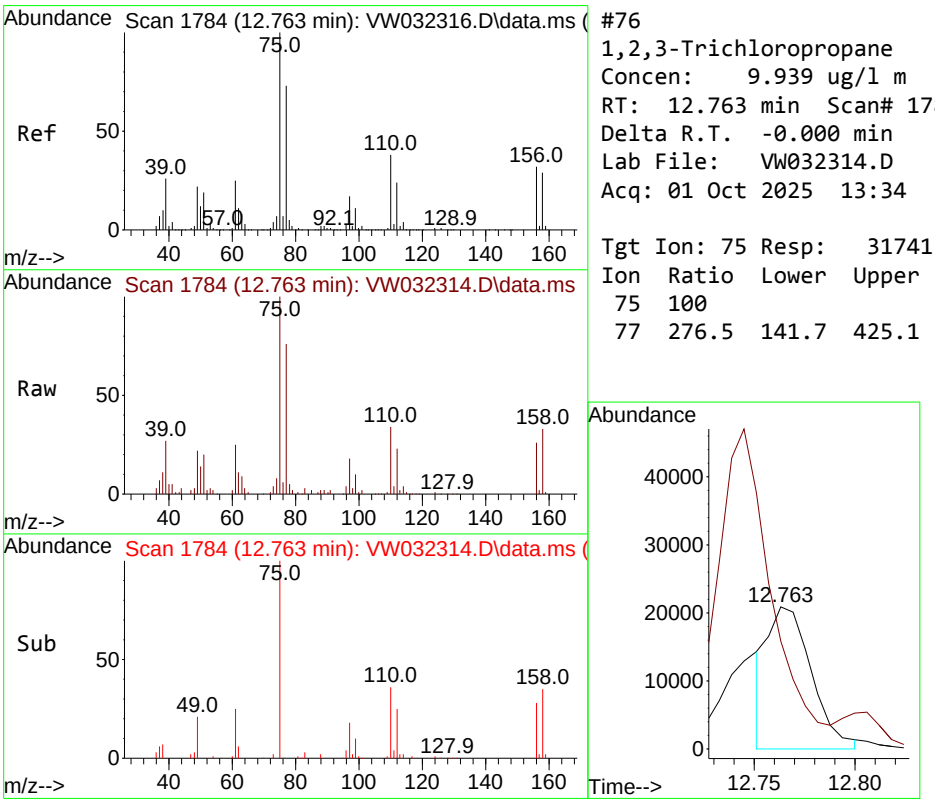
Tgt Ion: 83 Resp: 4199

Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.4
85	64.1	32.2	96.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

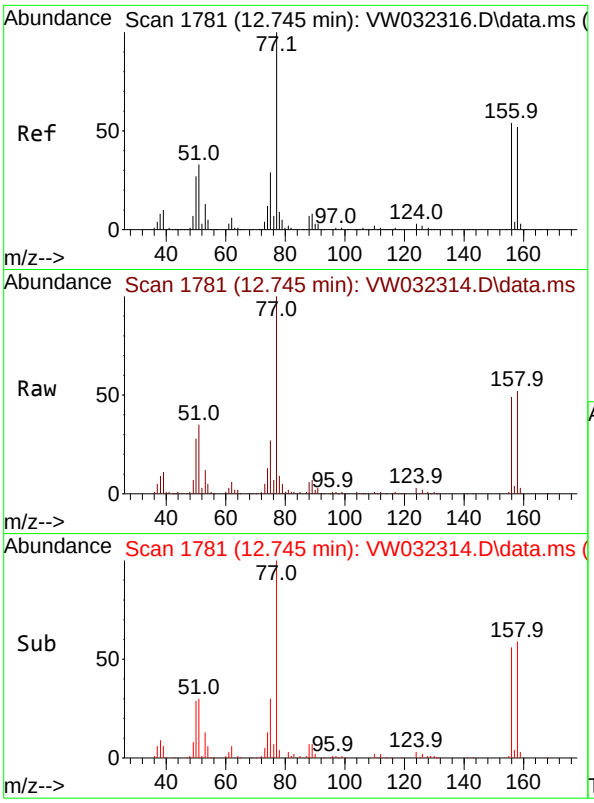
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025



#76
1,2,3-Trichloropropane
Concen: 9.939 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 75 Resp: 31741

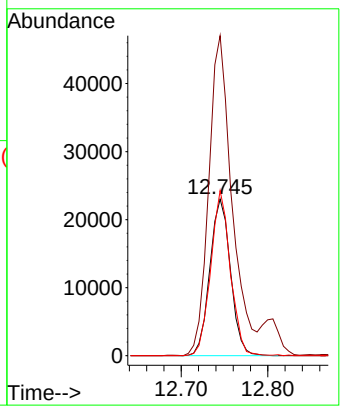
Ion	Ratio	Lower	Upper
75	100		
77	276.5	141.7	425.1



#77
Bromobenzene
Concen: 9.547 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:156 Resp: 3810

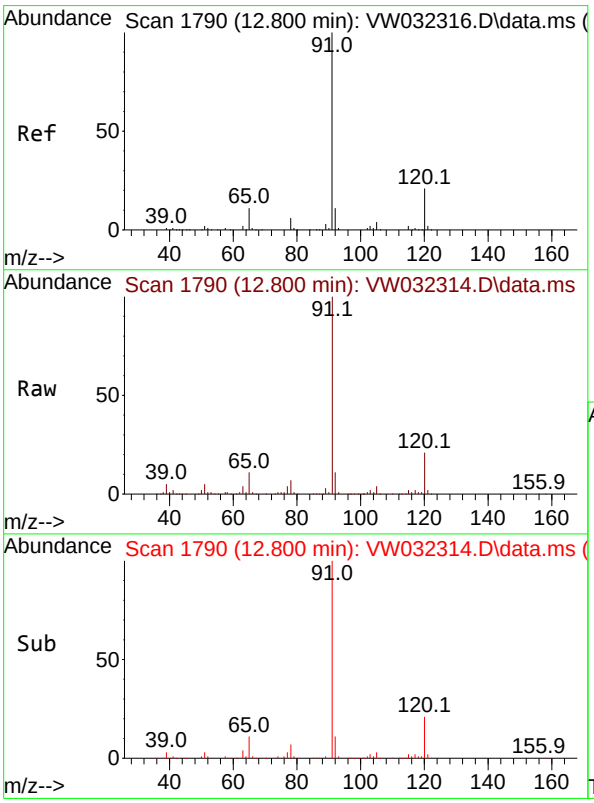
Ion	Ratio	Lower	Upper
156	100		
77	230.4	98.6	295.7
158	100.7	48.4	145.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

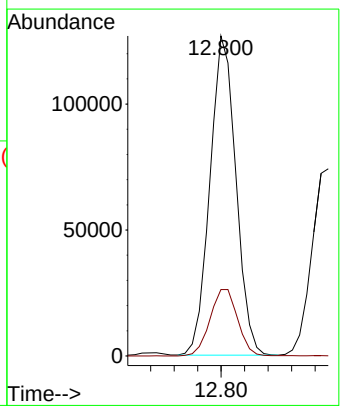
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

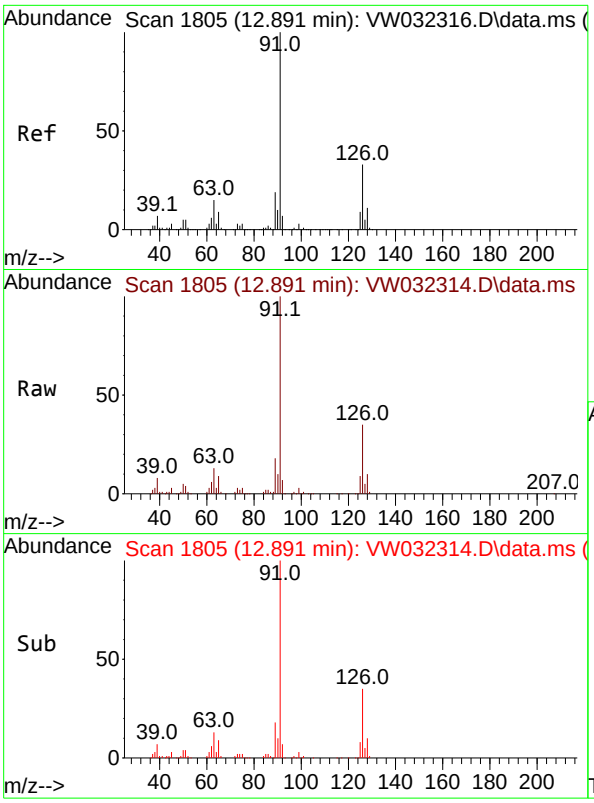


#78
n-propylbenzene
Concen: 9.421 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 91 Resp: 194851

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.8	35.4

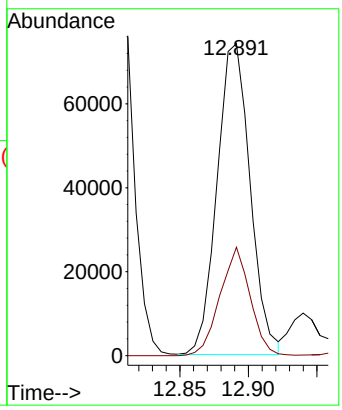




#79
2-Chlorotoluene
Concen: 9.855 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 91 Resp: 12463

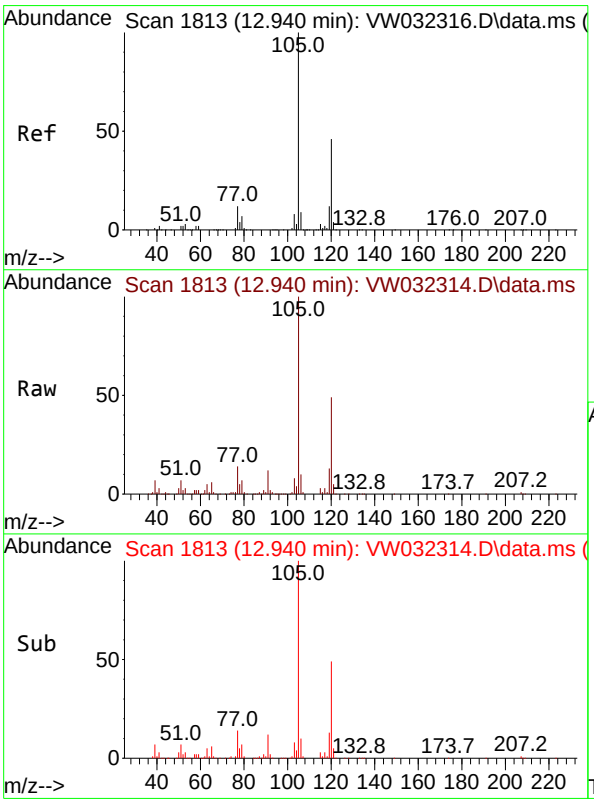
Ion	Ratio	Lower	Upper
91	100		
126	31.8	16.6	49.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

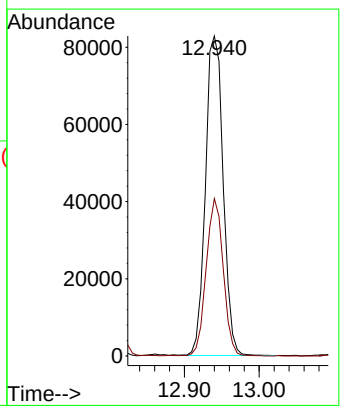
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

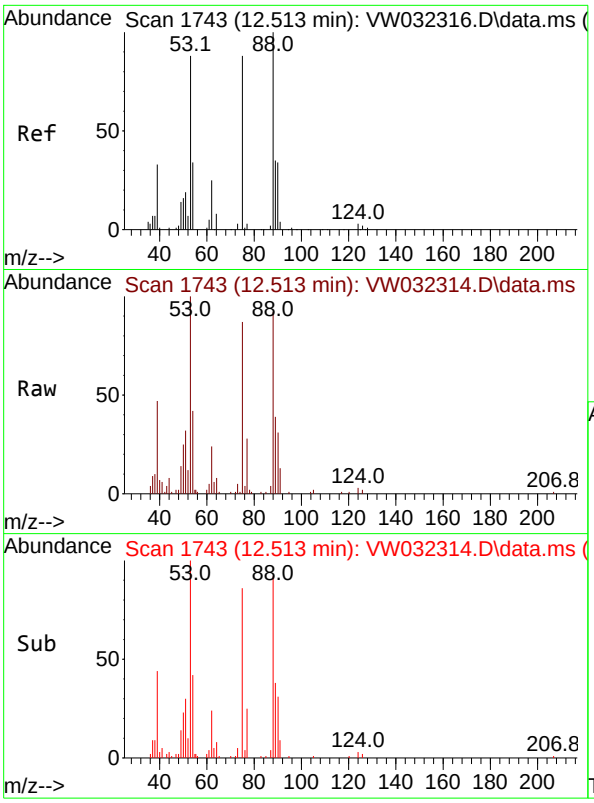


#80
1,3,5-Trimethylbenzene
Concen: 9.490 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:105 Resp: 135870

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.8	74.4

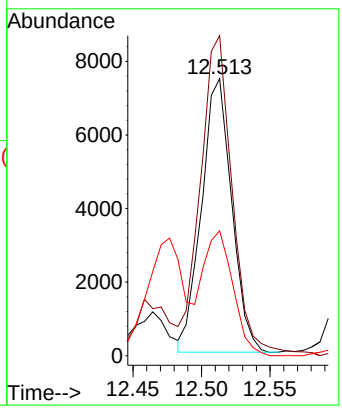




#81
trans-1,4-Dichloro-2-butene
Concen: 9.067 ug/l
RT: 12.513 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 75 Resp: 1139

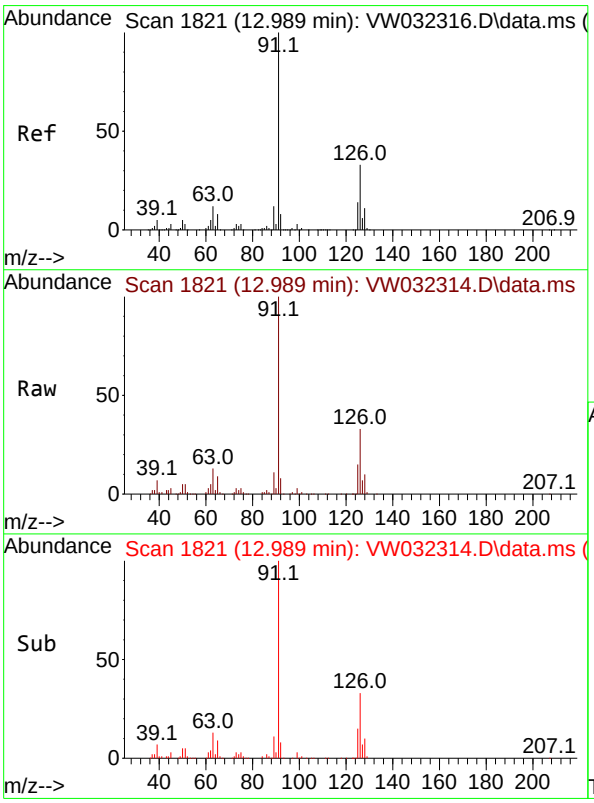
Ion	Ratio	Lower	Upper
75	100		
53	124.5	91.0	136.6
89	44.1	39.4	59.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

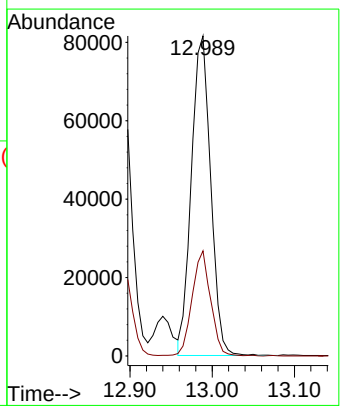
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

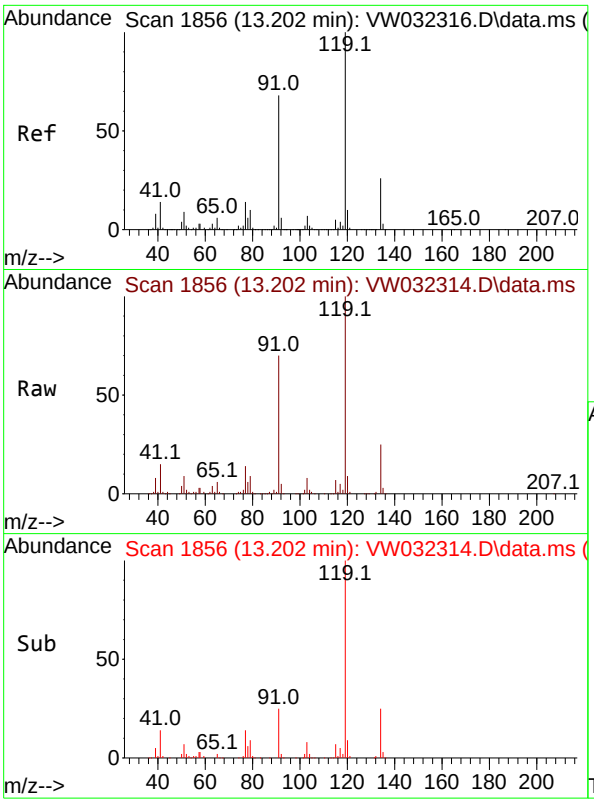


#82
4-Chlorotoluene
Concen: 9.874 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 91 Resp: 132770

Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.1	48.2

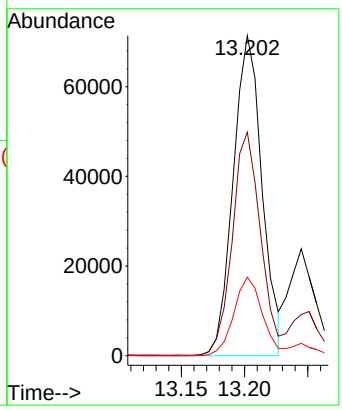




#83
tert-Butylbenzene
Concen: 9.669 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:119 Resp: 11359

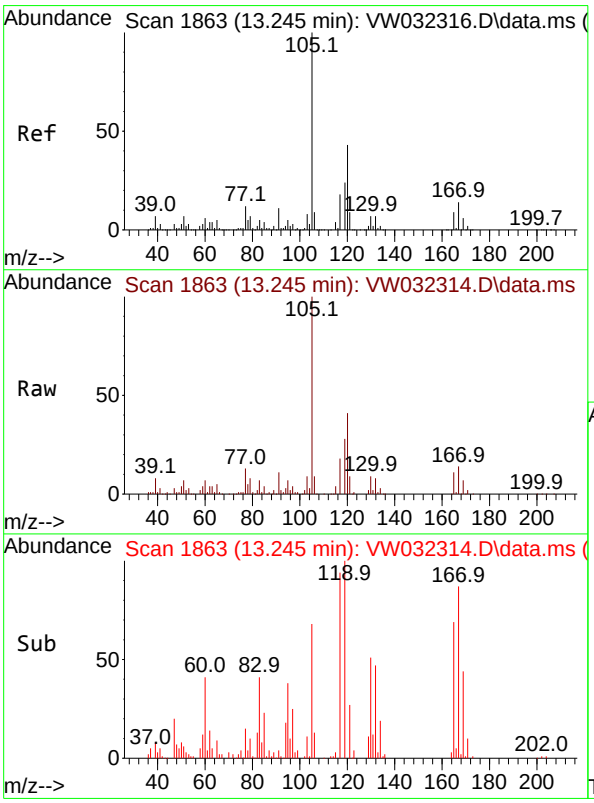
Ion	Ratio	Lower	Upper
119	100		
91	67.9	33.8	101.3
134	24.5	12.5	37.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

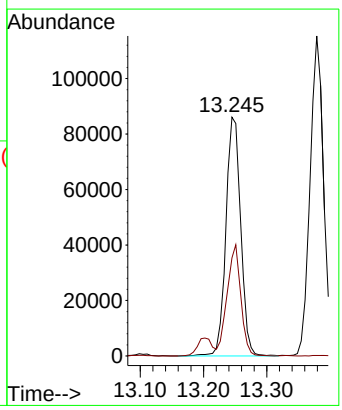
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

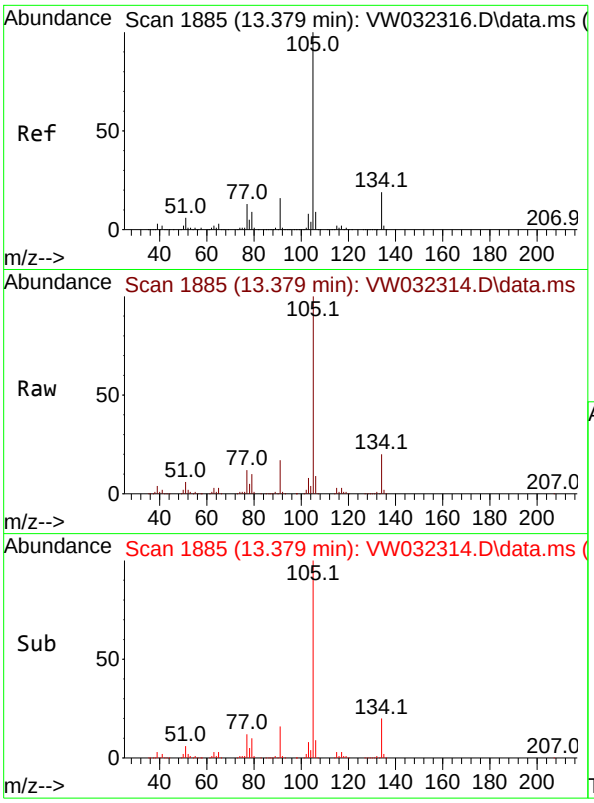


#84
1,2,4-Trimethylbenzene
Concen: 9.580 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:105 Resp: 139474

Ion	Ratio	Lower	Upper
105	100		
120	43.1	22.1	66.3





#85
sec-Butylbenzene
Concen: 9.533 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

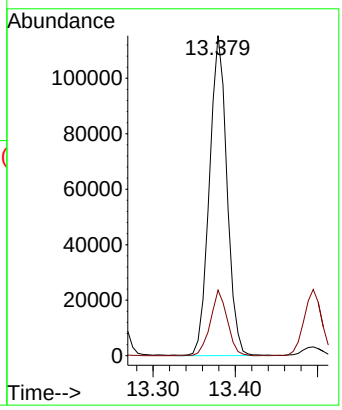
Tgt Ion:105 Resp: 17115

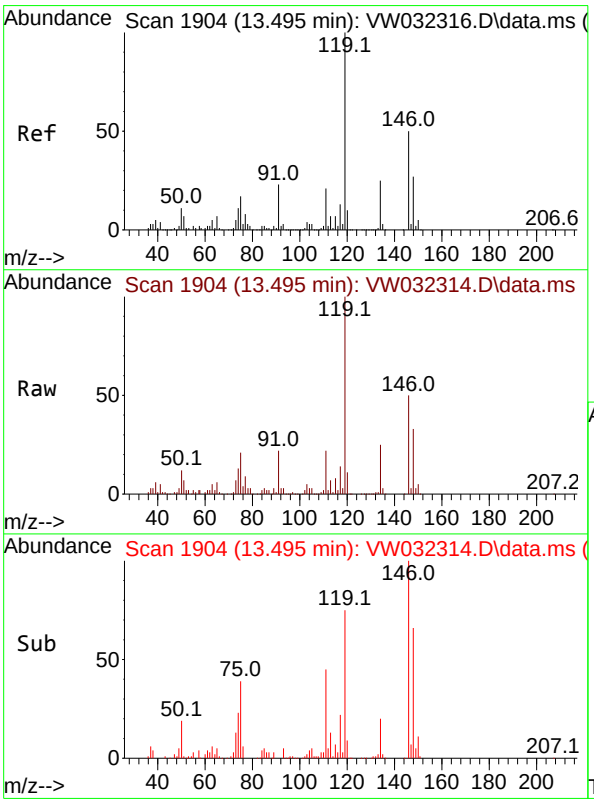
Ion	Ratio	Lower	Upper
105	100		
134	19.7	10.1	30.1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

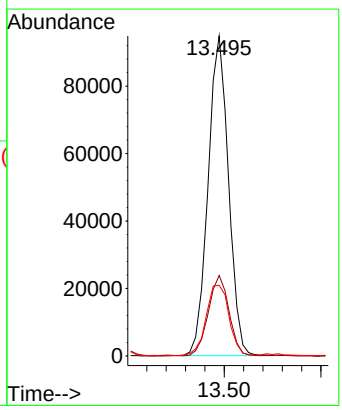


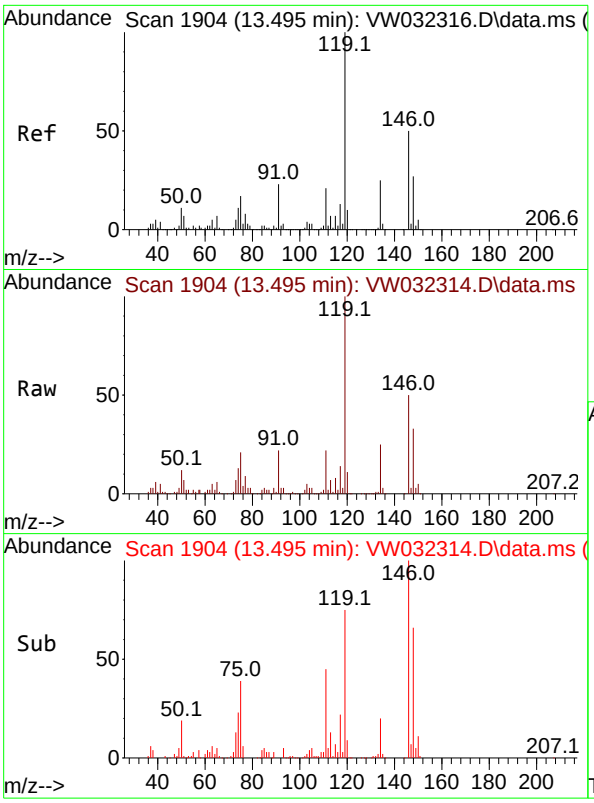


#86
p-Isopropyltoluene
Concen: 9.335 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:119 Resp: 139064

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.6	37.6
91	25.2	12.4	37.0

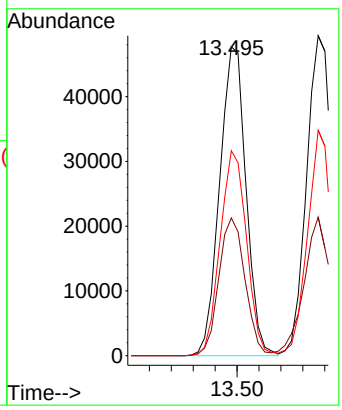




#87
1,3-Dichlorobenzene
Concen: 9.881 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:146 Resp: 7986

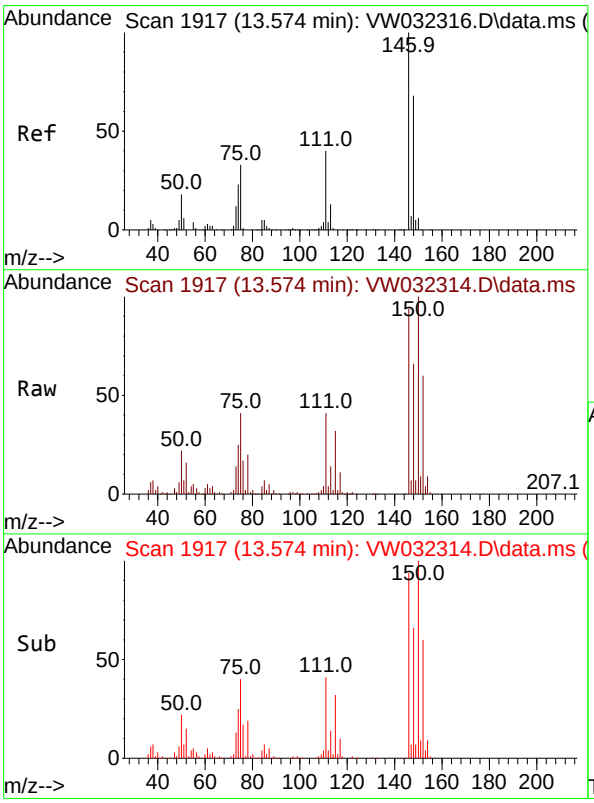
Ion	Ratio	Lower	Upper
146	100		
111	44.4	20.6	61.9
148	66.4	30.6	92.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

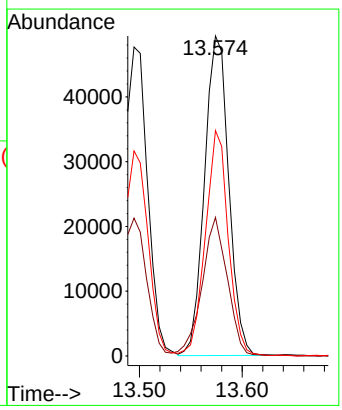
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

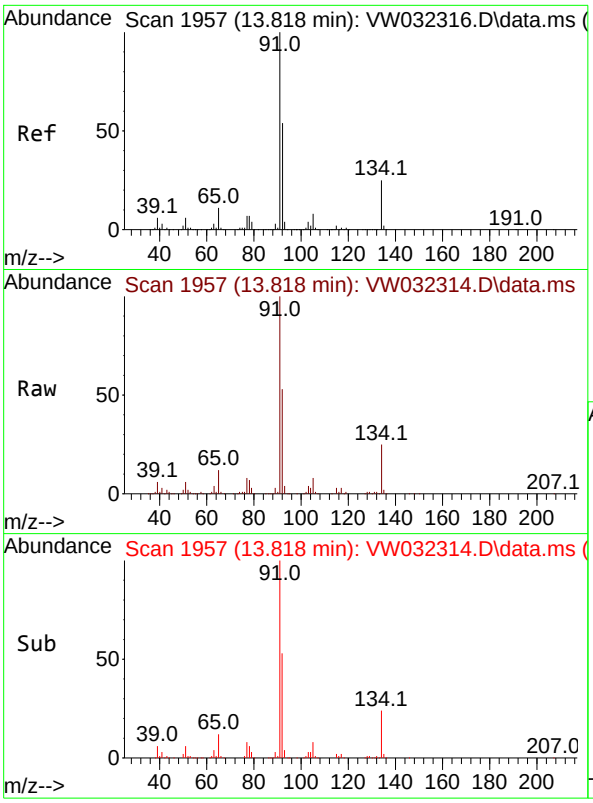


#88
1,4-Dichlorobenzene
Concen: 10.019 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:146 Resp: 80973

Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.3	63.7
148	67.0	33.4	100.1

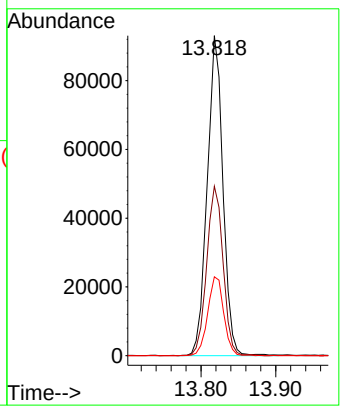




#89
n-Butylbenzene
Concen: 9.378 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 91 Resp: 13639

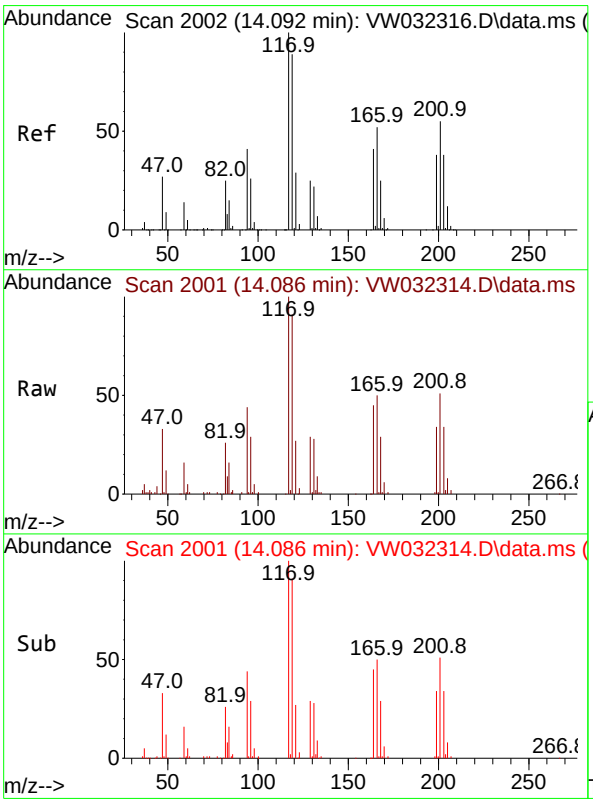
Ion	Ratio	Lower	Upper
91	100		
92	54.9	27.0	81.0
134	25.2	13.1	39.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

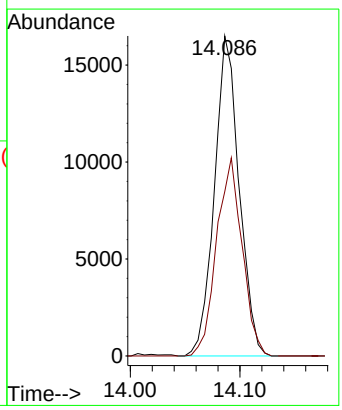
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

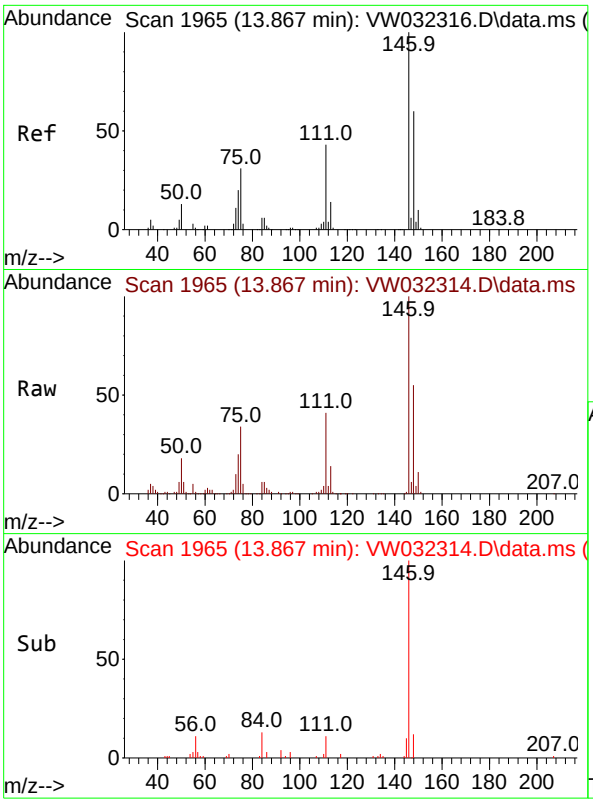


#90
Hexachloroethane
Concen: 9.699 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:117 Resp: 25898

Ion	Ratio	Lower	Upper
117	100		
201	64.0	32.8	98.4

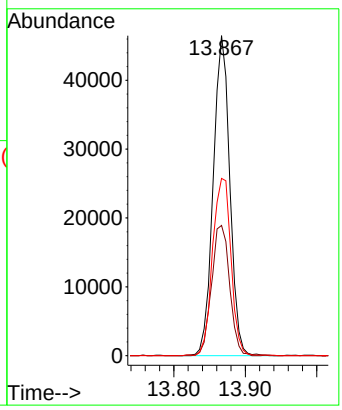




#91
1,2-Dichlorobenzene
Concen: 10.262 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:146 Resp: 7498

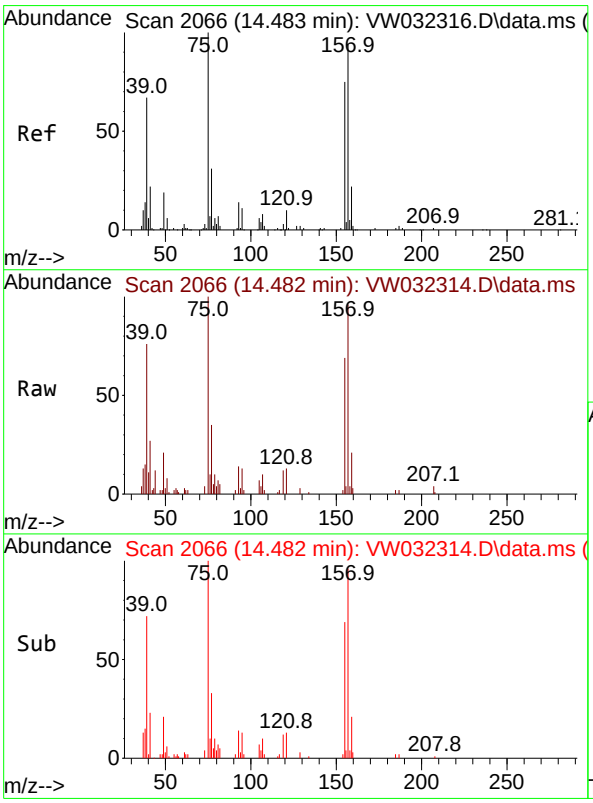
Ion	Ratio	Lower	Upper
146	100		
111	44.1	23.4	70.0
148	61.5	34.1	102.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

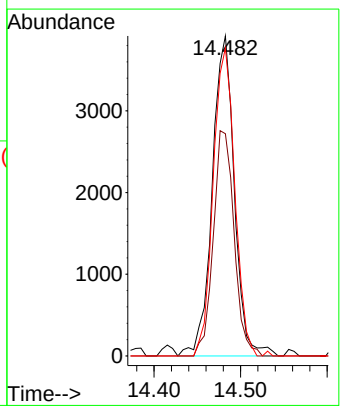
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

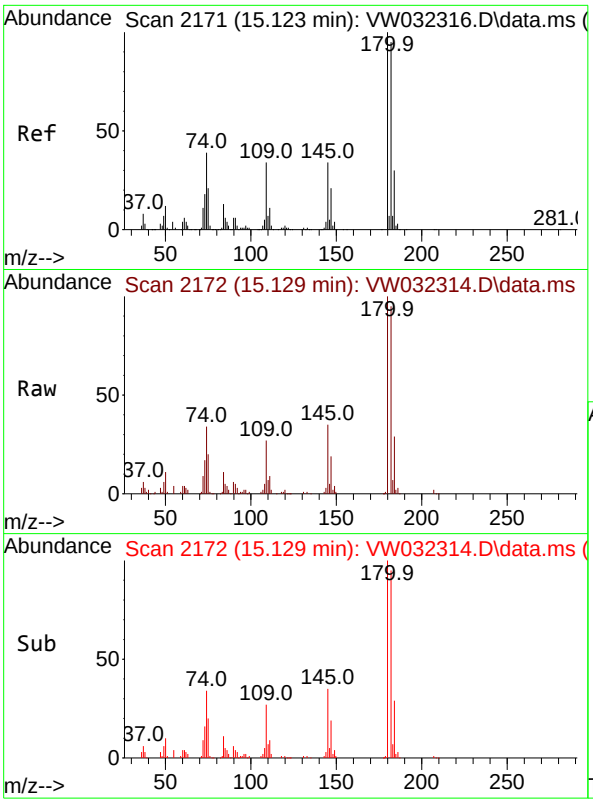


#92
1,2-Dibromo-3-Chloropropane
Concen: 9.662 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion: 75 Resp: 6955

Ion	Ratio	Lower	Upper
75	100		
155	66.2	40.8	122.5
157	93.6	51.8	155.4

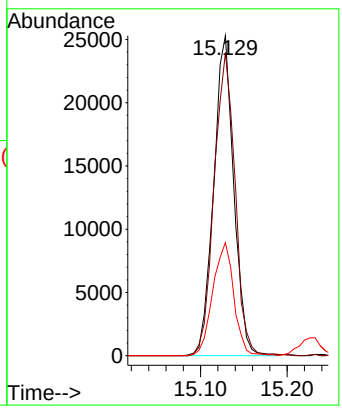




#93
1,2,4-Trichlorobenzene
Concen: 9.306 ug/l
RT: 15.129 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:180 Resp: 4077

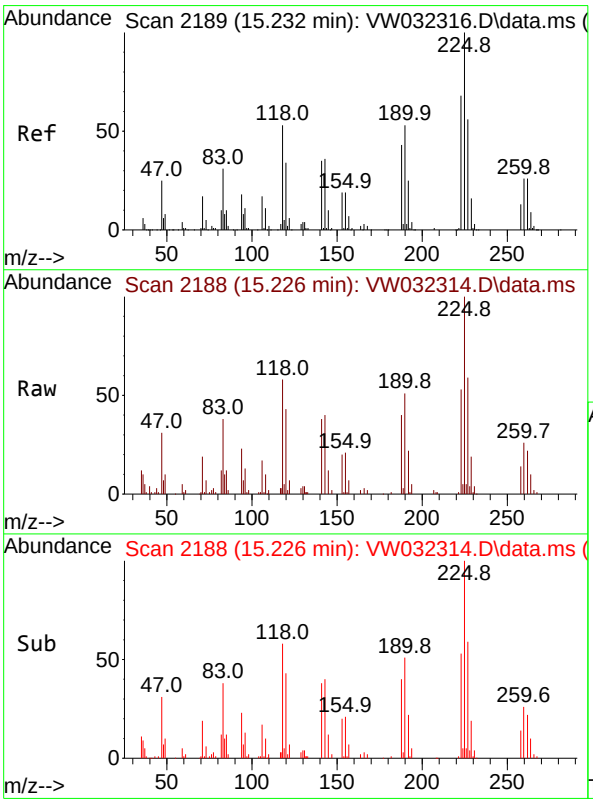
Ion	Ratio	Lower	Upper
180	100		
182	98.6	47.4	142.2
145	37.0	16.4	49.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

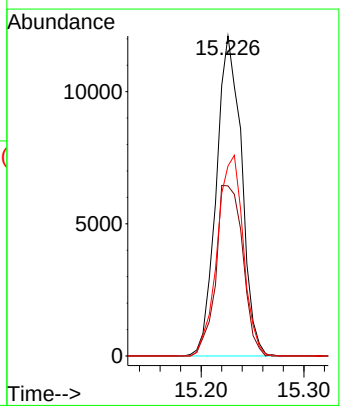
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

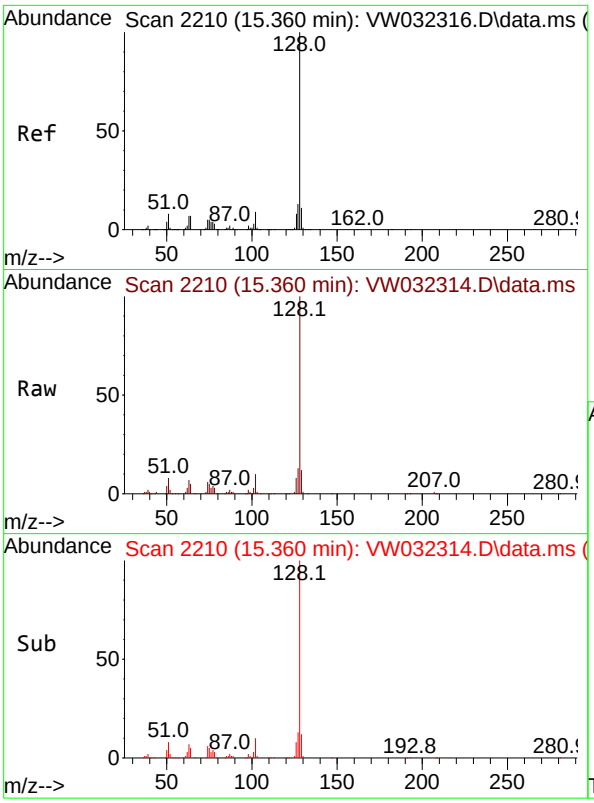


#94
Hexachlorobutadiene
Concen: 10.287 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:225 Resp: 20605

Ion	Ratio	Lower	Upper
225	100		
223	57.0	29.8	89.3
227	64.7	30.5	91.5

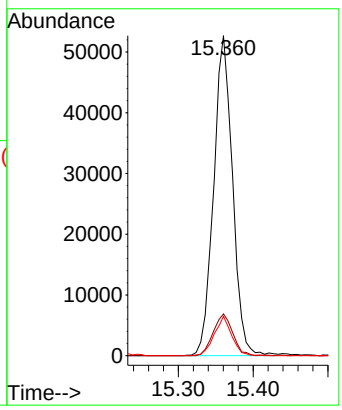




#95
Naphthalene
Concen: 8.829 ug/l
RT: 15.360 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:128 Resp: 9289

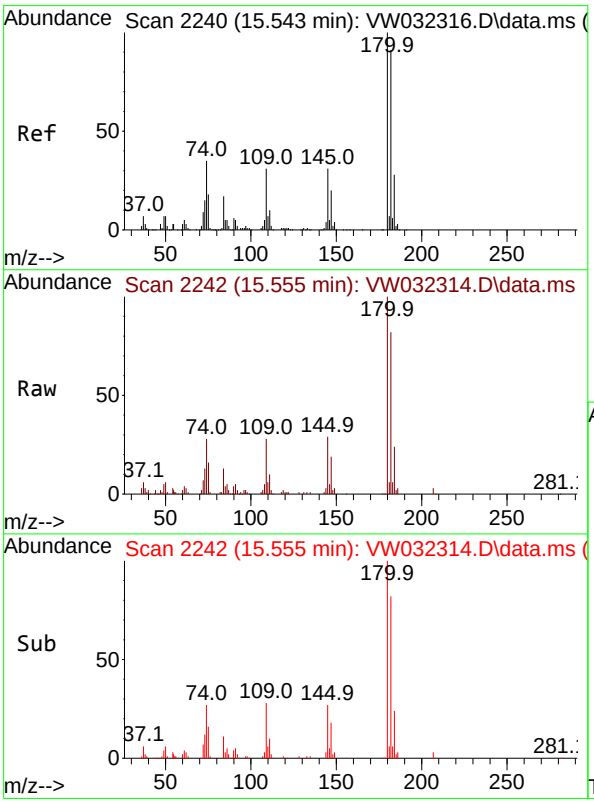
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	11.3	8.4	12.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

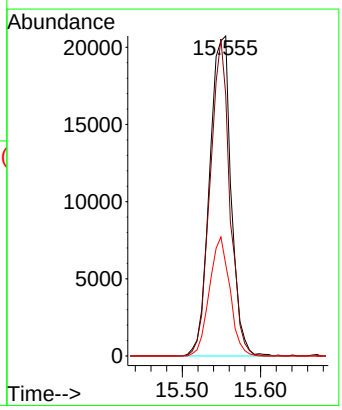
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 9.584 ug/l
RT: 15.555 min Scan# 2242
Delta R.T. 0.012 min
Lab File: VW032314.D
Acq: 01 Oct 2025 13:34

Tgt Ion:180 Resp: 39577

Ion	Ratio	Lower	Upper
180	100		
182	90.2	47.7	143.1
145	35.2	17.2	51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032315.D
Acq On : 01 Oct 2025 14:15
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:14:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	281404	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	536489	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	481502	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.555	152	241841	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.312	65	86104	20.978	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	41.960%#		
35) Dibromofluoromethane	7.898	113	70270	20.225	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	40.460%#		
50) Toluene-d8	10.324	98	250144	19.507	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	39.020%#		
62) 4-Bromofluorobenzene	12.617	95	93567	19.305	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	38.620%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.045	85	38800	21.972	ug/l	95
3) Chloromethane	2.253	50	58031	21.298	ug/l	99
4) Vinyl Chloride	2.405	62	68214	20.970	ug/l	97
5) Bromomethane	2.813	94	48996	20.496	ug/l	99
6) Chloroethane	2.960	64	44339	20.645	ug/l	99
7) Trichlorofluoromethane	3.295	101	48412	19.877	ug/l	93
8) Diethyl Ether	3.716	74	43506	20.614	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.094	101	59004	20.198	ug/l	95
10) Methyl Iodide	4.301	142	88957	21.342	ug/l	97
11) Tert butyl alcohol	5.215	59	34233	110.188	ug/l	96
12) 1,1-Dichloroethene	4.075	96	67001	21.126	ug/l	97
13) Acrolein	3.923	56	57603	114.243	ug/l	96
14) Allyl chloride	4.697	41	107824	20.129	ug/l	91
15) Acrylonitrile	5.392	53	112746	102.687	ug/l	99
16) Acetone	4.155	43	117625	103.498	ug/l	94
17) Carbon Disulfide	4.417	76	177979	20.568	ug/l	99
18) Methyl Acetate	4.703	43	68880	21.157	ug/l	95
19) Methyl tert-butyl Ether	5.459	73	129438	20.722	ug/l	92
20) Methylene Chloride	4.947	84	91257	21.174	ug/l	90
21) trans-1,2-Dichloroethene	5.453	96	71565	20.381	ug/l	98
22) Diisopropyl ether	6.337	45	234704	21.068	ug/l	94
23) Vinyl Acetate	6.276	43	773956	104.011	ug/l	98
24) 1,1-Dichloroethane	6.234	63	140018	20.687	ug/l	98
25) 2-Butanone	7.191	43	160713	103.830	ug/l	98
26) 2,2-Dichloropropane	7.179	77	71502	20.653	ug/l	98
27) cis-1,2-Dichloroethene	7.185	96	86196	20.434	ug/l	93
28) Bromochloromethane	7.526	49	65600	20.601	ug/l	85
29) Tetrahydrofuran	7.550	42	101422	104.194	ug/l	94
30) Chloroform	7.691	83	143028	20.837	ug/l	99
31) Cyclohexane	7.965	56	117320	20.304	ug/l	95
32) 1,1,1-Trichloroethane	7.886	97	100837	20.731	ug/l	99
36) 1,1-Dichloropropene	8.093	75	97586	19.902	ug/l	97
37) Ethyl Acetate	7.276	43	64814	19.859	ug/l	99
38) Carbon Tetrachloride	8.081	117	91643	19.861	ug/l	100
39) Methylcyclohexane	9.343	83	113500	19.190	ug/l	96
40) Benzene	8.331	78	309105	20.112	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032315.D
Acq On : 01 Oct 2025 14:15
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 02 21:14:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	37010	21.042	ug/l		90
42) 1,2-Dichloroethane	8.410	62	101383	20.160	ug/l		100
43) Isopropyl Acetate	8.434	43	115725	19.988	ug/l		99
44) Trichloroethene	9.099	130	70719	19.651	ug/l		98
45) 1,2-Dichloropropane	9.373	63	77815	20.284	ug/l		98
46) Dibromomethane	9.459	93	47632	20.192	ug/l		95
47) Bromodichloromethane	9.654	83	107295	19.886	ug/l		97
48) Methyl methacrylate	9.440	41	55063	19.561	ug/l		95
49) 1,4-Dioxane	9.465	88	13352	414.108	ug/l	#	85
51) 4-Methyl-2-Pentanone	10.208	43	341386	101.802	ug/l		98
52) Toluene	10.391	92	192396	20.102	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	100559	19.211	ug/l		97
54) cis-1,3-Dichloropropene	10.074	75	117968	19.565	ug/l		96
55) 1,1,2-Trichloroethane	10.788	97	63272	20.068	ug/l		98
56) Ethyl methacrylate	10.647	69	85643	19.407	ug/l		94
57) 1,3-Dichloropropane	10.934	76	112943	20.283	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	219091	93.287	ug/l		96
59) 2-Hexanone	10.971	43	242814	102.664	ug/l		97
60) Dibromochloromethane	11.129	129	71782	20.051	ug/l		100
61) 1,2-Dibromoethane	11.233	107	61899	20.135	ug/l		98
64) Tetrachloroethene	10.867	164	57503	19.958	ug/l		97
65) Chlorobenzene	11.653	112	213655	20.167	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.733	131	66918	20.280	ug/l		98
67) Ethyl Benzene	11.727	91	355003	20.103	ug/l		97
68) m/p-Xylenes	11.836	106	275521	40.461	ug/l		96
69) o-Xylene	12.165	106	125849	19.762	ug/l		95
70) Styrene	12.178	104	230999	20.776	ug/l		97
71) Bromoform	12.348	173	37059	19.593	ug/l	#	97
73) Isopropylbenzene	12.464	105	325413	19.668	ug/l		99
74) N-amyl acetate	12.269	43	104472	19.793	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.708	83	82334	20.041	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	61898m	19.396	ug/l		
77) Bromobenzene	12.745	156	78072	19.575	ug/l		88
78) n-propylbenzene	12.799	91	414530	20.057	ug/l		97
79) 2-Chlorotoluene	12.891	91	251889	19.933	ug/l		97
80) 1,3,5-Trimethylbenzene	12.940	105	276218	19.307	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.513	75	23628	18.808	ug/l		98
82) 4-Chlorotoluene	12.982	91	268736	20.002	ug/l		99
83) tert-Butylbenzene	13.202	119	231081	19.685	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	294630	20.253	ug/l		97
85) sec-Butylbenzene	13.379	105	344593	19.209	ug/l		99
86) p-Isopropyltoluene	13.494	119	298543	20.057	ug/l		99
87) 1,3-Dichlorobenzene	13.501	146	157169	19.461	ug/l		94
88) 1,4-Dichlorobenzene	13.574	146	164453	20.364	ug/l		96
89) n-Butylbenzene	13.818	91	284638	19.585	ug/l		98
90) Hexachloroethane	14.086	117	50102	18.779	ug/l		94
91) 1,2-Dichlorobenzene	13.866	146	150657	20.636	ug/l		91
92) 1,2-Dibromo-3-Chloropr...	14.482	75	14474	20.123	ug/l		84
93) 1,2,4-Trichlorobenzene	15.122	180	83681	19.115	ug/l		99
94) Hexachlorobutadiene	15.226	225	36708	18.340	ug/l		90
95) Naphthalene	15.360	128	209101	19.889	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	81141	19.664	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032315.D
Acq On : 01 Oct 2025 14:15
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:14:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

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

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

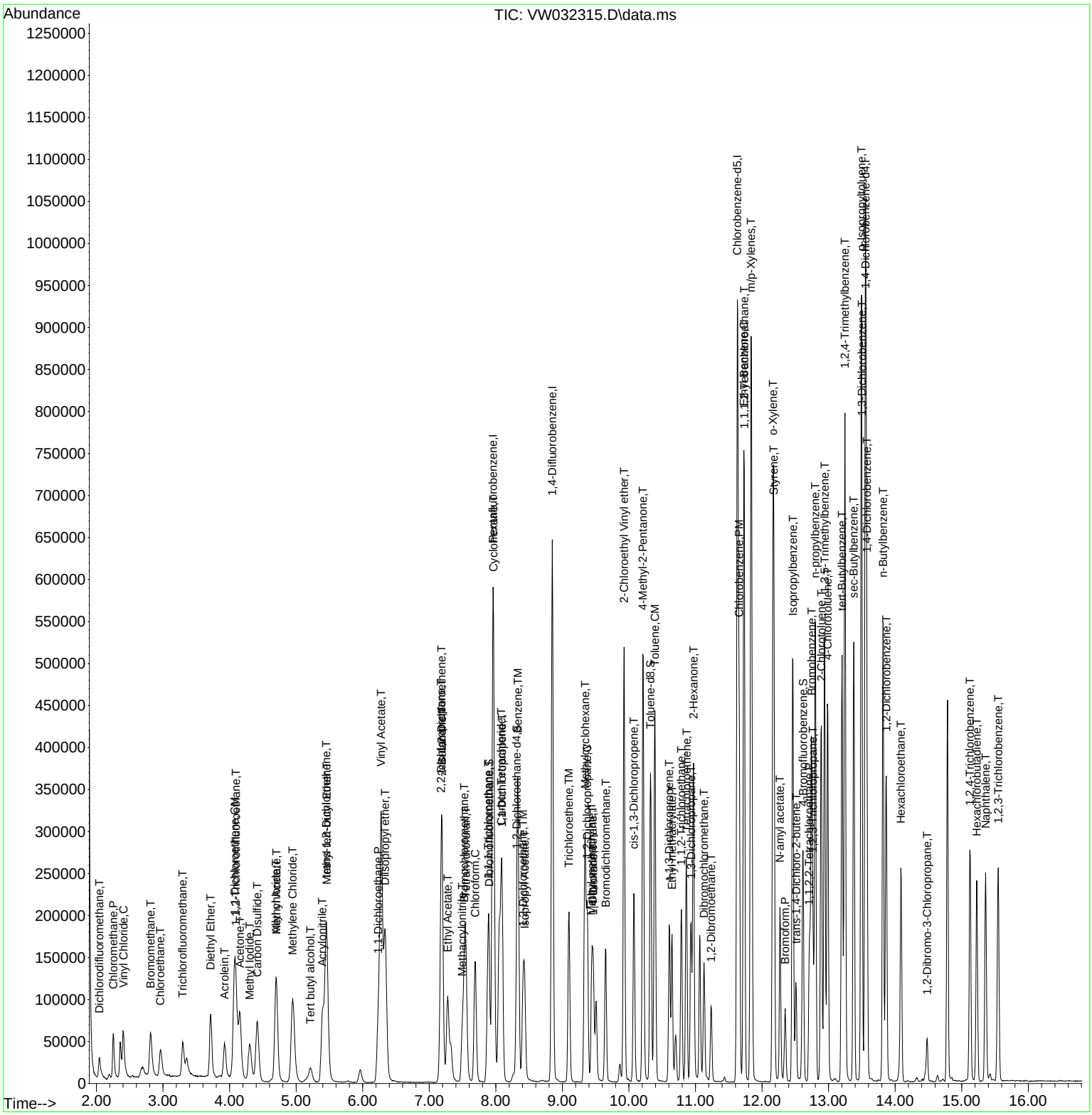
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032315.D
Acq On : 01 Oct 2025 14:15
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

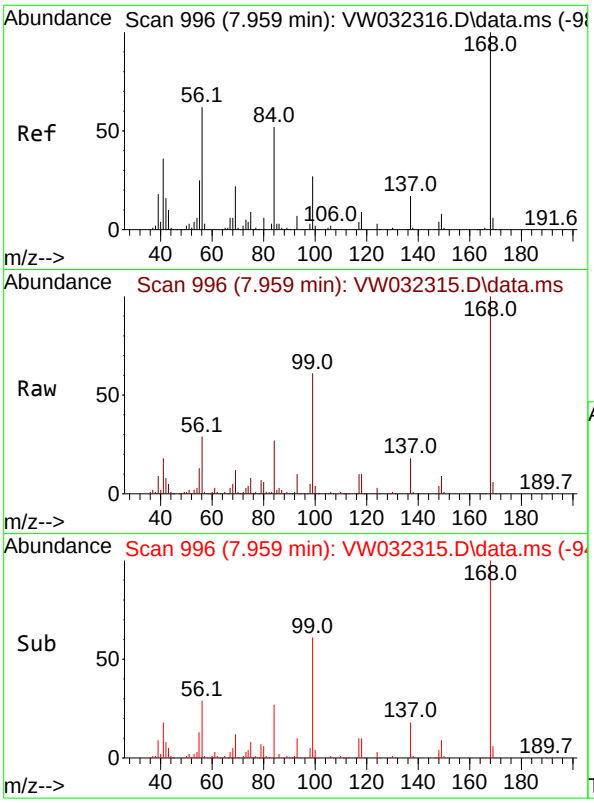
Quant Time: Oct 02 21:14:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

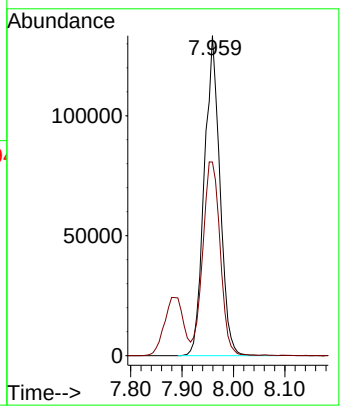




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:168 Resp: 28140

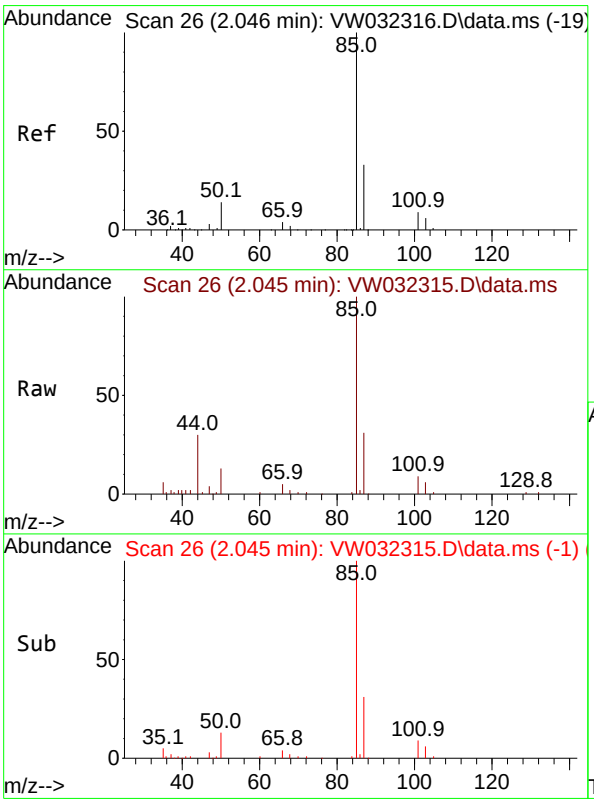
Ion	Ratio	Lower	Upper
168	100		
99	60.5	49.3	73.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

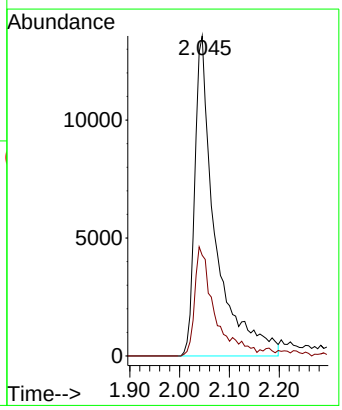
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

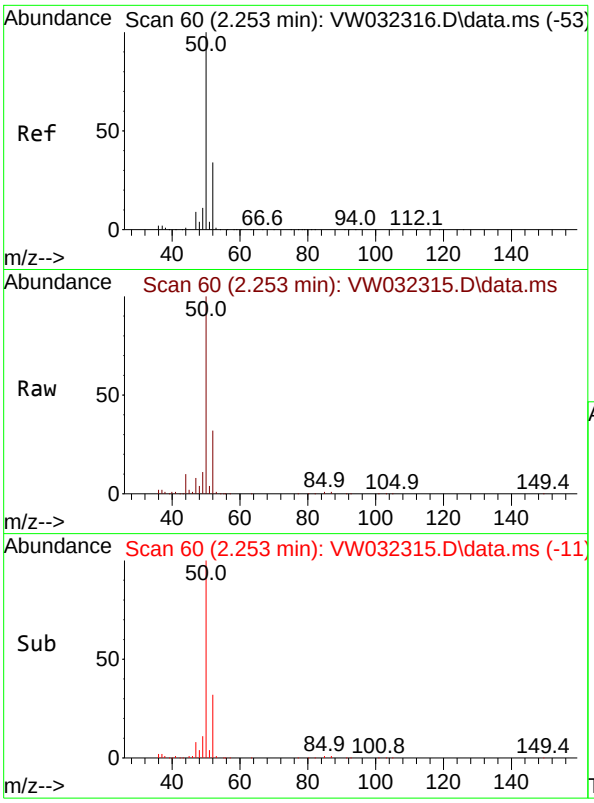


#2
Dichlorodifluoromethane
Concen: 21.972 ug/l
RT: 2.045 min Scan# 26
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 85 Resp: 38800

Ion	Ratio	Lower	Upper
85	100		
87	31.4	17.2	51.6

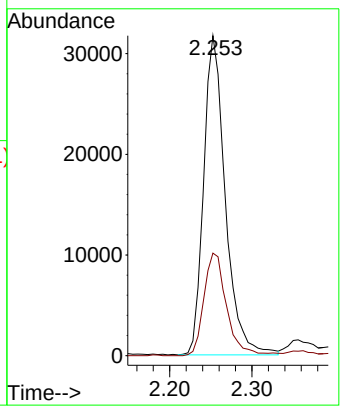




#3
Chloromethane
Concen: 21.298 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 50 Resp: 5803

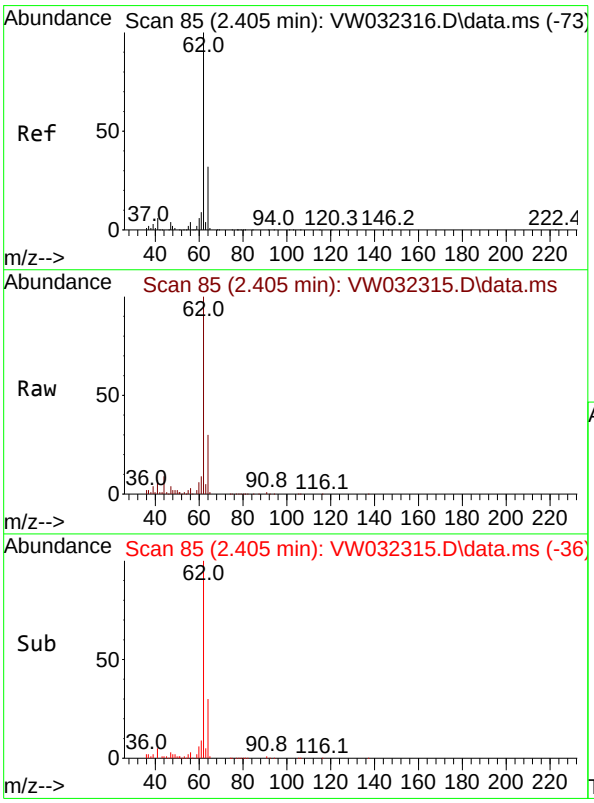
Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.1	39.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

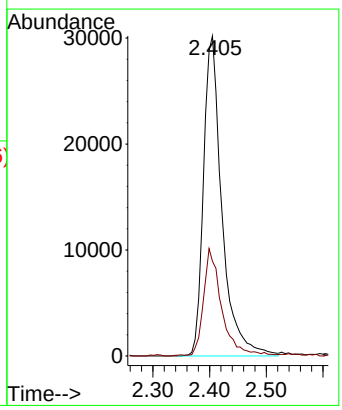
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

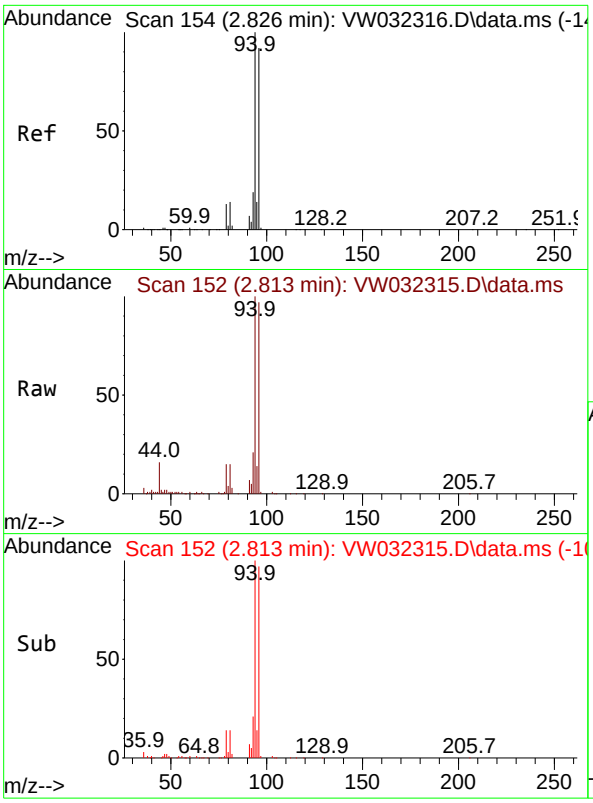


#4
Vinyl Chloride
Concen: 20.970 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 62 Resp: 68214

Ion	Ratio	Lower	Upper
62	100		
64	29.4	24.8	37.2

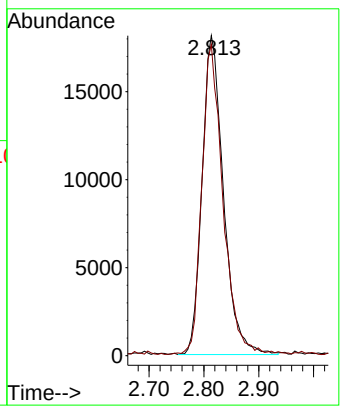




#5
Bromomethane
Concen: 20.496 ug/l
RT: 2.813 min Scan# 1
Delta R.T. -0.013 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 94 Resp: 4899

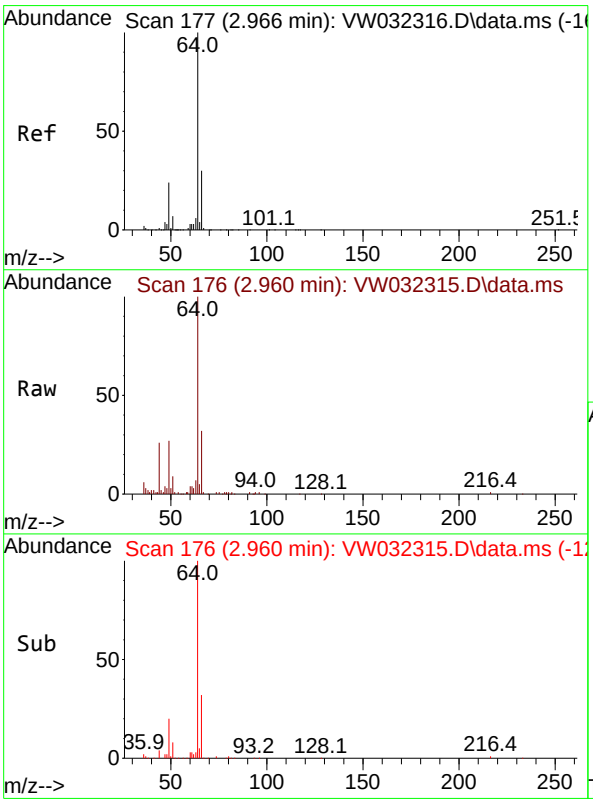
Ion	Ratio	Lower	Upper
94	100		
96	96.8	76.6	115.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

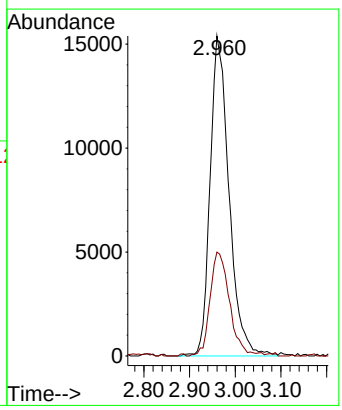
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

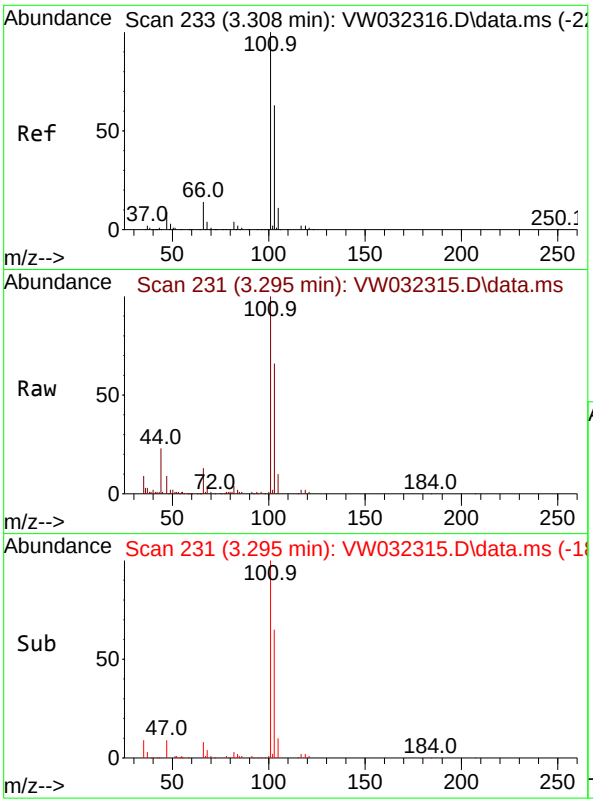


#6
Chloroethane
Concen: 20.645 ug/l
RT: 2.960 min Scan# 176
Delta R.T. -0.013 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 64 Resp: 44339

Ion	Ratio	Lower	Upper
64	100		
66	32.4	26.2	39.4

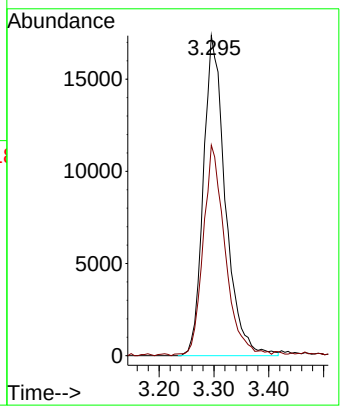




#7
Trichlorofluoromethane
Concen: 19.877 ug/l
RT: 3.295 min Scan# 2
Delta R.T. -0.013 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:101 Resp: 4841

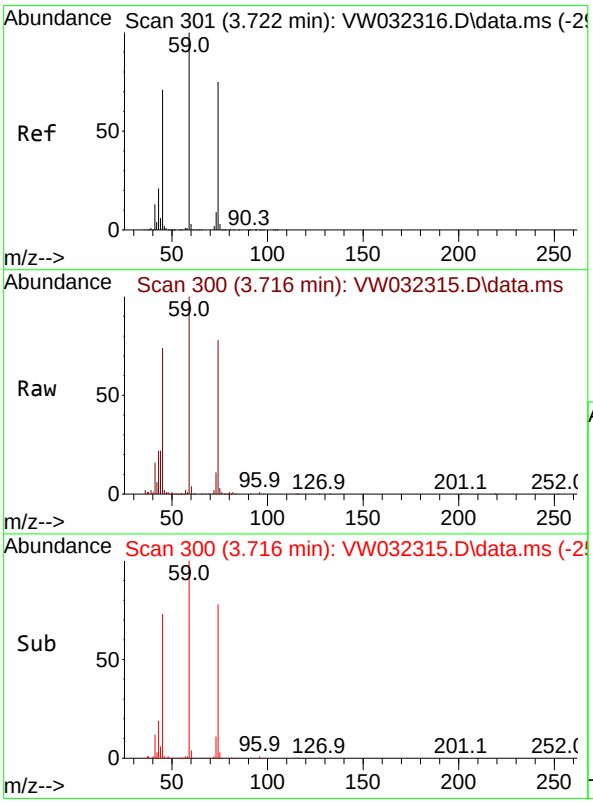
Ion	Ratio	Lower	Upper
101	100		
103	65.3	47.8	71.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

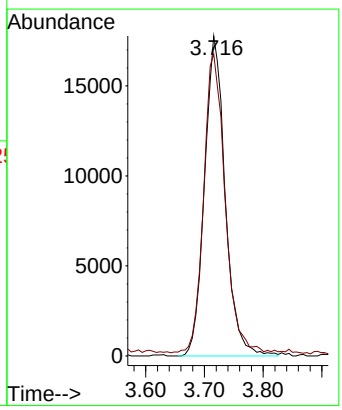
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

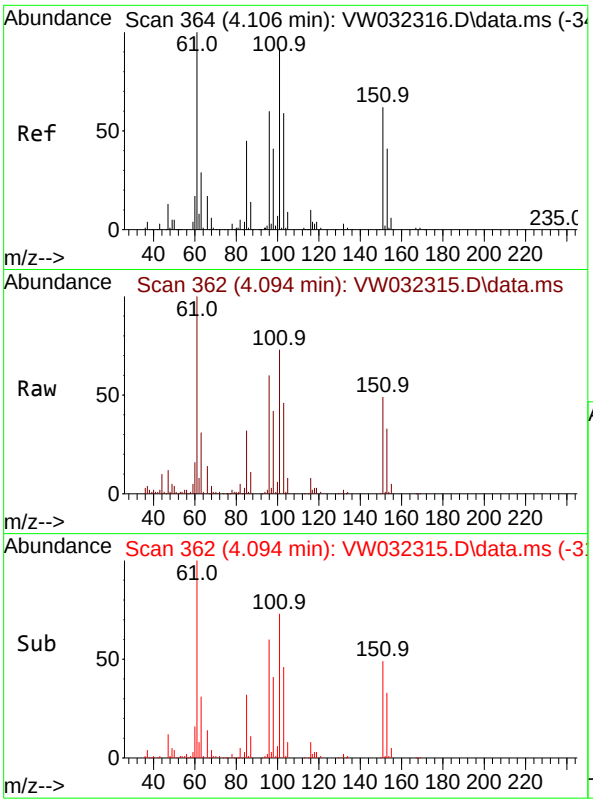


#8
Diethyl Ether
Concen: 20.614 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 74 Resp: 43506

Ion	Ratio	Lower	Upper
74	100		
45	96.4	43.1	129.4

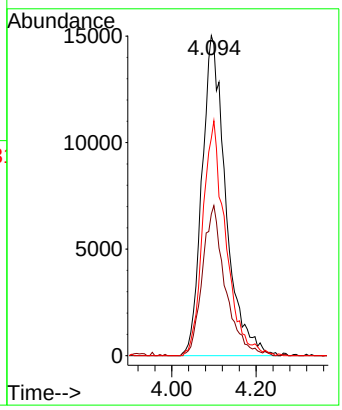




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.198 ug/l
RT: 4.094 min Scan# 3
Delta R.T. -0.013 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:101 Resp: 5900

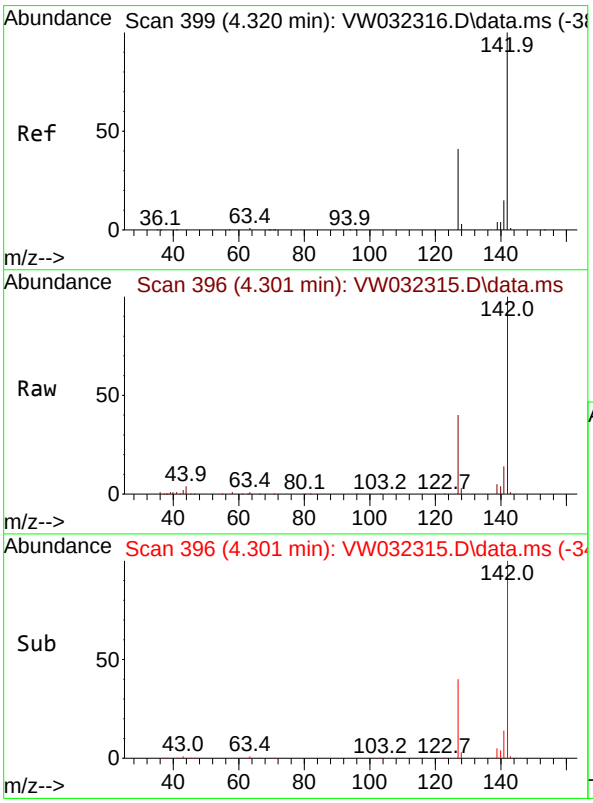
Ion	Ratio	Lower	Upper
101	100		
85	45.3	37.1	55.7
151	70.3	61.5	92.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

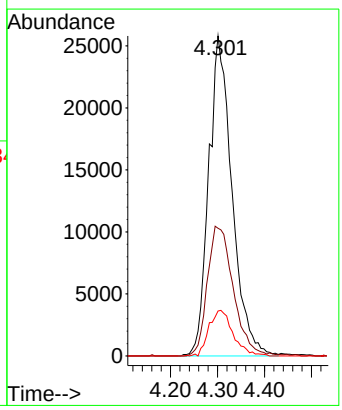
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

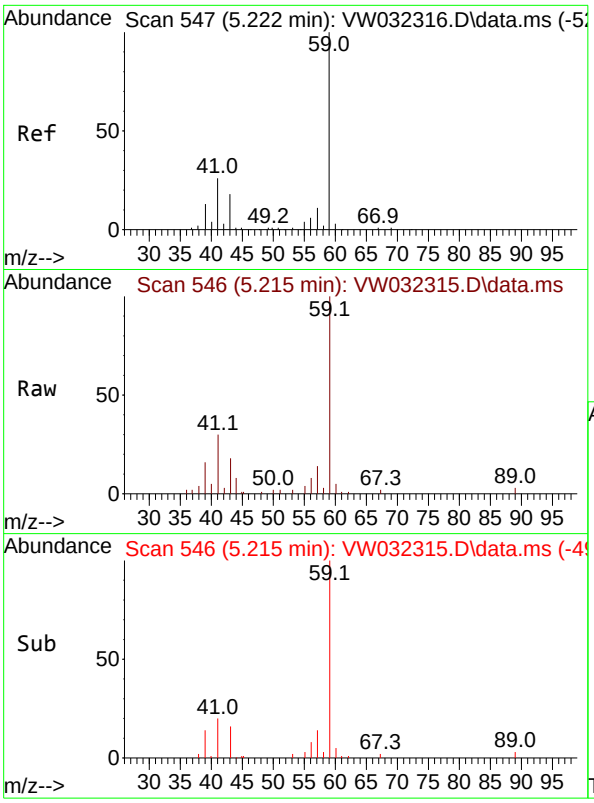


#10
Methyl Iodide
Concen: 21.342 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.013 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:142 Resp: 88957

Ion	Ratio	Lower	Upper
142	100		
127	45.2	38.2	57.2
141	14.8	12.2	18.2

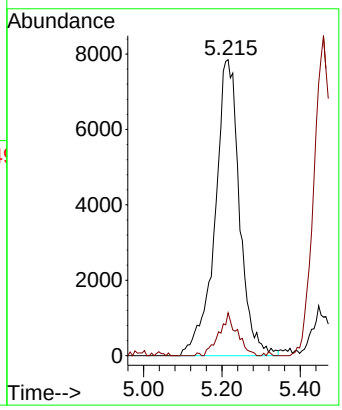




#11
Tert butyl alcohol
Concen: 110.188 ug/l
RT: 5.215 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 59 Resp: 3423

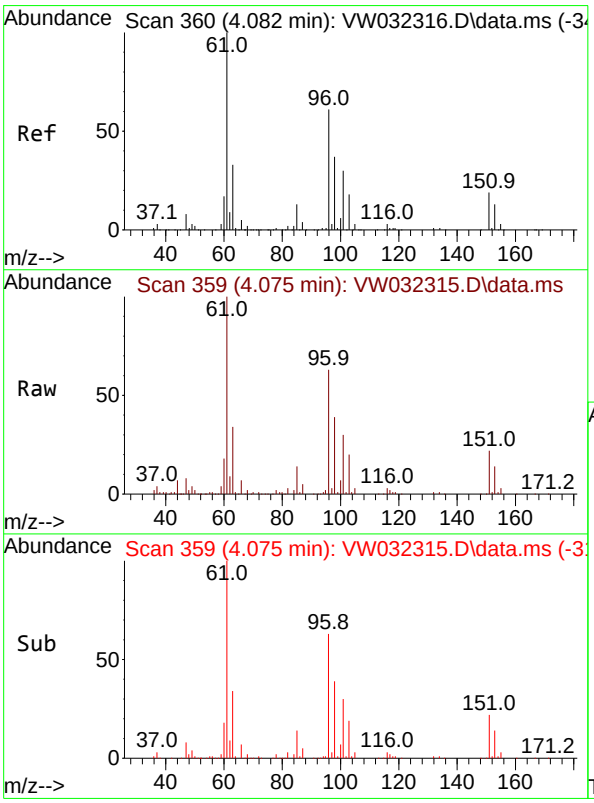
Ion	Ratio	Lower	Upper
59	100		
57	10.6	9.8	14.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

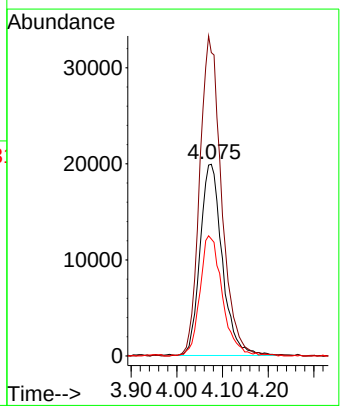
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

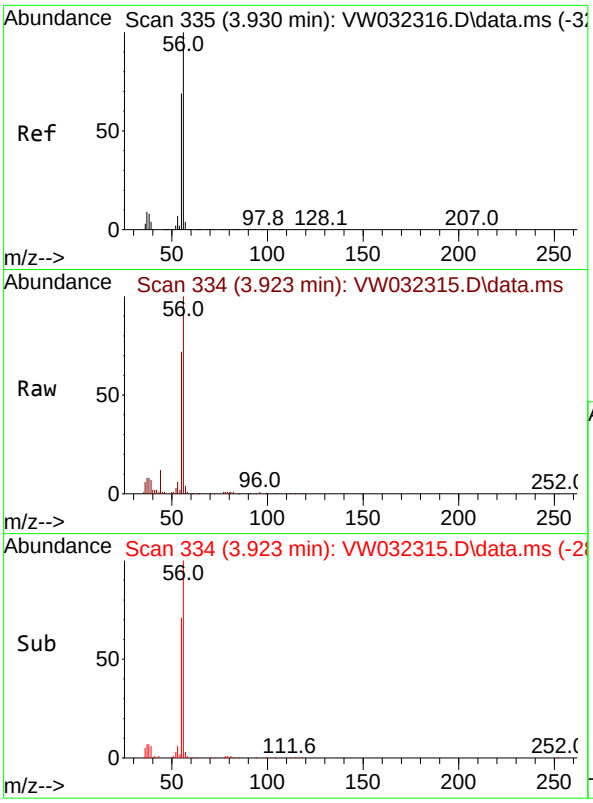


#12
1,1-Dichloroethene
Concen: 21.126 ug/l
RT: 4.075 min Scan# 359
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 96 Resp: 67001

Ion	Ratio	Lower	Upper
96	100		
61	158.2	123.0	184.4
98	61.2	48.5	72.7

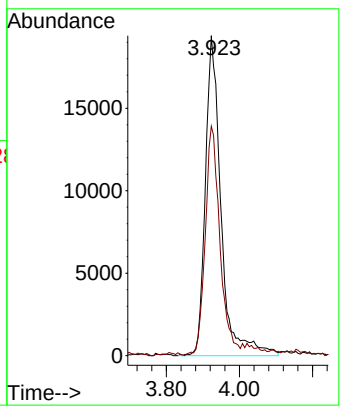




#13
Acrolein
Concen: 114.243 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 56 Resp: 5760

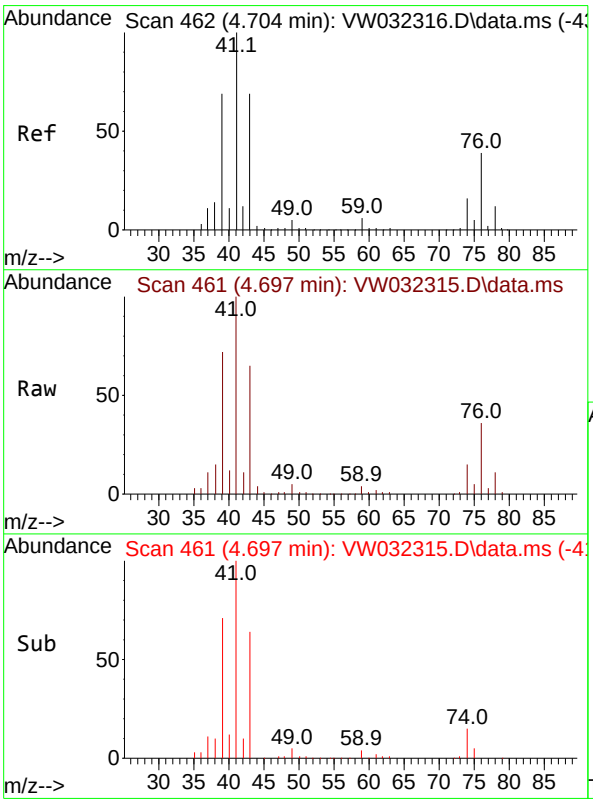
Ion	Ratio	Lower	Upper
56	100		
55	67.4	56.4	84.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

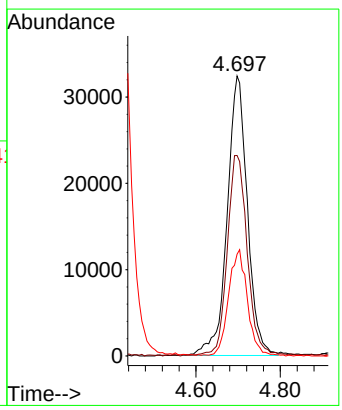
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

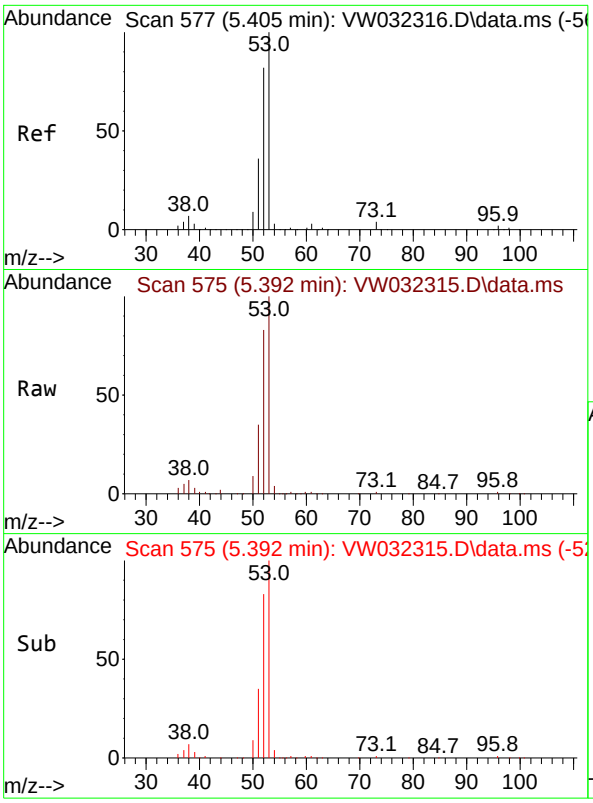


#14
Allyl chloride
Concen: 20.129 ug/l
RT: 4.697 min Scan# 461
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 41 Resp: 107824

Ion	Ratio	Lower	Upper
41	100		
39	71.4	64.1	96.1
76	35.7	31.4	47.2

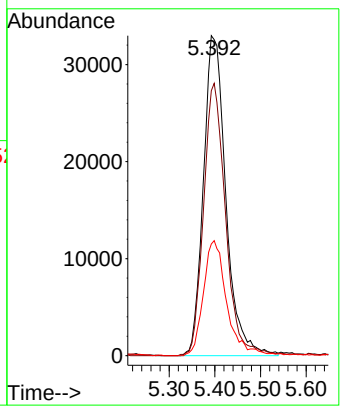




#15
Acrylonitrile
Concen: 102.687 ug/l
RT: 5.392 min Scan# 5
Delta R.T. -0.013 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 53 Resp: 11274

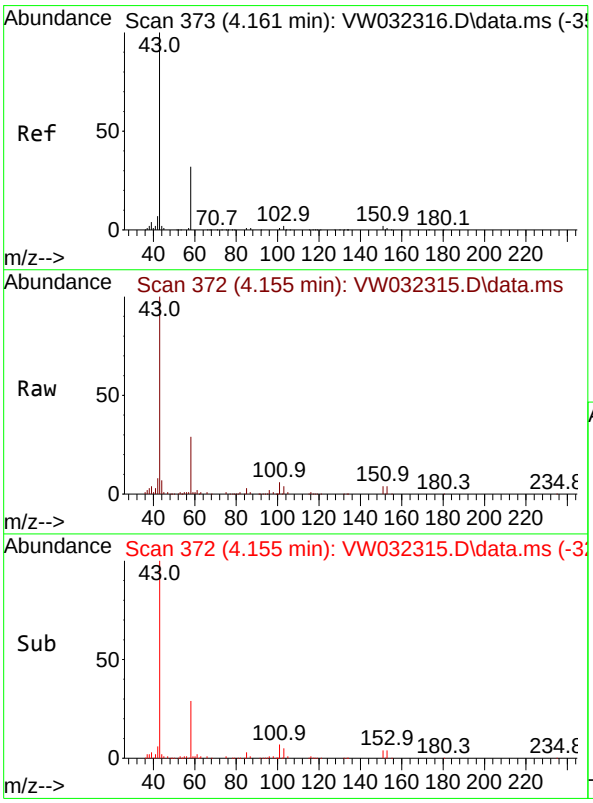
Ion	Ratio	Lower	Upper
53	100		
52	83.5	67.4	101.2
51	37.5	30.3	45.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

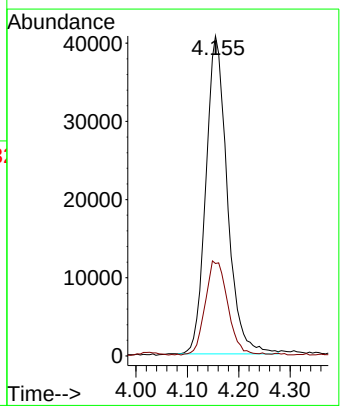
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

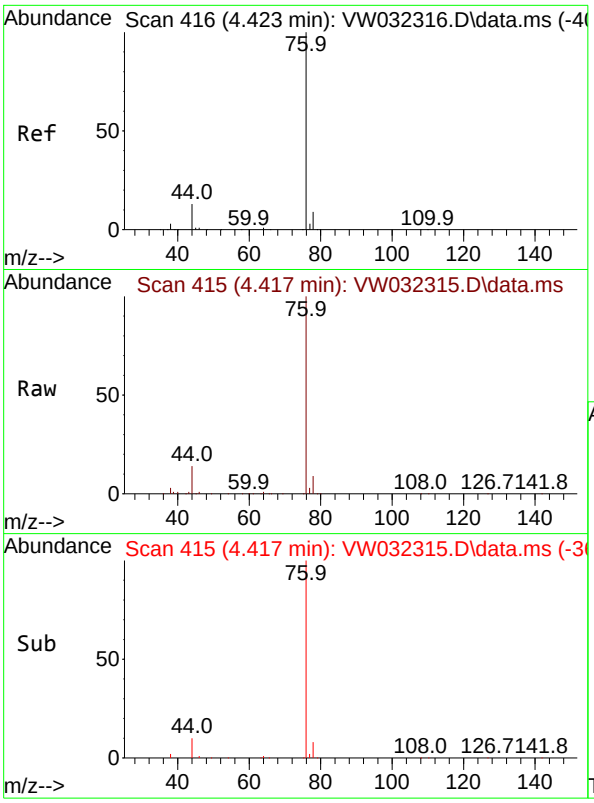


#16
Acetone
Concen: 103.498 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 43 Resp: 117625

Ion	Ratio	Lower	Upper
43	100		
58	28.5	25.3	37.9

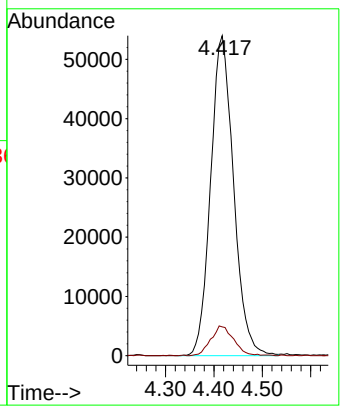




#17
Carbon Disulfide
Concen: 20.568 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 76 Resp: 17797

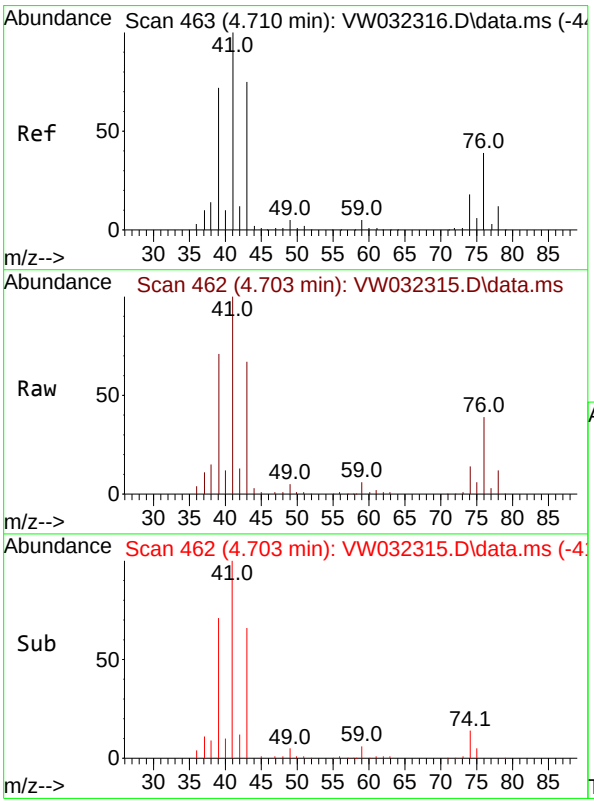
Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

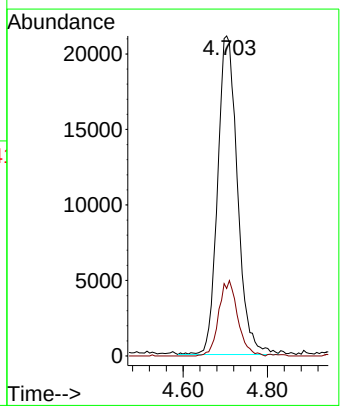
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

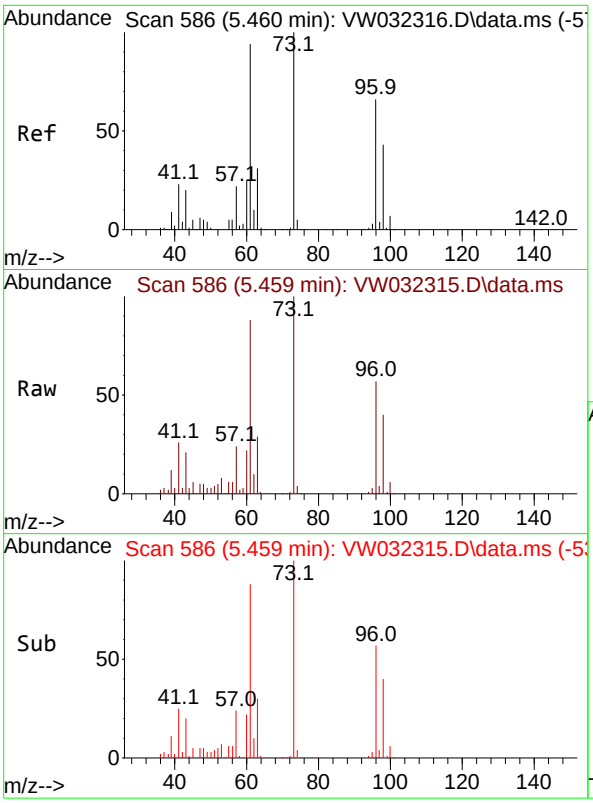


#18
Methyl Acetate
Concen: 21.157 ug/l
RT: 4.703 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 43 Resp: 68880

Ion	Ratio	Lower	Upper
43	100		
74	22.6	20.2	30.4

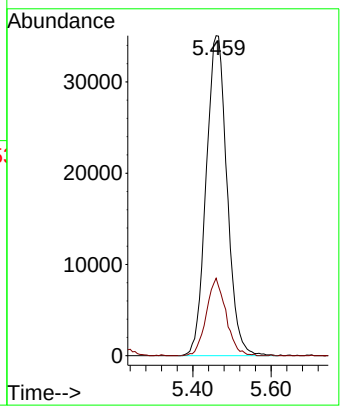




#19
Methyl tert-butyl Ether
Concen: 20.722 ug/l
RT: 5.459 min Scan# 5
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 73 Resp: 12943

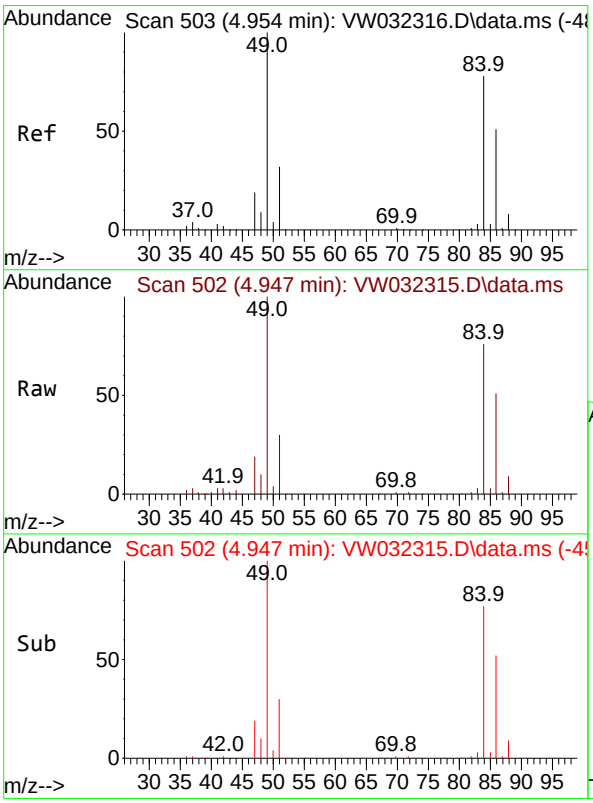
Ion	Ratio	Lower	Upper
73	100		
57	24.2	16.2	24.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

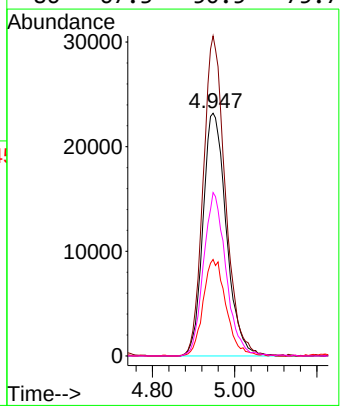
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

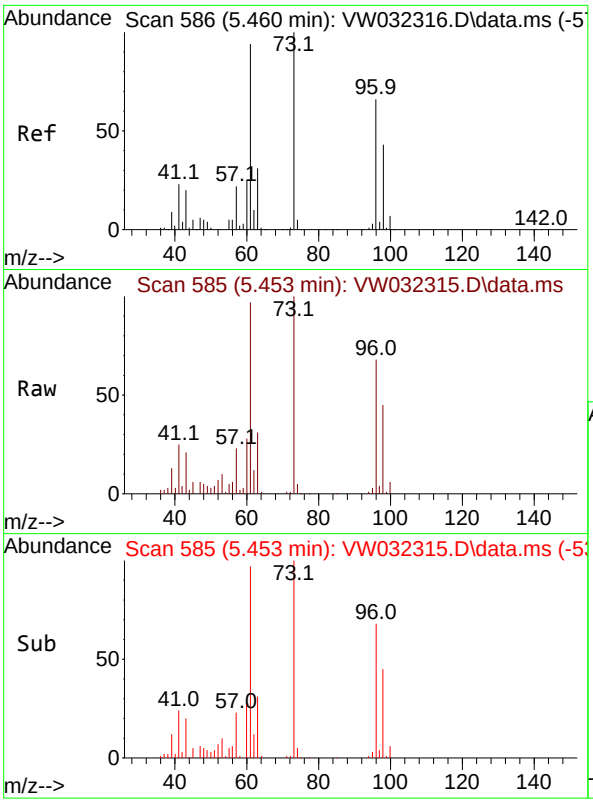


#20
Methylene Chloride
Concen: 21.174 ug/l
RT: 4.947 min Scan# 502
Delta R.T. -0.013 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 84 Resp: 91257

Ion	Ratio	Lower	Upper
84	100		
49	131.8	92.2	138.4
51	39.7	31.0	46.6
86	67.3	50.5	75.7

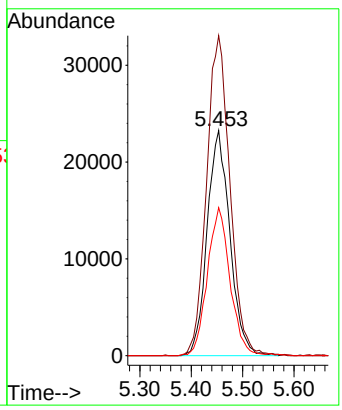




#21
trans-1,2-Dichloroethene
Concen: 20.381 ug/l
RT: 5.453 min Scan# 5
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 96 Resp: 7156

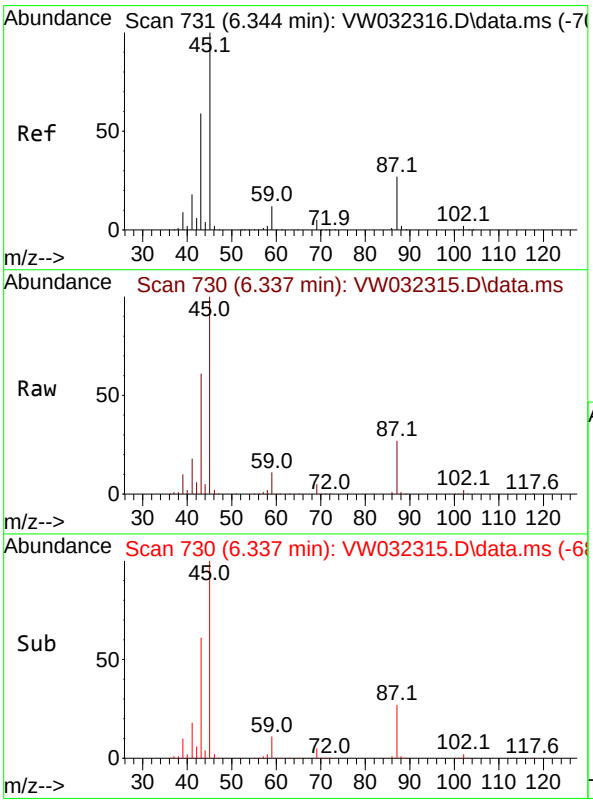
Ion	Ratio	Lower	Upper
96	100		
61	142.1	112.5	168.7
98	65.7	54.2	81.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

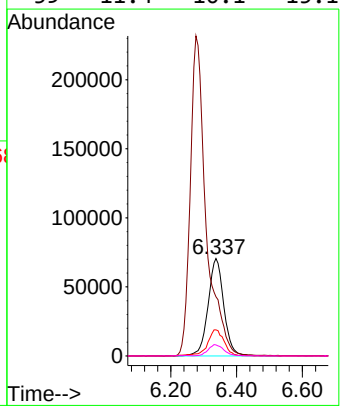
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

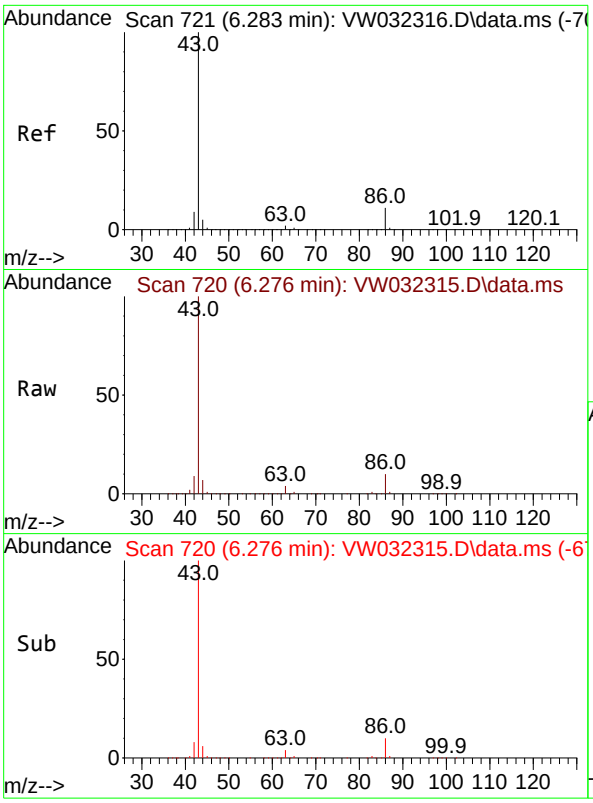


#22
Diisopropyl ether
Concen: 21.068 ug/l
RT: 6.337 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 45 Resp: 234704

Ion	Ratio	Lower	Upper
45	100		
43	60.2	51.4	77.2
87	26.7	25.9	38.9
59	11.4	10.1	15.1





#23
Vinyl Acetate
Concen: 104.011 ug/l
RT: 6.276 min Scan# 7
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

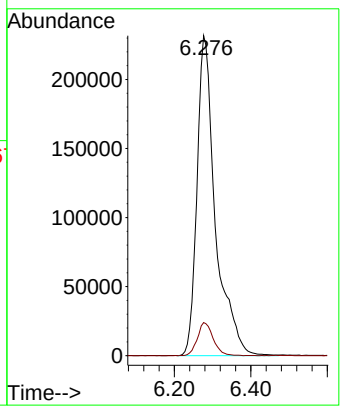
Tgt Ion: 43 Resp: 77395

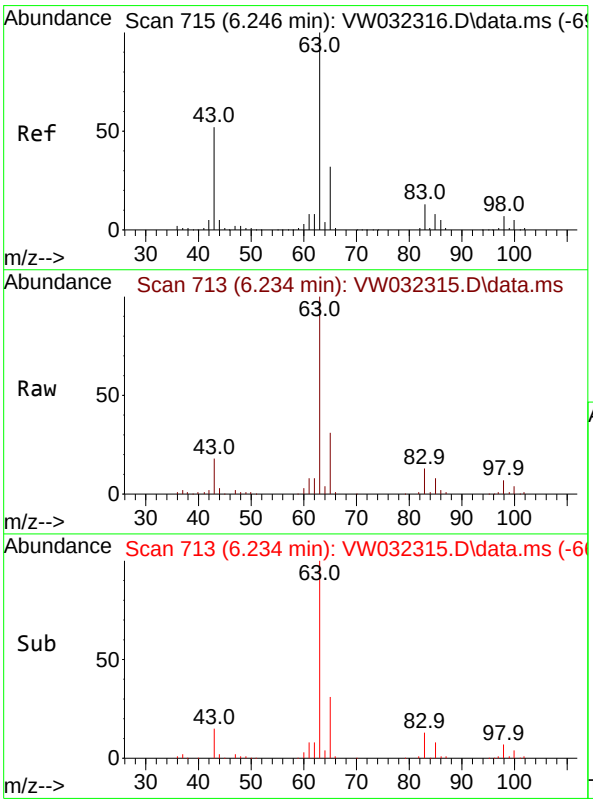
Ion	Ratio	Lower	Upper
43	100		
86	10.3	8.8	13.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

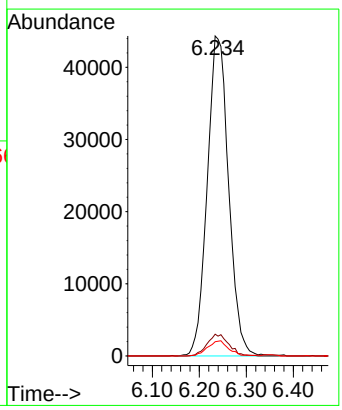


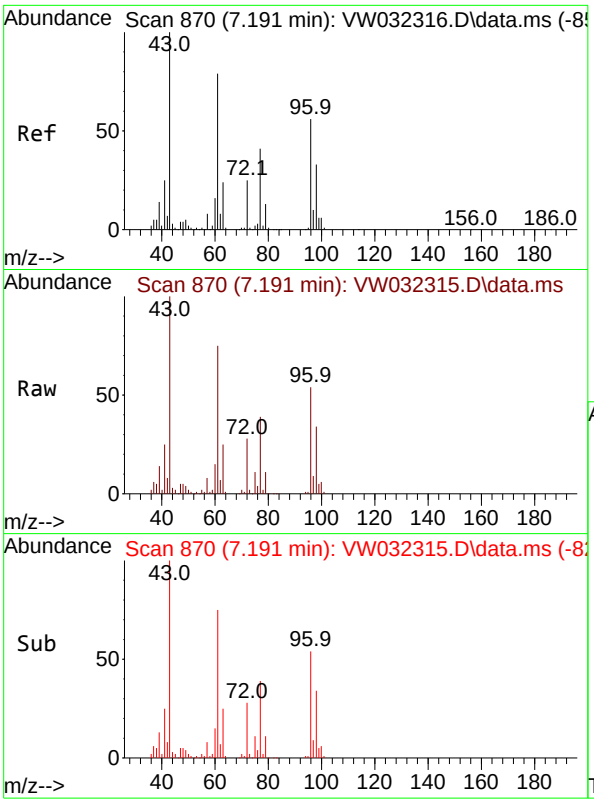


#24
1,1-Dichloroethane
Concen: 20.687 ug/l
RT: 6.234 min Scan# 713
Delta R.T. -0.013 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 63 Resp: 140018

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.8	11.2
100	4.4	2.5	7.5

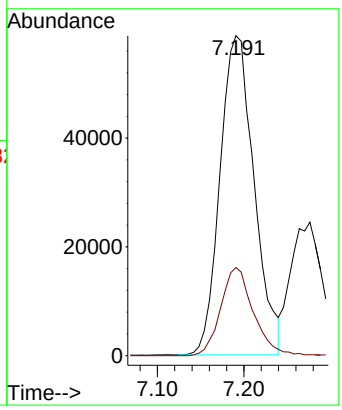




#25
2-Butanone
Concen: 103.830 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 43 Resp: 16071

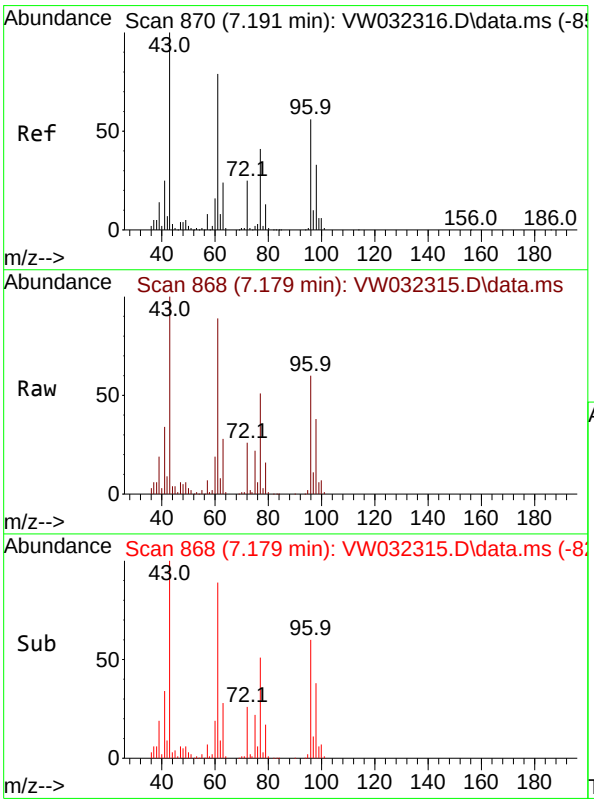
Ion	Ratio	Lower	Upper
43	100		
72	27.6	21.4	32.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

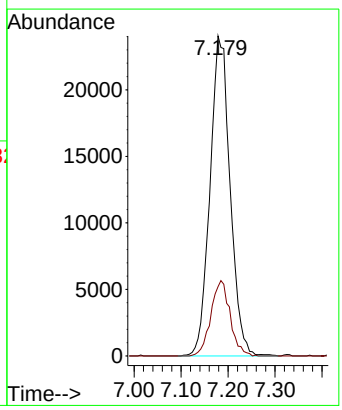
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

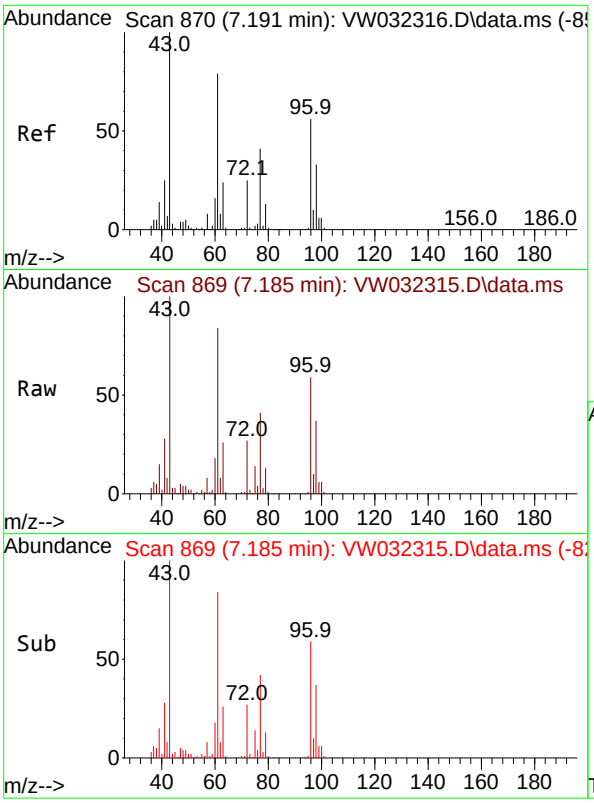


#26
2,2-Dichloropropane
Concen: 20.653 ug/l
RT: 7.179 min Scan# 868
Delta R.T. -0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 77 Resp: 71502

Ion	Ratio	Lower	Upper
77	100		
97	22.5	11.9	35.5

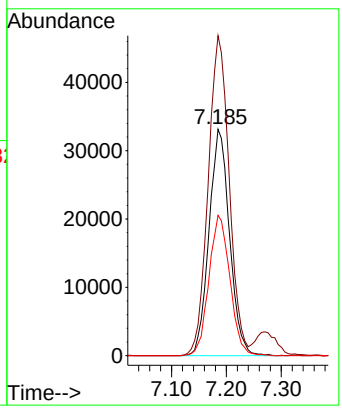




#27
cis-1,2-Dichloroethene
Concen: 20.434 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 96 Resp: 8619

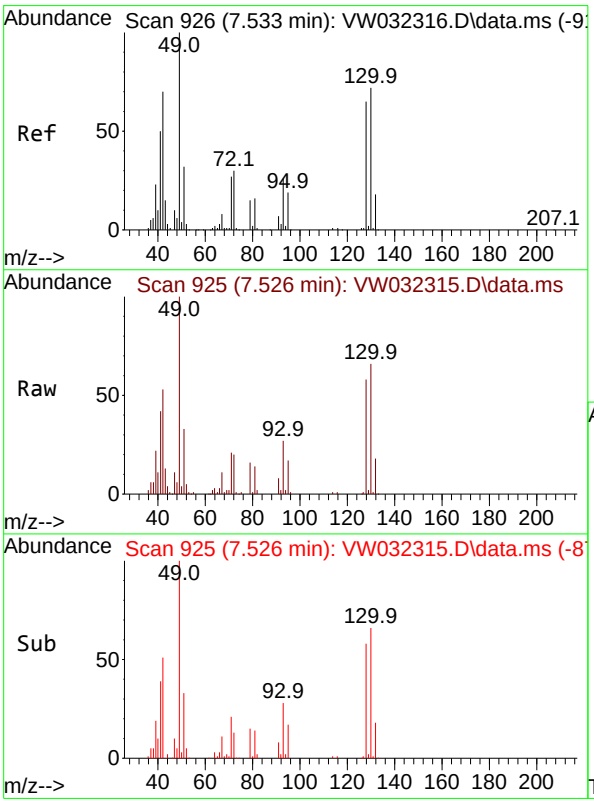
Ion	Ratio	Lower	Upper
96	100		
61	144.5	0.0	268.0
98	63.4	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

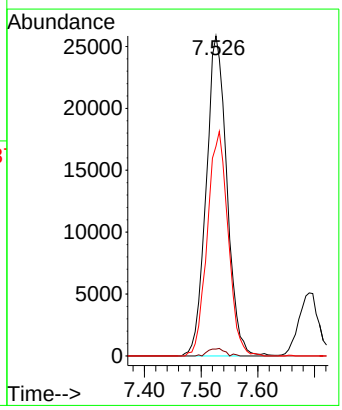
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

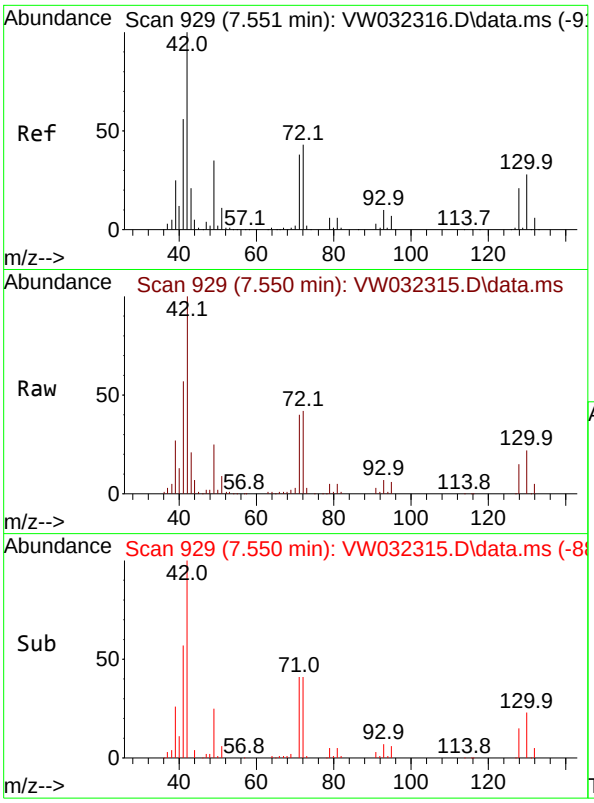


#28
Bromochloromethane
Concen: 20.601 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 49 Resp: 65600

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	70.3	67.5	101.3

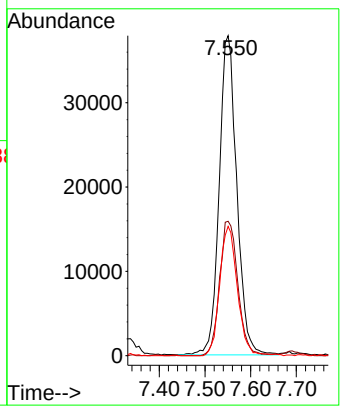




#29
Tetrahydrofuran
Concen: 104.194 ug/l
RT: 7.550 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 42 Resp: 10142

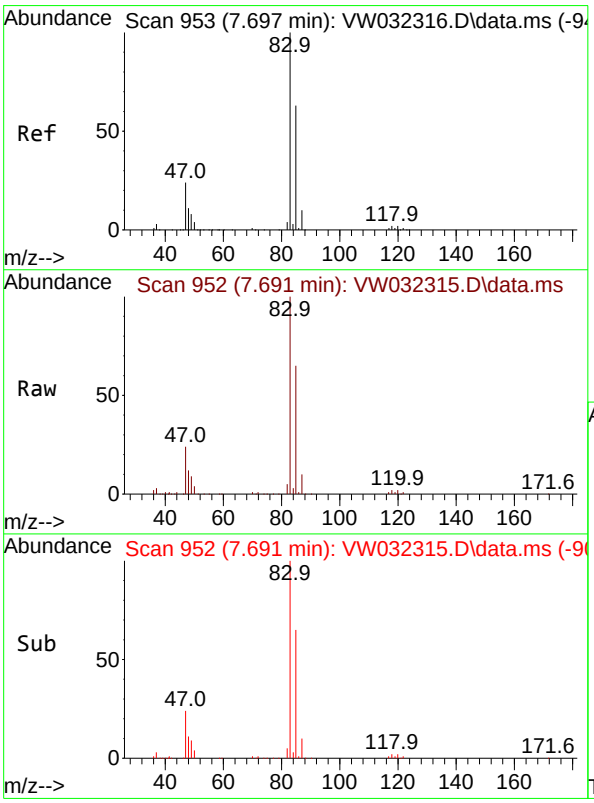
Ion	Ratio	Lower	Upper
42	100		
72	43.9	37.4	56.2
71	40.6	36.0	54.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

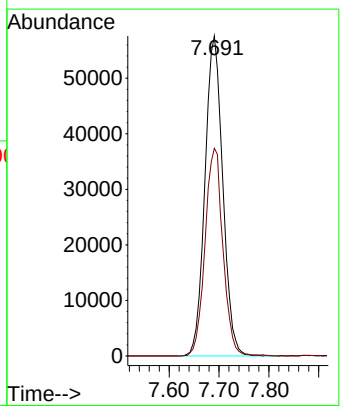
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

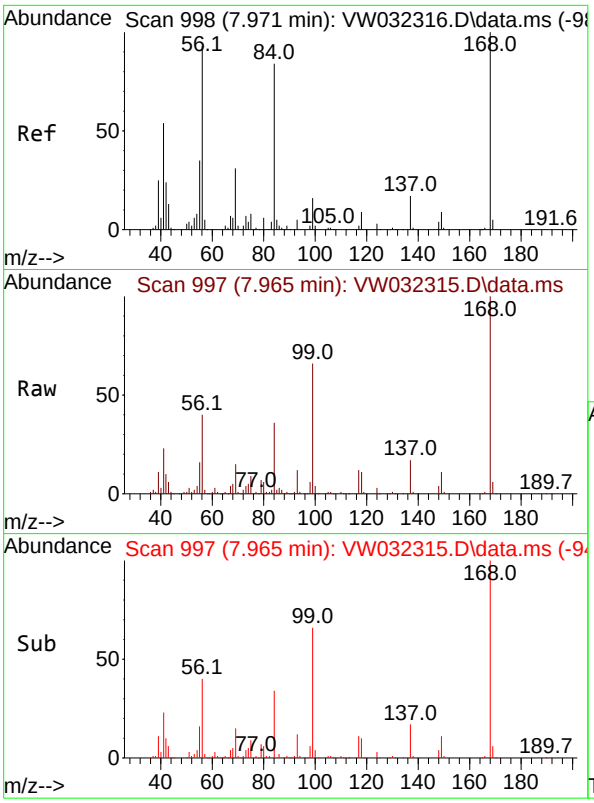


#30
Chloroform
Concen: 20.837 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 83 Resp: 143028

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.2	76.8

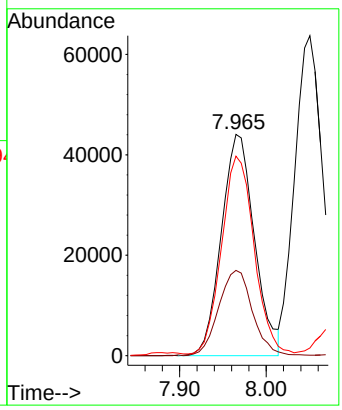




#31
Cyclohexane
Concen: 20.304 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 56 Resp: 11732

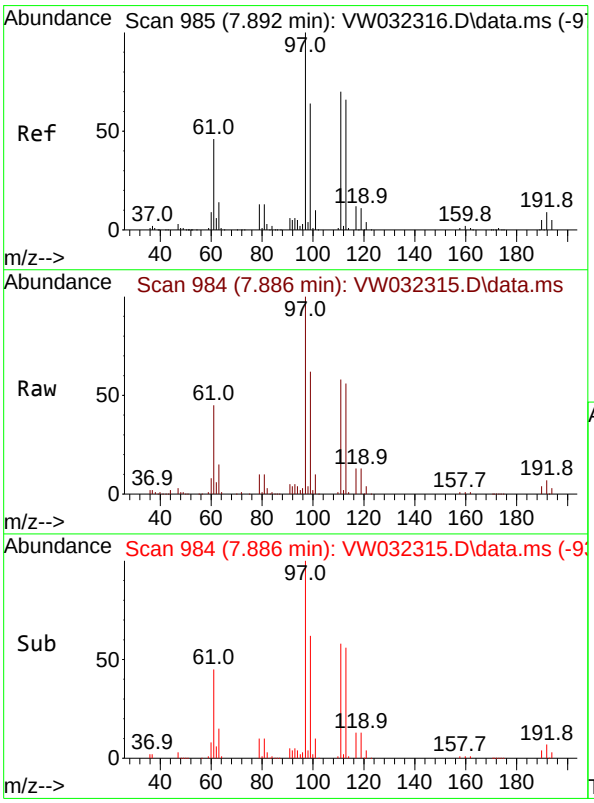
Ion	Ratio	Lower	Upper
56	100		
69	38.2	27.7	41.5
84	89.0	74.6	112.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

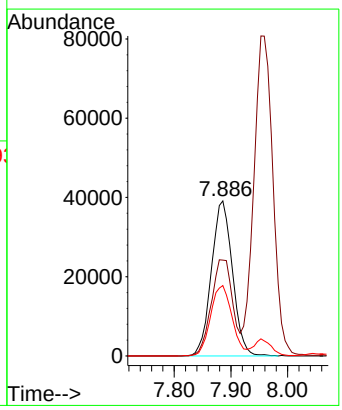
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

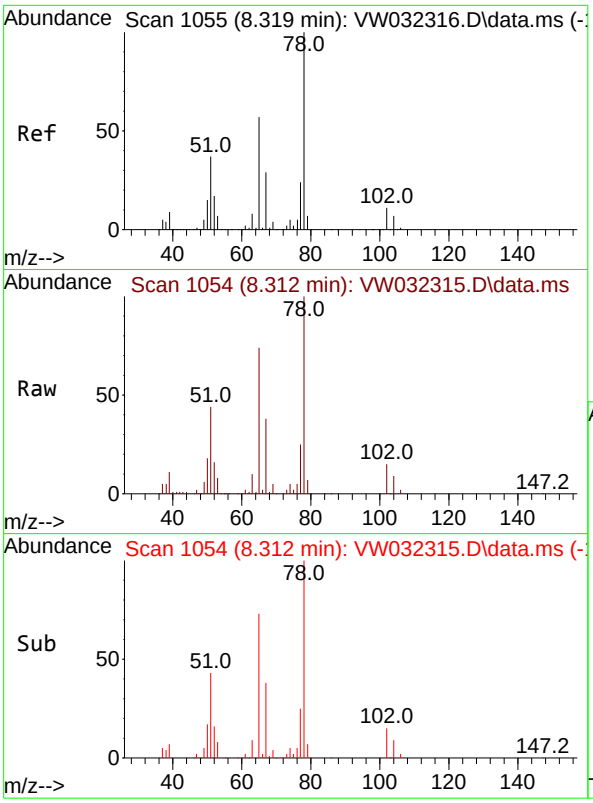


#32
1,1,1-Trichloroethane
Concen: 20.731 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 97 Resp: 100837

Ion	Ratio	Lower	Upper
97	100		
99	62.9	50.9	76.3
61	46.6	36.2	54.4

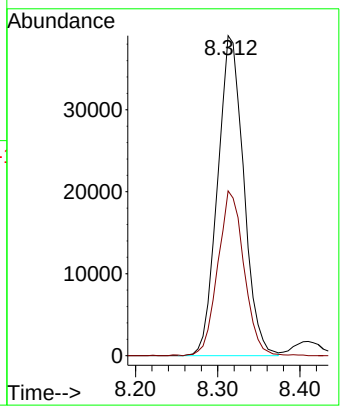




#33
1,2-Dichloroethane-d4
Concen: 20.978 ug/l
RT: 8.312 min Scan# 1
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 65 Resp: 8610

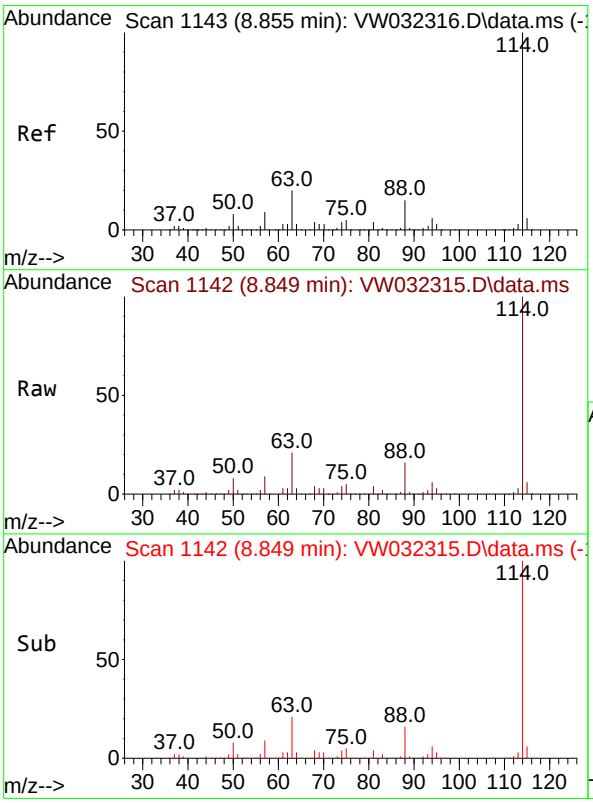
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	99.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

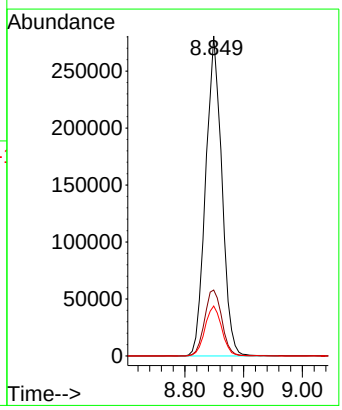
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

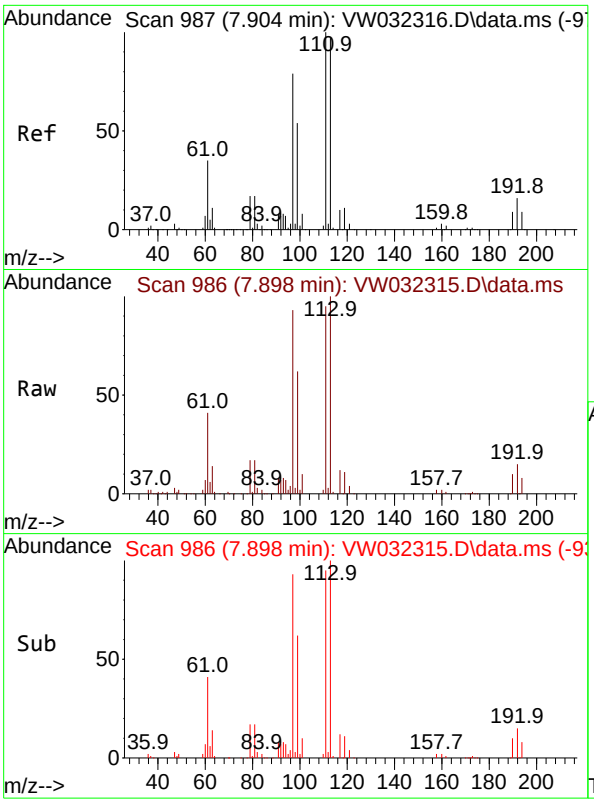


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:114 Resp: 536489

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	40.4
88	15.6	0.0	32.0

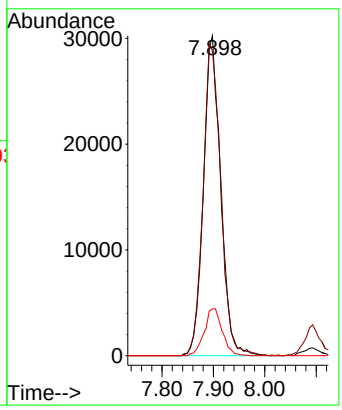




#35
Dibromofluoromethane
Concen: 20.225 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:113 Resp: 7027

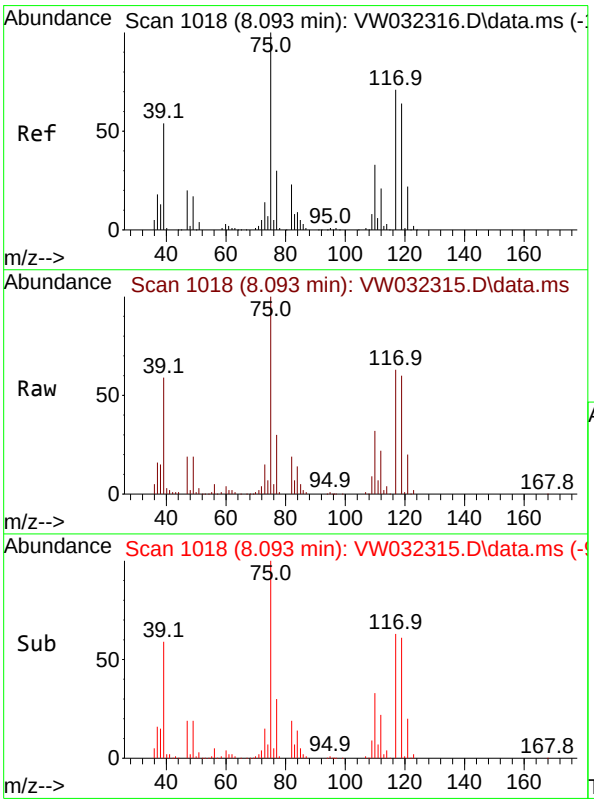
Ion	Ratio	Lower	Upper
113	100		
111	100.5	83.9	125.9
192	15.3	14.6	21.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

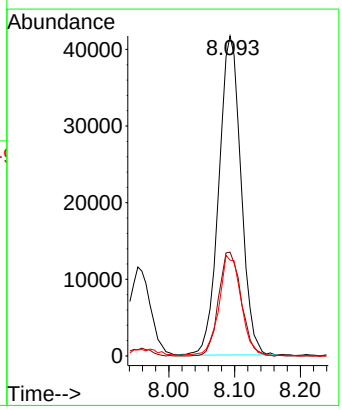
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

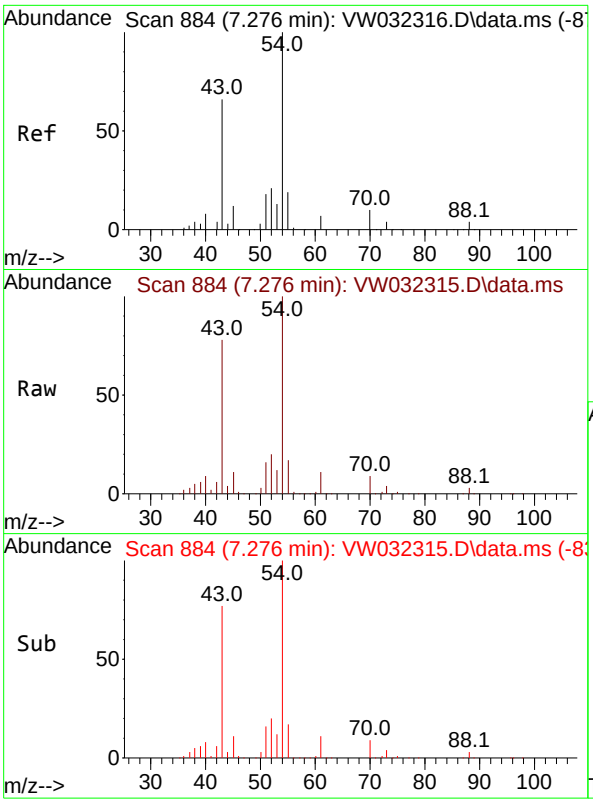


#36
1,1-Dichloropropene
Concen: 19.902 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 75 Resp: 97586

Ion	Ratio	Lower	Upper
75	100		
110	33.2	17.5	52.5
77	31.8	24.1	36.1

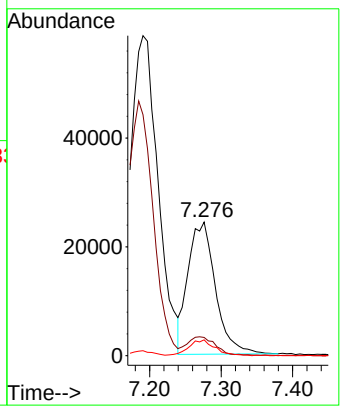




#37
Ethyl Acetate
Concen: 19.859 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 43 Resp: 6481

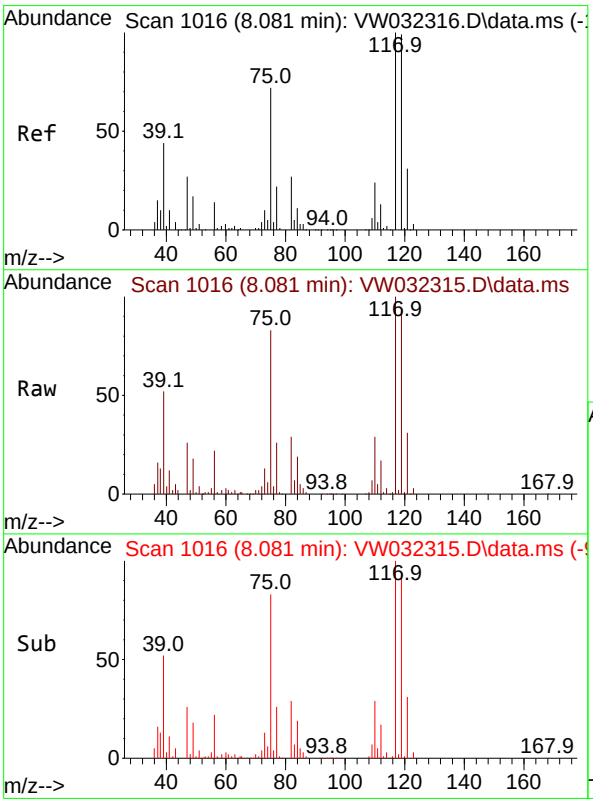
Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.3	16.9
70	11.4	8.9	13.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

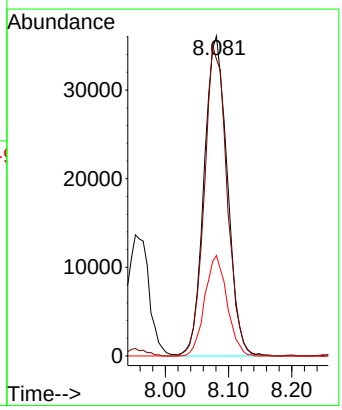
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

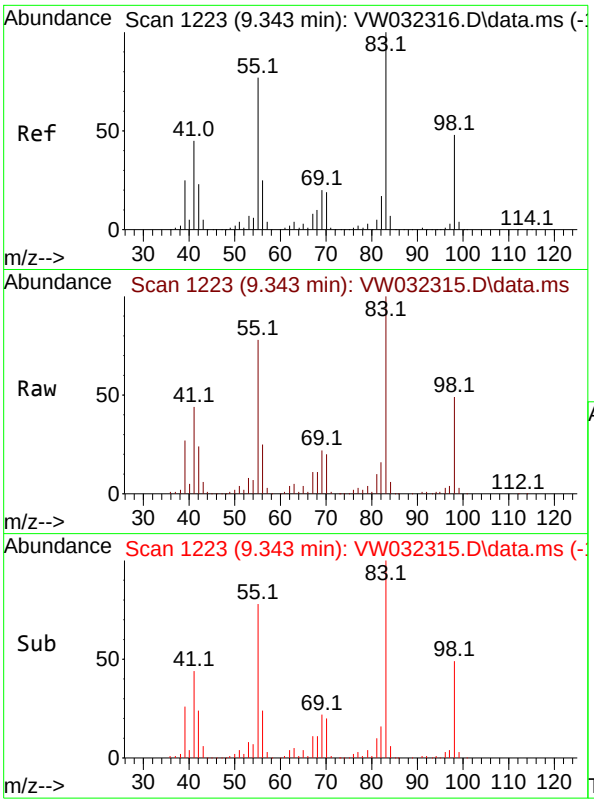


#38
Carbon Tetrachloride
Concen: 19.861 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:117 Resp: 91643

Ion	Ratio	Lower	Upper
117	100		
119	92.7	74.2	111.2
121	31.4	25.6	38.4

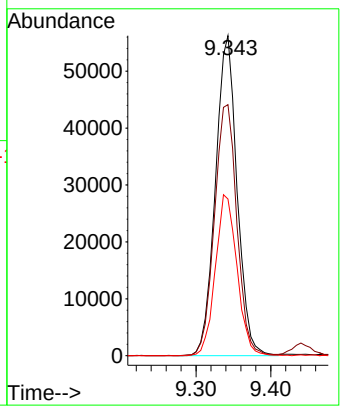




#39
Methylcyclohexane
Concen: 19.190 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 83 Resp: 11350

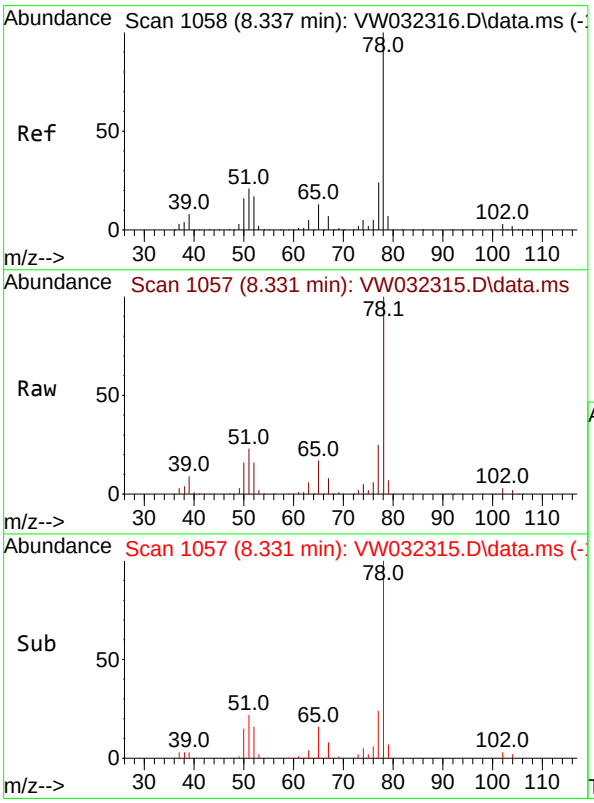
Ion	Ratio	Lower	Upper
83	100		
55	78.4	58.4	87.6
98	49.0	39.4	59.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

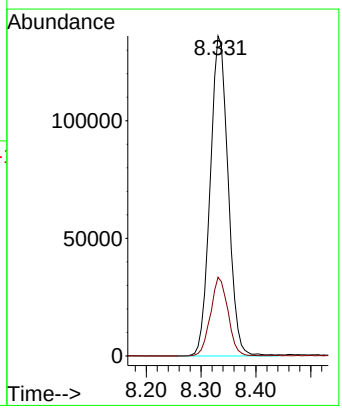
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

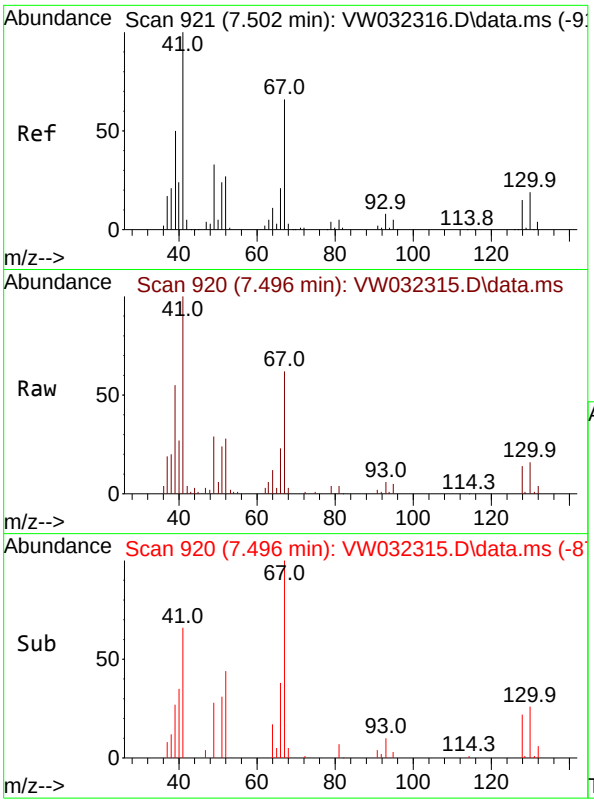


#40
Benzene
Concen: 20.112 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 78 Resp: 309105

Ion	Ratio	Lower	Upper
78	100		
77	24.6	20.7	31.1

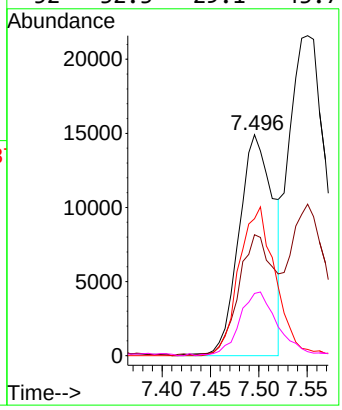




#41
Methacrylonitrile
Concen: 21.042 ug/l
RT: 7.496 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 41 Resp: 3701

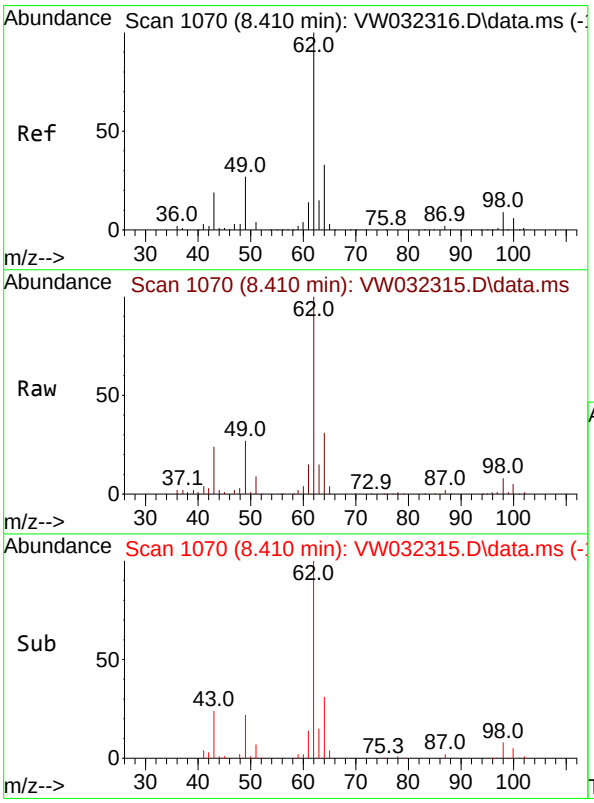
Ion	Ratio	Lower	Upper
41	100		
39	54.5	50.9	76.3
67	72.1	65.6	98.4
52	32.3	29.1	43.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

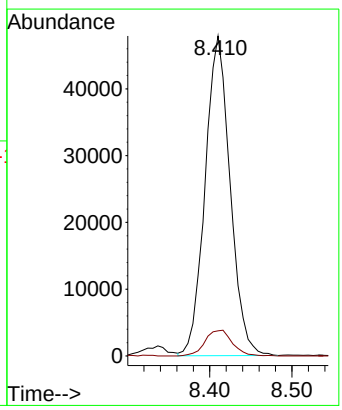
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

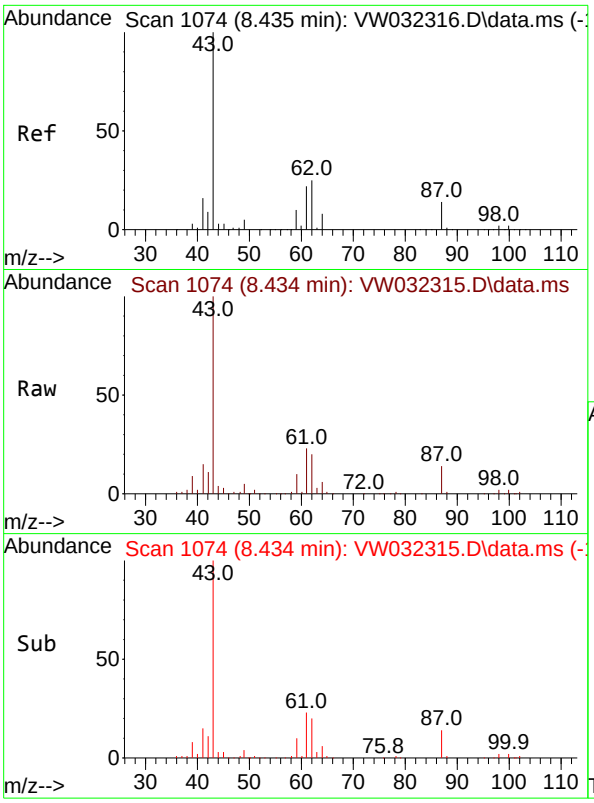


#42
1,2-Dichloroethane
Concen: 20.160 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 62 Resp: 101383

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.0





#43
Isopropyl Acetate
Concen: 19.988 ug/l
RT: 8.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

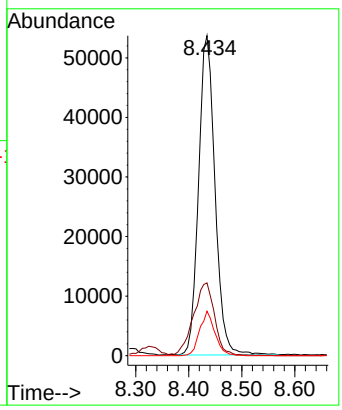
Tgt Ion: 43 Resp: 11572

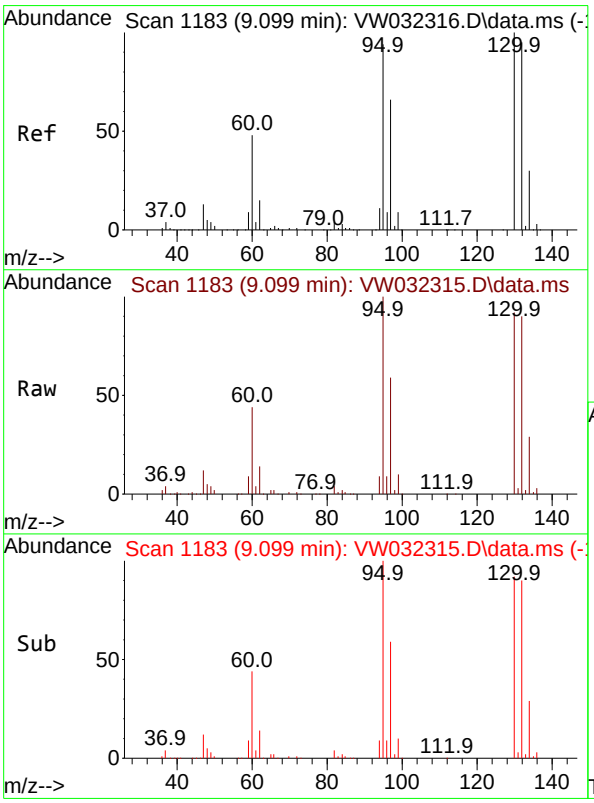
Ion	Ratio	Lower	Upper
43	100		
61	29.5	23.3	34.9
87	12.9	11.1	16.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

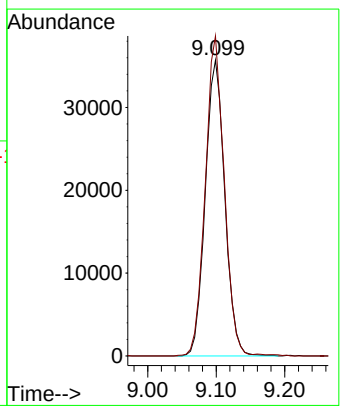


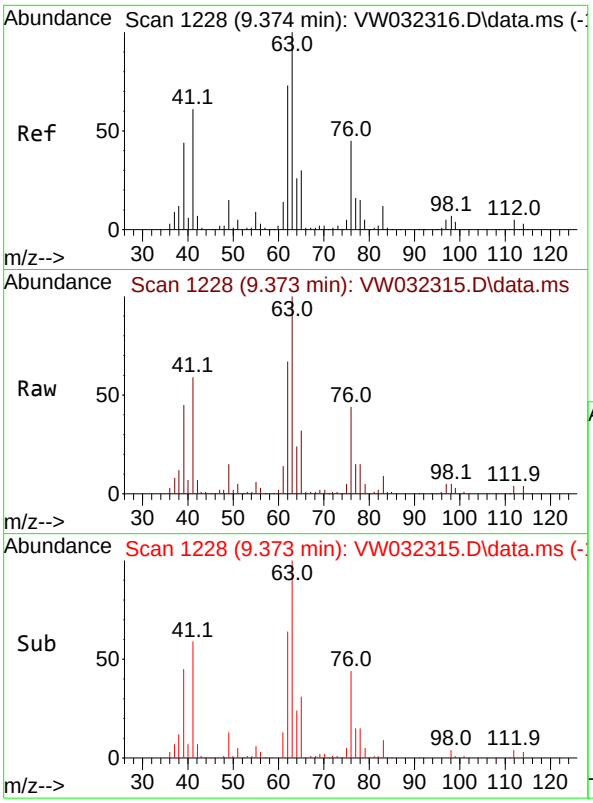


#44
Trichloroethene
Concen: 19.651 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:130 Resp: 70719

Ion	Ratio	Lower	Upper
130	100		
95	107.9	0.0	220.0

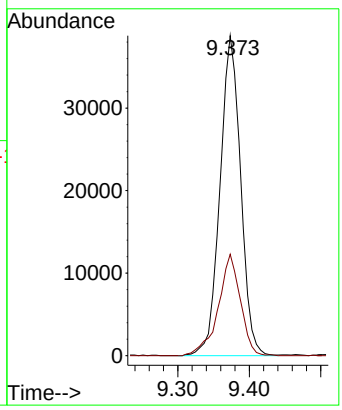




#45
1,2-Dichloropropane
Concen: 20.284 ug/l
RT: 9.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 63 Resp: 7781

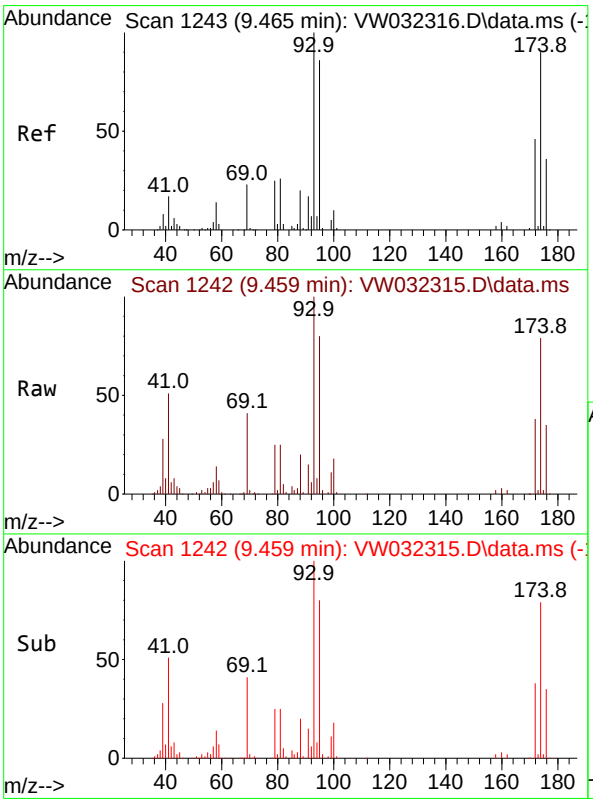
Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.3	36.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

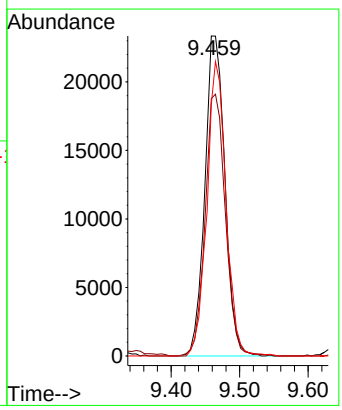
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

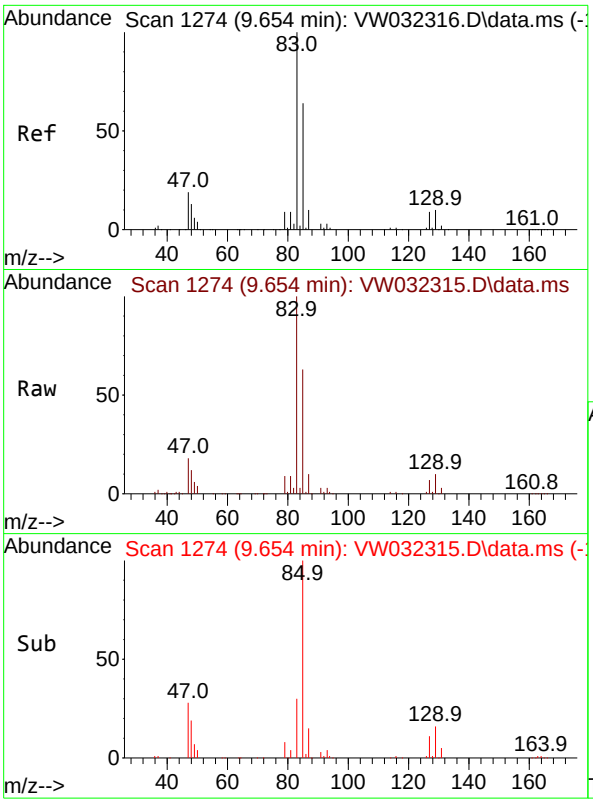


#46
Dibromomethane
Concen: 20.192 ug/l
RT: 9.459 min Scan# 1242
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 93 Resp: 47632

Ion	Ratio	Lower	Upper
93	100		
95	82.3	67.4	101.2
174	87.4	75.7	113.5

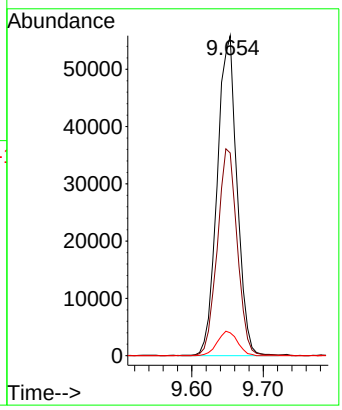




#47
Bromodichloromethane
Concen: 19.886 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 83 Resp: 10729

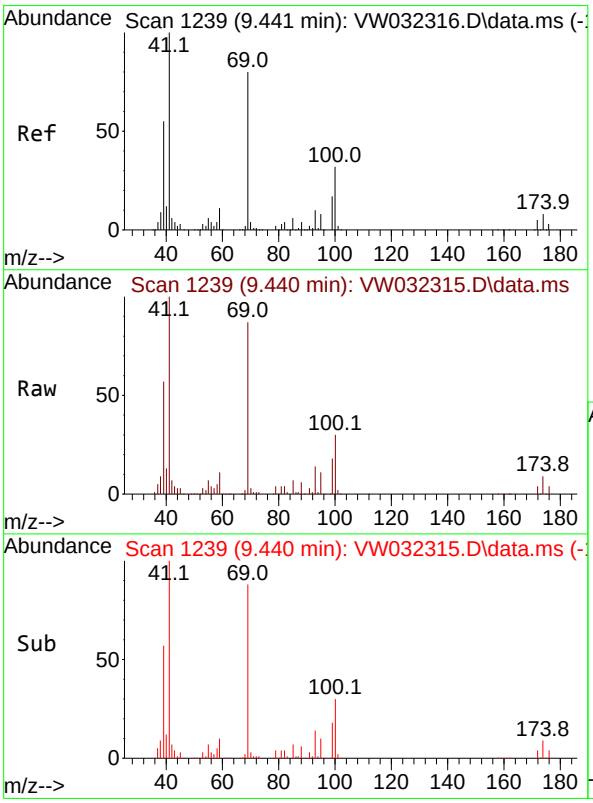
Ion	Ratio	Lower	Upper
83	100		
85	63.2	48.7	73.1
127	7.1	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

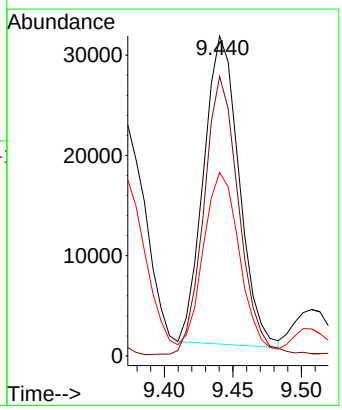
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

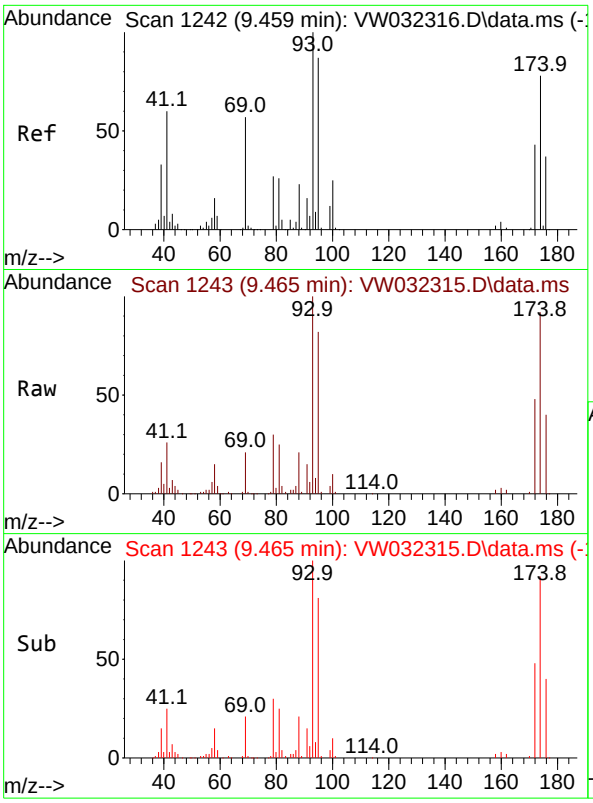


#48
Methyl methacrylate
Concen: 19.561 ug/l
RT: 9.440 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 41 Resp: 55063

Ion	Ratio	Lower	Upper
41	100		
69	90.8	71.5	107.3
39	61.9	55.9	83.9

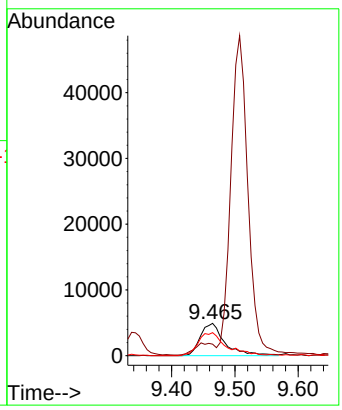




#49
1,4-Dioxane
Concen: 414.108 ug/l
RT: 9.465 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 88 Resp: 1335

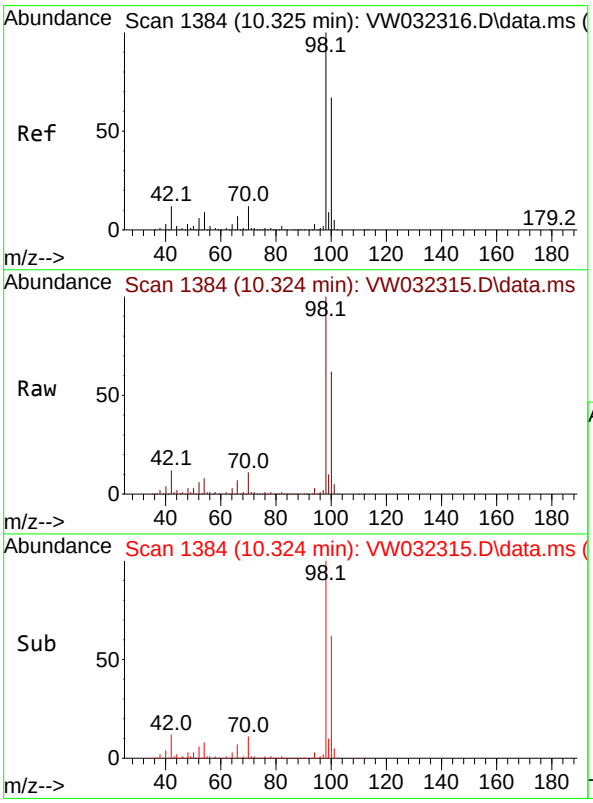
Ion	Ratio	Lower	Upper
88	100		
43	29.8	18.0	27.0
58	80.9	55.4	83.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

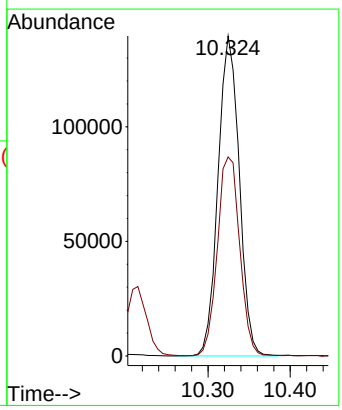
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

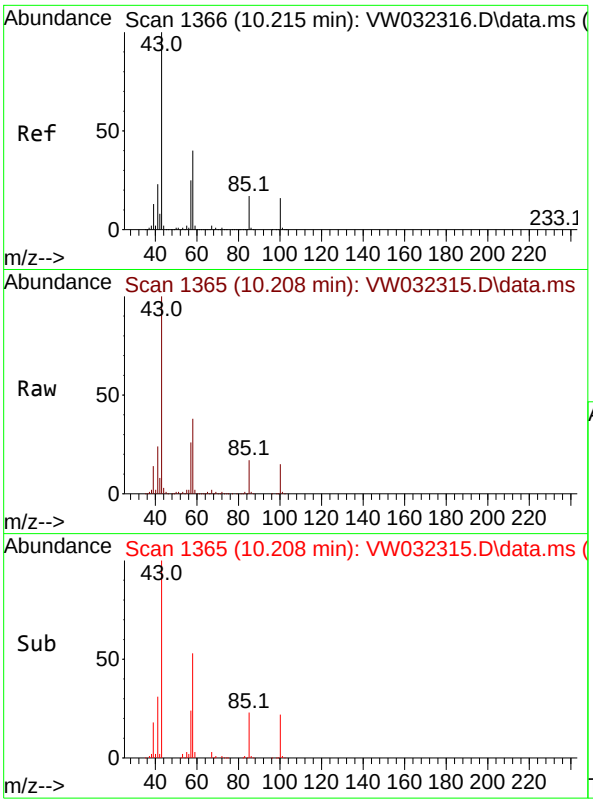


#50
Toluene-d8
Concen: 19.507 ug/l
RT: 10.324 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 98 Resp: 250144

Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.4	77.2

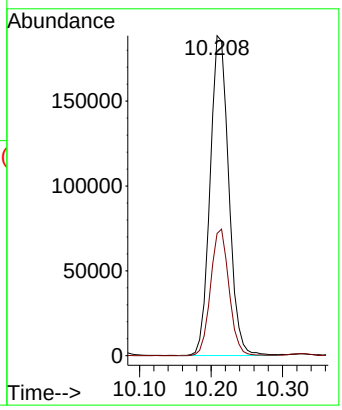




#51
4-Methyl-2-Pentanone
Concen: 101.802 ug/l
RT: 10.208 min Scan# 1
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 43 Resp: 34138

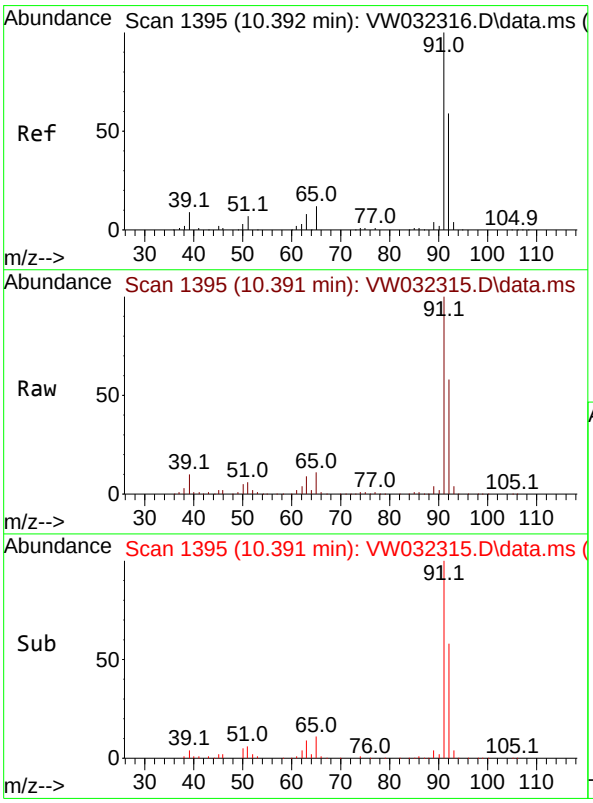
Ion	Ratio	Lower	Upper
43	100		
58	39.1	32.0	48.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

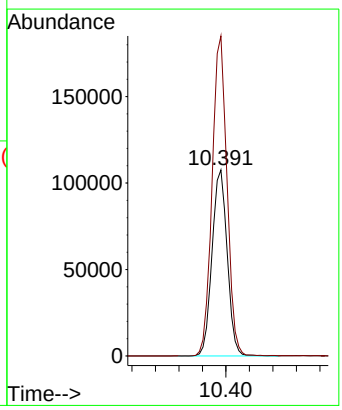
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

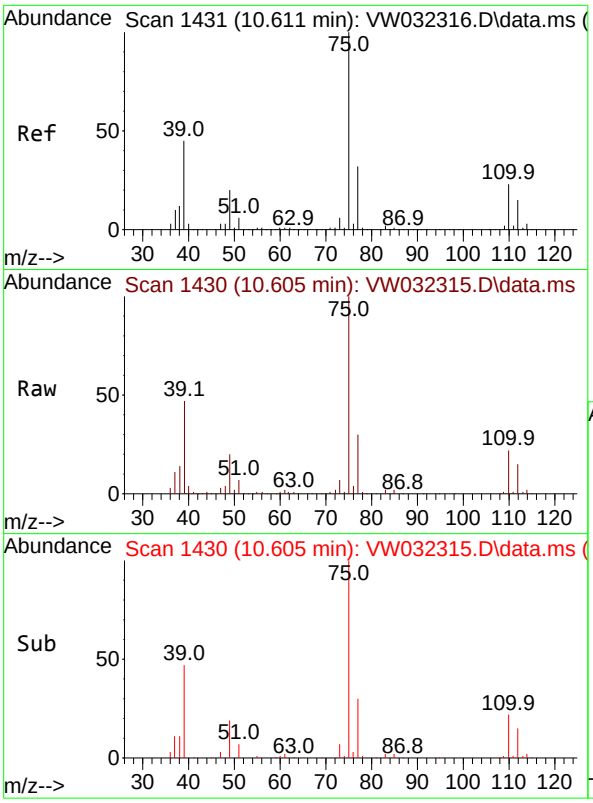


#52
Toluene
Concen: 20.102 ug/l
RT: 10.391 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 92 Resp: 192396

Ion	Ratio	Lower	Upper
92	100		
91	168.8	137.5	206.3

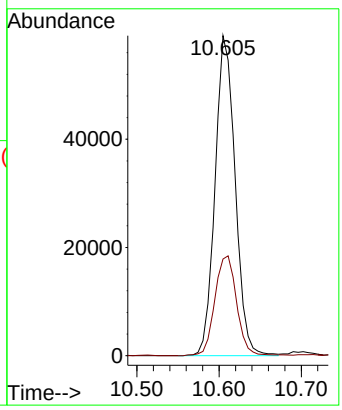




#53
t-1,3-Dichloropropene
Concen: 19.211 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 75 Resp: 10055

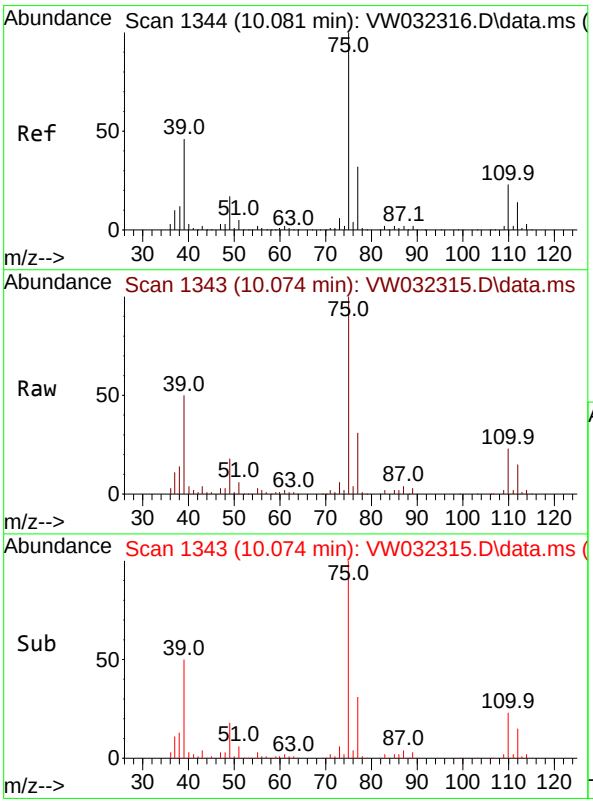
Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.6	38.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

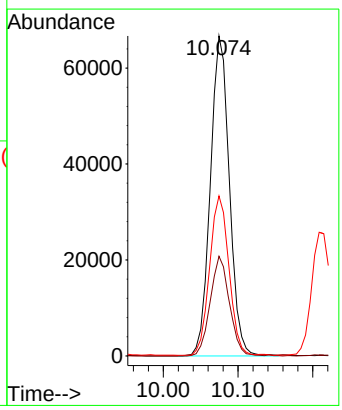
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

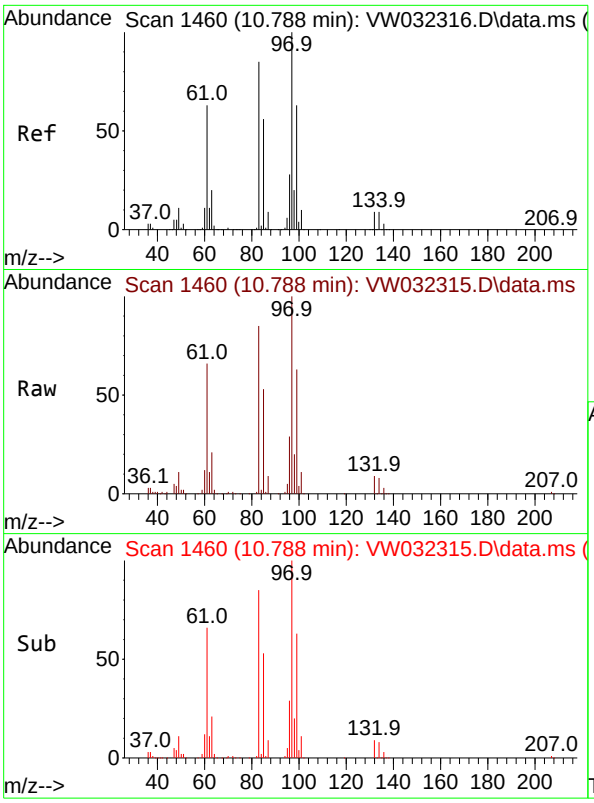


#54
cis-1,3-Dichloropropene
Concen: 19.565 ug/l
RT: 10.074 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 75 Resp: 117968

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.1	37.7
39	49.8	43.2	64.8

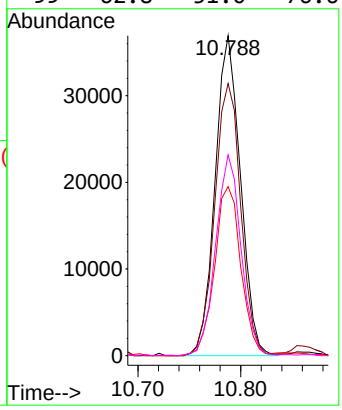




#55
1,1,2-Trichloroethane
Concen: 20.068 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 97 Resp: 6327

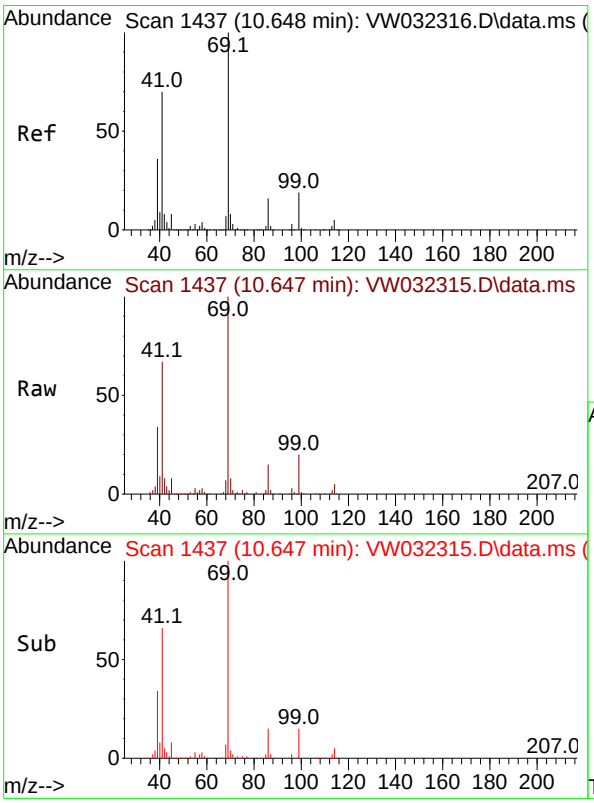
Ion	Ratio	Lower	Upper
97	100		
83	85.0	71.0	106.6
85	52.8	42.8	64.2
99	62.8	51.0	76.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

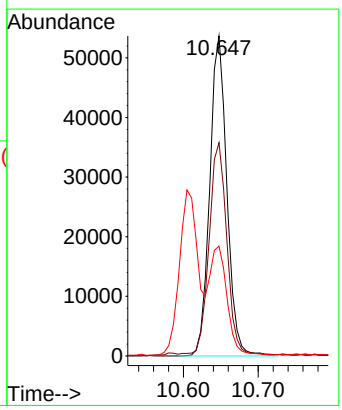
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

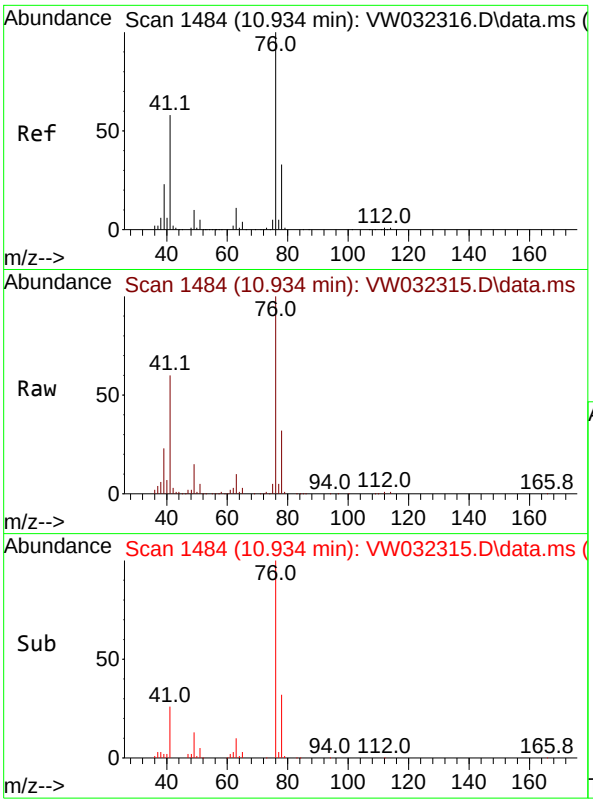


#56
Ethyl methacrylate
Concen: 19.407 ug/l
RT: 10.647 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 69 Resp: 85643

Ion	Ratio	Lower	Upper
69	100		
41	68.9	53.2	79.8
39	33.7	32.9	49.3

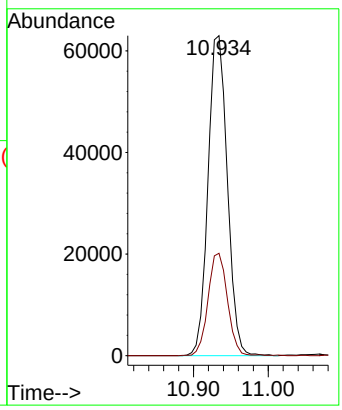




#57
1,3-Dichloropropane
Concen: 20.283 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 76 Resp: 11294

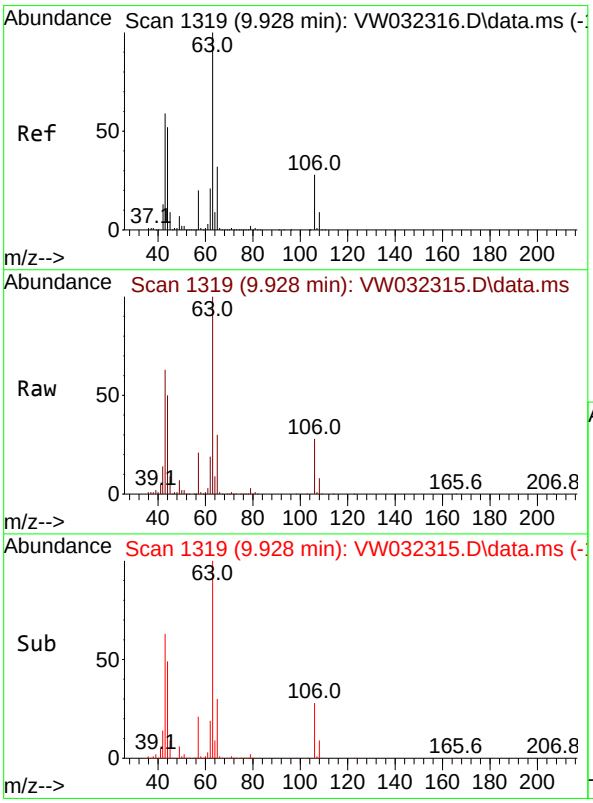
Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

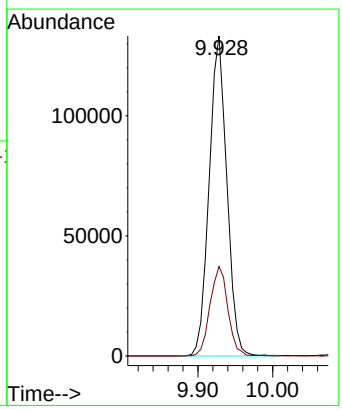
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

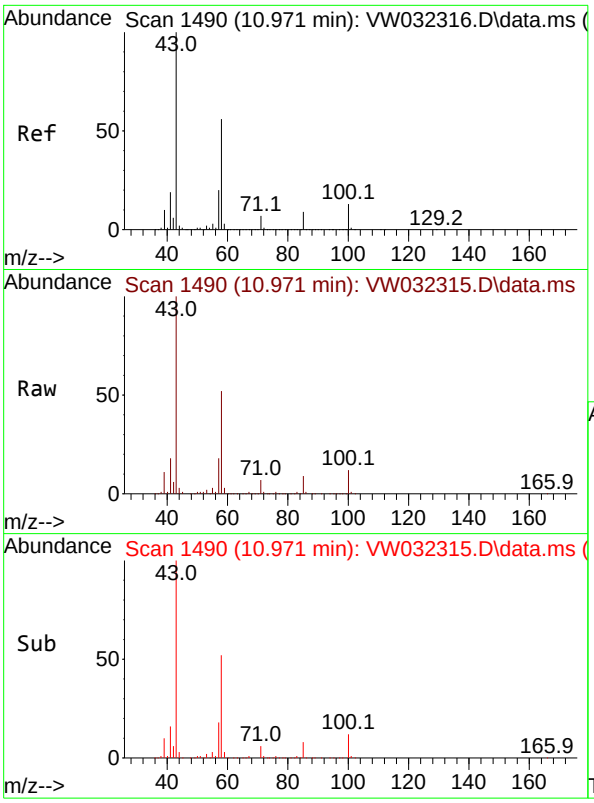


#58
2-Chloroethyl Vinyl ether
Concen: 93.287 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 63 Resp: 219091

Ion	Ratio	Lower	Upper
63	100		
106	28.2	24.3	36.5

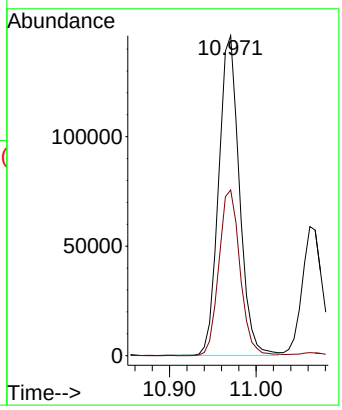




#59
2-Hexanone
Concen: 102.664 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 43 Resp: 24281

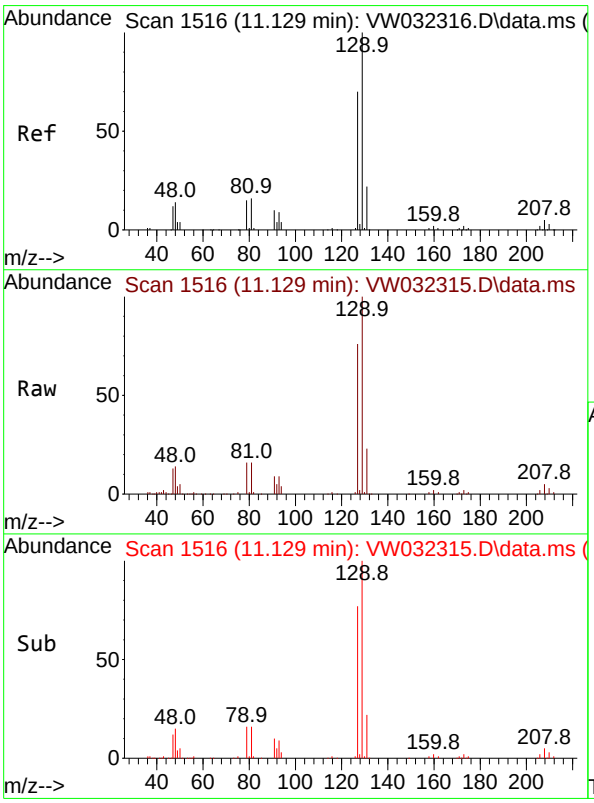
Ion	Ratio	Lower	Upper
43	100		
58	53.0	27.5	82.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

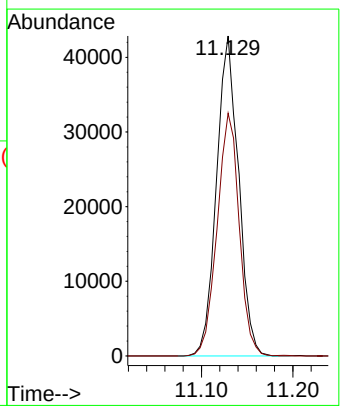
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

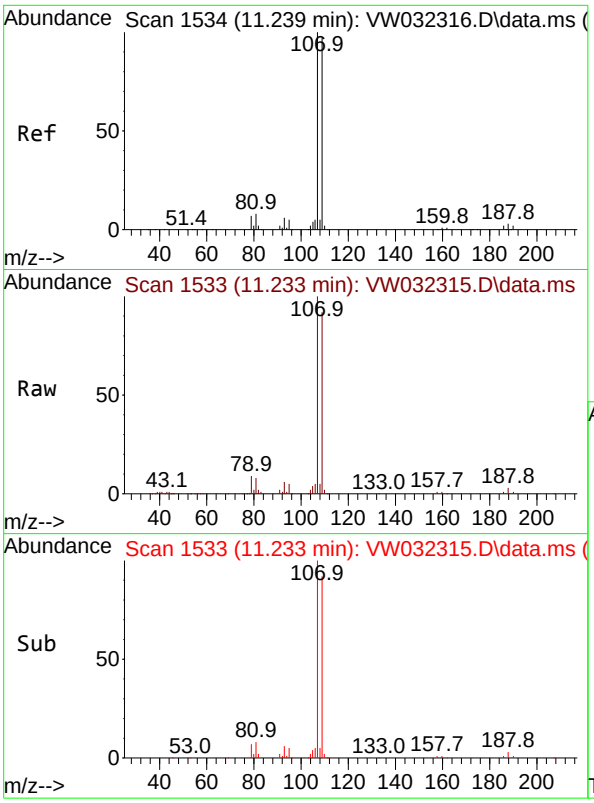


#60
Dibromochloromethane
Concen: 20.051 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:129 Resp: 71782

Ion	Ratio	Lower	Upper
129	100		
127	76.0	38.1	114.5





#61
1,2-Dibromoethane
Concen: 20.135 ug/l
RT: 11.233 min Scan# 1
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

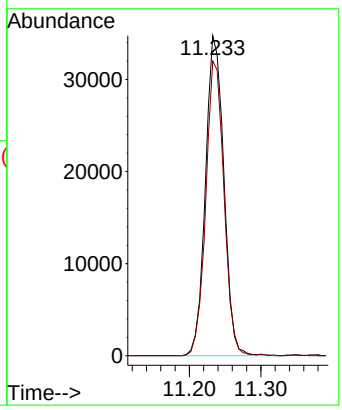
Tgt Ion:107 Resp: 6189

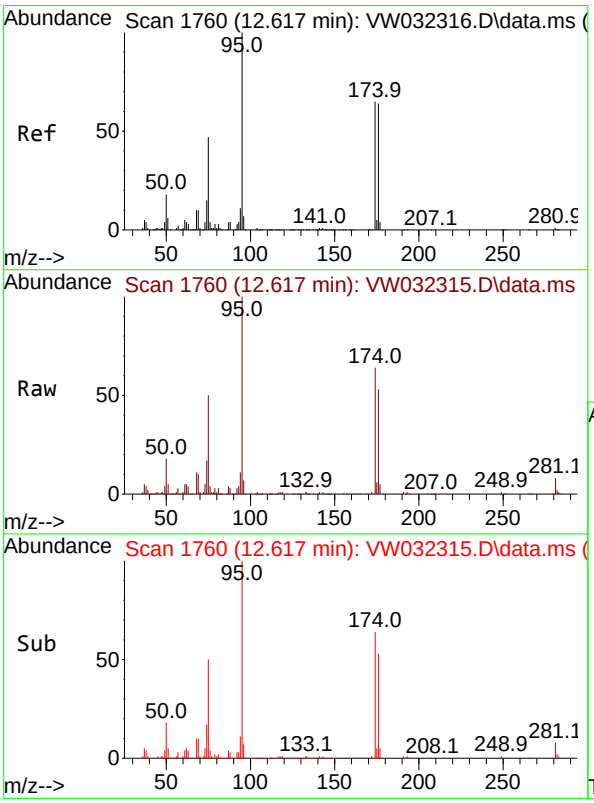
Ion	Ratio	Lower	Upper
107	100		
109	91.2	74.5	111.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

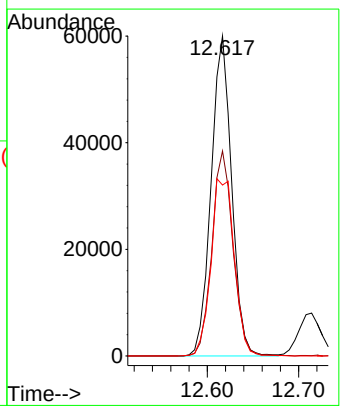


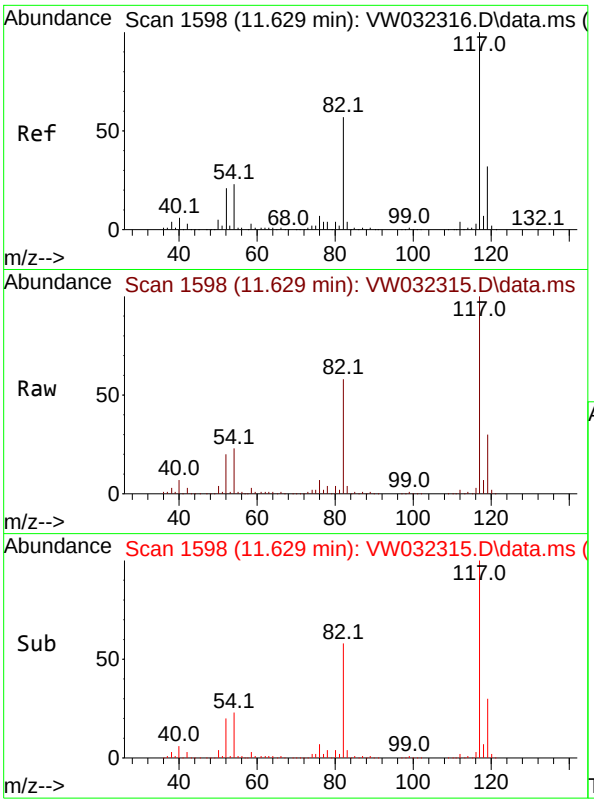


#62
4-Bromofluorobenzene
Concen: 19.305 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 95 Resp: 93567

Ion	Ratio	Lower	Upper
95	100		
174	65.8	0.0	145.6
176	63.4	0.0	140.8

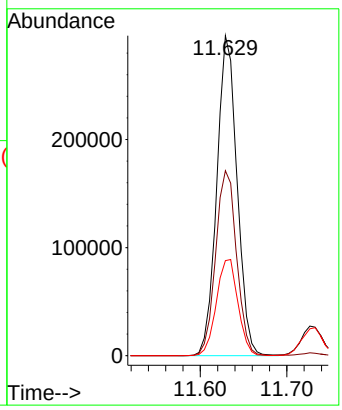




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:117 Resp: 48150

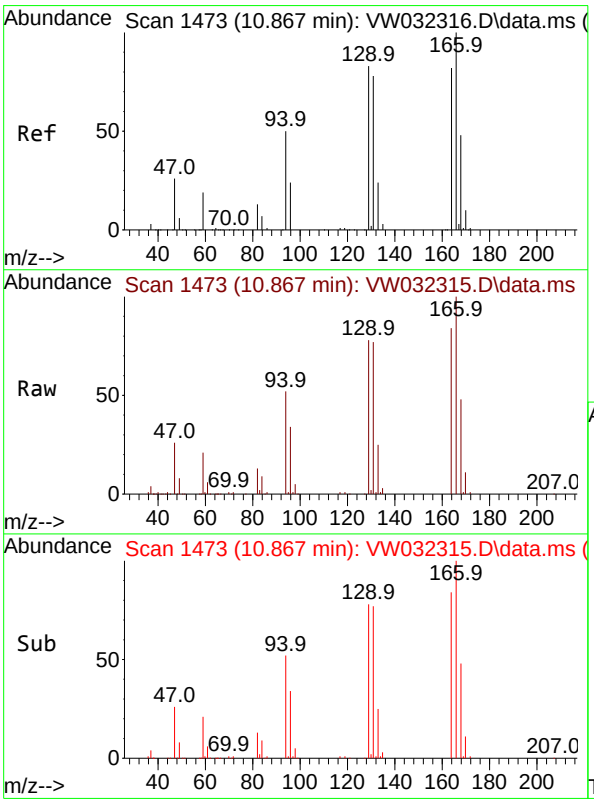
Ion	Ratio	Lower	Upper
117	100		
82	57.8	42.7	64.1
119	29.7	25.2	37.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

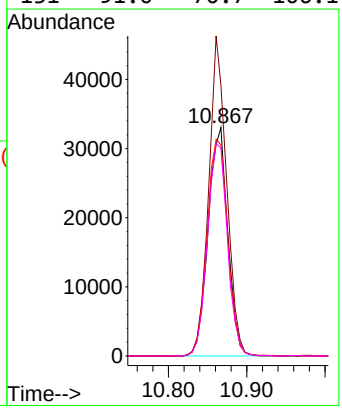
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

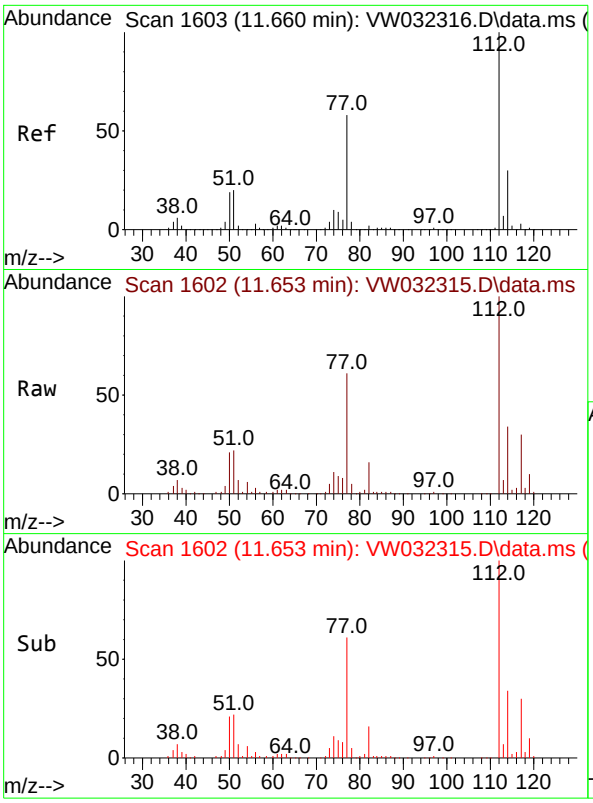


#64
Tetrachloroethene
Concen: 19.958 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:164 Resp: 57503

Ion	Ratio	Lower	Upper
164	100		
166	118.6	97.5	146.3
129	92.4	71.2	106.8
131	91.0	70.7	106.1

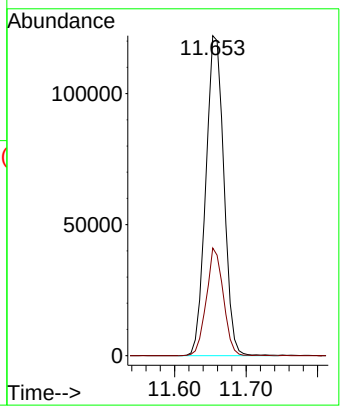




#65
Chlorobenzene
Concen: 20.167 ug/l
RT: 11.653 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:112 Resp: 21365

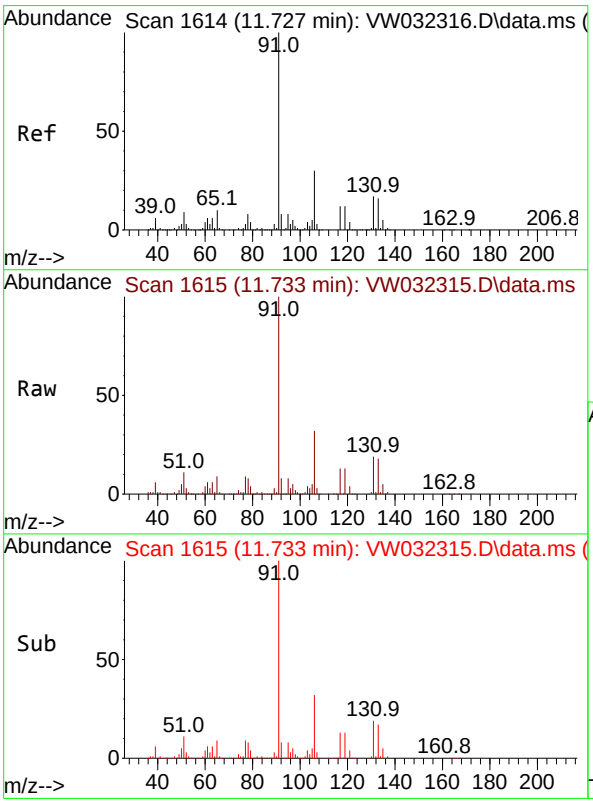
Ion	Ratio	Lower	Upper
112	100		
114	33.7	26.0	39.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

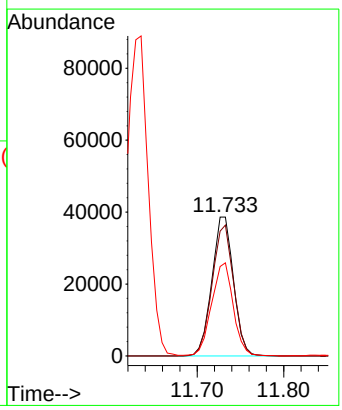
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

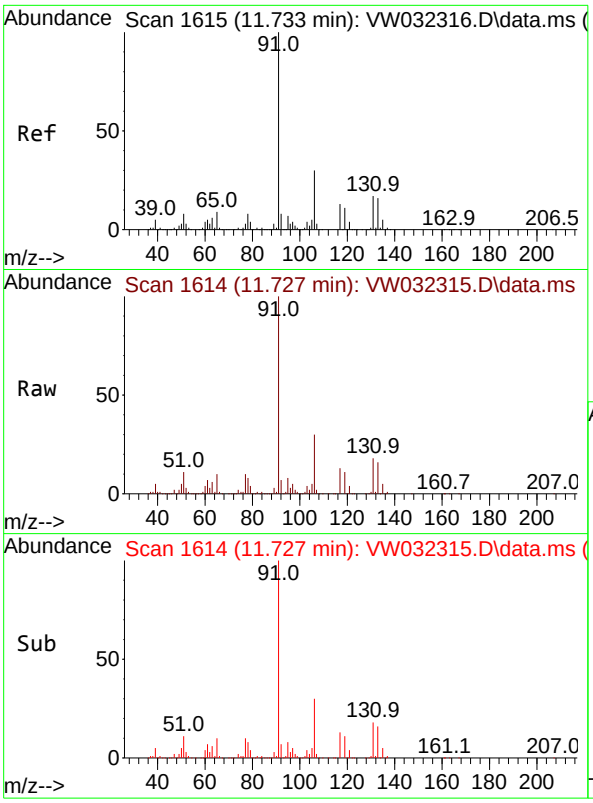


#66
1,1,1,2-Tetrachloroethane
Concen: 20.280 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:131 Resp: 66918

Ion	Ratio	Lower	Upper
131	100		
133	94.1	47.7	143.1
119	67.3	32.8	98.3





#67
Ethyl Benzene
Concen: 20.103 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

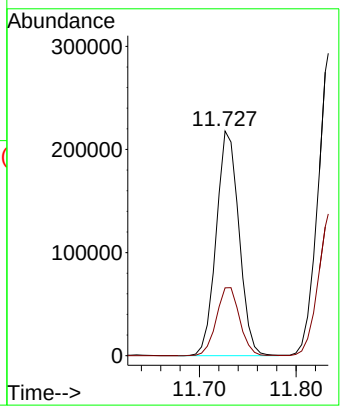
Tgt Ion: 91 Resp: 35500

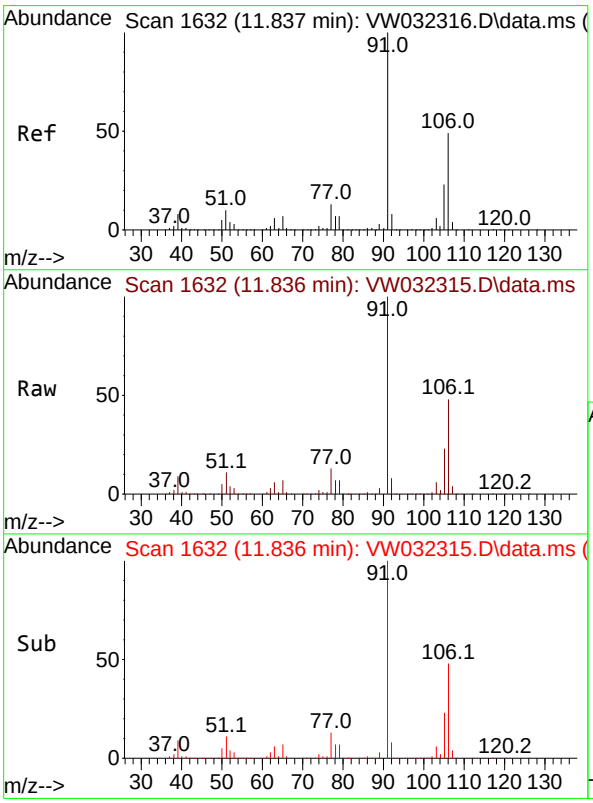
Ion	Ratio	Lower	Upper
91	100		
106	30.2	25.3	37.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

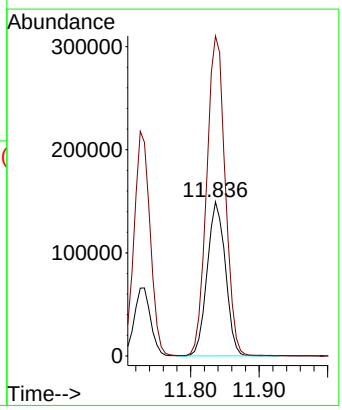


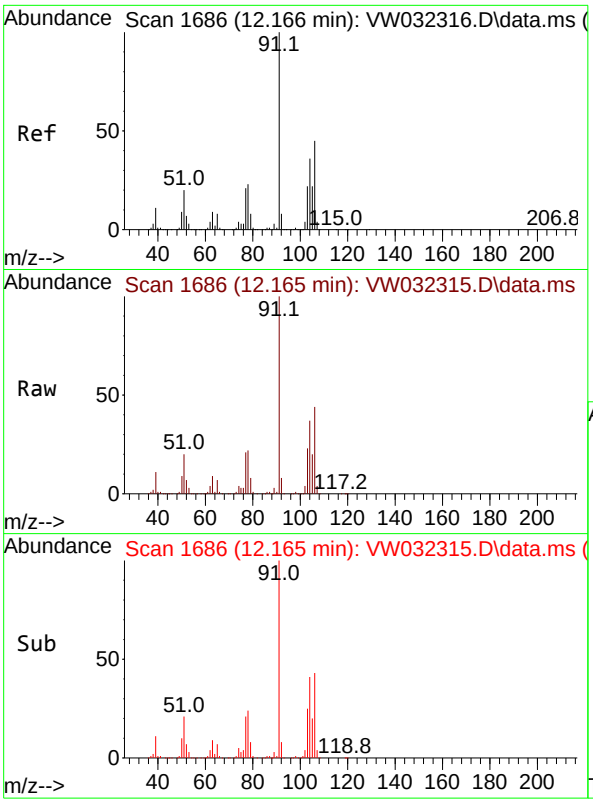


#68
m/p-Xylenes
Concen: 40.461 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:106 Resp: 275521

Ion	Ratio	Lower	Upper
106	100		
91	210.9	164.2	246.2

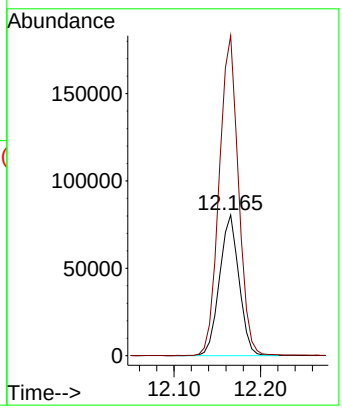




#69
o-Xylene
Concen: 19.762 ug/l
RT: 12.165 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:106 Resp: 12584

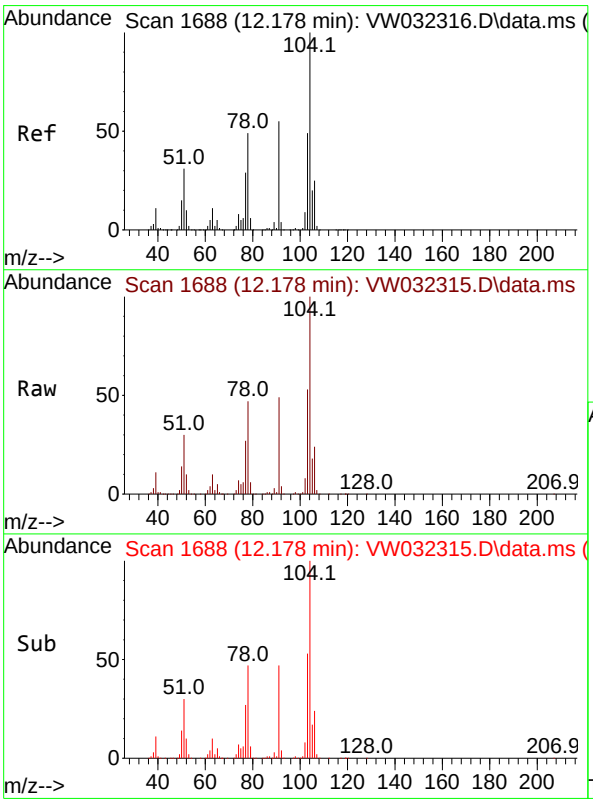
Ion	Ratio	Lower	Upper
106	100		
91	226.2	108.7	326.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

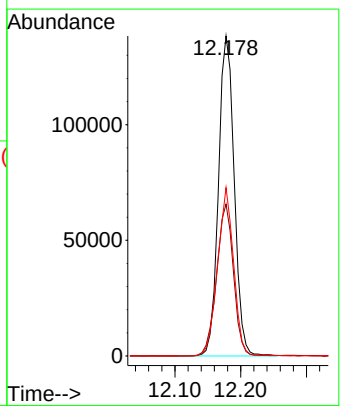
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

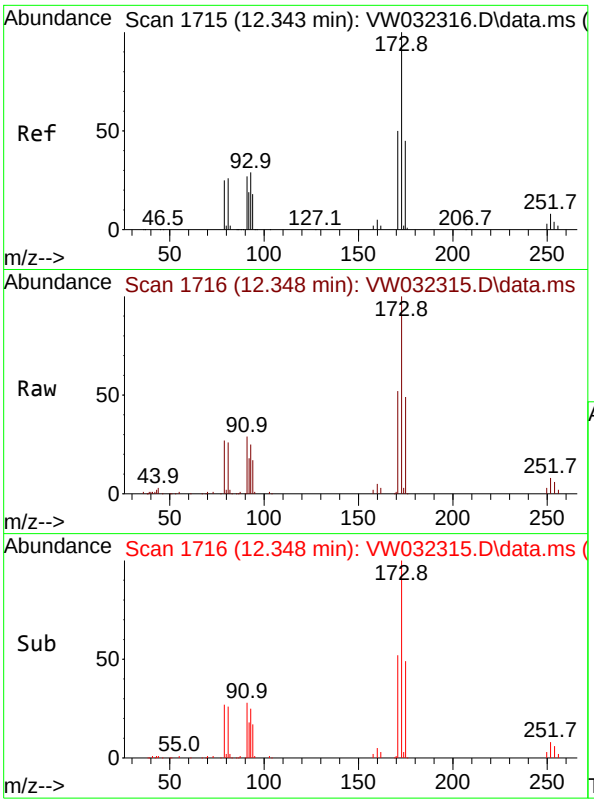


#70
Styrene
Concen: 20.776 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:104 Resp: 230999

Ion	Ratio	Lower	Upper
104	100		
78	50.9	41.6	62.4
103	53.5	44.8	67.2

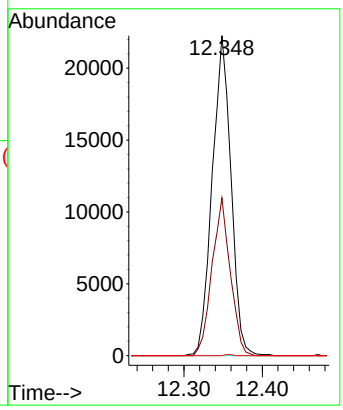




#71
Bromoform
Concen: 19.593 ug/l
RT: 12.348 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:173 Resp: 3705

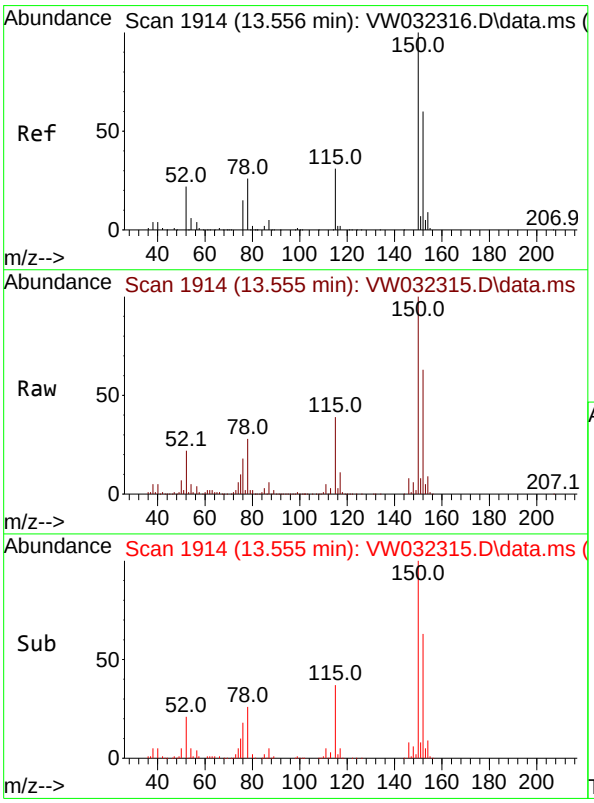
Ion	Ratio	Lower	Upper
173	100		
175	48.0	24.9	74.7
254	0.1	0.2	0.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

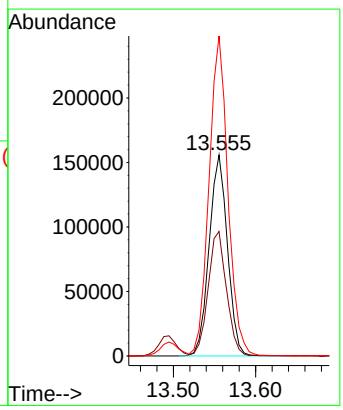
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

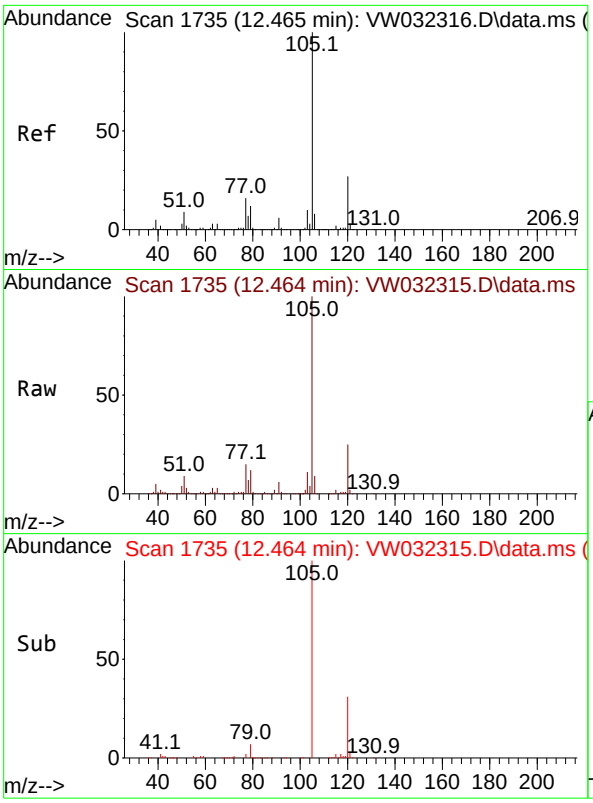


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.555 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:152 Resp: 241841

Ion	Ratio	Lower	Upper
152	100		
115	61.8	31.8	95.4
150	163.6	0.0	343.0

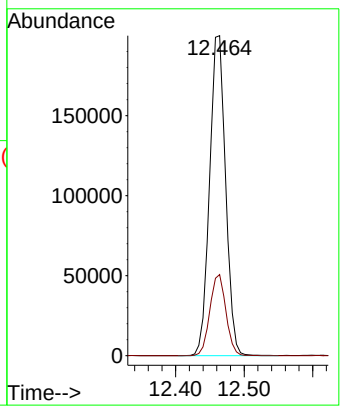




#73
Isopropylbenzene
Concen: 19.668 ug/l
RT: 12.464 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:105 Resp: 32541

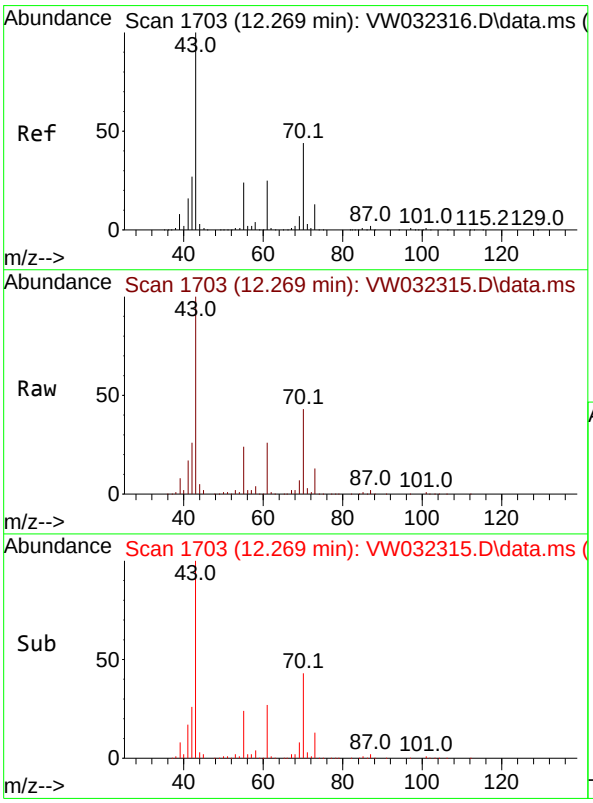
Ion	Ratio	Lower	Upper
105	100		
120	25.3	13.0	38.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

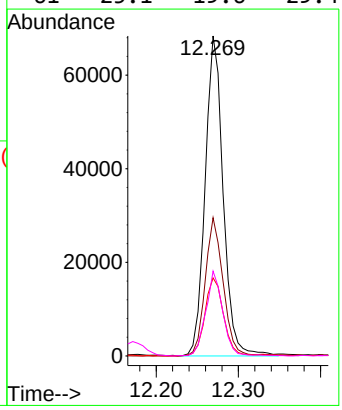
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

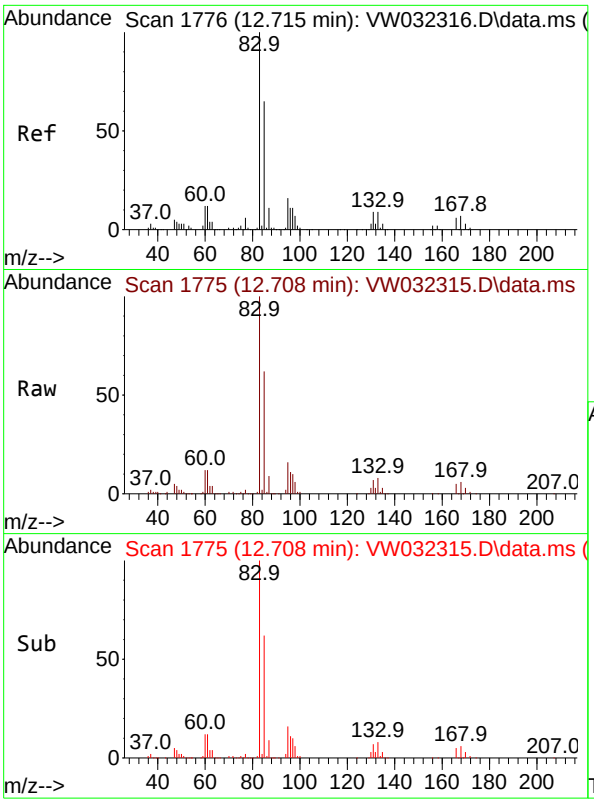


#74
N-amyl acetate
Concen: 19.793 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 43 Resp: 104472

Ion	Ratio	Lower	Upper
43	100		
70	42.8	35.3	52.9
55	25.1	19.9	29.9
61	25.1	19.6	29.4

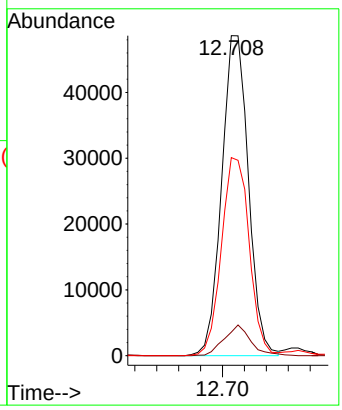




#75
1,1,2,2-Tetrachloroethane
Concen: 20.041 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 83 Resp: 8233

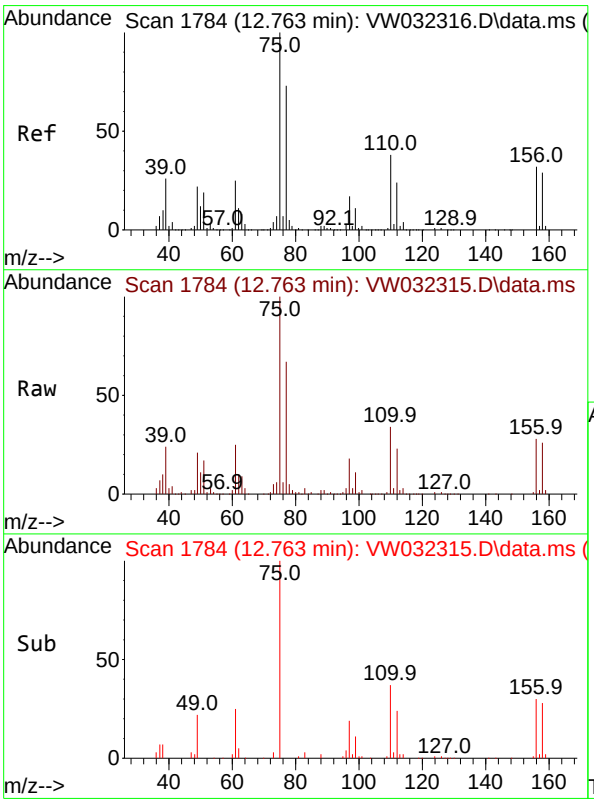
Ion	Ratio	Lower	Upper
83	100		
131	9.5	5.1	15.4
85	64.5	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

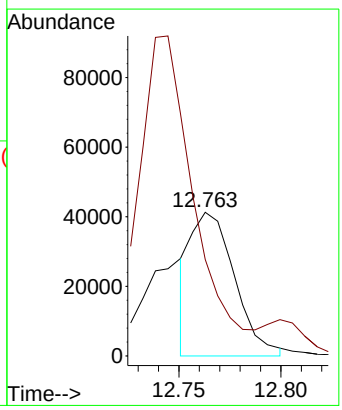
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

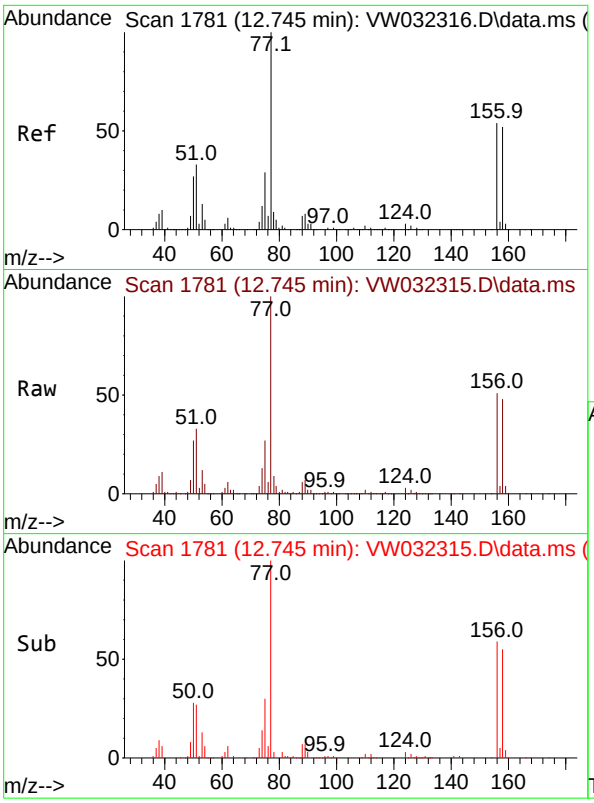


#76
1,2,3-Trichloropropane
Concen: 19.396 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 75 Resp: 61898

Ion	Ratio	Lower	Upper
75	100		
77	282.2	141.7	425.1

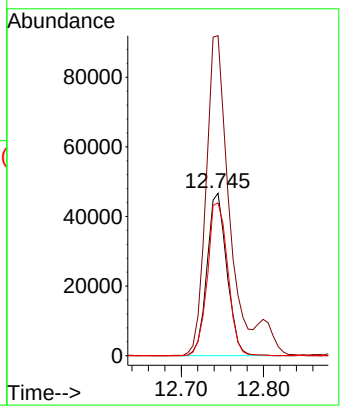




#77
Bromobenzene
Concen: 19.575 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:156 Resp: 7807

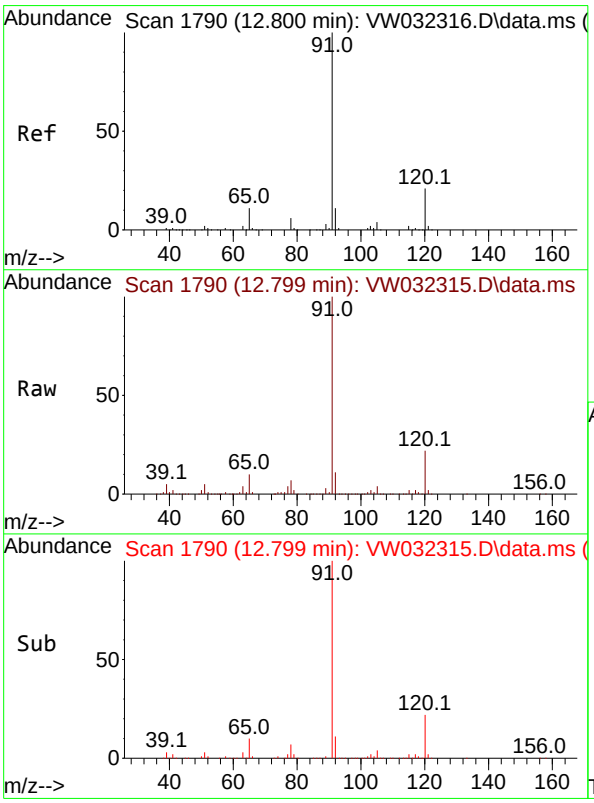
Ion	Ratio	Lower	Upper
156	100		
77	223.8	98.6	295.7
158	97.1	48.4	145.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

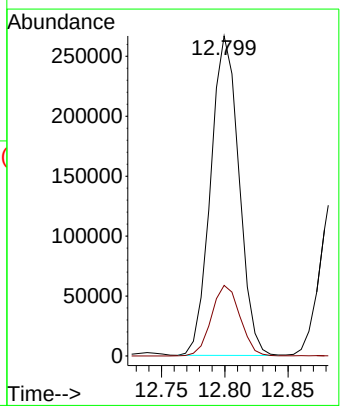
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

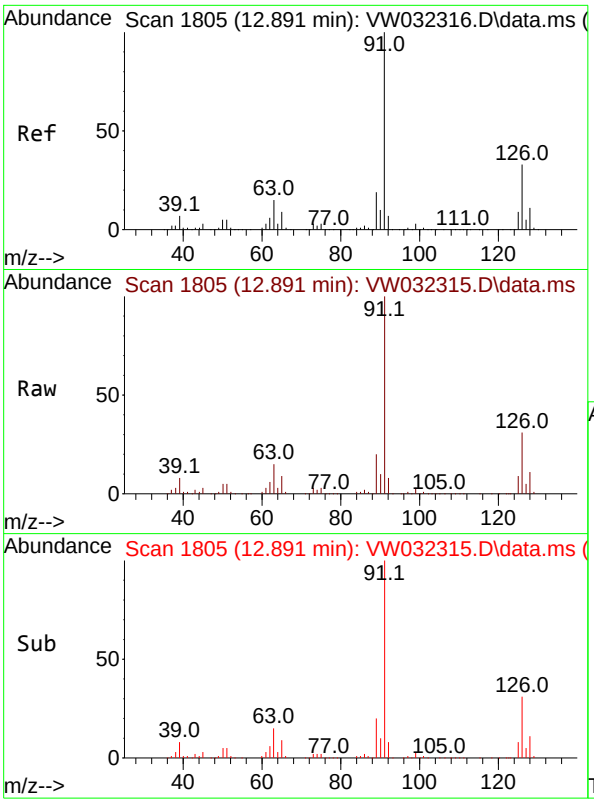


#78
n-propylbenzene
Concen: 20.057 ug/l
RT: 12.799 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 91 Resp: 414530

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.8	35.4

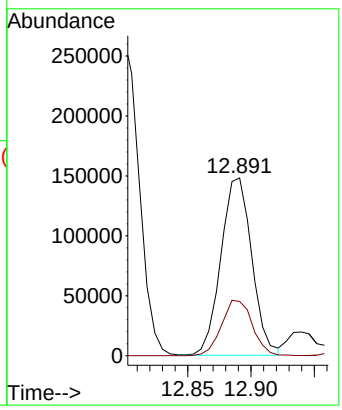




#79
2-Chlorotoluene
Concen: 19.933 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 91 Resp: 25188

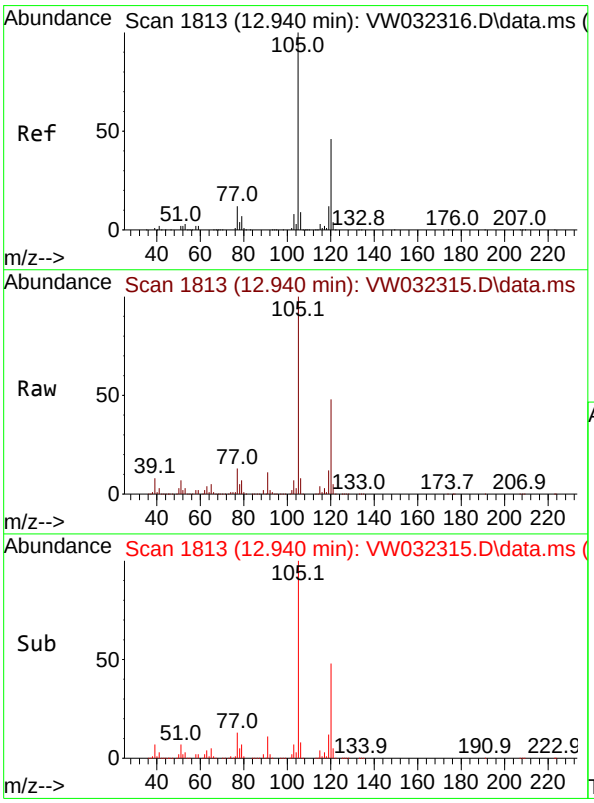
Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.6	49.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

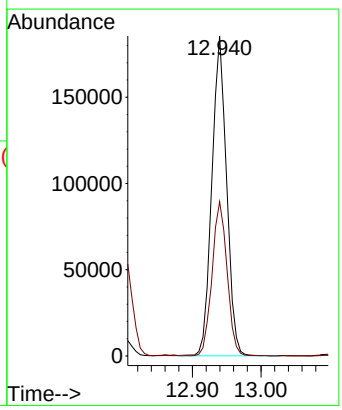
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

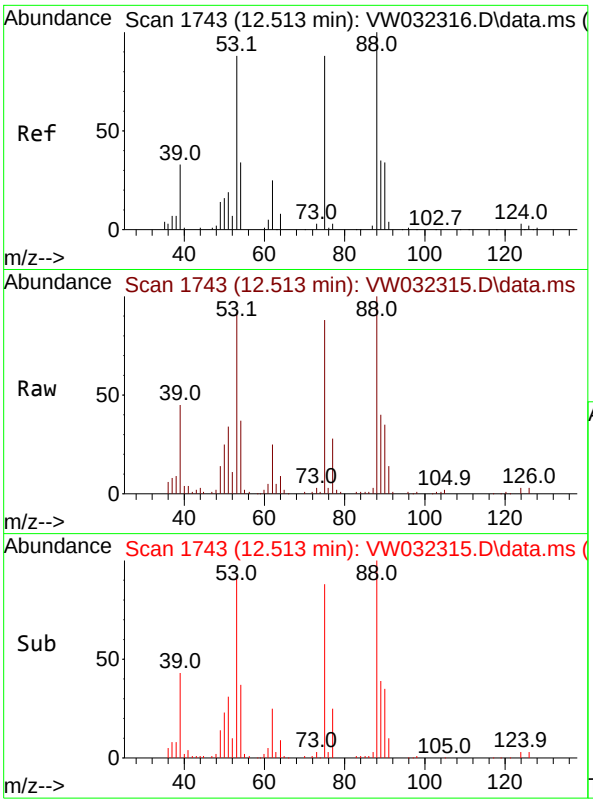


#80
1,3,5-Trimethylbenzene
Concen: 19.307 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:105 Resp: 276218

Ion	Ratio	Lower	Upper
105	100		
120	49.3	24.8	74.4

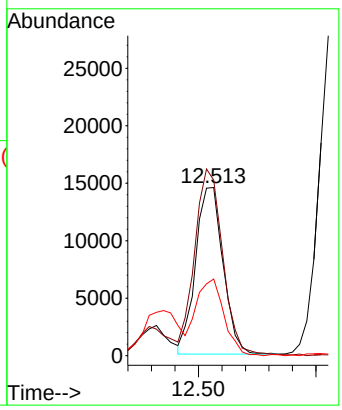




#81
trans-1,4-Dichloro-2-butene
Concen: 18.808 ug/l
RT: 12.513 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 75 Resp: 2362

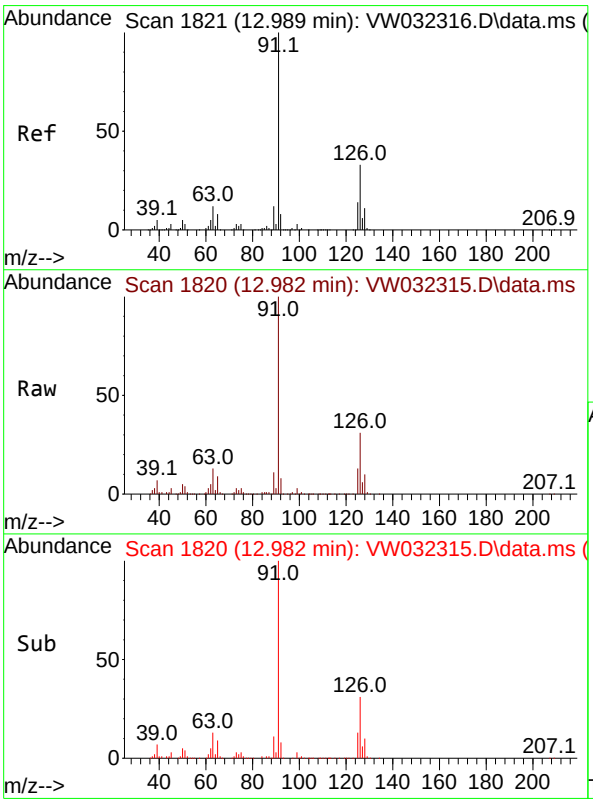
Ion	Ratio	Lower	Upper
75	100		
53	115.4	91.0	136.6
89	46.7	39.4	59.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

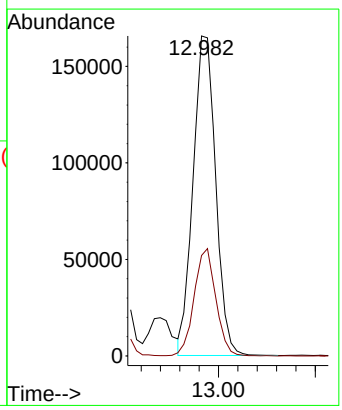
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

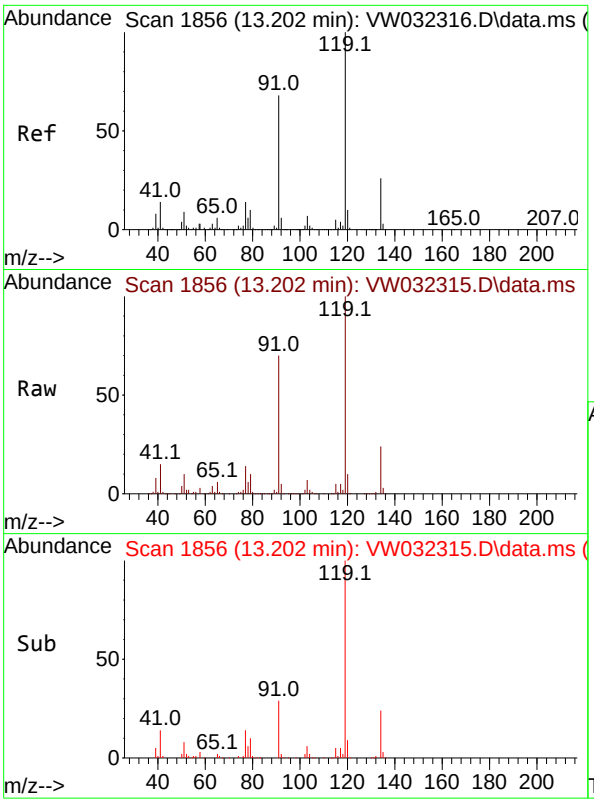


#82
4-Chlorotoluene
Concen: 20.002 ug/l
RT: 12.982 min Scan# 1820
Delta R.T. -0.007 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 91 Resp: 268736

Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.1	48.2





#83
tert-Butylbenzene
Concen: 19.685 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

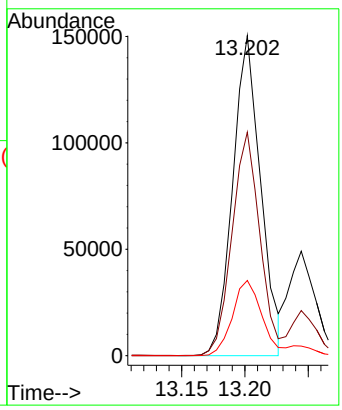
Tgt Ion:119 Resp: 23108

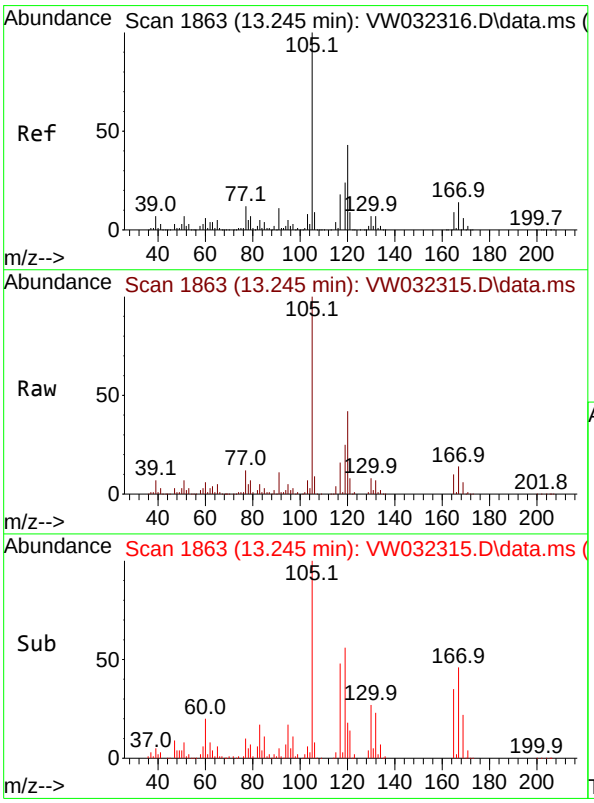
Ion	Ratio	Lower	Upper
119	100		
91	69.3	33.8	101.3
134	24.9	12.5	37.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

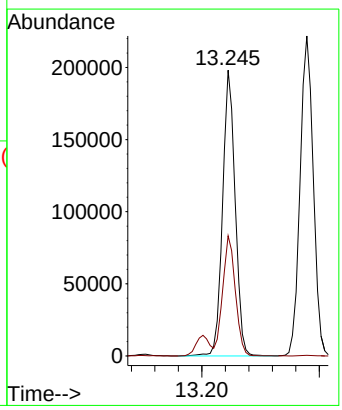


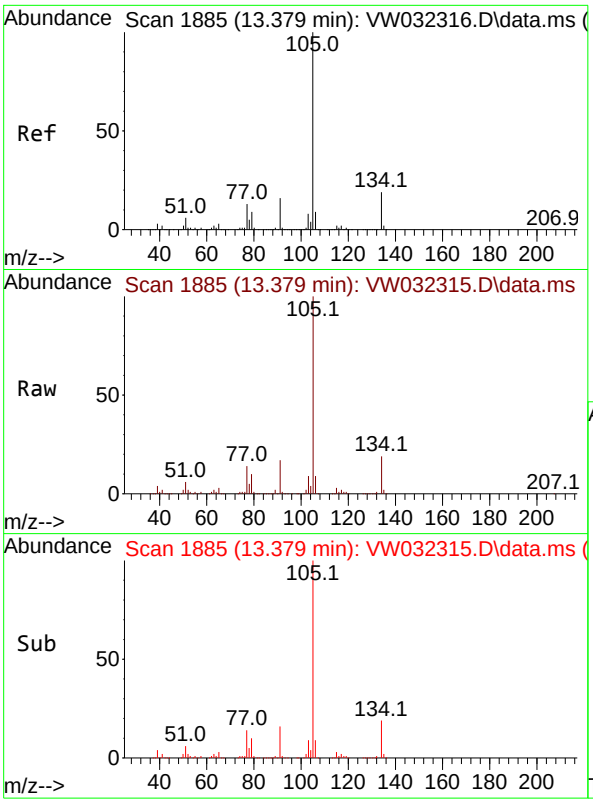


#84
1,2,4-Trimethylbenzene
Concen: 20.253 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:105 Resp: 294630

Ion	Ratio	Lower	Upper
105	100		
120	42.3	22.1	66.3





#85
sec-Butylbenzene
Concen: 19.209 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

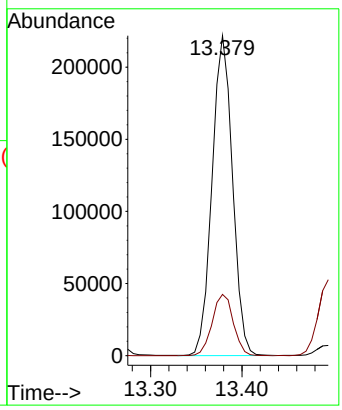
Tgt Ion:105 Resp: 34459

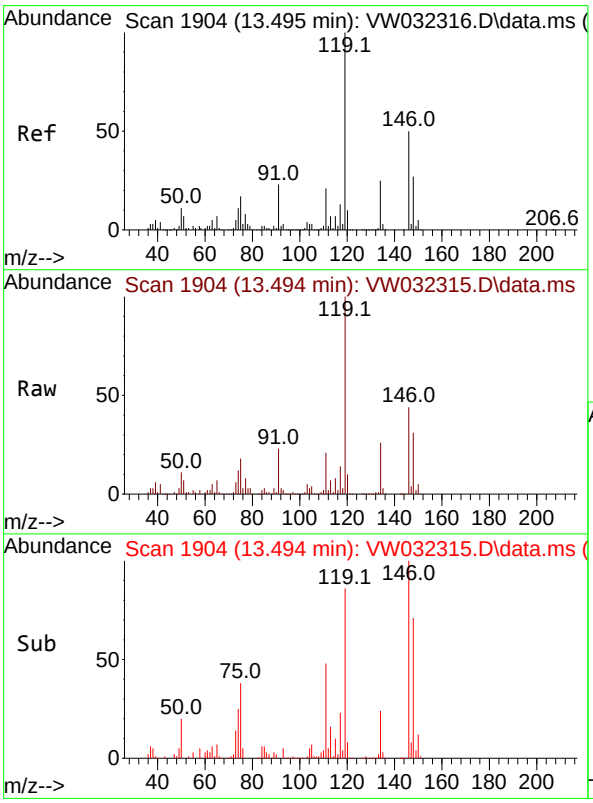
Ion	Ratio	Lower	Upper
105	100		
134	19.8	10.1	30.1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

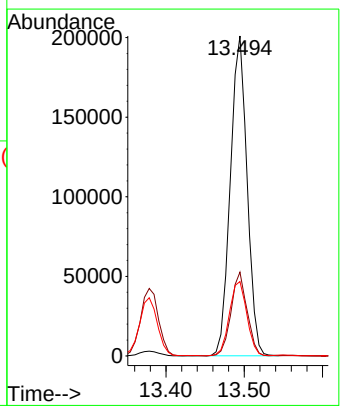


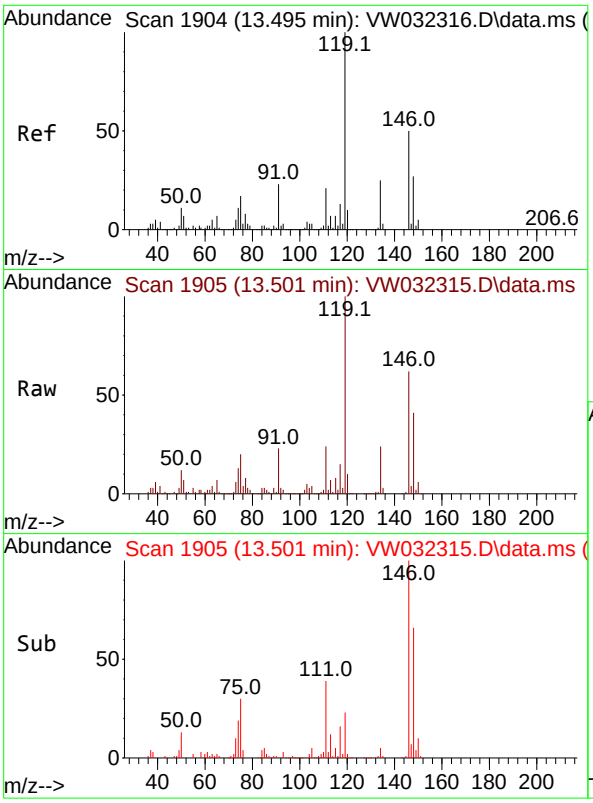


#86
p-Isopropyltoluene
Concen: 20.057 ug/l
RT: 13.494 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:119 Resp: 298543

Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.6	37.6
91	24.1	12.4	37.0

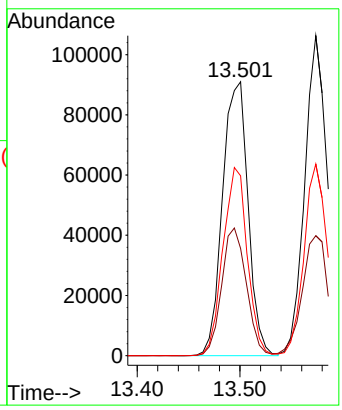




#87
1,3-Dichlorobenzene
Concen: 19.461 ug/l
RT: 13.501 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:146 Resp: 15716

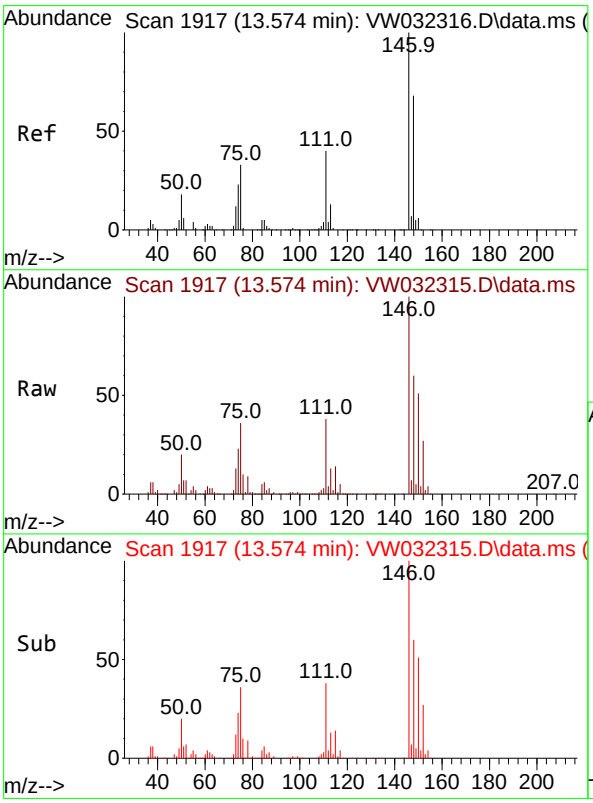
Ion	Ratio	Lower	Upper
146	100		
111	45.0	20.6	61.9
148	65.4	30.6	92.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

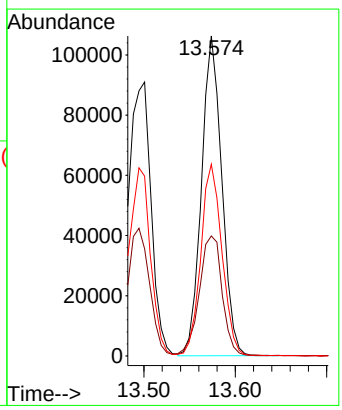
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

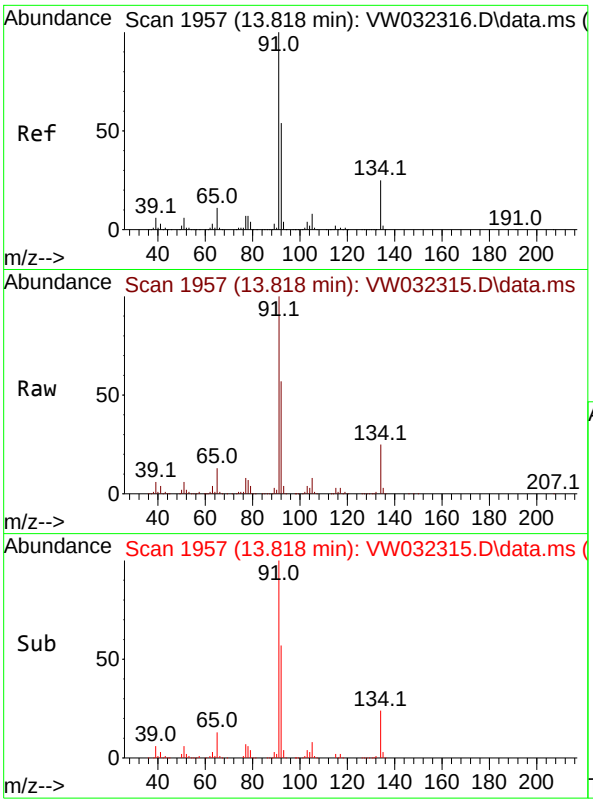


#88
1,4-Dichlorobenzene
Concen: 20.364 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:146 Resp: 164453

Ion	Ratio	Lower	Upper
146	100		
111	42.1	21.3	63.7
148	62.2	33.4	100.1

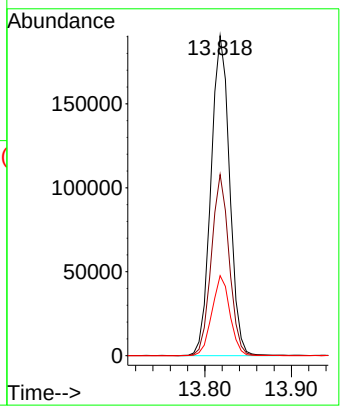




#89
n-Butylbenzene
Concen: 19.585 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 91 Resp: 28463

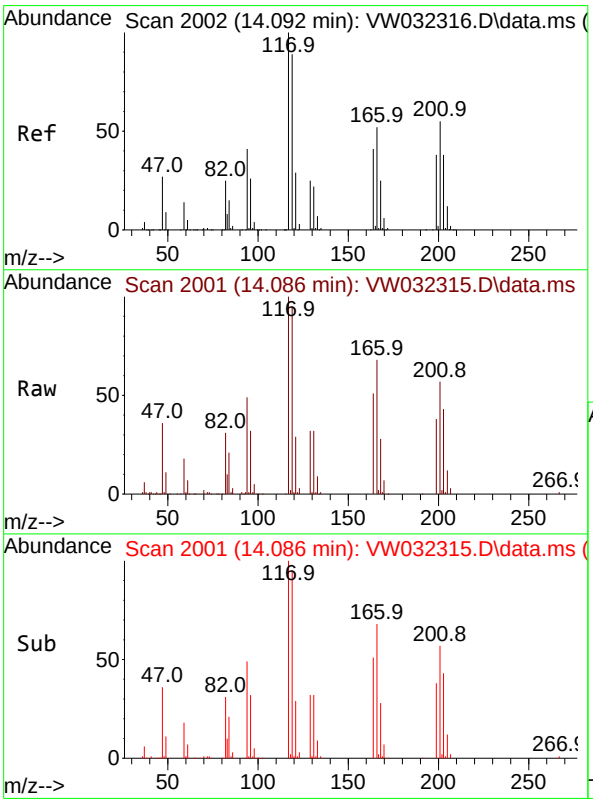
Ion	Ratio	Lower	Upper
91	100		
92	54.3	27.0	81.0
134	24.2	13.1	39.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

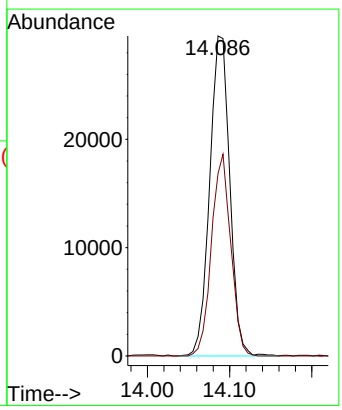
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

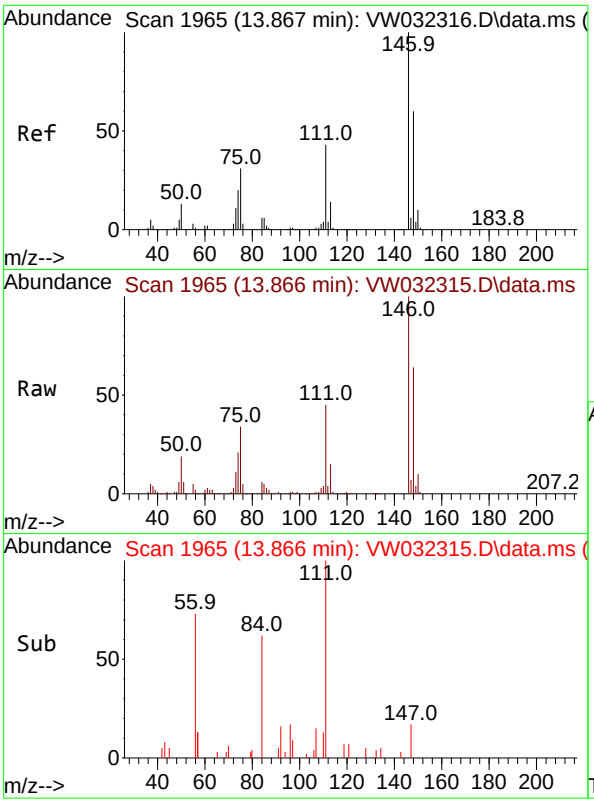


#90
Hexachloroethane
Concen: 18.779 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:117 Resp: 50102

Ion	Ratio	Lower	Upper
117	100		
201	60.5	32.8	98.4

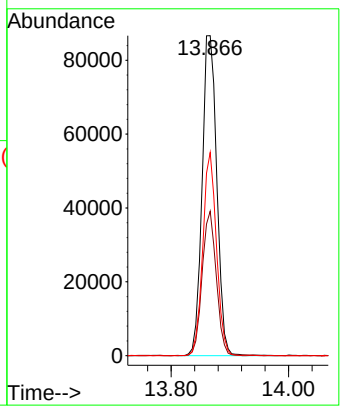




#91
1,2-Dichlorobenzene
Concen: 20.636 ug/l
RT: 13.866 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:146 Resp: 15065

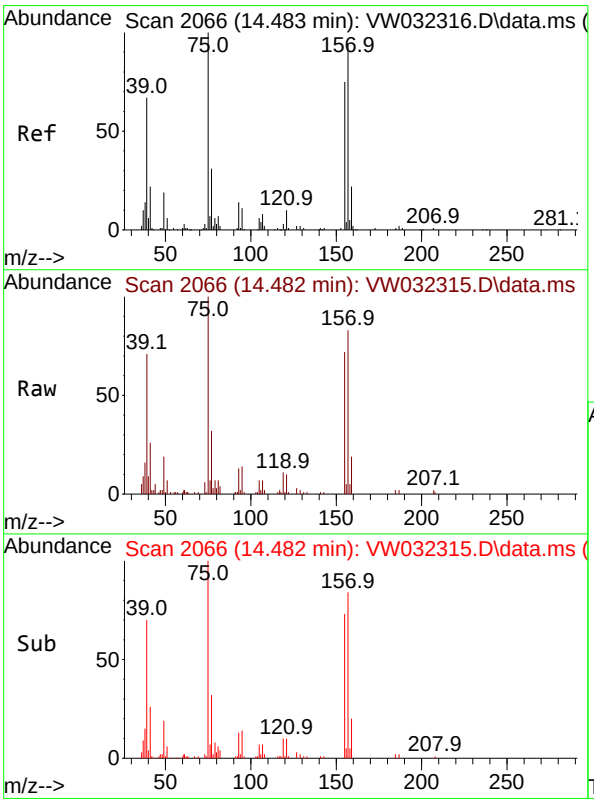
Ion	Ratio	Lower	Upper
146	100		
111	43.4	23.4	70.0
148	59.1	34.1	102.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

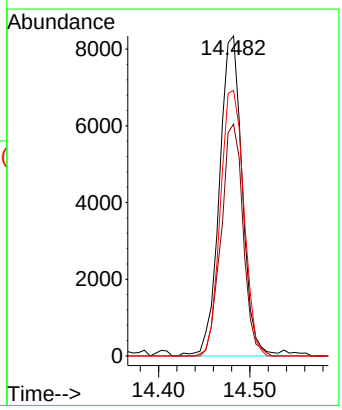
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

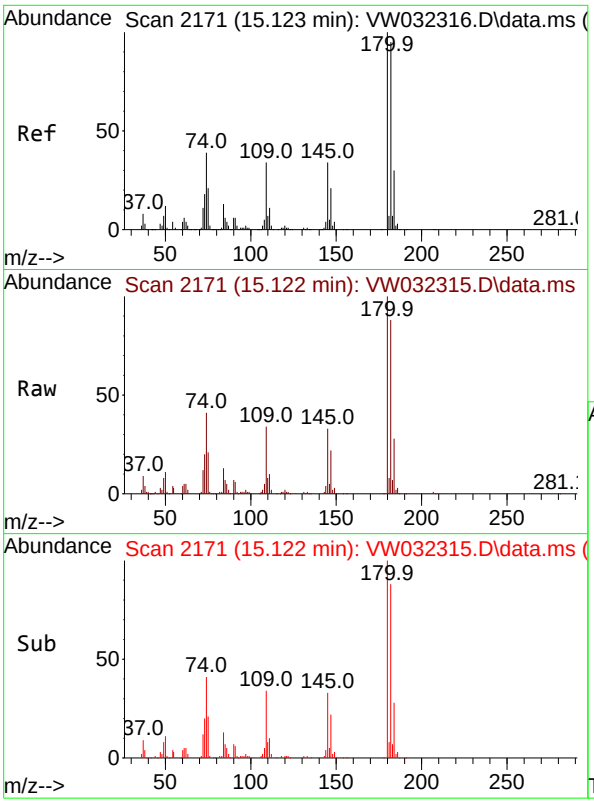


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.123 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion: 75 Resp: 14474

Ion	Ratio	Lower	Upper
75	100		
155	70.0	40.8	122.5
157	84.8	51.8	155.4

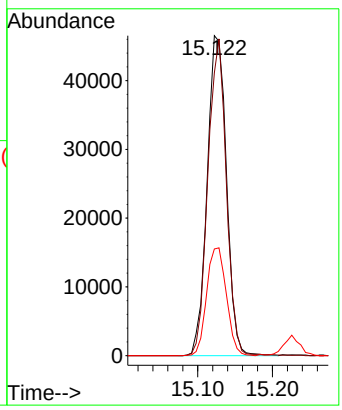




#93
1,2,4-Trichlorobenzene
Concen: 19.115 ug/l
RT: 15.122 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:180 Resp: 8368

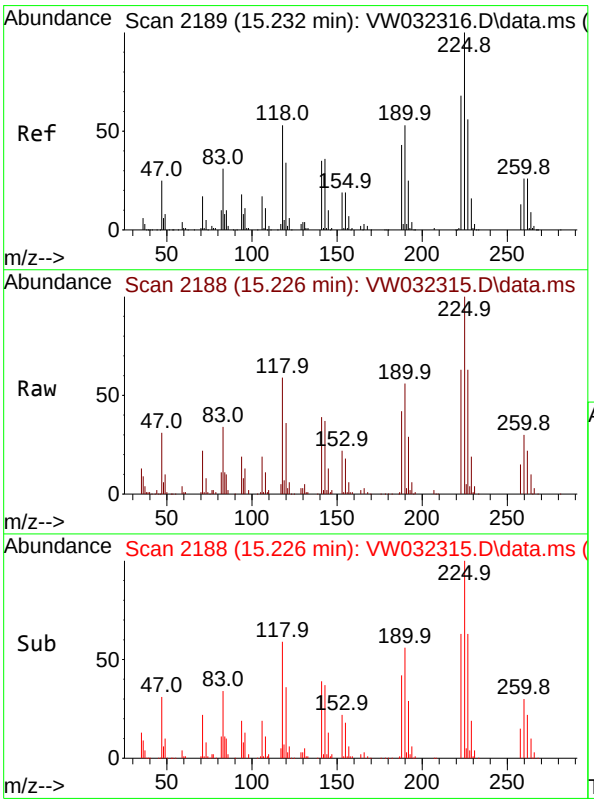
Ion	Ratio	Lower	Upper
180	100		
182	94.3	47.4	142.2
145	34.4	16.4	49.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

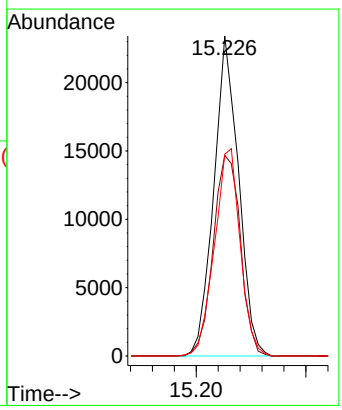
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

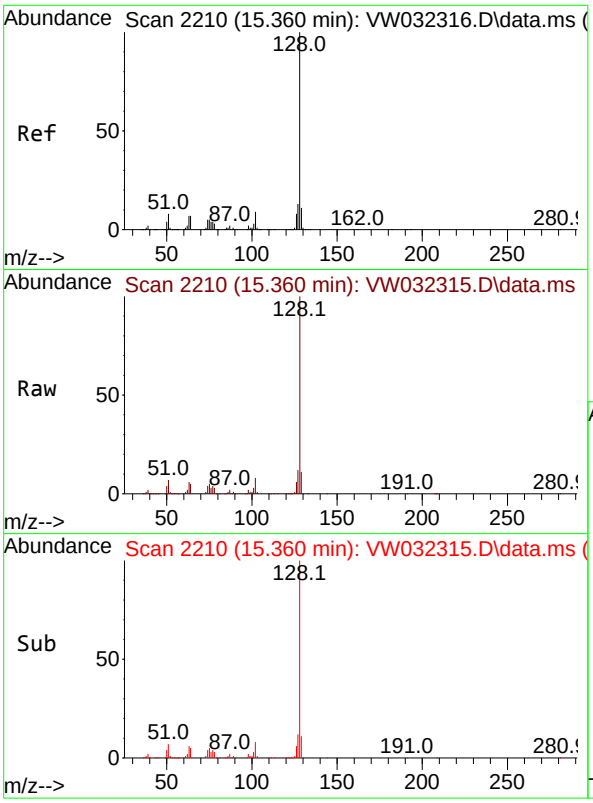


#94
Hexachlorobutadiene
Concen: 18.340 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:225 Resp: 36708

Ion	Ratio	Lower	Upper
225	100		
223	68.8	29.8	89.3
227	67.5	30.5	91.5

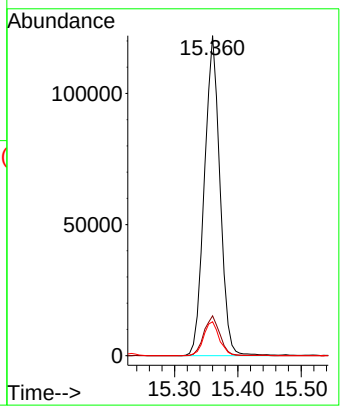




#95
Naphthalene
Concen: 19.889 ug/l
RT: 15.360 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:128 Resp: 20910

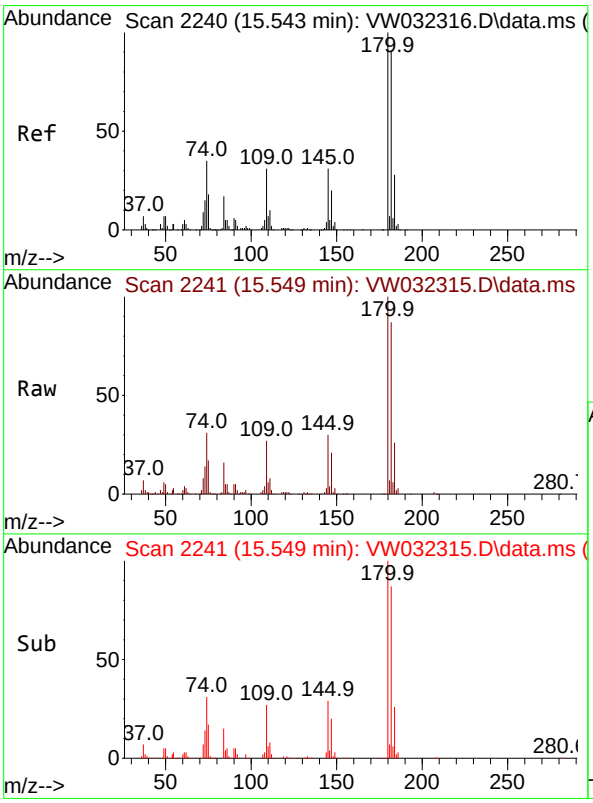
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.8	8.4	12.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

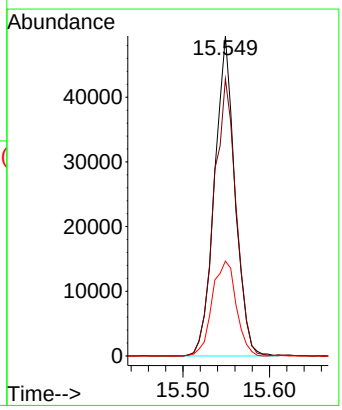
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.664 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.006 min
Lab File: VW032315.D
Acq: 01 Oct 2025 14:15

Tgt Ion:180 Resp: 81141

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.7	143.1
145	34.8	17.2	51.6



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032316.D
Acq On : 01 Oct 2025 14:37
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:15:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	289091	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	530255	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	489049	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	234466	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	200915	47.649	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 95.300%			
35) Dibromofluoromethane	7.904	113	162134	47.215	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 94.420%			
50) Toluene-d8	10.325	98	632778	49.927	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 99.860%			
62) 4-Bromofluorobenzene	12.617	95	237645	49.609	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 99.220%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	76397	42.113	ug/l	97
3) Chloromethane	2.253	50	120776	43.147	ug/l	97
4) Vinyl Chloride	2.405	62	153004	45.785	ug/l	98
5) Bromomethane	2.826	94	110413	44.960	ug/l	96
6) Chloroethane	2.966	64	102915	46.646	ug/l	95
7) Trichlorofluoromethane	3.308	101	120856	48.301	ug/l	96
8) Diethyl Ether	3.722	74	99427	45.858	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.106	101	134421	44.790	ug/l	92
10) Methyl Iodide	4.320	142	200360	46.790	ug/l	98
11) Tert butyl alcohol	5.222	59	70796	221.816	ug/l	97
12) 1,1-Dichloroethene	4.082	96	150540	46.204	ug/l	94
13) Acrolein	3.930	56	116224	224.375	ug/l	99
14) Allyl chloride	4.704	41	263294	47.845	ug/l	88
15) Acrylonitrile	5.405	53	270572	239.878	ug/l	98
16) Acetone	4.161	43	264513	226.556	ug/l	99
17) Carbon Disulfide	4.423	76	416819	46.888	ug/l	99
18) Methyl Acetate	4.710	43	180500	53.969	ug/l	97
19) Methyl tert-butyl Ether	5.460	73	308939	48.143	ug/l	97
20) Methylene Chloride	4.954	84	182336	46.839	ug/l	92
21) trans-1,2-Dichloroethene	5.460	96	170174	47.176	ug/l	98
22) Diisopropyl ether	6.344	45	548474	47.923	ug/l	93
23) Vinyl Acetate	6.283	43	1815632	237.512	ug/l	100
24) 1,1-Dichloroethane	6.246	63	327109	47.045	ug/l	99
25) 2-Butanone	7.191	43	378087	237.771	ug/l	97
26) 2,2-Dichloropropane	7.191	77	166572	46.834	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	207106	47.792	ug/l	94
28) Bromochloromethane	7.533	49	158249	48.374	ug/l	87
29) Tetrahydrofuran	7.551	42	247313	247.317	ug/l	94
30) Chloroform	7.697	83	331309	46.983	ug/l	99
31) Cyclohexane	7.971	56	263340	44.363	ug/l	98
32) 1,1,1-Trichloroethane	7.892	97	235925	47.214	ug/l	99
36) 1,1-Dichloropropene	8.093	75	232959	48.069	ug/l	97
37) Ethyl Acetate	7.276	43	153726	47.655	ug/l	99
38) Carbon Tetrachloride	8.081	117	213729	46.865	ug/l	95
39) Methylcyclohexane	9.343	83	276342	47.272	ug/l	97
40) Benzene	8.337	78	713410	46.964	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032316.D
Acq On : 01 Oct 2025 14:37
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 02 21:15:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	86799	49.929	ug/l		92
42) 1,2-Dichloroethane	8.410	62	234579	47.194	ug/l		100
43) Isopropyl Acetate	8.435	43	275836	48.202	ug/l		100
44) Trichloroethene	9.099	130	165466	46.519	ug/l		84
45) 1,2-Dichloropropane	9.374	63	180898	47.709	ug/l		100
46) Dibromomethane	9.465	93	111827	47.962	ug/l		94
47) Bromodichloromethane	9.654	83	254689	47.759	ug/l		97
48) Methyl methacrylate	9.441	41	137281	49.341	ug/l	#	92
49) 1,4-Dioxane	9.459	88	32650	1024.535	ug/l	#	94
51) 4-Methyl-2-Pentanone	10.215	43	825948	249.195	ug/l		99
52) Toluene	10.392	92	454566	48.052	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	253517	49.001	ug/l		99
54) cis-1,3-Dichloropropene	10.081	75	288719	48.447	ug/l		93
55) 1,1,2-Trichloroethane	10.788	97	148551	47.671	ug/l		97
56) Ethyl methacrylate	10.648	69	216484	49.633	ug/l		94
57) 1,3-Dichloropropane	10.934	76	264139	47.992	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	639919	275.675	ug/l		96
59) 2-Hexanone	10.971	43	581510	248.758	ug/l		99
60) Dibromochloromethane	11.129	129	172945	48.878	ug/l		96
61) 1,2-Dibromoethane	11.239	107	147146	48.427	ug/l		100
64) Tetrachloroethene	10.867	164	136139	46.522	ug/l		94
65) Chlorobenzene	11.660	112	502586	46.707	ug/l		96
66) 1,1,1,2-Tetrachloroethane	11.727	131	154835	46.199	ug/l		98
67) Ethyl Benzene	11.733	91	848140	47.287	ug/l		97
68) m/p-Xylenes	11.837	106	653426	94.476	ug/l		98
69) o-Xylene	12.166	106	311759	48.200	ug/l		100
70) Styrene	12.178	104	549550	48.664	ug/l		99
71) Bromoform	12.343	173	92293	48.043	ug/l	#	100
73) Isopropylbenzene	12.465	105	780146	48.634	ug/l		100
74) N-amyl acetate	12.269	43	249273	48.711	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.715	83	189461	47.568	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	141741m	45.812	ug/l		
77) Bromobenzene	12.745	156	191637	49.560	ug/l		90
78) n-propylbenzene	12.800	91	961286	47.974	ug/l		97
79) 2-Chlorotoluene	12.891	91	590868	48.227	ug/l		100
80) 1,3,5-Trimethylbenzene	12.940	105	682722	49.221	ug/l		96
81) trans-1,4-Dichloro-2-b...	12.513	75	62771	51.537	ug/l		91
82) 4-Chlorotoluene	12.989	91	621247	47.694	ug/l		99
83) tert-Butylbenzene	13.202	119	552559	48.551	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	695101	49.283	ug/l		100
85) sec-Butylbenzene	13.379	105	836597	48.102	ug/l		96
86) p-Isopropyltoluene	13.495	119	703465	48.747	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	375062	47.901	ug/l		98
88) 1,4-Dichlorobenzene	13.574	146	362915	46.354	ug/l		99
89) n-Butylbenzene	13.818	91	677726	48.100	ug/l		99
90) Hexachloroethane	14.092	117	122267	47.269	ug/l		90
91) 1,2-Dichlorobenzene	13.867	146	328681	46.437	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.483	75	34323	49.219	ug/l		87
93) 1,2,4-Trichlorobenzene	15.123	180	195251	46.003	ug/l		96
94) Hexachlorobutadiene	15.232	225	84805	43.703	ug/l		96
95) Naphthalene	15.360	128	514556	50.483	ug/l		99
96) 1,2,3-Trichlorobenzene	15.543	180	189852	47.458	ug/l		97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032316.D
Acq On : 01 Oct 2025 14:37
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:15:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

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

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

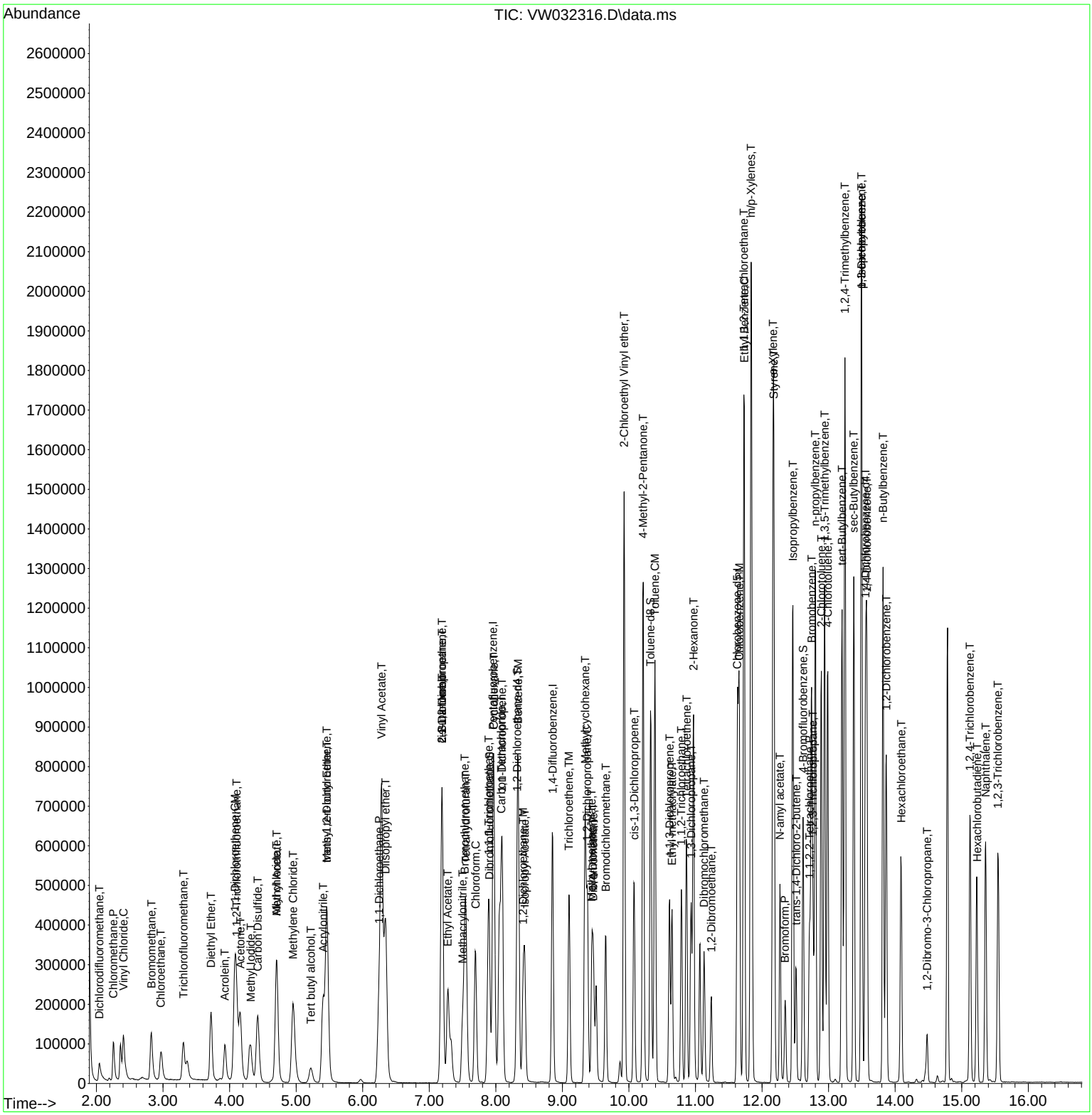
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032316.D
Acq On : 01 Oct 2025 14:37
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

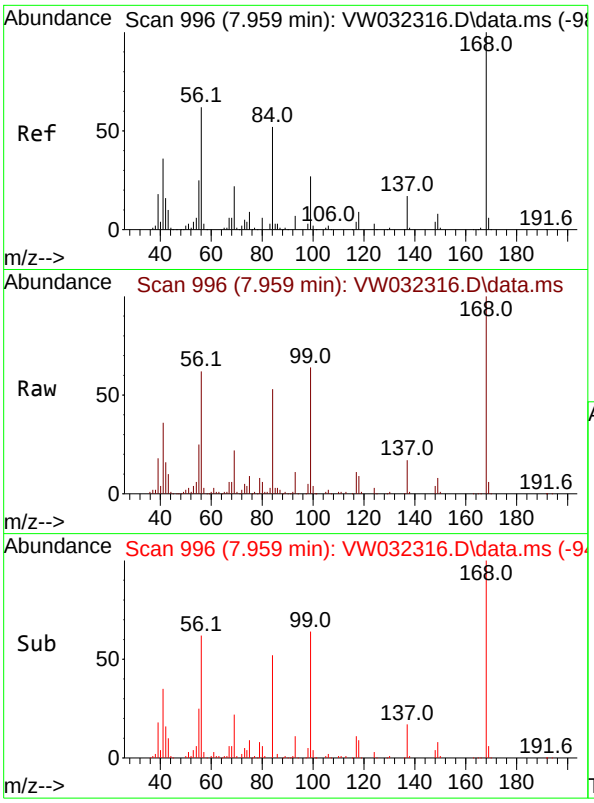
Quant Time: Oct 02 21:15:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

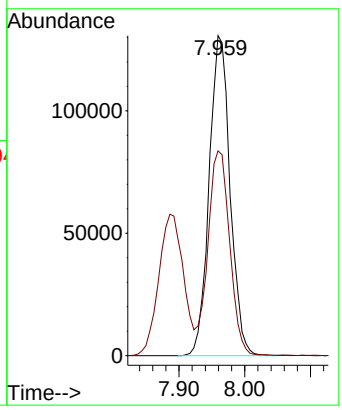
Tgt Ion:168 Resp: 28909

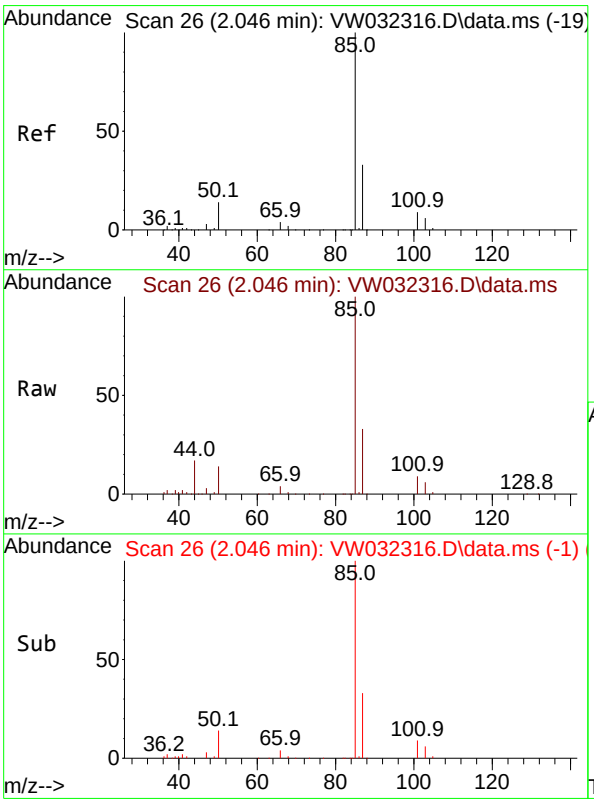
Ion	Ratio	Lower	Upper
168	100		
99	63.9	49.3	73.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

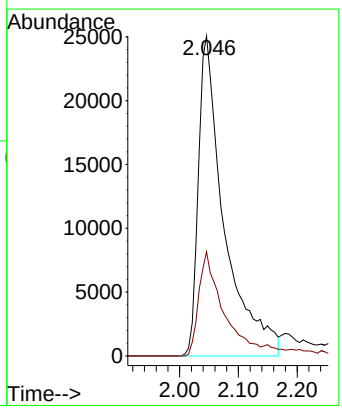


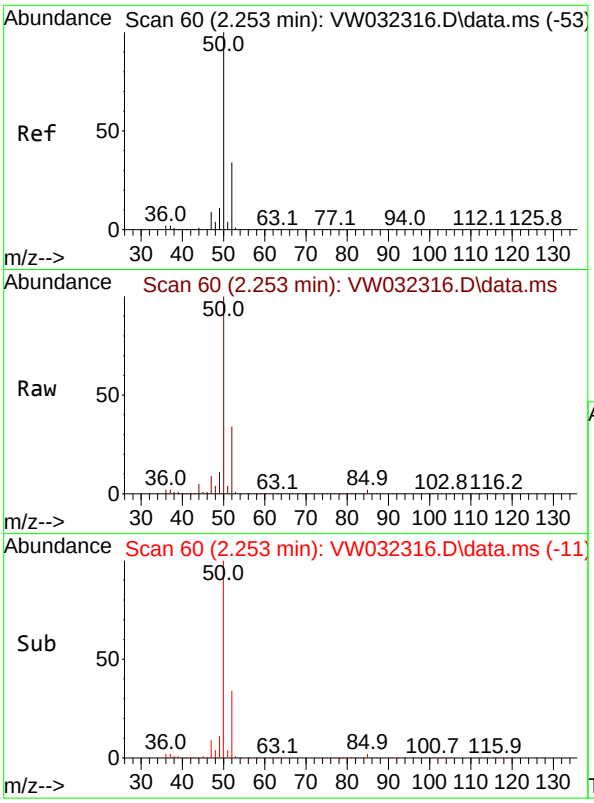


#2
Dichlorodifluoromethane
Concen: 42.113 ug/l
RT: 2.046 min Scan# 26
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 85 Resp: 76397

Ion	Ratio	Lower	Upper
85	100		
87	32.5	17.2	51.6

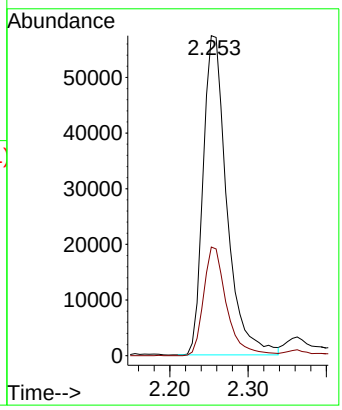




#3
Chloromethane
Concen: 43.147 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 50 Resp: 12077

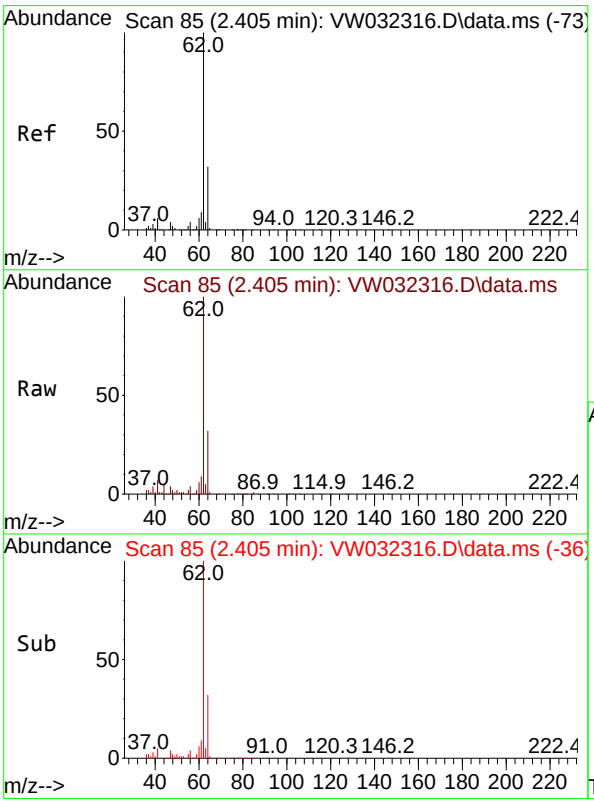
Ion	Ratio	Lower	Upper
50	100		
52	34.0	26.1	39.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

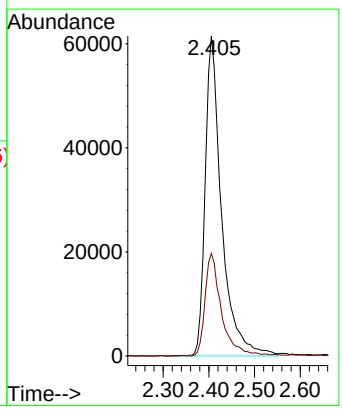
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

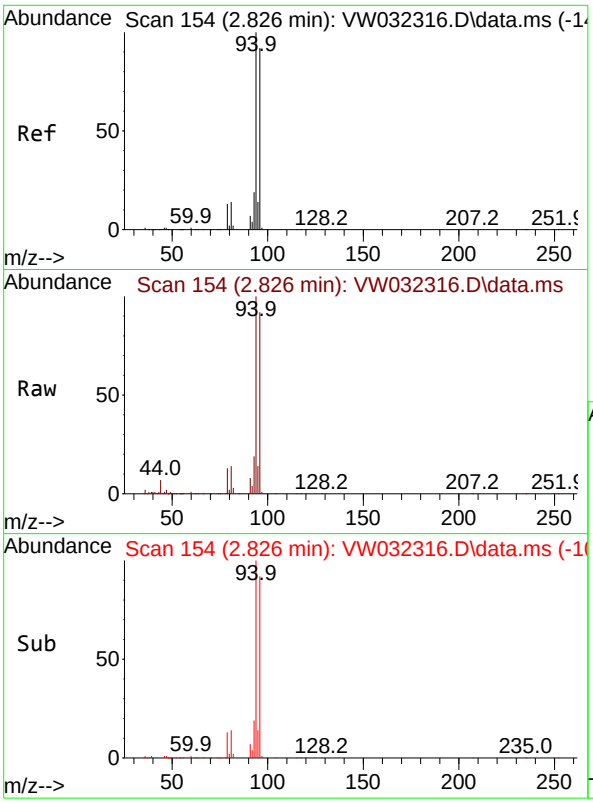


#4
Vinyl Chloride
Concen: 45.785 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 62 Resp: 153004

Ion	Ratio	Lower	Upper
62	100		
64	31.9	24.8	37.2

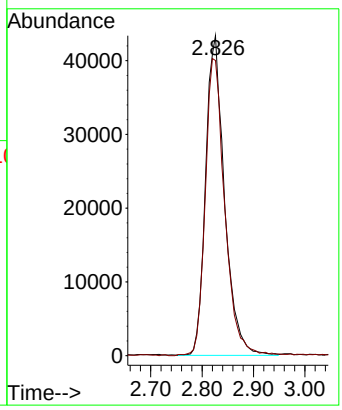




#5
Bromomethane
Concen: 44.960 ug/l
RT: 2.826 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 94 Resp: 11041

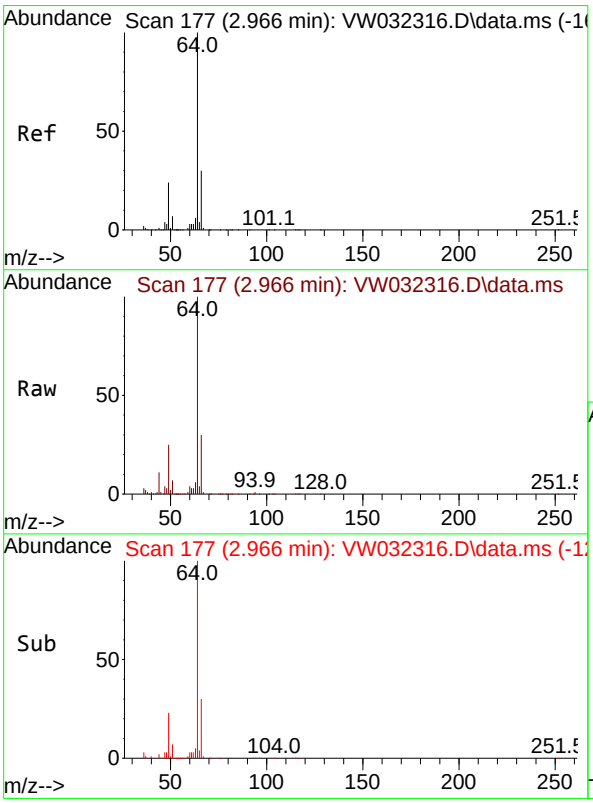
Ion	Ratio	Lower	Upper
94	100		
96	92.0	76.6	115.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

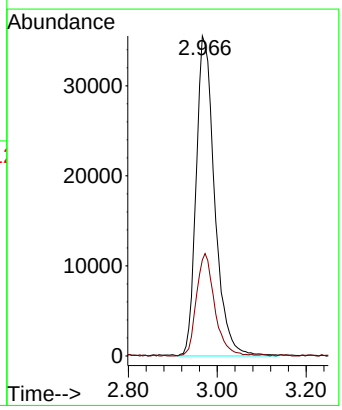
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

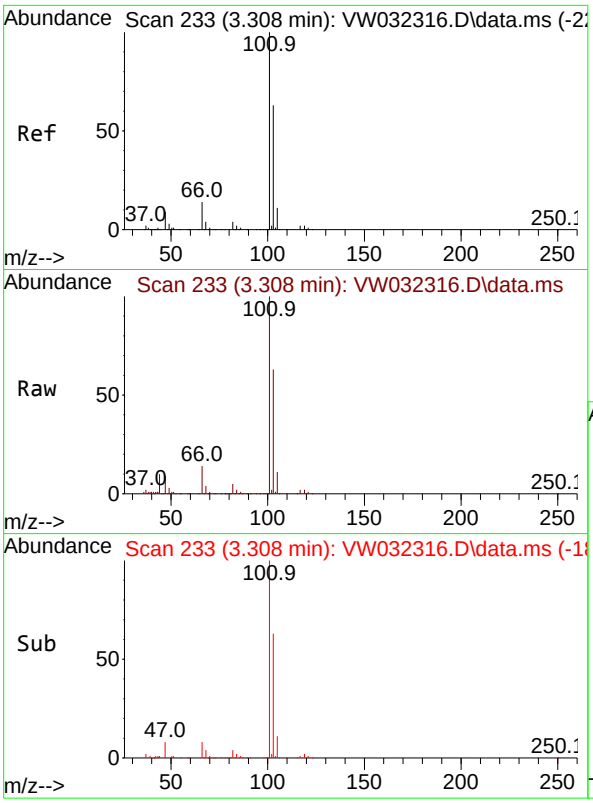


#6
Chloroethane
Concen: 46.646 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 64 Resp: 102915

Ion	Ratio	Lower	Upper
64	100		
66	29.9	26.2	39.4

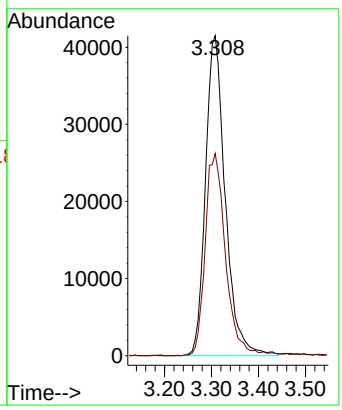




#7
Trichlorofluoromethane
Concen: 48.301 ug/l
RT: 3.308 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:101 Resp: 12085

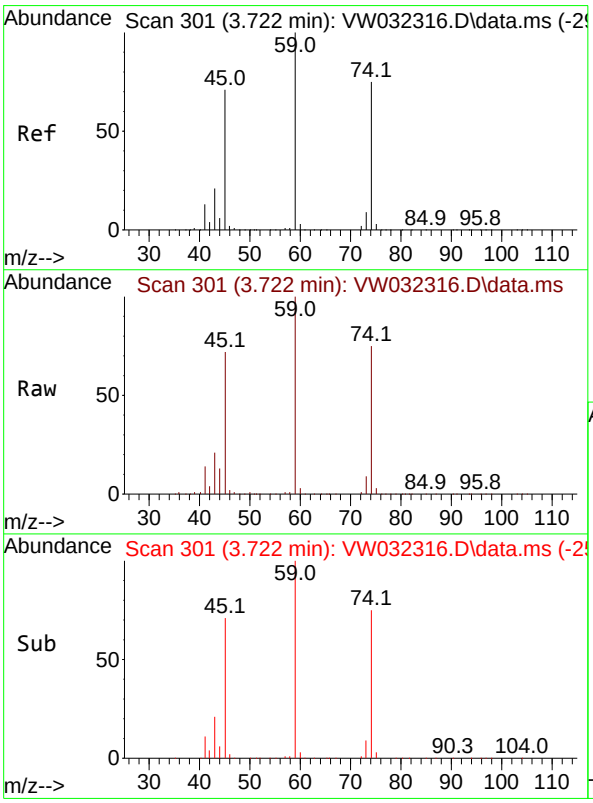
Ion	Ratio	Lower	Upper
101	100		
103	63.0	47.8	71.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

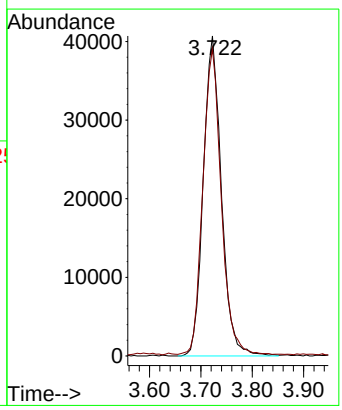
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

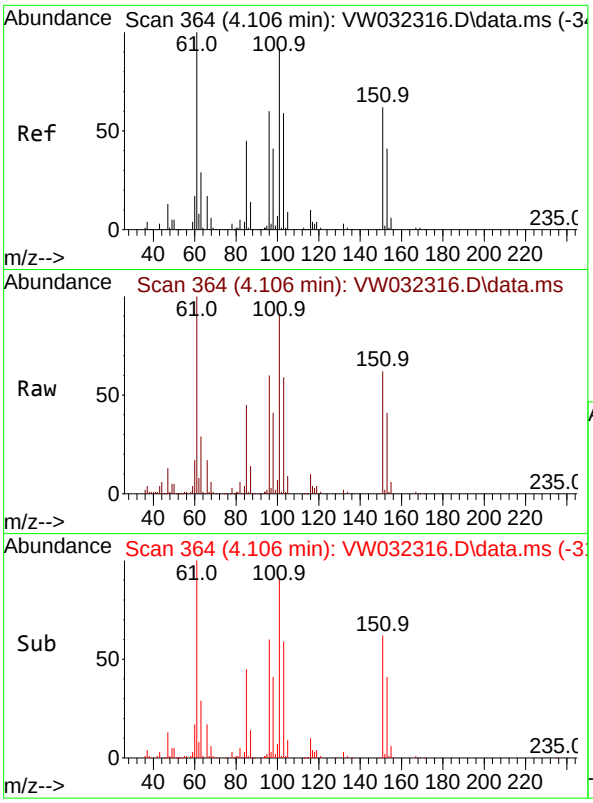


#8
Diethyl Ether
Concen: 45.858 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 74 Resp: 99427

Ion	Ratio	Lower	Upper
74	100		
45	96.7	43.1	129.4





#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.790 ug/l
RT: 4.106 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

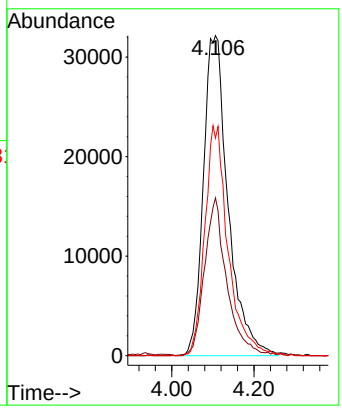
Tgt Ion:101 Resp: 13442

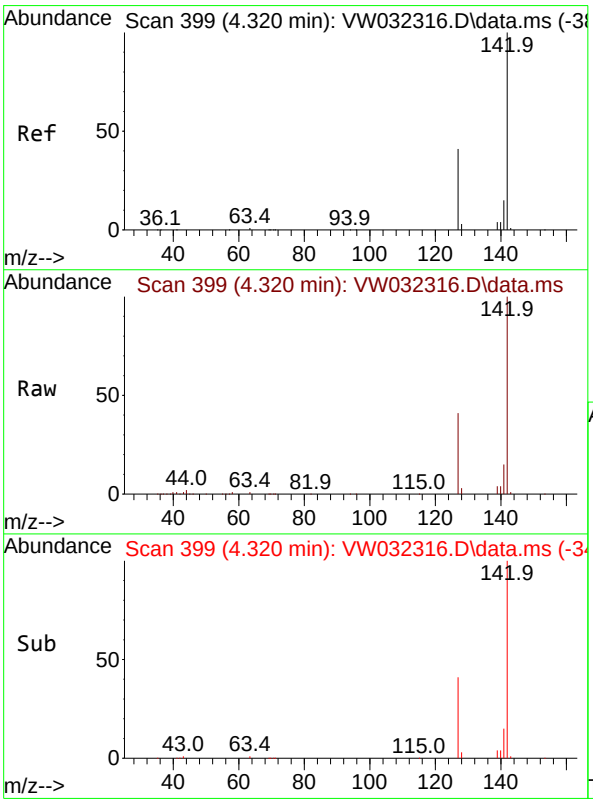
Ion	Ratio	Lower	Upper
101	100		
85	44.5	37.1	55.7
151	67.7	61.5	92.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

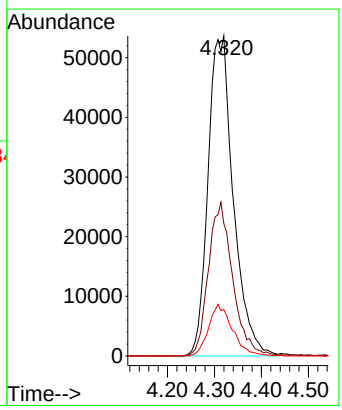


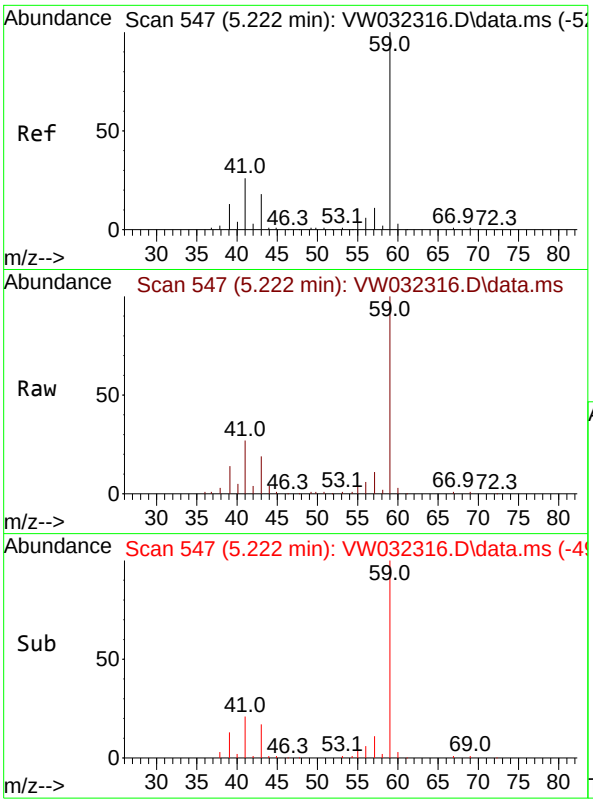


#10
Methyl Iodide
Concen: 46.790 ug/l
RT: 4.320 min Scan# 399
Delta R.T. 0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:142 Resp: 200360

Ion	Ratio	Lower	Upper
142	100		
127	46.1	38.2	57.2
141	15.3	12.2	18.2

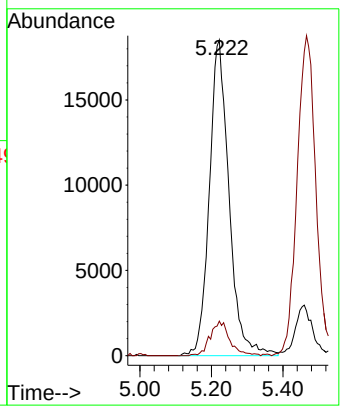




#11
Tert butyl alcohol
Concen: 221.816 ug/l
RT: 5.222 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 59 Resp: 7079

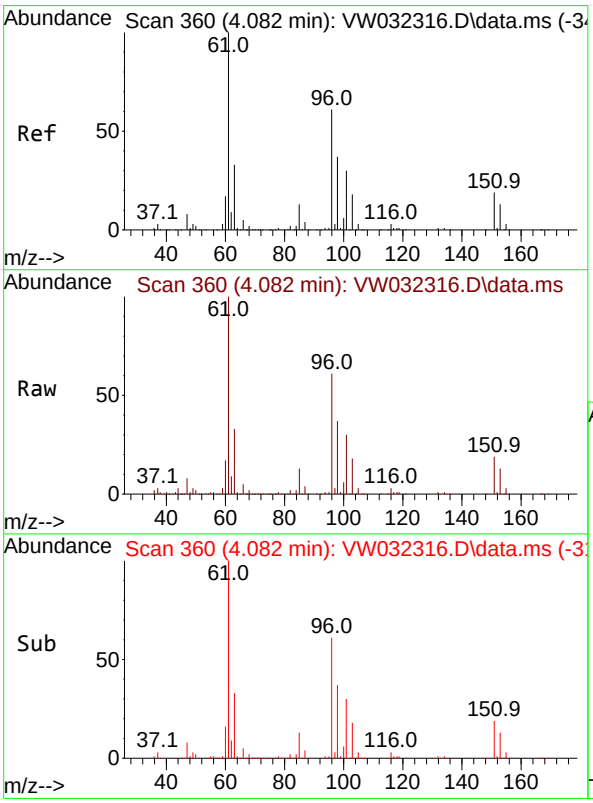
Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.8	14.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

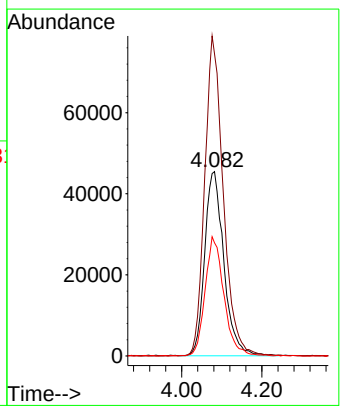
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

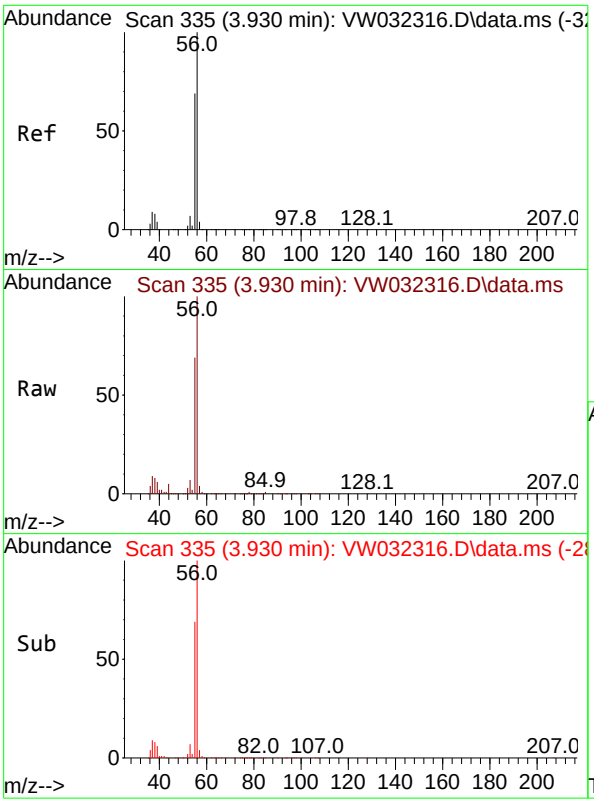


#12
1,1-Dichloroethene
Concen: 46.204 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 96 Resp: 150540

Ion	Ratio	Lower	Upper
96	100		
61	163.9	123.0	184.4
98	61.4	48.5	72.7

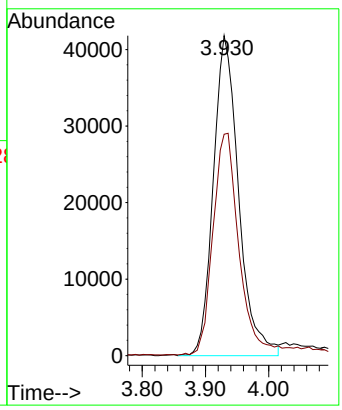




#13
Acrolein
Concen: 224.375 ug/l
RT: 3.930 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 56 Resp: 11622

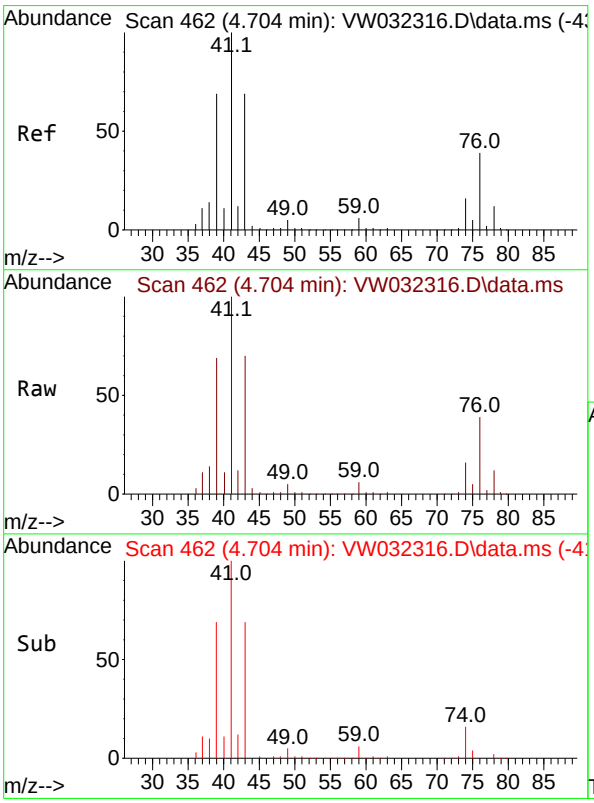
Ion	Ratio	Lower	Upper
56	100		
55	71.0	56.4	84.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

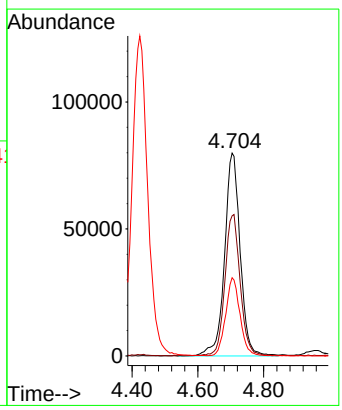
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

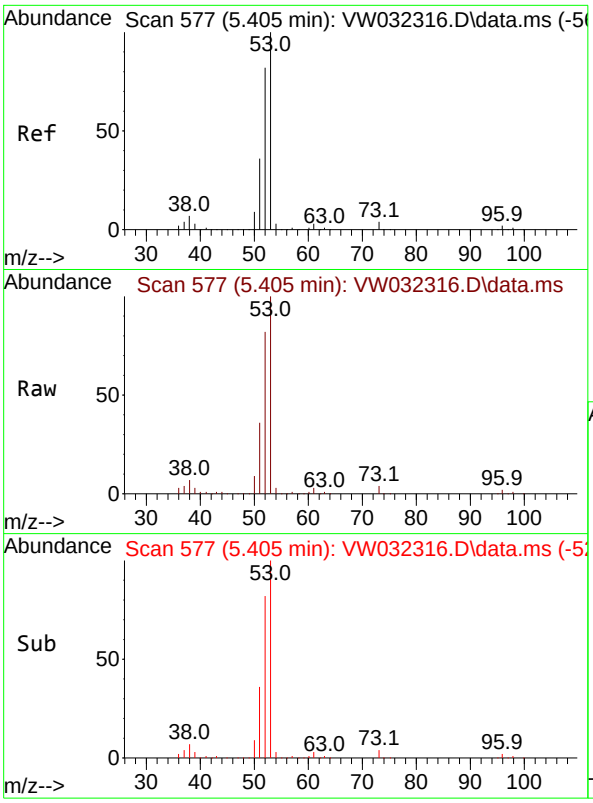


#14
Allyl chloride
Concen: 47.845 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 41 Resp: 263294

Ion	Ratio	Lower	Upper
41	100		
39	67.8	64.1	96.1
76	35.3	31.4	47.2





#15
Acrylonitrile
Concen: 239.878 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

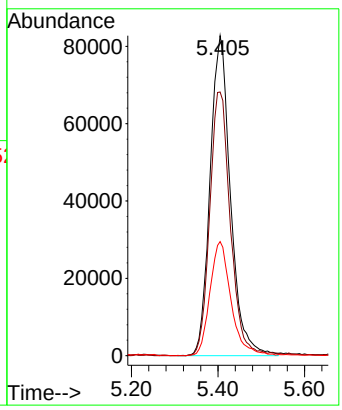
Tgt Ion: 53 Resp: 27057

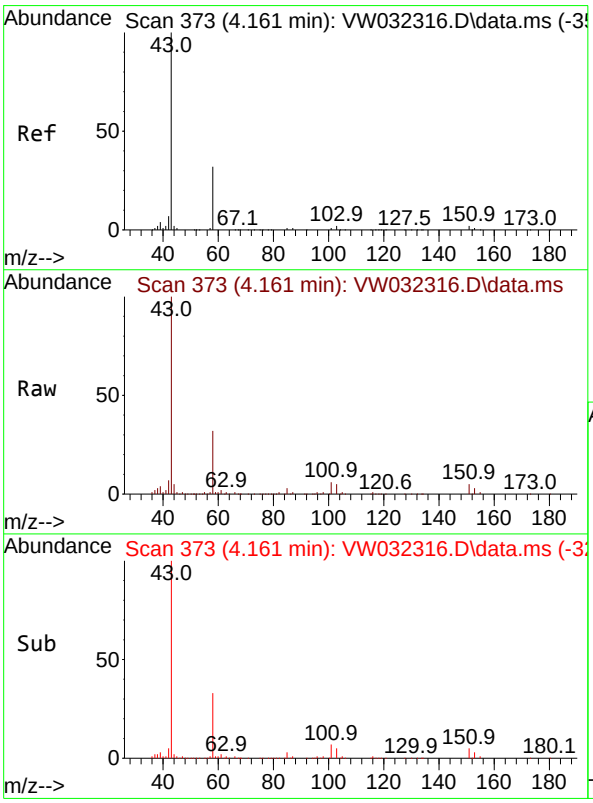
Ion	Ratio	Lower	Upper
53	100		
52	83.0	67.4	101.2
51	36.9	30.3	45.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

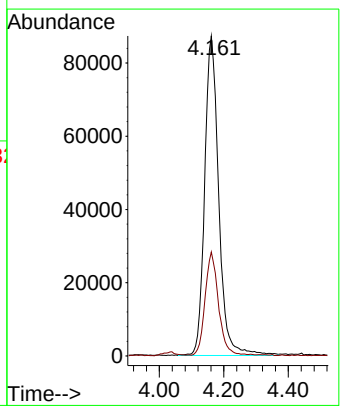


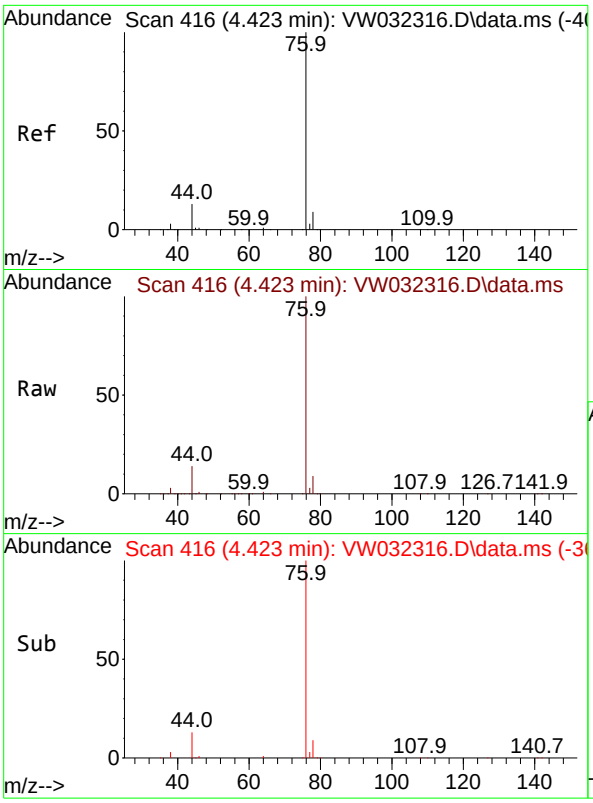


#16
Acetone
Concen: 226.556 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 43 Resp: 264513

Ion	Ratio	Lower	Upper
43	100		
58	32.4	25.3	37.9

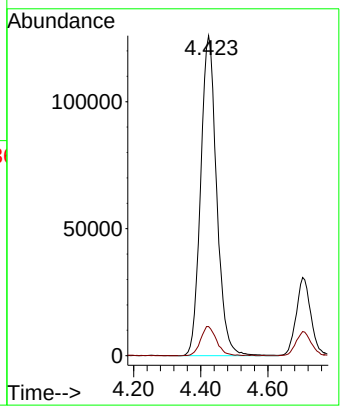




#17
Carbon Disulfide
Concen: 46.888 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 76 Resp: 41681

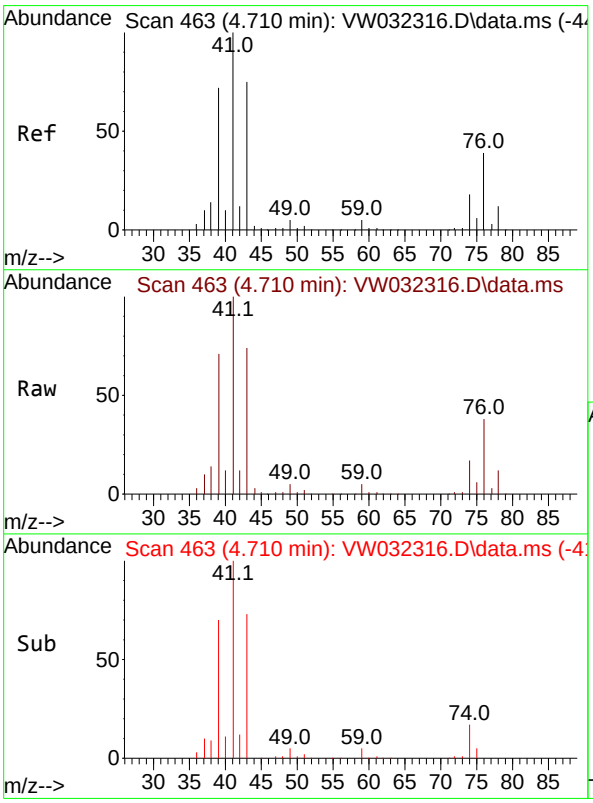
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

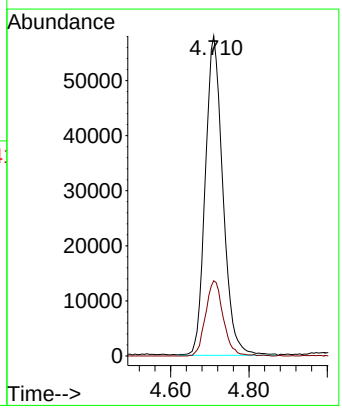
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

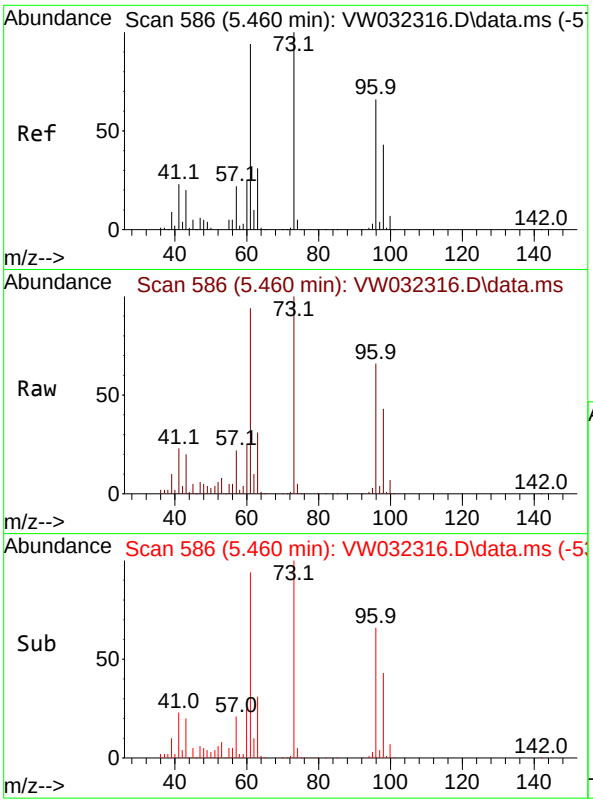


#18
Methyl Acetate
Concen: 53.969 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 43 Resp: 180500

Ion	Ratio	Lower	Upper
43	100		
74	23.6	20.2	30.4

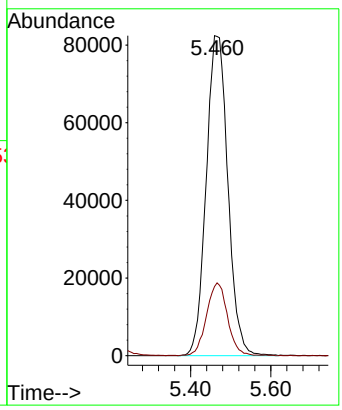




#19
Methyl tert-butyl Ether
Concen: 48.143 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 73 Resp: 30893

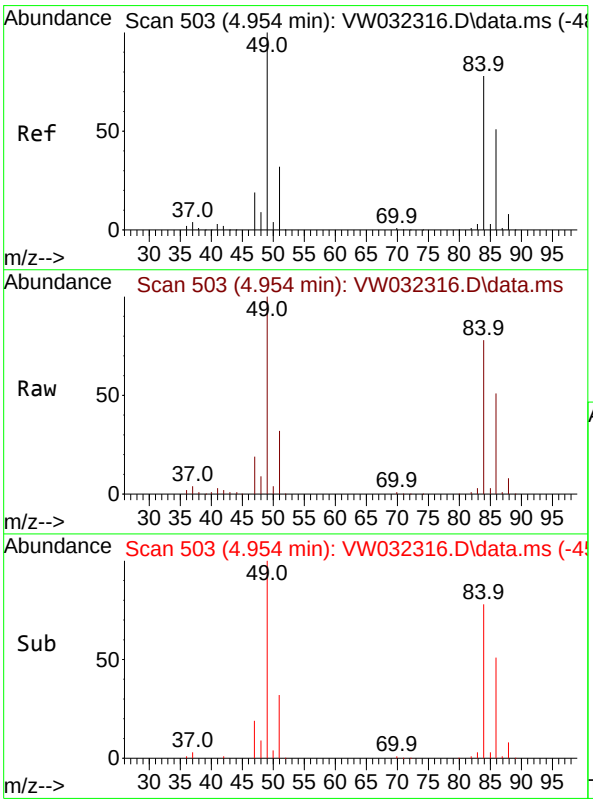
Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.2	24.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

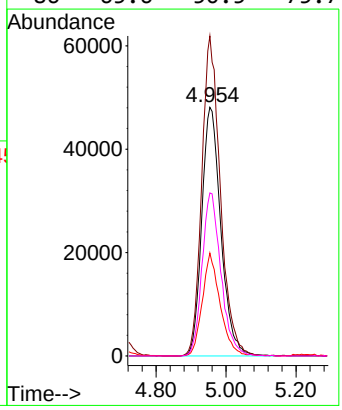
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

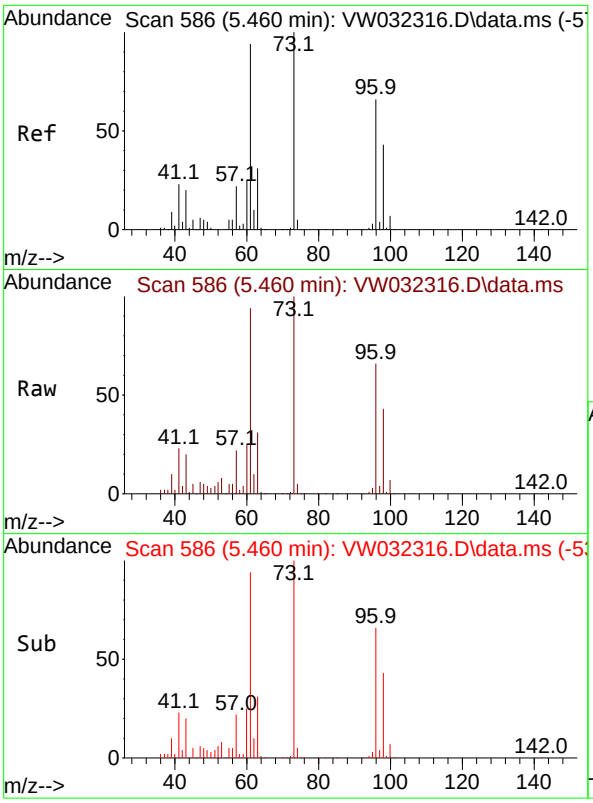


#20
Methylene Chloride
Concen: 46.839 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 84 Resp: 182336

Ion	Ratio	Lower	Upper
84	100		
49	128.7	92.2	138.4
51	41.4	31.0	46.6
86	65.6	50.5	75.7

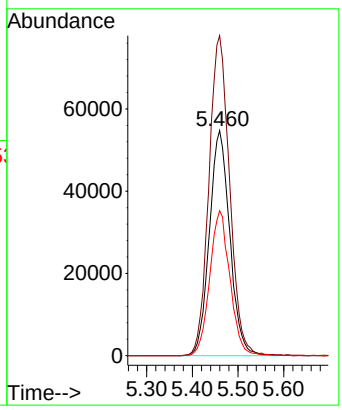




#21
trans-1,2-Dichloroethene
Concen: 47.176 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 96 Resp: 17017

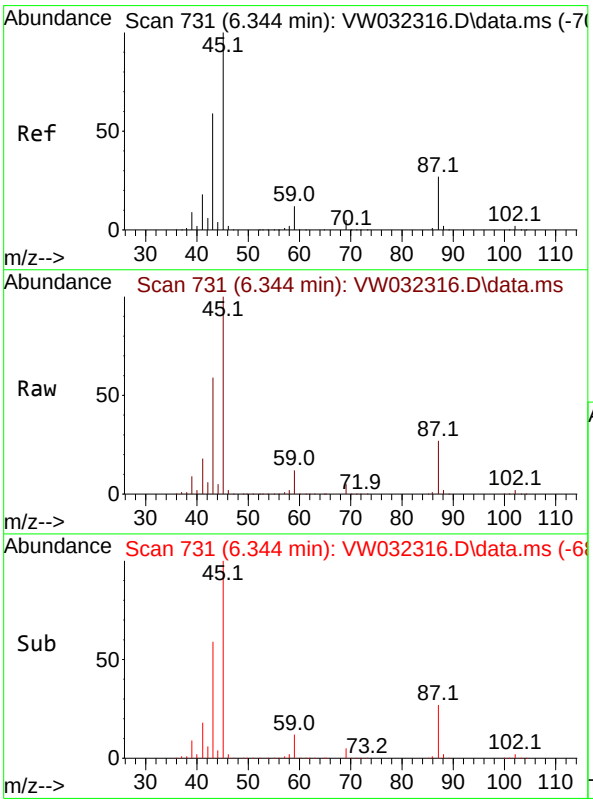
Ion	Ratio	Lower	Upper
96	100		
61	142.1	112.5	168.7
98	64.4	54.2	81.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

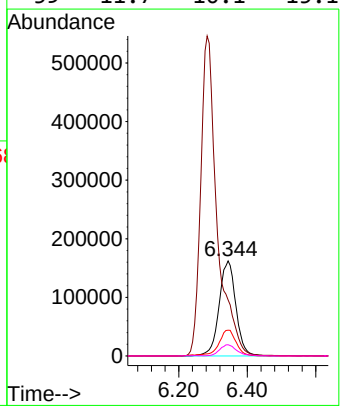
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

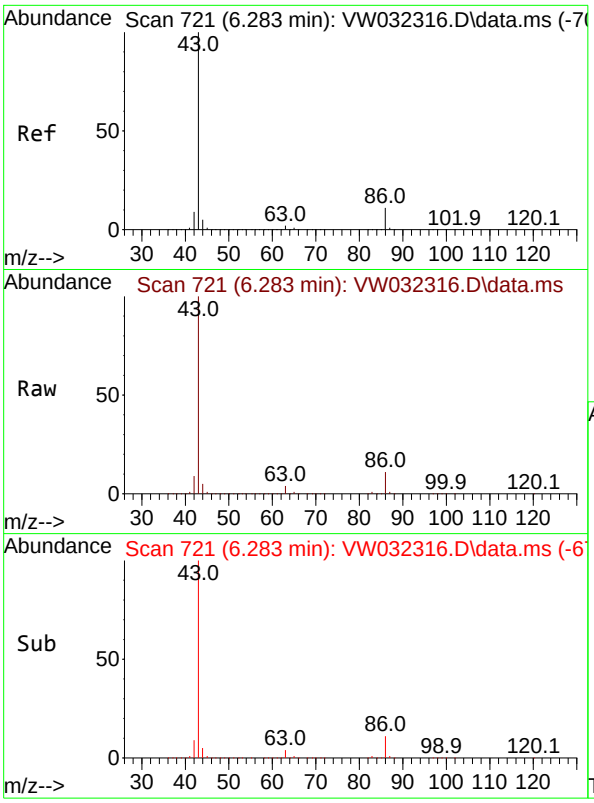


#22
Diisopropyl ether
Concen: 47.923 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 45 Resp: 548474

Ion	Ratio	Lower	Upper
45	100		
43	58.8	51.4	77.2
87	27.1	25.9	38.9
59	11.7	10.1	15.1

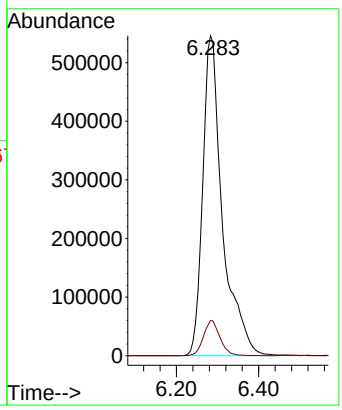




#23
Vinyl Acetate
Concen: 237.512 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 43 Resp: 181563

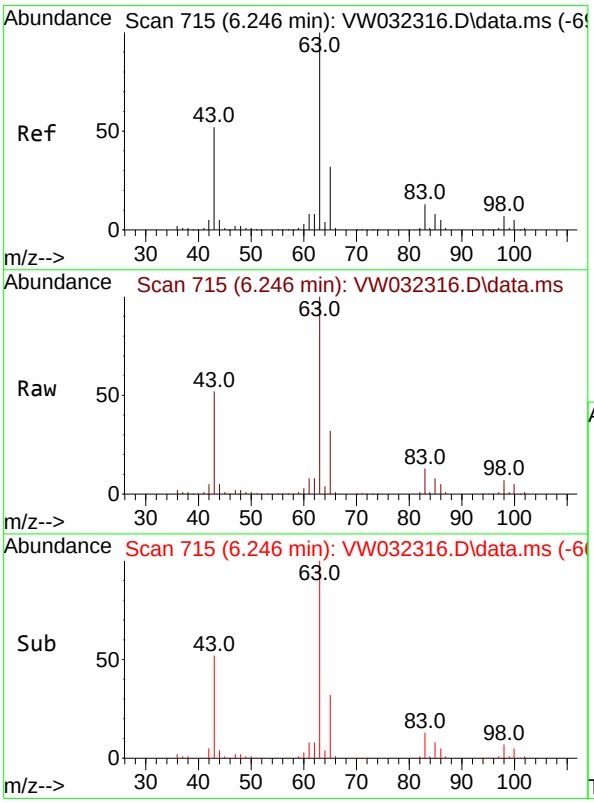
Ion	Ratio	Lower	Upper
43	100		
86	11.0	8.8	13.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

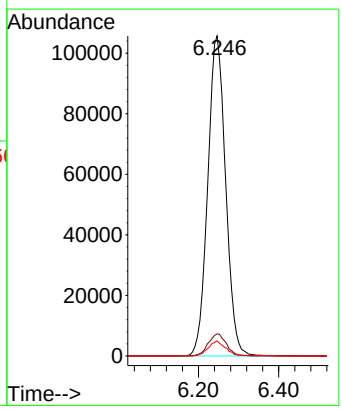
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

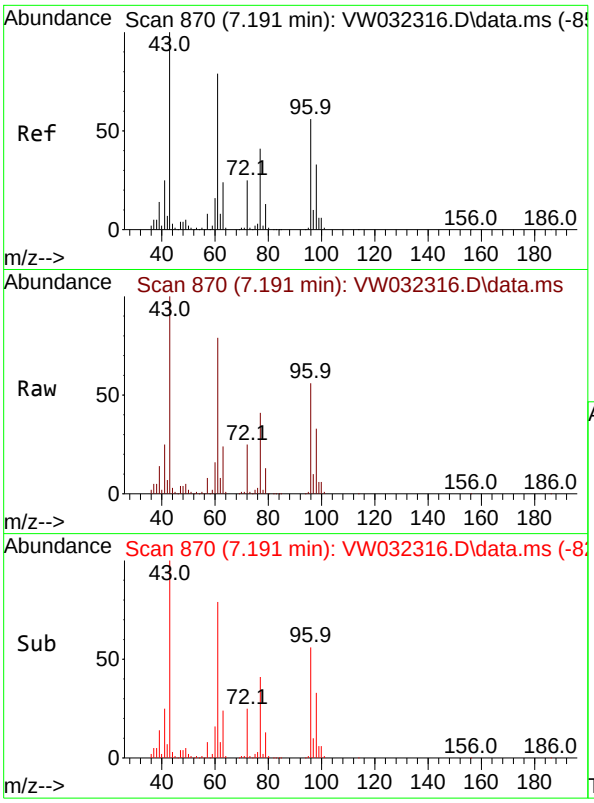


#24
1,1-Dichloroethane
Concen: 47.045 ug/l
RT: 6.246 min Scan# 715
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 63 Resp: 327109

Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.8	11.2
100	4.7	2.5	7.5

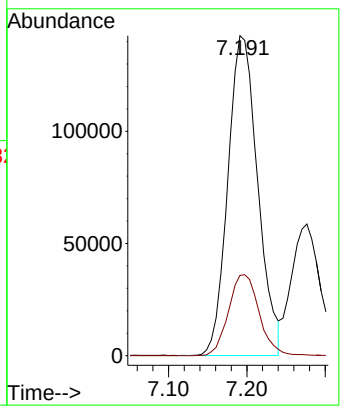




#25
2-Butanone
Concen: 237.771 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 43 Resp: 37808

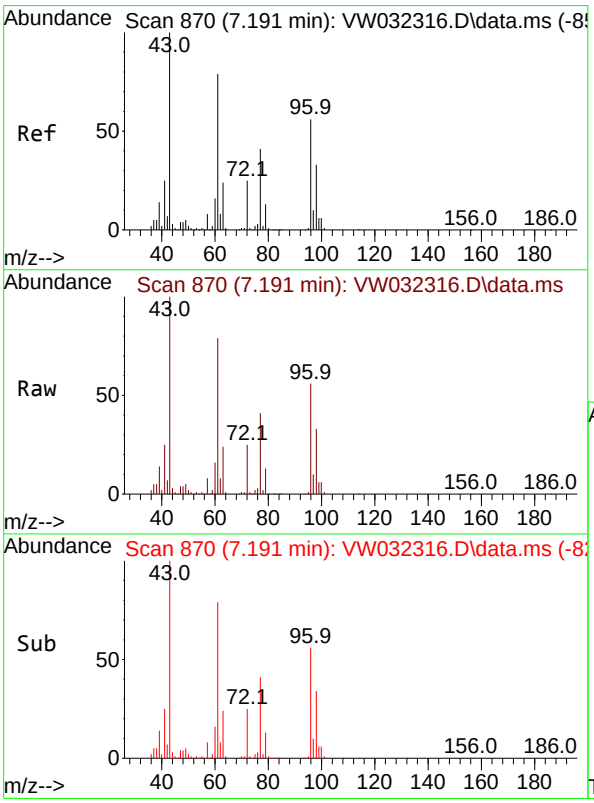
Ion	Ratio	Lower	Upper
43	100		
72	25.1	21.4	32.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

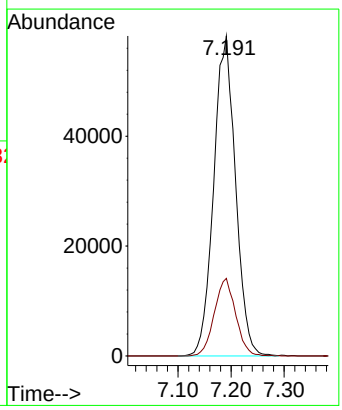
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

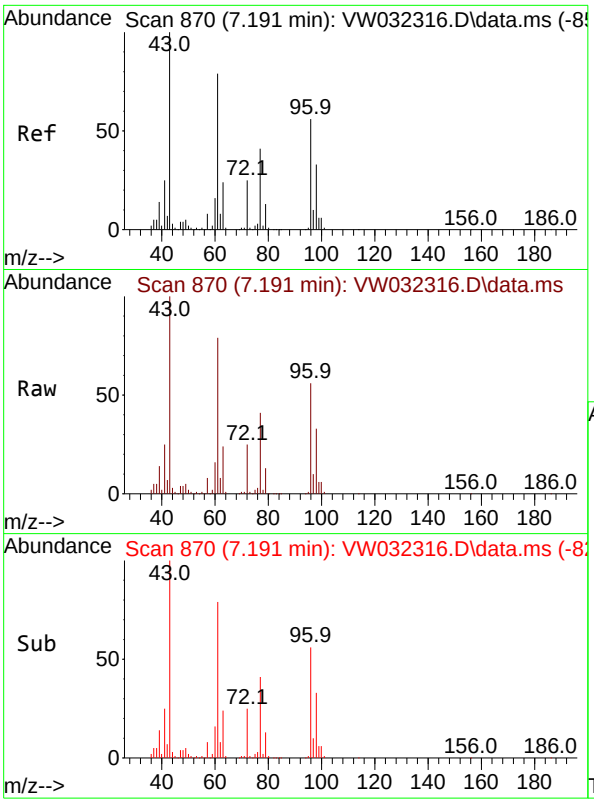


#26
2,2-Dichloropropane
Concen: 46.834 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 77 Resp: 166572

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.9	35.5

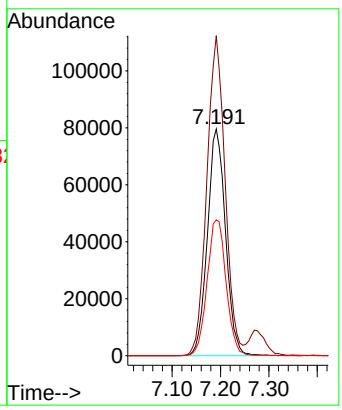




#27
cis-1,2-Dichloroethene
Concen: 47.792 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 96 Resp: 20710

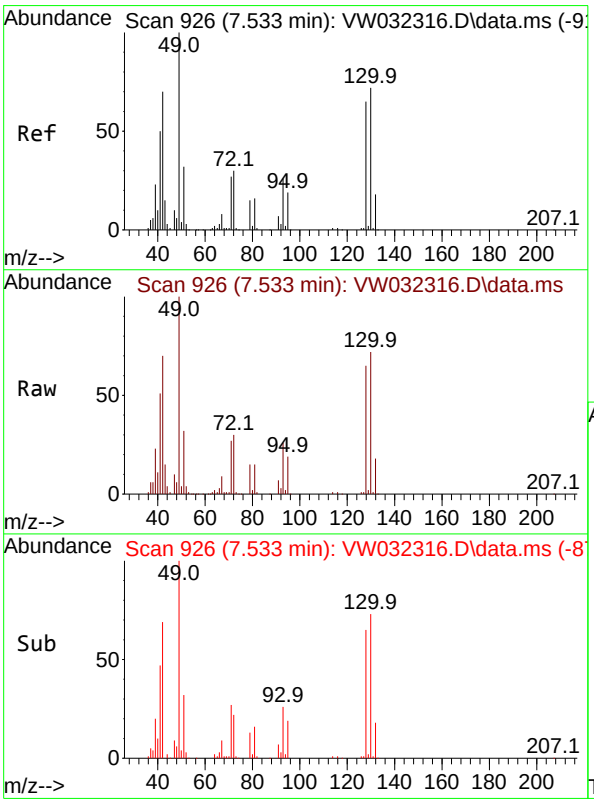
Ion	Ratio	Lower	Upper
96	100		
61	142.1	0.0	268.0
98	63.0	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

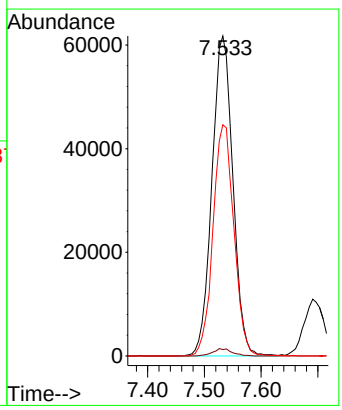
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

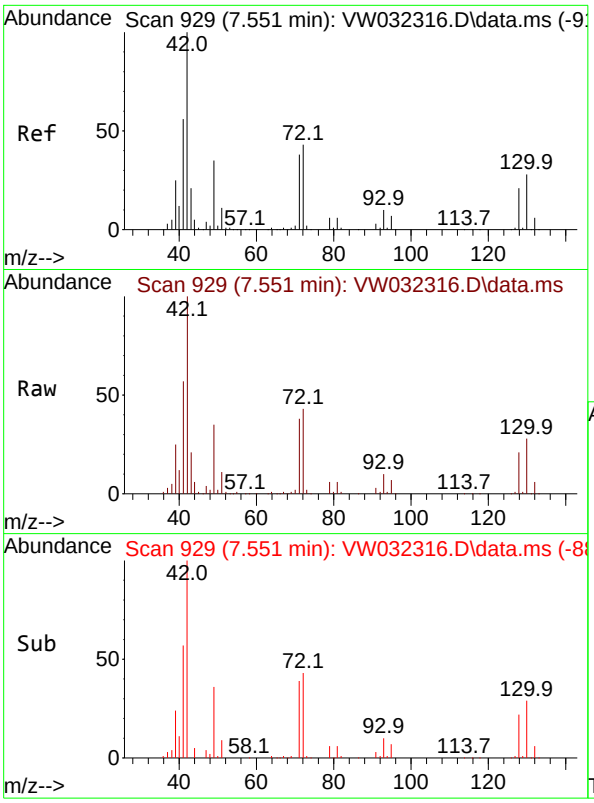


#28
Bromochloromethane
Concen: 48.374 ug/l
RT: 7.533 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 49 Resp: 158249

Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.2
130	72.2	67.5	101.3





#29
Tetrahydrofuran
Concen: 247.317 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

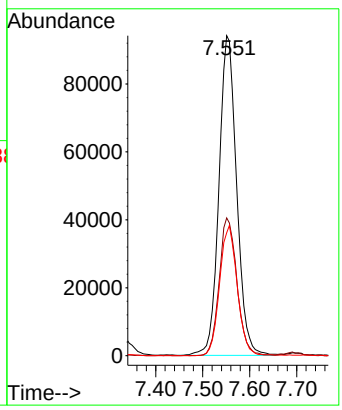
Tgt Ion: 42 Resp: 24731

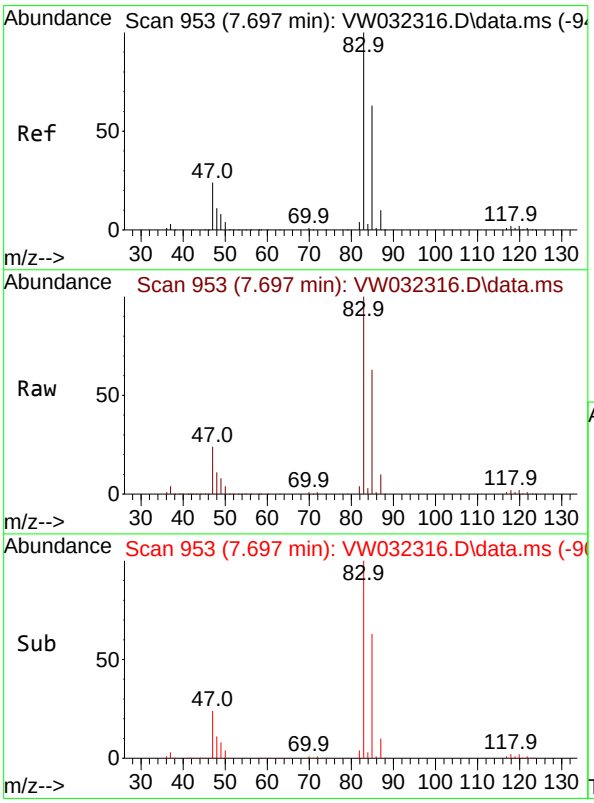
Ion	Ratio	Lower	Upper
42	100		
72	43.3	37.4	56.2
71	40.4	36.0	54.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

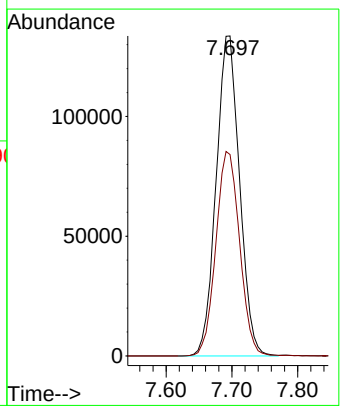


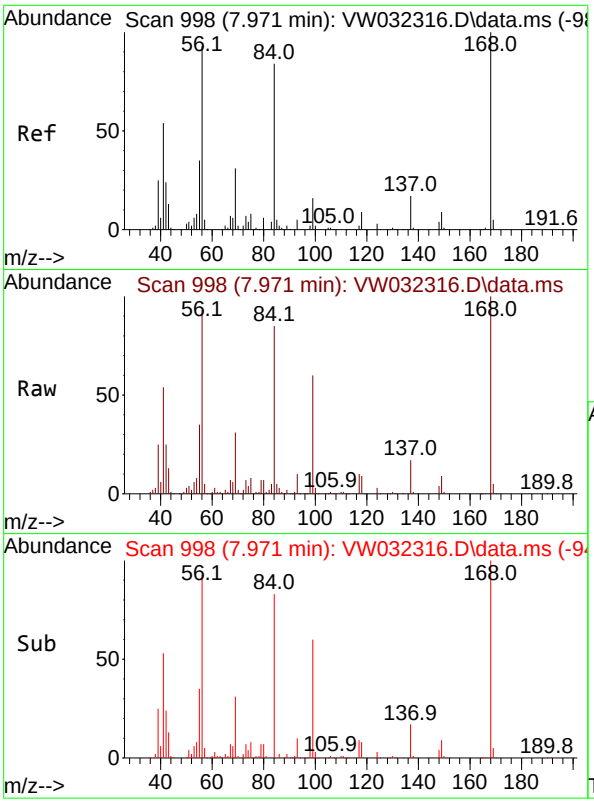


#30
Chloroform
Concen: 46.983 ug/l
RT: 7.697 min Scan# 953
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 83 Resp: 331309

Ion	Ratio	Lower	Upper
83	100		
85	62.9	51.2	76.8

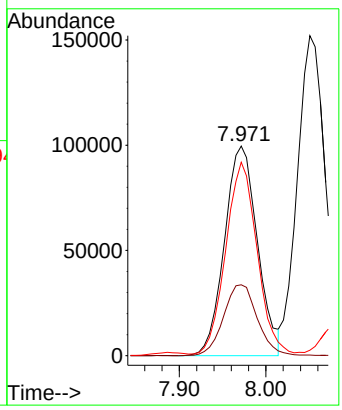




#31
Cyclohexane
Concen: 44.363 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 56 Resp: 26334

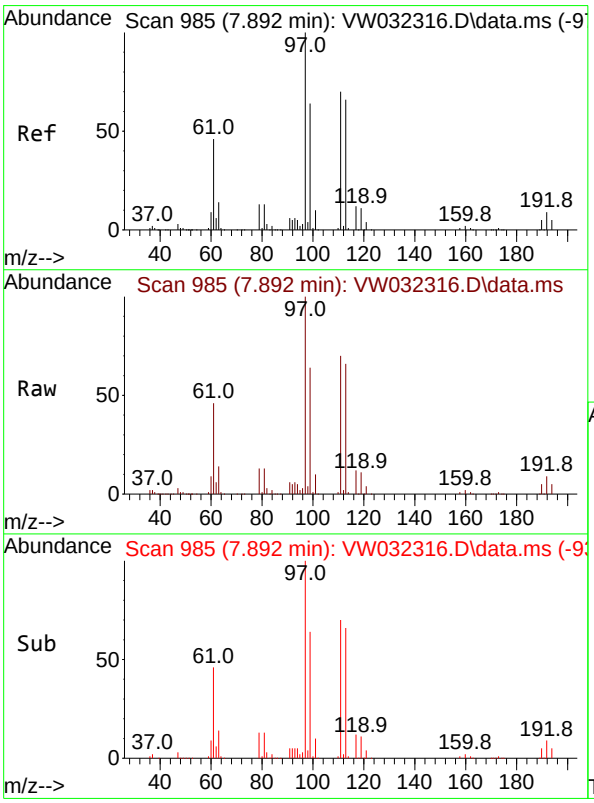
Ion	Ratio	Lower	Upper
56	100		
69	33.8	27.7	41.5
84	91.0	74.6	112.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

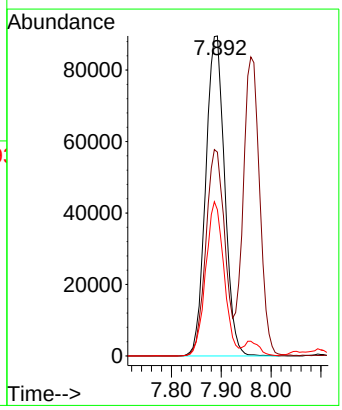
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

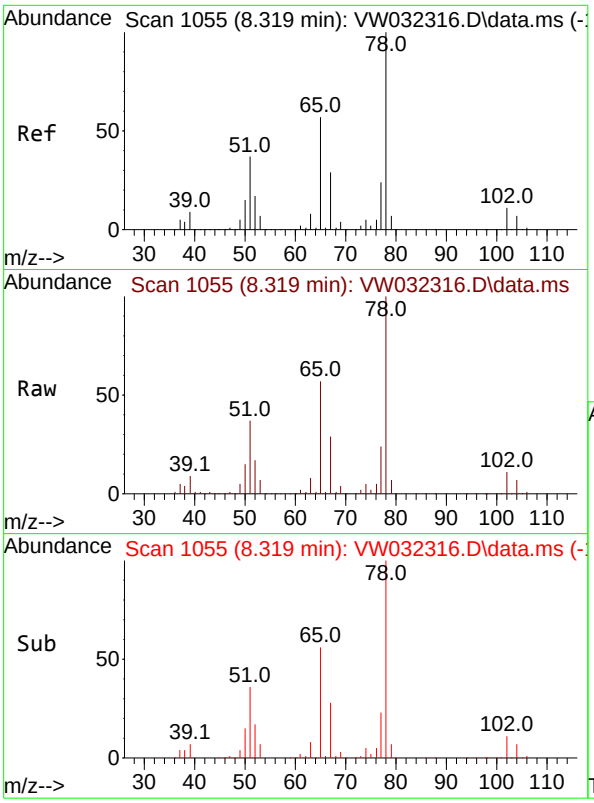


#32
1,1,1-Trichloroethane
Concen: 47.214 ug/l
RT: 7.892 min Scan# 985
Delta R.T. 0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 97 Resp: 235925

Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.9	76.3
61	46.7	36.2	54.4

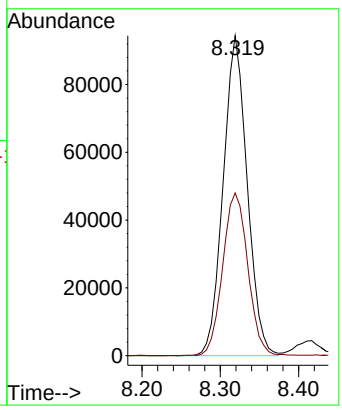




#33
1,2-Dichloroethane-d4
Concen: 47.649 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 65 Resp: 20091

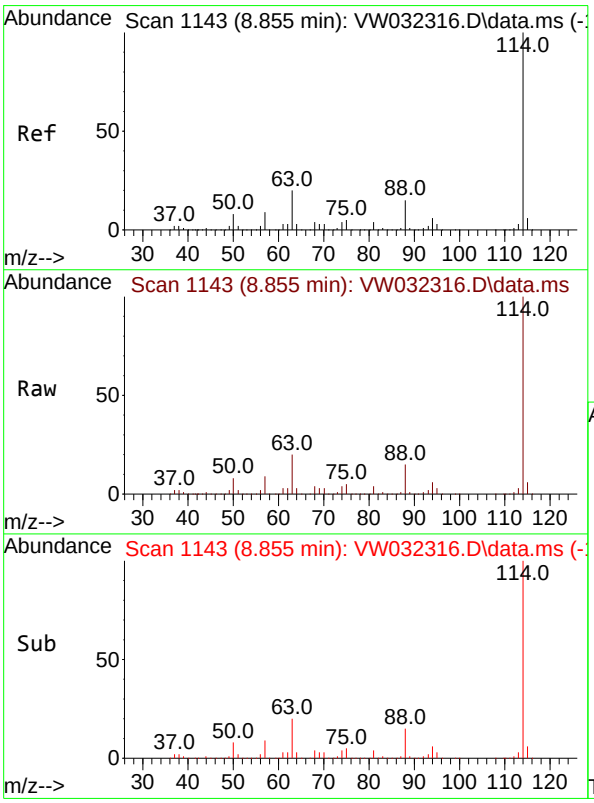
Ion	Ratio	Lower	Upper
65	100		
67	53.4	0.0	99.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

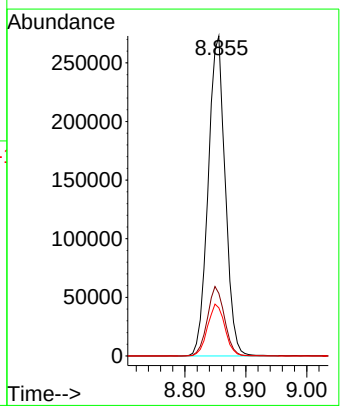
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

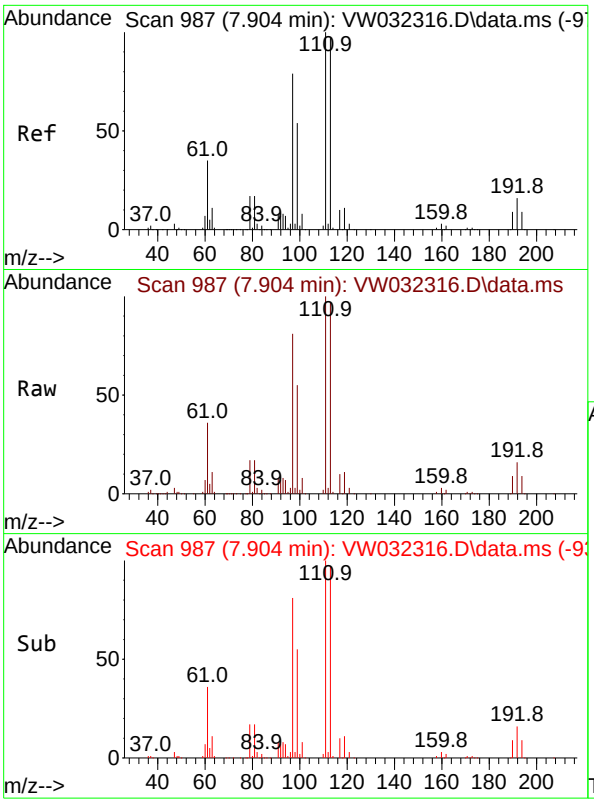


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:114 Resp: 530255

Ion	Ratio	Lower	Upper
114	100		
63	19.5	0.0	40.4
88	15.0	0.0	32.0

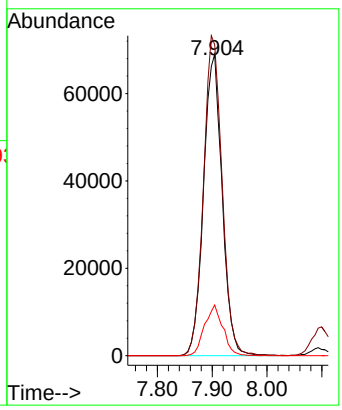




#35
Dibromofluoromethane
Concen: 47.215 ug/l
RT: 7.904 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:113 Resp: 16213

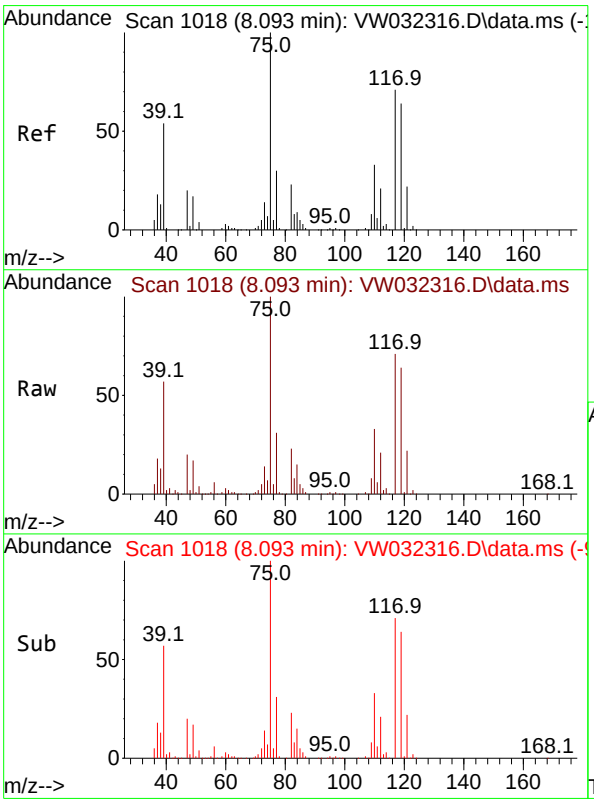
Ion	Ratio	Lower	Upper
113	100		
111	106.2	83.9	125.9
192	16.6	14.6	21.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

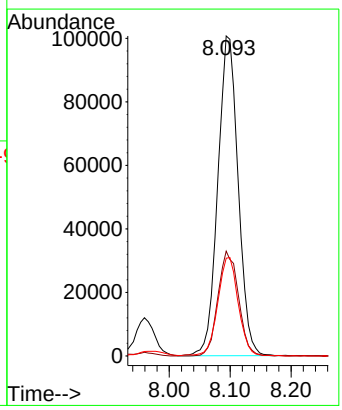
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

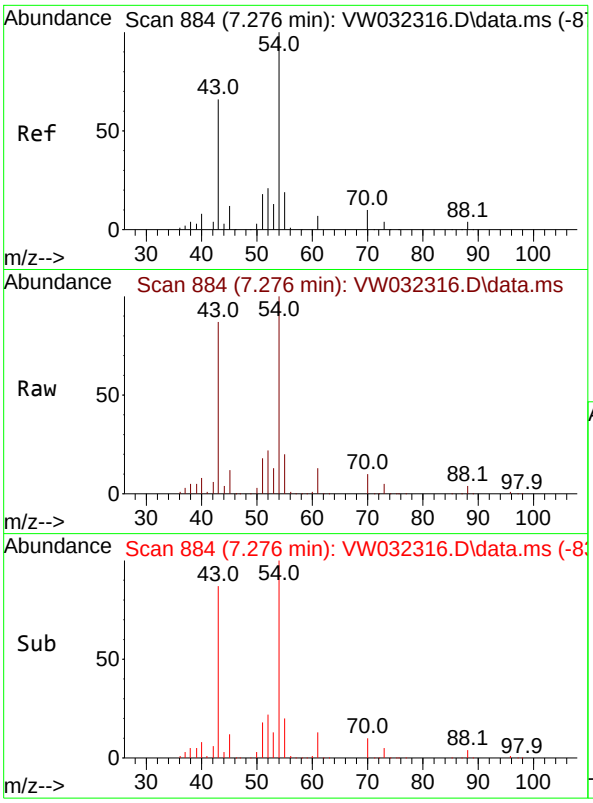


#36
1,1-Dichloropropene
Concen: 48.069 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 75 Resp: 232959

Ion	Ratio	Lower	Upper
75	100		
110	33.1	17.5	52.5
77	31.2	24.1	36.1

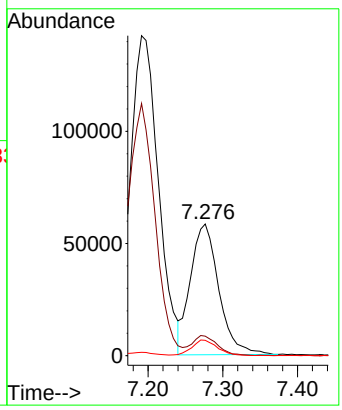




#37
Ethyl Acetate
Concen: 47.655 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 43 Resp: 15372

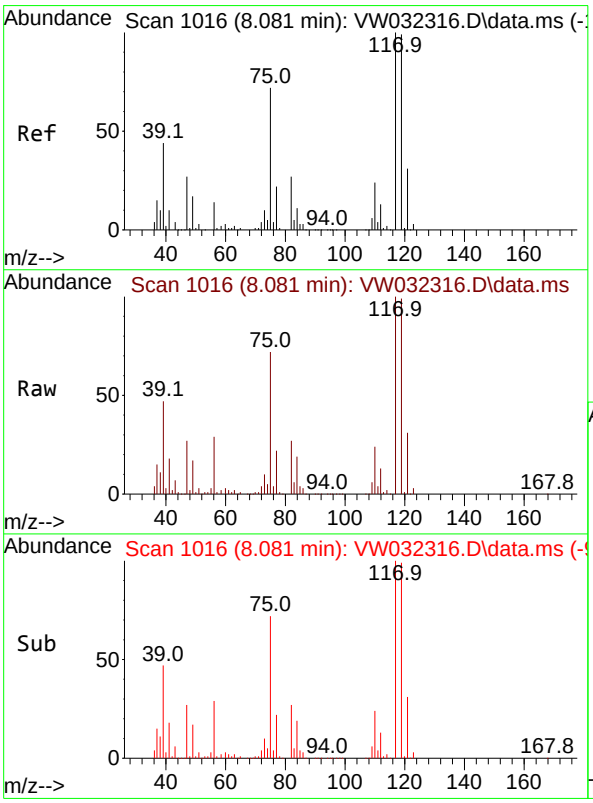
Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.3	16.9
70	11.0	8.9	13.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

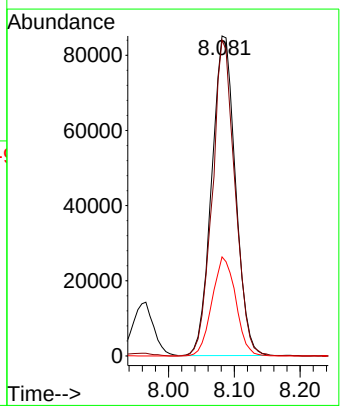
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

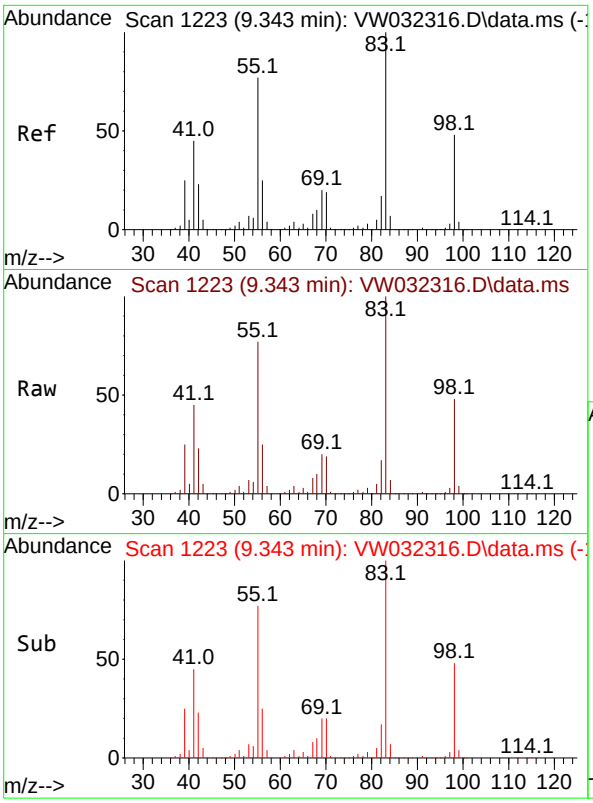


#38
Carbon Tetrachloride
Concen: 46.865 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:117 Resp: 213729

Ion	Ratio	Lower	Upper
117	100		
119	98.8	74.2	111.2
121	31.0	25.6	38.4





#39
Methylcyclohexane
Concen: 47.272 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

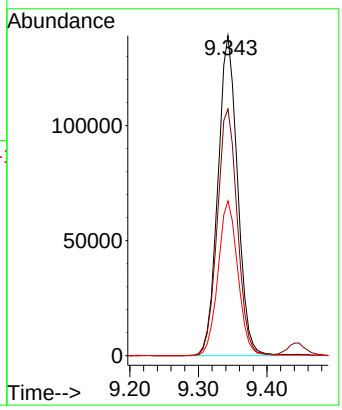
Tgt Ion: 83 Resp: 27634

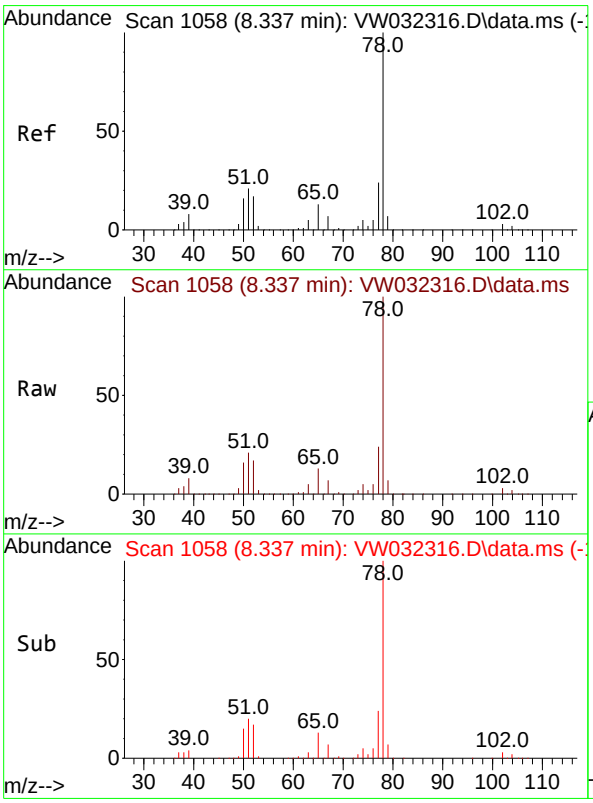
Ion	Ratio	Lower	Upper
83	100		
55	77.1	58.4	87.6
98	48.4	39.4	59.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

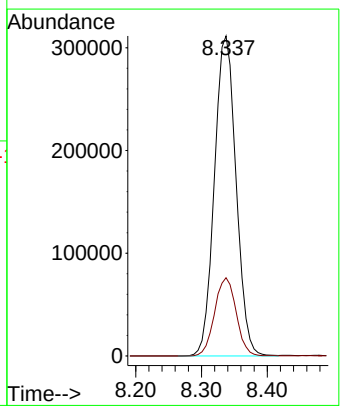


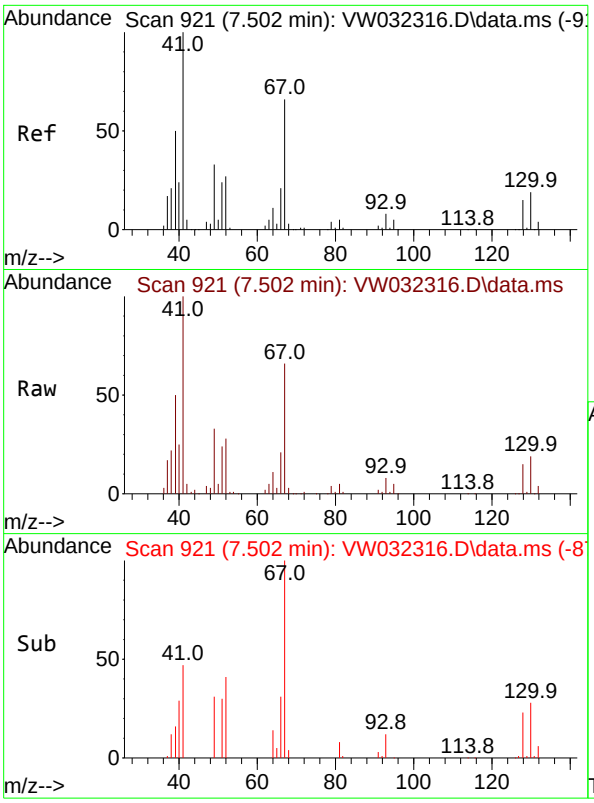


#40
Benzene
Concen: 46.964 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 78 Resp: 713410

Ion	Ratio	Lower	Upper
78	100		
77	24.4	20.7	31.1

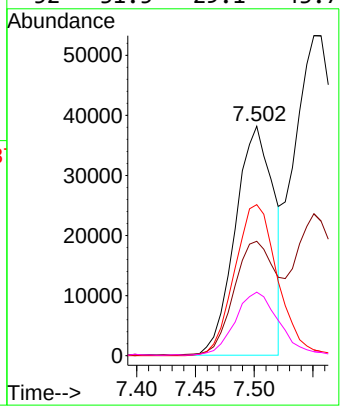




#41
Methacrylonitrile
Concen: 49.929 ug/l
RT: 7.502 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 41 Resp: 8679

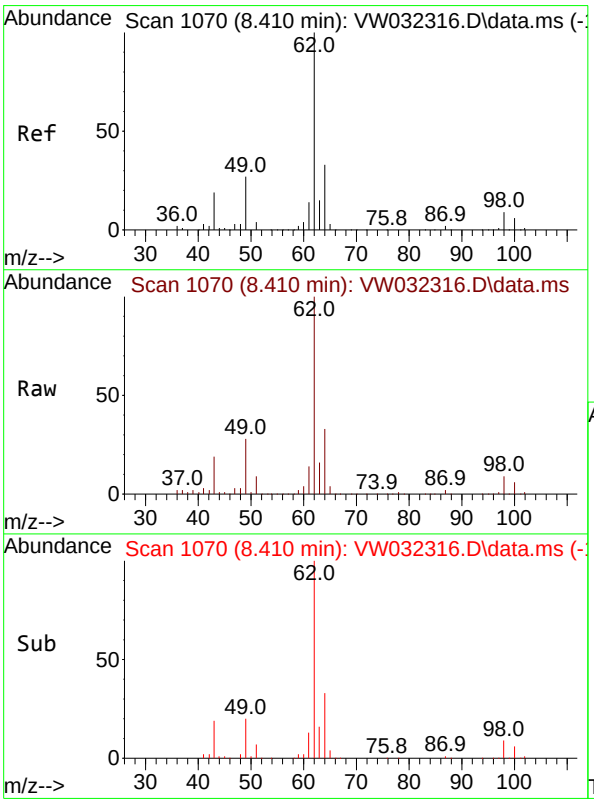
Ion	Ratio	Lower	Upper
41	100		
39	57.9	50.9	76.3
67	74.3	65.6	98.4
52	31.5	29.1	43.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

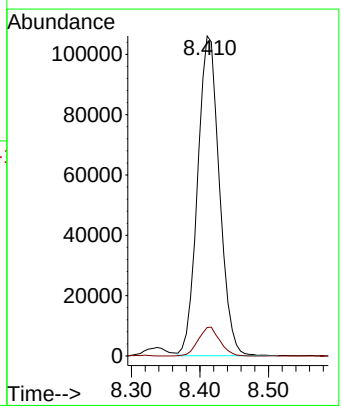
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

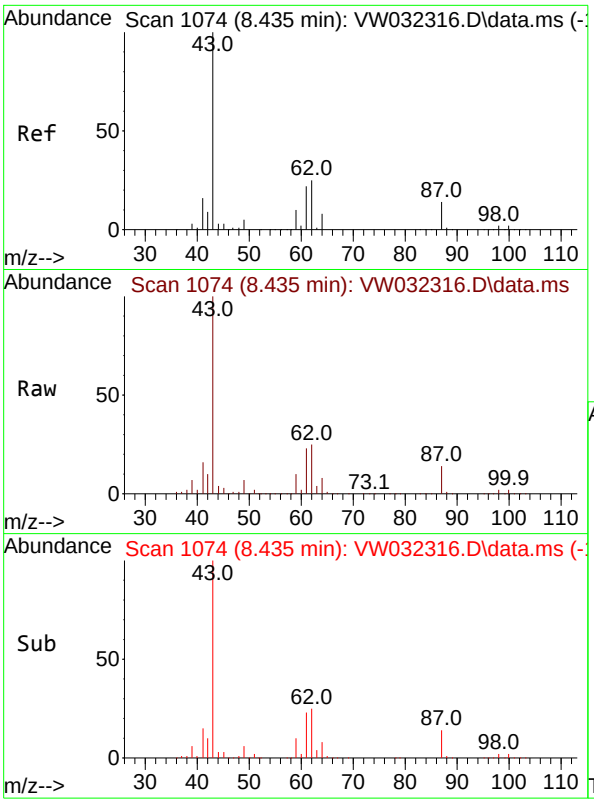


#42
1,2-Dichloroethane
Concen: 47.194 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 62 Resp: 234579

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	18.0





#43
Isopropyl Acetate
Concen: 48.202 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

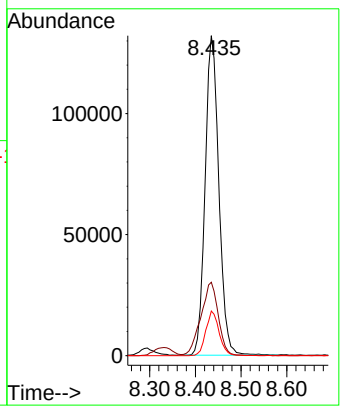
Tgt Ion: 43 Resp: 27583

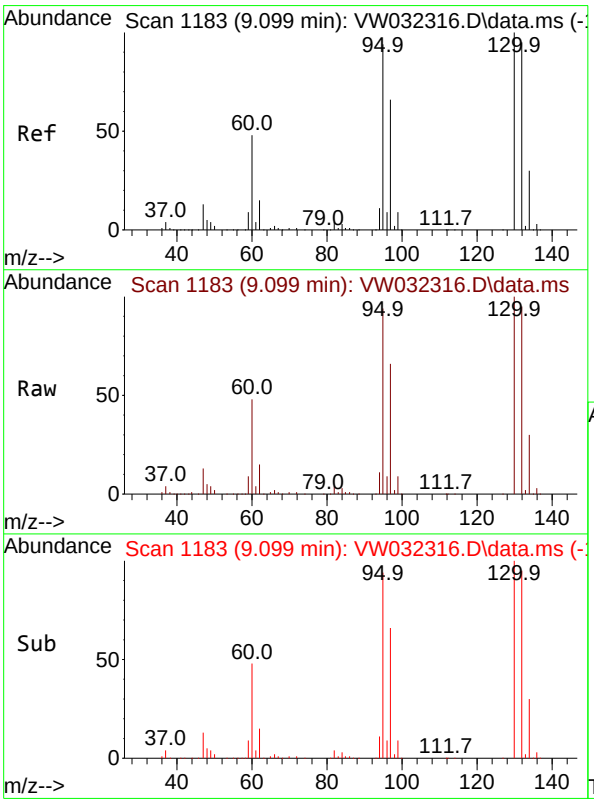
Ion	Ratio	Lower	Upper
43	100		
61	29.0	23.3	34.9
87	13.6	11.1	16.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

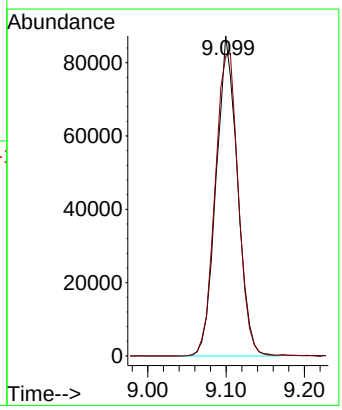


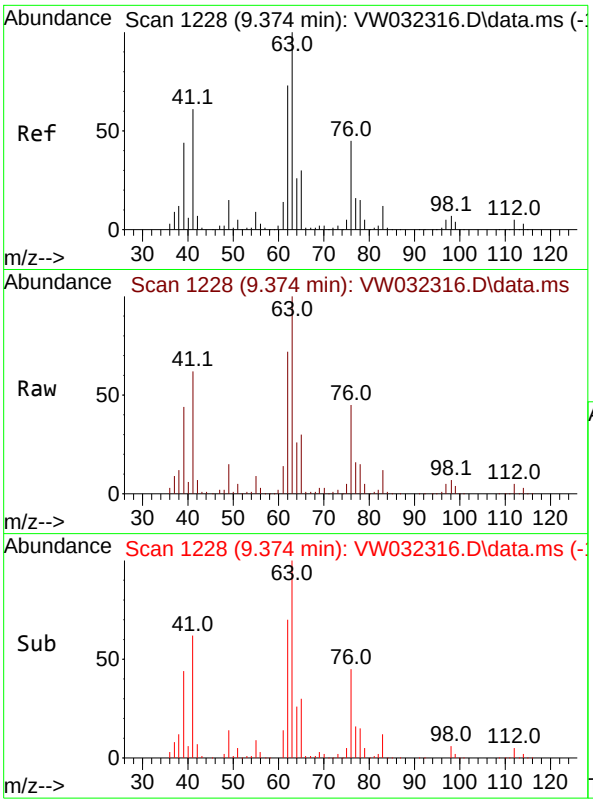


#44
Trichloroethene
Concen: 46.519 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:130 Resp: 165466

Ion	Ratio	Lower	Upper
130	100		
95	93.5	0.0	220.0

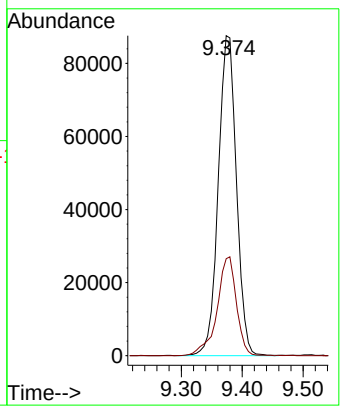




#45
1,2-Dichloropropane
Concen: 47.709 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 63 Resp: 18089

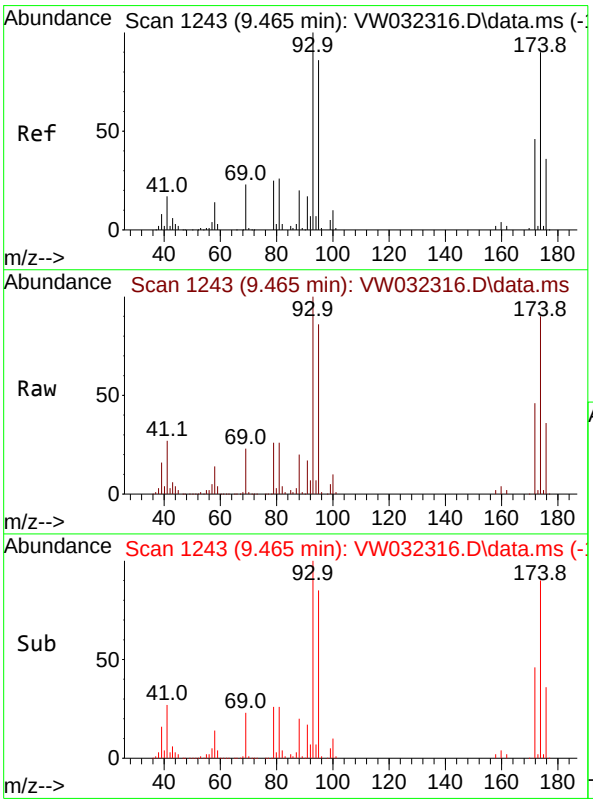
Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.3	36.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

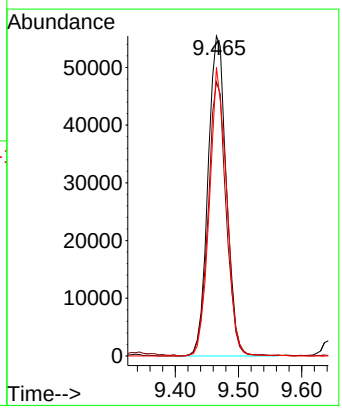
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

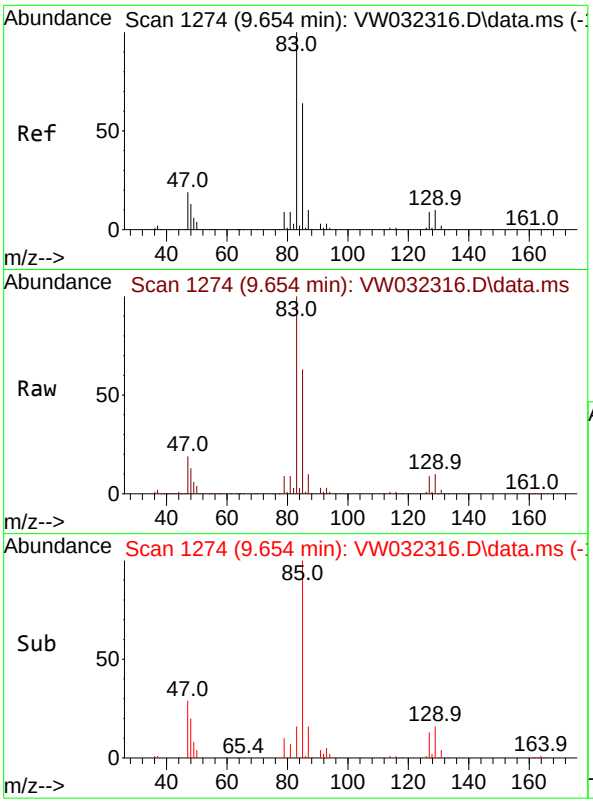


#46
Dibromomethane
Concen: 47.962 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 93 Resp: 111827

Ion	Ratio	Lower	Upper
93	100		
95	83.8	67.4	101.2
174	84.5	75.7	113.5

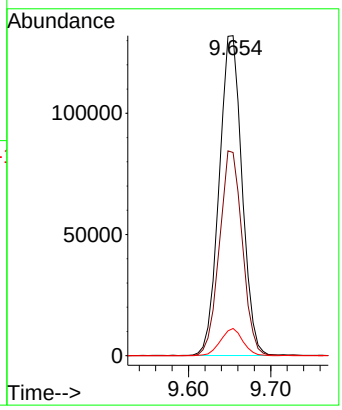




#47
Bromodichloromethane
Concen: 47.759 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 83 Resp: 25468

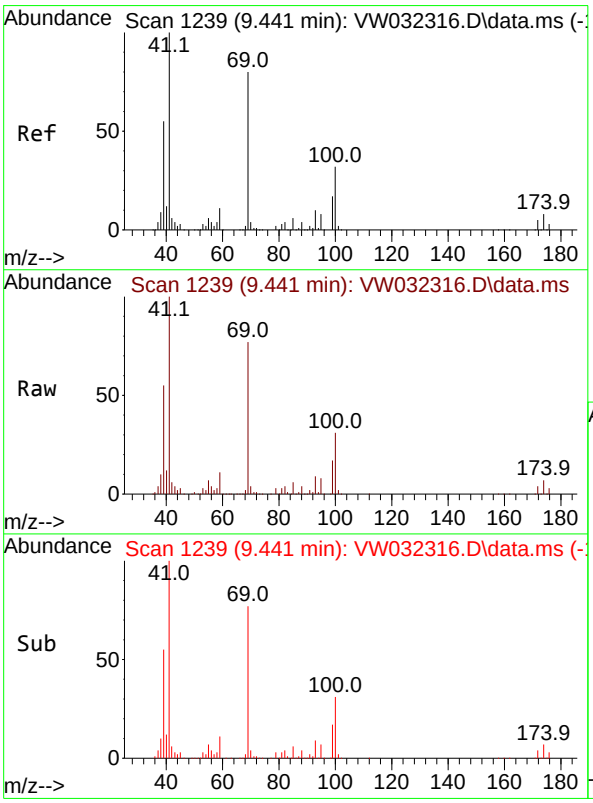
Ion	Ratio	Lower	Upper
83	100		
85	63.5	48.7	73.1
127	8.5	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

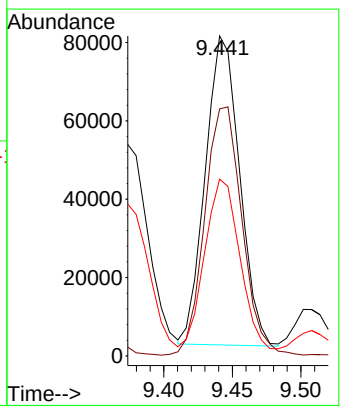
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

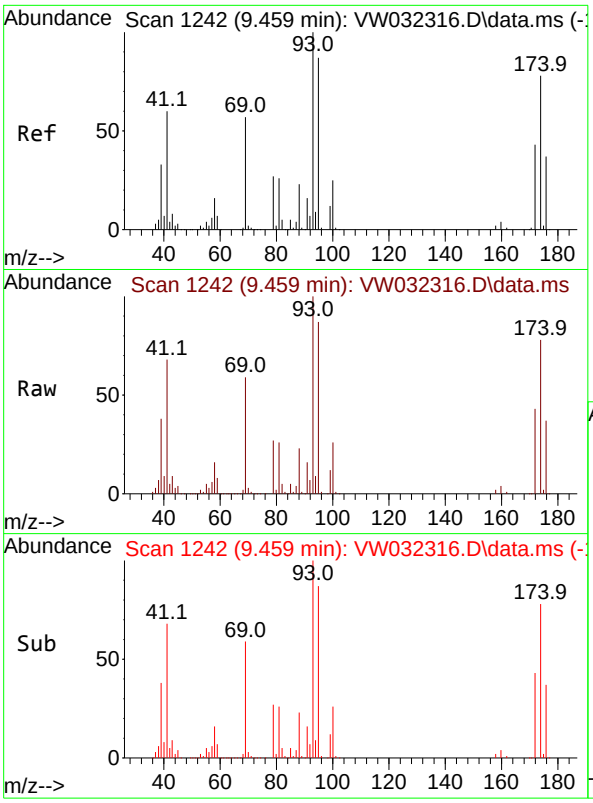


#48
Methyl methacrylate
Concen: 49.341 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 41 Resp: 137281

Ion	Ratio	Lower	Upper
41	100		
69	88.1	71.5	107.3
39	55.9	55.9	83.9#

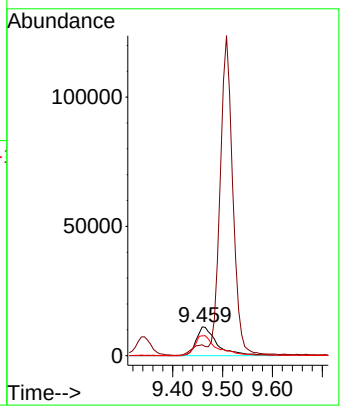




#49
1,4-Dioxane
Concen: 1024.535 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 88 Resp: 3265

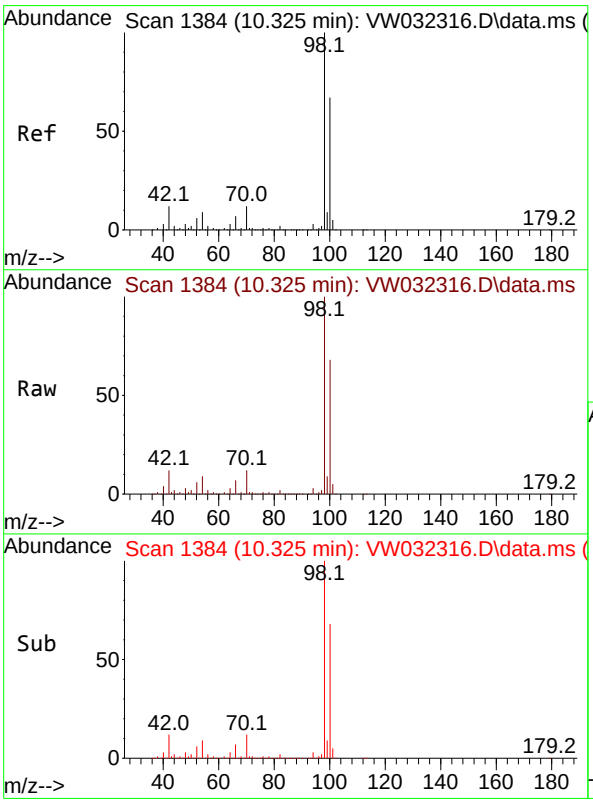
Ion	Ratio	Lower	Upper
88	100		
43	27.4	18.0	27.0
58	72.9	55.4	83.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

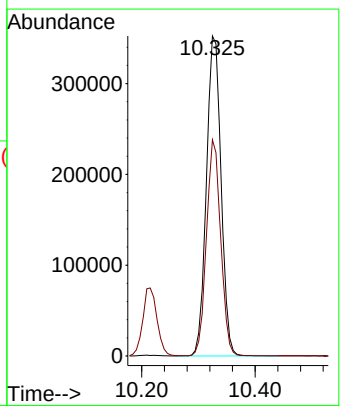
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

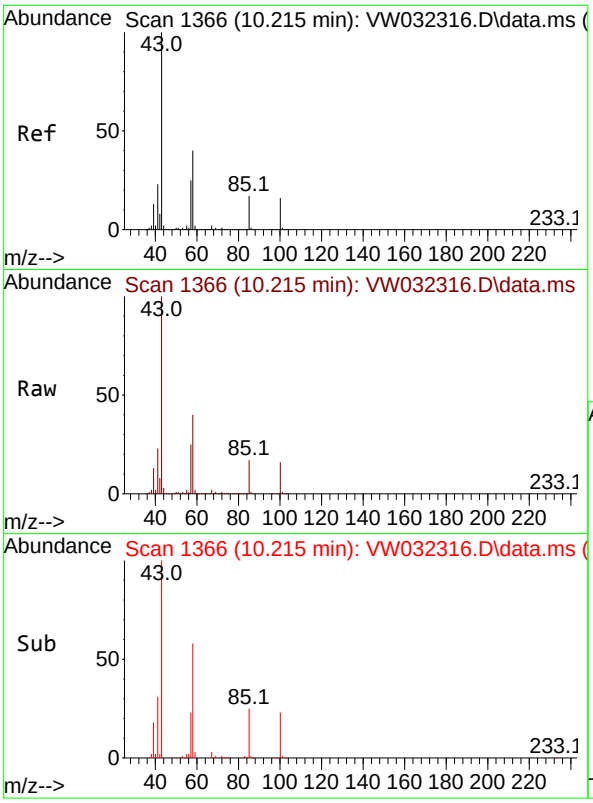


#50
Toluene-d8
Concen: 49.927 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 98 Resp: 632778

Ion	Ratio	Lower	Upper
98	100		
100	65.7	51.4	77.2

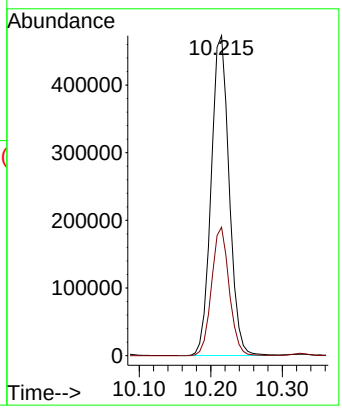




#51
4-Methyl-2-Pentanone
Concen: 249.195 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 43 Resp: 82594

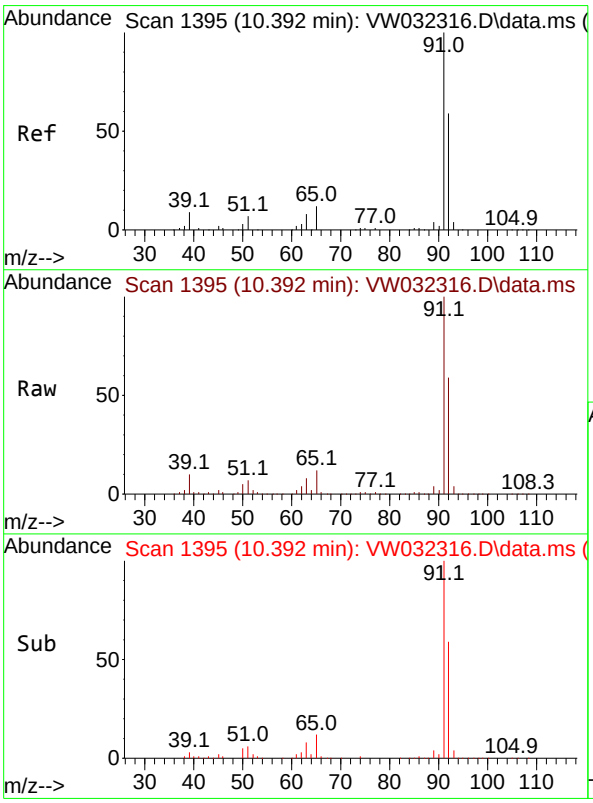
Ion	Ratio	Lower	Upper
43	100		
58	39.3	32.0	48.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

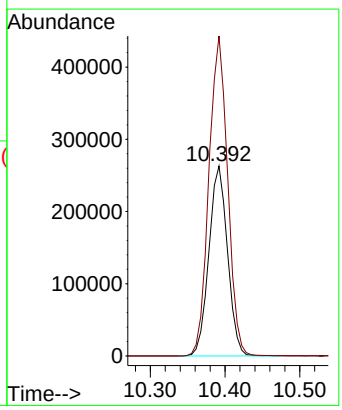
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

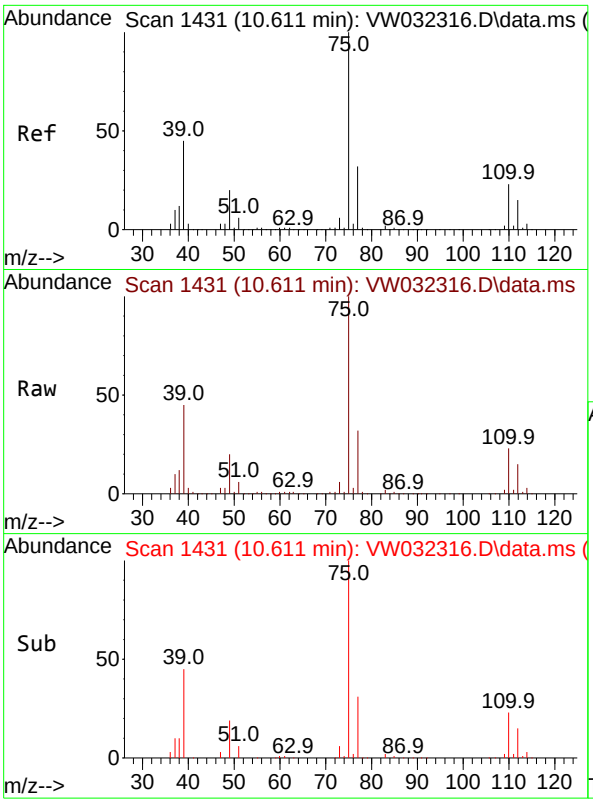


#52
Toluene
Concen: 48.052 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 92 Resp: 454566

Ion	Ratio	Lower	Upper
92	100		
91	170.0	137.5	206.3





#53
t-1,3-Dichloropropene
Concen: 49.001 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

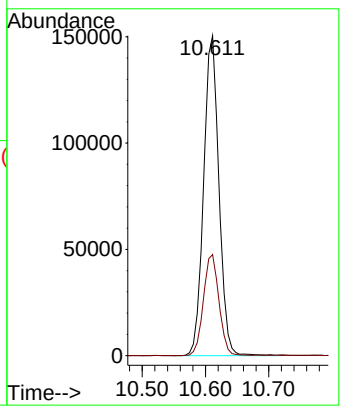
Tgt Ion: 75 Resp: 25351

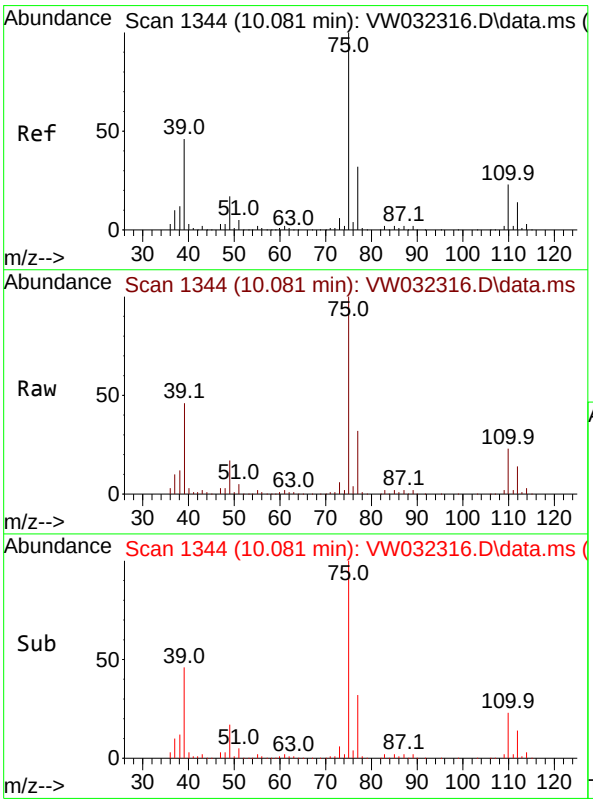
Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.6	38.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

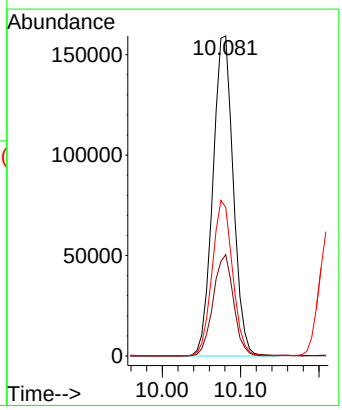


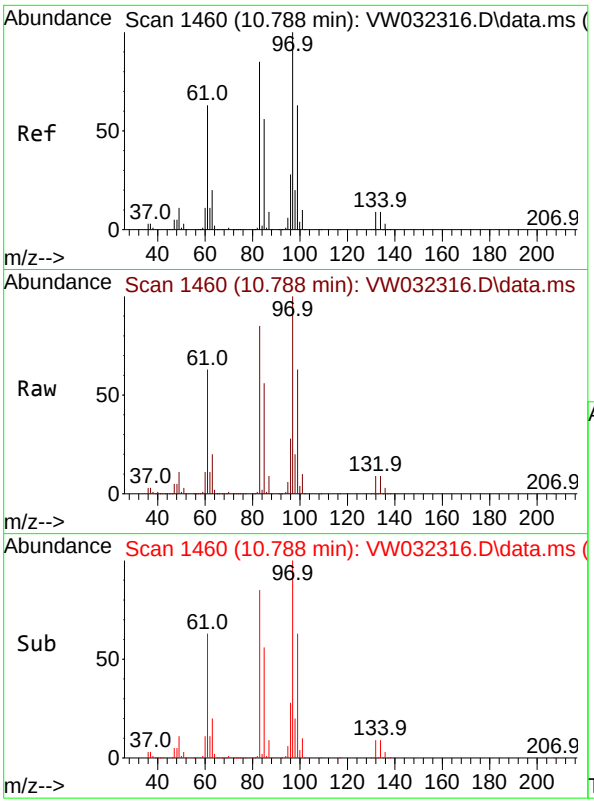


#54
cis-1,3-Dichloropropene
Concen: 48.447 ug/l
RT: 10.081 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 75 Resp: 288719

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.1	37.7
39	46.4	43.2	64.8

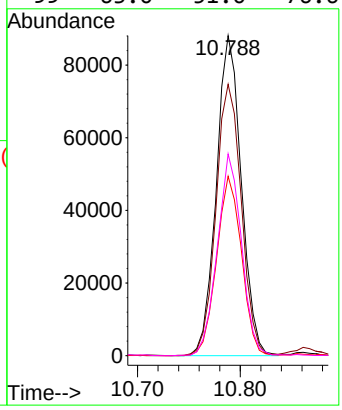




#55
1,1,2-Trichloroethane
Concen: 47.671 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 97 Resp: 14855

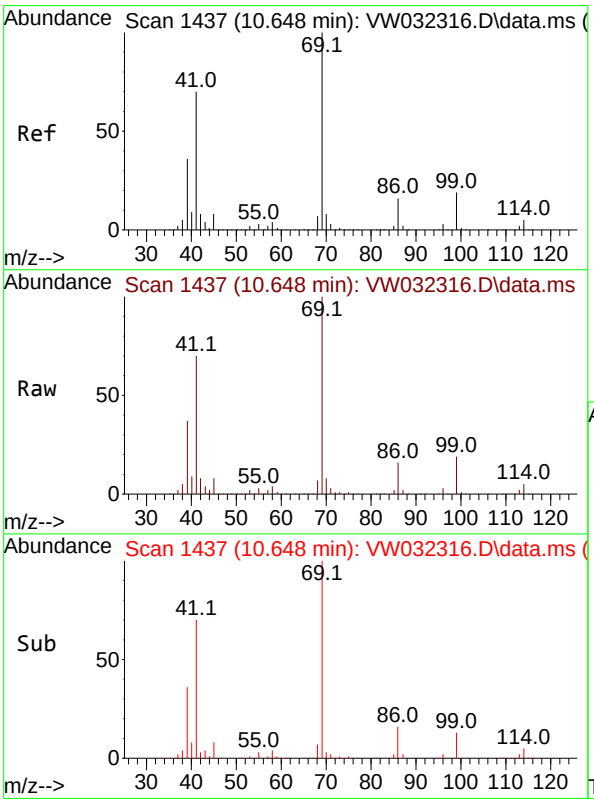
Ion	Ratio	Lower	Upper
97	100		
83	84.7	71.0	106.6
85	56.0	42.8	64.2
99	63.0	51.0	76.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

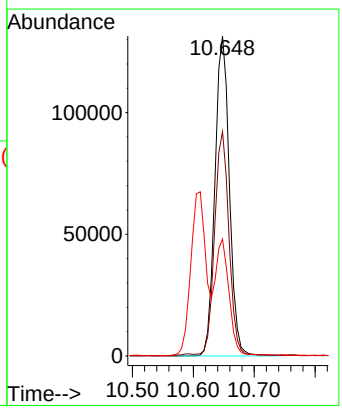
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

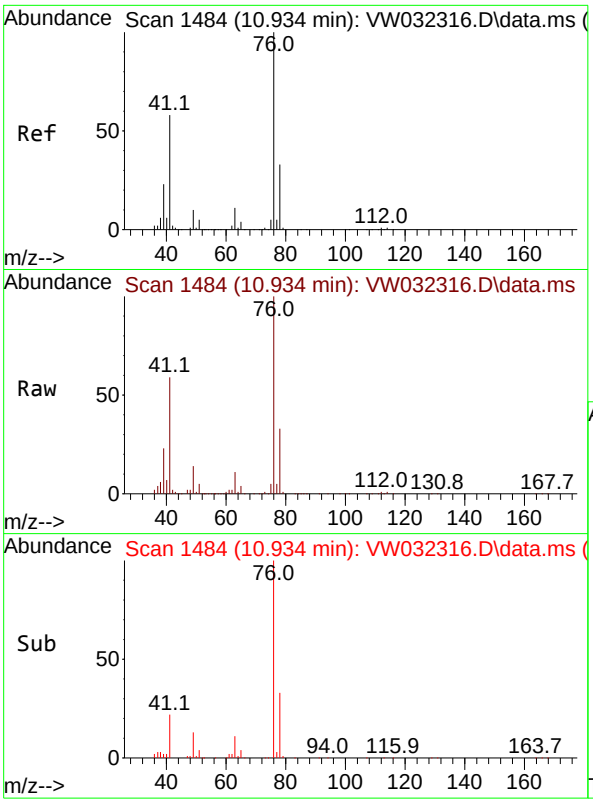


#56
Ethyl methacrylate
Concen: 49.633 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 69 Resp: 216484

Ion	Ratio	Lower	Upper
69	100		
41	69.2	53.2	79.8
39	34.1	32.9	49.3





#57
1,3-Dichloropropane
Concen: 47.992 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

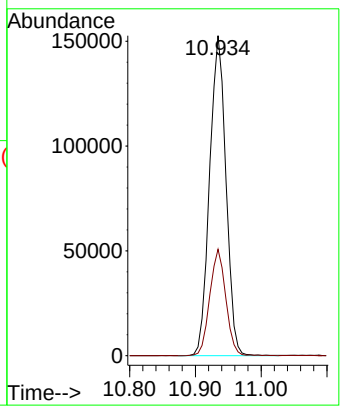
Tgt Ion: 76 Resp: 26413

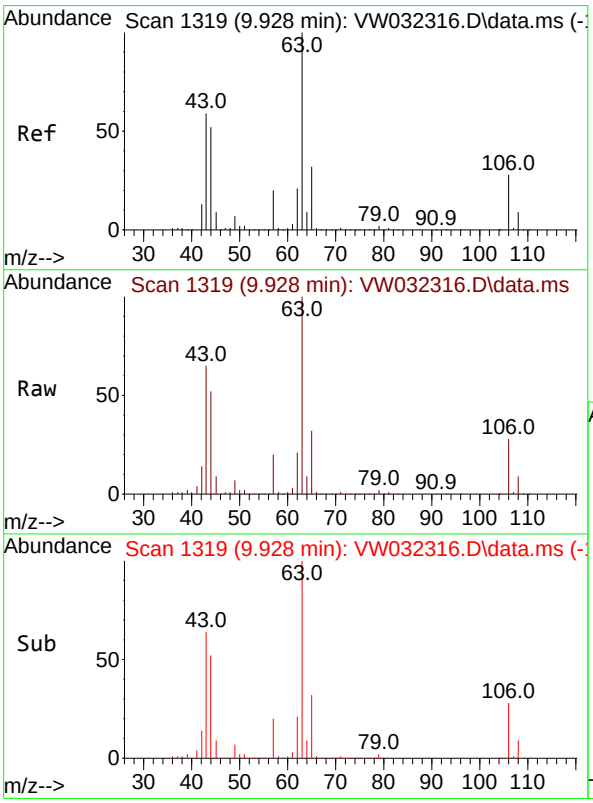
Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.2	39.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

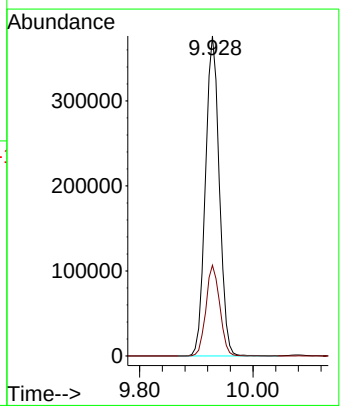


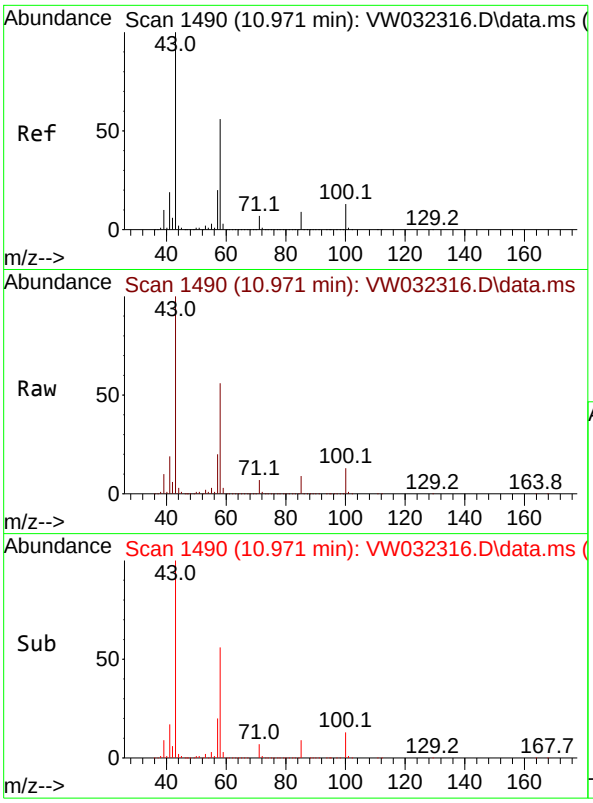


#58
2-Chloroethyl Vinyl ether
Concen: 275.675 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 63 Resp: 639919

Ion	Ratio	Lower	Upper
63	100		
106	28.1	24.3	36.5





#59
2-Hexanone
Concen: 248.758 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

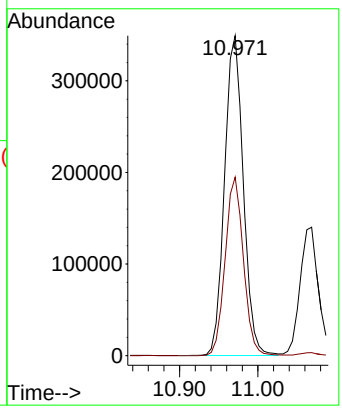
Tgt Ion: 43 Resp: 58151(

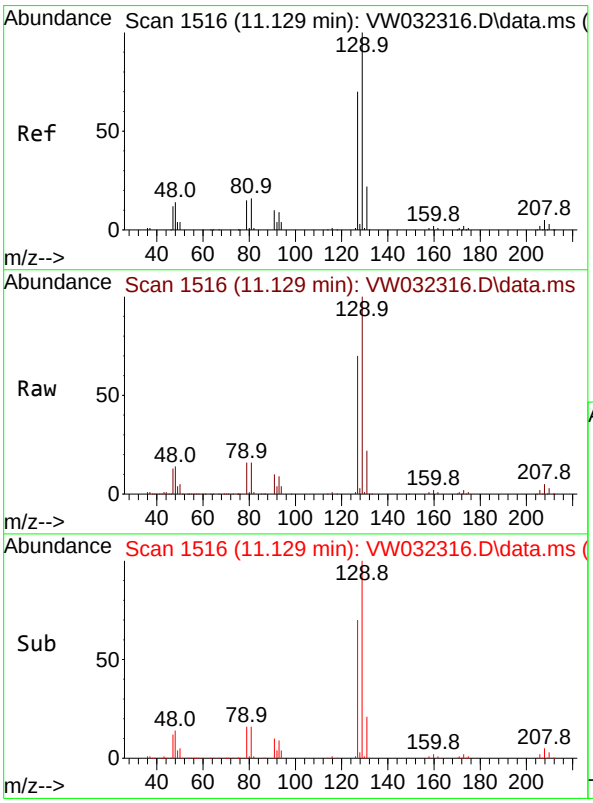
Ion	Ratio	Lower	Upper
43	100		
58	54.4	27.5	82.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

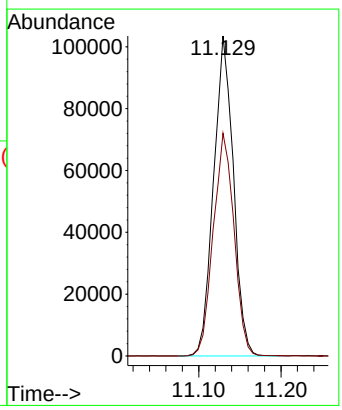


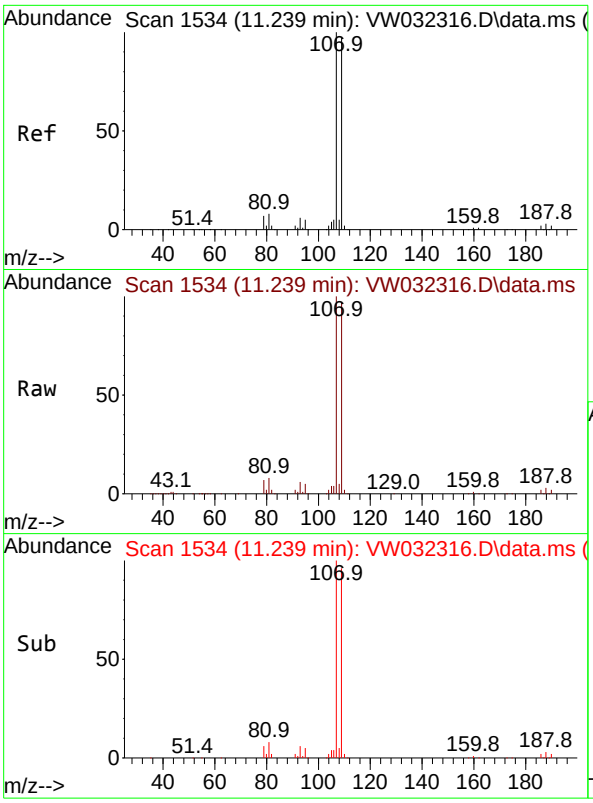


#60
Dibromochloromethane
Concen: 48.878 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:129 Resp: 172945

Ion	Ratio	Lower	Upper
129	100		
127	73.1	38.1	114.5

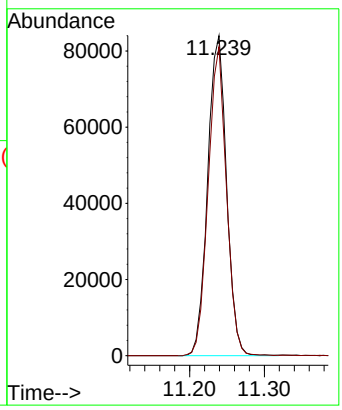




#61
1,2-Dibromoethane
Concen: 48.427 ug/l
RT: 11.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:107 Resp: 14714

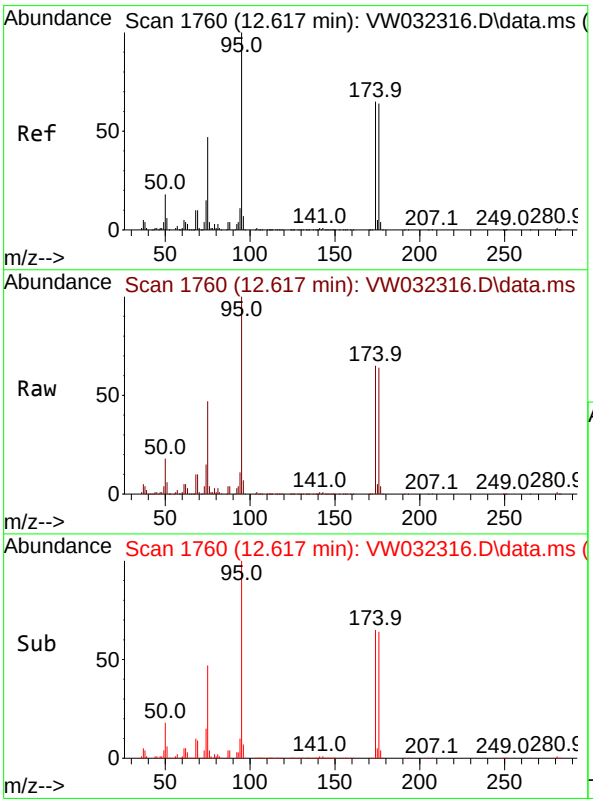
Ion	Ratio	Lower	Upper
107	100		
109	93.5	74.5	111.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

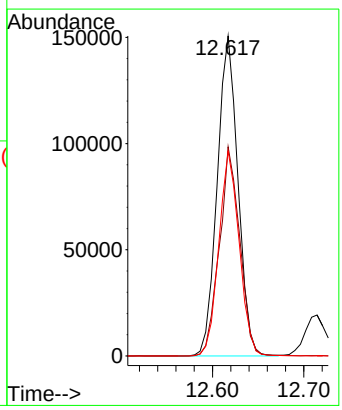
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

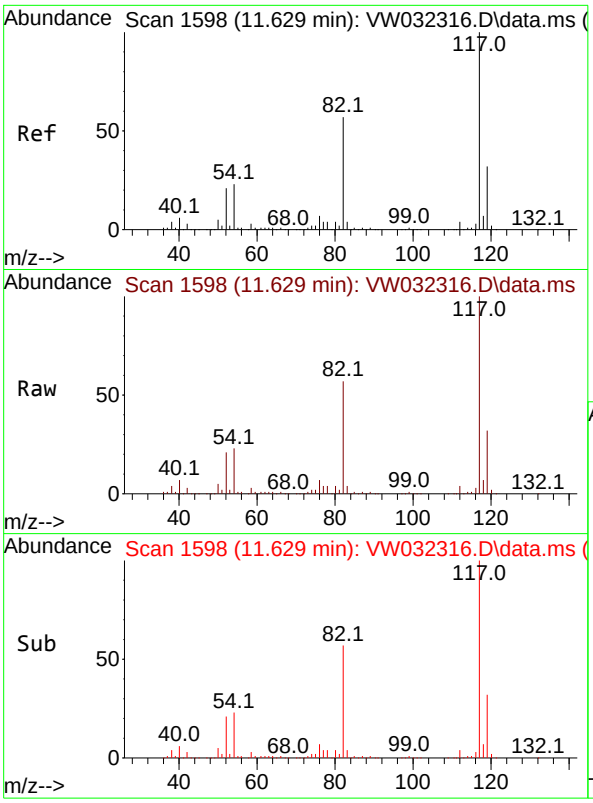


#62
4-Bromofluorobenzene
Concen: 49.609 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 95 Resp: 237645

Ion	Ratio	Lower	Upper
95	100		
174	64.4	0.0	145.6
176	62.8	0.0	140.8

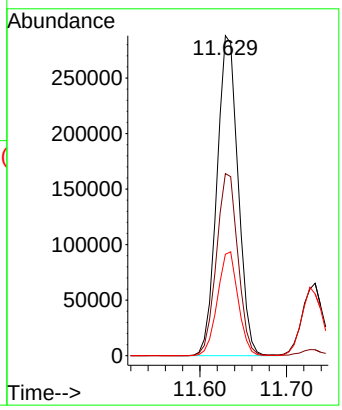




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:117 Resp: 48904

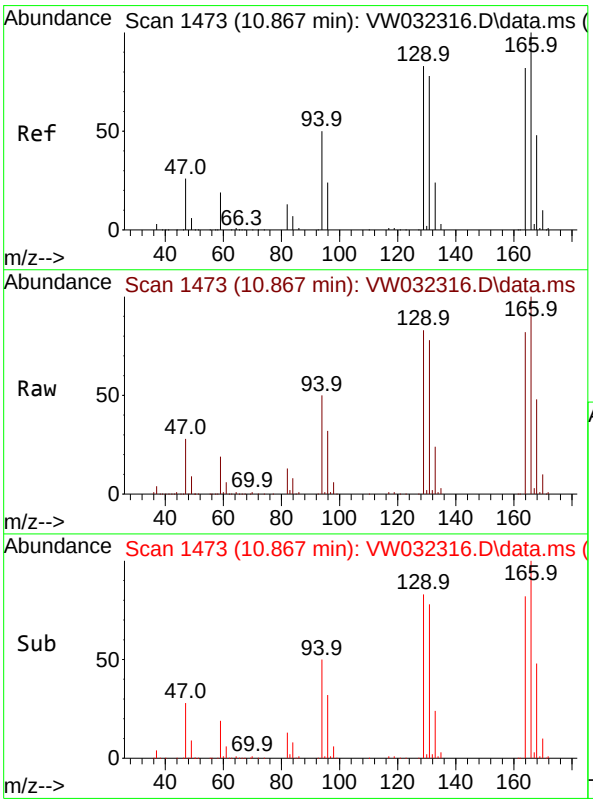
Ion	Ratio	Lower	Upper
117	100		
82	56.9	42.7	64.1
119	31.7	25.2	37.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

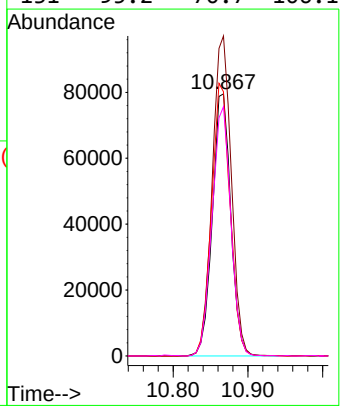
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

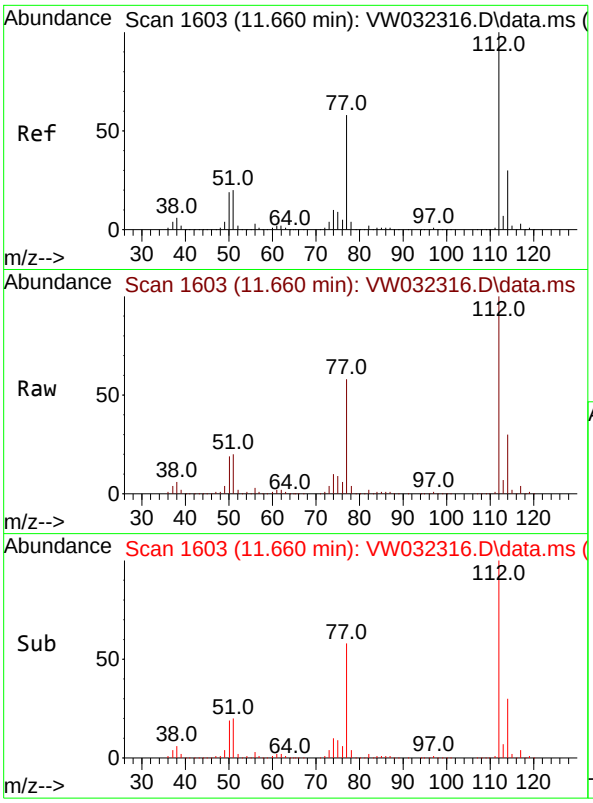


#64
Tetrachloroethene
Concen: 46.522 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:164 Resp: 136139

Ion	Ratio	Lower	Upper
164	100		
166	122.1	97.5	146.3
129	100.8	71.2	106.8
131	95.2	70.7	106.1





#65
Chlorobenzene
Concen: 46.707 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

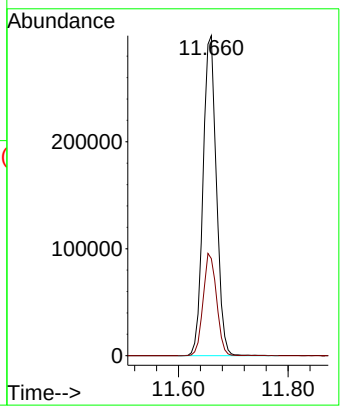
Tgt Ion:112 Resp: 50258

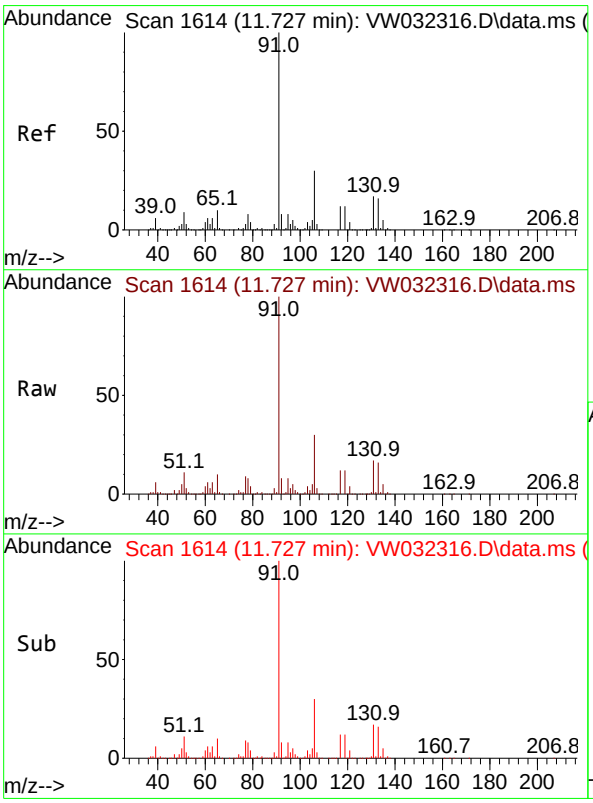
Ion	Ratio	Lower	Upper
112	100		
114	30.3	26.0	39.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

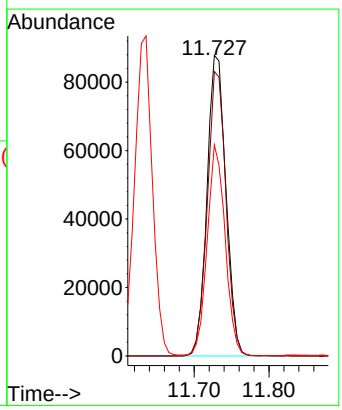


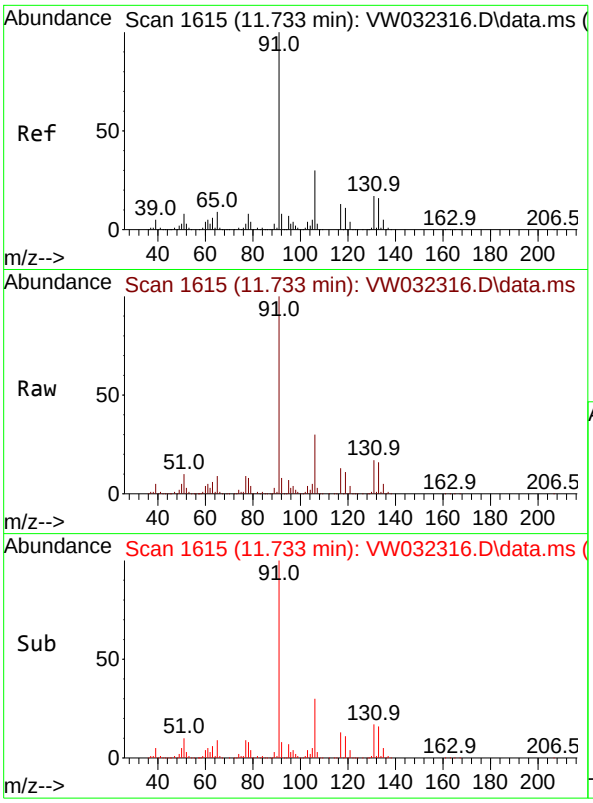


#66
1,1,1,2-Tetrachloroethane
Concen: 46.199 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:131 Resp: 154835

Ion	Ratio	Lower	Upper
131	100		
133	93.4	47.7	143.1
119	66.6	32.8	98.3





#67
Ethyl Benzene
Concen: 47.287 ug/l
RT: 11.733 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

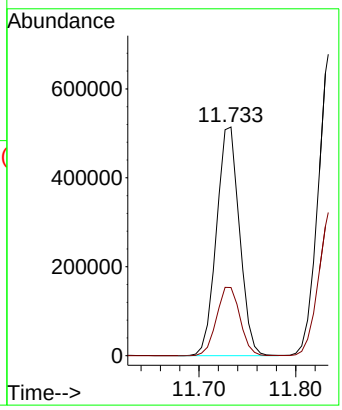
Tgt Ion: 91 Resp: 84814

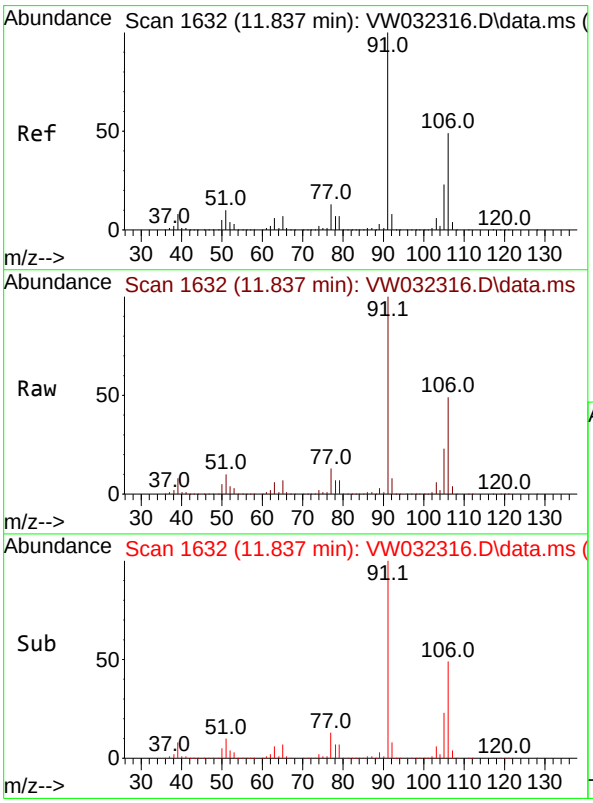
Ion	Ratio	Lower	Upper
91	100		
106	29.8	25.3	37.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

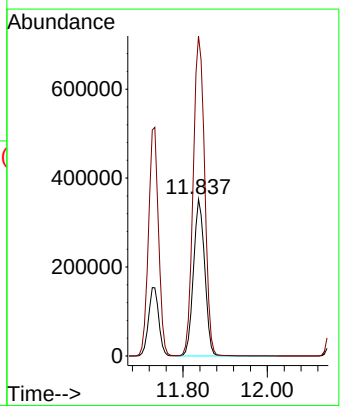


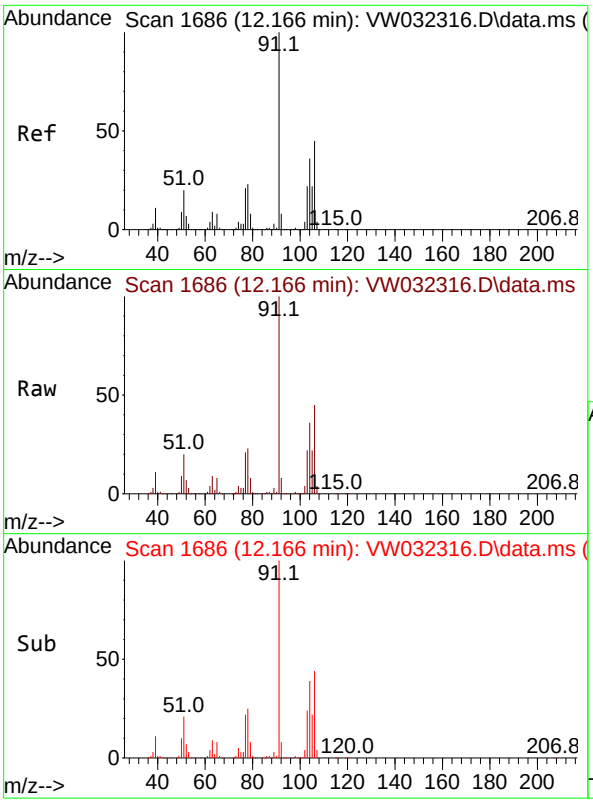


#68
m/p-Xylenes
Concen: 94.476 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:106 Resp: 653426

Ion	Ratio	Lower	Upper
106	100		
91	208.4	164.2	246.2

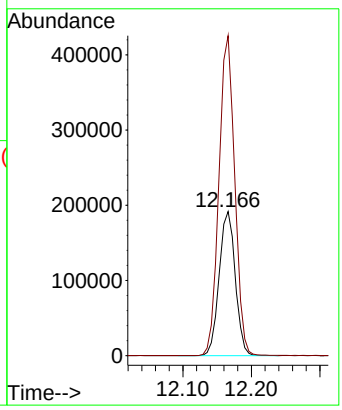




#69
o-Xylene
Concen: 48.200 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:106 Resp: 31175

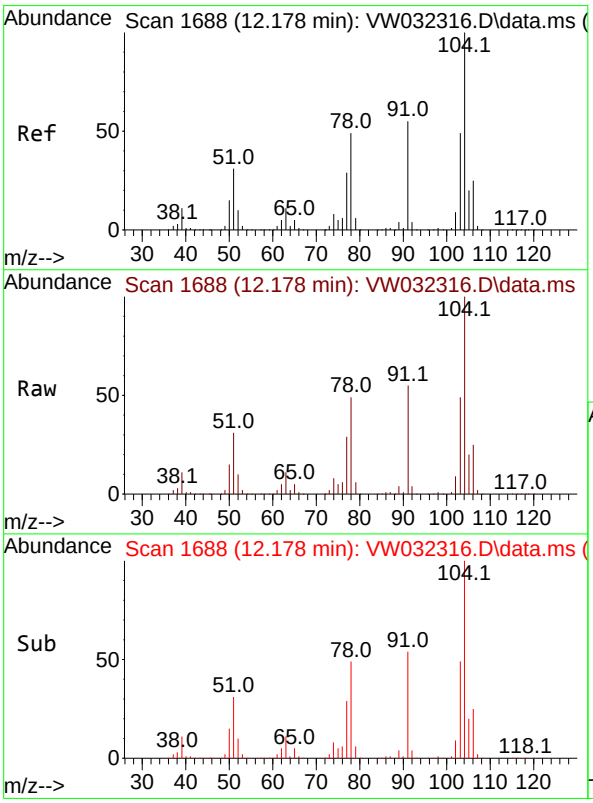
Ion	Ratio	Lower	Upper
106	100		
91	218.0	108.7	326.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

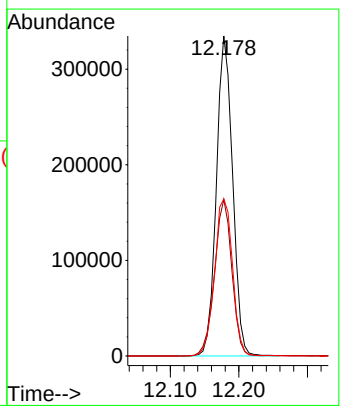
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

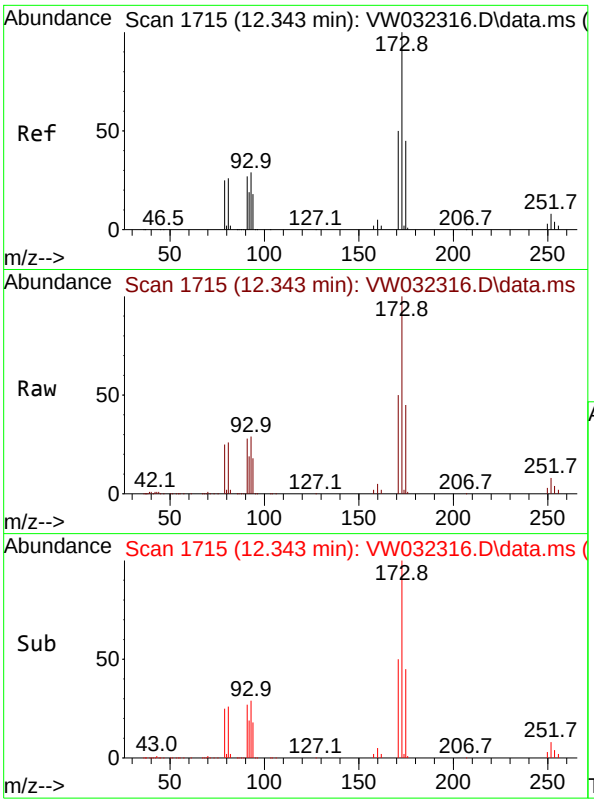


#70
Styrene
Concen: 48.664 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:104 Resp: 549550

Ion	Ratio	Lower	Upper
104	100		
78	52.4	41.6	62.4
103	54.5	44.8	67.2

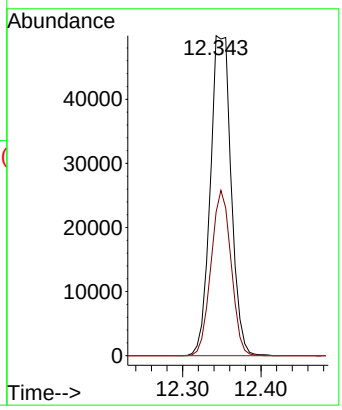




#71
Bromoform
Concen: 48.043 ug/l
RT: 12.343 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:173 Resp: 9229

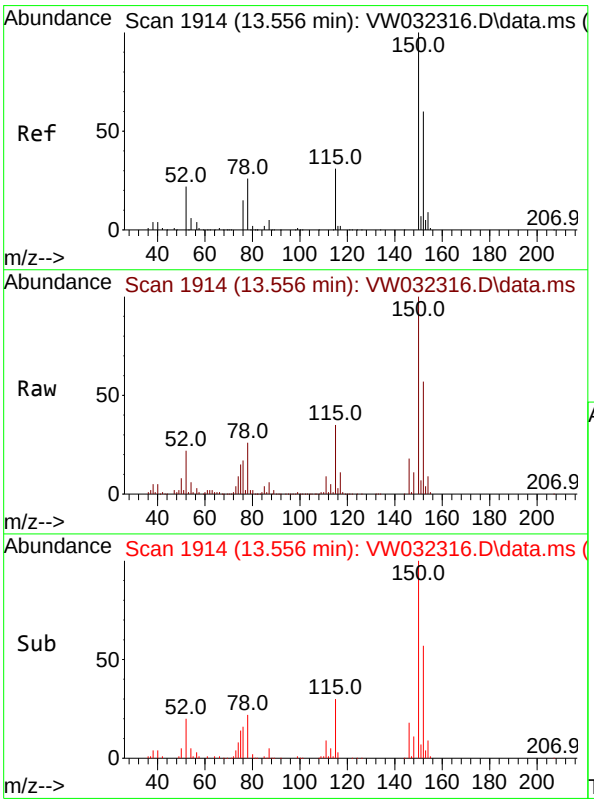
Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.9	74.7
254	0.0	0.2	0.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

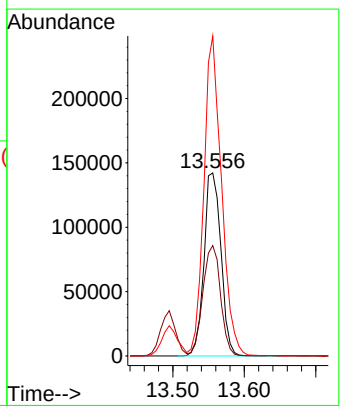
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

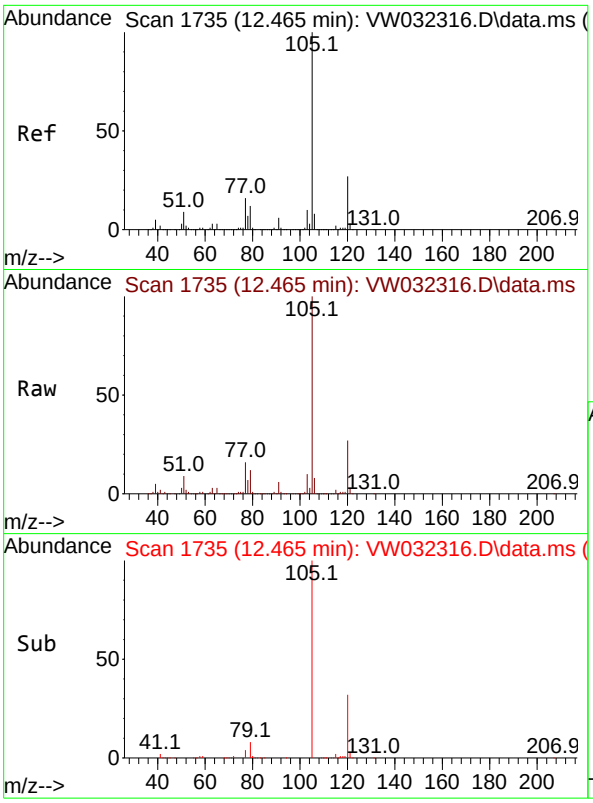


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:152 Resp: 234466

Ion	Ratio	Lower	Upper
152	100		
115	62.5	31.8	95.4
150	180.7	0.0	343.0

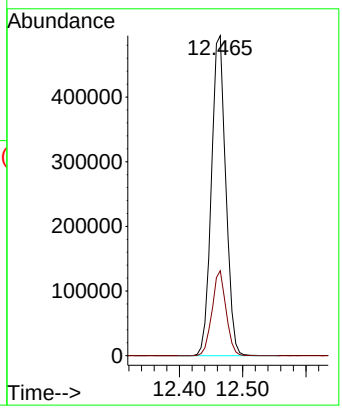




#73
Isopropylbenzene
Concen: 48.634 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:105 Resp: 78014

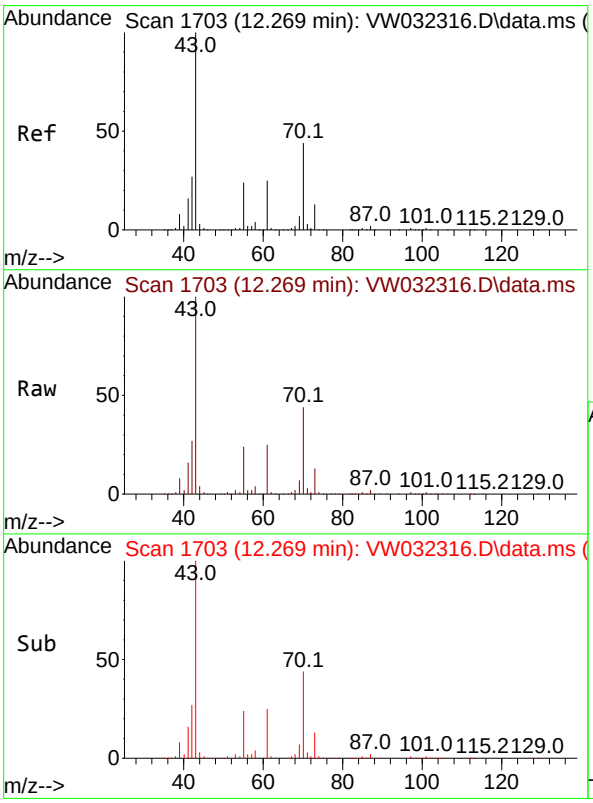
Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.0	38.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

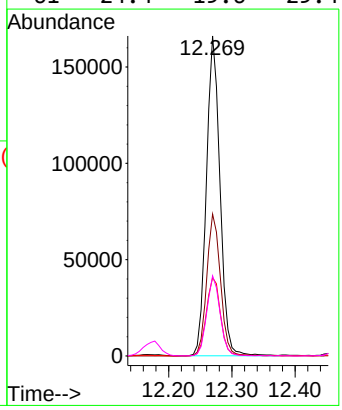
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

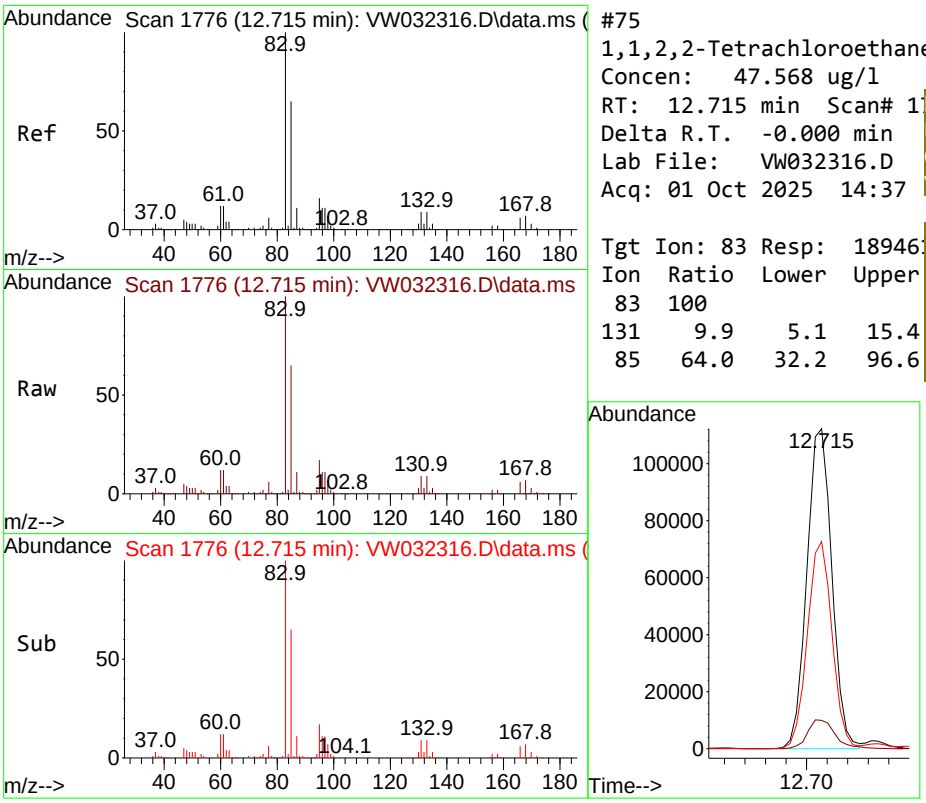


#74
N-amyl acetate
Concen: 48.711 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 43 Resp: 249273

Ion	Ratio	Lower	Upper
43	100		
70	44.8	35.3	52.9
55	25.7	19.9	29.9
61	24.4	19.6	29.4





#75
1,1,2,2-Tetrachloroethane
Concen: 47.568 ug/l
RT: 12.715 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

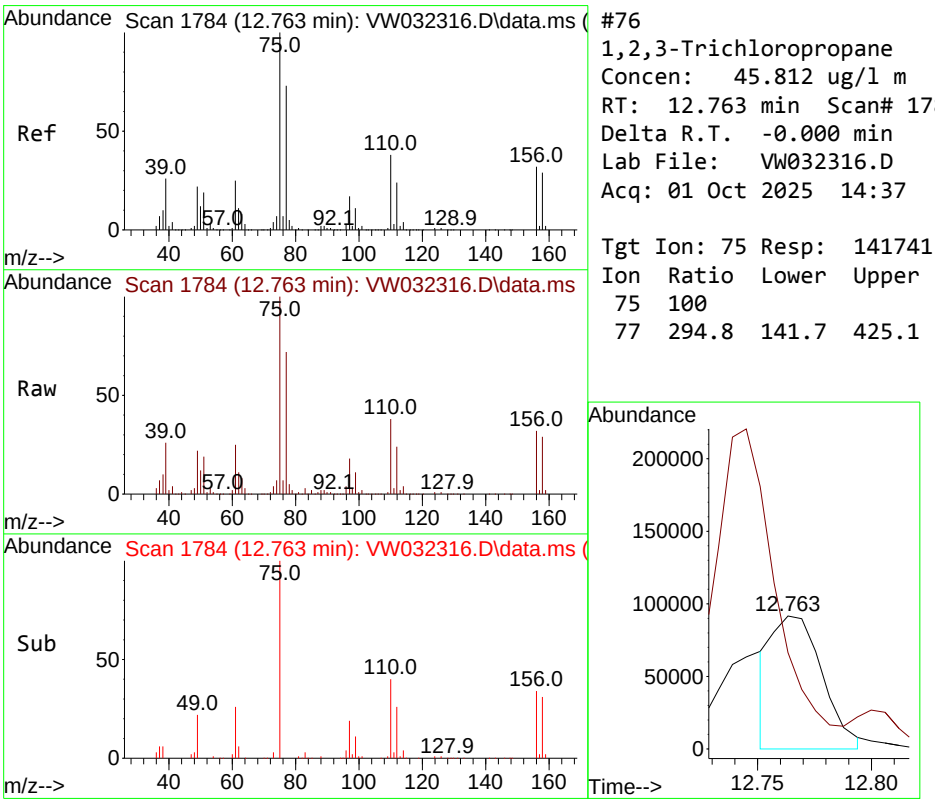
Tgt Ion: 83 Resp: 18946

Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	64.0	32.2	96.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

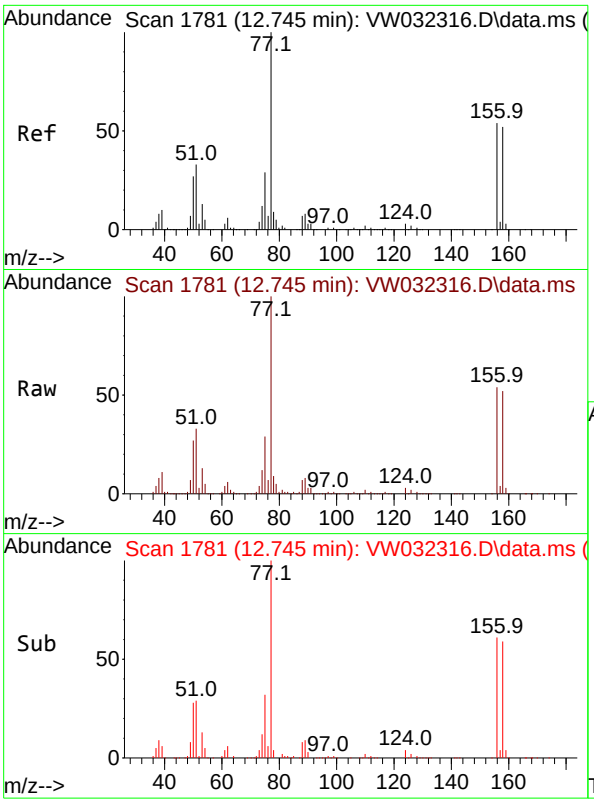
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025



#76
1,2,3-Trichloropropane
Concen: 45.812 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 75 Resp: 141741

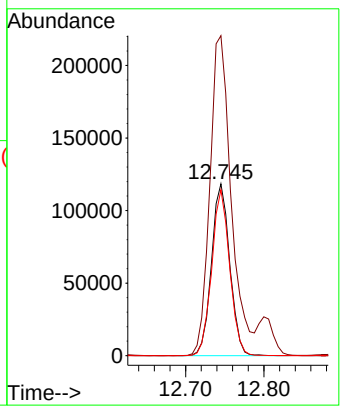
Ion	Ratio	Lower	Upper
75	100		
77	294.8	141.7	425.1



#77
Bromobenzene
Concen: 49.560 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:156 Resp: 19163

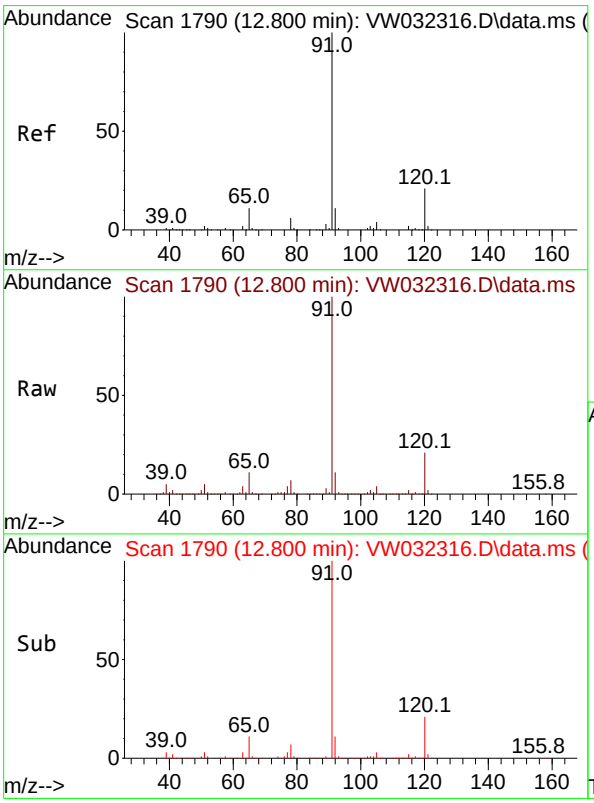
Ion	Ratio	Lower	Upper
156	100		
77	218.1	98.6	295.7
158	94.8	48.4	145.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

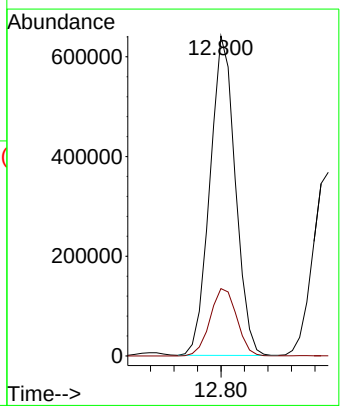
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

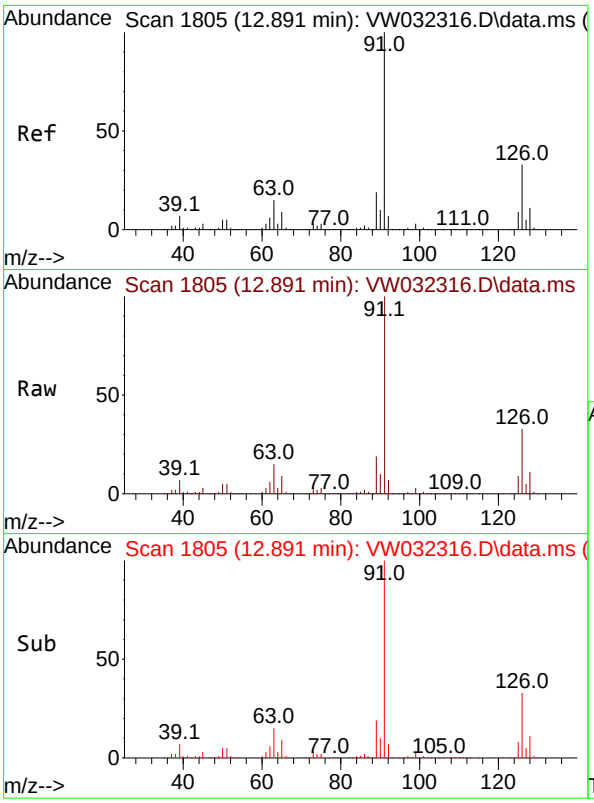


#78
n-propylbenzene
Concen: 47.974 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 91 Resp: 961286

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.8	35.4

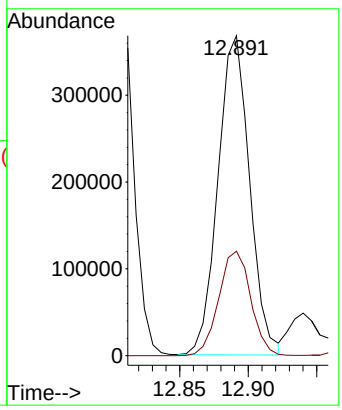




#79
2-Chlorotoluene
Concen: 48.227 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 91 Resp: 59086

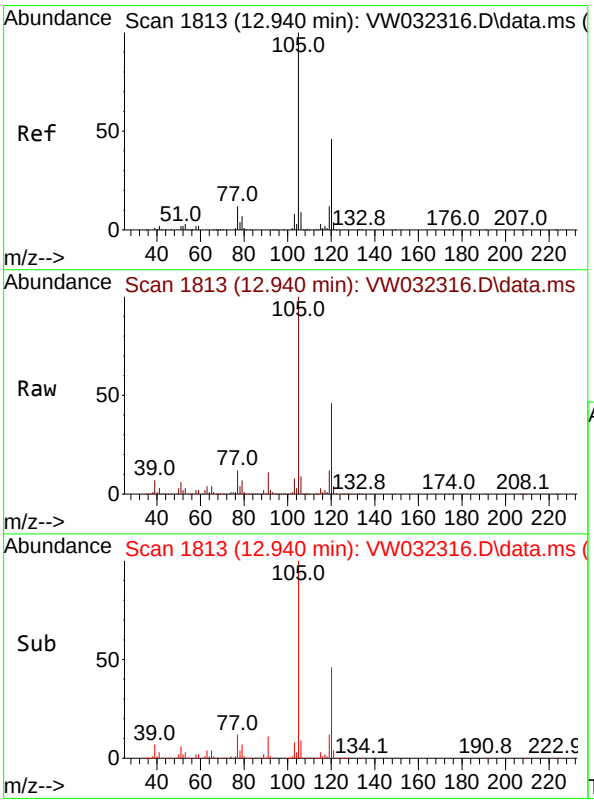
Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.6	49.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

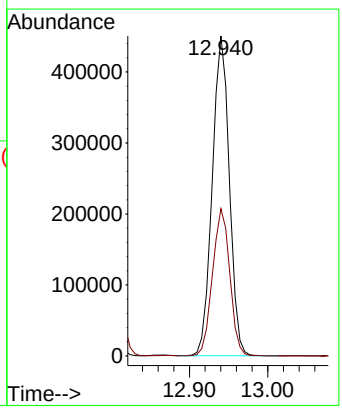
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

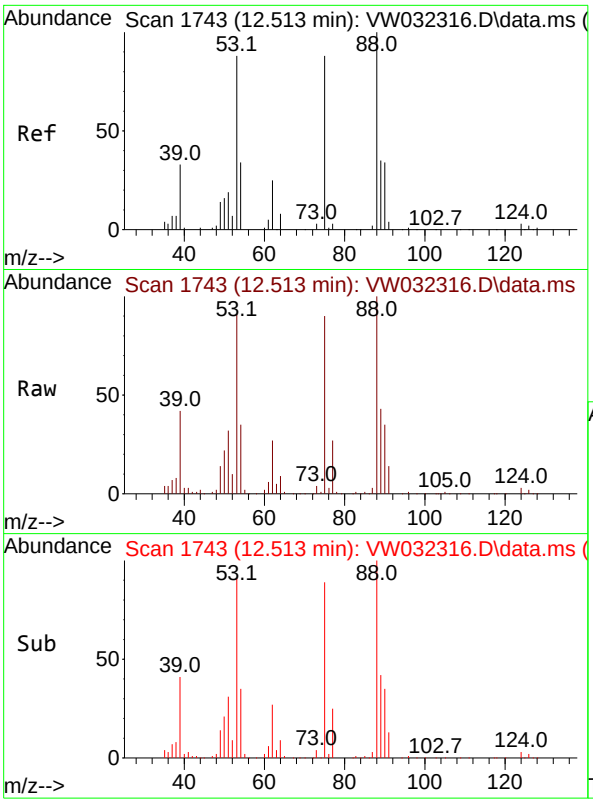


#80
1,3,5-Trimethylbenzene
Concen: 49.221 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:105 Resp: 682722

Ion	Ratio	Lower	Upper
105	100		
120	46.6	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 51.537 ug/l
RT: 12.513 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

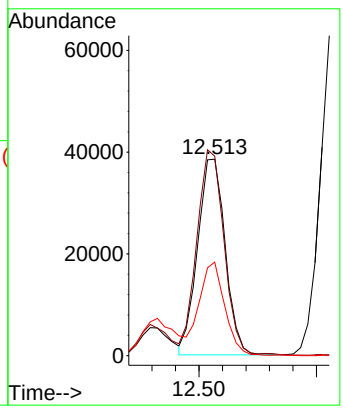
Tgt Ion: 75 Resp: 6277

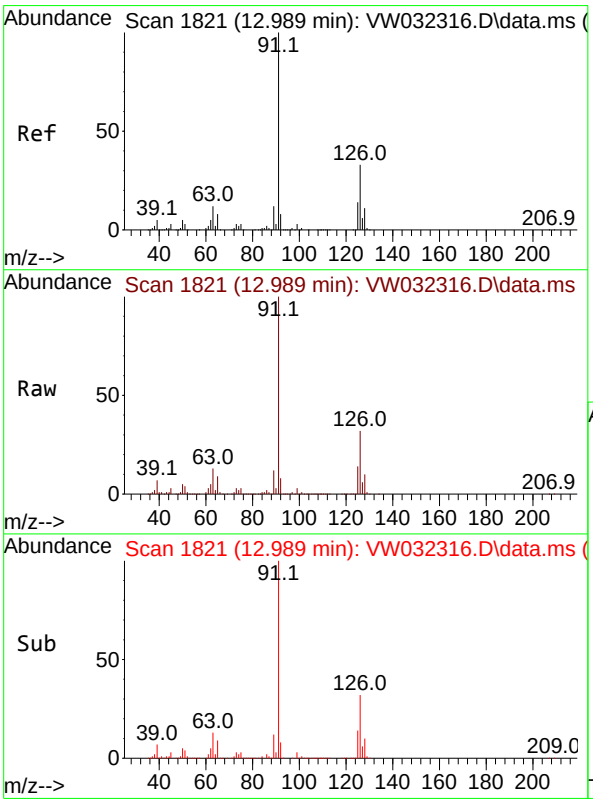
Ion	Ratio	Lower	Upper
75	100		
53	103.9	91.0	136.6
89	43.6	39.4	59.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

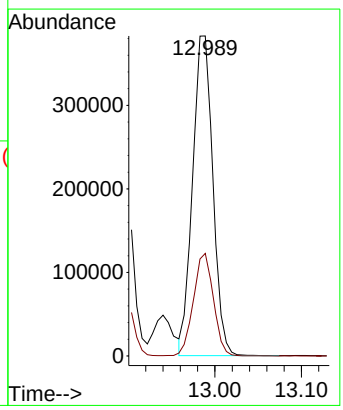


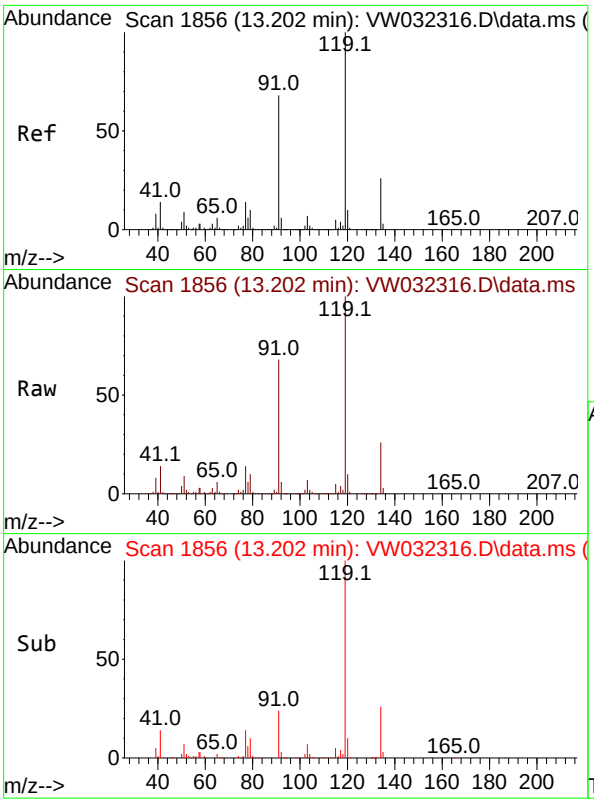


#82
4-Chlorotoluene
Concen: 47.694 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 91 Resp: 621247

Ion	Ratio	Lower	Upper
91	100		
126	31.8	16.1	48.2

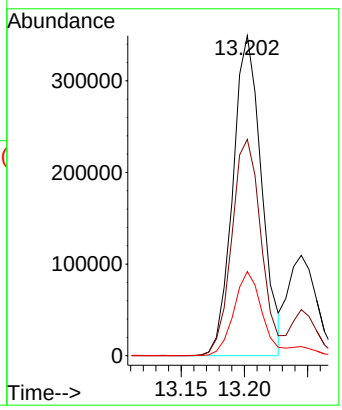




#83
tert-Butylbenzene
Concen: 48.551 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:119 Resp: 55255

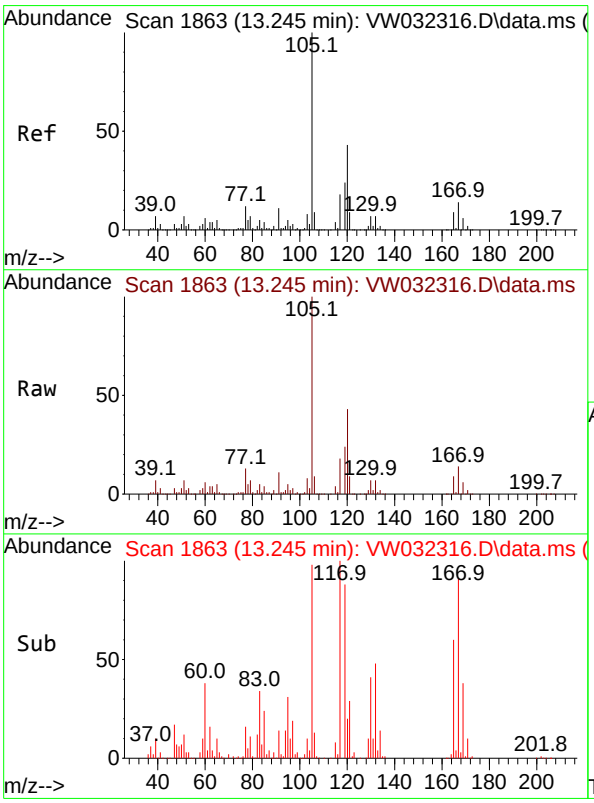
Ion	Ratio	Lower	Upper
119	100		
91	68.6	33.8	101.3
134	25.8	12.5	37.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

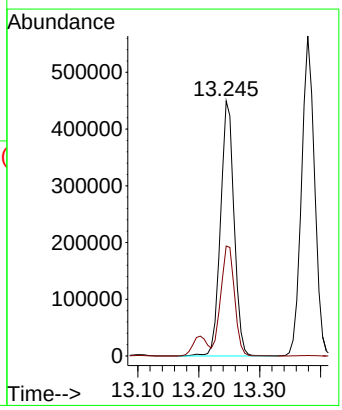
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

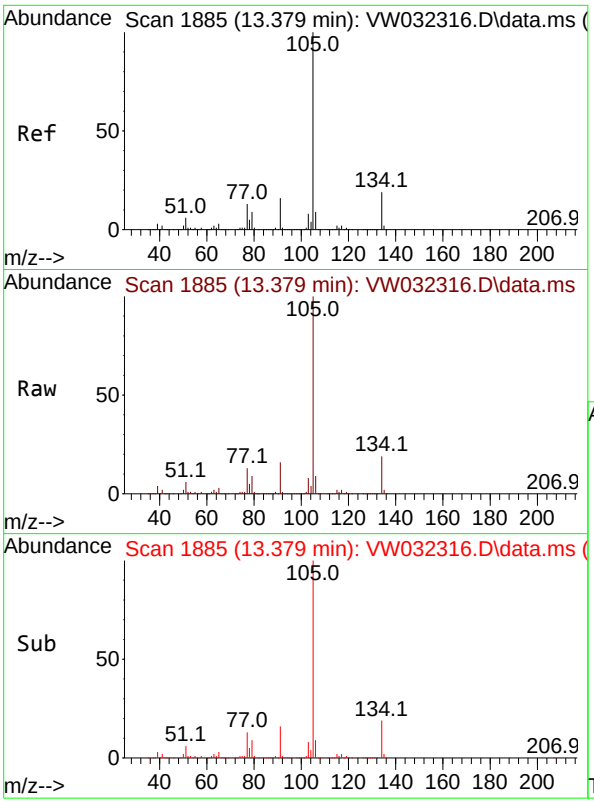


#84
1,2,4-Trimethylbenzene
Concen: 49.283 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:105 Resp: 695101

Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.1	66.3

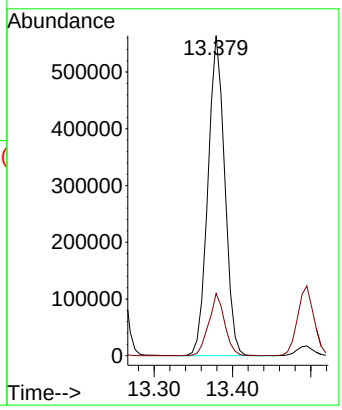




#85
sec-Butylbenzene
Concen: 48.102 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:105 Resp: 83659

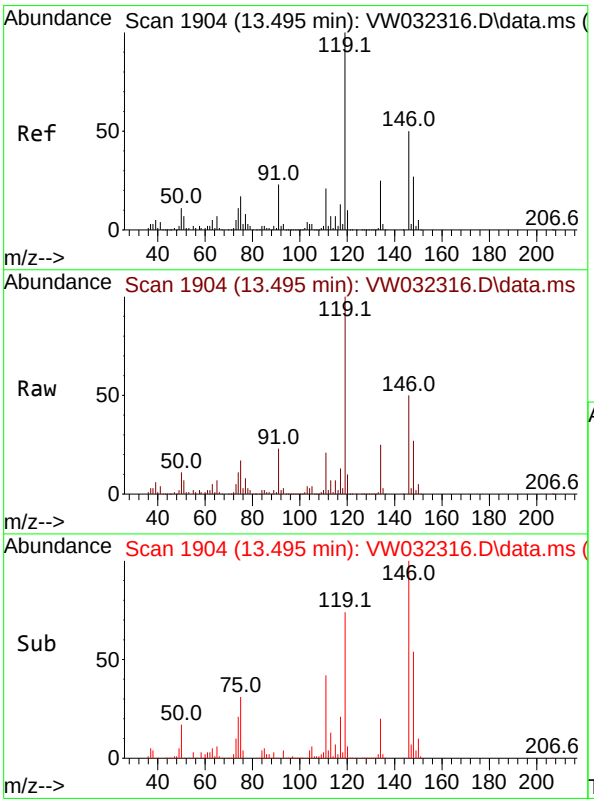
Ion	Ratio	Lower	Upper
105	100		
134	18.5	10.1	30.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

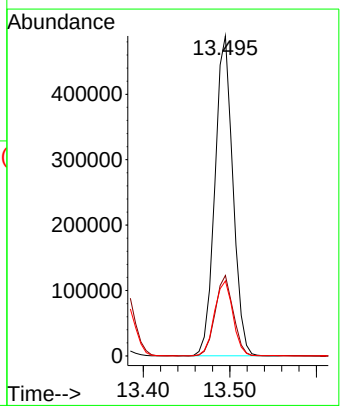
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

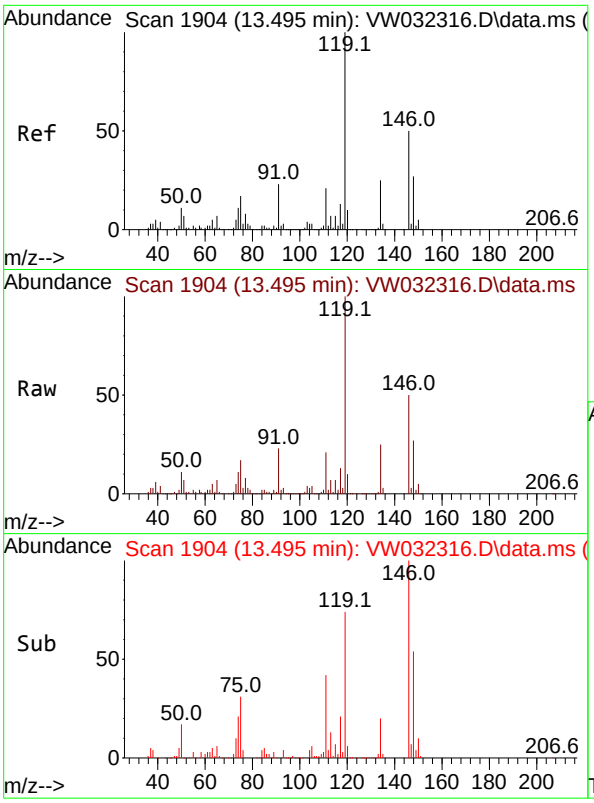


#86
p-Isopropyltoluene
Concen: 48.747 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:119 Resp: 703465

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.6	37.6
91	24.1	12.4	37.0

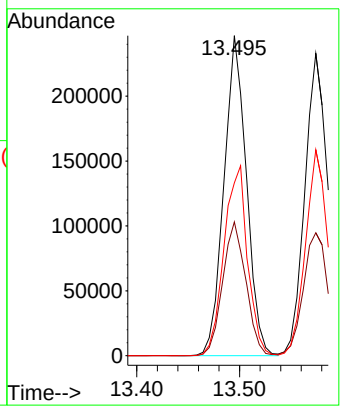




#87
1,3-Dichlorobenzene
Concen: 47.901 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:146 Resp: 37506

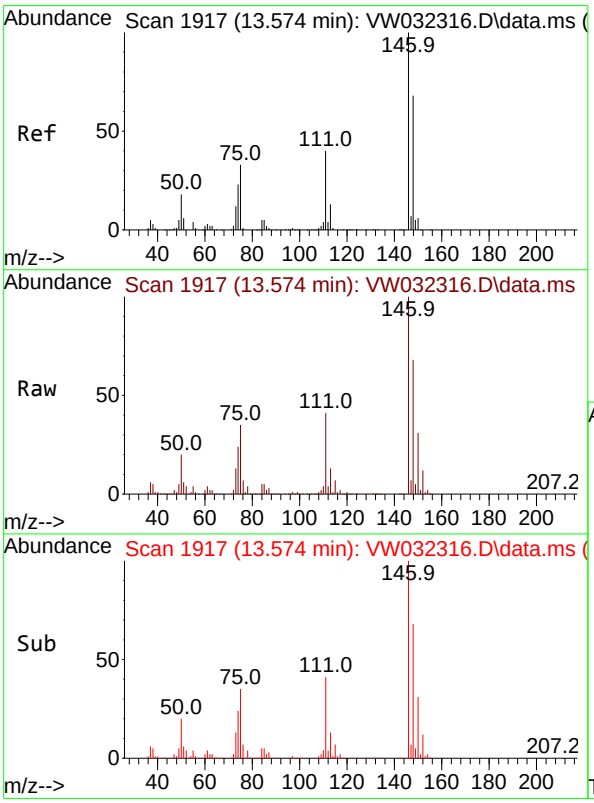
Ion	Ratio	Lower	Upper
146	100		
111	43.1	20.6	61.9
148	61.9	30.6	92.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

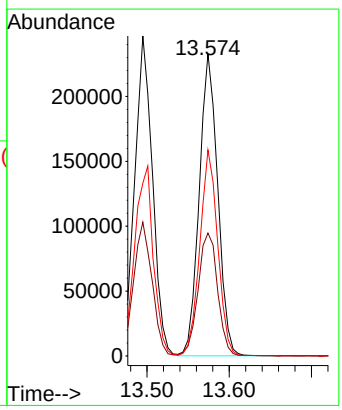
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

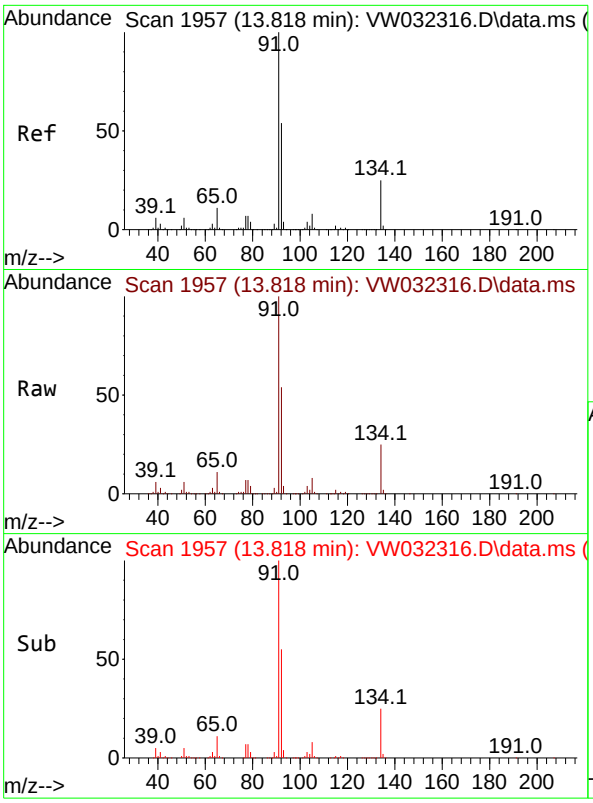


#88
1,4-Dichlorobenzene
Concen: 46.354 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:146 Resp: 362915

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.3	63.7
148	66.1	33.4	100.1

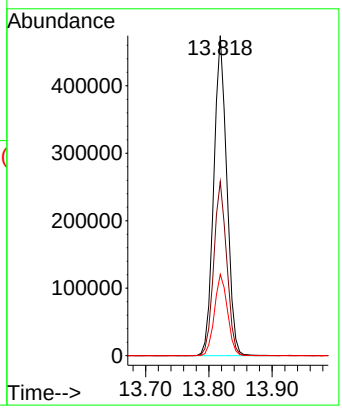




#89
n-Butylbenzene
Concen: 48.100 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 91 Resp: 67772

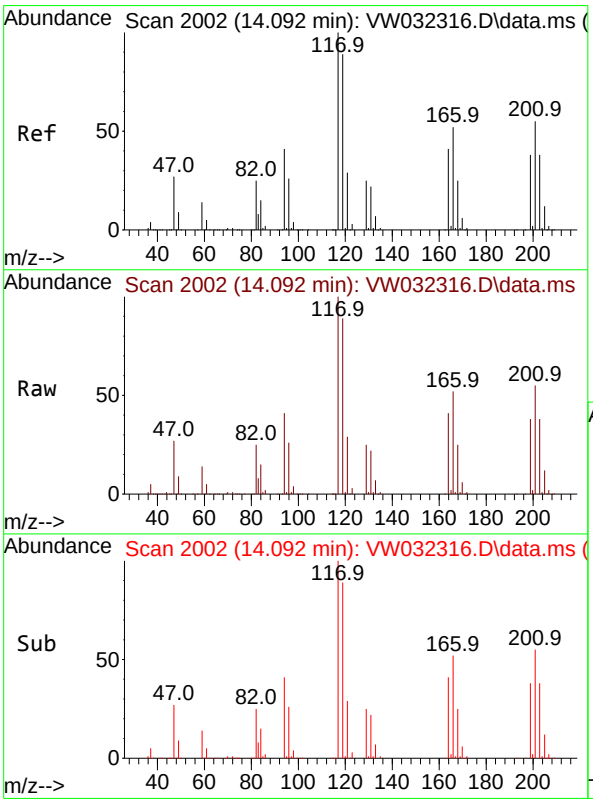
Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.0	81.0
134	25.4	13.1	39.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

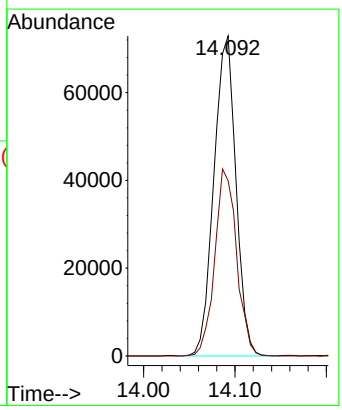
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

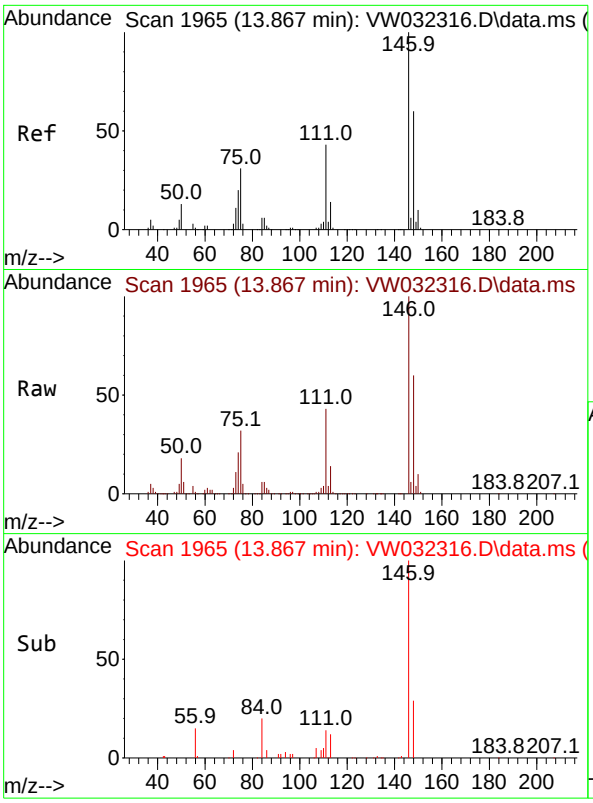


#90
Hexachloroethane
Concen: 47.269 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:117 Resp: 122267

Ion	Ratio	Lower	Upper
117	100		
201	57.9	32.8	98.4

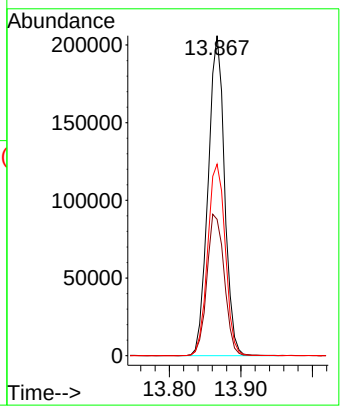




#91
1,2-Dichlorobenzene
Concen: 46.437 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:146 Resp: 32868

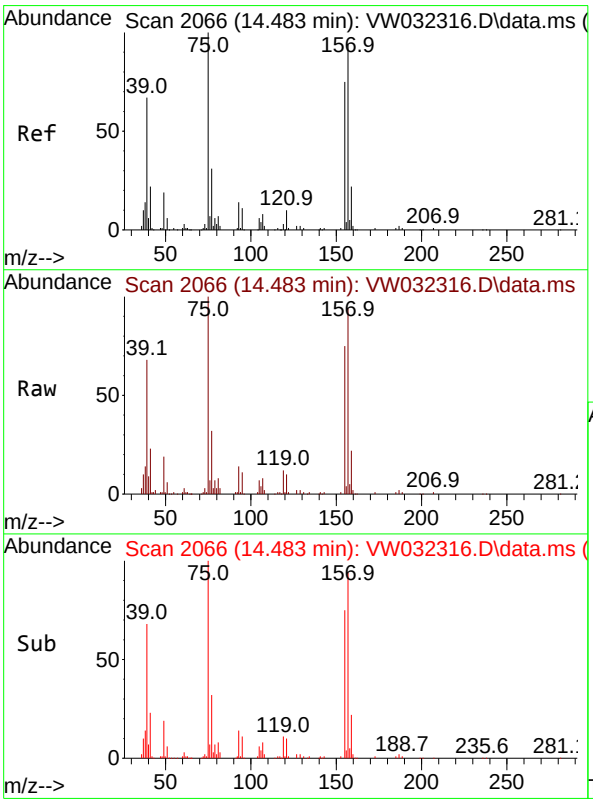
Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.4	70.0
148	64.0	34.1	102.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

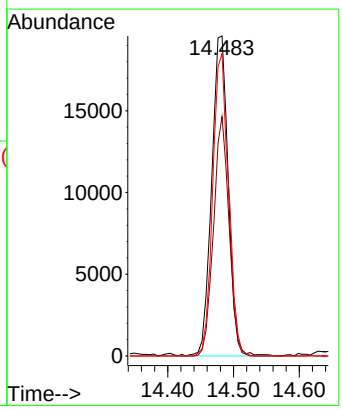
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

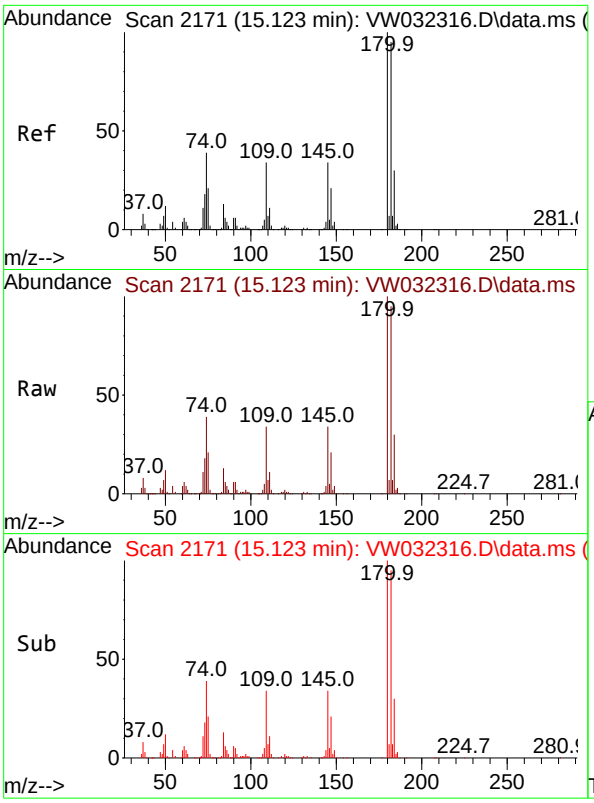


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.219 ug/l
RT: 14.483 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion: 75 Resp: 34323

Ion	Ratio	Lower	Upper
75	100		
155	69.4	40.8	122.5
157	90.3	51.8	155.4

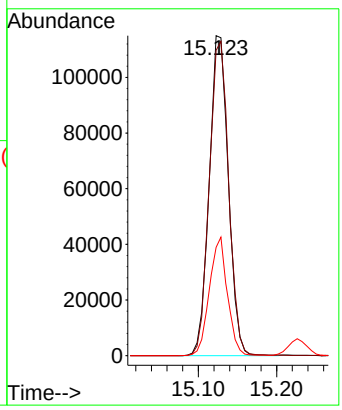




#93
1,2,4-Trichlorobenzene
Concen: 46.003 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:180 Resp: 19525

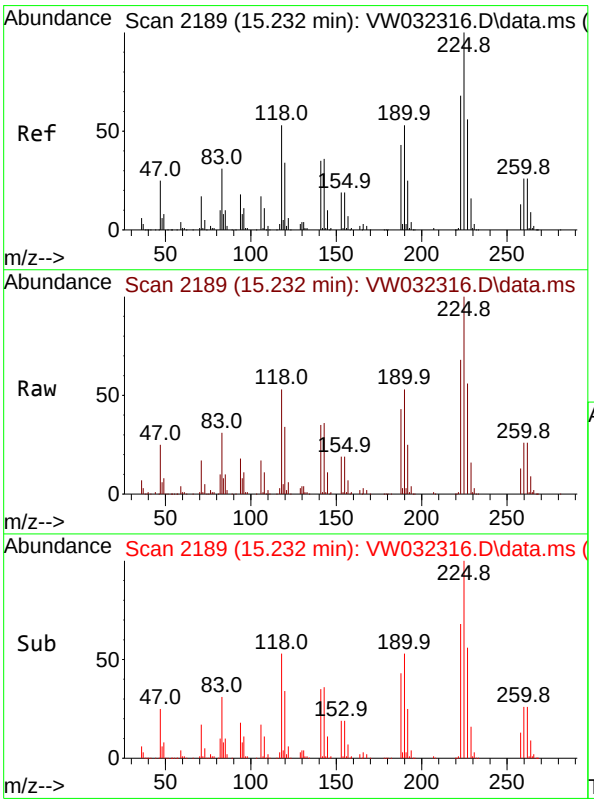
Ion	Ratio	Lower	Upper
180	100		
182	99.3	47.4	142.2
145	34.9	16.4	49.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

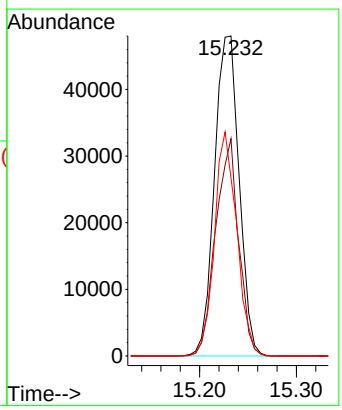
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

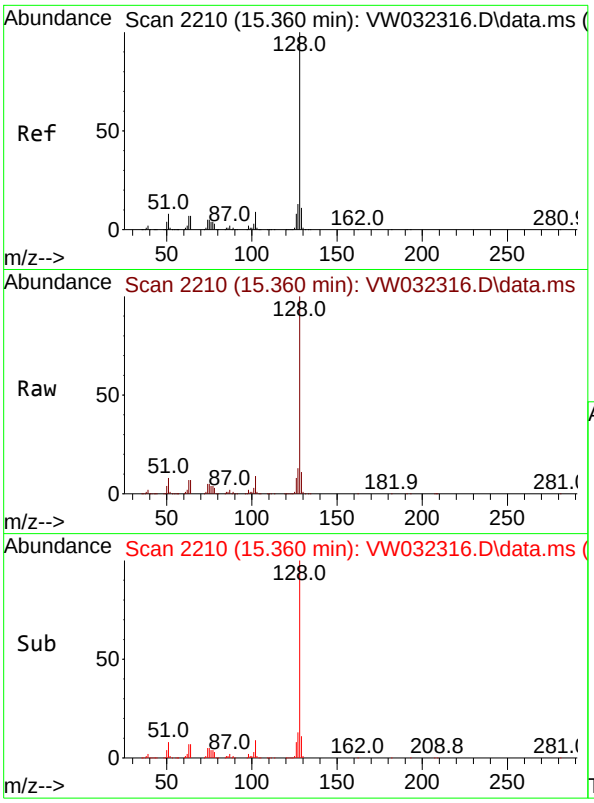


#94
Hexachlorobutadiene
Concen: 43.703 ug/l
RT: 15.232 min Scan# 2189
Delta R.T. 0.006 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:225 Resp: 84805

Ion	Ratio	Lower	Upper
225	100		
223	63.2	29.8	89.3
227	63.4	30.5	91.5

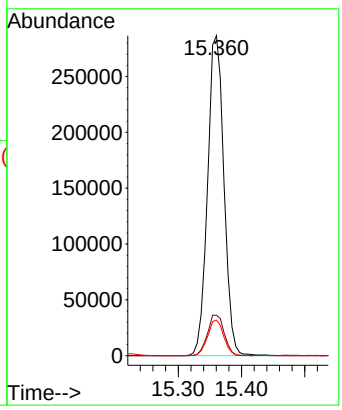




#95
Naphthalene
Concen: 50.483 ug/l
RT: 15.360 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:128 Resp: 51455

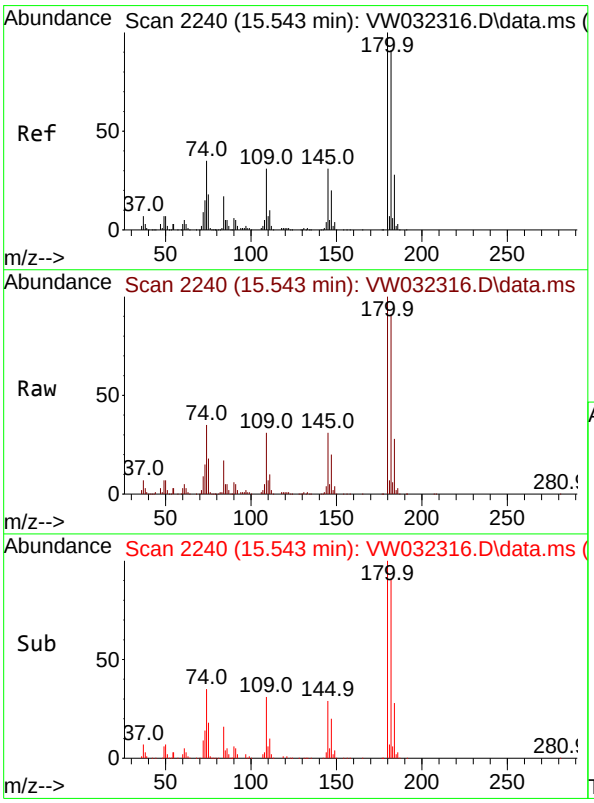
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	16.0
129	11.0	8.4	12.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

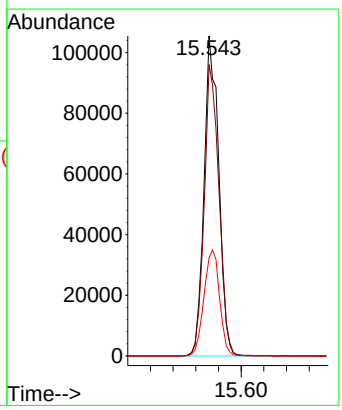
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 47.458 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.000 min
Lab File: VW032316.D
Acq: 01 Oct 2025 14:37

Tgt Ion:180 Resp: 189852

Ion	Ratio	Lower	Upper
180	100		
182	91.3	47.7	143.1
145	35.1	17.2	51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032317.D
Acq On : 01 Oct 2025 14:59
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	292547	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	528901	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	475984	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	231176	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	417484	97.841	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 195.680%#			
35) Dibromofluoromethane	7.898	113	350567	102.349	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 204.700%#			
50) Toluene-d8	10.331	98	1301655	102.965	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 205.920%#			
62) 4-Bromofluorobenzene	12.617	95	485396	101.586	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 203.180%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	165937	90.391	ug/l	98
3) Chloromethane	2.259	50	263109	92.885	ug/l	100
4) Vinyl Chloride	2.405	62	311778	92.194	ug/l	100
5) Bromomethane	2.820	94	228770	92.054	ug/l	94
6) Chloroethane	2.966	64	213270	95.521	ug/l	100
7) Trichlorofluoromethane	3.308	101	246809	97.475	ug/l	97
8) Diethyl Ether	3.722	74	210643	96.005	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.106	101	274433	90.363	ug/l	96
10) Methyl Iodide	4.308	142	411793	95.030	ug/l	99
11) Tert butyl alcohol	5.222	59	142390	440.862	ug/l	97
12) 1,1-Dichloroethene	4.076	96	312434	94.761	ug/l	90
13) Acrolein	3.930	56	241522	460.759	ug/l	100
14) Allyl chloride	4.704	41	538624	96.720	ug/l	89
15) Acrylonitrile	5.405	53	561280	491.730	ug/l	98
16) Acetone	4.161	43	508582	430.455	ug/l	99
17) Carbon Disulfide	4.423	76	887546	98.660	ug/l	100
18) Methyl Acetate	4.710	43	331793	98.033	ug/l	97
19) Methyl tert-butyl Ether	5.466	73	639931	98.544	ug/l	97
20) Methylene Chloride	4.960	84	368359	99.471	ug/l	96
21) trans-1,2-Dichloroethene	5.460	96	358450	98.197	ug/l	97
22) Diisopropyl ether	6.344	45	1141459	98.558	ug/l	91
23) Vinyl Acetate	6.283	43	3946823	510.205	ug/l	99
24) 1,1-Dichloroethane	6.246	63	683736	97.173	ug/l	98
25) 2-Butanone	7.197	43	767105	476.718	ug/l	99
26) 2,2-Dichloropropane	7.191	77	345332	95.948	ug/l	100
27) cis-1,2-Dichloroethene	7.191	96	433121	98.767	ug/l	95
28) Bromochloromethane	7.533	49	323538	97.732	ug/l	87
29) Tetrahydrofuran	7.551	42	499036	493.149	ug/l	94
30) Chloroform	7.691	83	697012	97.676	ug/l	96
31) Cyclohexane	7.971	56	544824	90.699	ug/l	94
32) 1,1,1-Trichloroethane	7.886	97	488662	96.637	ug/l	100
36) 1,1-Dichloropropene	8.093	75	486510	100.644	ug/l	98
37) Ethyl Acetate	7.277	43	322862	100.344	ug/l	99
38) Carbon Tetrachloride	8.081	117	458732	100.845	ug/l	90
39) Methylcyclohexane	9.343	83	601153	103.099	ug/l	98
40) Benzene	8.337	78	1506339	99.416	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032317.D
Acq On : 01 Oct 2025 14:59
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	181036	104.404	ug/l		92
42) 1,2-Dichloroethane	8.410	62	487667	98.363	ug/l		99
43) Isopropyl Acetate	8.435	43	597878	104.746	ug/l		100
44) Trichloroethene	9.099	130	359102	101.217	ug/l		90
45) 1,2-Dichloropropane	9.380	63	375302	99.234	ug/l		99
46) Dibromomethane	9.465	93	231385	99.495	ug/l		95
47) Bromodichloromethane	9.654	83	542848	102.055	ug/l		96
48) Methyl methacrylate	9.441	41	293582	105.789	ug/l	#	91
49) 1,4-Dioxane	9.465	88	66922	2105.342	ug/l		98
51) 4-Methyl-2-Pentanone	10.215	43	1663070	503.045	ug/l		100
52) Toluene	10.392	92	960973	101.843	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	555072	107.561	ug/l		99
54) cis-1,3-Dichloropropene	10.081	75	625271	105.188	ug/l		92
55) 1,1,2-Trichloroethane	10.788	97	309412	99.546	ug/l		98
56) Ethyl methacrylate	10.648	69	477191	109.686	ug/l		95
57) 1,3-Dichloropropane	10.934	76	548954	99.997	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	1282918	554.092	ug/l		96
59) 2-Hexanone	10.971	43	1177144	504.847	ug/l		99
60) Dibromochloromethane	11.129	129	375002	106.254	ug/l		99
61) 1,2-Dibromoethane	11.239	107	301749	99.562	ug/l		97
64) Tetrachloroethene	10.867	164	273519	96.034	ug/l		88
65) Chlorobenzene	11.660	112	1041724	99.469	ug/l		97
66) 1,1,1,2-Tetrachloroethane	11.733	131	334400	102.516	ug/l		98
67) Ethyl Benzene	11.733	91	1805810	103.444	ug/l		97
68) m/p-Xylenes	11.837	106	1390632	206.584	ug/l		98
69) o-Xylene	12.166	106	667671	106.061	ug/l		99
70) Styrene	12.178	104	1128688	102.692	ug/l		99
71) Bromoform	12.349	173	192066	102.725	ug/l	#	100
73) Isopropylbenzene	12.465	105	1685355	106.560	ug/l		100
74) N-amyl acetate	12.270	43	540543	107.133	ug/l		100
75) 1,1,2,2-Tetrachloroethane	12.715	83	385347	98.125	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	295124m	96.745	ug/l		
77) Bromobenzene	12.745	156	396745	104.063	ug/l		92
78) n-propylbenzene	12.800	91	2052249	103.878	ug/l		97
79) 2-Chlorotoluene	12.885	91	1213767	100.479	ug/l		97
80) 1,3,5-Trimethylbenzene	12.940	105	1439767	105.277	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	135383	112.737	ug/l		88
82) 4-Chlorotoluene	12.989	91	1299440	101.179	ug/l		99
83) tert-Butylbenzene	13.202	119	1179238	105.090	ug/l		98
84) 1,2,4-Trimethylbenzene	13.245	105	1445279	103.930	ug/l		99
85) sec-Butylbenzene	13.379	105	1756008	102.403	ug/l		99
86) p-Isopropyltoluene	13.495	119	1460991	102.680	ug/l		100
87) 1,3-Dichlorobenzene	13.495	146	766586	99.297	ug/l		98
88) 1,4-Dichlorobenzene	13.574	146	767903	99.477	ug/l		95
89) n-Butylbenzene	13.818	91	1440709	103.706	ug/l		98
90) Hexachloroethane	14.092	117	265991	104.296	ug/l		93
91) 1,2-Dichlorobenzene	13.867	146	678218	97.184	ug/l		95
92) 1,2-Dibromo-3-Chloropr...	14.483	75	67919	98.781	ug/l		89
93) 1,2,4-Trichlorobenzene	15.129	180	433724	103.645	ug/l		97
94) Hexachlorobutadiene	15.232	225	191123	99.894	ug/l		97
95) Naphthalene	15.360	128	1054202	104.900	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	399527	101.292	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032317.D
Acq On : 01 Oct 2025 14:59
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

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

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

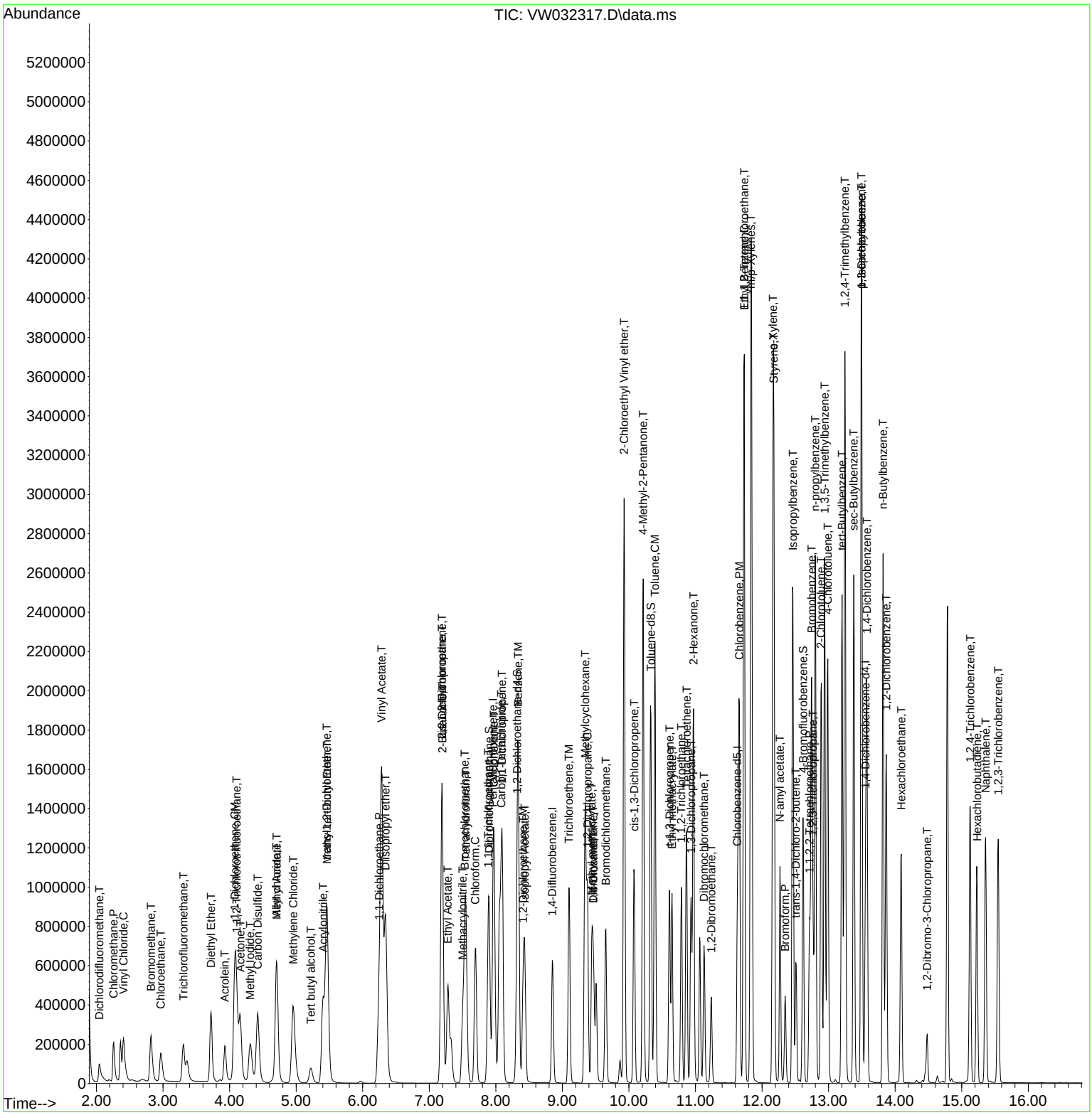
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032317.D
Acq On : 01 Oct 2025 14:59
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

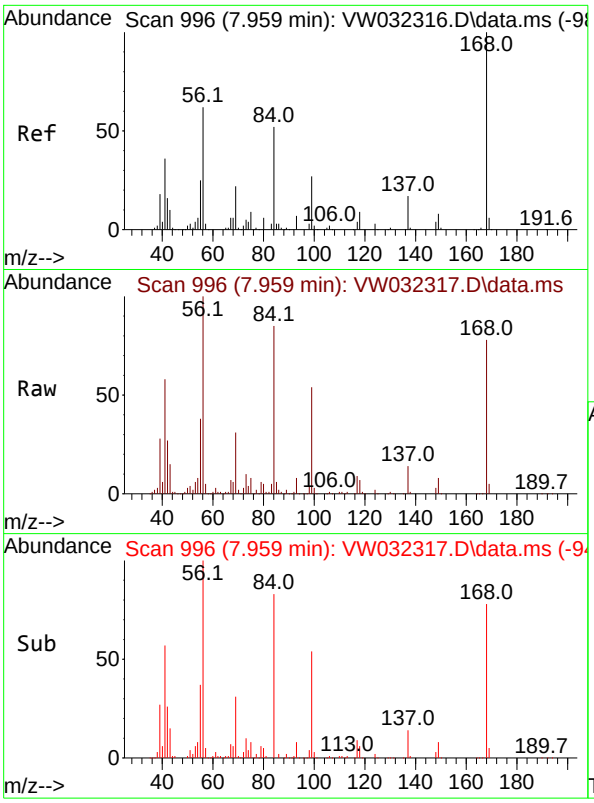
Quant Time: Oct 02 21:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

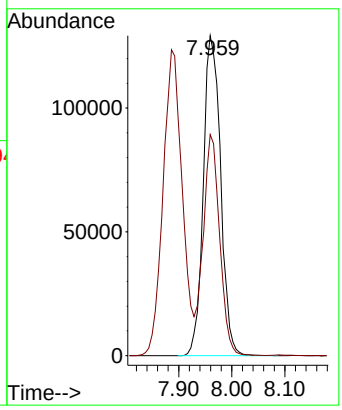




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:168 Resp: 29254

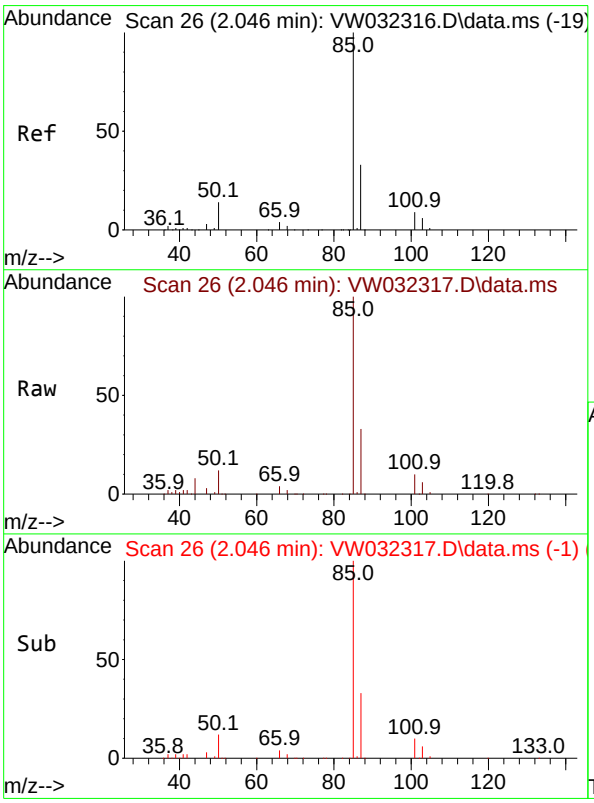
Ion	Ratio	Lower	Upper
168	100		
99	68.8	49.3	73.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

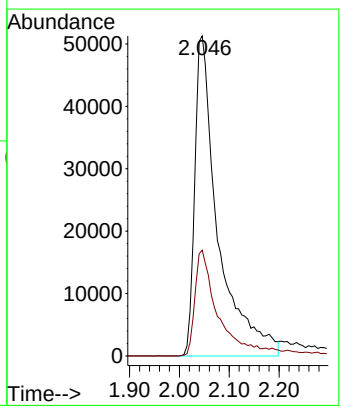
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

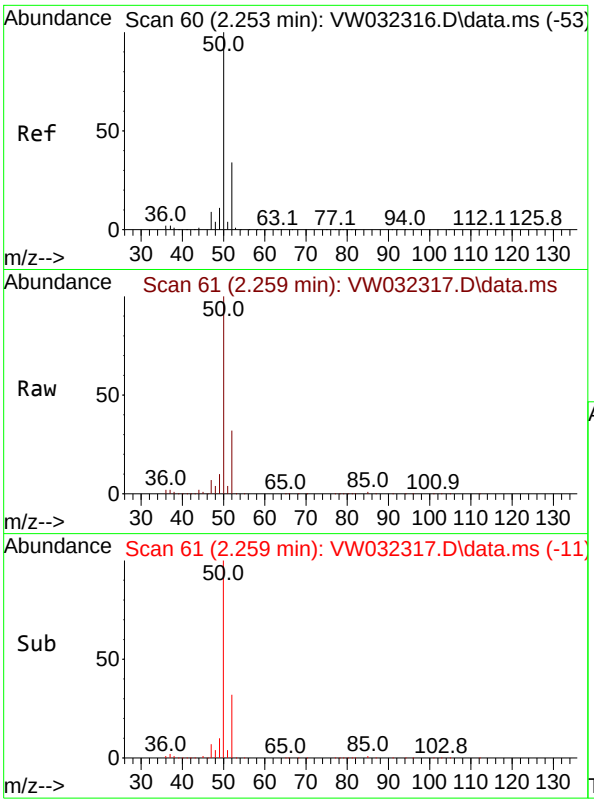


#2
Dichlorodifluoromethane
Concen: 90.391 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 85 Resp: 165937

Ion	Ratio	Lower	Upper
85	100		
87	33.0	17.2	51.6

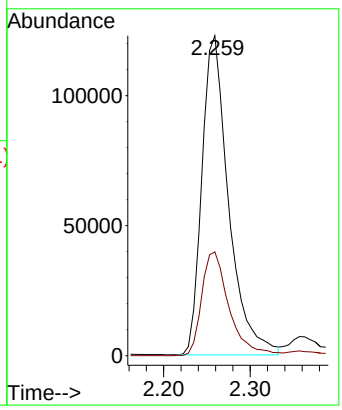




#3
Chloromethane
Concen: 92.885 ug/l
RT: 2.259 min Scan# 6
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 50 Resp: 26310

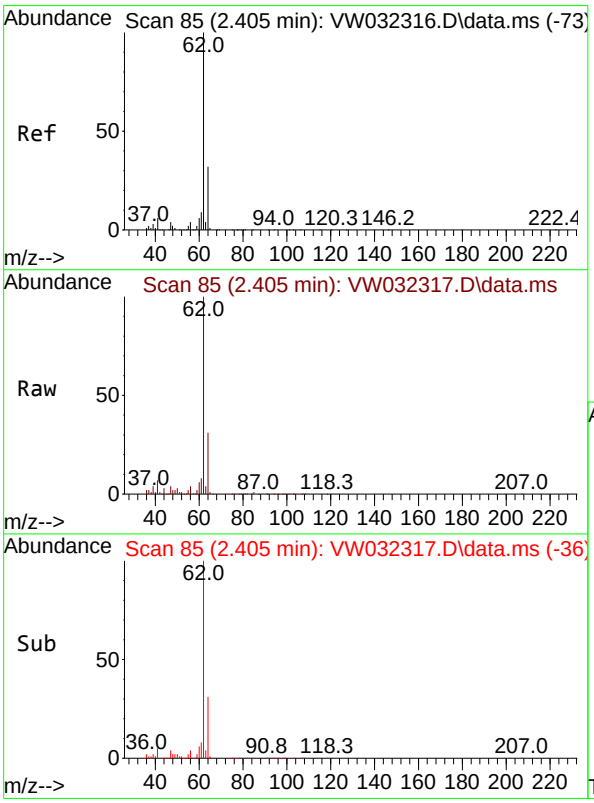
Ion	Ratio	Lower	Upper
50	100		
52	32.4	26.1	39.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

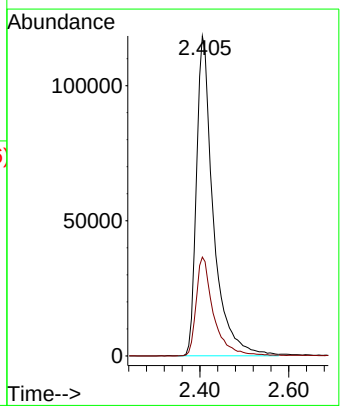
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

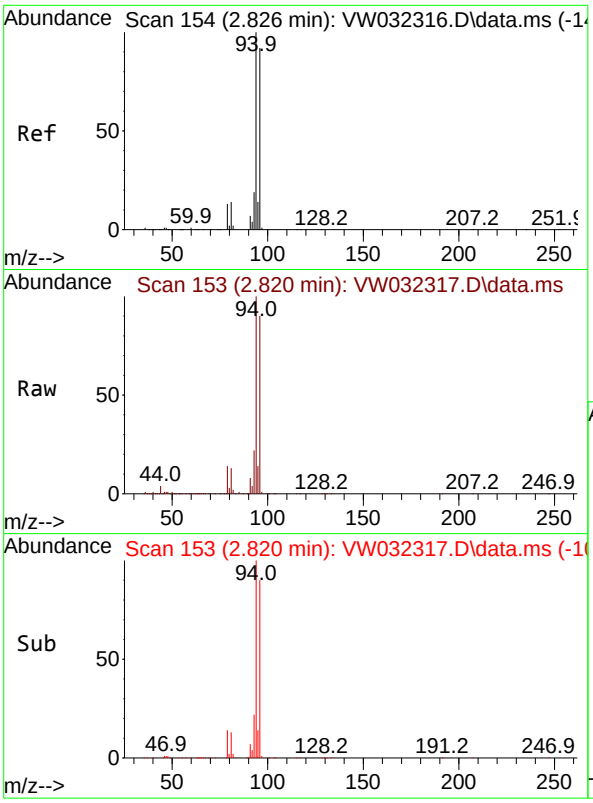


#4
Vinyl Chloride
Concen: 92.194 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 62 Resp: 311778

Ion	Ratio	Lower	Upper
62	100		
64	30.9	24.8	37.2

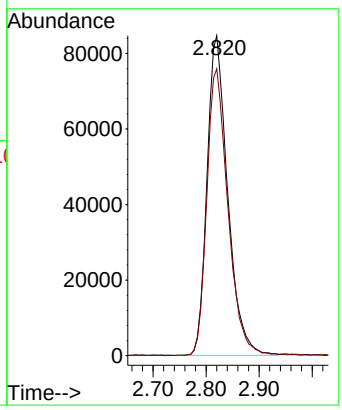




#5
Bromomethane
Concen: 92.054 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 94 Resp: 22877

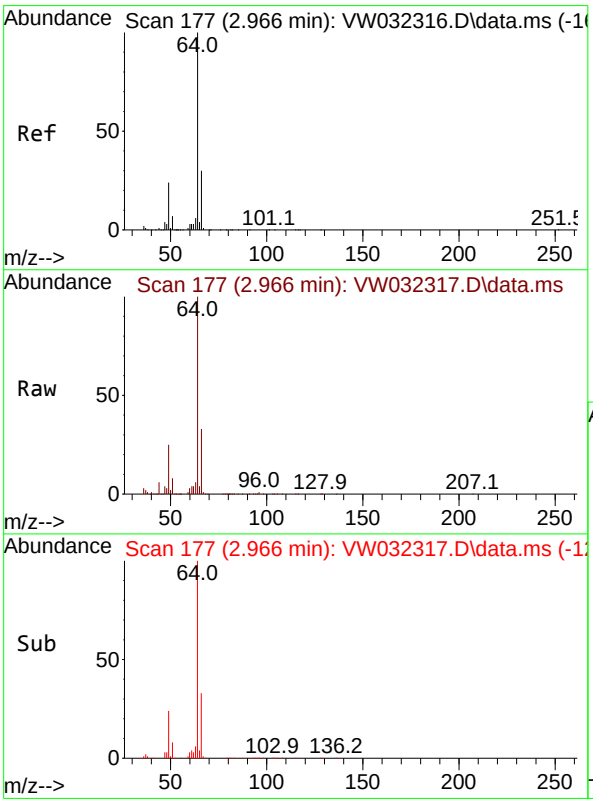
Ion	Ratio	Lower	Upper
94	100		
96	89.6	76.6	115.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

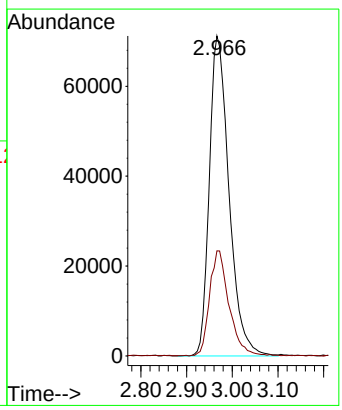
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

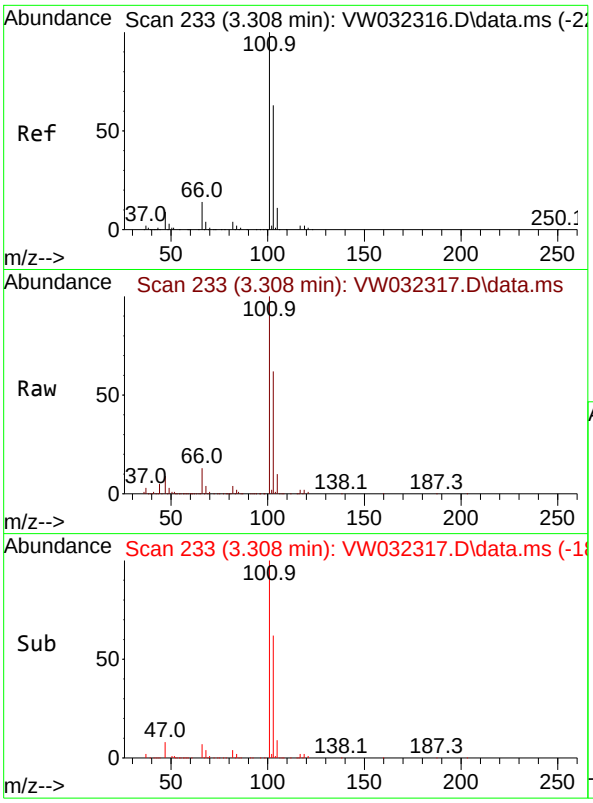


#6
Chloroethane
Concen: 95.521 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 64 Resp: 213270

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.2	39.4

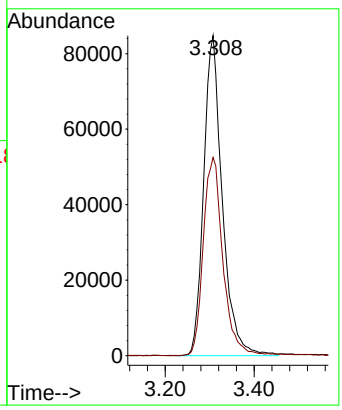




#7
Trichlorofluoromethane
Concen: 97.475 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:101 Resp: 24680

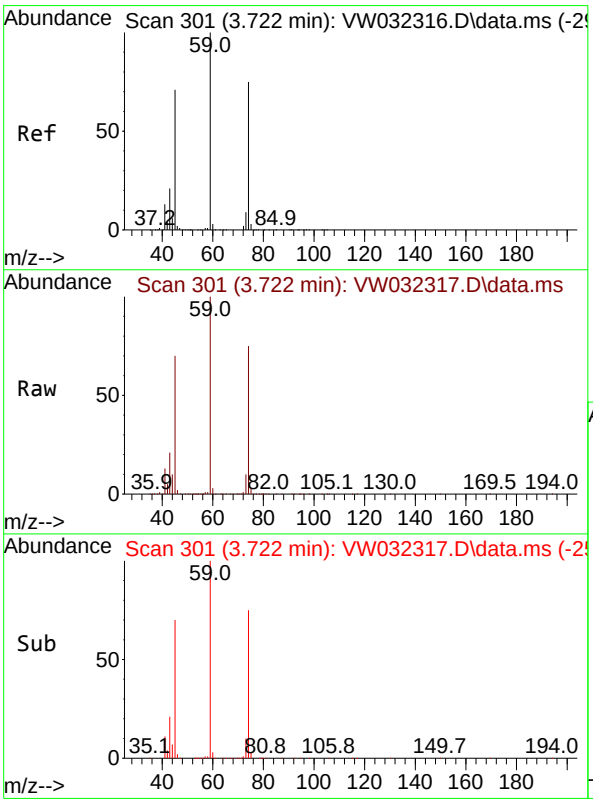
Ion	Ratio	Lower	Upper
101	100		
103	61.9	47.8	71.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

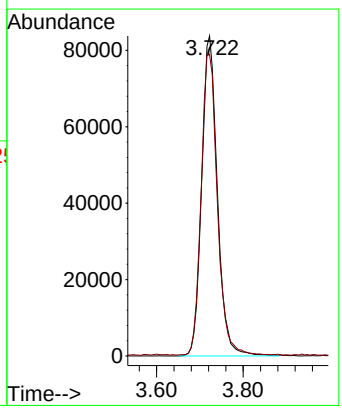
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

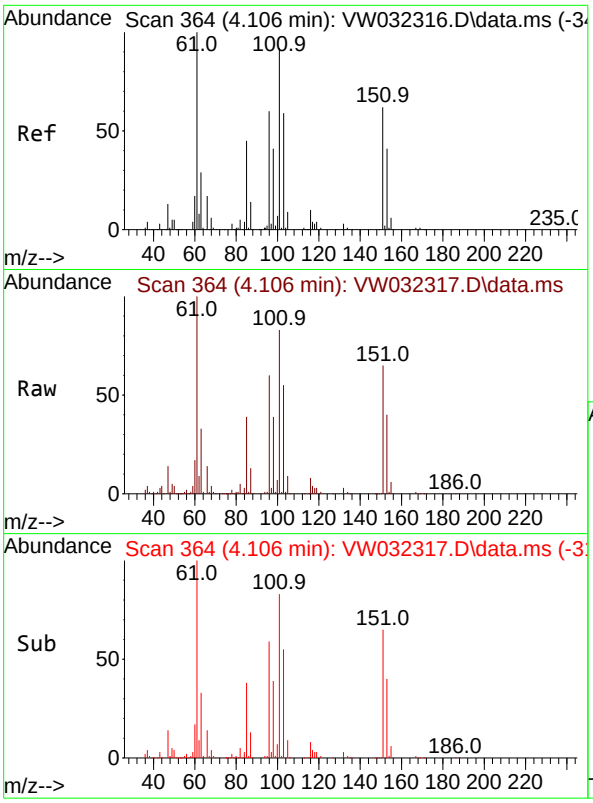


#8
Diethyl Ether
Concen: 96.005 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 74 Resp: 210643

Ion	Ratio	Lower	Upper
74	100		
45	97.2	43.1	129.4





#9
1,1,2-Trichlorotrifluoroethane
Concen: 90.363 ug/l
RT: 4.106 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

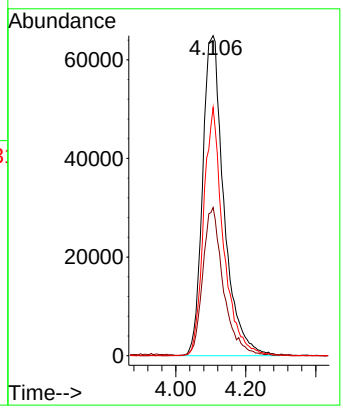
Tgt Ion:101 Resp: 27443

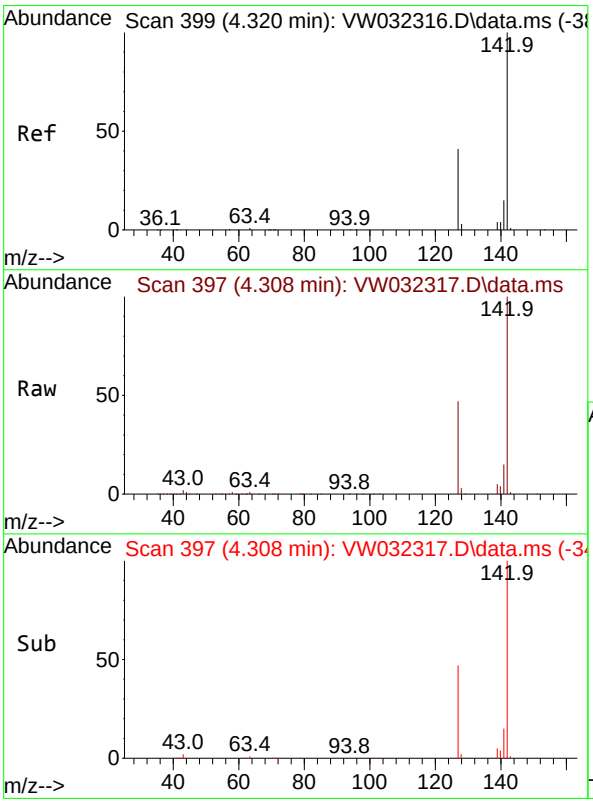
Ion	Ratio	Lower	Upper
101	100		
85	44.8	37.1	55.7
151	72.0	61.5	92.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

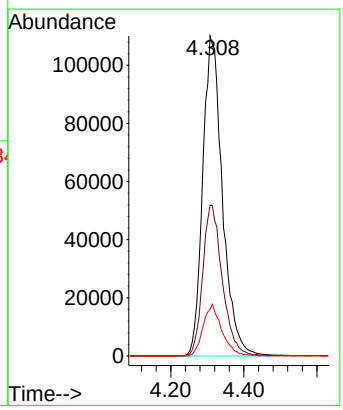


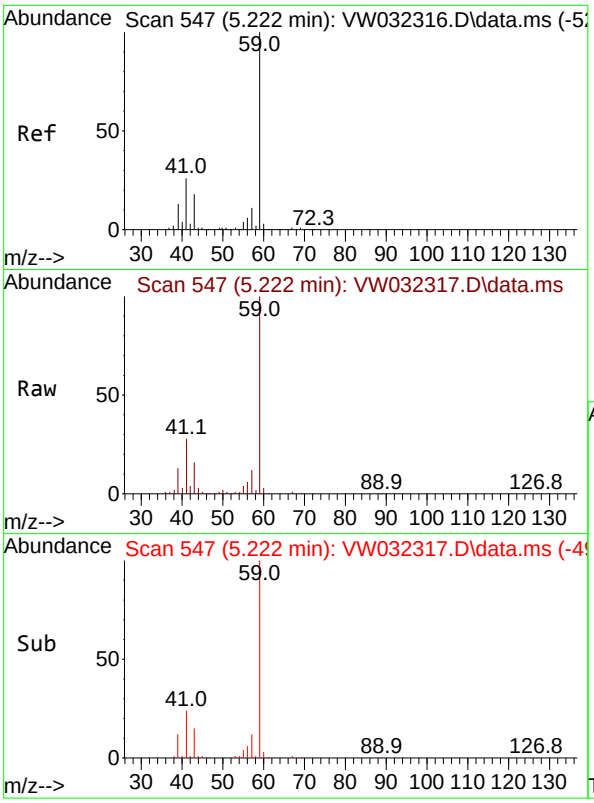


#10
Methyl Iodide
Concen: 95.030 ug/l
RT: 4.308 min Scan# 397
Delta R.T. -0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:142 Resp: 411793

Ion	Ratio	Lower	Upper
142	100		
127	46.9	38.2	57.2
141	15.3	12.2	18.2

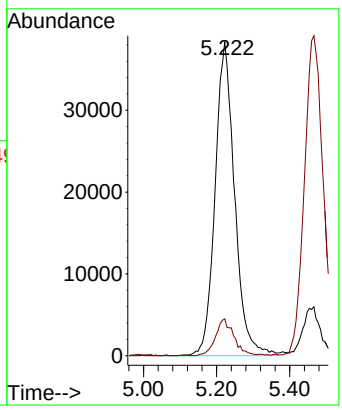




#11
Tert butyl alcohol
Concen: 440.862 ug/l
RT: 5.222 min Scan# 54
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 59 Resp: 14239

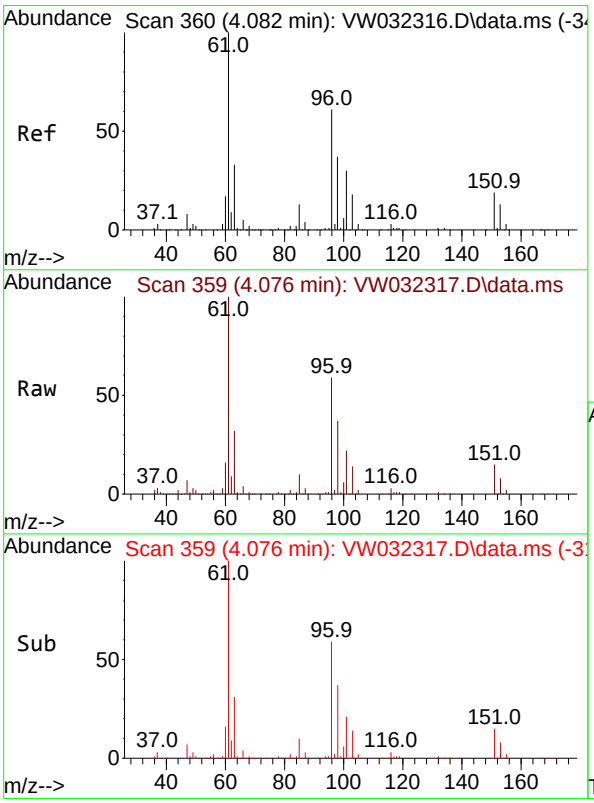
Ion	Ratio	Lower	Upper
59	100		
57	11.0	9.8	14.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

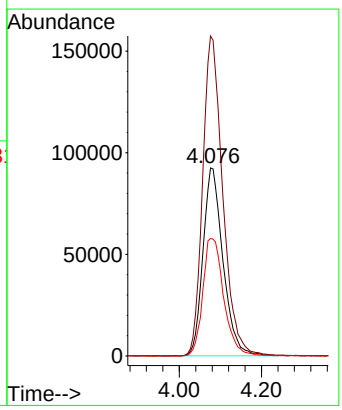
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

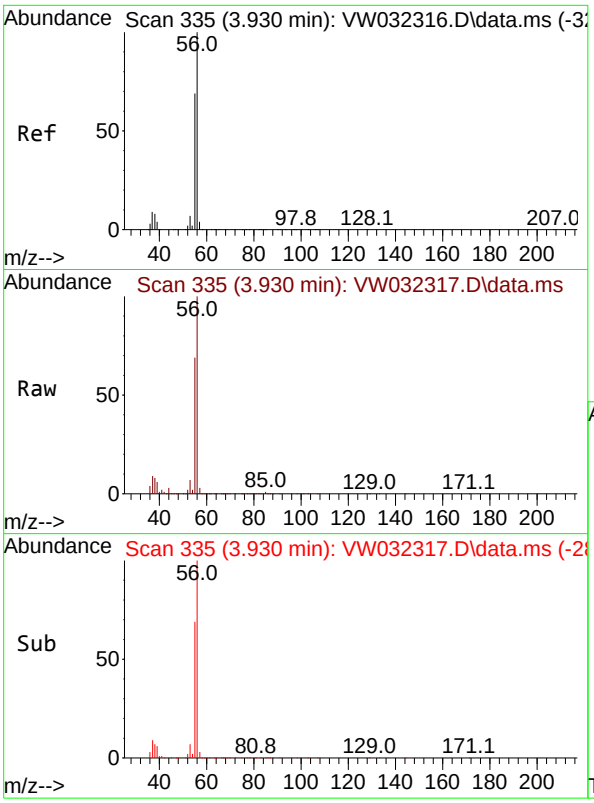


#12
1,1-Dichloroethene
Concen: 94.761 ug/l
RT: 4.076 min Scan# 359
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 96 Resp: 312434

Ion	Ratio	Lower	Upper
96	100		
61	170.2	123.0	184.4
98	62.5	48.5	72.7

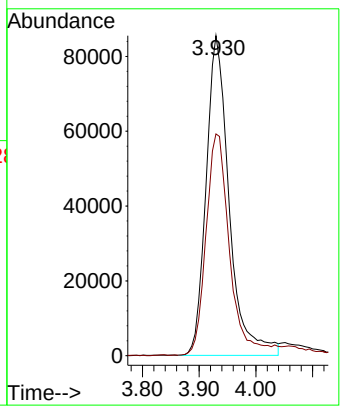




#13
Acrolein
Concen: 460.759 ug/l
RT: 3.930 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 56 Resp: 24152

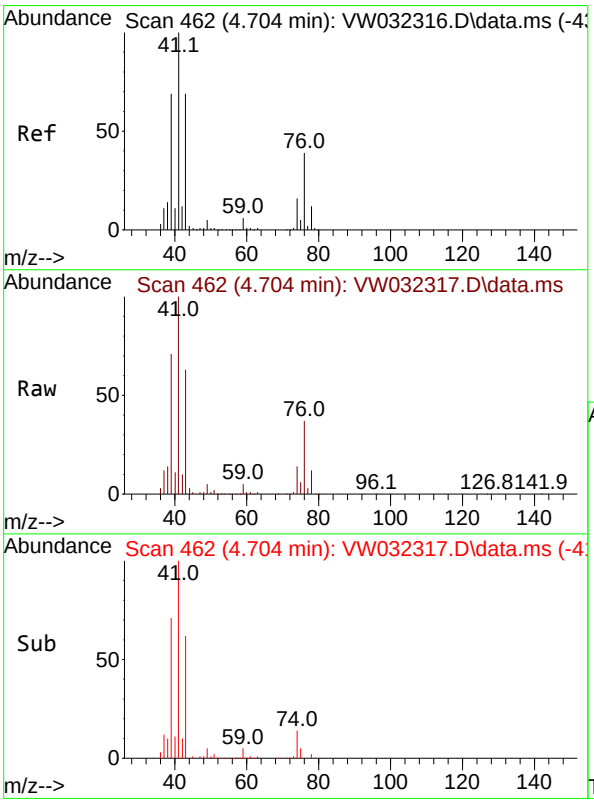
Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.4	84.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

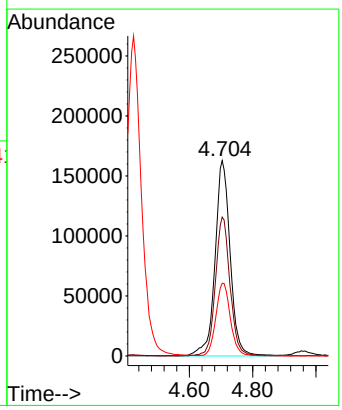
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

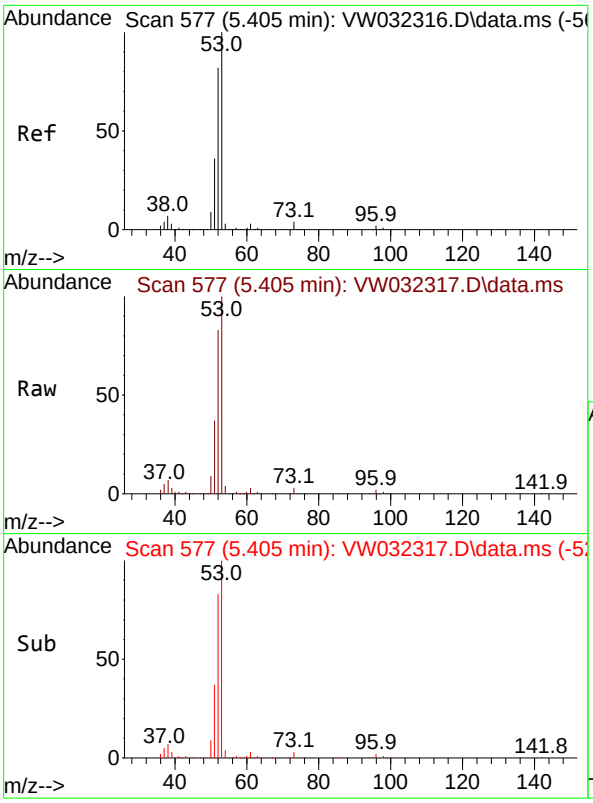


#14
Allyl chloride
Concen: 96.720 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 41 Resp: 538624

Ion	Ratio	Lower	Upper
41	100		
39	68.5	64.1	96.1
76	35.5	31.4	47.2

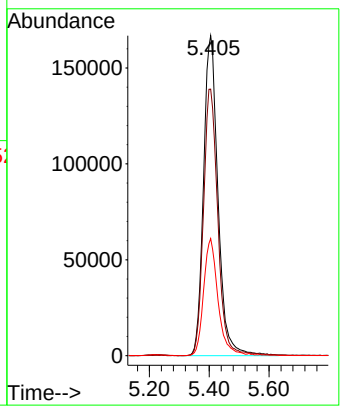




#15
Acrylonitrile
Concen: 491.730 ug/l
RT: 5.405 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 53 Resp: 56128

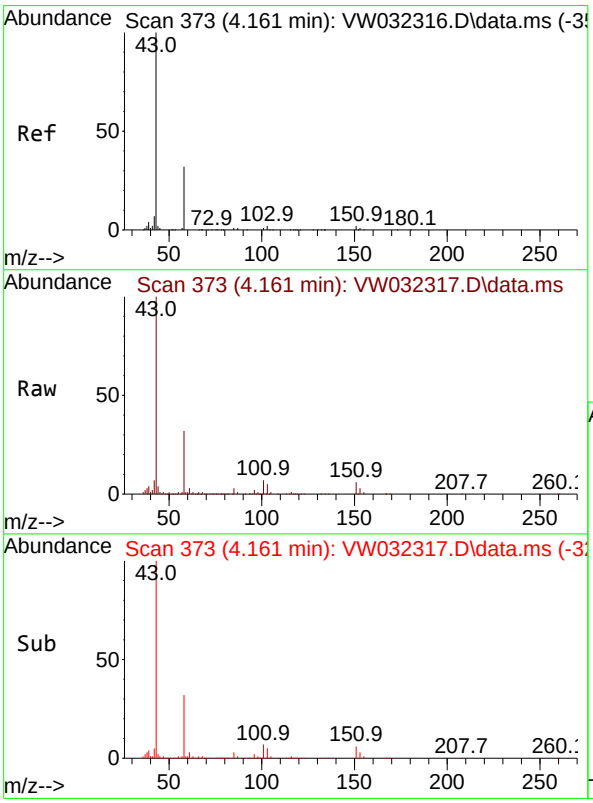
Ion	Ratio	Lower	Upper
53	100		
52	82.7	67.4	101.2
51	36.3	30.3	45.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

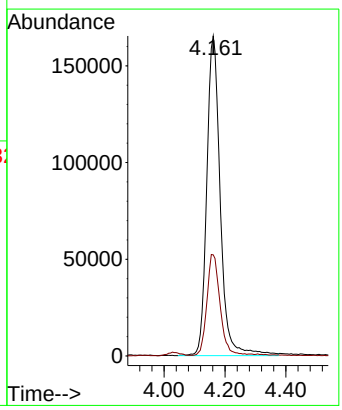
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

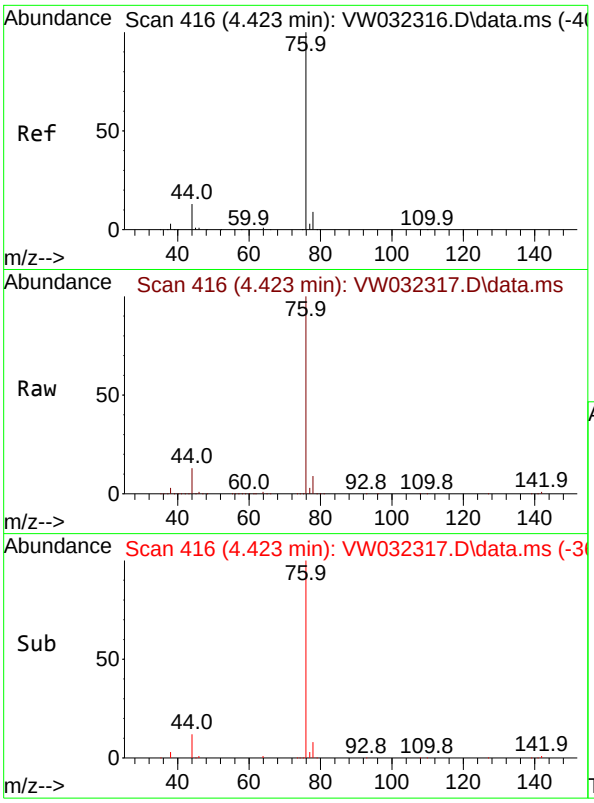


#16
Acetone
Concen: 430.455 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 43 Resp: 508582

Ion	Ratio	Lower	Upper
43	100		
58	31.3	25.3	37.9

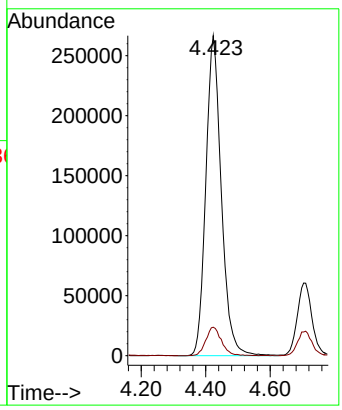




#17
Carbon Disulfide
Concen: 98.660 ug/l
RT: 4.423 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 76 Resp: 88754

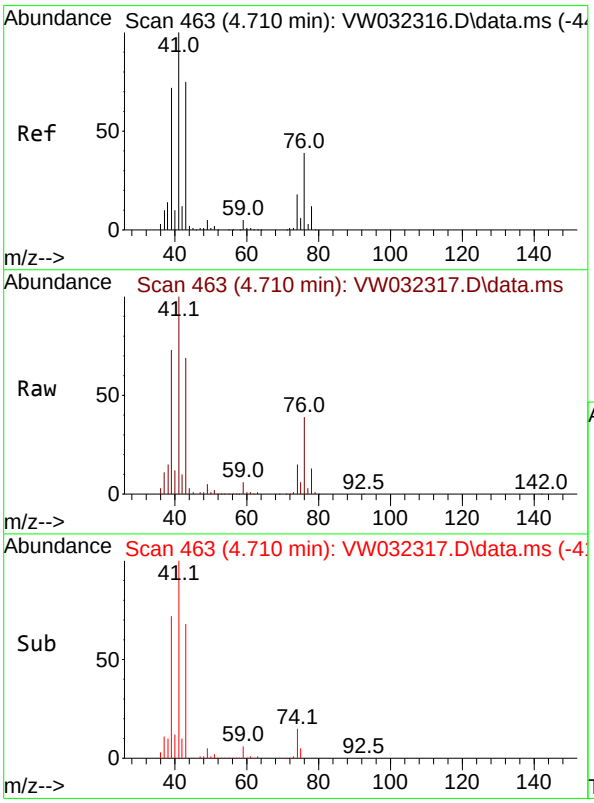
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

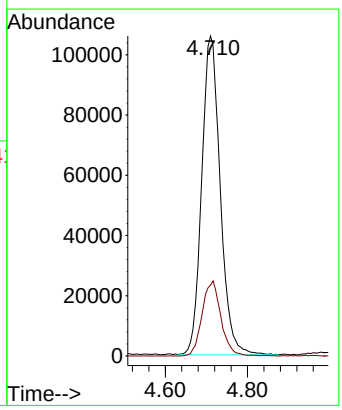
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

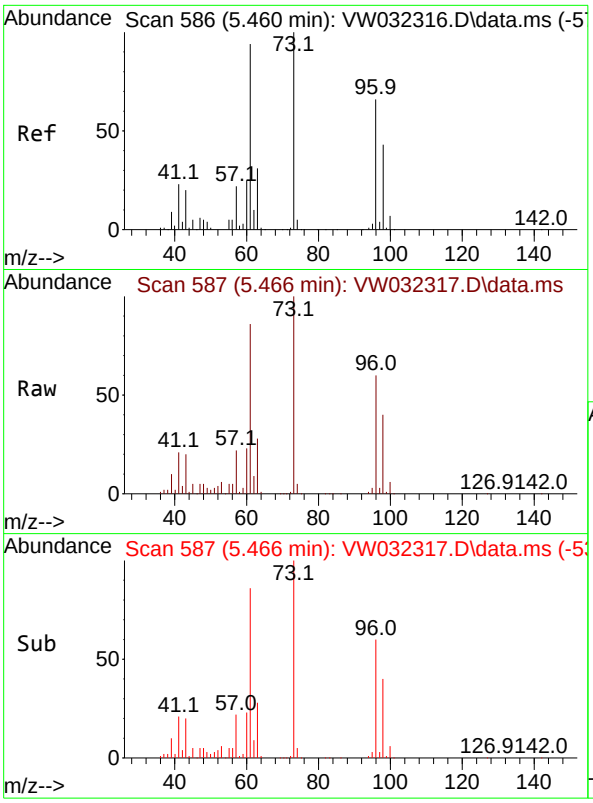


#18
Methyl Acetate
Concen: 98.033 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 43 Resp: 331793

Ion	Ratio	Lower	Upper
43	100		
74	23.7	20.2	30.4

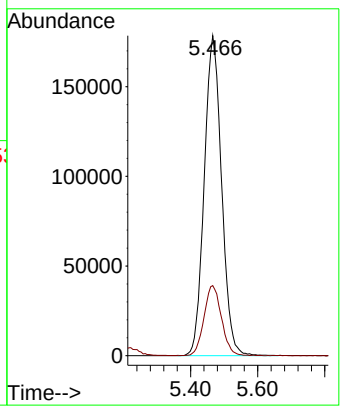




#19
Methyl tert-butyl Ether
Concen: 98.544 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 73 Resp: 63993

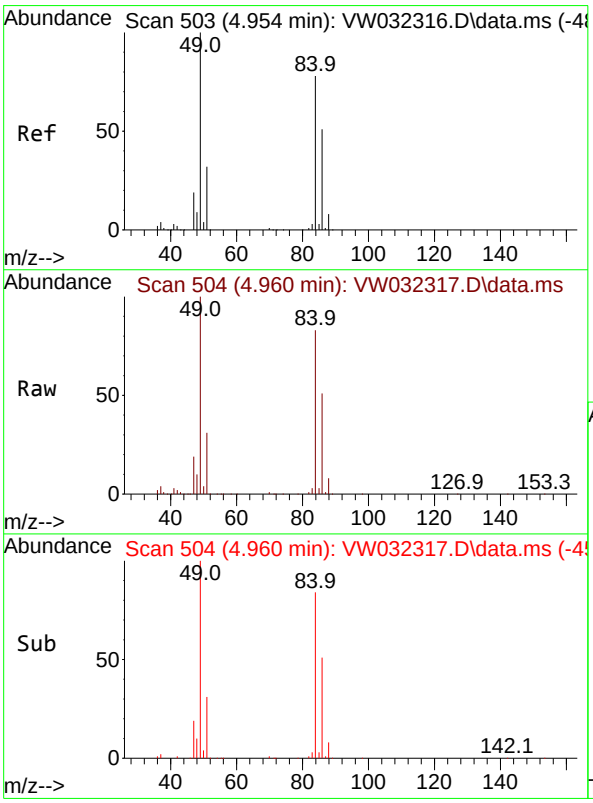
Ion	Ratio	Lower	Upper
73	100		
57	21.9	16.2	24.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

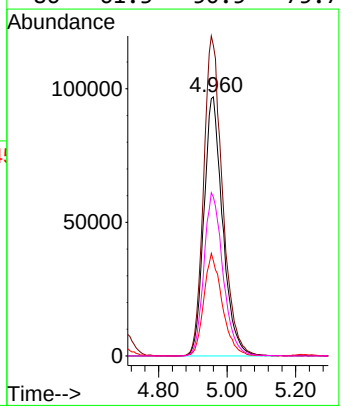
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

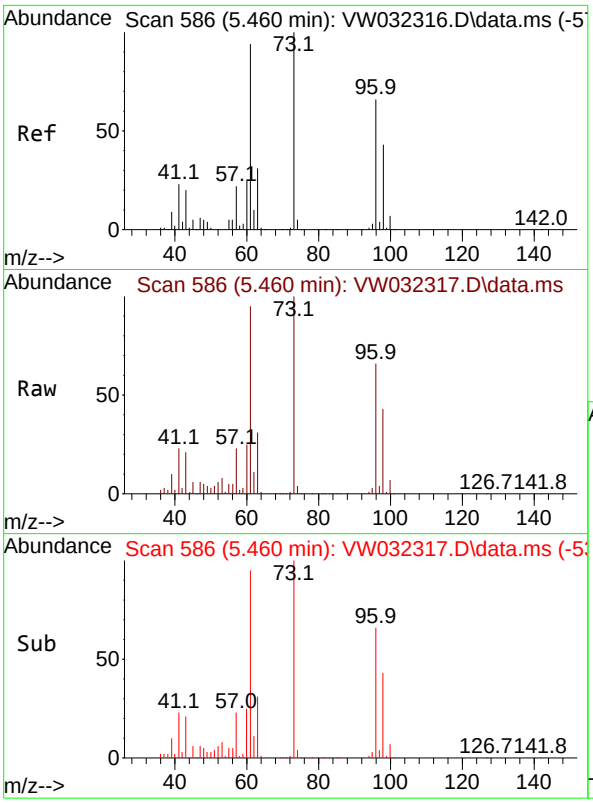


#20
Methylene Chloride
Concen: 99.471 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 84 Resp: 368359

Ion	Ratio	Lower	Upper
84	100		
49	119.8	92.2	138.4
51	36.6	31.0	46.6
86	61.3	50.5	75.7

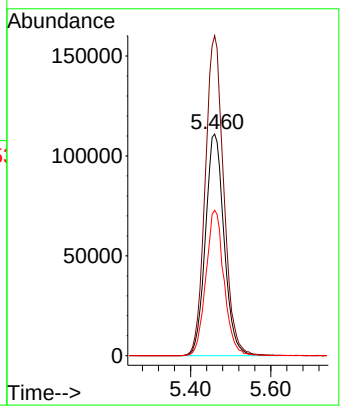




#21
trans-1,2-Dichloroethene
Concen: 98.197 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 96 Resp: 35845

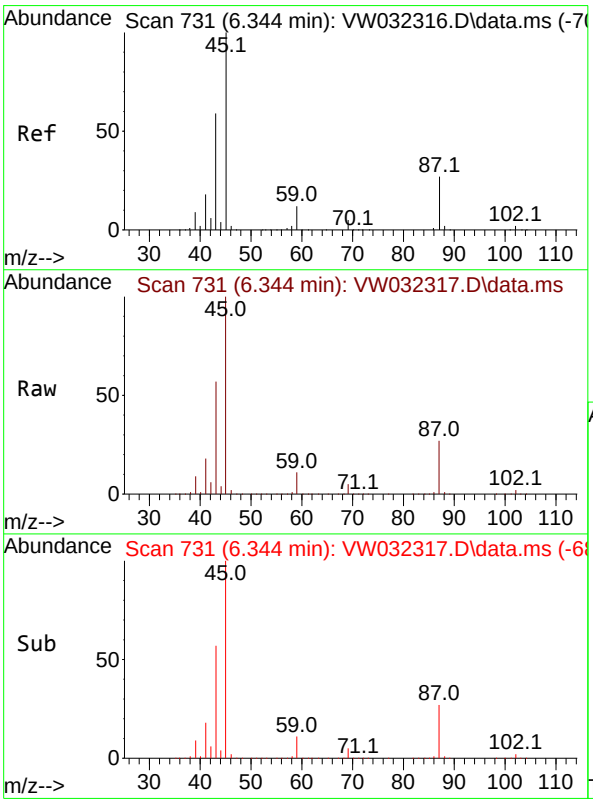
Ion	Ratio	Lower	Upper
96	100		
61	144.4	112.5	168.7
98	65.6	54.2	81.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

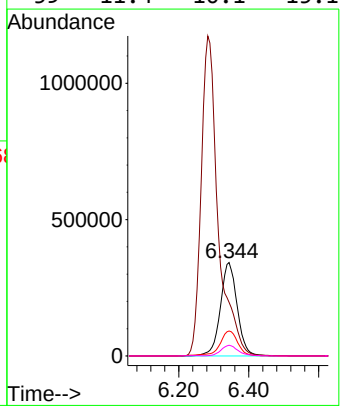
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

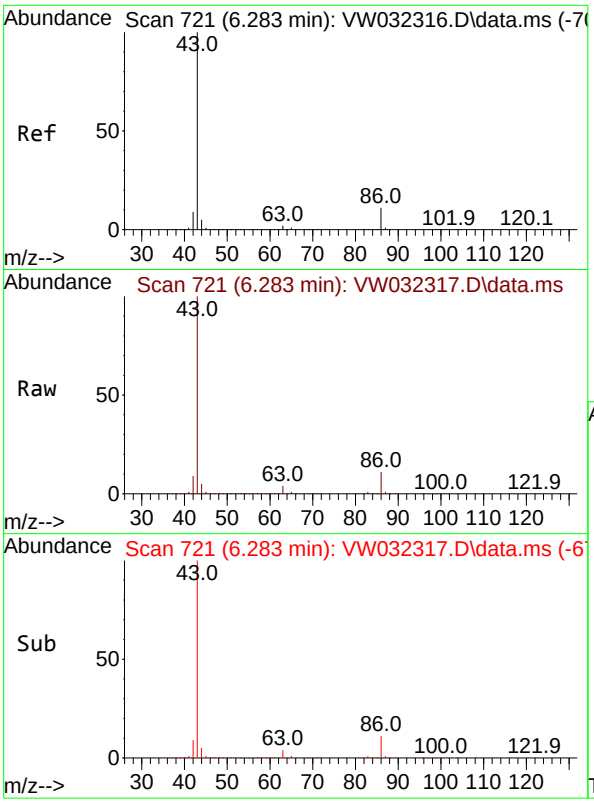


#22
Diisopropyl ether
Concen: 98.558 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 45 Resp: 1141459

Ion	Ratio	Lower	Upper
45	100		
43	57.4	51.4	77.2
87	26.7	25.9	38.9
59	11.4	10.1	15.1





#23
Vinyl Acetate
Concen: 510.205 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

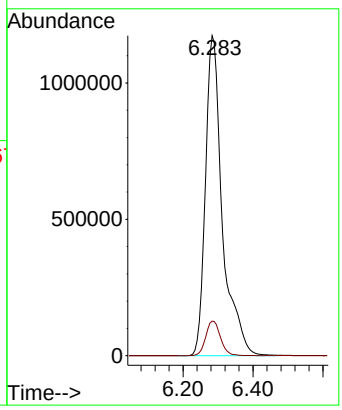
Tgt Ion: 43 Resp: 394682

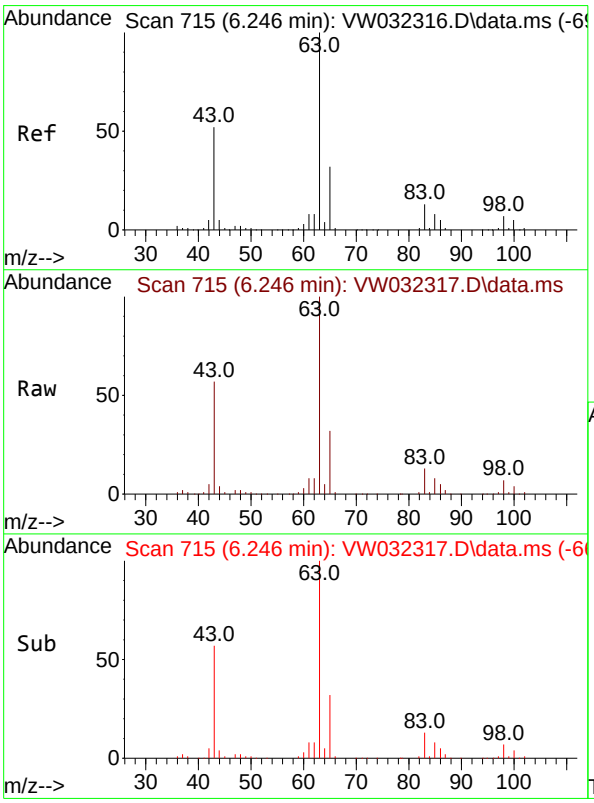
Ion	Ratio	Lower	Upper
43	100		
86	10.8	8.8	13.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

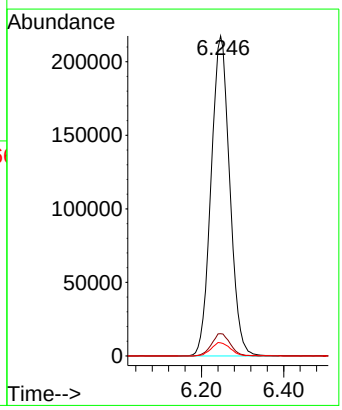


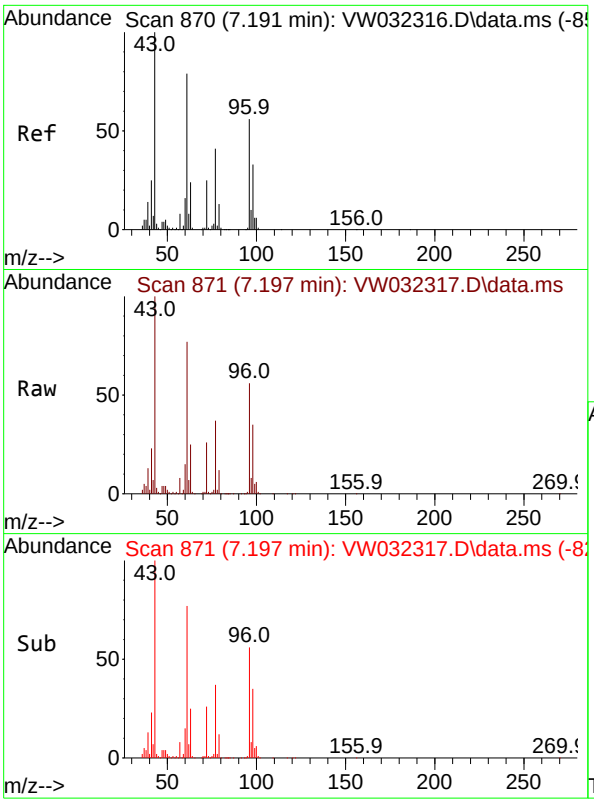


#24
1,1-Dichloroethane
Concen: 97.173 ug/l
RT: 6.246 min Scan# 715
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 63 Resp: 683736

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.8	11.2
100	4.1	2.5	7.5





#25
2-Butanone
Concen: 476.718 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

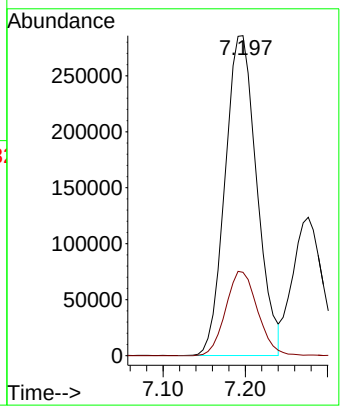
Tgt Ion: 43 Resp: 76710

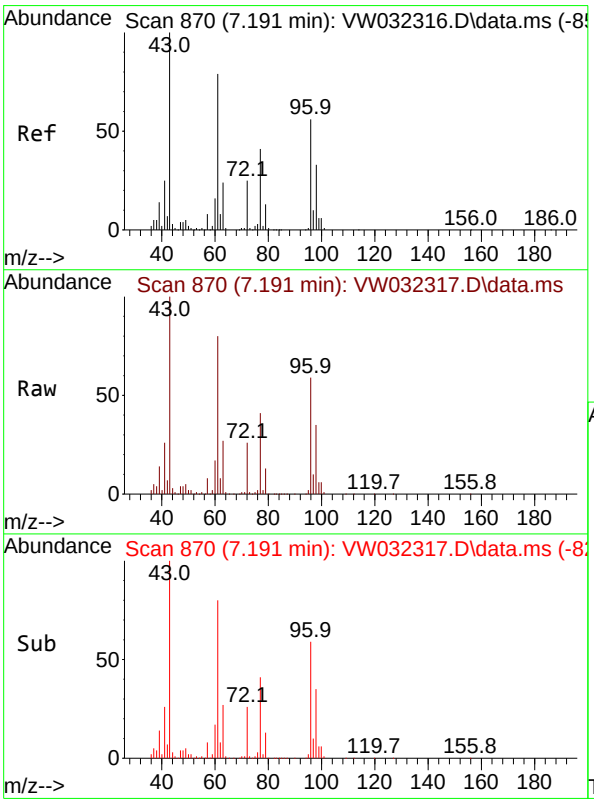
Ion	Ratio	Lower	Upper
43	100		
72	26.1	21.4	32.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

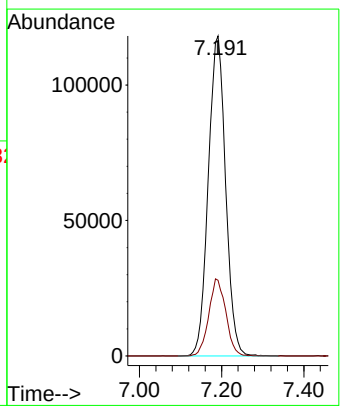


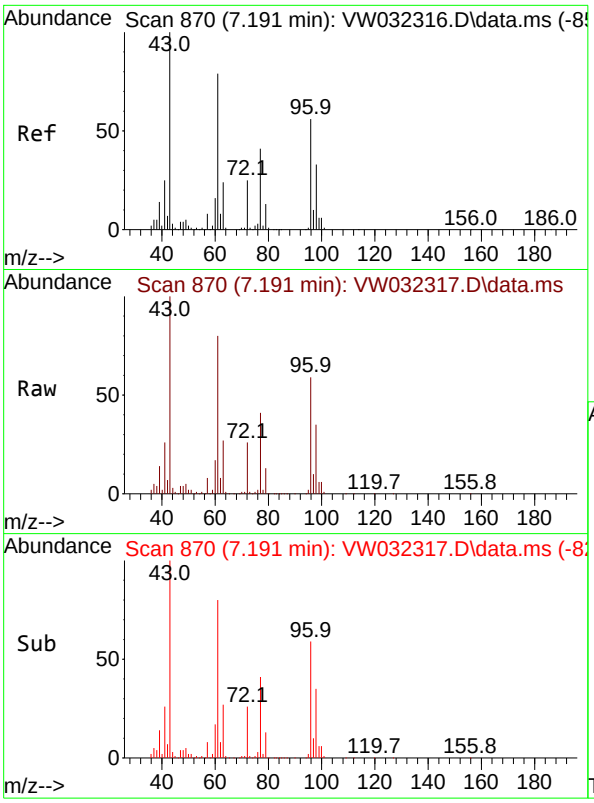


#26
2,2-Dichloropropane
Concen: 95.948 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 77 Resp: 345332

Ion	Ratio	Lower	Upper
77	100		
97	23.7	11.9	35.5

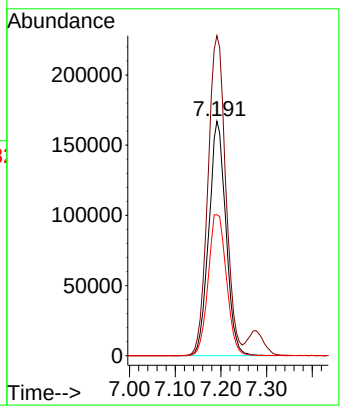




#27
cis-1,2-Dichloroethene
Concen: 98.767 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 96 Resp: 43312

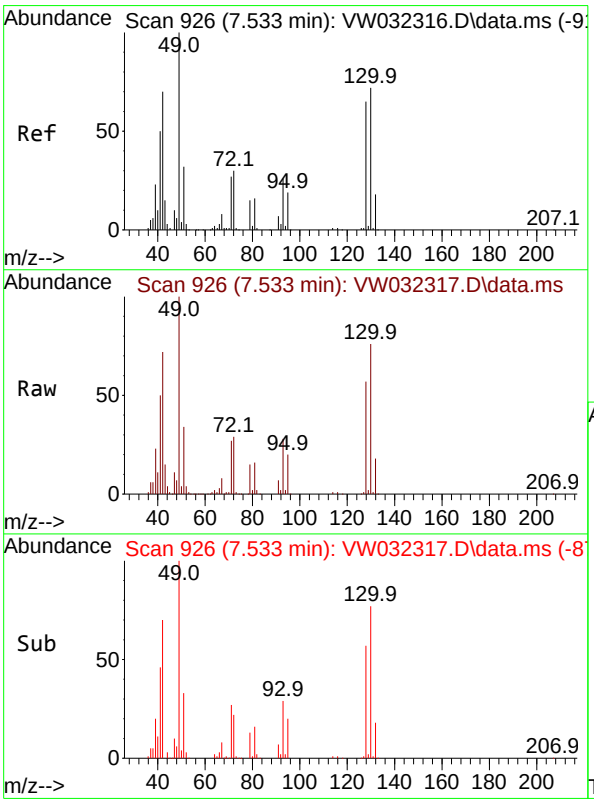
Ion	Ratio	Lower	Upper
96	100		
61	142.5	0.0	268.0
98	64.4	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

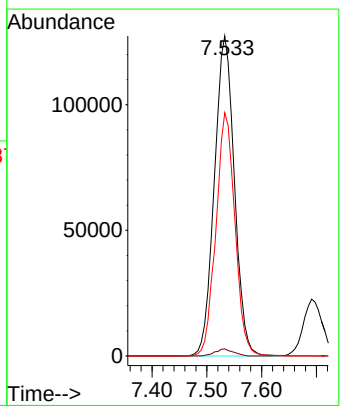
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

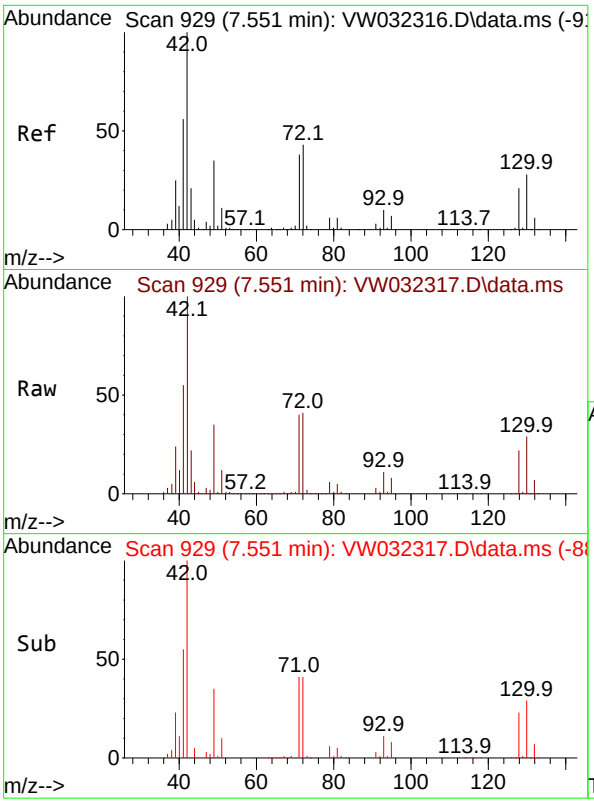


#28
Bromochloromethane
Concen: 97.732 ug/l
RT: 7.533 min Scan# 926
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 49 Resp: 323538

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	72.2	67.5	101.3





#29
Tetrahydrofuran
Concen: 493.149 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

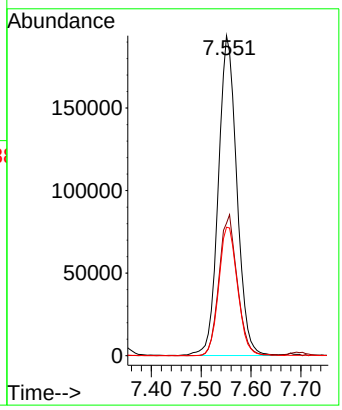
Tgt Ion: 42 Resp: 49903

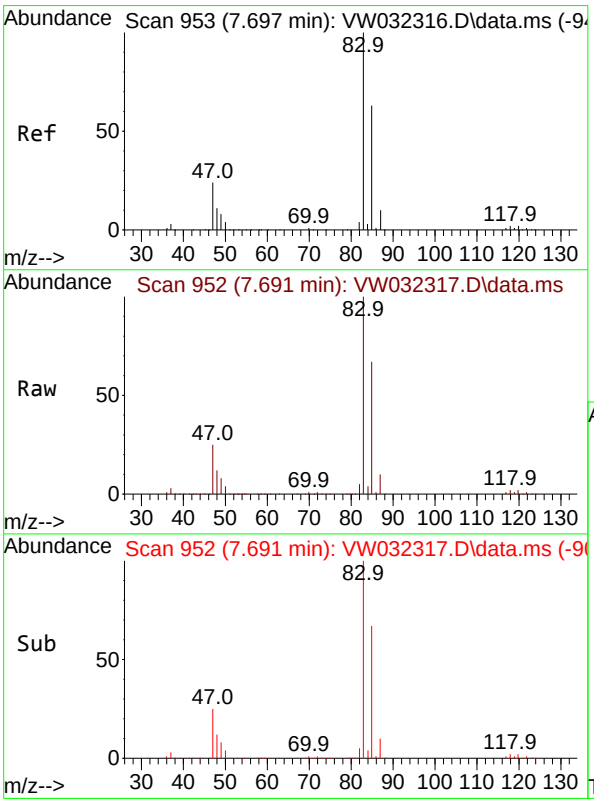
Ion	Ratio	Lower	Upper
42	100		
72	43.4	37.4	56.2
71	41.1	36.0	54.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

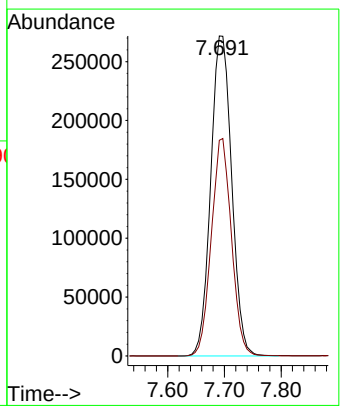


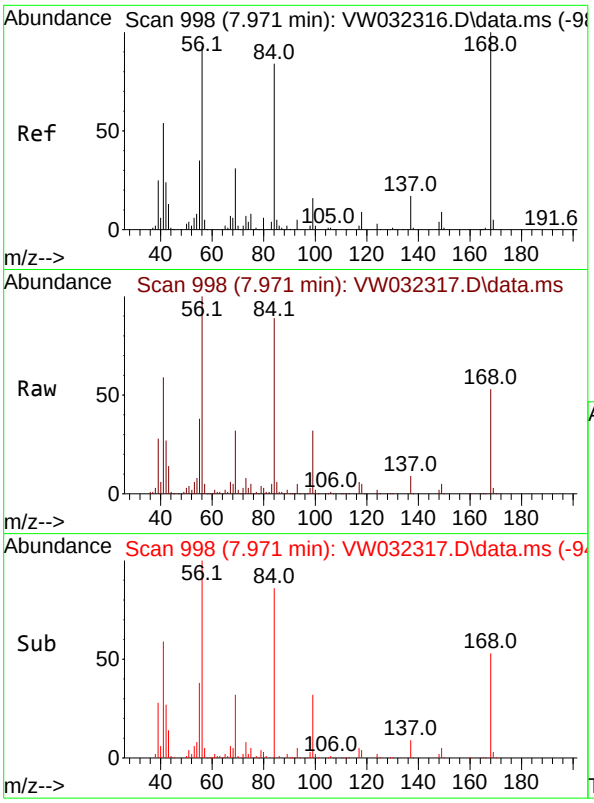


#30
Chloroform
Concen: 97.676 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 83 Resp: 697012

Ion	Ratio	Lower	Upper
83	100		
85	67.4	51.2	76.8

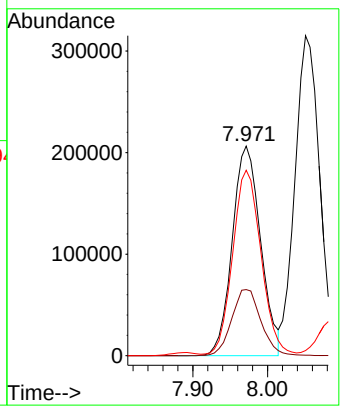




#31
Cyclohexane
Concen: 90.699 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 56 Resp: 54482

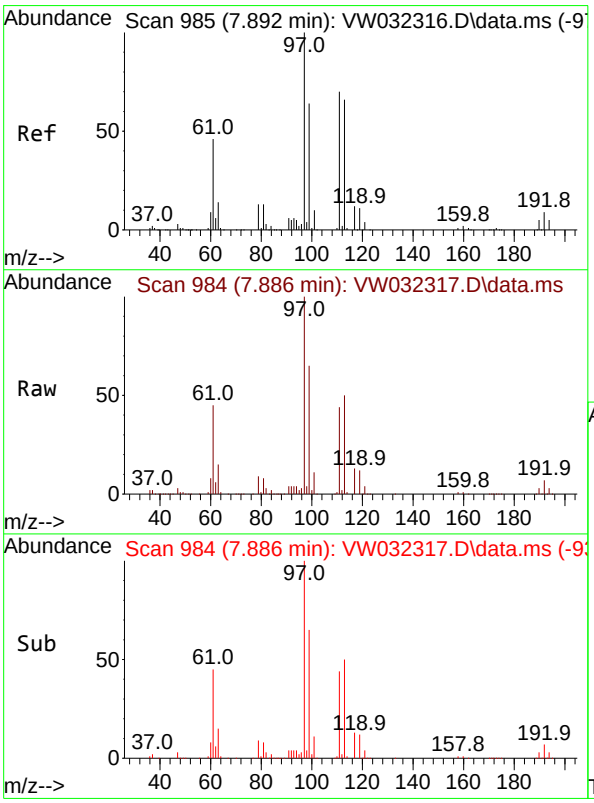
Ion	Ratio	Lower	Upper
56	100		
69	31.6	27.7	41.5
84	87.2	74.6	112.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

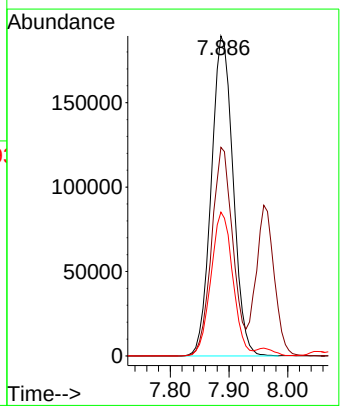
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

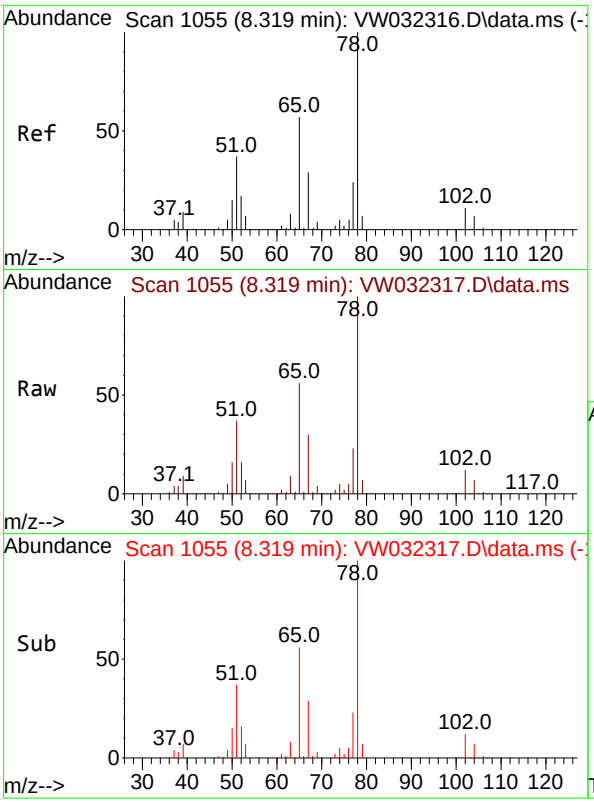


#32
1,1,1-Trichloroethane
Concen: 96.637 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 97 Resp: 488662

Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.9	76.3
61	45.2	36.2	54.4

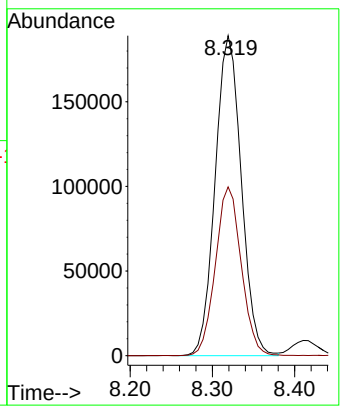




#33
1,2-Dichloroethane-d4
Concen: 97.841 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 65 Resp: 41748

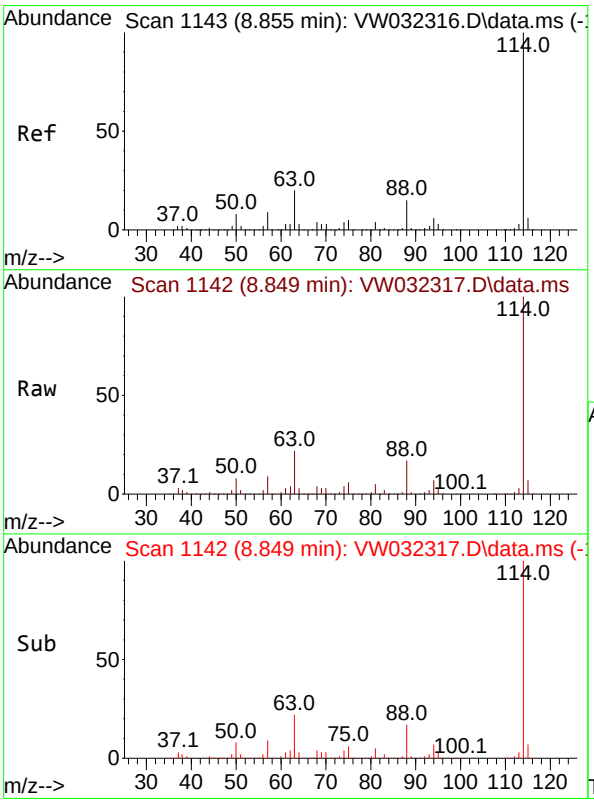
Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	99.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

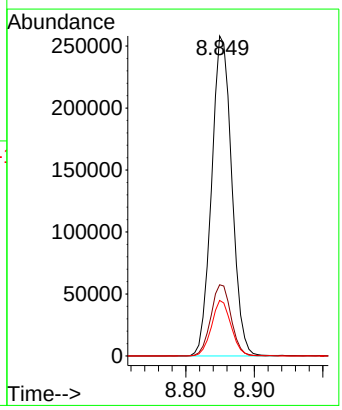
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

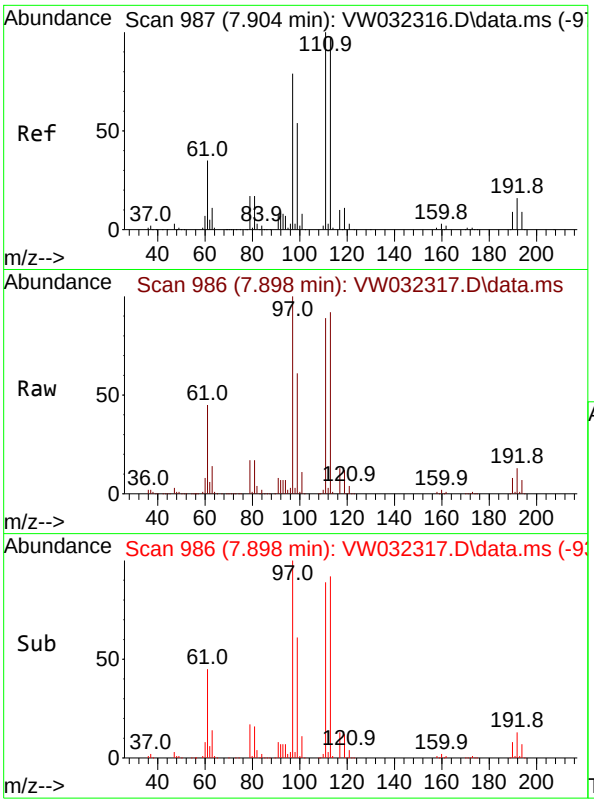


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:114 Resp: 528901

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	40.4
88	17.4	0.0	32.0

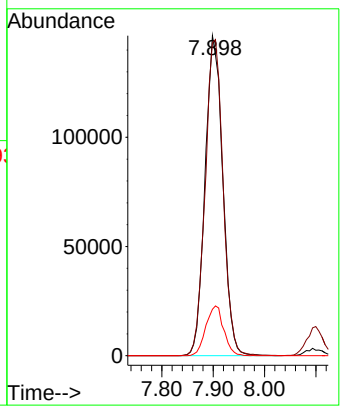




#35
Dibromofluoromethane
Concen: 102.349 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:113 Resp: 35056

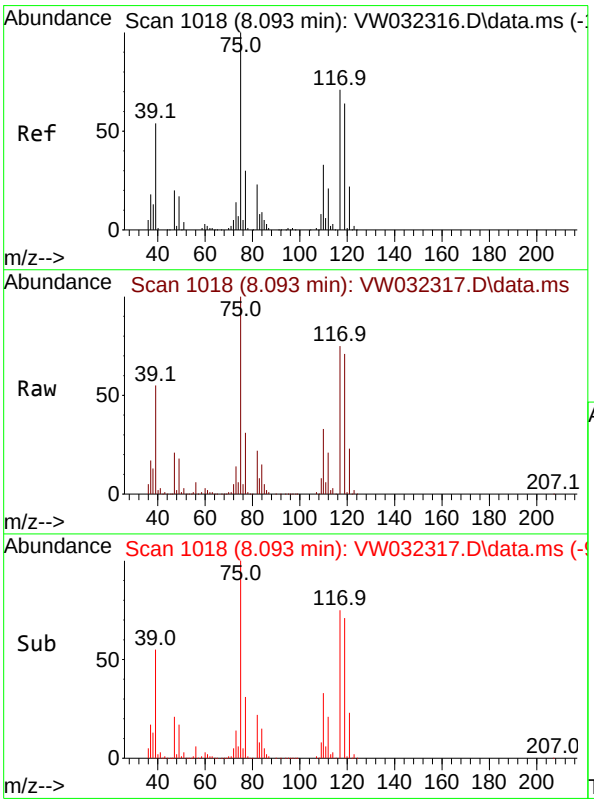
Ion	Ratio	Lower	Upper
113	100		
111	100.1	83.9	125.9
192	15.6	14.6	21.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

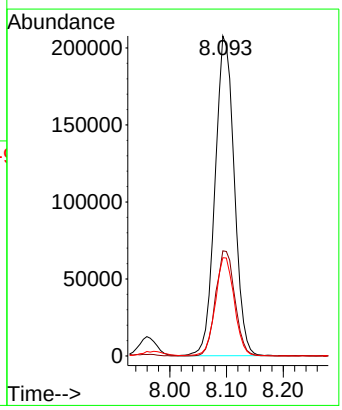
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

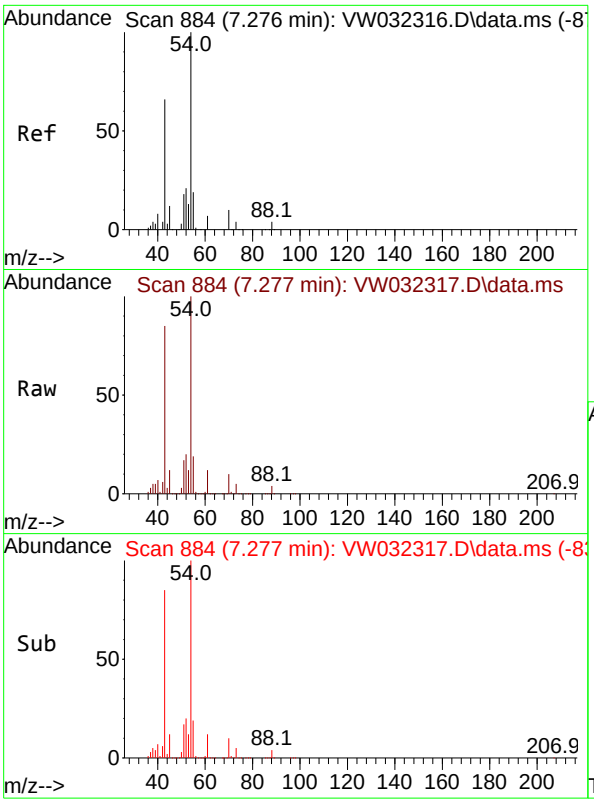


#36
1,1-Dichloropropene
Concen: 100.644 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 75 Resp: 486510

Ion	Ratio	Lower	Upper
75	100		
110	33.1	17.5	52.5
77	30.7	24.1	36.1





#37
Ethyl Acetate
Concen: 100.344 ug/l
RT: 7.277 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

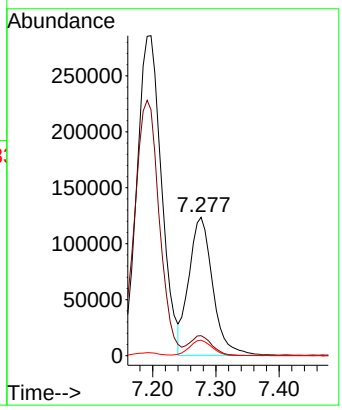
Tgt Ion: 43 Resp: 32286

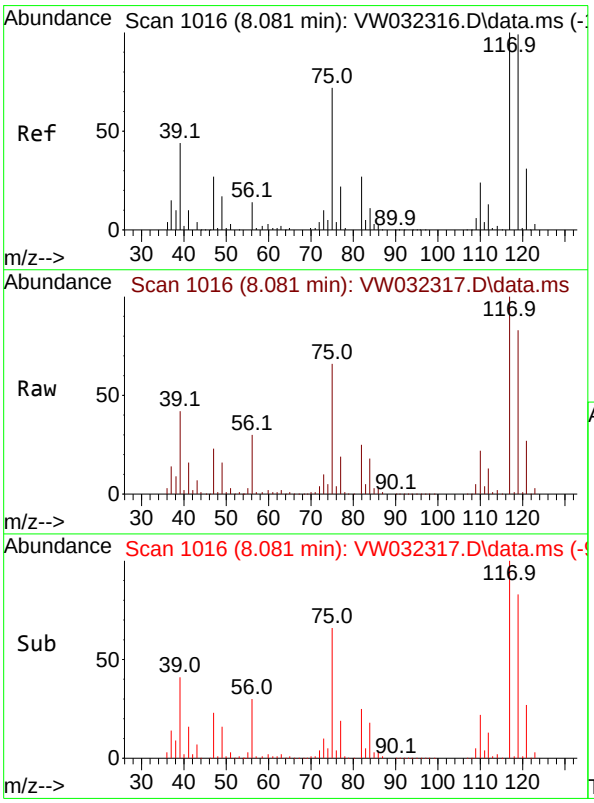
Ion	Ratio	Lower	Upper
43	100		
61	13.7	11.3	16.9
70	10.4	8.9	13.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

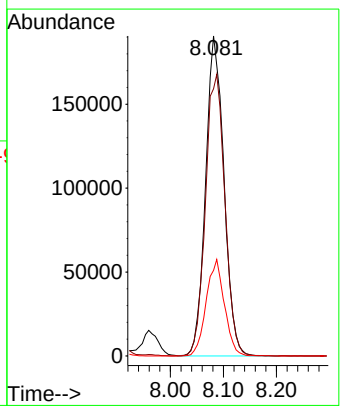


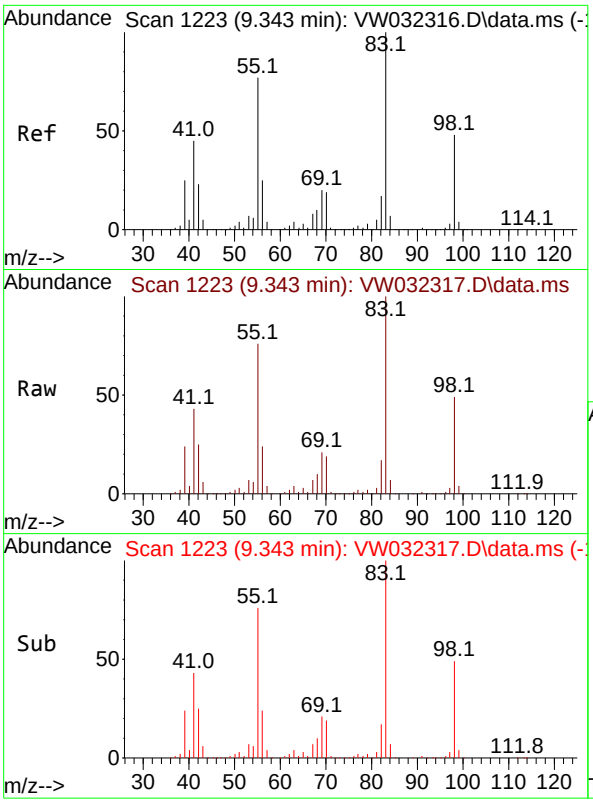


#38
Carbon Tetrachloride
Concen: 100.845 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:117 Resp: 458732

Ion	Ratio	Lower	Upper
117	100		
119	83.5	74.2	111.2
121	26.8	25.6	38.4





#39
Methylcyclohexane
Concen: 103.099 ug/l
RT: 9.343 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

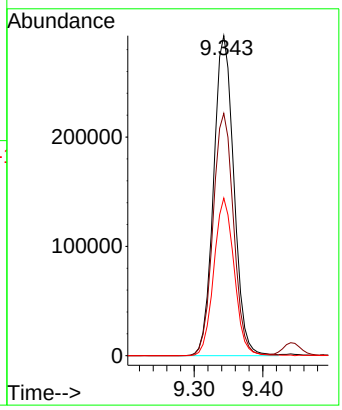
Tgt Ion: 83 Resp: 60115

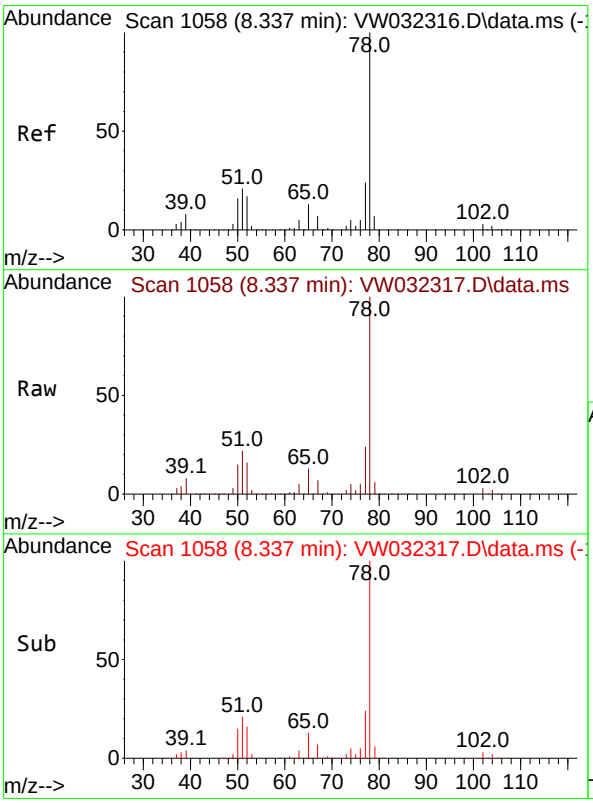
Ion	Ratio	Lower	Upper
83	100		
55	75.7	58.4	87.6
98	49.3	39.4	59.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

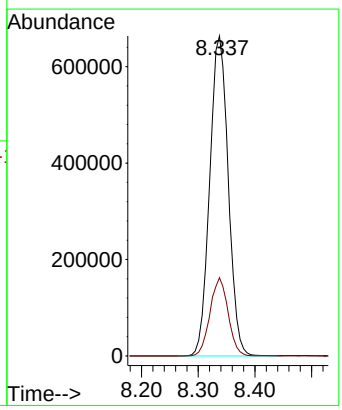


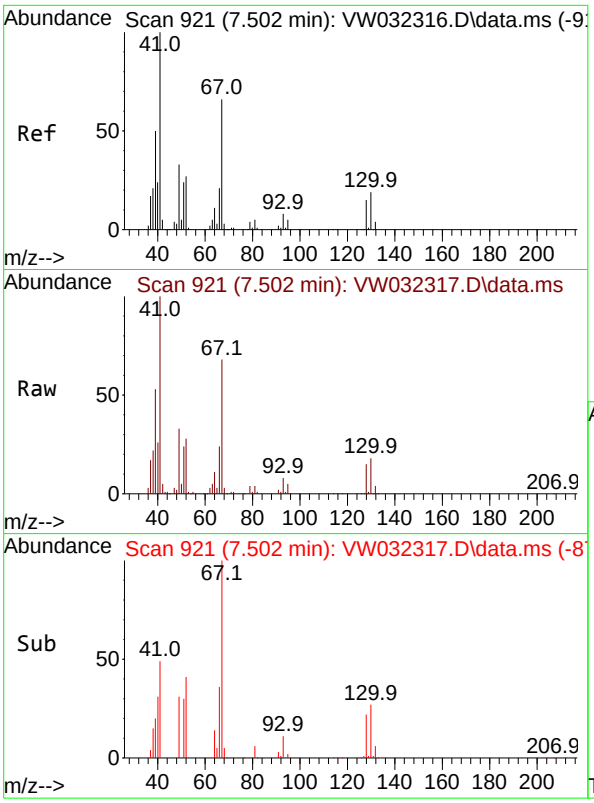


#40
Benzene
Concen: 99.416 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 78 Resp: 1506339

Ion	Ratio	Lower	Upper
78	100		
77	24.4	20.7	31.1

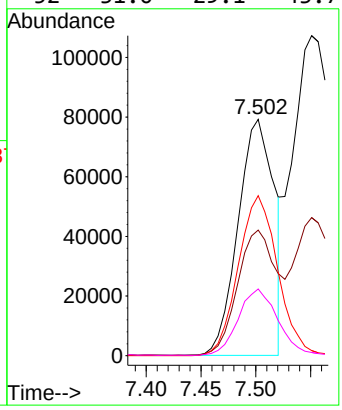




#41
Methacrylonitrile
Concen: 104.404 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 41 Resp: 18103

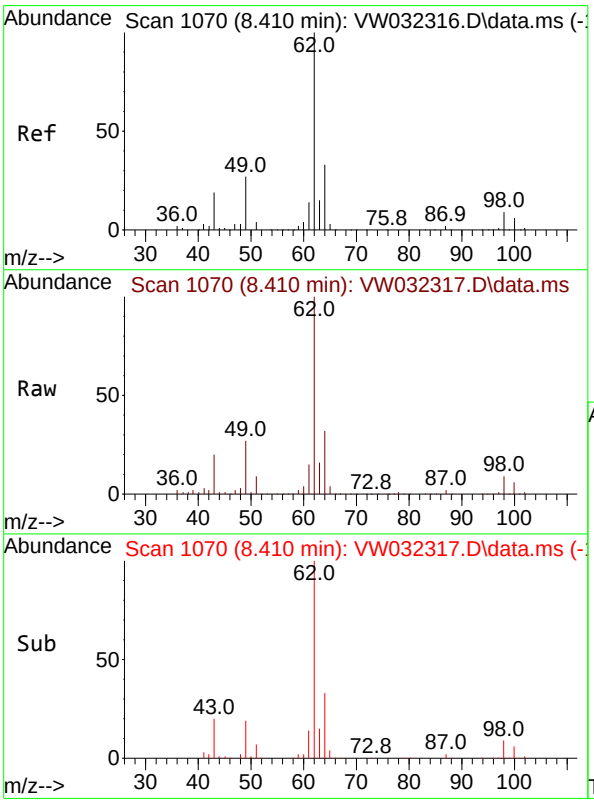
Ion	Ratio	Lower	Upper
41	100		
39	59.2	50.9	76.3
67	74.5	65.6	98.4
52	31.0	29.1	43.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

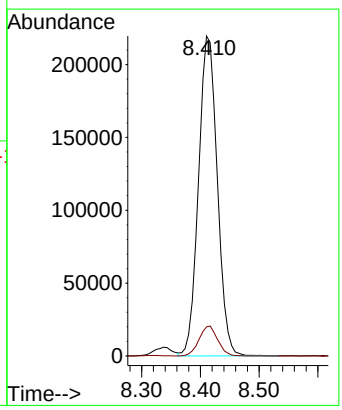
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

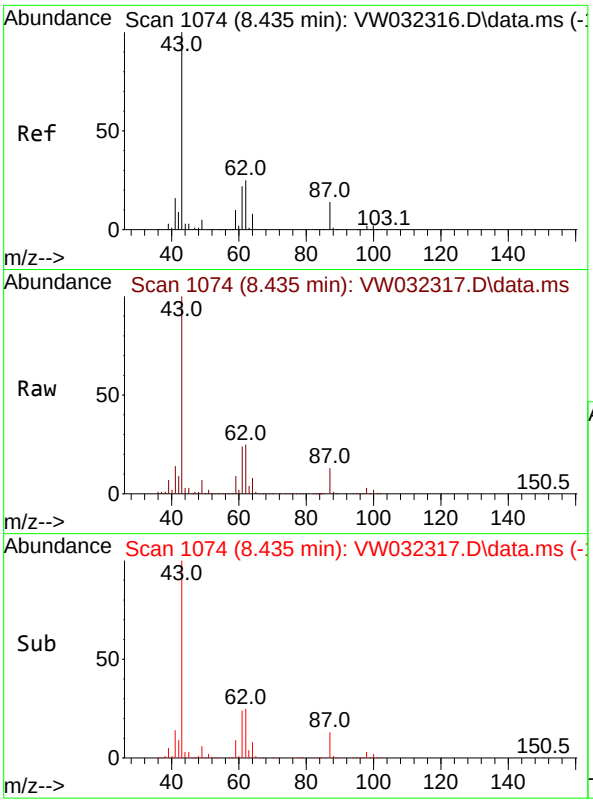


#42
1,2-Dichloroethane
Concen: 98.363 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 62 Resp: 487667

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.0





#43
Isopropyl Acetate
Concen: 104.746 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

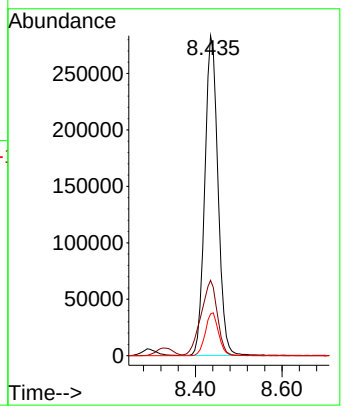
Tgt Ion: 43 Resp: 59787

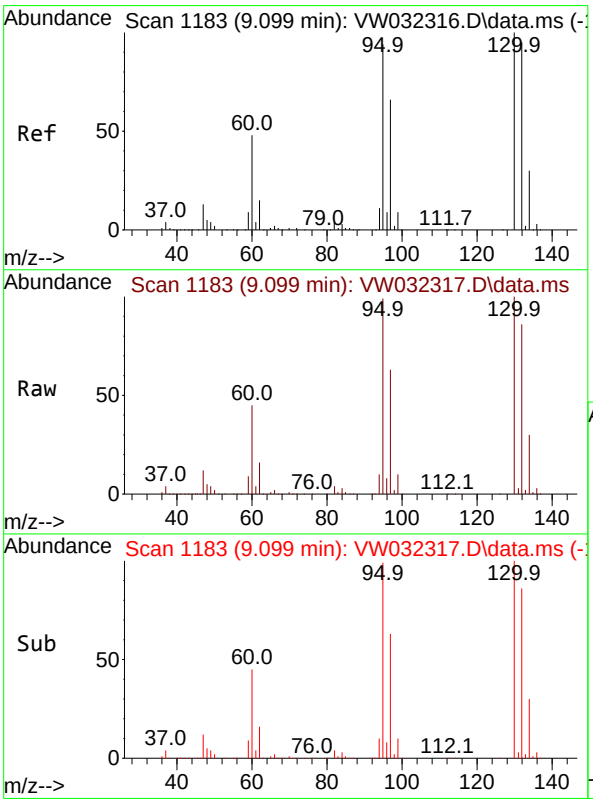
Ion	Ratio	Lower	Upper
43	100		
61	29.0	23.3	34.9
87	13.5	11.1	16.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

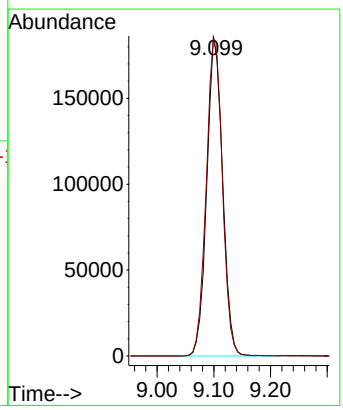


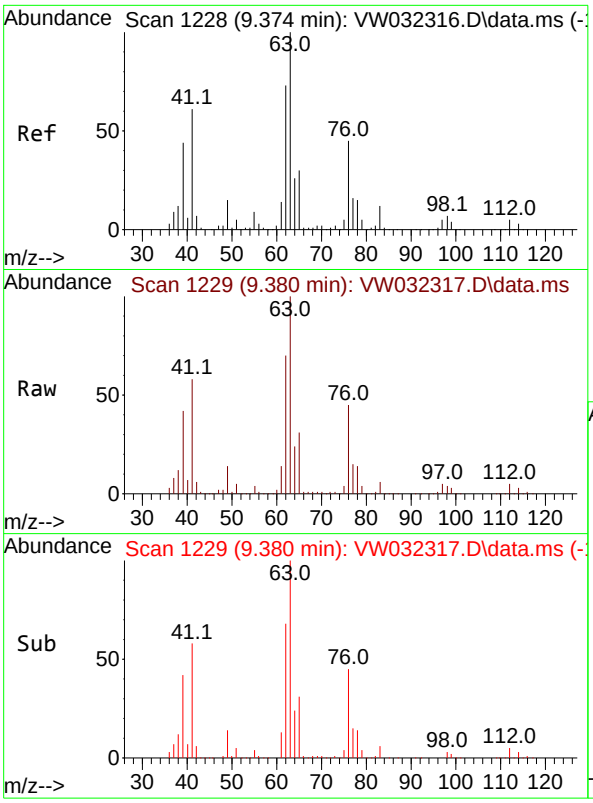


#44
Trichloroethene
Concen: 101.217 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:130 Resp: 359102

Ion	Ratio	Lower	Upper
130	100		
95	99.5	0.0	220.0

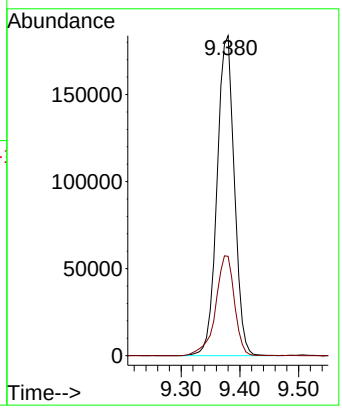




#45
1,2-Dichloropropane
Concen: 99.234 ug/l
RT: 9.380 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 63 Resp: 37530

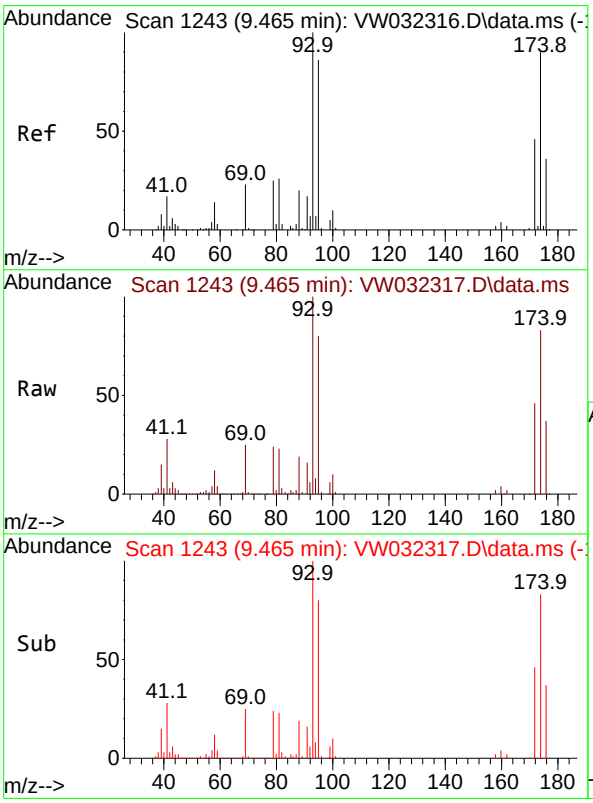
Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.3	36.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

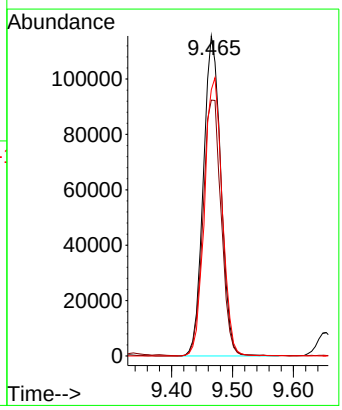
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

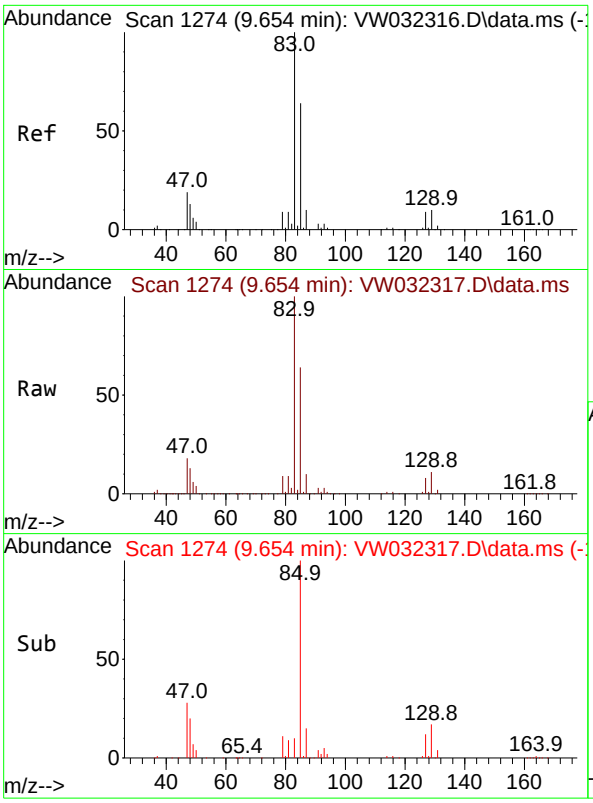


#46
Dibromomethane
Concen: 99.495 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 93 Resp: 231385

Ion	Ratio	Lower	Upper
93	100		
95	82.6	67.4	101.2
174	87.8	75.7	113.5

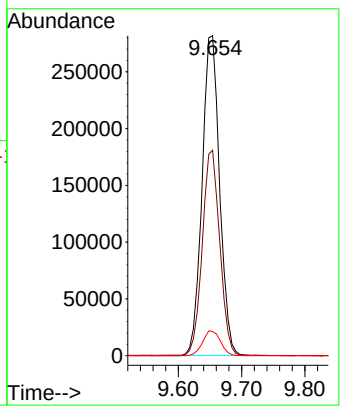




#47
Bromodichloromethane
Concen: 102.055 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 83 Resp: 54284

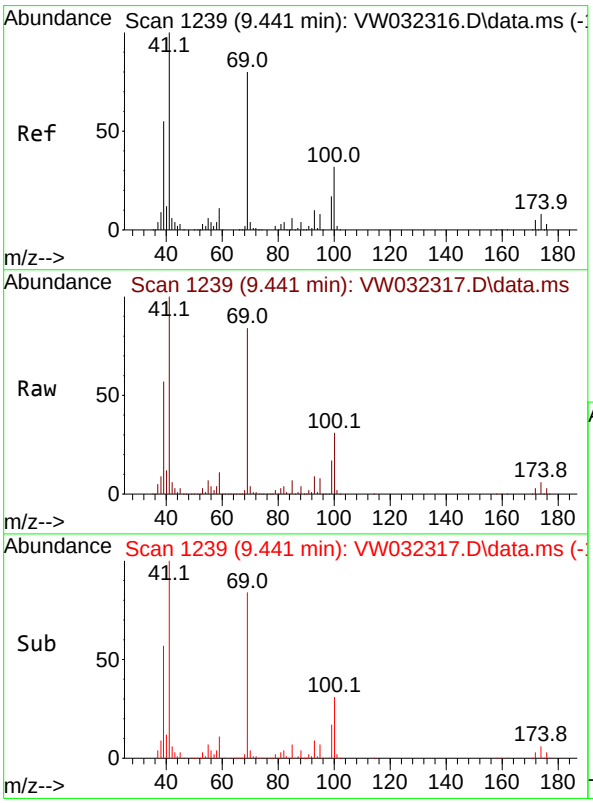
Ion	Ratio	Lower	Upper
83	100		
85	64.2	48.7	73.1
127	7.6	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

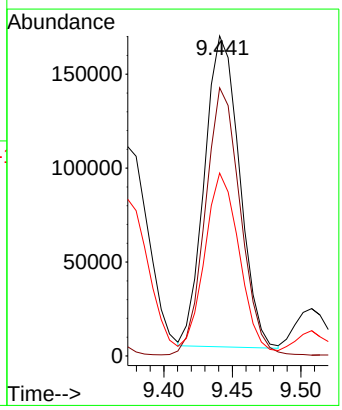
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

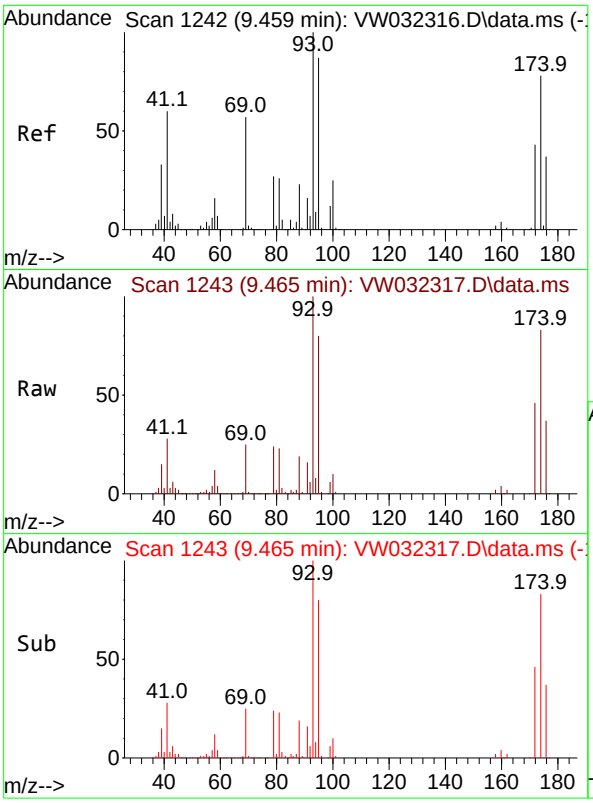


#48
Methyl methacrylate
Concen: 105.789 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 41 Resp: 293582

Ion	Ratio	Lower	Upper
41	100		
69	87.0	71.5	107.3
39	55.3	55.9	83.9#

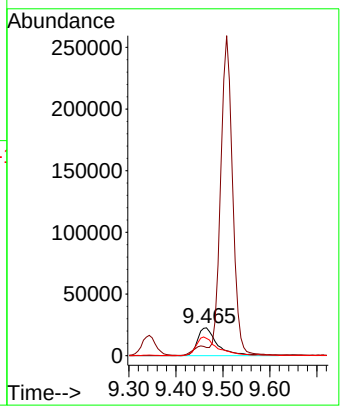




#49
1,4-Dioxane
Concen: 2105.342 ug/l
RT: 9.465 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 88 Resp: 6692

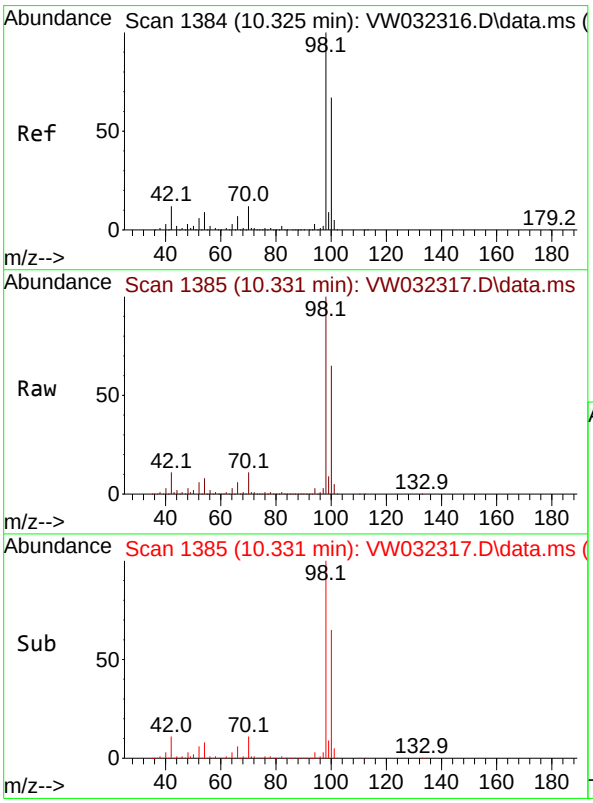
Ion	Ratio	Lower	Upper
88	100		
43	22.4	18.0	27.0
58	71.0	55.4	83.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

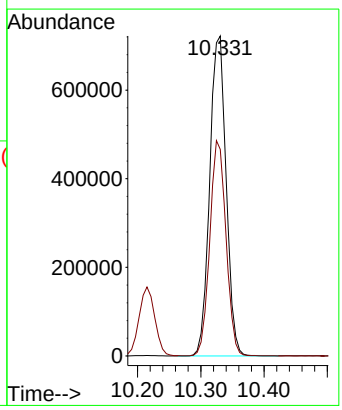
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

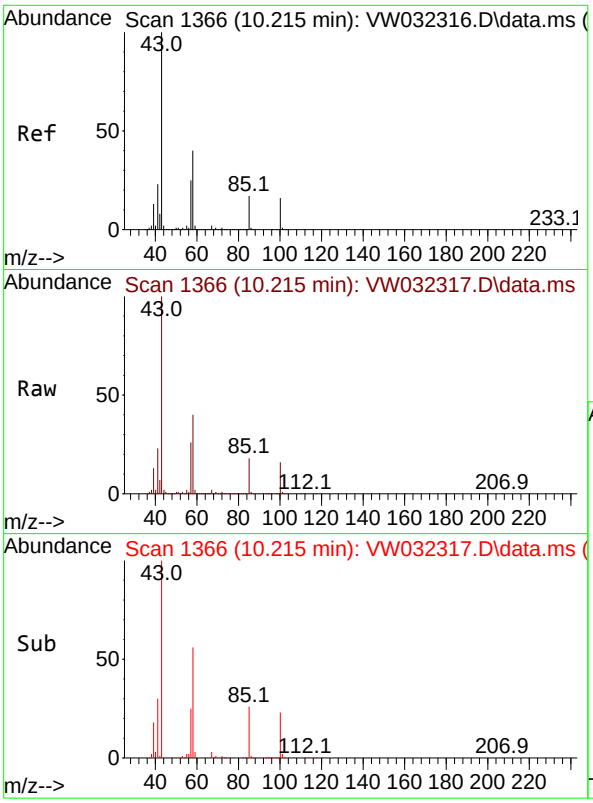


#50
Toluene-d8
Concen: 102.965 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 98 Resp: 1301655

Ion	Ratio	Lower	Upper
98	100		
100	66.3	51.4	77.2

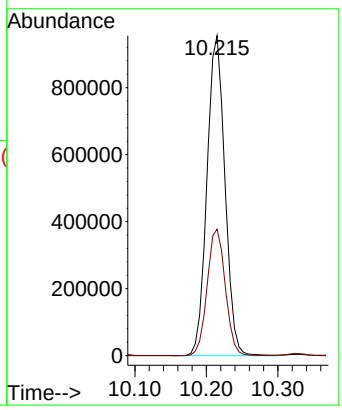




#51
4-Methyl-2-Pentanone
Concen: 503.045 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 43 Resp: 166307

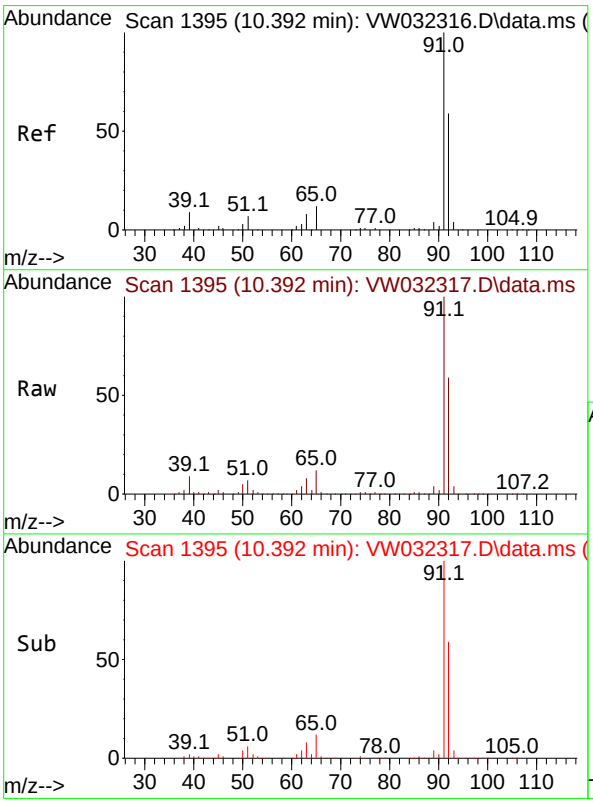
Ion	Ratio	Lower	Upper
43	100		
58	40.0	32.0	48.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

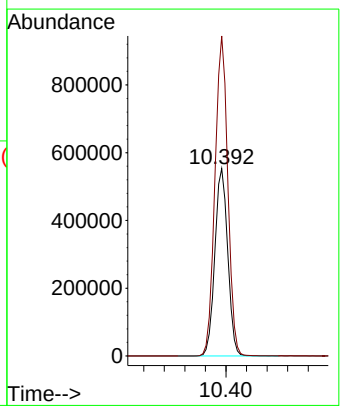
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

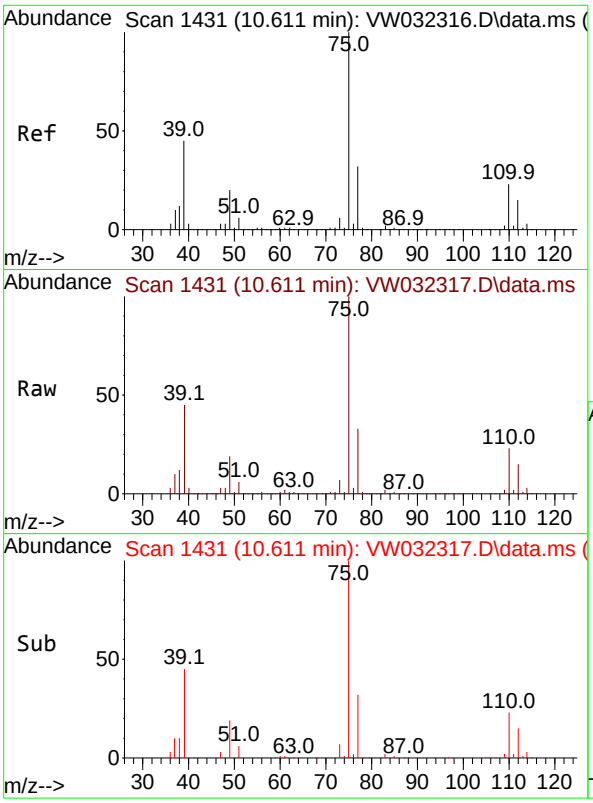


#52
Toluene
Concen: 101.843 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 92 Resp: 960973

Ion	Ratio	Lower	Upper
92	100		
91	170.0	137.5	206.3

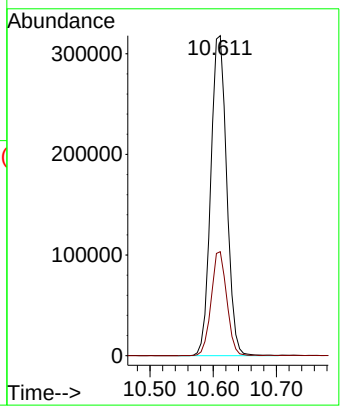




#53
t-1,3-Dichloropropene
Concen: 107.561 ug/l
RT: 10.611 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 75 Resp: 55507

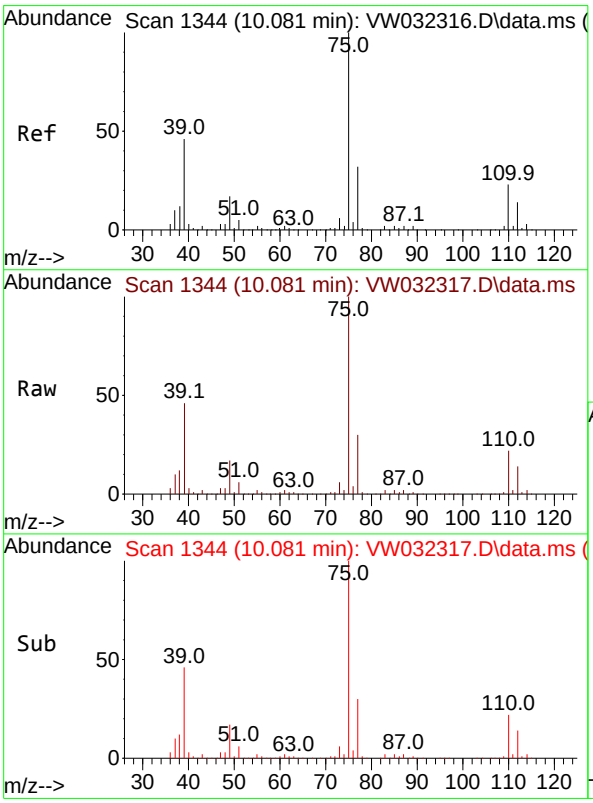
Ion	Ratio	Lower	Upper
75	100		
77	32.5	25.6	38.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

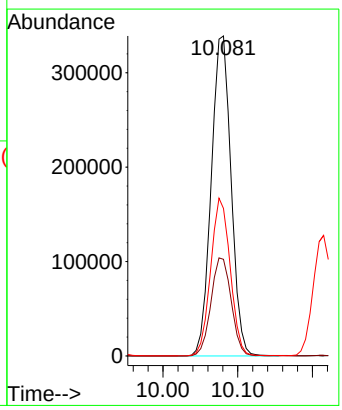
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

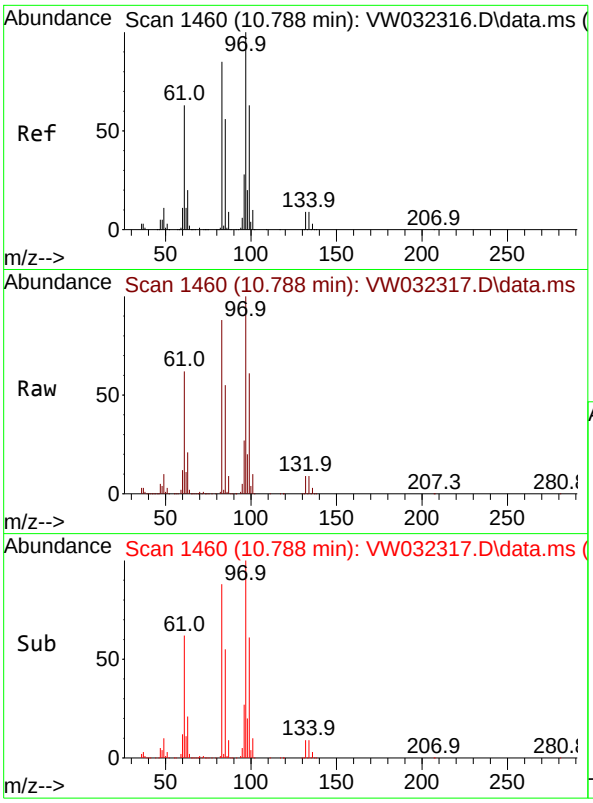


#54
cis-1,3-Dichloropropene
Concen: 105.188 ug/l
RT: 10.081 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 75 Resp: 625271

Ion	Ratio	Lower	Upper
75	100		
77	30.2	25.1	37.7
39	46.1	43.2	64.8

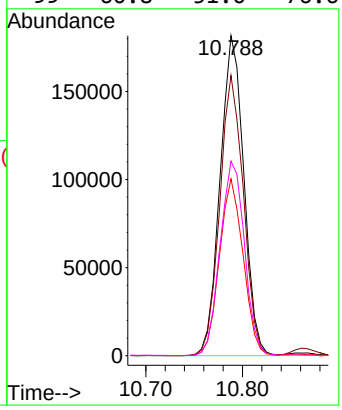




#55
1,1,2-Trichloroethane
Concen: 99.546 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 97 Resp: 30941

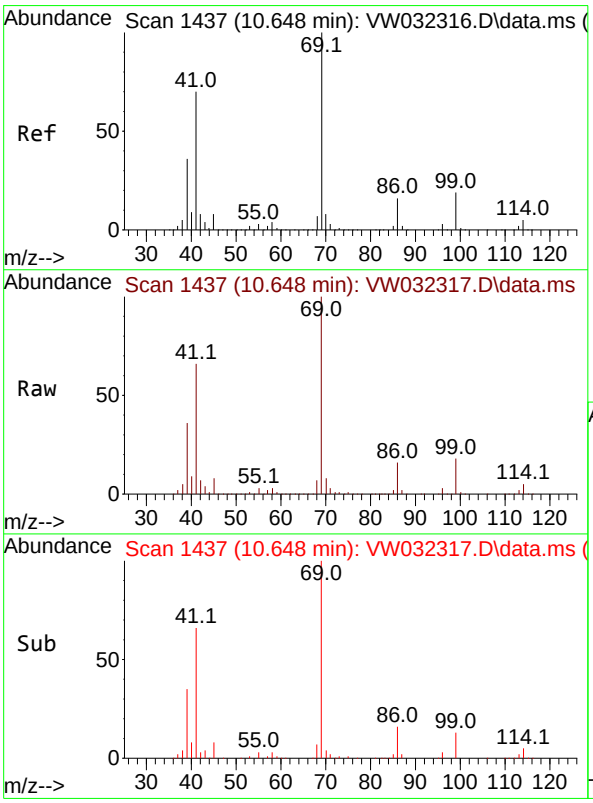
Ion	Ratio	Lower	Upper
97	100		
83	87.5	71.0	106.6
85	55.3	42.8	64.2
99	60.8	51.0	76.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

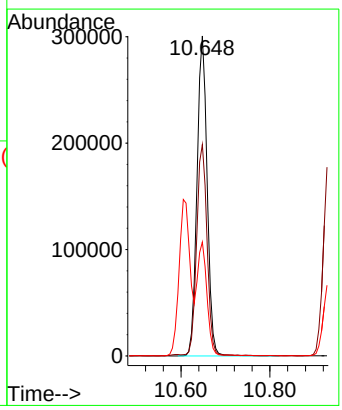
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

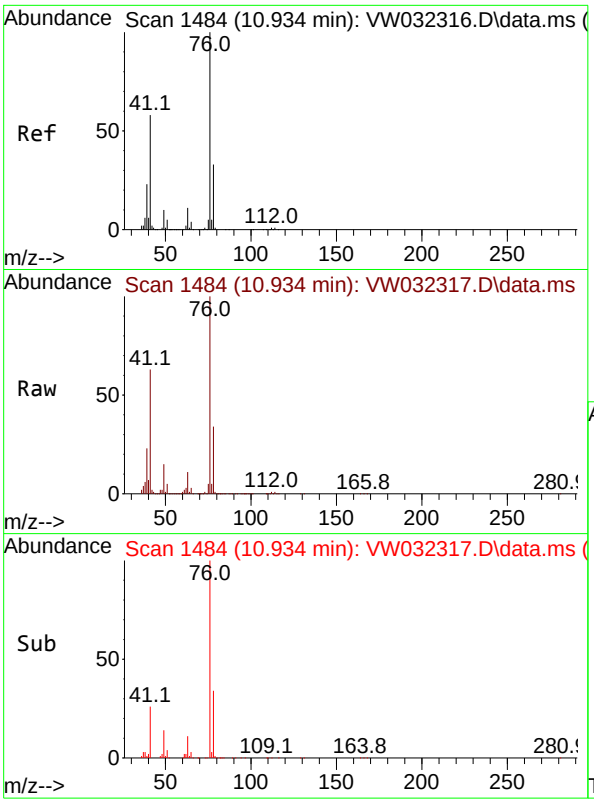


#56
Ethyl methacrylate
Concen: 109.686 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 69 Resp: 477191

Ion	Ratio	Lower	Upper
69	100		
41	67.0	53.2	79.8
39	33.6	32.9	49.3





#57
1,3-Dichloropropane
Concen: 99.997 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

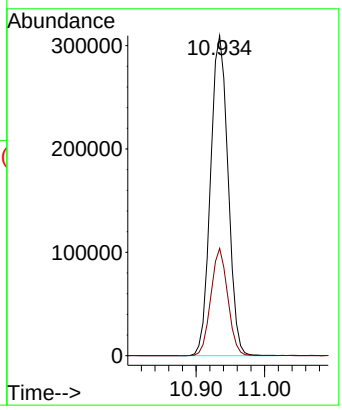
Tgt Ion: 76 Resp: 54895

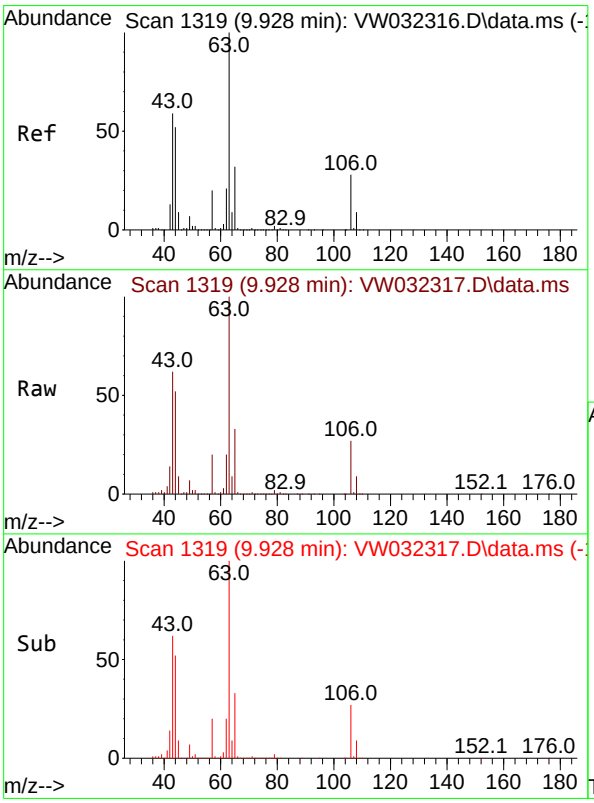
Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.2	39.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

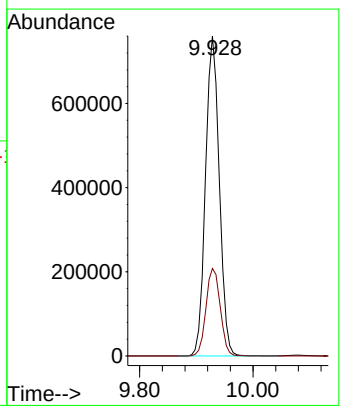


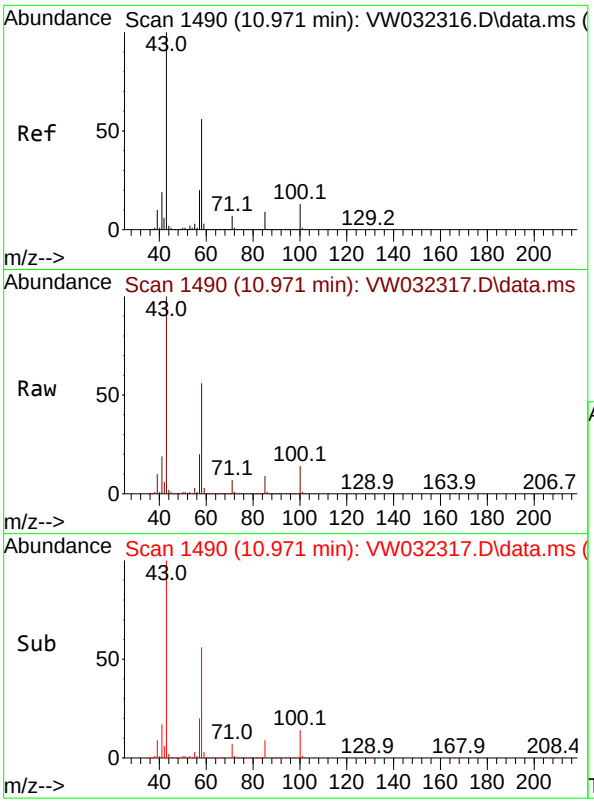


#58
2-Chloroethyl Vinyl ether
Concen: 554.092 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 63 Resp: 1282918

Ion	Ratio	Lower	Upper
63	100		
106	28.3	24.3	36.5

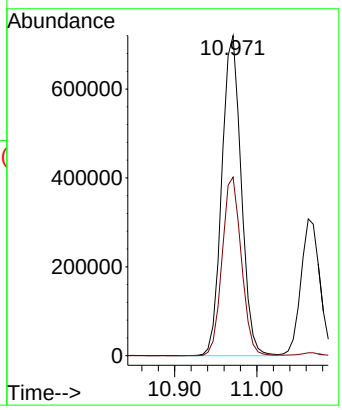




#59
2-Hexanone
Concen: 504.847 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 43 Resp: 117714

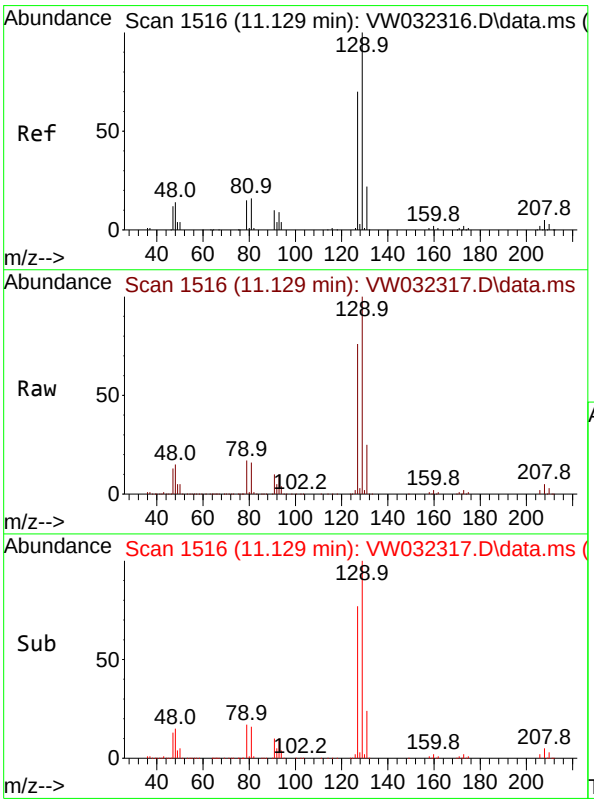
Ion	Ratio	Lower	Upper
43	100		
58	55.5	27.5	82.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

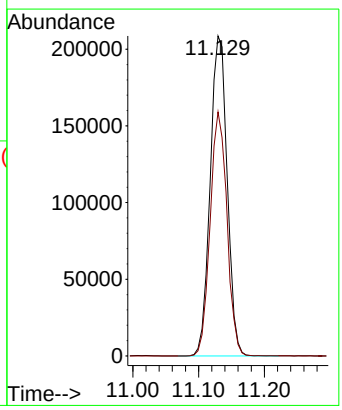
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

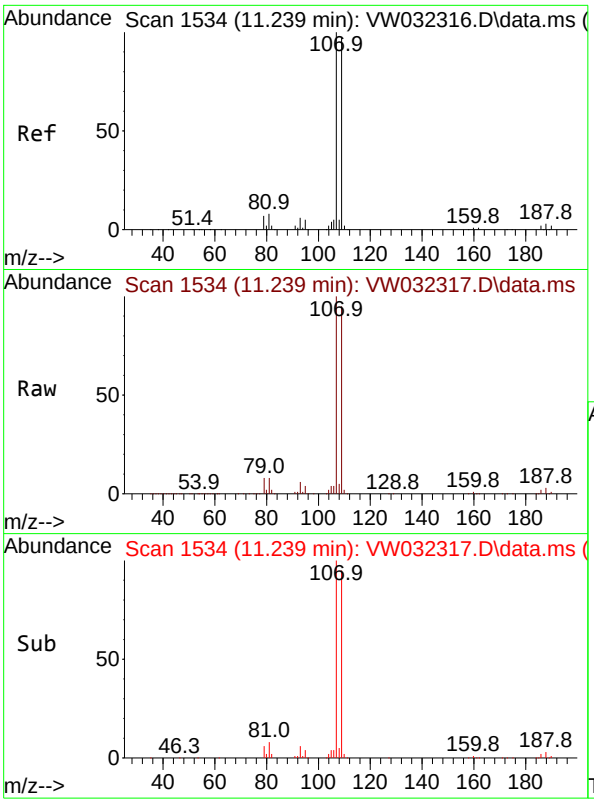


#60
Dibromochloromethane
Concen: 106.254 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:129 Resp: 375002

Ion	Ratio	Lower	Upper
129	100		
127	75.5	38.1	114.5

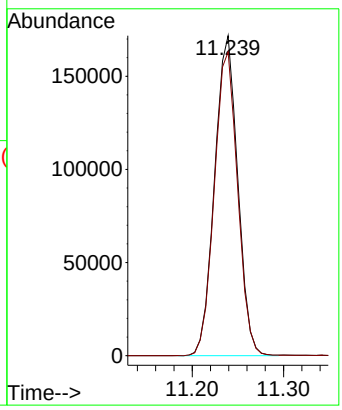




#61
1,2-Dibromoethane
Concen: 99.562 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:107 Resp: 30174

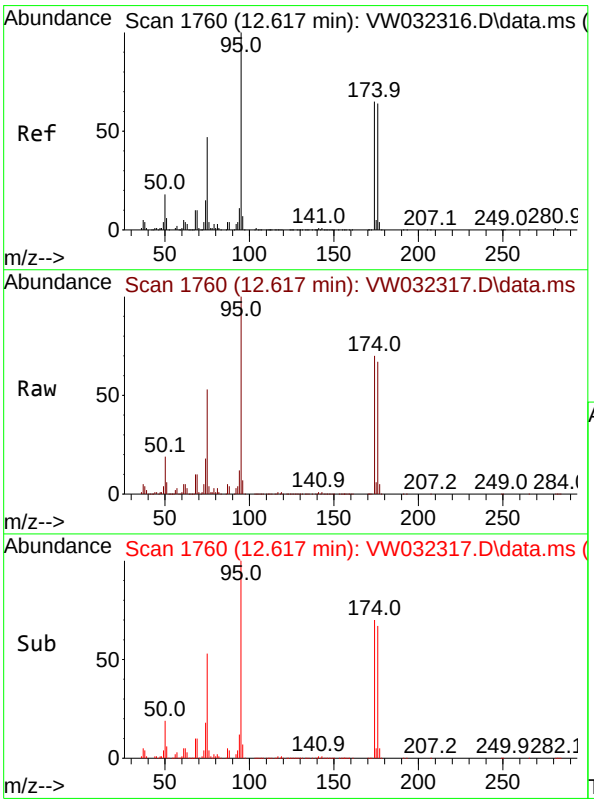
Ion	Ratio	Lower	Upper
107	100		
109	95.8	74.5	111.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

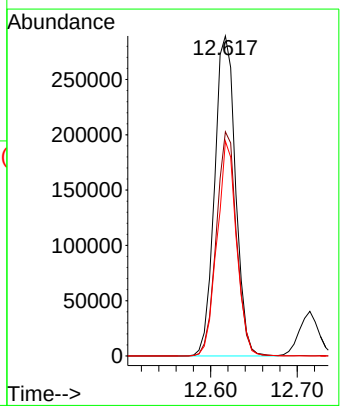
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

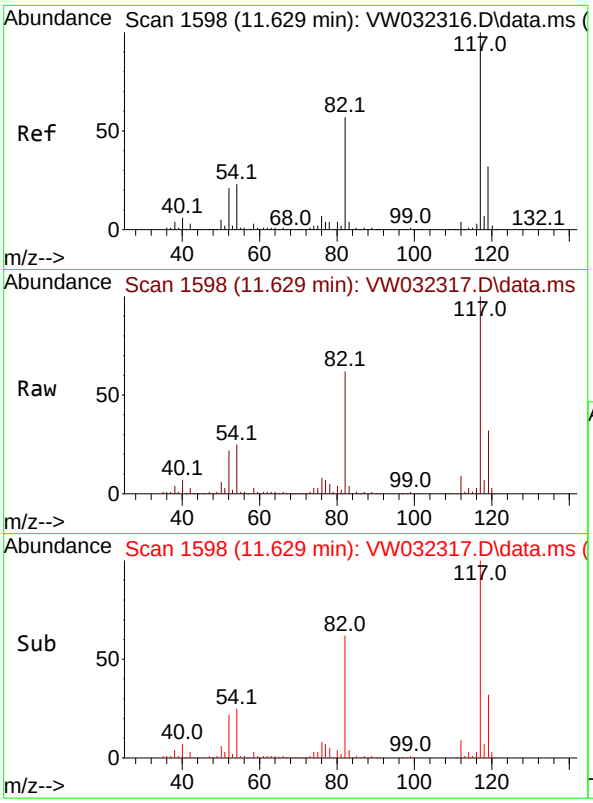


#62
4-Bromofluorobenzene
Concen: 101.586 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 95 Resp: 485396

Ion	Ratio	Lower	Upper
95	100		
174	67.6	0.0	145.6
176	62.7	0.0	140.8

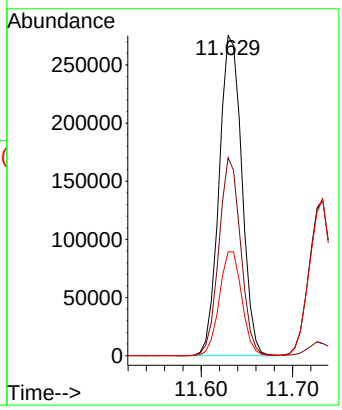




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:117 Resp: 47598

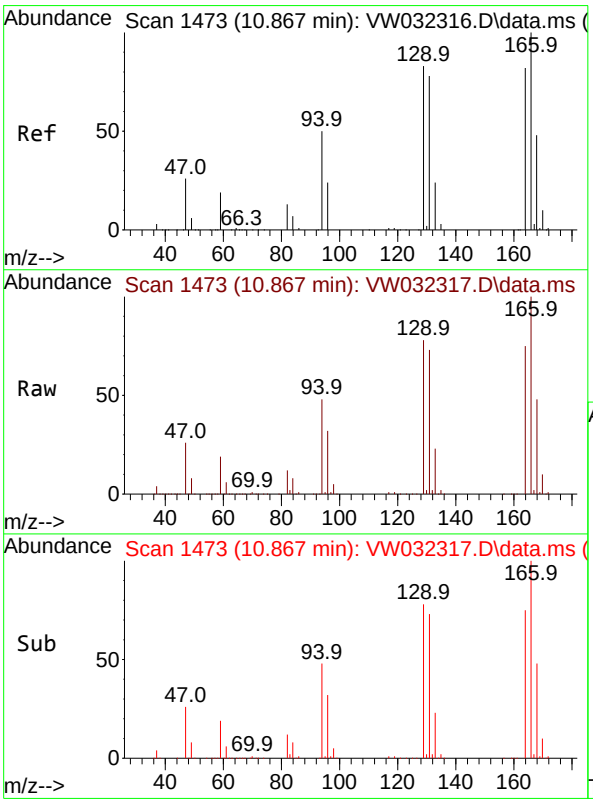
Ion	Ratio	Lower	Upper
117	100		
82	61.9	42.7	64.1
119	32.4	25.2	37.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

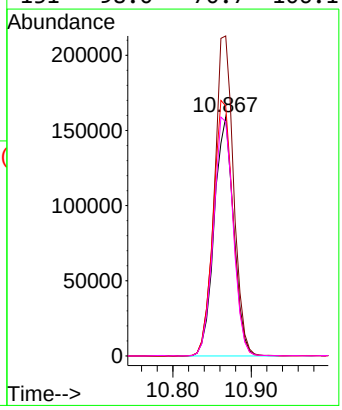
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

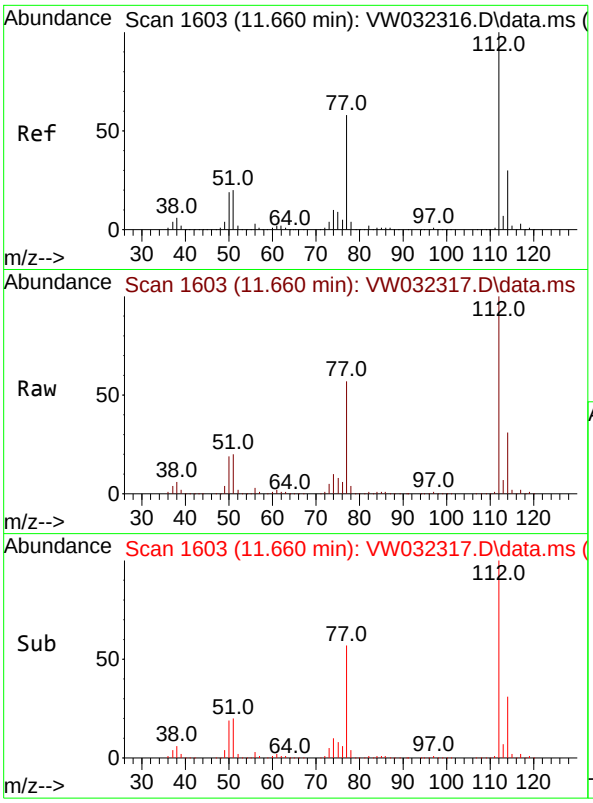


#64
Tetrachloroethene
Concen: 96.034 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:164 Resp: 273519

Ion	Ratio	Lower	Upper
164	100		
166	134.0	97.5	146.3
129	104.7	71.2	106.8
131	98.0	70.7	106.1

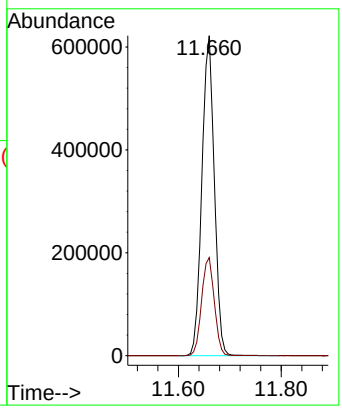




#65
Chlorobenzene
Concen: 99.469 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:112 Resp: 104172

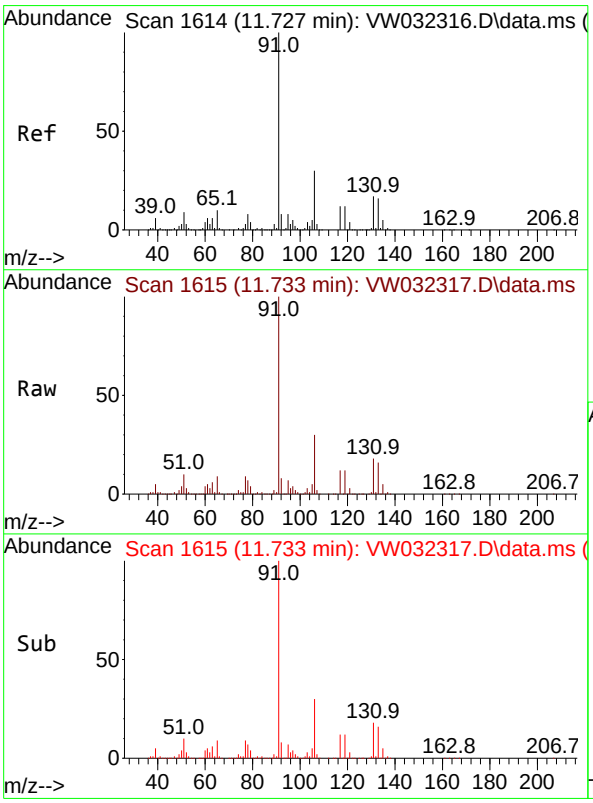
Ion	Ratio	Lower	Upper
112	100		
114	30.7	26.0	39.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

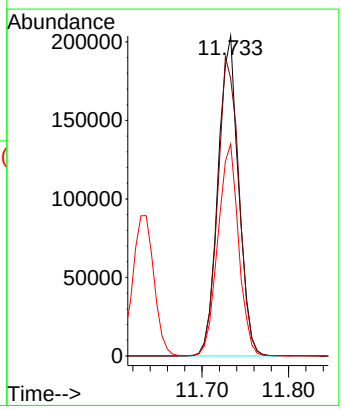
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

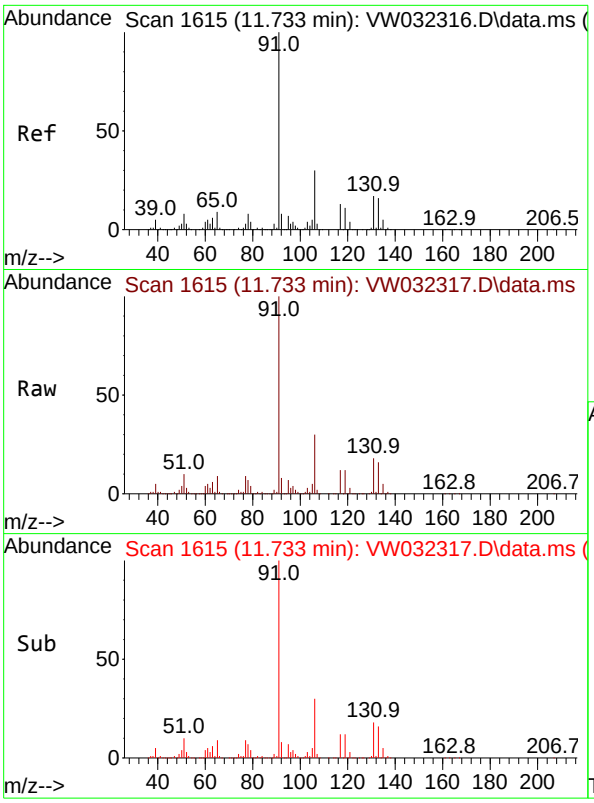


#66
1,1,1,2-Tetrachloroethane
Concen: 102.516 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:131 Resp: 334400

Ion	Ratio	Lower	Upper
131	100		
133	97.0	47.7	143.1
119	66.9	32.8	98.3





#67
Ethyl Benzene
Concen: 103.444 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

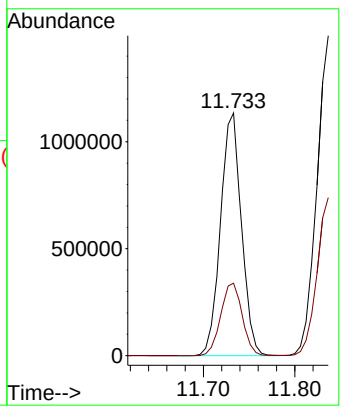
Tgt Ion: 91 Resp: 180581

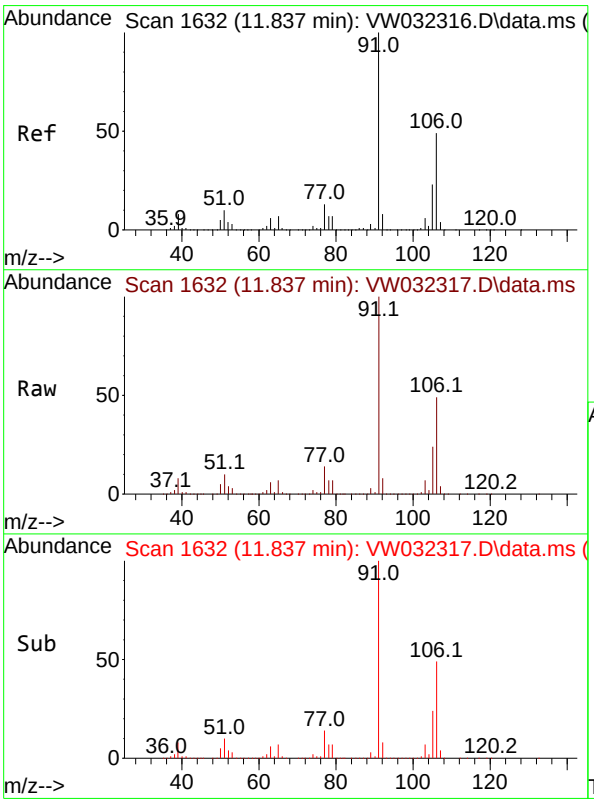
Ion	Ratio	Lower	Upper
91	100		
106	29.9	25.3	37.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

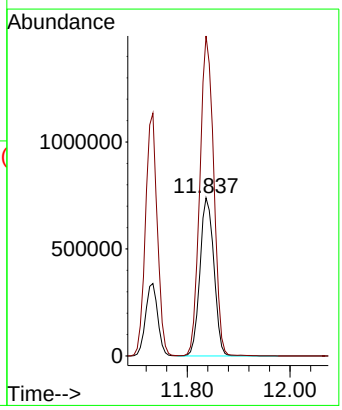


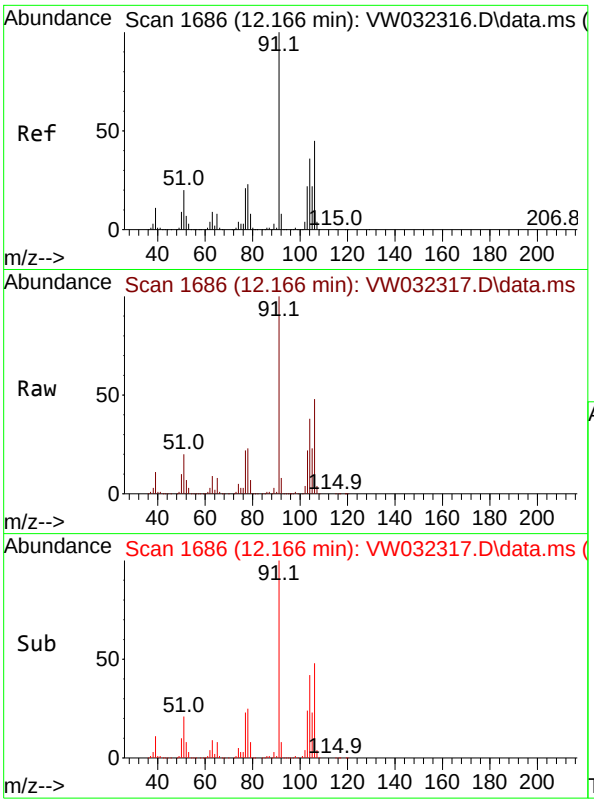


#68
m/p-Xylenes
Concen: 206.584 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:106 Resp: 1390632

Ion	Ratio	Lower	Upper
106	100		
91	201.8	164.2	246.2





#69
o-Xylene
Concen: 106.061 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

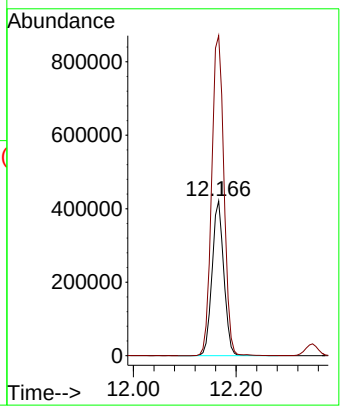
Tgt Ion:106 Resp: 66767

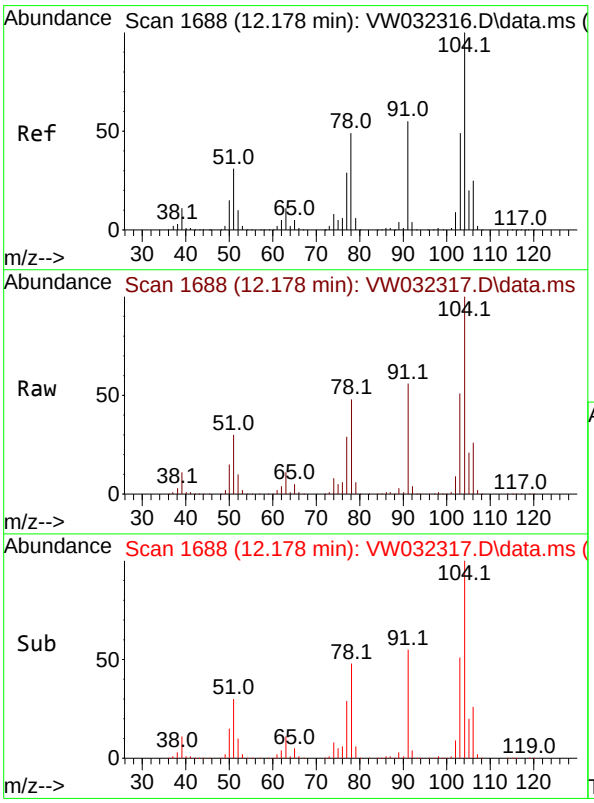
Ion	Ratio	Lower	Upper
106	100		
91	216.2	108.7	326.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

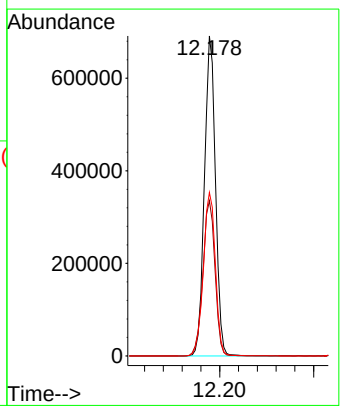


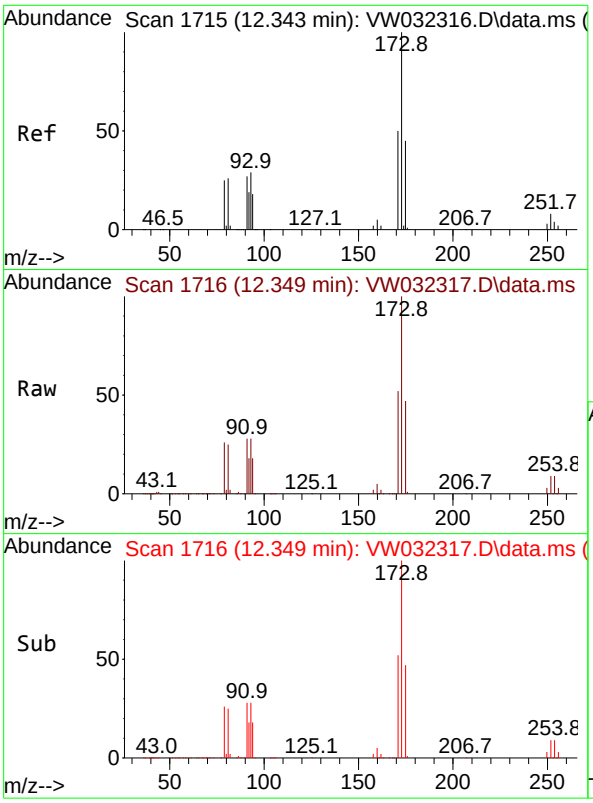


#70
Styrene
Concen: 102.692 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:104 Resp: 1128688

Ion	Ratio	Lower	Upper
104	100		
78	53.2	41.6	62.4
103	55.8	44.8	67.2

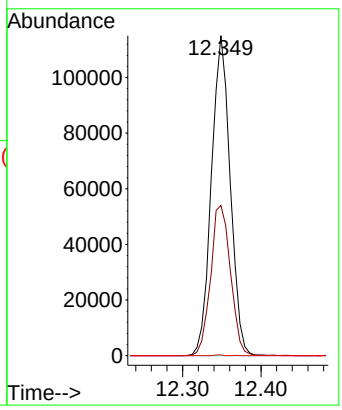




#71
Bromoform
Concen: 102.725 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:173 Resp: 19206

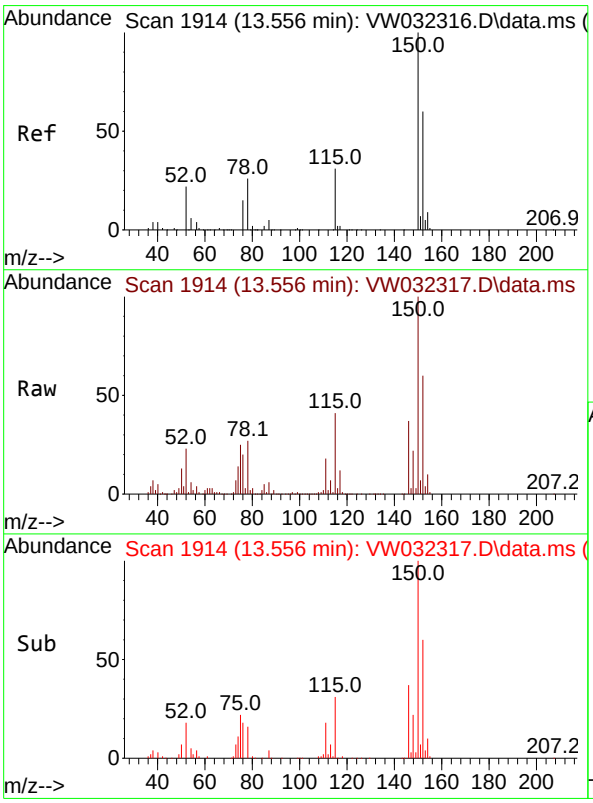
Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.9	74.7
254	0.1	0.2	0.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

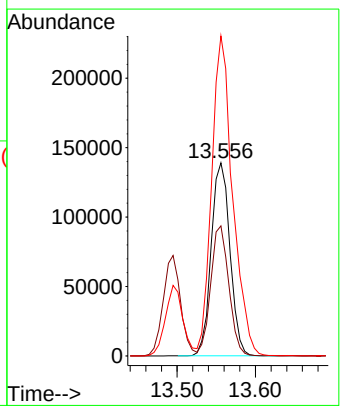
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

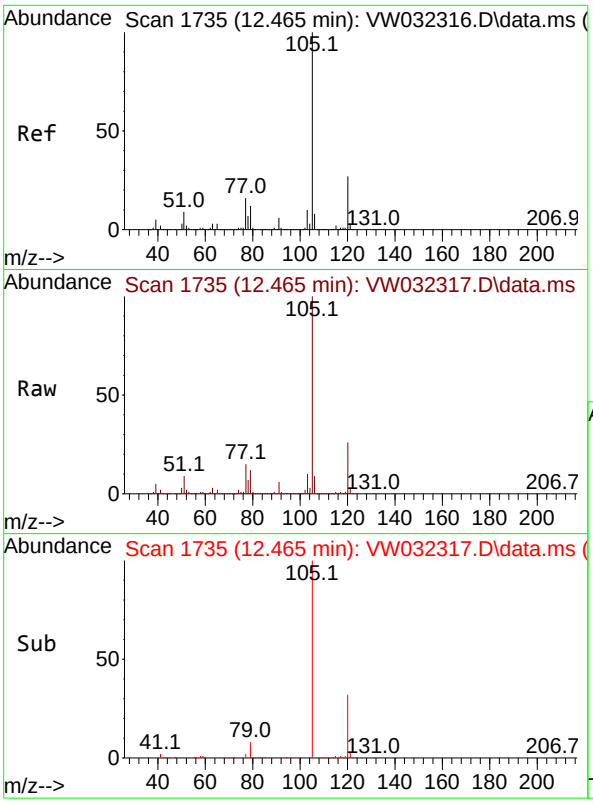


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:152 Resp: 231176

Ion	Ratio	Lower	Upper
152	100		
115	64.9	31.8	95.4
150	185.2	0.0	343.0

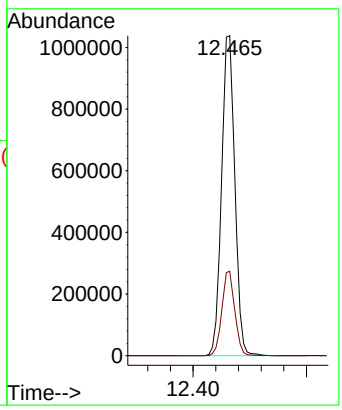




#73
Isopropylbenzene
Concen: 106.560 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:105 Resp: 168535

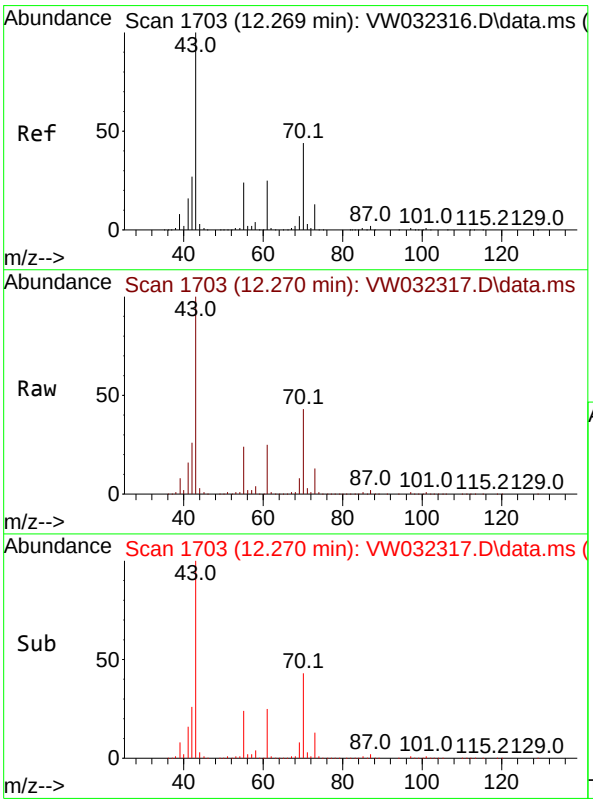
Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.0	38.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

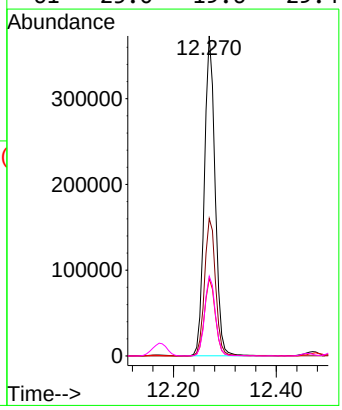
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

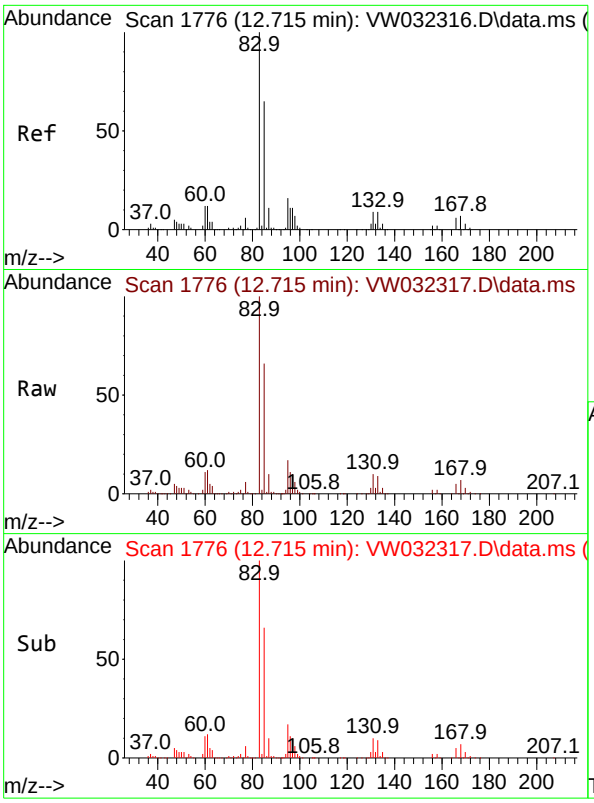


#74
N-amyl acetate
Concen: 107.133 ug/l
RT: 12.270 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 43 Resp: 540543

Ion	Ratio	Lower	Upper
43	100		
70	44.1	35.3	52.9
55	24.5	19.9	29.9
61	25.0	19.6	29.4

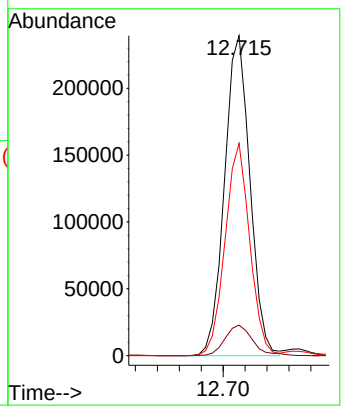




#75
1,1,2,2-Tetrachloroethane
Concen: 98.125 ug/l
RT: 12.715 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 83 Resp: 38534

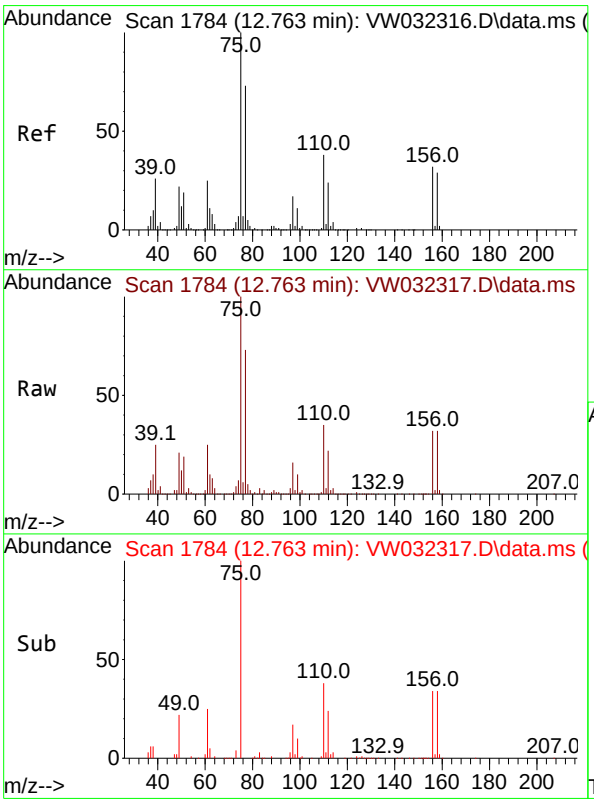
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	64.4	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

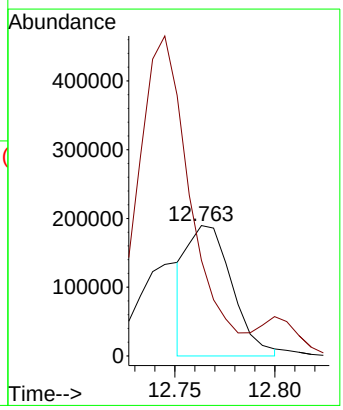
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

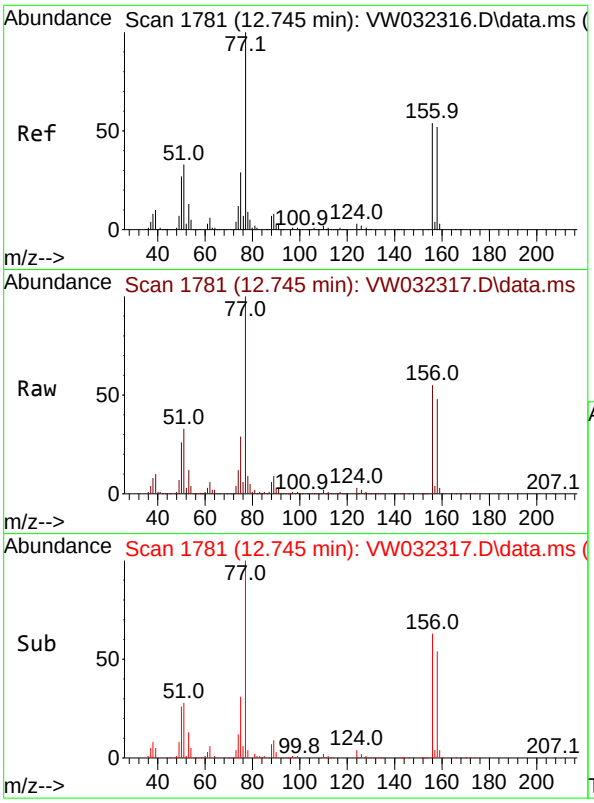


#76
1,2,3-Trichloropropane
Concen: 96.745 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 75 Resp: 295124

Ion	Ratio	Lower	Upper
75	100		
77	286.5	141.7	425.1

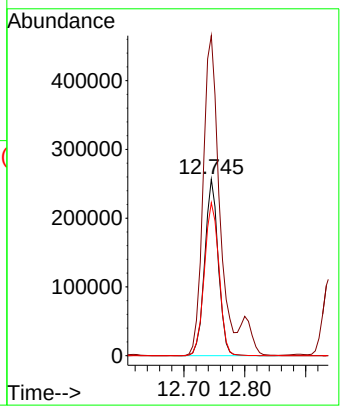




#77
Bromobenzene
Concen: 104.063 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:156 Resp: 39674

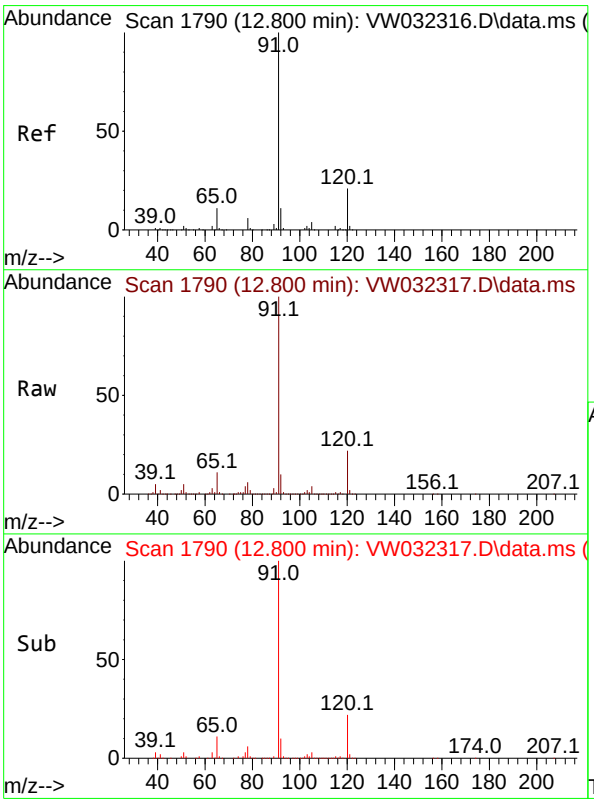
Ion	Ratio	Lower	Upper
156	100		
77	213.1	98.6	295.7
158	93.9	48.4	145.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

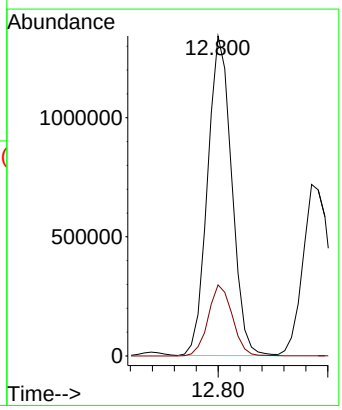
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

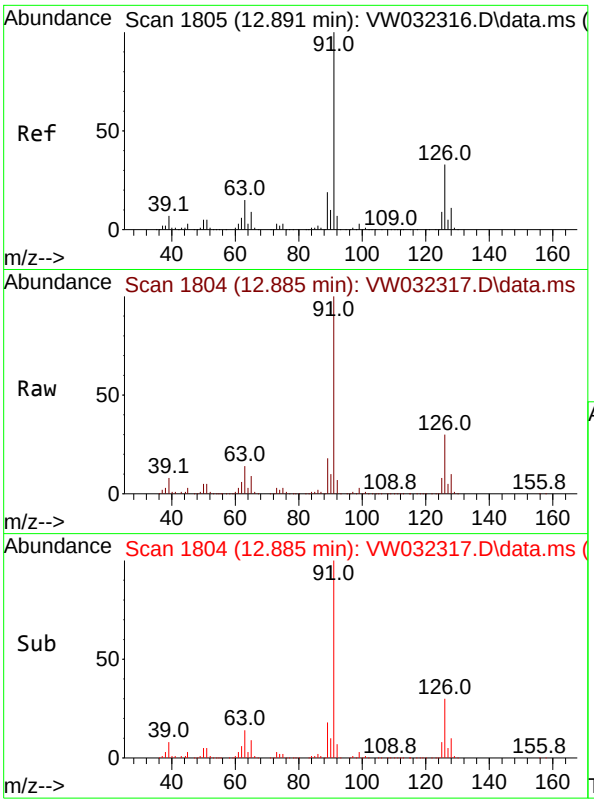


#78
n-propylbenzene
Concen: 103.878 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 91 Resp: 2052249

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.8	35.4

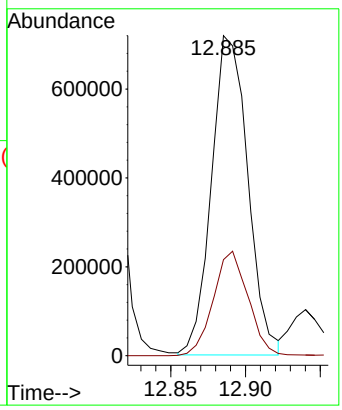




#79
2-Chlorotoluene
Concen: 100.479 ug/l
RT: 12.885 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 91 Resp: 121376

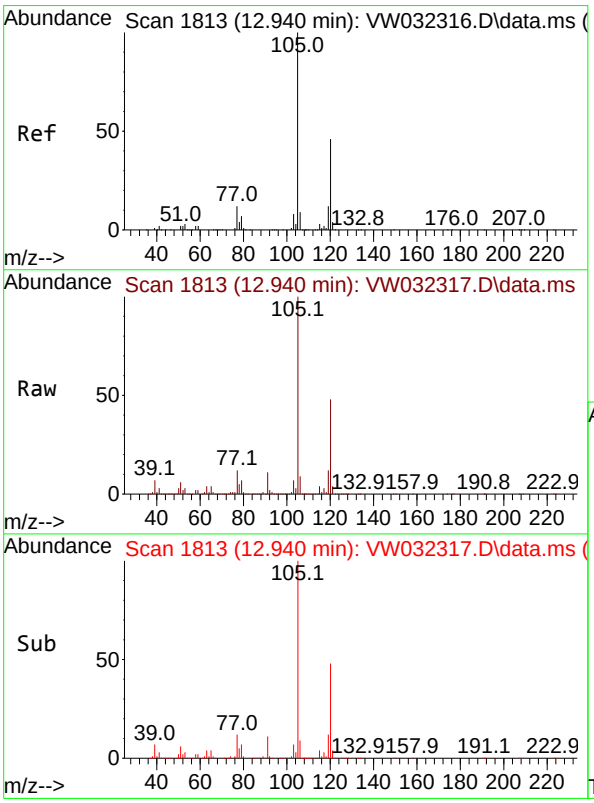
Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.6	49.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

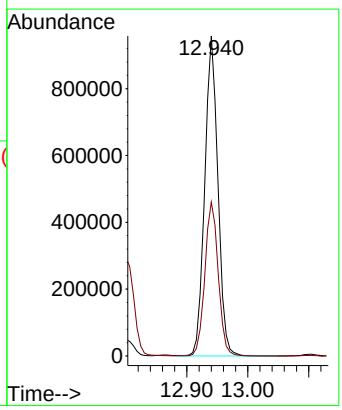
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

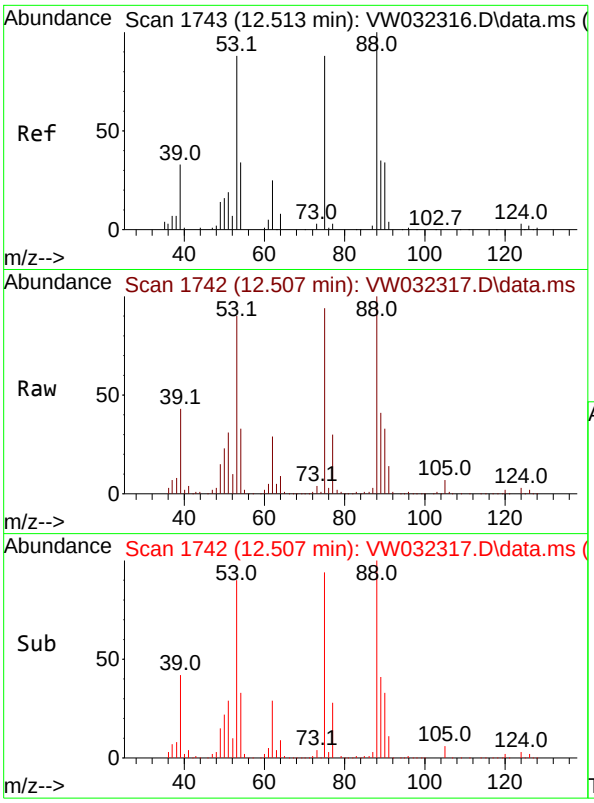


#80
1,3,5-Trimethylbenzene
Concen: 105.277 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:105 Resp: 1439767

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 112.737 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

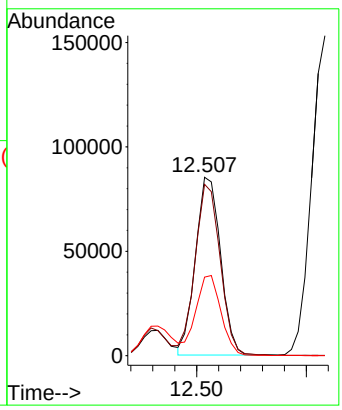
Tgt Ion: 75 Resp: 13538

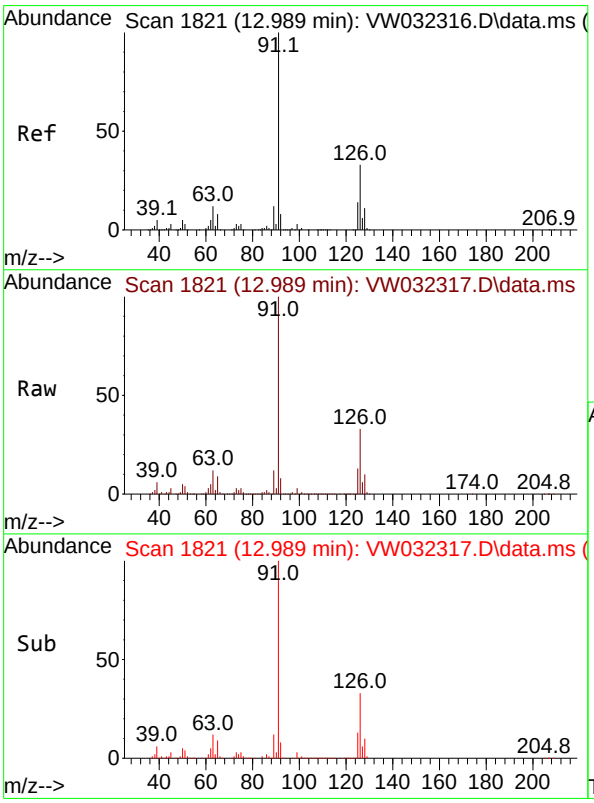
Ion	Ratio	Lower	Upper
75	100		
53	98.1	91.0	136.6
89	45.9	39.4	59.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

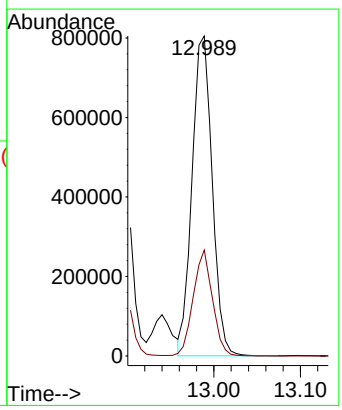


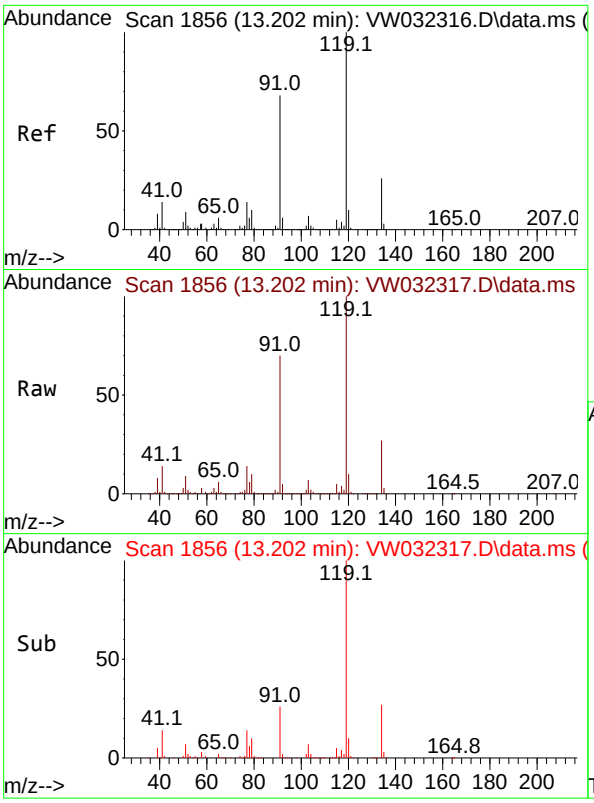


#82
4-Chlorotoluene
Concen: 101.179 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 91 Resp: 1299440

Ion	Ratio	Lower	Upper
91	100		
126	31.7	16.1	48.2

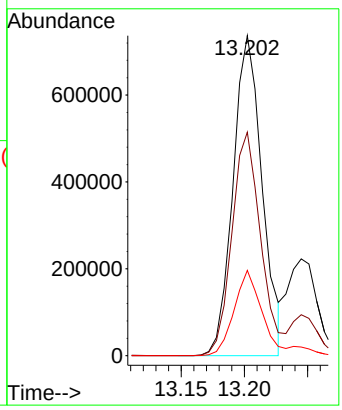




#83
tert-Butylbenzene
Concen: 105.090 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:119 Resp: 117923

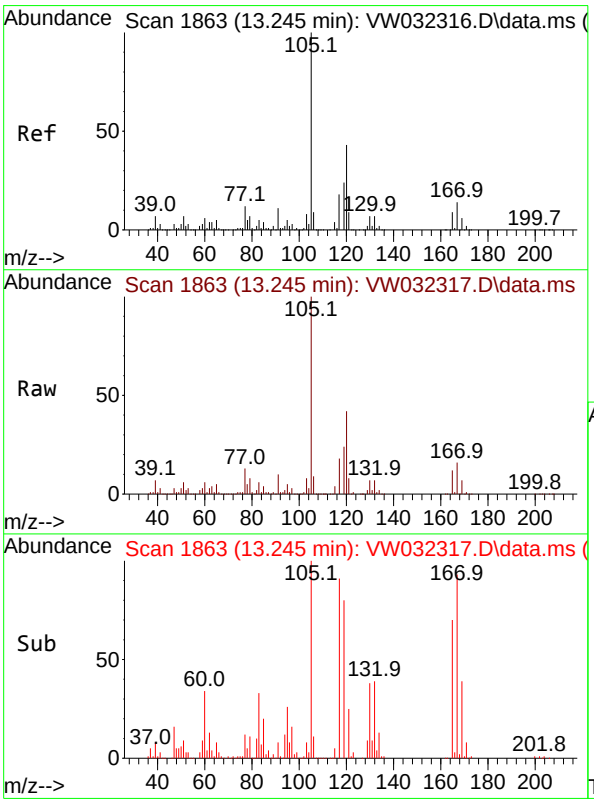
Ion	Ratio	Lower	Upper
119	100		
91	69.8	33.8	101.3
134	25.3	12.5	37.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

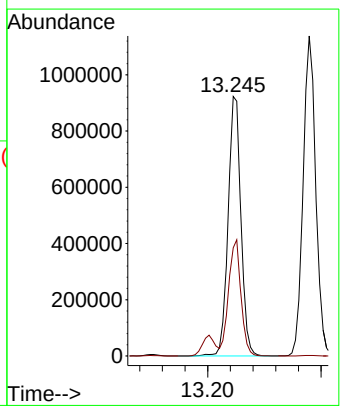
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

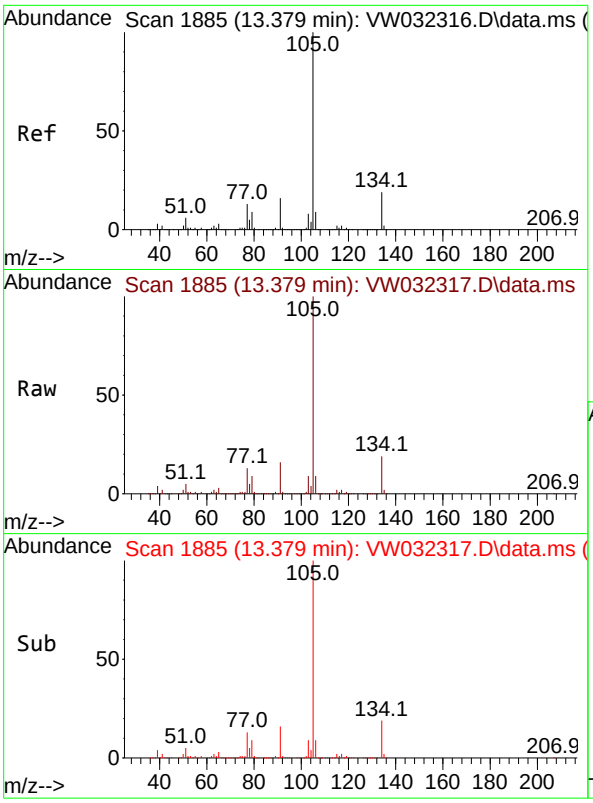


#84
1,2,4-Trimethylbenzene
Concen: 103.930 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:105 Resp: 1445279

Ion	Ratio	Lower	Upper
105	100		
120	43.3	22.1	66.3

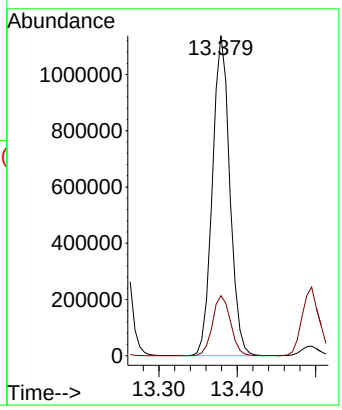




#85
sec-Butylbenzene
Concen: 102.403 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:105 Resp: 175600

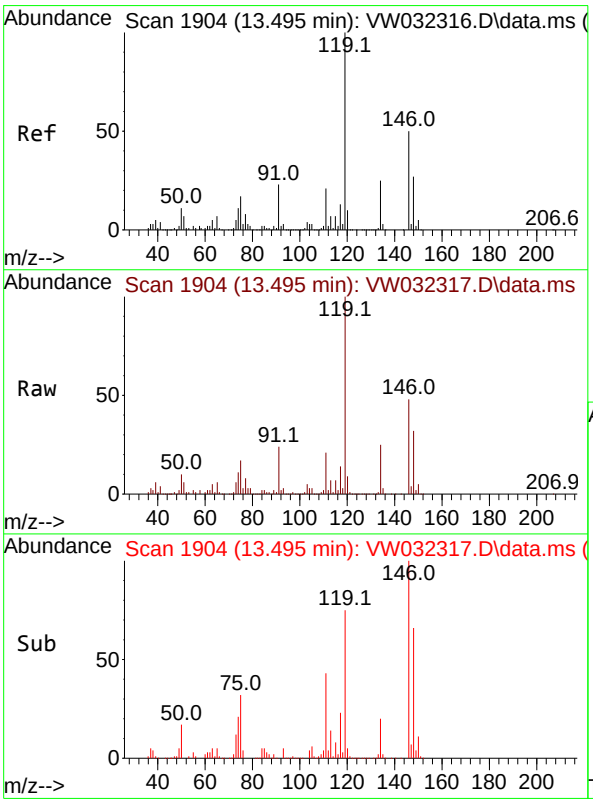
Ion	Ratio	Lower	Upper
105	100		
134	19.4	10.1	30.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

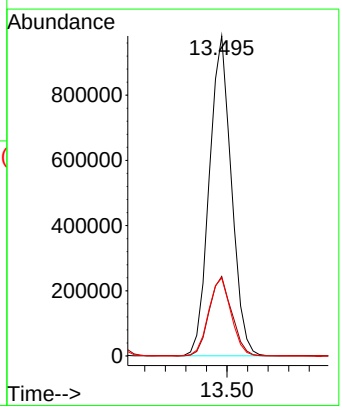
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

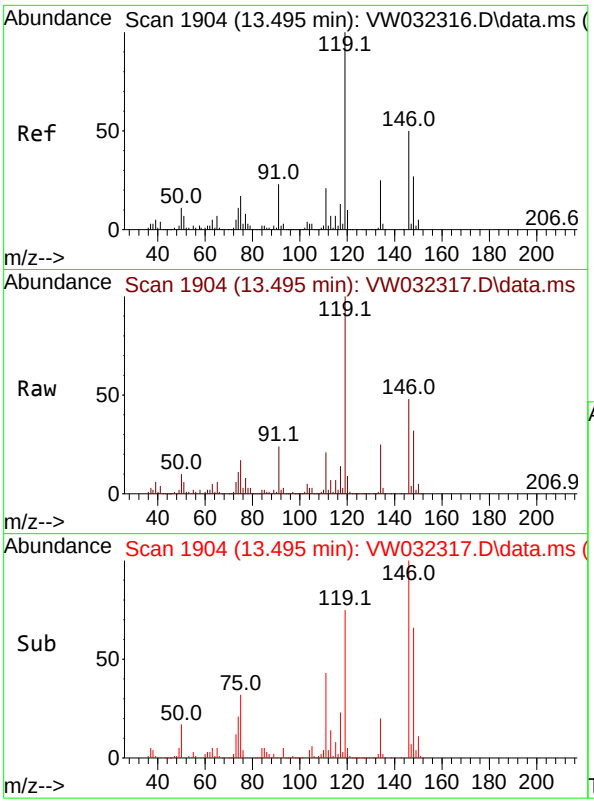


#86
p-Isopropyltoluene
Concen: 102.680 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:119 Resp: 1460991

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.6	37.6
91	24.7	12.4	37.0

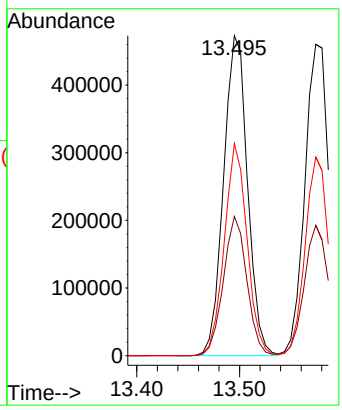




#87
1,3-Dichlorobenzene
Concen: 99.297 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:146 Resp: 76658

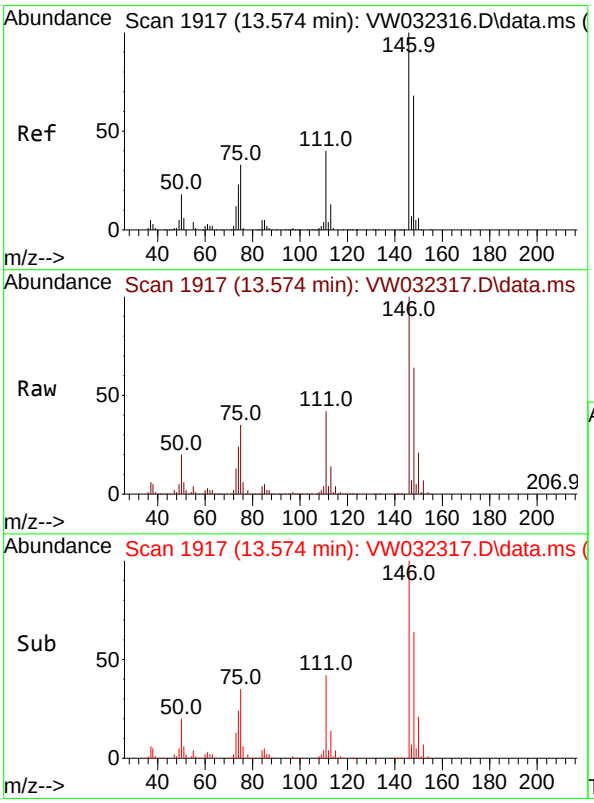
Ion	Ratio	Lower	Upper
146	100		
111	42.6	20.6	61.9
148	63.1	30.6	92.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

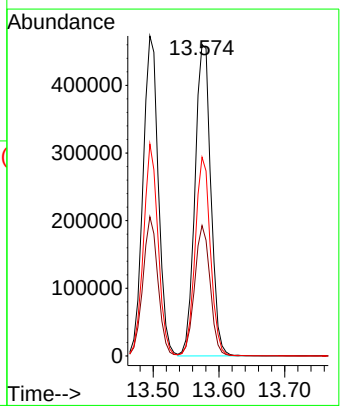
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

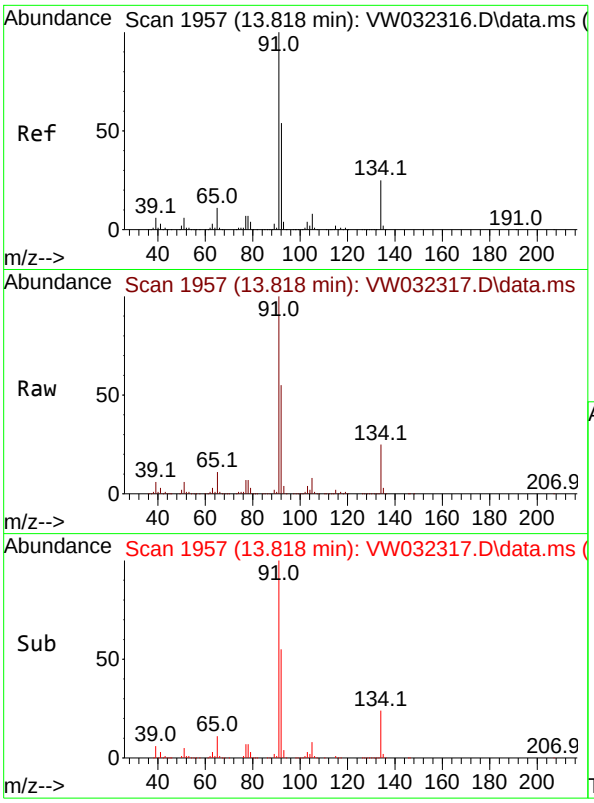


#88
1,4-Dichlorobenzene
Concen: 99.477 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:146 Resp: 767903

Ion	Ratio	Lower	Upper
146	100		
111	40.9	21.3	63.7
148	61.6	33.4	100.1

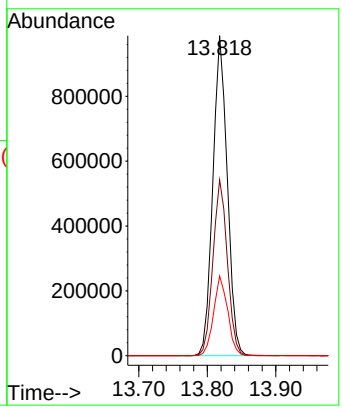




#89
n-Butylbenzene
Concen: 103.706 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 91 Resp: 144070

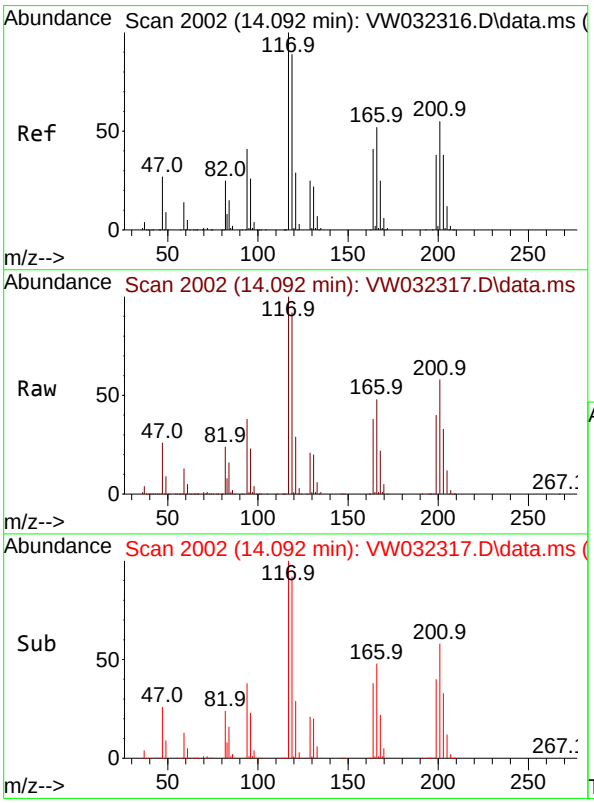
Ion	Ratio	Lower	Upper
91	100		
92	55.0	27.0	81.0
134	24.3	13.1	39.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

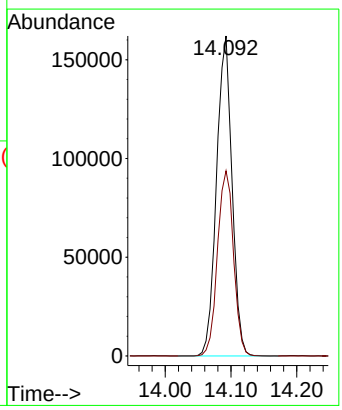
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

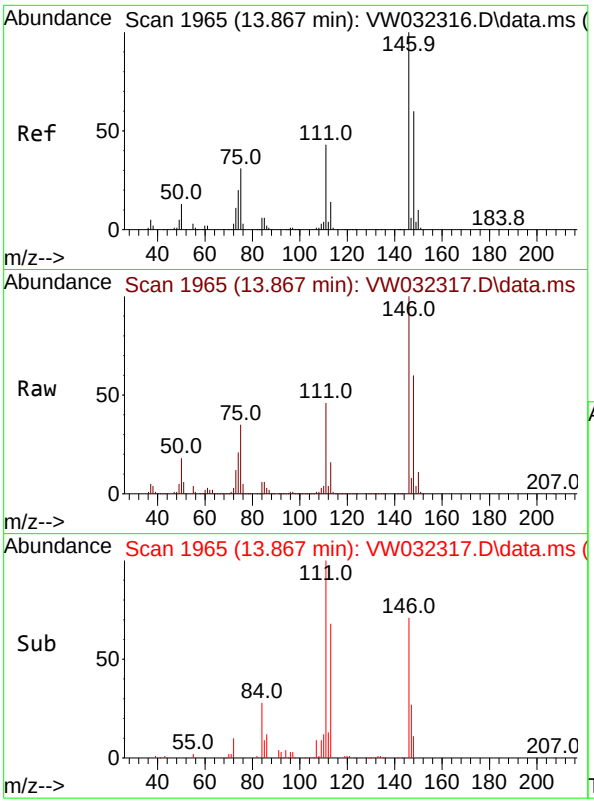


#90
Hexachloroethane
Concen: 104.296 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:117 Resp: 265991

Ion	Ratio	Lower	Upper
117	100		
201	59.9	32.8	98.4

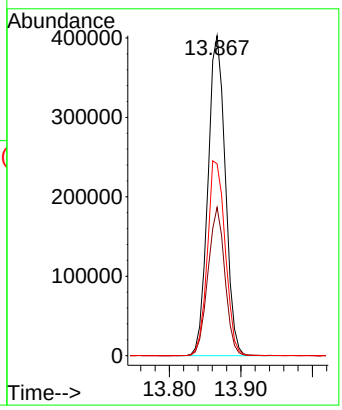




#91
1,2-Dichlorobenzene
Concen: 97.184 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:146 Resp: 67821

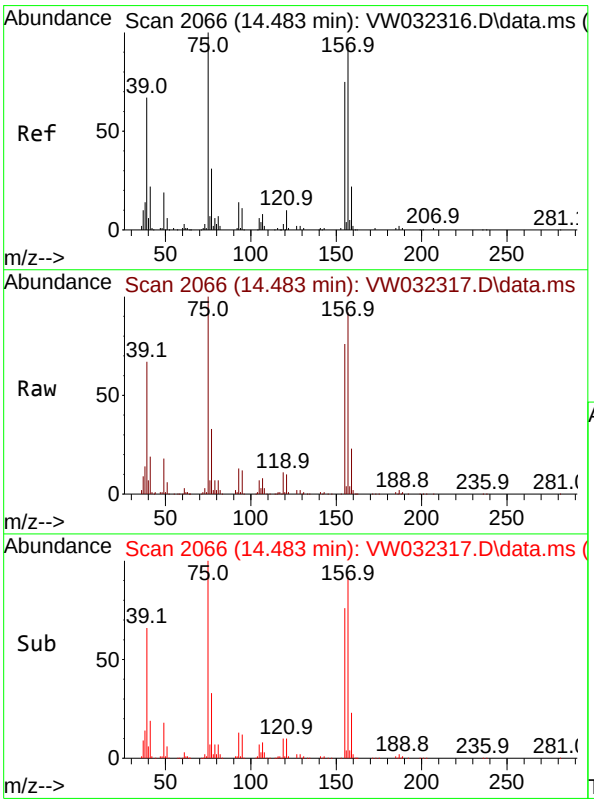
Ion	Ratio	Lower	Upper
146	100		
111	45.2	23.4	70.0
148	62.5	34.1	102.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

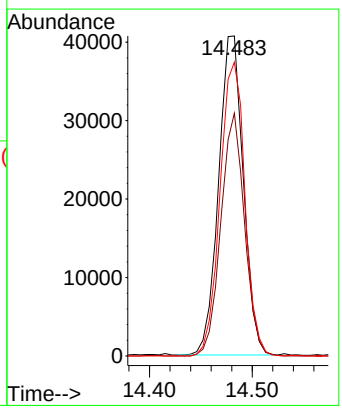
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

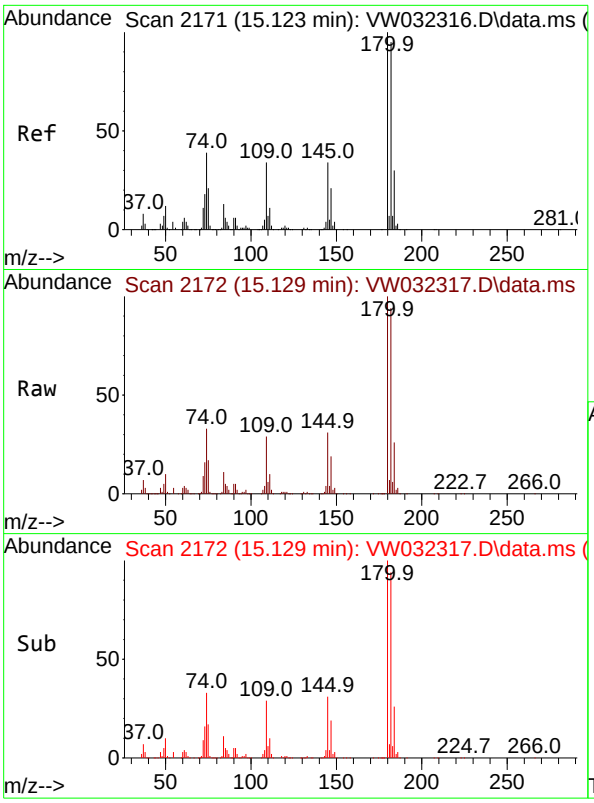


#92
1,2-Dibromo-3-Chloropropane
Concen: 98.781 ug/l
RT: 14.483 min Scan# 2066
Delta R.T. 0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion: 75 Resp: 67919

Ion	Ratio	Lower	Upper
75	100		
155	72.8	40.8	122.5
157	92.4	51.8	155.4

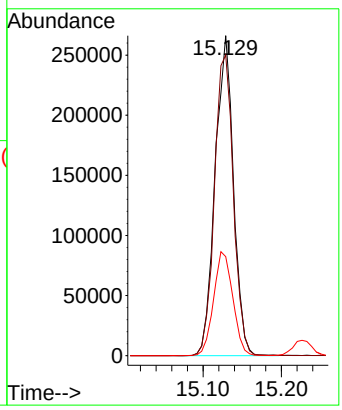




#93
1,2,4-Trichlorobenzene
Concen: 103.645 ug/l
RT: 15.129 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:180 Resp: 43372

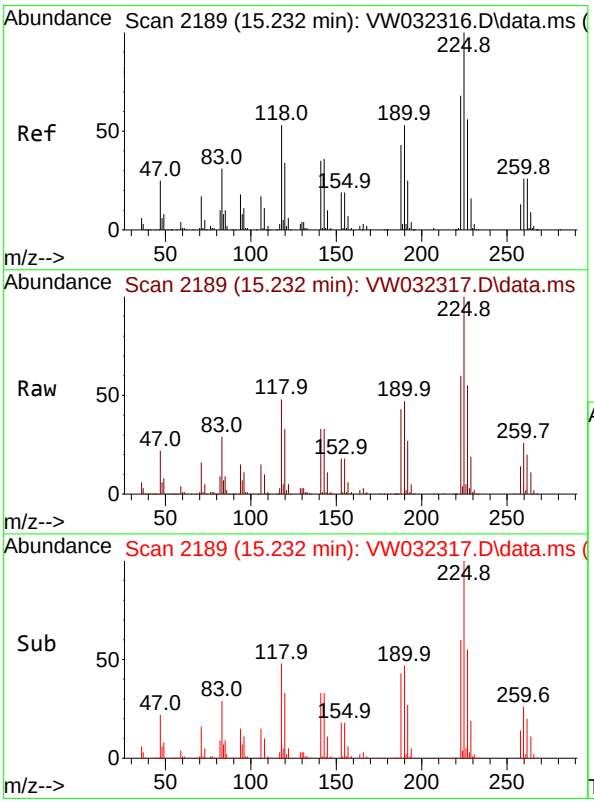
Ion	Ratio	Lower	Upper
180	100		
182	97.3	47.4	142.2
145	34.0	16.4	49.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

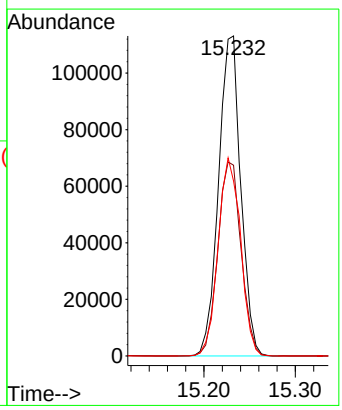
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

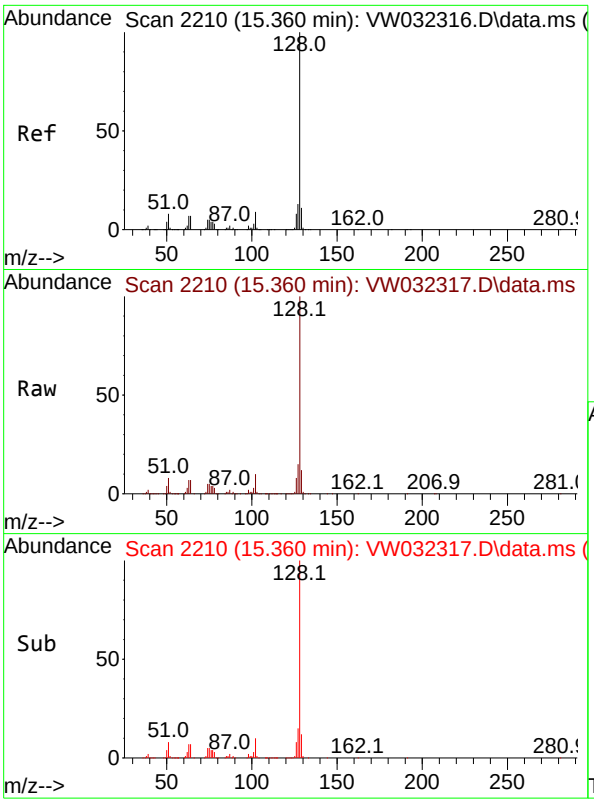


#94
Hexachlorobutadiene
Concen: 99.894 ug/l
RT: 15.232 min Scan# 2189
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:225 Resp: 191123

Ion	Ratio	Lower	Upper
225	100		
223	63.2	29.8	89.3
227	62.6	30.5	91.5

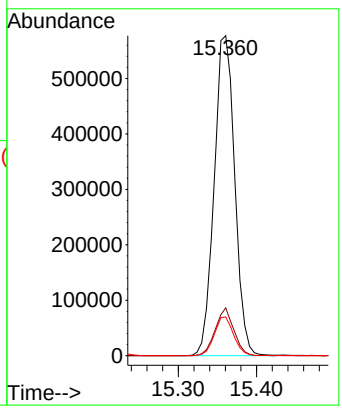




#95
Naphthalene
Concen: 104.900 ug/l
RT: 15.360 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:128 Resp: 105420

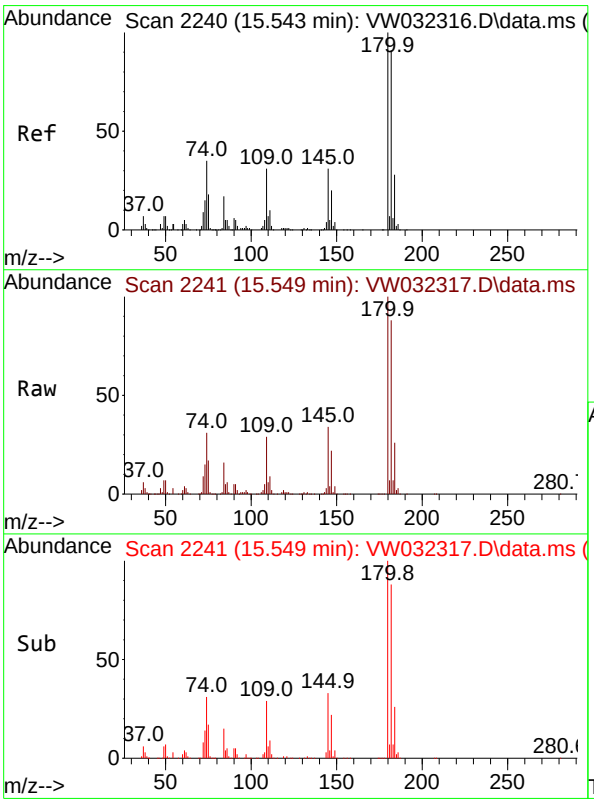
Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.6	16.0
129	11.4	8.4	12.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

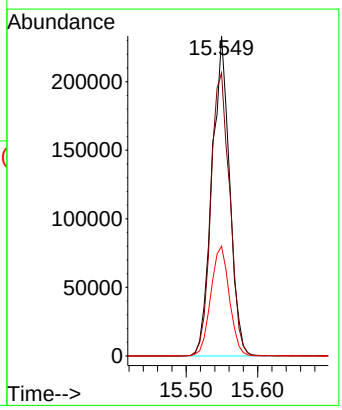
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 101.292 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.006 min
Lab File: VW032317.D
Acq: 01 Oct 2025 14:59

Tgt Ion:180 Resp: 399527

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.7	143.1
145	36.1	17.2	51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032318.D
Acq On : 01 Oct 2025 15:20
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:17:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	291156	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	539030	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	484985	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	222254	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	616717	145.223	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 290.440%#			
35) Dibromofluoromethane	7.898	113	503547	144.249	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 288.500%#			
50) Toluene-d8	10.325	98	1931096	149.885	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 299.780%#			
62) 4-Bromofluorobenzene	12.617	95	721146	148.089	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 296.180%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.040	85	261383	143.063	ug/l	97
3) Chloromethane	2.259	50	404786	143.584	ug/l	97
4) Vinyl Chloride	2.405	62	470035	139.655	ug/l	98
5) Bromomethane	2.814	94	337072	136.281	ug/l	100
6) Chloroethane	2.966	64	315013	141.765	ug/l	100
7) Trichlorofluoromethane	3.302	101	390434	154.935	ug/l	90
8) Diethyl Ether	3.722	74	319023	146.096	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.100	101	417711	138.198	ug/l	92
10) Methyl Iodide	4.308	142	634551	147.136	ug/l	98
11) Tert butyl alcohol	5.222	59	234095	728.258	ug/l	96
12) 1,1-Dichloroethene	4.076	96	467506	142.471	ug/l	91
13) Acrolein	3.930	56	366309	702.158	ug/l	94
14) Allyl chloride	4.704	41	826844	149.185	ug/l	88
15) Acrylonitrile	5.405	53	873212	768.664	ug/l	98
16) Acetone	4.161	43	790475	672.241	ug/l	100
17) Carbon Disulfide	4.417	76	1328431	148.374	ug/l	99
18) Methyl Acetate	4.710	43	517404	153.605	ug/l	98
19) Methyl tert-butyl Ether	5.466	73	959825	148.511	ug/l	98
20) Methylene Chloride	4.960	84	546261	151.150	ug/l	98
21) trans-1,2-Dichloroethene	5.454	96	538776	148.302	ug/l	96
22) Diisopropyl ether	6.344	45	1710365	148.385	ug/l	93
23) Vinyl Acetate	6.283	43	6026856	782.812	ug/l	100
24) 1,1-Dichloroethane	6.246	63	1023465	146.150	ug/l	98
25) 2-Butanone	7.191	43	1210042	755.574	ug/l	99
26) 2,2-Dichloropropane	7.185	77	504110	140.732	ug/l	98
27) cis-1,2-Dichloroethene	7.191	96	650040	148.941	ug/l	95
28) Bromochloromethane	7.533	49	486570	147.682	ug/l	88
29) Tetrahydrofuran	7.551	42	782184	776.649	ug/l	94
30) Chloroform	7.691	83	1028785	144.857	ug/l	98
31) Cyclohexane	7.971	56	820370	137.222	ug/l	94
32) 1,1,1-Trichloroethane	7.886	97	717558	142.581	ug/l	99
36) 1,1-Dichloropropene	8.093	75	721795	146.511	ug/l	97
37) Ethyl Acetate	7.276	43	501366	152.893	ug/l	99
38) Carbon Tetrachloride	8.081	117	694408	149.786	ug/l	99
39) Methylcyclohexane	9.343	83	907851	152.772	ug/l	93
40) Benzene	8.337	78	2220041	143.766	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032318.D
Acq On : 01 Oct 2025 15:20
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:17:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	7.502	41	282967	160.121 ug/l		92
42) 1,2-Dichloroethane	8.410	62	732140	144.899 ug/l		99
43) Isopropyl Acetate	8.435	43	929737	159.826 ug/l		99
44) Trichloroethene	9.099	130	531979	147.127 ug/l		87
45) 1,2-Dichloropropane	9.374	63	559634	145.193 ug/l		99
46) Dibromomethane	9.465	93	347379	146.565 ug/l		95
47) Bromodichloromethane	9.654	83	807902	149.030 ug/l		96
48) Methyl methacrylate	9.441	41	459352	162.411 ug/l	#	91
49) 1,4-Dioxane	9.459	88	102853	3174.916 ug/l		93
51) 4-Methyl-2-Pentanone	10.215	43	2563648	760.880 ug/l		99
52) Toluene	10.392	92	1416495	147.299 ug/l		96
53) t-1,3-Dichloropropene	10.611	75	845826	160.824 ug/l		99
54) cis-1,3-Dichloropropene	10.081	75	944717	155.941 ug/l		93
55) 1,1,2-Trichloroethane	10.788	97	460089	145.242 ug/l		98
56) Ethyl methacrylate	10.648	69	733869	165.515 ug/l		95
57) 1,3-Dichloropropane	10.934	76	820516	146.656 ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	2014602	853.757 ug/l		96
59) 2-Hexanone	10.971	43	1842050	775.163 ug/l		99
60) Dibromochloromethane	11.129	129	554578	154.183 ug/l		98
61) 1,2-Dibromoethane	11.239	107	463449	150.041 ug/l		99
64) Tetrachloroethene	10.867	164	406564	140.097 ug/l	#	82
65) Chlorobenzene	11.660	112	1557035	145.914 ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.733	131	510773	153.680 ug/l		97
67) Ethyl Benzene	11.733	91	2684011	150.897 ug/l		100
68) m/p-Xylenes	11.837	106	2051963	299.170 ug/l		100
69) o-Xylene	12.166	106	986773	153.842 ug/l		99
70) Styrene	12.178	104	1725722	154.098 ug/l		98
71) Bromoform	12.349	173	304225	159.692 ug/l	#	99
73) Isopropylbenzene	12.465	105	2476143	162.844 ug/l		99
74) N-amyl acetate	12.269	43	829796	171.063 ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.715	83	579686	153.538 ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	441352m	150.487 ug/l		
77) Bromobenzene	12.745	156	569028	155.243 ug/l		89
78) n-propylbenzene	12.800	91	3001989	158.050 ug/l		98
79) 2-Chlorotoluene	12.891	91	1832239	157.767 ug/l		97
80) 1,3,5-Trimethylbenzene	12.940	105	2080060	158.201 ug/l		99
81) trans-1,4-Dichloro-2-b...	12.513	75	204880	177.457 ug/l		89
82) 4-Chlorotoluene	12.983	91	1892838	153.300 ug/l		99
83) tert-Butylbenzene	13.202	119	1689407	156.599 ug/l		93
84) 1,2,4-Trimethylbenzene	13.245	105	2037112	152.369 ug/l		99
85) sec-Butylbenzene	13.379	105	2654122	160.991 ug/l		97
86) p-Isopropyltoluene	13.495	119	2141983	156.585 ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	1147994	154.671 ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	1064904	143.490 ug/l		99
89) n-Butylbenzene	13.818	91	2169211	162.413 ug/l		99
90) Hexachloroethane	14.092	117	392482	160.071 ug/l		94
91) 1,2-Dichlorobenzene	13.867	146	1027041	153.076 ug/l		94
92) 1,2-Dibromo-3-Chloropr...	14.476	75	106355	160.891 ug/l		93
93) 1,2,4-Trichlorobenzene	15.129	180	664620	165.196 ug/l		97
94) Hexachlorobutadiene	15.226	225	283170	153.946 ug/l		99
95) Naphthalene	15.360	128	1692473	175.173 ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	596762	157.371 ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032318.D
Acq On : 01 Oct 2025 15:20
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:17:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

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

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

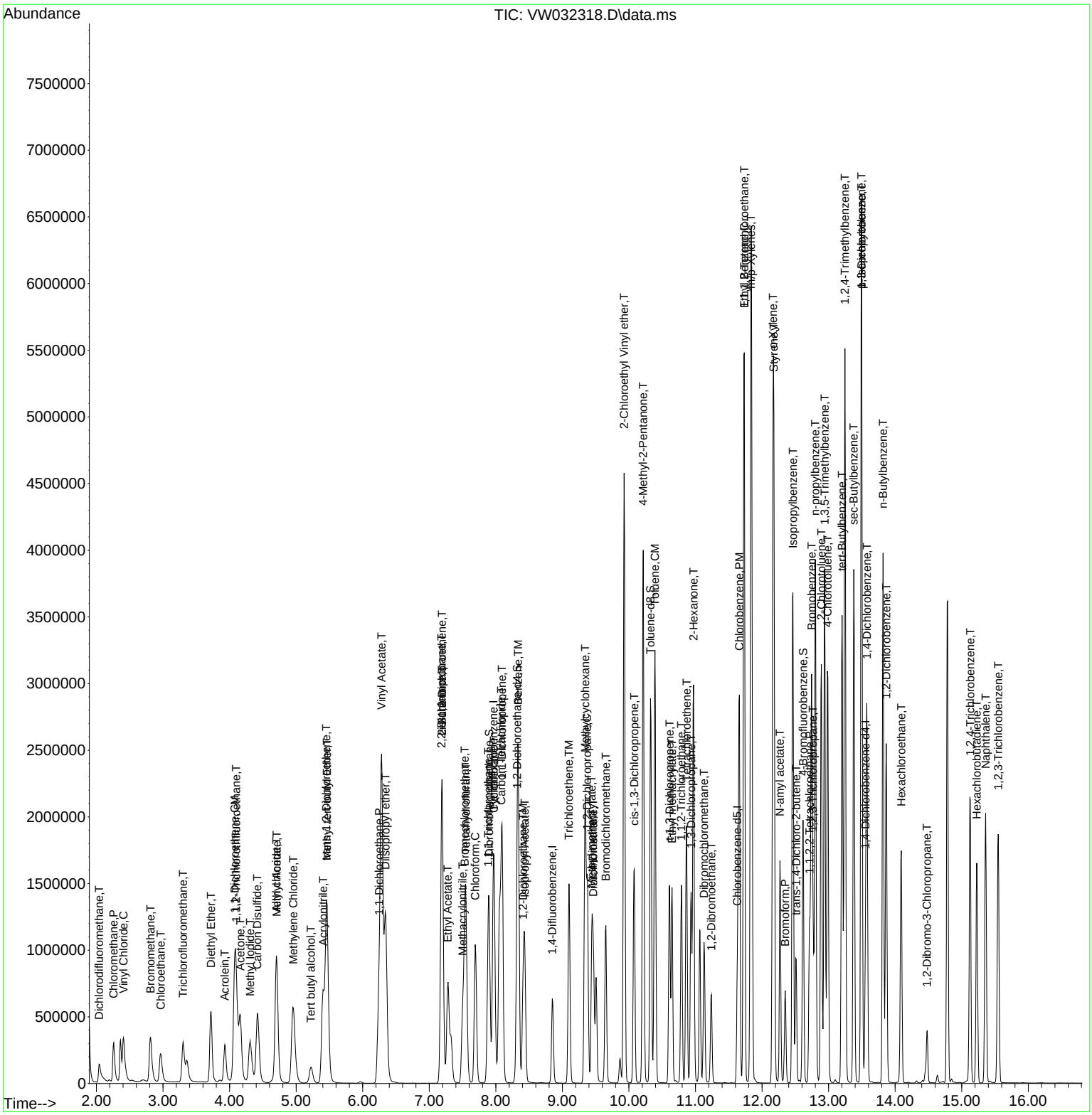
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032318.D
Acq On : 01 Oct 2025 15:20
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

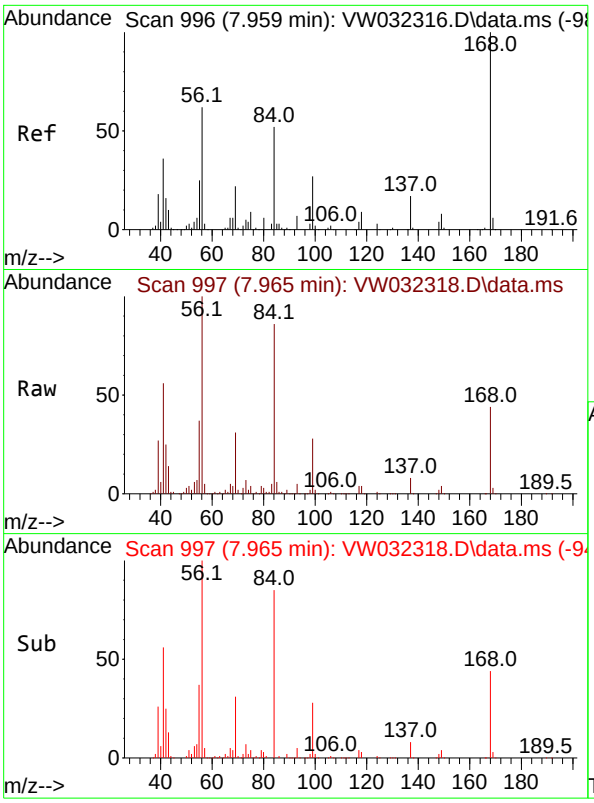
Quant Time: Oct 02 21:17:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:10:58 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

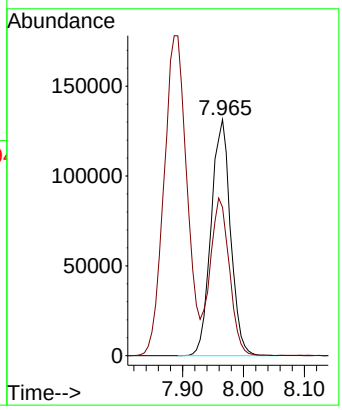




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:168 Resp: 29115

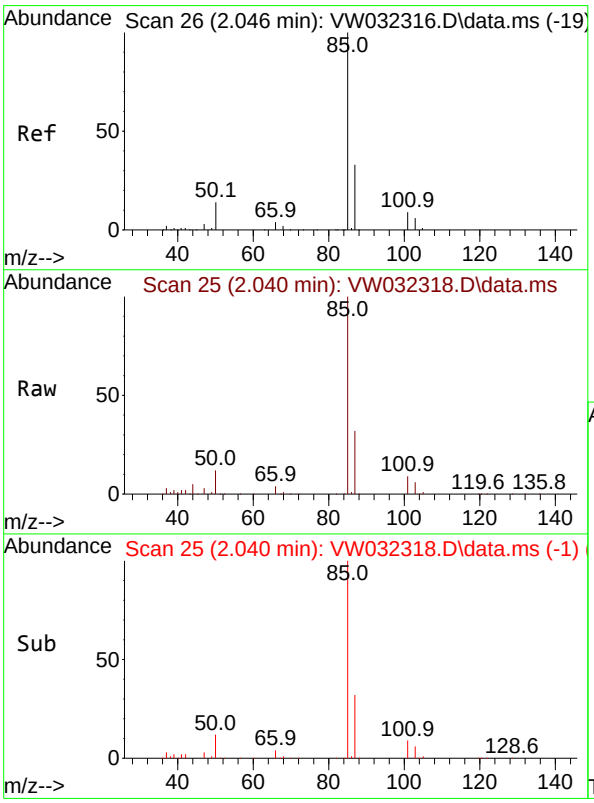
Ion	Ratio	Lower	Upper
168	100		
99	62.7	49.3	73.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

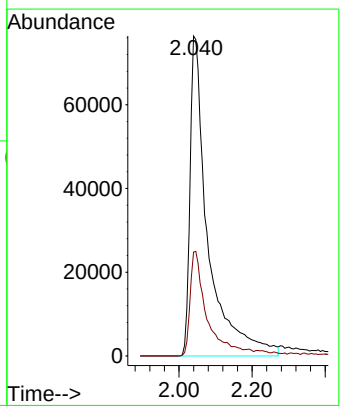
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

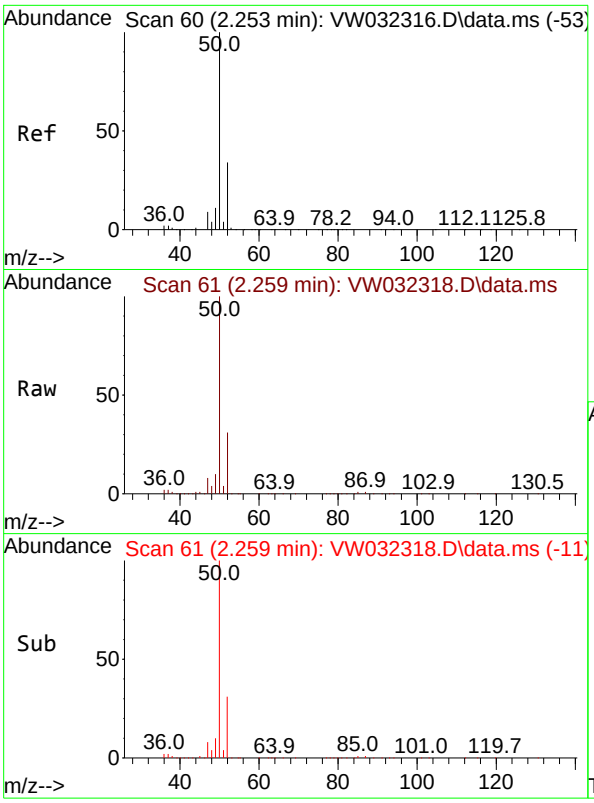


#2
Dichlorodifluoromethane
Concen: 143.063 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 85 Resp: 261383

Ion	Ratio	Lower	Upper
85	100		
87	32.5	17.2	51.6

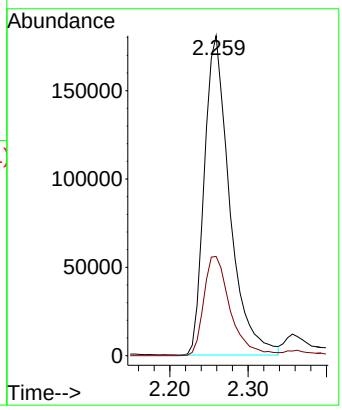




#3
Chloromethane
Concen: 143.584 ug/l
RT: 2.259 min Scan# 6
Delta R.T. 0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 50 Resp: 40478

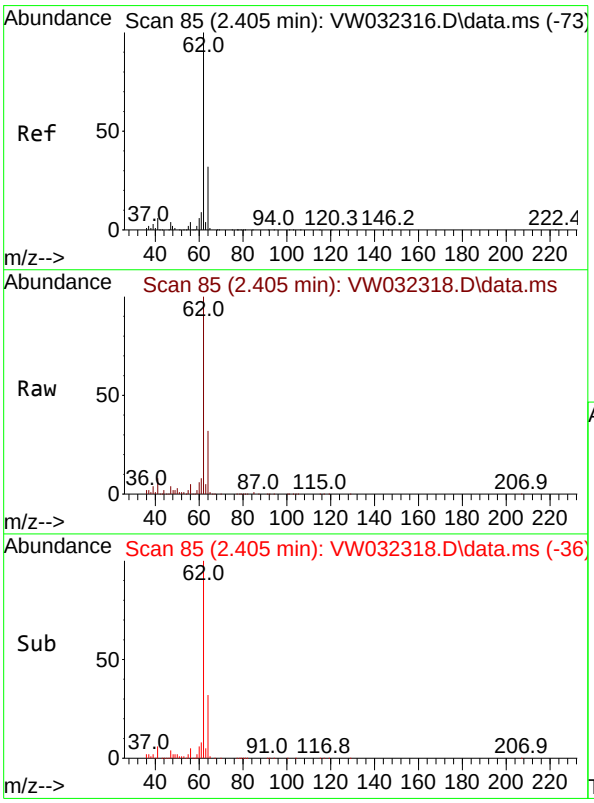
Ion	Ratio	Lower	Upper
50	100		
52	31.1	26.1	39.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

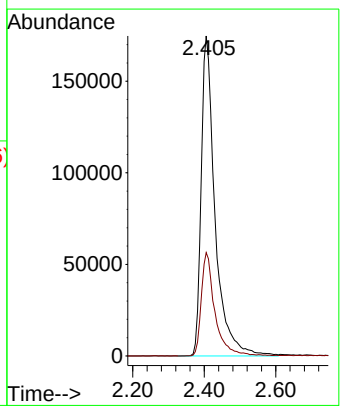
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

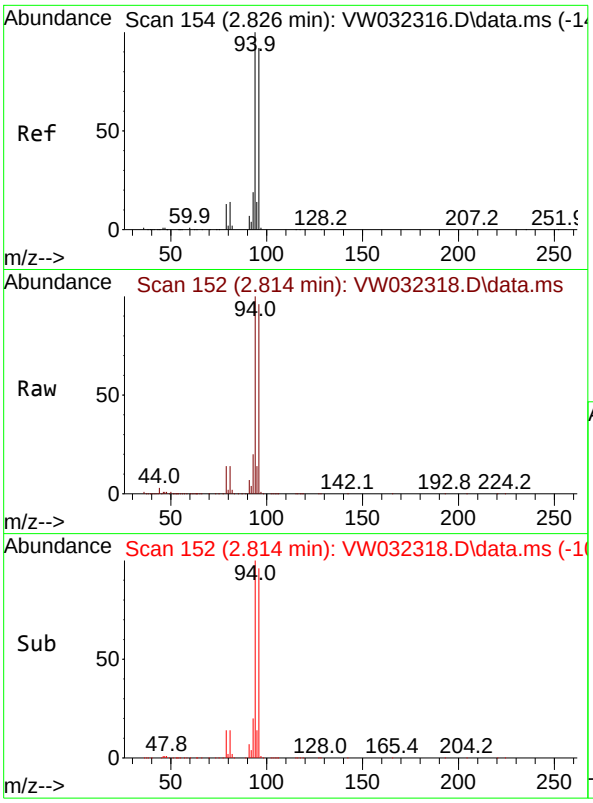


#4
Vinyl Chloride
Concen: 139.655 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 62 Resp: 470035

Ion	Ratio	Lower	Upper
62	100		
64	32.3	24.8	37.2





#5
Bromomethane
Concen: 136.281 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.012 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

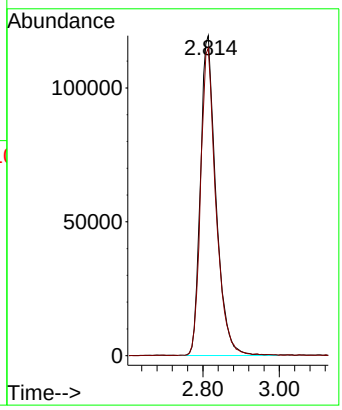
Tgt Ion: 94 Resp: 33707

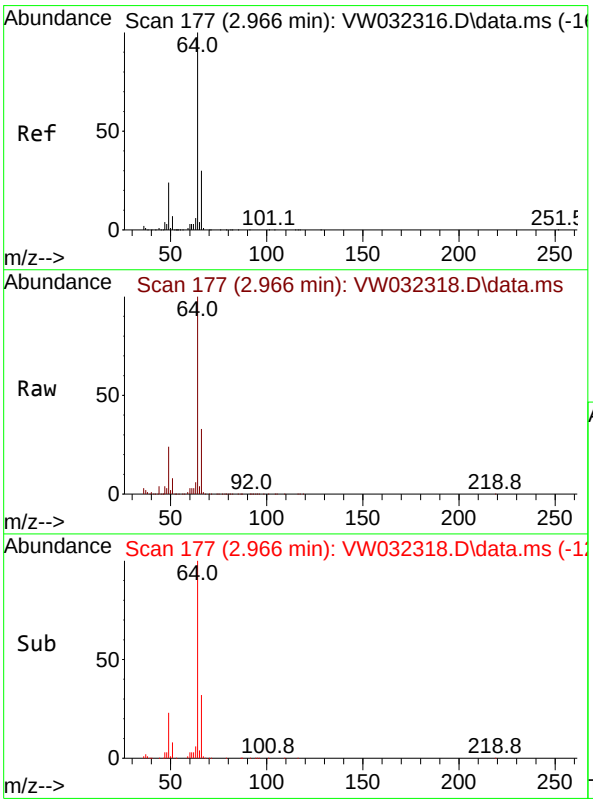
Ion	Ratio	Lower	Upper
94	100		
96	96.1	76.6	115.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

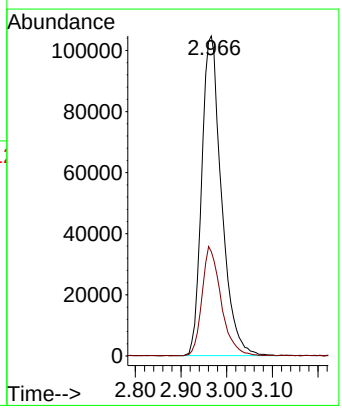


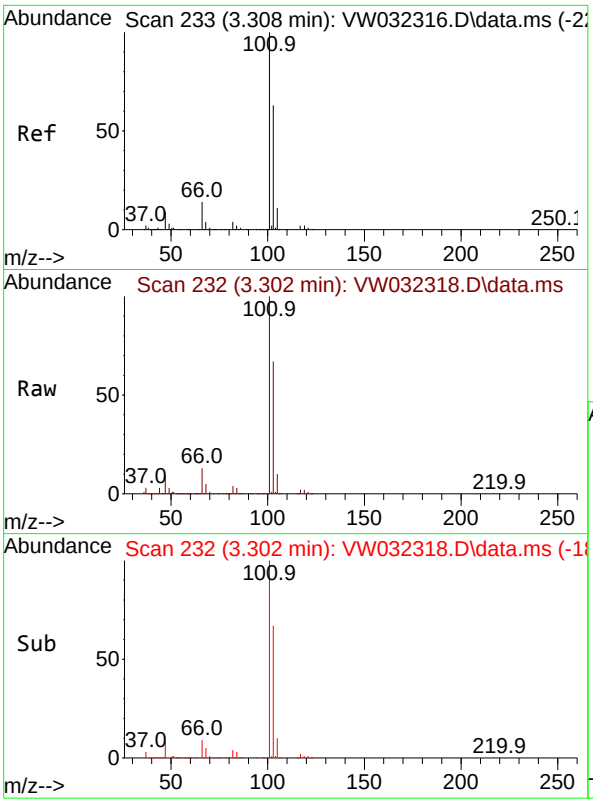


#6
Chloroethane
Concen: 141.765 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 64 Resp: 315013

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.2	39.4

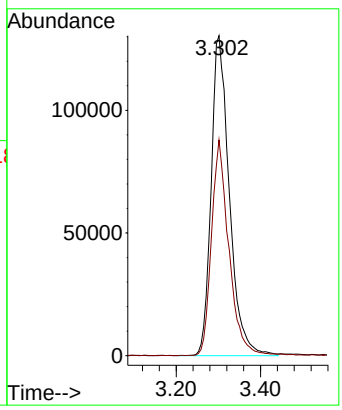




#7
Trichlorofluoromethane
Concen: 154.935 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:101 Resp: 39043

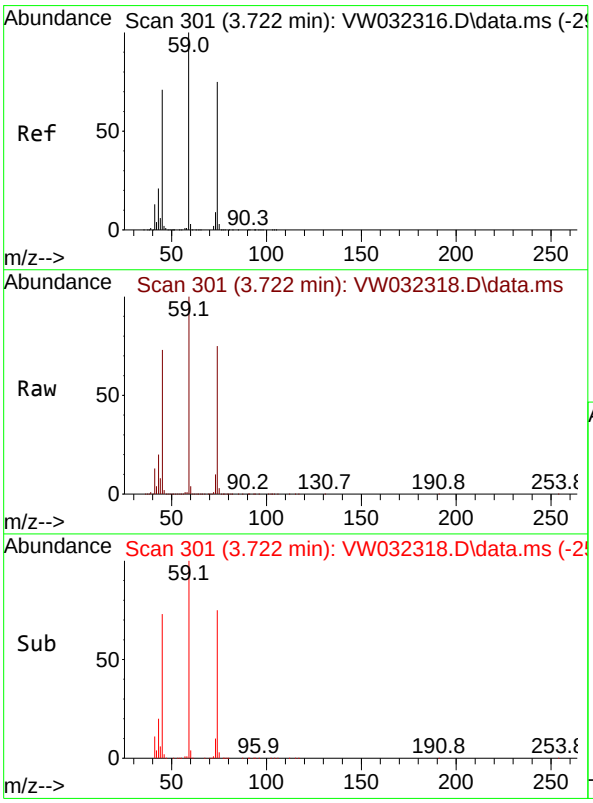
Ion	Ratio	Lower	Upper
101	100		
103	67.3	47.8	71.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

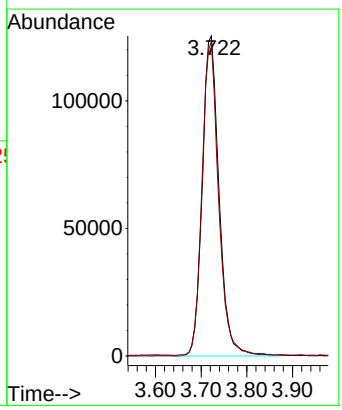
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

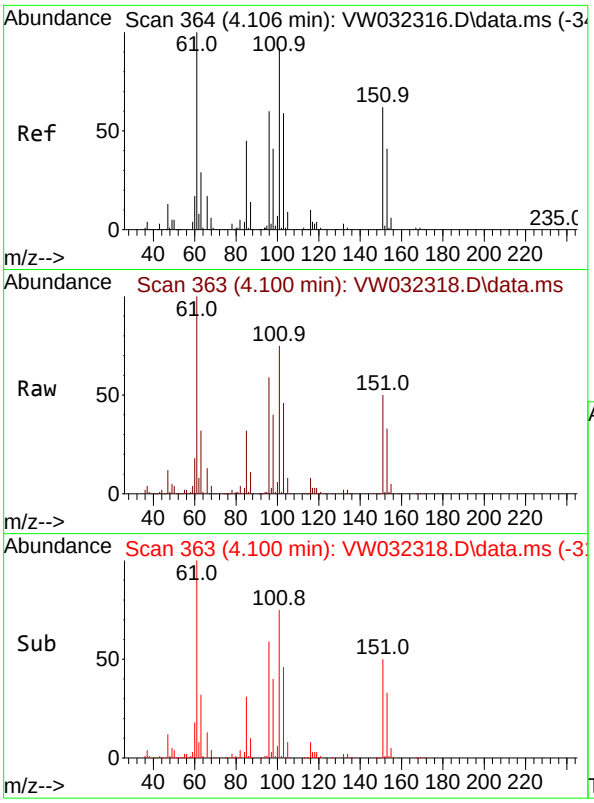


#8
Diethyl Ether
Concen: 146.096 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 74 Resp: 319023

Ion	Ratio	Lower	Upper
74	100		
45	96.9	43.1	129.4

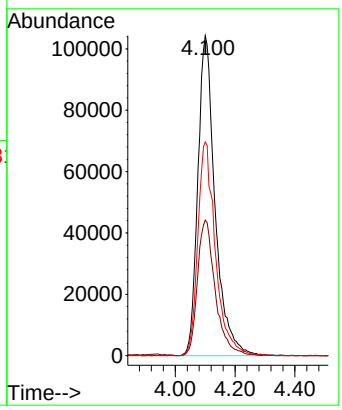




#9
1,1,2-Trichlorotrifluoroethane
Concen: 138.198 ug/l
RT: 4.100 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:101 Resp: 41771

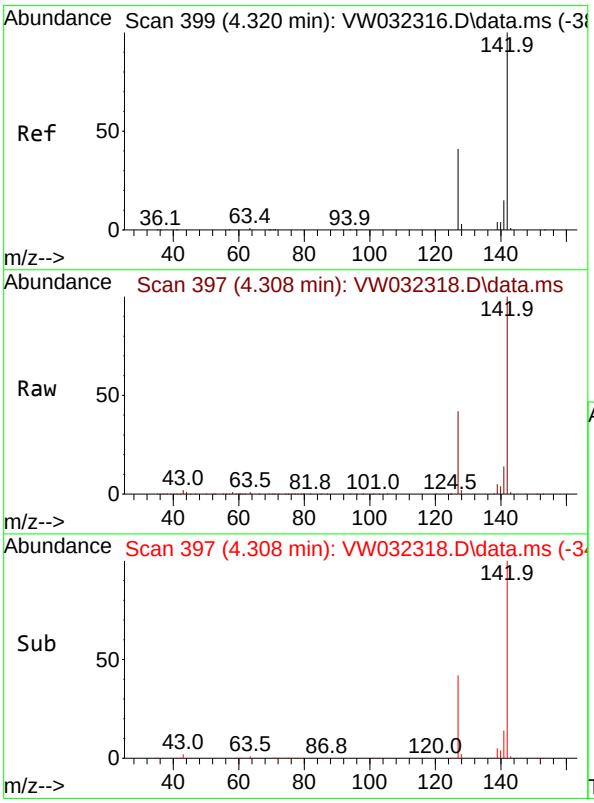
Ion	Ratio	Lower	Upper
101	100		
85	43.8	37.1	55.7
151	68.1	61.5	92.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

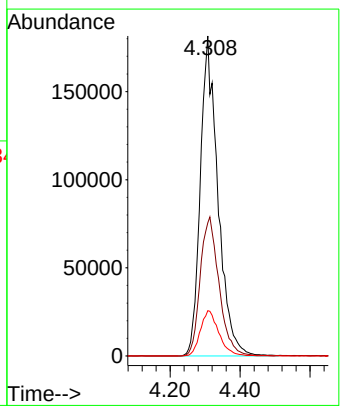
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

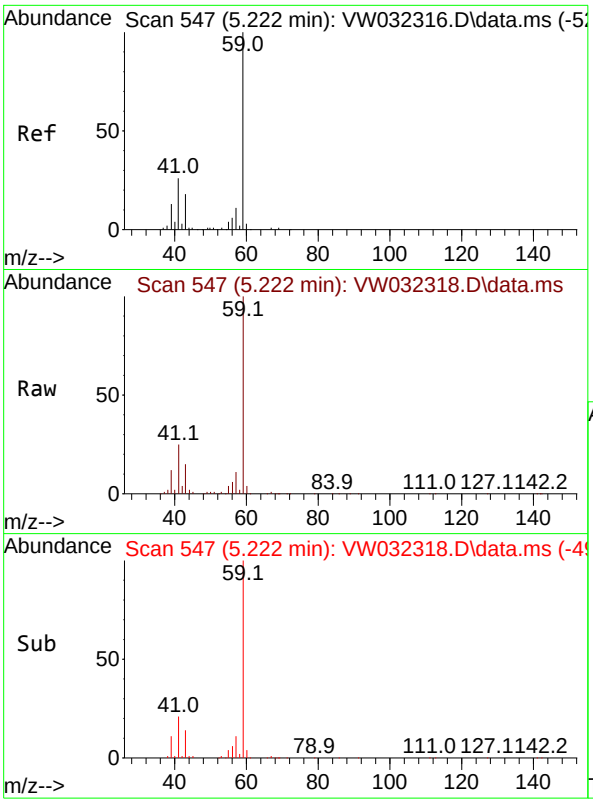


#10
Methyl Iodide
Concen: 147.136 ug/l
RT: 4.308 min Scan# 397
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:142 Resp: 634551

Ion	Ratio	Lower	Upper
142	100		
127	46.3	38.2	57.2
141	14.9	12.2	18.2

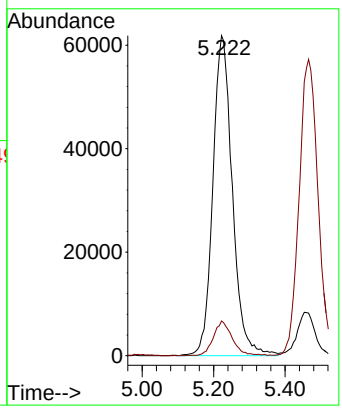




#11
Tert butyl alcohol
Concen: 728.258 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 59 Resp: 23409

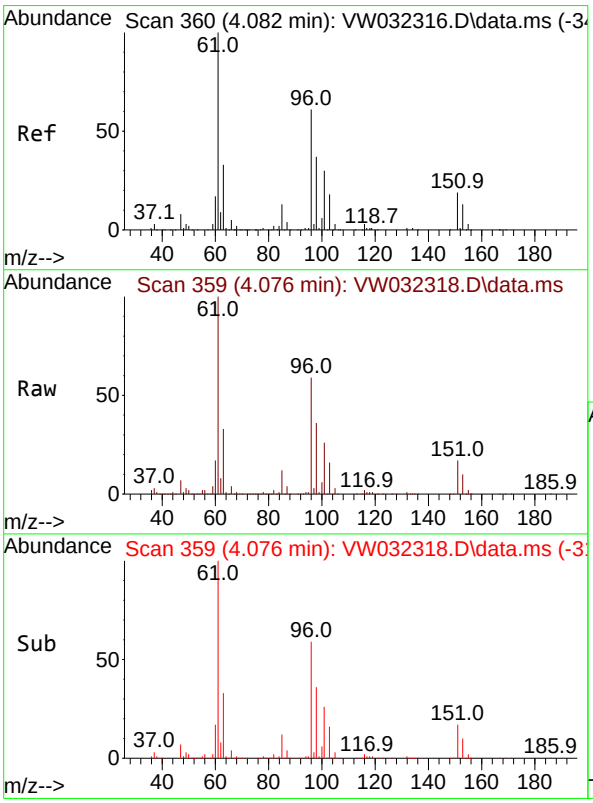
Ion	Ratio	Lower	Upper
59	100		
57	10.6	9.8	14.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

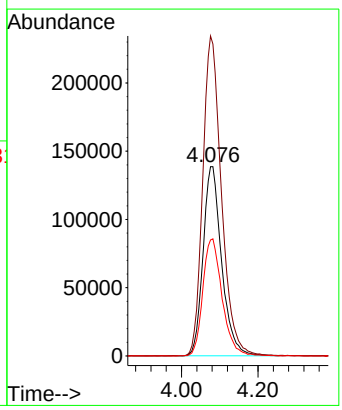
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

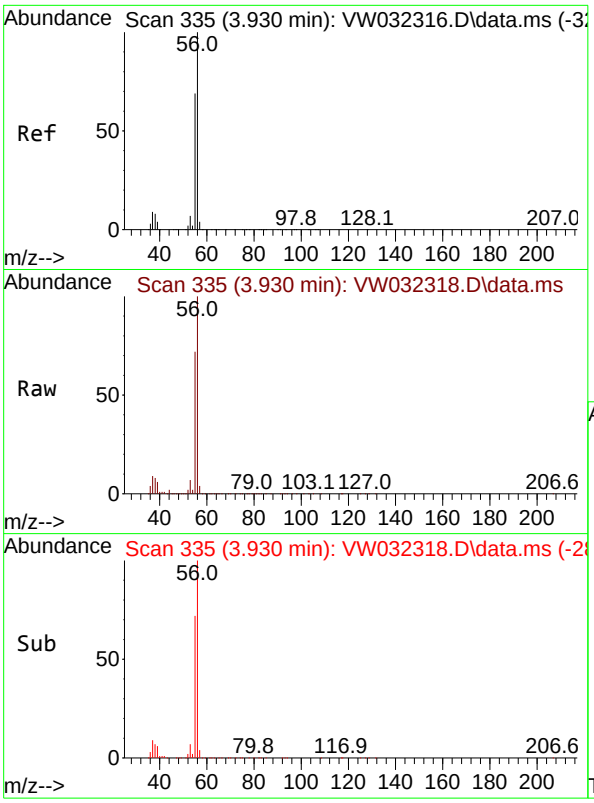


#12
1,1-Dichloroethene
Concen: 142.471 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 96 Resp: 467506

Ion	Ratio	Lower	Upper
96	100		
61	169.1	123.0	184.4
98	61.3	48.5	72.7





#13
Acrolein
Concen: 702.158 ug/l
RT: 3.930 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

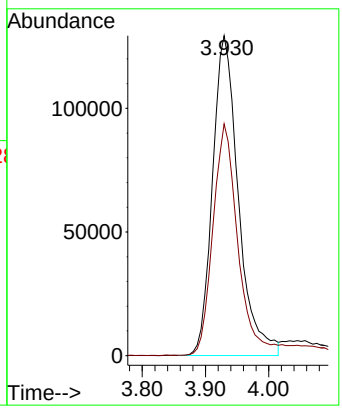
Tgt Ion: 56 Resp: 366309

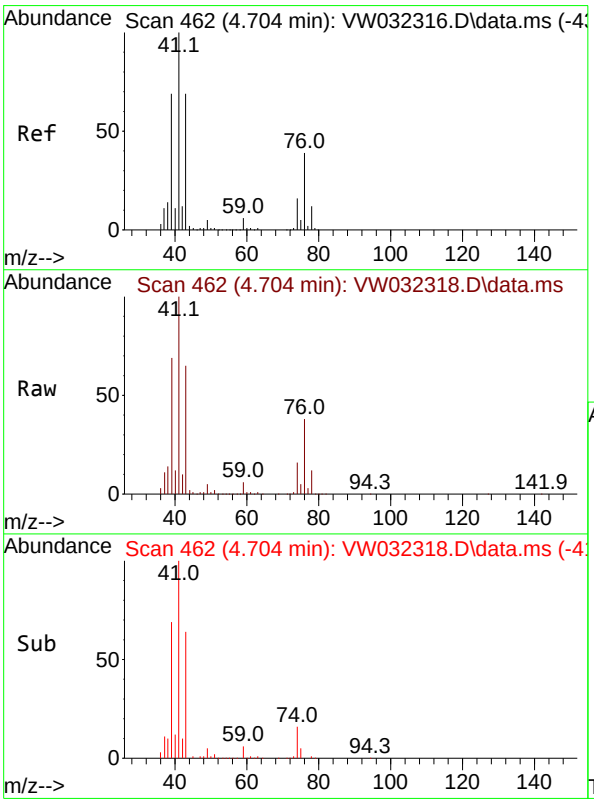
Ion	Ratio	Lower	Upper
56	100		
55	75.5	56.4	84.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

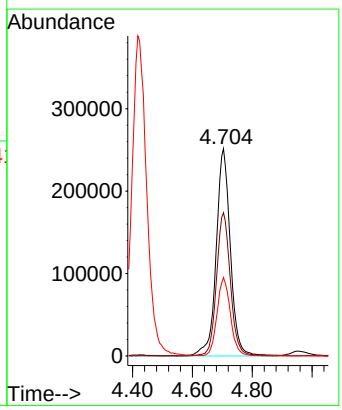


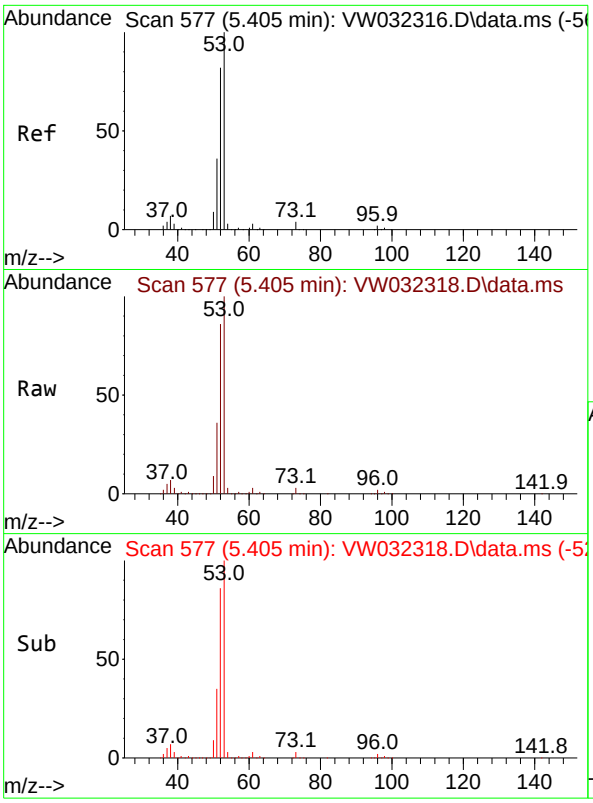


#14
Allyl chloride
Concen: 149.185 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 41 Resp: 826844

Ion	Ratio	Lower	Upper
41	100		
39	67.5	64.1	96.1
76	35.5	31.4	47.2





#15
Acrylonitrile
Concen: 768.664 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

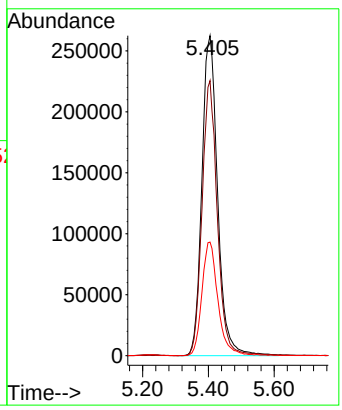
Tgt Ion: 53 Resp: 87321

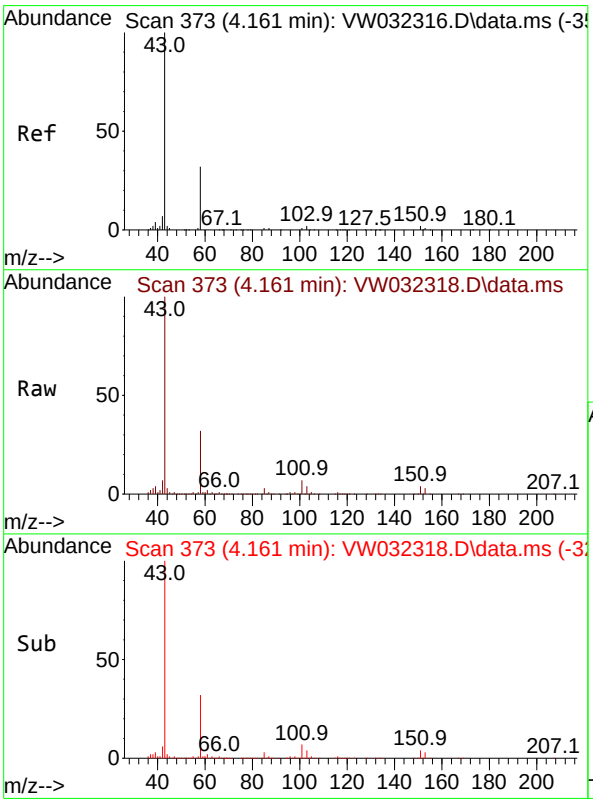
Ion	Ratio	Lower	Upper
53	100		
52	83.3	67.4	101.2
51	36.2	30.3	45.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

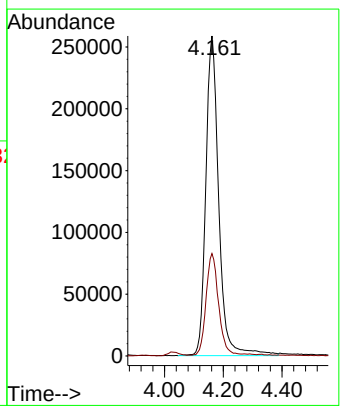


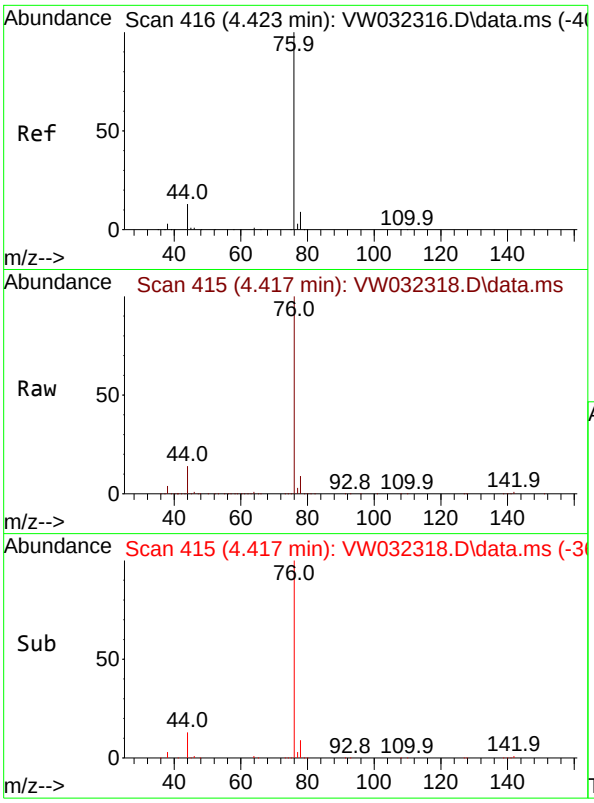


#16
Acetone
Concen: 672.241 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 43 Resp: 790475

Ion	Ratio	Lower	Upper
43	100		
58	31.8	25.3	37.9

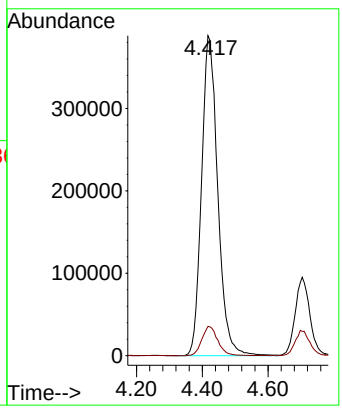




#17
Carbon Disulfide
Concen: 148.374 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 76 Resp: 132843

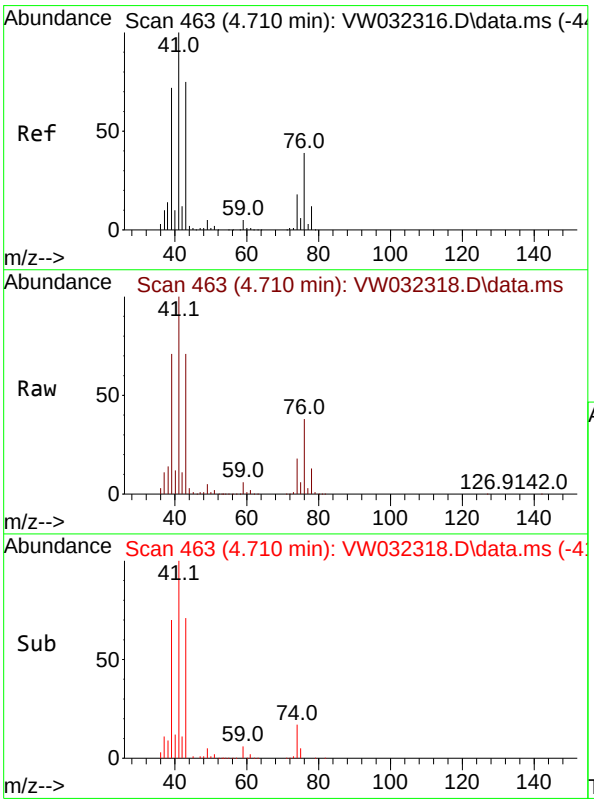
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

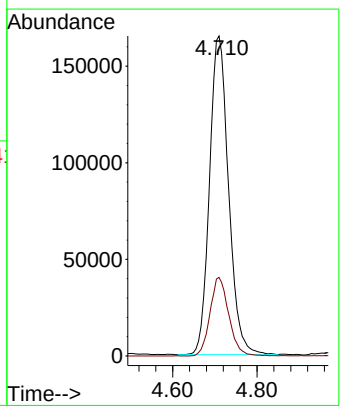
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

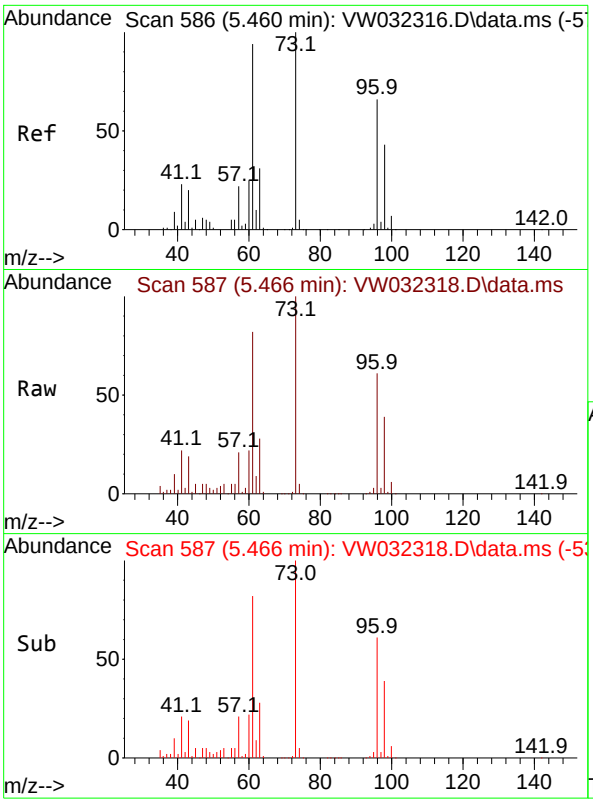


#18
Methyl Acetate
Concen: 153.605 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 43 Resp: 517404

Ion	Ratio	Lower	Upper
43	100		
74	24.3	20.2	30.4

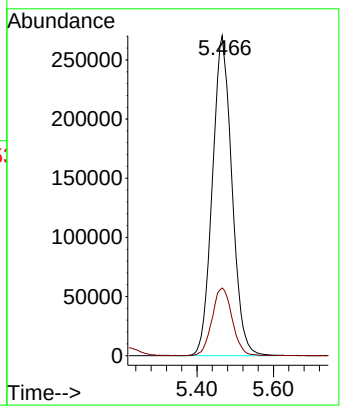




#19
Methyl tert-butyl Ether
Concen: 148.511 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 73 Resp: 95982

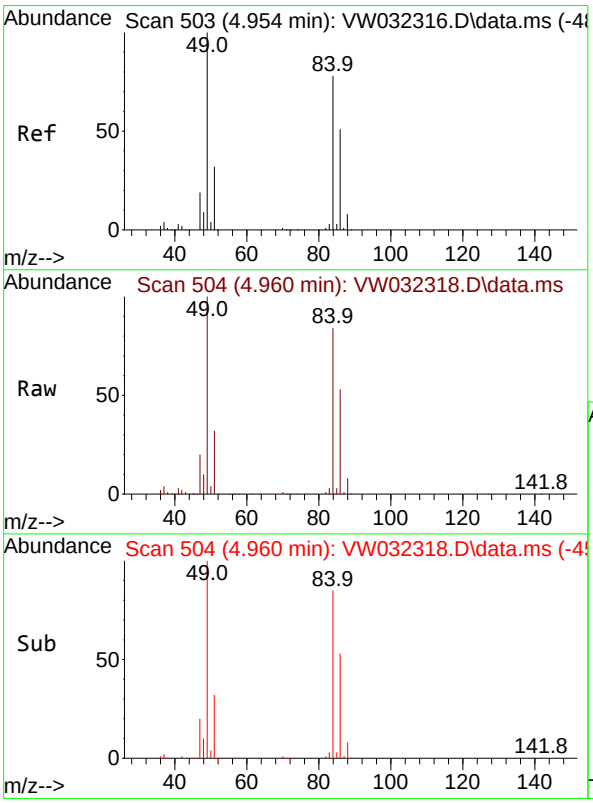
Ion	Ratio	Lower	Upper
73	100		
57	21.1	16.2	24.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

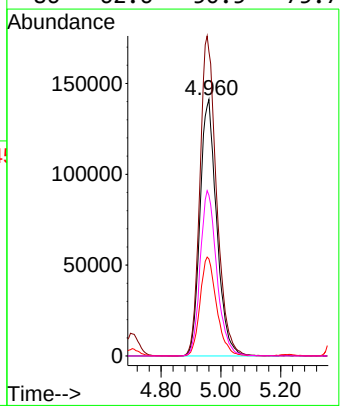
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

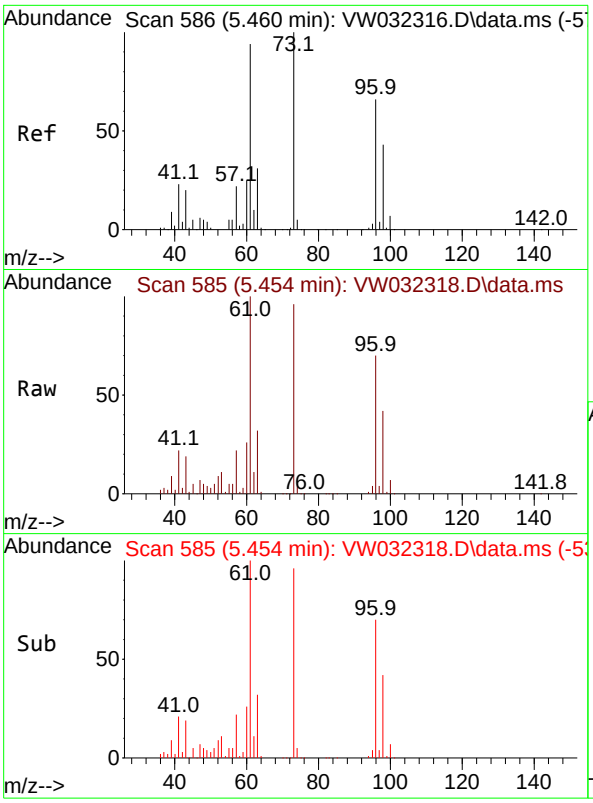


#20
Methylene Chloride
Concen: 151.150 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 84 Resp: 546261

Ion	Ratio	Lower	Upper
84	100		
49	118.7	92.2	138.4
51	37.8	31.0	46.6
86	62.6	50.5	75.7

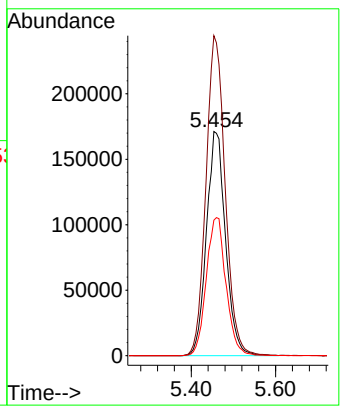




#21
trans-1,2-Dichloroethene
Concen: 148.302 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 96 Resp: 53877

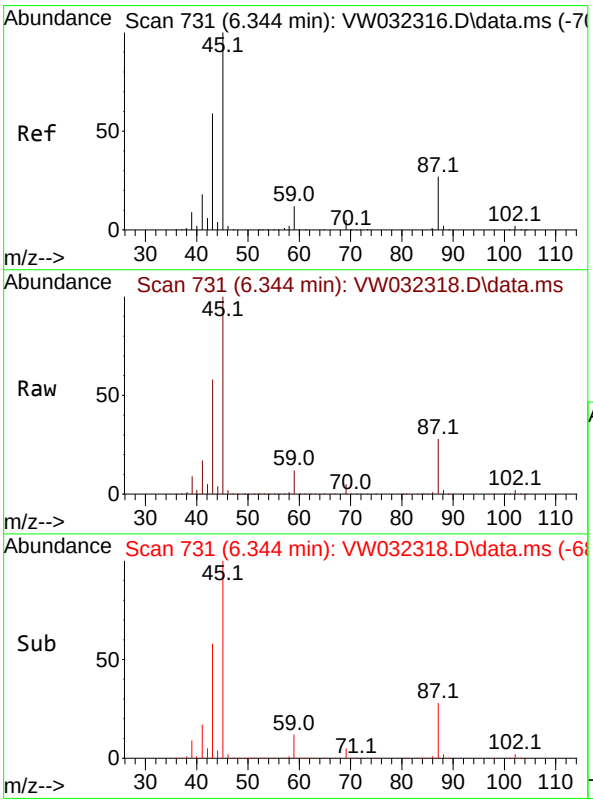
Ion	Ratio	Lower	Upper
96	100		
61	142.8	112.5	168.7
98	60.5	54.2	81.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

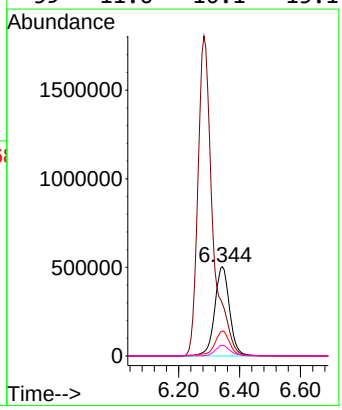
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

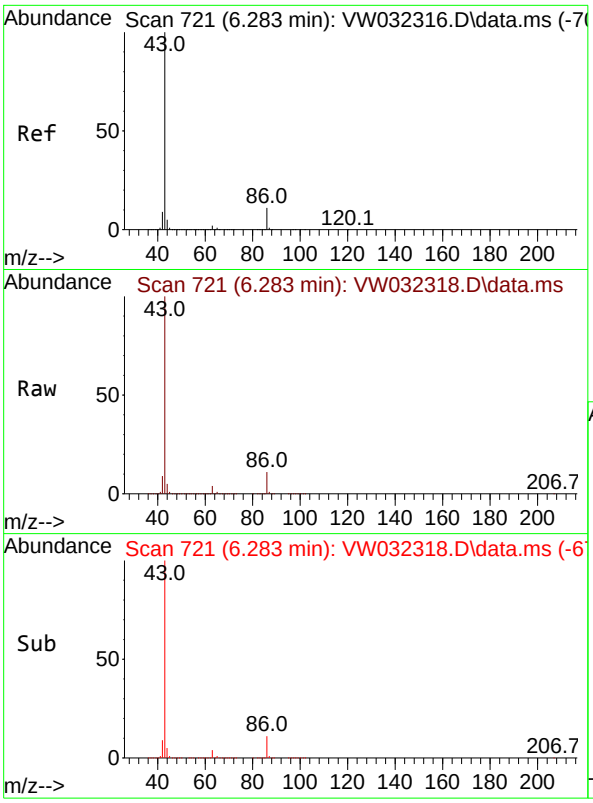


#22
Diisopropyl ether
Concen: 148.385 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 45 Resp: 1710365

Ion	Ratio	Lower	Upper
45	100		
43	58.1	51.4	77.2
87	28.1	25.9	38.9
59	11.6	10.1	15.1

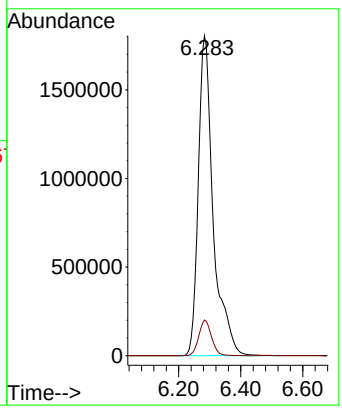




#23
Vinyl Acetate
Concen: 782.812 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 43 Resp: 602685

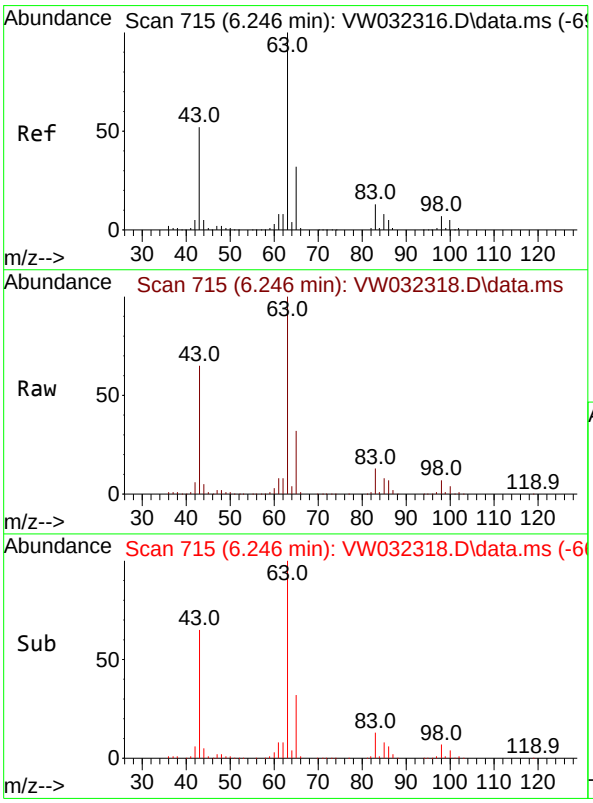
Ion	Ratio	Lower	Upper
43	100		
86	11.1	8.8	13.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

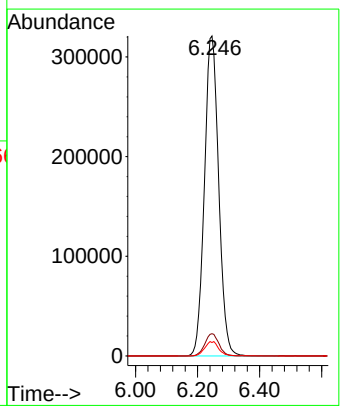
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

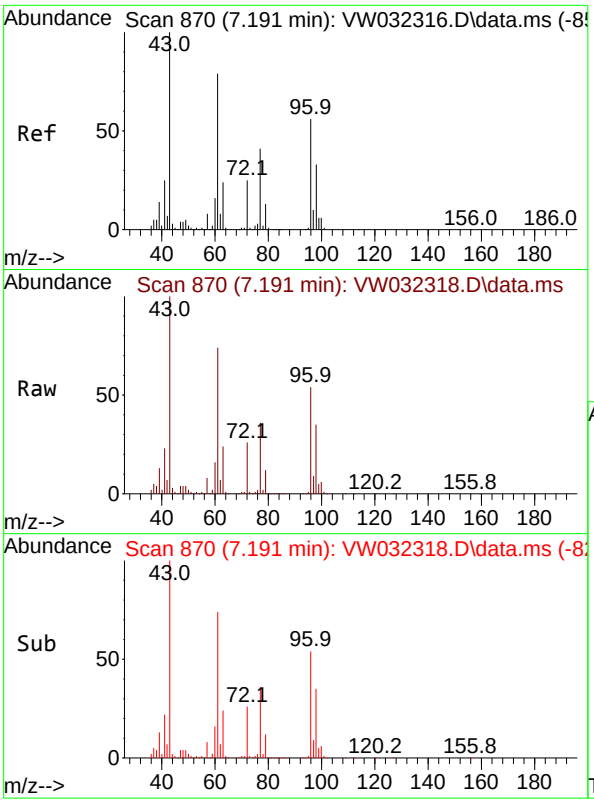


#24
1,1-Dichloroethane
Concen: 146.150 ug/l
RT: 6.246 min Scan# 715
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 63 Resp: 1023465

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.8	11.2
100	4.2	2.5	7.5

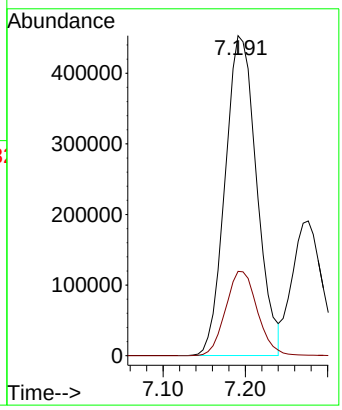




#25
2-Butanone
Concen: 755.574 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 43 Resp: 121004

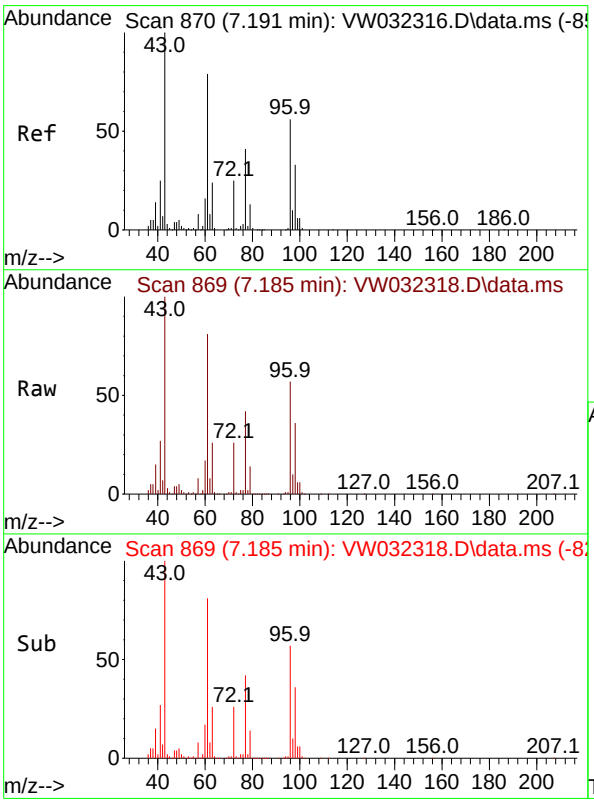
Ion	Ratio	Lower	Upper
43	100		
72	26.3	21.4	32.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

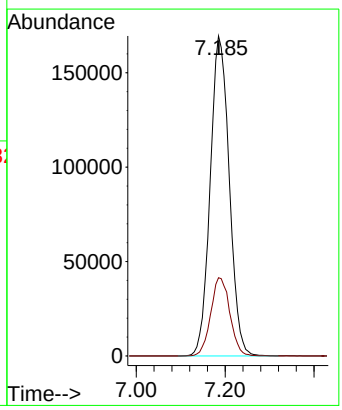
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

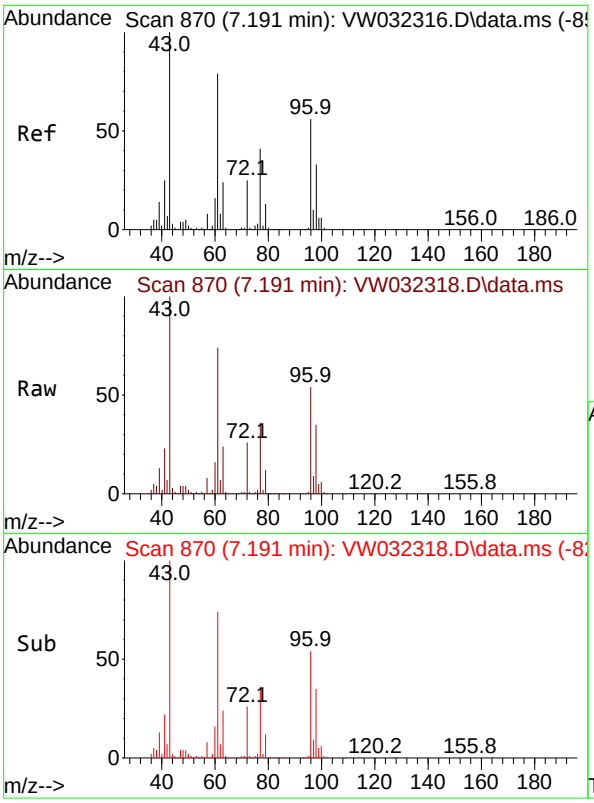


#26
2,2-Dichloropropane
Concen: 140.732 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 77 Resp: 504110

Ion	Ratio	Lower	Upper
77	100		
97	24.5	11.9	35.5

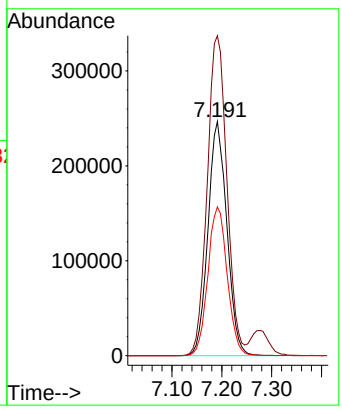




#27
cis-1,2-Dichloroethene
Concen: 148.941 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 96 Resp: 65004

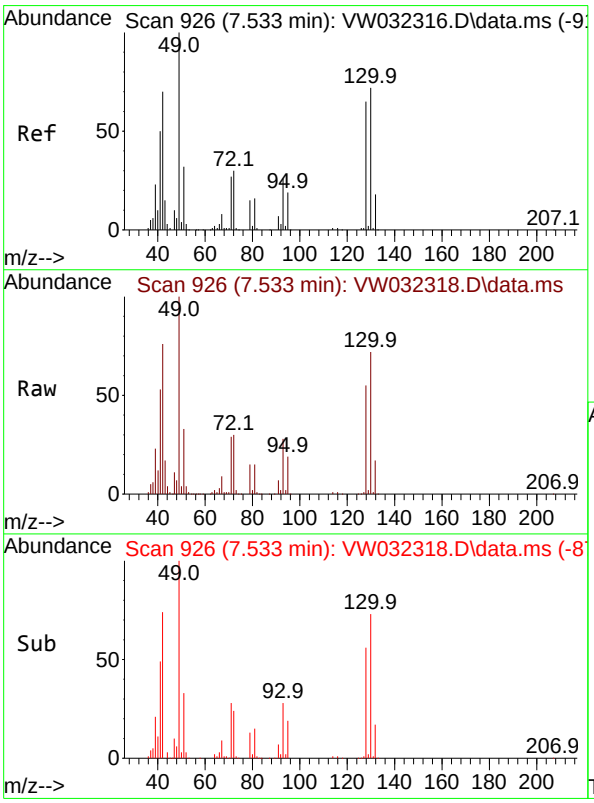
Ion	Ratio	Lower	Upper
96	100		
61	142.1	0.0	268.0
98	65.1	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

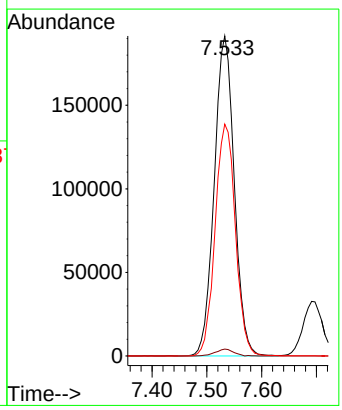
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

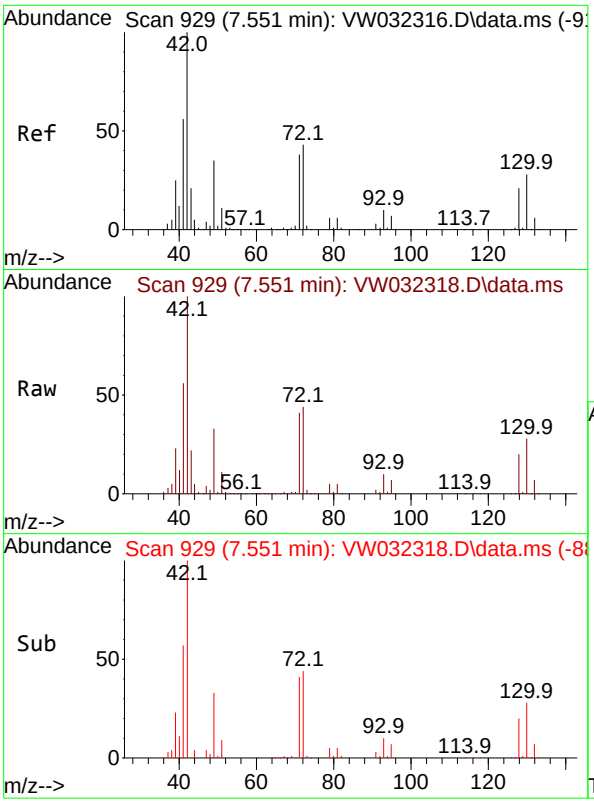


#28
Bromochloromethane
Concen: 147.682 ug/l
RT: 7.533 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 49 Resp: 486570

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	73.5	67.5	101.3

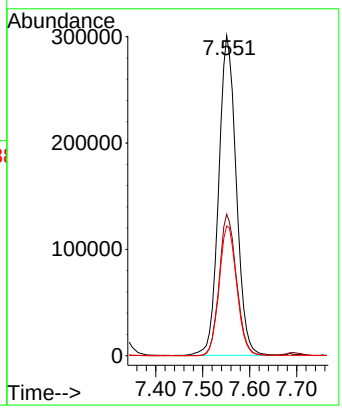




#29
Tetrahydrofuran
Concen: 776.649 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 42 Resp: 78218

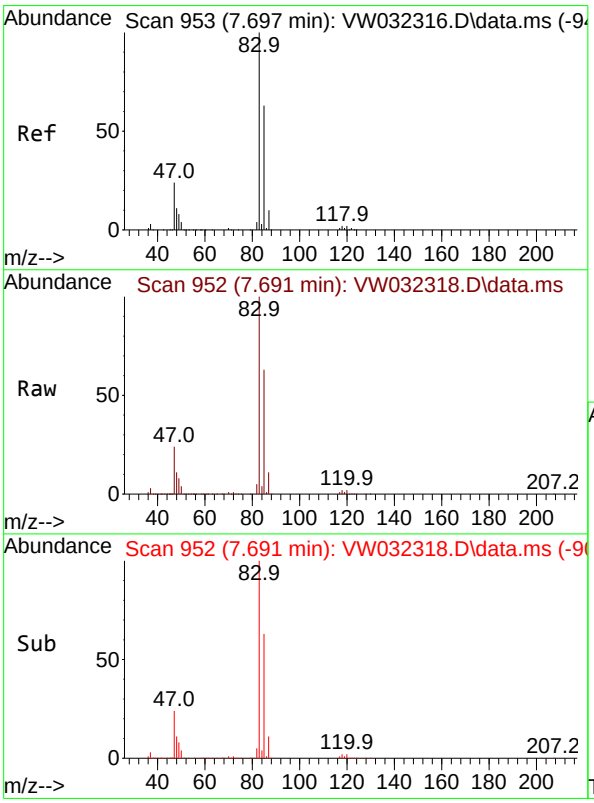
Ion	Ratio	Lower	Upper
42	100		
72	43.6	37.4	56.2
71	40.8	36.0	54.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

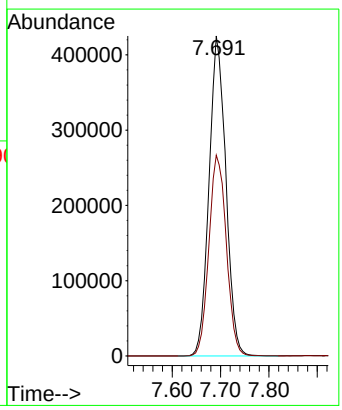
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

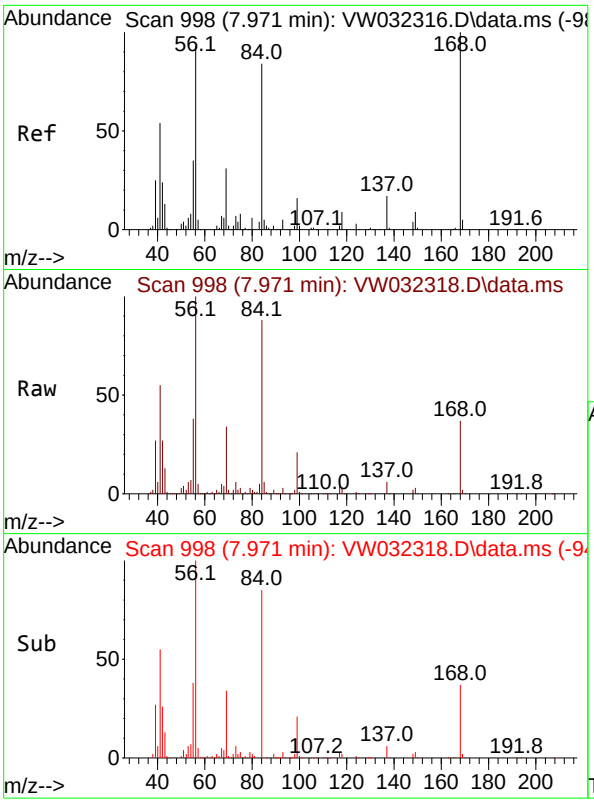


#30
Chloroform
Concen: 144.857 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 83 Resp: 1028785

Ion	Ratio	Lower	Upper
83	100		
85	62.7	51.2	76.8

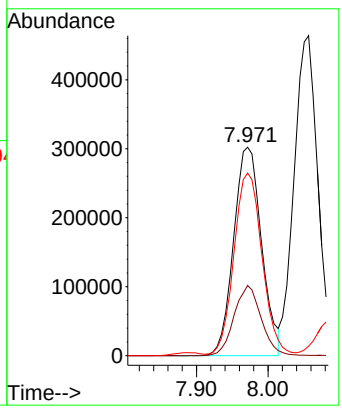




#31
Cyclohexane
Concen: 137.222 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 56 Resp: 82037

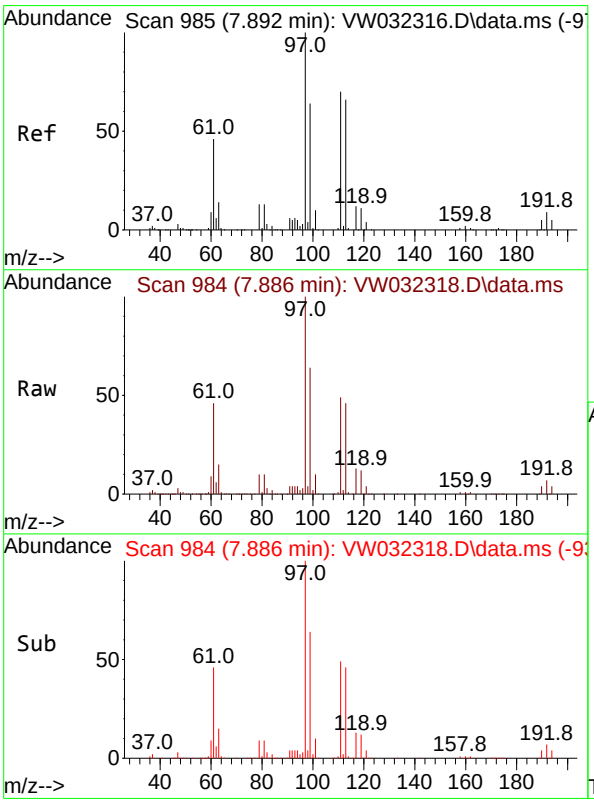
Ion	Ratio	Lower	Upper
56	100		
69	33.7	27.7	41.5
84	86.5	74.6	112.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

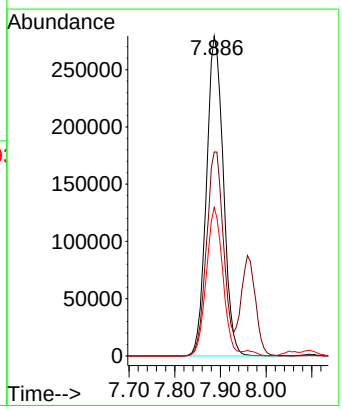
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

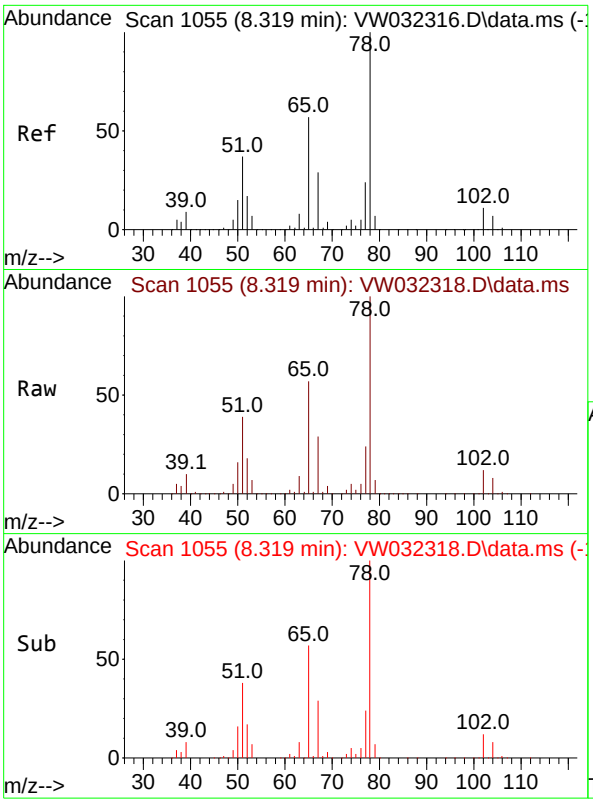


#32
1,1,1-Trichloroethane
Concen: 142.581 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 97 Resp: 717558

Ion	Ratio	Lower	Upper
97	100		
99	64.8	50.9	76.3
61	45.7	36.2	54.4

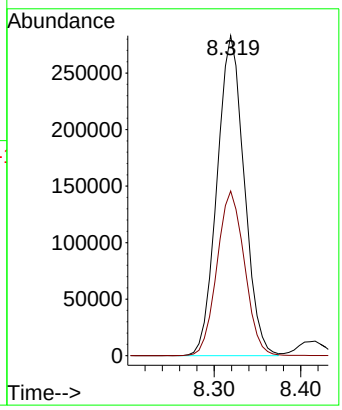




#33
1,2-Dichloroethane-d4
Concen: 145.223 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 65 Resp: 61671

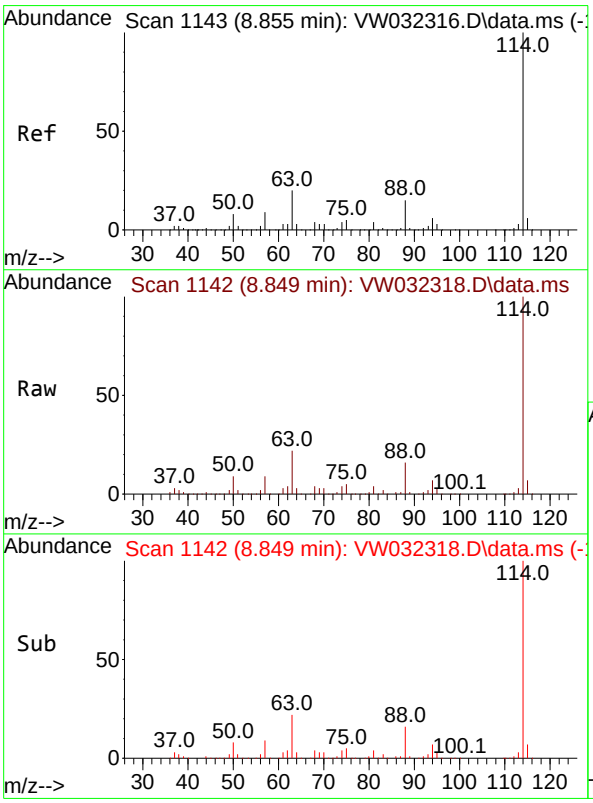
Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	99.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

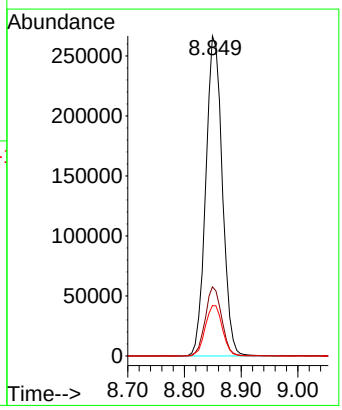
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

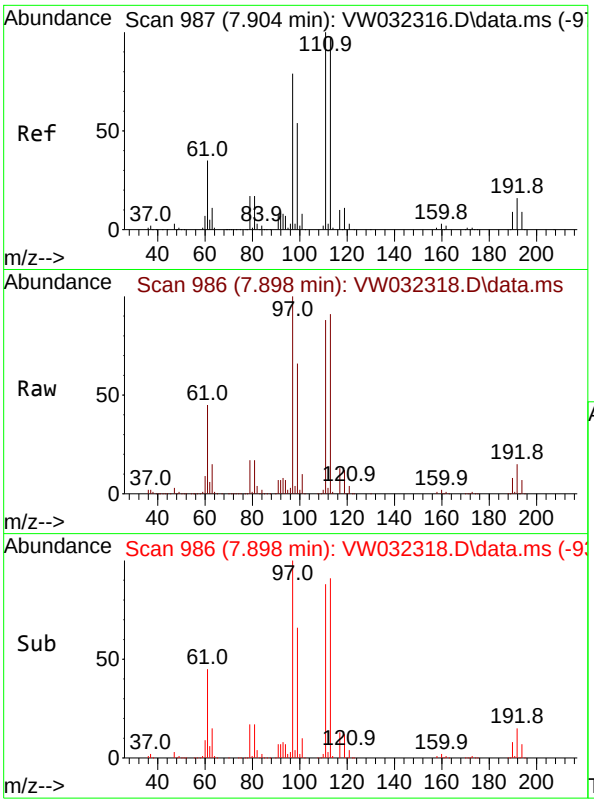


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:114 Resp: 539030

Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	40.4
88	15.7	0.0	32.0





#35
Dibromofluoromethane
Concen: 144.249 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

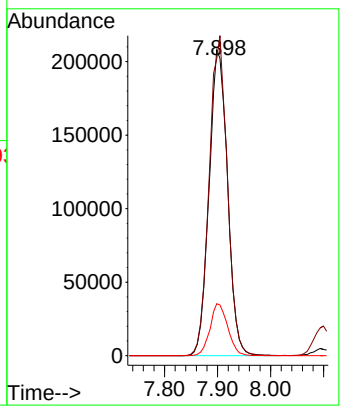
Tgt Ion:113 Resp: 50354

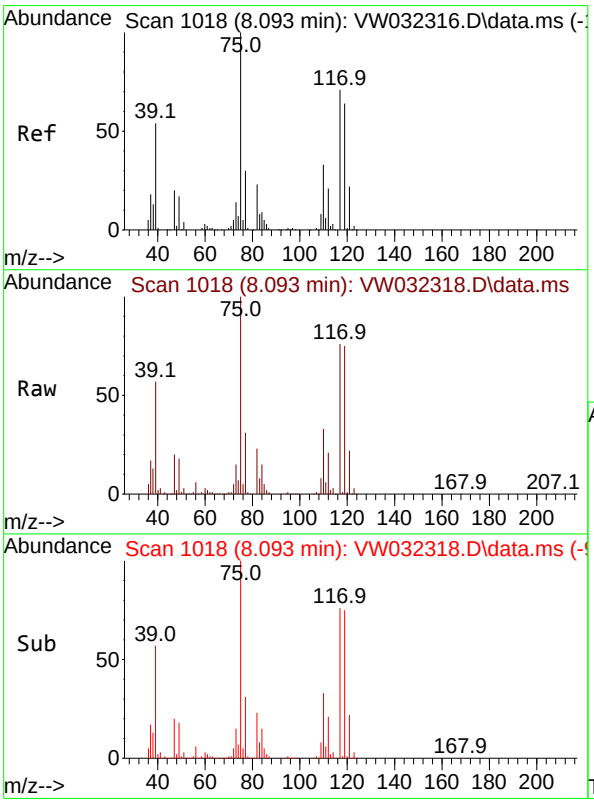
Ion	Ratio	Lower	Upper
113	100		
111	102.9	83.9	125.9
192	16.3	14.6	21.8

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

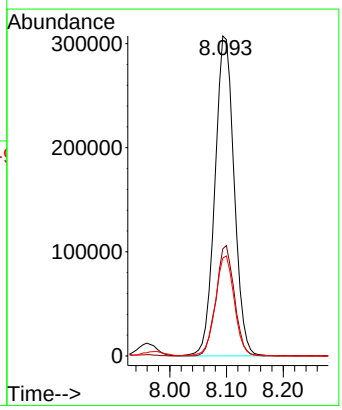


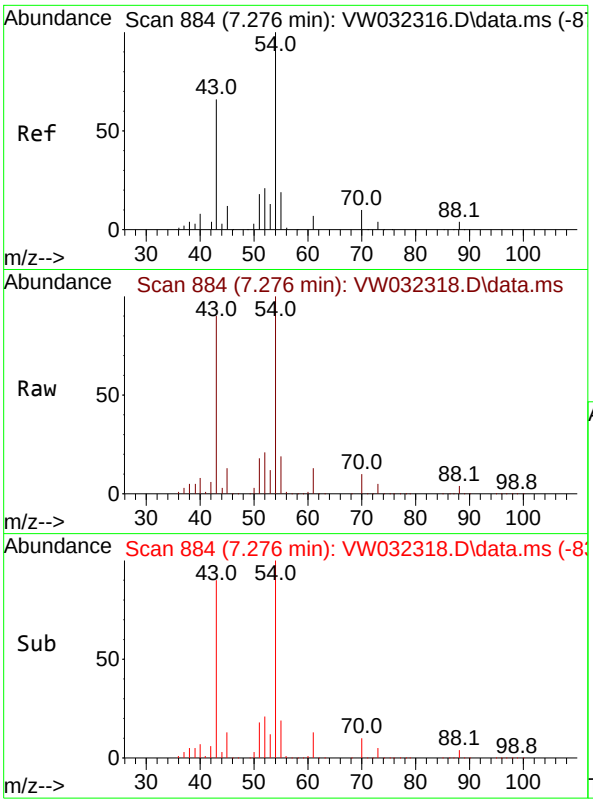


#36
1,1-Dichloropropene
Concen: 146.511 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 75 Resp: 721795

Ion	Ratio	Lower	Upper
75	100		
110	33.1	17.5	52.5
77	31.0	24.1	36.1

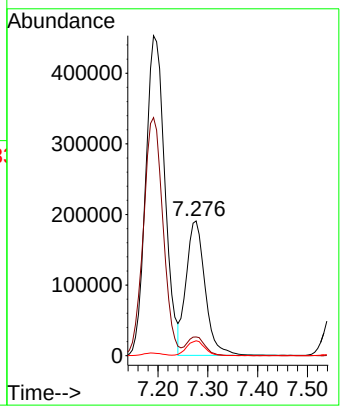




#37
Ethyl Acetate
Concen: 152.893 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 43 Resp: 50136

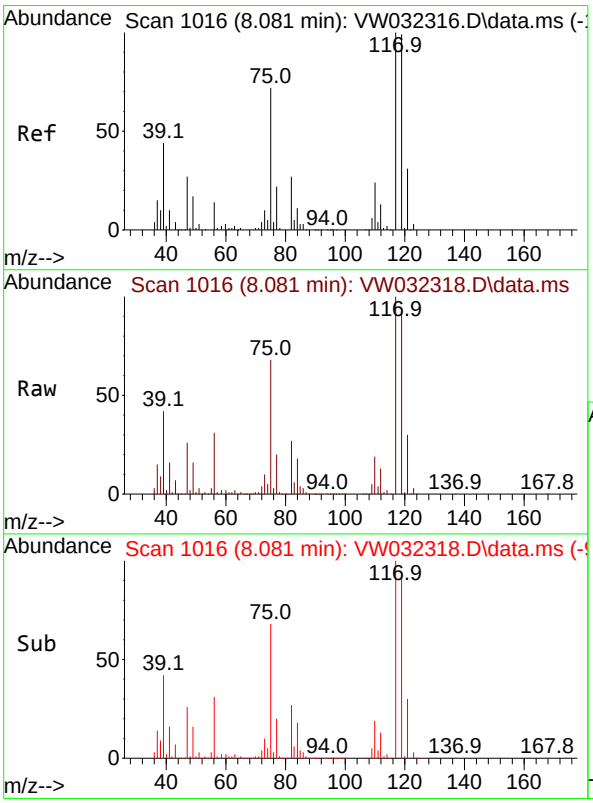
Ion	Ratio	Lower	Upper
43	100		
61	13.6	11.3	16.9
70	10.6	8.9	13.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

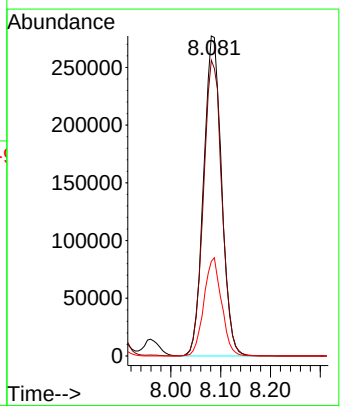
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

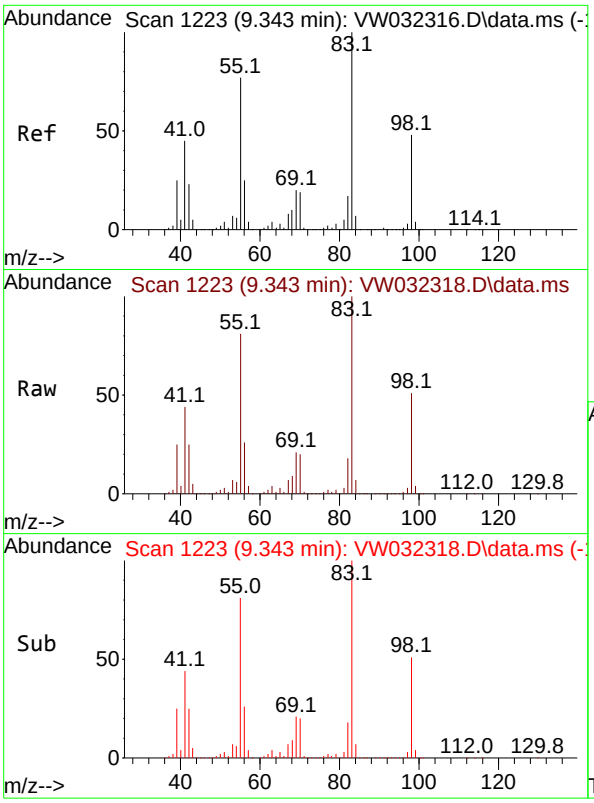


#38
Carbon Tetrachloride
Concen: 149.786 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:117 Resp: 694408

Ion	Ratio	Lower	Upper
117	100		
119	92.4	74.2	111.2
121	29.6	25.6	38.4





#39
Methylcyclohexane
Concen: 152.772 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

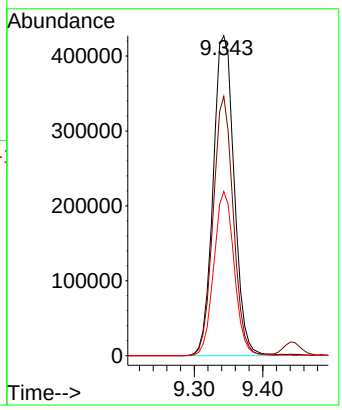
Tgt Ion: 83 Resp: 90785

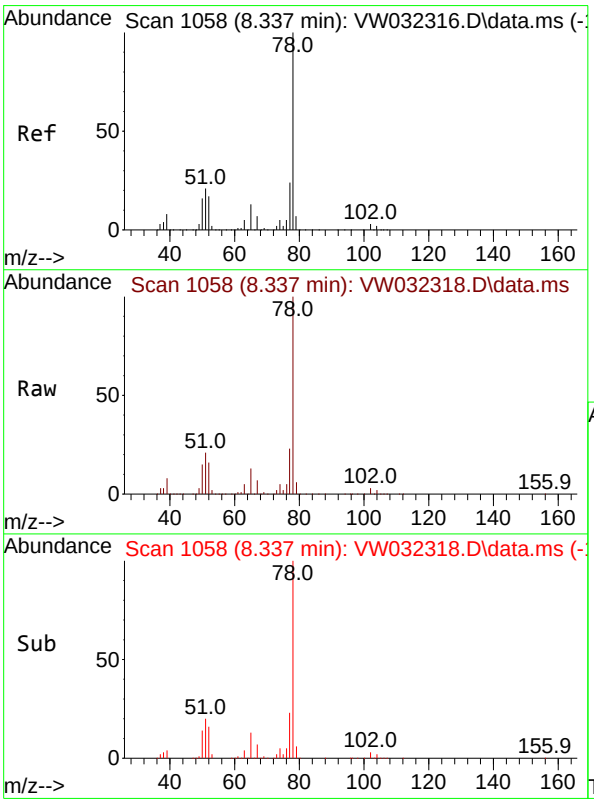
Ion	Ratio	Lower	Upper
83	100		
55	81.0	58.4	87.6
98	51.3	39.4	59.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

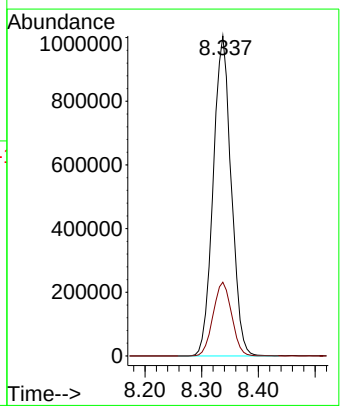


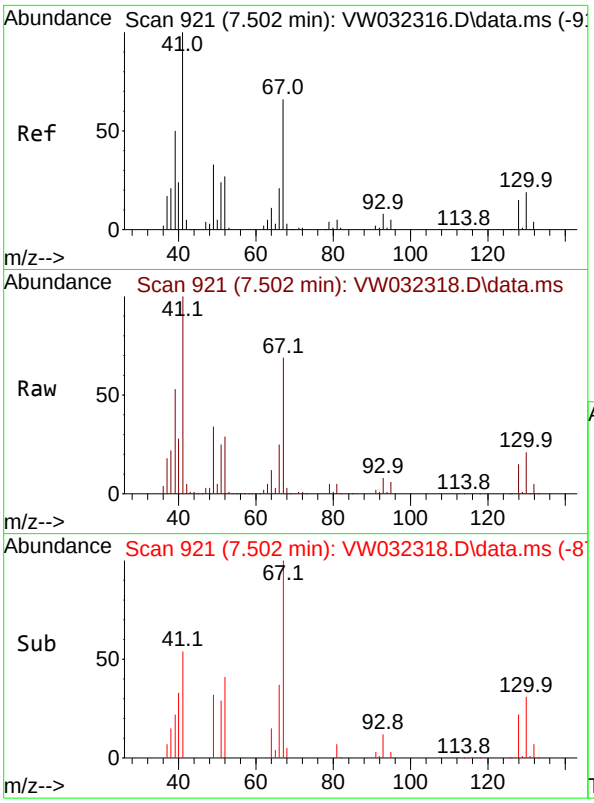


#40
Benzene
Concen: 143.766 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 78 Resp: 2220041

Ion	Ratio	Lower	Upper
78	100		
77	23.1	20.7	31.1

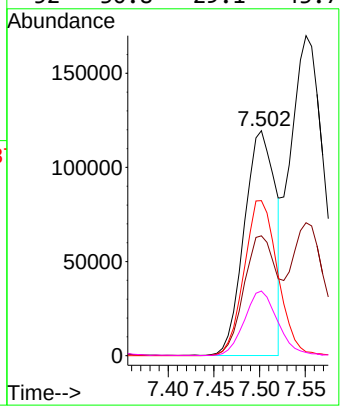




#41
Methacrylonitrile
Concen: 160.121 ug/l
RT: 7.502 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 41 Resp: 28296

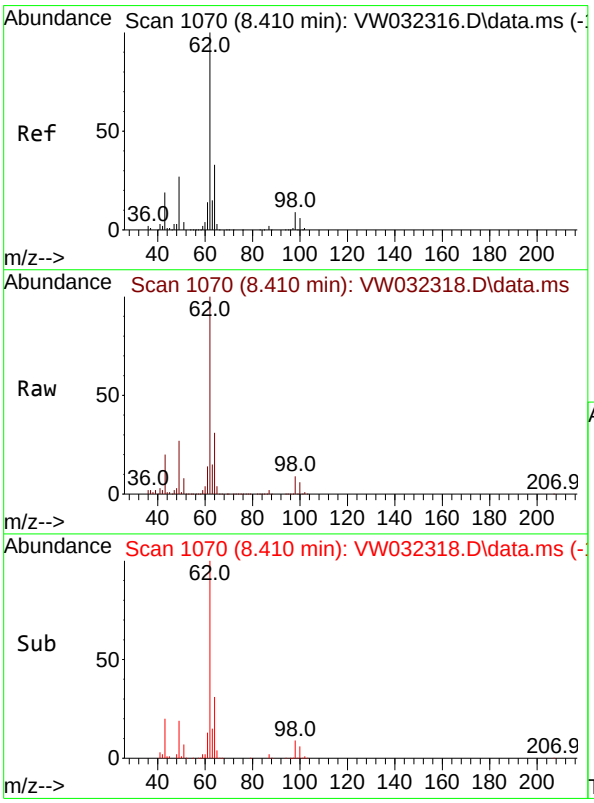
Ion	Ratio	Lower	Upper
41	100		
39	58.5	50.9	76.3
67	74.8	65.6	98.4
52	30.8	29.1	43.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

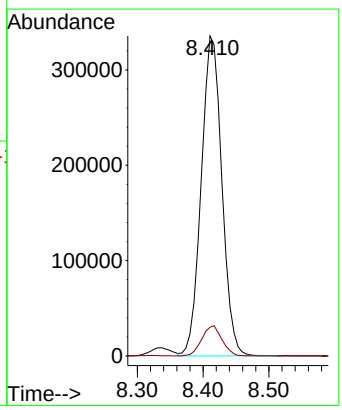
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

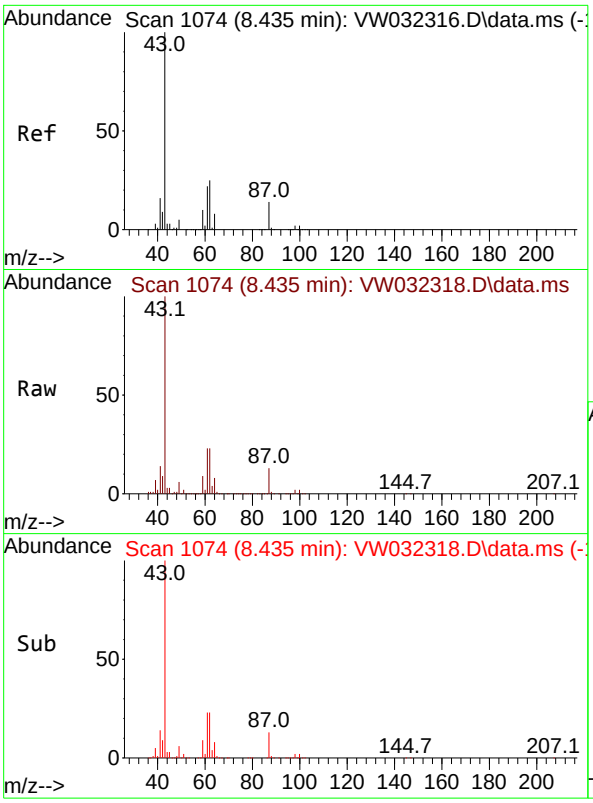


#42
1,2-Dichloroethane
Concen: 144.899 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 62 Resp: 732140

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.0





#43
Isopropyl Acetate
Concen: 159.826 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

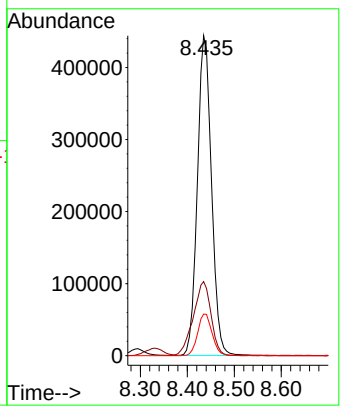
Tgt Ion: 43 Resp: 92973

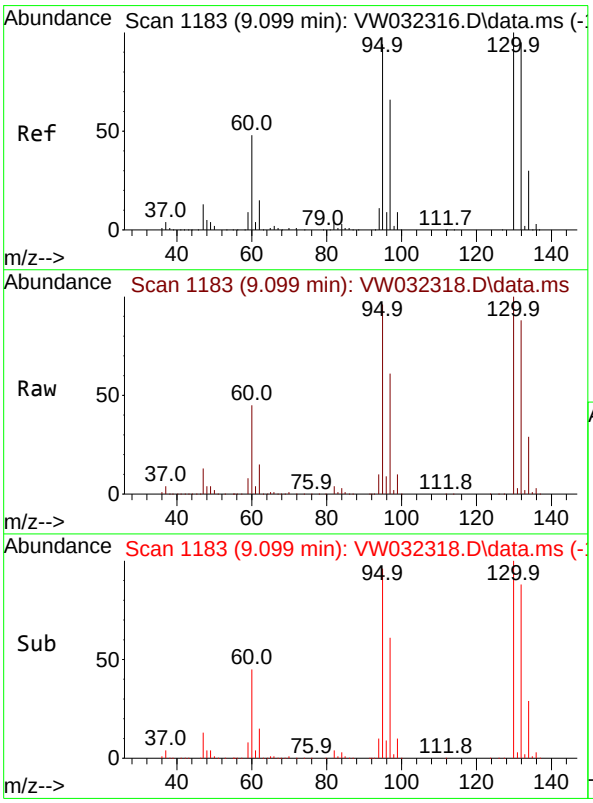
Ion	Ratio	Lower	Upper
43	100		
61	29.0	23.3	34.9
87	13.3	11.1	16.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

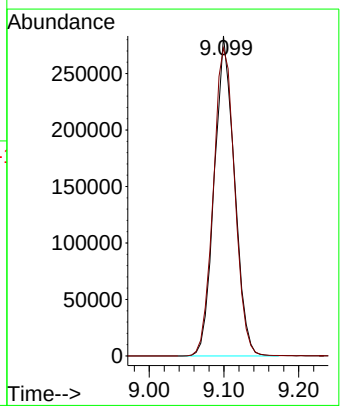


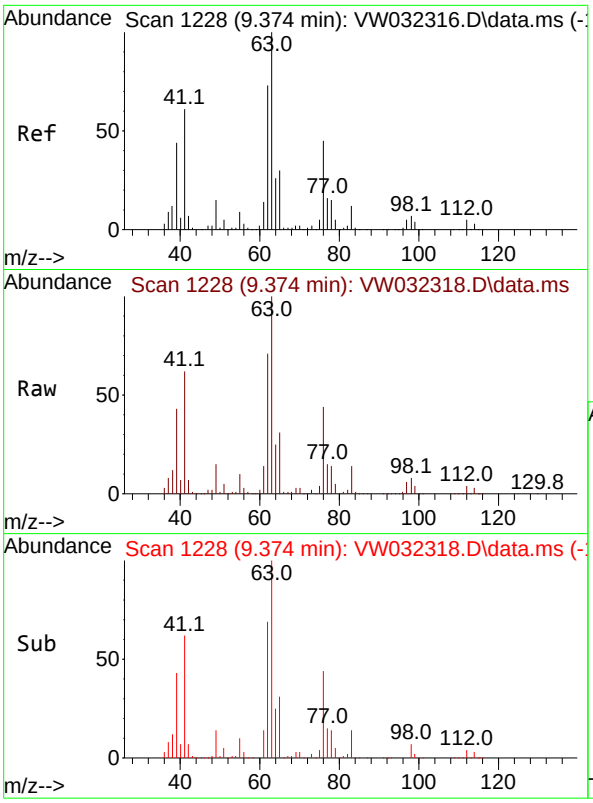


#44
Trichloroethene
Concen: 147.127 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:130 Resp: 531979

Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	220.0

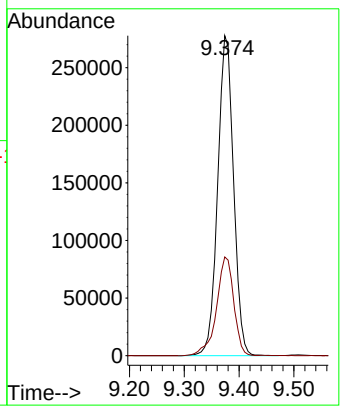




#45
1,2-Dichloropropane
Concen: 145.193 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 63 Resp: 55963

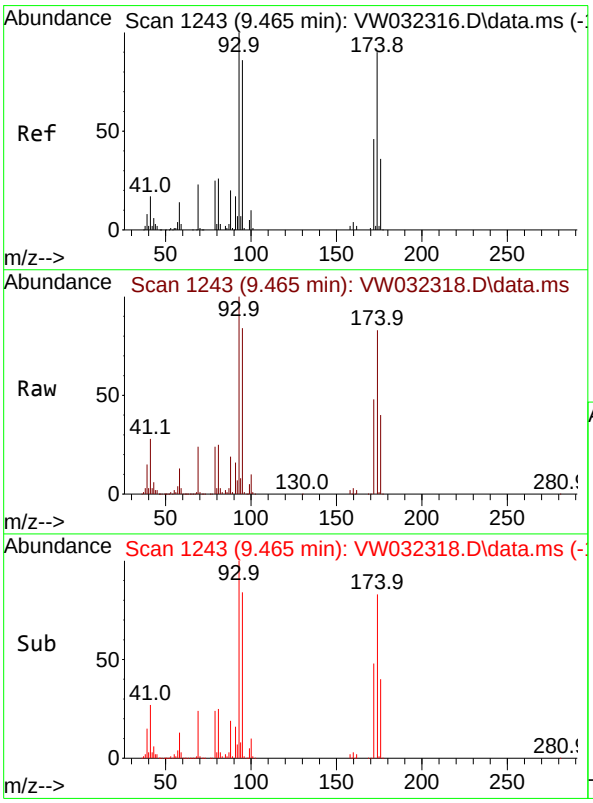
Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.3	36.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

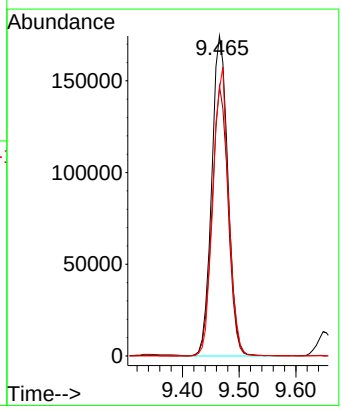
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

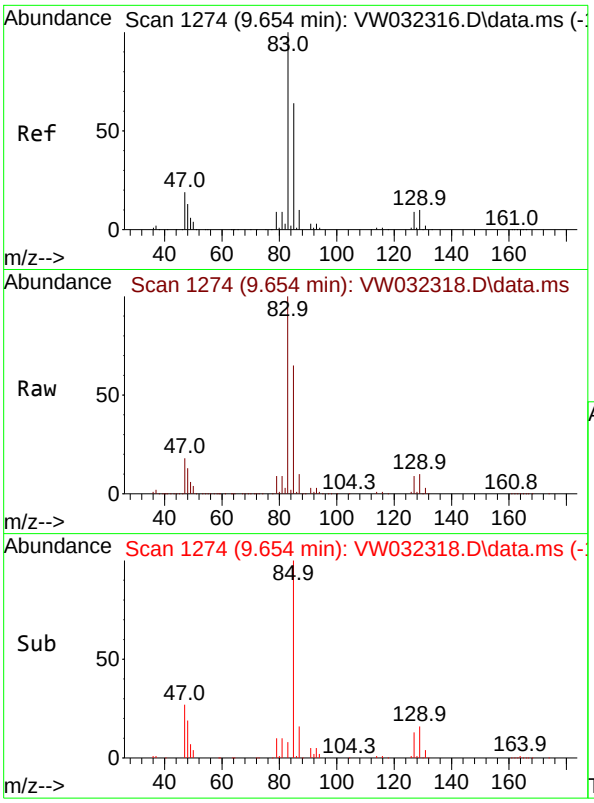


#46
Dibromomethane
Concen: 146.565 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 93 Resp: 347379

Ion	Ratio	Lower	Upper
93	100		
95	83.2	67.4	101.2
174	86.8	75.7	113.5

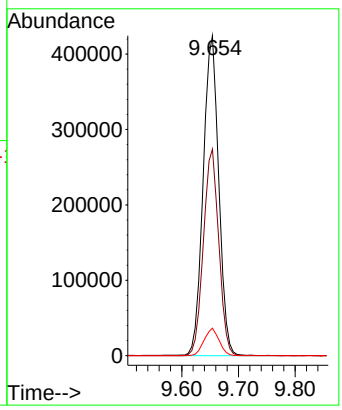




#47
Bromodichloromethane
Concen: 149.030 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 83 Resp: 80790

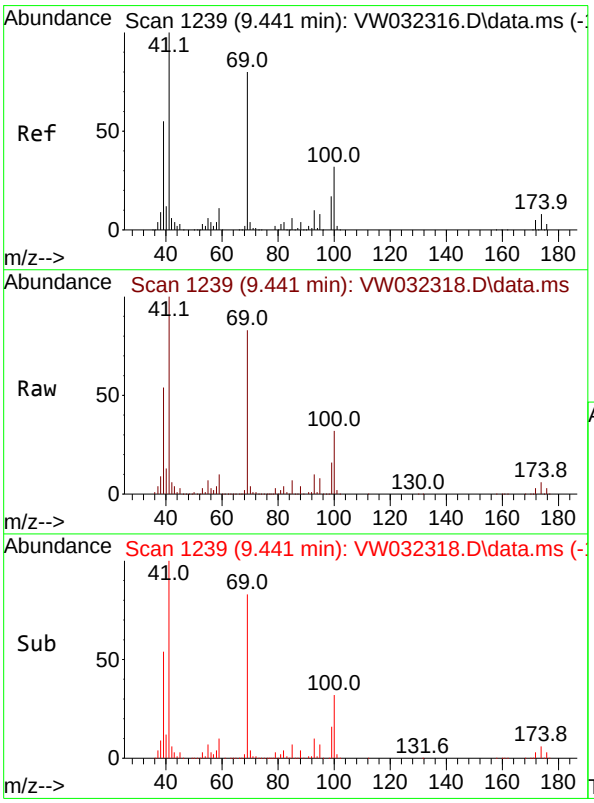
Ion	Ratio	Lower	Upper
83	100		
85	64.6	48.7	73.1
127	8.6	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

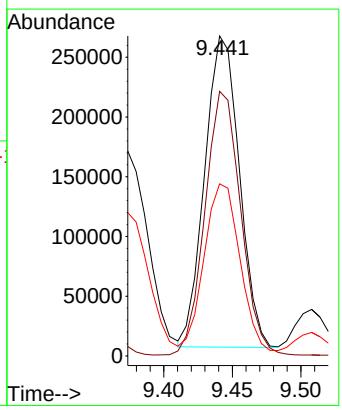
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

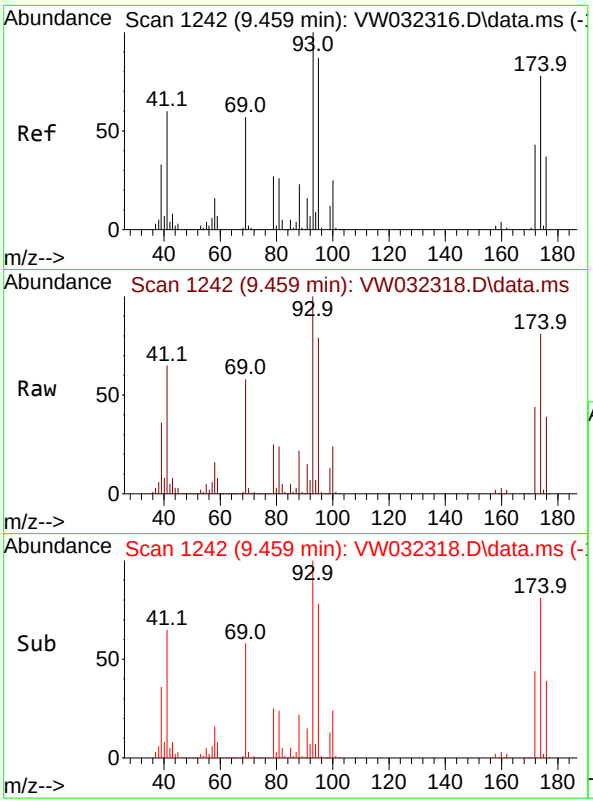


#48
Methyl methacrylate
Concen: 162.411 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 41 Resp: 459352

Ion	Ratio	Lower	Upper
41	100		
69	88.2	71.5	107.3
39	54.3	55.9	83.9#

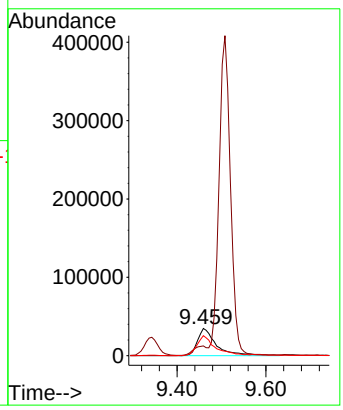




#49
1,4-Dioxane
Concen: 3174.916 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 88 Resp: 10285

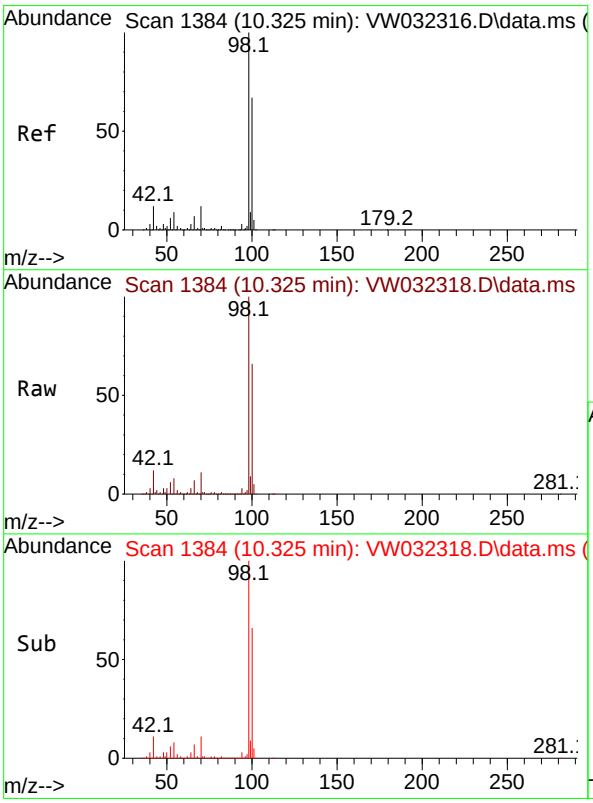
Ion	Ratio	Lower	Upper
88	100		
43	26.7	18.0	27.0
58	74.8	55.4	83.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

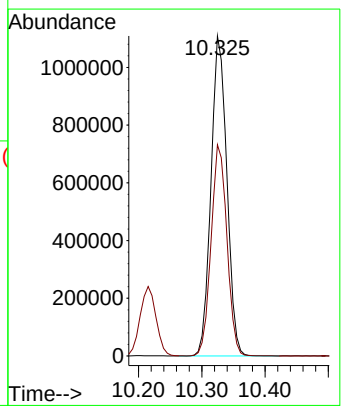
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

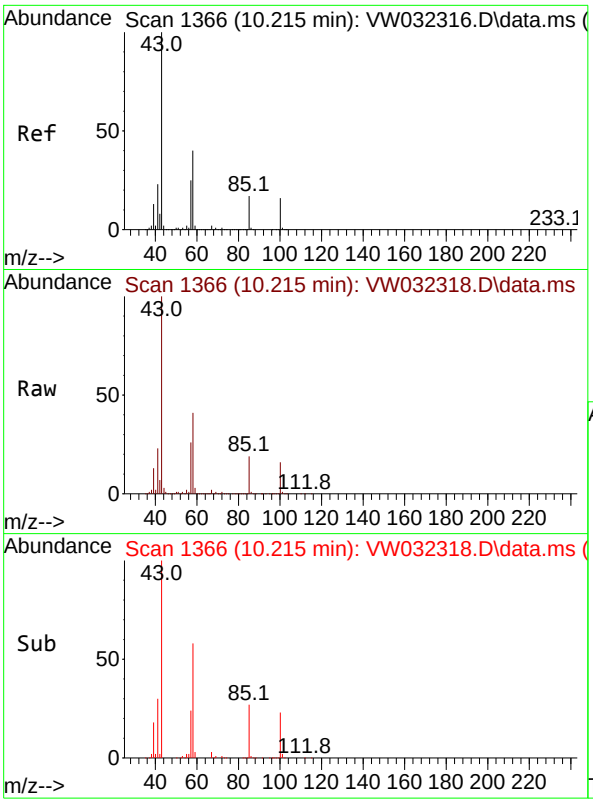


#50
Toluene-d8
Concen: 149.885 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 98 Resp: 1931096

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.4	77.2

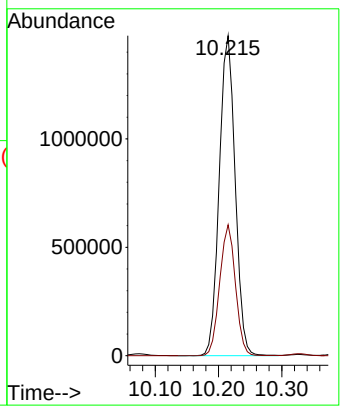




#51
4-Methyl-2-Pentanone
Concen: 760.880 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 43 Resp: 256364

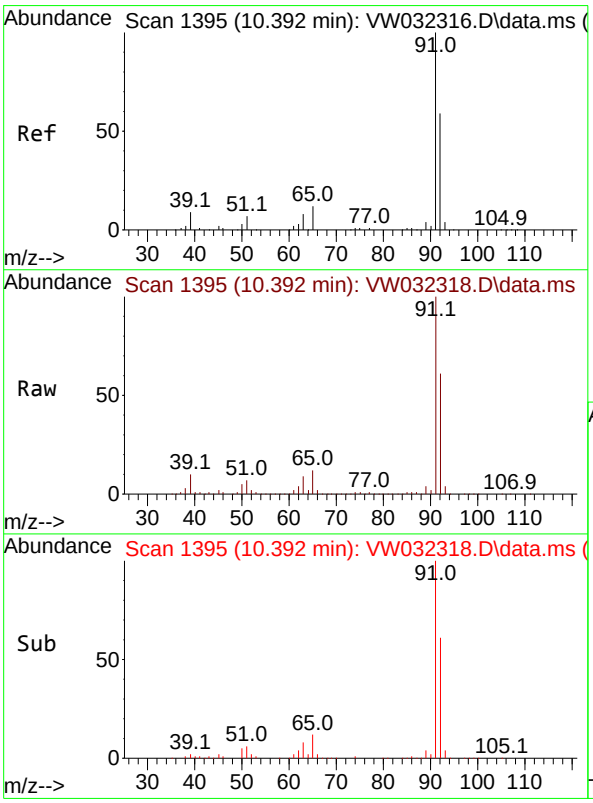
Ion	Ratio	Lower	Upper
43	100		
58	40.4	32.0	48.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

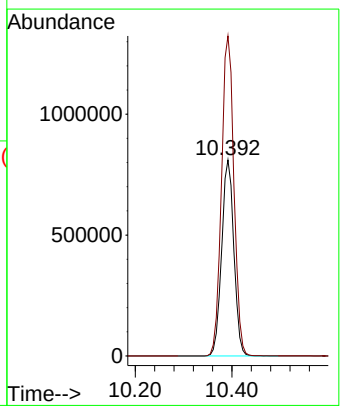
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

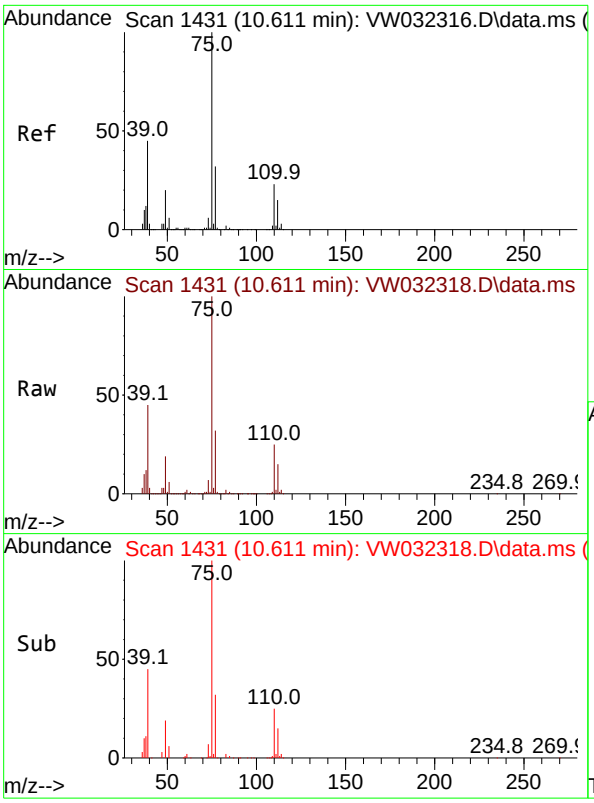


#52
Toluene
Concen: 147.299 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 92 Resp: 1416495

Ion	Ratio	Lower	Upper
92	100		
91	166.7	137.5	206.3

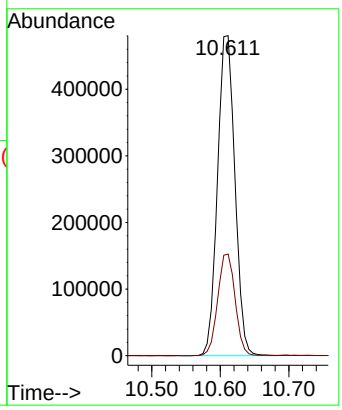




#53
t-1,3-Dichloropropene
Concen: 160.824 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 75 Resp: 84582

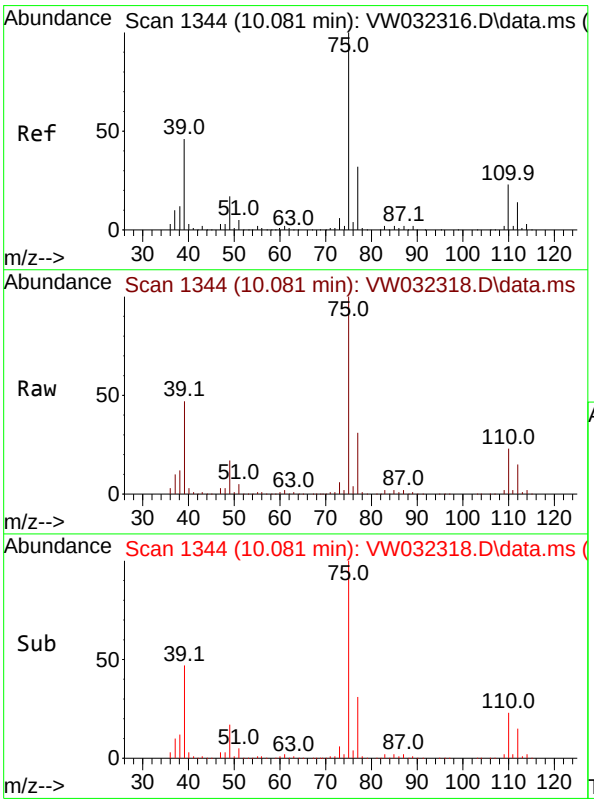
Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.6	38.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

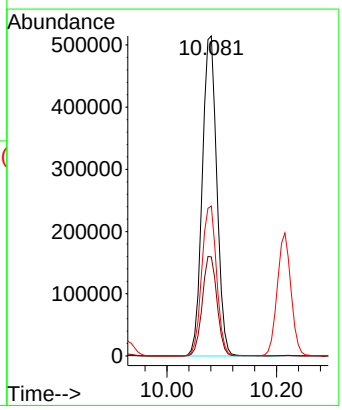
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

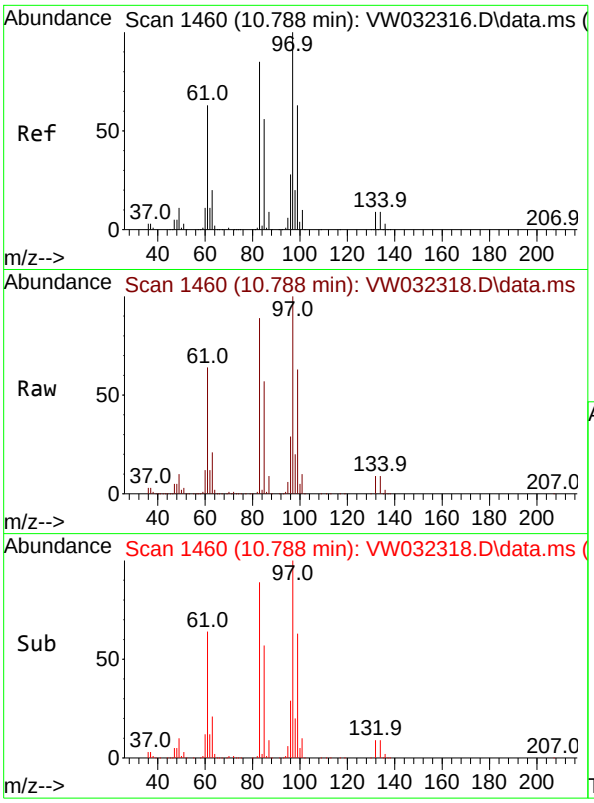


#54
cis-1,3-Dichloropropene
Concen: 155.941 ug/l
RT: 10.081 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 75 Resp: 944717

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.1	37.7
39	46.8	43.2	64.8

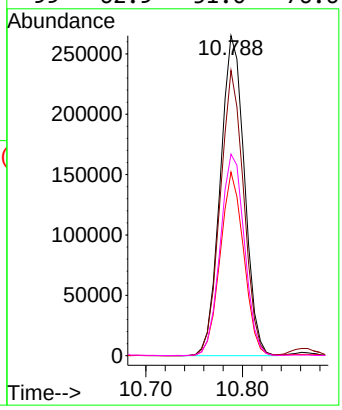




#55
1,1,2-Trichloroethane
Concen: 145.242 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 97 Resp: 46008

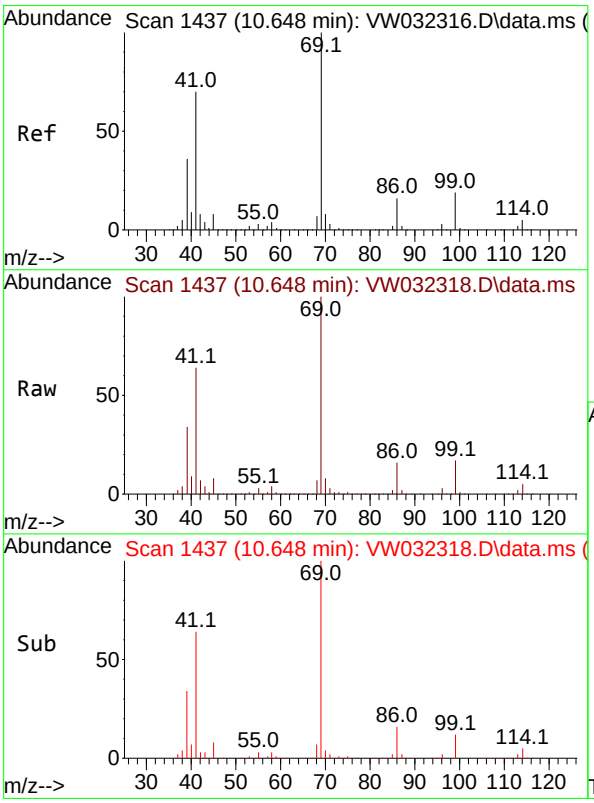
Ion	Ratio	Lower	Upper
97	100		
83	89.1	71.0	106.6
85	57.3	42.8	64.2
99	62.9	51.0	76.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

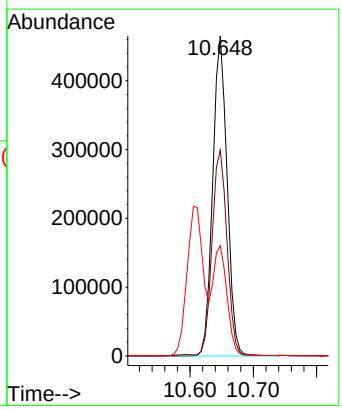
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

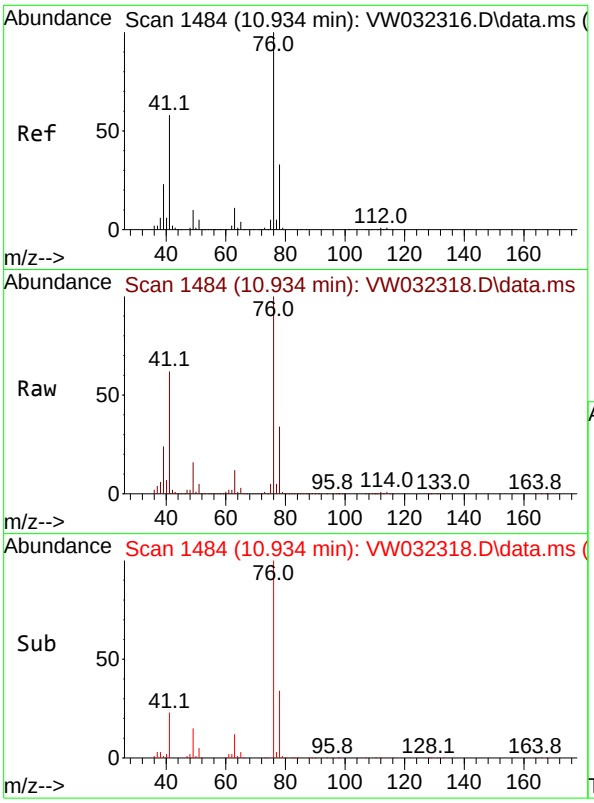


#56
Ethyl methacrylate
Concen: 165.515 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 69 Resp: 733869

Ion	Ratio	Lower	Upper
69	100		
41	66.4	53.2	79.8
39	33.0	32.9	49.3





#57
1,3-Dichloropropane
Concen: 146.656 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

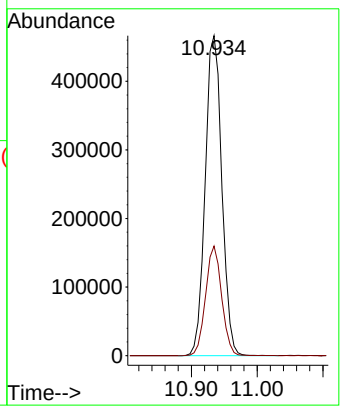
Tgt Ion: 76 Resp: 82051(

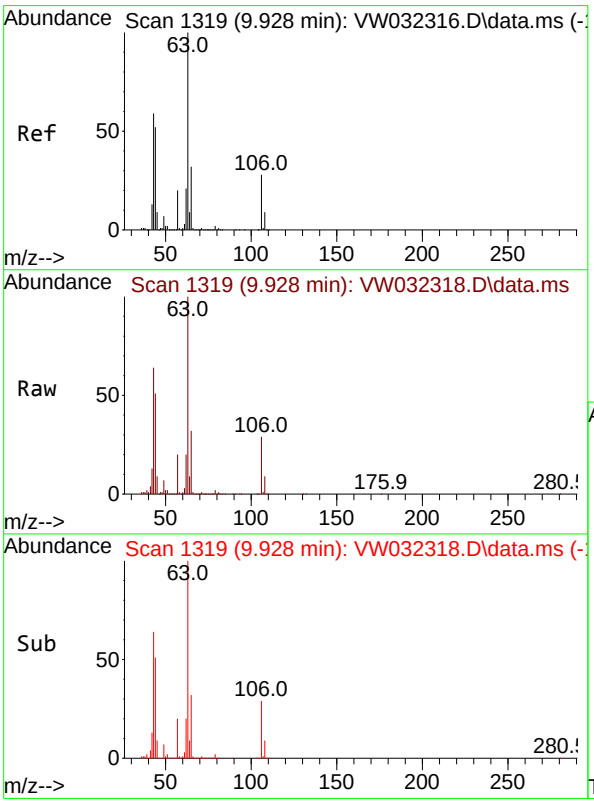
Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.2	39.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

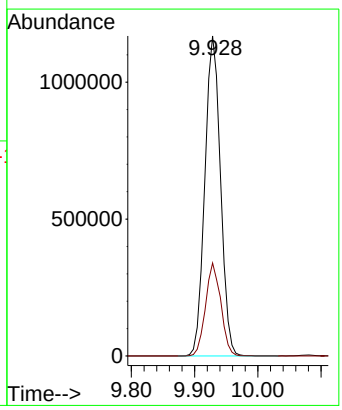


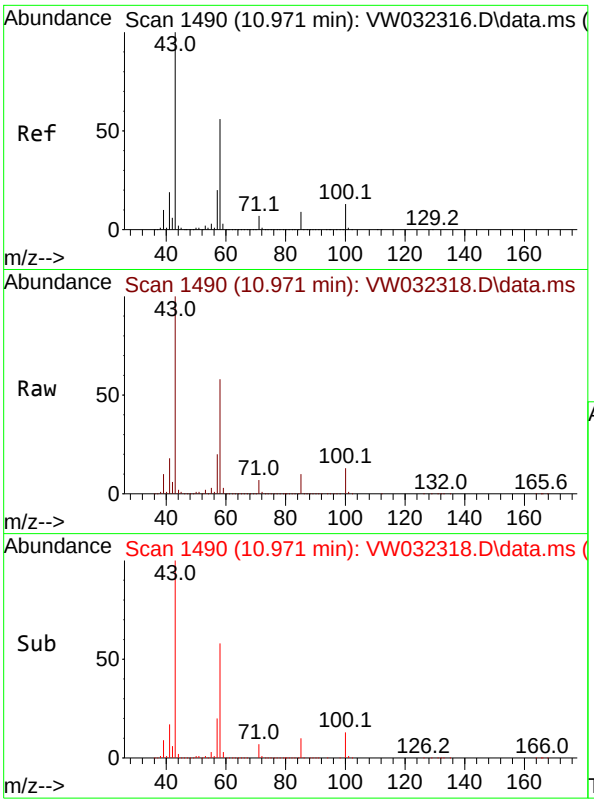


#58
2-Chloroethyl Vinyl ether
Concen: 853.757 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 63 Resp: 2014602

Ion	Ratio	Lower	Upper
63	100		
106	28.3	24.3	36.5

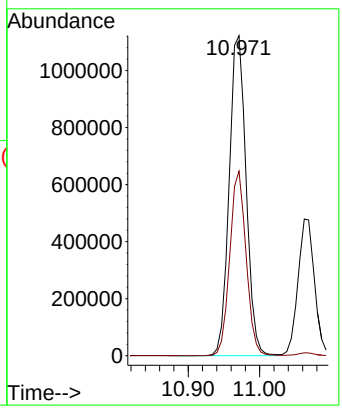




#59
2-Hexanone
Concen: 775.163 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 43 Resp: 184205

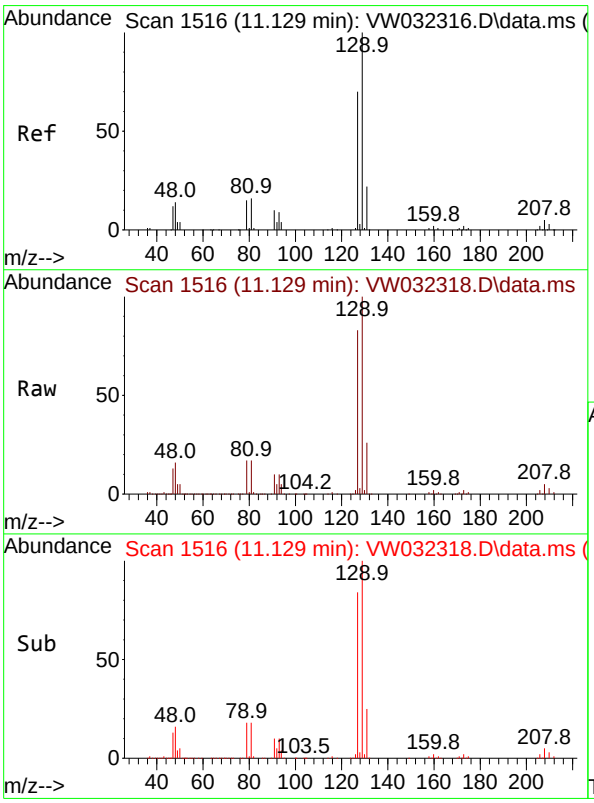
Ion	Ratio	Lower	Upper
43	100		
58	55.6	27.5	82.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

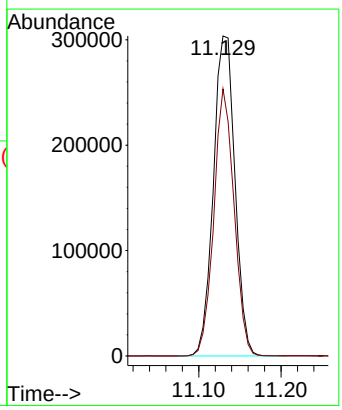
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

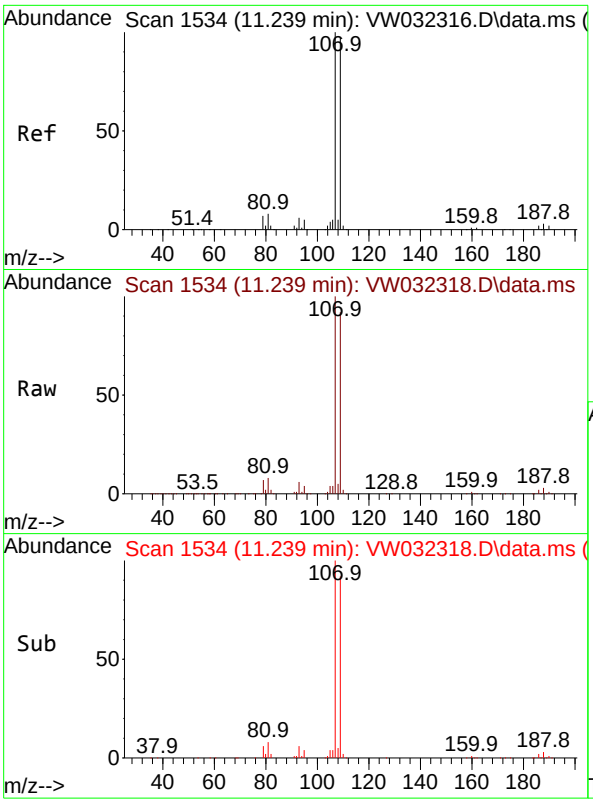


#60
Dibromochloromethane
Concen: 154.183 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:129 Resp: 554578

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.1	114.5

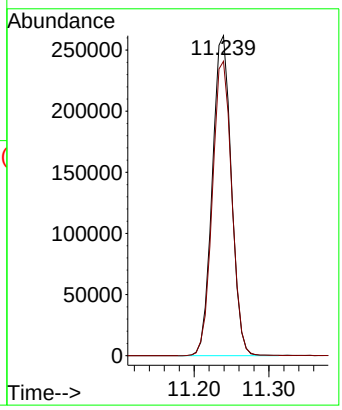




#61
1,2-Dibromoethane
Concen: 150.041 ug/l
RT: 11.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:107 Resp: 46344

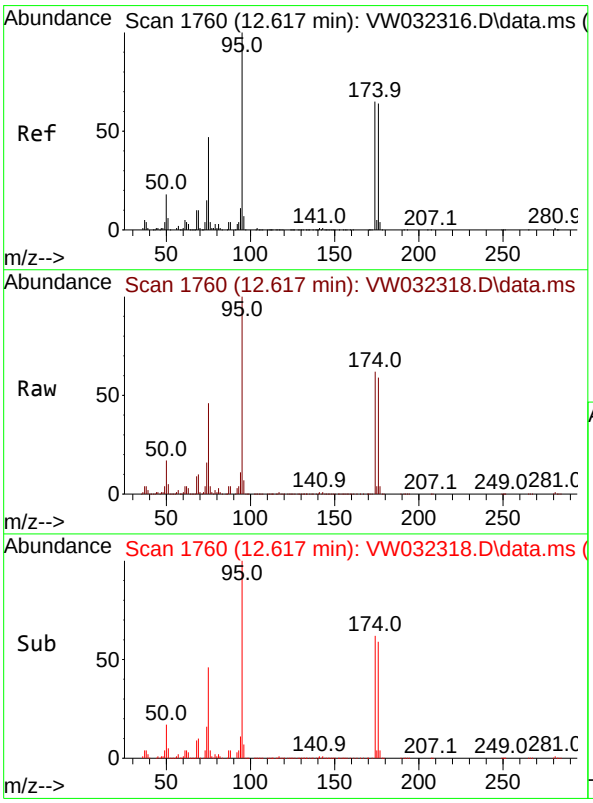
Ion	Ratio	Lower	Upper
107	100		
109	93.6	74.5	111.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

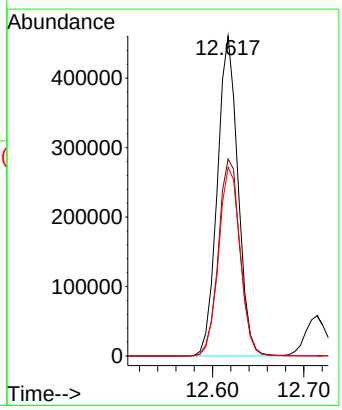
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

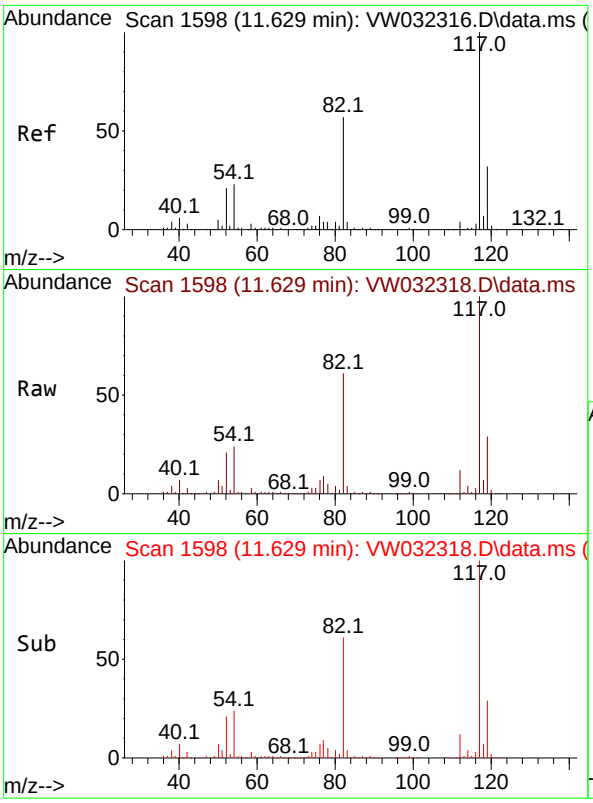


#62
4-Bromofluorobenzene
Concen: 148.089 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 95 Resp: 721146

Ion	Ratio	Lower	Upper
95	100		
174	64.6	0.0	145.6
176	61.8	0.0	140.8

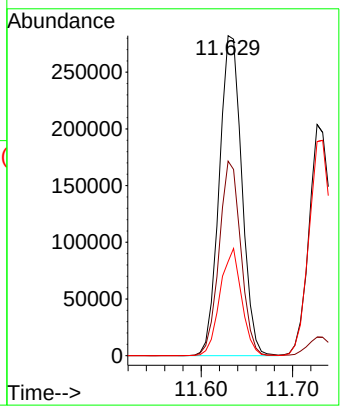




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:117 Resp: 48498

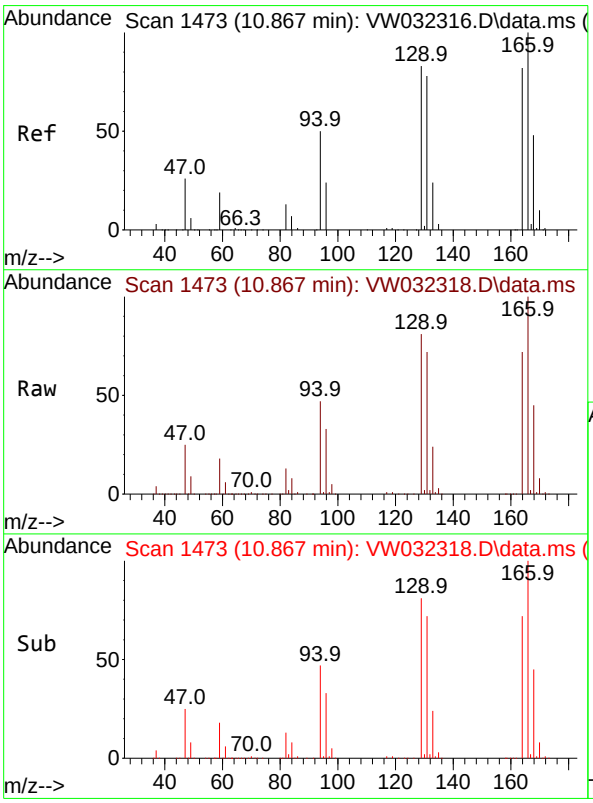
Ion	Ratio	Lower	Upper
117	100		
82	60.8	42.7	64.1
119	29.4	25.2	37.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

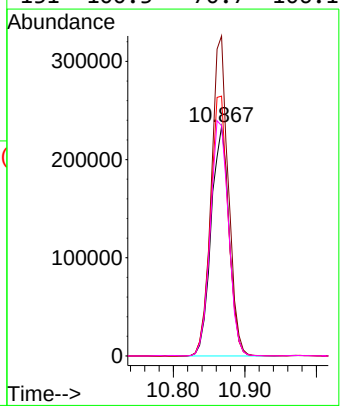
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

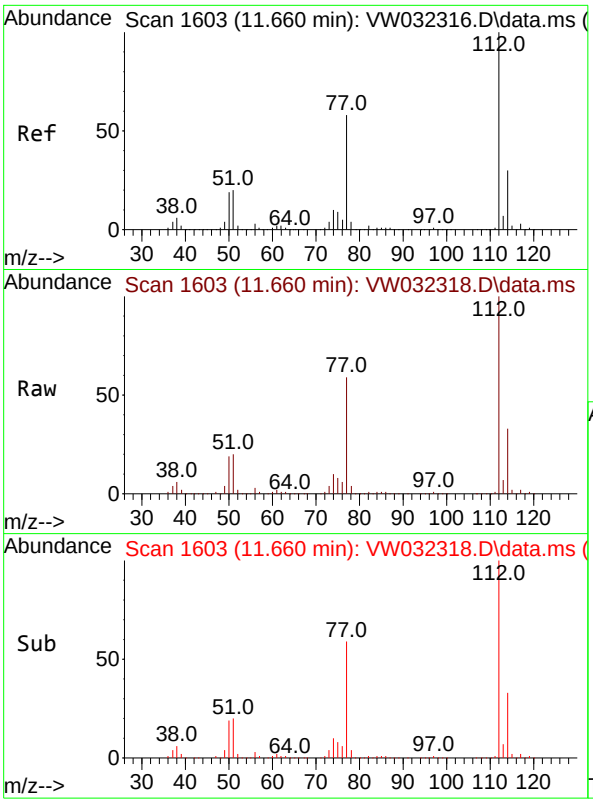


#64
Tetrachloroethene
Concen: 140.097 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:164 Resp: 406564

Ion	Ratio	Lower	Upper
164	100		
166	139.5	97.5	146.3
129	113.3	71.2	106.8#
131	100.3	70.7	106.1

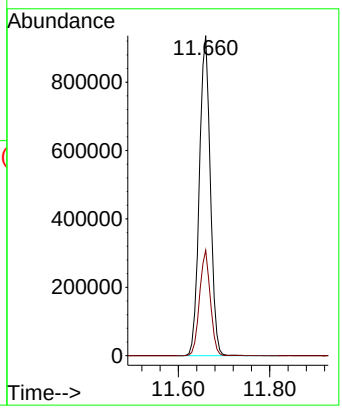




#65
Chlorobenzene
Concen: 145.914 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:112 Resp: 155703

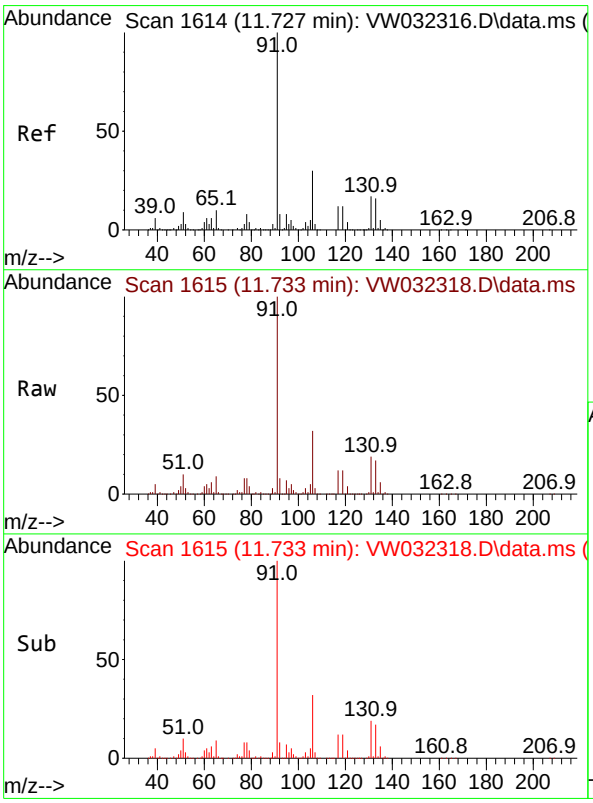
Ion	Ratio	Lower	Upper
112	100		
114	32.9	26.0	39.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

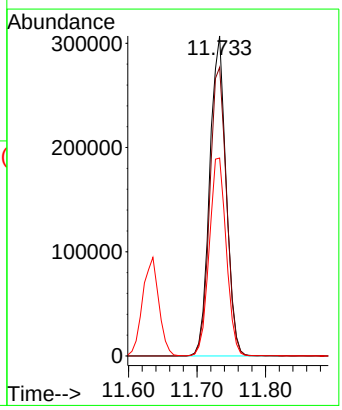
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

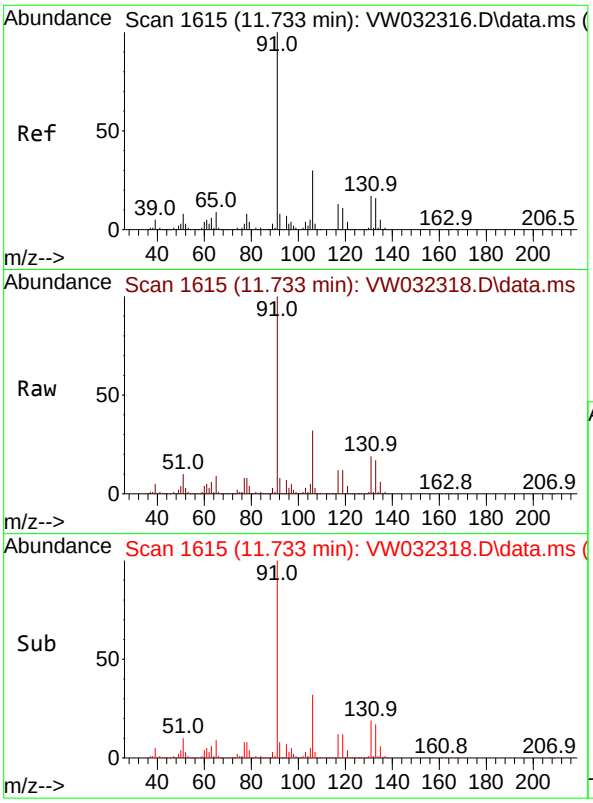


#66
1,1,1,2-Tetrachloroethane
Concen: 153.680 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:131 Resp: 510773

Ion	Ratio	Lower	Upper
131	100		
133	92.3	47.7	143.1
119	64.3	32.8	98.3





#67
Ethyl Benzene
Concen: 150.897 ug/l
RT: 11.733 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

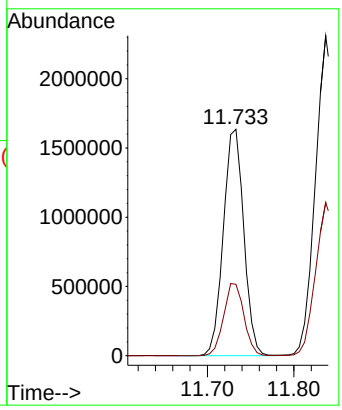
Tgt Ion: 91 Resp: 268401

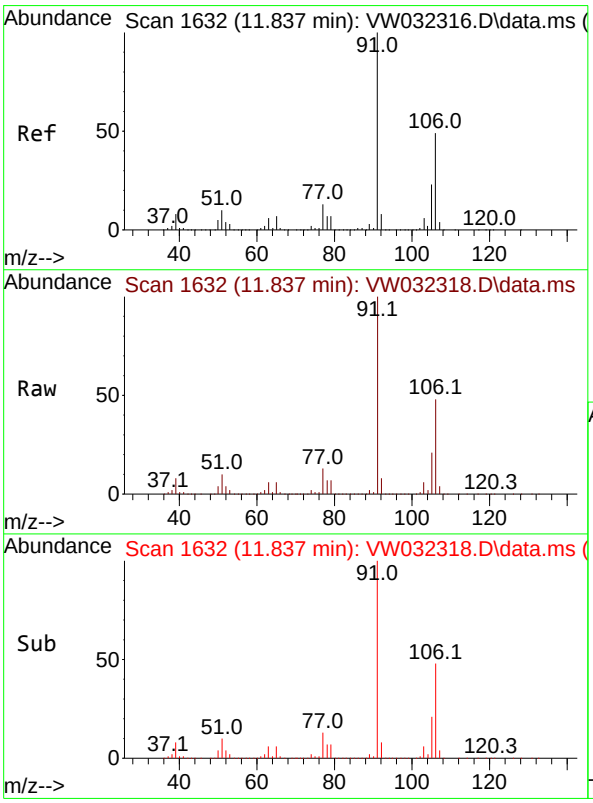
Ion	Ratio	Lower	Upper
91	100		
106	31.5	25.3	37.9

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

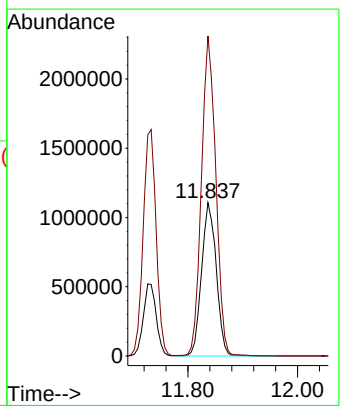


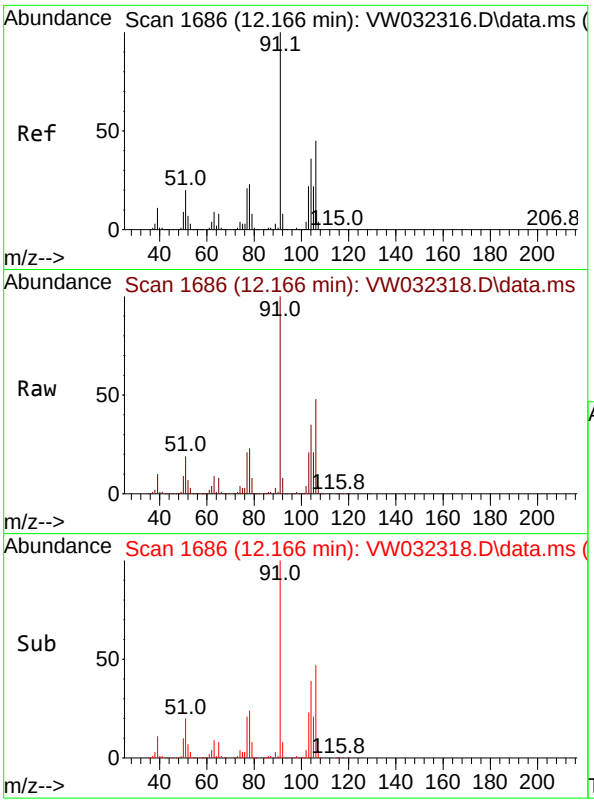


#68
m/p-Xylenes
Concen: 299.170 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:106 Resp: 2051963

Ion	Ratio	Lower	Upper
106	100		
91	205.1	164.2	246.2





#69
o-Xylene
Concen: 153.842 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

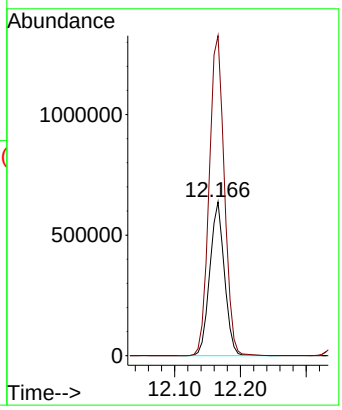
Tgt Ion:106 Resp: 98677

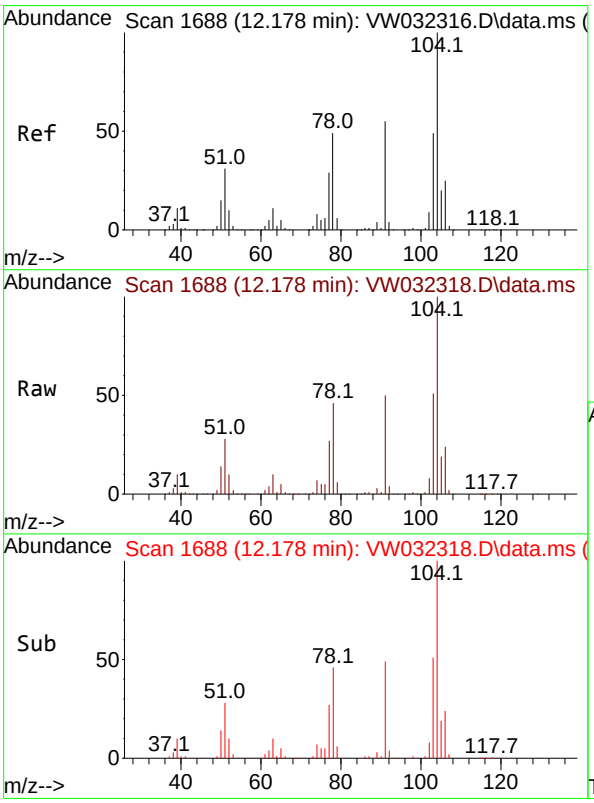
Ion	Ratio	Lower	Upper
106	100		
91	215.7	108.7	326.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

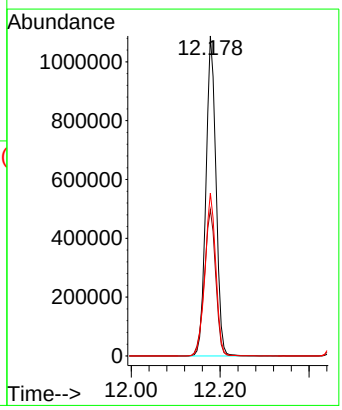


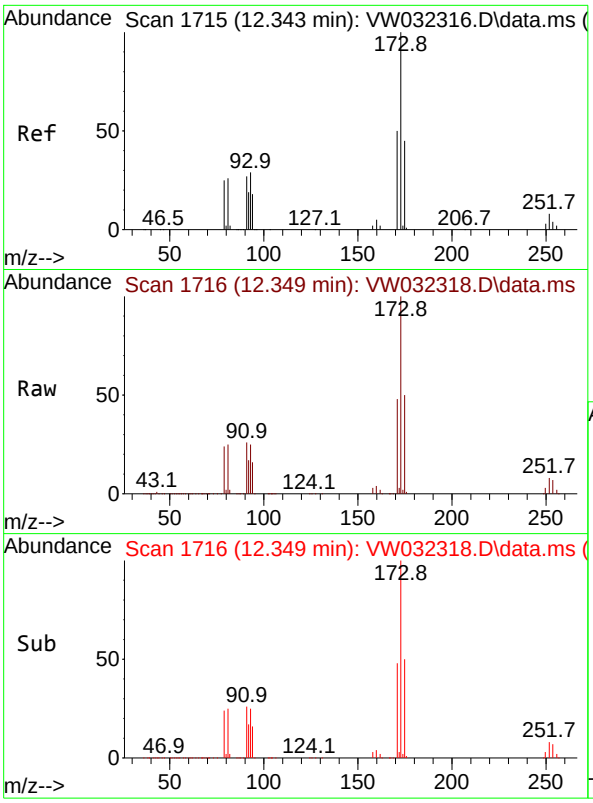


#70
Styrene
Concen: 154.098 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:104 Resp: 1725722

Ion	Ratio	Lower	Upper
104	100		
78	51.1	41.6	62.4
103	54.6	44.8	67.2

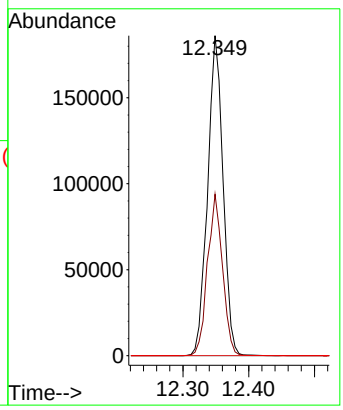




#71
Bromoform
Concen: 159.692 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:173 Resp: 30422

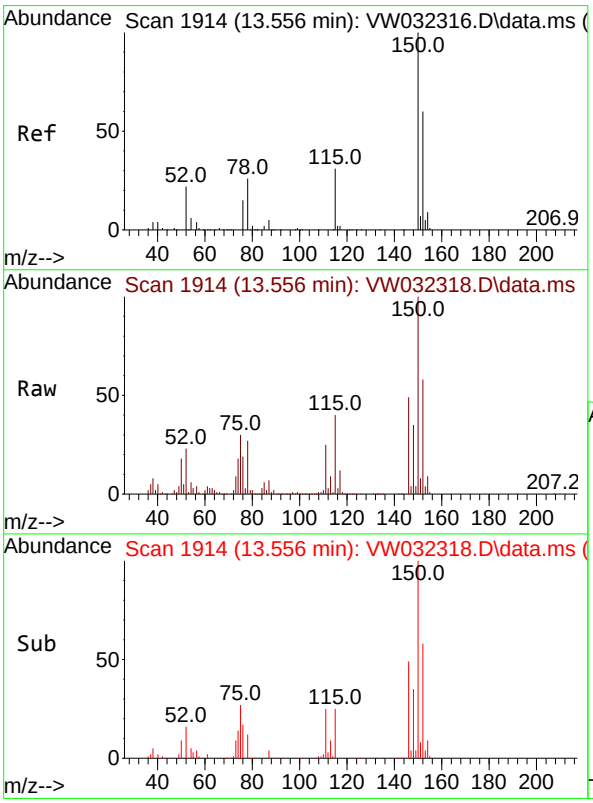
Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.9	74.7
254	0.0	0.2	0.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

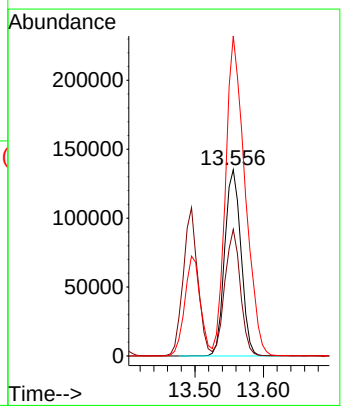
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

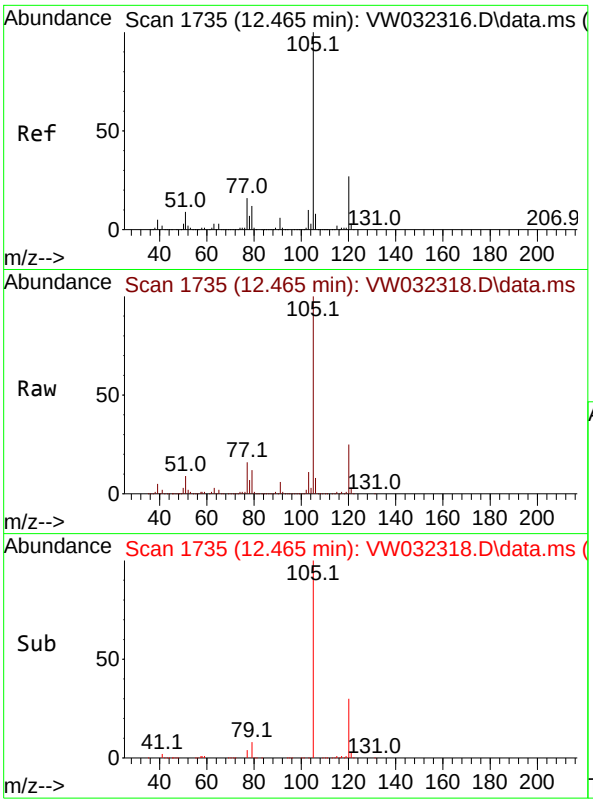


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:152 Resp: 222254

Ion	Ratio	Lower	Upper
152	100		
115	64.7	31.8	95.4
150	205.1	0.0	343.0

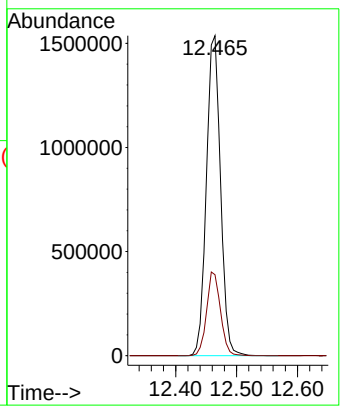




#73
Isopropylbenzene
Concen: 162.844 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:105 Resp: 247614

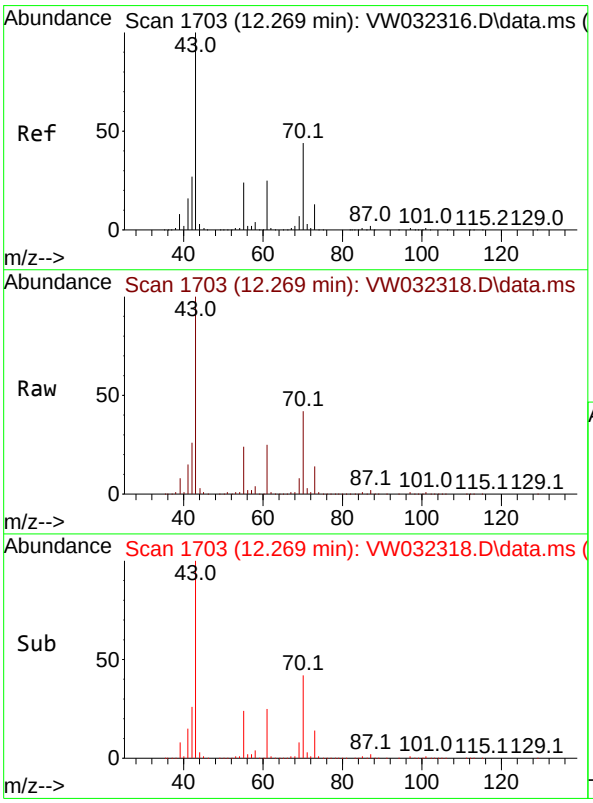
Ion	Ratio	Lower	Upper
105	100		
120	25.6	13.0	38.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

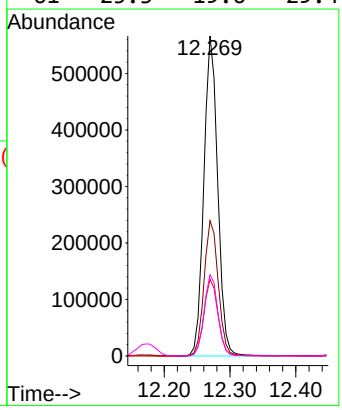
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

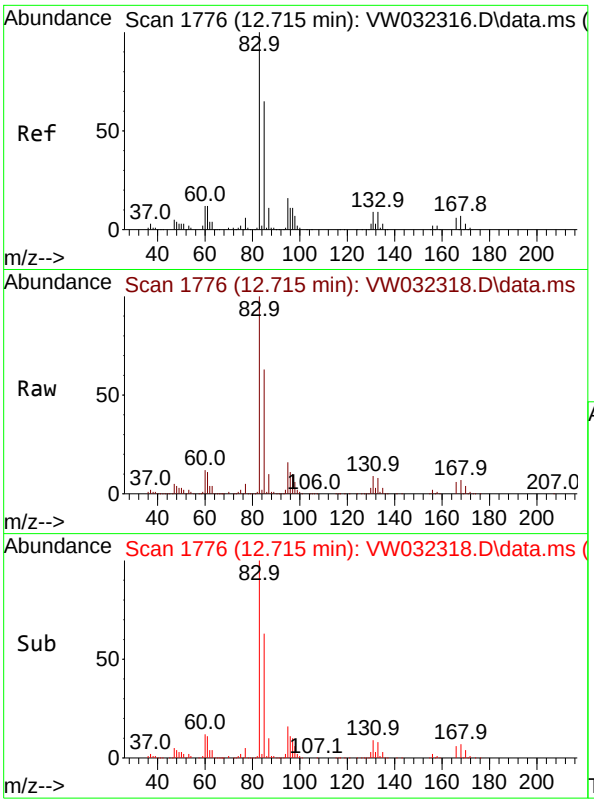


#74
N-amyl acetate
Concen: 171.063 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 43 Resp: 829796

Ion	Ratio	Lower	Upper
43	100		
70	43.4	35.3	52.9
55	24.4	19.9	29.9
61	25.3	19.6	29.4

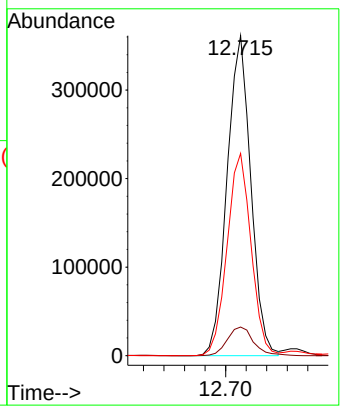




#75
1,1,2,2-Tetrachloroethane
Concen: 153.538 ug/l
RT: 12.715 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 83 Resp: 57968

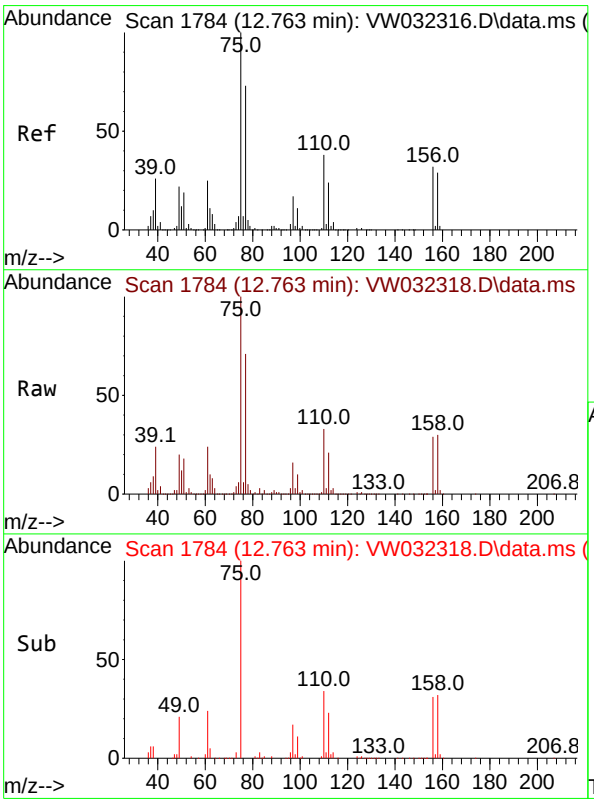
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	63.9	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

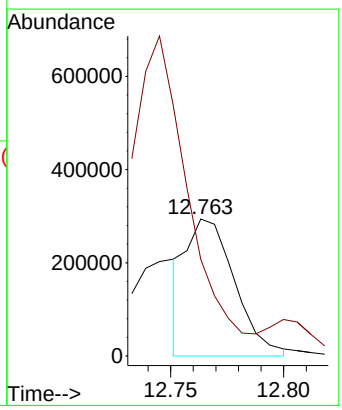
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

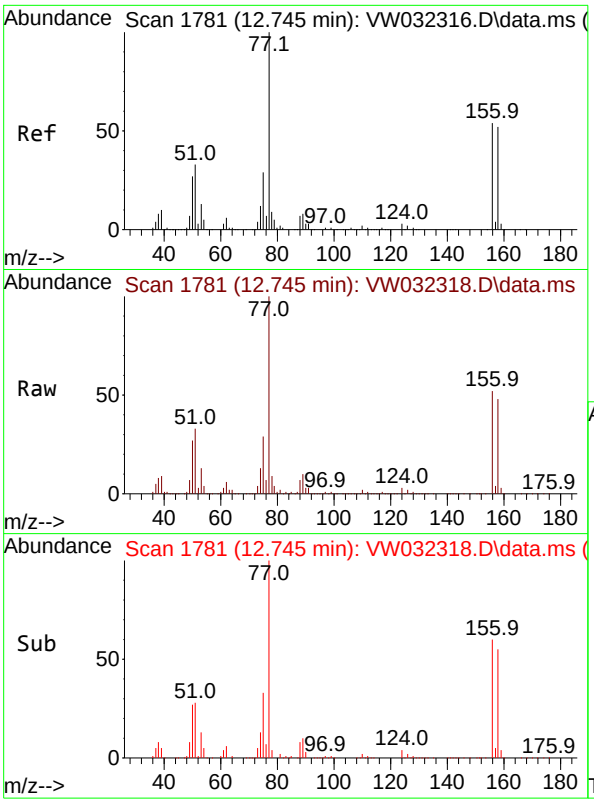


#76
1,2,3-Trichloropropane
Concen: 150.487 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 75 Resp: 441352

Ion	Ratio	Lower	Upper
75	100		
77	284.9	141.7	425.1

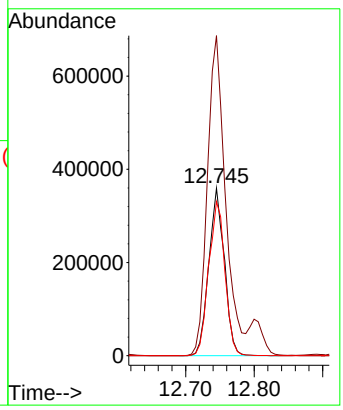




#77
Bromobenzene
Concen: 155.243 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:156 Resp: 56902

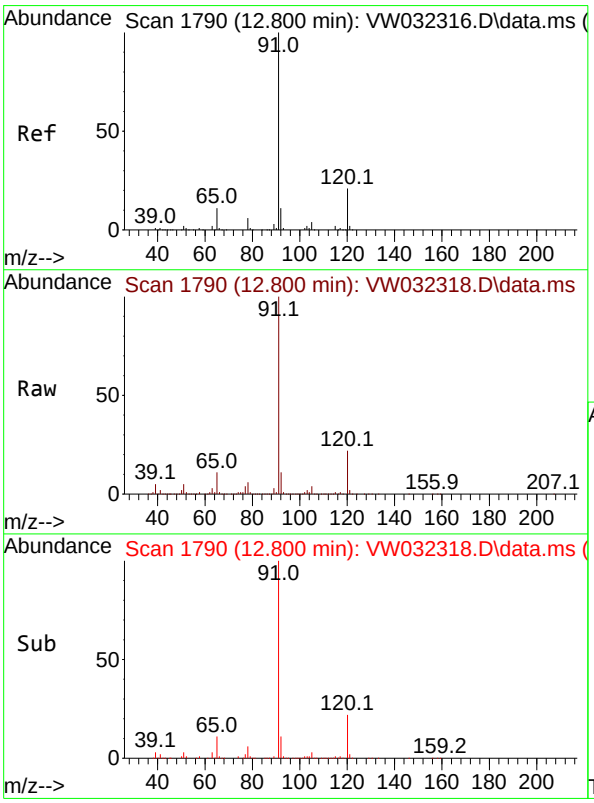
Ion	Ratio	Lower	Upper
156	100		
77	221.0	98.6	295.7
158	96.0	48.4	145.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

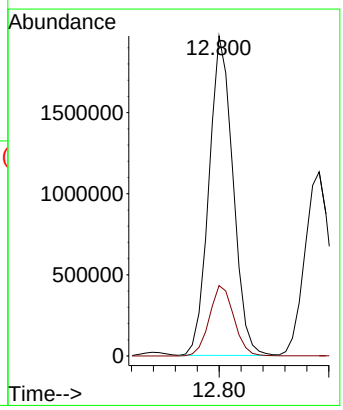
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

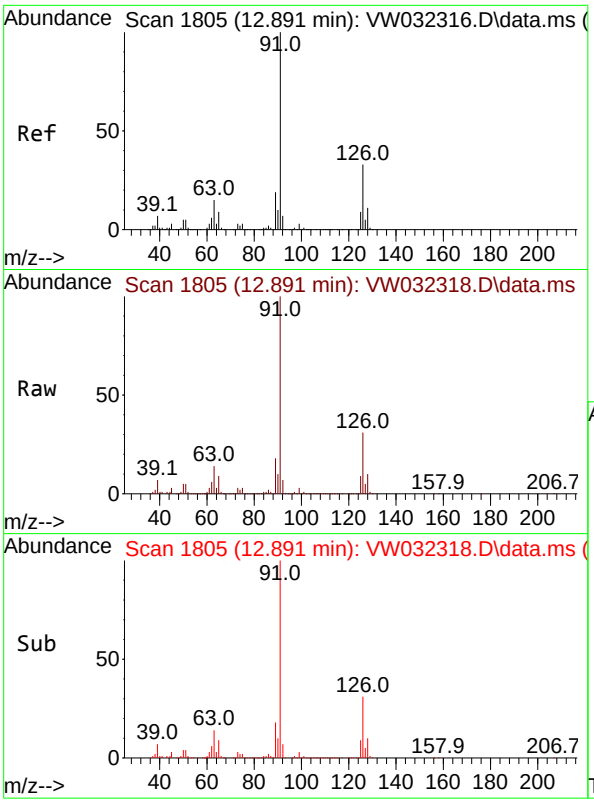


#78
n-propylbenzene
Concen: 158.050 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 91 Resp: 3001989

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.8	35.4

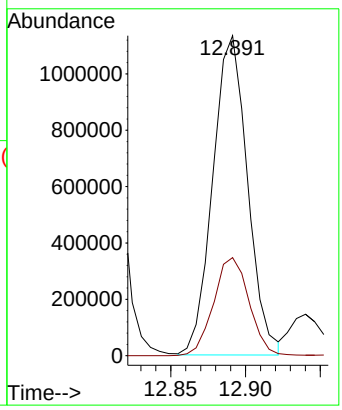




#79
2-Chlorotoluene
Concen: 157.767 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 91 Resp: 183223

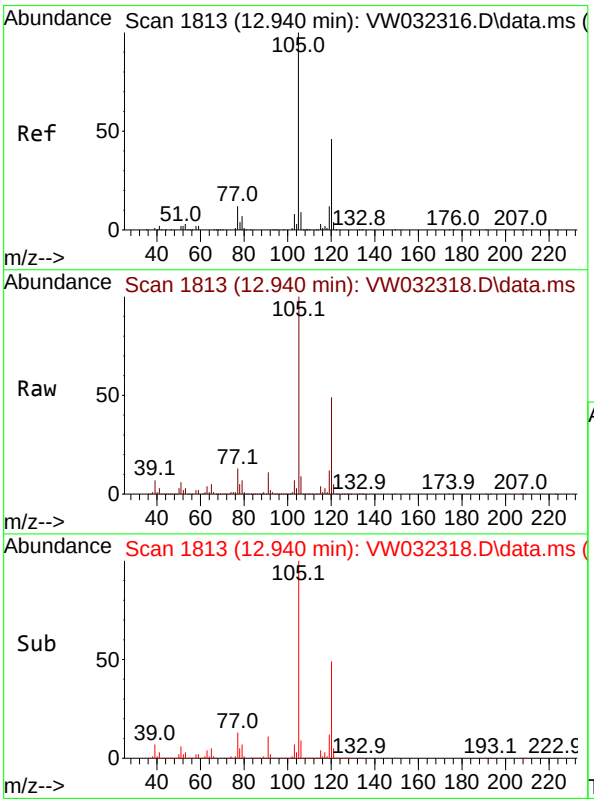
Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.6	49.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

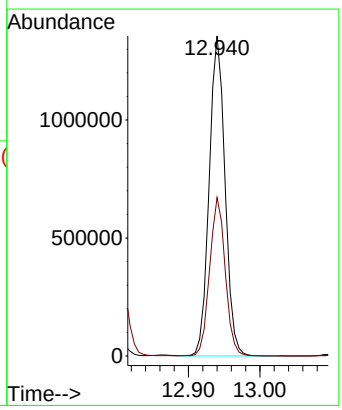
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

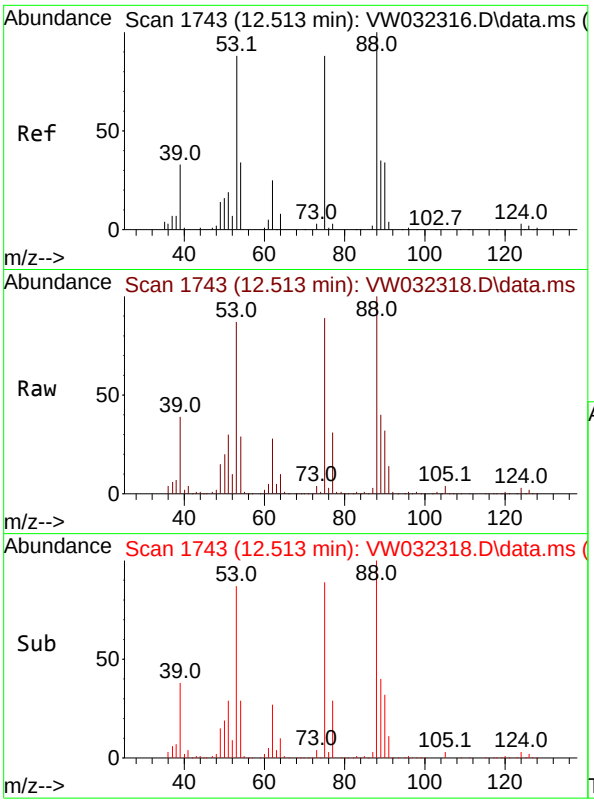


#80
1,3,5-Trimethylbenzene
Concen: 158.201 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:105 Resp: 2080060

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.8	74.4

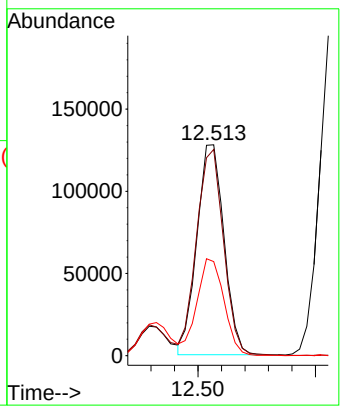




#81
trans-1,4-Dichloro-2-butene
Concen: 177.457 ug/l
RT: 12.513 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 75 Resp: 20488

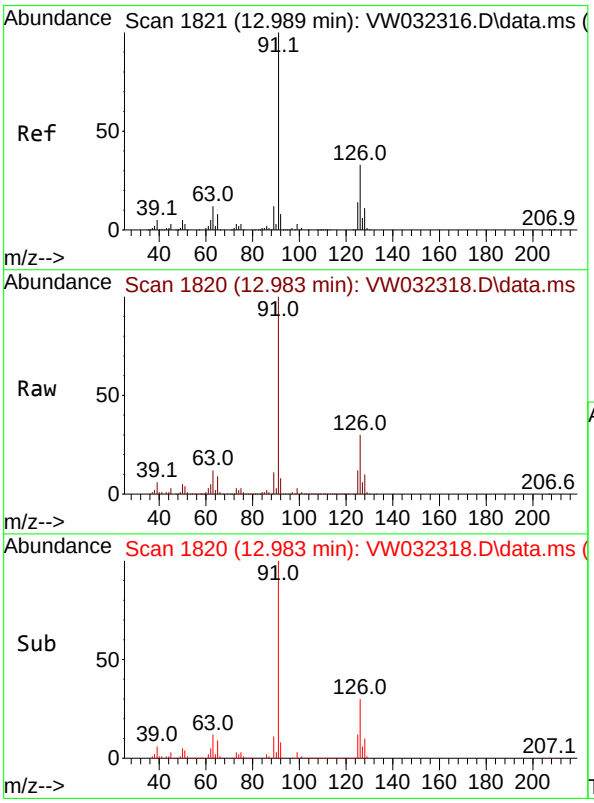
Ion	Ratio	Lower	Upper
75	100		
53	98.3	91.0	136.6
89	46.6	39.4	59.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

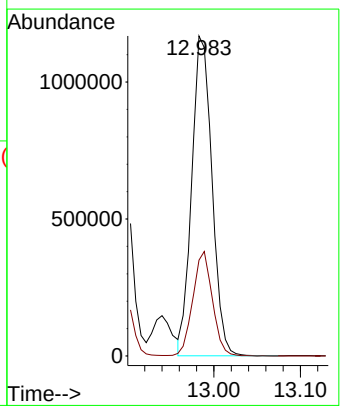
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

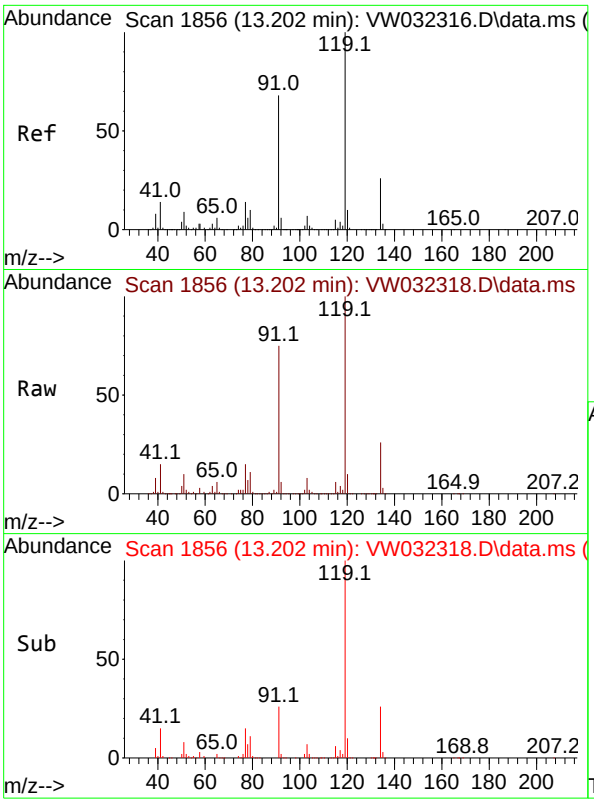


#82
4-Chlorotoluene
Concen: 153.300 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 91 Resp: 1892838

Ion	Ratio	Lower	Upper
91	100		
126	31.7	16.1	48.2

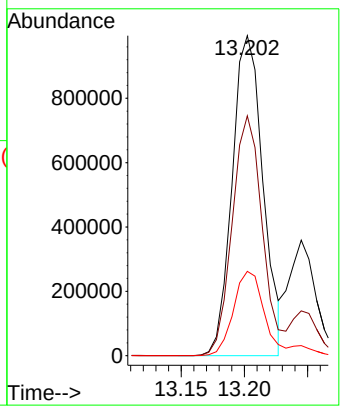




#83
tert-Butylbenzene
Concen: 156.599 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:119 Resp: 168940

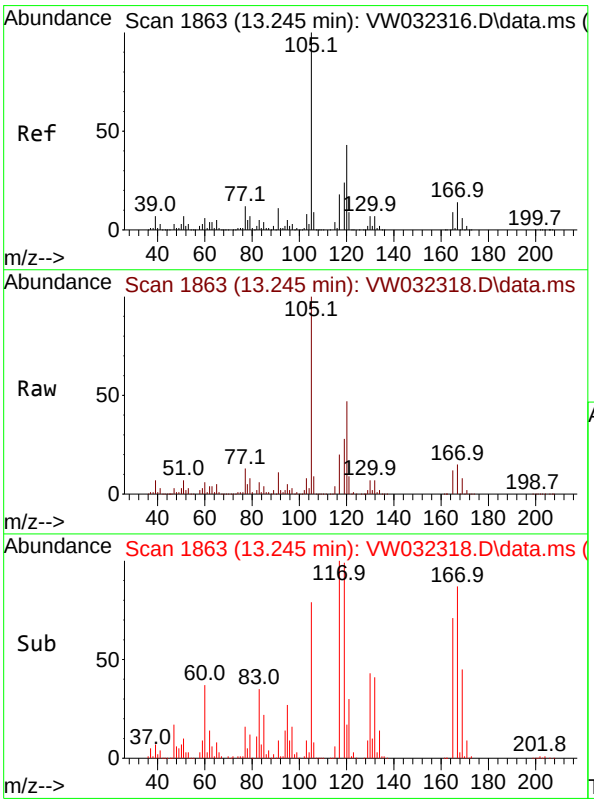
Ion	Ratio	Lower	Upper
119	100		
91	73.7	33.8	101.3
134	28.3	12.5	37.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

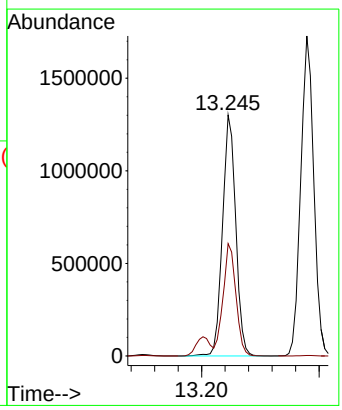
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

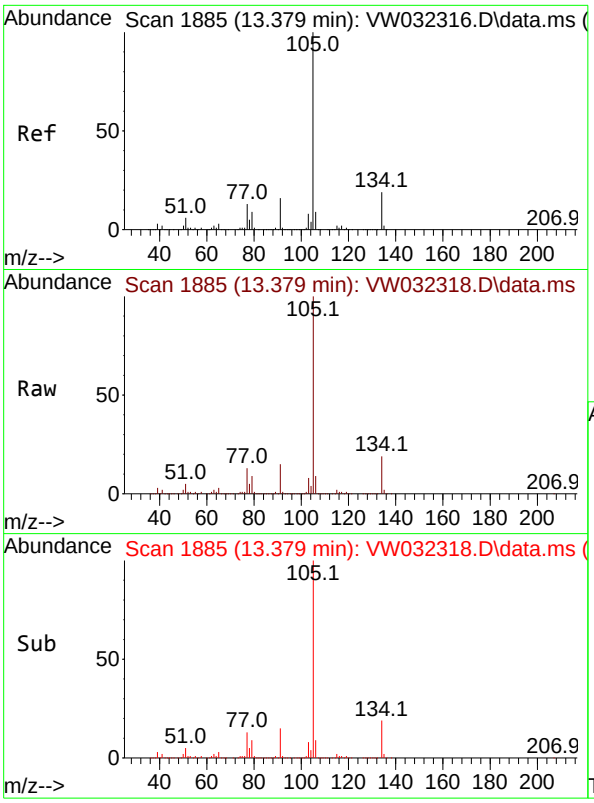


#84
1,2,4-Trimethylbenzene
Concen: 152.369 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:105 Resp: 2037112

Ion	Ratio	Lower	Upper
105	100		
120	45.1	22.1	66.3





#85
sec-Butylbenzene
Concen: 160.991 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

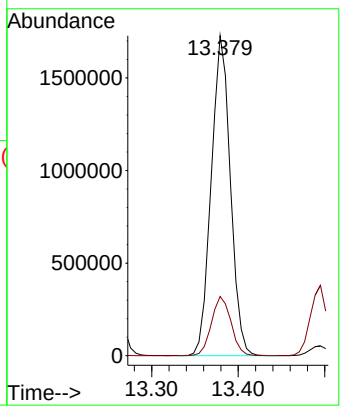
Tgt Ion:105 Resp: 265412

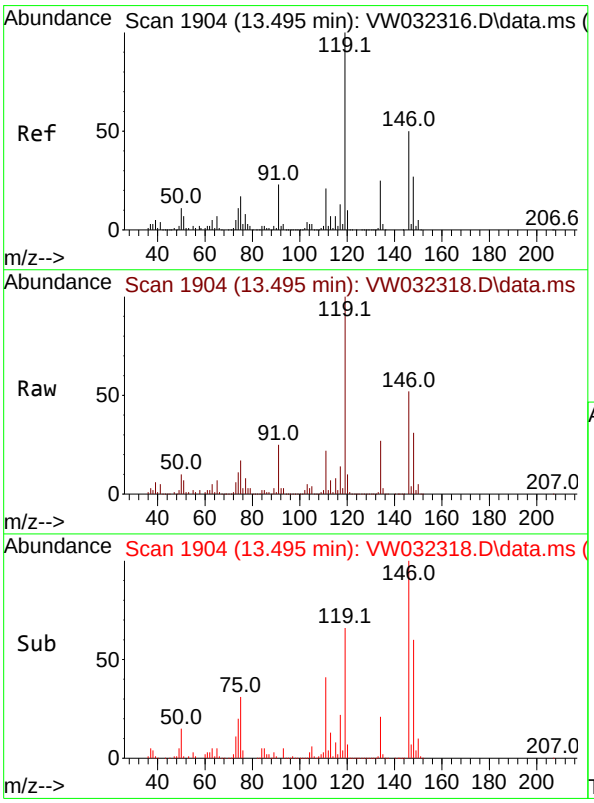
Ion	Ratio	Lower	Upper
105	100		
134	18.9	10.1	30.1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

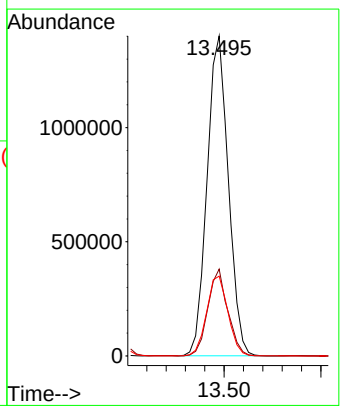


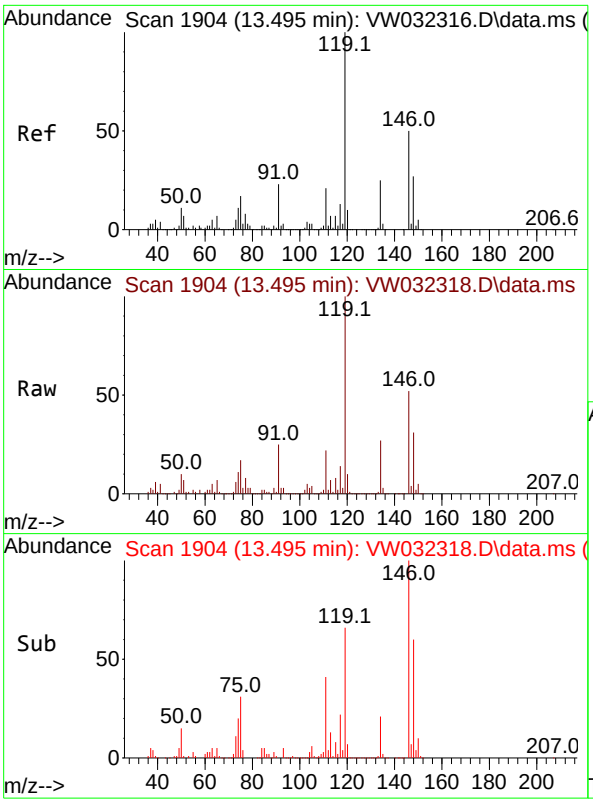


#86
p-Isopropyltoluene
Concen: 156.585 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:119 Resp: 2141983

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.6	37.6
91	24.9	12.4	37.0





#87
1,3-Dichlorobenzene
Concen: 154.671 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

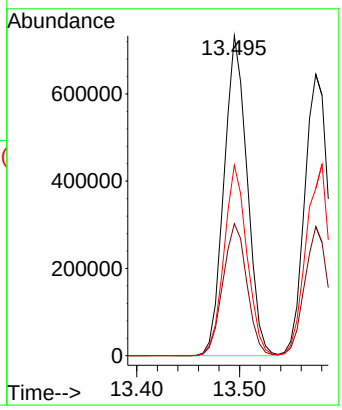
Tgt Ion:146 Resp: 114799

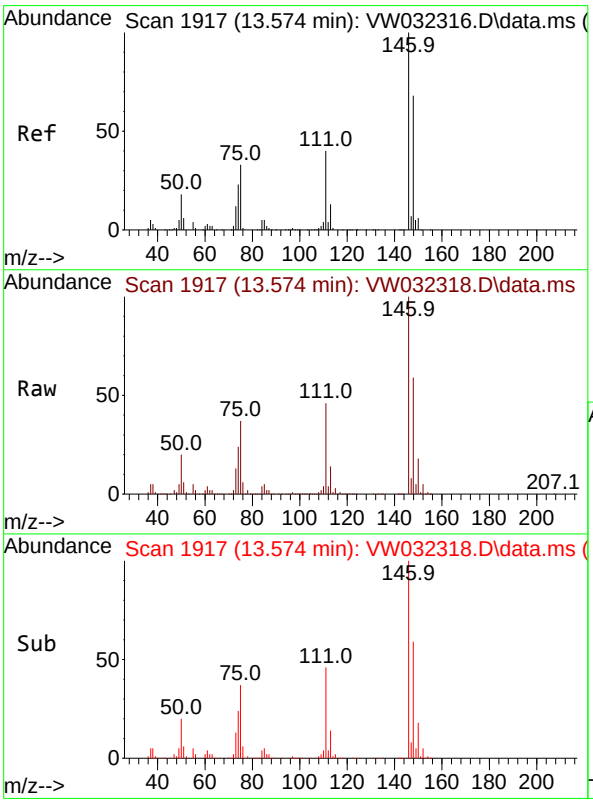
Ion	Ratio	Lower	Upper
146	100		
111	42.7	20.6	61.9
148	59.1	30.6	92.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

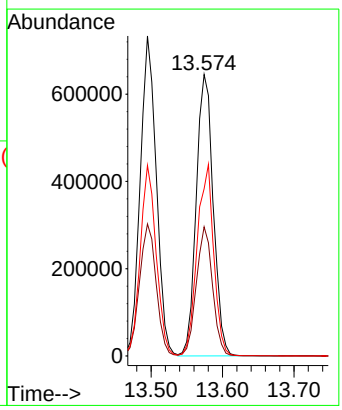


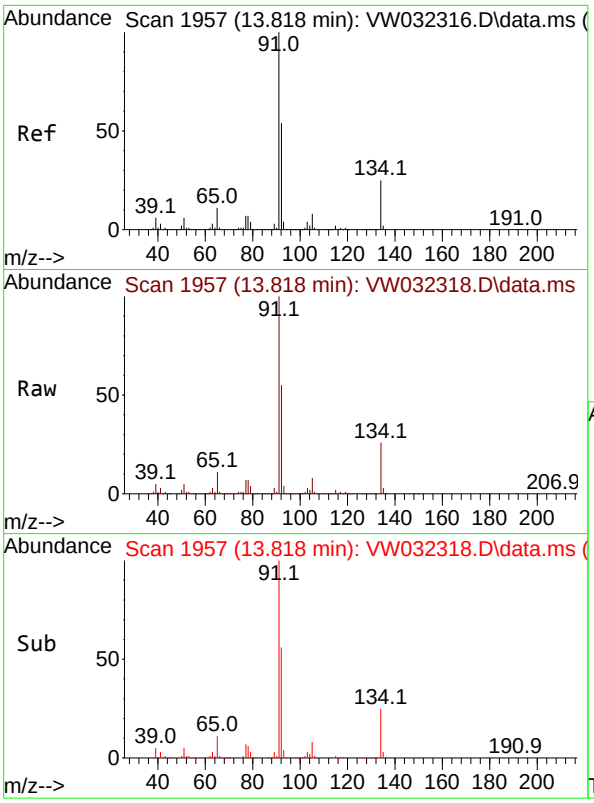


#88
1,4-Dichlorobenzene
Concen: 143.490 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:146 Resp: 1064904

Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.3	63.7
148	66.2	33.4	100.1

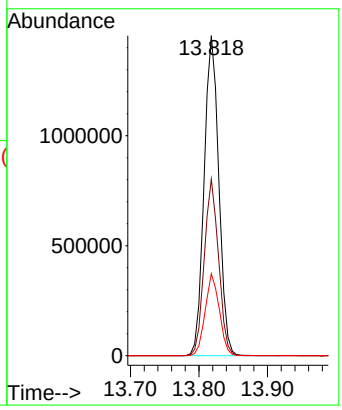




#89
n-Butylbenzene
Concen: 162.413 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 91 Resp: 216921

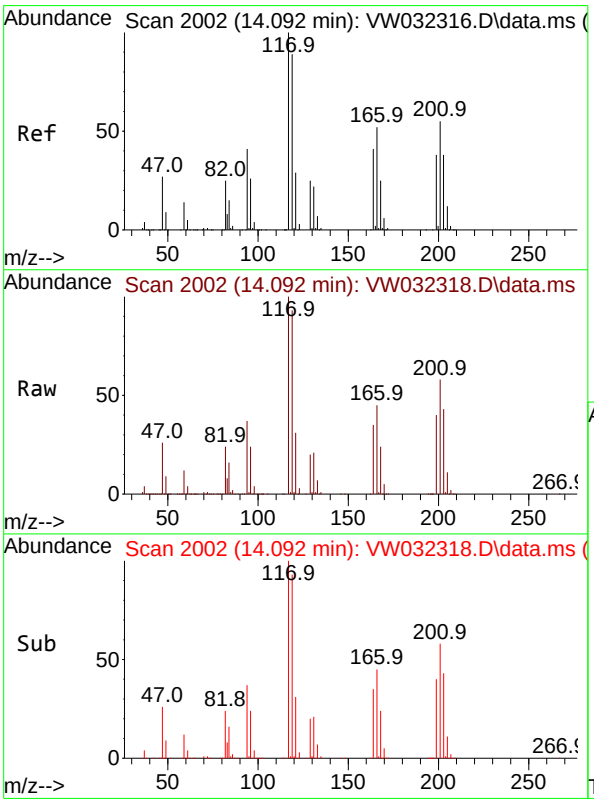
Ion	Ratio	Lower	Upper
91	100		
92	53.8	27.0	81.0
134	24.7	13.1	39.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

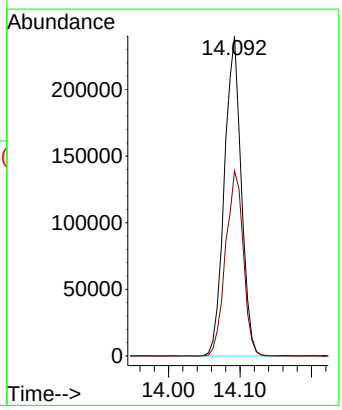
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

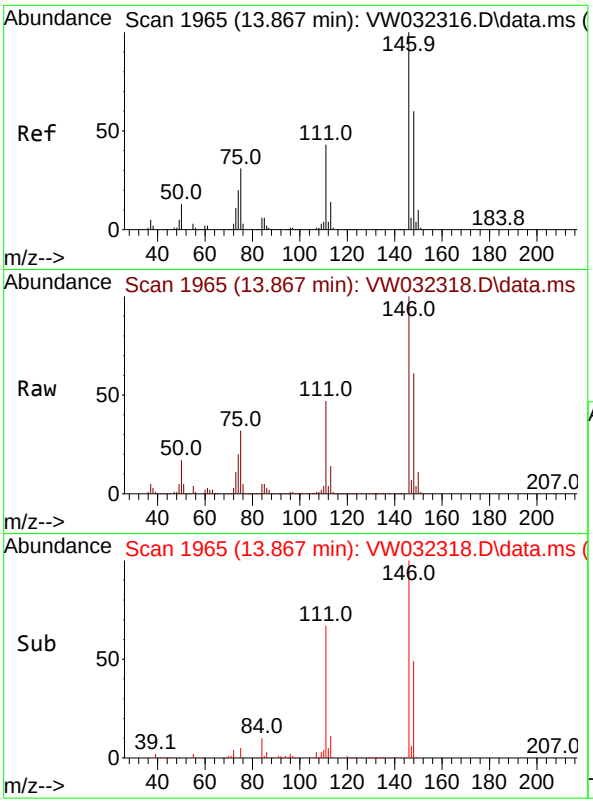


#90
Hexachloroethane
Concen: 160.071 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:117 Resp: 392482

Ion	Ratio	Lower	Upper
117	100		
201	60.7	32.8	98.4

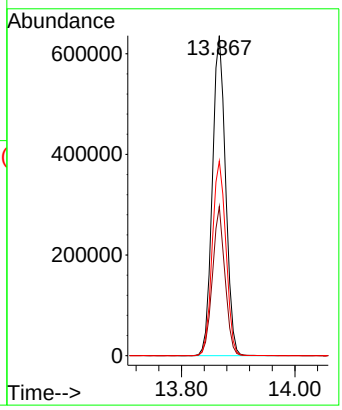




#91
1,2-Dichlorobenzene
Concen: 153.076 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:146 Resp: 102704

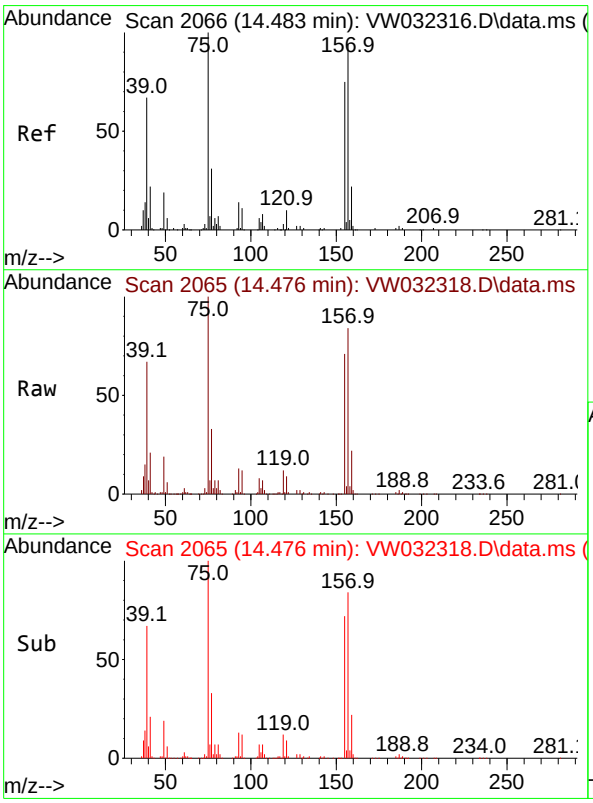
Ion	Ratio	Lower	Upper
146	100		
111	44.1	23.4	70.0
148	62.8	34.1	102.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

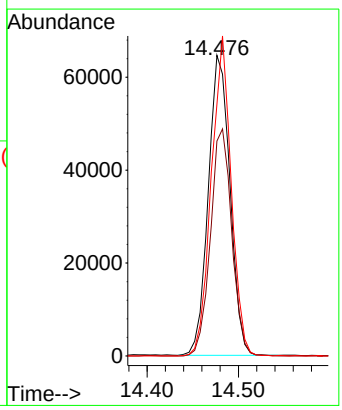
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

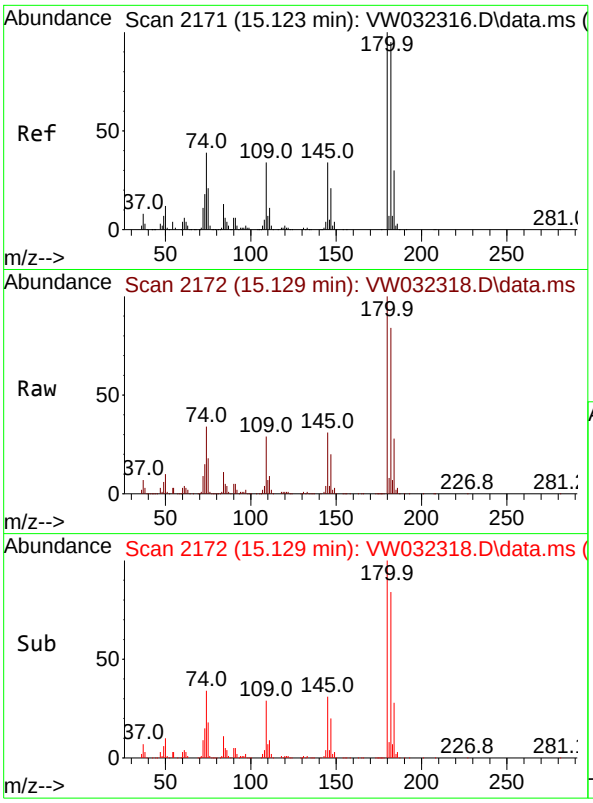


#92
1,2-Dibromo-3-Chloropropane
Concen: 160.891 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion: 75 Resp: 106355

Ion	Ratio	Lower	Upper
75	100		
155	74.4	40.8	122.5
157	97.8	51.8	155.4

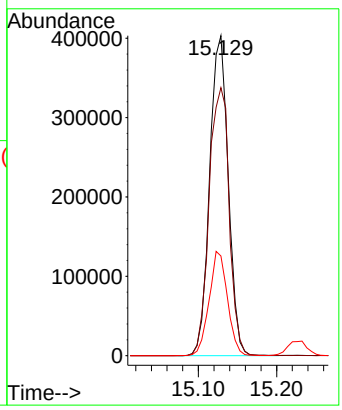




#93
1,2,4-Trichlorobenzene
Concen: 165.196 ug/l
RT: 15.129 min Scan# 21
Delta R.T. 0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:180 Resp: 66462(

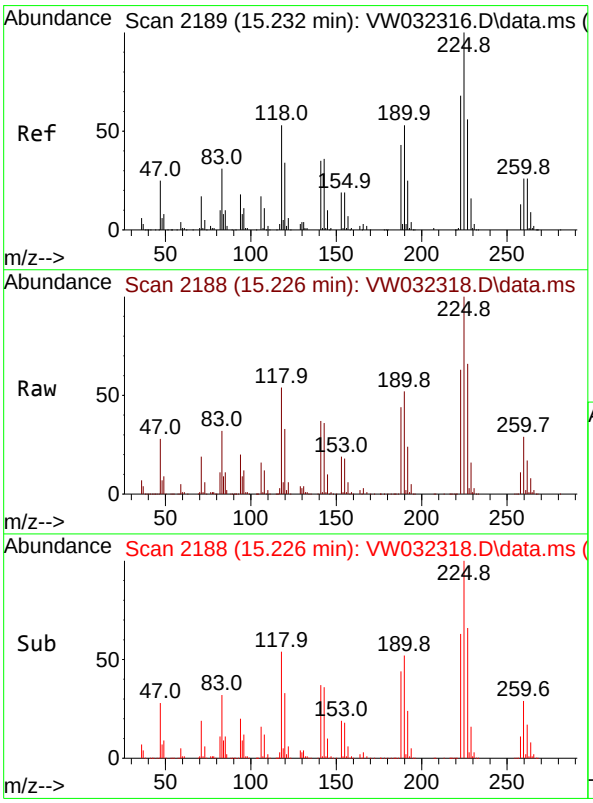
Ion	Ratio	Lower	Upper
180	100		
182	90.8	47.4	142.2
145	32.2	16.4	49.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

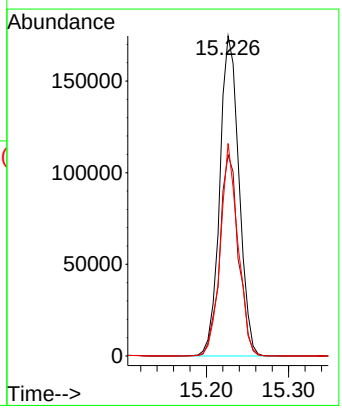
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

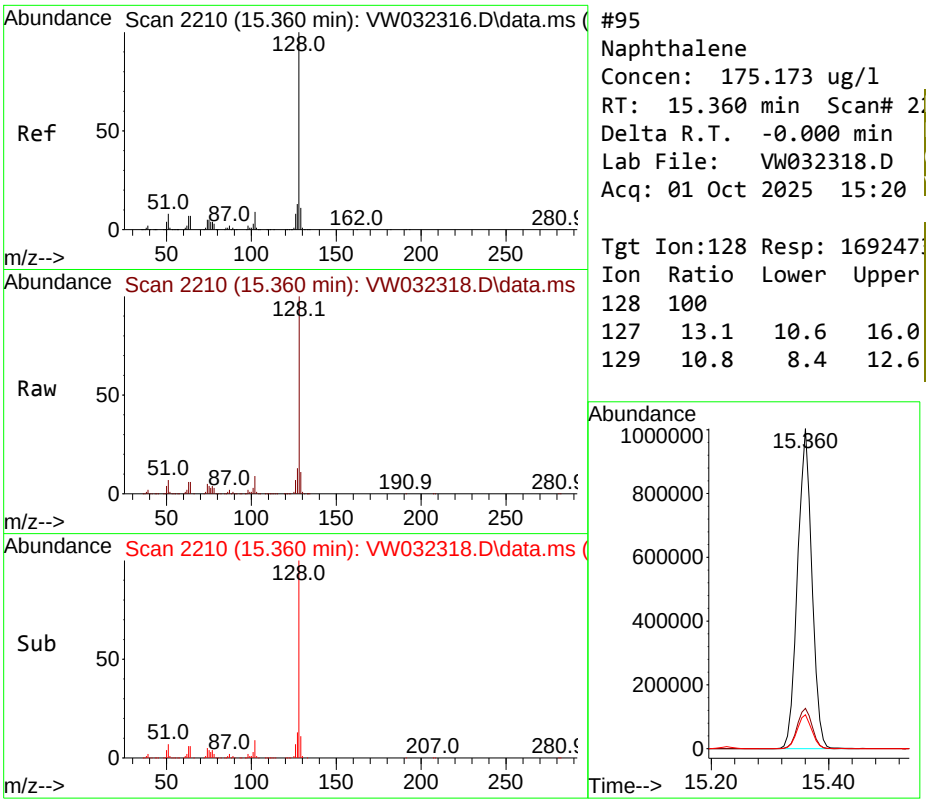


#94
Hexachlorobutadiene
Concen: 153.946 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:225 Resp: 283170

Ion	Ratio	Lower	Upper
225	100		
223	61.3	29.8	89.3
227	60.7	30.5	91.5





#95
Naphthalene
Concen: 175.173 ug/l
RT: 15.360 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

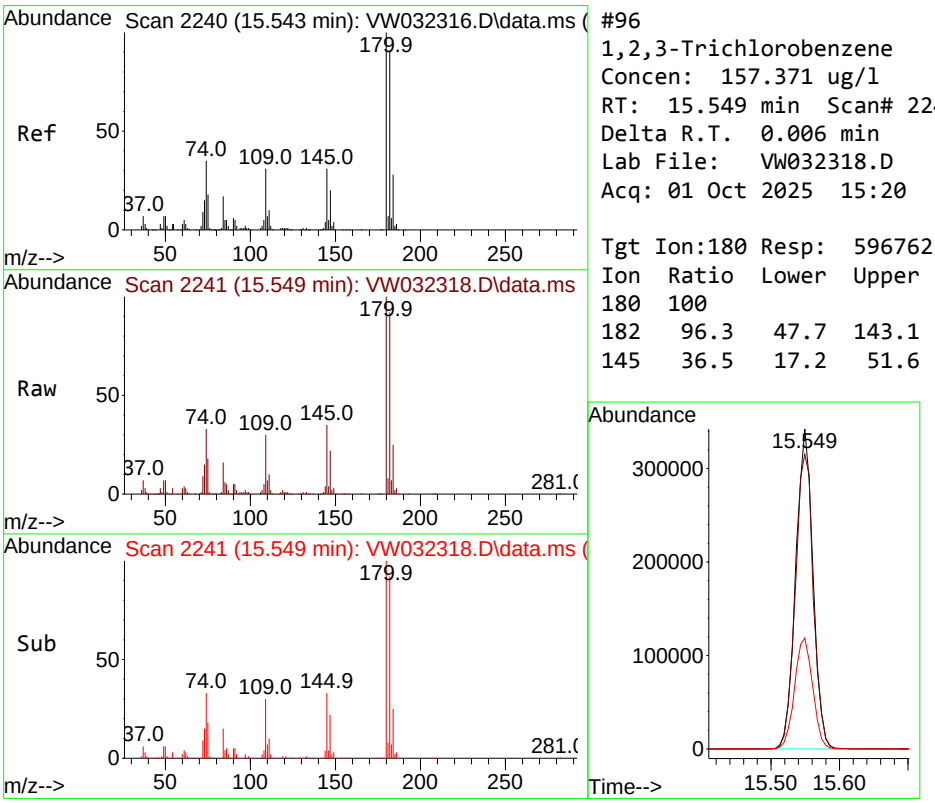
Tgt Ion:128 Resp: 169247

Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	16.0
129	10.8	8.4	12.6

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 157.371 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.006 min
Lab File: VW032318.D
Acq: 01 Oct 2025 15:20

Tgt Ion:180 Resp: 596762

Ion	Ratio	Lower	Upper
180	100		
182	96.3	47.7	143.1
145	36.5	17.2	51.6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032320.D
Acq On : 01 Oct 2025 16:04
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:27:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	286648	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	542900	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	498213	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	235528	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	211714	50.638	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 101.280%			
35) Dibromofluoromethane	7.904	113	172657	49.108	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 98.220%			
50) Toluene-d8	10.325	98	645322	49.731	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 99.460%			
62) 4-Bromofluorobenzene	12.617	95	236491	48.218	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 96.440%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	84688	47.081	ug/l	96
3) Chloromethane	2.259	50	138637	49.950	ug/l	96
4) Vinyl Chloride	2.405	62	159289	48.072	ug/l	97
5) Bromomethane	2.826	94	115275	47.340	ug/l	97
6) Chloroethane	2.972	64	106181	48.536	ug/l	97
7) Trichlorofluoromethane	3.314	101	123819	49.907	ug/l	98
8) Diethyl Ether	3.722	74	106705	49.634	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.094	101	143716	48.296	ug/l	93
10) Methyl Iodide	4.320	142	201132	47.371	ug/l	100
11) Tert butyl alcohol	5.228	59	77891	246.126	ug/l	97
12) 1,1-Dichloroethene	4.082	96	160883	49.800	ug/l	95
13) Acrolein	3.930	56	119840	233.328	ug/l	99
14) Allyl chloride	4.704	41	271835	49.818	ug/l	88
15) Acrylonitrile	5.405	53	288801	258.222	ug/l	100
16) Acetone	4.161	43	264871	228.796	ug/l	100
17) Carbon Disulfide	4.429	76	436417	49.511	ug/l	100
18) Methyl Acetate	4.710	43	179271	54.058	ug/l	96
19) Methyl tert-butyl Ether	5.466	73	326683	51.342	ug/l	95
20) Methylene Chloride	4.954	84	194169	50.746	ug/l	97
21) trans-1,2-Dichloroethene	5.460	96	180820	50.555	ug/l	98
22) Diisopropyl ether	6.344	45	581042	51.202	ug/l	95
23) Vinyl Acetate	6.283	43	1998017	263.598	ug/l	100
24) 1,1-Dichloroethane	6.246	63	344370	49.949	ug/l	99
25) 2-Butanone	7.197	43	399441	253.341	ug/l	97
26) 2,2-Dichloropropane	7.191	77	171137	48.528	ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	218943	50.954	ug/l	94
28) Bromochloromethane	7.533	49	164051	50.575	ug/l	85
29) Tetrahydrofuran	7.551	42	265382	267.648	ug/l	94
30) Chloroform	7.691	83	356459	50.980	ug/l	98
31) Cyclohexane	7.971	56	283574	48.179	ug/l	99
32) 1,1,1-Trichloroethane	7.892	97	247681	49.989	ug/l	98
36) 1,1-Dichloropropene	8.100	75	246414	49.661	ug/l	98
37) Ethyl Acetate	7.276	43	171315	51.871	ug/l	100
38) Carbon Tetrachloride	8.081	117	231677	49.617	ug/l	96
39) Methylcyclohexane	9.343	83	308455	51.537	ug/l	96
40) Benzene	8.337	78	758892	48.794	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032320.D
Acq On : 01 Oct 2025 16:04
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:27:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	101959	57.284	ug/l	#	85
42) 1,2-Dichloroethane	8.416	62	247842	48.701	ug/l		99
43) Isopropyl Acetate	8.435	43	303946	51.877	ug/l		100
44) Trichloroethene	9.105	130	178095	48.904	ug/l		87
45) 1,2-Dichloropropane	9.374	63	191384	49.299	ug/l		97
46) Dibromomethane	9.465	93	118979	49.841	ug/l		94
47) Bromodichloromethane	9.654	83	273884	50.162	ug/l		99
48) Methyl methacrylate	9.441	41	150648	52.884	ug/l	#	91
49) 1,4-Dioxane	9.465	88	34528	1058.229	ug/l		98
51) 4-Methyl-2-Pentanone	10.215	43	878208	258.790	ug/l		100
52) Toluene	10.392	92	484871	50.061	ug/l		95
53) t-1,3-Dichloropropene	10.611	75	271391	51.234	ug/l		100
54) cis-1,3-Dichloropropene	10.075	75	306358	50.209	ug/l		97
55) 1,1,2-Trichloroethane	10.788	97	159106	49.869	ug/l		99
56) Ethyl methacrylate	10.648	69	233853	52.367	ug/l		93
57) 1,3-Dichloropropane	10.934	76	278336	49.394	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	658757	277.181	ug/l		96
59) 2-Hexanone	10.971	43	627586	262.215	ug/l		99
60) Dibromochloromethane	11.136	129	181813	50.187	ug/l		98
61) 1,2-Dibromoethane	11.239	107	154714	49.732	ug/l		99
64) Tetrachloroethene	10.867	164	147899	49.611	ug/l		96
65) Chlorobenzene	11.660	112	535619	48.862	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.733	131	166082	48.644	ug/l		99
67) Ethyl Benzene	11.733	91	922981	50.513	ug/l		100
68) m/p-Xylenes	11.837	106	699490	99.276	ug/l		99
69) o-Xylene	12.166	106	332905	50.523	ug/l		100
70) Styrene	12.178	104	594393	51.667	ug/l		97
71) Bromoform	12.349	173	100214	51.207	ug/l	#	97
73) Isopropylbenzene	12.465	105	839135	52.076	ug/l		100
74) N-amyl acetate	12.269	43	276033	53.697	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.715	83	203339	50.822	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	157491m	50.813	ug/l		
77) Bromobenzene	12.745	156	196776	50.659	ug/l		87
78) n-propylbenzene	12.800	91	1039770	51.657	ug/l		98
79) 2-Chlorotoluene	12.891	91	631196	51.287	ug/l		97
80) 1,3,5-Trimethylbenzene	12.940	105	729628	52.365	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.513	75	66508	54.360	ug/l		91
82) 4-Chlorotoluene	12.989	91	663842	50.734	ug/l		100
83) tert-Butylbenzene	13.202	119	611748	53.510	ug/l		97
84) 1,2,4-Trimethylbenzene	13.245	105	729966	51.522	ug/l		99
85) sec-Butylbenzene	13.379	105	904532	51.774	ug/l		99
86) p-Isopropyltoluene	13.495	119	763912	52.697	ug/l		99
87) 1,3-Dichlorobenzene	13.501	146	397346	50.518	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	380433	48.372	ug/l		97
89) n-Butylbenzene	13.818	91	748452	52.880	ug/l		99
90) Hexachloroethane	14.086	117	134862	51.903	ug/l		94
91) 1,2-Dichlorobenzene	13.867	146	347039	48.810	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.476	75	36524	52.139	ug/l		88
93) 1,2,4-Trichlorobenzene	15.129	180	218198	51.178	ug/l		93
94) Hexachlorobutadiene	15.232	225	90599	46.478	ug/l		87
95) Naphthalene	15.360	128	572147	55.881	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	206623	51.417	ug/l		98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032320.D
Acq On : 01 Oct 2025 16:04
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

Quant Time: Oct 02 21:27:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

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

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

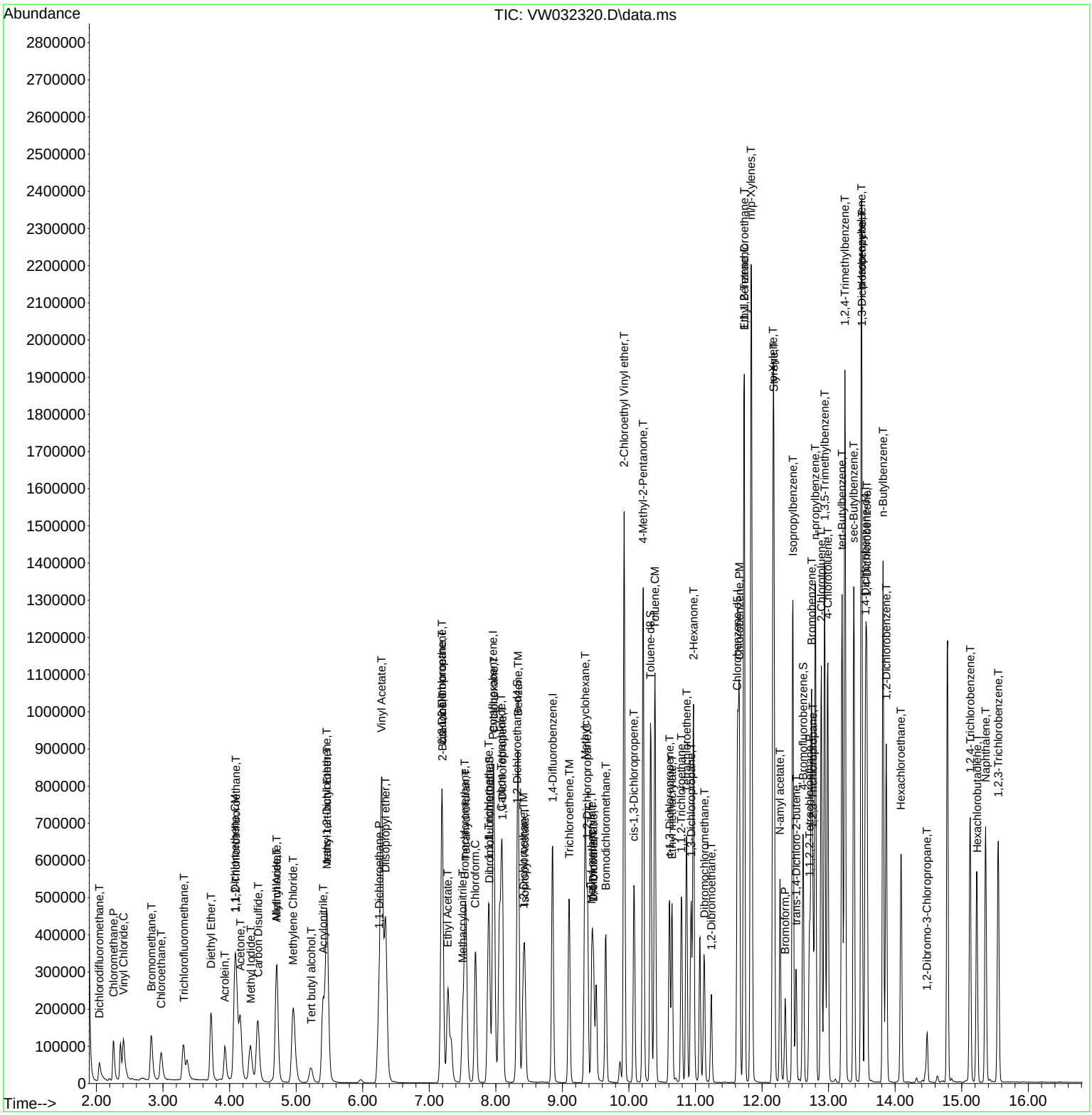
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032320.D
Acq On : 01 Oct 2025 16:04
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

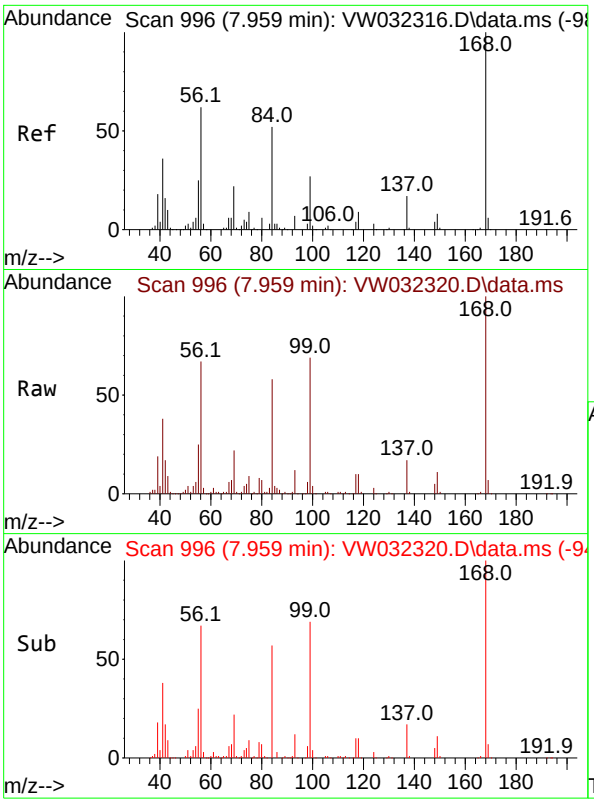
Quant Time: Oct 02 21:27:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

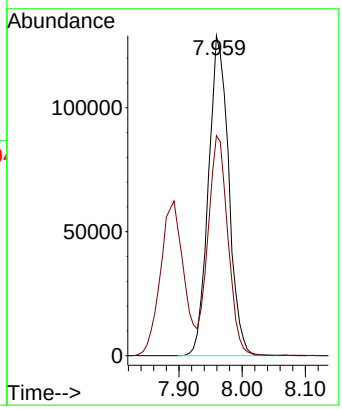




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:168 Resp: 28664

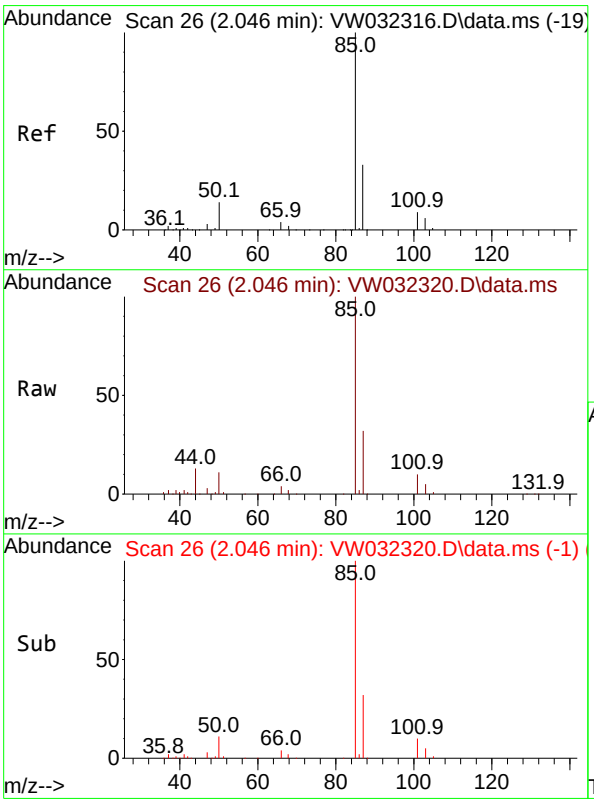
Ion	Ratio	Lower	Upper
168	100		
99	68.6	49.3	73.9



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

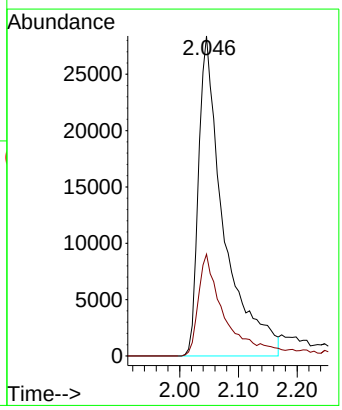
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

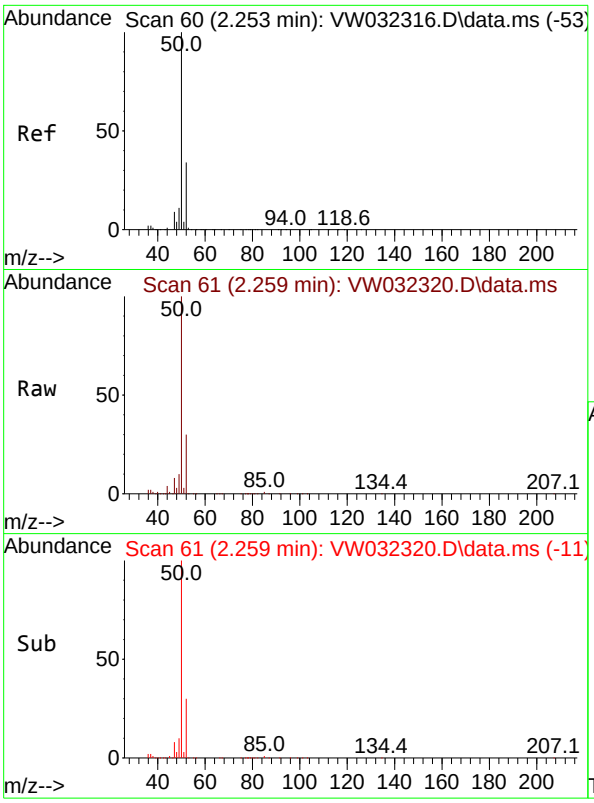


#2
Dichlorodifluoromethane
Concen: 47.081 ug/l
RT: 2.046 min Scan# 26
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 85 Resp: 84688

Ion	Ratio	Lower	Upper
85	100		
87	31.8	17.2	51.6

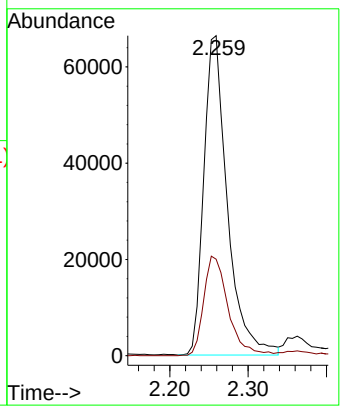




#3
Chloromethane
Concen: 49.950 ug/l
RT: 2.259 min Scan# 6
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 50 Resp: 13863

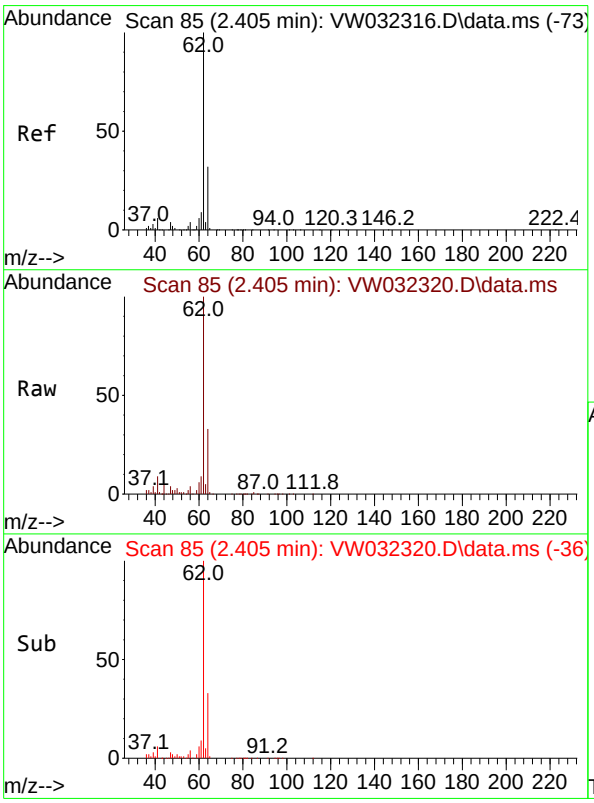
Ion	Ratio	Lower	Upper
50	100		
52	30.2	26.1	39.1



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

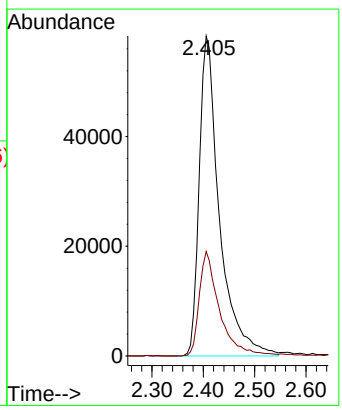
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

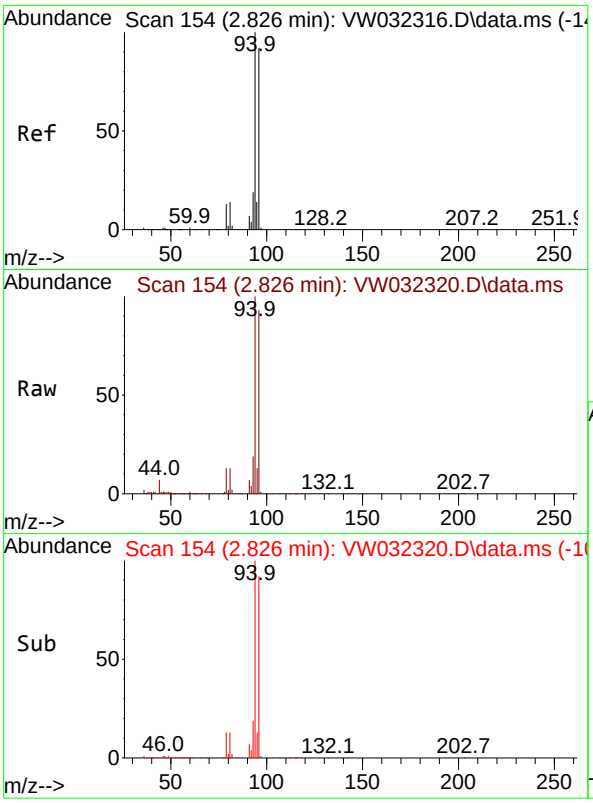


#4
Vinyl Chloride
Concen: 48.072 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 62 Resp: 159289

Ion	Ratio	Lower	Upper
62	100		
64	32.7	24.8	37.2

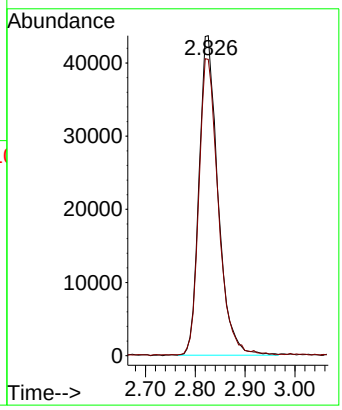




#5
Bromomethane
Concen: 47.340 ug/l
RT: 2.826 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 94 Resp: 11527

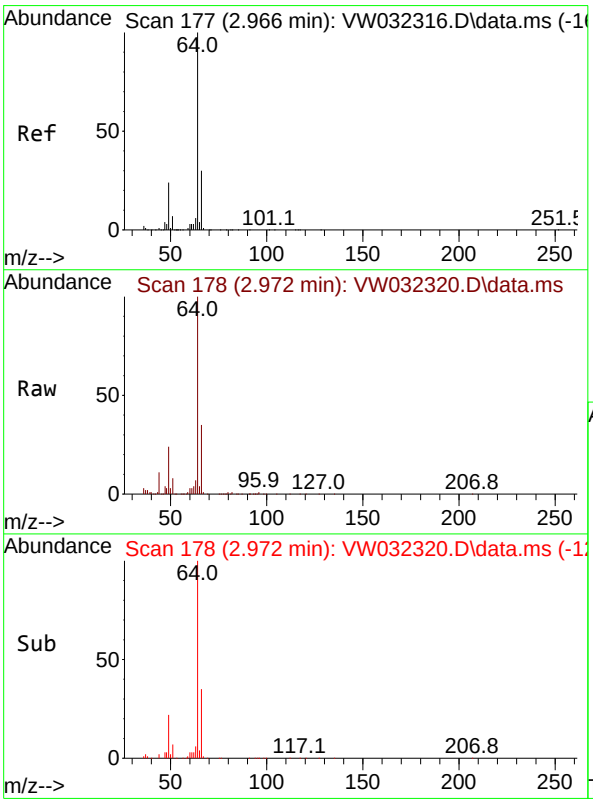
Ion	Ratio	Lower	Upper
94	100		
96	92.5	76.6	115.0



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

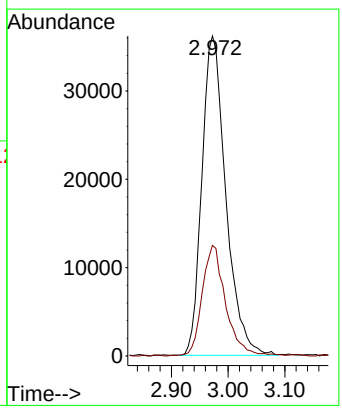
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

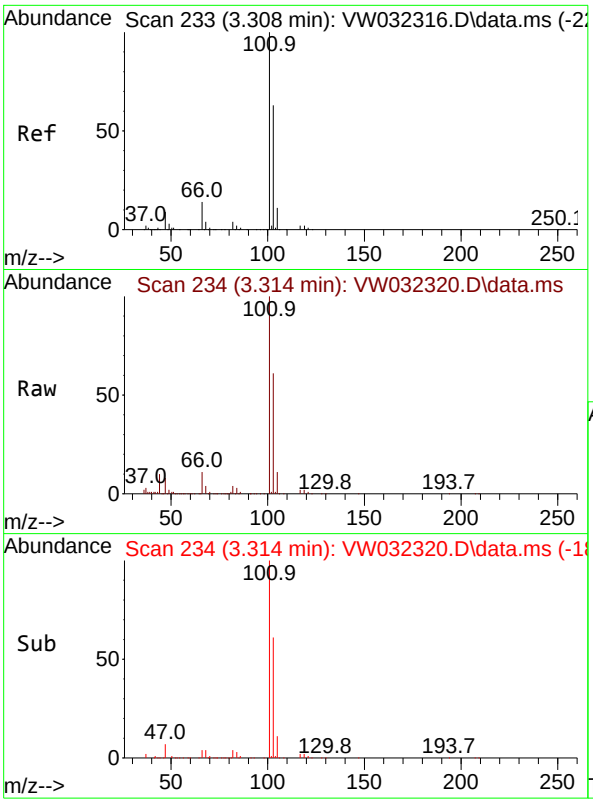


#6
Chloroethane
Concen: 48.536 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 64 Resp: 106181

Ion	Ratio	Lower	Upper
64	100		
66	34.4	26.2	39.4

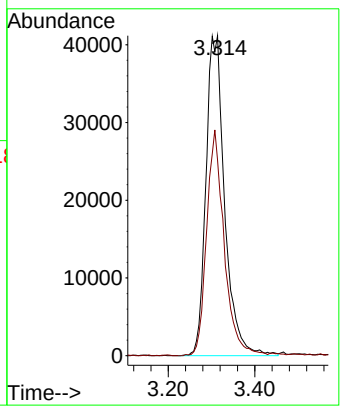




#7
Trichlorofluoromethane
Concen: 49.907 ug/l
RT: 3.314 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:101 Resp: 12381

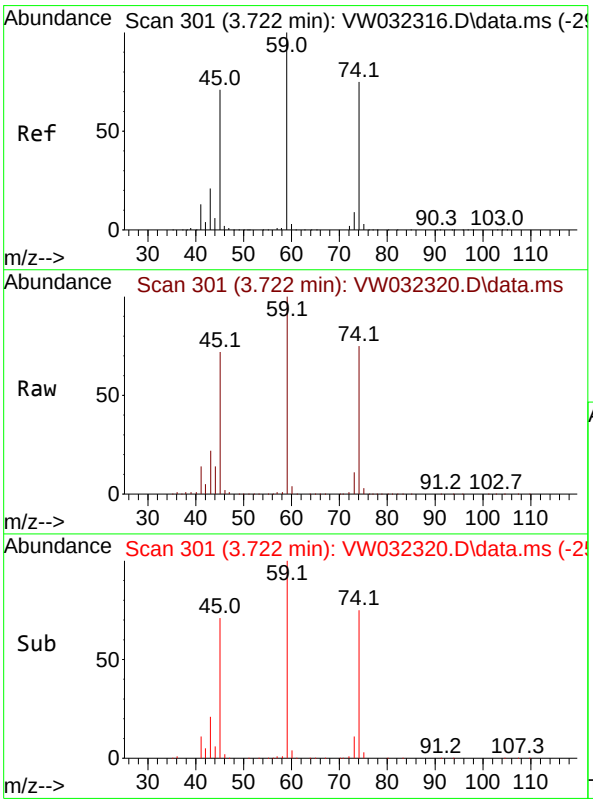
Ion	Ratio	Lower	Upper
101	100		
103	61.1	47.8	71.8



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

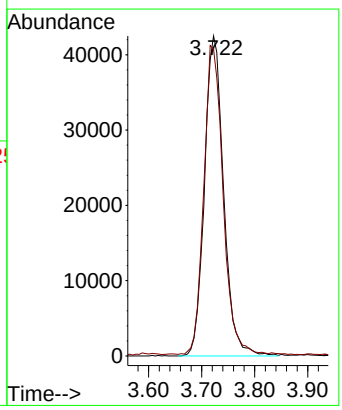
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

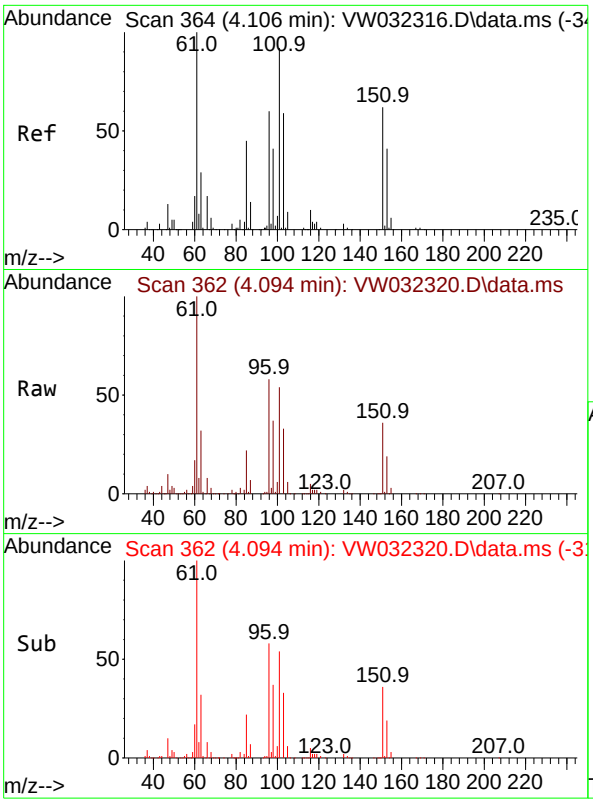


#8
Diethyl Ether
Concen: 49.634 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 74 Resp: 106705

Ion	Ratio	Lower	Upper
74	100		
45	96.8	43.1	129.4





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.296 ug/l
RT: 4.094 min Scan# 3
Delta R.T. -0.012 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

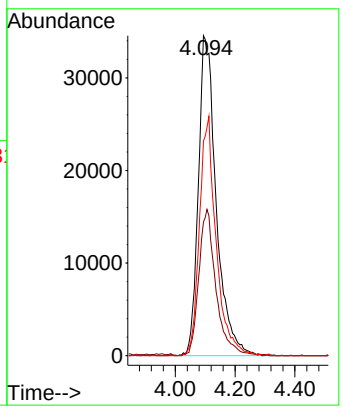
Tgt Ion:101 Resp: 14371

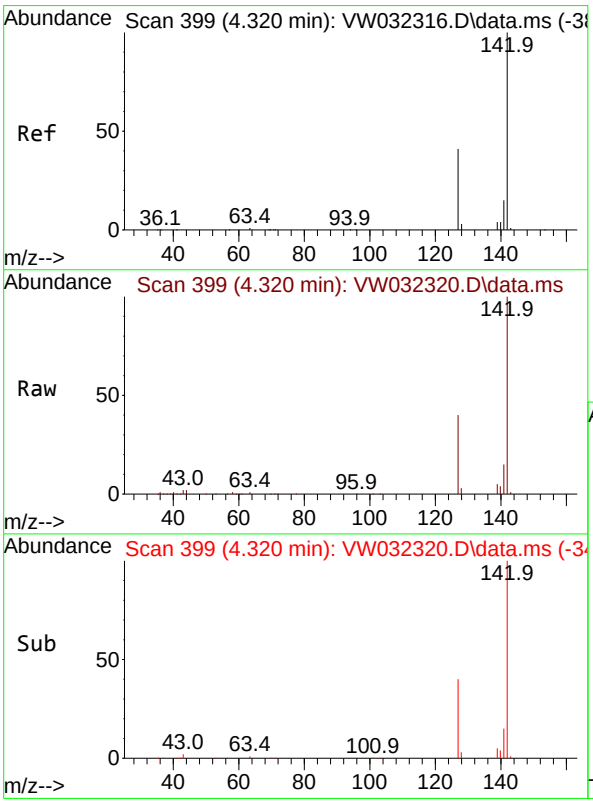
Ion	Ratio	Lower	Upper
101	100		
85	43.7	37.1	55.7
151	69.6	61.5	92.3

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

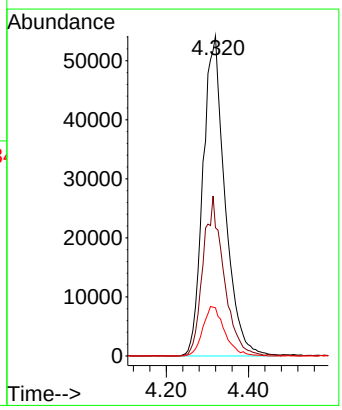


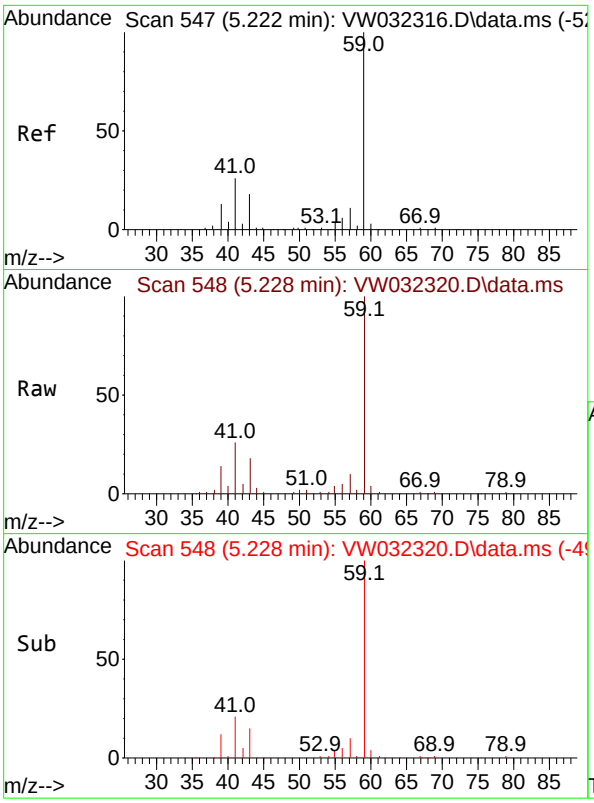


#10
Methyl Iodide
Concen: 47.371 ug/l
RT: 4.320 min Scan# 399
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:142 Resp: 201132

Ion	Ratio	Lower	Upper
142	100		
127	47.4	38.2	57.2
141	15.3	12.2	18.2

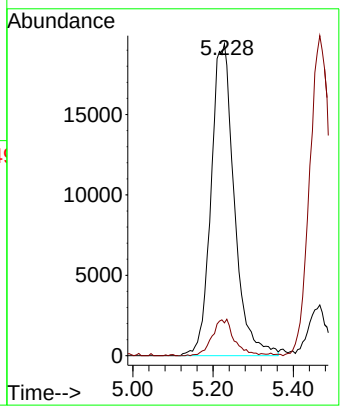




#11
Tert butyl alcohol
Concen: 246.126 ug/l
RT: 5.228 min Scan# 54
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 59 Resp: 7789

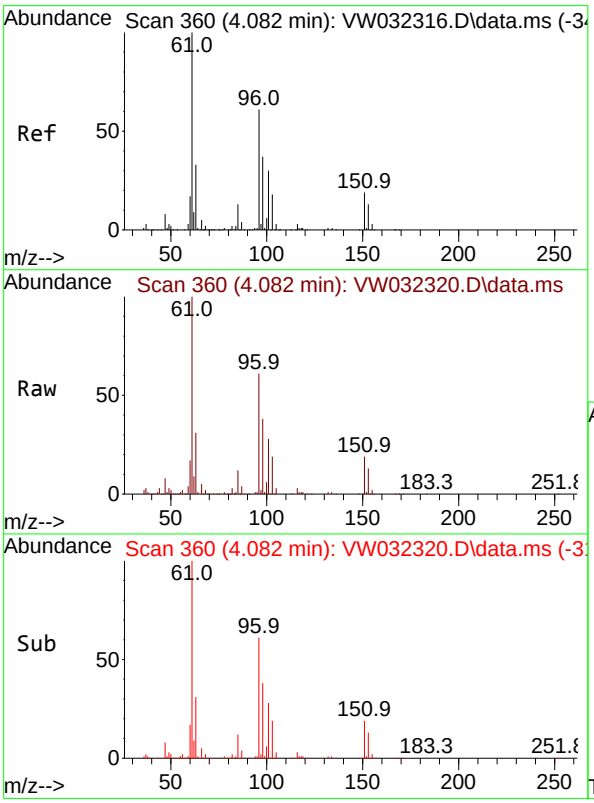
Ion	Ratio	Lower	Upper
59	100		
57	11.0	9.8	14.6



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations APPROVED

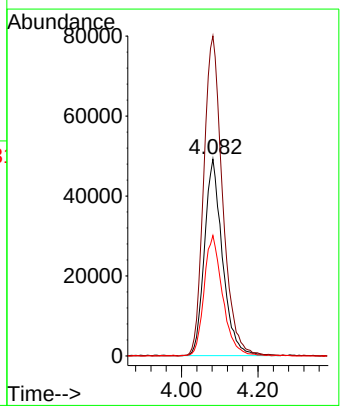
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

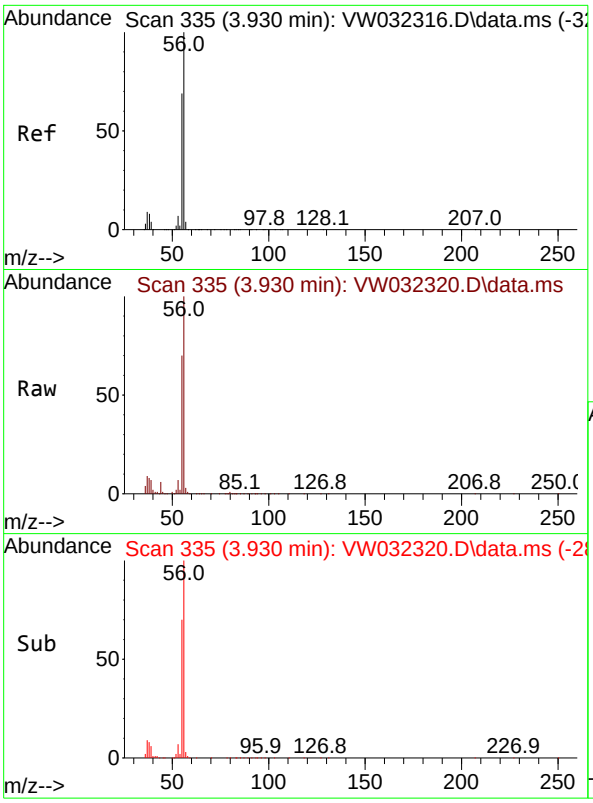


#12
1,1-Dichloroethene
Concen: 49.800 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 96 Resp: 160883

Ion	Ratio	Lower	Upper
96	100		
61	162.9	123.0	184.4
98	61.4	48.5	72.7

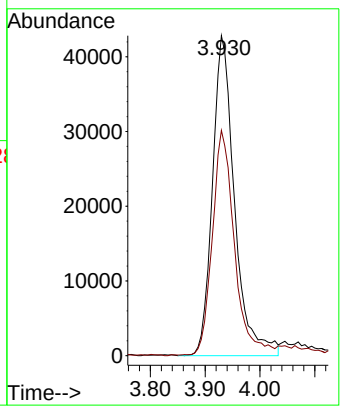




#13
Acrolein
Concen: 233.328 ug/l
RT: 3.930 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 56 Resp: 11984

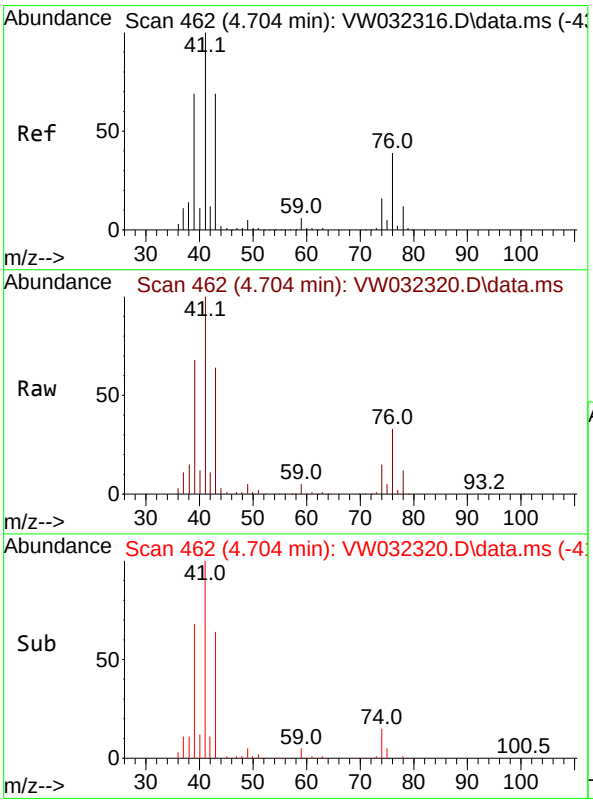
Ion	Ratio	Lower	Upper
56	100		
55	70.0	56.4	84.6



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

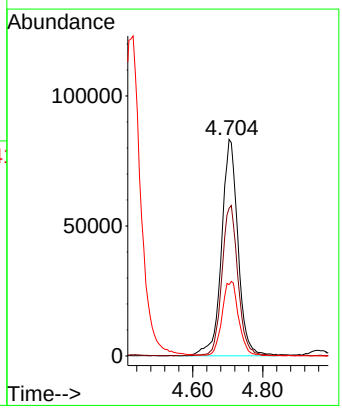
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

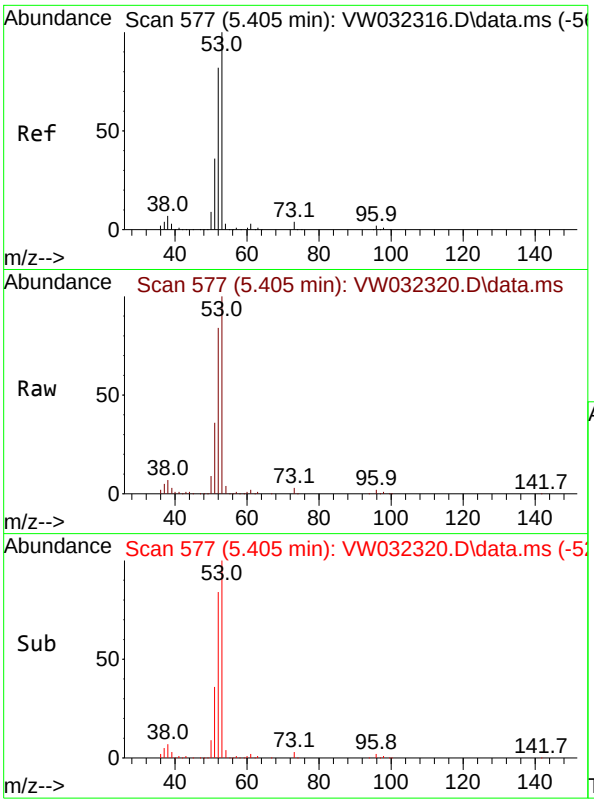


#14
Allyl chloride
Concen: 49.818 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 41 Resp: 271835

Ion	Ratio	Lower	Upper
41	100		
39	67.6	64.1	96.1
76	34.3	31.4	47.2

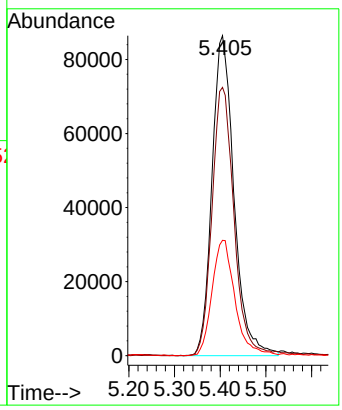




#15
Acrylonitrile
Concen: 258.222 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 53 Resp: 28880

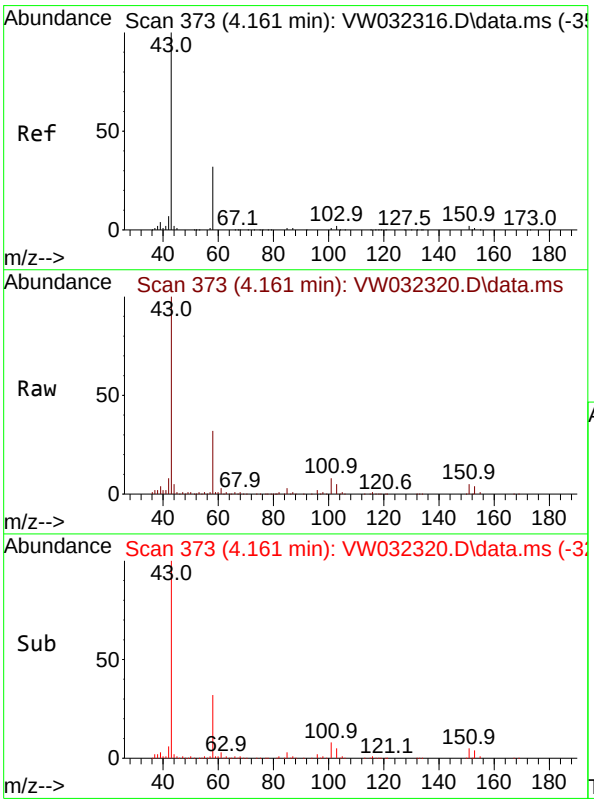
Ion	Ratio	Lower	Upper
53	100		
52	84.6	67.4	101.2
51	37.6	30.3	45.5



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

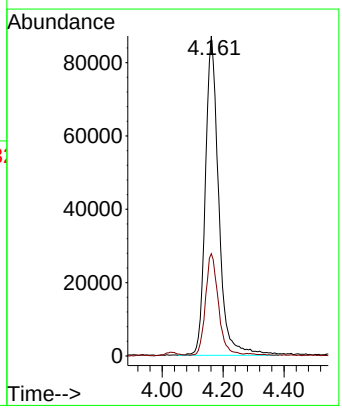
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

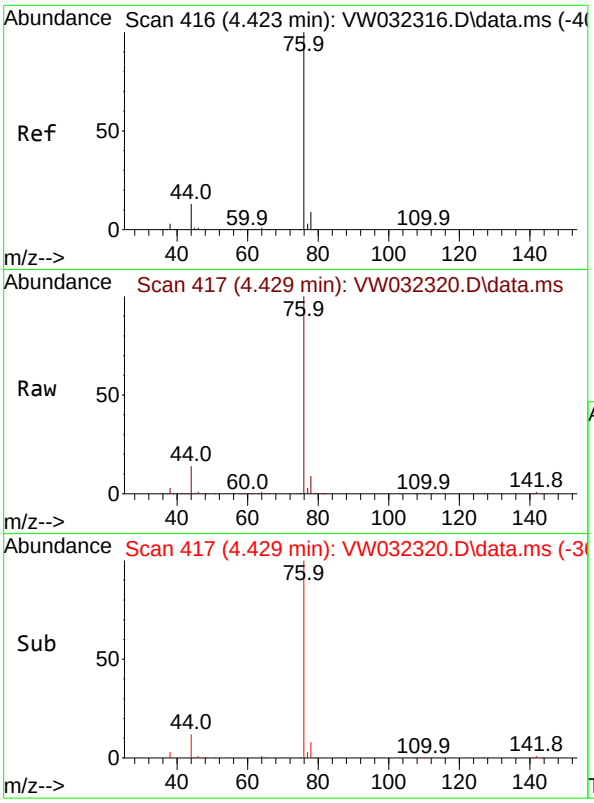


#16
Acetone
Concen: 228.796 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 43 Resp: 264871

Ion	Ratio	Lower	Upper
43	100		
58	31.8	25.3	37.9

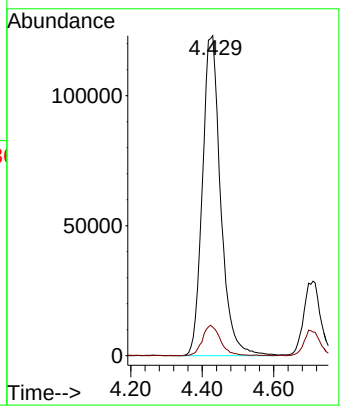




#17
Carbon Disulfide
Concen: 49.511 ug/l
RT: 4.429 min Scan# 4
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 76 Resp: 43641

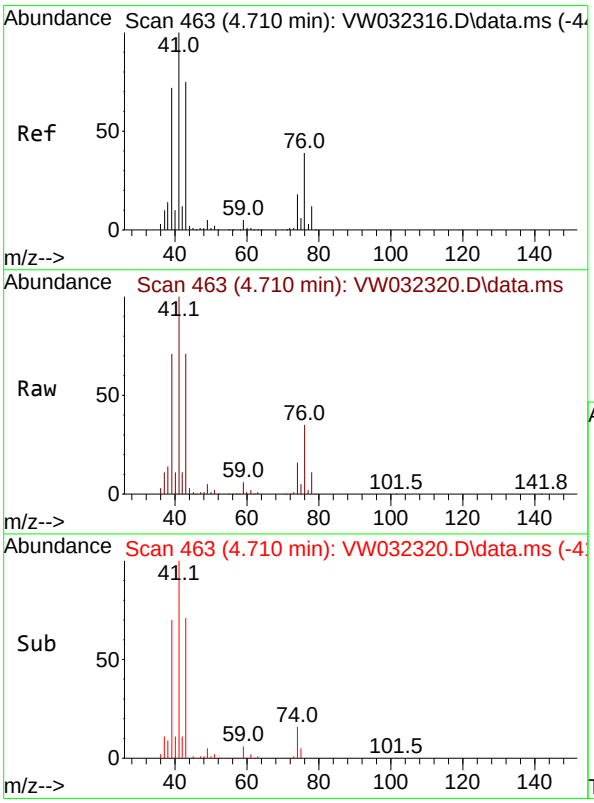
Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.6



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

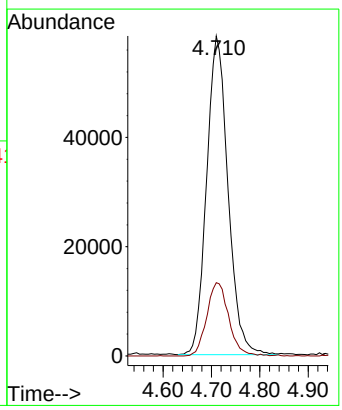
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

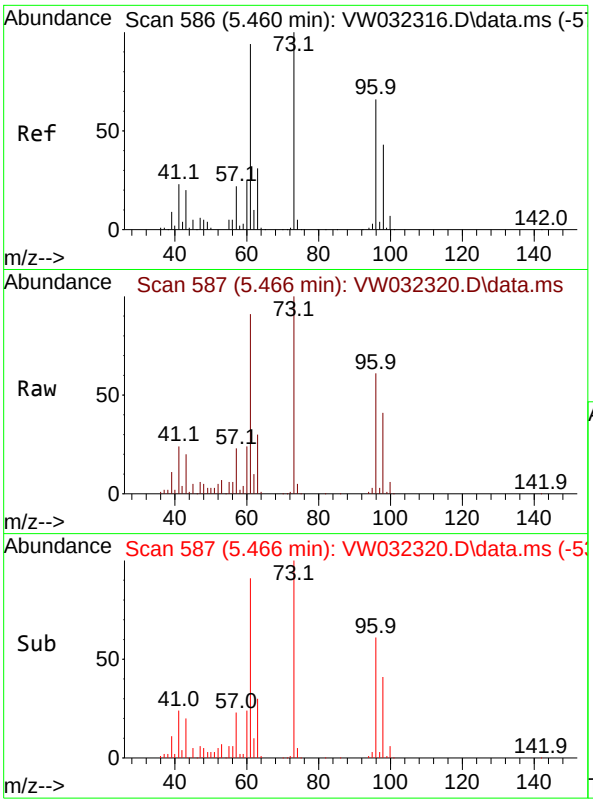


#18
Methyl Acetate
Concen: 54.058 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 43 Resp: 179271

Ion	Ratio	Lower	Upper
43	100		
74	23.4	20.2	30.4

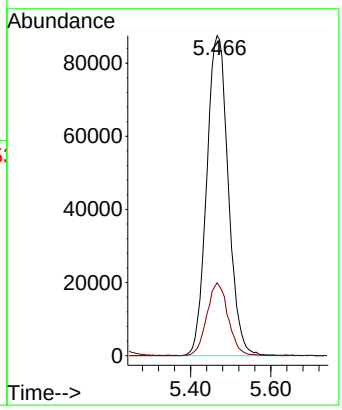




#19
Methyl tert-butyl Ether
Concen: 51.342 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 73 Resp: 32668

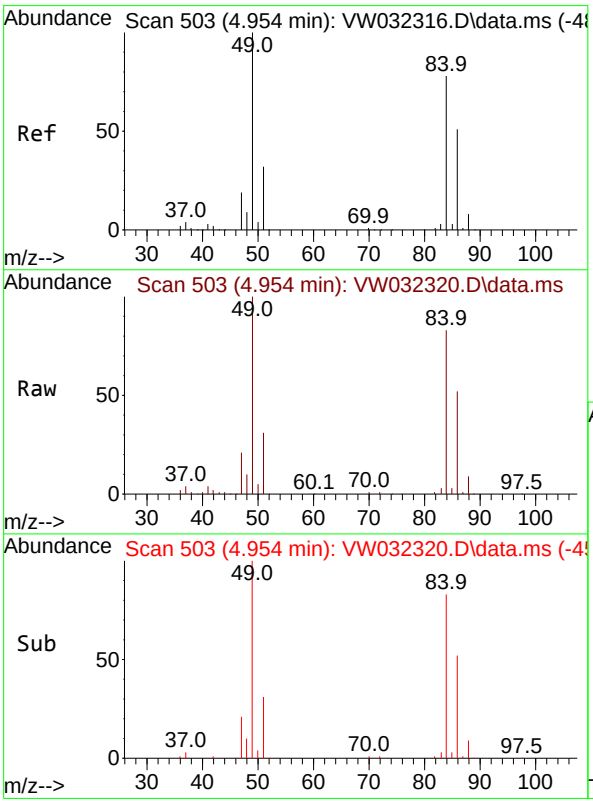
Ion	Ratio	Lower	Upper
73	100		
57	22.7	16.2	24.4



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations APPROVED

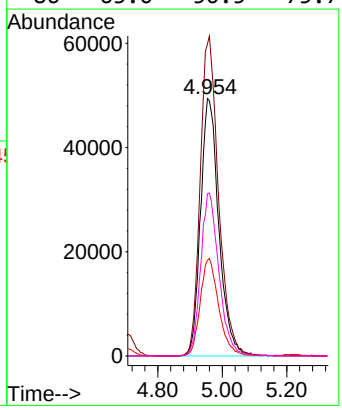
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

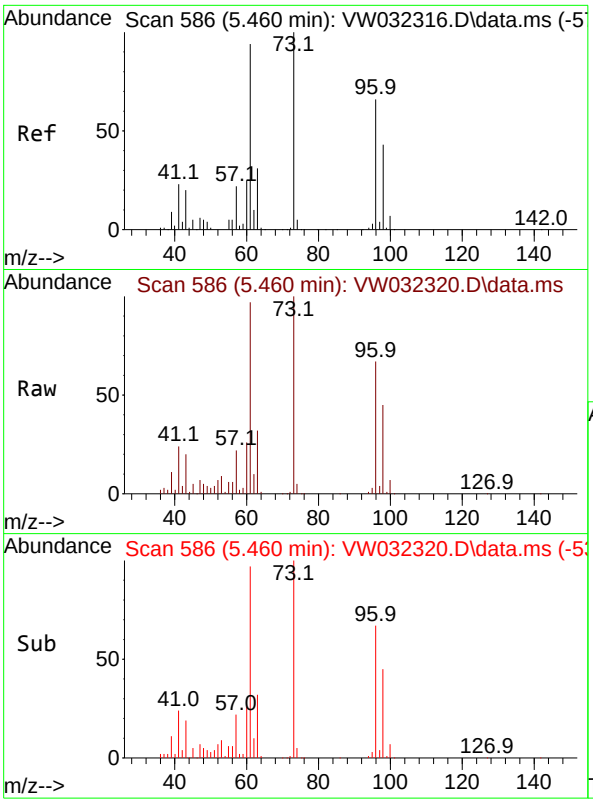


#20
Methylene Chloride
Concen: 50.746 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 84 Resp: 194169

Ion	Ratio	Lower	Upper
84	100		
49	121.2	92.2	138.4
51	37.1	31.0	46.6
86	63.0	50.5	75.7

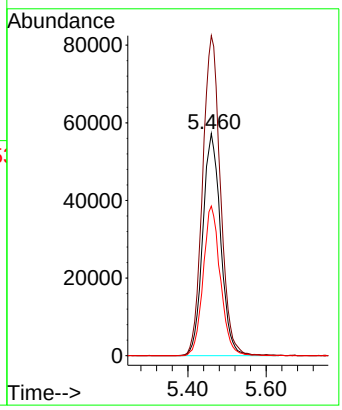




#21
trans-1,2-Dichloroethene
Concen: 50.555 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 96 Resp: 18082

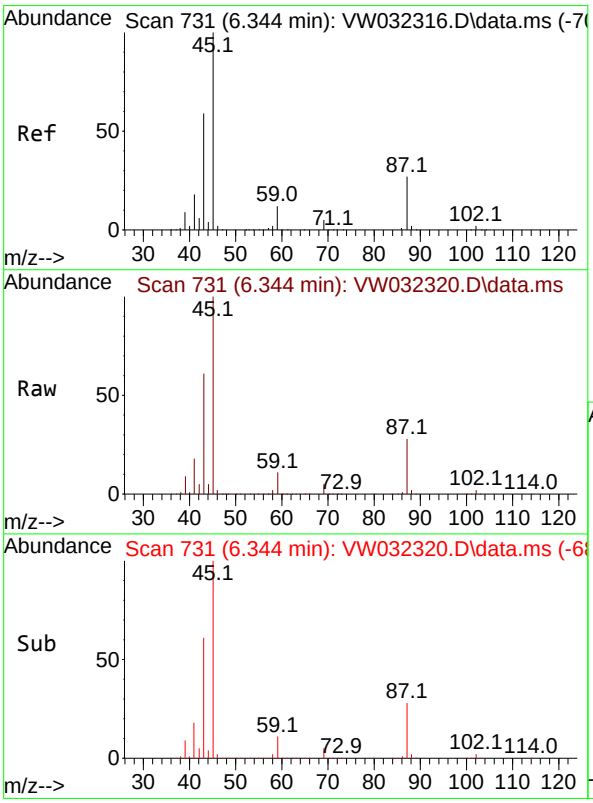
Ion	Ratio	Lower	Upper
96	100		
61	144.0	112.5	168.7
98	67.4	54.2	81.4



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

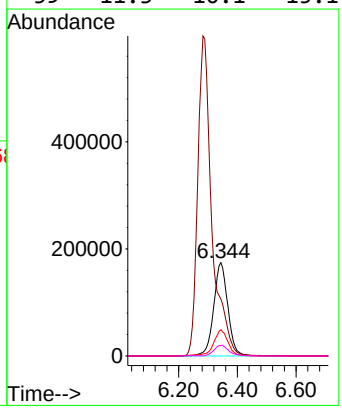
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

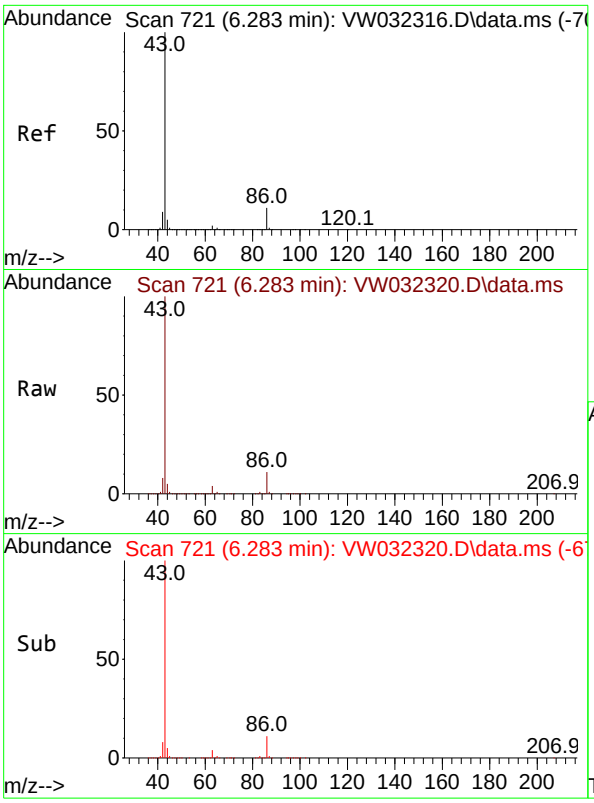


#22
Diisopropyl ether
Concen: 51.202 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 45 Resp: 581042

Ion	Ratio	Lower	Upper
45	100		
43	60.9	51.4	77.2
87	28.2	25.9	38.9
59	11.3	10.1	15.1





#23
Vinyl Acetate
Concen: 263.598 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

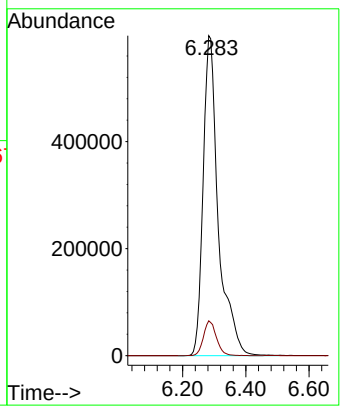
Tgt Ion: 43 Resp: 199801

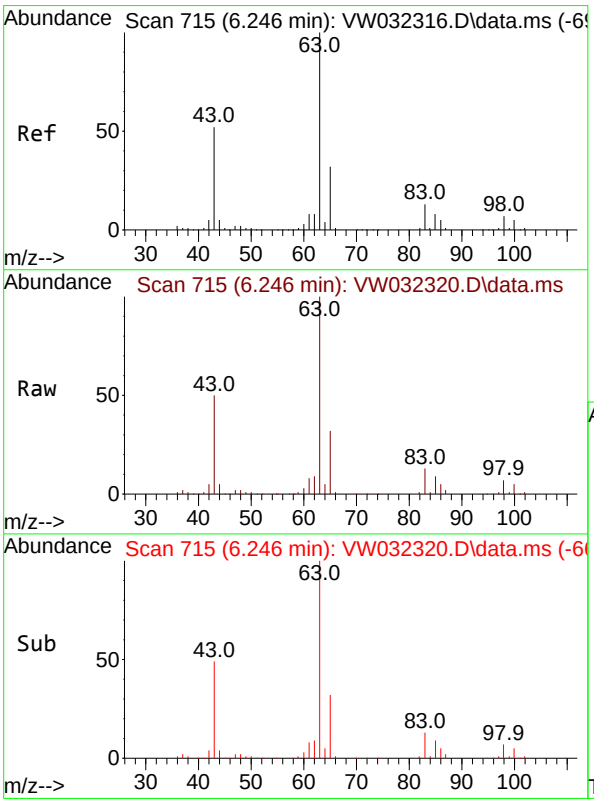
Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.8	13.2

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

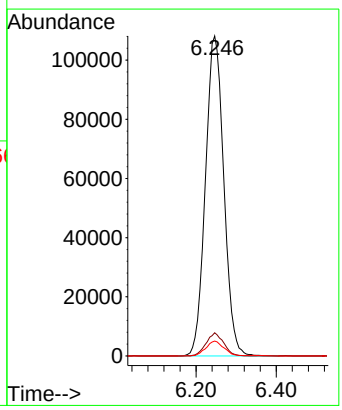


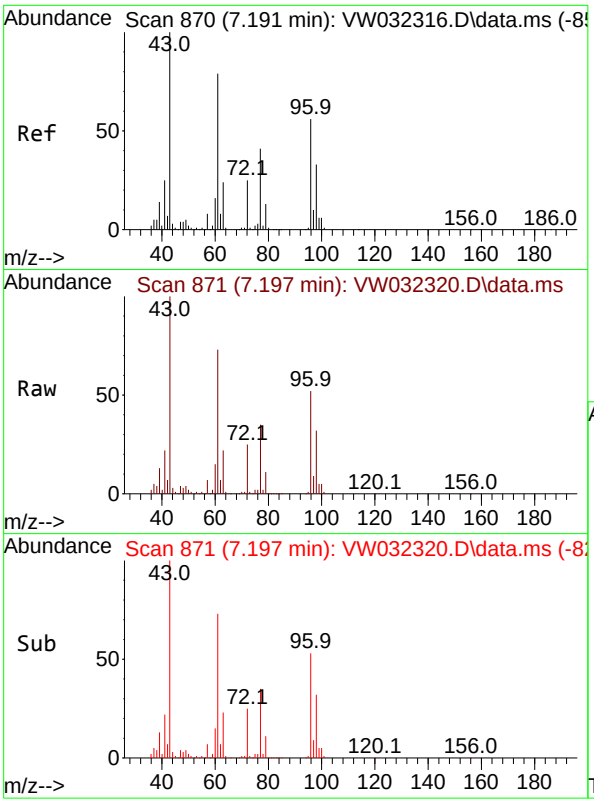


#24
1,1-Dichloroethane
Concen: 49.949 ug/l
RT: 6.246 min Scan# 715
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 63 Resp: 344370

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.8	11.2
100	4.7	2.5	7.5

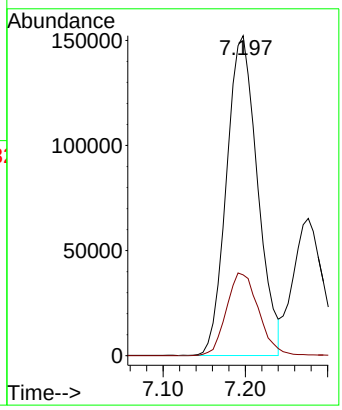




#25
2-Butanone
Concen: 253.341 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 43 Resp: 39944

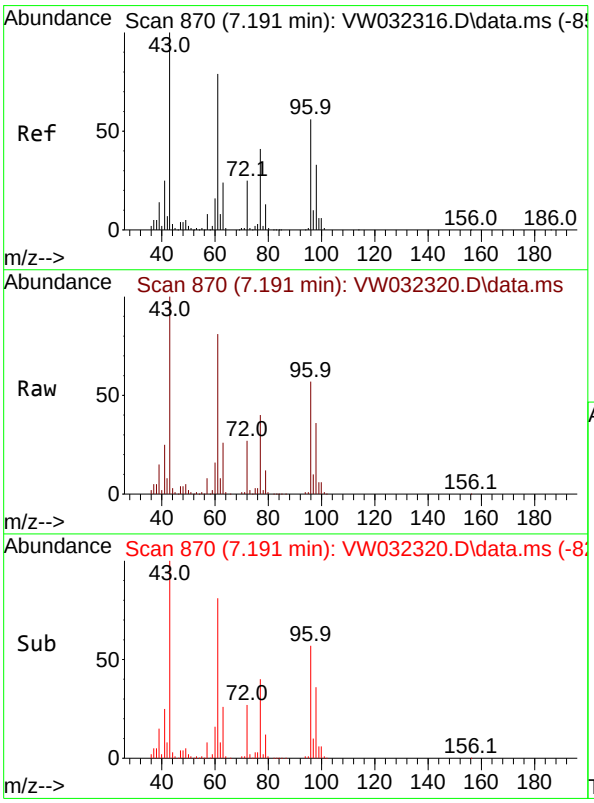
Ion	Ratio	Lower	Upper
43	100		
72	25.3	21.4	32.2



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

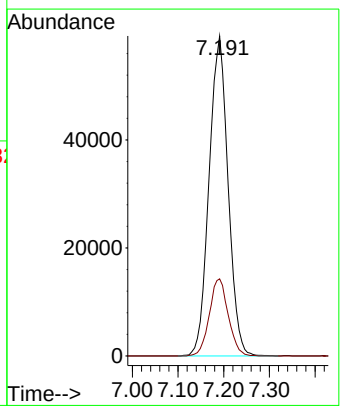
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

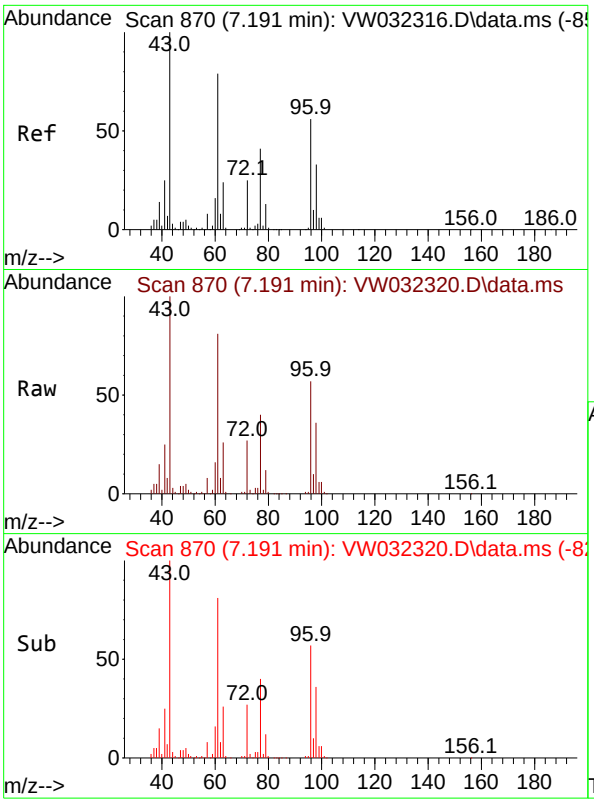


#26
2,2-Dichloropropane
Concen: 48.528 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 77 Resp: 171137

Ion	Ratio	Lower	Upper
77	100		
97	24.0	11.9	35.5

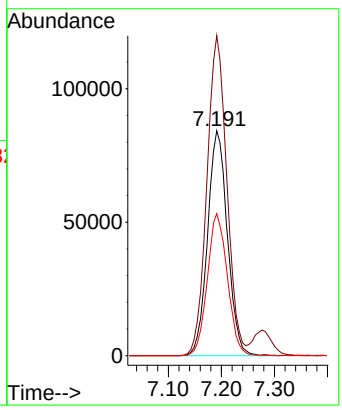




#27
cis-1,2-Dichloroethene
Concen: 50.954 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 96 Resp: 21894

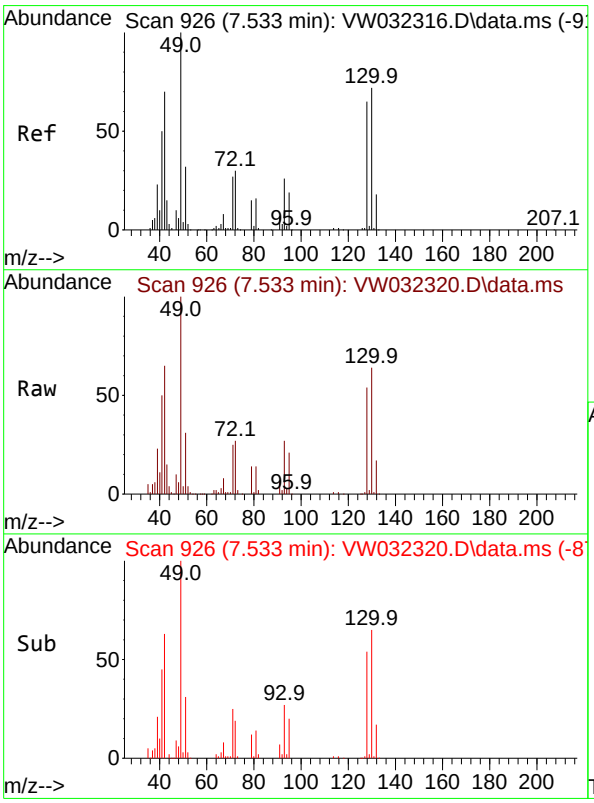
Ion	Ratio	Lower	Upper
96	100		
61	143.0	0.0	268.0
98	63.9	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

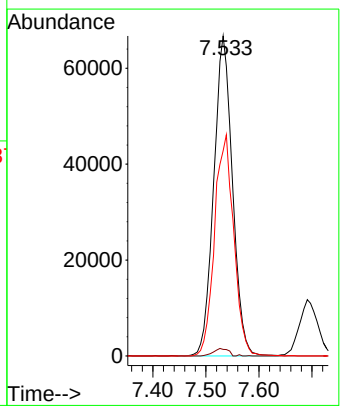
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

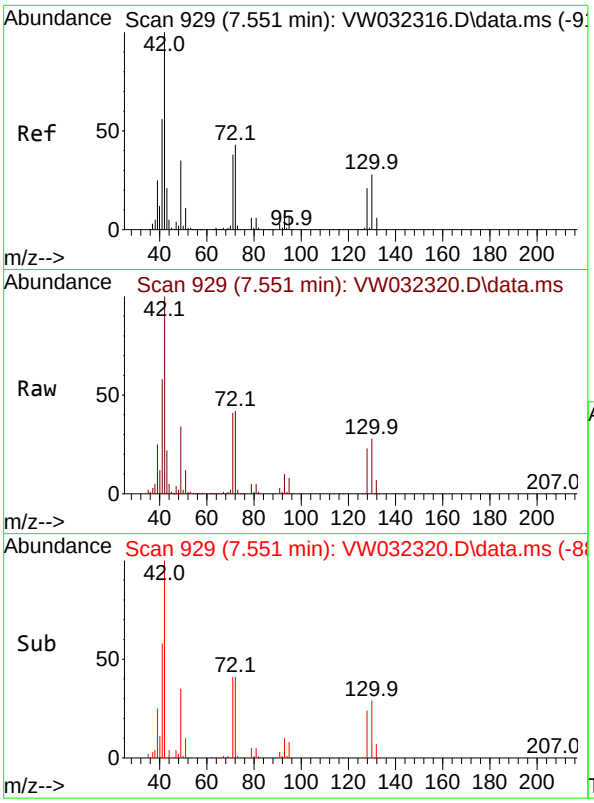


#28
Bromochloromethane
Concen: 50.575 ug/l
RT: 7.533 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 49 Resp: 164051

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	4.2
130	70.8	67.5	101.3





#29
Tetrahydrofuran
Concen: 267.648 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

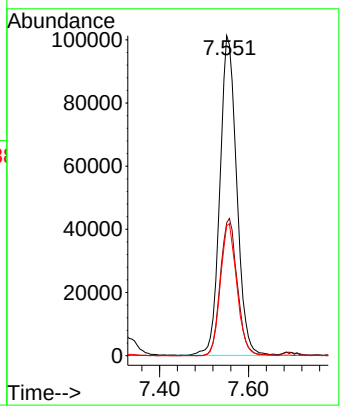
Tgt Ion: 42 Resp: 26538

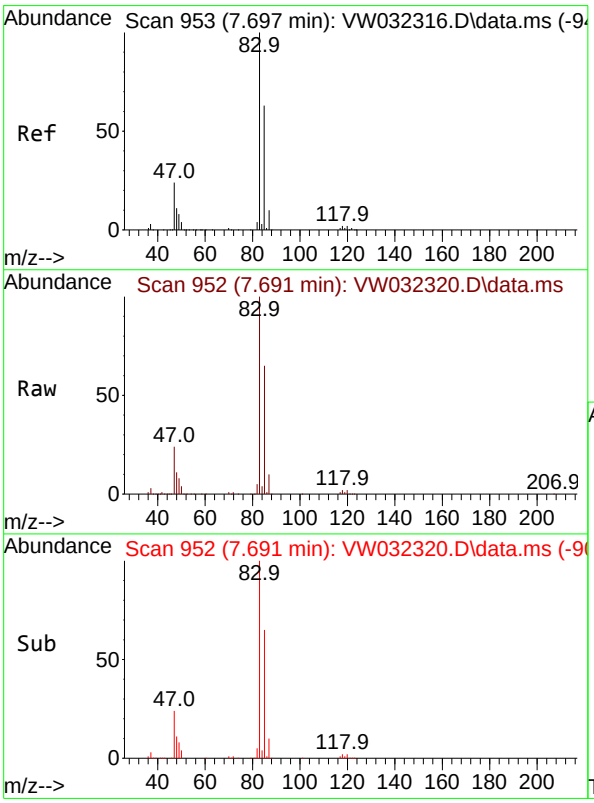
Ion	Ratio	Lower	Upper
42	100		
72	42.9	37.4	56.2
71	40.4	36.0	54.0

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

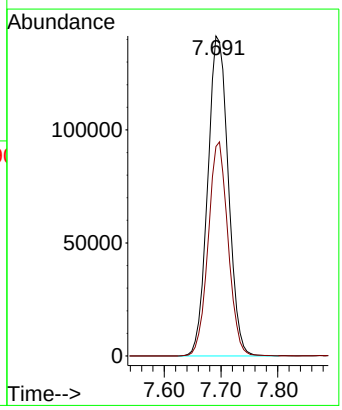


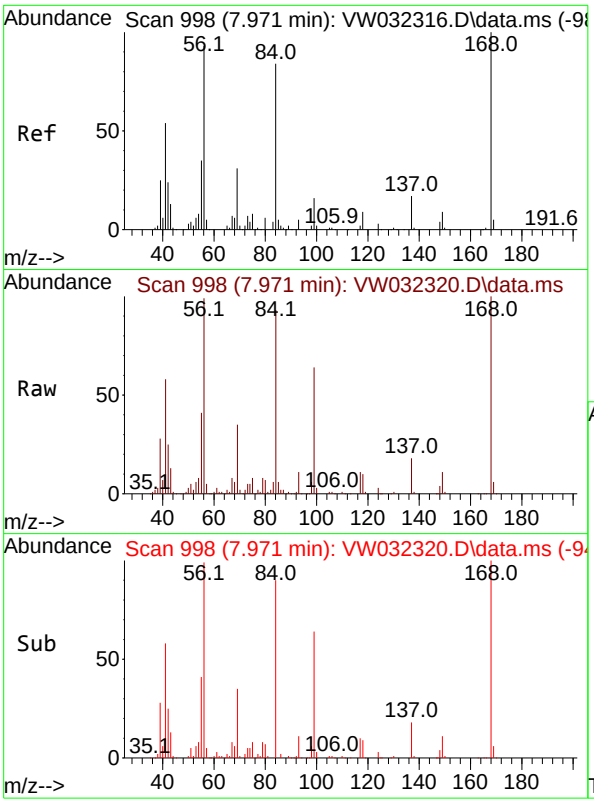


#30
Chloroform
Concen: 50.980 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 83 Resp: 356459

Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.2	76.8

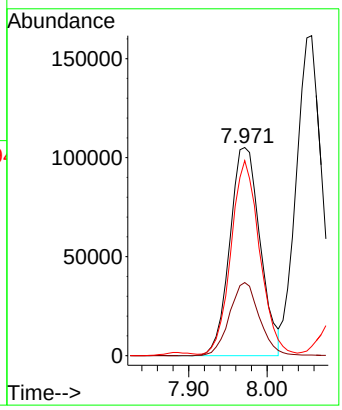




#31
Cyclohexane
Concen: 48.179 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 56 Resp: 28357

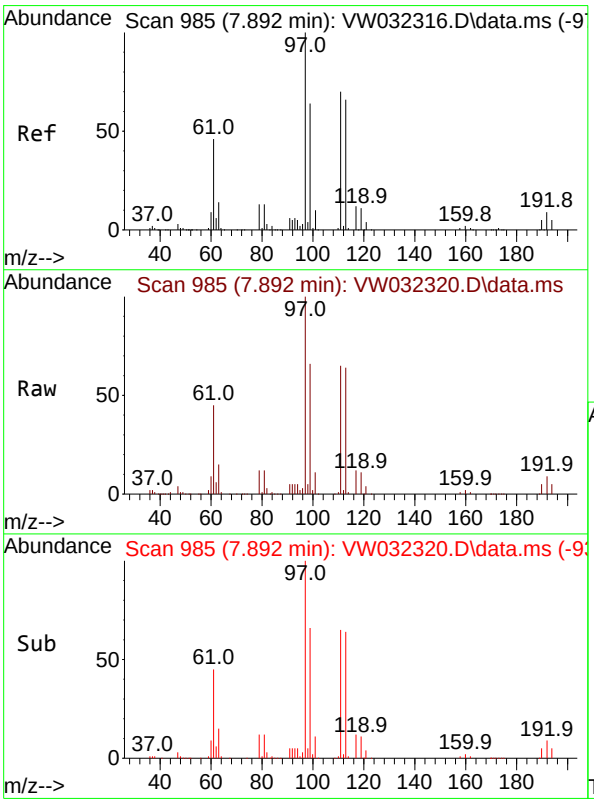
Ion	Ratio	Lower	Upper
56	100		
69	35.2	27.7	41.5
84	92.2	74.6	112.0



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations APPROVED

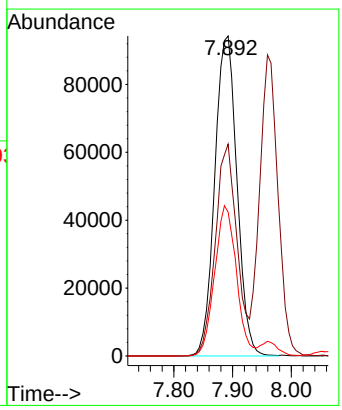
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

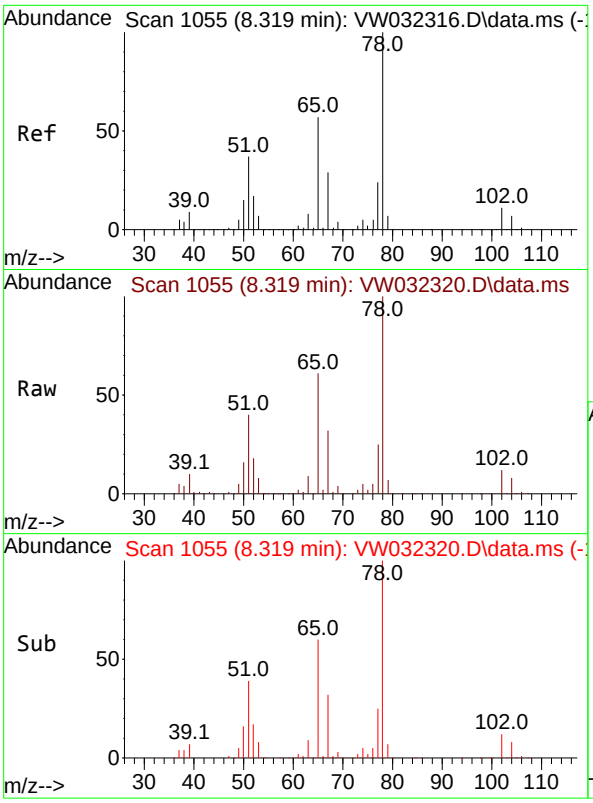


#32
1,1,1-Trichloroethane
Concen: 49.989 ug/l
RT: 7.892 min Scan# 985
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 97 Resp: 247681

Ion	Ratio	Lower	Upper
97	100		
99	65.0	50.9	76.3
61	46.2	36.2	54.4

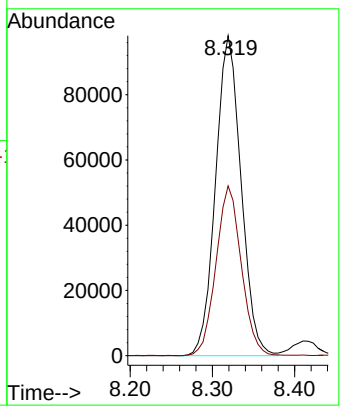




#33
1,2-Dichloroethane-d4
Concen: 50.638 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 65 Resp: 21171

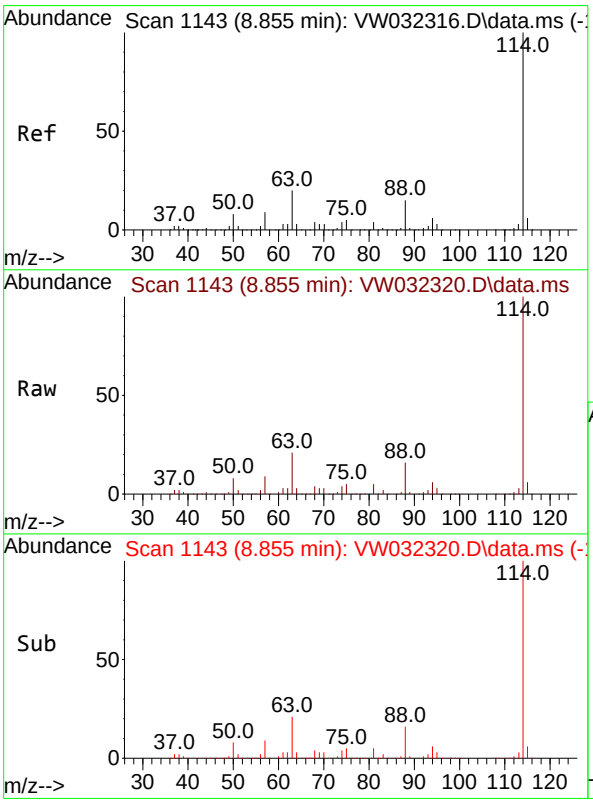
Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	99.6



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

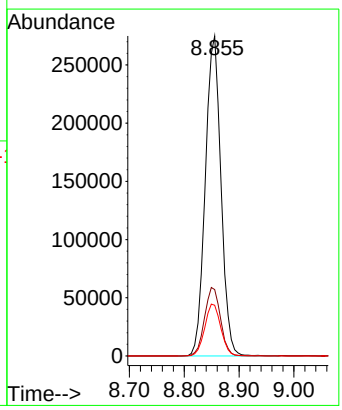
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

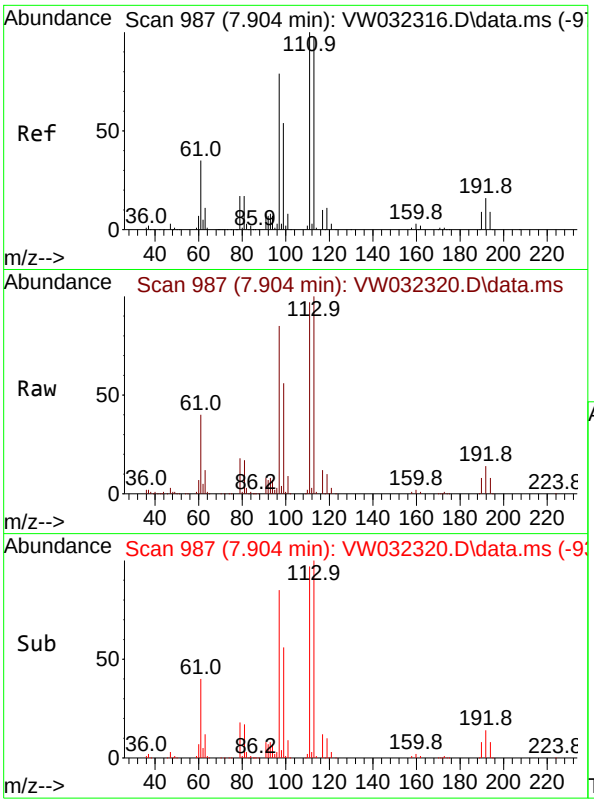


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:114 Resp: 542900

Ion	Ratio	Lower	Upper
114	100		
63	20.8	0.0	40.4
88	15.9	0.0	32.0

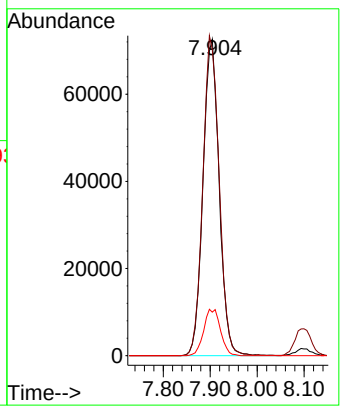




#35
Dibromofluoromethane
Concen: 49.108 ug/l
RT: 7.904 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:113 Resp: 17265

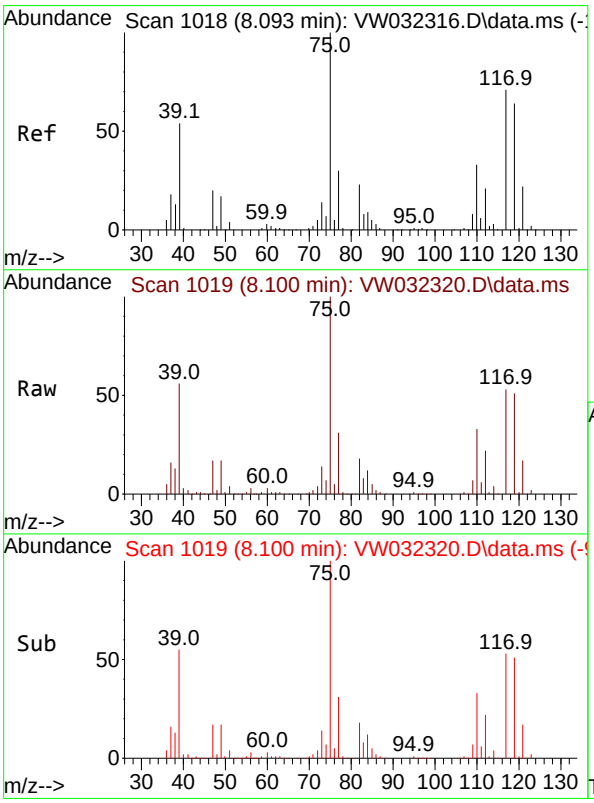
Ion	Ratio	Lower	Upper
113	100		
111	102.1	83.9	125.9
192	15.3	14.6	21.8



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

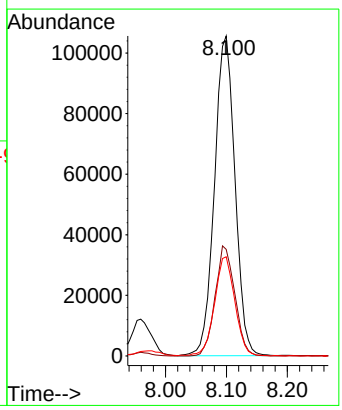
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

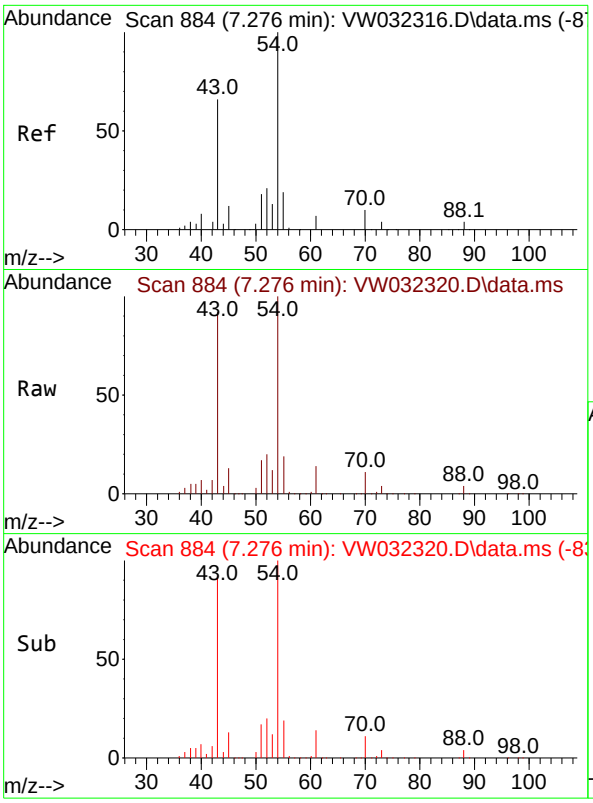


#36
1,1-Dichloropropene
Concen: 49.661 ug/l
RT: 8.100 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 75 Resp: 246414

Ion	Ratio	Lower	Upper
75	100		
110	33.2	17.5	52.5
77	30.9	24.1	36.1





#37
Ethyl Acetate
Concen: 51.871 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

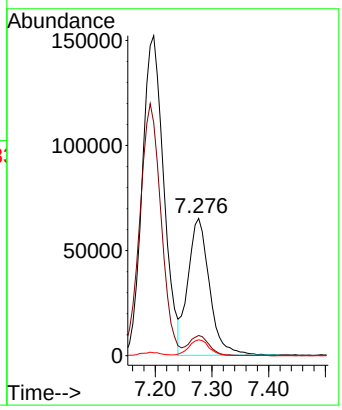
Tgt Ion: 43 Resp: 17131

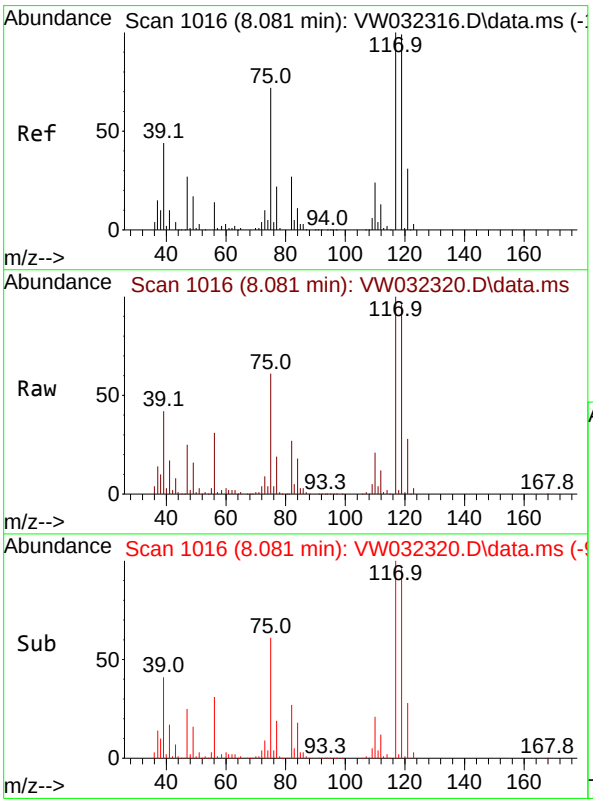
Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.3	16.9
70	11.0	8.9	13.3

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

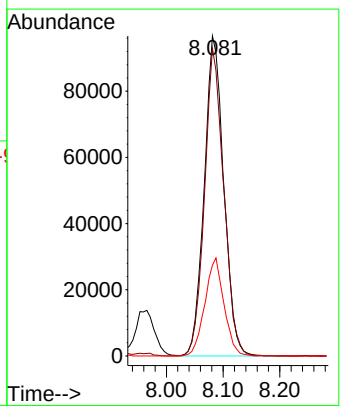


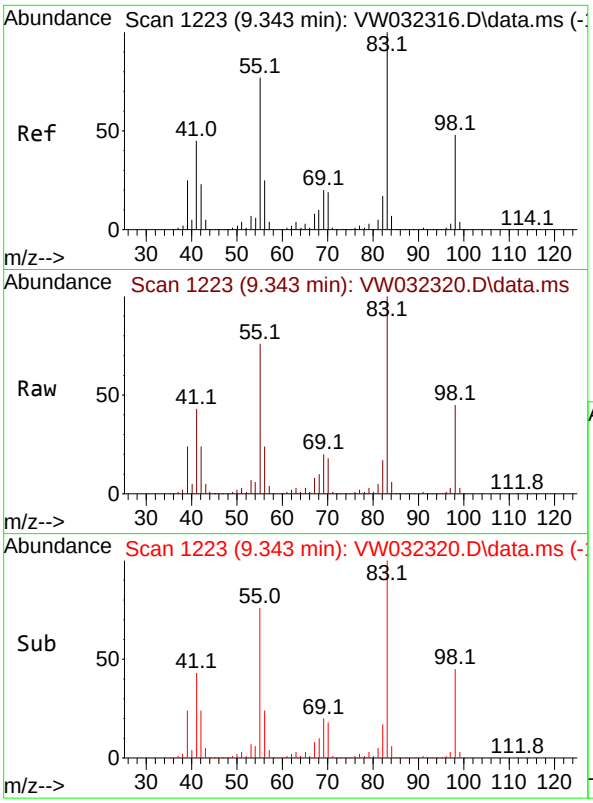


#38
Carbon Tetrachloride
Concen: 49.617 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:117 Resp: 231677

Ion	Ratio	Lower	Upper
117	100		
119	96.2	74.2	111.2
121	28.3	25.6	38.4

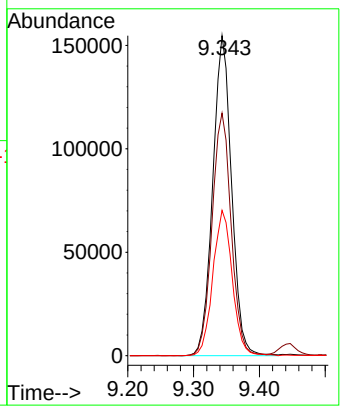




#39
Methylcyclohexane
Concen: 51.537 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 83 Resp: 30845

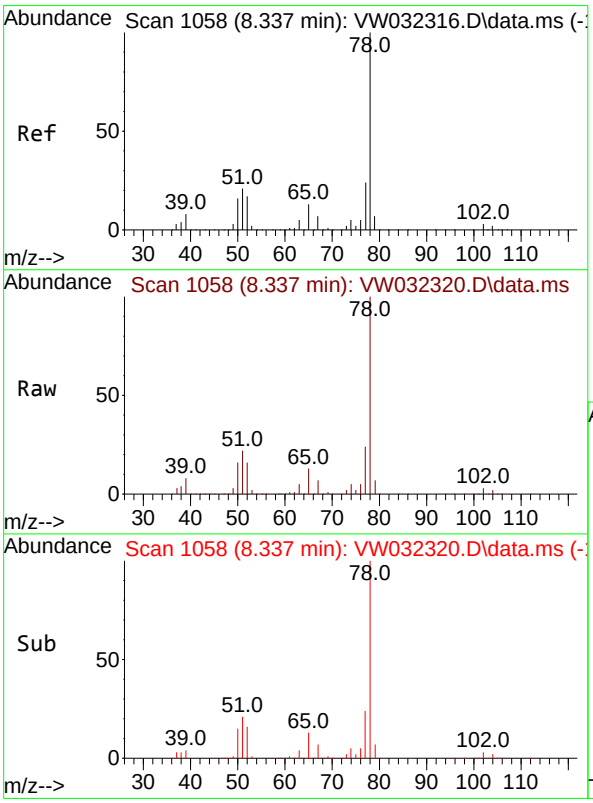
Ion	Ratio	Lower	Upper
83	100		
55	75.8	58.4	87.6
98	45.4	39.4	59.2



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

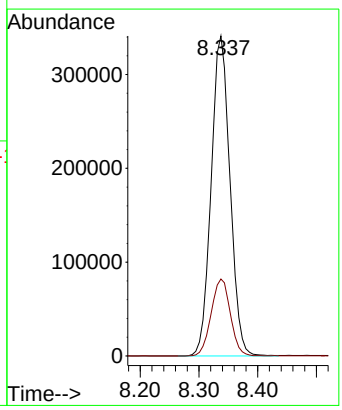
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

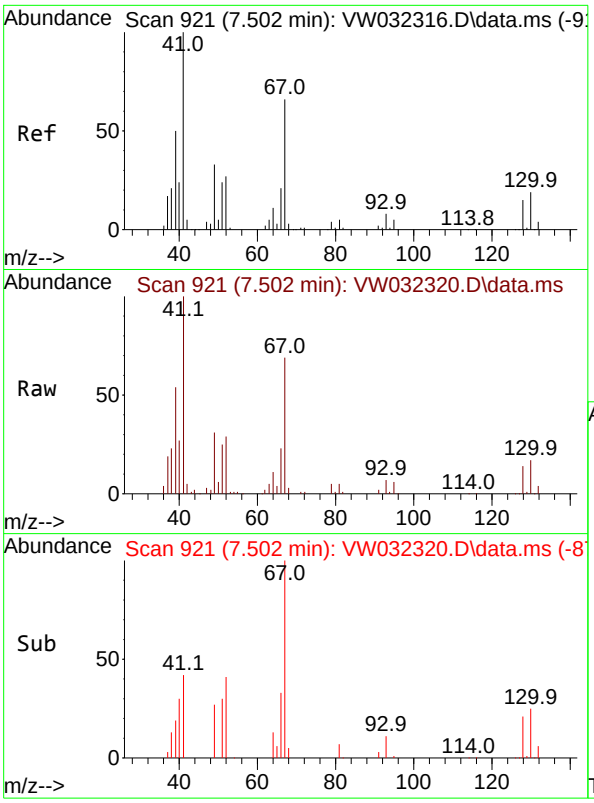


#40
Benzene
Concen: 48.794 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 78 Resp: 758892

Ion	Ratio	Lower	Upper
78	100		
77	24.0	20.7	31.1

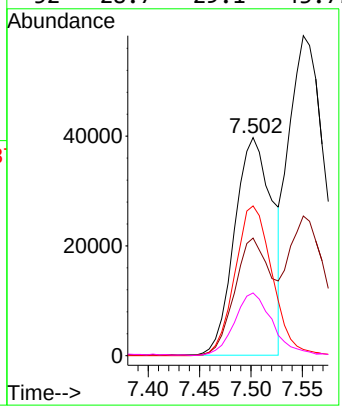




#41
Methacrylonitrile
Concen: 57.284 ug/l
RT: 7.502 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 41 Resp: 10195

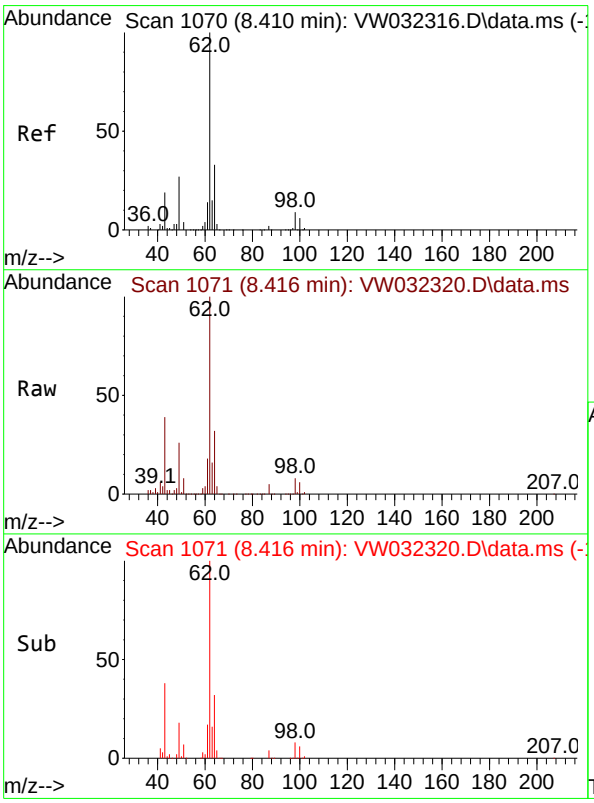
Ion	Ratio	Lower	Upper
41	100		
39	52.3	50.9	76.3
67	68.2	65.6	98.4
52	28.7	29.1	43.7#



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

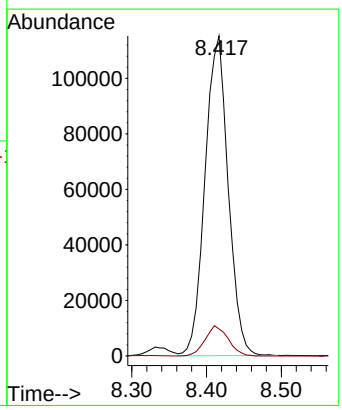
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

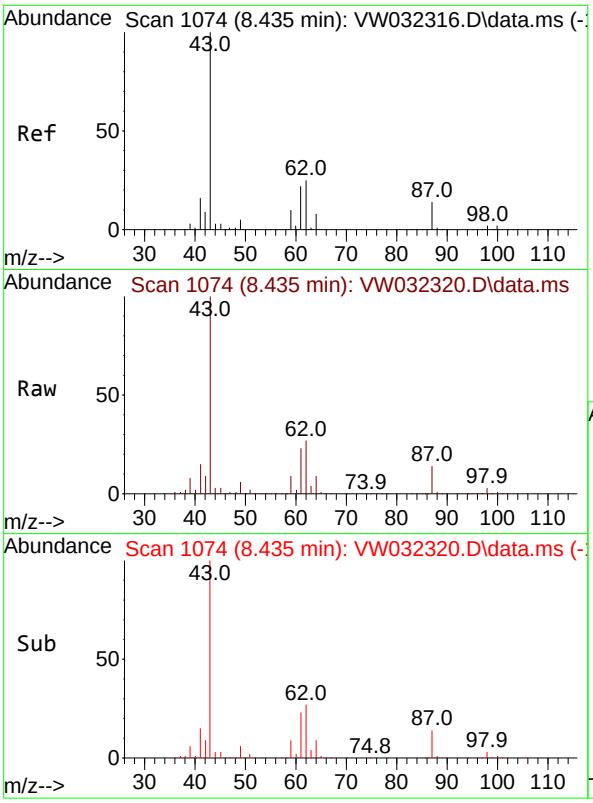


#42
1,2-Dichloroethane
Concen: 48.701 ug/l
RT: 8.416 min Scan# 1071
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 62 Resp: 247842

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.0





#43
Isopropyl Acetate
Concen: 51.877 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

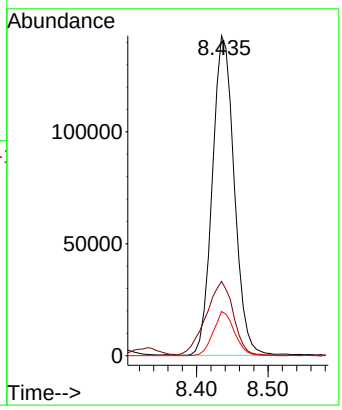
Tgt Ion: 43 Resp: 30394

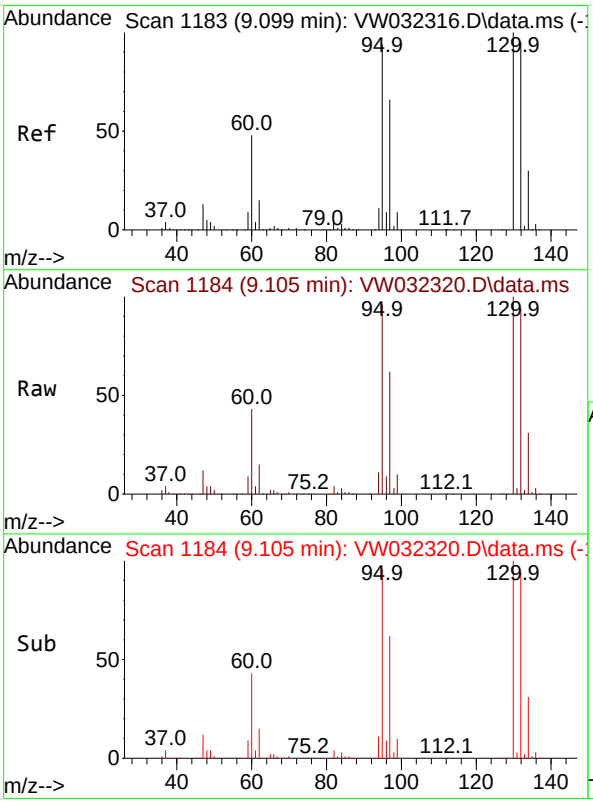
Ion	Ratio	Lower	Upper
43	100		
61	29.1	23.3	34.9
87	13.4	11.1	16.7

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

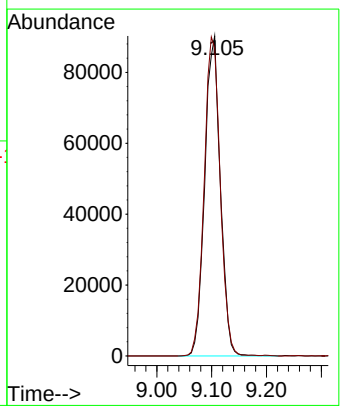


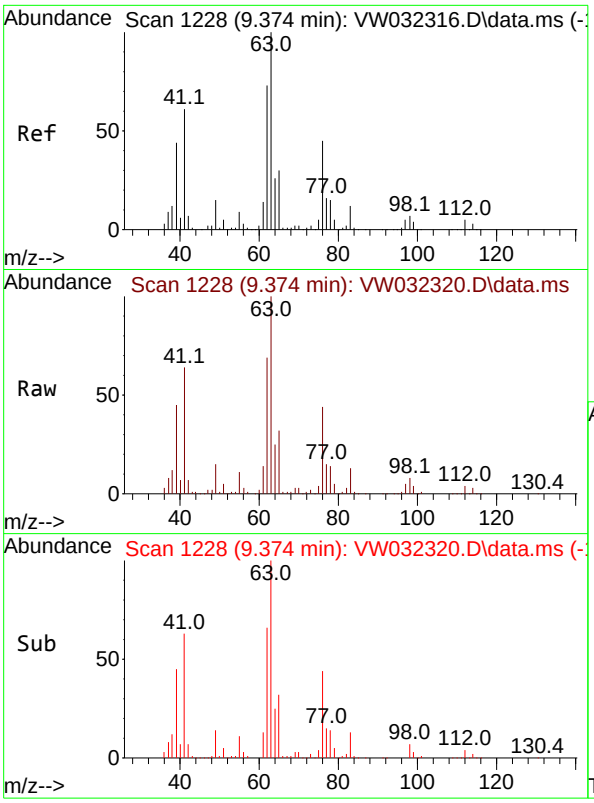


#44
Trichloroethene
Concen: 48.904 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:130 Resp: 178095

Ion	Ratio	Lower	Upper
130	100		
95	96.2	0.0	220.0

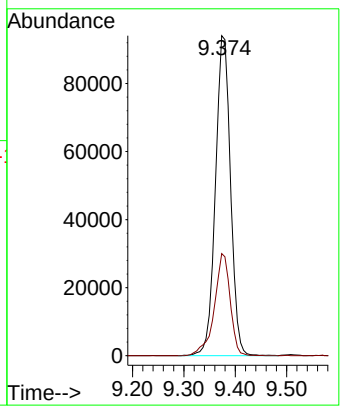




#45
1,2-Dichloropropane
Concen: 49.299 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 63 Resp: 19138

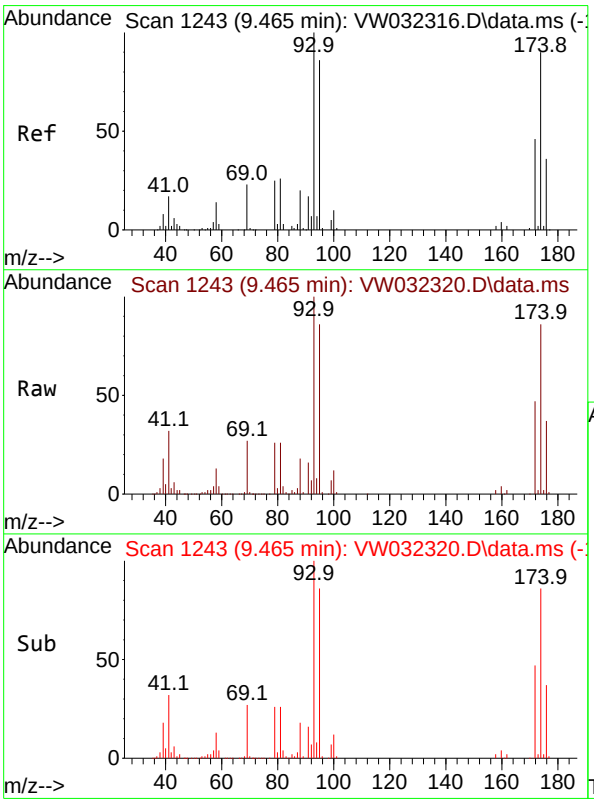
Ion	Ratio	Lower	Upper
63	100		
65	31.9	24.3	36.5



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

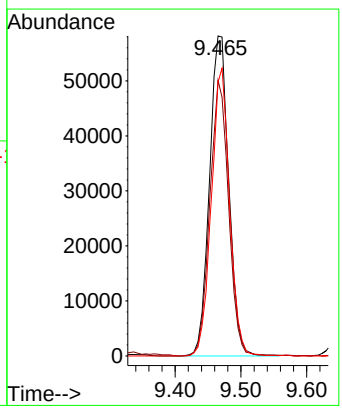
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

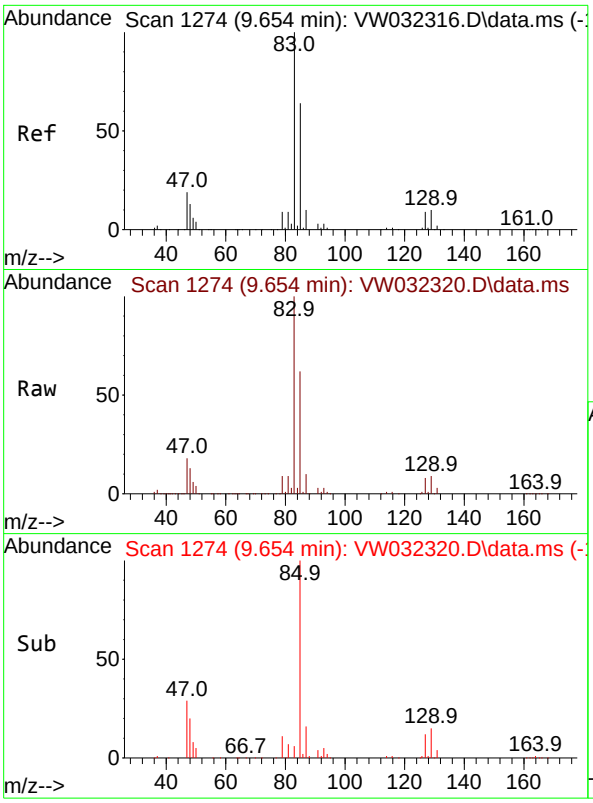


#46
Dibromomethane
Concen: 49.841 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 93 Resp: 118979

Ion	Ratio	Lower	Upper
93	100		
95	83.5	67.4	101.2
174	84.9	75.7	113.5

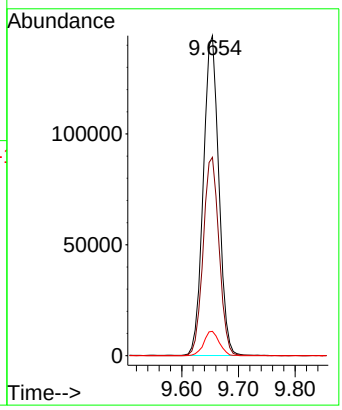




#47
Bromodichloromethane
Concen: 50.162 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 83 Resp: 27388

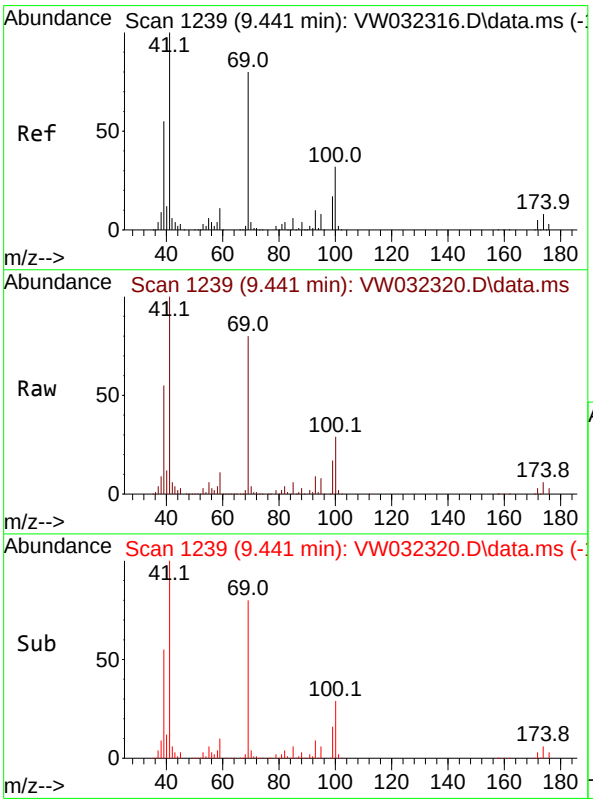
Ion	Ratio	Lower	Upper
83	100		
85	62.0	48.7	73.1
127	7.6	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

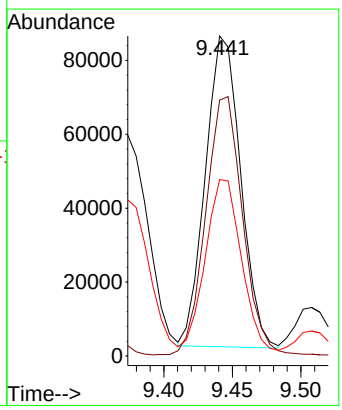
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

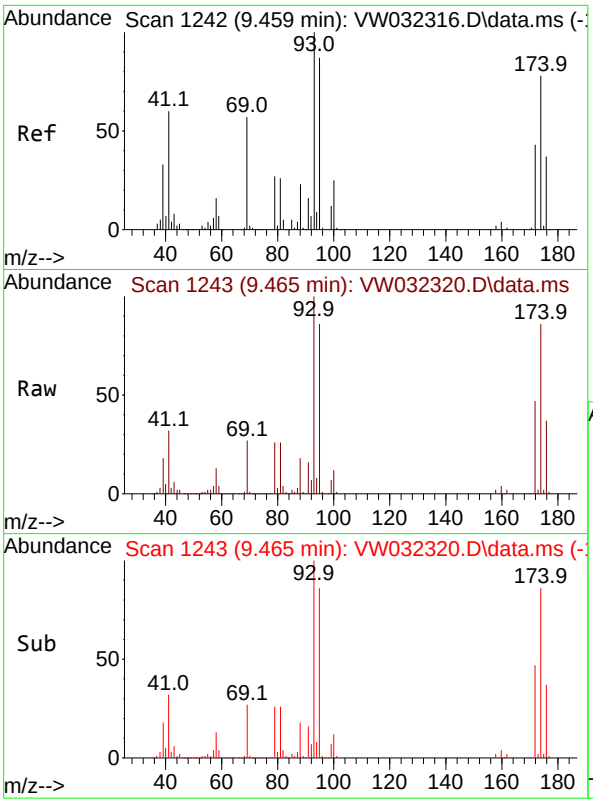


#48
Methyl methacrylate
Concen: 52.884 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 41 Resp: 150648

Ion	Ratio	Lower	Upper
41	100		
69	87.7	71.5	107.3
39	55.2	55.9	83.9#

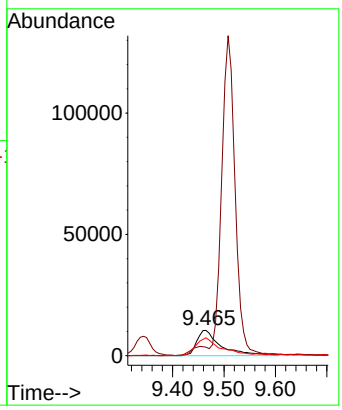




#49
1,4-Dioxane
Concen: 1058.229 ug/l
RT: 9.465 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 88 Resp: 3452

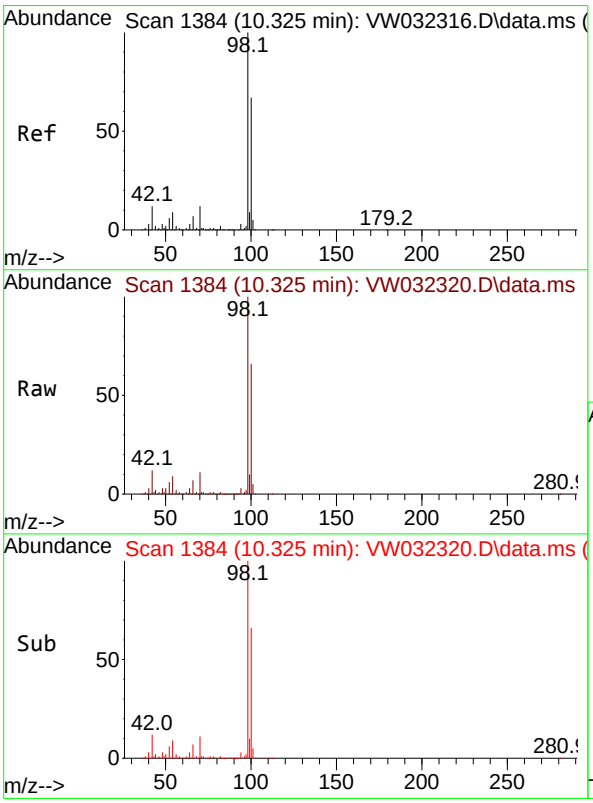
Ion	Ratio	Lower	Upper
88	100		
43	25.4	18.0	27.0
58	70.1	55.4	83.0



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

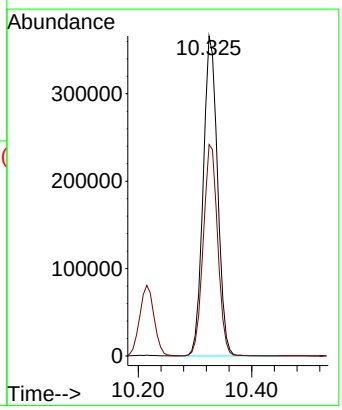
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

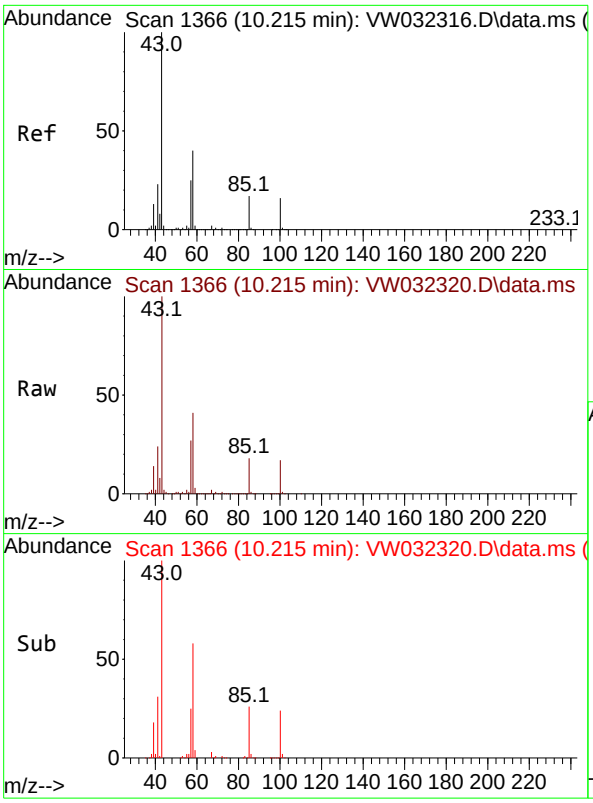


#50
Toluene-d8
Concen: 49.731 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 98 Resp: 645322

Ion	Ratio	Lower	Upper
98	100		
100	66.3	51.4	77.2

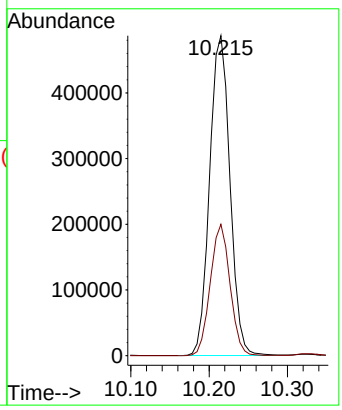




#51
4-Methyl-2-Pentanone
Concen: 258.790 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 43 Resp: 87820

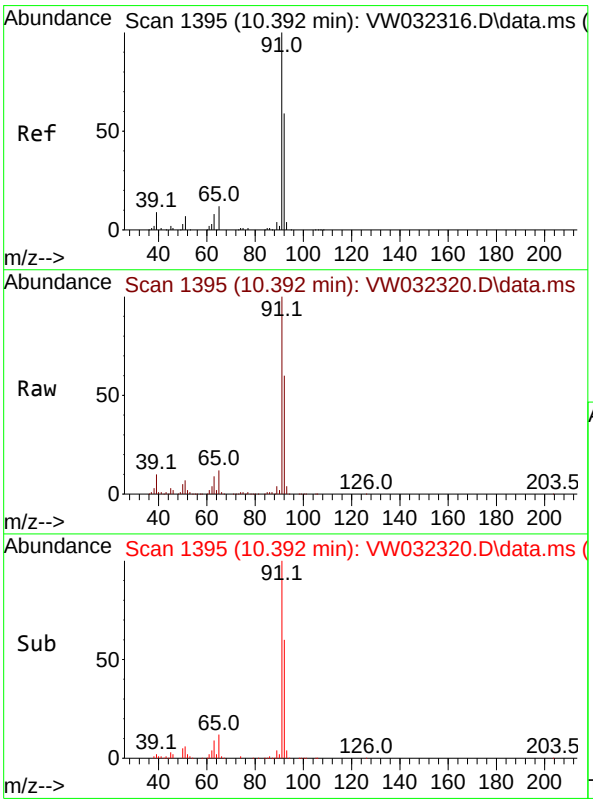
Ion	Ratio	Lower	Upper
43	100		
58	39.9	32.0	48.0



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

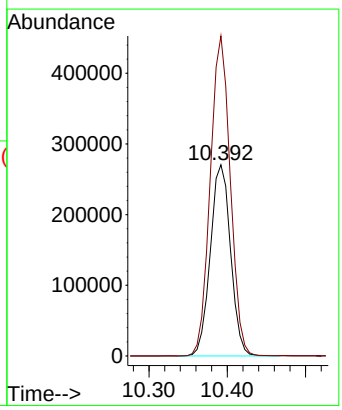
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

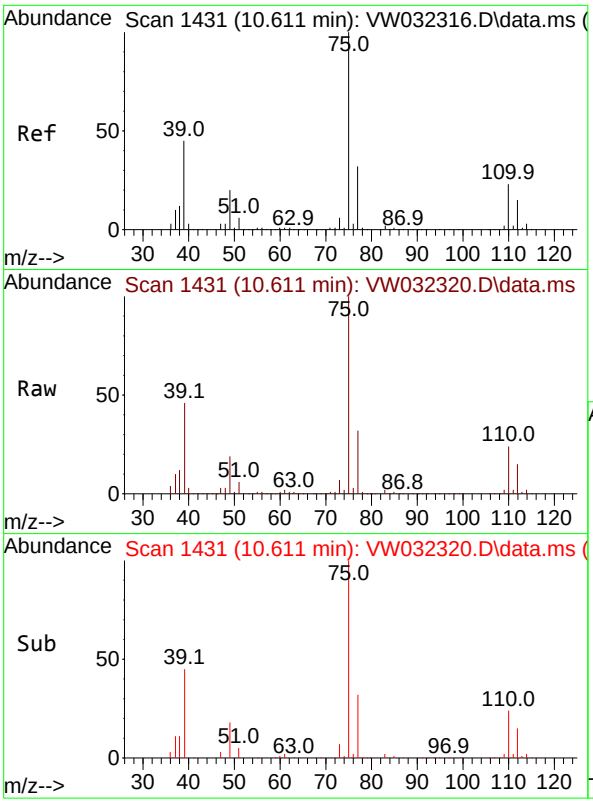


#52
Toluene
Concen: 50.061 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 92 Resp: 484871

Ion	Ratio	Lower	Upper
92	100		
91	165.7	137.5	206.3

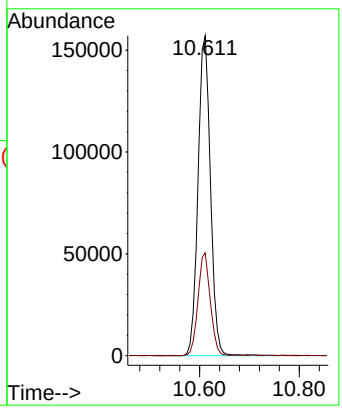




#53
t-1,3-Dichloropropene
Concen: 51.234 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 75 Resp: 27139

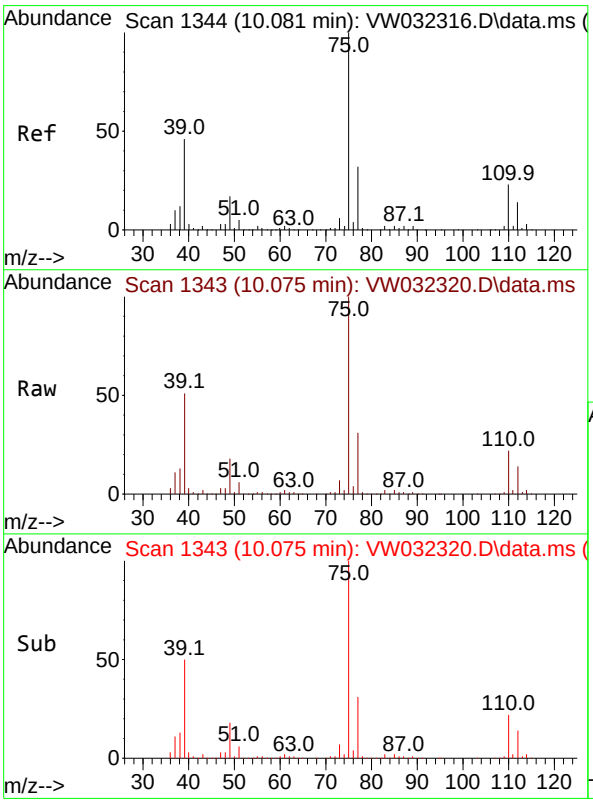
Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.6	38.4



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

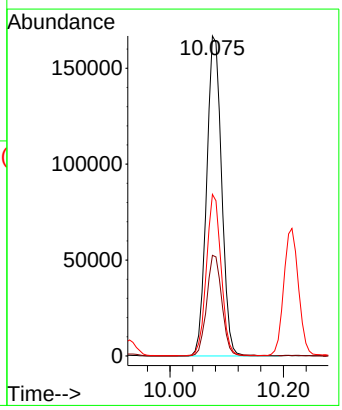
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

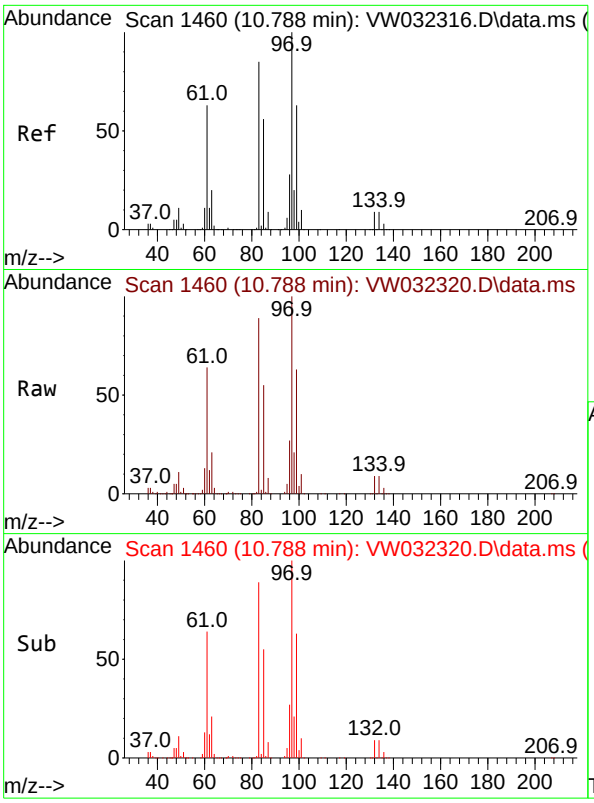


#54
cis-1,3-Dichloropropene
Concen: 50.209 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 75 Resp: 306358

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.1	37.7
39	50.4	43.2	64.8

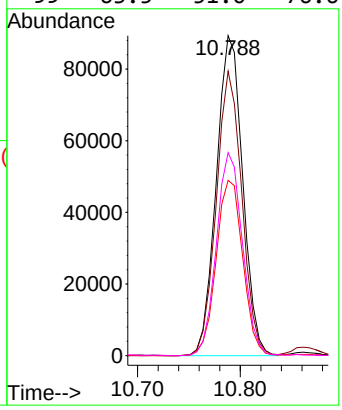




#55
1,1,2-Trichloroethane
Concen: 49.869 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 97 Resp: 15910

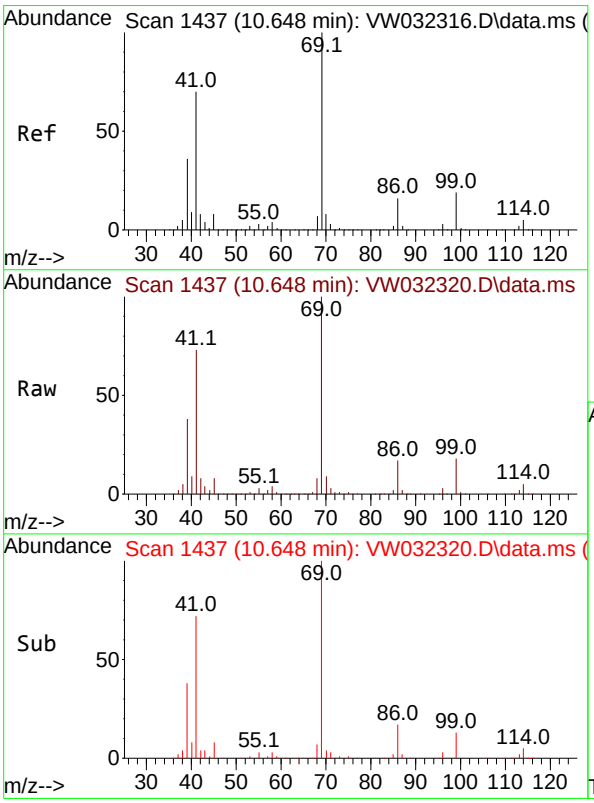
Ion	Ratio	Lower	Upper
97	100		
83	88.9	71.0	106.6
85	54.8	42.8	64.2
99	63.5	51.0	76.6



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

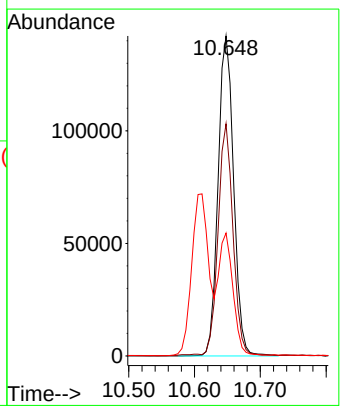
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

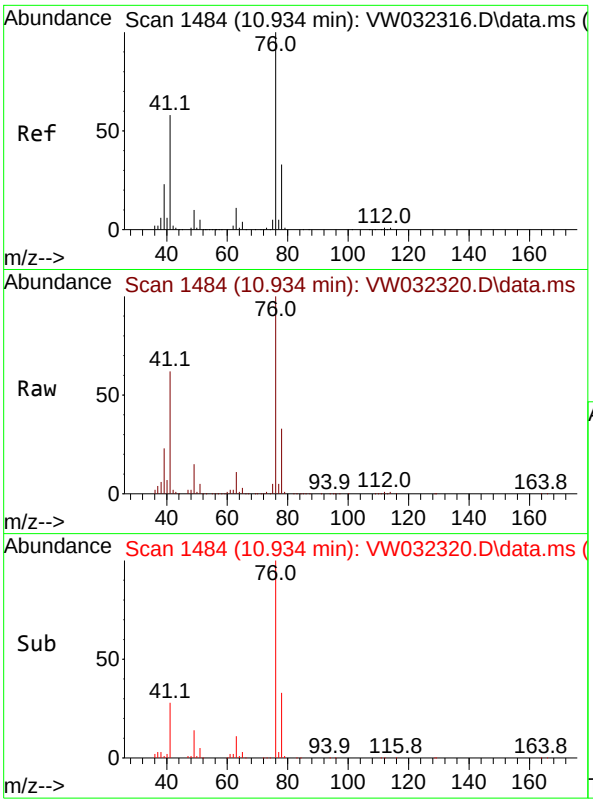


#56
Ethyl methacrylate
Concen: 52.367 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 69 Resp: 233853

Ion	Ratio	Lower	Upper
69	100		
41	70.4	53.2	79.8
39	35.0	32.9	49.3

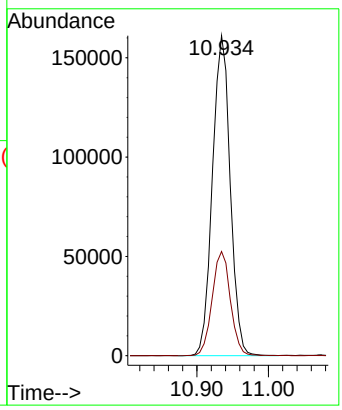




#57
1,3-Dichloropropane
Concen: 49.394 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 76 Resp: 27833(

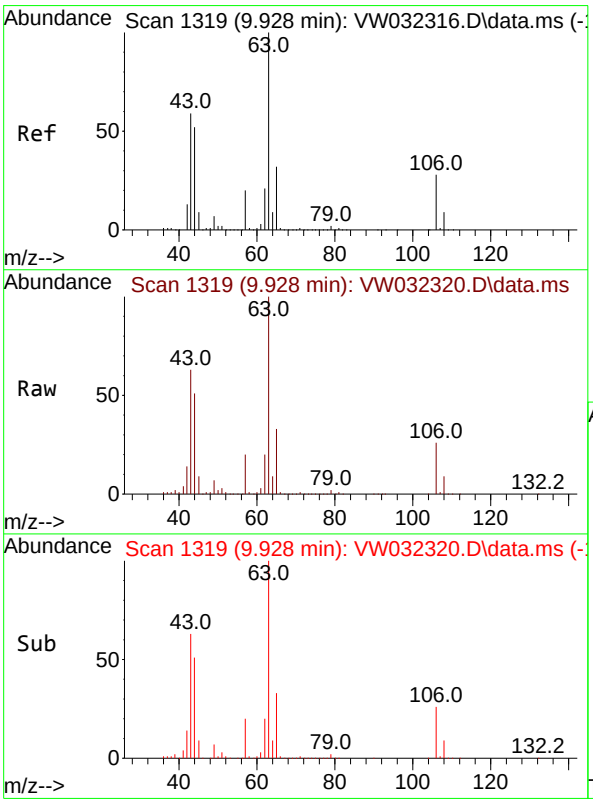
Ion	Ratio	Lower	Upper
76	100		
78	33.3	26.2	39.4



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

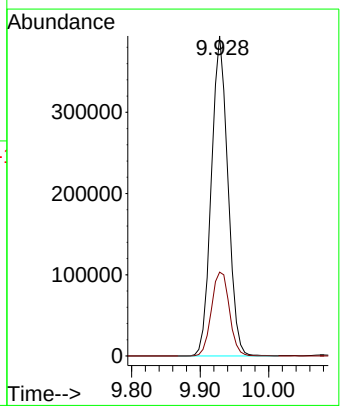
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

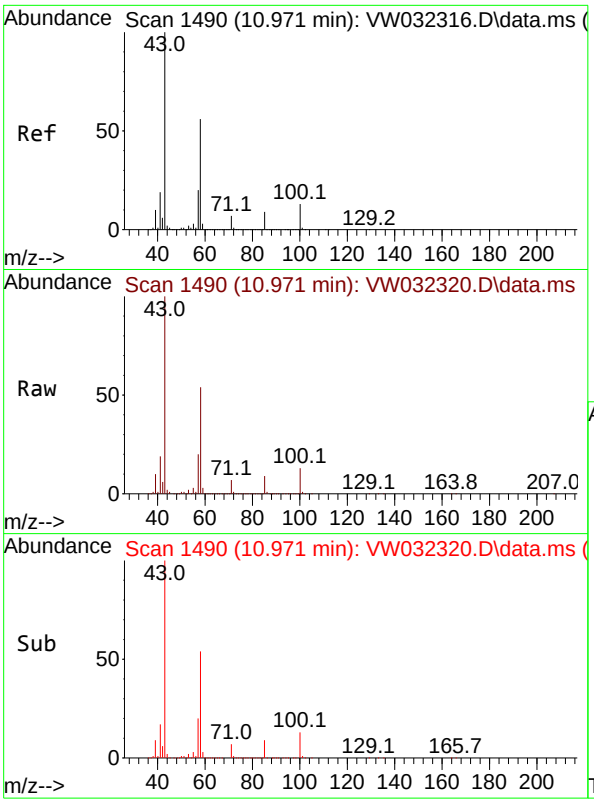


#58
2-Chloroethyl Vinyl ether
Concen: 277.181 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 63 Resp: 658757

Ion	Ratio	Lower	Upper
63	100		
106	28.4	24.3	36.5

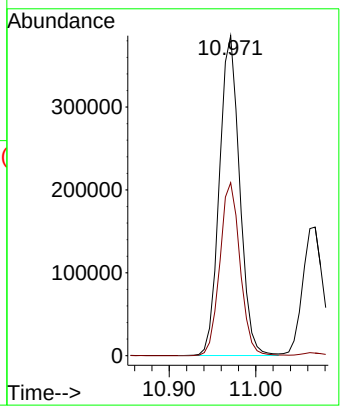




#59
2-Hexanone
Concen: 262.215 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 43 Resp: 62758

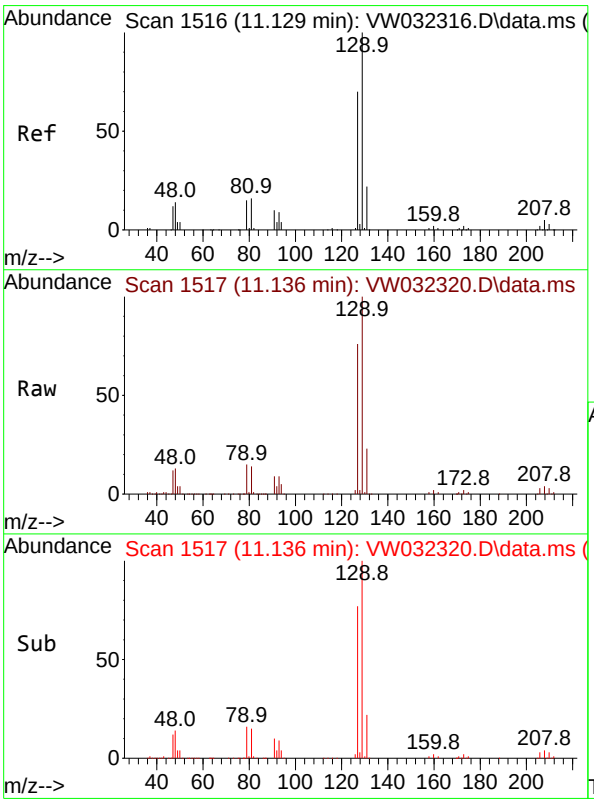
Ion	Ratio	Lower	Upper
43	100		
58	54.0	27.5	82.4



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

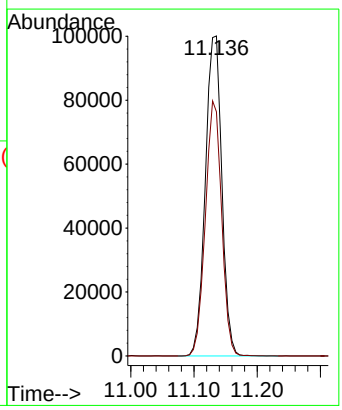
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

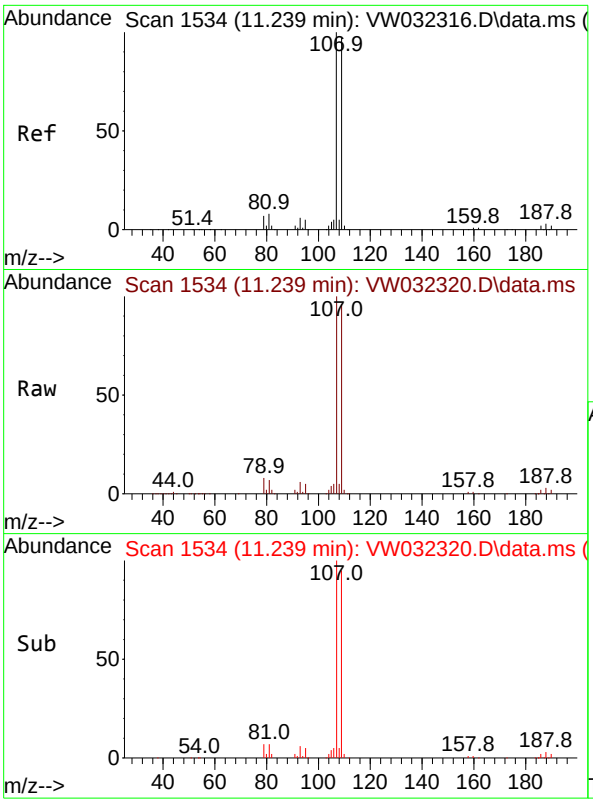


#60
Dibromochloromethane
Concen: 50.187 ug/l
RT: 11.136 min Scan# 1517
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:129 Resp: 181813

Ion	Ratio	Lower	Upper
129	100		
127	78.4	38.1	114.5

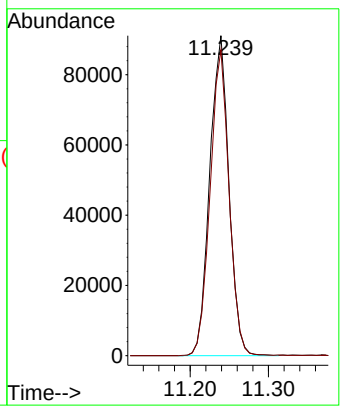




#61
1,2-Dibromoethane
Concen: 49.732 ug/l
RT: 11.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:107 Resp: 15471

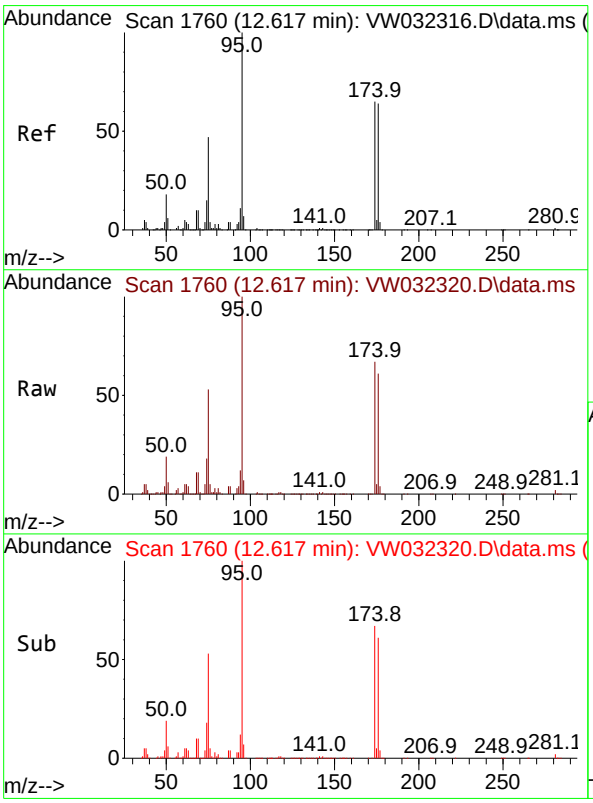
Ion	Ratio	Lower	Upper
107	100		
109	94.4	74.5	111.7



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

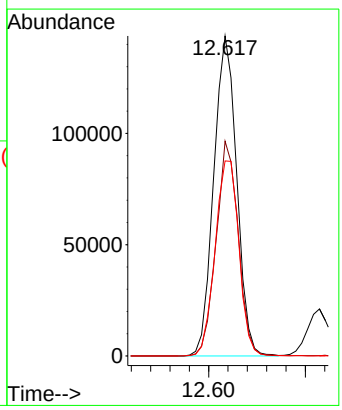
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

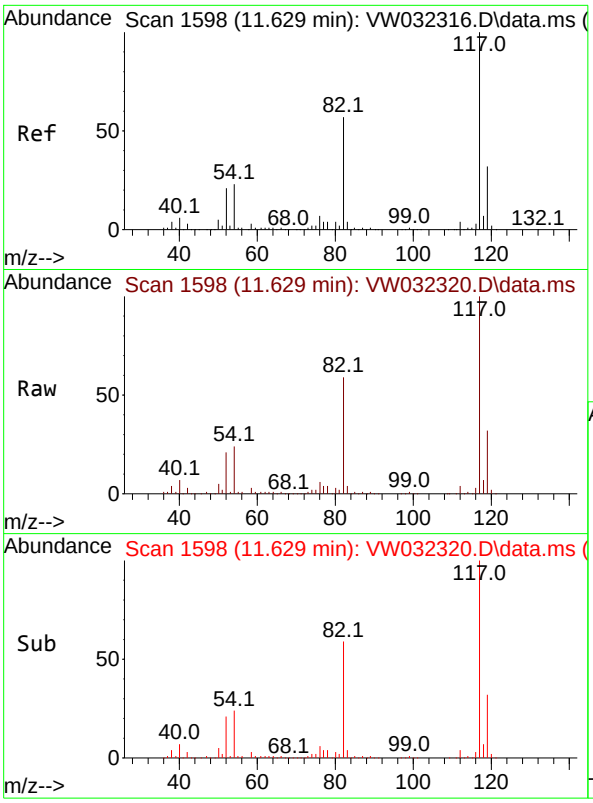


#62
4-Bromofluorobenzene
Concen: 48.218 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 95 Resp: 236491

Ion	Ratio	Lower	Upper
95	100		
174	64.6	0.0	145.6
176	63.3	0.0	140.8

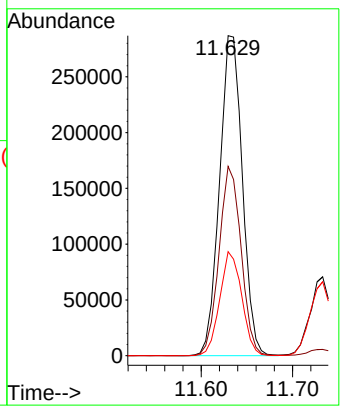




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:117 Resp: 49821

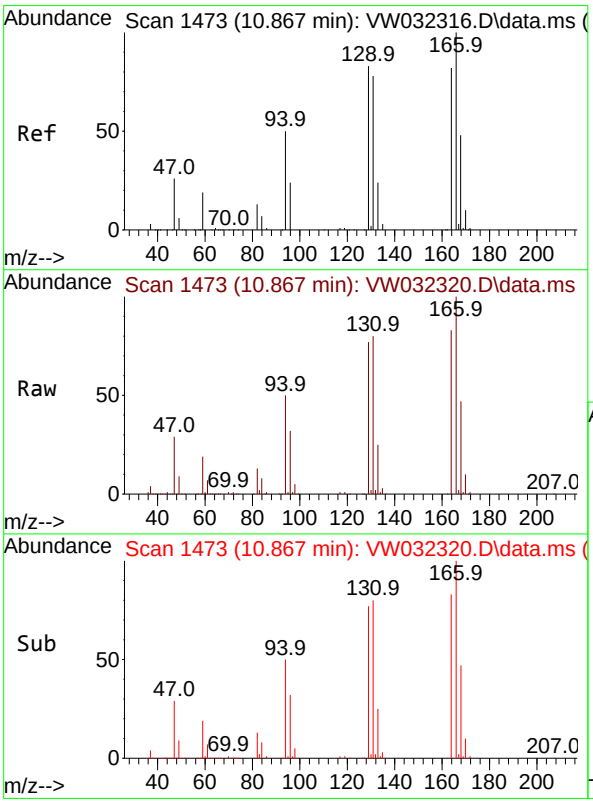
Ion	Ratio	Lower	Upper
117	100		
82	59.1	42.7	64.1
119	32.5	25.2	37.8



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

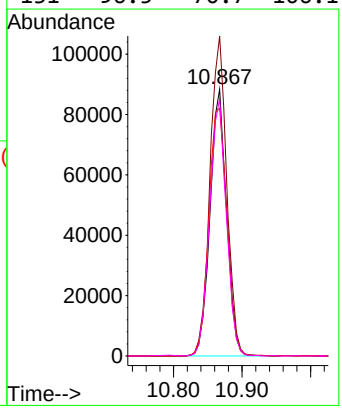
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

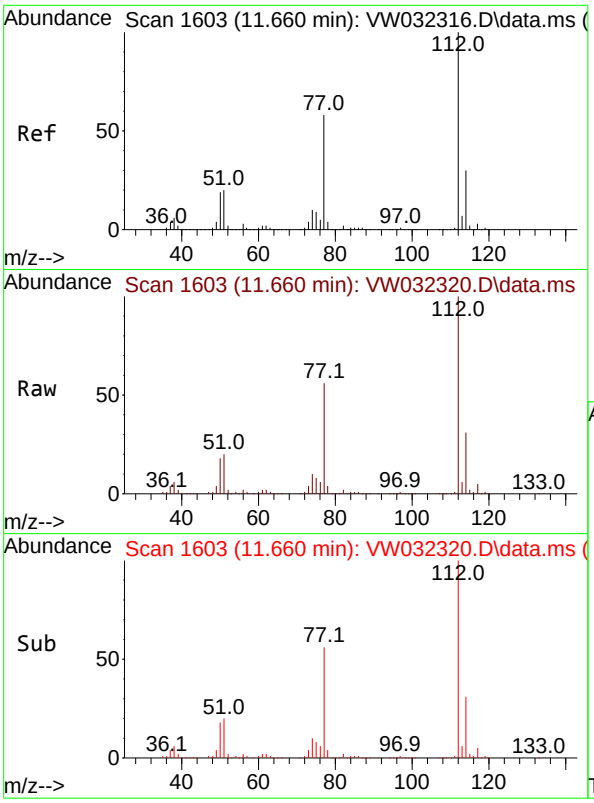


#64
Tetrachloroethene
Concen: 49.611 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:164 Resp: 147899

Ion	Ratio	Lower	Upper
164	100		
166	120.0	97.5	146.3
129	92.9	71.2	106.8
131	96.5	70.7	106.1

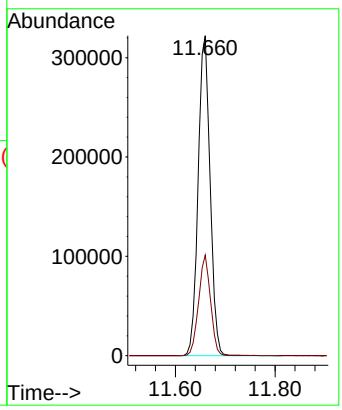




#65
Chlorobenzene
Concen: 48.862 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:112 Resp: 53561

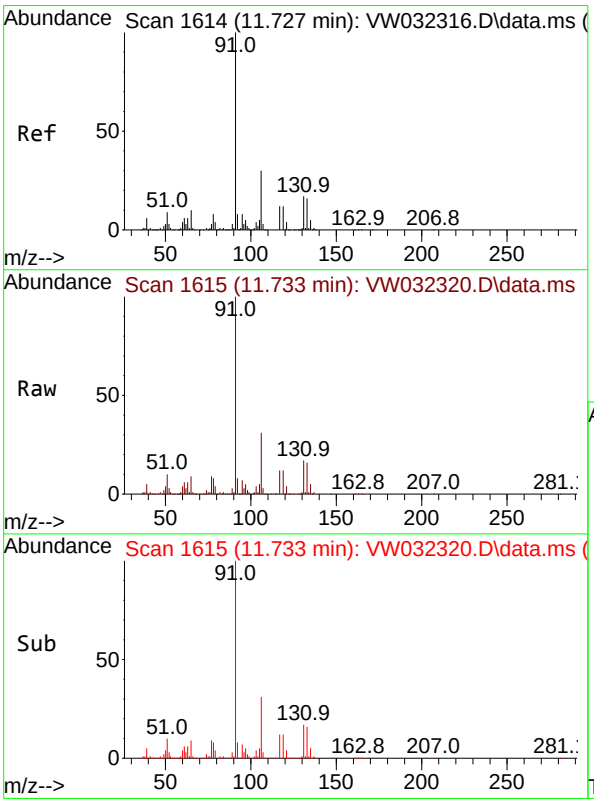
Ion	Ratio	Lower	Upper
112	100		
114	31.4	26.0	39.0



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

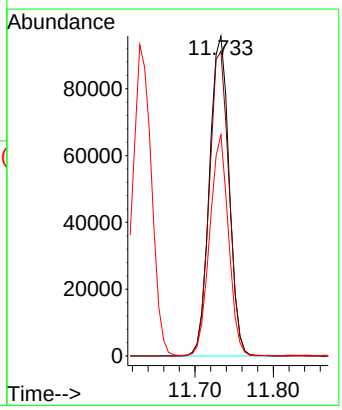
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

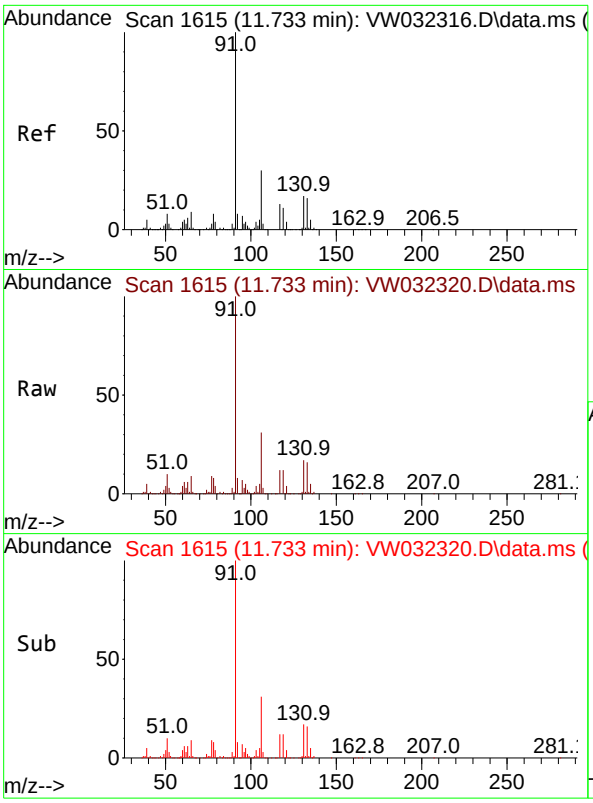


#66
1,1,1,2-Tetrachloroethane
Concen: 48.644 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:131 Resp: 166082

Ion	Ratio	Lower	Upper
131	100		
133	95.9	47.7	143.1
119	66.2	32.8	98.3

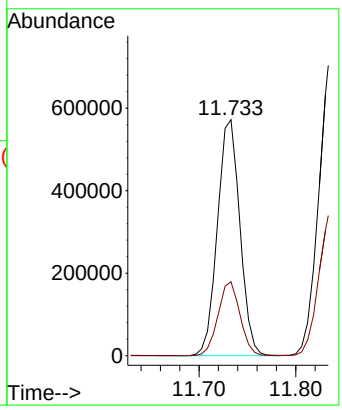




#67
Ethyl Benzene
Concen: 50.513 ug/l
RT: 11.733 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 91 Resp: 92298

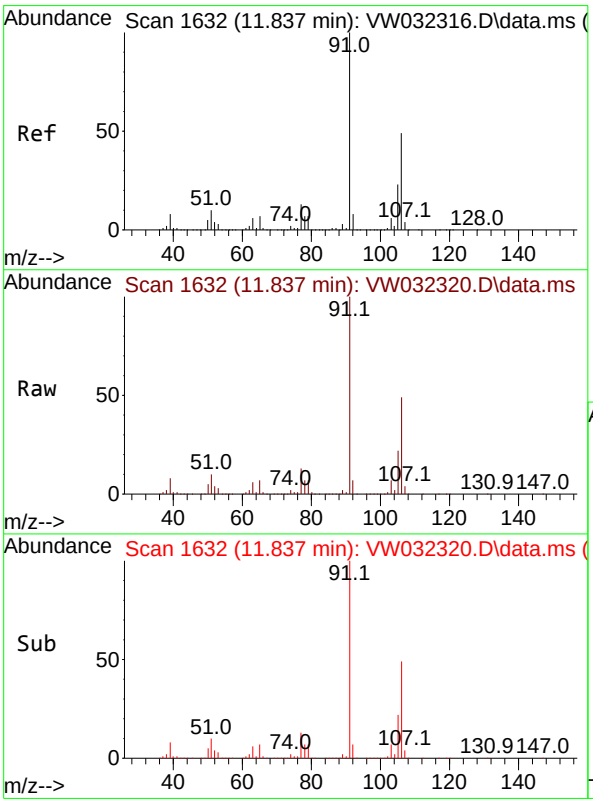
Ion	Ratio	Lower	Upper
91	100		
106	31.3	25.3	37.9



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

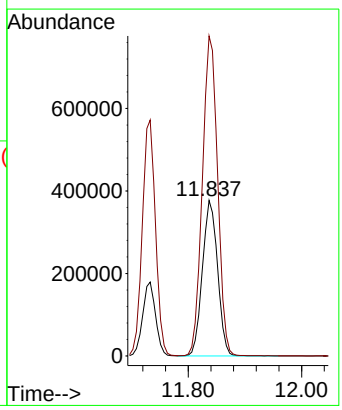
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

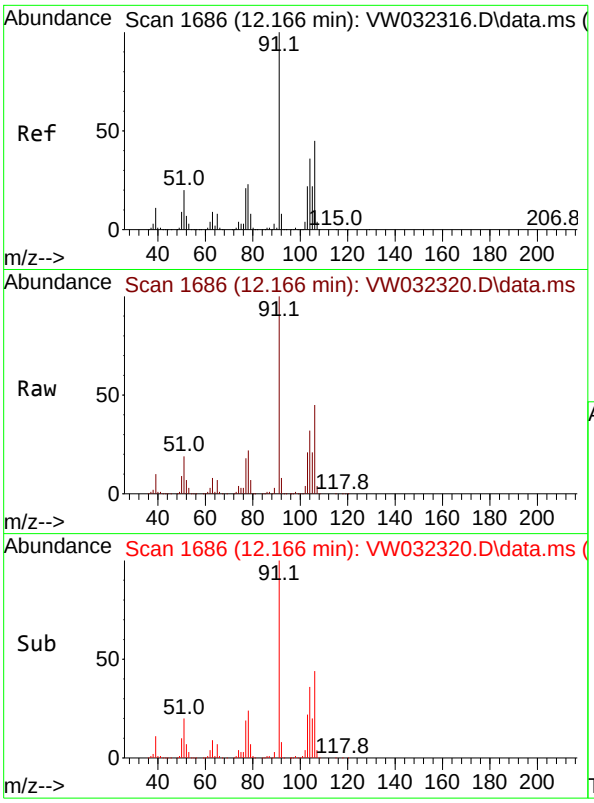


#68
m/p-Xylenes
Concen: 99.276 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:106 Resp: 699490

Ion	Ratio	Lower	Upper
106	100		
91	207.4	164.2	246.2

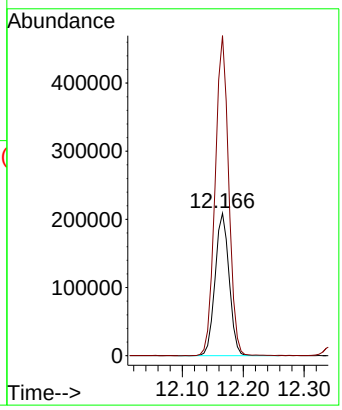




#69
o-Xylene
Concen: 50.523 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:106 Resp: 33290

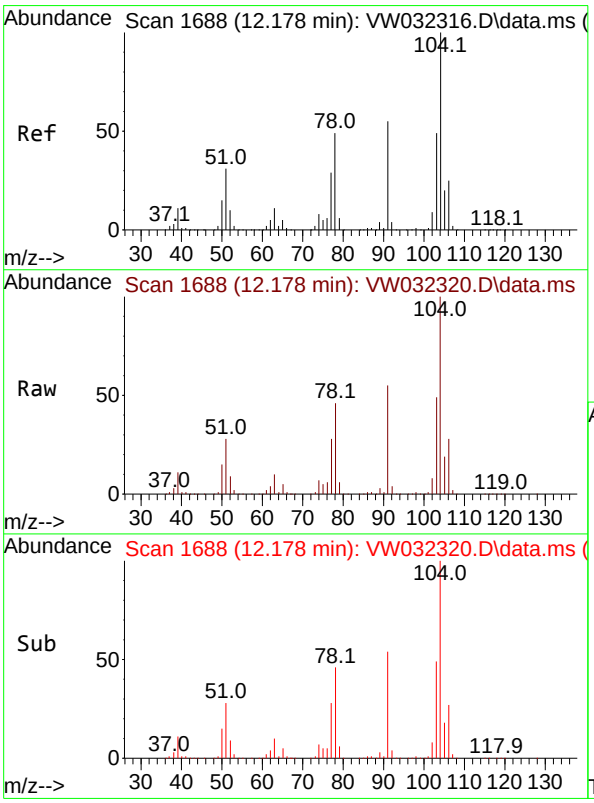
Ion	Ratio	Lower	Upper
106	100		
91	218.0	108.7	326.3



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

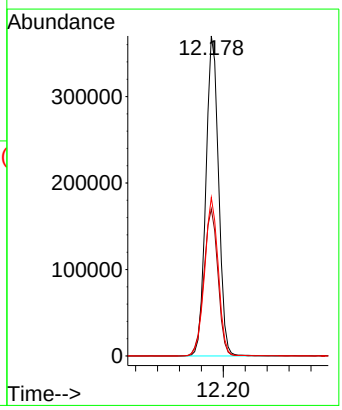
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

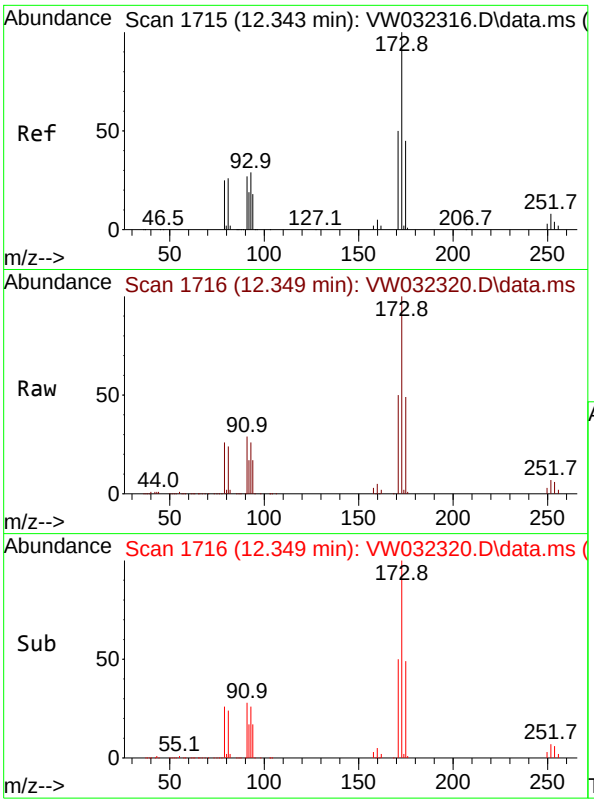


#70
Styrene
Concen: 51.667 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:104 Resp: 594393

Ion	Ratio	Lower	Upper
104	100		
78	50.7	41.6	62.4
103	52.9	44.8	67.2

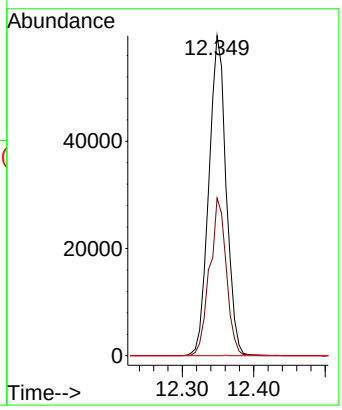




#71
Bromoform
Concen: 51.207 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:173 Resp: 10021

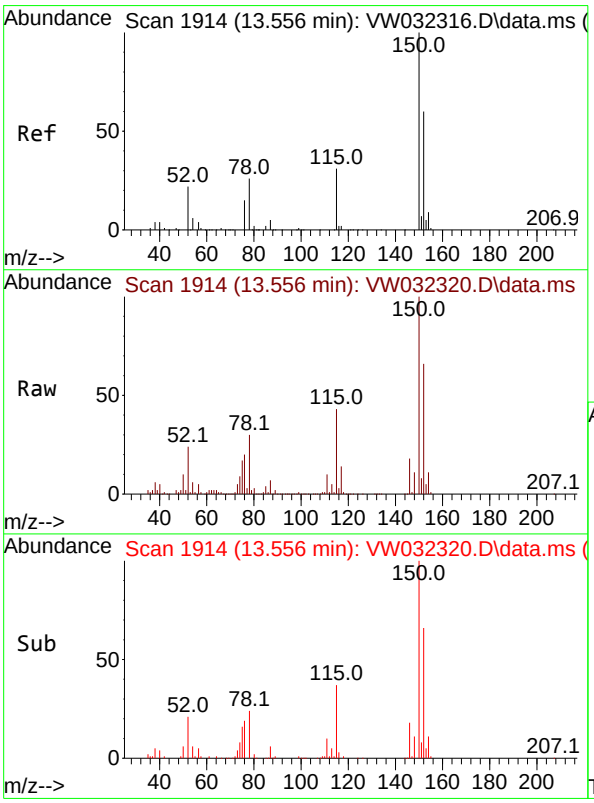
Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.9	74.7
254	0.0	0.2	0.2



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

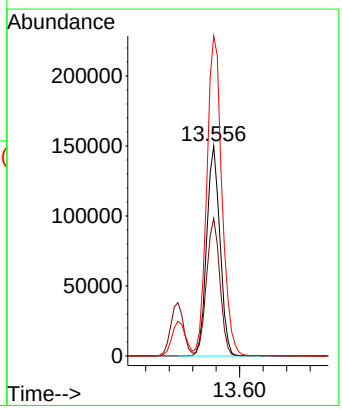
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

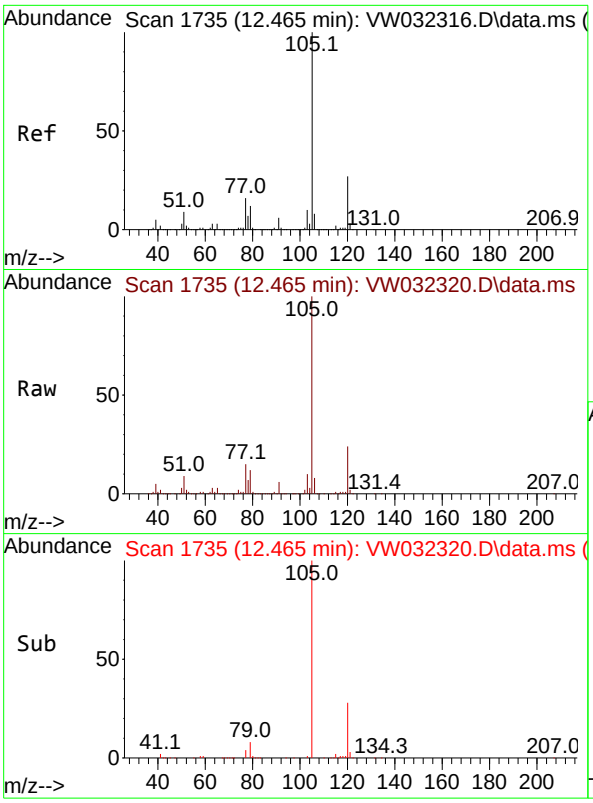


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:152 Resp: 235528

Ion	Ratio	Lower	Upper
152	100		
115	66.0	31.8	95.4
150	173.3	0.0	343.0

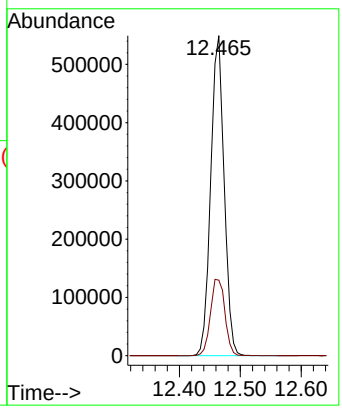




#73
Isopropylbenzene
Concen: 52.076 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:105 Resp: 83913

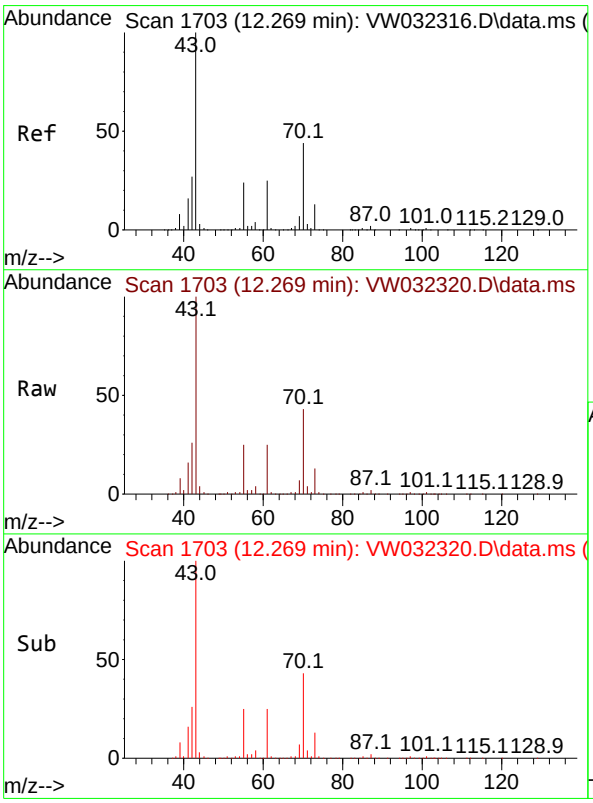
Ion	Ratio	Lower	Upper
105	100		
120	25.7	13.0	38.9



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

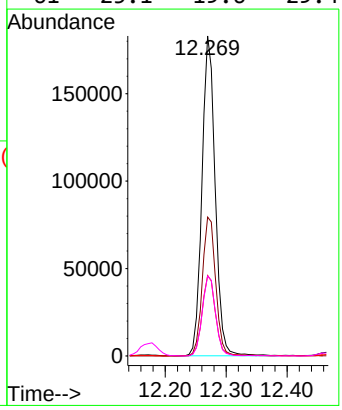
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

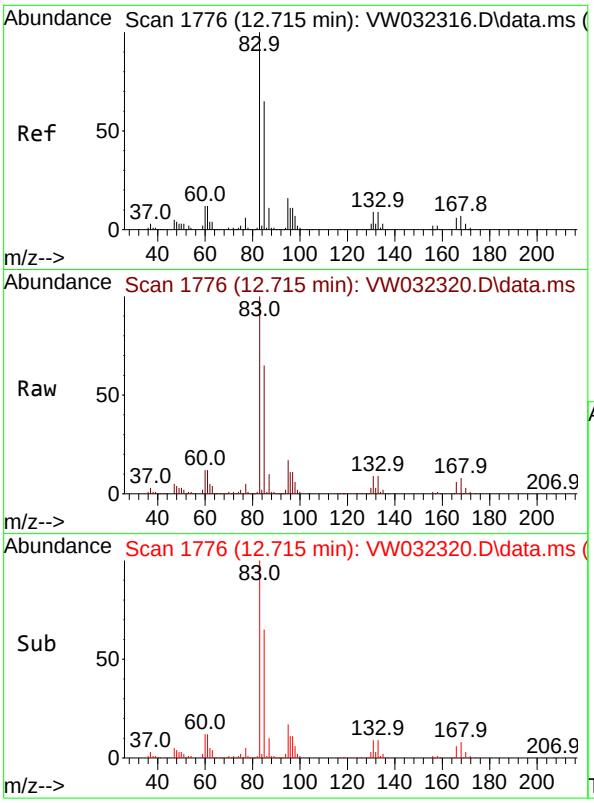


#74
N-amyl acetate
Concen: 53.697 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 43 Resp: 276033

Ion	Ratio	Lower	Upper
43	100		
70	44.2	35.3	52.9
55	25.8	19.9	29.9
61	25.1	19.6	29.4

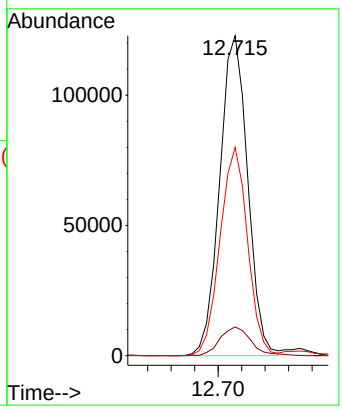




#75
1,1,2,2-Tetrachloroethane
Concen: 50.822 ug/l
RT: 12.715 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 83 Resp: 20333

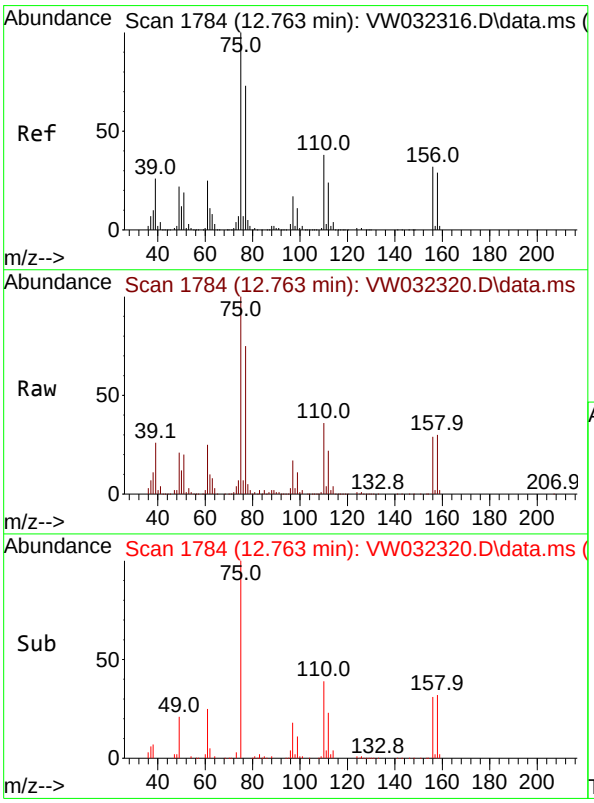
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.1	15.4
85	64.1	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

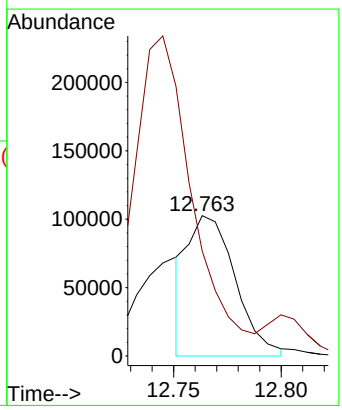
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

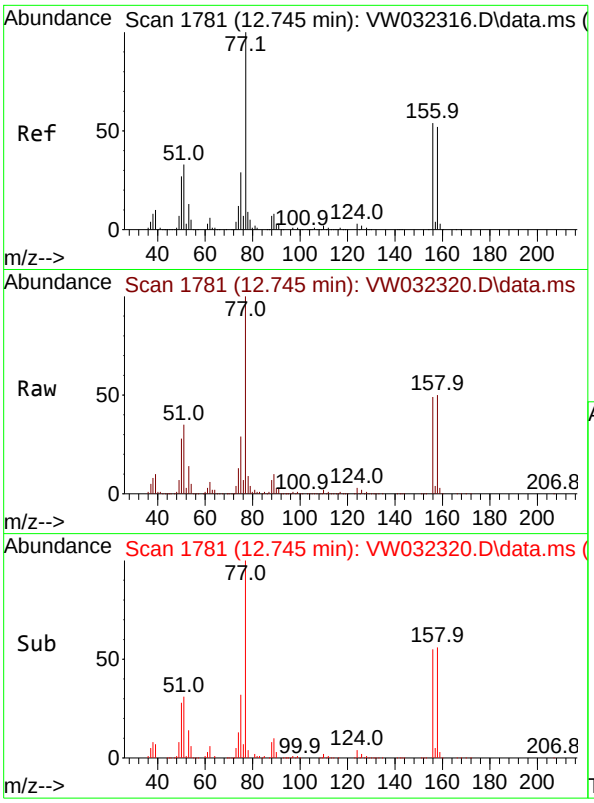


#76
1,2,3-Trichloropropane
Concen: 50.813 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 75 Resp: 157491

Ion	Ratio	Lower	Upper
75	100		
77	282.7	141.7	425.1

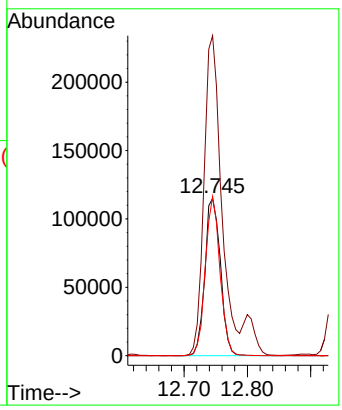




#77
Bromobenzene
Concen: 50.659 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:156 Resp: 19677

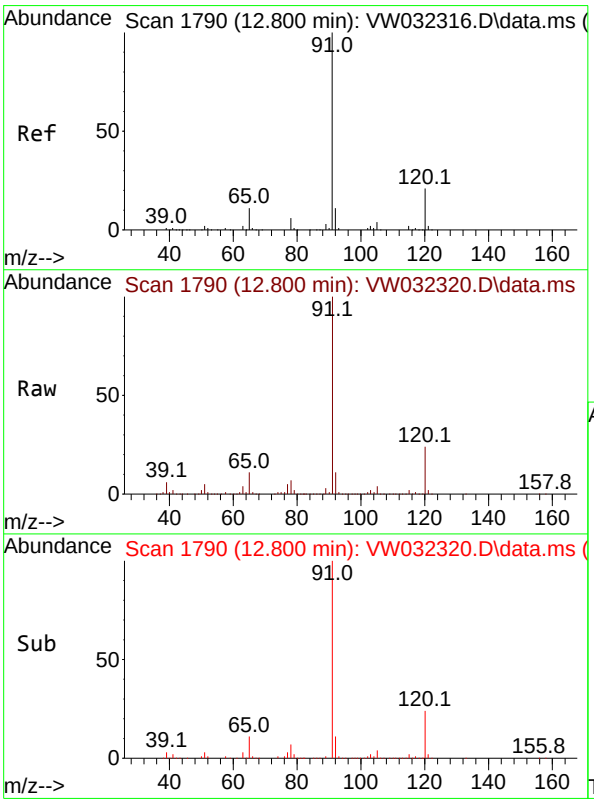
Ion	Ratio	Lower	Upper
156	100		
77	226.3	98.6	295.7
158	95.6	48.4	145.0



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

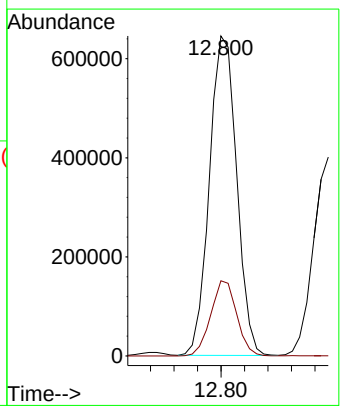
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

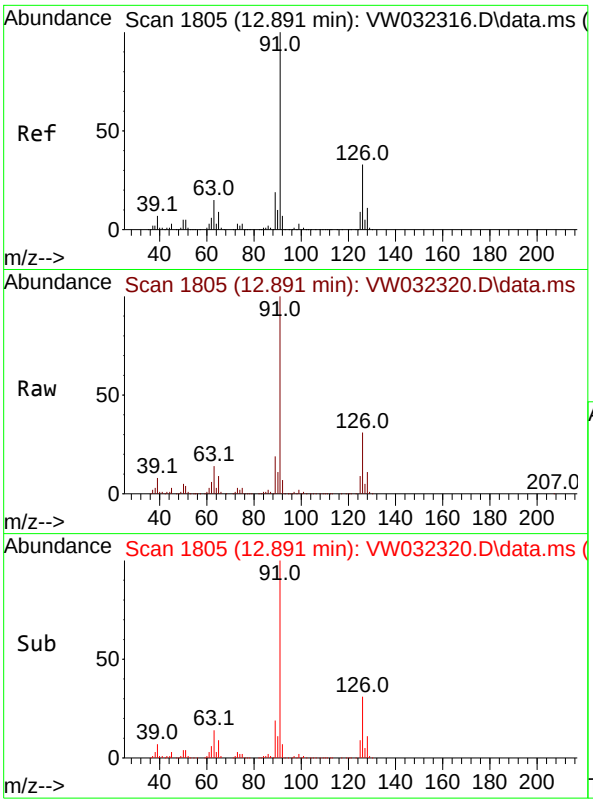


#78
n-propylbenzene
Concen: 51.657 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 91 Resp: 1039770

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.8	35.4

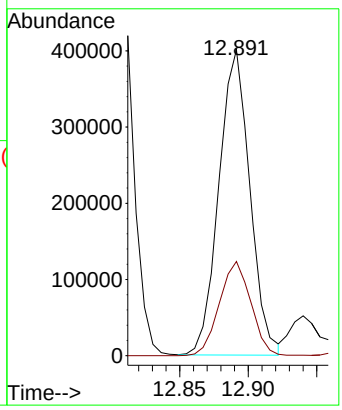




#79
2-Chlorotoluene
Concen: 51.287 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 91 Resp: 63119

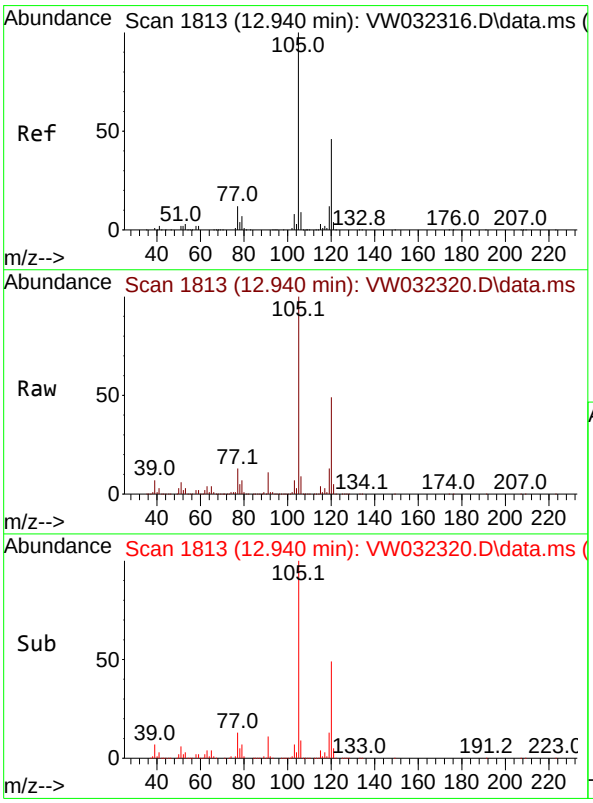
Ion	Ratio	Lower	Upper
91	100		
126	31.3	16.6	49.7



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

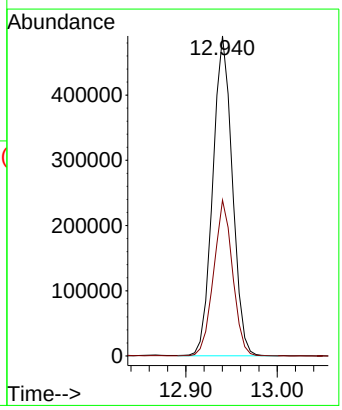
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

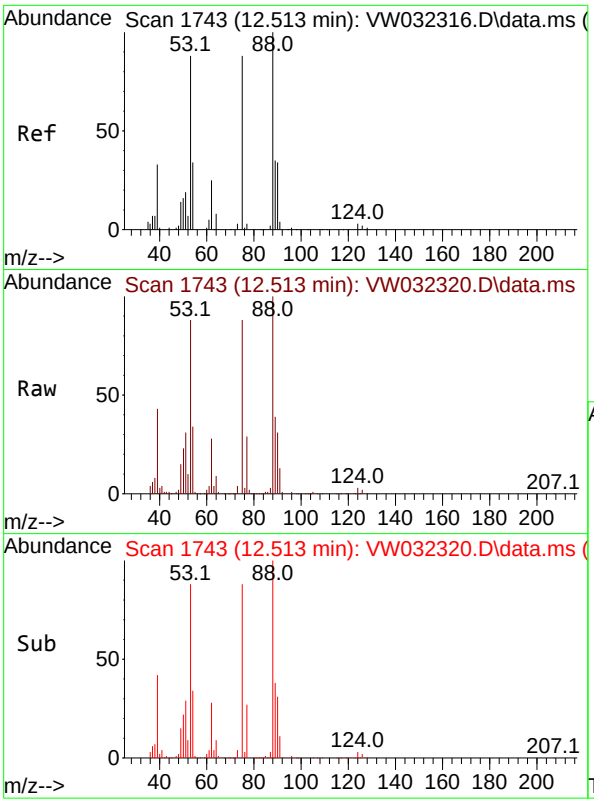


#80
1,3,5-Trimethylbenzene
Concen: 52.365 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:105 Resp: 729628

Ion	Ratio	Lower	Upper
105	100		
120	47.2	24.8	74.4

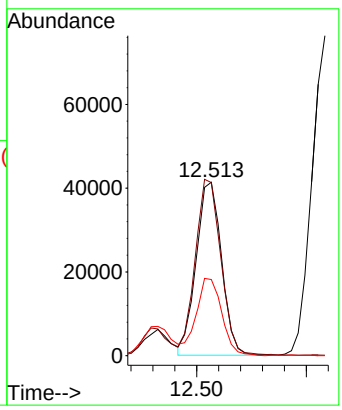




#81
trans-1,4-Dichloro-2-butene
Concen: 54.360 ug/l
RT: 12.513 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 75 Resp: 6650

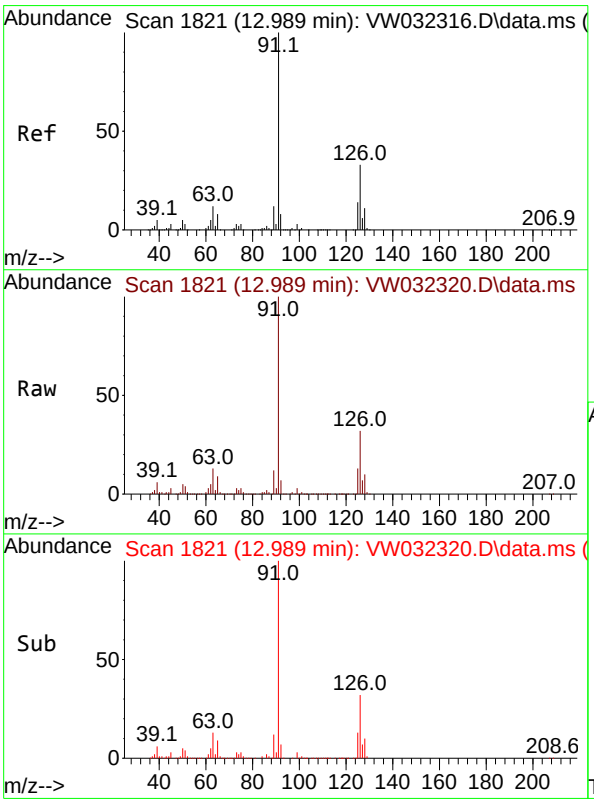
Ion	Ratio	Lower	Upper
75	100		
53	102.7	91.0	136.6
89	45.6	39.4	59.2



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

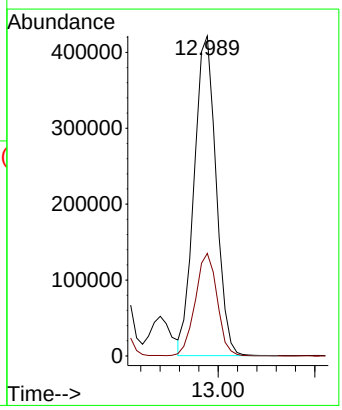
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

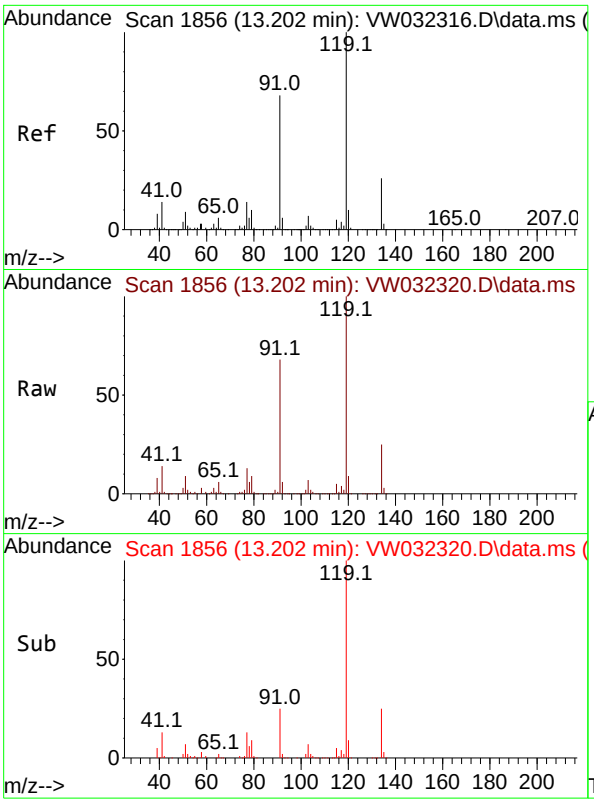


#82
4-Chlorotoluene
Concen: 50.734 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 91 Resp: 663842

Ion	Ratio	Lower	Upper
91	100		
126	32.1	16.1	48.2

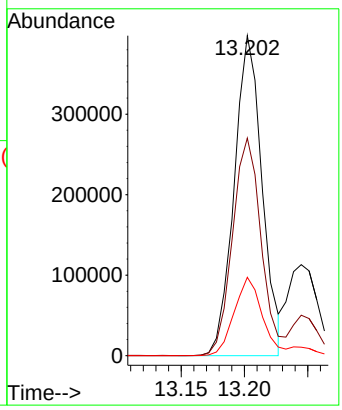




#83
tert-Butylbenzene
Concen: 53.510 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:119 Resp: 61174

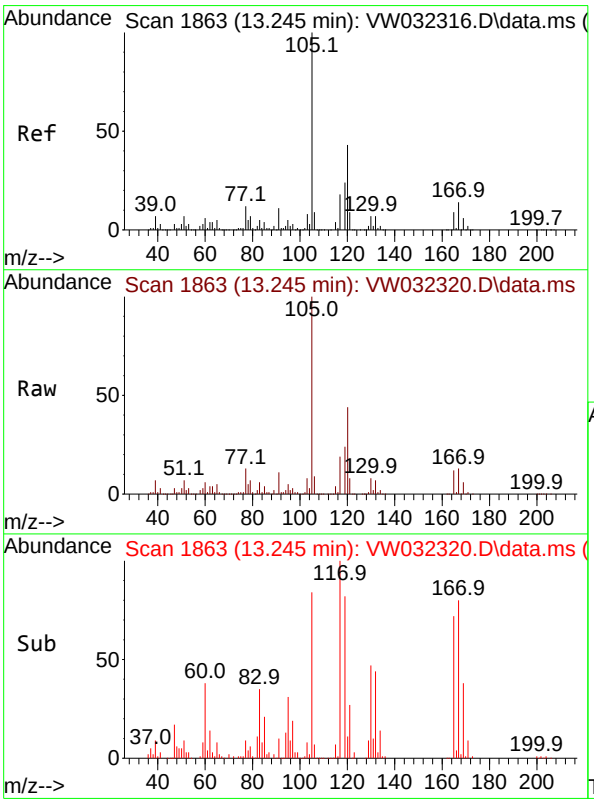
Ion	Ratio	Lower	Upper
119	100		
91	70.3	33.8	101.3
134	24.6	12.5	37.5



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

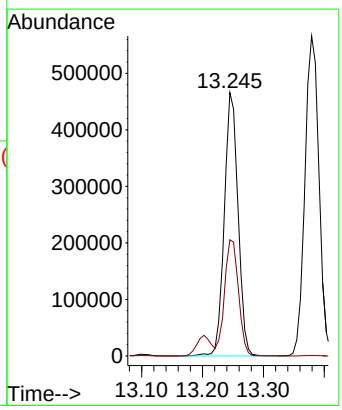
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

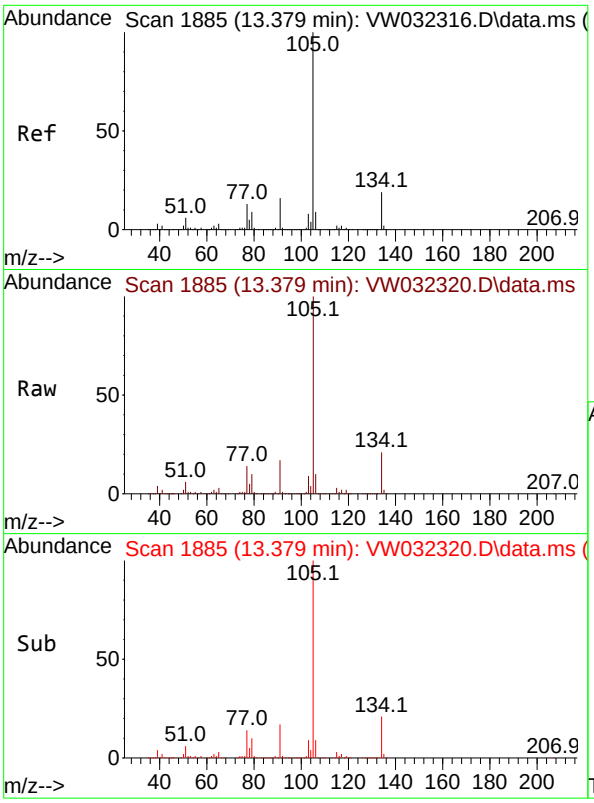


#84
1,2,4-Trimethylbenzene
Concen: 51.522 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:105 Resp: 729966

Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.1	66.3





#85
sec-Butylbenzene
Concen: 51.774 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

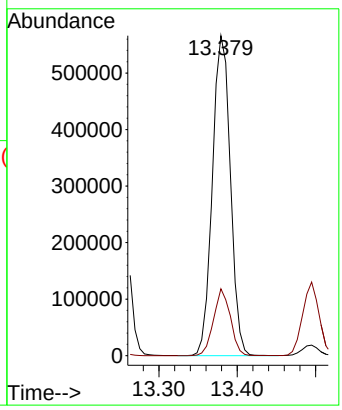
Tgt Ion:105 Resp: 90453

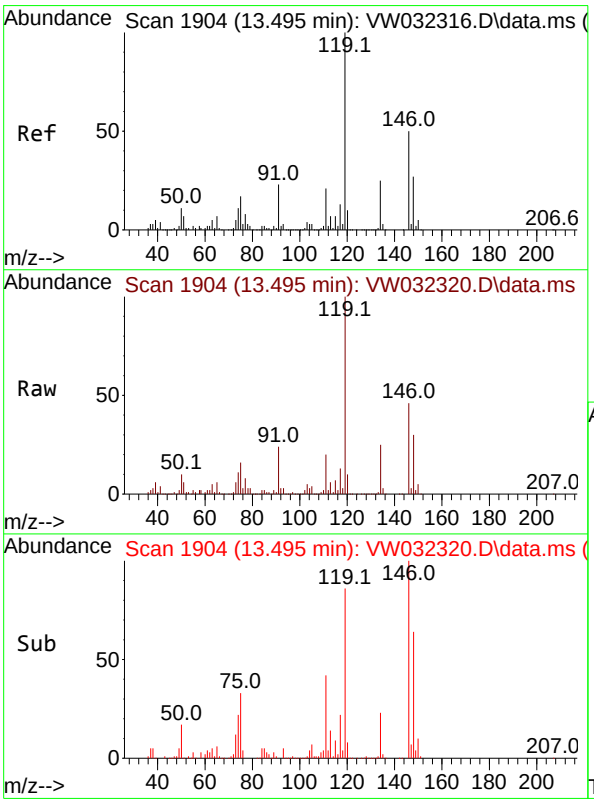
Ion	Ratio	Lower	Upper
105	100		
134	19.6	10.1	30.1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

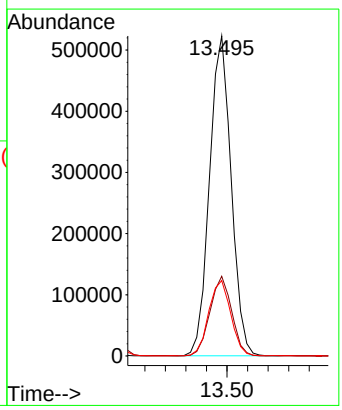


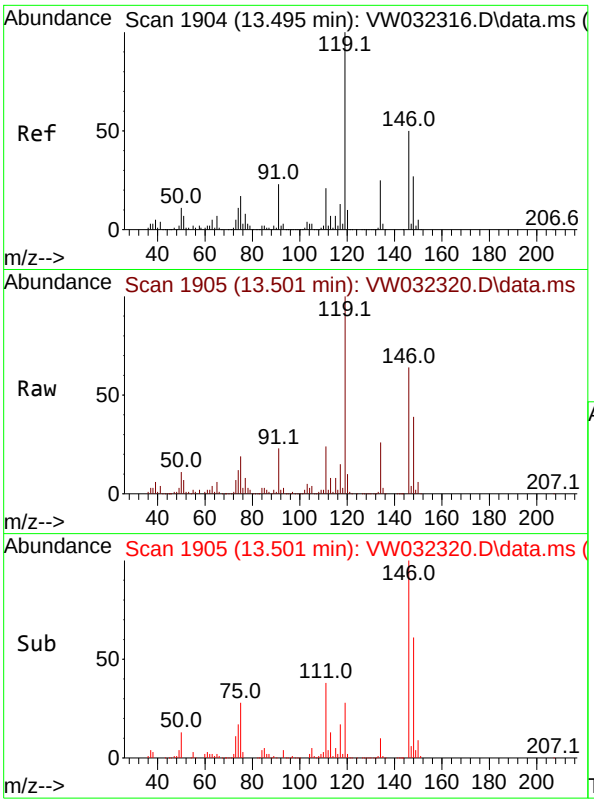


#86
p-Isopropyltoluene
Concen: 52.697 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:119 Resp: 763912

Ion	Ratio	Lower	Upper
119	100		
134	24.9	12.6	37.6
91	24.0	12.4	37.0

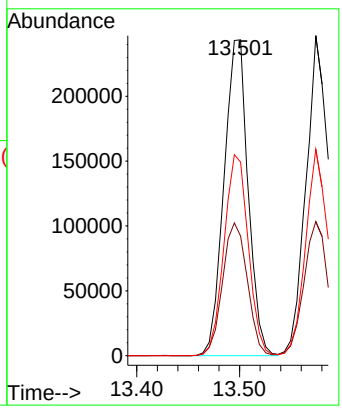




#87
1,3-Dichlorobenzene
Concen: 50.518 ug/l
RT: 13.501 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:146 Resp: 39734

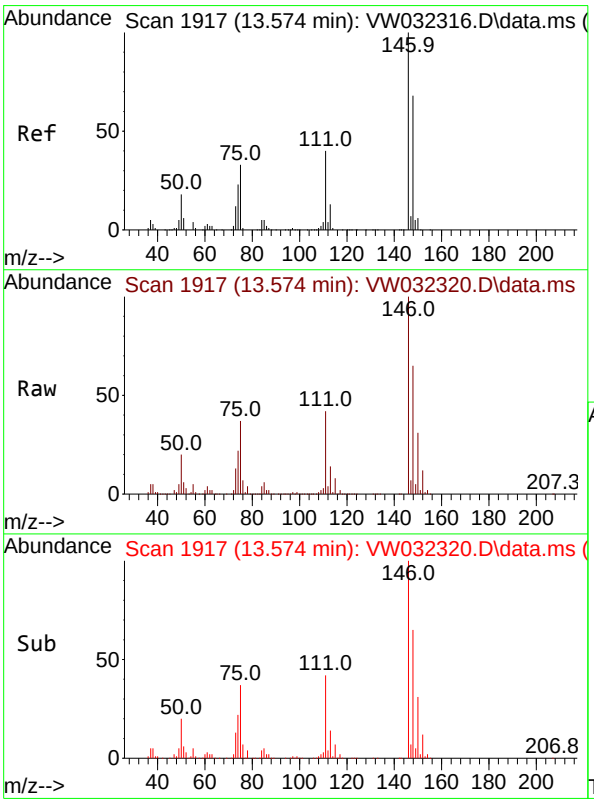
Ion	Ratio	Lower	Upper
146	100		
111	43.0	20.6	61.9
148	64.0	30.6	92.0



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

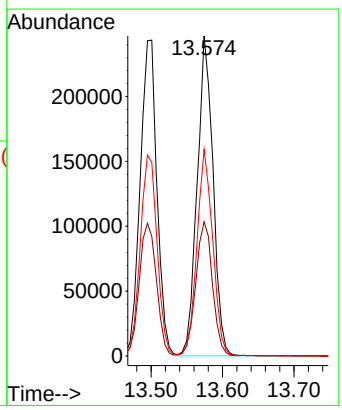
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

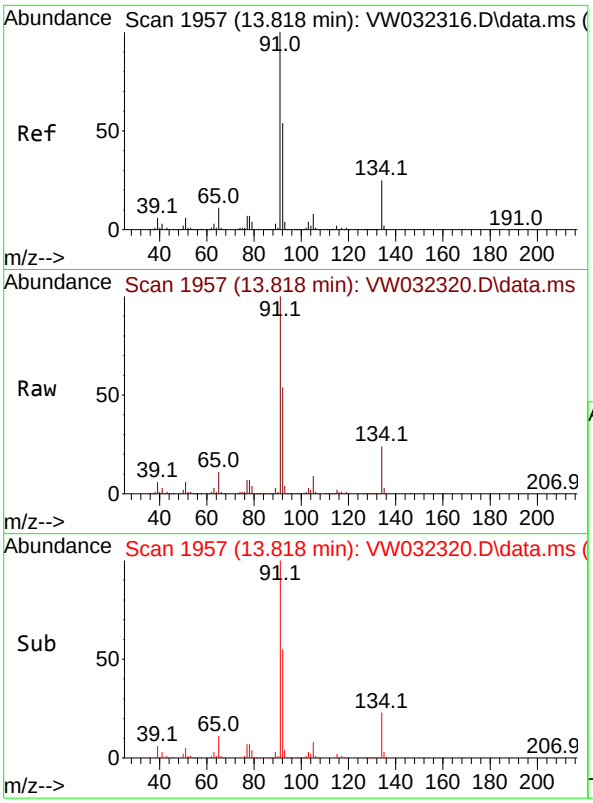


#88
1,4-Dichlorobenzene
Concen: 48.372 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:146 Resp: 380433

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.3	63.7
148	64.2	33.4	100.1

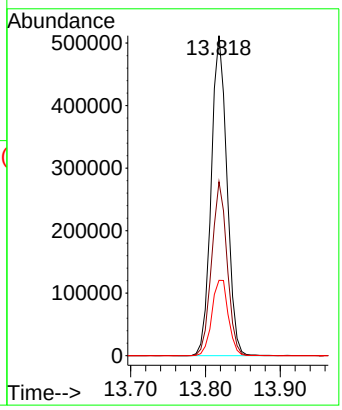




#89
n-Butylbenzene
Concen: 52.880 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 91 Resp: 74845

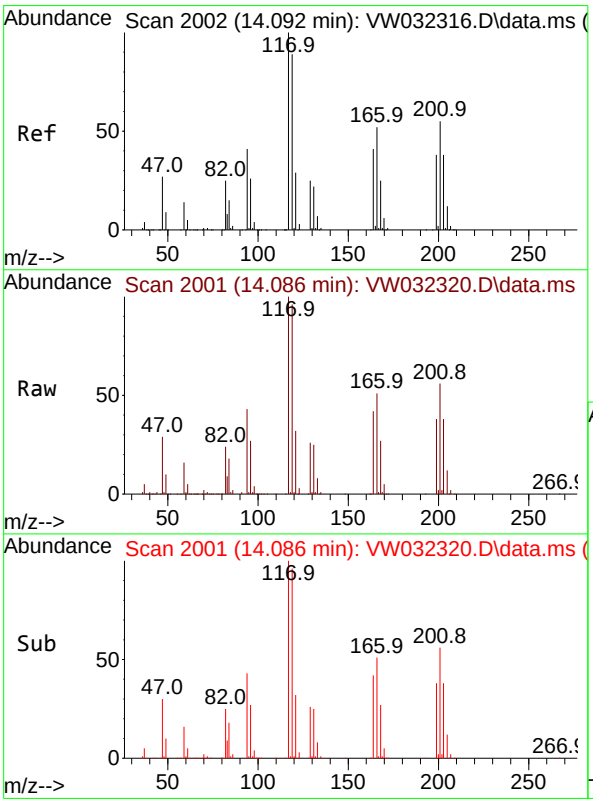
Ion	Ratio	Lower	Upper
91	100		
92	53.6	27.0	81.0
134	24.8	13.1	39.3



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

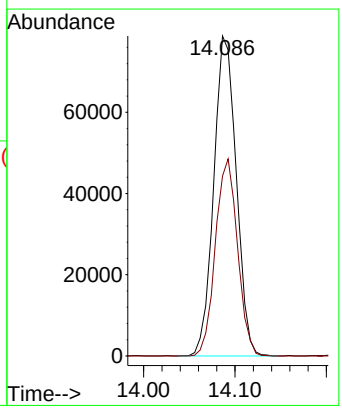
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

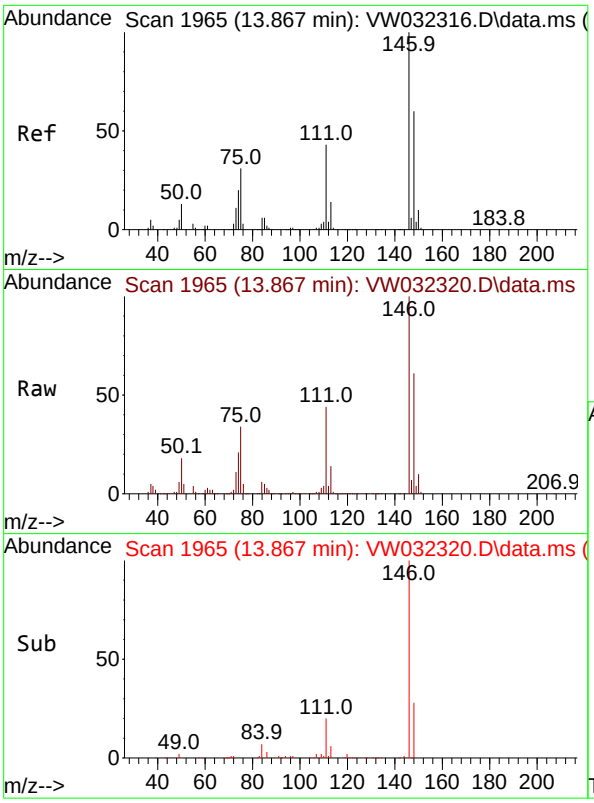


#90
Hexachloroethane
Concen: 51.903 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:117 Resp: 134862

Ion	Ratio	Lower	Upper
117	100		
201	60.5	32.8	98.4

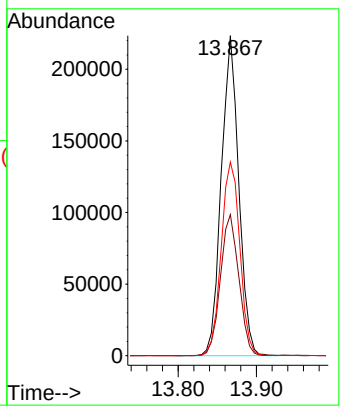




#91
1,2-Dichlorobenzene
Concen: 48.810 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:146 Resp: 34703

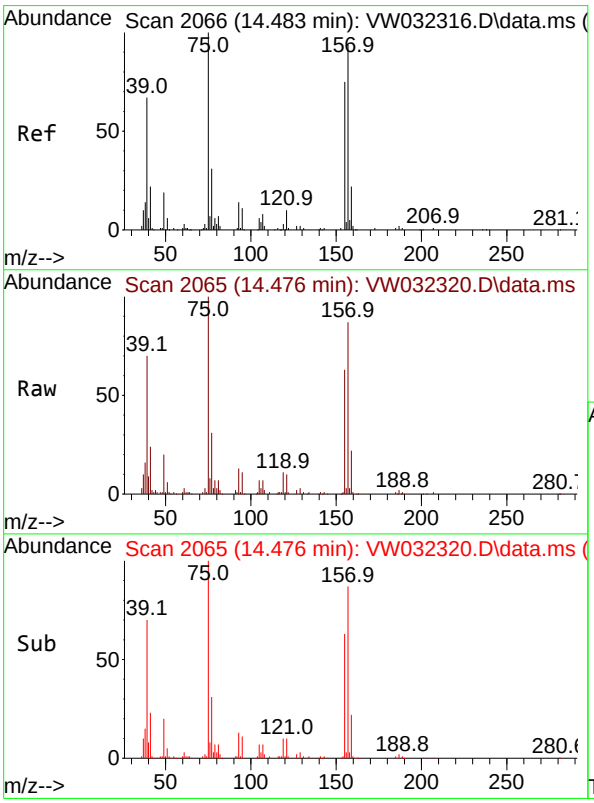
Ion	Ratio	Lower	Upper
146	100		
111	46.4	23.4	70.0
148	64.5	34.1	102.3



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

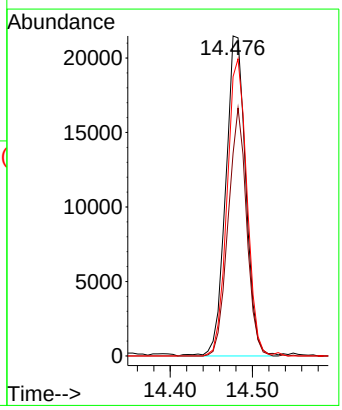
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

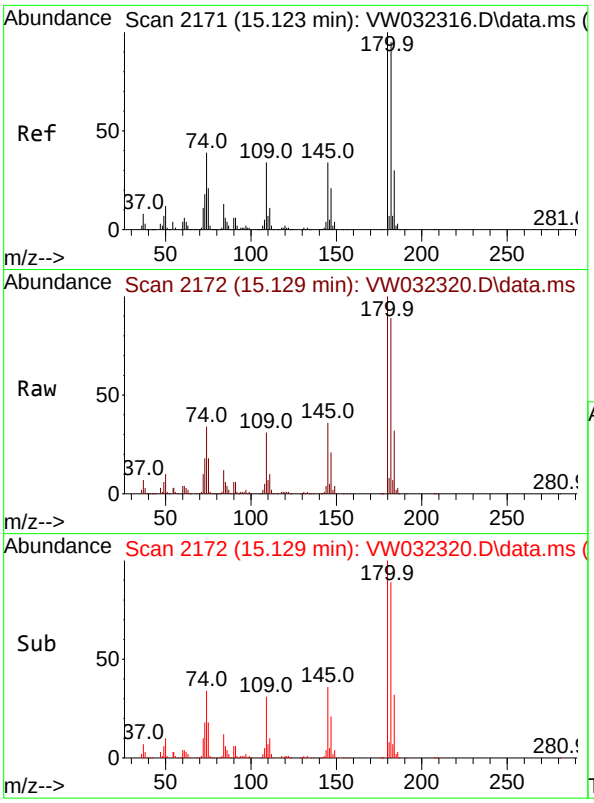


#92
1,2-Dibromo-3-Chloropropane
Concen: 52.139 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion: 75 Resp: 36524

Ion	Ratio	Lower	Upper
75	100		
155	71.1	40.8	122.5
157	91.4	51.8	155.4

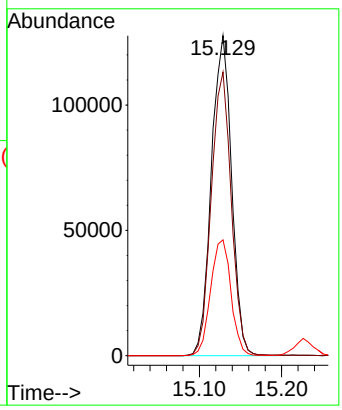




#93
1,2,4-Trichlorobenzene
Concen: 51.178 ug/l
RT: 15.129 min Scan# 21
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:180 Resp: 21819

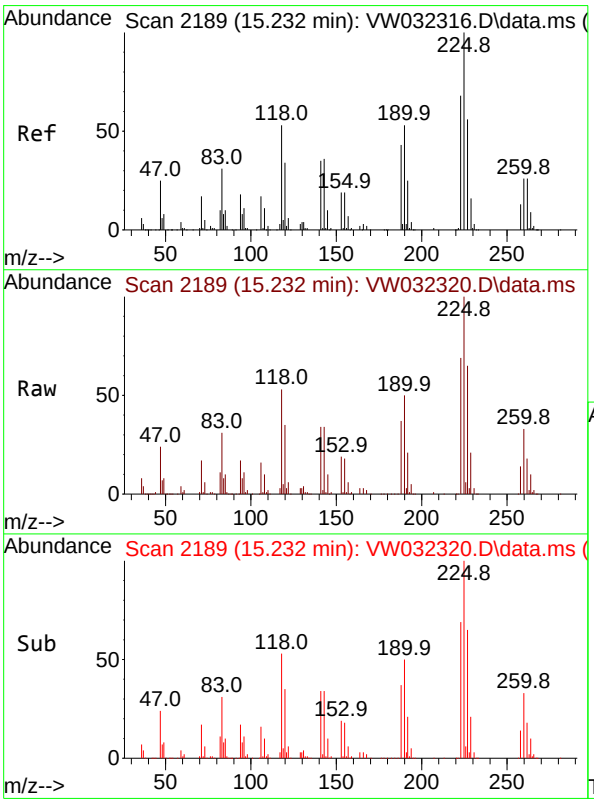
Ion	Ratio	Lower	Upper
180	100		
182	87.8	47.4	142.2
145	36.6	16.4	49.1



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

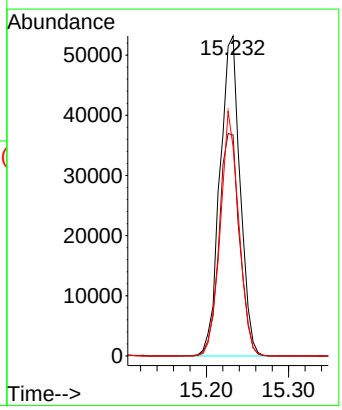
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

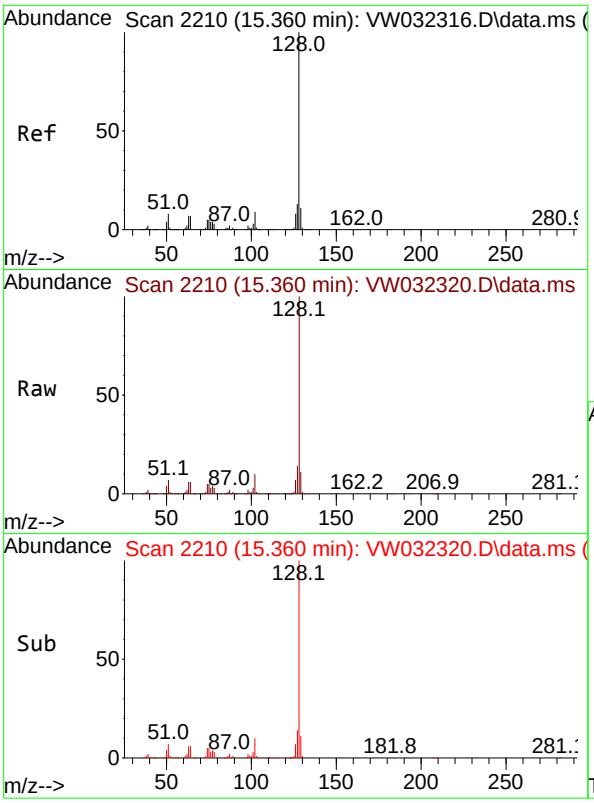


#94
Hexachlorobutadiene
Concen: 46.478 ug/l
RT: 15.232 min Scan# 2189
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:225 Resp: 90599

Ion	Ratio	Lower	Upper
225	100		
223	70.3	29.8	89.3
227	70.0	30.5	91.5

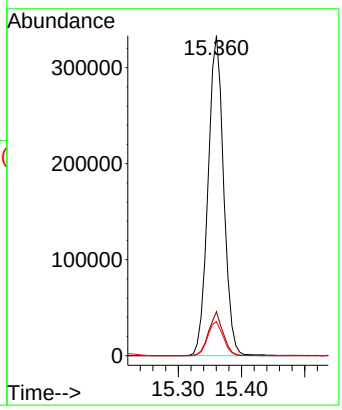




#95
Naphthalene
Concen: 55.881 ug/l
RT: 15.360 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:128 Resp: 57214

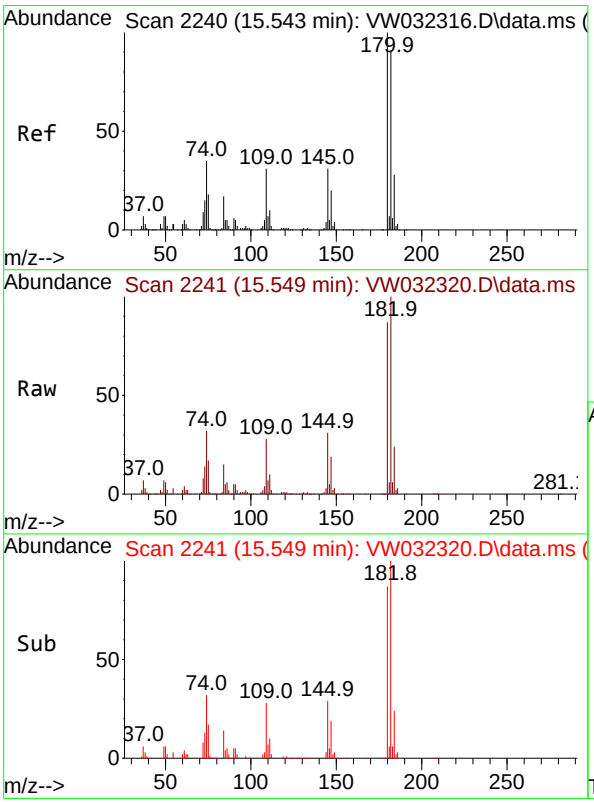
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.6	16.0
129	10.6	8.4	12.6



Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Manual Integrations
APPROVED

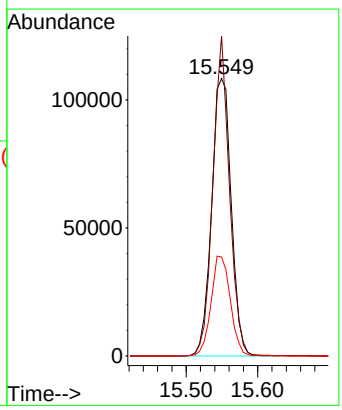
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.417 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.006 min
Lab File: VW032320.D
Acq: 01 Oct 2025 16:04

Tgt Ion:180 Resp: 206623

Ion	Ratio	Lower	Upper
180	100		
182	97.4	47.7	143.1
145	35.4	17.2	51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032320.D
Acq On : 01 Oct 2025 16:04
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Quant Time: Oct 02 21:27:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 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	99	0.00
2	T	Dichlorodifluoromethane	0.314	0.295	6.1	111	0.00
3	P	Chloromethane	0.484	0.484	0.0	115	0.00
4	C	Vinyl Chloride	0.578	0.556	3.8#	104	0.00
5	T	Bromomethane	0.425	0.402	5.4	104	0.00
6	T	Chloroethane	0.382	0.370	3.1	103	0.00
7	T	Trichlorofluoromethane	0.433	0.432	0.2	102	0.00
8	T	Diethyl Ether	0.375	0.372	0.8	107	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.519	0.501	3.5	107	-0.01
10	T	Methyl Iodide	0.741	0.702	5.3	100	0.00
11	T	Tert butyl alcohol	0.055	0.054	1.8	110	0.00
12	CM	1,1-Dichloroethene	0.564	0.561	0.5#	107	0.00
13	T	Acrolein	0.090	0.084	6.7	103	0.00
14	T	Allyl chloride	0.952	0.948	0.4	103	0.00
15	T	Acrylonitrile	0.195	0.202	-3.6	107	0.00
16	T	Acetone	0.202	0.185	8.4	100	0.00
17	T	Carbon Disulfide	1.538	1.522	1.0	105	0.00
18	T	Methyl Acetate	0.578	0.625	-8.1	99	0.00
19	T	Methyl tert-butyl Ether	1.110	1.140	-2.7	106	0.00
20	T	Methylene Chloride	0.838	0.677	19.2	106	0.00
21	T	trans-1,2-Dichloroethene	0.624	0.631	-1.1	106	0.00
22	T	Diisopropyl ether	1.979	2.027	-2.4	106	0.00
23	T	Vinyl Acetate	1.322	1.394	-5.4	110	0.00
24	P	1,1-Dichloroethane	1.203	1.201	0.2	105	0.00
25	T	2-Butanone	0.275	0.279	-1.5	106	0.00
26	T	2,2-Dichloropropane	0.615	0.597	2.9	103	0.00
27	T	cis-1,2-Dichloroethene	0.749	0.764	-2.0	106	0.00
28	T	Bromochloromethane	0.566	0.572	-1.1	104	0.00
29	T	Tetrahydrofuran	0.173	0.185	-6.9	107	0.00
30	C	Chloroform	1.220	1.244	-2.0#	108	0.00
31	T	Cyclohexane	1.027	0.989	3.7	108	0.00
32	T	1,1,1-Trichloroethane	0.864	0.864	0.0	105	0.00
33	S	1,2-Dichloroethane-d4	0.729	0.739	-1.4	105	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35	S	Dibromofluoromethane	0.324	0.318	1.9	106	0.00
36	T	1,1-Dichloropropene	0.457	0.454	0.7	106	0.00
37	T	Ethyl Acetate	0.304	0.316	-3.9	111	0.00
38	T	Carbon Tetrachloride	0.430	0.427	0.7	108	0.00
39	T	Methylcyclohexane	0.551	0.568	-3.1	112	0.00
40	TM	Benzene	1.432	1.398	2.4	106	0.00
41	T	Methacrylonitrile	0.164	0.188	-14.6	117	0.00
42	TM	1,2-Dichloroethane	0.469	0.457	2.6	106	0.00
43	T	Isopropyl Acetate	0.540	0.560	-3.7	110	0.00
44	TM	Trichloroethene	0.335	0.328	2.1	108	0.00
45	C	1,2-Dichloropropane	0.358	0.353	1.4#	106	0.00
46	T	Dibromomethane	0.220	0.219	0.5	106	0.00
47	T	Bromodichloromethane	0.503	0.504	-0.2	108	0.00
48	T	Methyl methacrylate	0.262	0.277	-5.7	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032320.D
Acq On : 01 Oct 2025 16:04
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Quant Time: Oct 02 21:27:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 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	0.003	0.003	0.0	106	0.00
50	S	Toluene-d8	1.195	1.189	0.5	102	0.00
51	T	4-Methyl-2-Pentanone	0.313	0.324	-3.5	106	0.00
52	CM	Toluene	0.892	0.893	-0.1#	107	0.00
53	T	t-1,3-Dichloropropene	0.488	0.500	-2.5	107	0.00
54	T	cis-1,3-Dichloropropene	0.562	0.564	-0.4	106	0.00
55	T	1,1,2-Trichloroethane	0.294	0.293	0.3	107	0.00
56	T	Ethyl methacrylate	0.411	0.431	-4.9	108	0.00
57	T	1,3-Dichloropropane	0.519	0.513	1.2	105	0.00
58	T	2-Chloroethyl Vinyl ether	0.219	0.243	-11.0	103	0.00
59	T	2-Hexanone	0.220	0.231	-5.0	108	0.00
60	T	Dibromochloromethane	0.334	0.335	-0.3	105	0.00
61	T	1,2-Dibromoethane	0.287	0.285	0.7	105	0.00
62	S	4-Bromofluorobenzene	0.452	0.436	3.5	100	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
64	T	Tetrachloroethene	0.299	0.297	0.7	109	0.00
65	PM	Chlorobenzene	1.100	1.075	2.3	107	0.00
66	T	1,1,1,2-Tetrachloroethane	0.343	0.333	2.9	107	0.00
67	C	Ethyl Benzene	1.834	1.853	-1.0#	109	0.00
68	T	m/p-Xylenes	0.707	0.702	0.7	107	0.00
69	T	o-Xylene	0.661	0.668	-1.1	107	0.00
70	T	Styrene	1.155	1.193	-3.3	108	0.00
71	P	Bromoform	0.196	0.201	-2.6	109	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.421	3.563	-4.2	108	0.00
74	T	N-amyl acetate	1.091	1.172	-7.4	111	0.00
75	P	1,1,2,2-Tetrachloroethane	0.849	0.863	-1.6	107	0.00
76	T	1,2,3-Trichloropropane	0.658	0.669	-1.7	111	0.00
77	T	Bromobenzene	0.825	0.835	-1.2	103	0.00
78	T	n-propylbenzene	4.273	4.415	-3.3	108	0.00
79	T	2-Chlorotoluene	2.613	2.680	-2.6	107	0.00
80	T	1,3,5-Trimethylbenzene	2.958	3.098	-4.7	107	0.00
81	T	trans-1,4-Dichloro-2-butene	0.260	0.282	-8.5	106	0.00
82	T	4-Chlorotoluene	2.778	2.819	-1.5	107	0.00
83	T	tert-Butylbenzene	2.427	2.597	-7.0	111	0.00
84	T	1,2,4-Trimethylbenzene	3.008	3.099	-3.0	105	0.00
85	T	sec-Butylbenzene	3.709	3.840	-3.5	108	0.00
86	T	p-Isopropyltoluene	3.077	3.243	-5.4	109	0.00
87	T	1,3-Dichlorobenzene	1.670	1.687	-1.0	106	0.00
88	T	1,4-Dichlorobenzene	1.670	1.615	3.3	105	0.00
89	T	n-Butylbenzene	3.005	3.178	-5.8	110	0.00
90	T	Hexachloroethane	0.552	0.573	-3.8	110	0.00
91	T	1,2-Dichlorobenzene	1.509	1.473	2.4	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.149	0.155	-4.0	106	0.00
93	T	1,2,4-Trichlorobenzene	0.905	0.926	-2.3	112	0.00
94	T	Hexachlorobutadiene	0.414	0.385	7.0	107	0.00
95	T	Naphthalene	2.174	2.429	-11.7	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032320.D
Acq On : 01 Oct 2025 16:04
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Quant Time: Oct 02 21:27:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 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	0.853	0.877	-2.8	109	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032320.D
Acq On : 01 Oct 2025 16:04
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Quant Time: Oct 02 21:27:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 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	99	0.00
2	T	Dichlorodifluoromethane	50.000	47.081	5.8	111	0.00
3	P	Chloromethane	50.000	49.950	0.1	115	0.00
4	C	Vinyl Chloride	50.000	48.072	3.9#	104	0.00
5	T	Bromomethane	50.000	47.340	5.3	104	0.00
6	T	Chloroethane	50.000	48.536	2.9	103	0.00
7	T	Trichlorofluoromethane	50.000	49.907	0.2	102	0.00
8	T	Diethyl Ether	50.000	49.634	0.7	107	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	48.296	3.4	107	-0.01
10	T	Methyl Iodide	50.000	47.371	5.3	100	0.00
11	T	Tert butyl alcohol	250.000	246.126	1.5	110	0.00
12	CM	1,1-Dichloroethene	50.000	49.800	0.4#	107	0.00
13	T	Acrolein	250.000	233.328	6.7	103	0.00
14	T	Allyl chloride	50.000	49.818	0.4	103	0.00
15	T	Acrylonitrile	250.000	258.222	-3.3	107	0.00
16	T	Acetone	250.000	228.796	8.5	100	0.00
17	T	Carbon Disulfide	50.000	49.511	1.0	105	0.00
18	T	Methyl Acetate	50.000	54.058	-8.1	99	0.00
19	T	Methyl tert-butyl Ether	50.000	51.342	-2.7	106	0.00
20	T	Methylene Chloride	50.000	50.746	-1.5	106	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.555	-1.1	106	0.00
22	T	Diisopropyl ether	50.000	51.202	-2.4	106	0.00
23	T	Vinyl Acetate	250.000	263.598	-5.4	110	0.00
24	P	1,1-Dichloroethane	50.000	49.949	0.1	105	0.00
25	T	2-Butanone	250.000	253.341	-1.3	106	0.00
26	T	2,2-Dichloropropane	50.000	48.528	2.9	103	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.954	-1.9	106	0.00
28	T	Bromochloromethane	50.000	50.575	-1.2	104	0.00
29	T	Tetrahydrofuran	250.000	267.648	-7.1	107	0.00
30	C	Chloroform	50.000	50.980	-2.0#	108	0.00
31	T	Cyclohexane	50.000	48.179	3.6	108	0.00
32	T	1,1,1-Trichloroethane	50.000	49.989	0.0	105	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.638	-1.3	105	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35	S	Dibromofluoromethane	50.000	49.108	1.8	106	0.00
36	T	1,1-Dichloropropene	50.000	49.661	0.7	106	0.00
37	T	Ethyl Acetate	50.000	51.871	-3.7	111	0.00
38	T	Carbon Tetrachloride	50.000	49.617	0.8	108	0.00
39	T	Methylcyclohexane	50.000	51.537	-3.1	112	0.00
40	TM	Benzene	50.000	48.794	2.4	106	0.00
41	T	Methacrylonitrile	50.000	57.284	-14.6	117	0.00
42	TM	1,2-Dichloroethane	50.000	48.701	2.6	106	0.00
43	T	Isopropyl Acetate	50.000	51.877	-3.8	110	0.00
44	TM	Trichloroethene	50.000	48.904	2.2	108	0.00
45	C	1,2-Dichloropropane	50.000	49.299	1.4#	106	0.00
46	T	Dibromomethane	50.000	49.841	0.3	106	0.00
47	T	Bromodichloromethane	50.000	50.162	-0.3	108	0.00
48	T	Methyl methacrylate	50.000	52.884	-5.8	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032320.D
Acq On : 01 Oct 2025 16:04
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Quant Time: Oct 02 21:27:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 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	1058.229	-5.8	106	0.00
50	S	Toluene-d8	50.000	49.731	0.5	102	0.00
51	T	4-Methyl-2-Pentanone	250.000	258.790	-3.5	106	0.00
52	CM	Toluene	50.000	50.061	-0.1#	107	0.00
53	T	t-1,3-Dichloropropene	50.000	51.234	-2.5	107	0.00
54	T	cis-1,3-Dichloropropene	50.000	50.209	-0.4	106	0.00
55	T	1,1,2-Trichloroethane	50.000	49.869	0.3	107	0.00
56	T	Ethyl methacrylate	50.000	52.367	-4.7	108	0.00
57	T	1,3-Dichloropropane	50.000	49.394	1.2	105	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	277.181	-10.9	103	0.00
59	T	2-Hexanone	250.000	262.215	-4.9	108	0.00
60	T	Dibromochloromethane	50.000	50.187	-0.4	105	0.00
61	T	1,2-Dibromoethane	50.000	49.732	0.5	105	0.00
62	S	4-Bromofluorobenzene	50.000	48.218	3.6	100	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
64	T	Tetrachloroethene	50.000	49.611	0.8	109	0.00
65	PM	Chlorobenzene	50.000	48.862	2.3	107	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.644	2.7	107	0.00
67	C	Ethyl Benzene	50.000	50.513	-1.0#	109	0.00
68	T	m/p-Xylenes	100.000	99.276	0.7	107	0.00
69	T	o-Xylene	50.000	50.523	-1.0	107	0.00
70	T	Styrene	50.000	51.667	-3.3	108	0.00
71	P	Bromoform	50.000	51.207	-2.4	109	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	52.076	-4.2	108	0.00
74	T	N-amyl acetate	50.000	53.697	-7.4	111	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.822	-1.6	107	0.00
76	T	1,2,3-Trichloropropane	50.000	50.813	-1.6	111	0.00
77	T	Bromobenzene	50.000	50.659	-1.3	103	0.00
78	T	n-propylbenzene	50.000	51.657	-3.3	108	0.00
79	T	2-Chlorotoluene	50.000	51.287	-2.6	107	0.00
80	T	1,3,5-Trimethylbenzene	50.000	52.365	-4.7	107	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	54.360	-8.7	106	0.00
82	T	4-Chlorotoluene	50.000	50.734	-1.5	107	0.00
83	T	tert-Butylbenzene	50.000	53.510	-7.0	111	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.522	-3.0	105	0.00
85	T	sec-Butylbenzene	50.000	51.774	-3.5	108	0.00
86	T	p-Isopropyltoluene	50.000	52.697	-5.4	109	0.00
87	T	1,3-Dichlorobenzene	50.000	50.518	-1.0	106	0.00
88	T	1,4-Dichlorobenzene	50.000	48.372	3.3	105	0.00
89	T	n-Butylbenzene	50.000	52.880	-5.8	110	0.00
90	T	Hexachloroethane	50.000	51.903	-3.8	110	0.00
91	T	1,2-Dichlorobenzene	50.000	48.810	2.4	106	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	52.139	-4.3	106	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.178	-2.4	112	0.00
94	T	Hexachlorobutadiene	50.000	46.478	7.0	107	0.00
95	T	Naphthalene	50.000	55.881	-11.8	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032320.D
Acq On : 01 Oct 2025 16:04
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ICVVW100125

Quant Time: Oct 02 21:27:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 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	51.417	-2.8	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 ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: AECO02

Lab Code: ACE SDG No.: Q3393

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: AECO02

Lab Code: ACE SDG No.: Q3393

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

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)
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

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

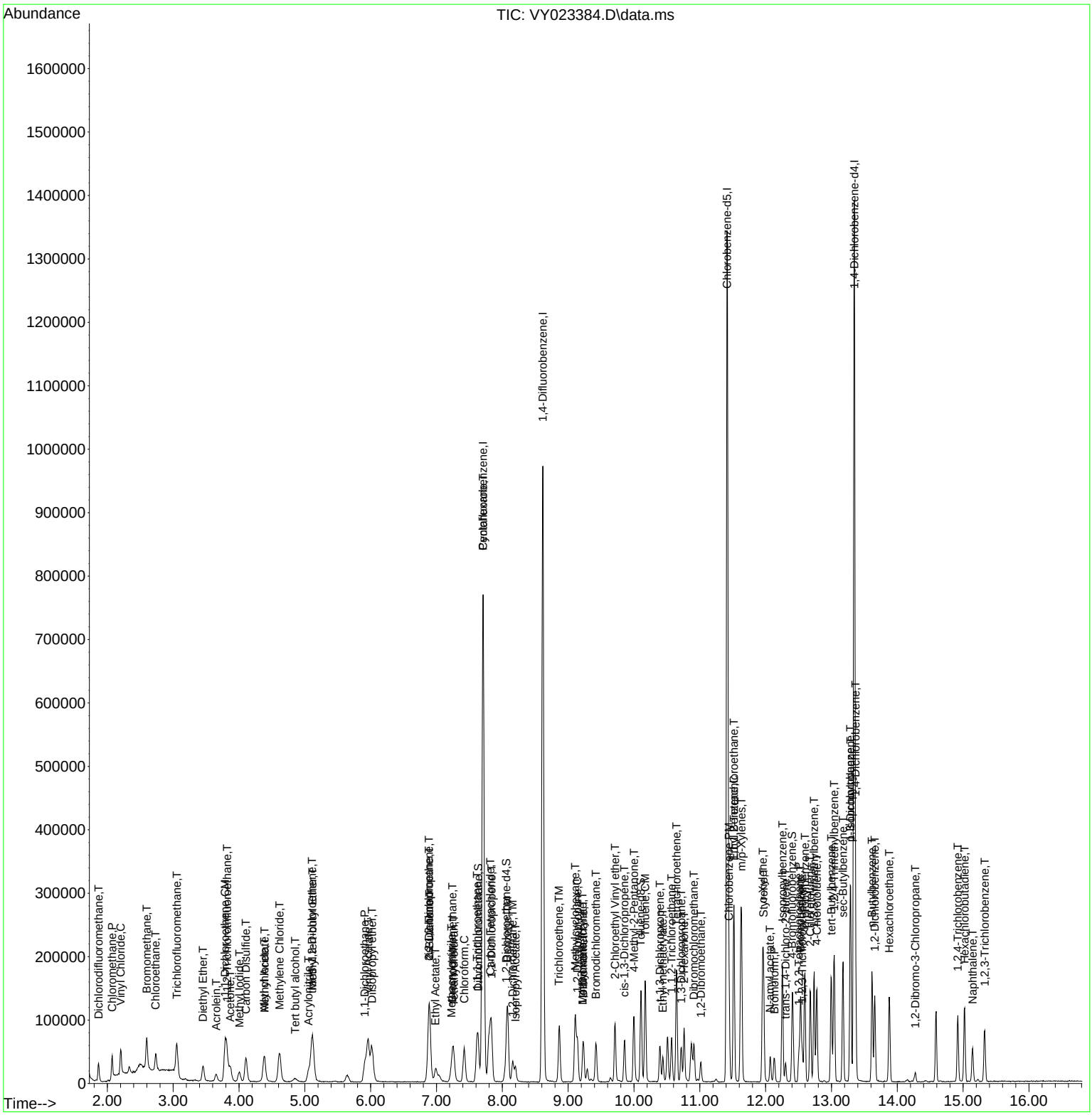
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023384.D
Acq On : 07 Oct 2025 09:17
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

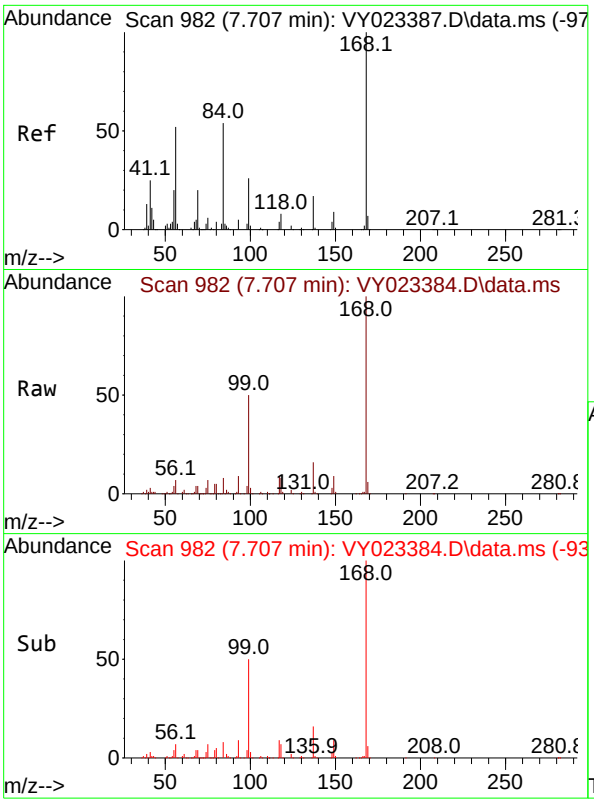
Quant Time: Oct 08 04:39:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

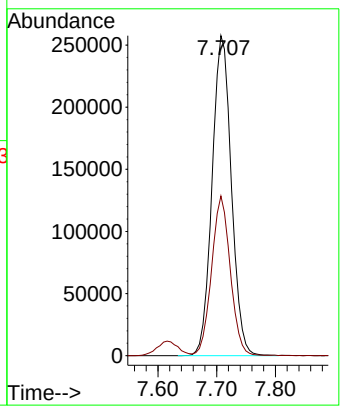




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:168 Resp: 58571

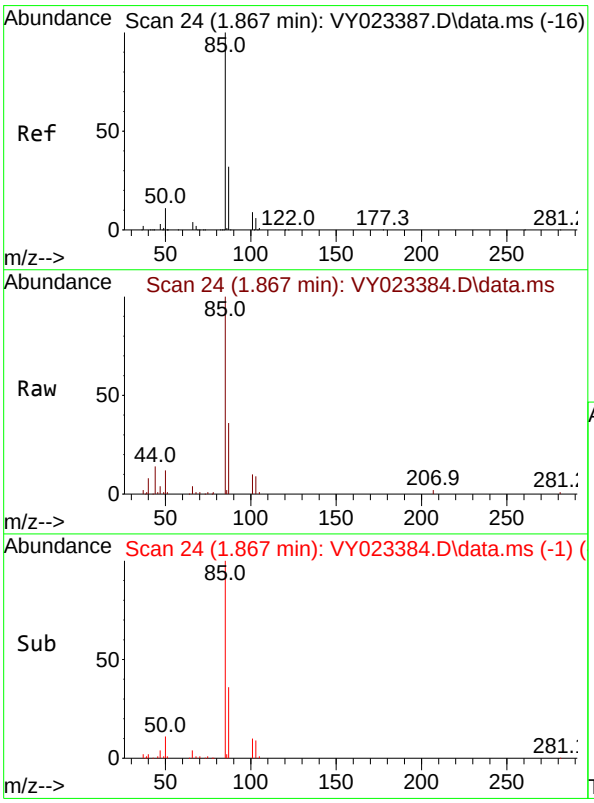
Ion	Ratio	Lower	Upper
168	100		
99	49.8	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

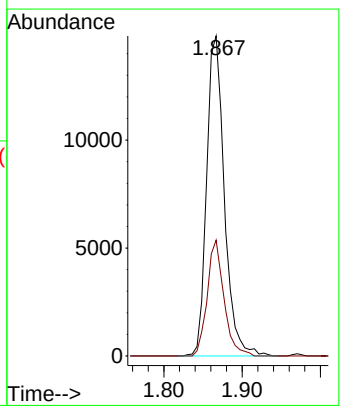
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

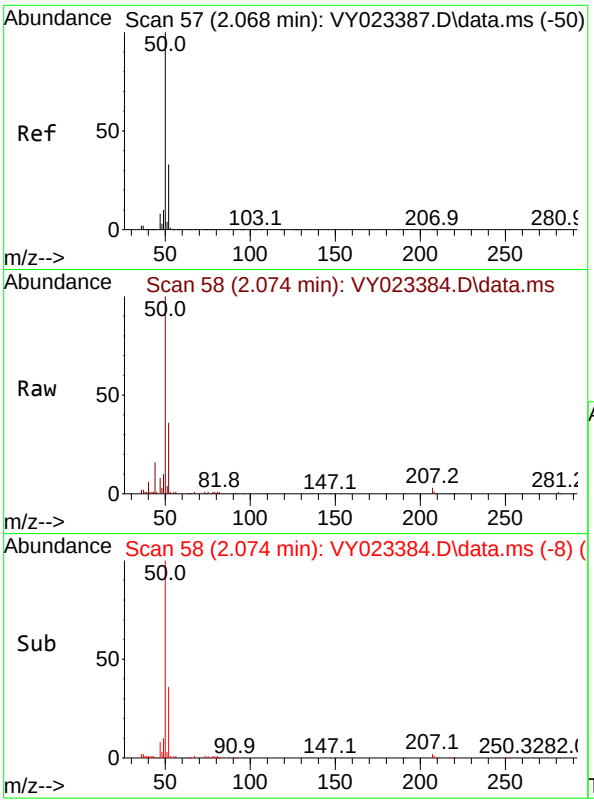


#2
Dichlorodifluoromethane
Concen: 5.038 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 85 Resp: 23245

Ion	Ratio	Lower	Upper
85	100		
87	36.2	16.0	47.9

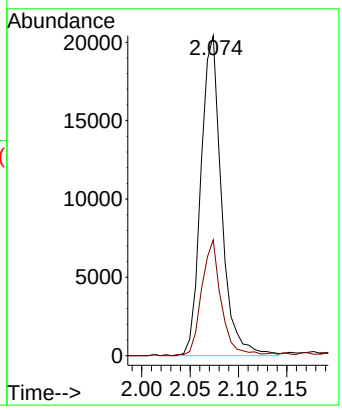




#3
Chloromethane
Concen: 4.627 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 50 Resp: 3034

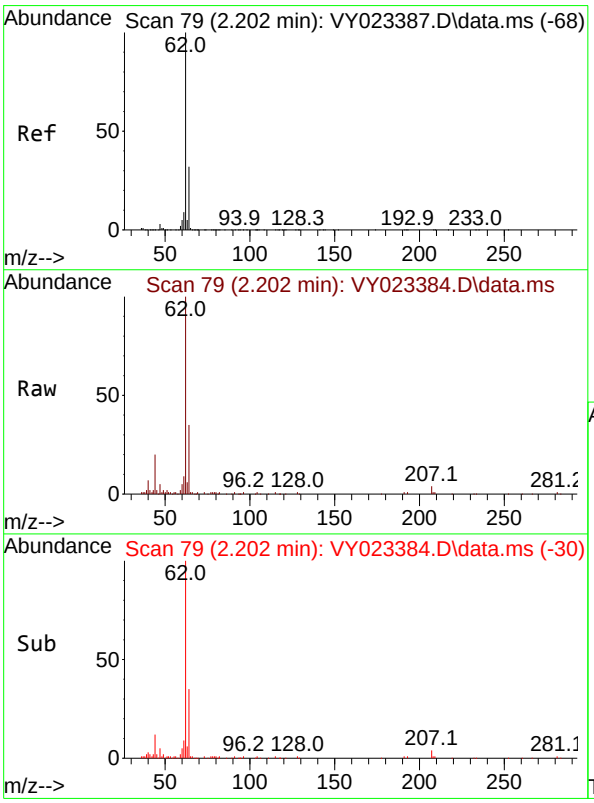
Ion	Ratio	Lower	Upper
50	100		
52	35.8	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

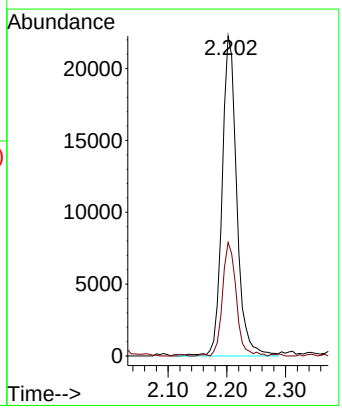
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

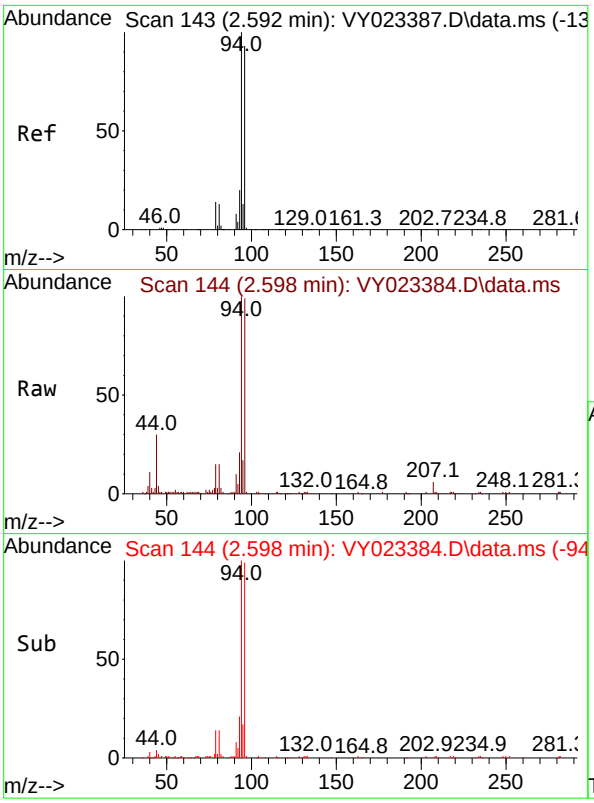


#4
Vinyl Chloride
Concen: 4.668 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 62 Resp: 38657

Ion	Ratio	Lower	Upper
62	100		
64	35.0	25.8	38.8

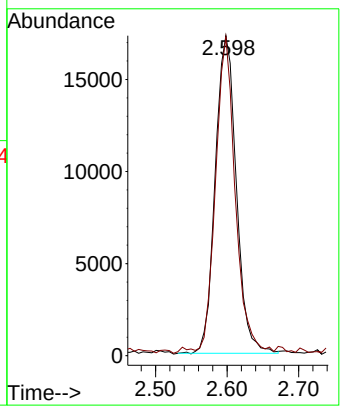




#5
Bromomethane
Concen: 5.184 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 94 Resp: 3521

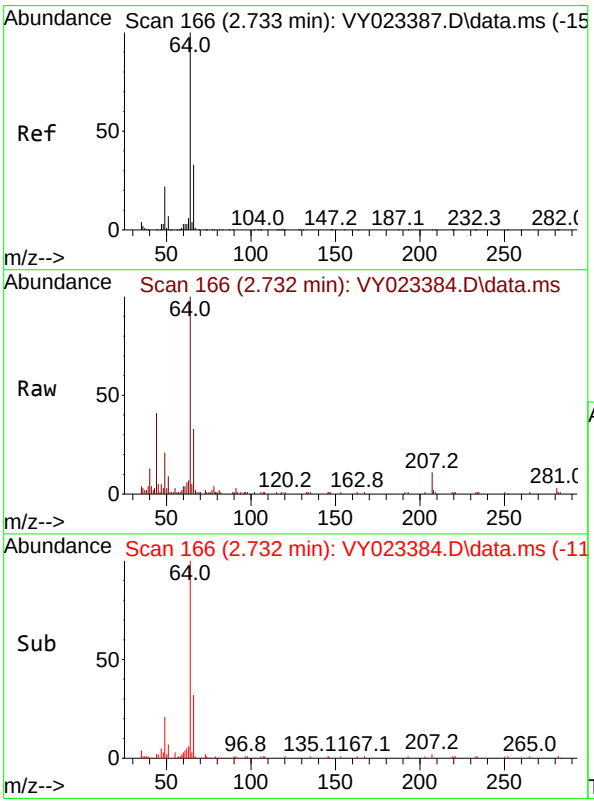
Ion	Ratio	Lower	Upper
94	100		
96	99.0	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

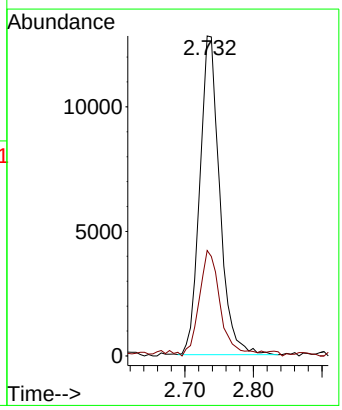
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

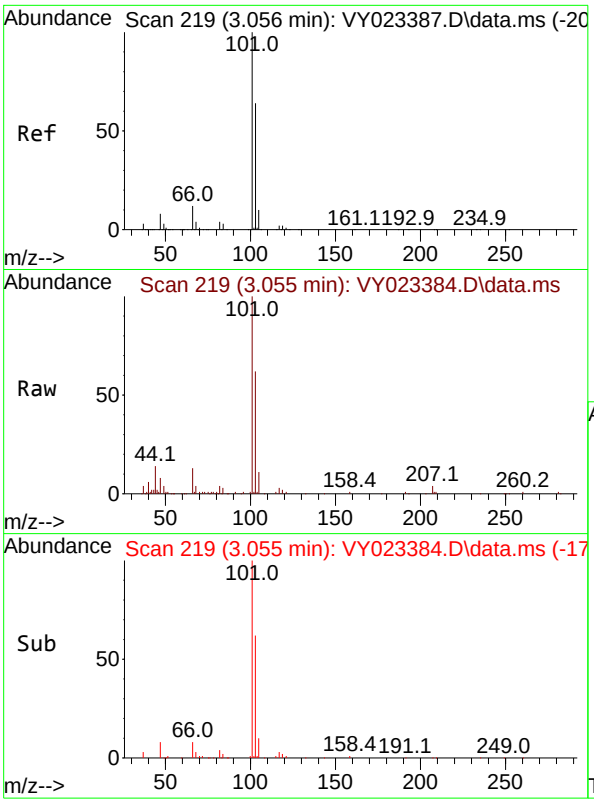


#6
Chloroethane
Concen: 4.597 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 64 Resp: 25848

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.2	39.4

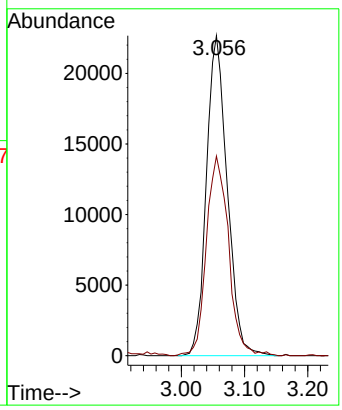




#7
Trichlorofluoromethane
Concen: 4.869 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:101 Resp: 5179

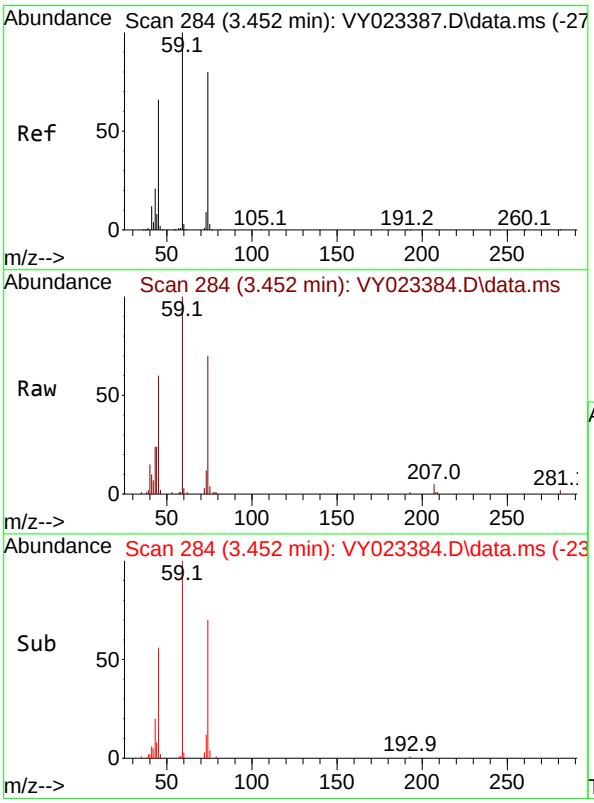
Ion	Ratio	Lower	Upper
101	100		
103	62.4	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

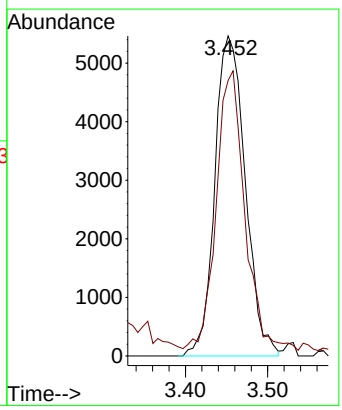
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

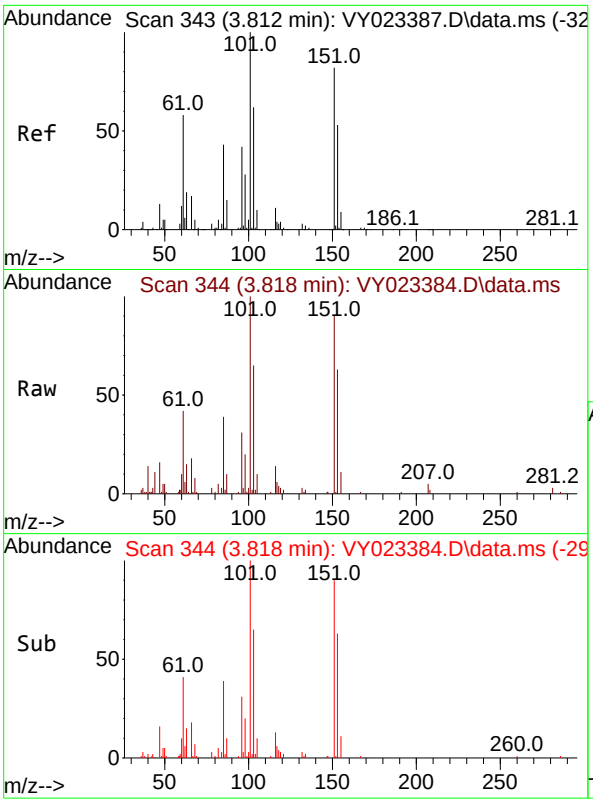


#8
Diethyl Ether
Concen: 5.060 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

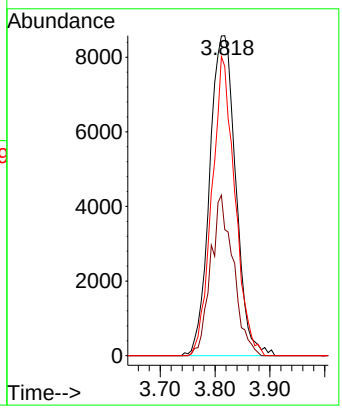
Tgt Ion:101 Resp: 2836

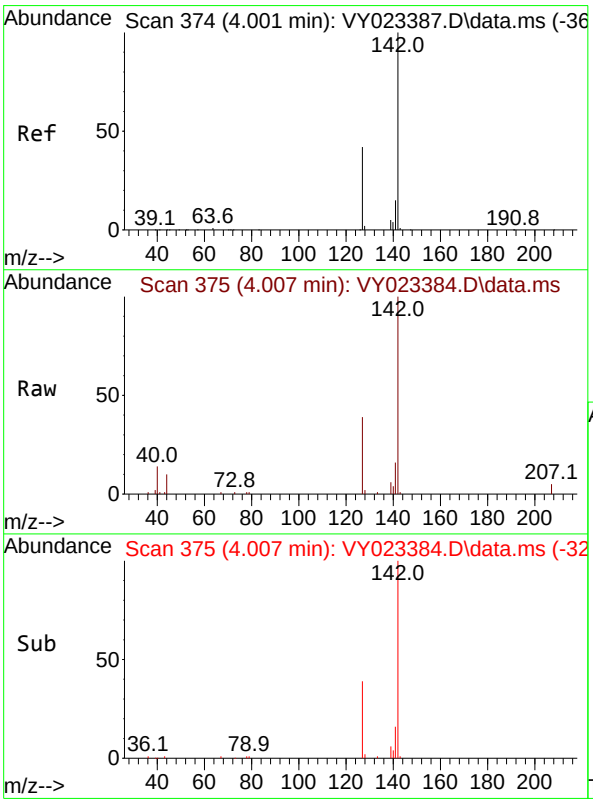
Ion	Ratio	Lower	Upper
101	100		
85	43.5	34.6	51.8
151	82.3	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

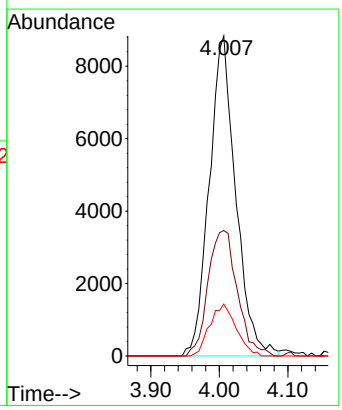


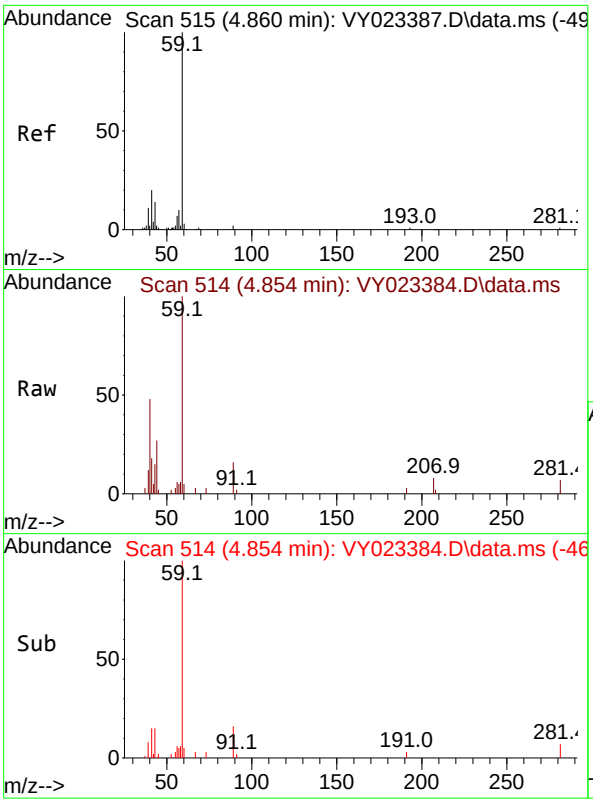


#10
Methyl Iodide
Concen: 3.606 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

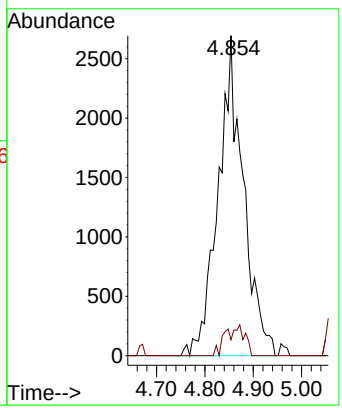




#11
Tert butyl alcohol
Concen: 32.746 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 59 Resp: 977

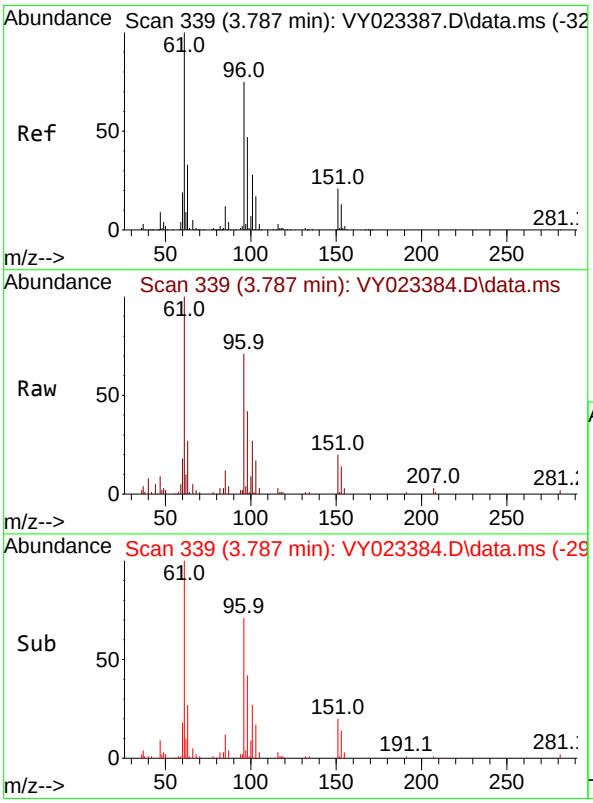
Ion	Ratio	Lower	Upper
59	100		
57	3.0	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

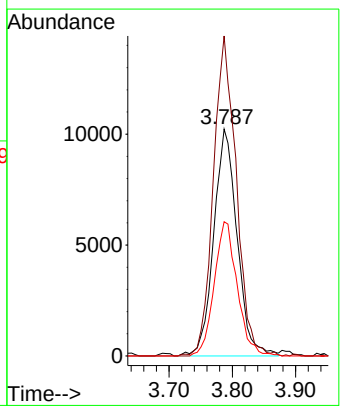
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

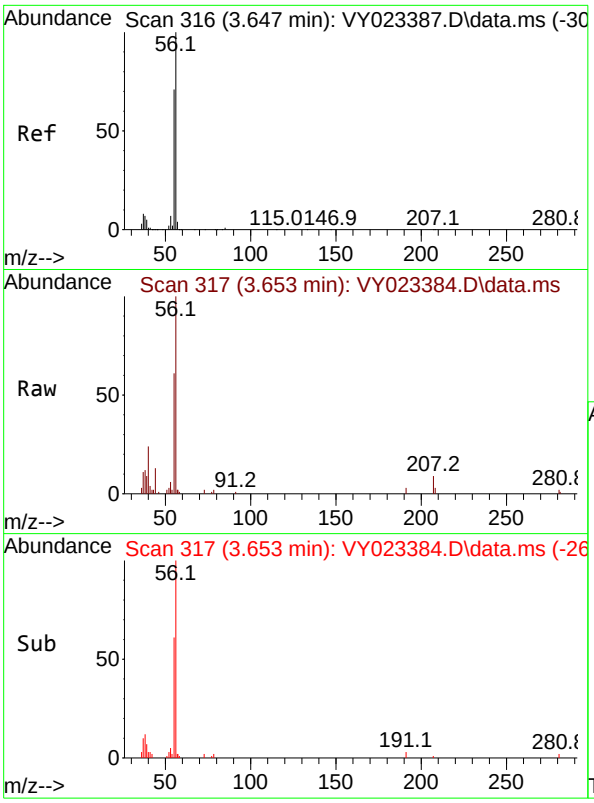


#12
1,1-Dichloroethene
Concen: 4.806 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

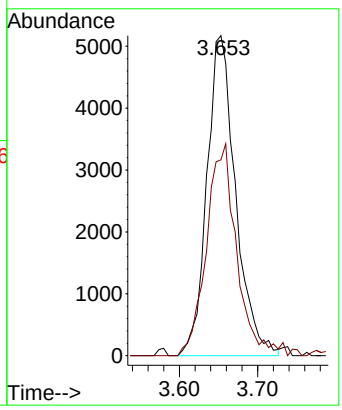




#13
Acrolein
Concen: 26.054 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 56 Resp: 1317

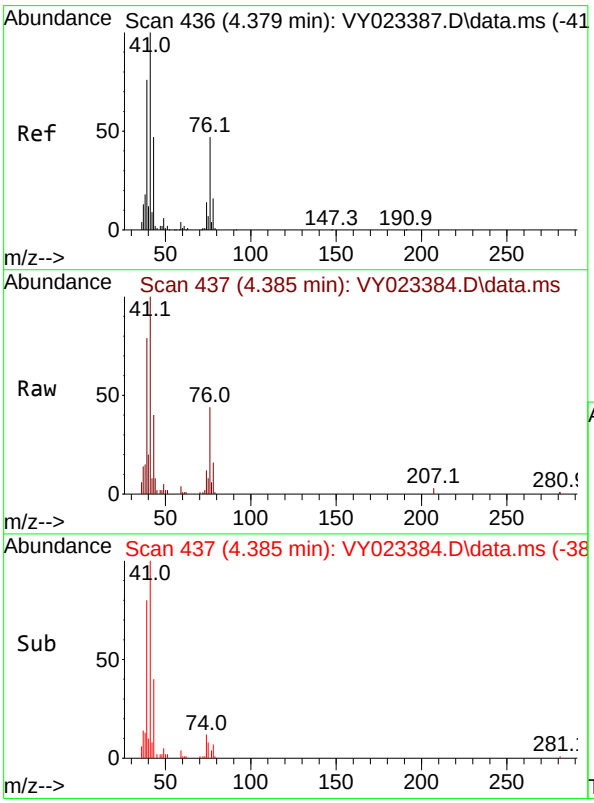
Ion	Ratio	Lower	Upper
56	100		
55	70.1	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

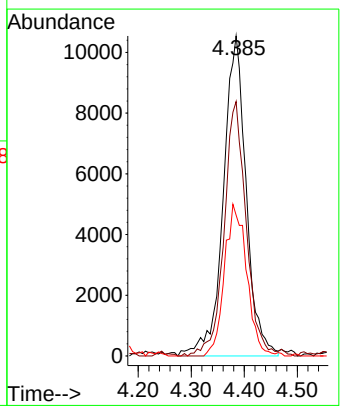
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

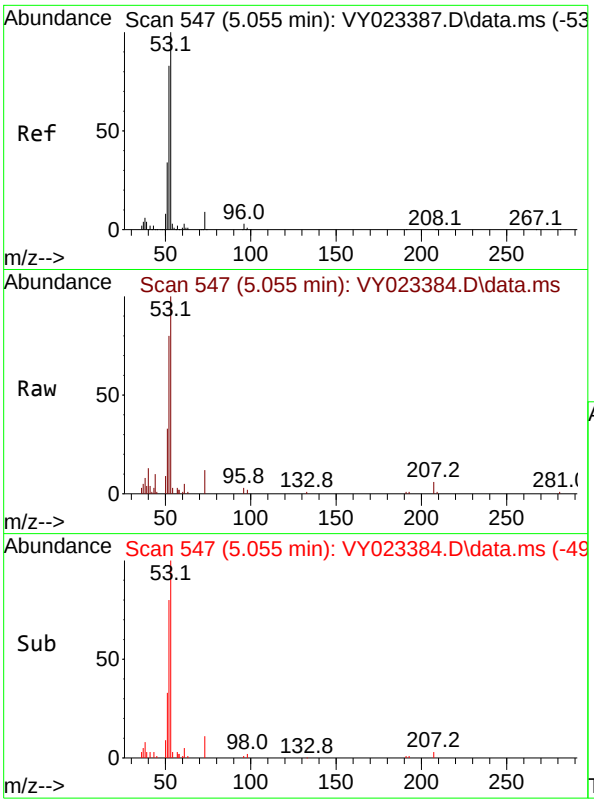


#14
Allyl chloride
Concen: 4.616 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

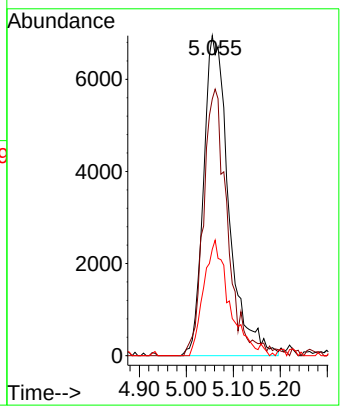




#15
Acrylonitrile
Concen: 23.754 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 53 Resp: 2589

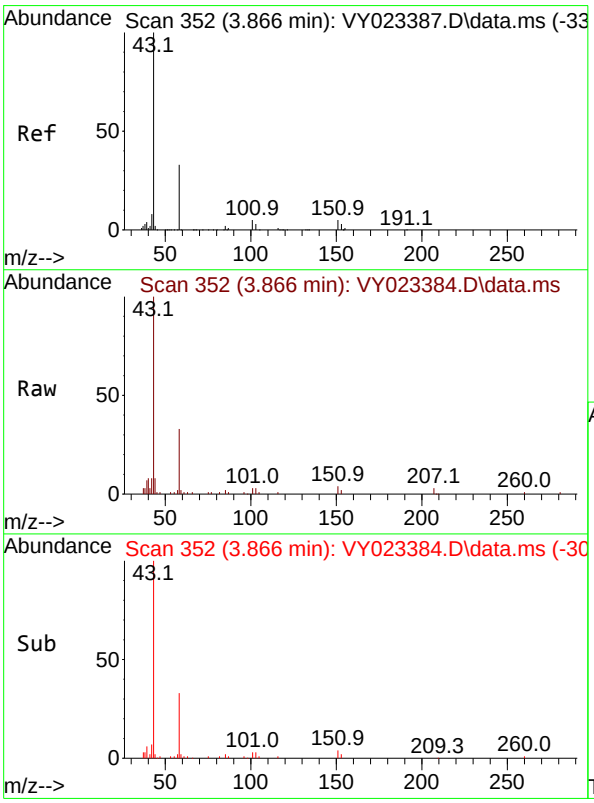
Ion	Ratio	Lower	Upper
53	100		
52	79.7	64.6	97.0
51	36.3	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

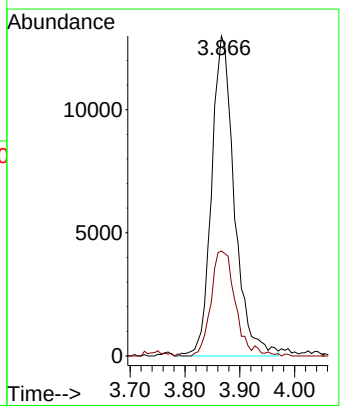
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

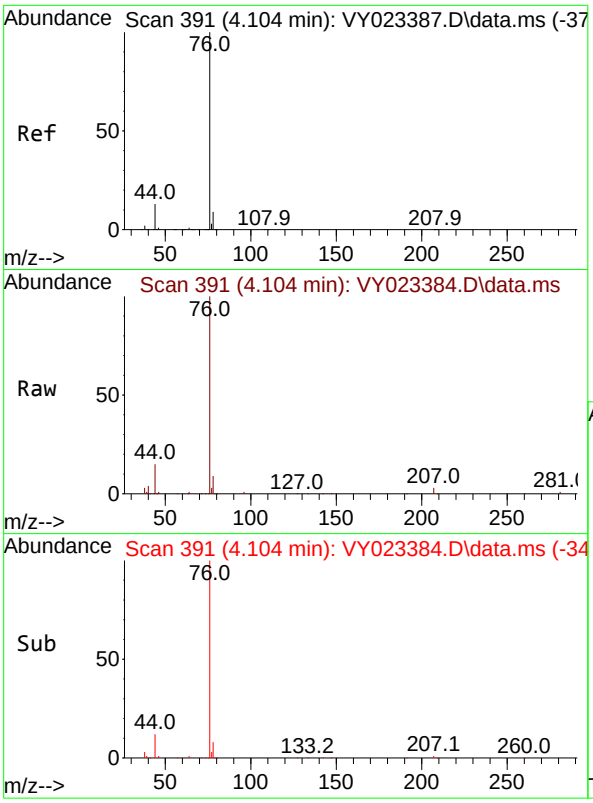


#16
Acetone
Concen: 32.940 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 37573

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.7	41.5

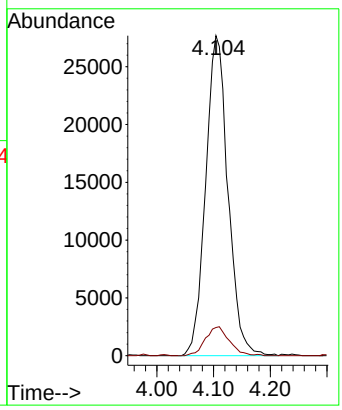




#17
Carbon Disulfide
Concen: 4.432 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 76 Resp: 7564

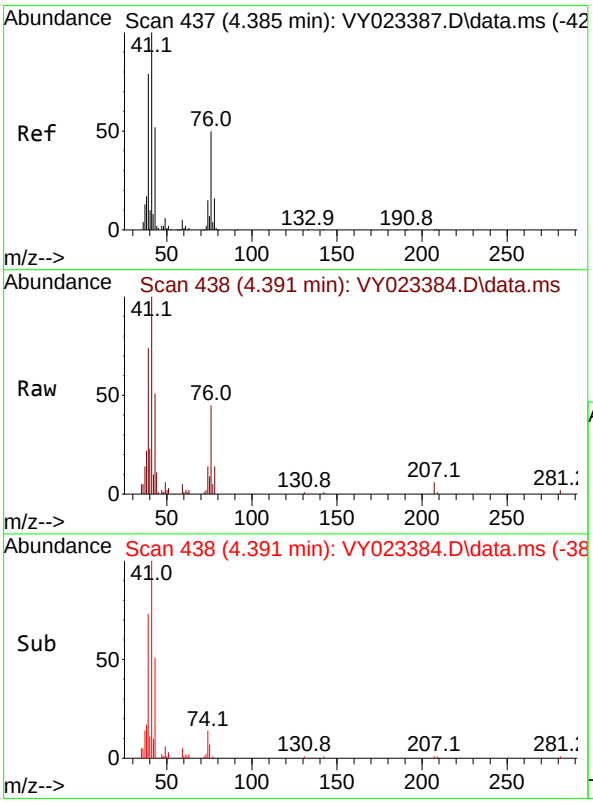
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

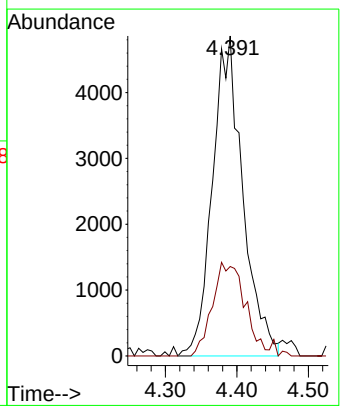
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

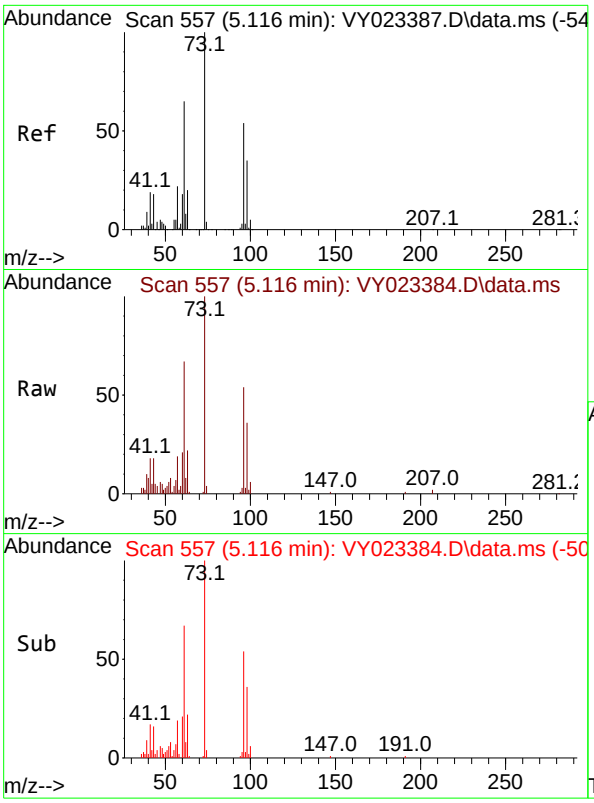


#18
Methyl Acetate
Concen: 4.926 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 14279

Ion	Ratio	Lower	Upper
43	100		
74	31.4	24.2	36.4

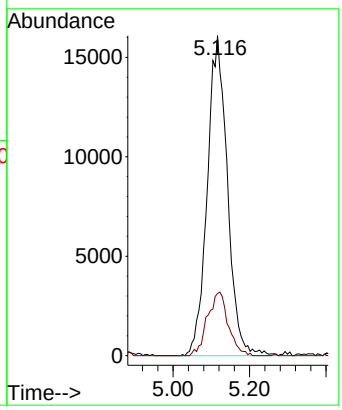




#19
Methyl tert-butyl Ether
Concen: 4.600 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 73 Resp: 5891

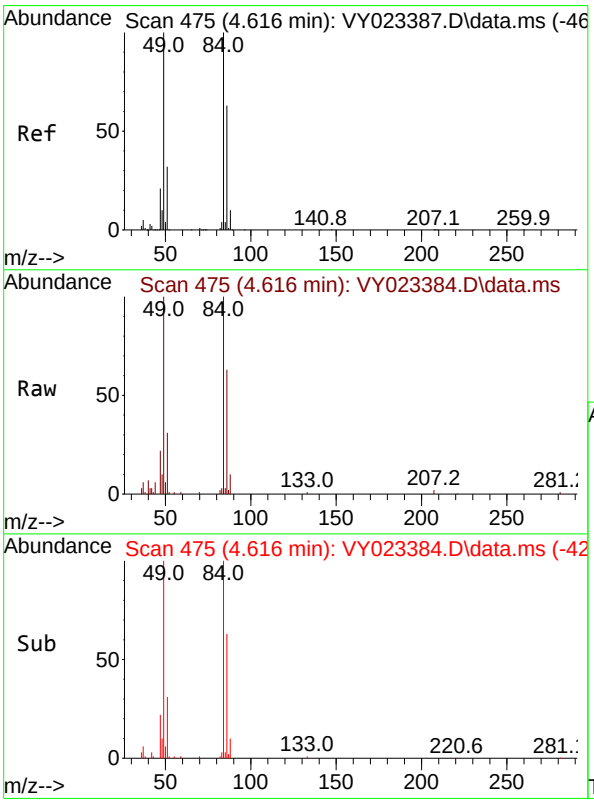
Ion	Ratio	Lower	Upper
73	100		
57	19.4	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

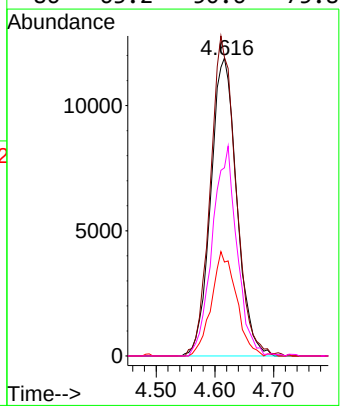
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

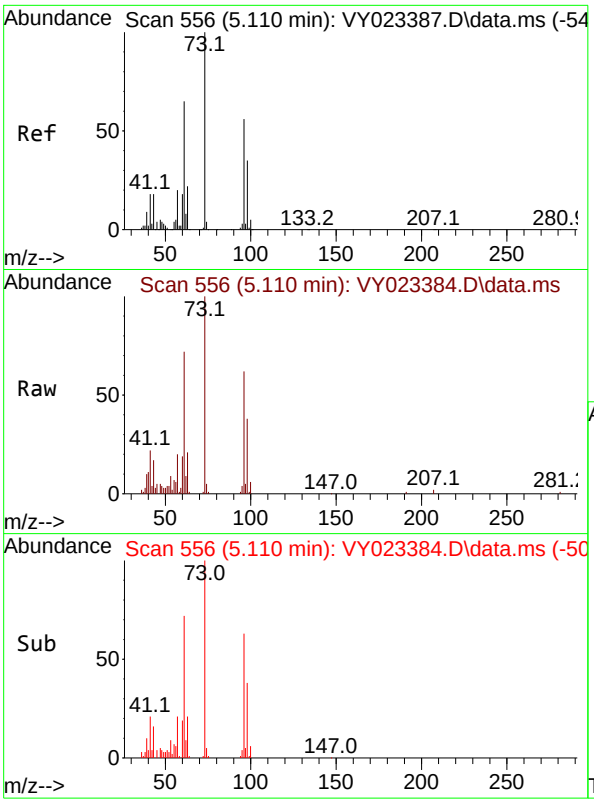


#20
Methylene Chloride
Concen: 5.917 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

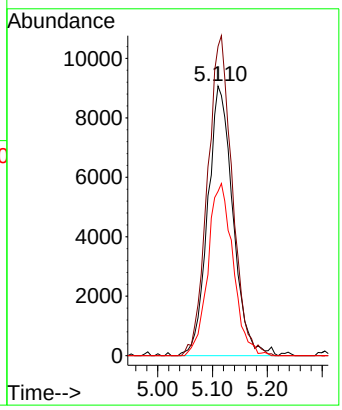




#21
trans-1,2-Dichloroethene
Concen: 4.754 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 96 Resp: 2892

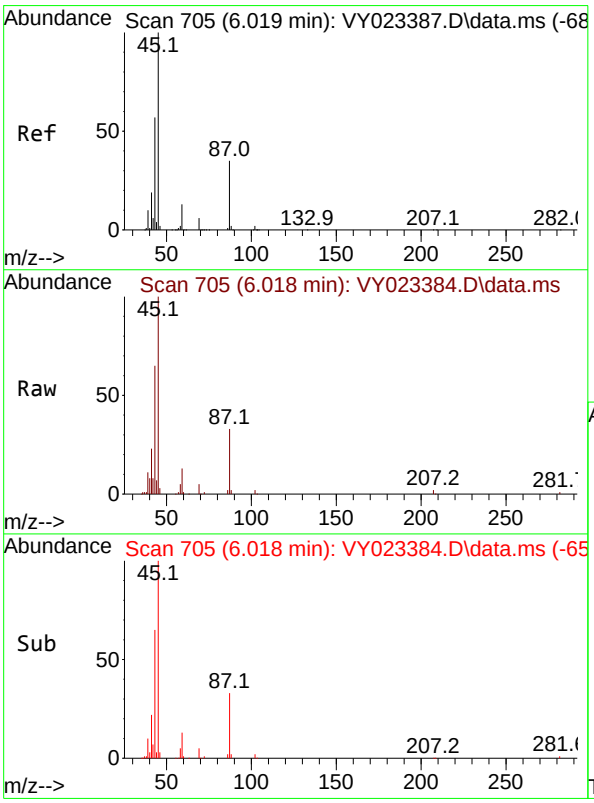
Ion	Ratio	Lower	Upper
96	100		
61	114.7	92.7	139.1
98	61.0	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

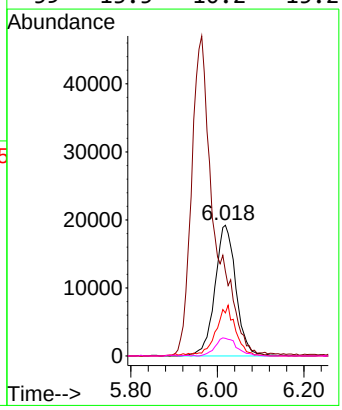
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

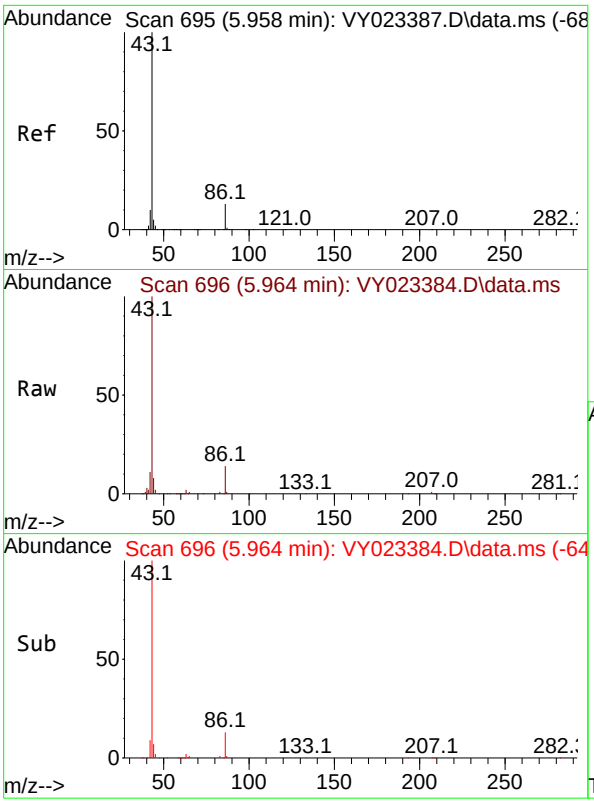


#22
Diisopropyl ether
Concen: 4.269 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

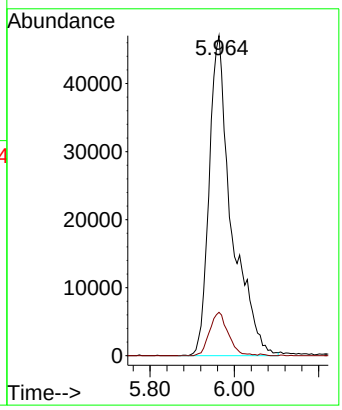




#23
Vinyl Acetate
Concen: 20.824 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 17385

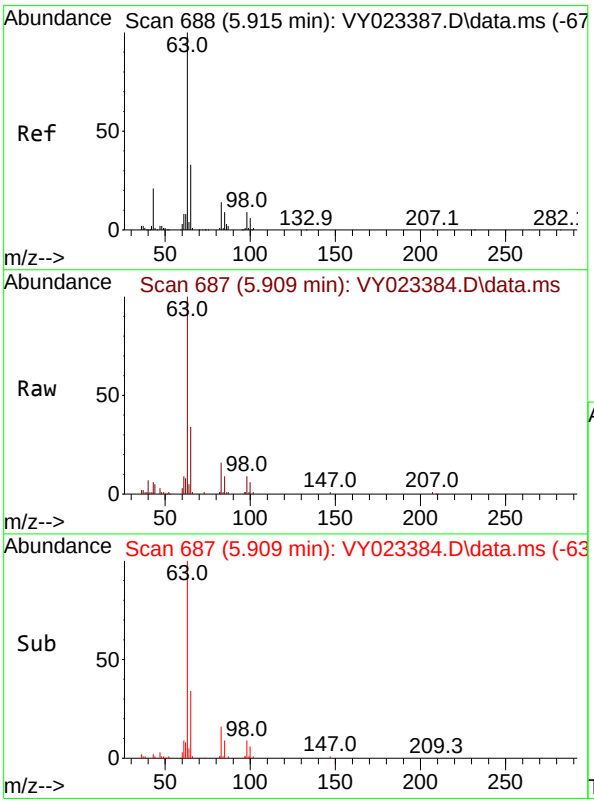
Ion	Ratio	Lower	Upper
43	100		
86	13.6	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

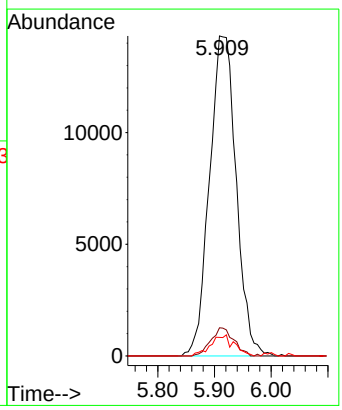
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

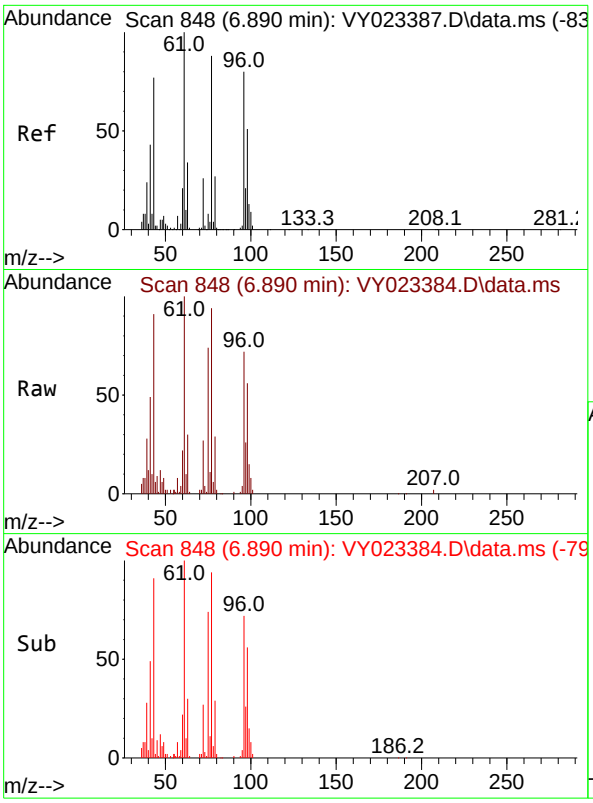


#24
1,1-Dichloroethane
Concen: 4.679 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

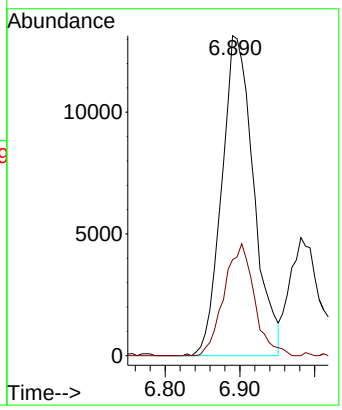
Tgt Ion: 43 Resp: 3899

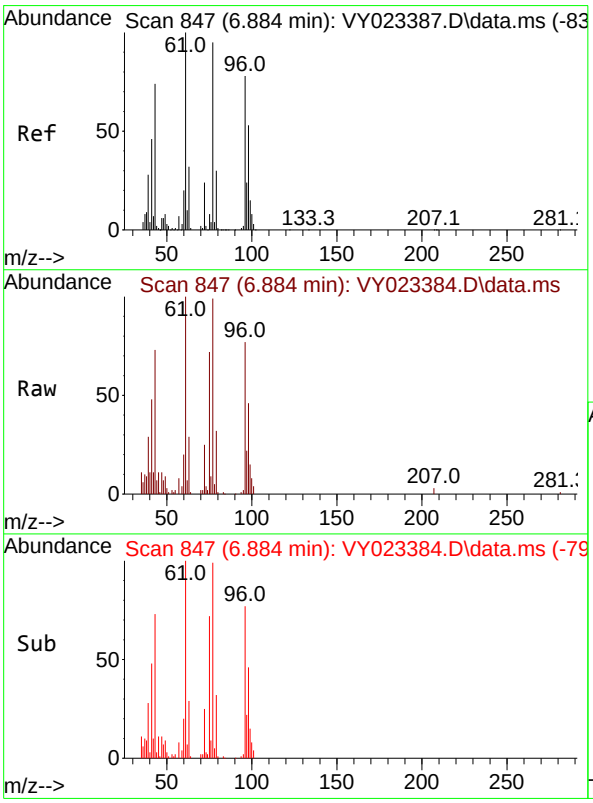
Ion	Ratio	Lower	Upper
43	100		
72	30.0	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

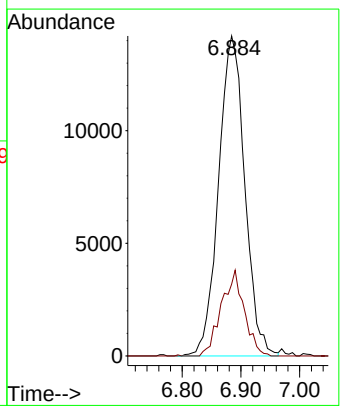


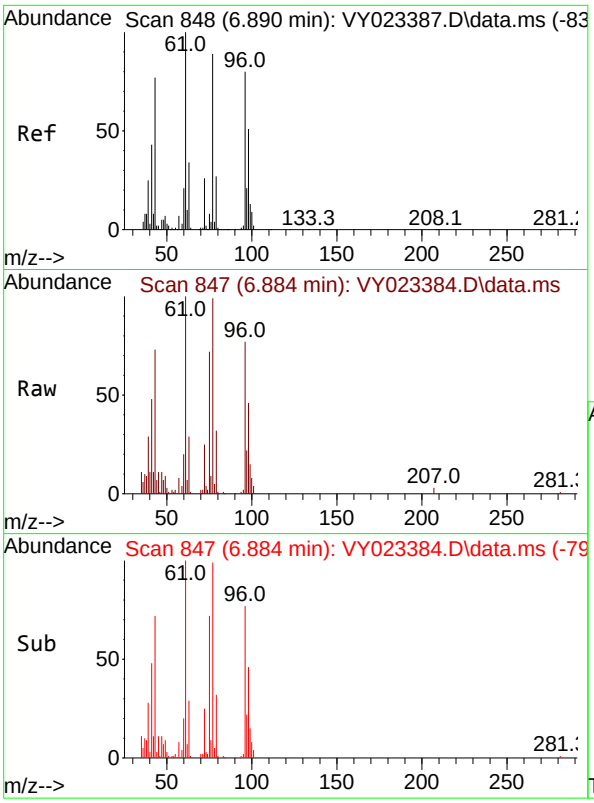


#26
2,2-Dichloropropane
Concen: 4.953 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

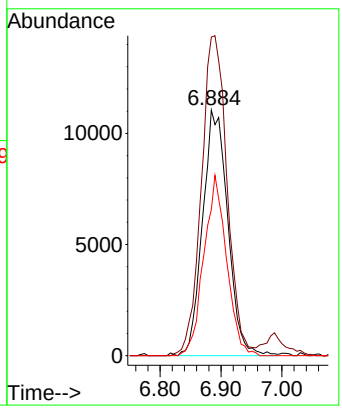
Tgt Ion: 96 Resp: 3174

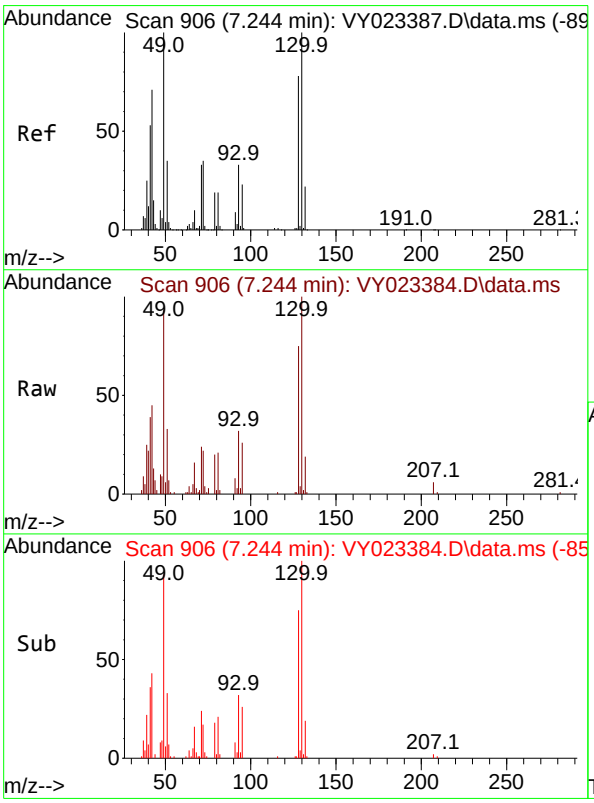
Ion	Ratio	Lower	Upper
96	100		
61	133.3	0.0	258.2
98	66.1	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

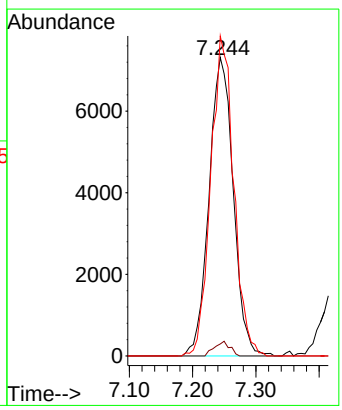


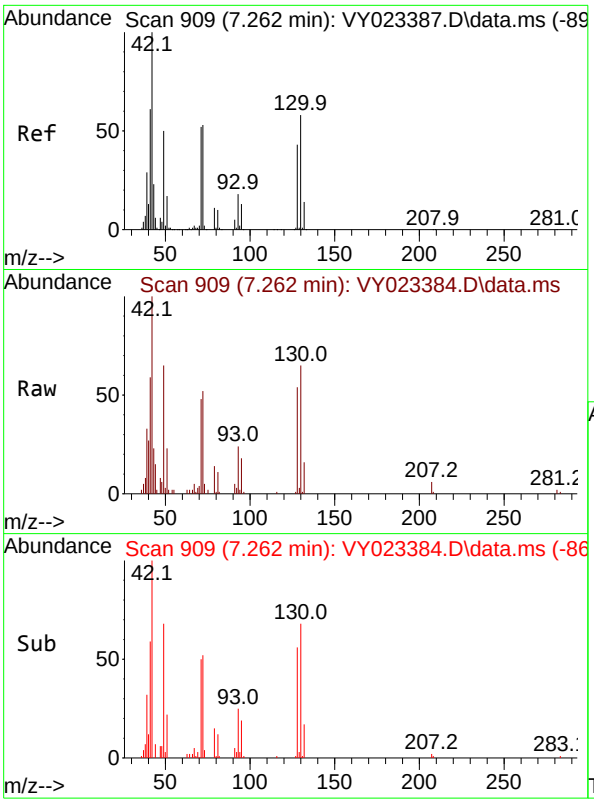


#28
Bromochloromethane
Concen: 5.006 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

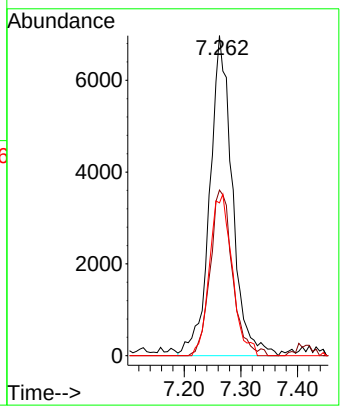




#29
Tetrahydrofuran
Concen: 23.059 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 42 Resp: 1929(

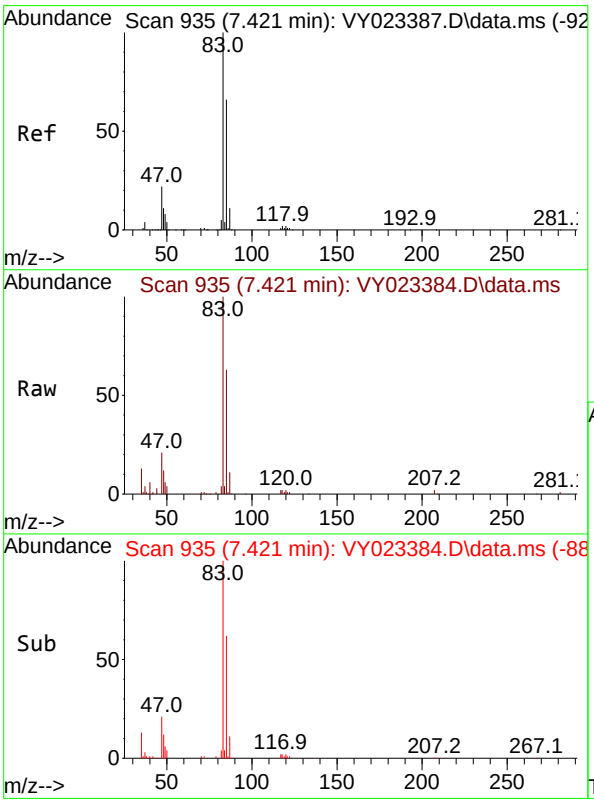
Ion	Ratio	Lower	Upper
42	100		
72	51.0	43.0	64.6
71	50.4	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

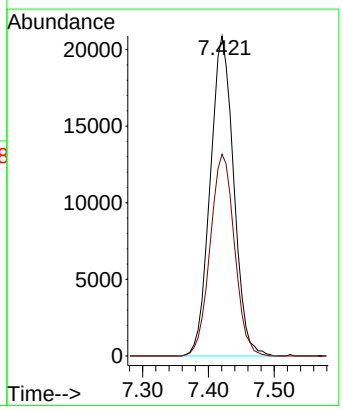
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

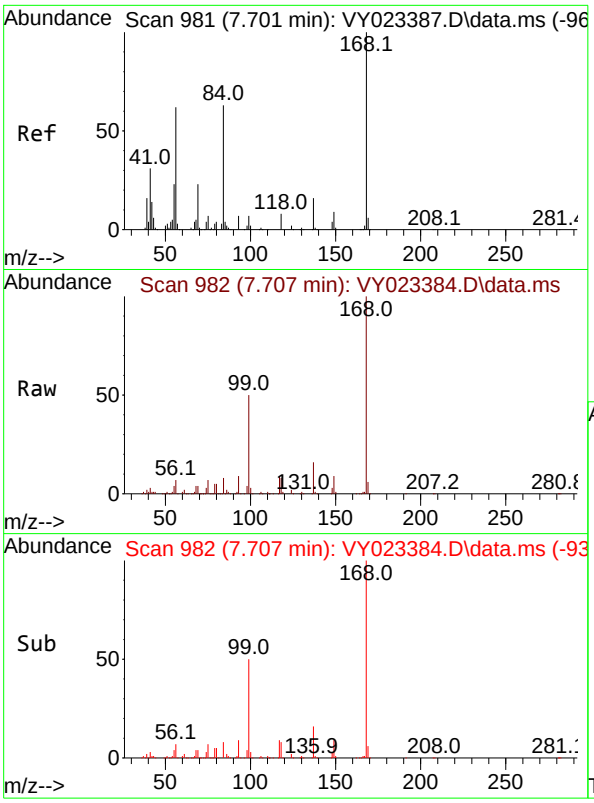


#30
Chloroform
Concen: 4.806 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

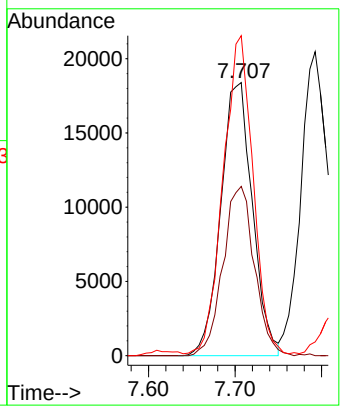
Tgt Ion: 56 Resp: 4667

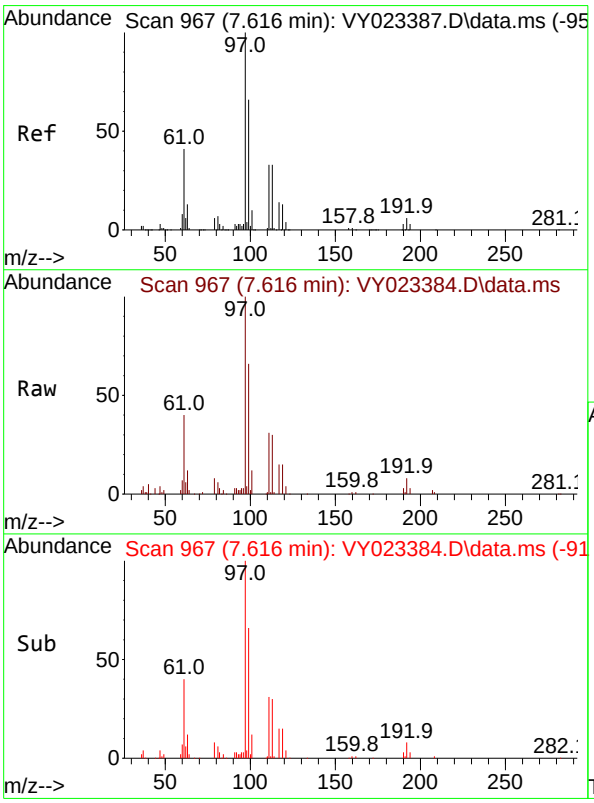
Ion	Ratio	Lower	Upper
56	100		
69	62.0	30.0	45.0
84	115.8	81.2	121.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

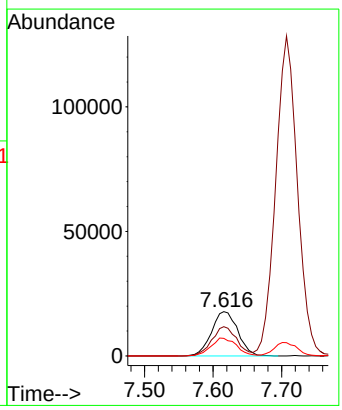


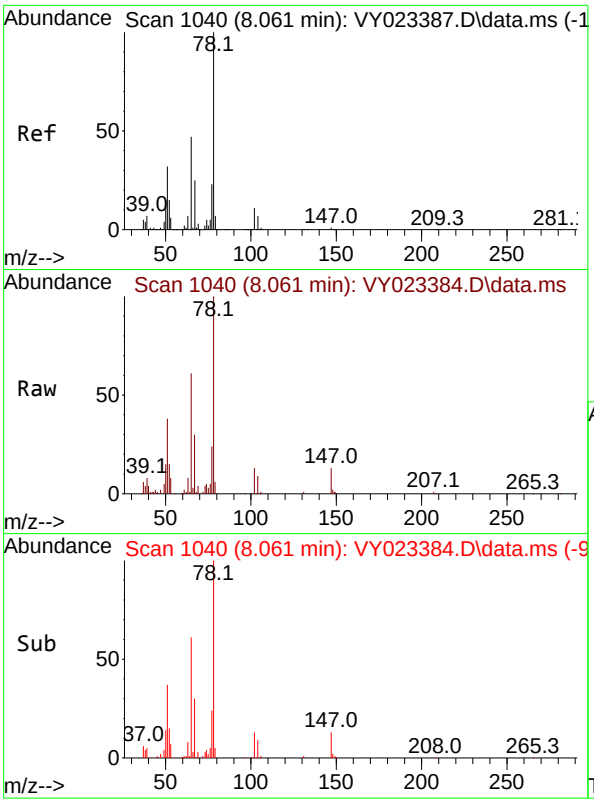


#32
1,1,1-Trichloroethane
Concen: 4.881 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

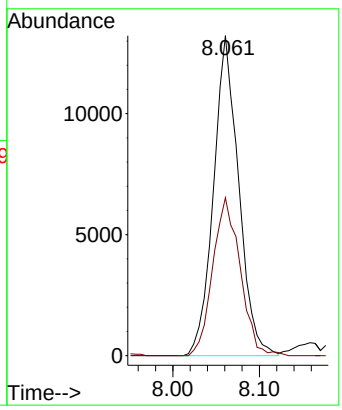




#33
1,2-Dichloroethane-d4
Concen: 5.258 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 65 Resp: 2667

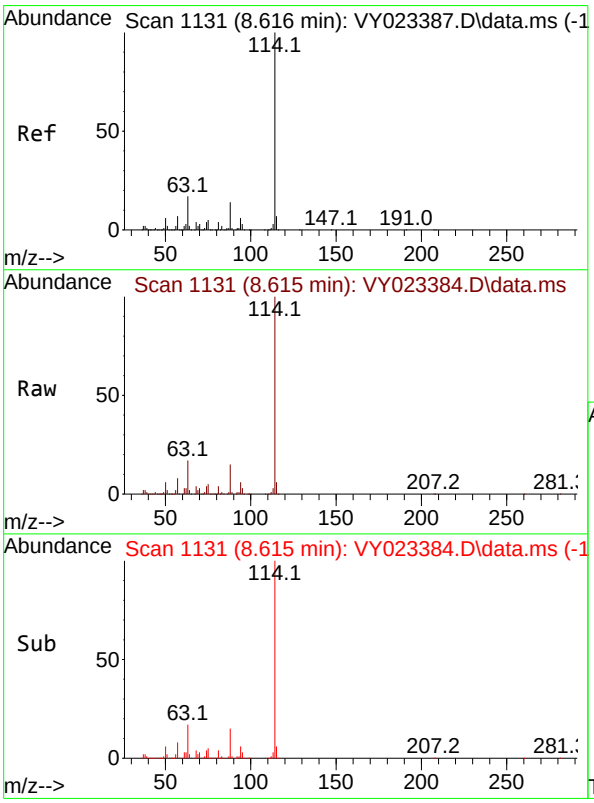
Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

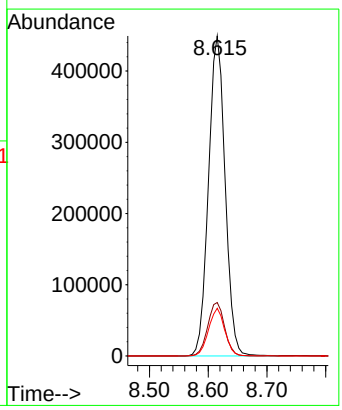
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

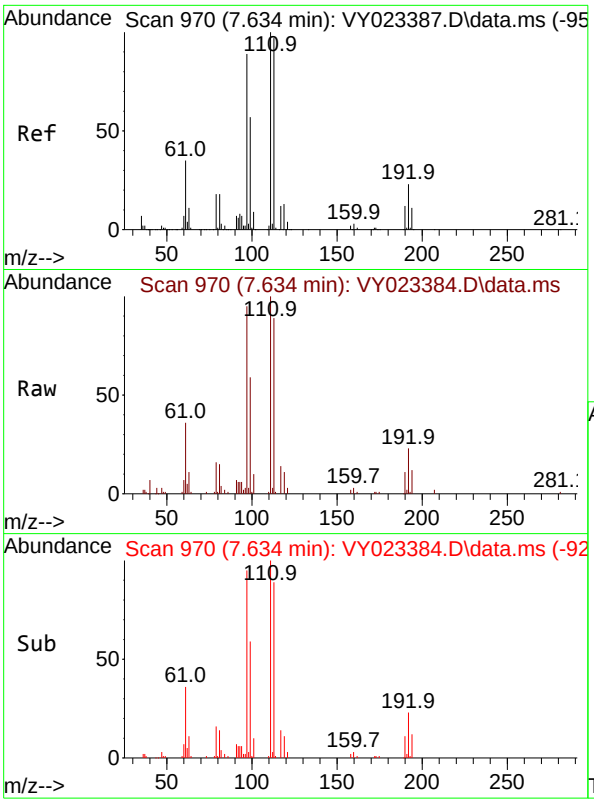


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

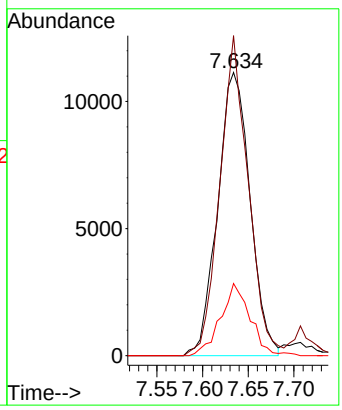




#35
Dibromofluoromethane
Concen: 5.126 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:113 Resp: 2745

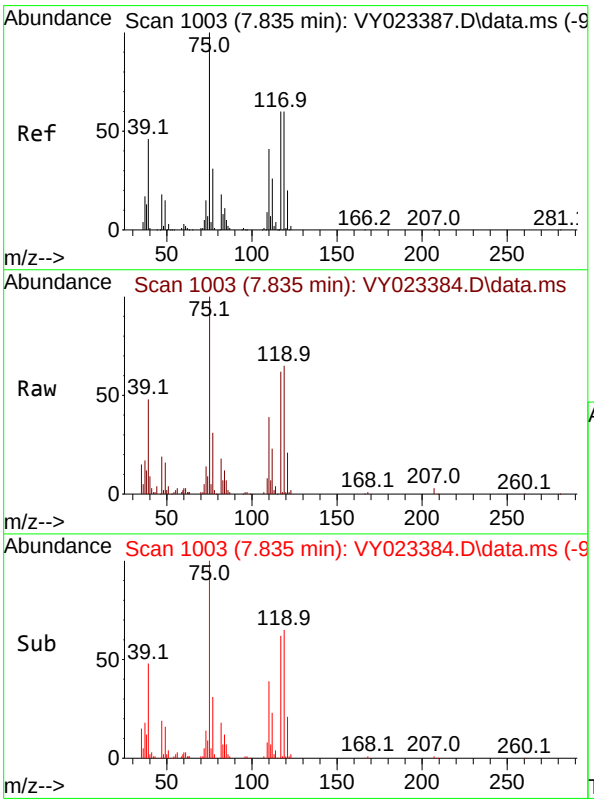
Ion	Ratio	Lower	Upper
113	100		
111	99.0	81.8	122.6
192	23.4	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

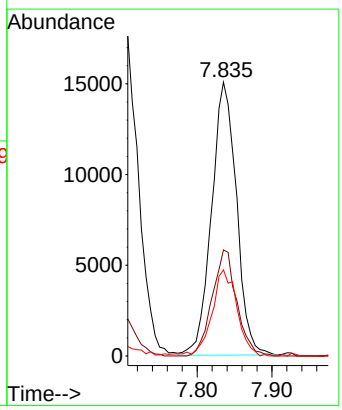
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

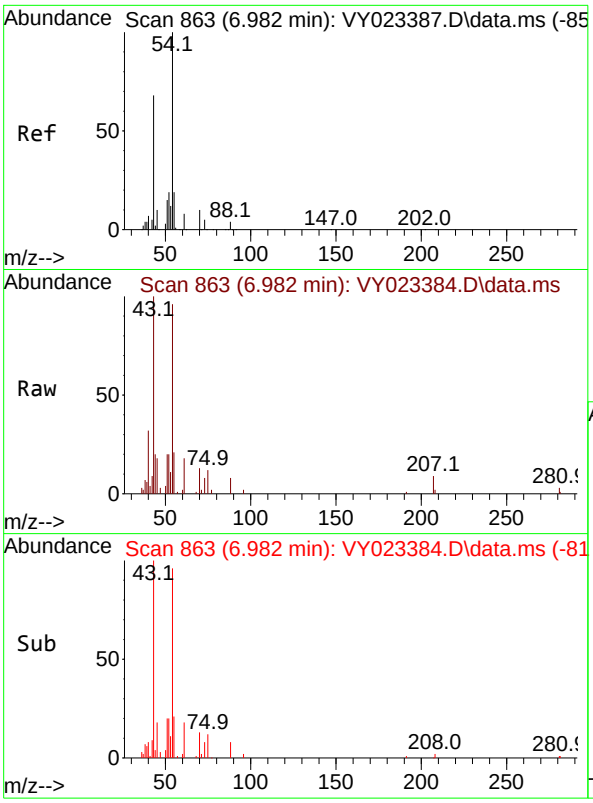


#36
1,1-Dichloropropene
Concen: 4.617 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

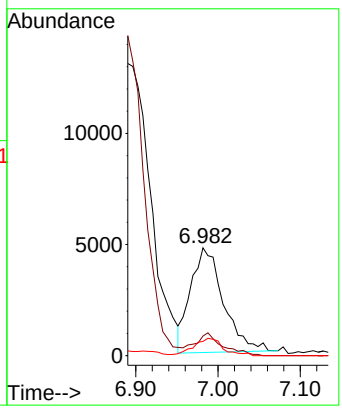




#37
Ethyl Acetate
Concen: 4.379 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 1308

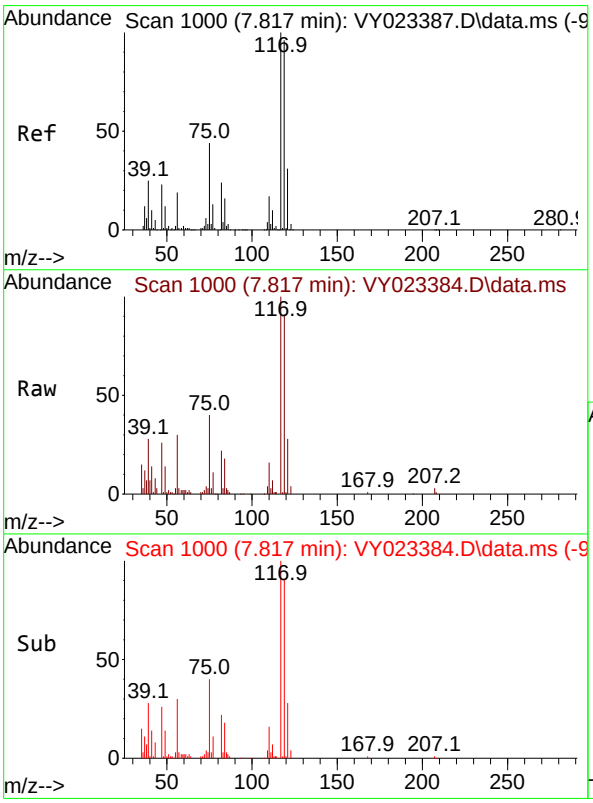
Ion	Ratio	Lower	Upper
43	100		
61	18.2	11.8	17.8
70	15.0	10.5	15.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

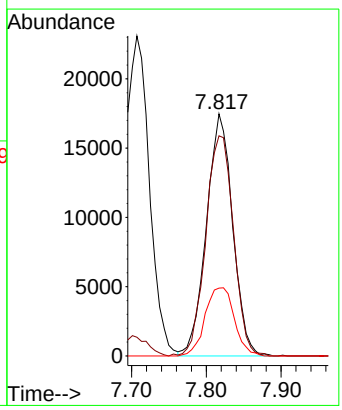
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

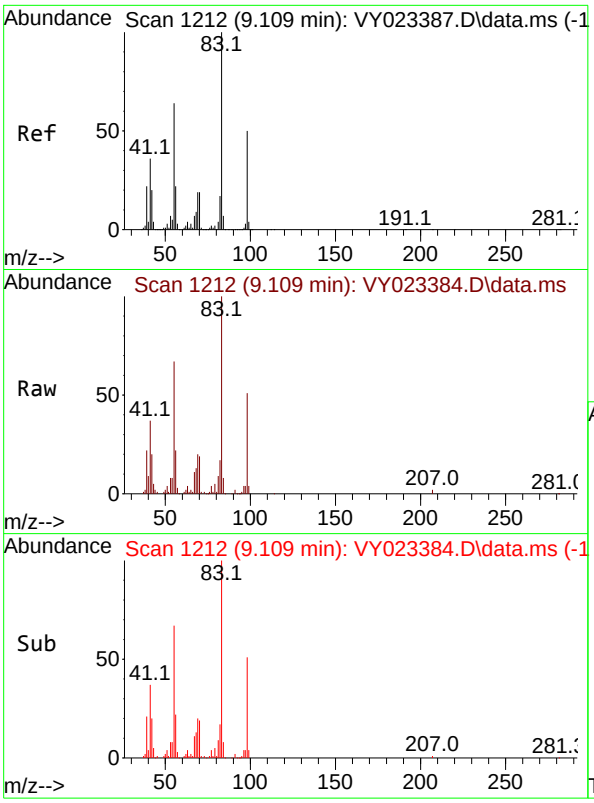


#38
Carbon Tetrachloride
Concen: 4.859 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

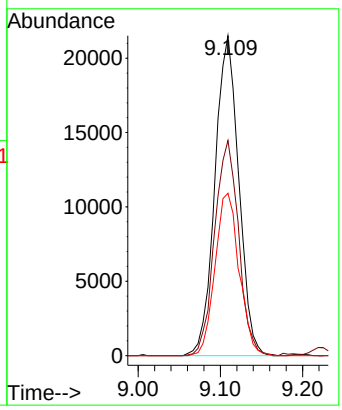




#39
Methylcyclohexane
Concen: 4.479 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 83 Resp: 4332

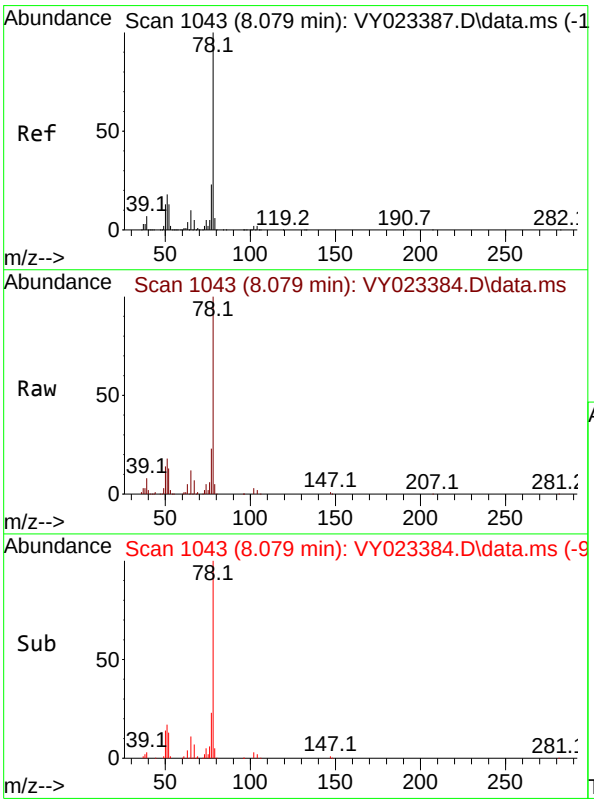
Ion	Ratio	Lower	Upper
83	100		
55	67.2	51.4	77.2
98	50.8	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

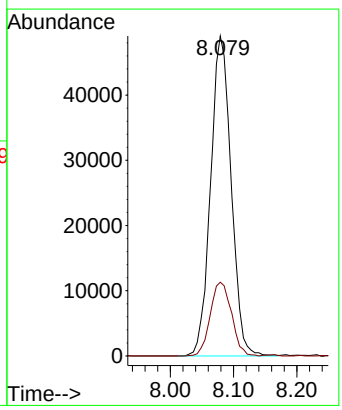
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

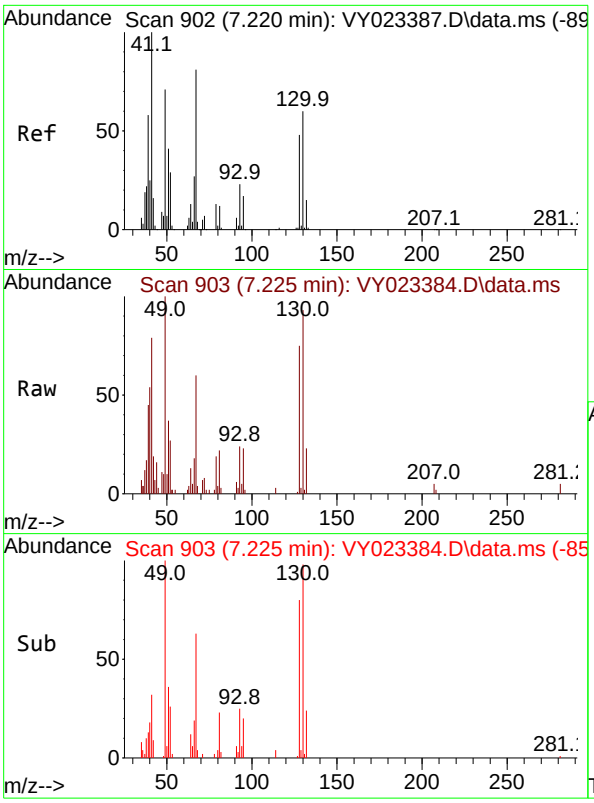


#40
Benzene
Concen: 4.693 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 78 Resp: 110551

Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.3	27.5

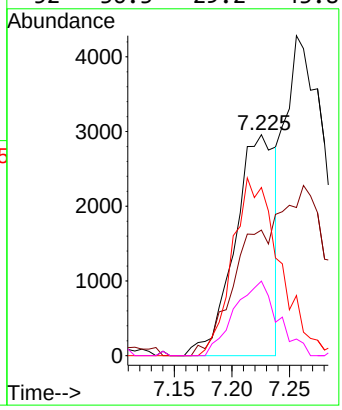




#41
Methacrylonitrile
Concen: 4.658 ug/l m
RT: 7.225 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 41 Resp: 722

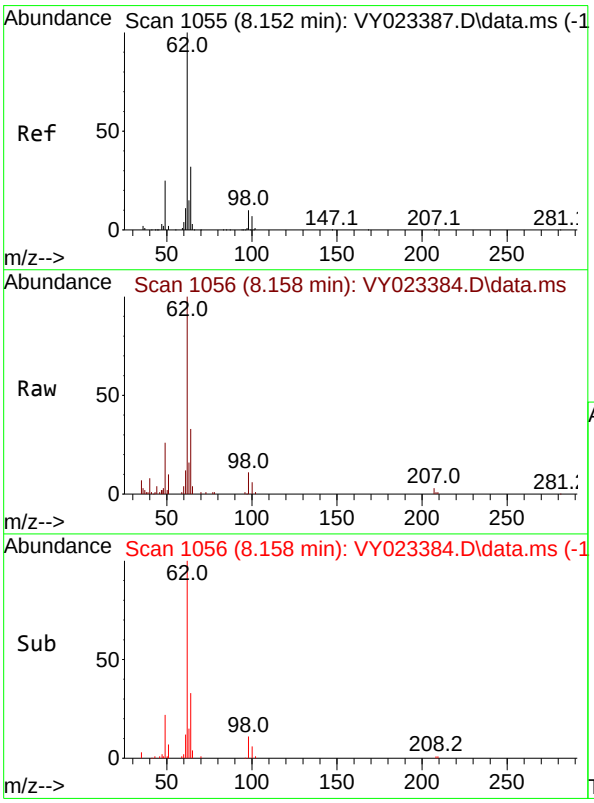
Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.2	78.4
67	95.1	74.9	112.3
52	36.3	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

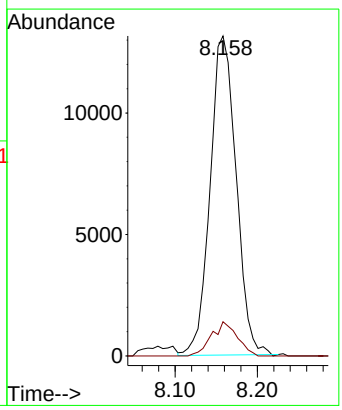
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

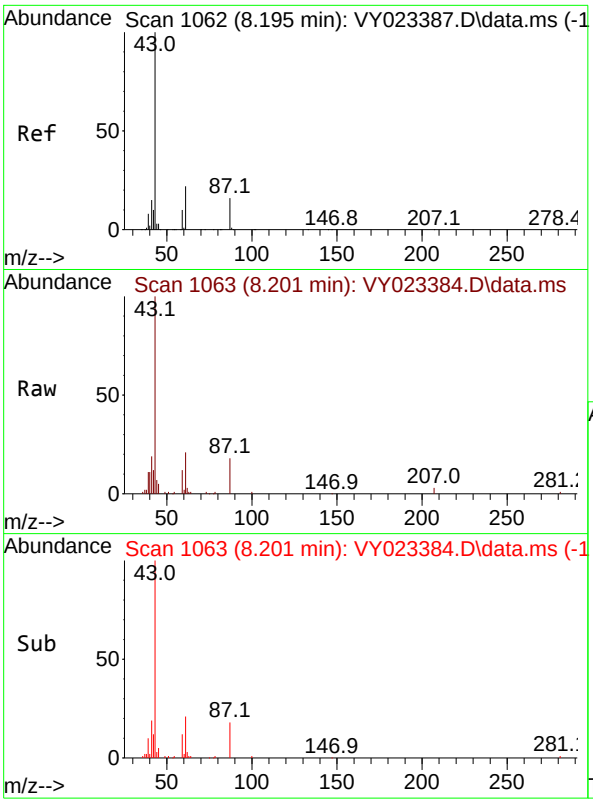


#42
1,2-Dichloroethane
Concen: 4.828 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

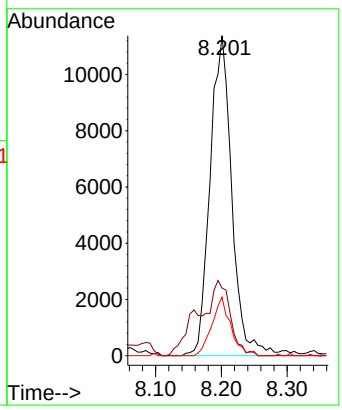
Tgt Ion: 43 Resp: 2616

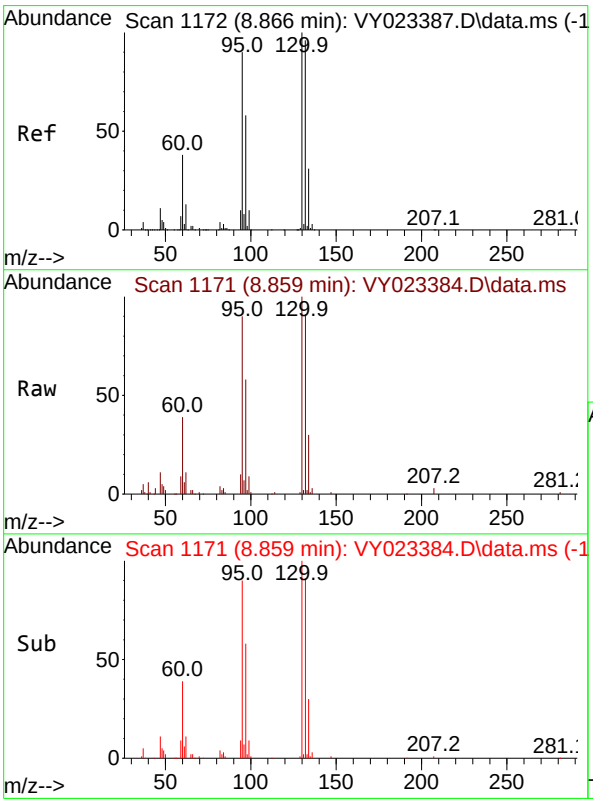
Ion	Ratio	Lower	Upper
43	100		
61	22.6	18.1	27.1
87	15.9	13.5	20.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

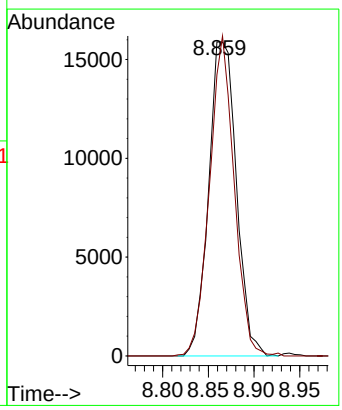


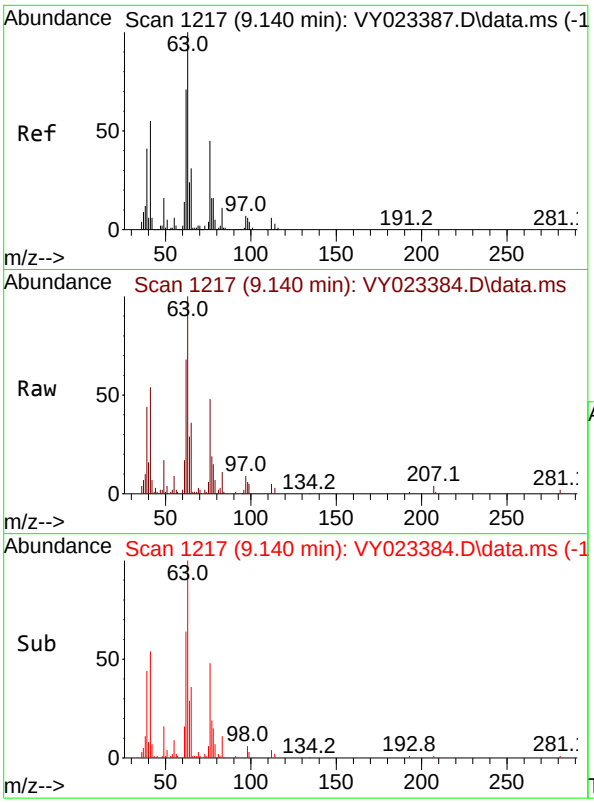


#44
Trichloroethene
Concen: 5.077 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:130 Resp: 33564

Ion	Ratio	Lower	Upper
130	100		
95	89.2	0.0	180.6

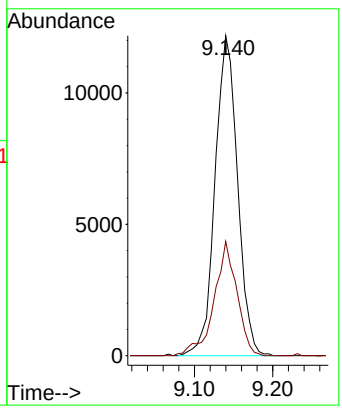




#45
1,2-Dichloropropane
Concen: 4.595 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 63 Resp: 2435

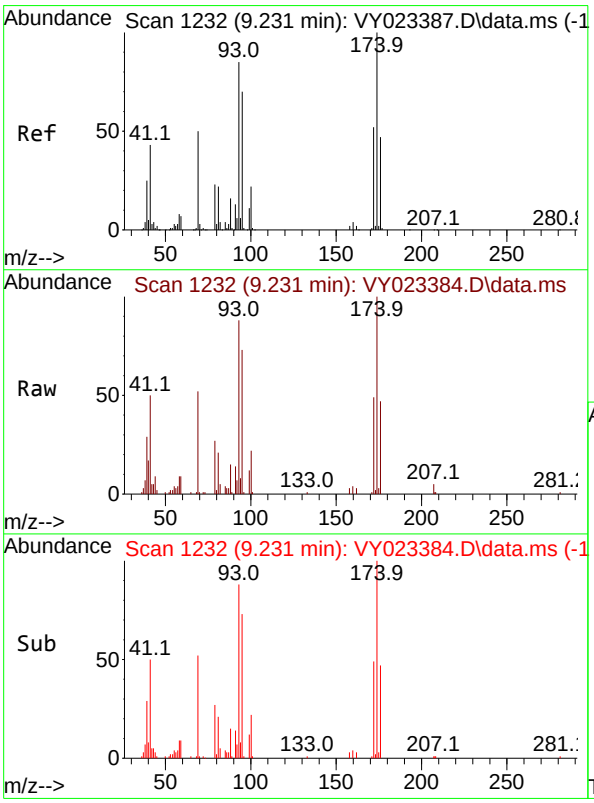
Ion	Ratio	Lower	Upper
63	100		
65	35.7	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

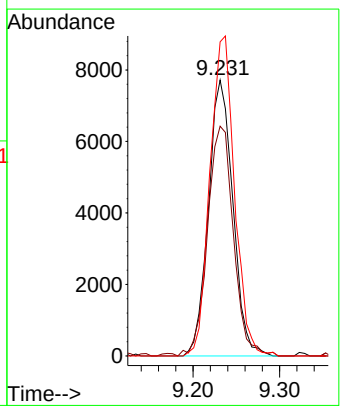
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

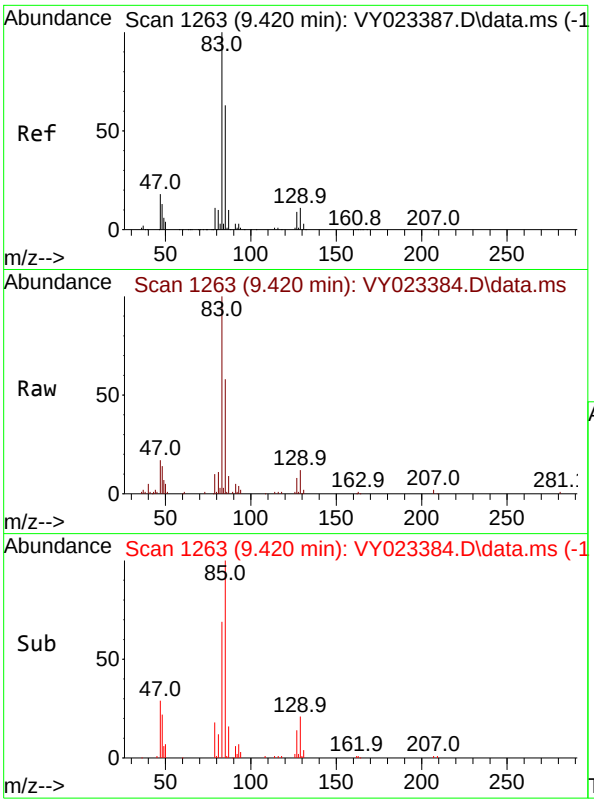


#46
Dibromomethane
Concen: 4.682 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

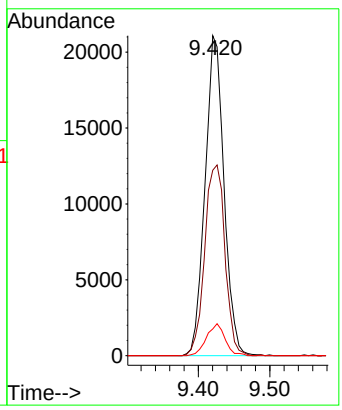




#47
Bromodichloromethane
Concen: 4.756 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 83 Resp: 3881

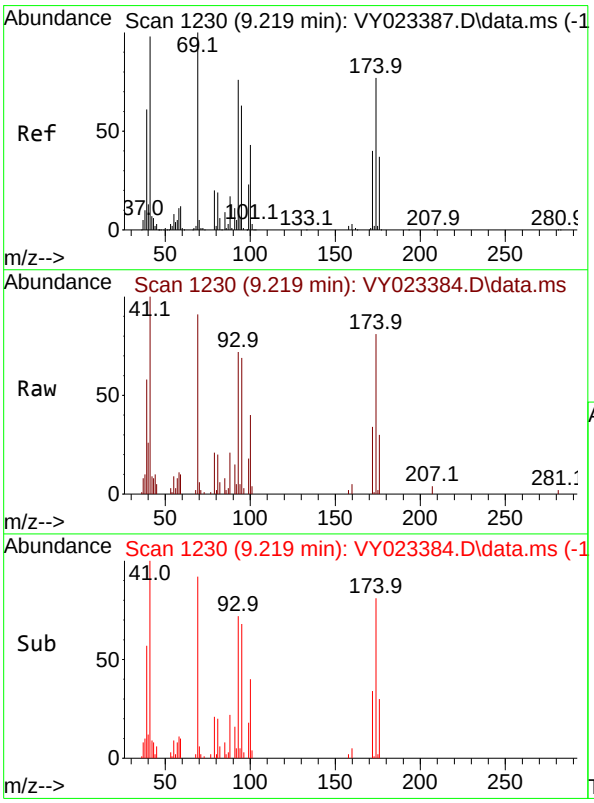
Ion	Ratio	Lower	Upper
83	100		
85	57.9	50.8	76.2
127	8.4	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

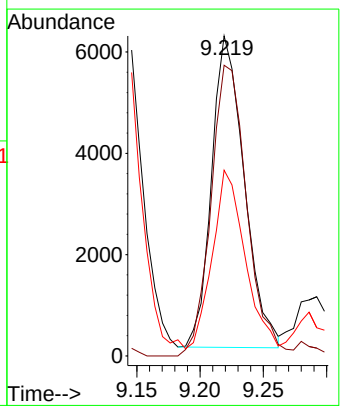
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

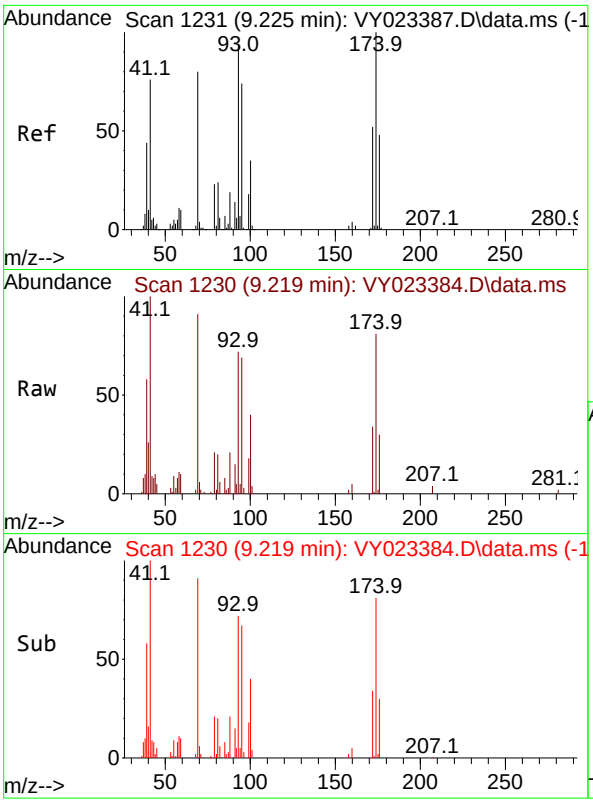


#48
Methyl methacrylate
Concen: 4.071 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

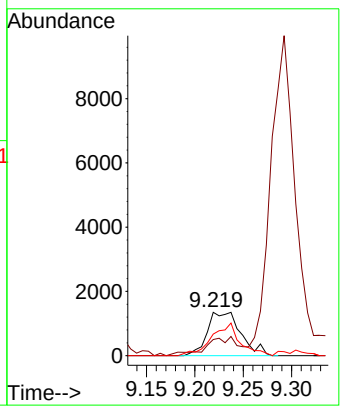




#49
1,4-Dioxane
Concen: 96.953 ug/l
RT: 9.219 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 88 Resp: 325

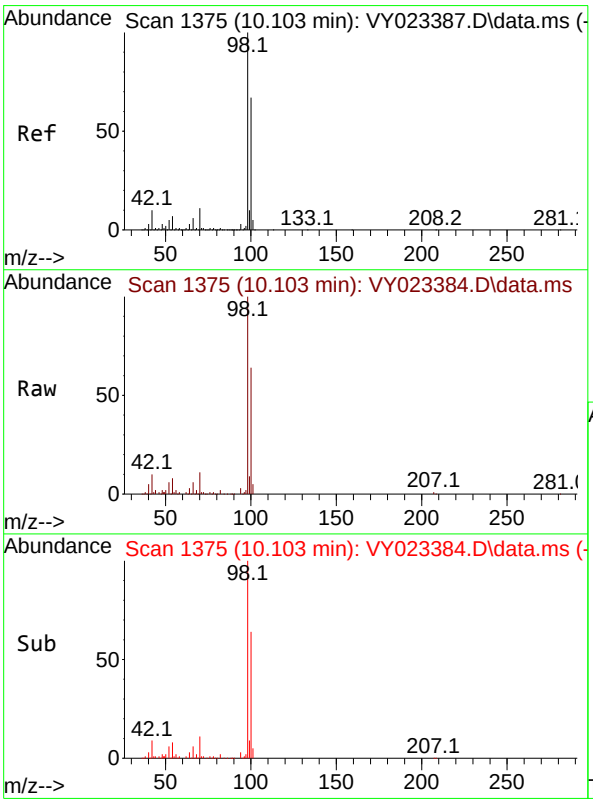
Ion	Ratio	Lower	Upper
88	100		
43	43.1	21.8	32.8
58	63.4	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

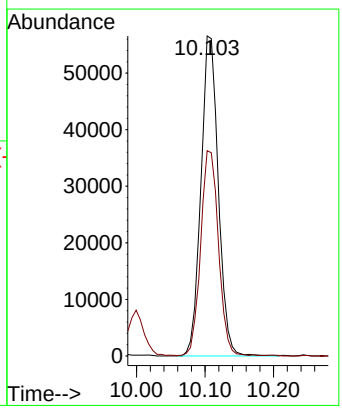
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

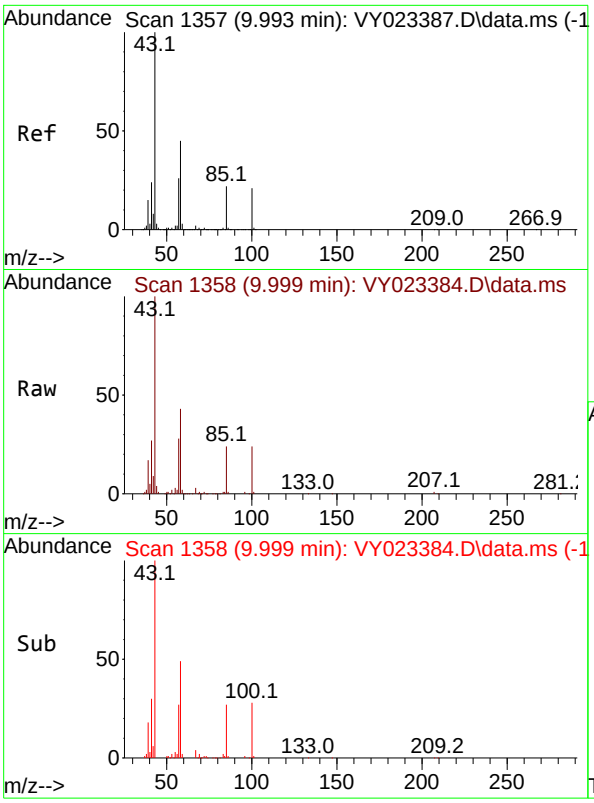


#50
Toluene-d8
Concen: 4.946 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 98 Resp: 99905

Ion	Ratio	Lower	Upper
98	100		
100	65.3	53.0	79.4

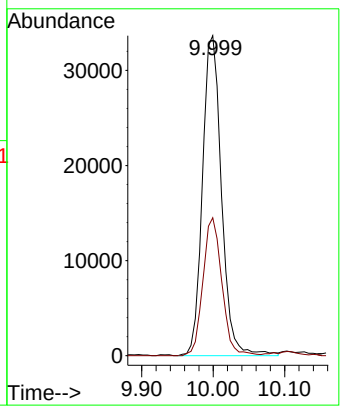




#51
4-Methyl-2-Pentanone
Concen: 20.925 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 43 Resp: 6227

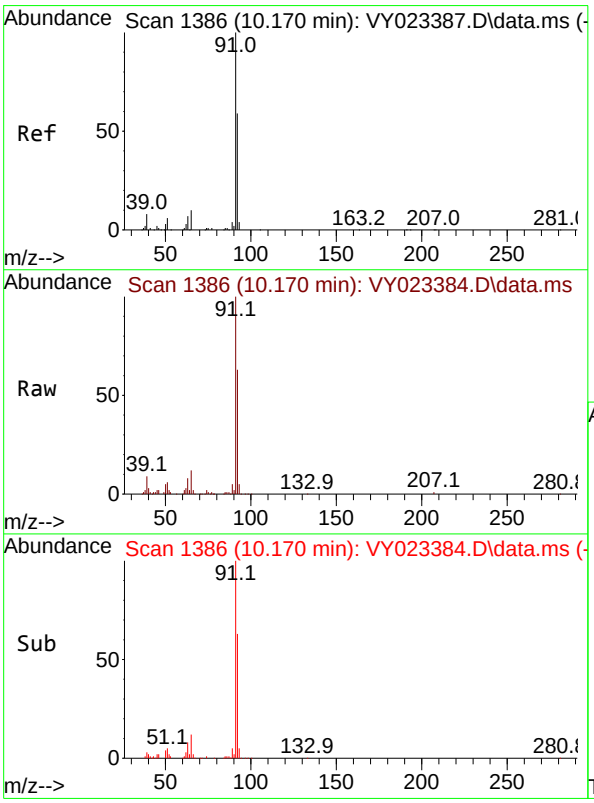
Ion	Ratio	Lower	Upper
43	100		
58	42.7	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

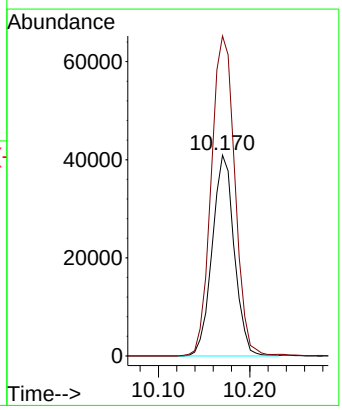
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

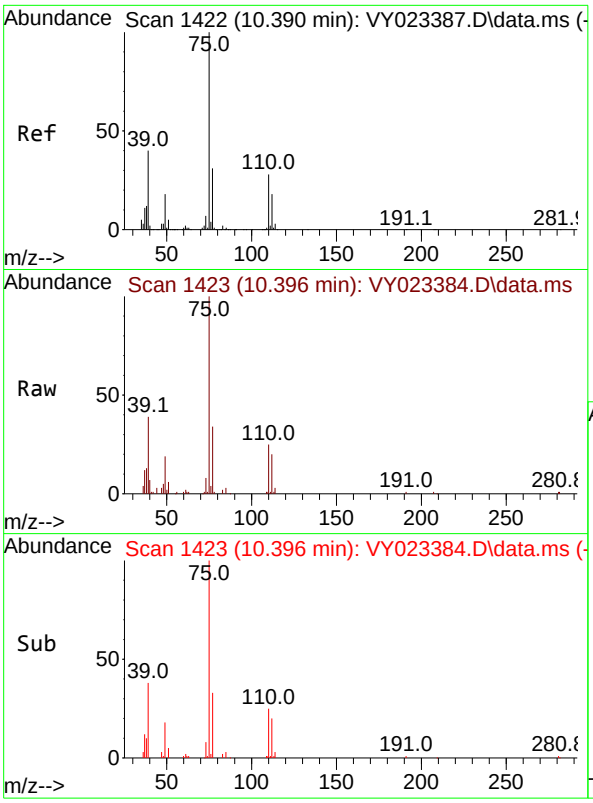


#52
Toluene
Concen: 4.585 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 92 Resp: 68550

Ion	Ratio	Lower	Upper
92	100		
91	171.2	136.4	204.6

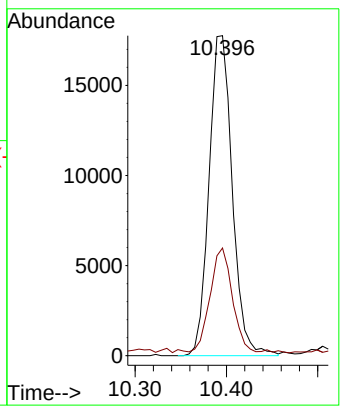




#53
t-1,3-Dichloropropene
Concen: 4.491 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 3147

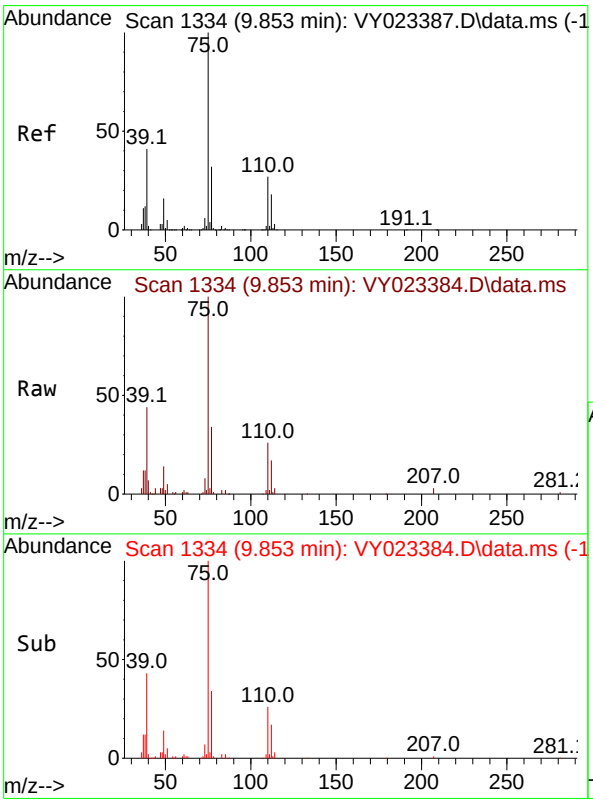
Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

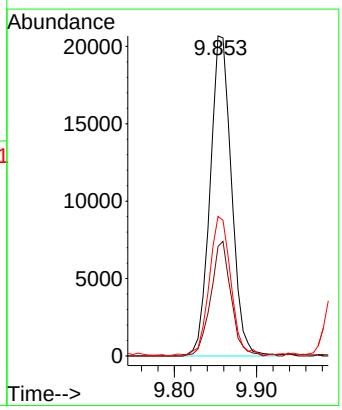
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

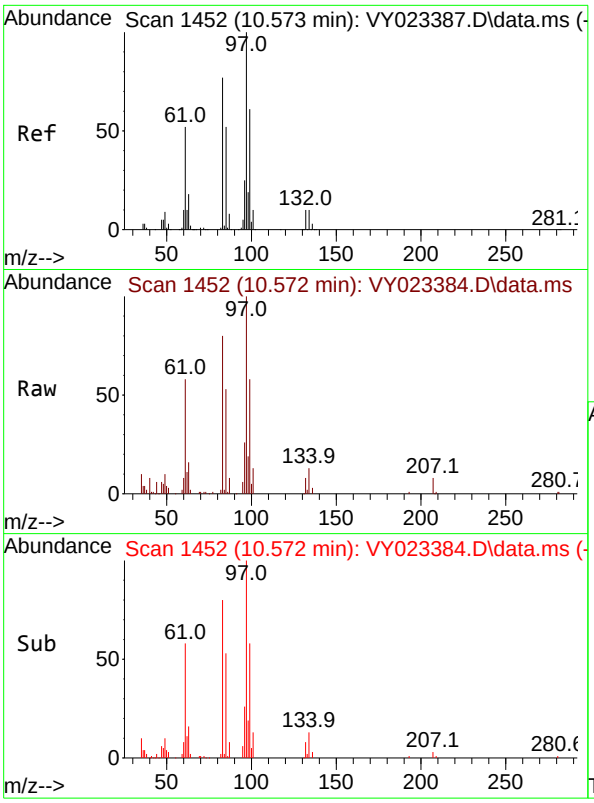


#54
cis-1,3-Dichloropropene
Concen: 4.463 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

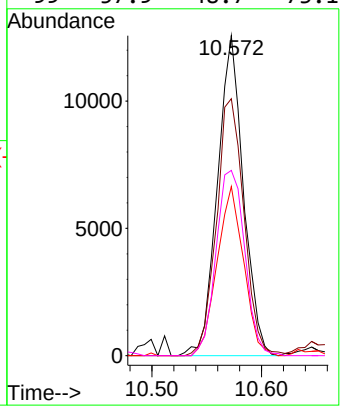




#55
1,1,2-Trichloroethane
Concen: 4.786 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 97 Resp: 2064

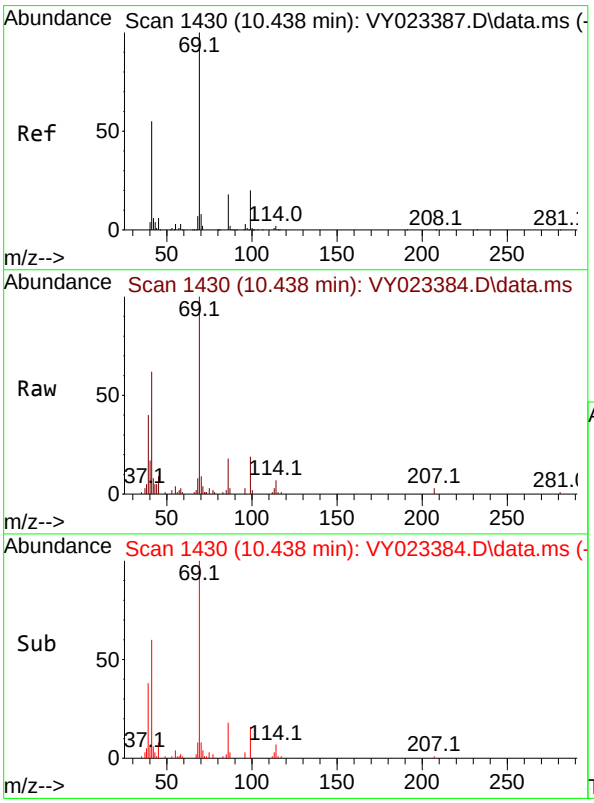
Ion	Ratio	Lower	Upper
97	100		
83	80.3	61.8	92.6
85	52.8	41.3	61.9
99	57.9	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

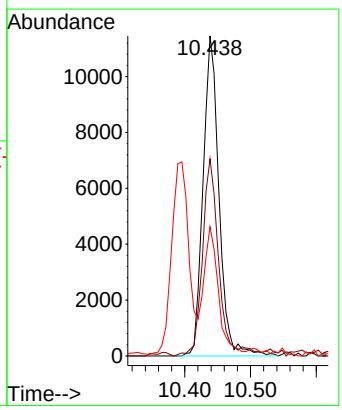
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

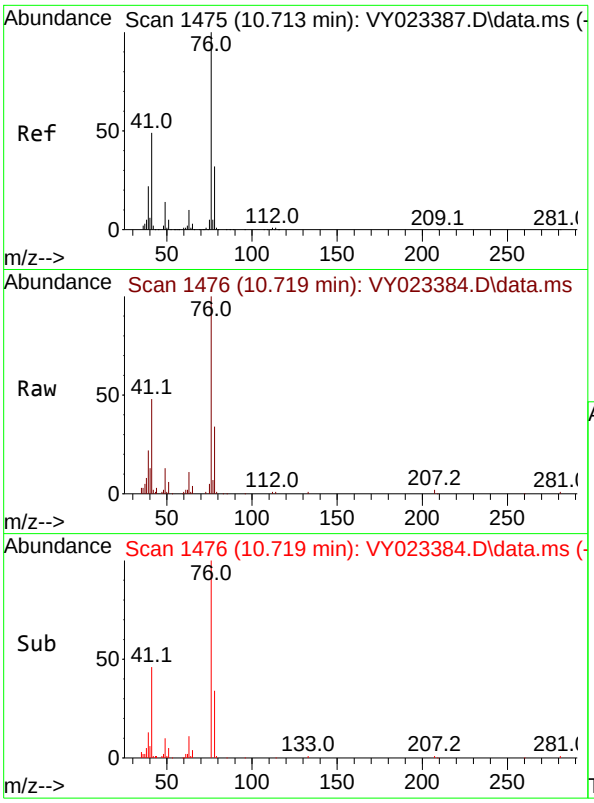


#56
Ethyl methacrylate
Concen: 3.891 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

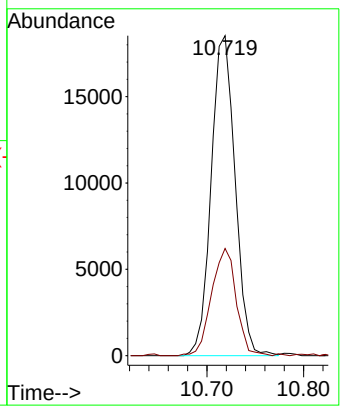




#57
1,3-Dichloropropane
Concen: 4.560 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 76 Resp: 3183

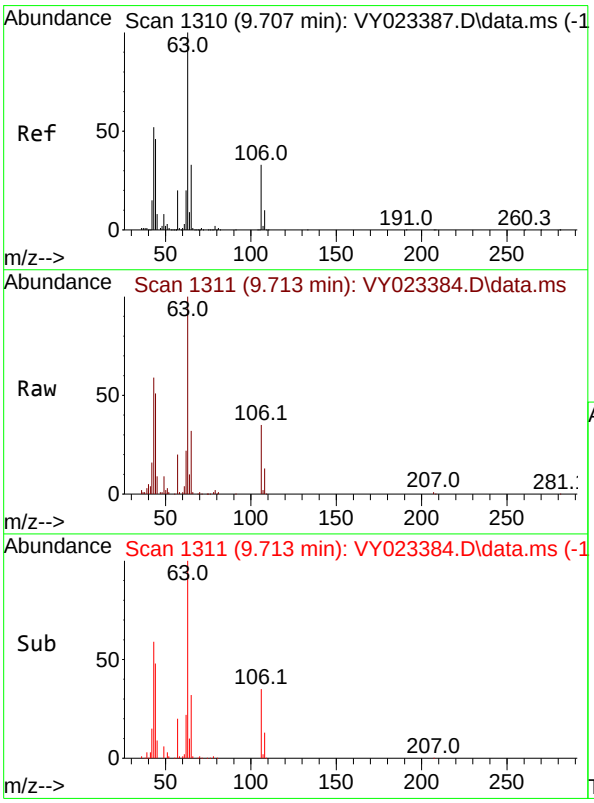
Ion	Ratio	Lower	Upper
76	100		
78	34.4	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

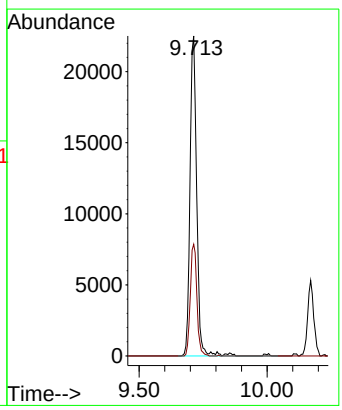
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

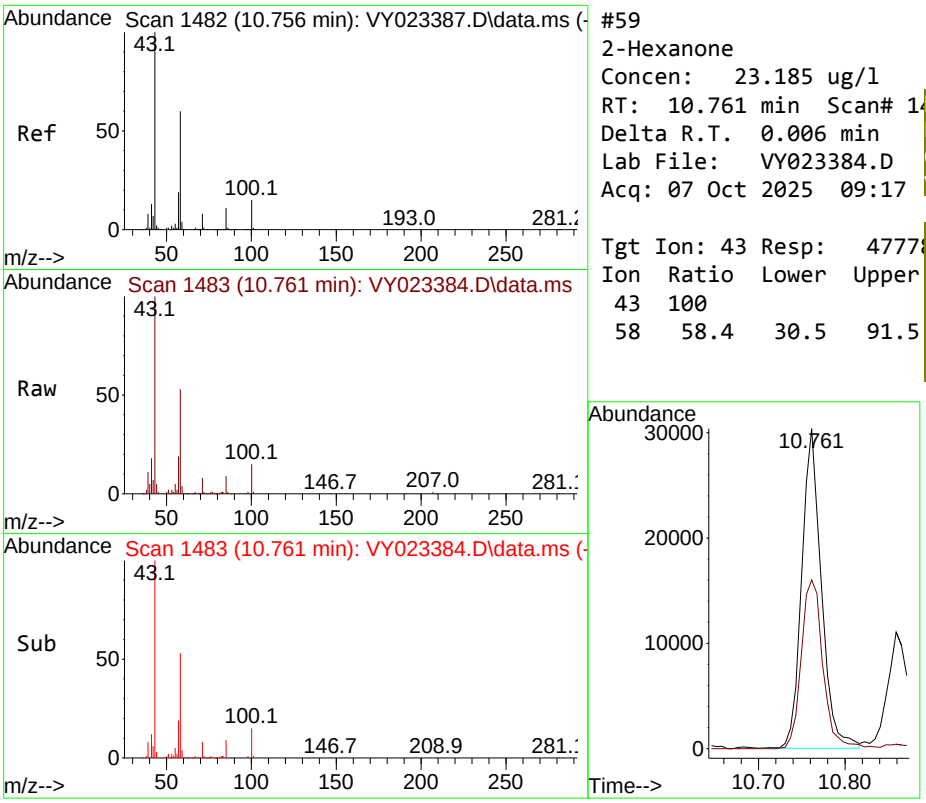


#58
2-Chloroethyl Vinyl ether
Concen: 18.894 ug/l m
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

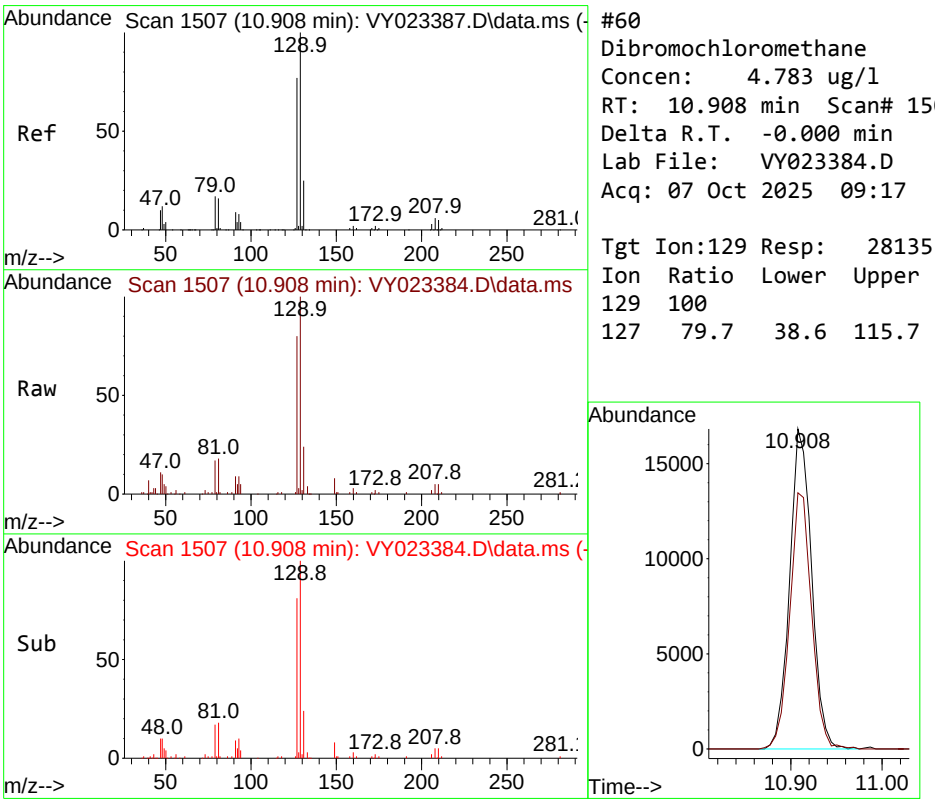
Tgt Ion: 43 Resp: 4777

Ion	Ratio	Lower	Upper
43	100		
58	58.4	30.5	91.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

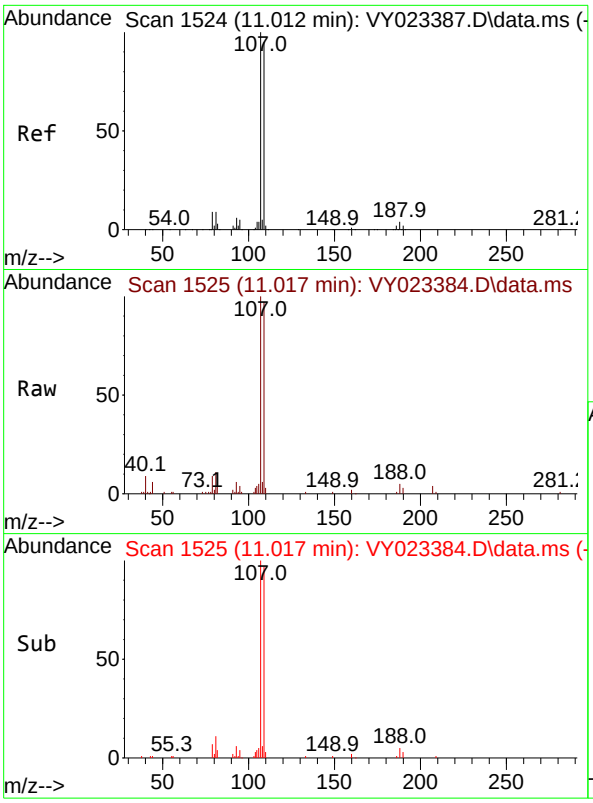
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

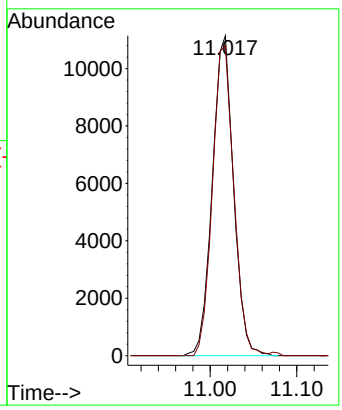
Ion	Ratio	Lower	Upper
129	100		
127	79.7	38.6	115.7



#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

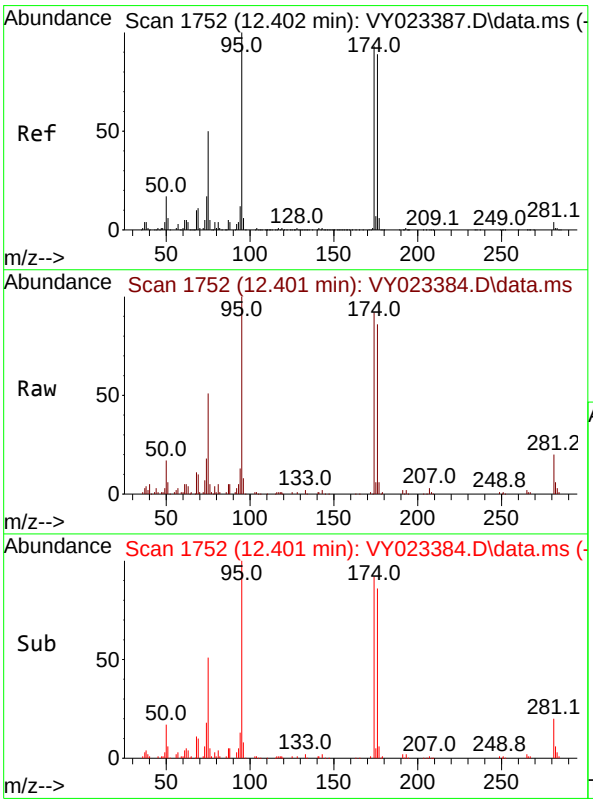
Ion	Ratio	Lower	Upper
107	100		
109	97.6	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

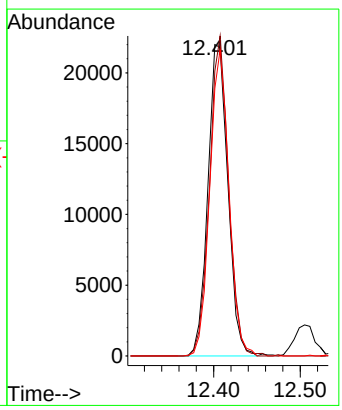
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

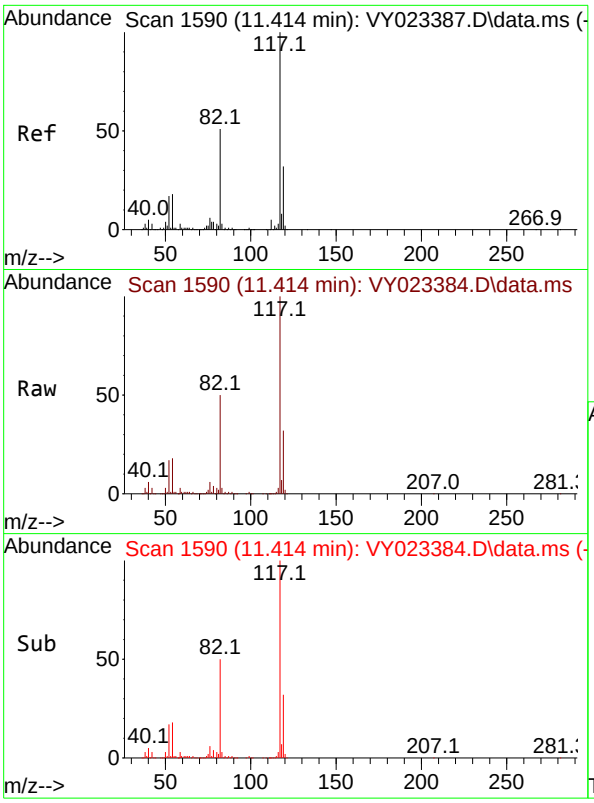


#62
4-Bromofluorobenzene
Concen: 5.548 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

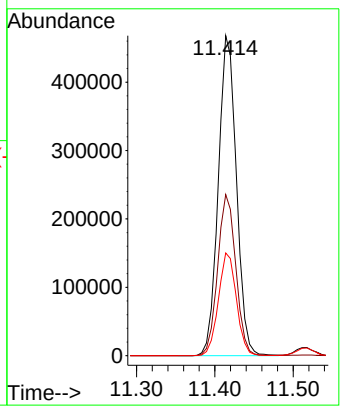




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:117 Resp: 75339

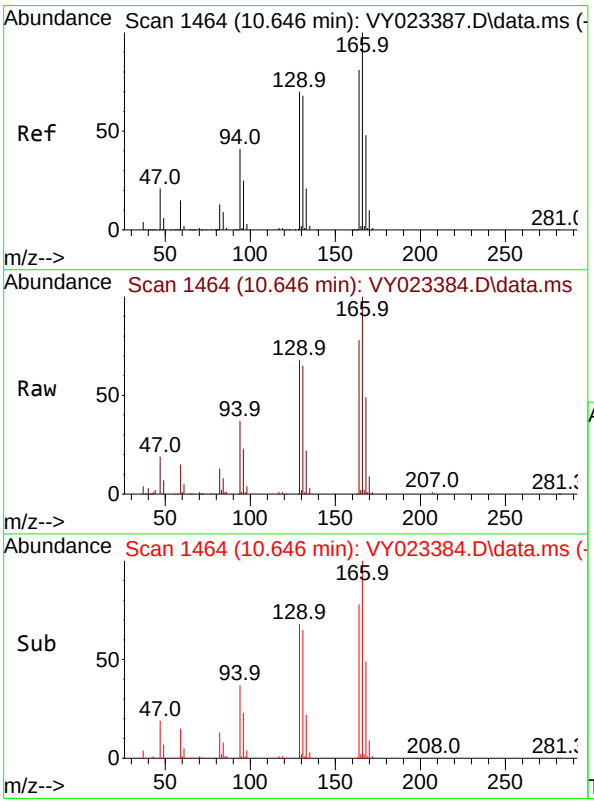
Ion	Ratio	Lower	Upper
117	100		
82	50.3	41.0	61.4
119	32.1	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

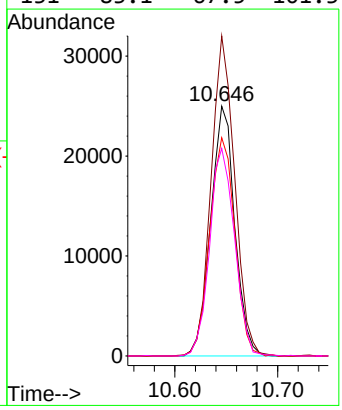
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

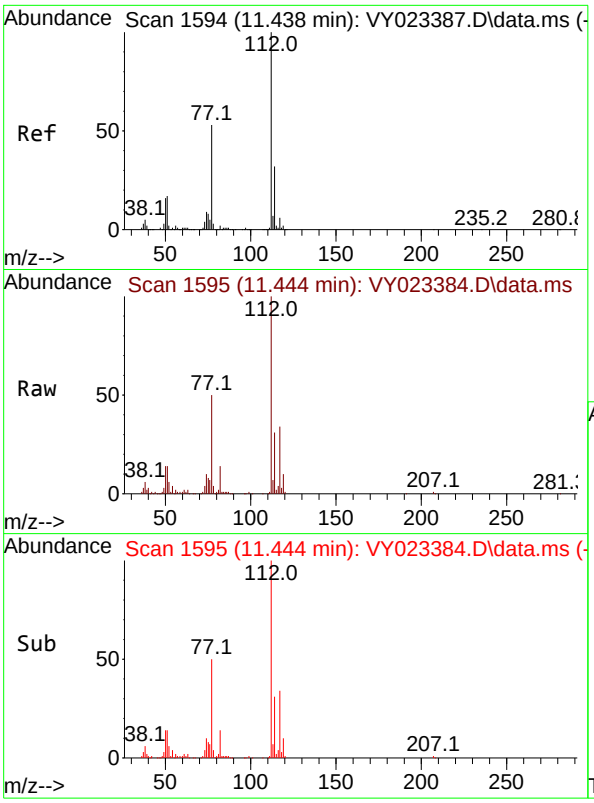


#64
Tetrachloroethene
Concen: 5.383 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

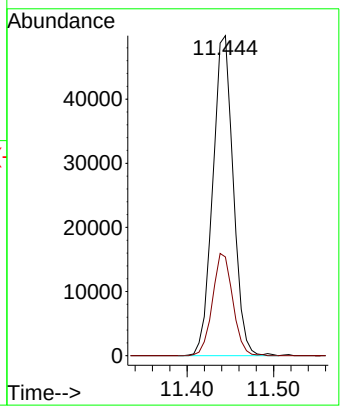




#65
Chlorobenzene
Concen: 4.997 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:112 Resp: 8180

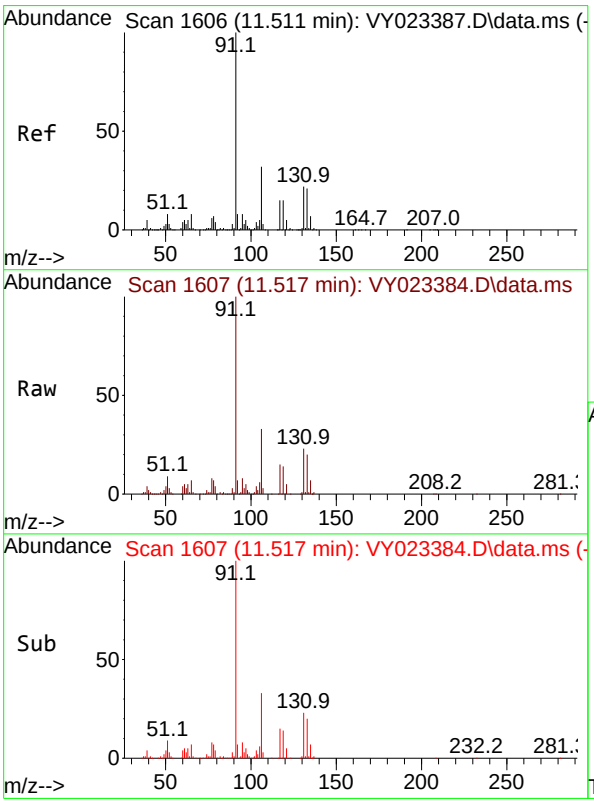
Ion	Ratio	Lower	Upper
112	100		
114	30.8	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

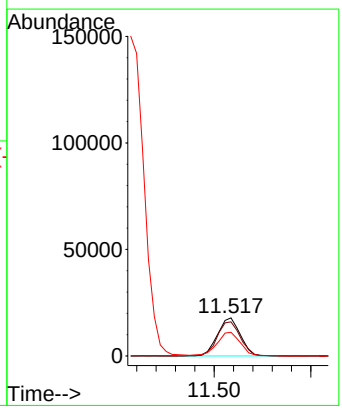
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

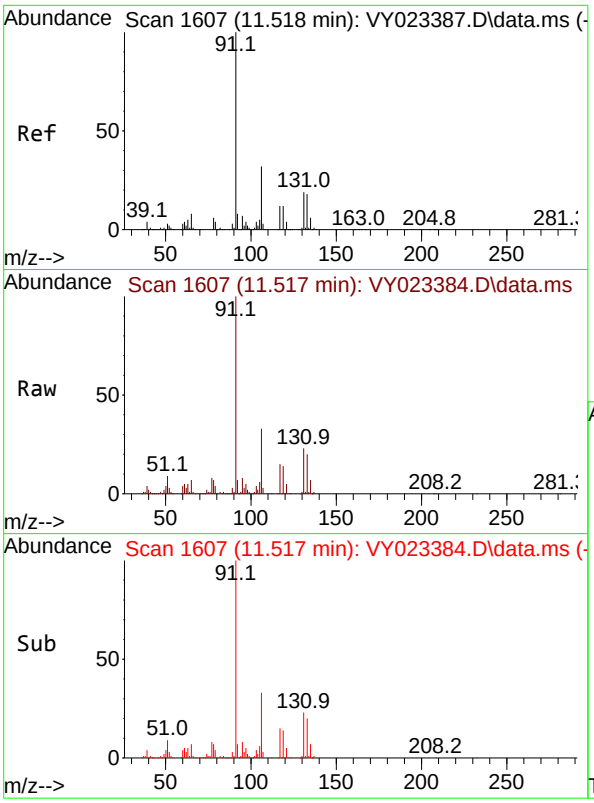


#66
1,1,1,2-Tetrachloroethane
Concen: 5.075 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

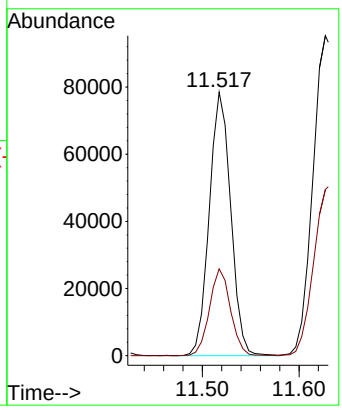




#67
Ethyl Benzene
Concen: 4.529 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 12100

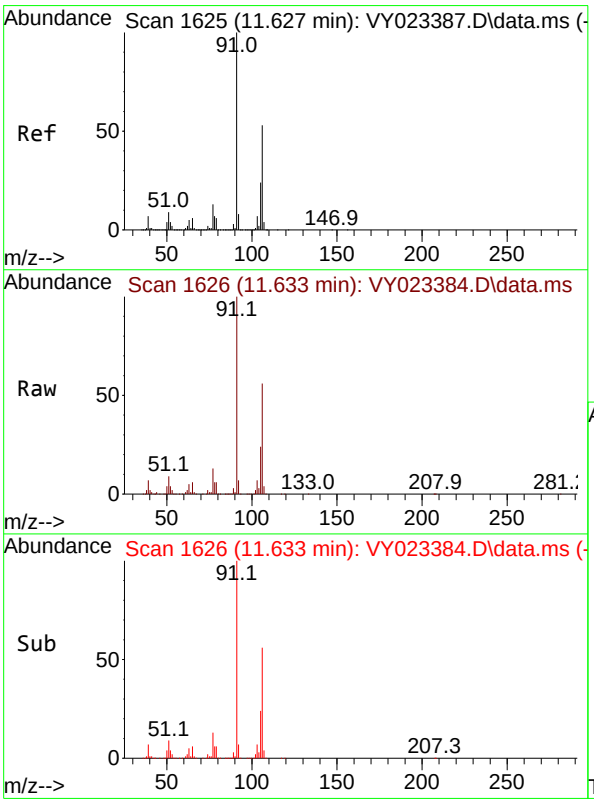
Ion	Ratio	Lower	Upper
91	100		
106	33.0	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

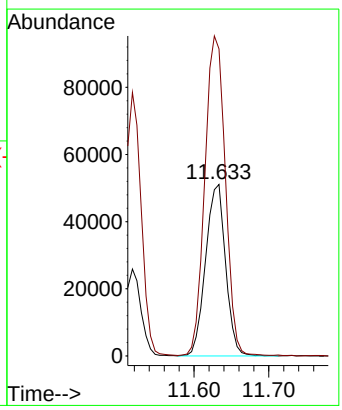
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

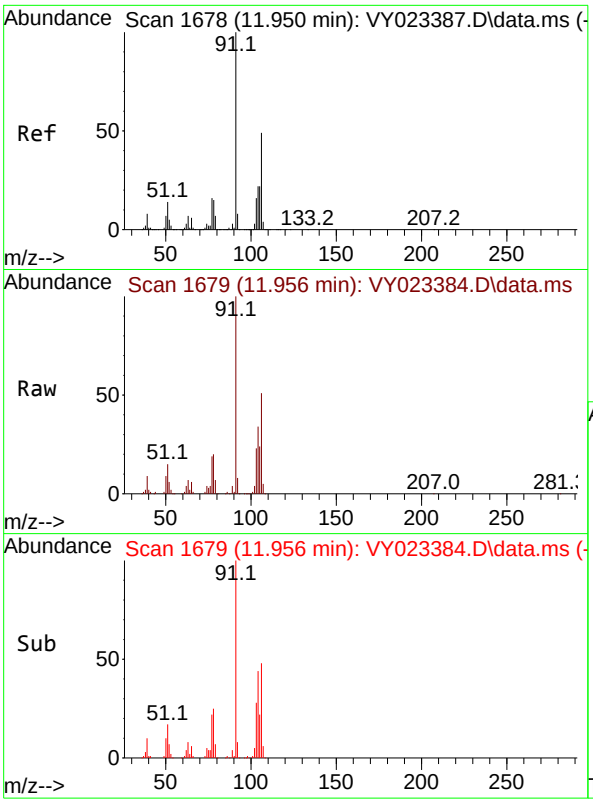


#68
m/p-Xylenes
Concen: 8.887 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

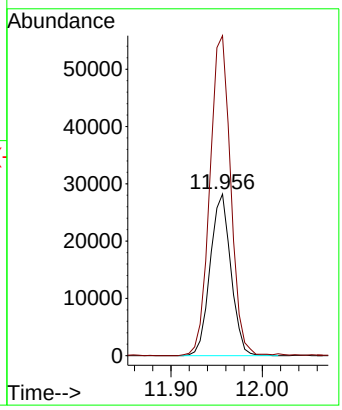
Tgt Ion:106 Resp: 4428

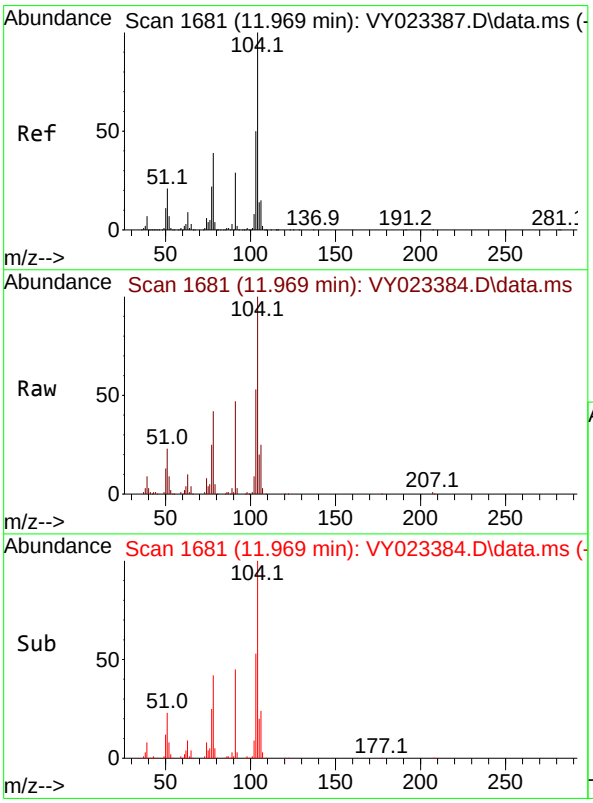
Ion	Ratio	Lower	Upper
106	100		
91	199.7	101.4	304.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

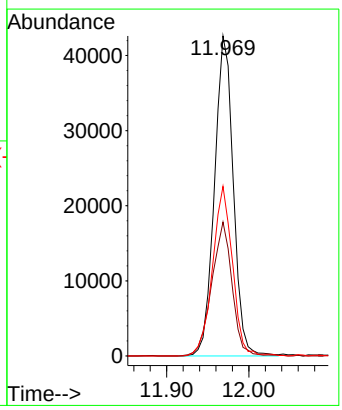


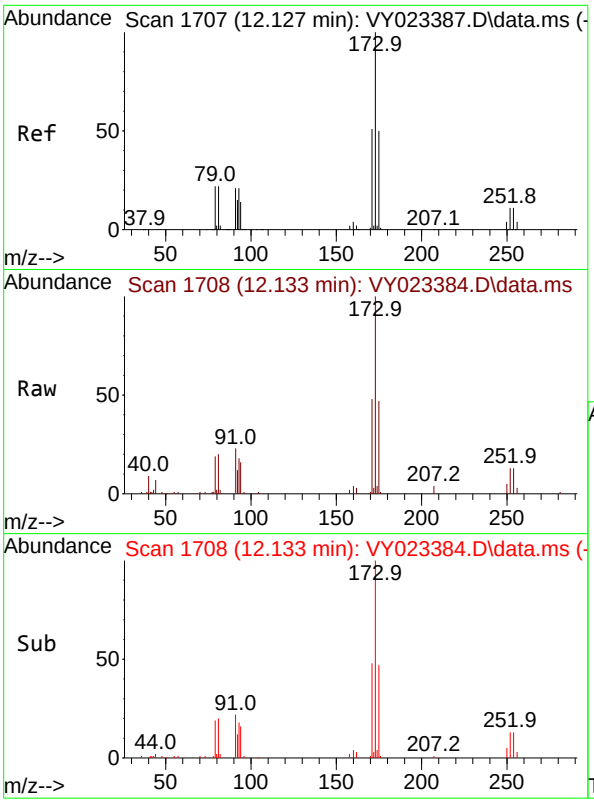


#70
Styrene
Concen: 4.152 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

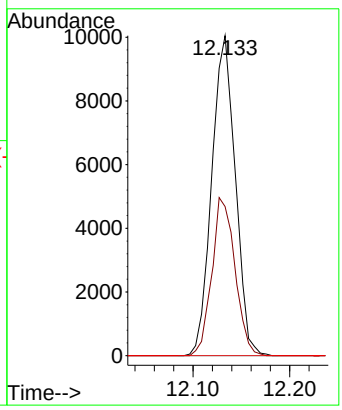




#71
Bromoform
Concen: 4.929 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:173 Resp: 1698

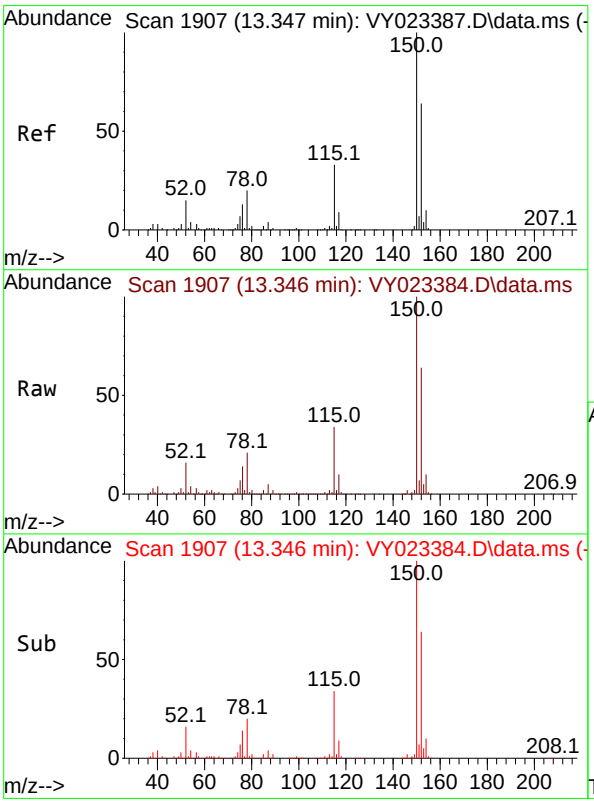
Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.8	74.3
254	0.0	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

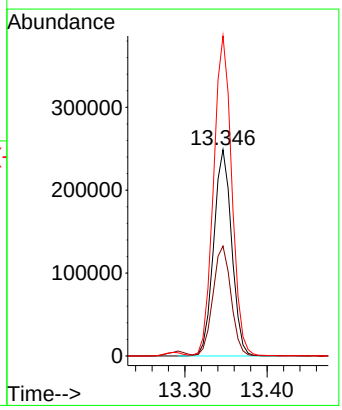
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

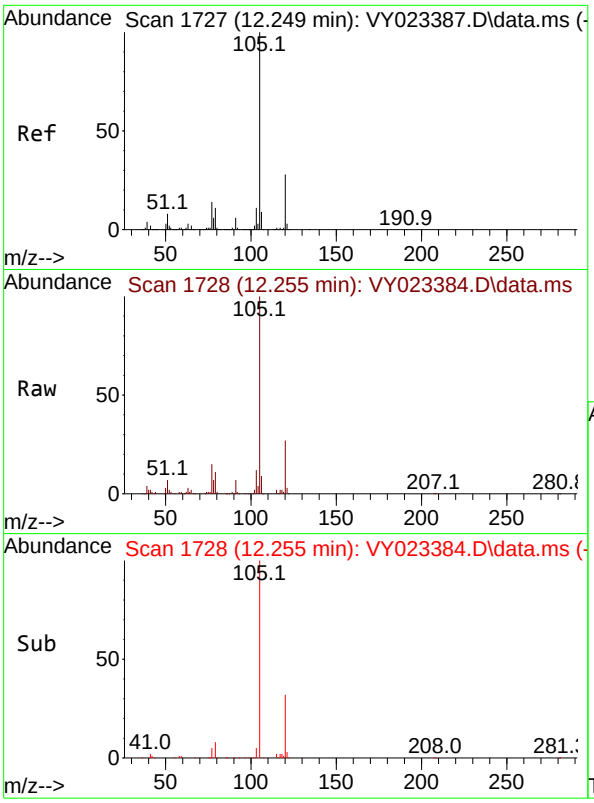


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

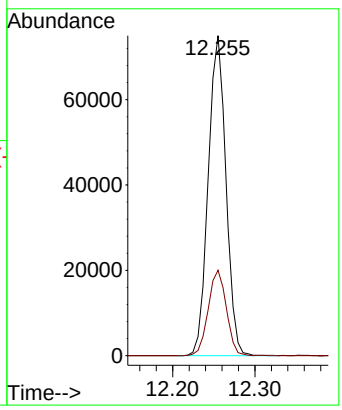




#73
Isopropylbenzene
Concen: 4.455 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:105 Resp: 11219

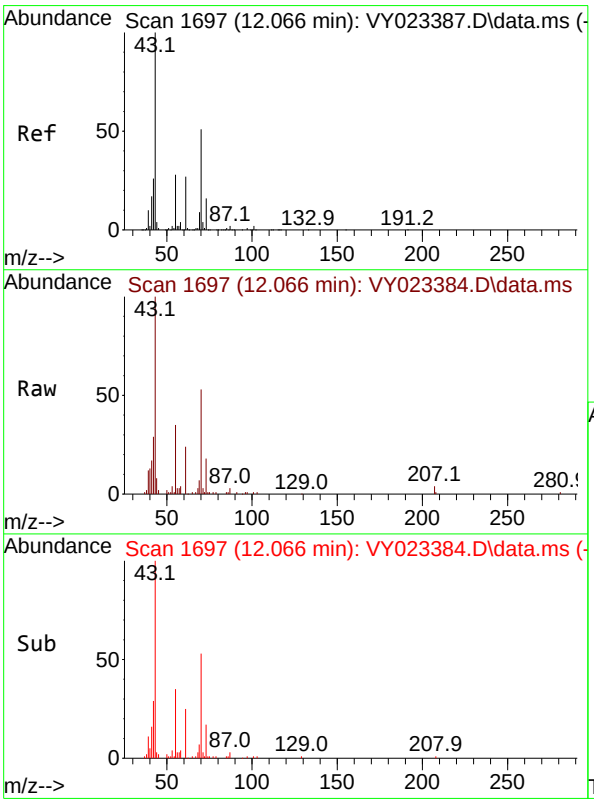
Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

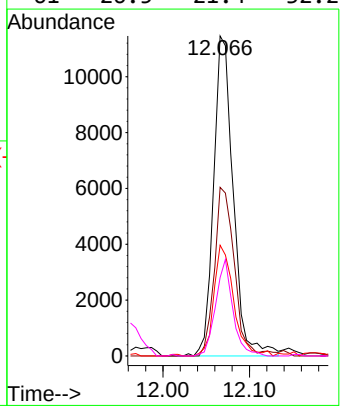
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

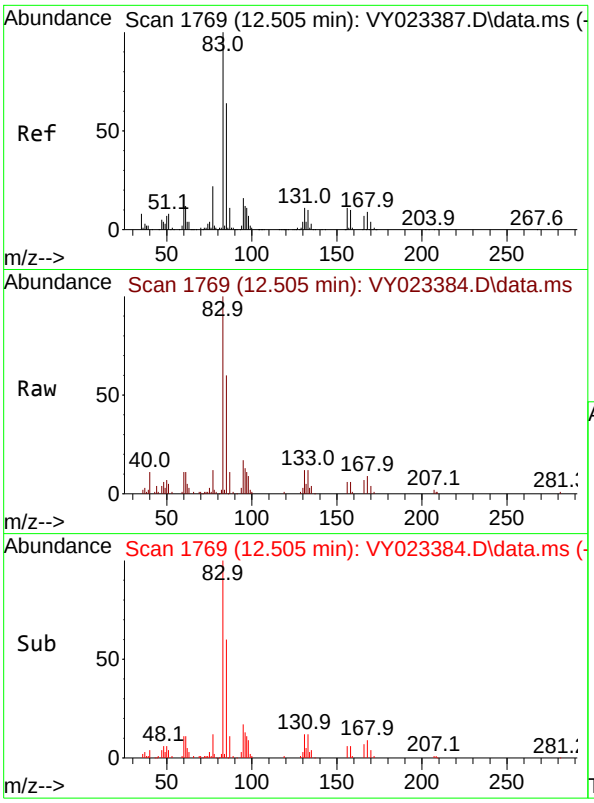


#74
N-amyl acetate
Concen: 3.833 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

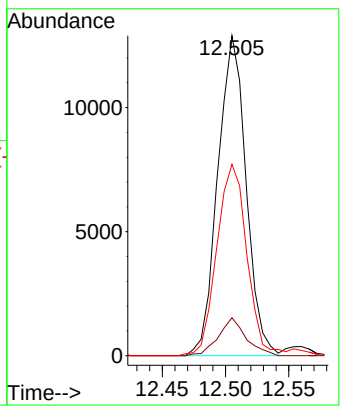




#75
1,1,2,2-Tetrachloroethane
Concen: 4.773 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 83 Resp: 2005

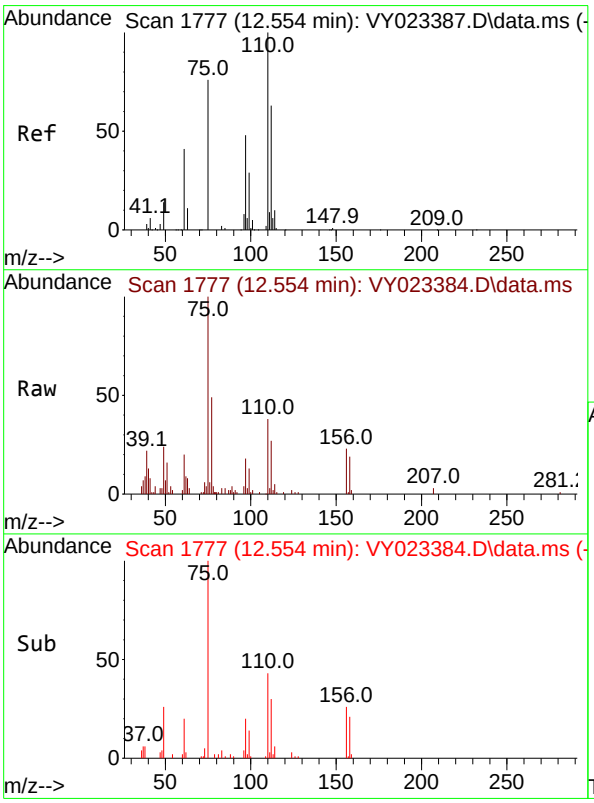
Ion	Ratio	Lower	Upper
83	100		
131	11.6	5.9	17.6
85	63.4	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

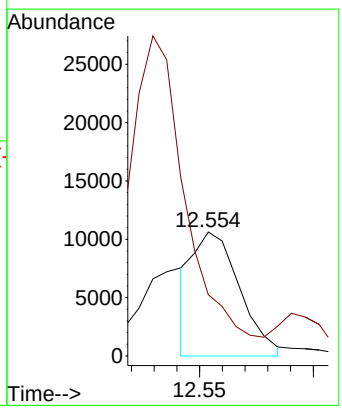
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

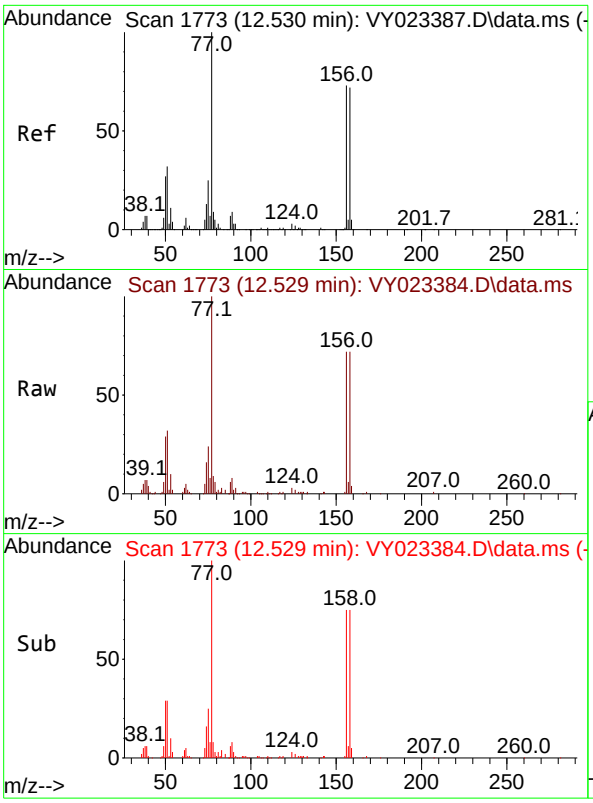


#76
1,2,3-Trichloropropane
Concen: 4.118 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 15359

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

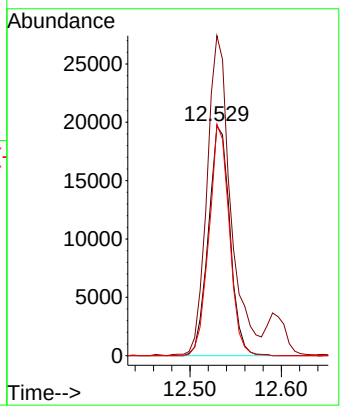




#77
Bromobenzene
Concen: 4.967 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:156 Resp: 3210

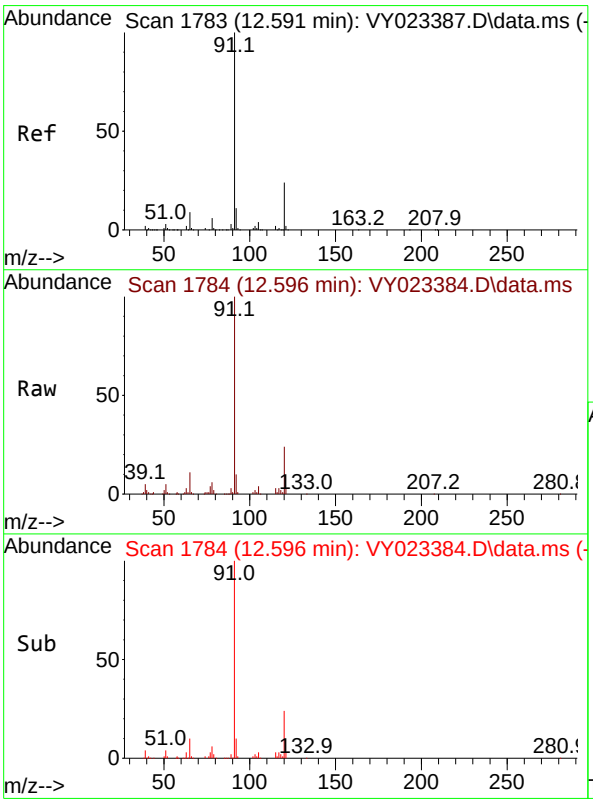
Ion	Ratio	Lower	Upper
156	100		
77	154.2	76.8	230.5
158	95.0	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

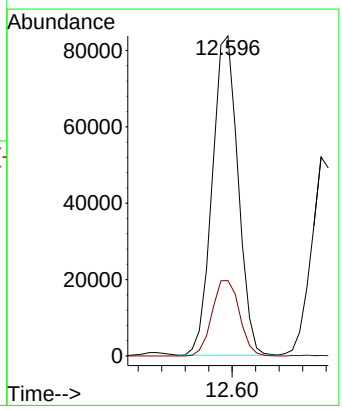
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

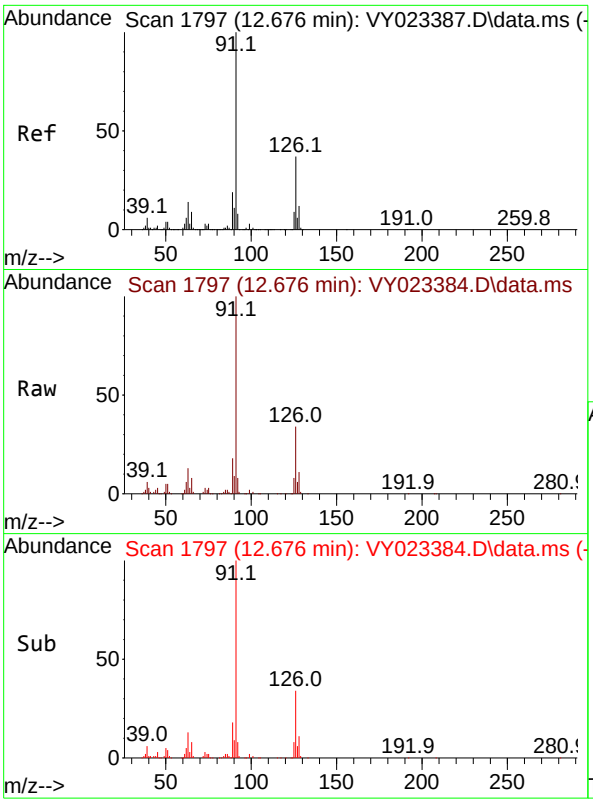


#78
n-propylbenzene
Concen: 4.305 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

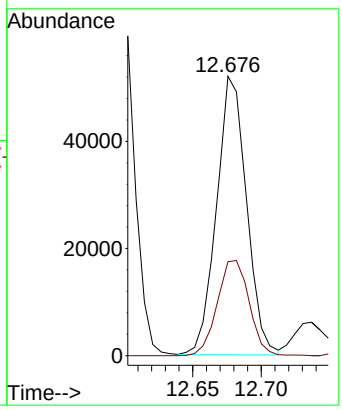
Tgt Ion: 91 Resp: 7919

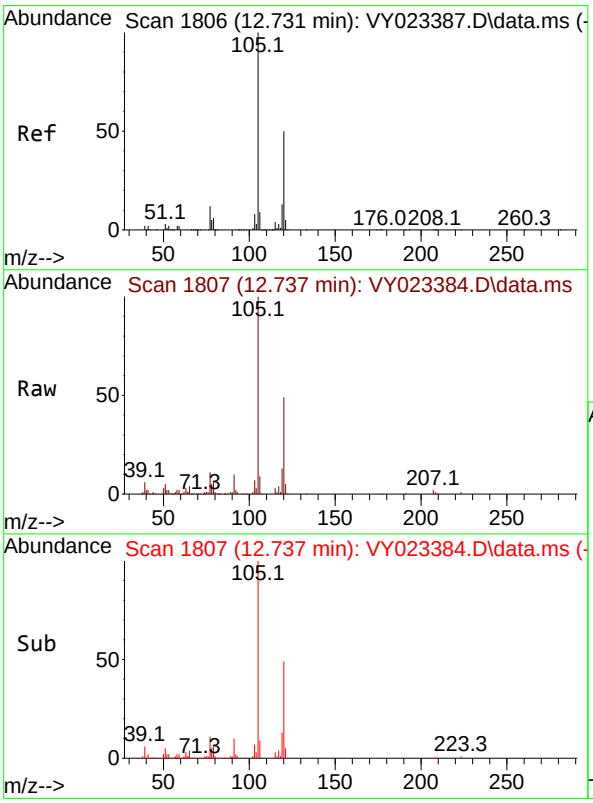
Ion	Ratio	Lower	Upper
91	100		
126	36.4	18.5	55.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

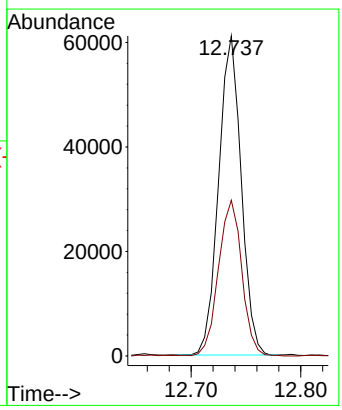


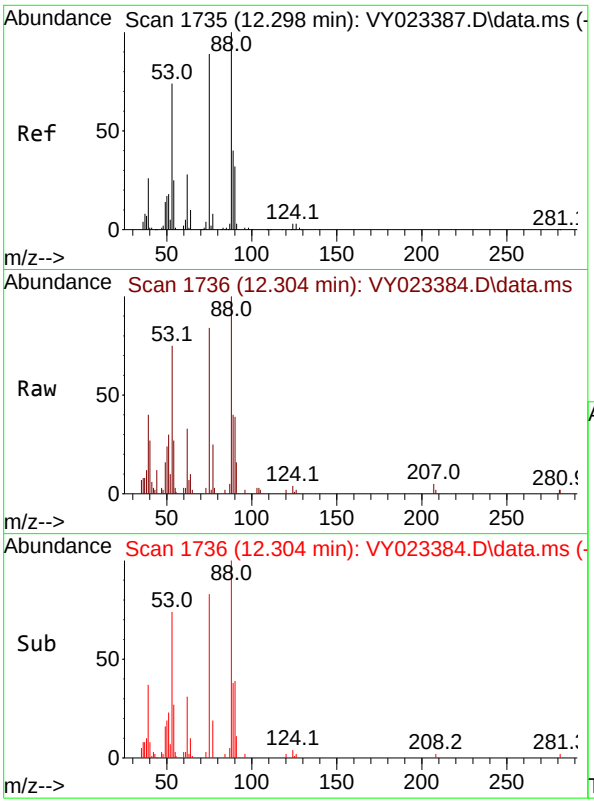


#80
1,3,5-Trimethylbenzene
Concen: 4.264 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:105 Resp: 87297

Ion	Ratio	Lower	Upper
105	100		
120	50.6	25.4	76.4

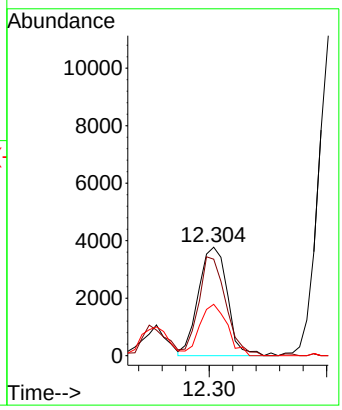




#81
trans-1,4-Dichloro-2-butene
Concen: 4.680 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 75 Resp: 647

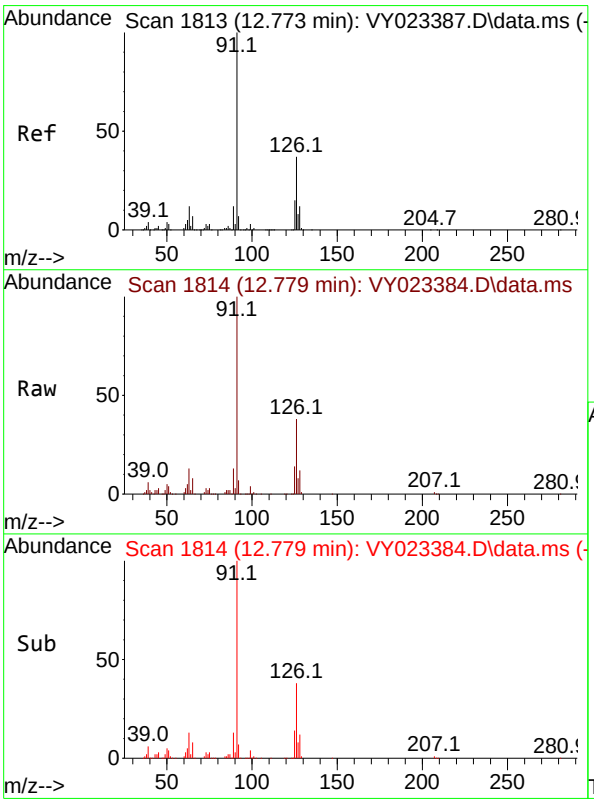
Ion	Ratio	Lower	Upper
75	100		
53	85.6	68.6	102.8
89	44.4	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

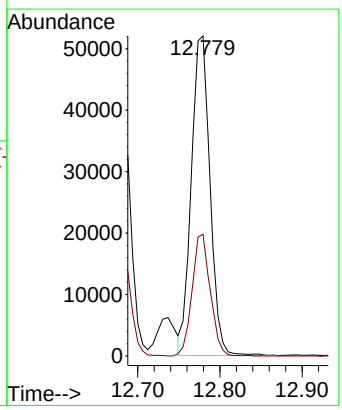
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

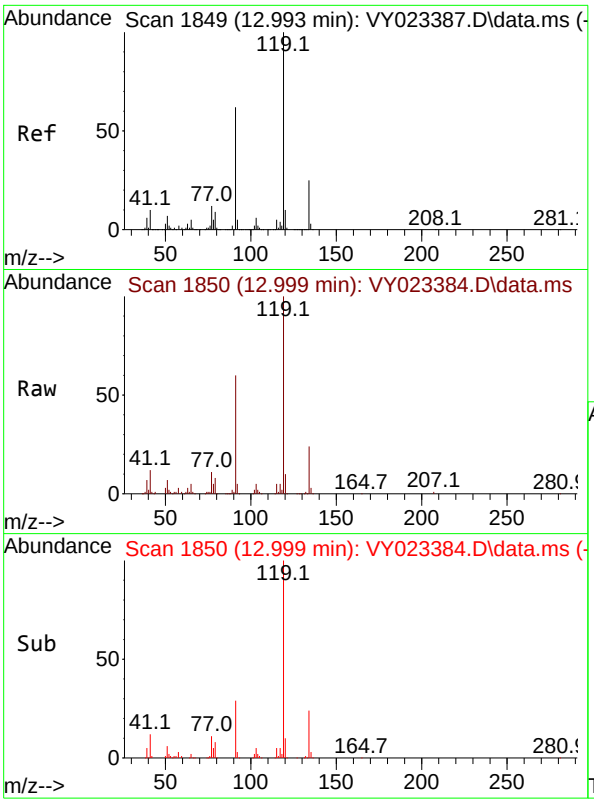


#82
4-Chlorotoluene
Concen: 4.600 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 82155

Ion	Ratio	Lower	Upper
91	100		
126	36.9	18.4	55.4

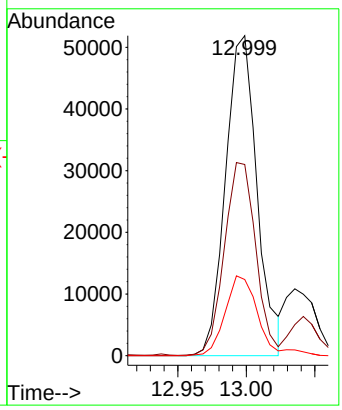




#83
tert-Butylbenzene
Concen: 4.457 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:119 Resp: 8315

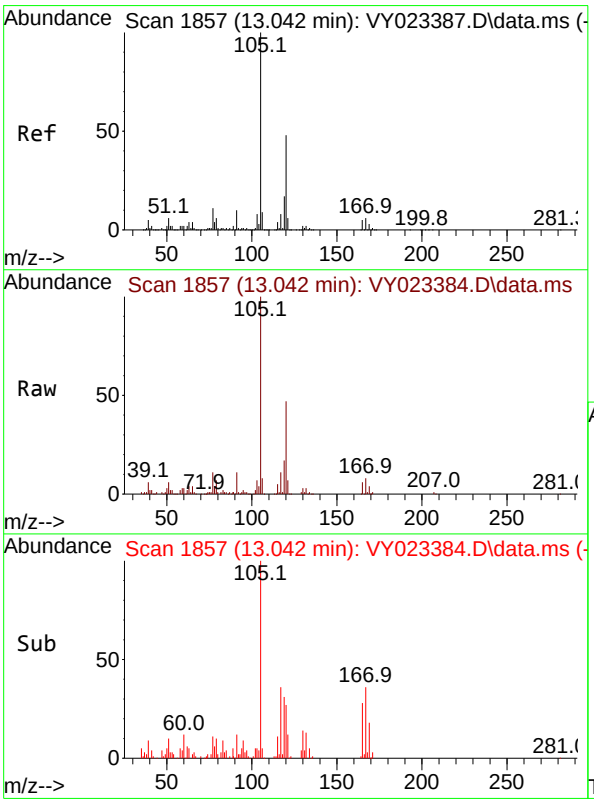
Ion	Ratio	Lower	Upper
119	100		
91	60.0	29.9	89.8
134	26.2	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

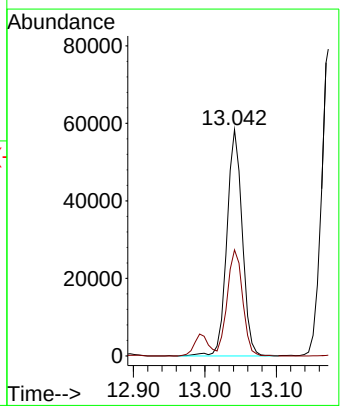
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

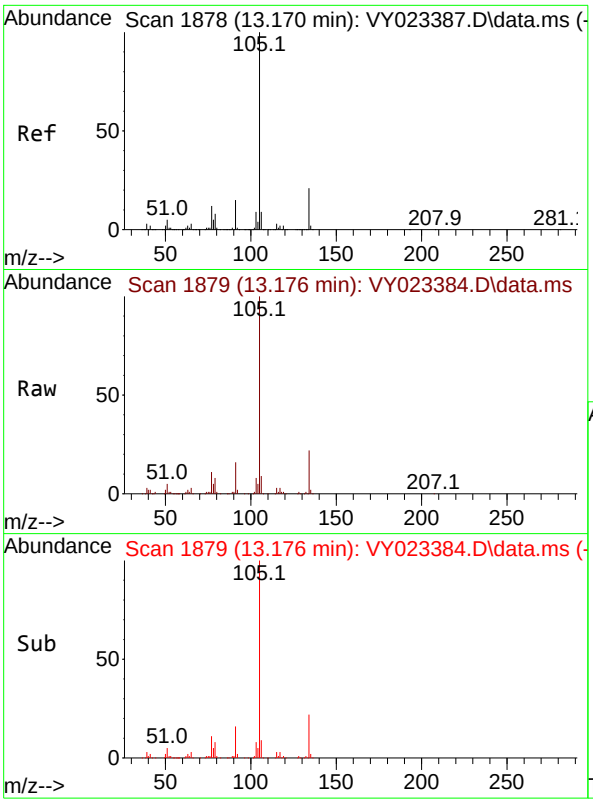


#84
1,2,4-Trimethylbenzene
Concen: 4.294 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:105 Resp: 86988

Ion	Ratio	Lower	Upper
105	100		
120	46.8	23.8	71.2

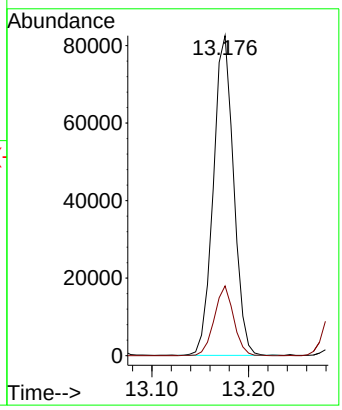




#85
sec-Butylbenzene
Concen: 4.443 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:105 Resp: 12006

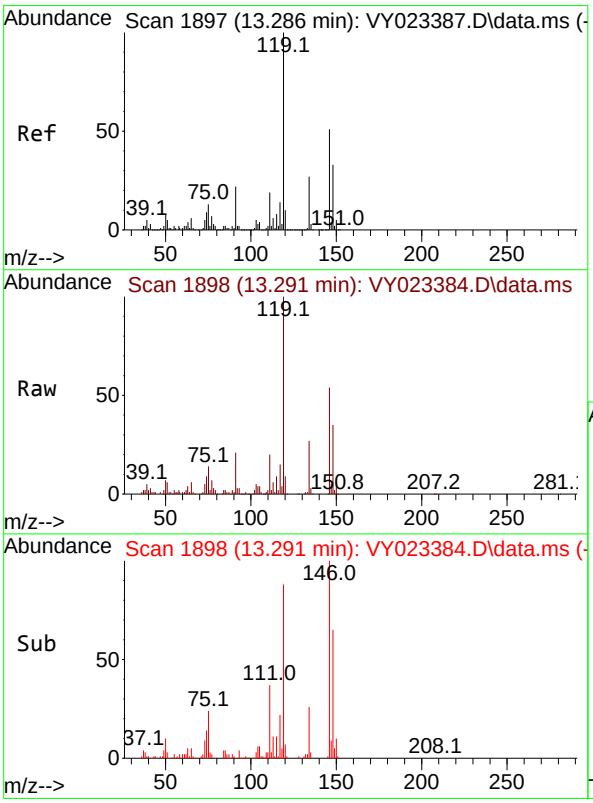
Ion	Ratio	Lower	Upper
105	100		
134	20.9	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

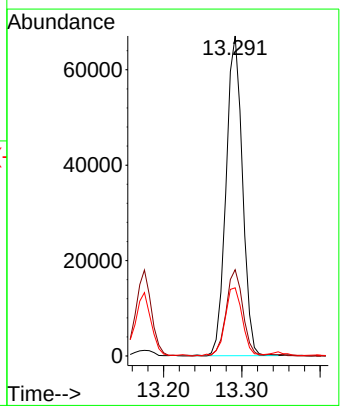
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

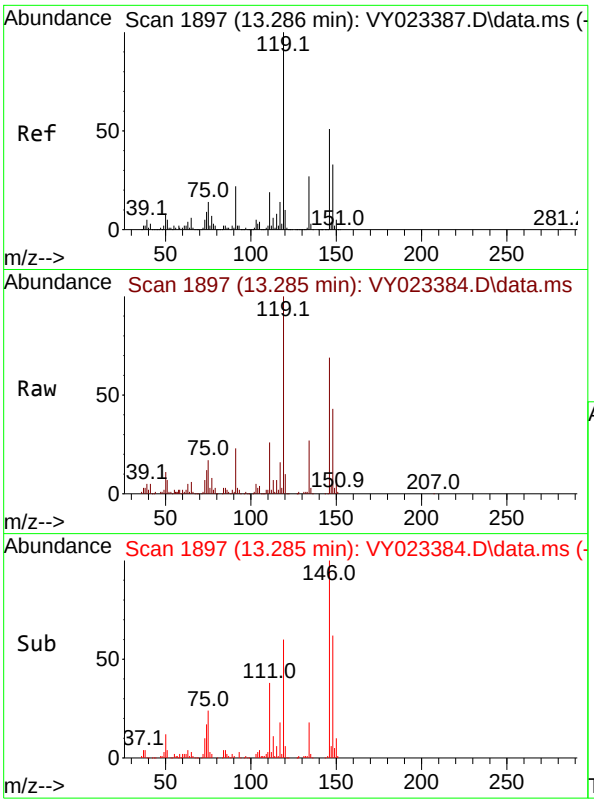


#86
p-Isopropyltoluene
Concen: 4.264 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

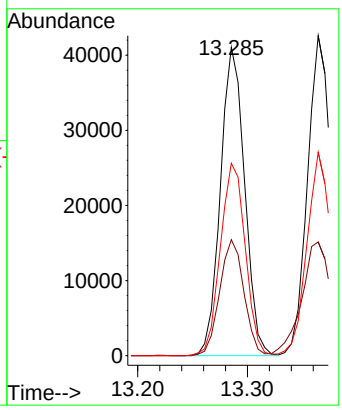




#87
1,3-Dichlorobenzene
Concen: 4.936 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:146 Resp: 6302

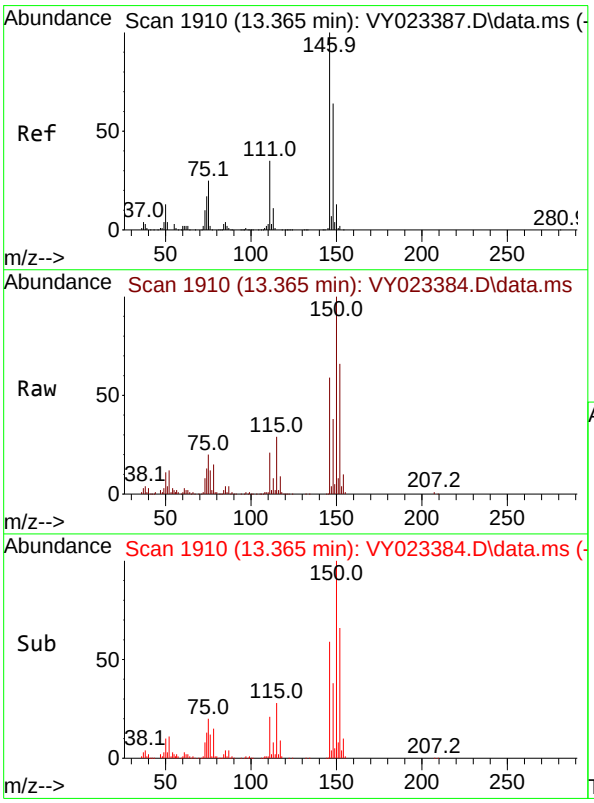
Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.7	56.1
148	64.1	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

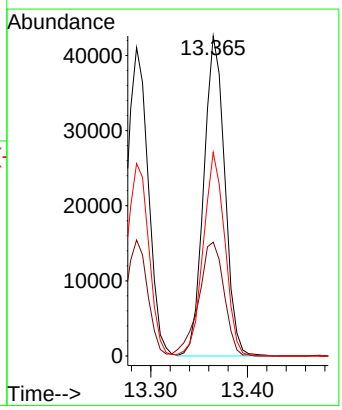
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

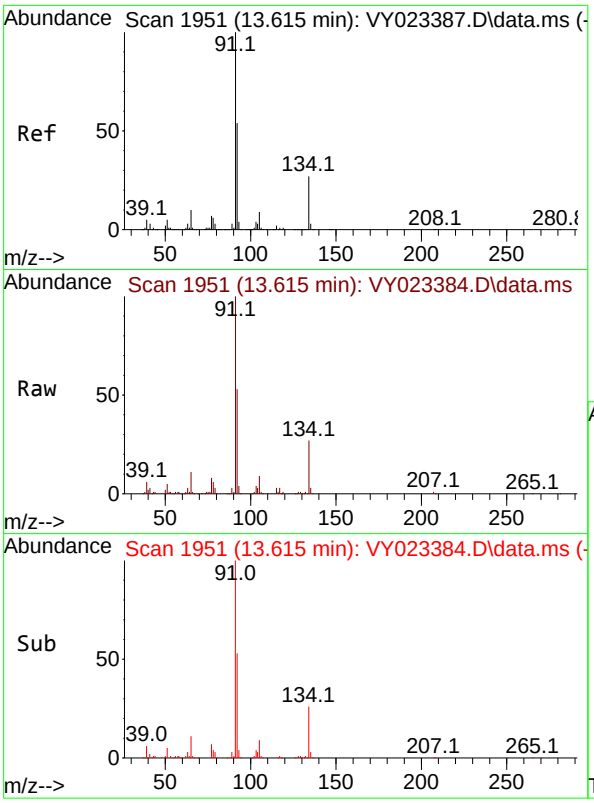


#88
1,4-Dichlorobenzene
Concen: 5.085 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

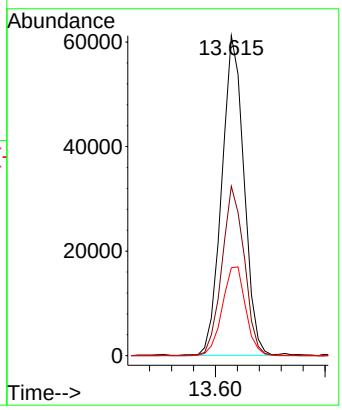




#89
n-Butylbenzene
Concen: 4.274 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion: 91 Resp: 8617

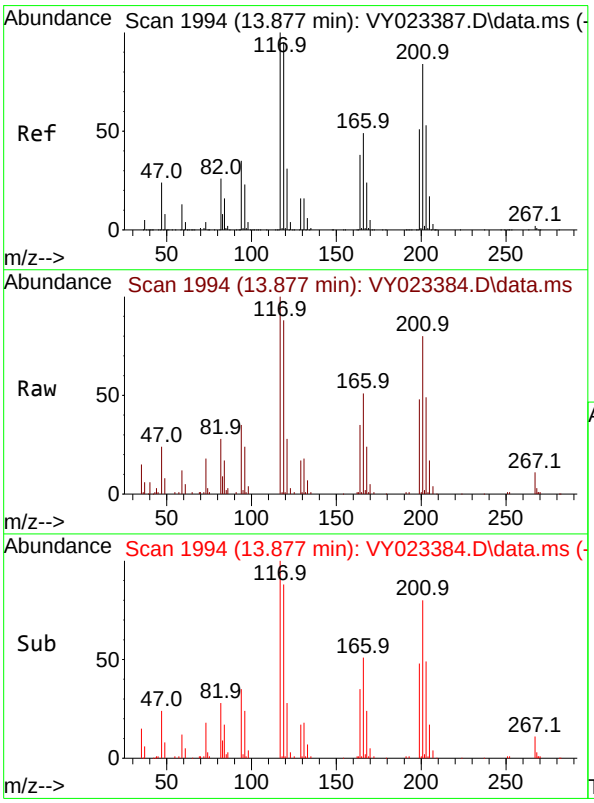
Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.0	80.8
134	29.2	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

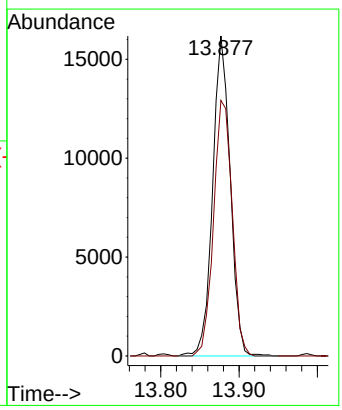
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

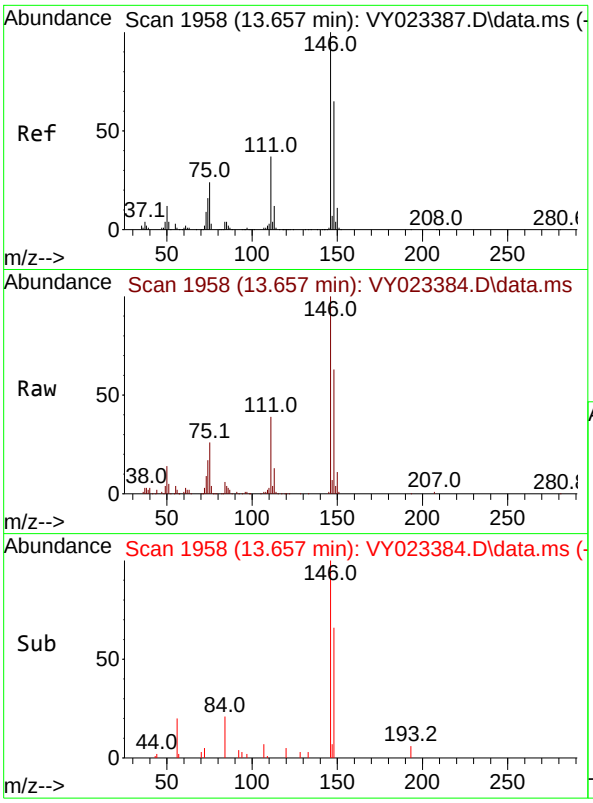


#90
Hexachloroethane
Concen: 5.084 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:117 Resp: 25204

Ion	Ratio	Lower	Upper
117	100		
201	84.7	43.8	131.4

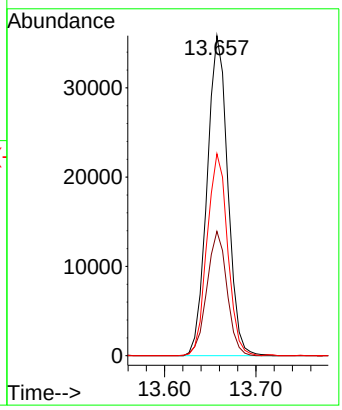




#91
1,2-Dichlorobenzene
Concen: 5.041 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

Tgt Ion:146 Resp: 5616

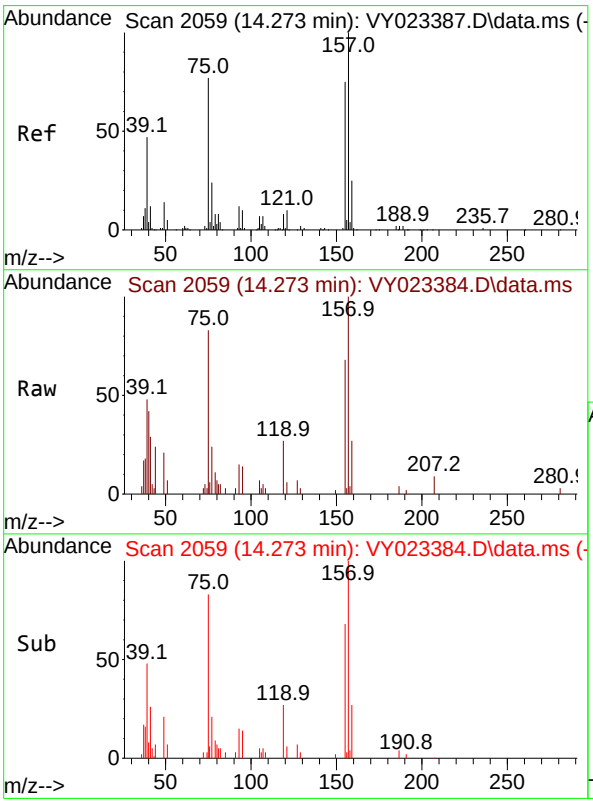
Ion	Ratio	Lower	Upper
146	100		
111	37.8	19.0	57.0
148	63.0	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

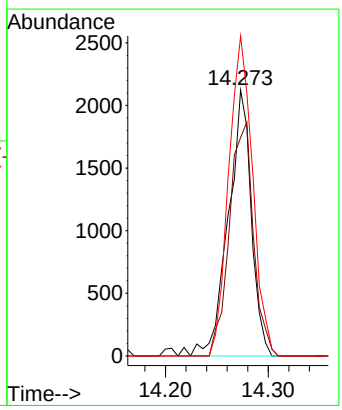
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

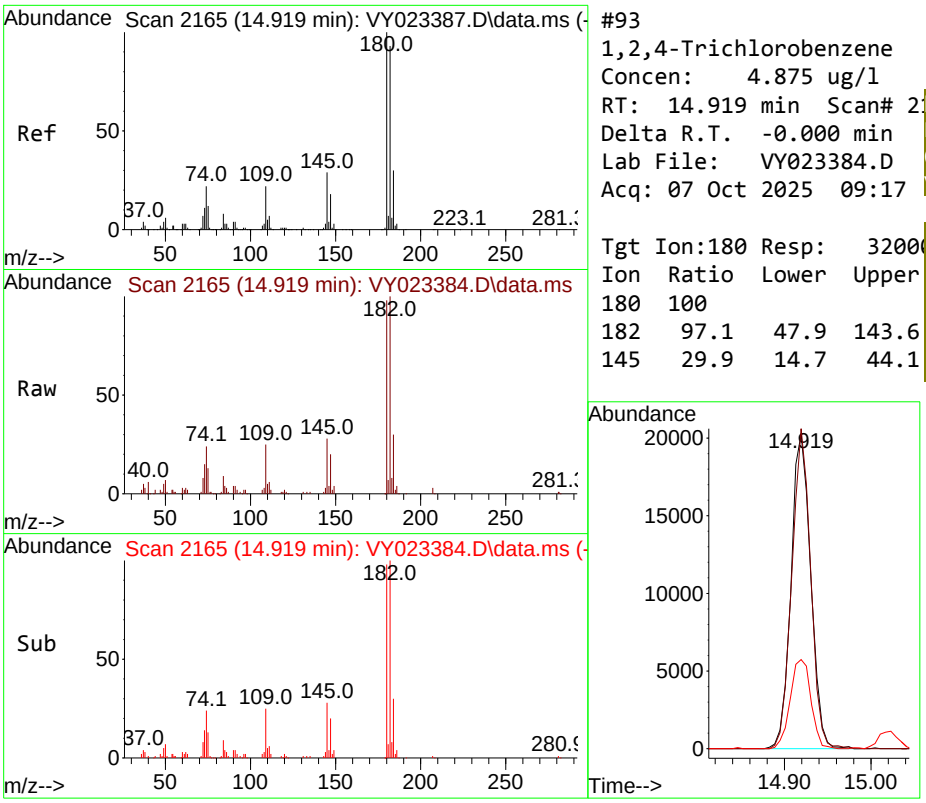


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.964 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023384.D
Acq: 07 Oct 2025 09:17

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

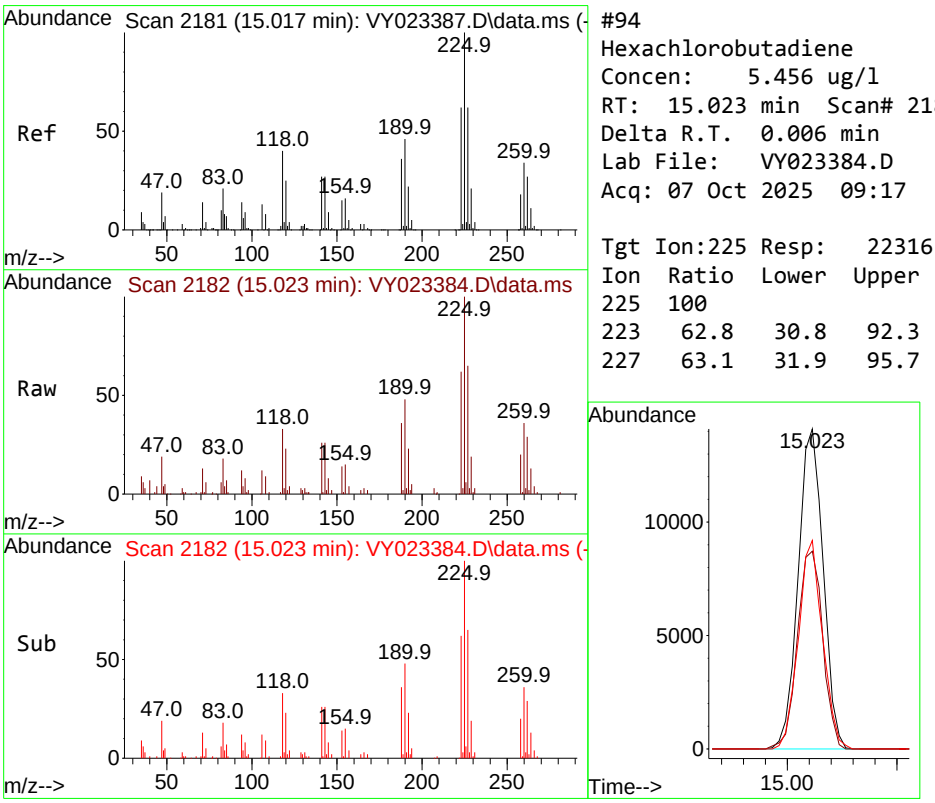
Tgt Ion:180 Resp: 3200

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

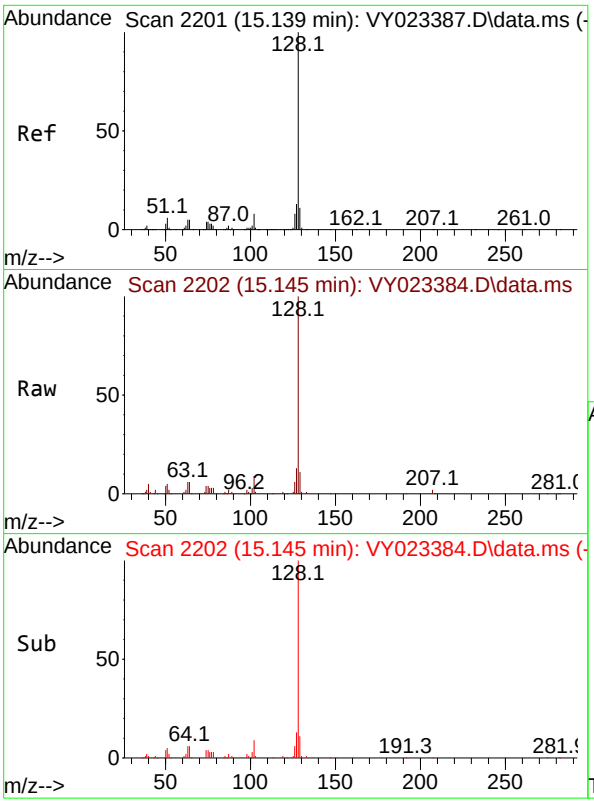
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

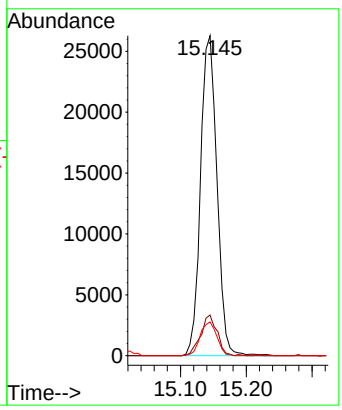
Ion	Ratio	Lower	Upper
225	100		
223	62.8	30.8	92.3
227	63.1	31.9	95.7



#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

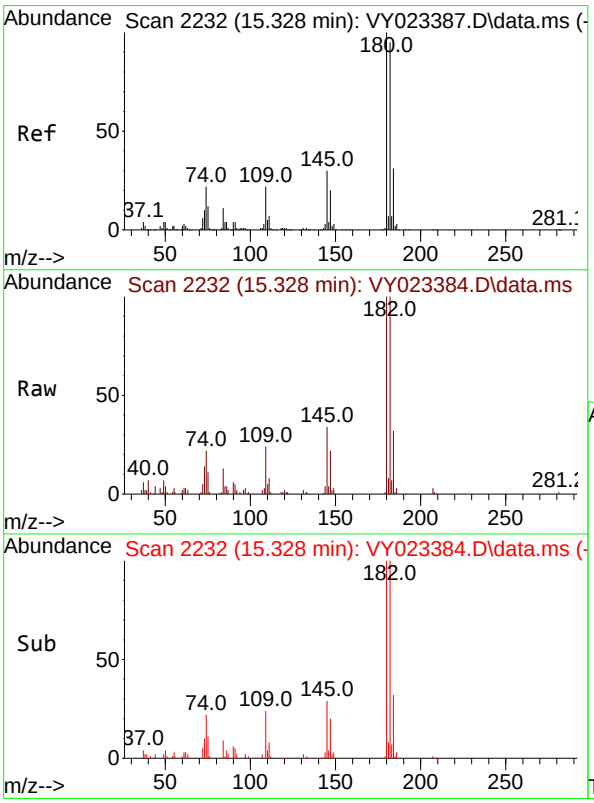
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.4	15.6
129	10.7	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

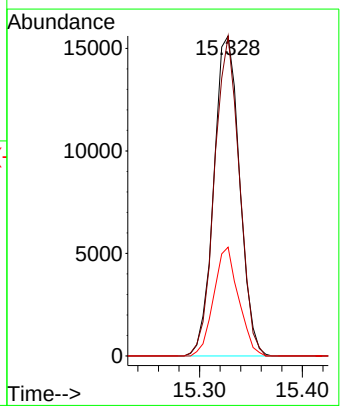
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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



Quantitation Report (QT Reviewed)

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)
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

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

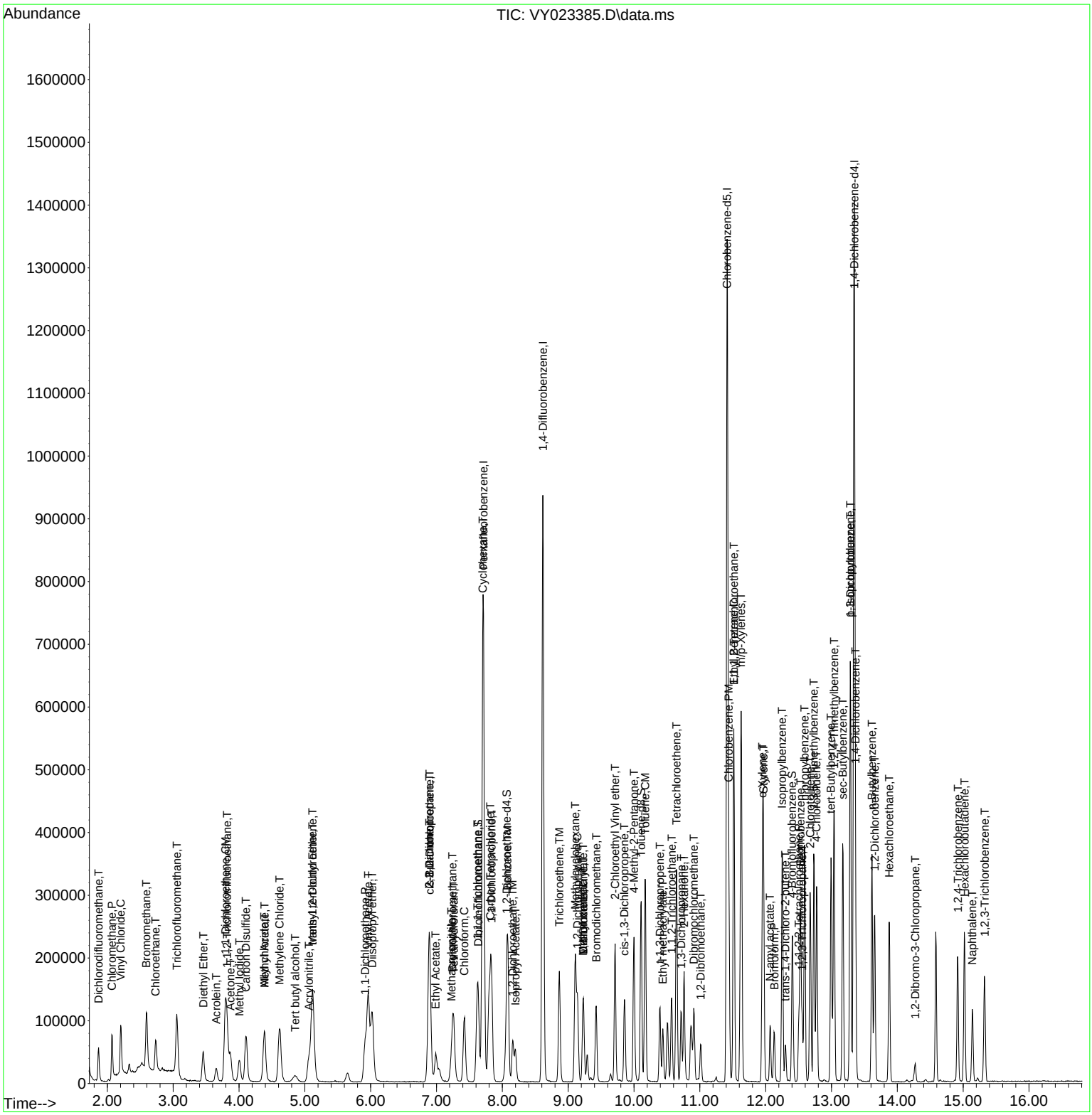
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023385.D
Acq On : 07 Oct 2025 10:02
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

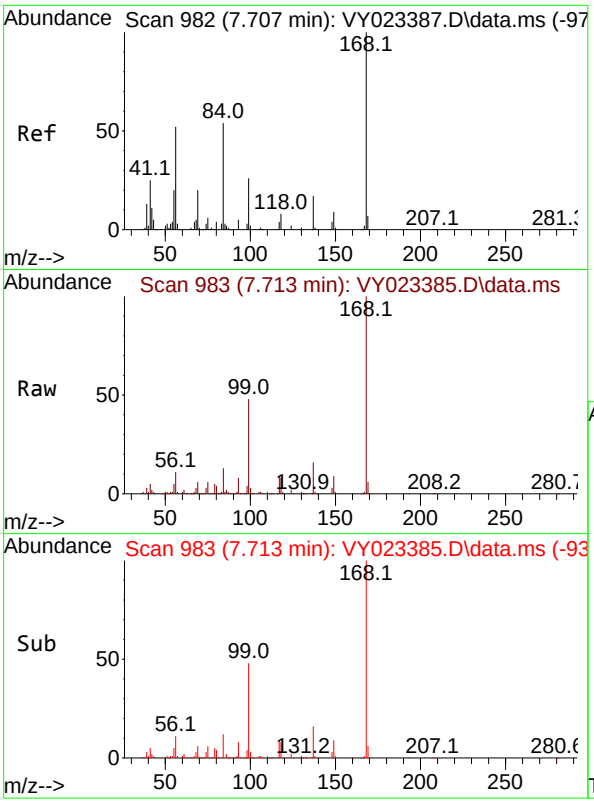
Quant Time: Oct 08 04:40:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

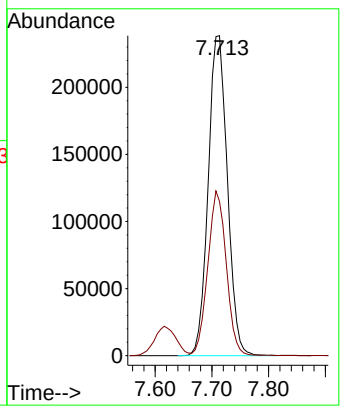




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:168 Resp: 55982

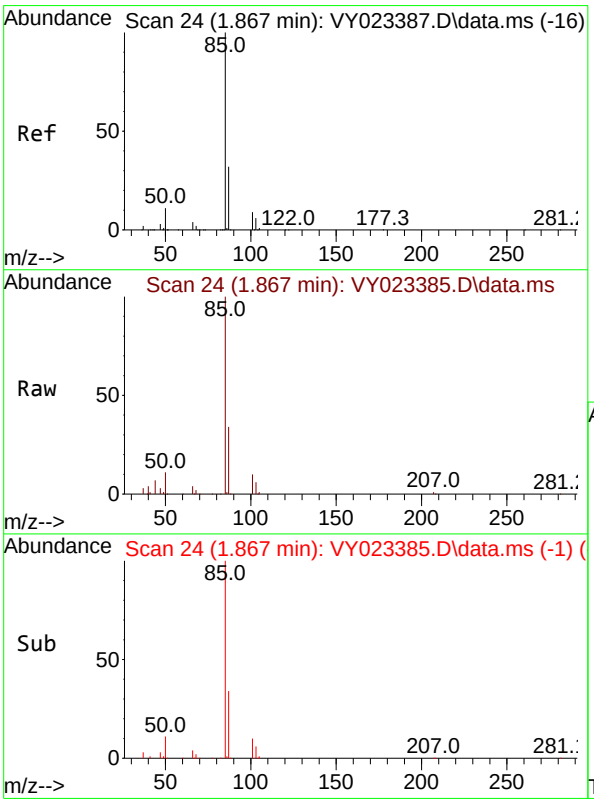
Ion	Ratio	Lower	Upper
168	100		
99	48.2	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

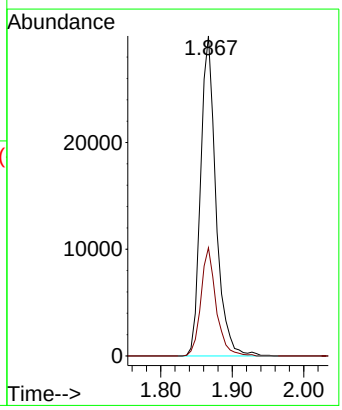
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

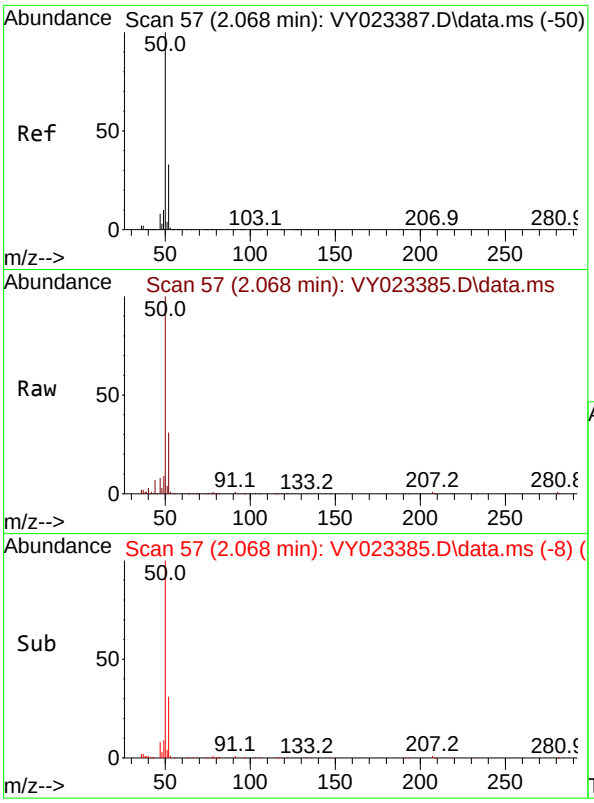


#2
Dichlorodifluoromethane
Concen: 10.129 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 85 Resp: 44666

Ion	Ratio	Lower	Upper
85	100		
87	33.8	16.0	47.9

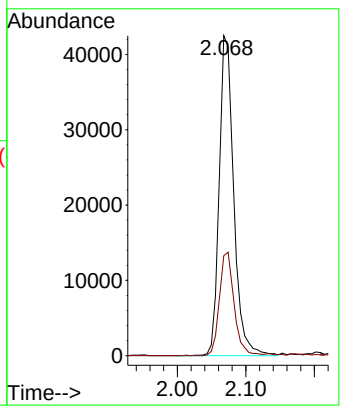




#3
Chloromethane
Concen: 9.957 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 50 Resp: 6241

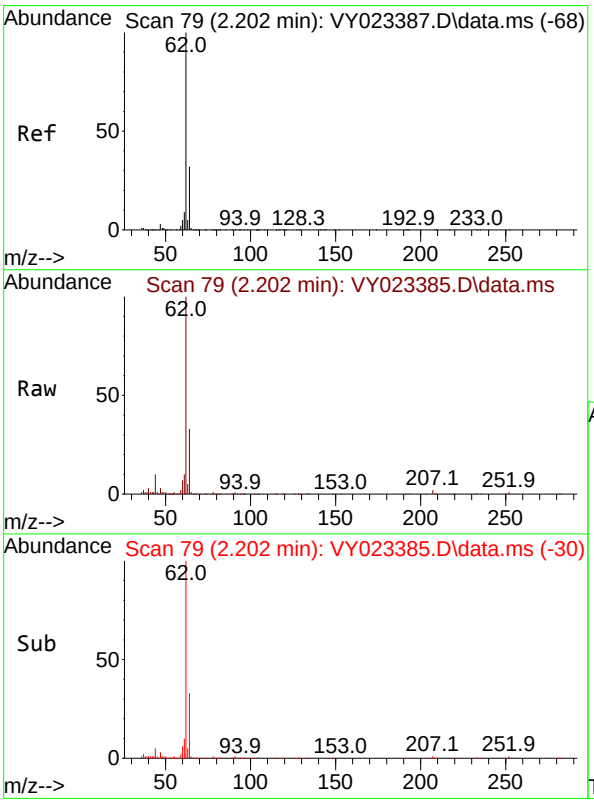
Ion	Ratio	Lower	Upper
50	100		
52	31.2	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

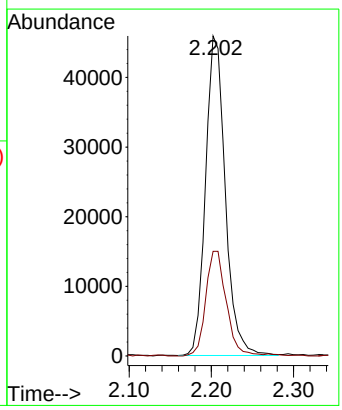
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

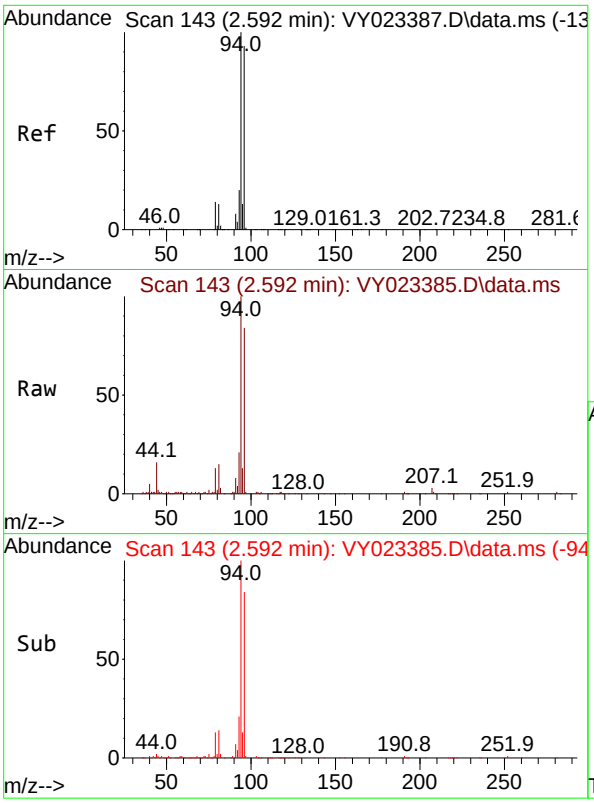


#4
Vinyl Chloride
Concen: 9.676 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

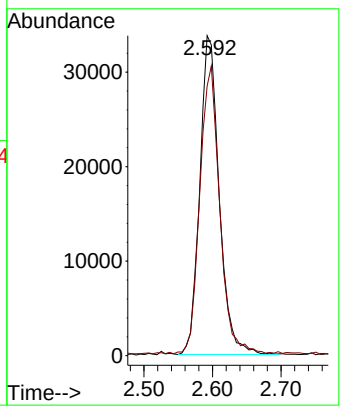
Tgt Ion: 94 Resp: 6668

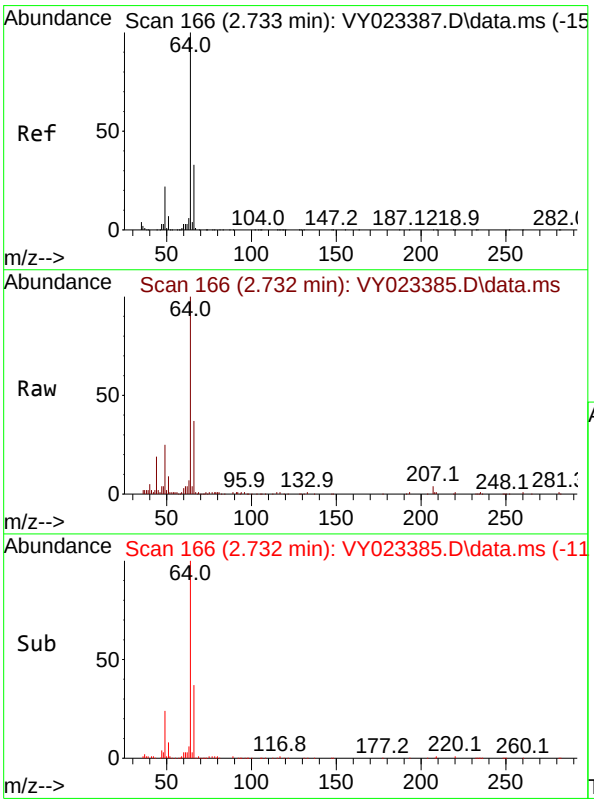
Ion	Ratio	Lower	Upper
94	100		
96	83.4	74.5	111.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

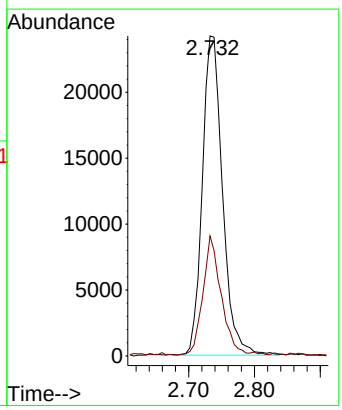


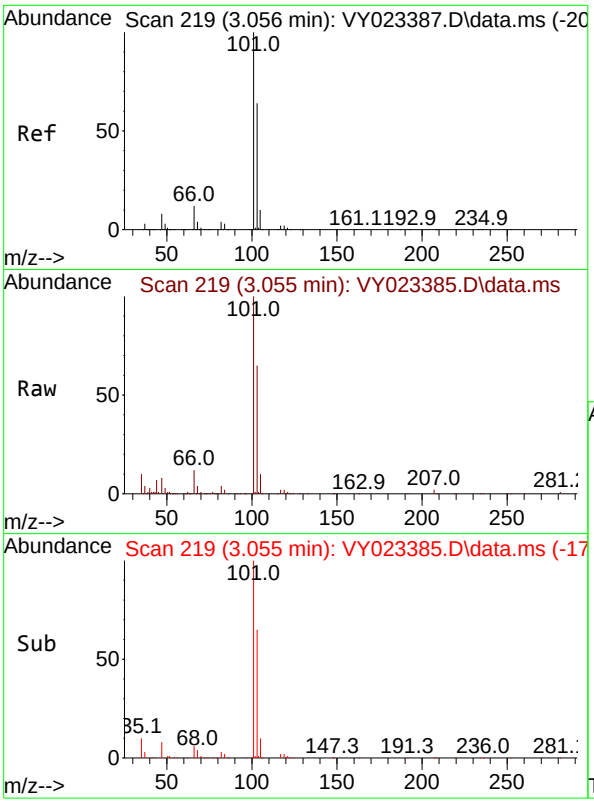


#6
Chloroethane
Concen: 9.632 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

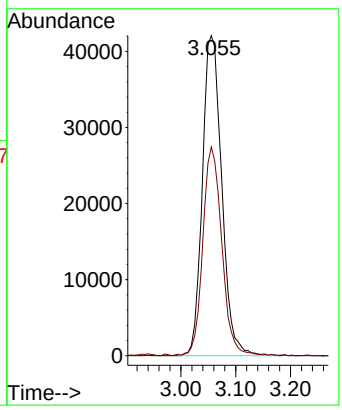
Tgt Ion:101 Resp: 10297

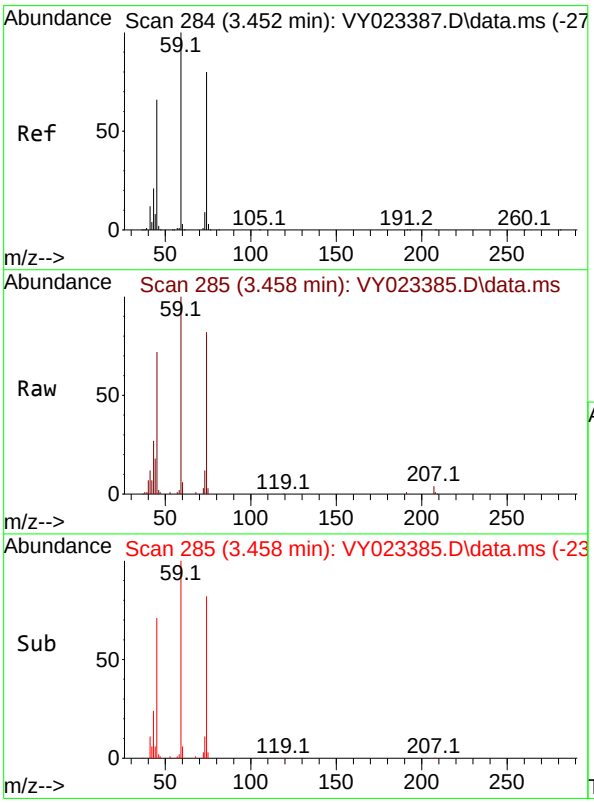
Ion	Ratio	Lower	Upper
101	100		
103	65.1	51.3	76.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

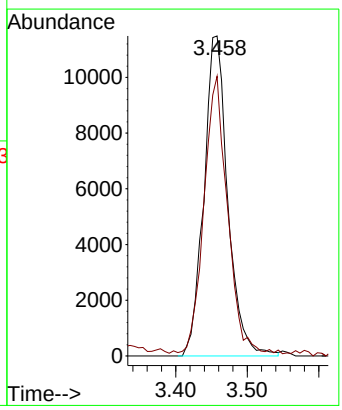


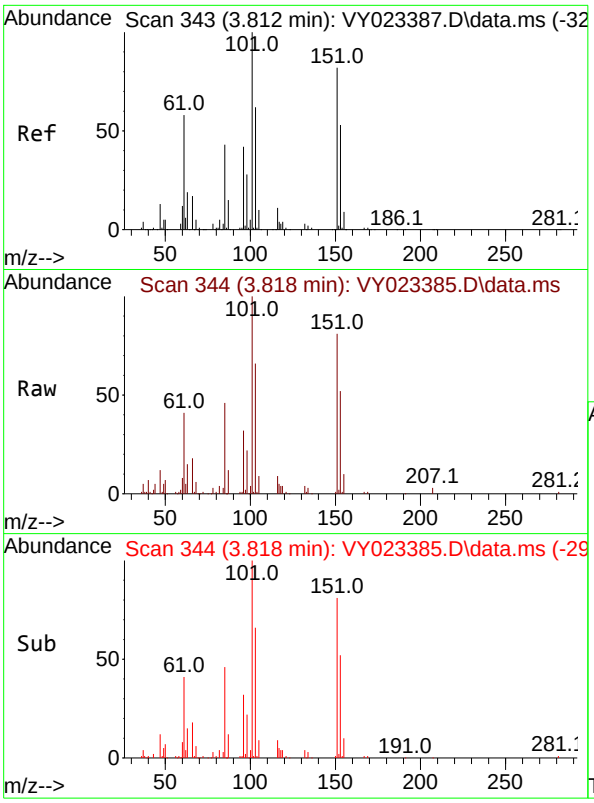


#8
Diethyl Ether
Concen: 10.047 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

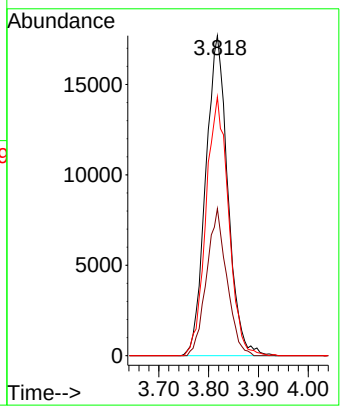
Tgt Ion:101 Resp: 5440

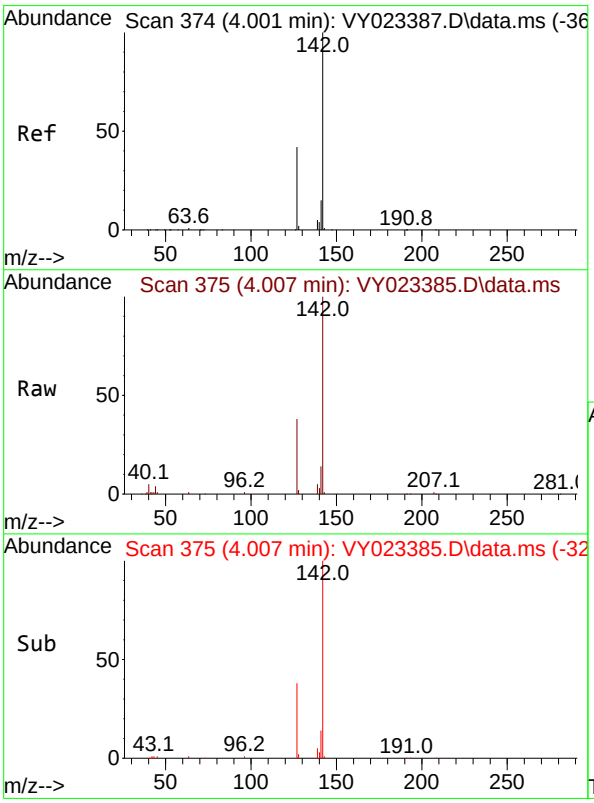
Ion	Ratio	Lower	Upper
101	100		
85	42.2	34.6	51.8
151	82.7	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

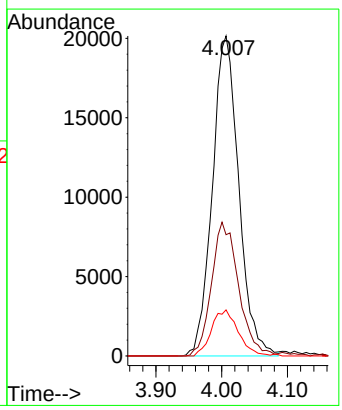


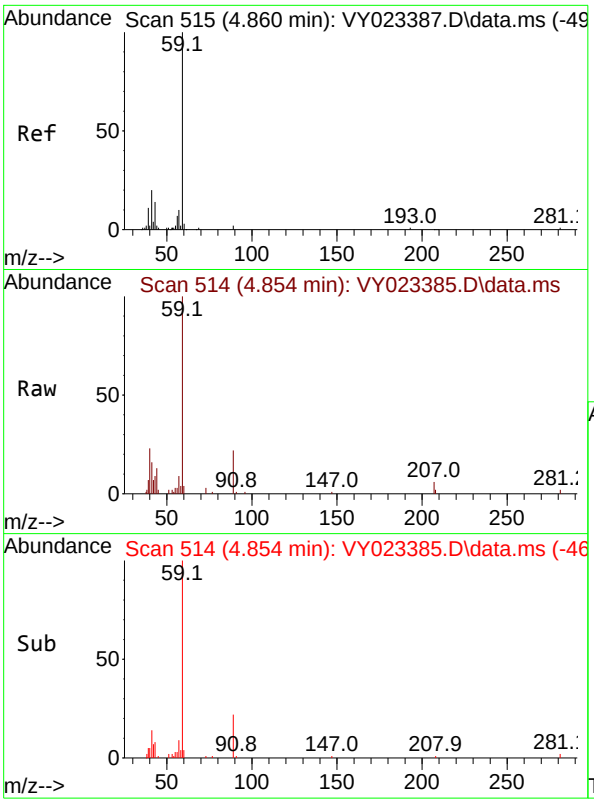


#10
Methyl Iodide
Concen: 8.967 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

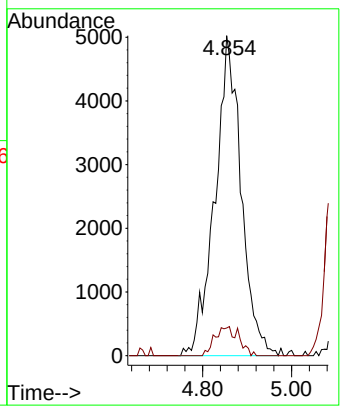




#11
Tert butyl alcohol
Concen: 71.998 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 59 Resp: 2054

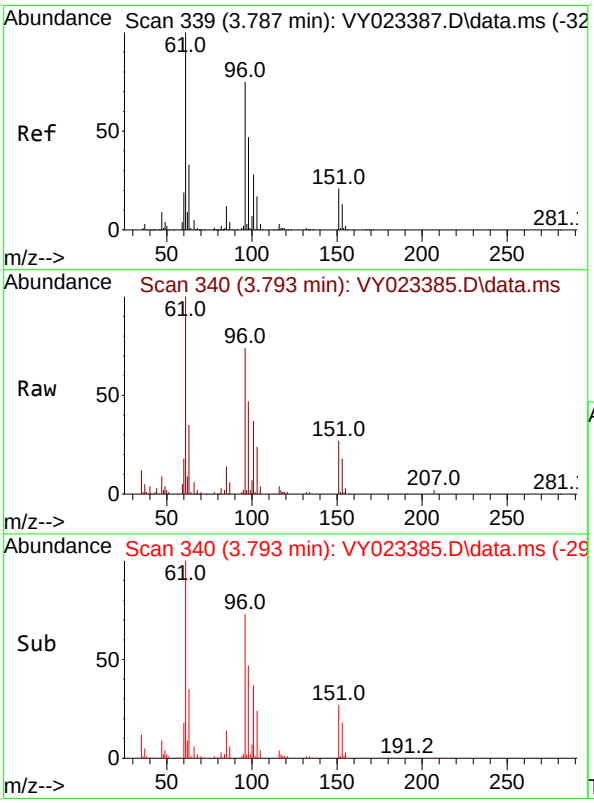
Ion	Ratio	Lower	Upper
59	100		
57	6.3	8.3	12.5#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

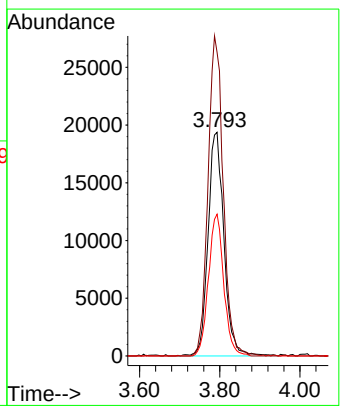
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

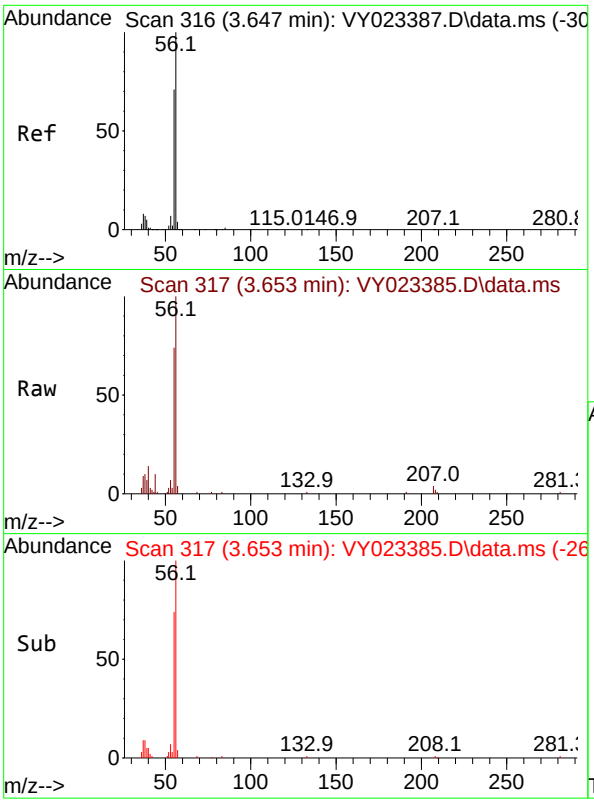


#12
1,1-Dichloroethene
Concen: 10.173 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

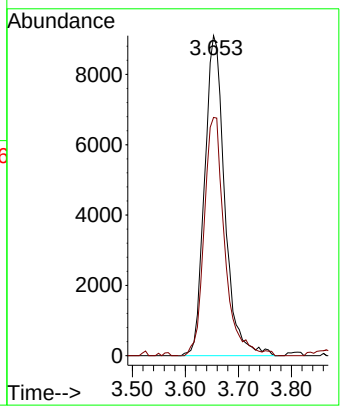




#13
Acrolein
Concen: 49.681 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 56 Resp: 2401

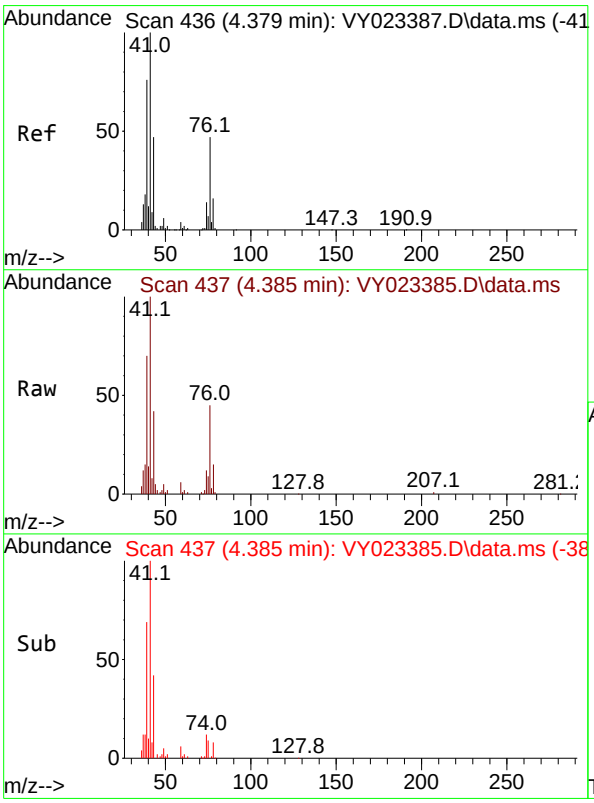
Ion	Ratio	Lower	Upper
56	100		
55	75.2	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

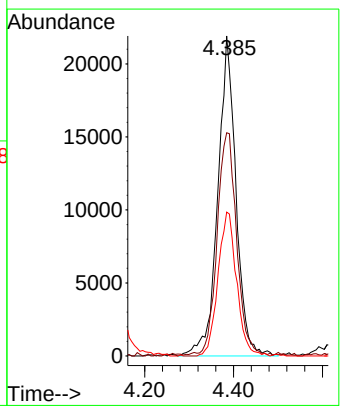
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

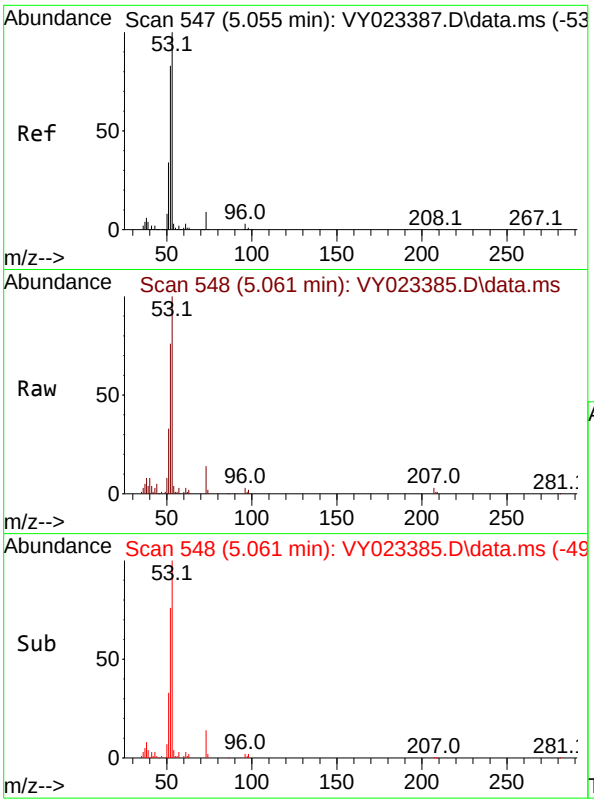


#14
Allyl chloride
Concen: 9.494 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

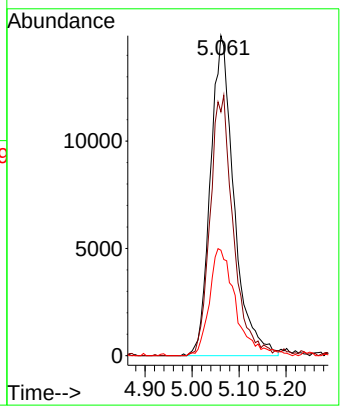




#15
Acrylonitrile
Concen: 49.854 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 53 Resp: 5193

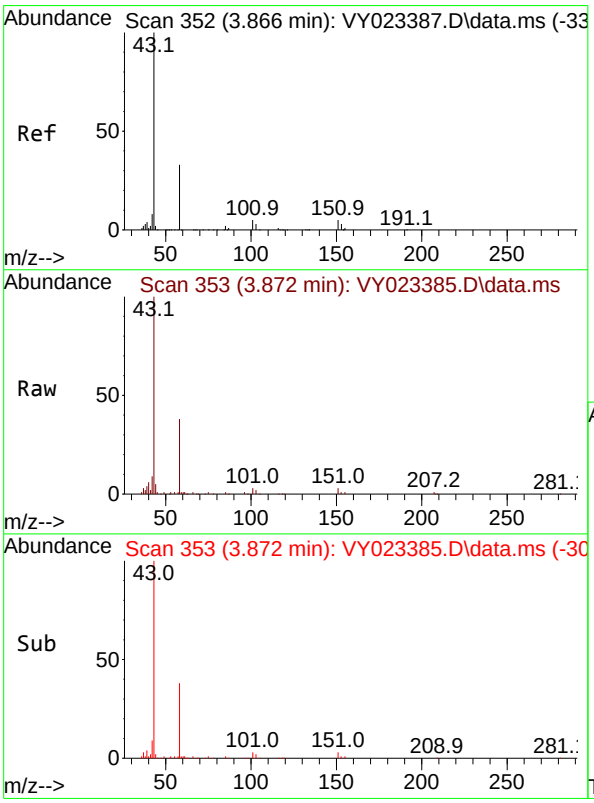
Ion	Ratio	Lower	Upper
53	100		
52	79.5	64.6	97.0
51	37.4	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

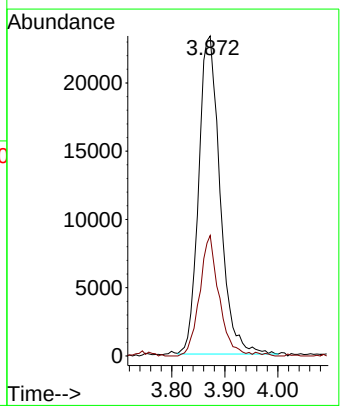
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

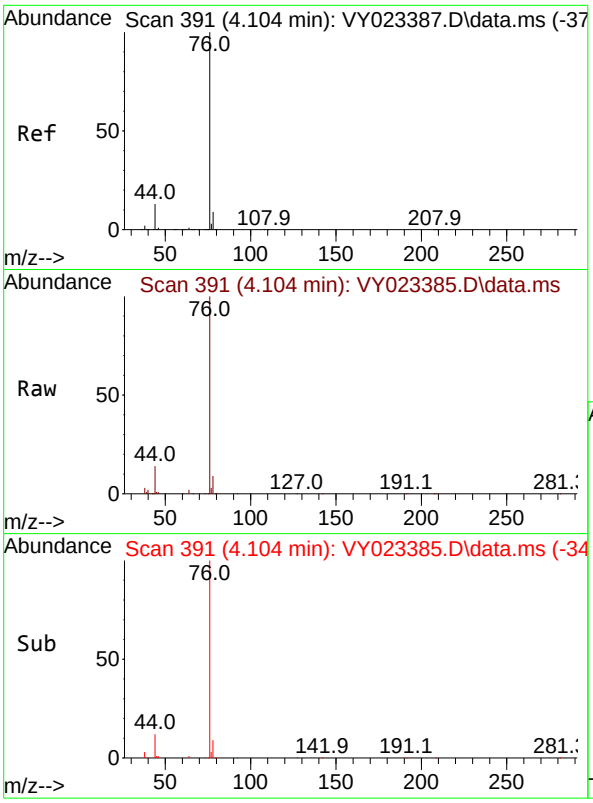


#16
Acetone
Concen: 59.997 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 65410

Ion	Ratio	Lower	Upper
43	100		
58	37.9	27.7	41.5

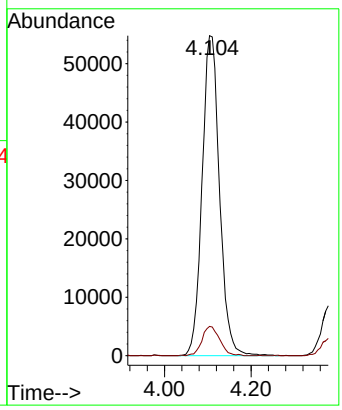




#17
Carbon Disulfide
Concen: 9.382 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 76 Resp: 15305

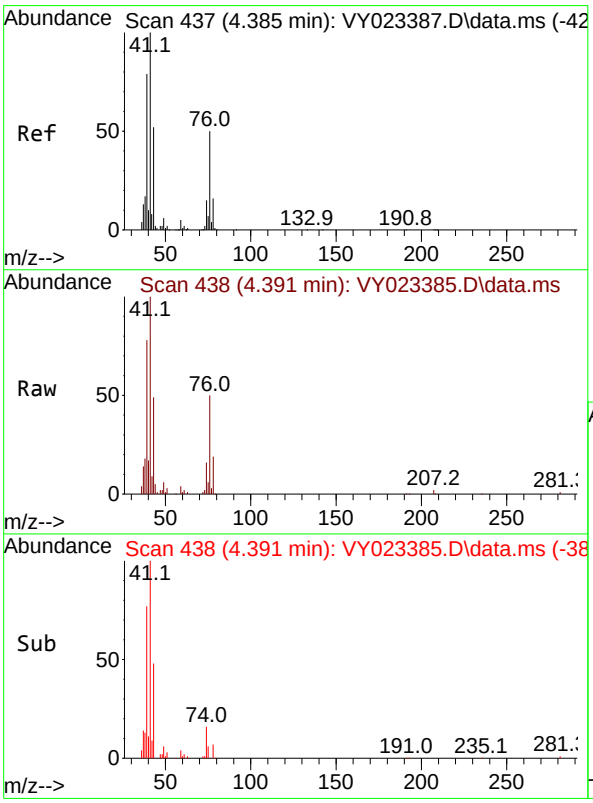
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

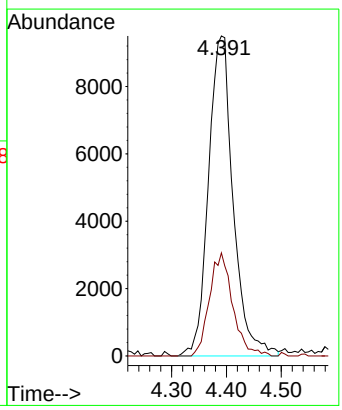
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

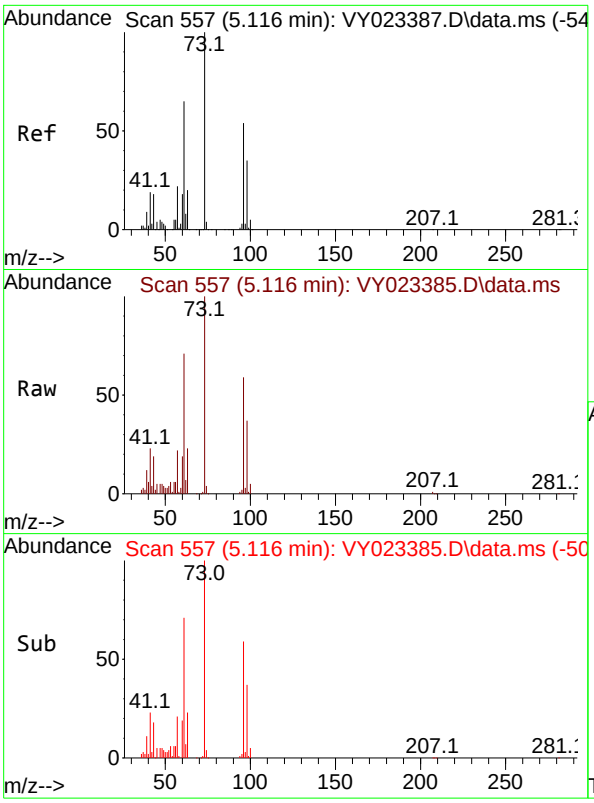


#18
Methyl Acetate
Concen: 10.728 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 29725

Ion	Ratio	Lower	Upper
43	100		
74	30.3	24.2	36.4

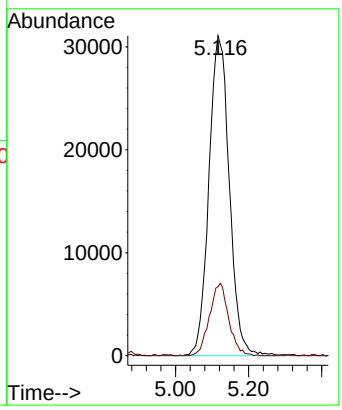




#19
Methyl tert-butyl Ether
Concen: 9.830 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 73 Resp: 12034

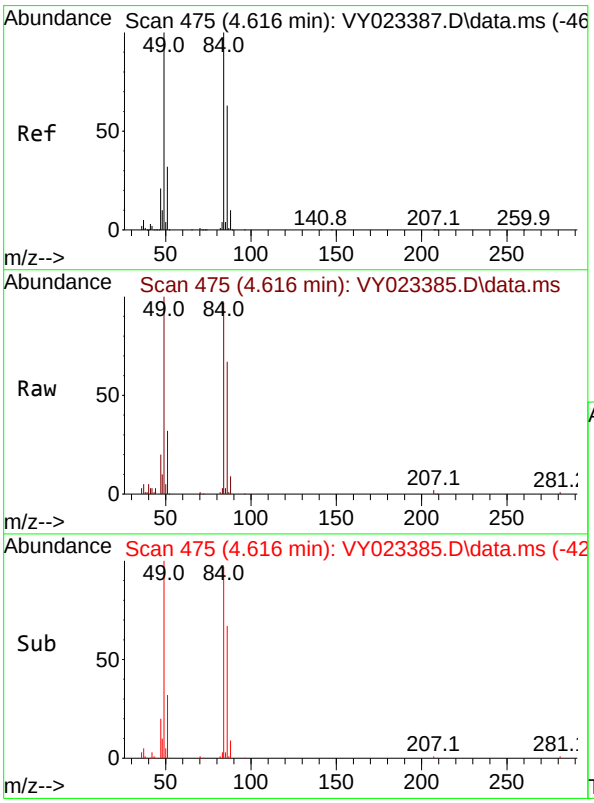
Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

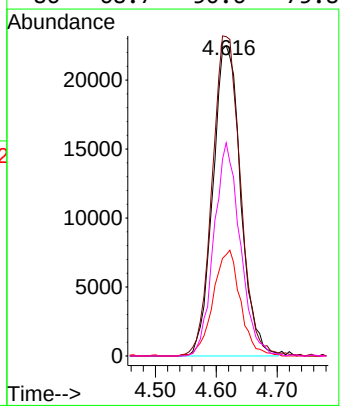
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

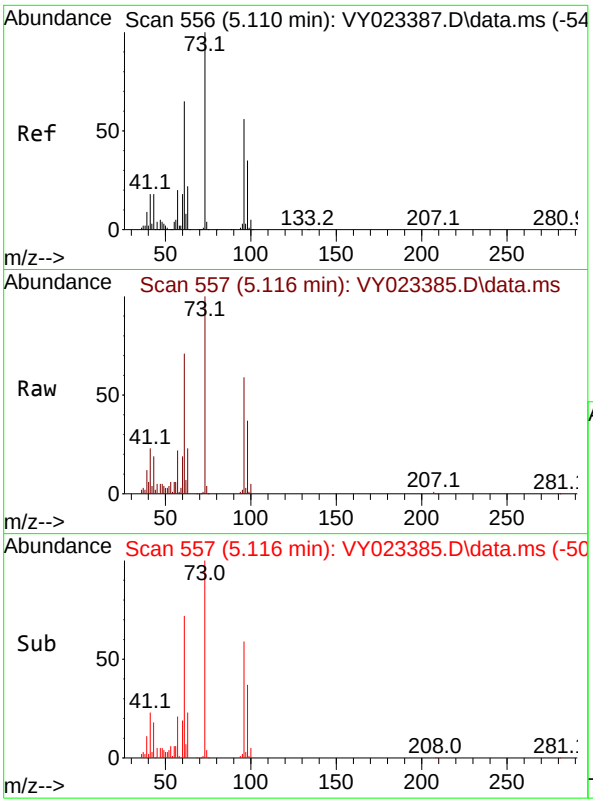


#20
Methylene Chloride
Concen: 12.016 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

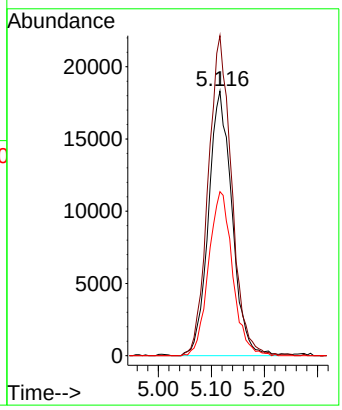




#21
trans-1,2-Dichloroethene
Concen: 9.710 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 96 Resp: 5646

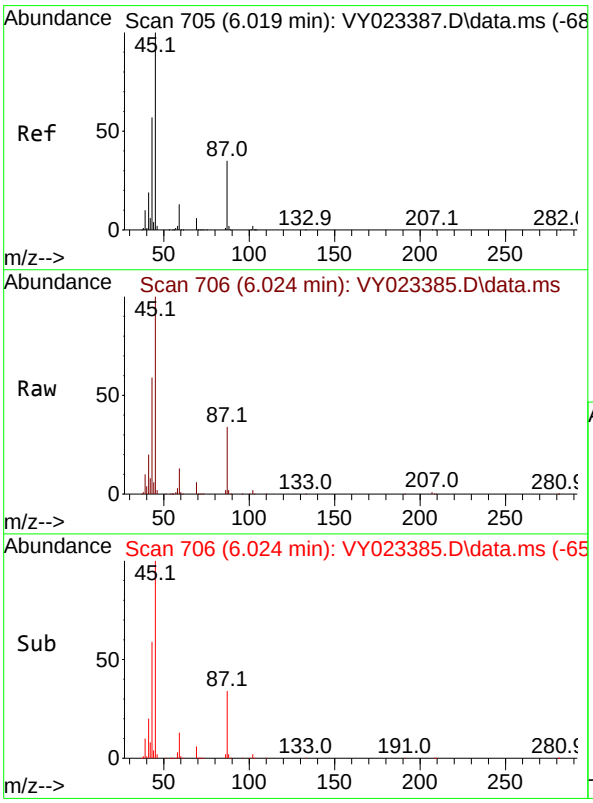
Ion	Ratio	Lower	Upper
96	100		
61	121.0	92.7	139.1
98	62.0	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

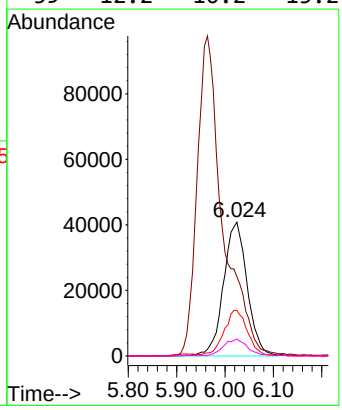
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

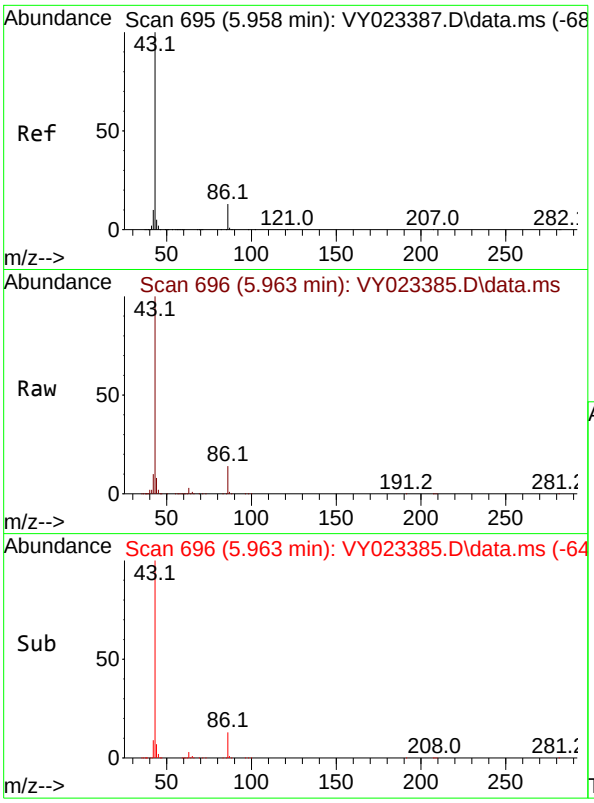


#22
Diisopropyl ether
Concen: 9.547 ug/l
RT: 6.024 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

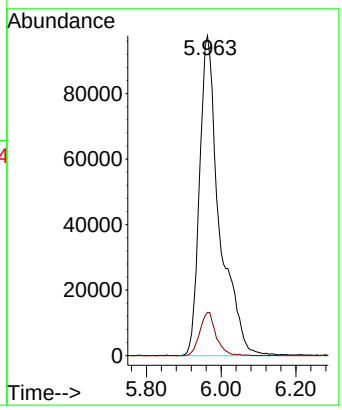




#23
Vinyl Acetate
Concen: 45.300 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 36147

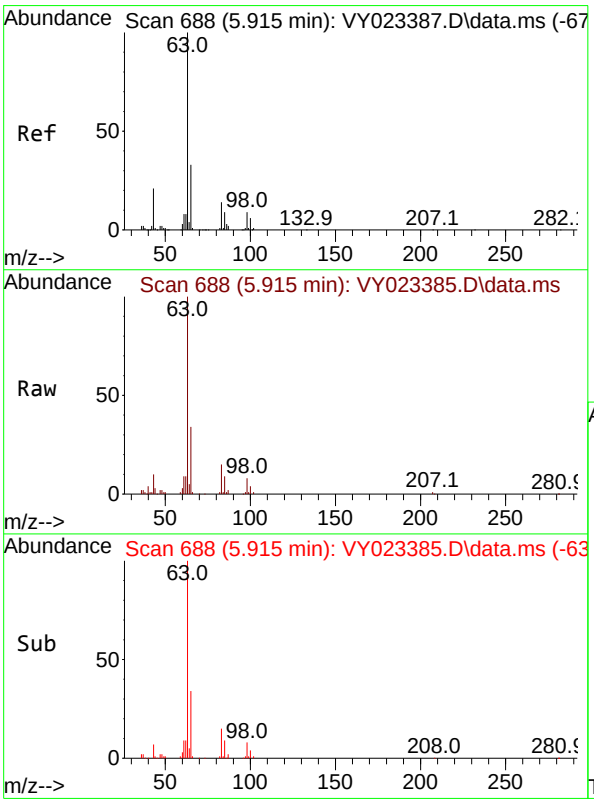
Ion	Ratio	Lower	Upper
43	100		
86	13.5	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

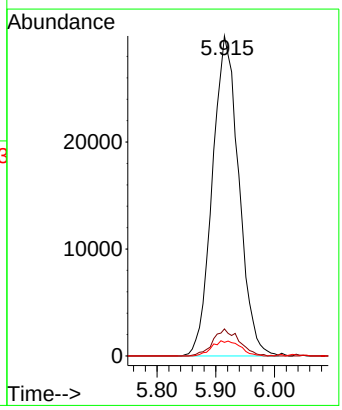
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

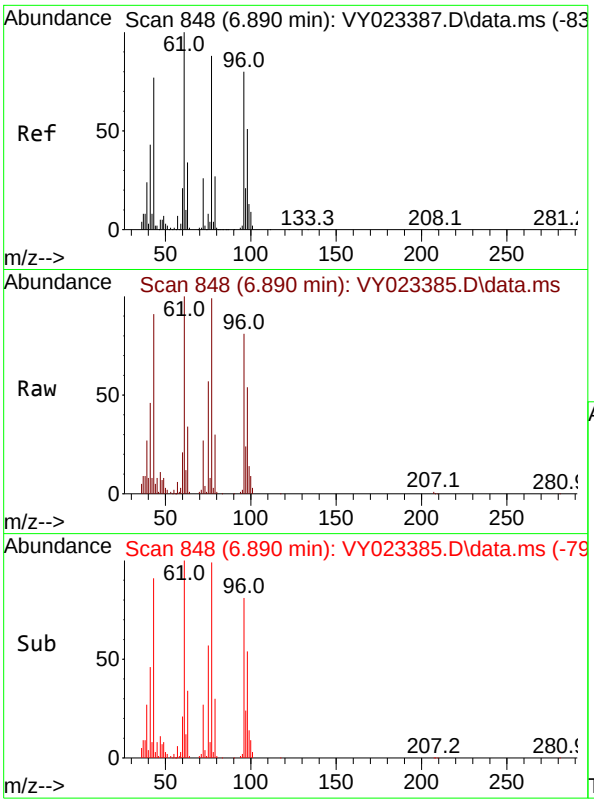


#24
1,1-Dichloroethane
Concen: 9.772 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

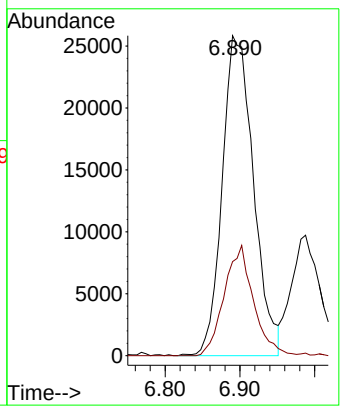
Tgt Ion: 43 Resp: 7517

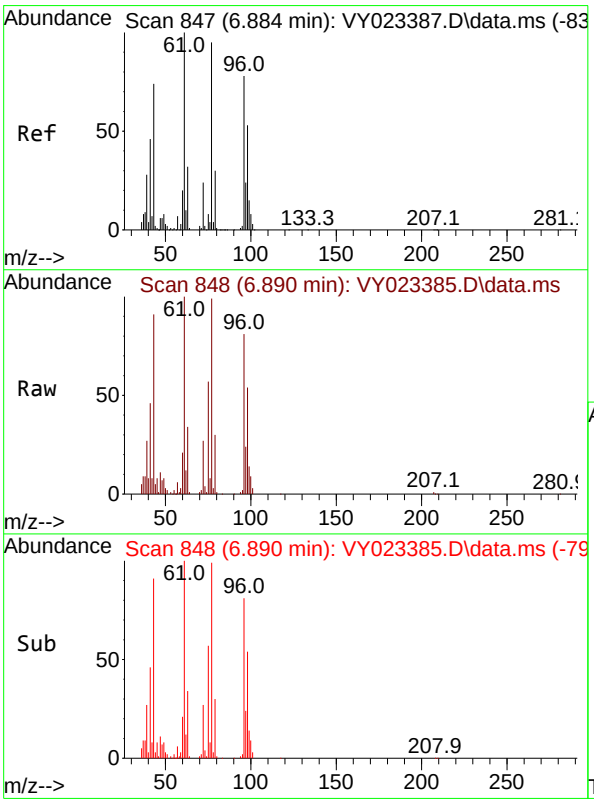
Ion	Ratio	Lower	Upper
43	100		
72	29.4	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

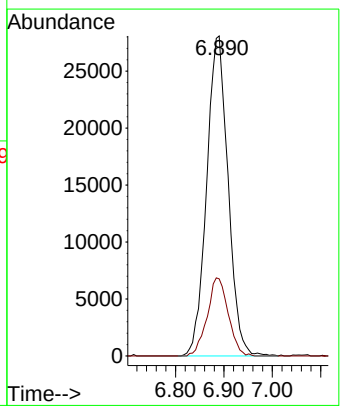


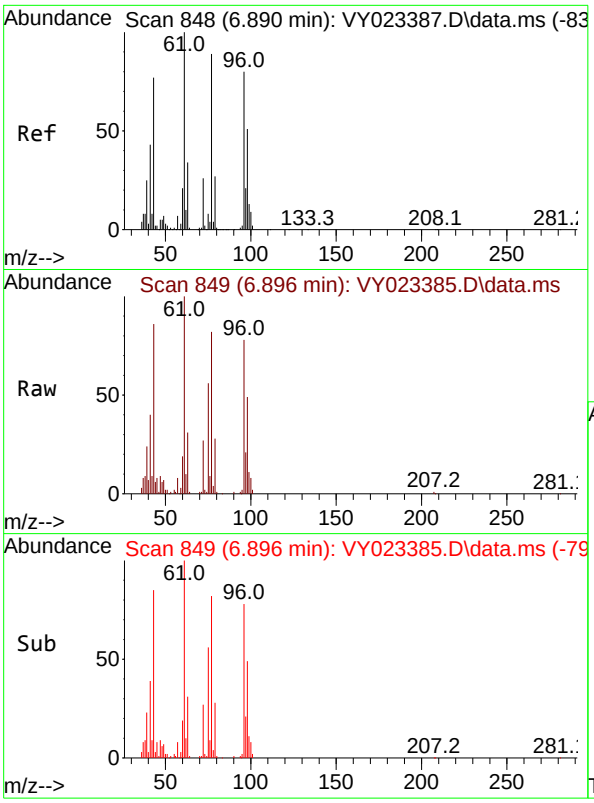


#26
2,2-Dichloropropane
Concen: 10.153 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

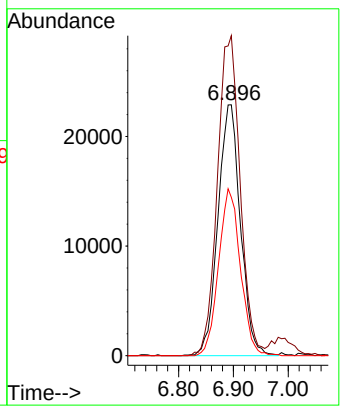
Tgt Ion: 96 Resp: 6533

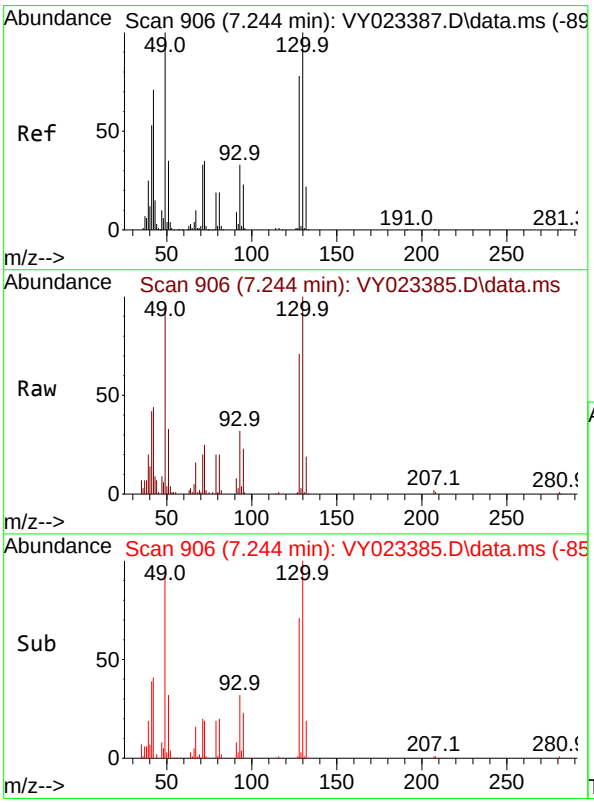
Ion	Ratio	Lower	Upper
96	100		
61	129.1	0.0	258.2
98	64.5	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

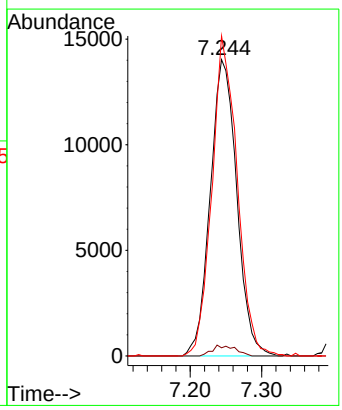


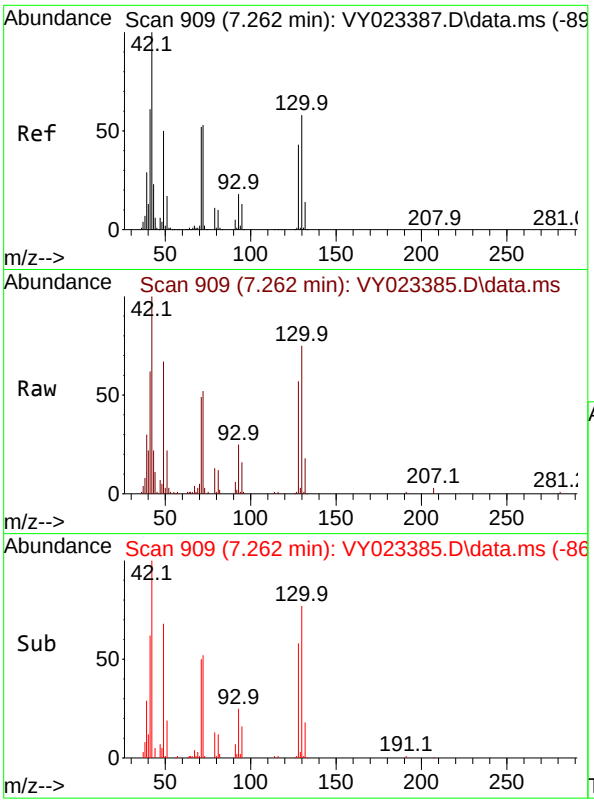


#28
Bromochloromethane
Concen: 9.733 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

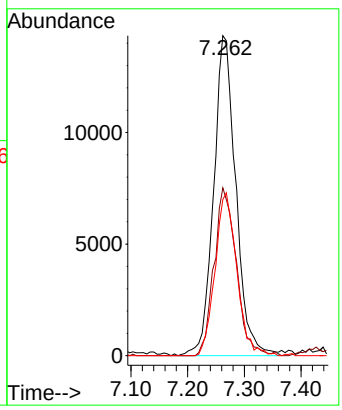




#29
Tetrahydrofuran
Concen: 48.749 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 42 Resp: 3899(

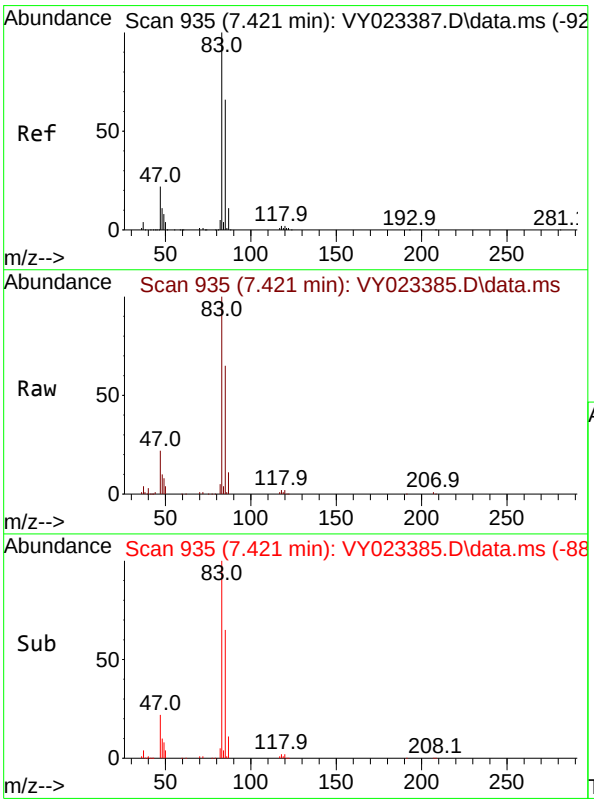
Ion	Ratio	Lower	Upper
42	100		
72	52.6	43.0	64.6
71	49.8	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

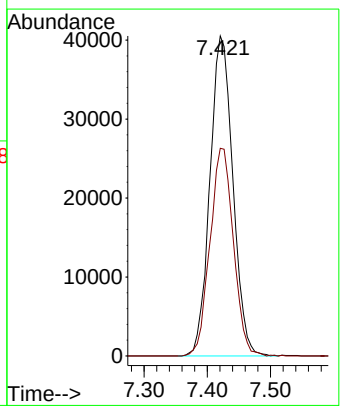
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

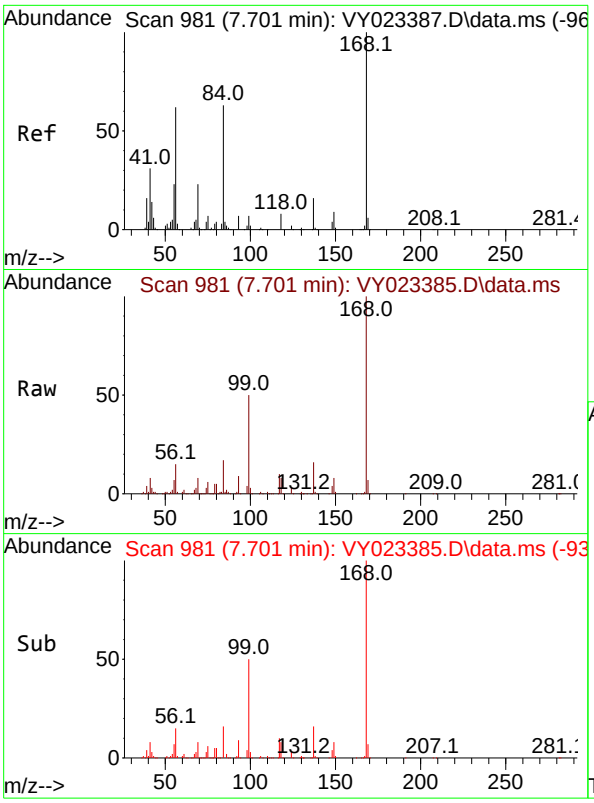


#30
Chloroform
Concen: 9.890 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 83 Resp: 102058

Ion	Ratio	Lower	Upper
83	100		
85	64.9	52.5	78.7

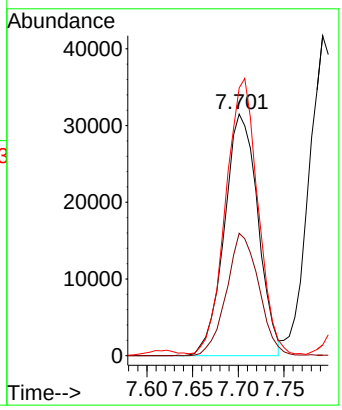




#31
Cyclohexane
Concen: 9.495 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 56 Resp: 8024

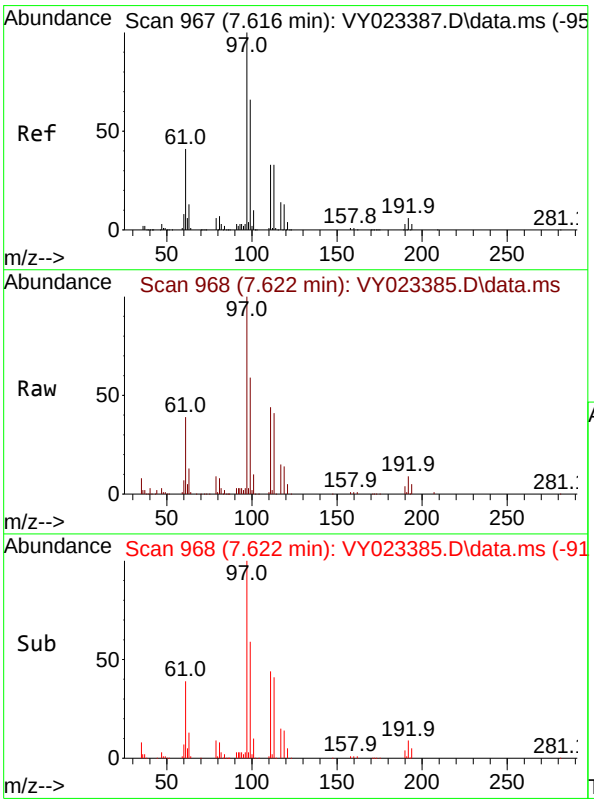
Ion	Ratio	Lower	Upper
56	100		
69	50.5	30.0	45.0
84	109.7	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

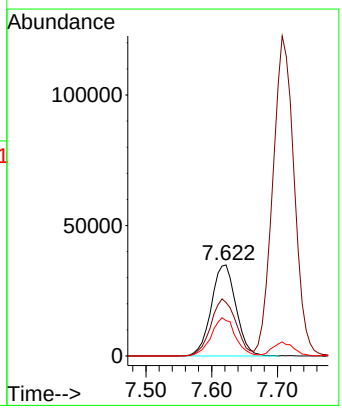
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

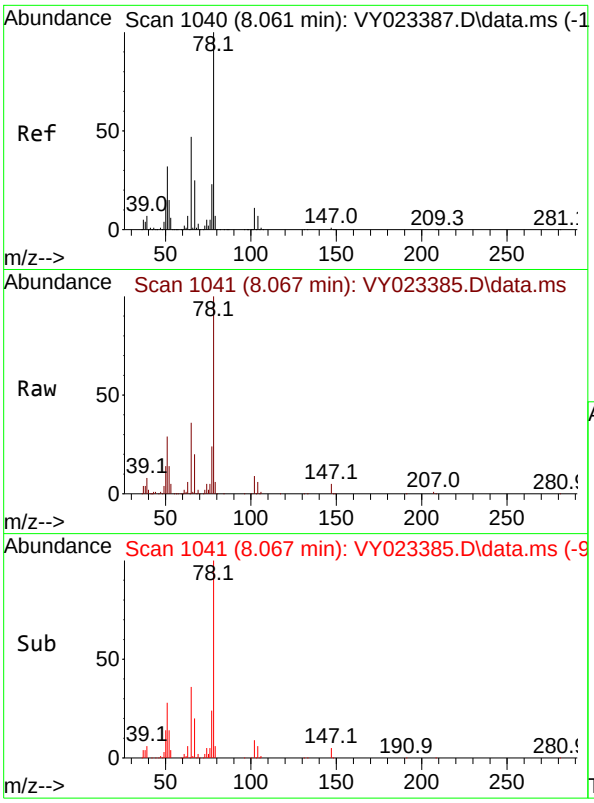


#32
1,1,1-Trichloroethane
Concen: 9.844 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

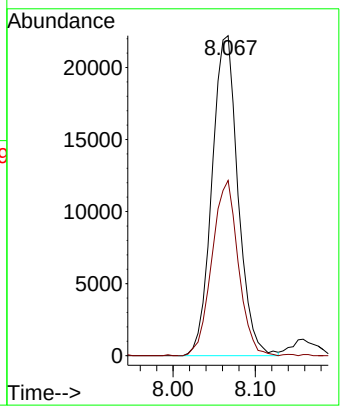




#33
1,2-Dichloroethane-d4
Concen: 10.071 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 65 Resp: 4882

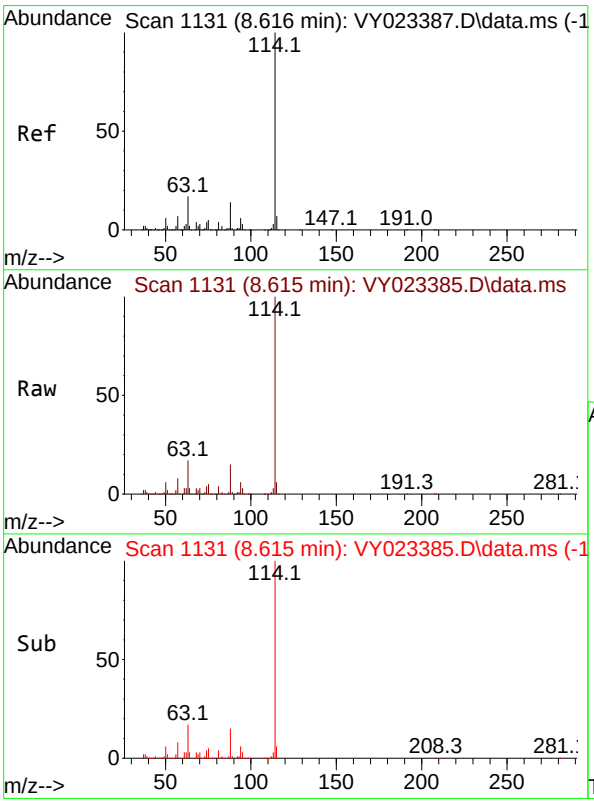
Ion	Ratio	Lower	Upper
65	100		
67	55.4	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

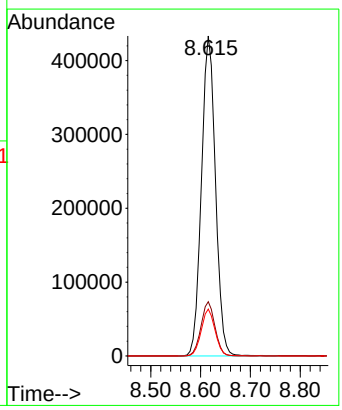
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

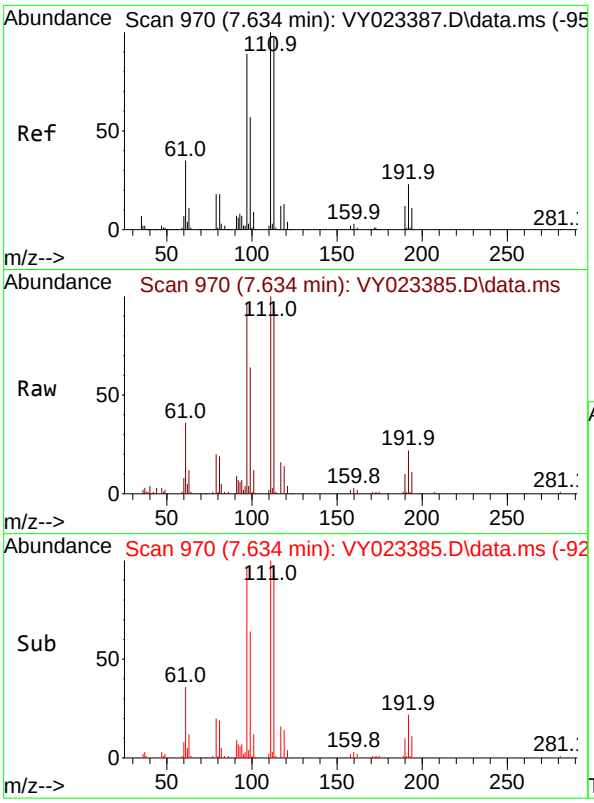


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

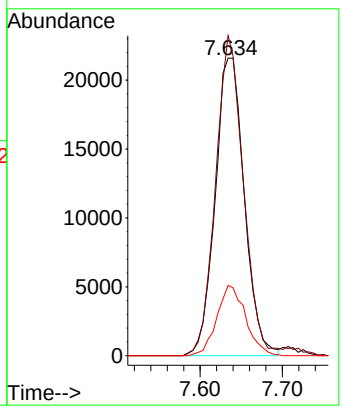




#35
Dibromofluoromethane
Concen: 10.364 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:113 Resp: 5327

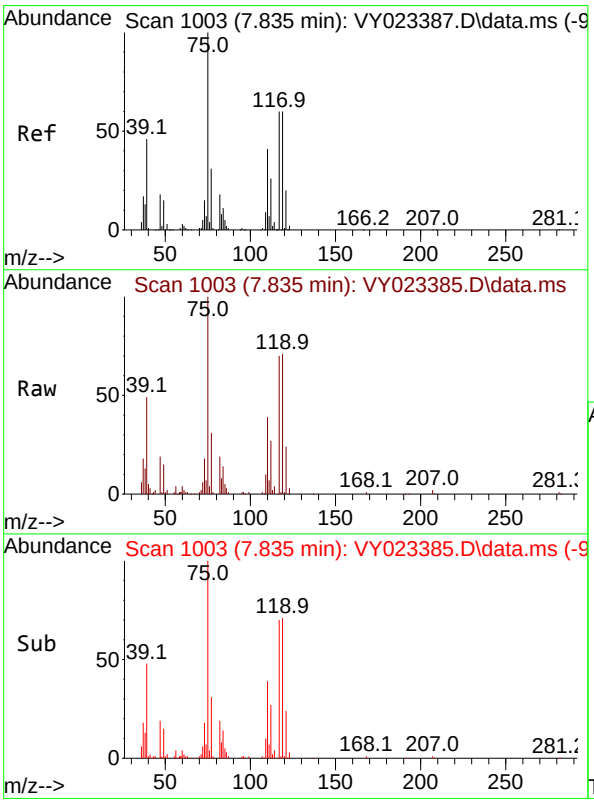
Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.8	122.6
192	23.3	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

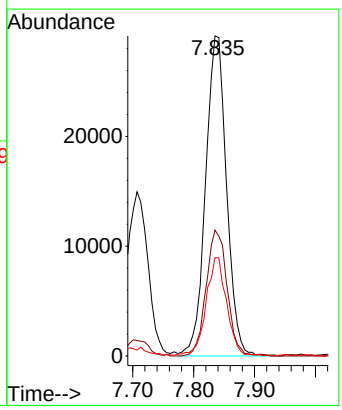
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

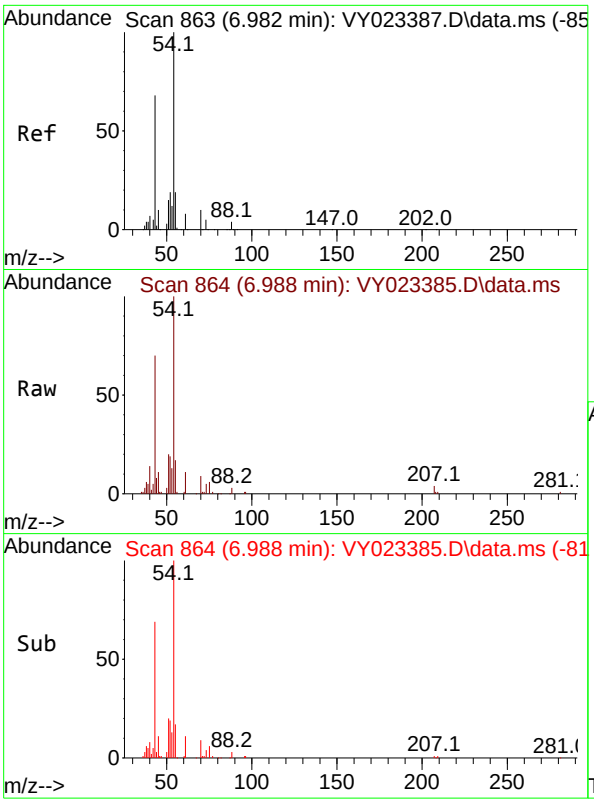


#36
1,1-Dichloropropene
Concen: 9.639 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

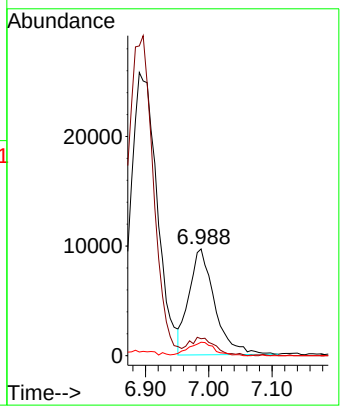




#37
Ethyl Acetate
Concen: 9.551 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 2738

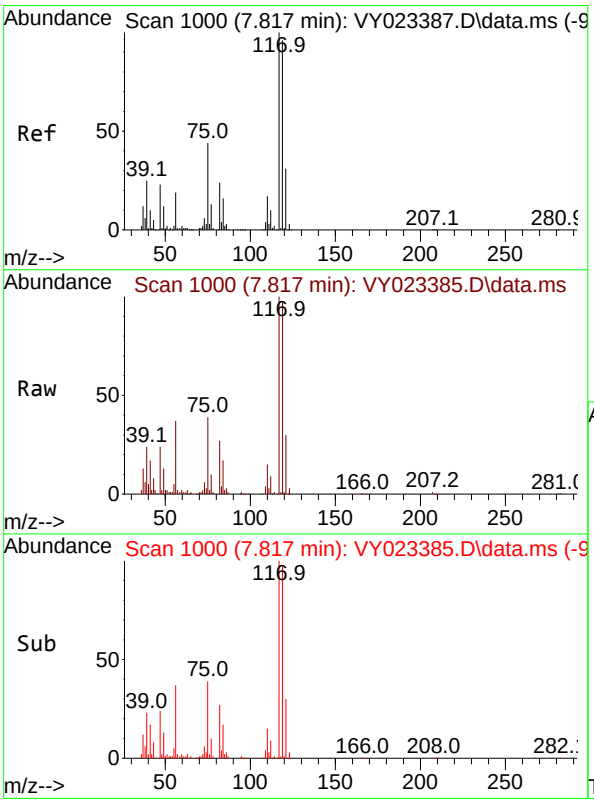
Ion	Ratio	Lower	Upper
43	100		
61	17.3	11.8	17.8
70	12.8	10.5	15.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

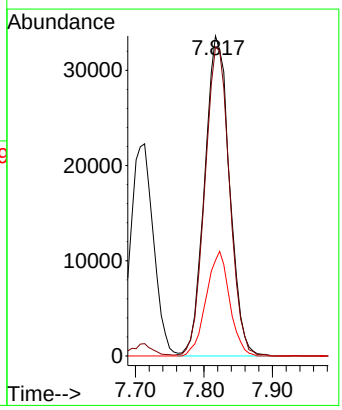
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

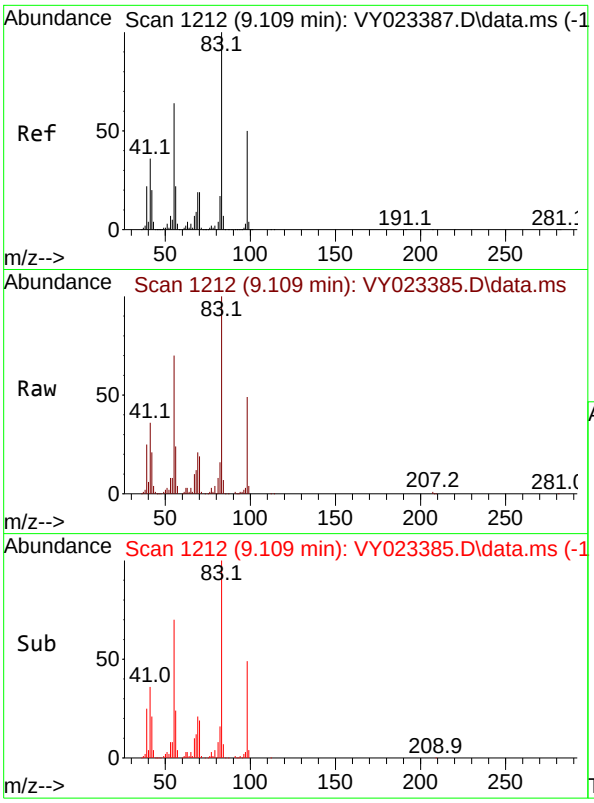


#38
Carbon Tetrachloride
Concen: 10.065 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

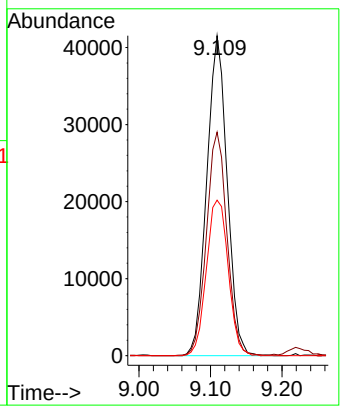




#39
Methylcyclohexane
Concen: 8.860 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 83 Resp: 8227

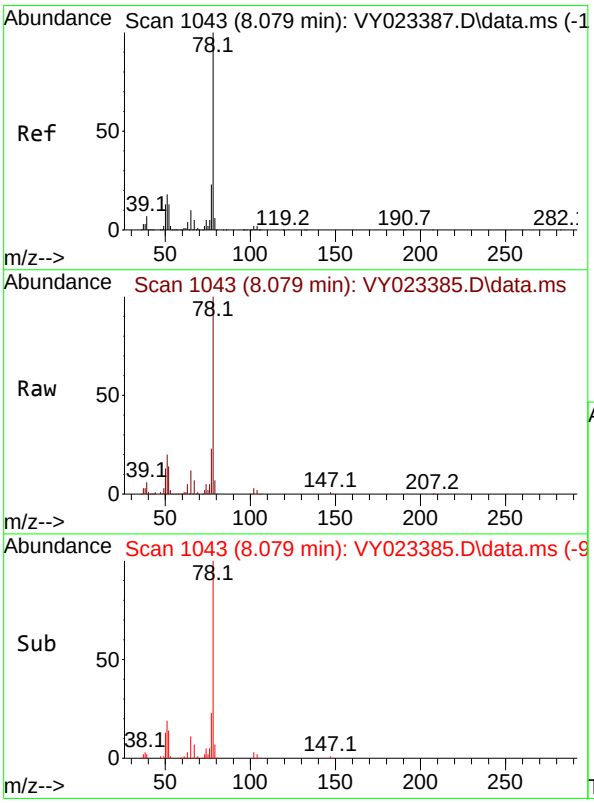
Ion	Ratio	Lower	Upper
83	100		
55	69.7	51.4	77.2
98	48.6	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

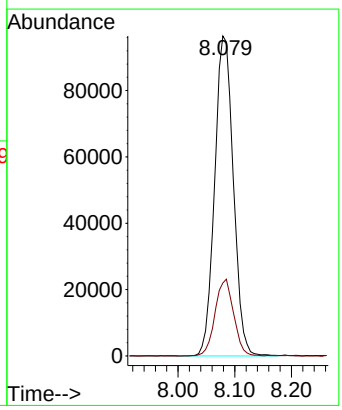
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

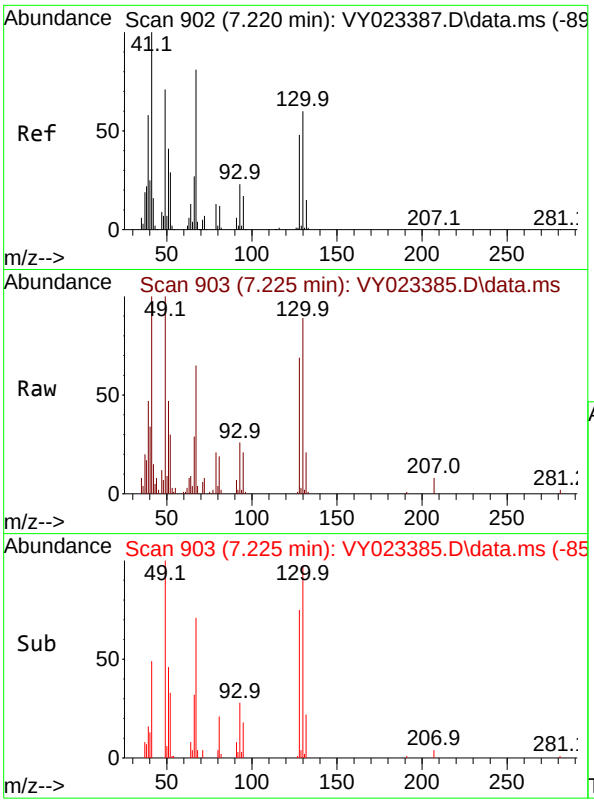


#40
Benzene
Concen: 9.758 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 78 Resp: 220629

Ion	Ratio	Lower	Upper
78	100		
77	22.8	18.3	27.5

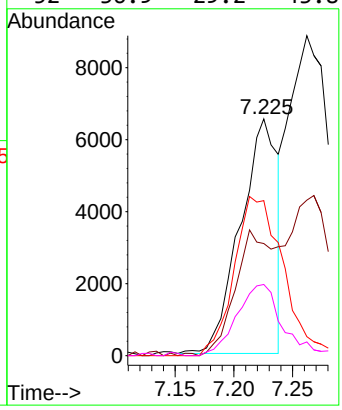




#41
Methacrylonitrile
Concen: 9.632 ug/l
RT: 7.225 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 41 Resp: 1434

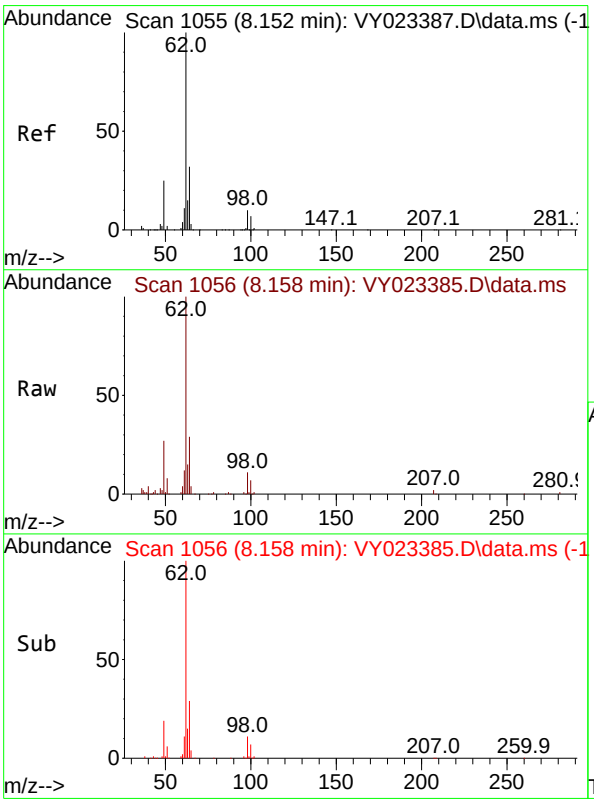
Ion	Ratio	Lower	Upper
41	100		
39	49.9	52.2	78.4
67	90.2	74.9	112.3
52	36.9	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

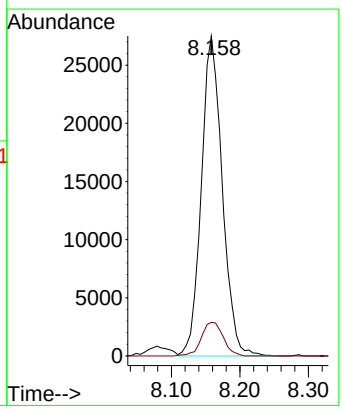
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

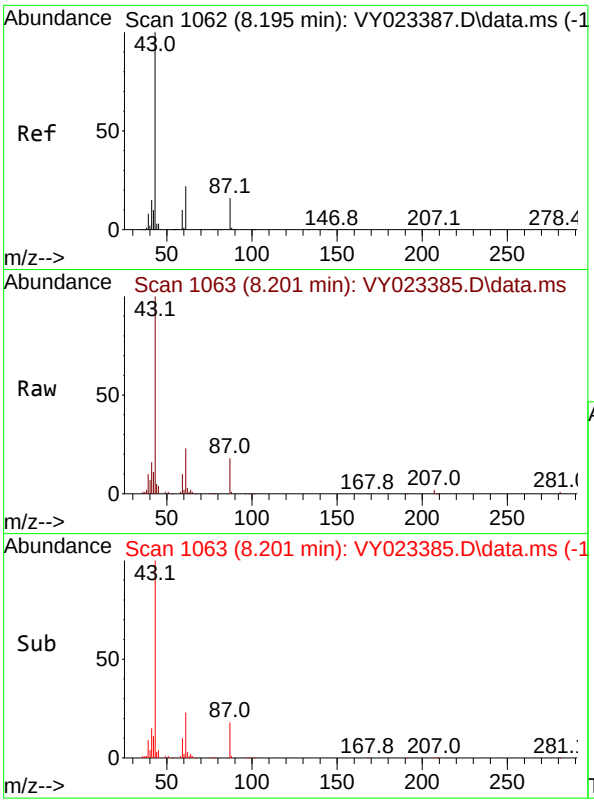


#42
1,2-Dichloroethane
Concen: 10.174 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 62 Resp: 58541

Ion	Ratio	Lower	Upper
62	100		
98	11.0	0.0	21.6

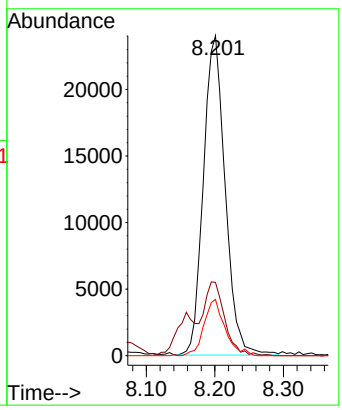




#43
Isopropyl Acetate
Concen: 9.510 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 5304

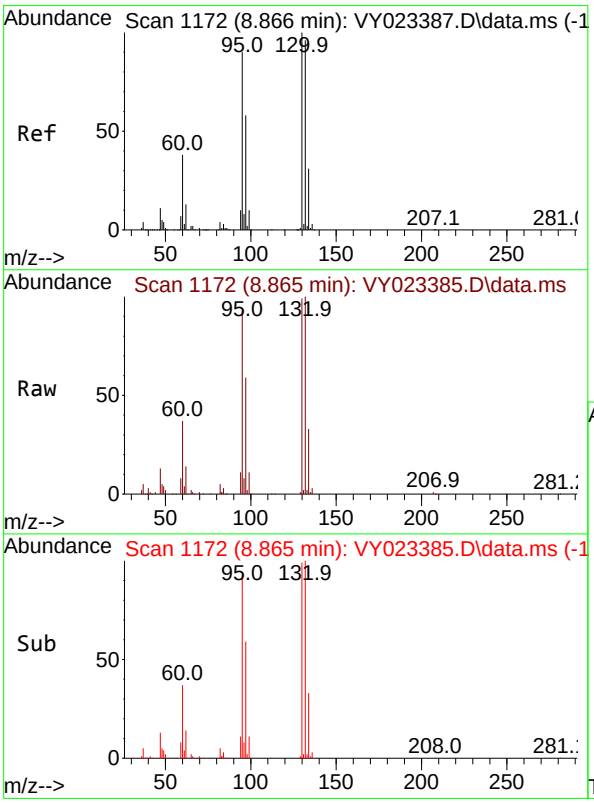
Ion	Ratio	Lower	Upper
43	100		
61	21.4	18.1	27.1
87	17.0	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

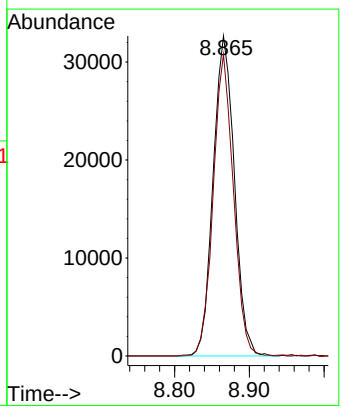
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

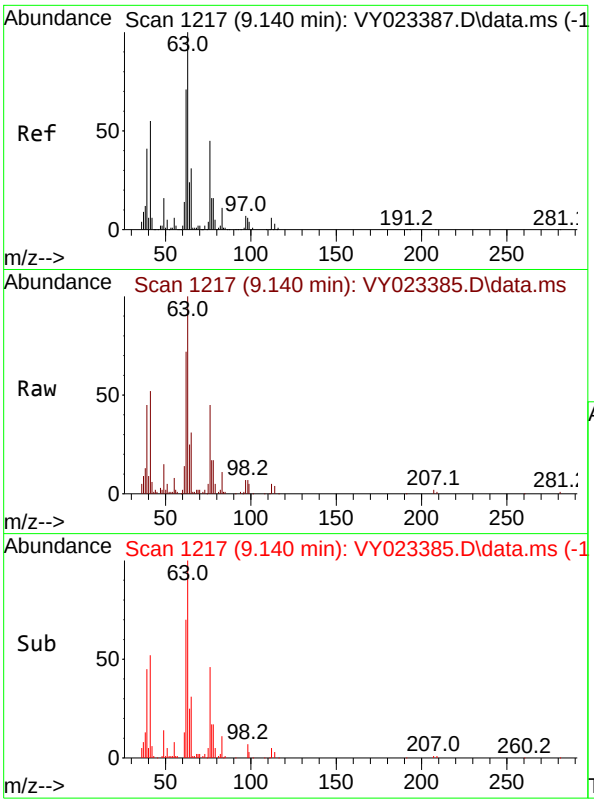


#44
Trichloroethene
Concen: 10.171 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:130 Resp: 64537

Ion	Ratio	Lower	Upper
130	100		
95	94.2	0.0	180.6

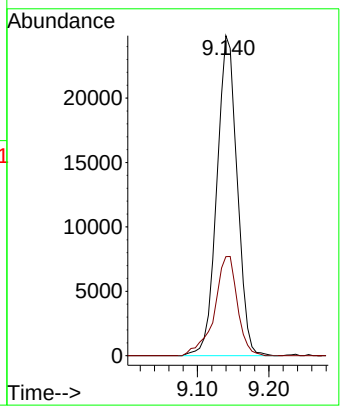




#45
1,2-Dichloropropane
Concen: 9.632 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 63 Resp: 4900

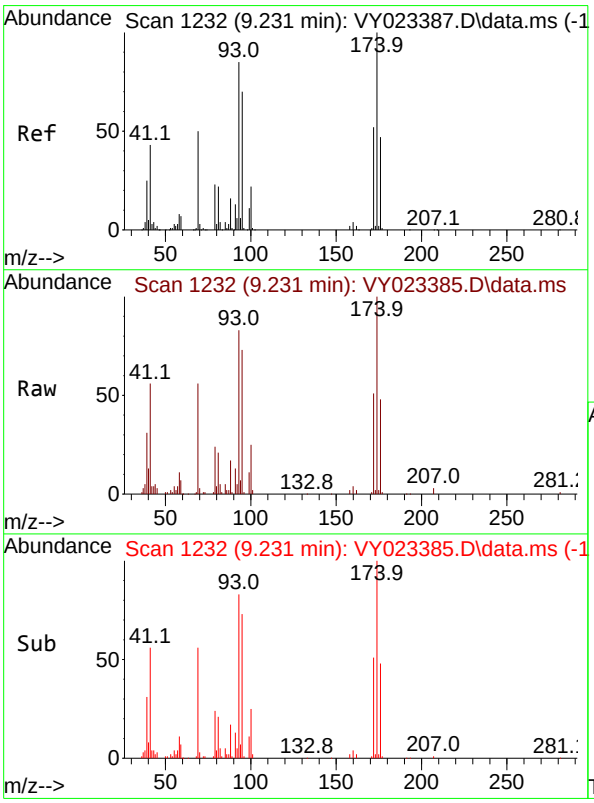
Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

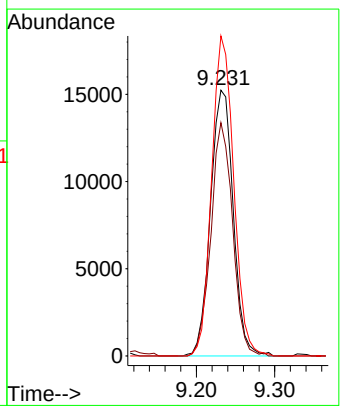
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

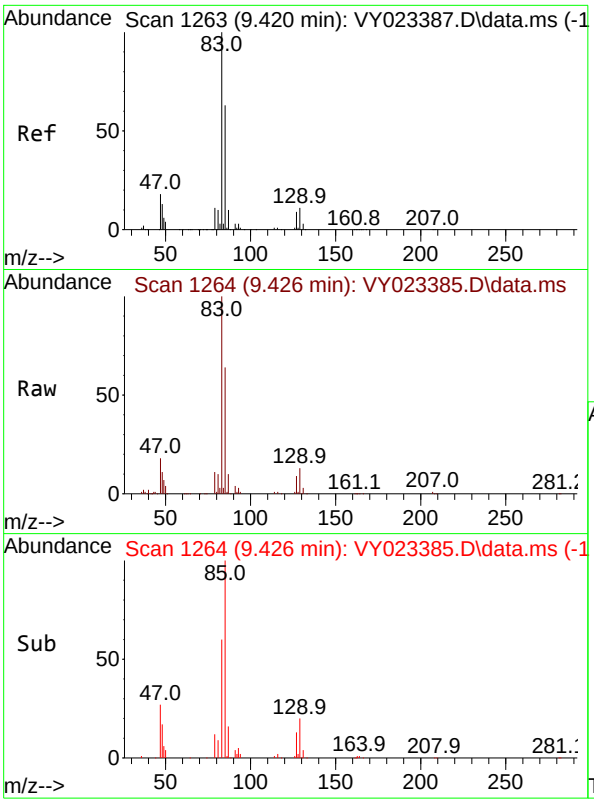


#46
Dibromomethane
Concen: 9.890 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

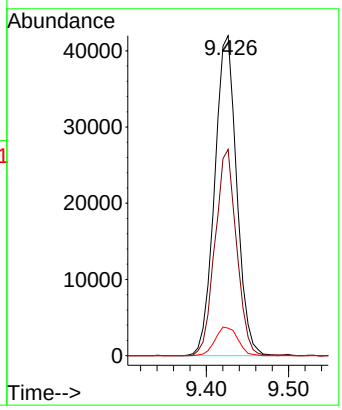




#47
Bromodichloromethane
Concen: 10.007 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 83 Resp: 7839

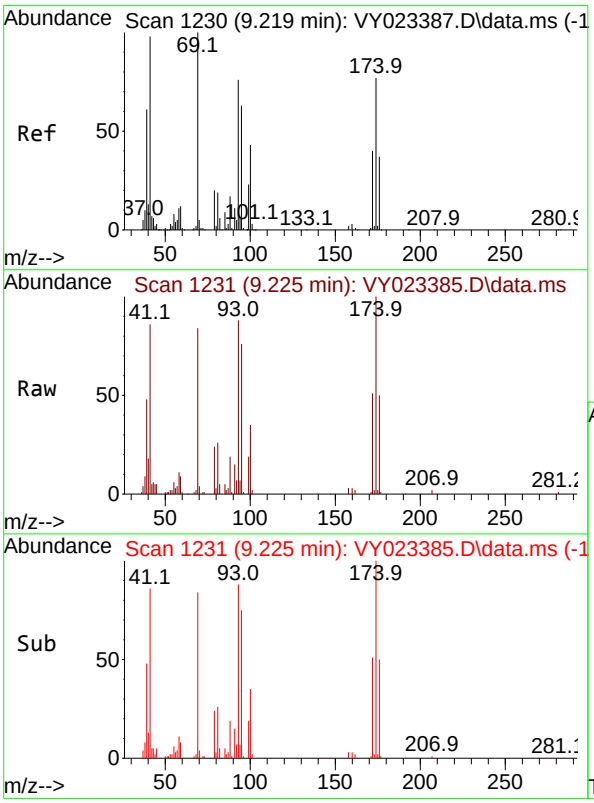
Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.8	76.2
127	8.6	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

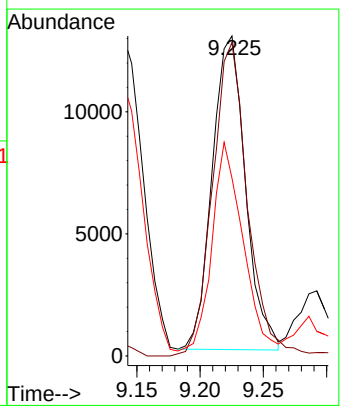
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

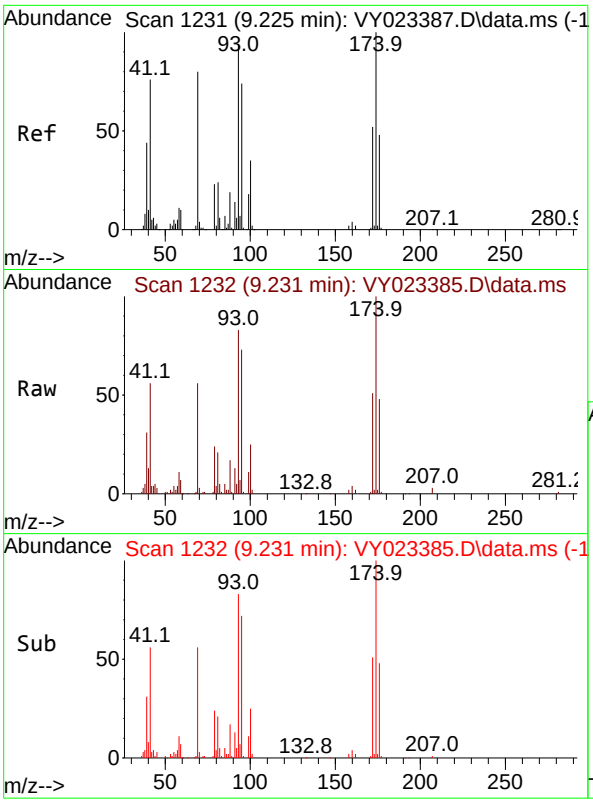


#48
Methyl methacrylate
Concen: 9.023 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

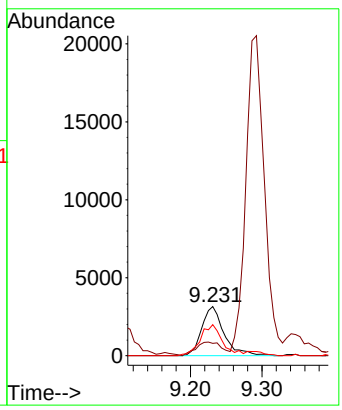
Tgt Ion: 88 Resp: 682

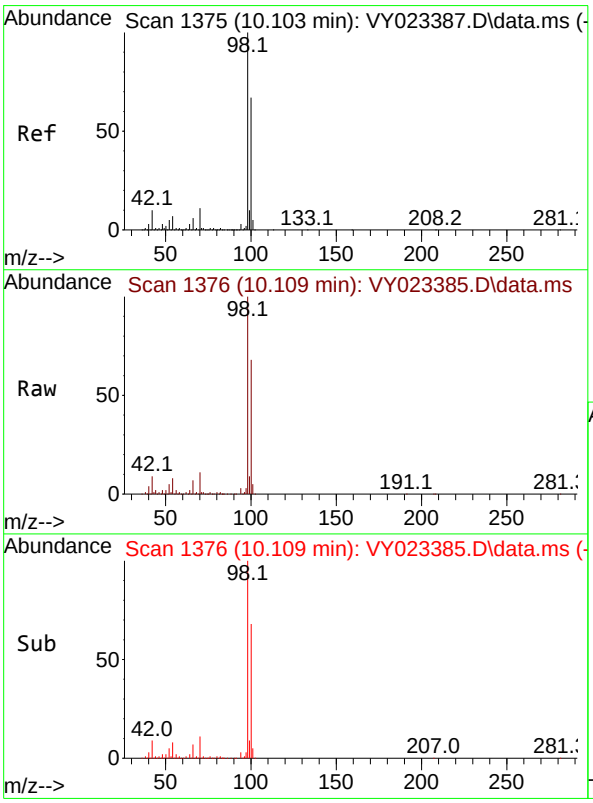
Ion	Ratio	Lower	Upper
88	100		
43	32.1	21.8	32.8
58	62.0	46.8	70.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

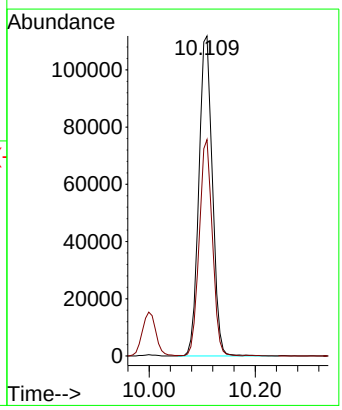


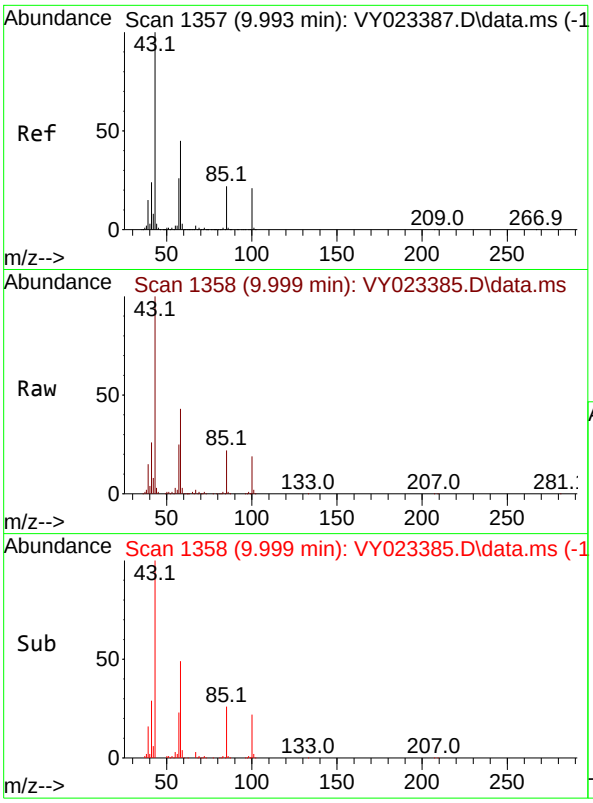


#50
Toluene-d8
Concen: 10.225 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 98 Resp: 198242

Ion	Ratio	Lower	Upper
98	100		
100	65.6	53.0	79.4

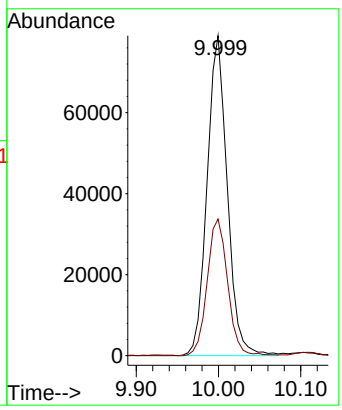




#51
4-Methyl-2-Pentanone
Concen: 47.165 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 13474

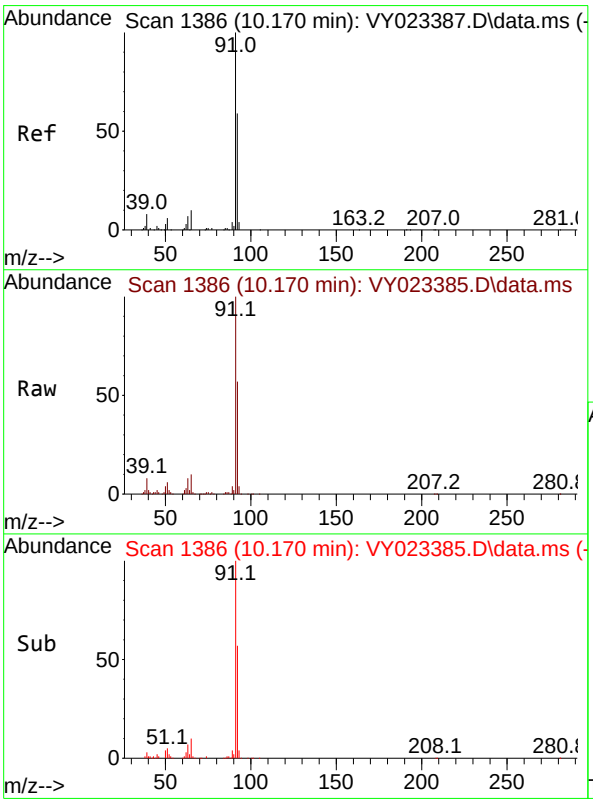
Ion	Ratio	Lower	Upper
43	100		
58	43.5	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

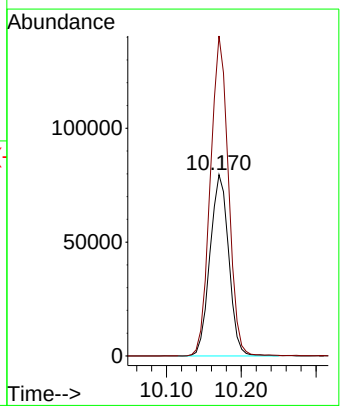
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

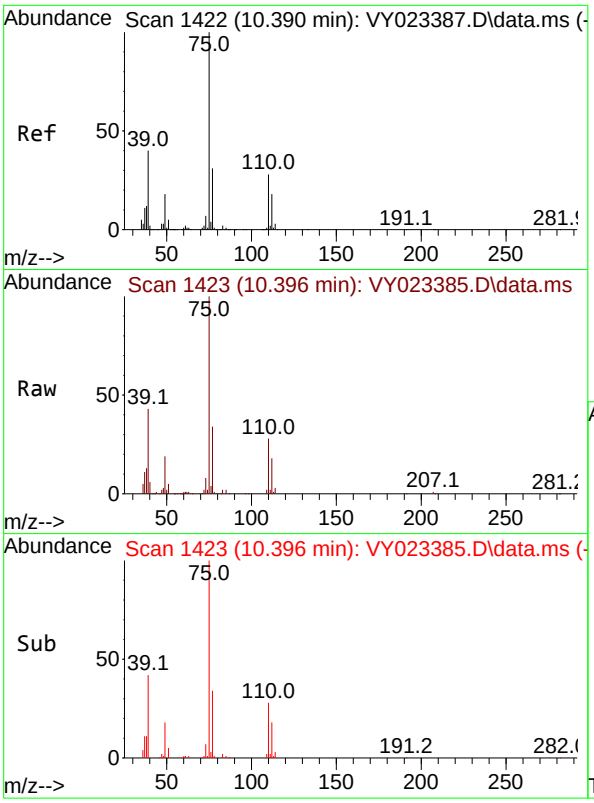


#52
Toluene
Concen: 9.661 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 92 Resp: 138662

Ion	Ratio	Lower	Upper
92	100		
91	170.6	136.4	204.6

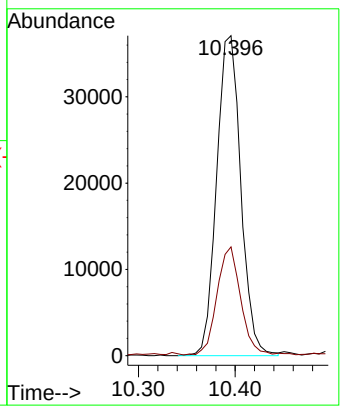




#53
t-1,3-Dichloropropene
Concen: 9.559 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 6431

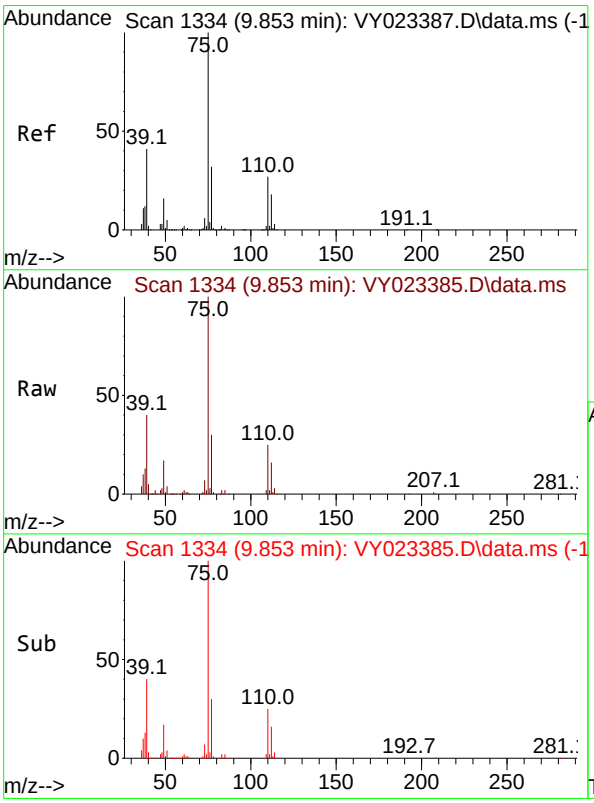
Ion	Ratio	Lower	Upper
75	100		
77	33.4	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

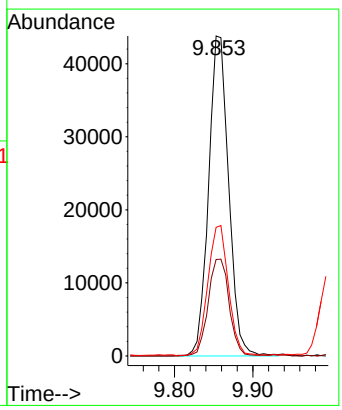
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

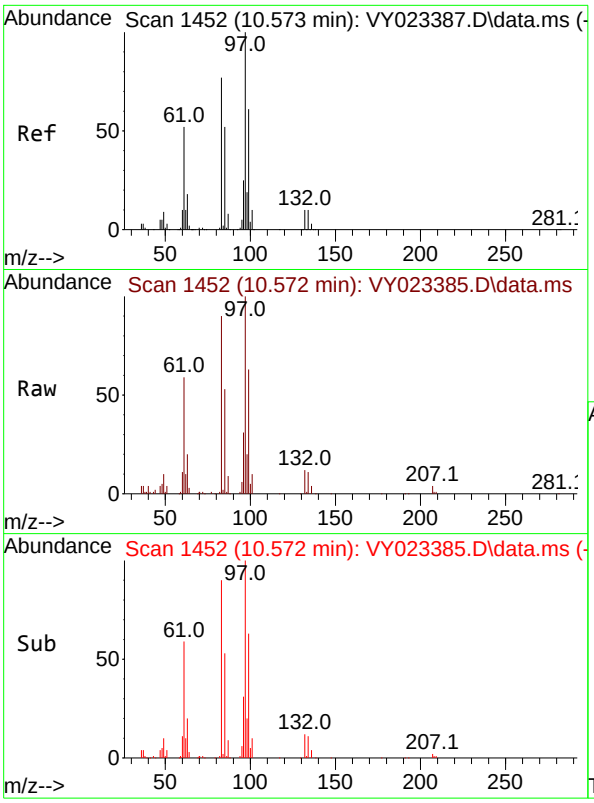


#54
cis-1,3-Dichloropropene
Concen: 9.687 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

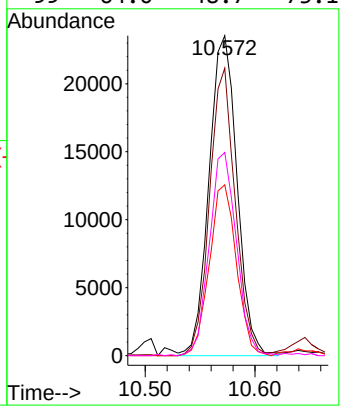




#55
1,1,2-Trichloroethane
Concen: 10.118 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 97 Resp: 4188

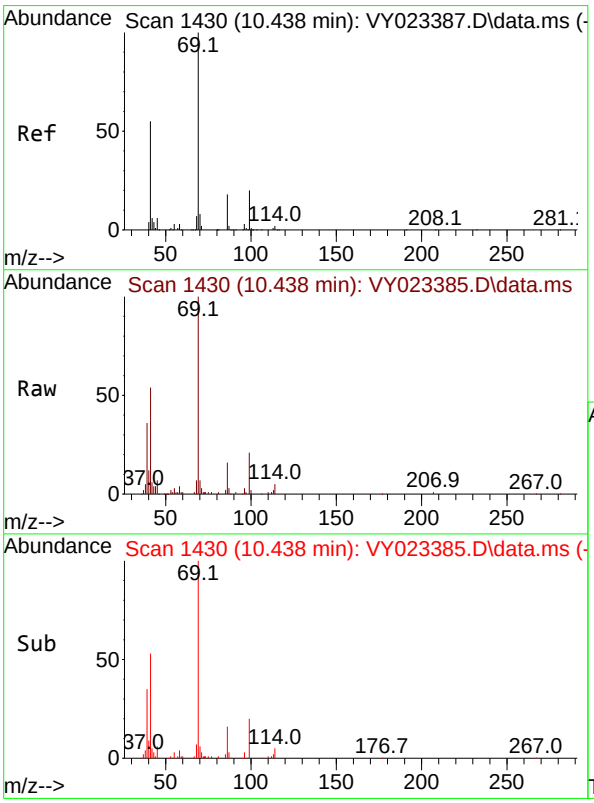
Ion	Ratio	Lower	Upper
97	100		
83	90.6	61.8	92.6
85	53.8	41.3	61.9
99	64.0	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

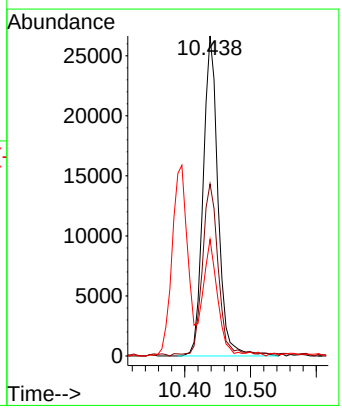
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

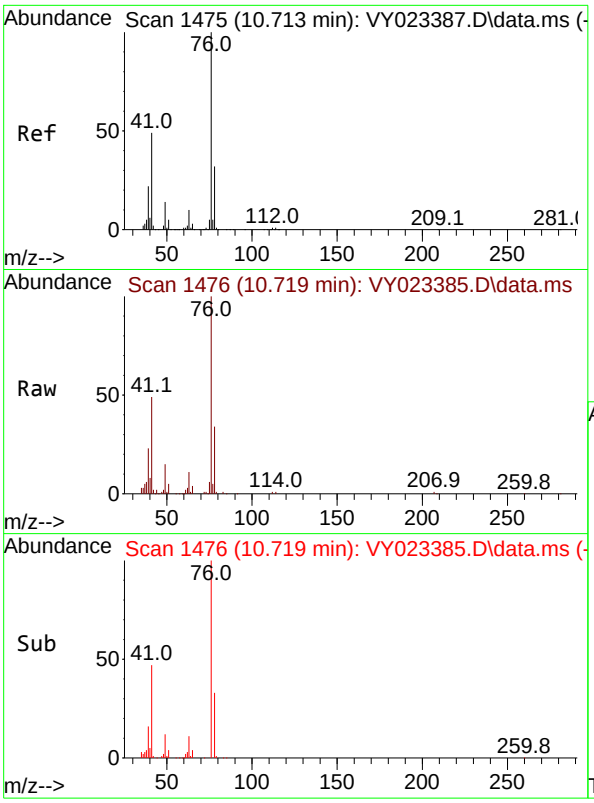


#56
Ethyl methacrylate
Concen: 8.830 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

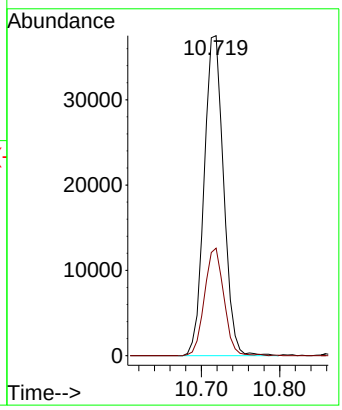




#57
1,3-Dichloropropane
Concen: 9.633 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 76 Resp: 6453

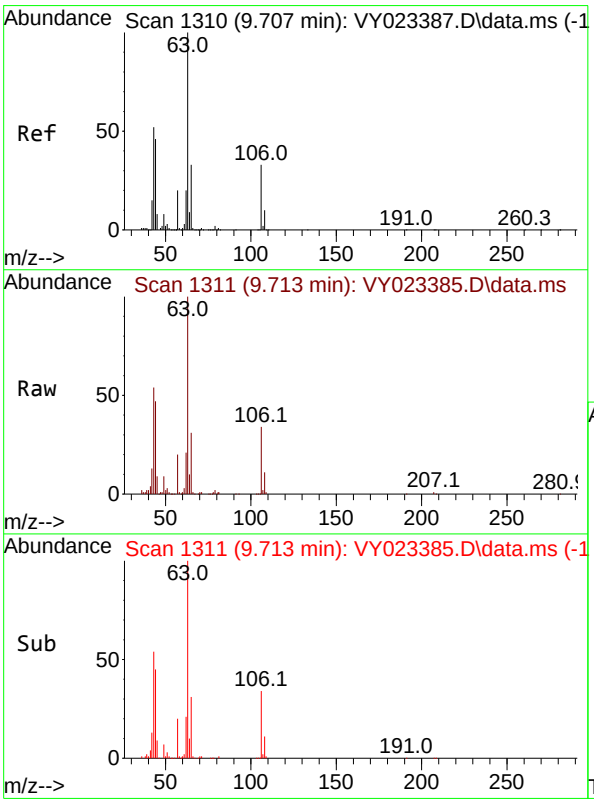
Ion	Ratio	Lower	Upper
76	100		
78	33.6	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

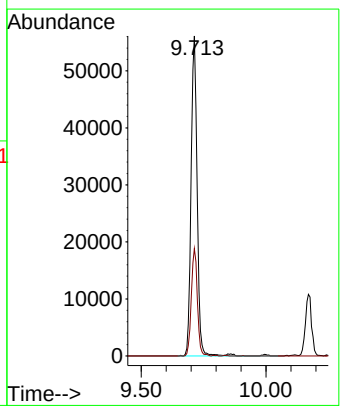
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

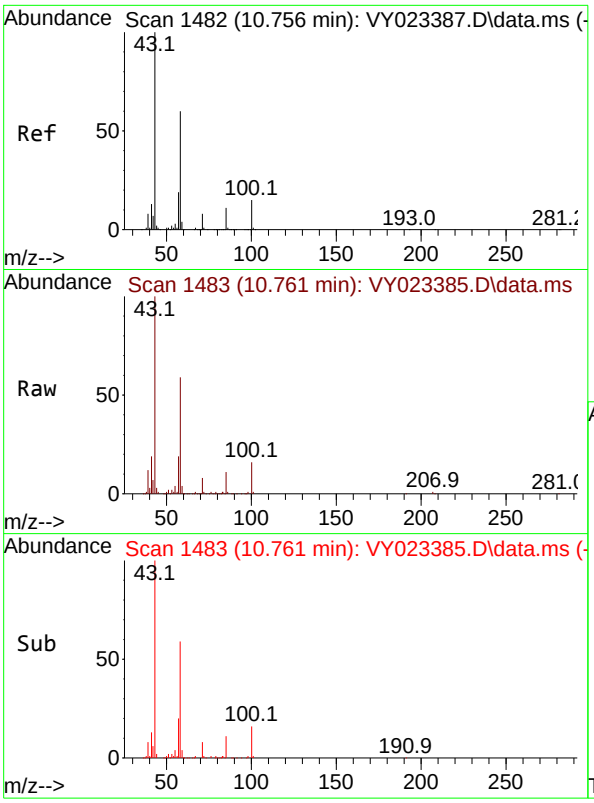


#58
2-Chloroethyl Vinyl ether
Concen: 45.535 ug/l m
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 63 Resp: 94970

Ion	Ratio	Lower	Upper
63	100		
106	33.4	26.6	39.8

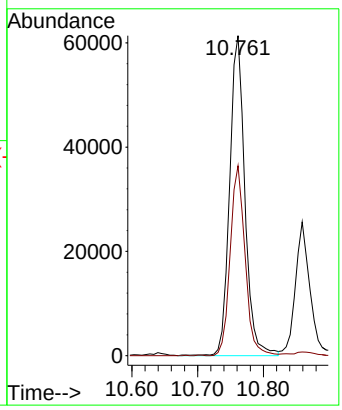




#59
2-Hexanone
Concen: 50.138 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 43 Resp: 9917

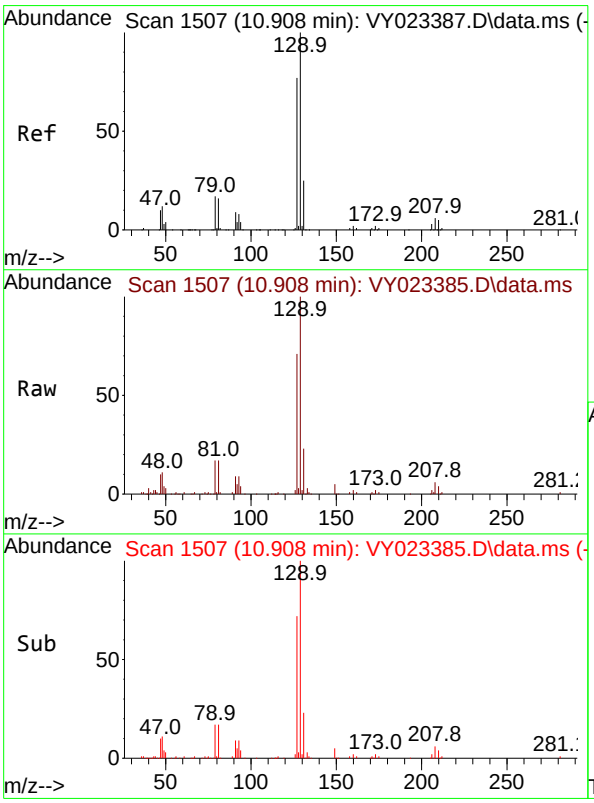
Ion	Ratio	Lower	Upper
43	100		
58	58.0	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

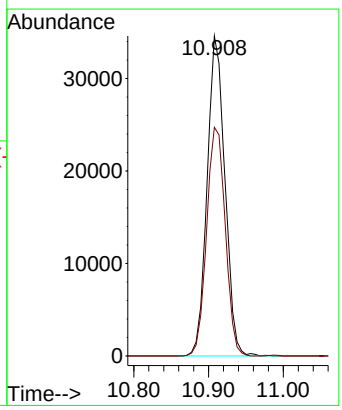
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

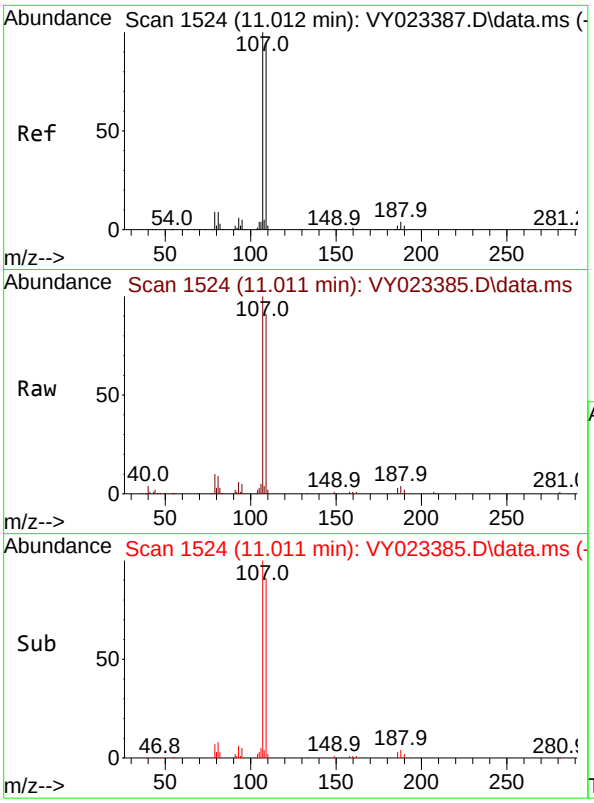


#60
Dibromochloromethane
Concen: 10.123 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:129 Resp: 57151

Ion	Ratio	Lower	Upper
129	100		
127	74.9	38.6	115.7

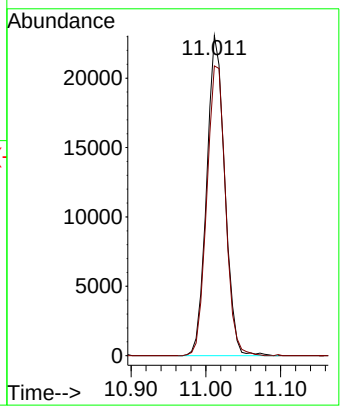




#61
1,2-Dibromoethane
Concen: 9.979 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:107 Resp: 3886

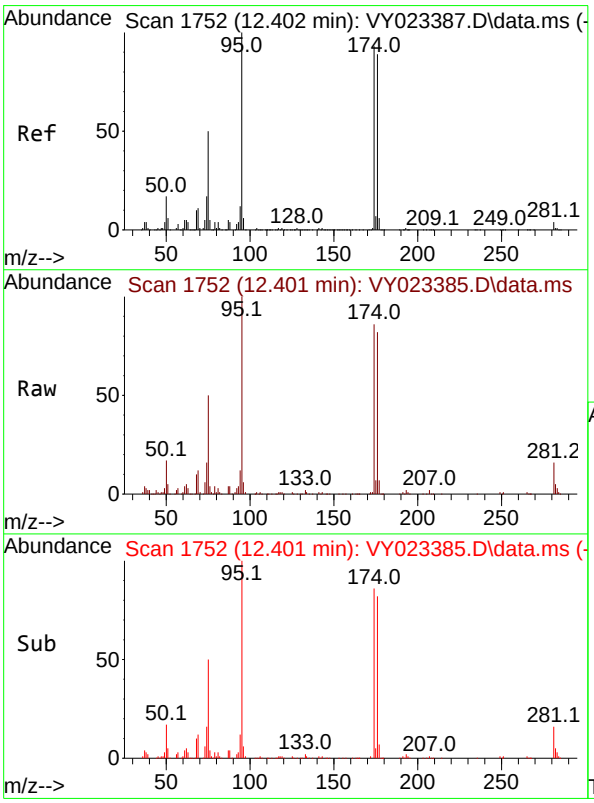
Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

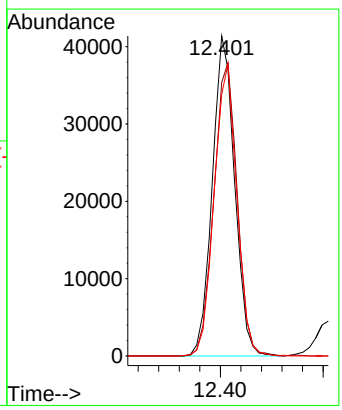
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

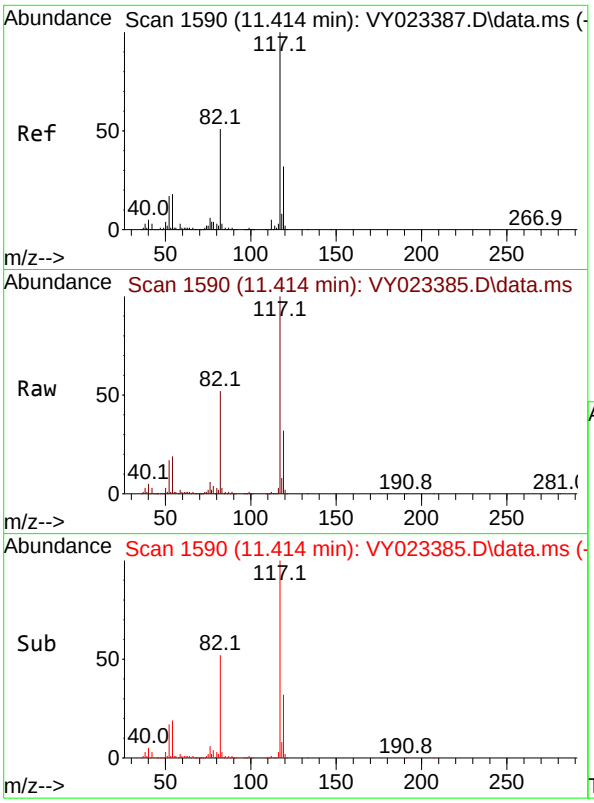


#62
4-Bromofluorobenzene
Concen: 10.235 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

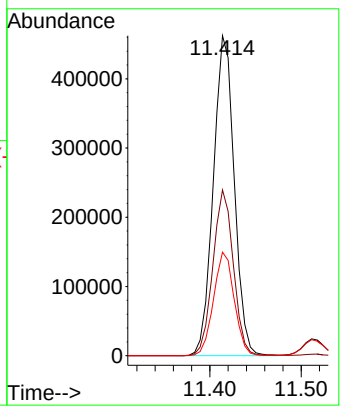




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:117 Resp: 73615

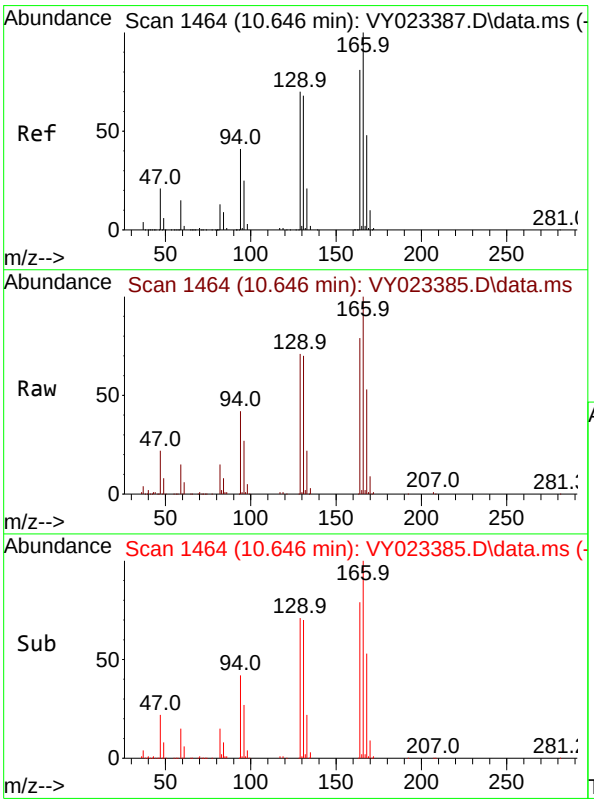
Ion	Ratio	Lower	Upper
117	100		
82	51.8	41.0	61.4
119	32.3	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations APPROVED

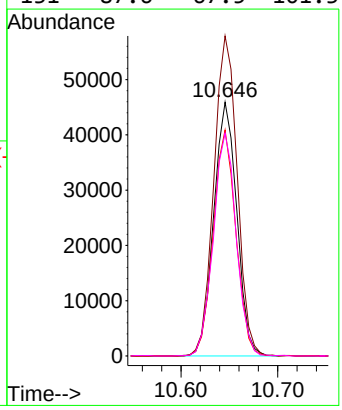
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

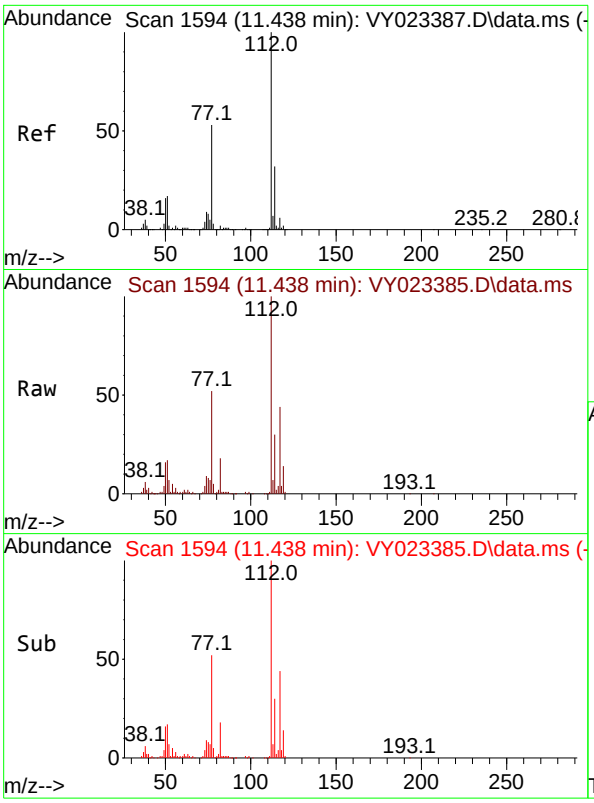


#64
Tetrachloroethene
Concen: 10.335 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

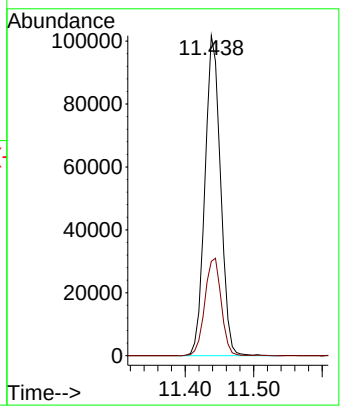




#65
Chlorobenzene
Concen: 10.074 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:112 Resp: 16115

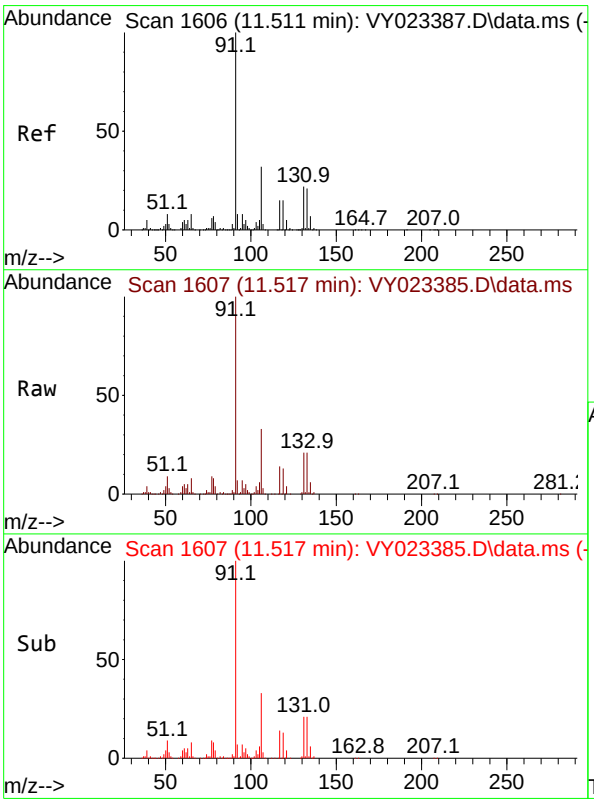
Ion	Ratio	Lower	Upper
112	100		
114	29.5	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

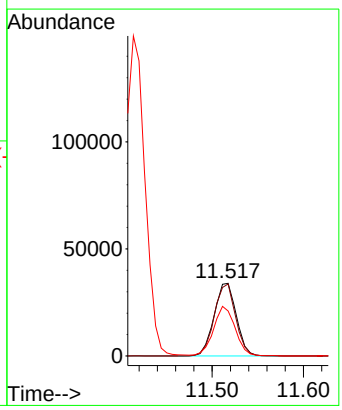
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

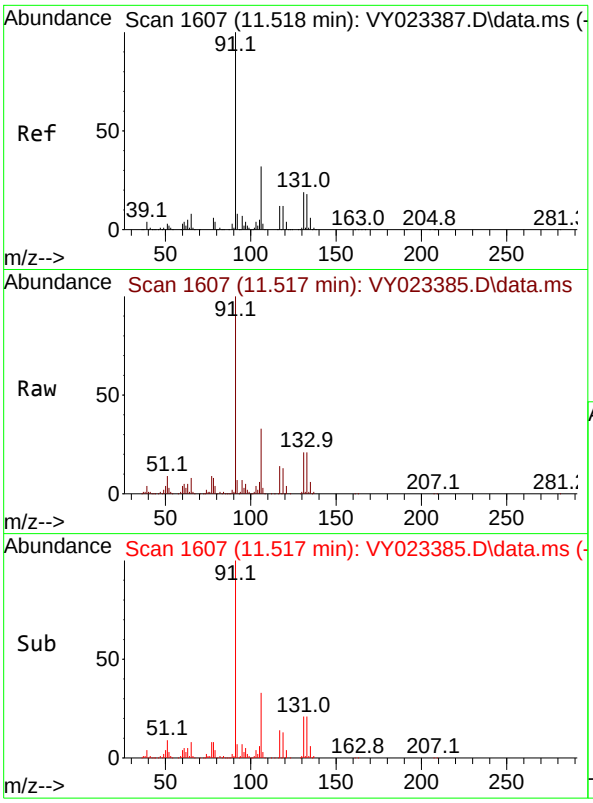


#66
1,1,1,2-Tetrachloroethane
Concen: 10.173 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

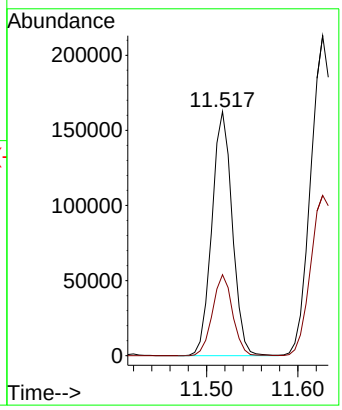




#67
Ethyl Benzene
Concen: 9.651 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 91 Resp: 25195

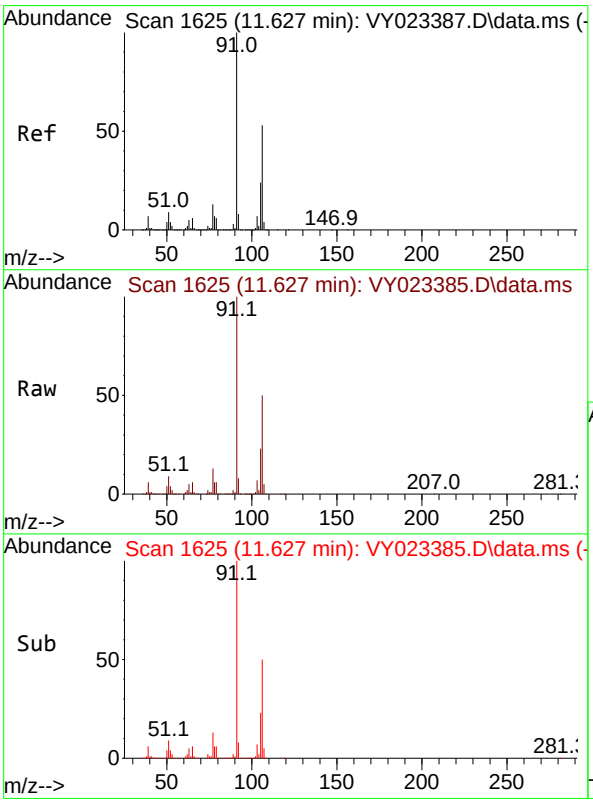
Ion	Ratio	Lower	Upper
91	100		
106	33.1	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

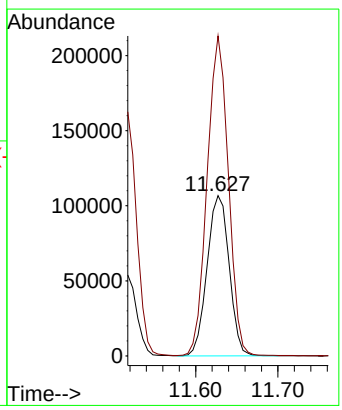
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

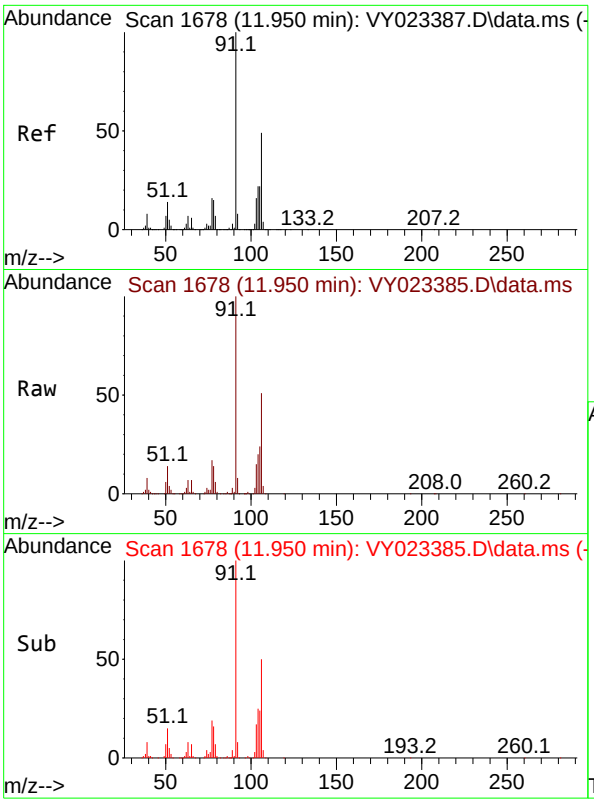


#68
m/p-Xylenes
Concen: 19.004 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:106 Resp: 198866

Ion	Ratio	Lower	Upper
106	100		
91	192.3	152.6	229.0

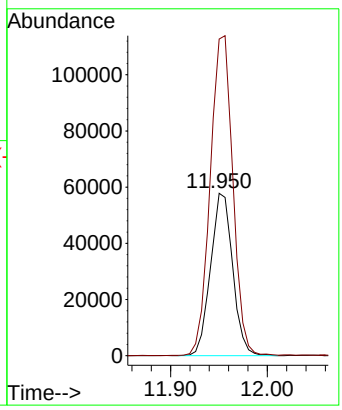




#69
o-Xylene
Concen: 9.467 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:106 Resp: 9171

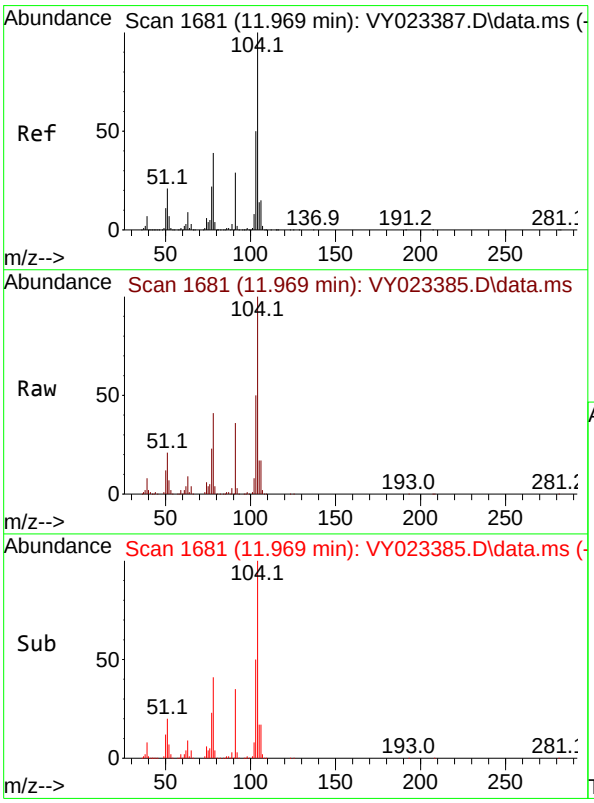
Ion	Ratio	Lower	Upper
106	100		
91	202.0	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

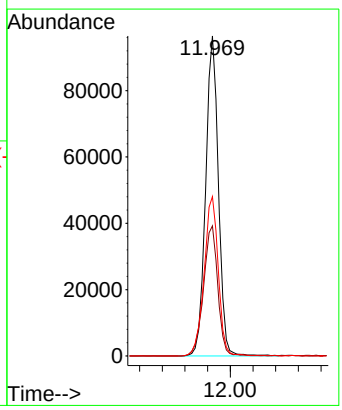
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

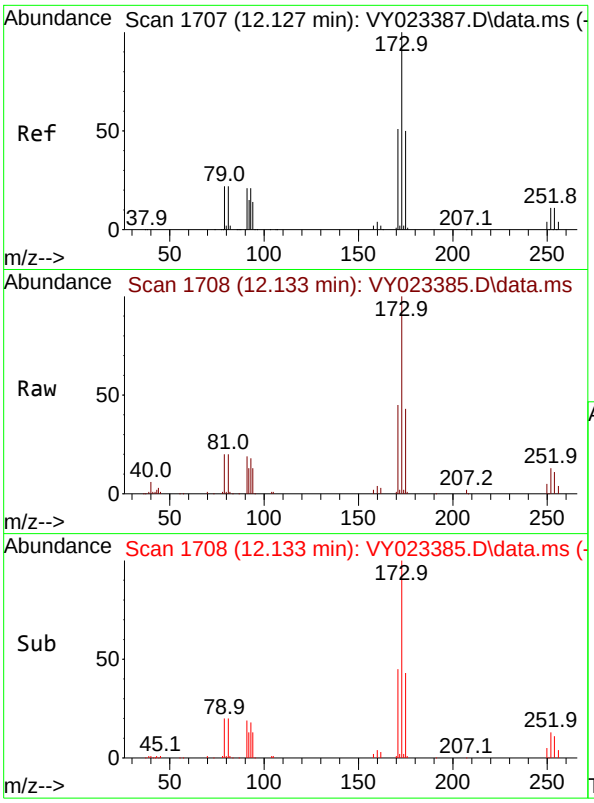


#70
Styrene
Concen: 9.446 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

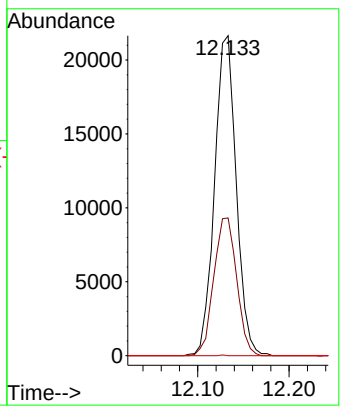




#71
Bromoform
Concen: 10.595 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:173 Resp: 3568

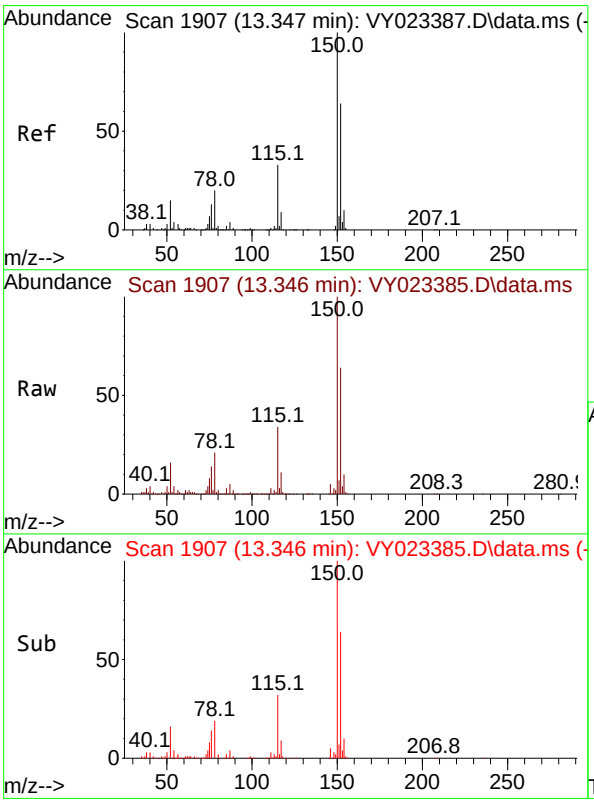
Ion	Ratio	Lower	Upper
173	100		
175	45.5	24.8	74.3
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

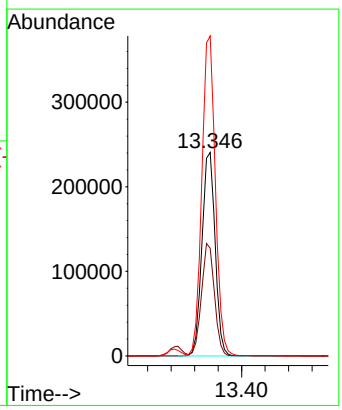
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

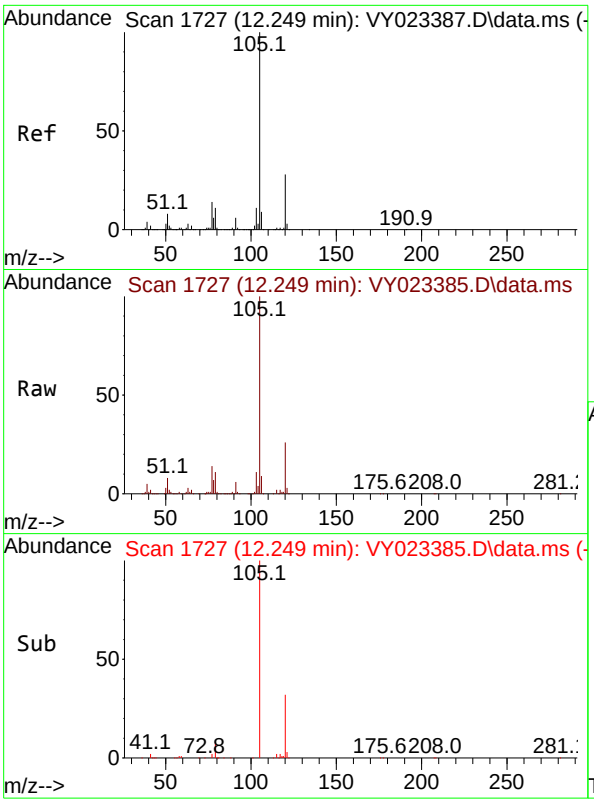


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

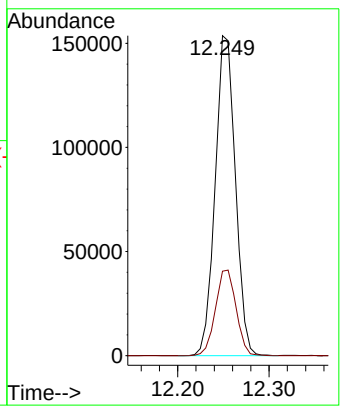




#73
Isopropylbenzene
Concen: 9.467 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:105 Resp: 23648

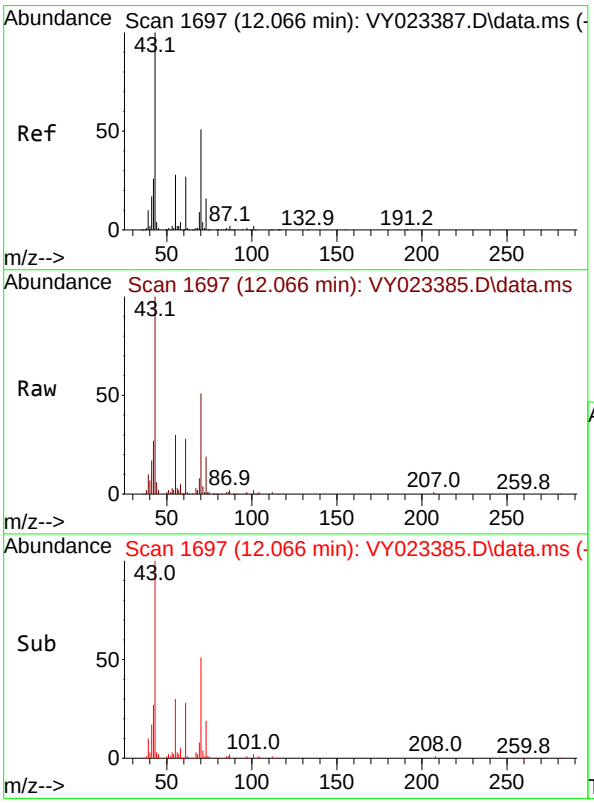
Ion	Ratio	Lower	Upper
105	100		
120	27.3	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

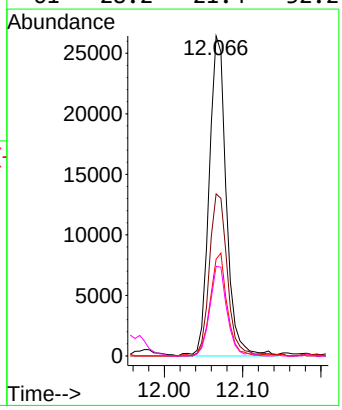
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

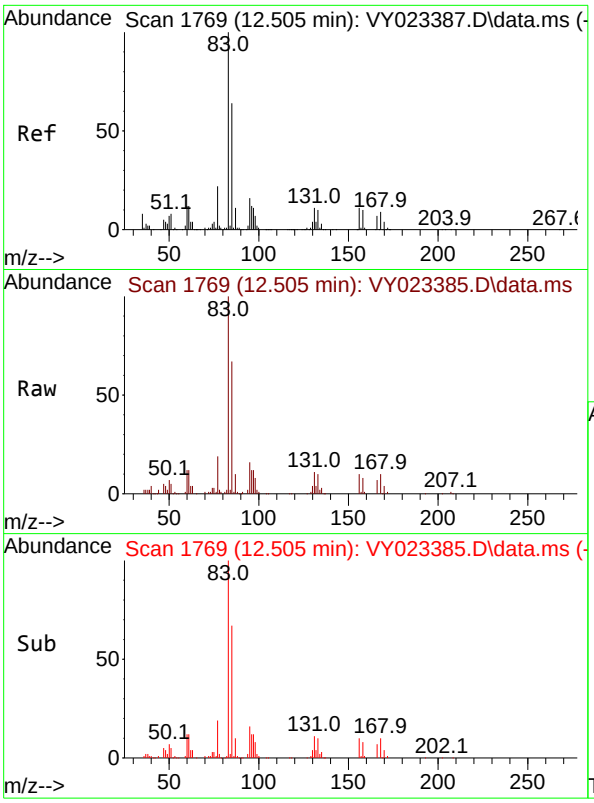


#74
N-amyl acetate
Concen: 8.590 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

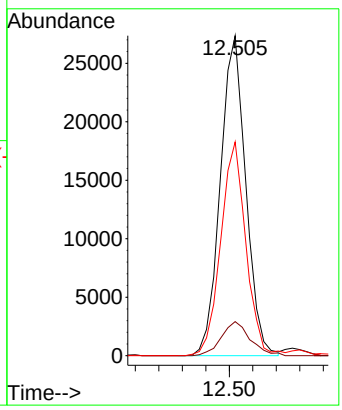




#75
1,1,2,2-Tetrachloroethane
Concen: 9.871 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 83 Resp: 4113

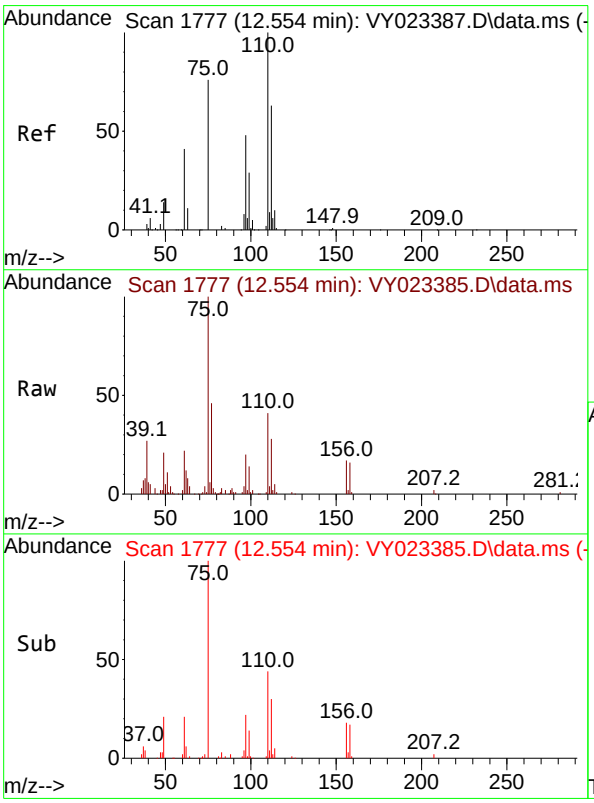
Ion	Ratio	Lower	Upper
83	100		
131	12.0	5.9	17.6
85	66.1	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

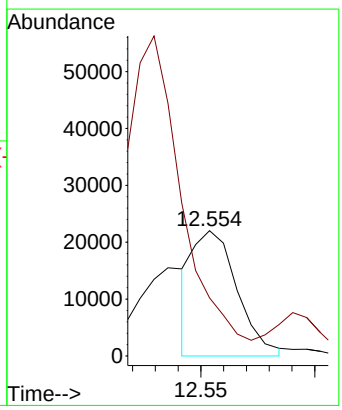
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

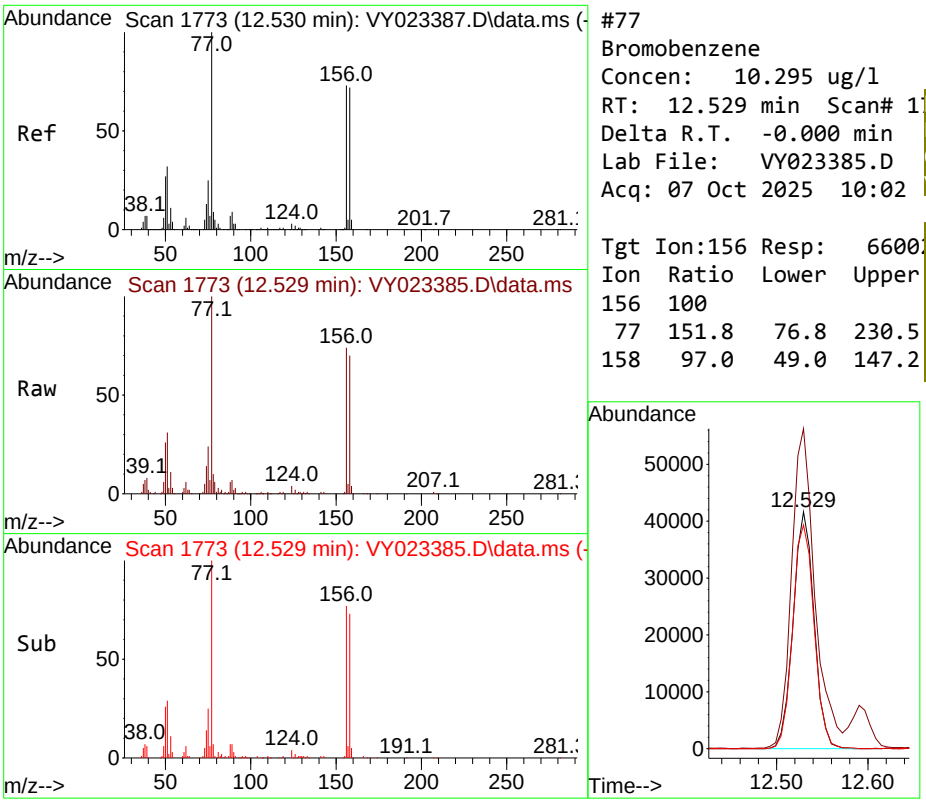


#76
1,2,3-Trichloropropane
Concen: 8.095 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

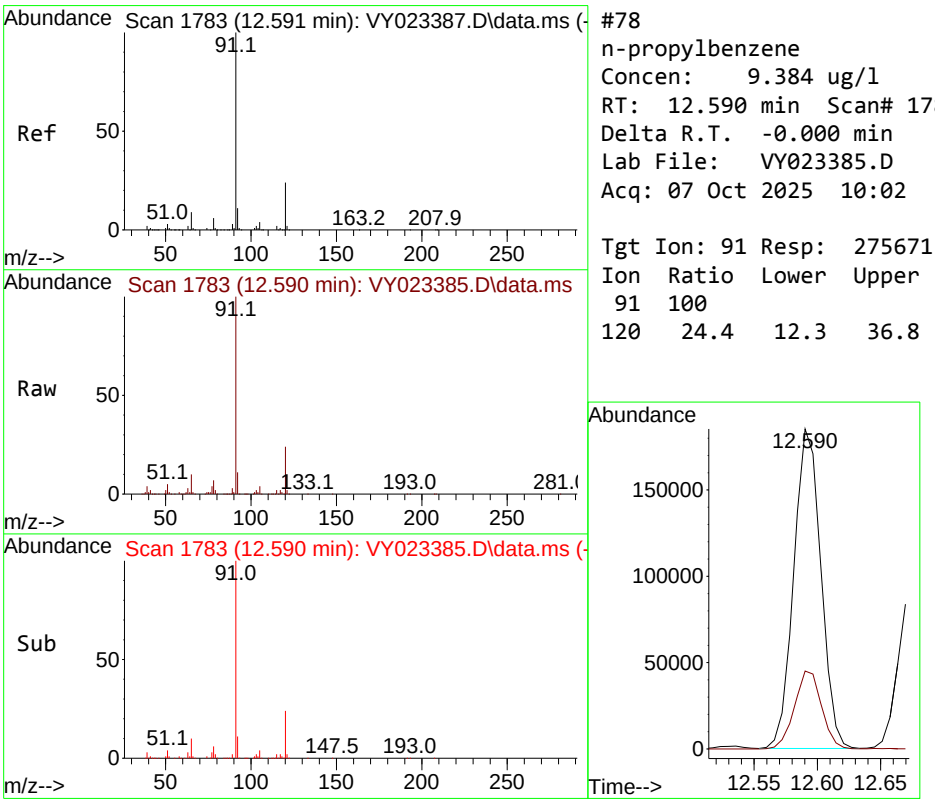
Tgt Ion:156 Resp: 6600

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

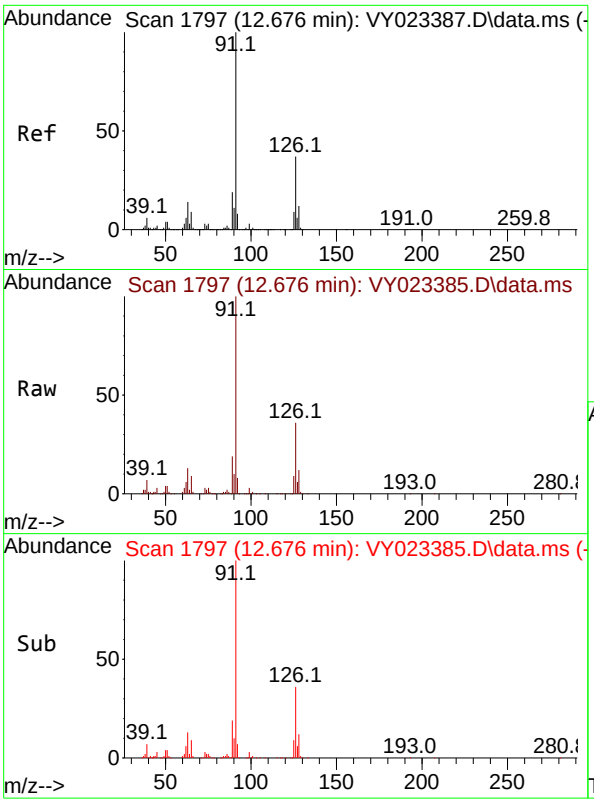
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

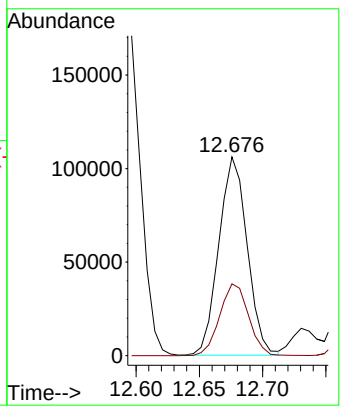
Ion	Ratio	Lower	Upper
91	100		
120	24.4	12.3	36.8



#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

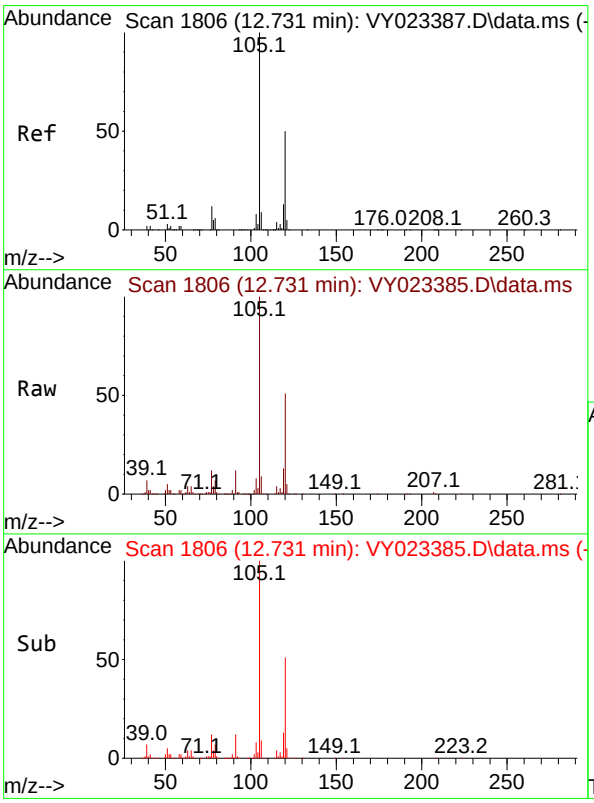
Ion	Ratio	Lower	Upper
91	100		
126	36.9	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

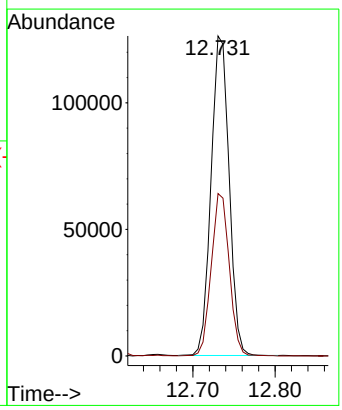
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

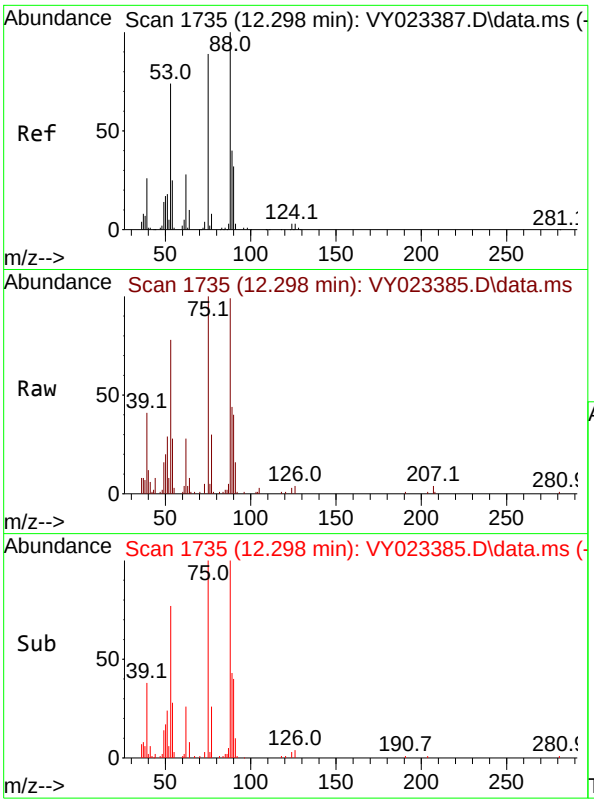


#80
1,3,5-Trimethylbenzene
Concen: 9.445 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:105 Resp: 191799

Ion	Ratio	Lower	Upper
105	100		
120	50.9	25.4	76.4

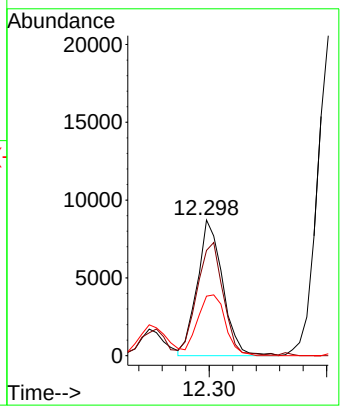




#81
trans-1,4-Dichloro-2-butene
Concen: 9.556 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 75 Resp: 1311

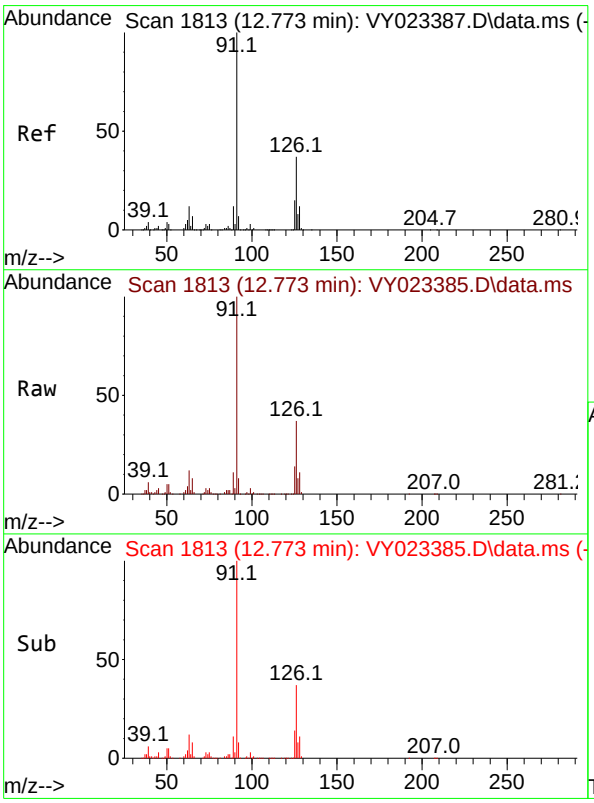
Ion	Ratio	Lower	Upper
75	100		
53	84.6	68.6	102.8
89	48.5	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

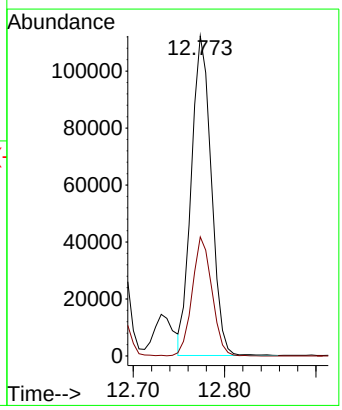
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

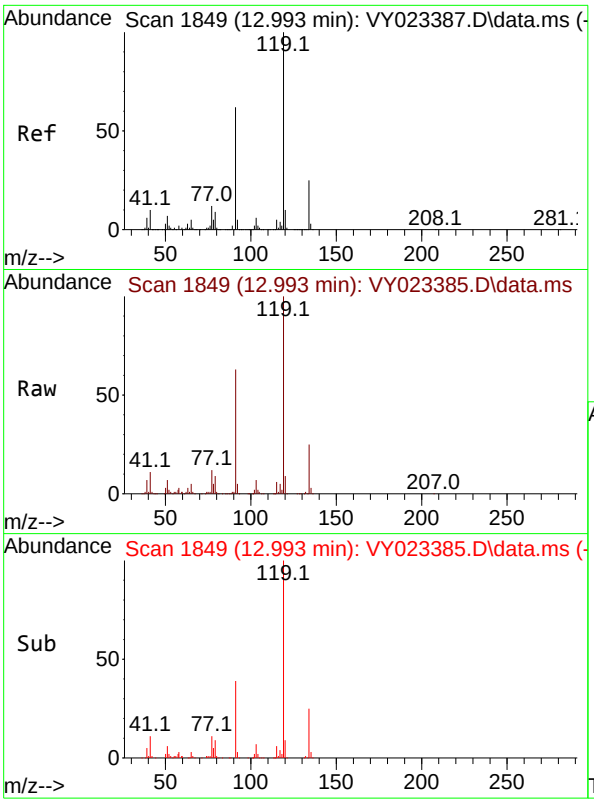


#82
4-Chlorotoluene
Concen: 9.595 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion: 91 Resp: 169968

Ion	Ratio	Lower	Upper
91	100		
126	36.8	18.4	55.4

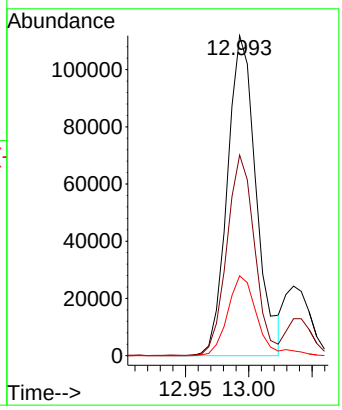




#83
tert-Butylbenzene
Concen: 9.579 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:119 Resp: 17725

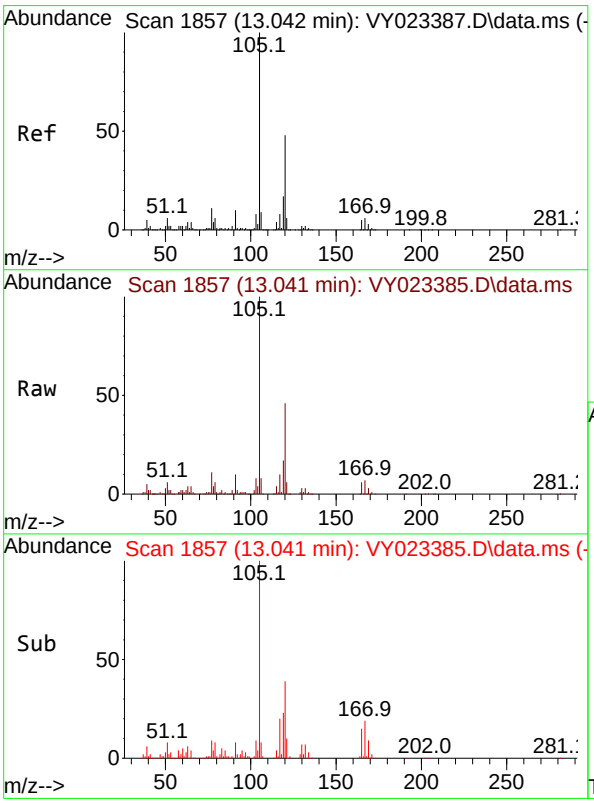
Ion	Ratio	Lower	Upper
119	100		
91	60.5	29.9	89.8
134	25.6	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

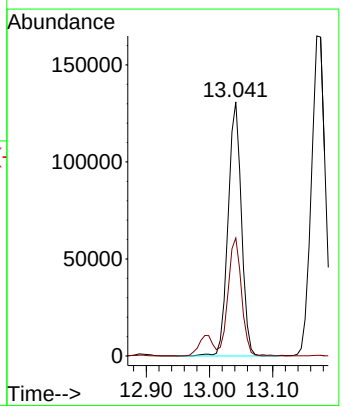
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

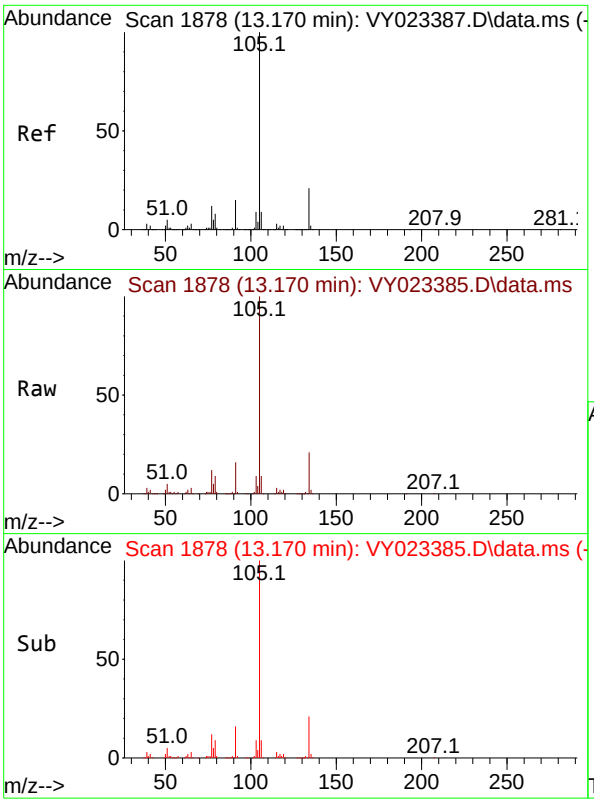


#84
1,2,4-Trimethylbenzene
Concen: 9.528 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:105 Resp: 191423

Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.8	71.2

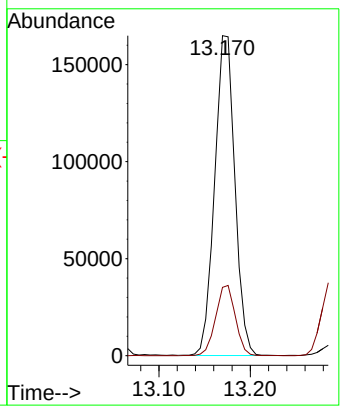




#85
sec-Butylbenzene
Concen: 9.483 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

Tgt Ion:105 Resp: 25413

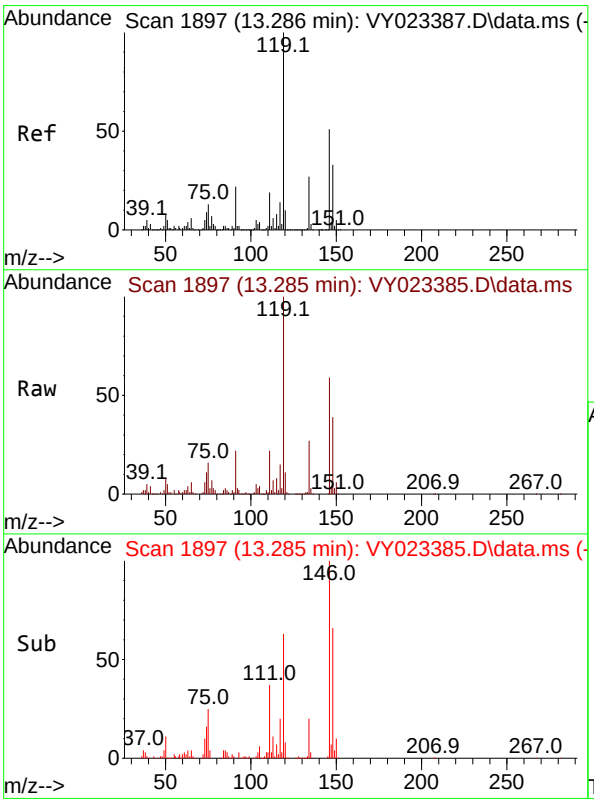
Ion	Ratio	Lower	Upper
105	100		
134	21.4	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

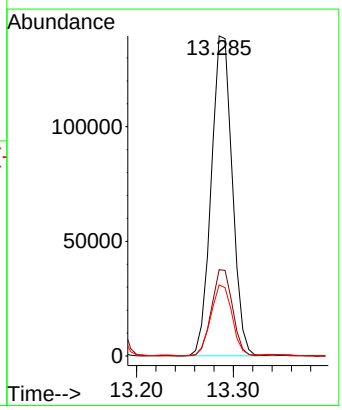
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

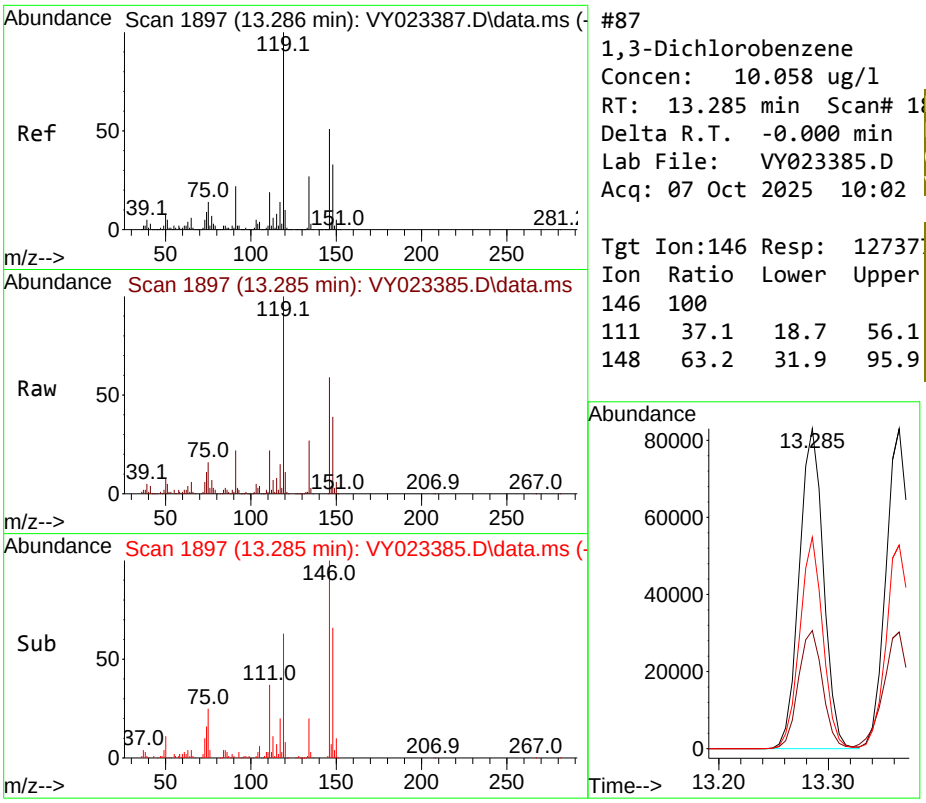


#86
p-Isopropyltoluene
Concen: 9.287 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

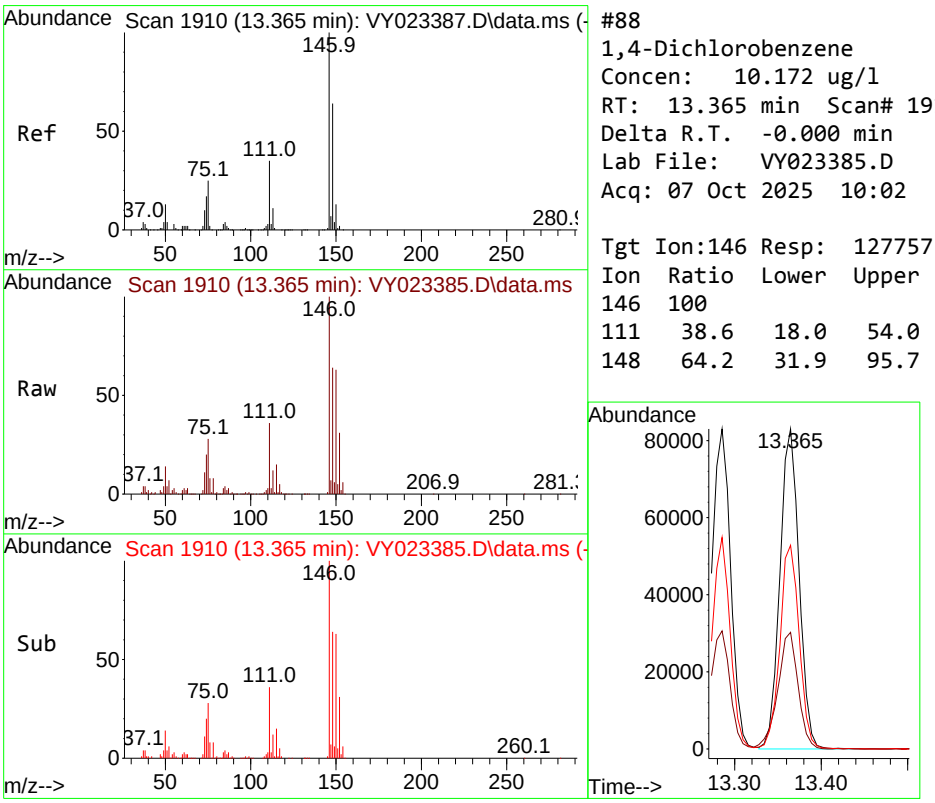
Tgt Ion:146 Resp: 12737

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

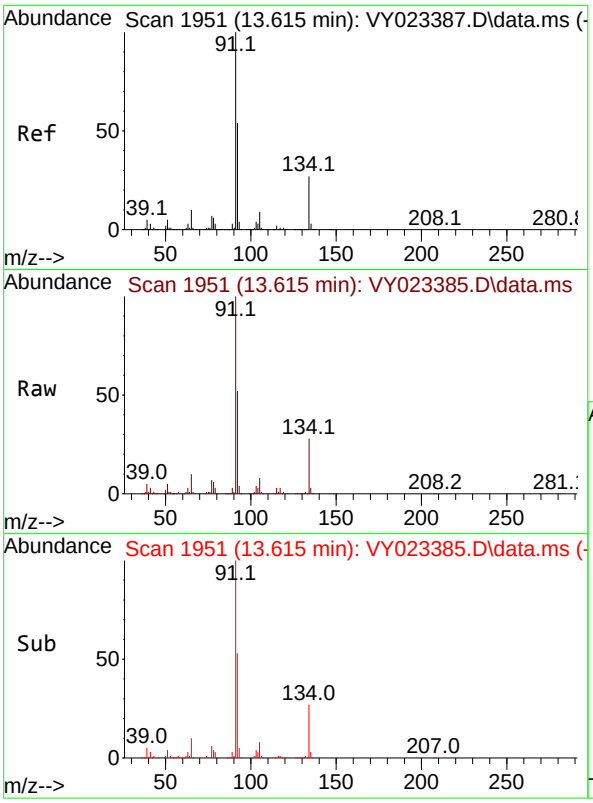
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

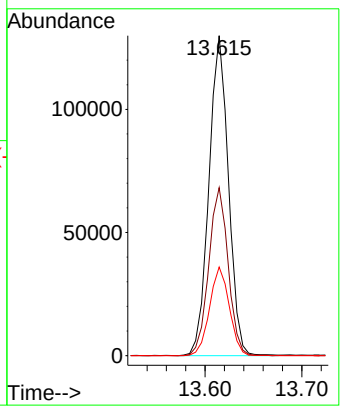
Ion	Ratio	Lower	Upper
146	100		
111	38.6	18.0	54.0
148	64.2	31.9	95.7



#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

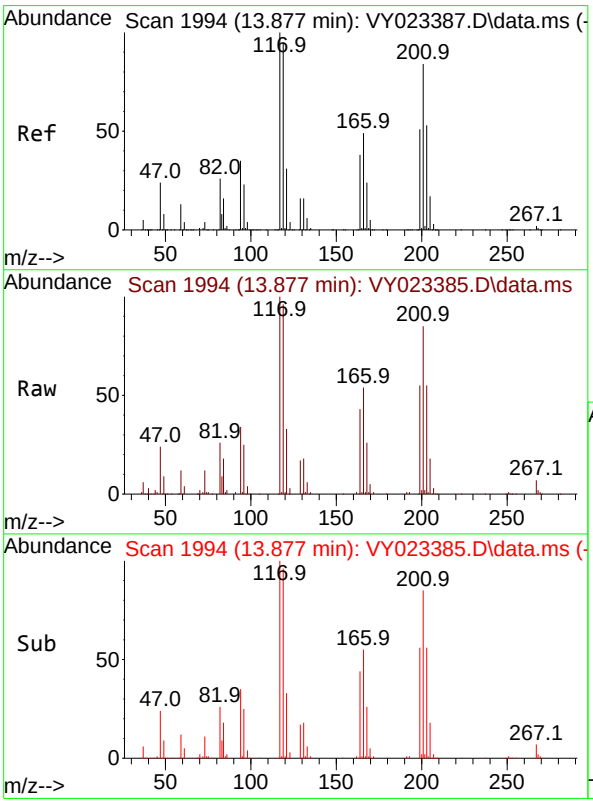
Ion	Ratio	Lower	Upper
91	100		
92	52.2	27.0	80.8
134	28.0	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

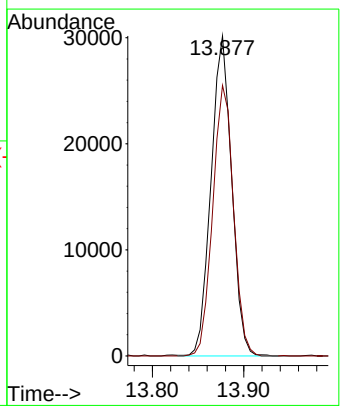
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

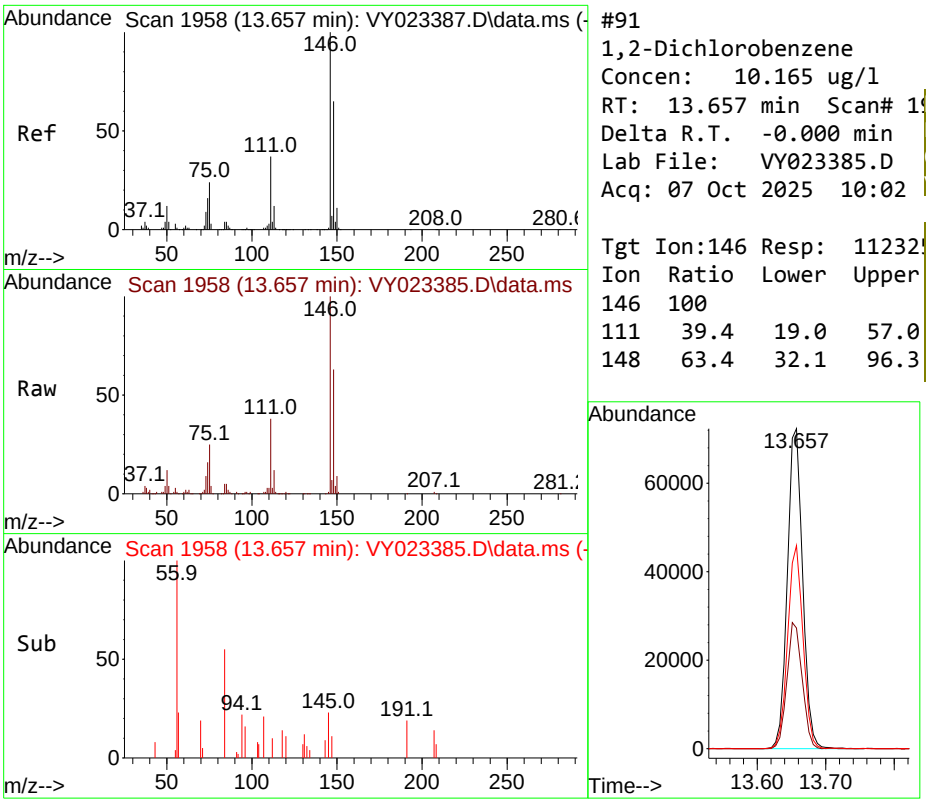


#90
Hexachloroethane
Concen: 9.630 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023385.D
Acq: 07 Oct 2025 10:02

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

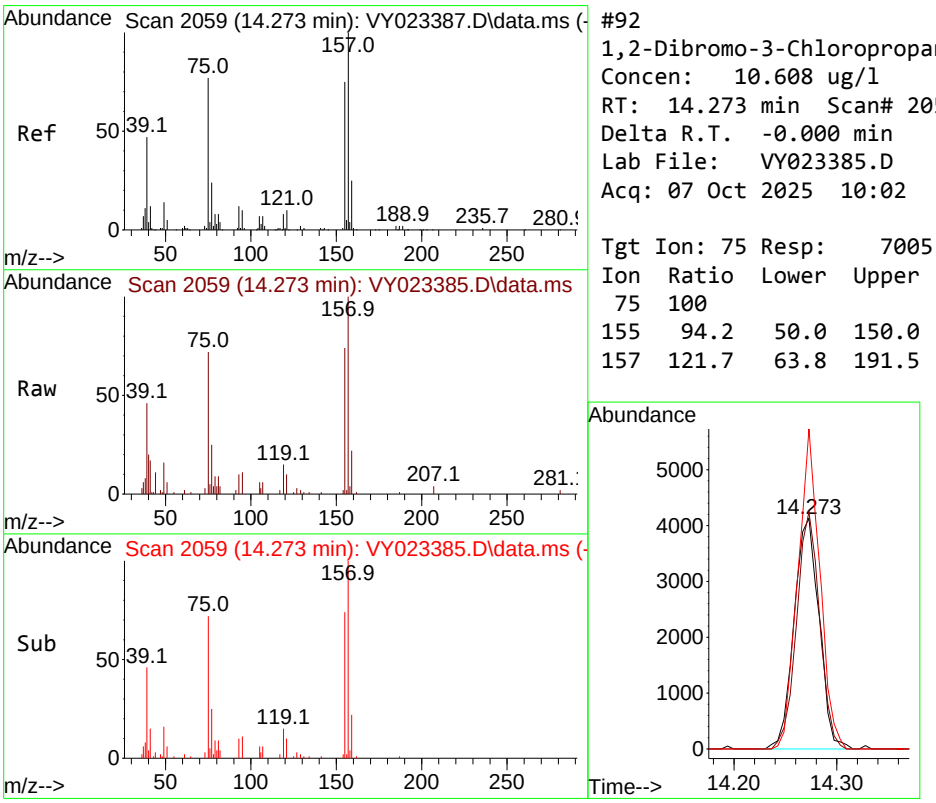
Tgt Ion:146 Resp: 11232

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

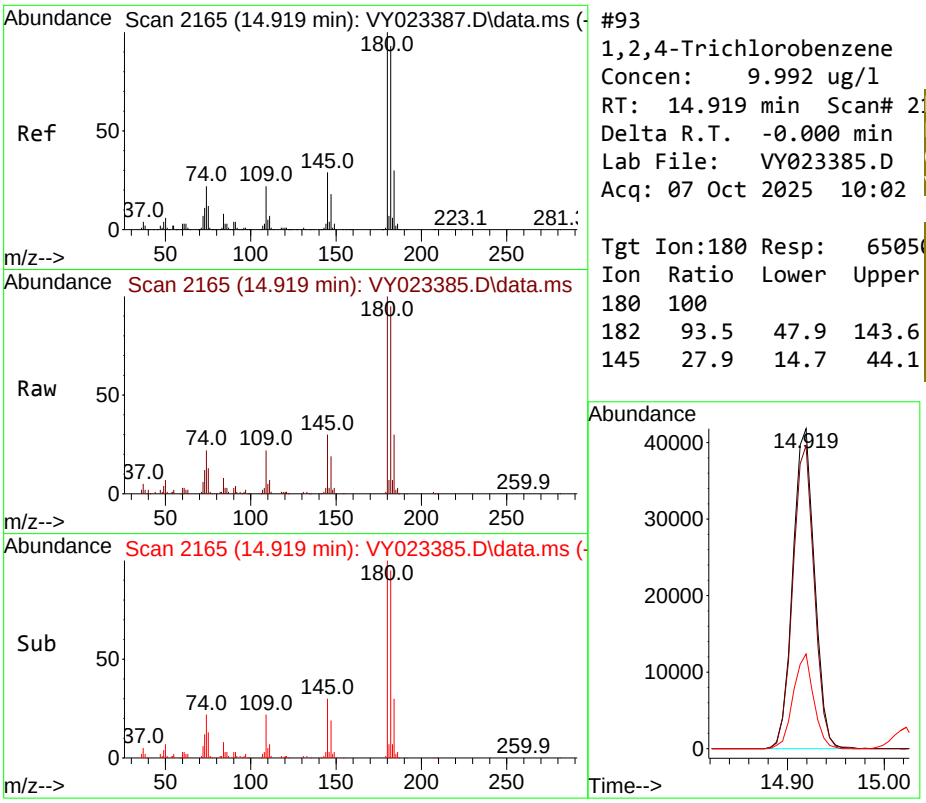
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

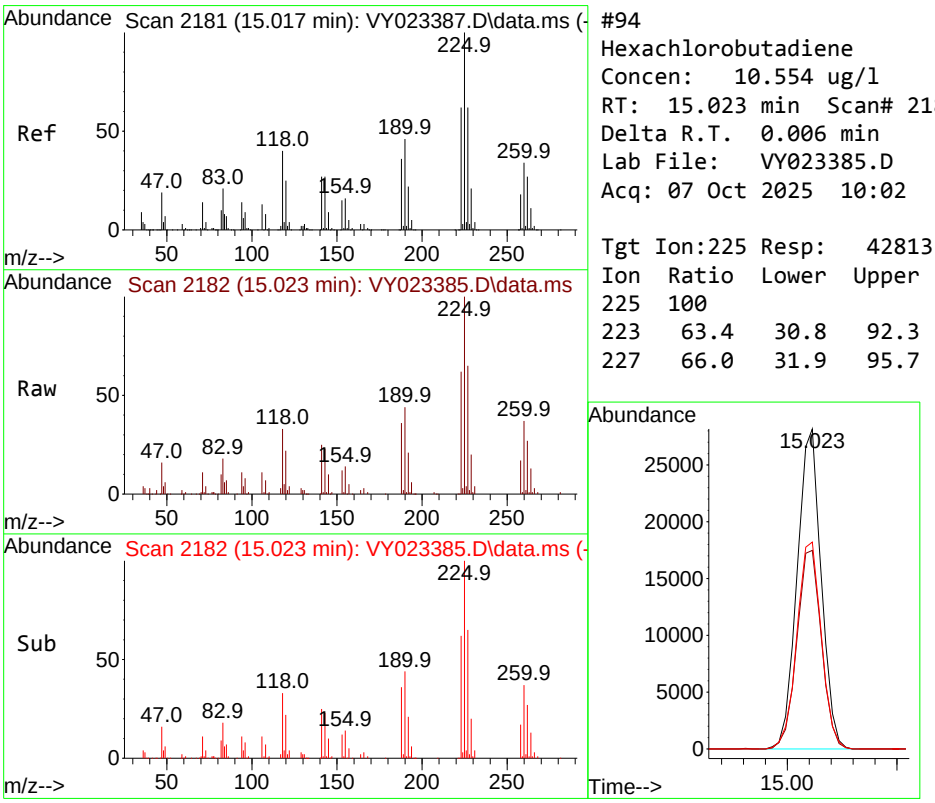
Tgt Ion:180 Resp: 6505

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

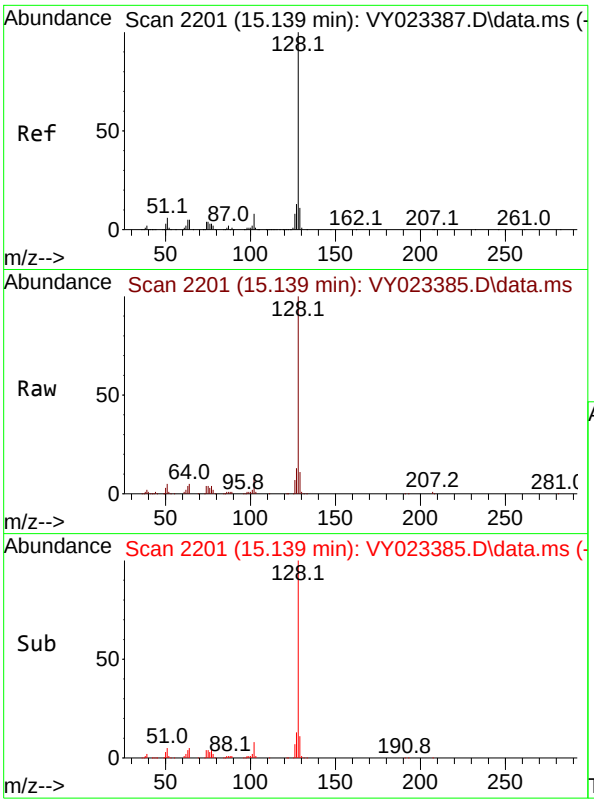
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

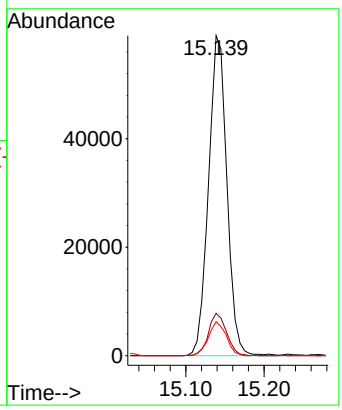
Ion	Ratio	Lower	Upper
225	100		
223	63.4	30.8	92.3
227	66.0	31.9	95.7



#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

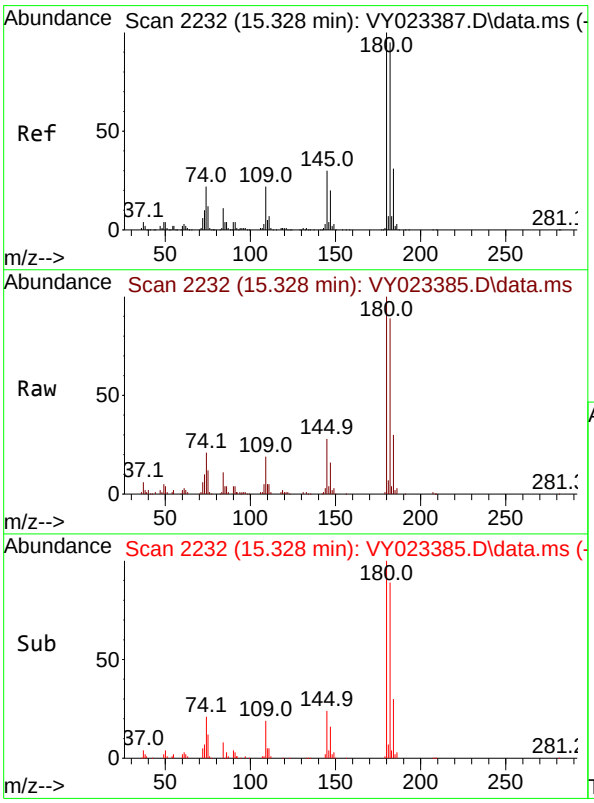
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.4	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

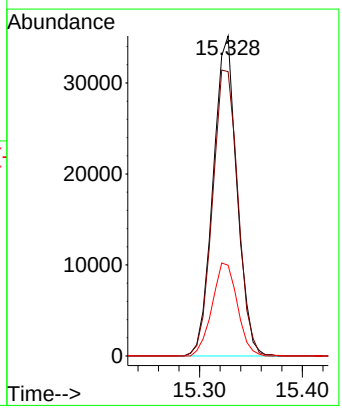
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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



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)
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

ICAL Form

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

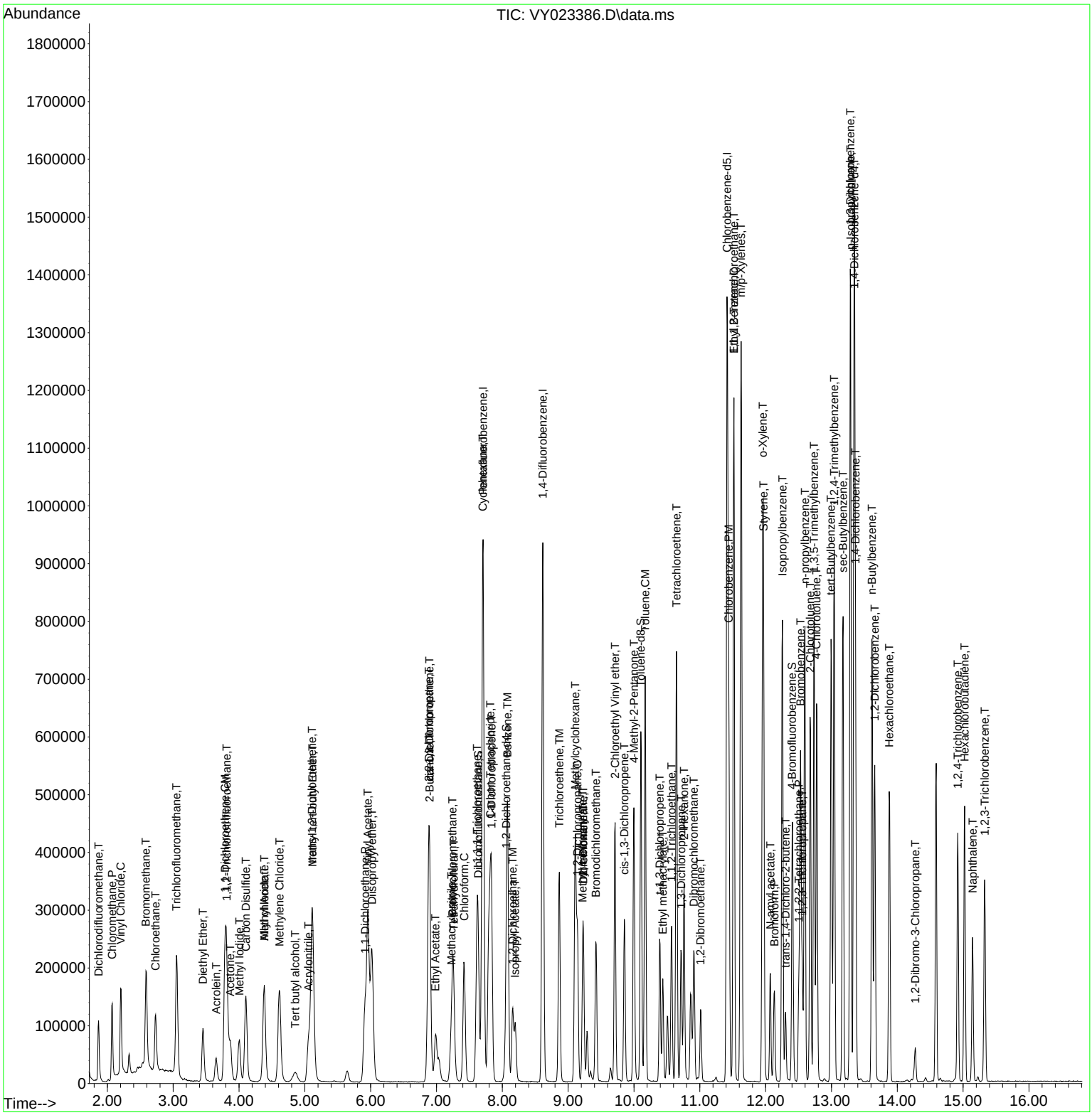
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023386.D
Acq On : 07 Oct 2025 11:24
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

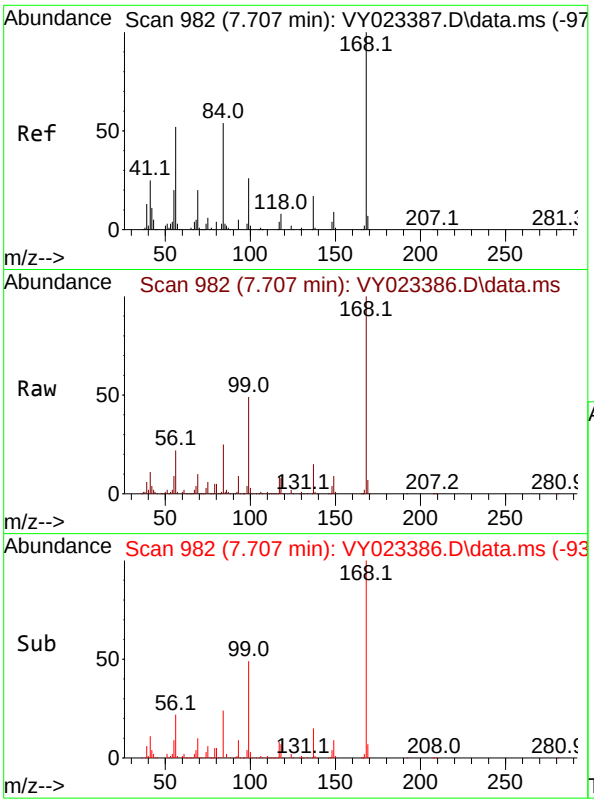
Quant Time: Oct 08 04:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

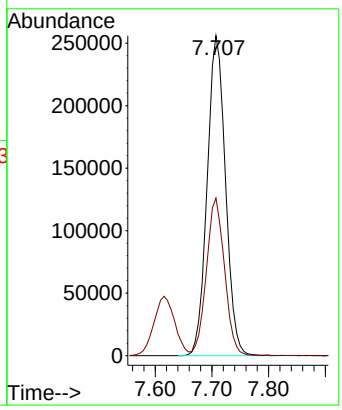




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:168 Resp: 57436

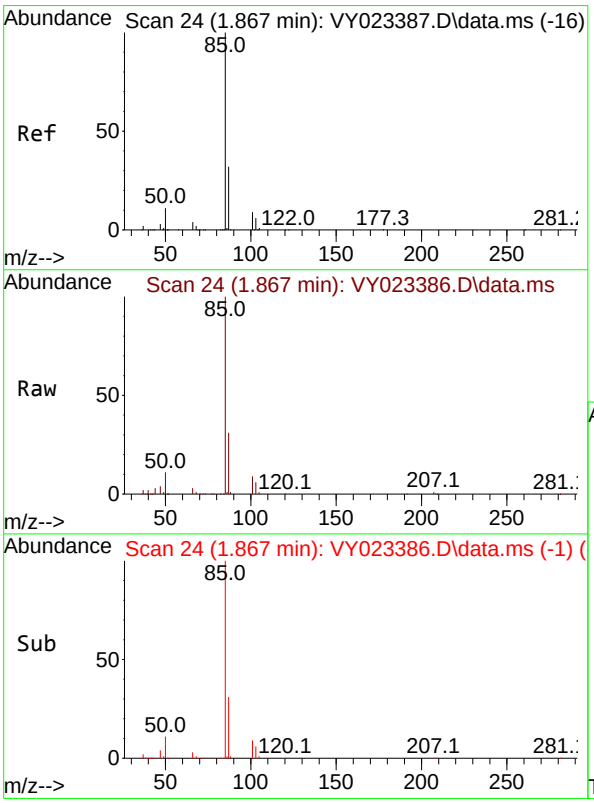
Ion	Ratio	Lower	Upper
168	100		
99	49.2	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

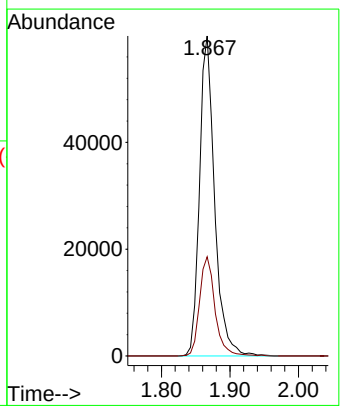
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

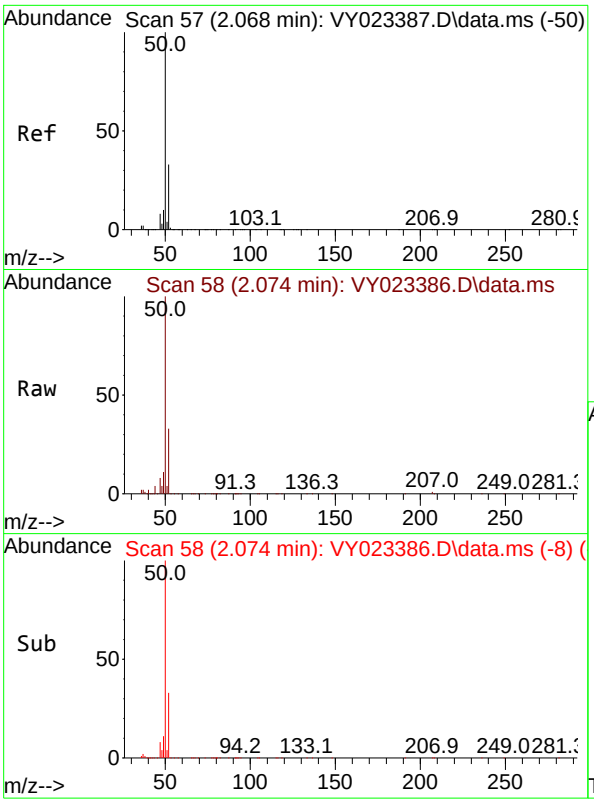


#2
Dichlorodifluoromethane
Concen: 20.318 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 85 Resp: 91924

Ion	Ratio	Lower	Upper
85	100		
87	31.0	16.0	47.9

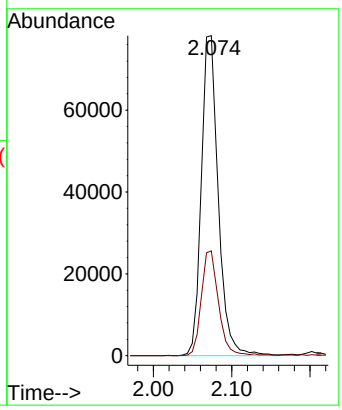




#3
Chloromethane
Concen: 18.284 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 50 Resp: 11758

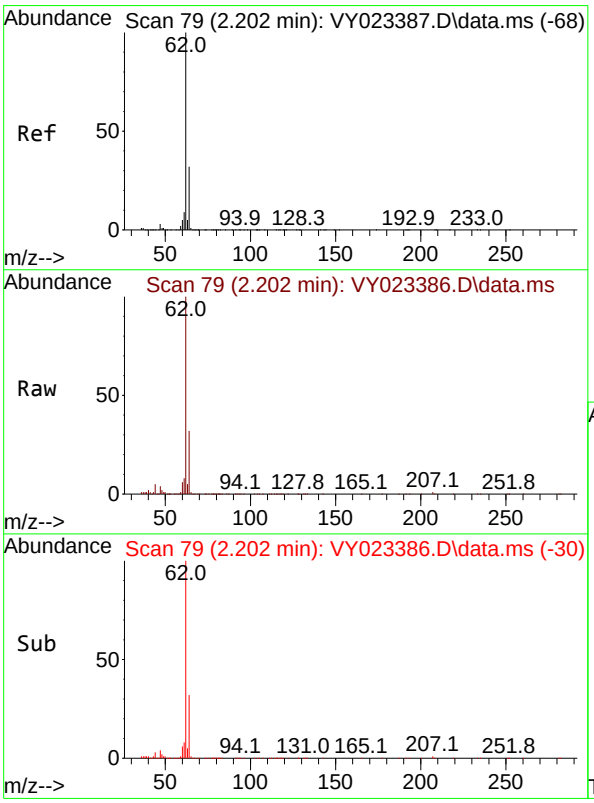
Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

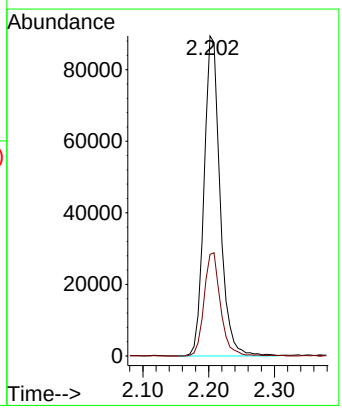
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

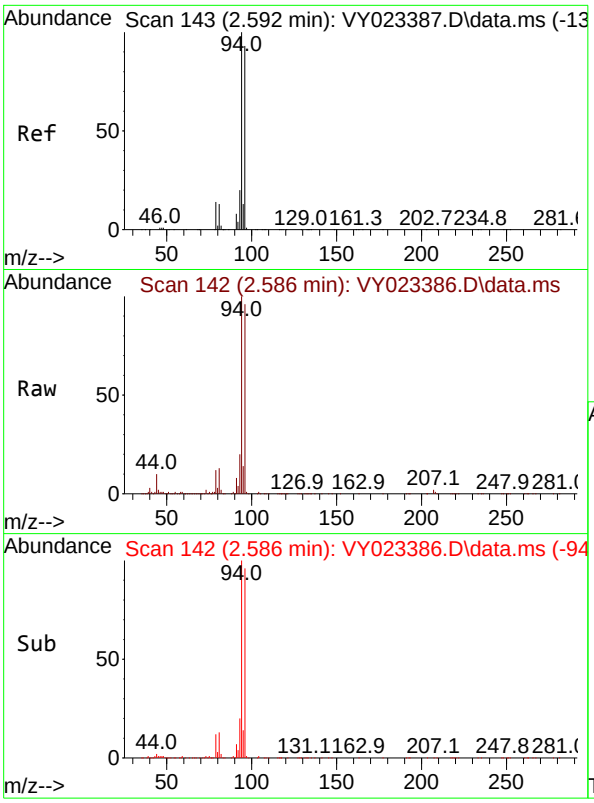


#4
Vinyl Chloride
Concen: 18.652 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 62 Resp: 151460

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.8	38.8

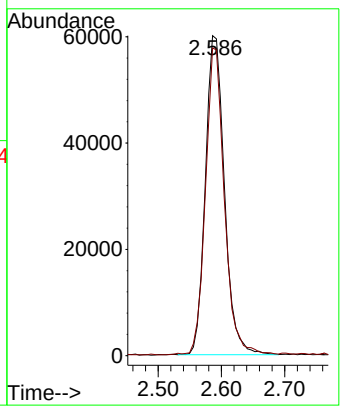




#5
Bromomethane
Concen: 18.907 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 94 Resp: 12594

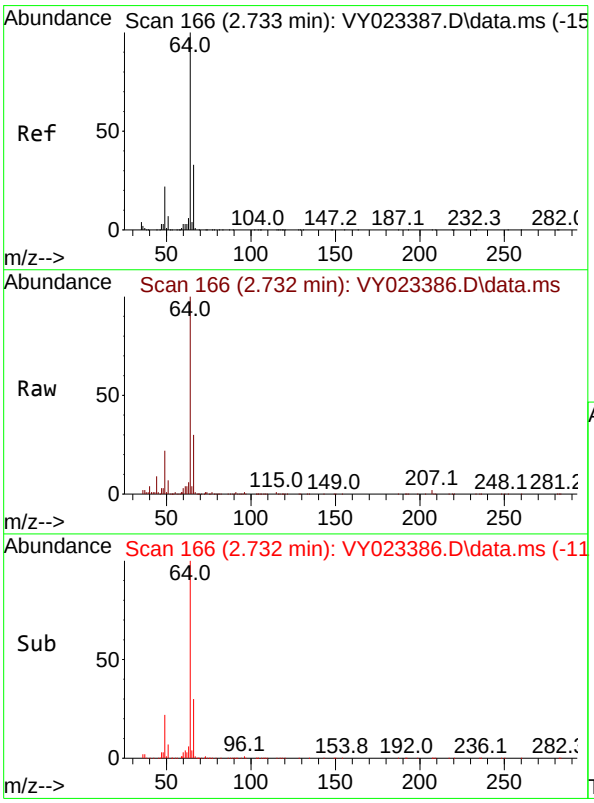
Ion	Ratio	Lower	Upper
94	100		
96	95.9	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

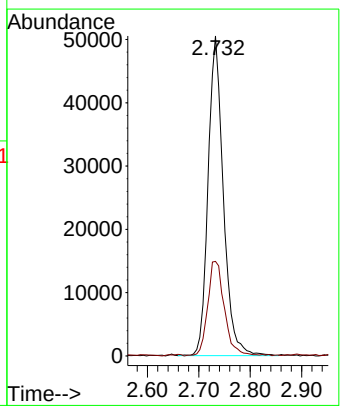
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

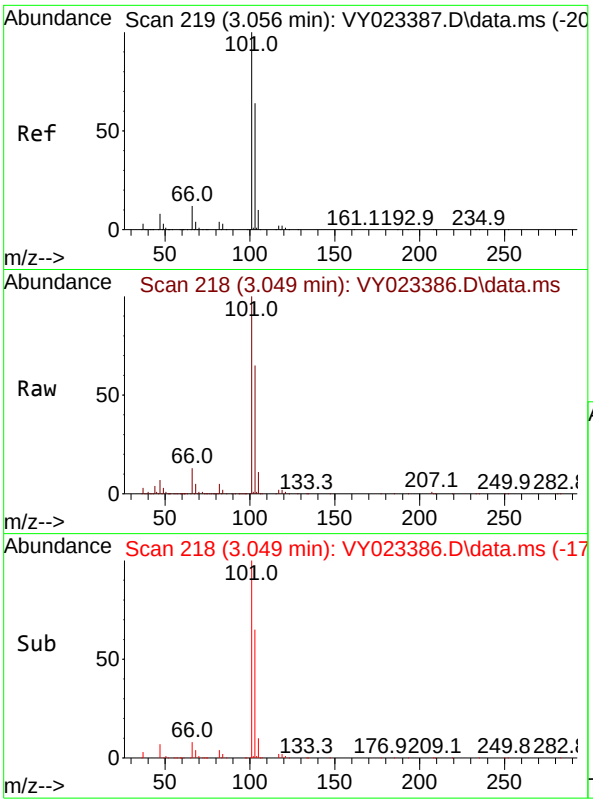


#6
Chloroethane
Concen: 18.859 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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# 21
Delta R.T. -0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

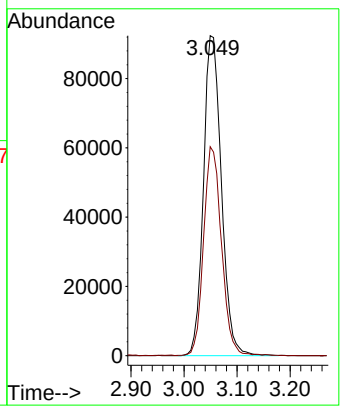
Tgt Ion:101 Resp: 21745

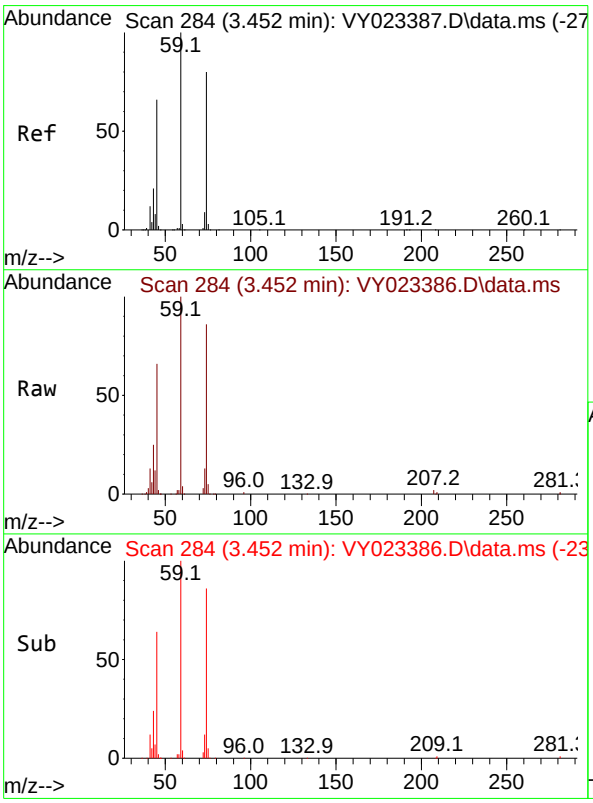
Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.3	76.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

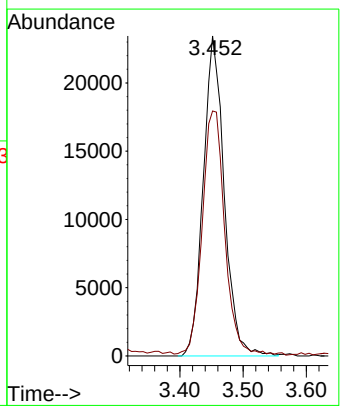


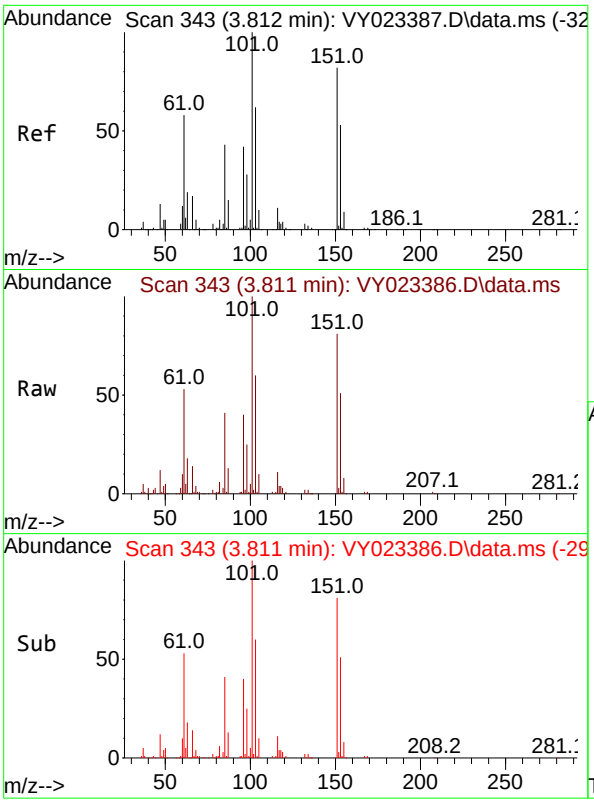


#8
Diethyl Ether
Concen: 19.837 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

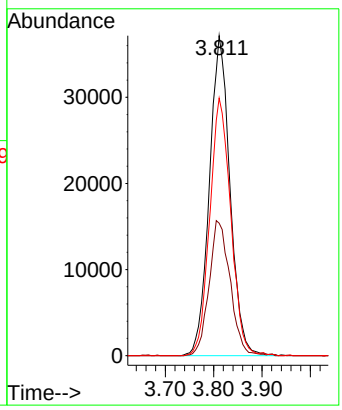
Tgt Ion:101 Resp: 10993

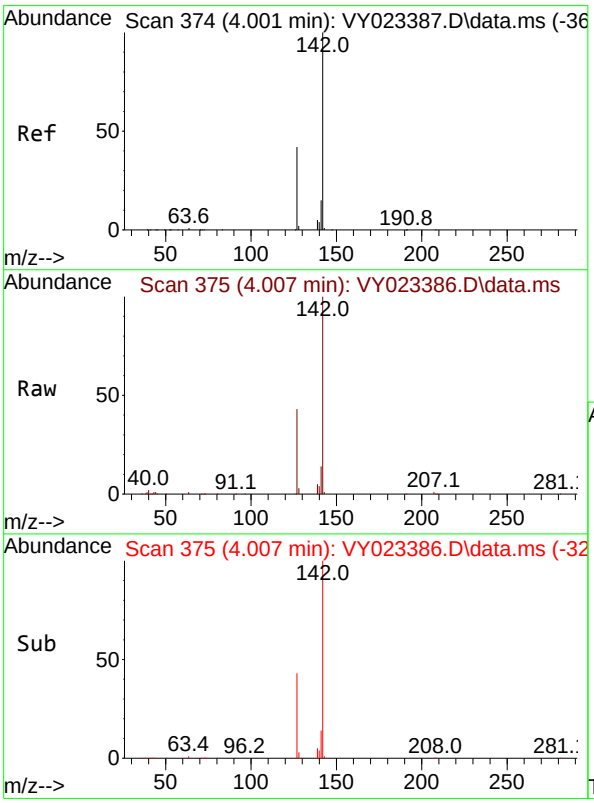
Ion	Ratio	Lower	Upper
101	100		
85	43.1	34.6	51.8
151	82.2	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

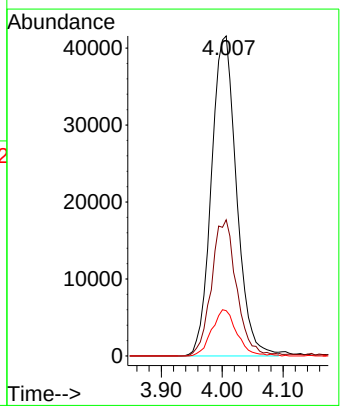


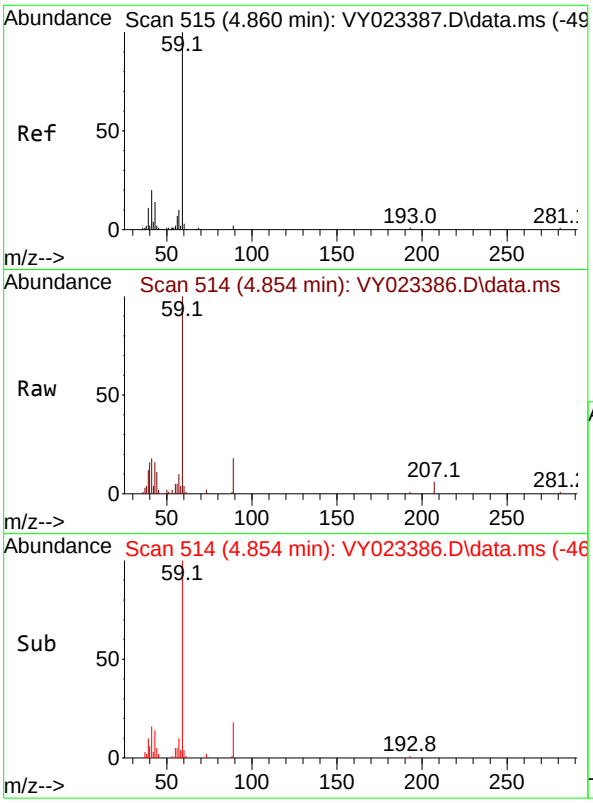


#10
Methyl Iodide
Concen: 18.482 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

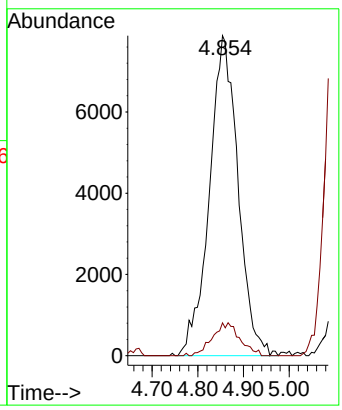




#11
Tert butyl alcohol
Concen: 117.345 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 59 Resp: 3434

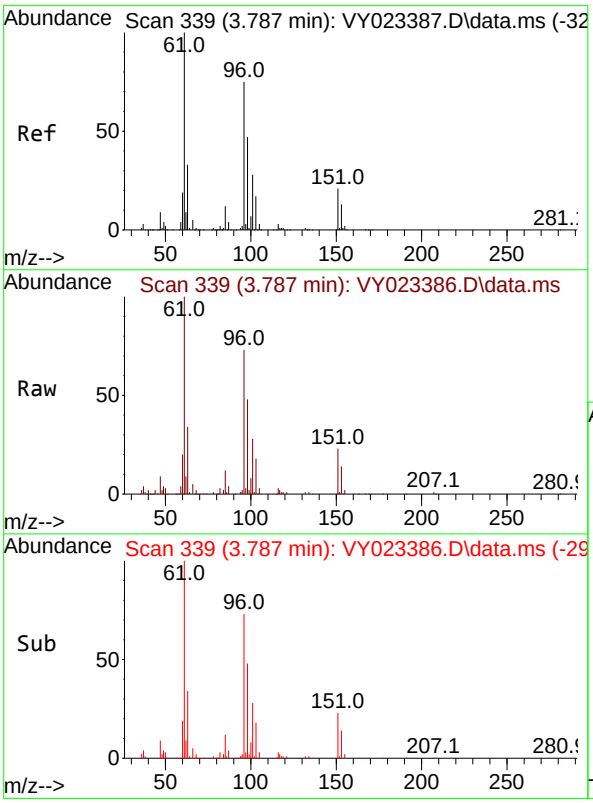
Ion	Ratio	Lower	Upper
59	100		
57	9.8	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

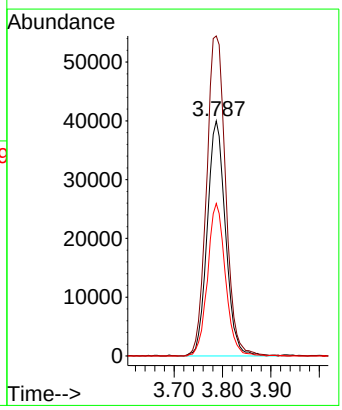
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

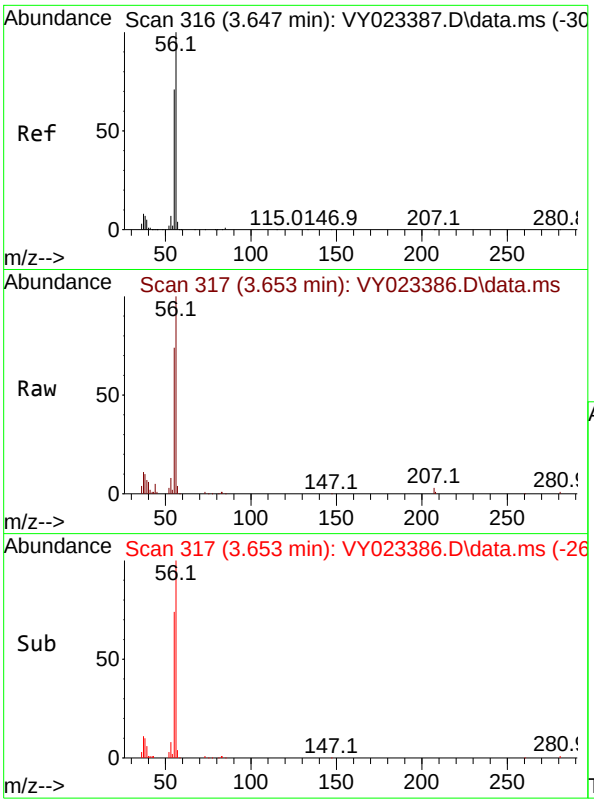


#12
1,1-Dichloroethene
Concen: 19.531 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

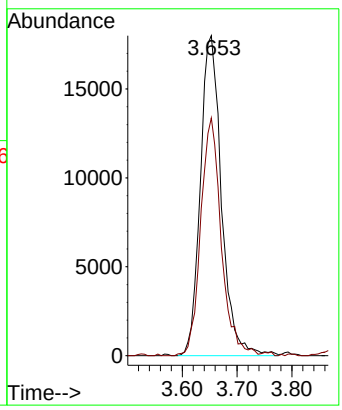




#13
Acrolein
Concen: 97.023 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 56 Resp: 4811

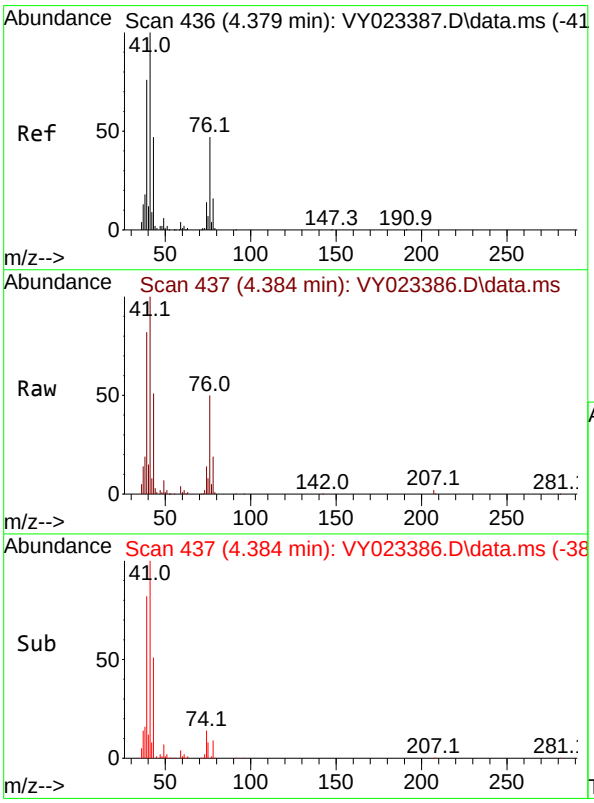
Ion	Ratio	Lower	Upper
56	100		
55	72.0	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

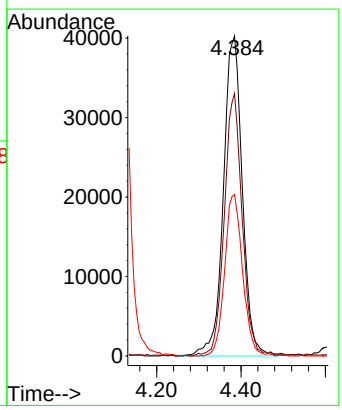
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

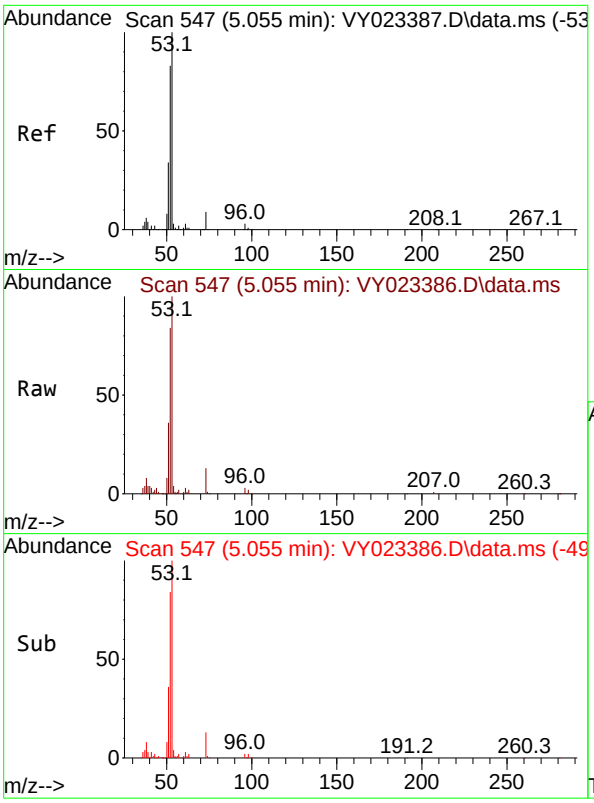


#14
Allyl chloride
Concen: 18.674 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

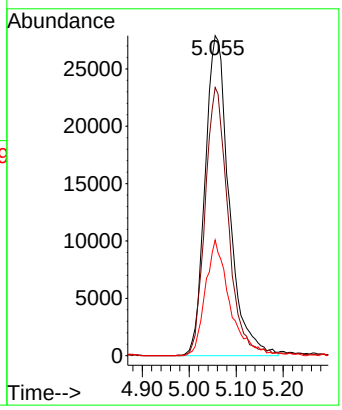




#15
Acrylonitrile
Concen: 92.641 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 53 Resp: 9901

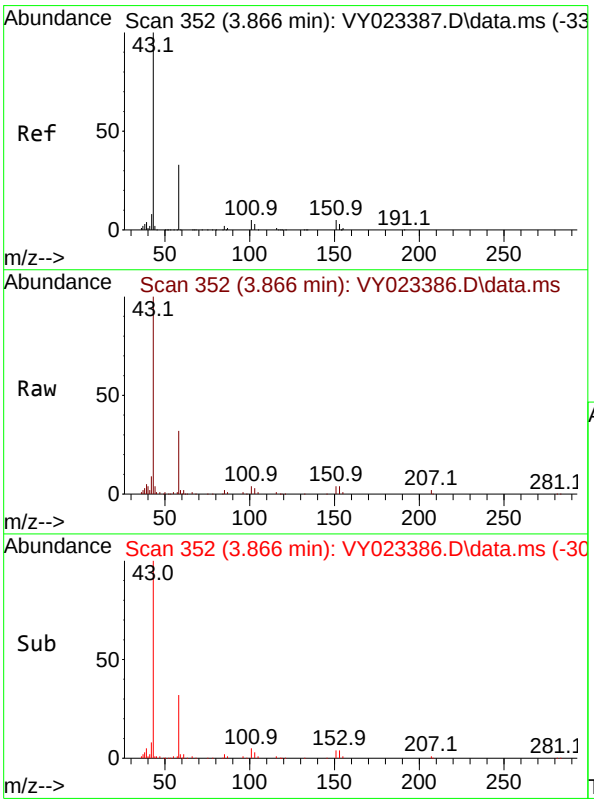
Ion	Ratio	Lower	Upper
53	100		
52	80.7	64.6	97.0
51	36.6	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

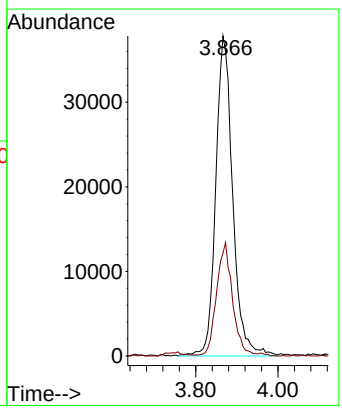
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

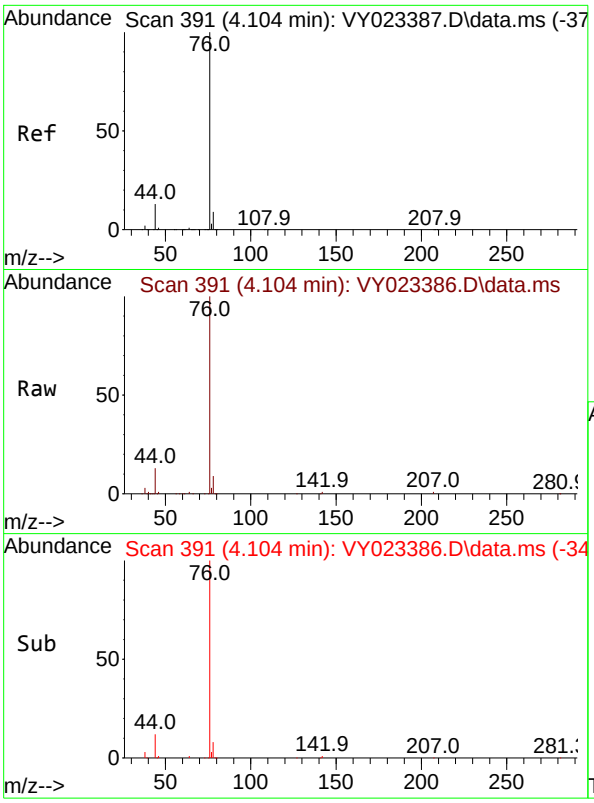


#16
Acetone
Concen: 96.742 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 108209

Ion	Ratio	Lower	Upper
43	100		
58	32.1	27.7	41.5

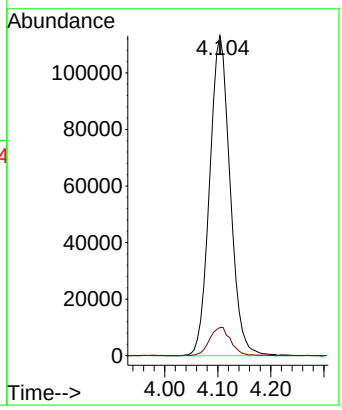




#17
Carbon Disulfide
Concen: 18.121 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 76 Resp: 30328

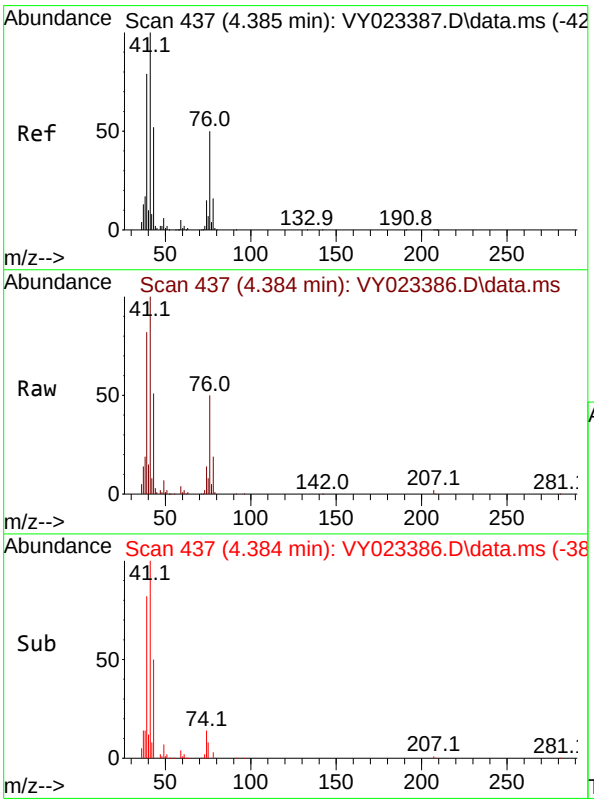
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

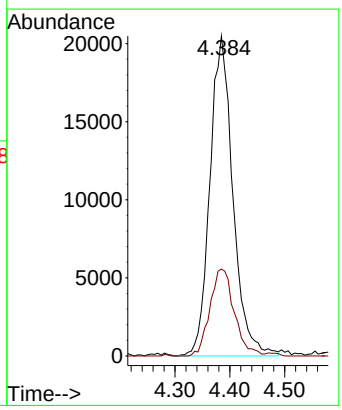
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

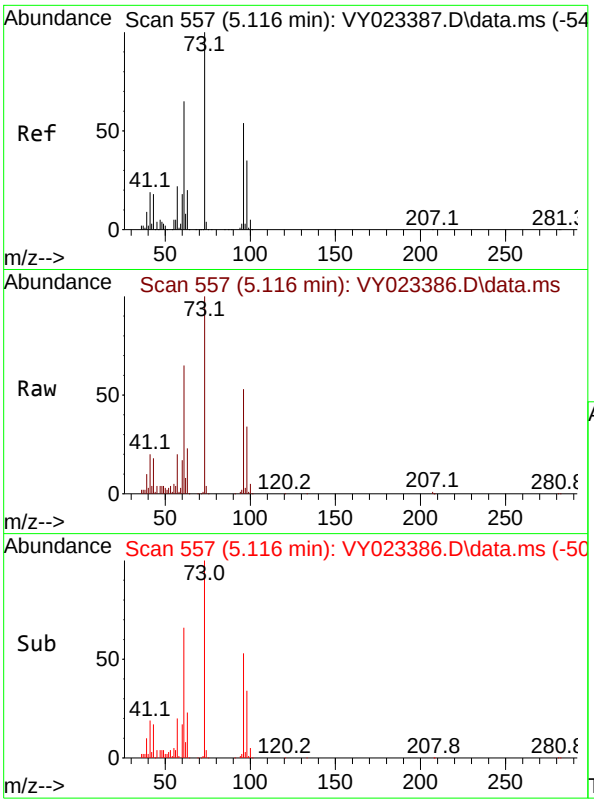


#18
Methyl Acetate
Concen: 21.002 ug/l
RT: 4.384 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 59704

Ion	Ratio	Lower	Upper
43	100		
74	28.7	24.2	36.4

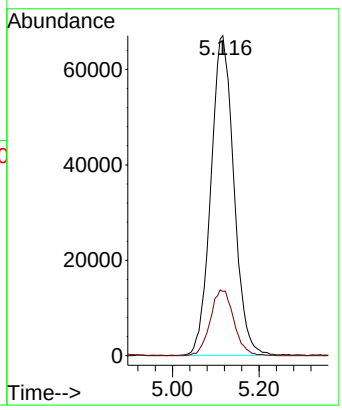




#19
Methyl tert-butyl Ether
Concen: 19.667 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 73 Resp: 24703

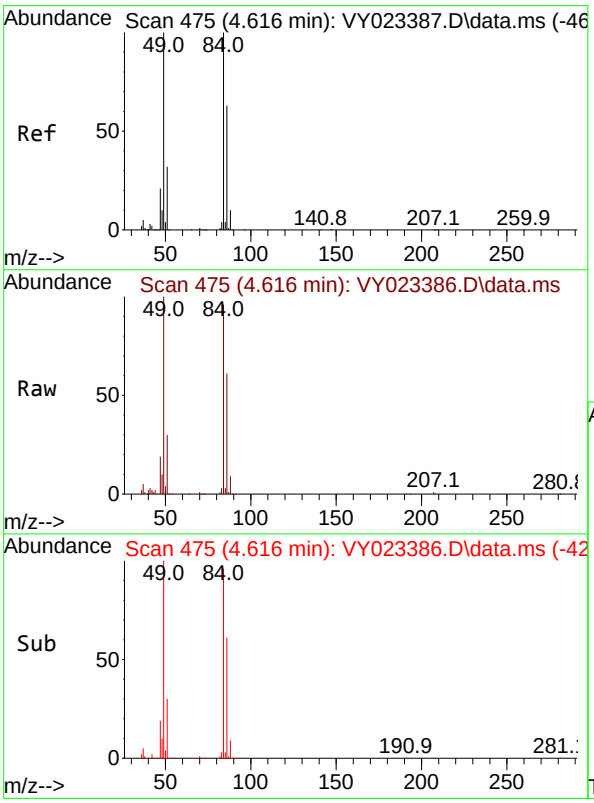
Ion	Ratio	Lower	Upper
73	100		
57	20.1	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

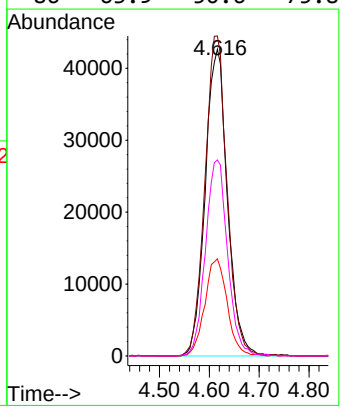
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

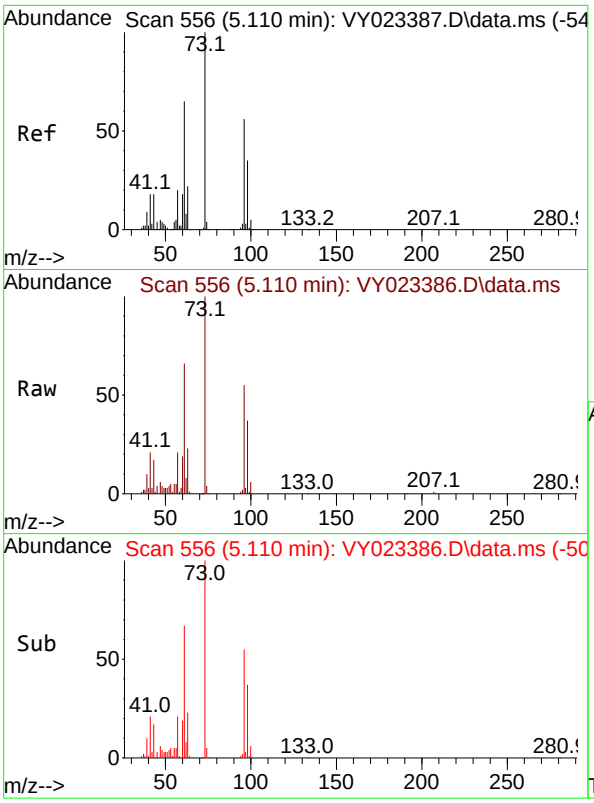


#20
Methylene Chloride
Concen: 21.801 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

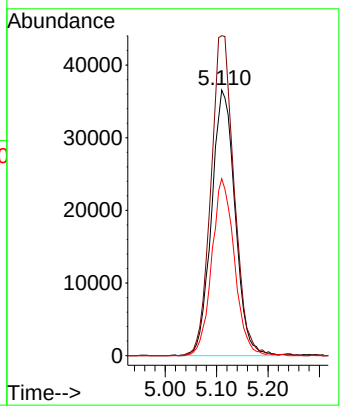
Tgt Ion: 96 Resp: 11641

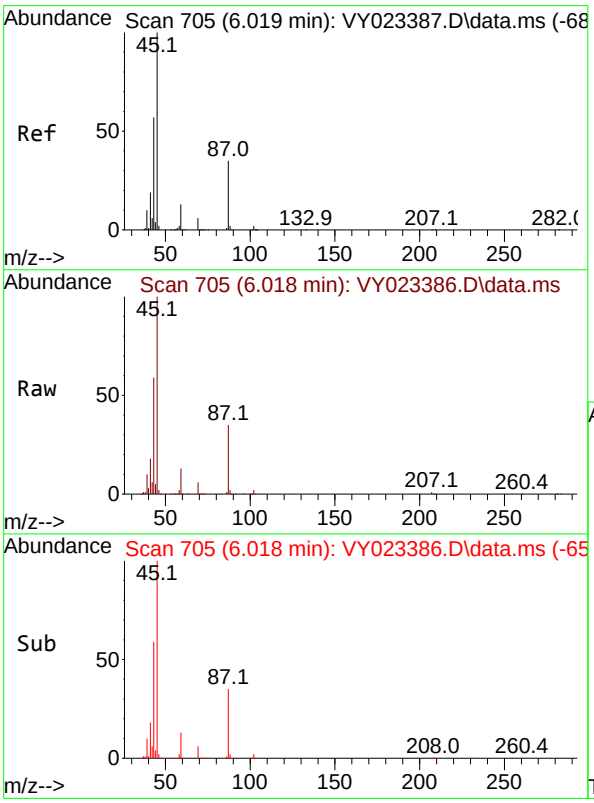
Ion	Ratio	Lower	Upper
96	100		
61	120.5	92.7	139.1
98	66.7	49.7	74.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

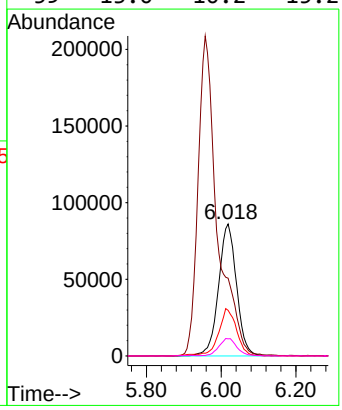


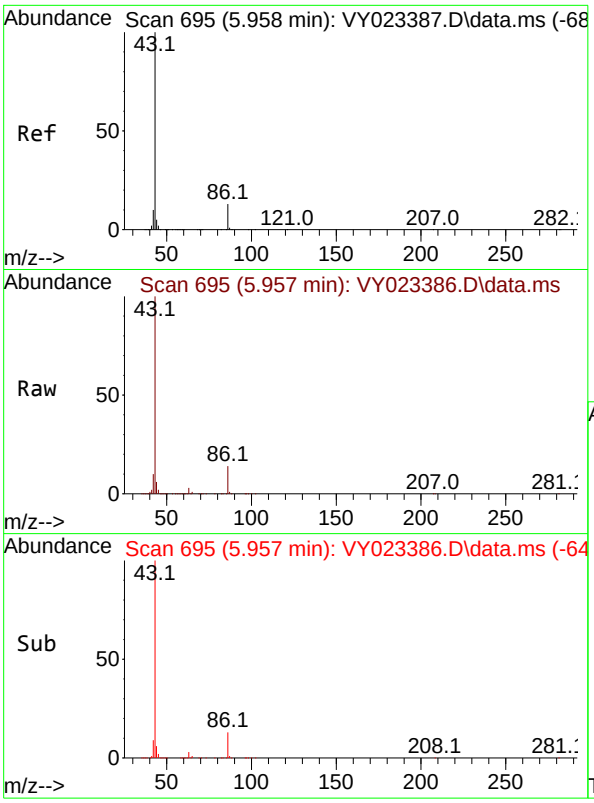


#22
Diisopropyl ether
Concen: 19.366 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

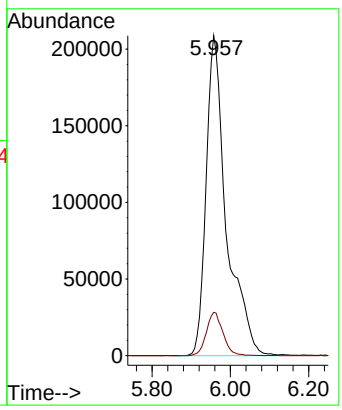




#23
Vinyl Acetate
Concen: 91.373 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 74804

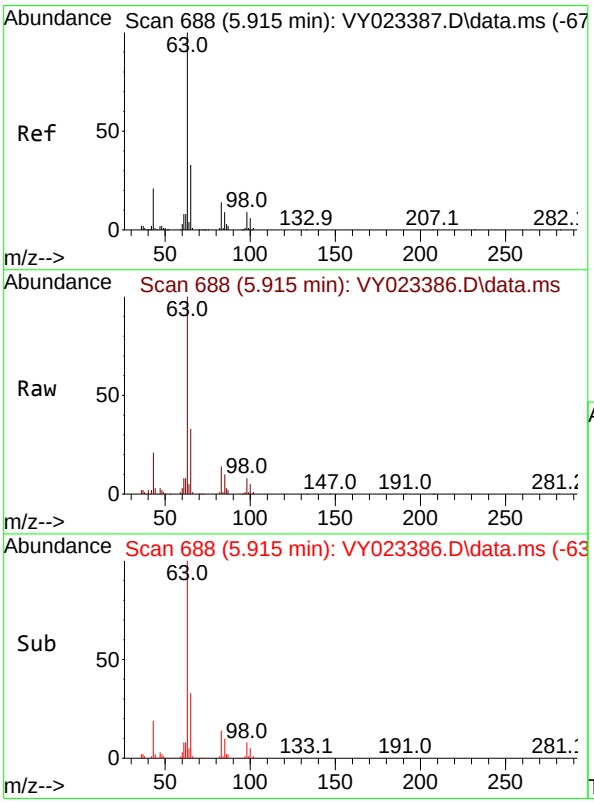
Ion	Ratio	Lower	Upper
43	100		
86	13.5	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

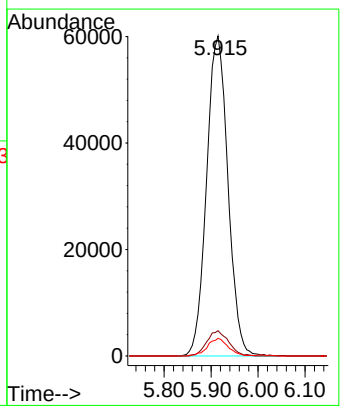
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

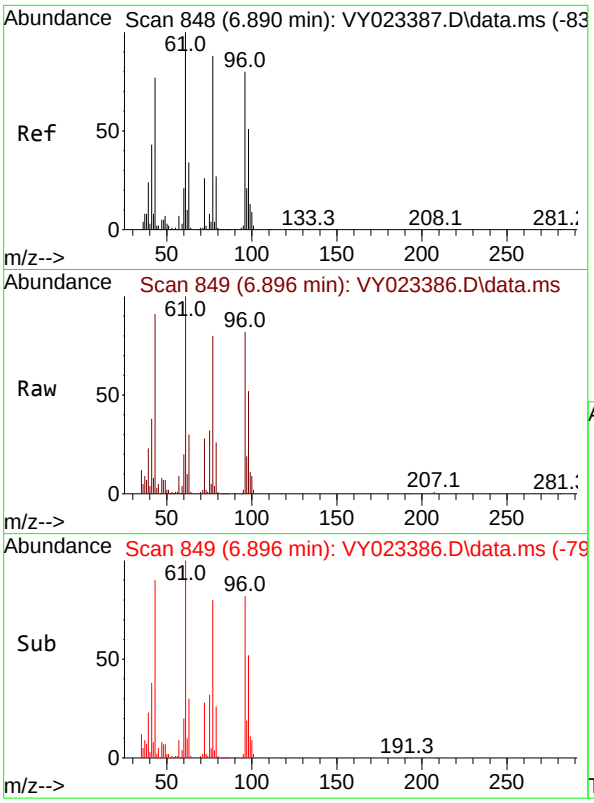


#24
1,1-Dichloroethane
Concen: 19.354 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

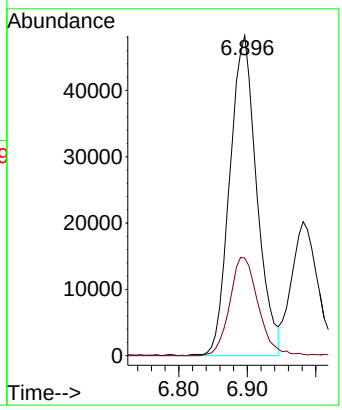
Tgt Ion: 43 Resp: 13215

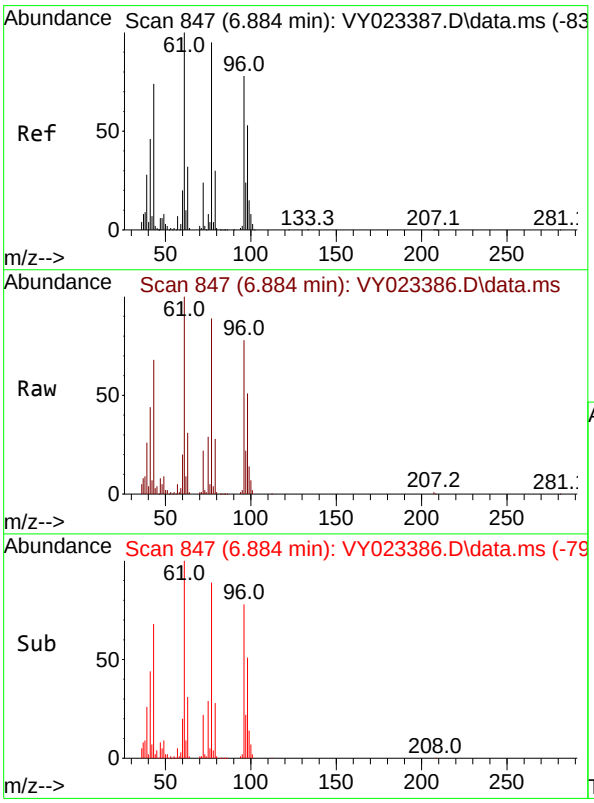
Ion	Ratio	Lower	Upper
43	100		
72	30.5	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

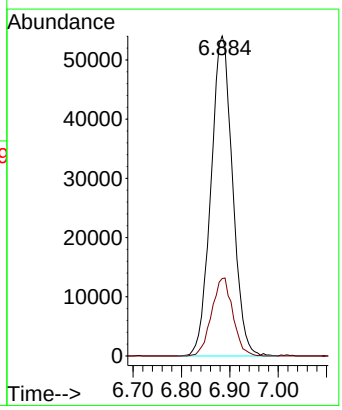


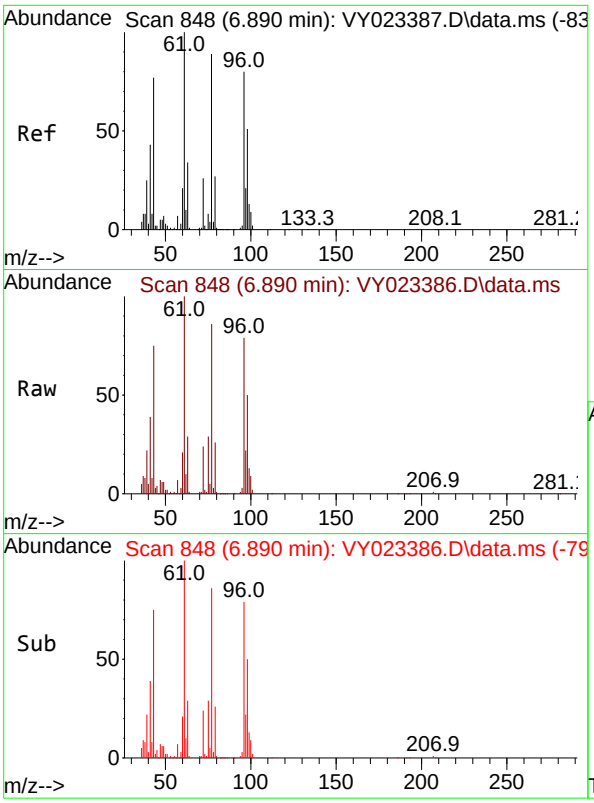


#26
2,2-Dichloropropane
Concen: 19.247 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

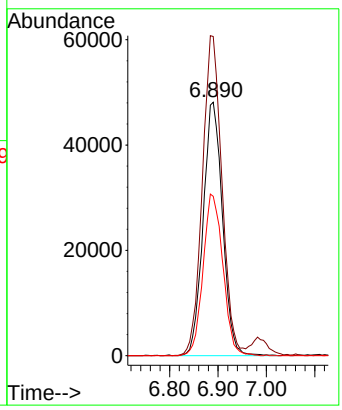
Tgt Ion: 96 Resp: 13363

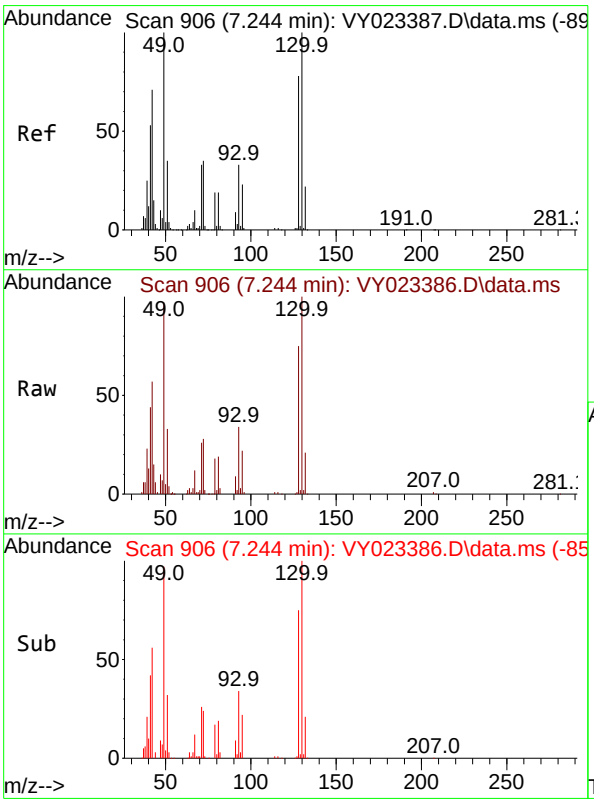
Ion	Ratio	Lower	Upper
96	100		
61	128.1	0.0	258.2
98	65.3	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

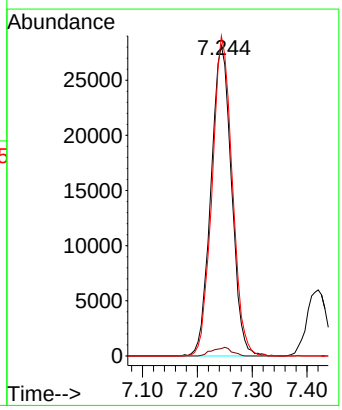


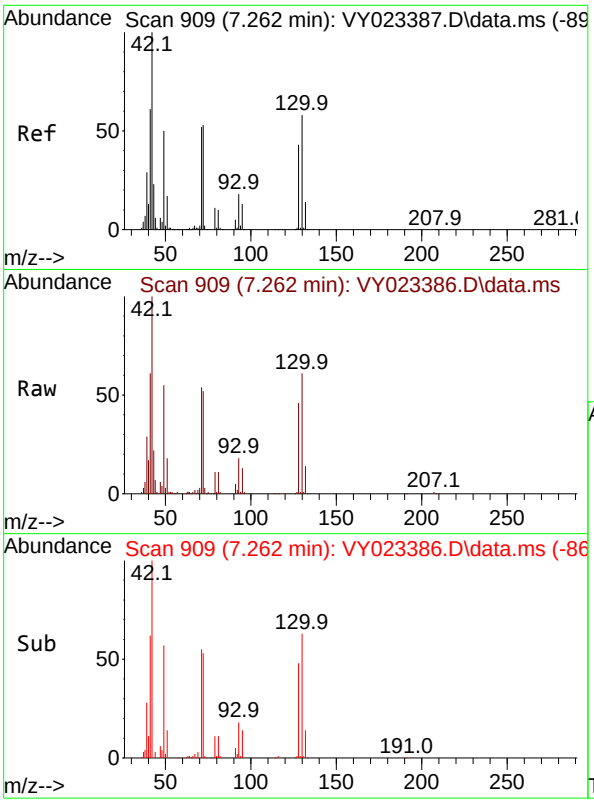


#28
Bromochloromethane
Concen: 19.273 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

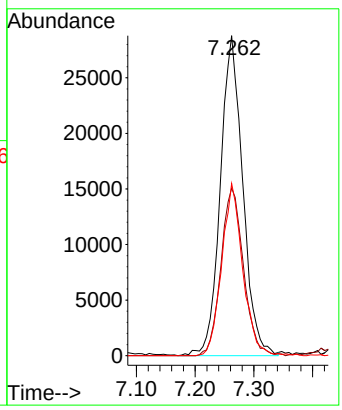




#29
Tetrahydrofuran
Concen: 93.229 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 42 Resp: 7650

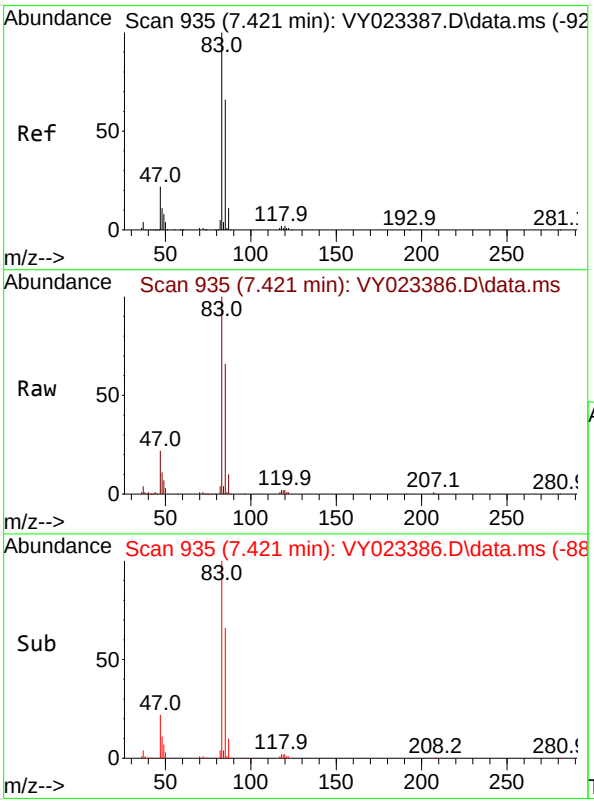
Ion	Ratio	Lower	Upper
42	100		
72	52.7	43.0	64.6
71	50.6	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

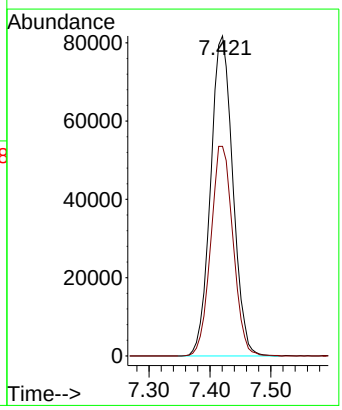
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

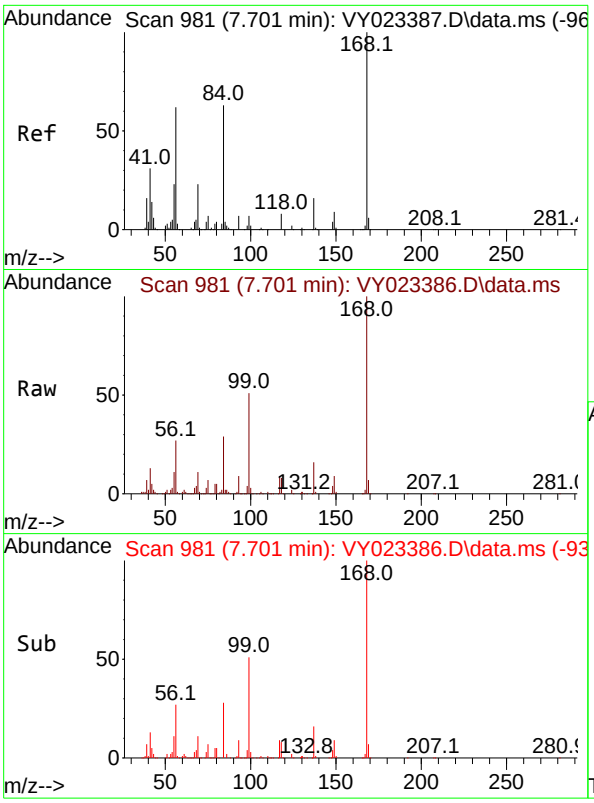


#30
Chloroform
Concen: 19.562 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 83 Resp: 207096

Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.5	78.7

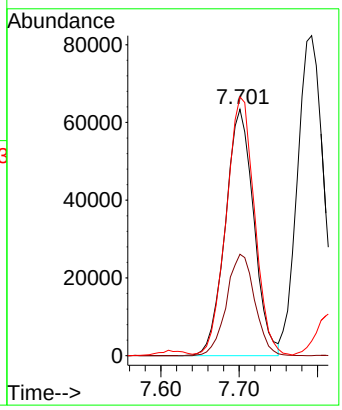




#31
Cyclohexane
Concen: 18.472 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 56 Resp: 16015

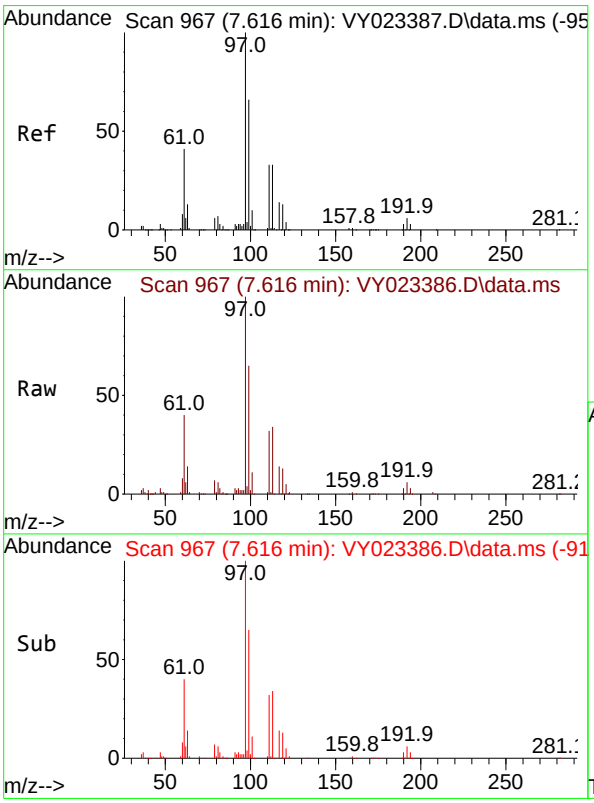
Ion	Ratio	Lower	Upper
56	100		
69	41.2	30.0	45.0
84	103.3	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

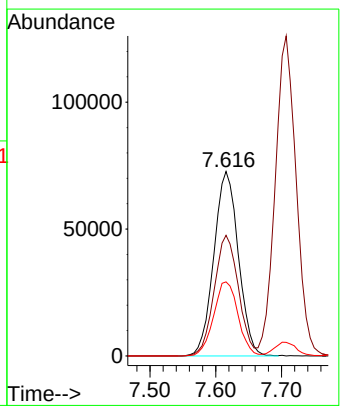
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

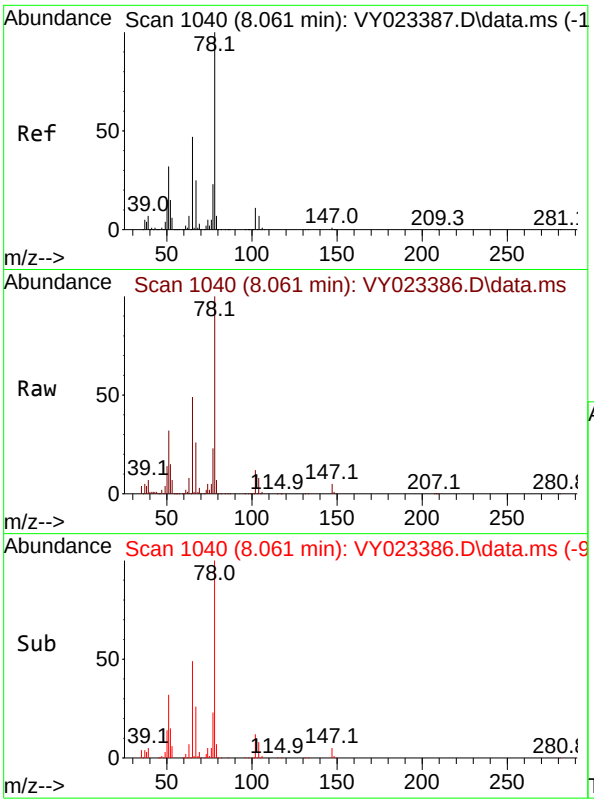


#32
1,1,1-Trichloroethane
Concen: 19.873 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

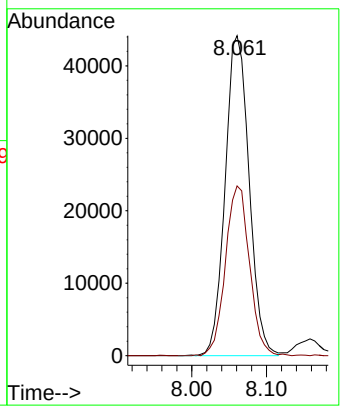




#33
1,2-Dichloroethane-d4
Concen: 19.798 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 65 Resp: 9848

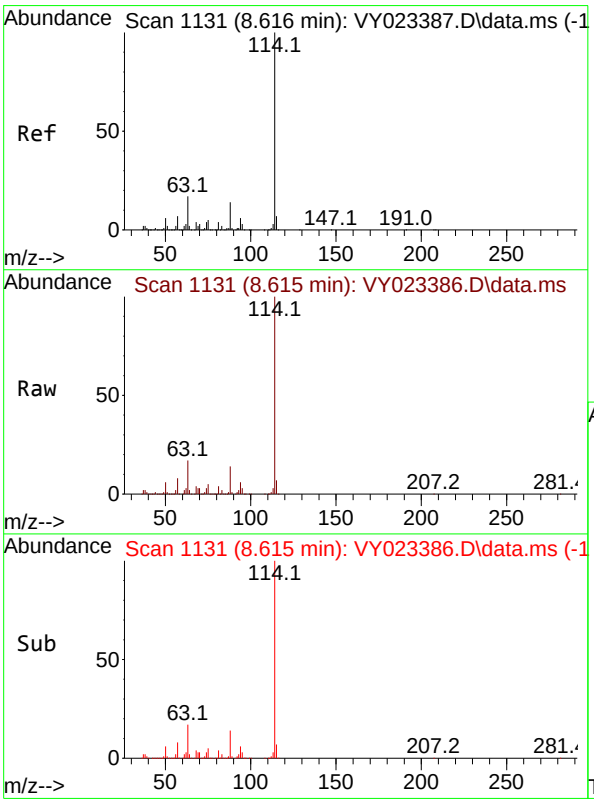
Ion	Ratio	Lower	Upper
65	100		
67	53.3	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

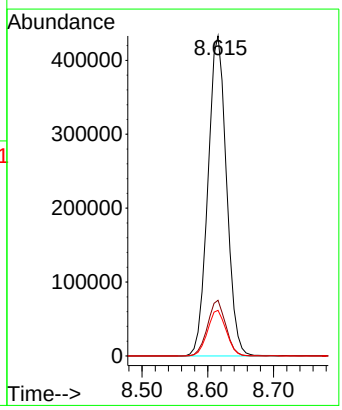
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

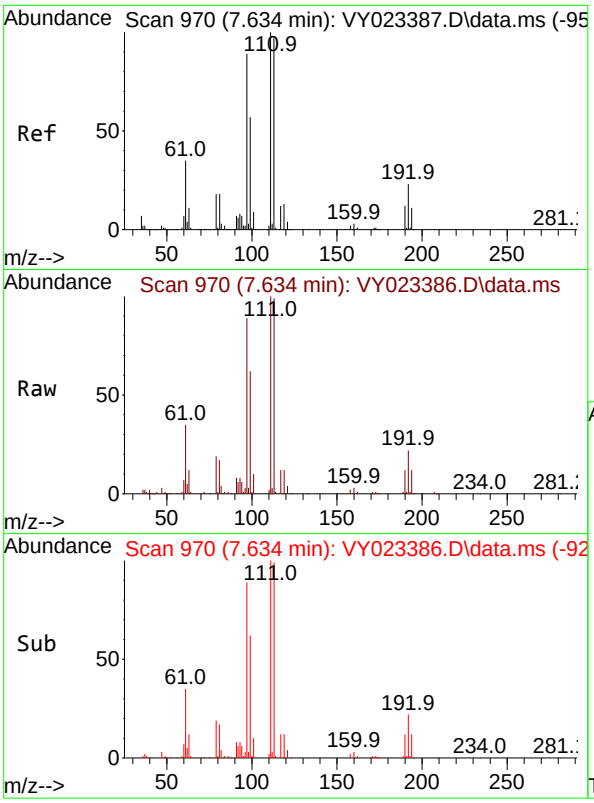


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

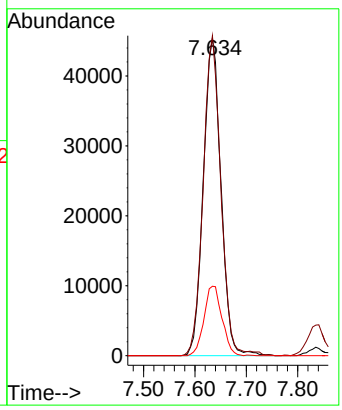




#35
Dibromofluoromethane
Concen: 20.895 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:113 Resp: 10803

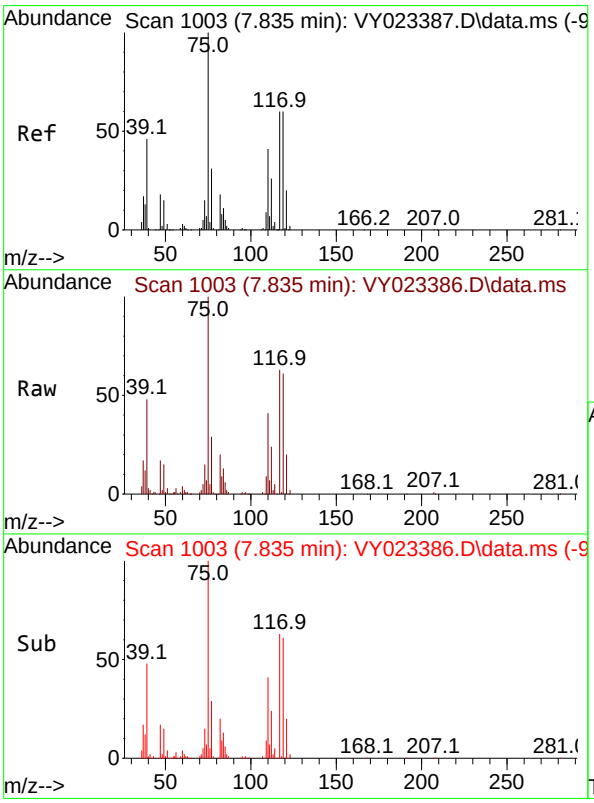
Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.8	122.6
192	22.3	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

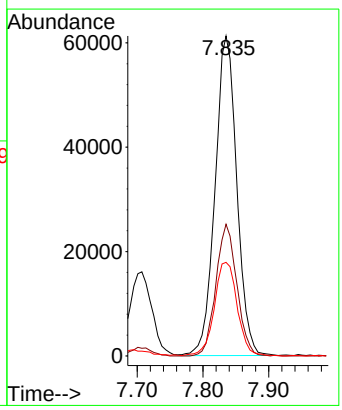
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

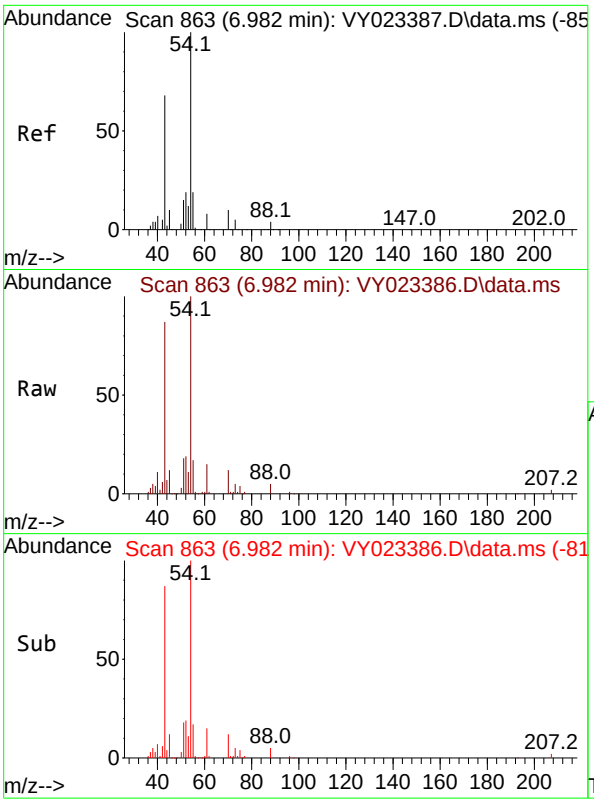


#36
1,1-Dichloropropene
Concen: 19.317 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

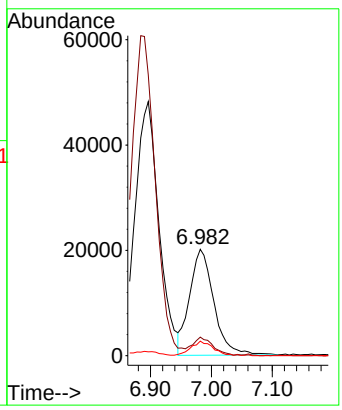




#37
Ethyl Acetate
Concen: 19.315 ug/l
RT: 6.982 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 5570

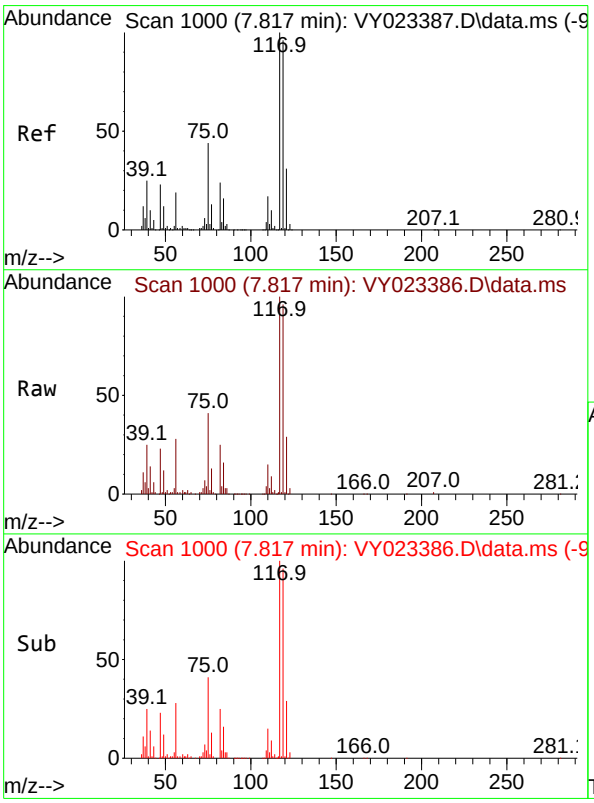
Ion	Ratio	Lower	Upper
43	100		
61	13.9	11.8	17.8
70	12.7	10.5	15.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

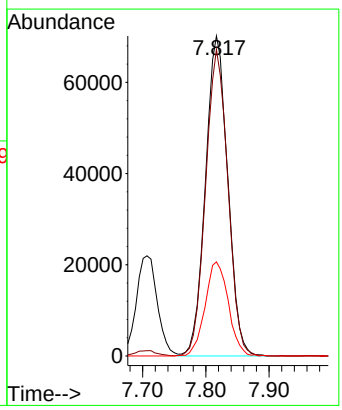
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

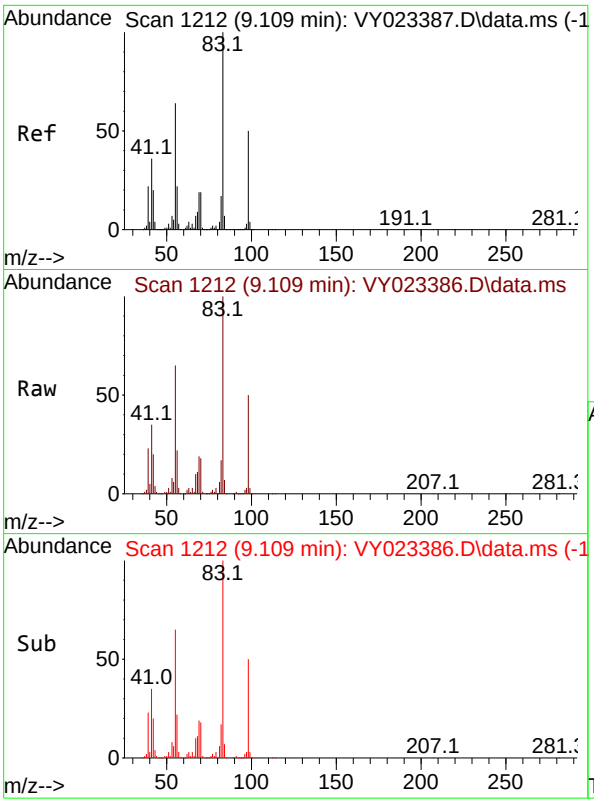


#38
Carbon Tetrachloride
Concen: 20.289 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

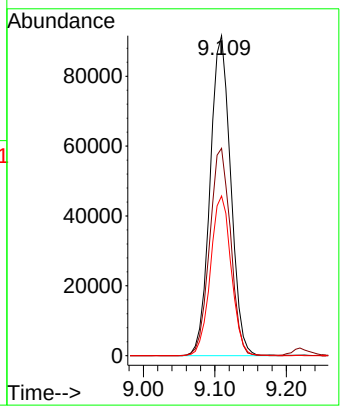




#39
Methylcyclohexane
Concen: 19.576 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 83 Resp: 18283

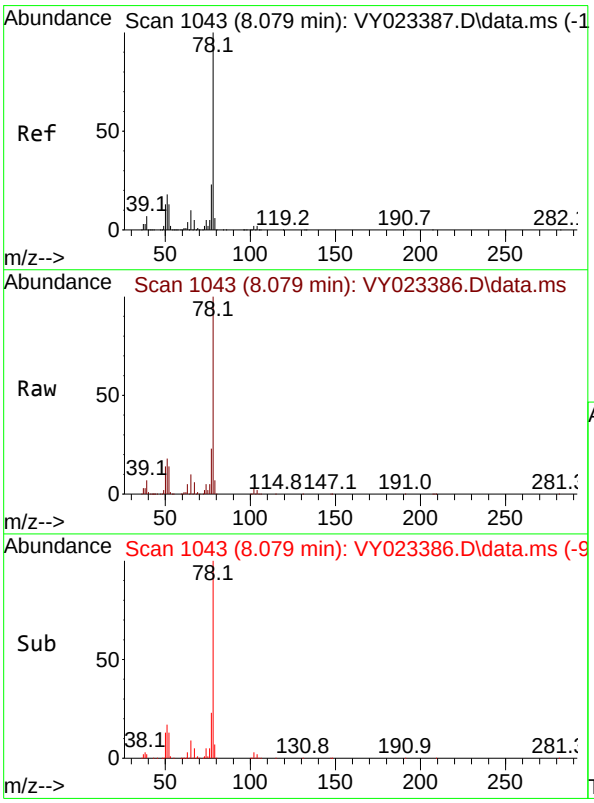
Ion	Ratio	Lower	Upper
83	100		
55	64.8	51.4	77.2
98	49.9	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

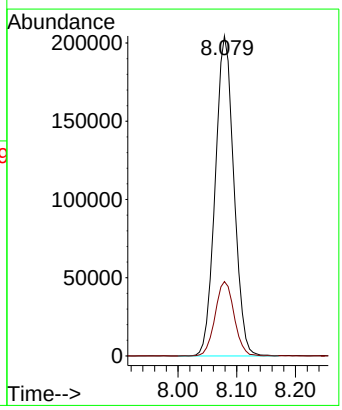
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

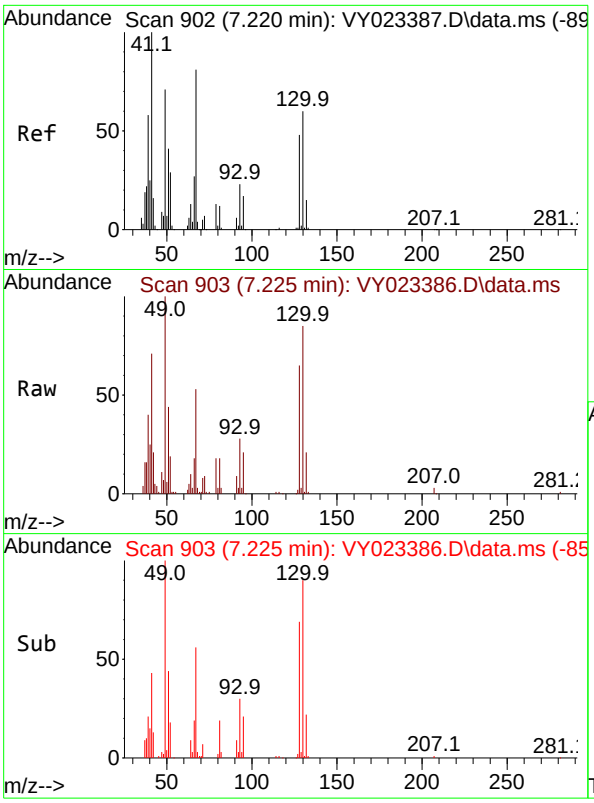


#40
Benzene
Concen: 19.809 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 78 Resp: 450471

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.3	27.5

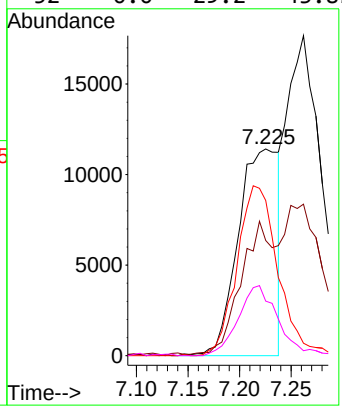




#41
Methacrylonitrile
Concen: 20.783 ug/l m
RT: 7.225 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 41 Resp: 3112

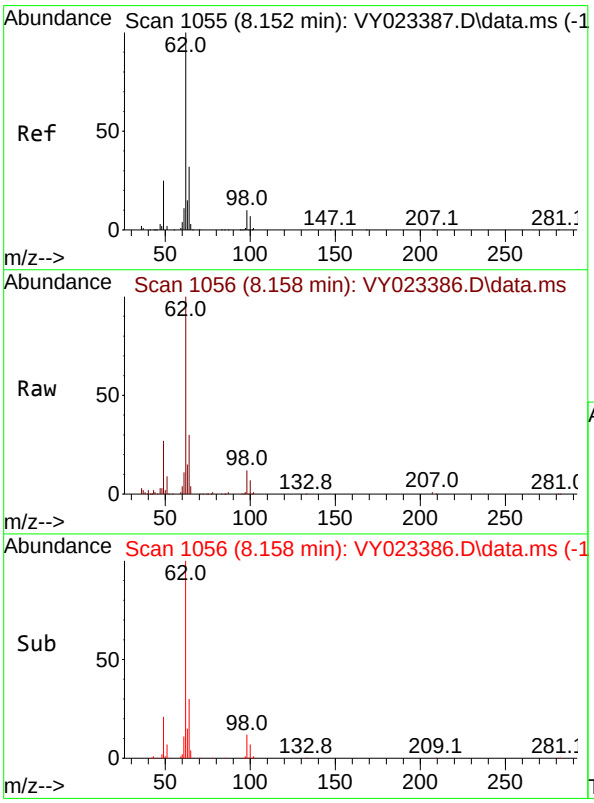
Ion	Ratio	Lower	Upper
41	100		
39	68.6	52.2	78.4
67	0.0	74.9	112.3#
52	0.0	29.2	43.8#



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

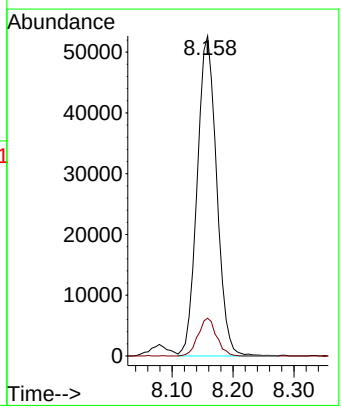
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

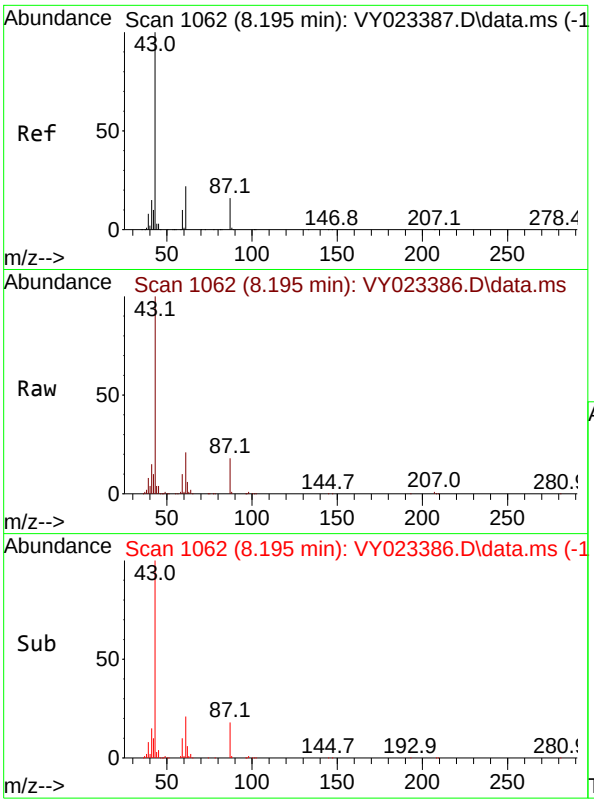


#42
1,2-Dichloroethane
Concen: 20.206 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 62 Resp: 116941

Ion	Ratio	Lower	Upper
62	100		
98	11.2	0.0	21.6

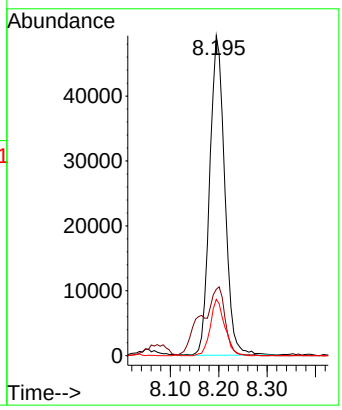




#43
Isopropyl Acetate
Concen: 19.002 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 10659

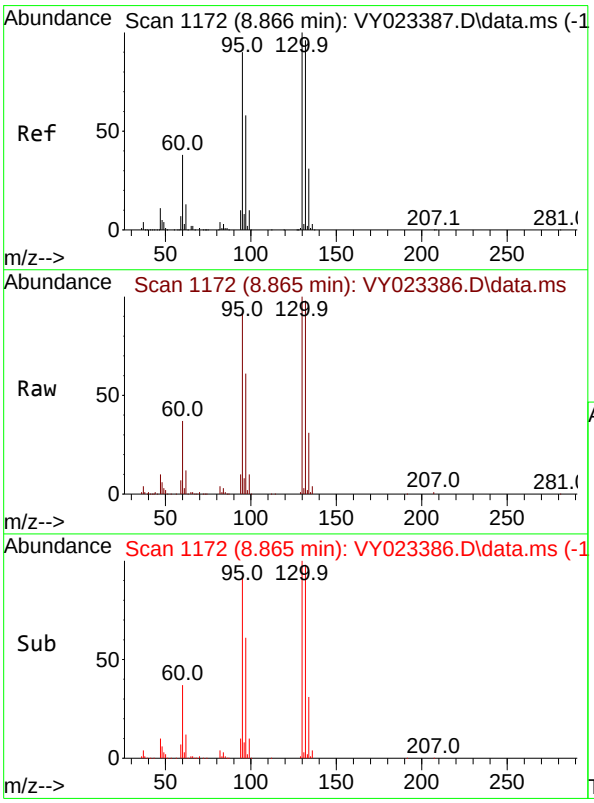
Ion	Ratio	Lower	Upper
43	100		
61	33.1	18.1	27.1
87	16.9	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

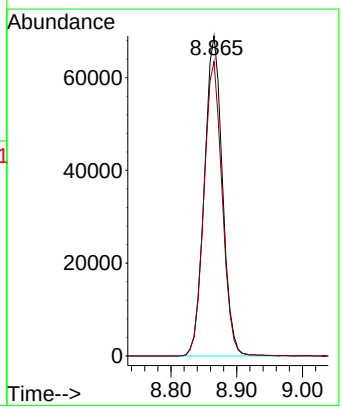
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

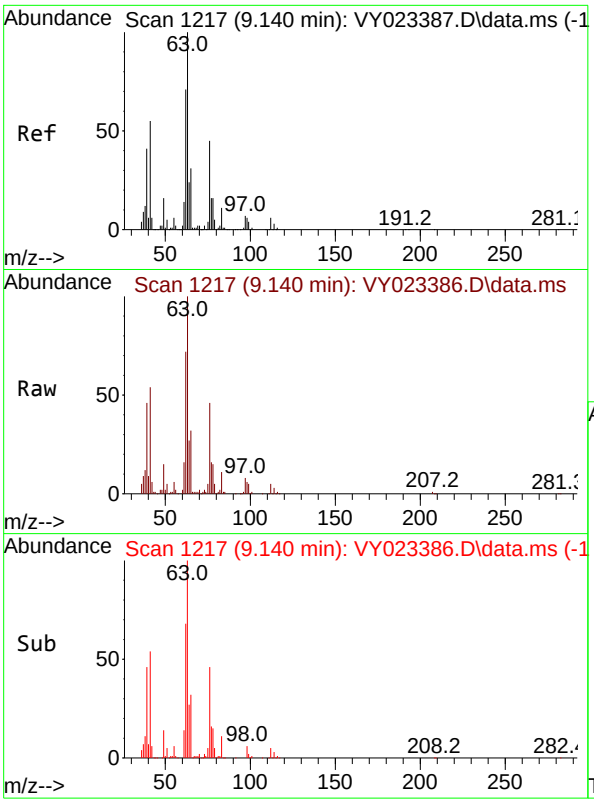


#44
Trichloroethene
Concen: 20.598 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:130 Resp: 131459

Ion	Ratio	Lower	Upper
130	100		
95	92.0	0.0	180.6

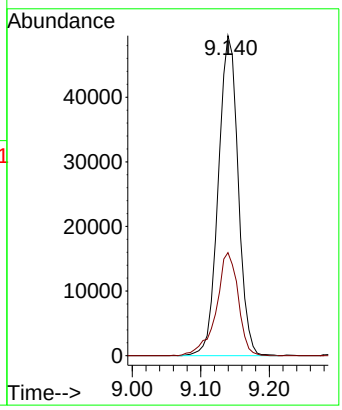




#45
1,2-Dichloropropane
Concen: 19.417 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 63 Resp: 9936

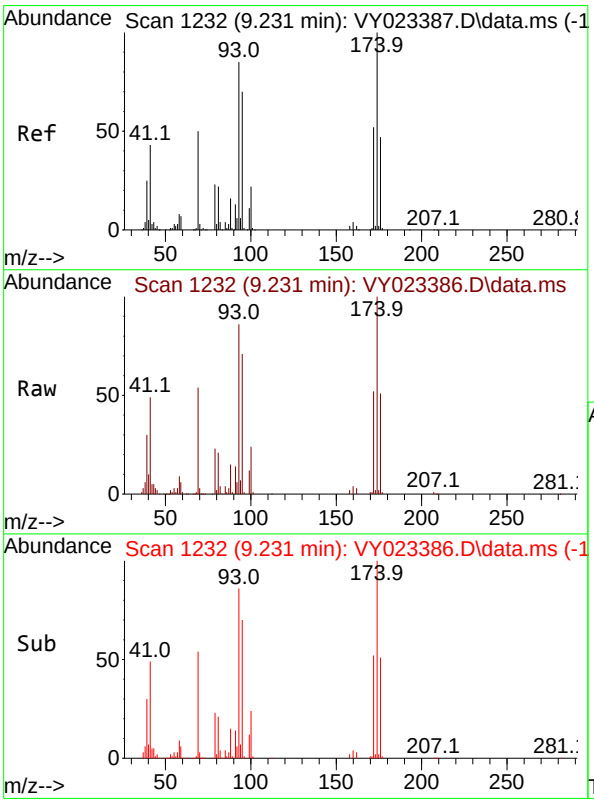
Ion	Ratio	Lower	Upper
63	100		
65	32.2	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

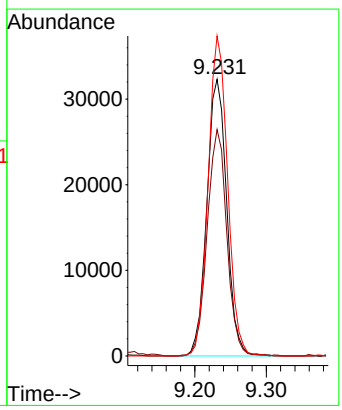
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

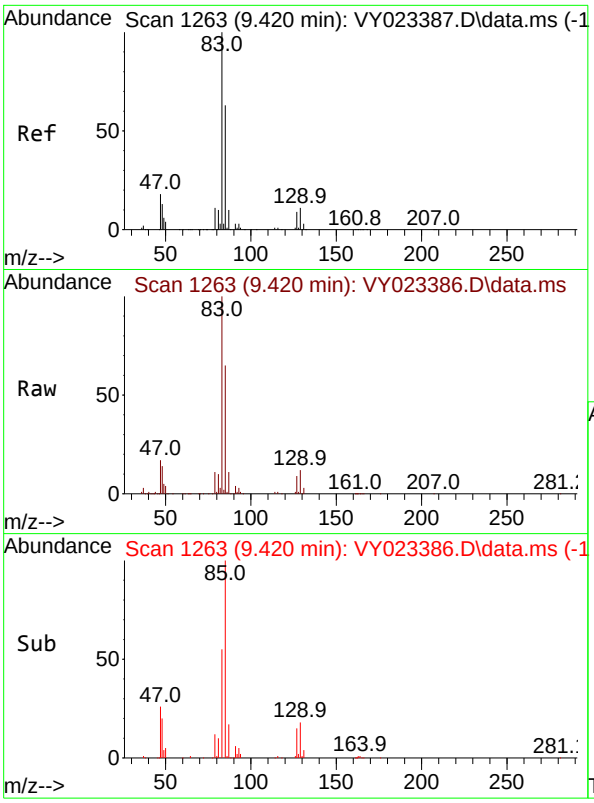


#46
Dibromomethane
Concen: 19.896 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

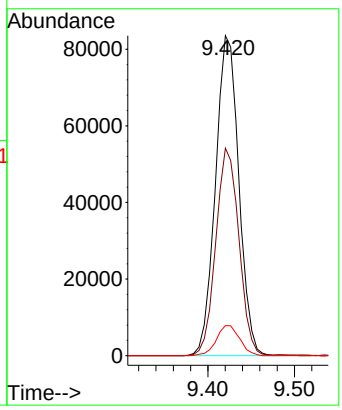




#47
Bromodichloromethane
Concen: 19.854 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 83 Resp: 15642

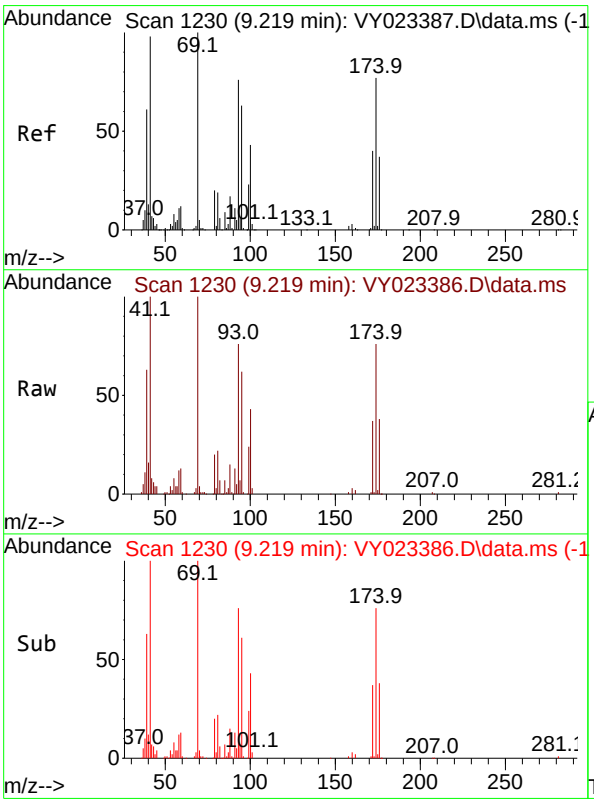
Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.8	76.2
127	9.4	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

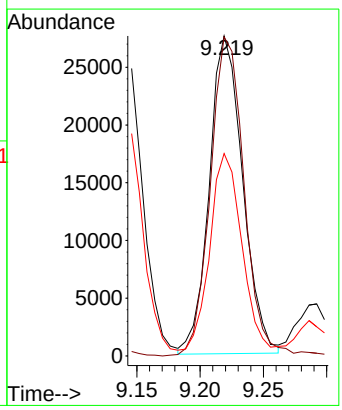
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

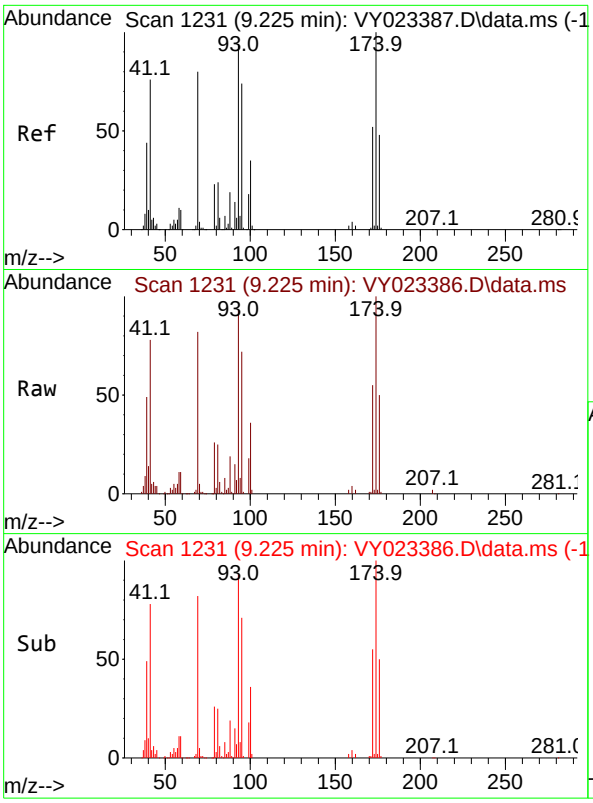


#48
Methyl methacrylate
Concen: 19.352 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

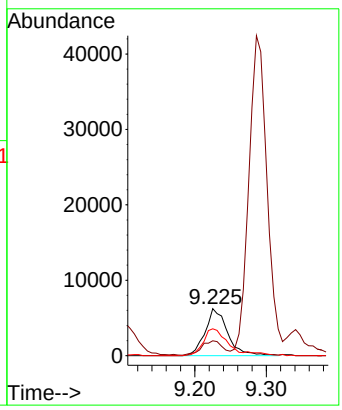




#49
1,4-Dioxane
Concen: 420.712 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 88 Resp: 1363

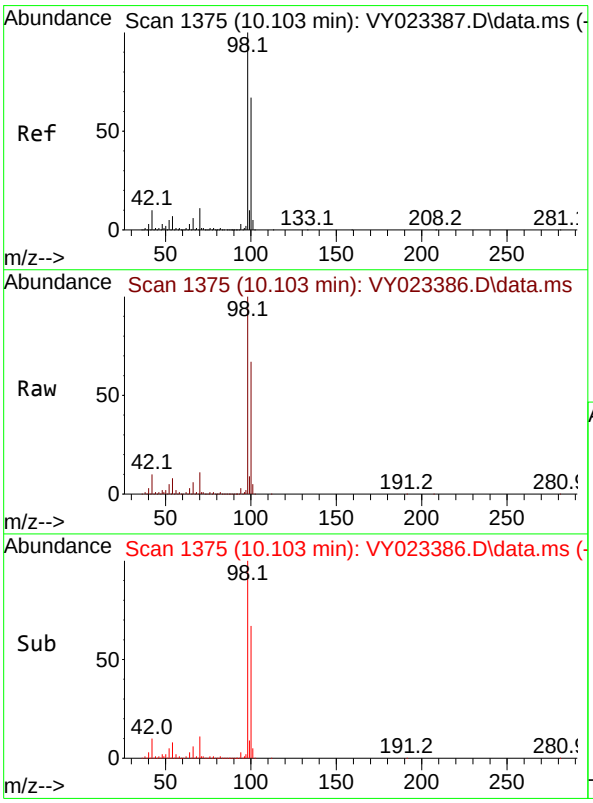
Ion	Ratio	Lower	Upper
88	100		
43	28.9	21.8	32.8
58	58.1	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

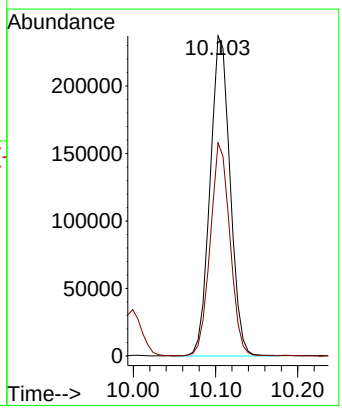
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

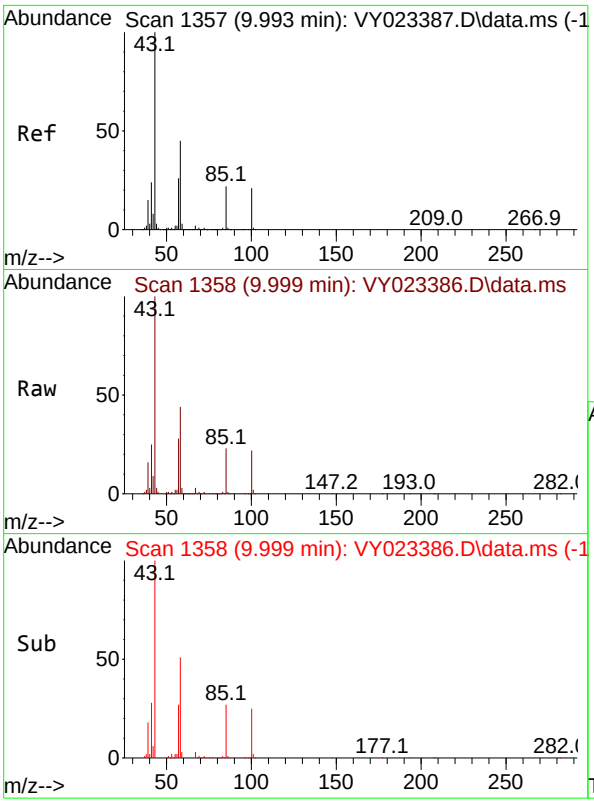


#50
Toluene-d8
Concen: 20.568 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 98 Resp: 401067

Ion	Ratio	Lower	Upper
98	100		
100	65.3	53.0	79.4

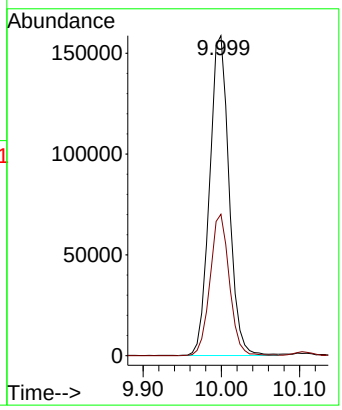




#51
4-Methyl-2-Pentanone
Concen: 95.378 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 27405

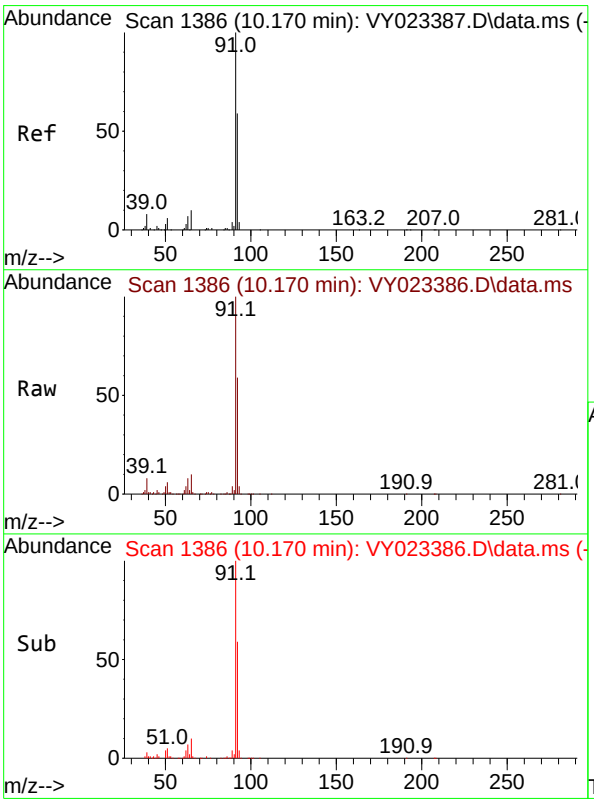
Ion	Ratio	Lower	Upper
43	100		
58	43.8	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

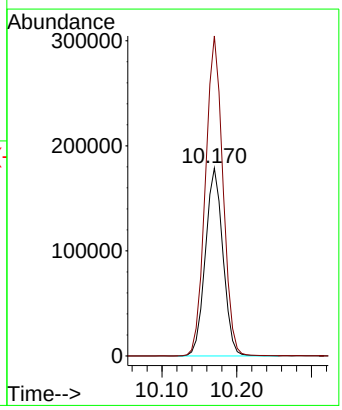
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

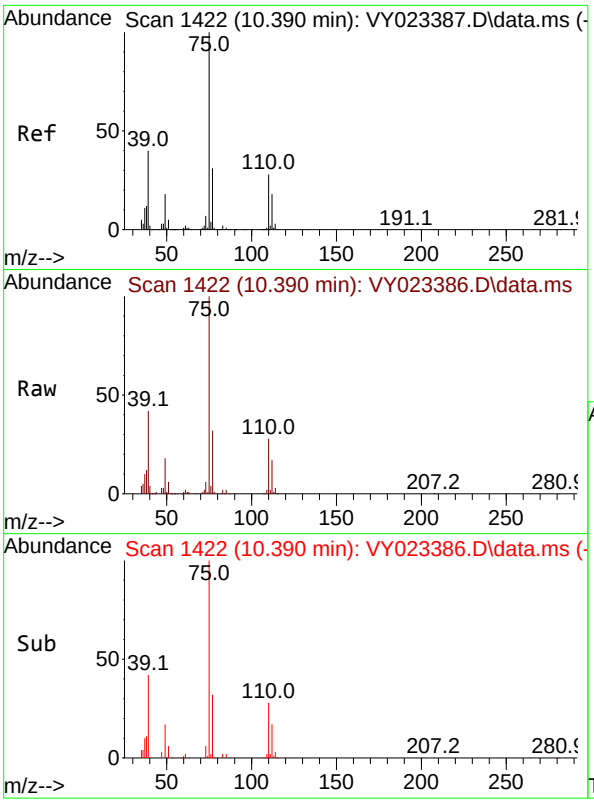


#52
Toluene
Concen: 20.191 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 92 Resp: 291453

Ion	Ratio	Lower	Upper
92	100		
91	170.0	136.4	204.6

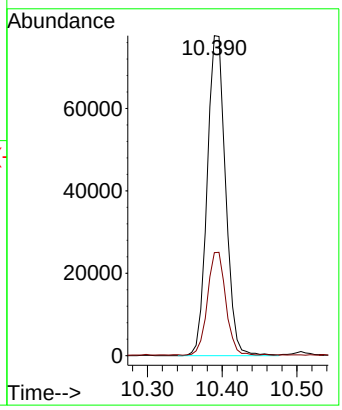




#53
t-1,3-Dichloropropene
Concen: 19.632 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 13284

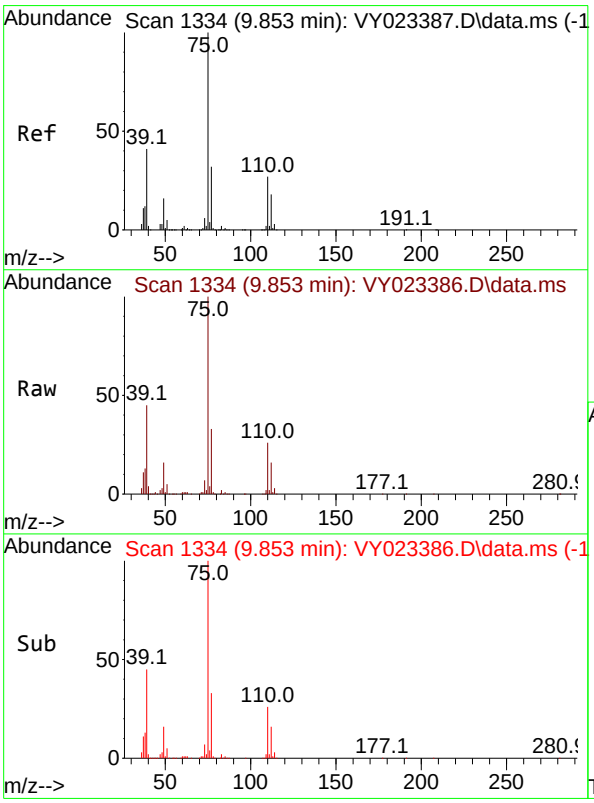
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

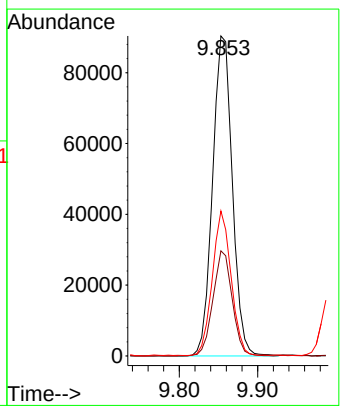
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

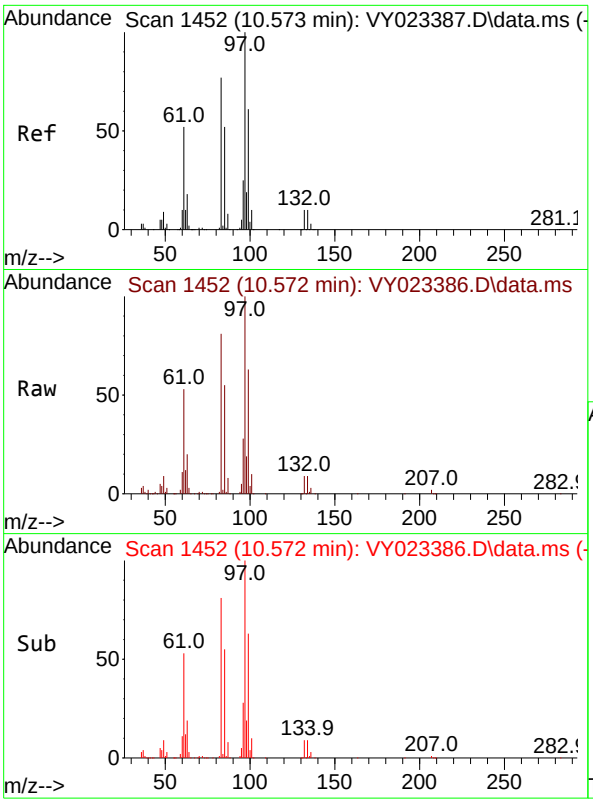


#54
cis-1,3-Dichloropropene
Concen: 19.606 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

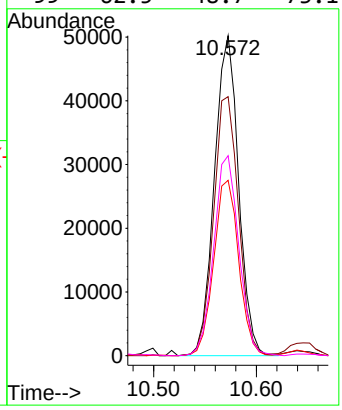




#55
1,1,2-Trichloroethane
Concen: 19.740 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 97 Resp: 8218

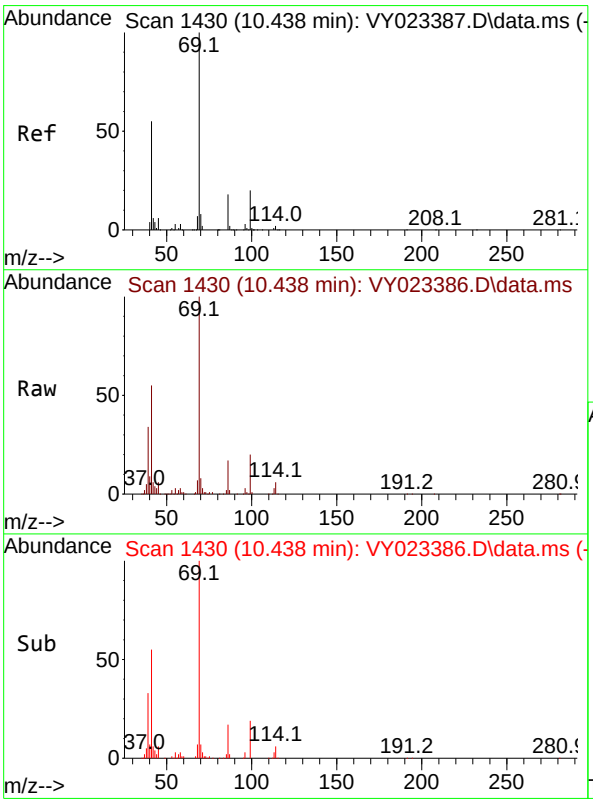
Ion	Ratio	Lower	Upper
97	100		
83	80.9	61.8	92.6
85	54.8	41.3	61.9
99	62.5	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

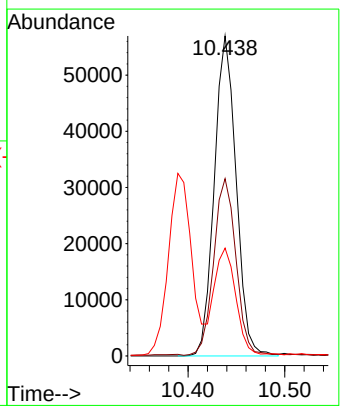
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

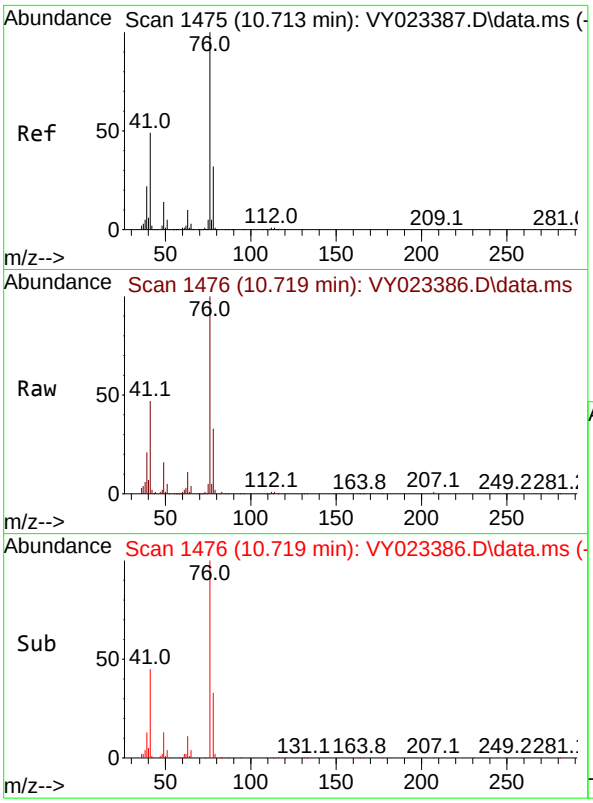


#56
Ethyl methacrylate
Concen: 18.613 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

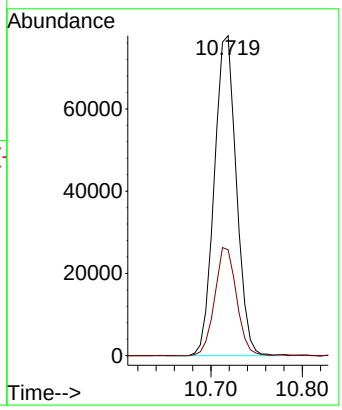




#57
1,3-Dichloropropane
Concen: 19.389 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 76 Resp: 13065(

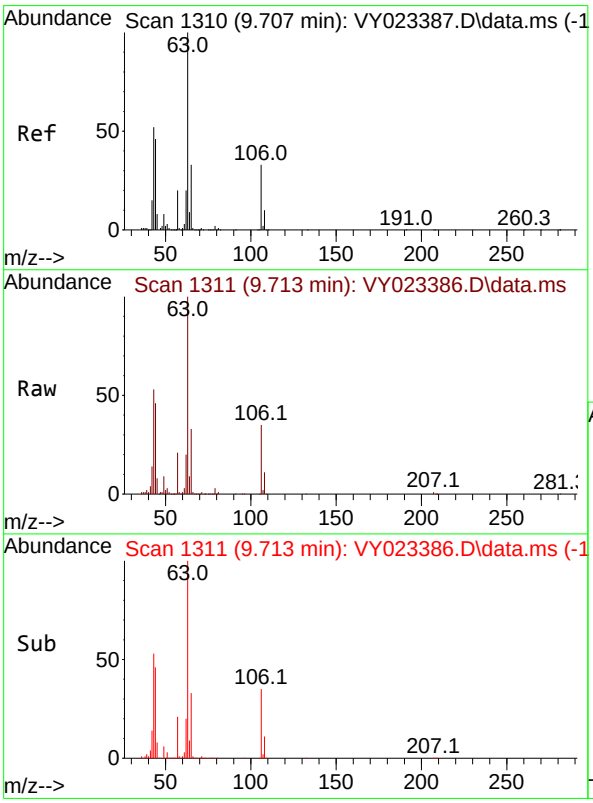
Ion	Ratio	Lower	Upper
76	100		
78	33.5	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

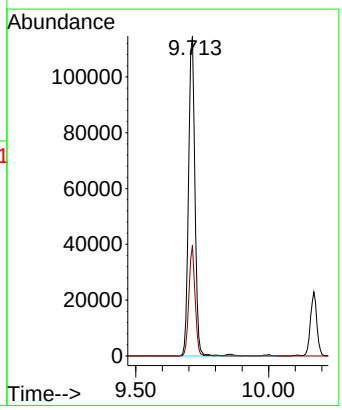
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

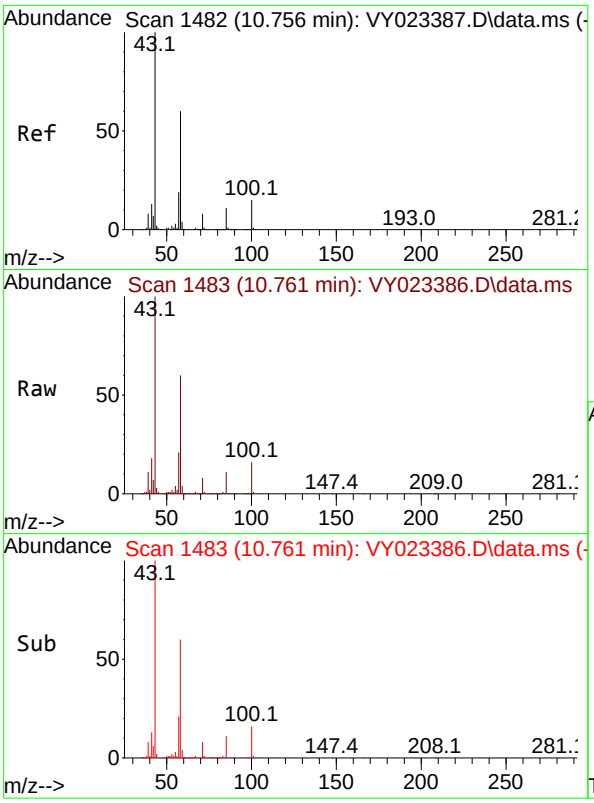


#58
2-Chloroethyl Vinyl ether
Concen: 90.982 ug/l m
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 63 Resp: 190850

Ion	Ratio	Lower	Upper
63	100		
106	32.9	26.6	39.8

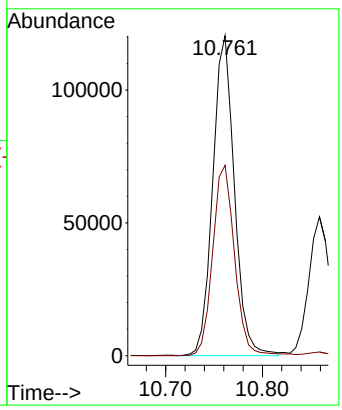




#59
2-Hexanone
Concen: 94.190 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 43 Resp: 18738

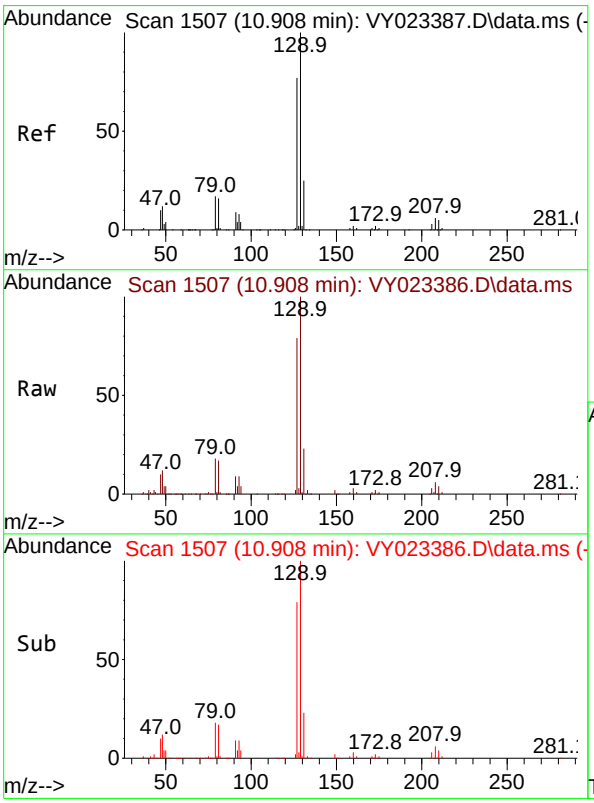
Ion	Ratio	Lower	Upper
43	100		
58	60.2	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

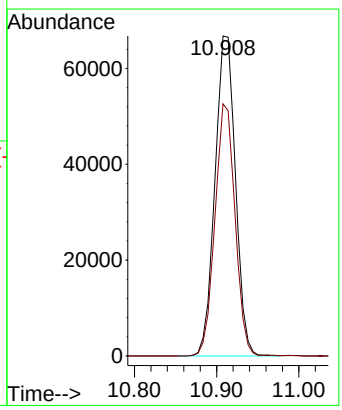
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

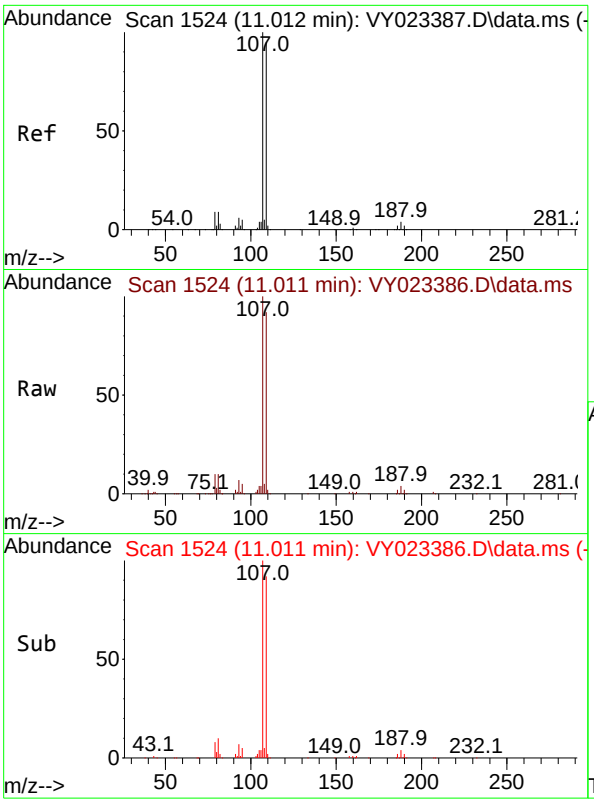


#60
Dibromochloromethane
Concen: 20.412 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:129 Resp: 115907

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.7

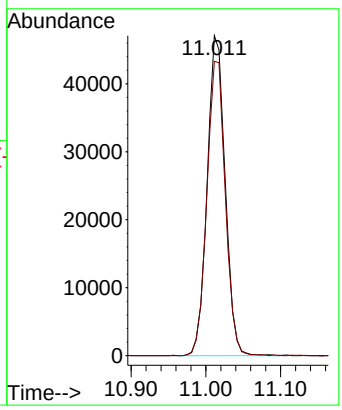




#61
1,2-Dibromoethane
Concen: 20.062 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:107 Resp: 7857

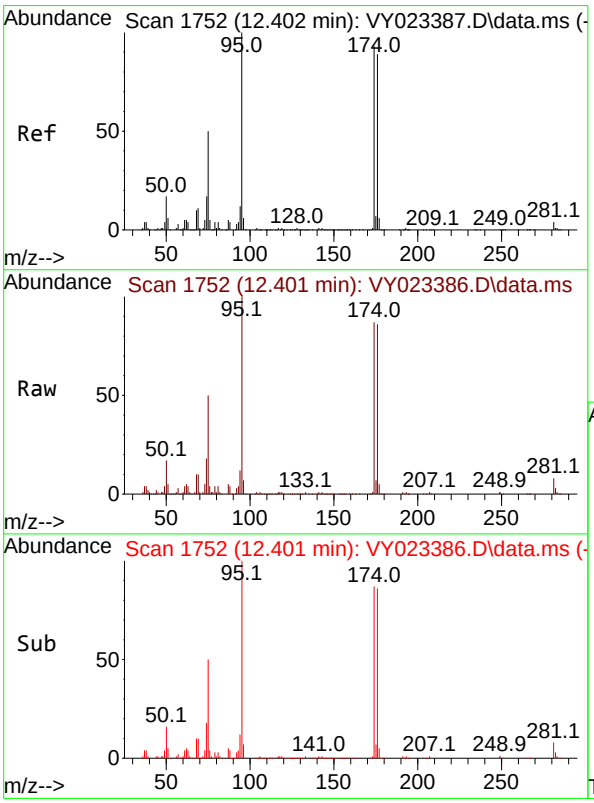
Ion	Ratio	Lower	Upper
107	100		
109	94.7	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

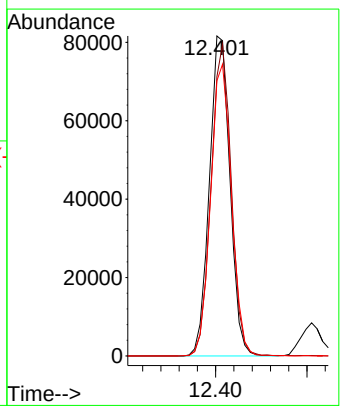
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

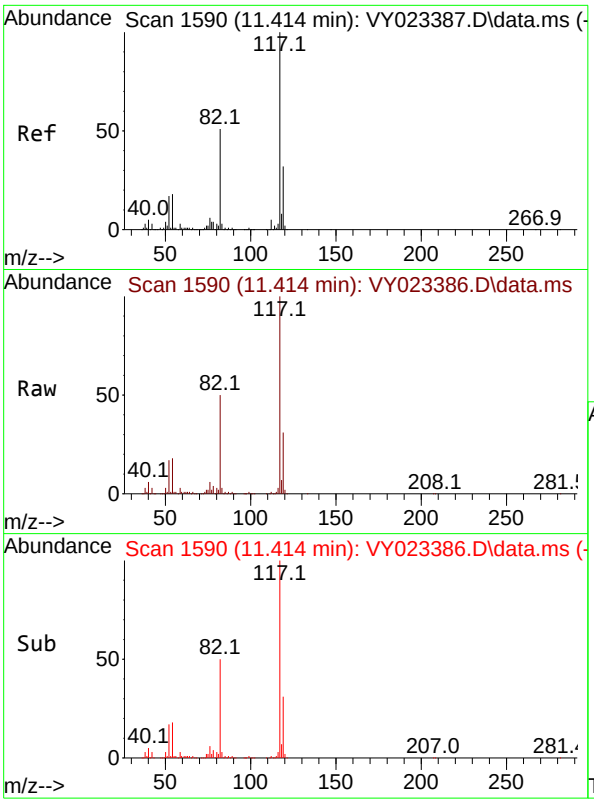


#62
4-Bromofluorobenzene
Concen: 20.680 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

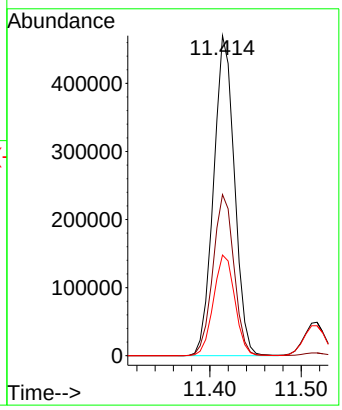




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:117 Resp: 74687

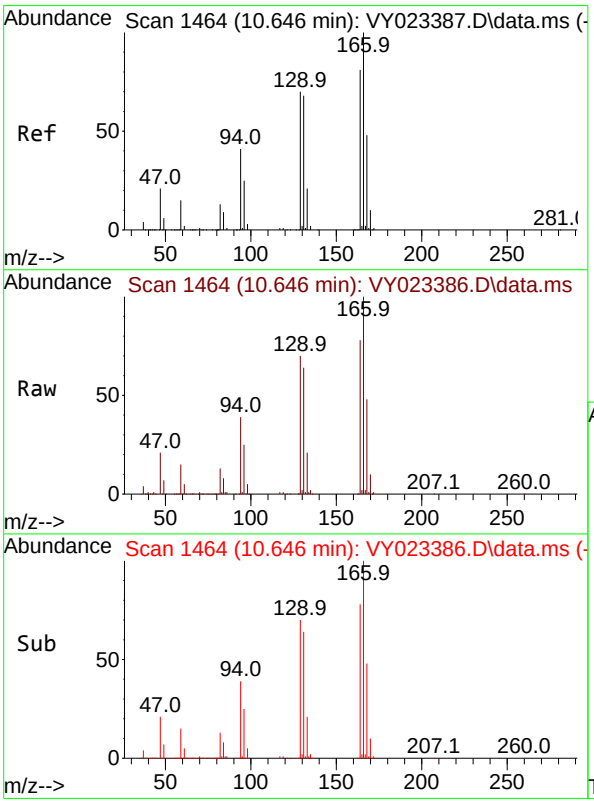
Ion	Ratio	Lower	Upper
117	100		
82	50.3	41.0	61.4
119	31.4	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

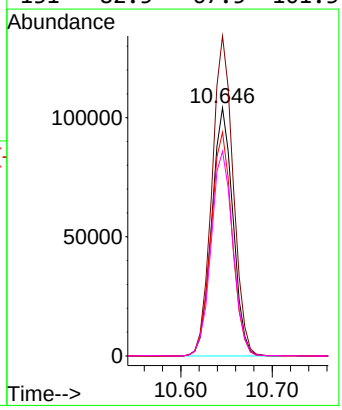
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

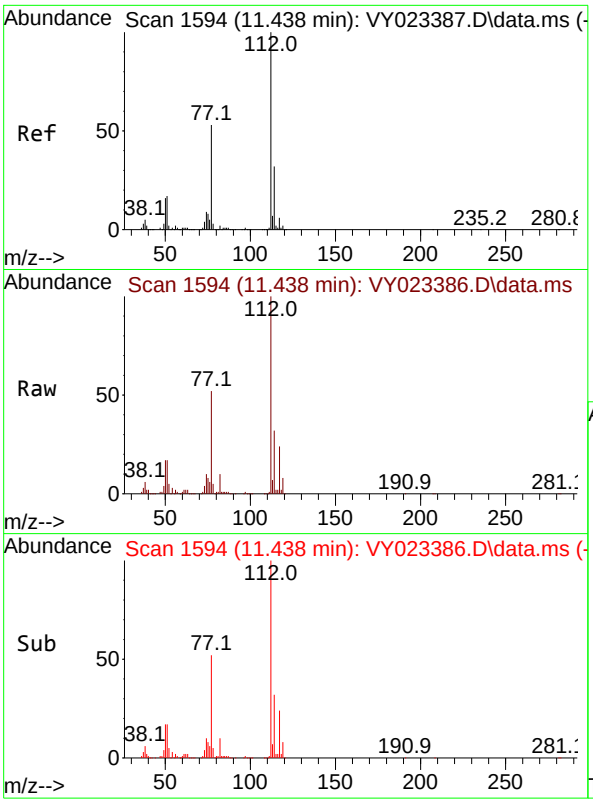


#64
Tetrachloroethene
Concen: 22.438 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

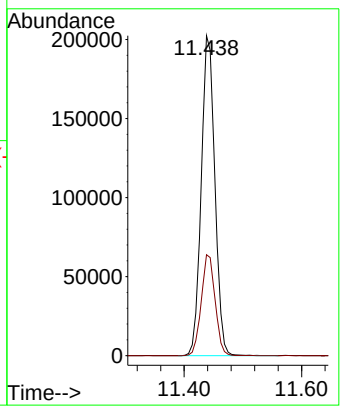




#65
Chlorobenzene
Concen: 20.109 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:112 Resp: 32636

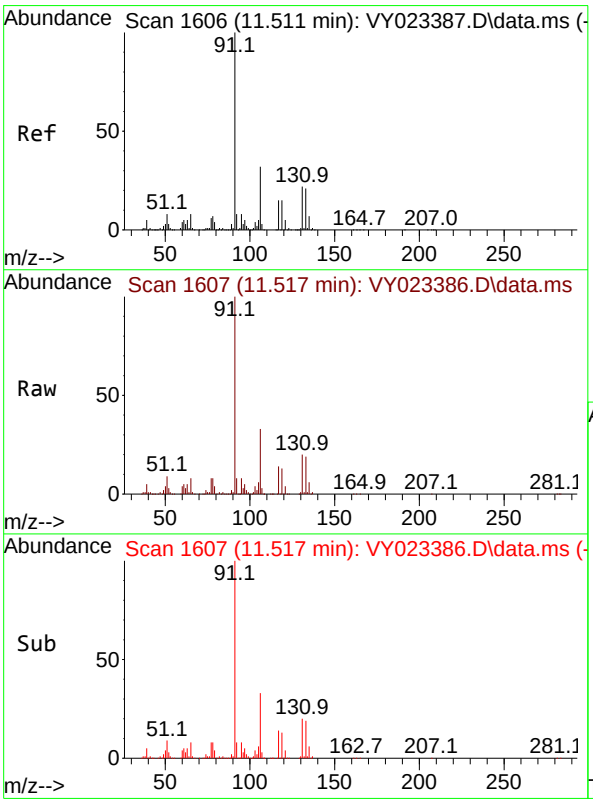
Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

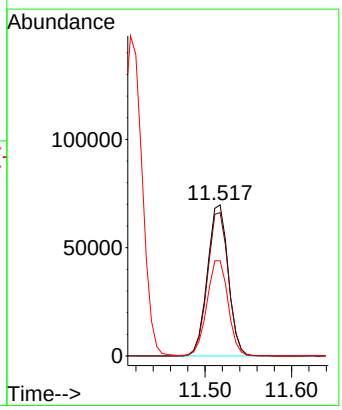
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

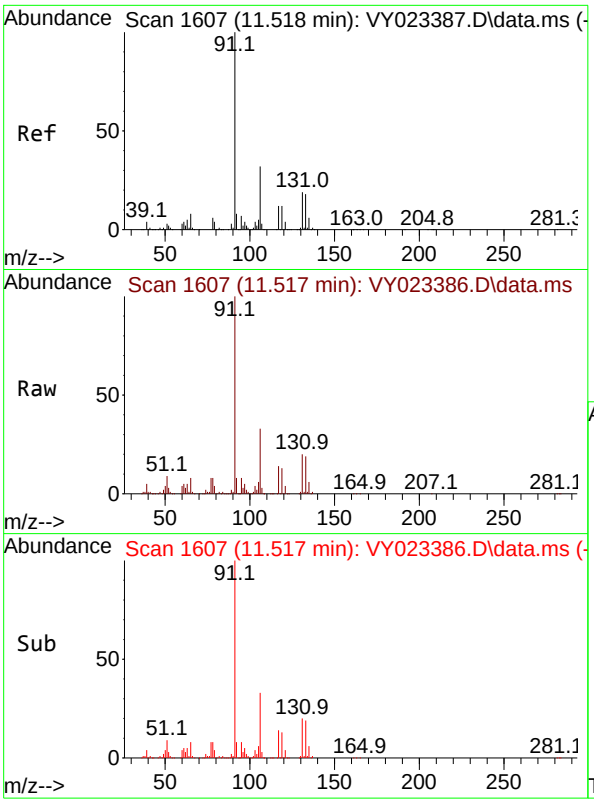


#66
1,1,1,2-Tetrachloroethane
Concen: 20.396 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

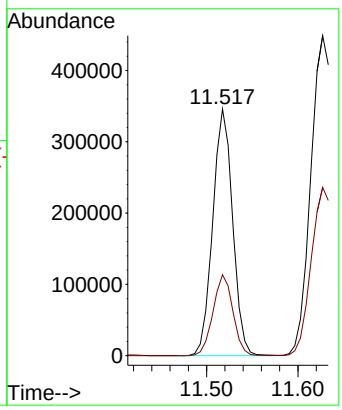




#67
Ethyl Benzene
Concen: 19.768 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 52360

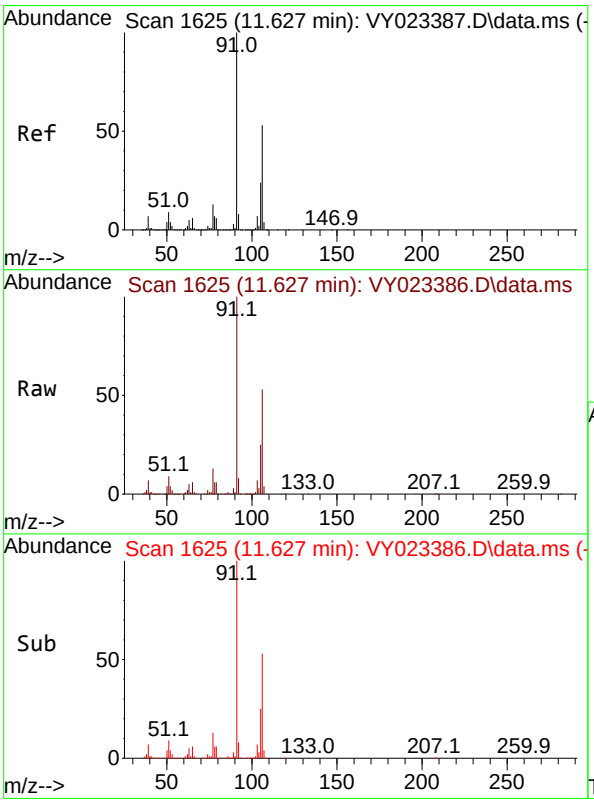
Ion	Ratio	Lower	Upper
91	100		
106	32.8	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

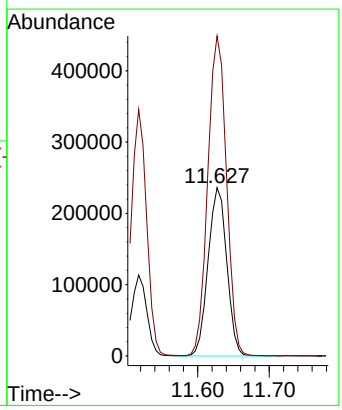
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

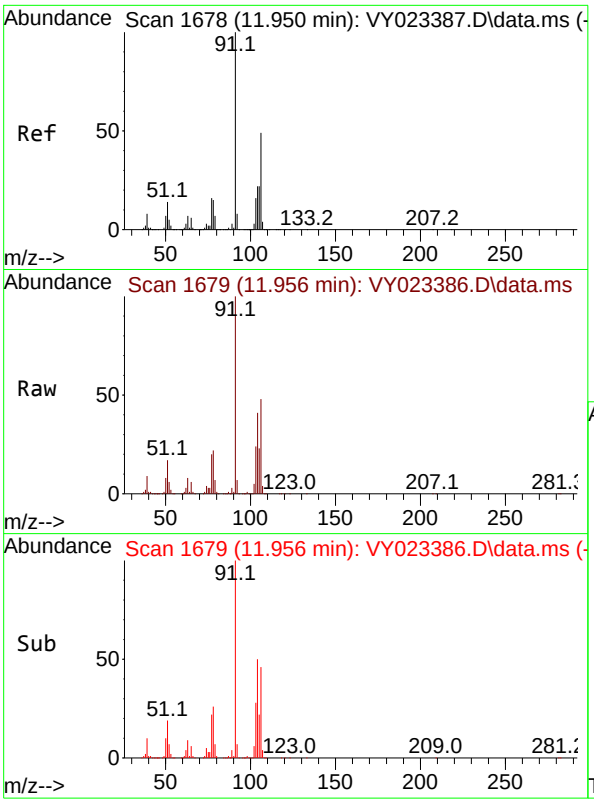


#68
m/p-Xylenes
Concen: 40.211 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:106 Resp: 426913

Ion	Ratio	Lower	Upper
106	100		
91	190.8	152.6	229.0

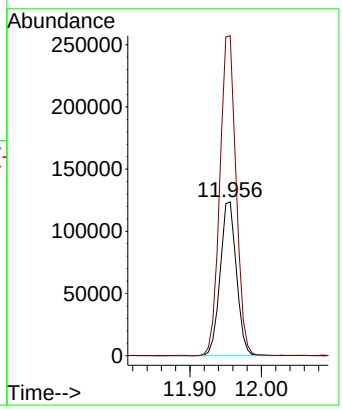




#69
o-Xylene
Concen: 19.843 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:106 Resp: 19502

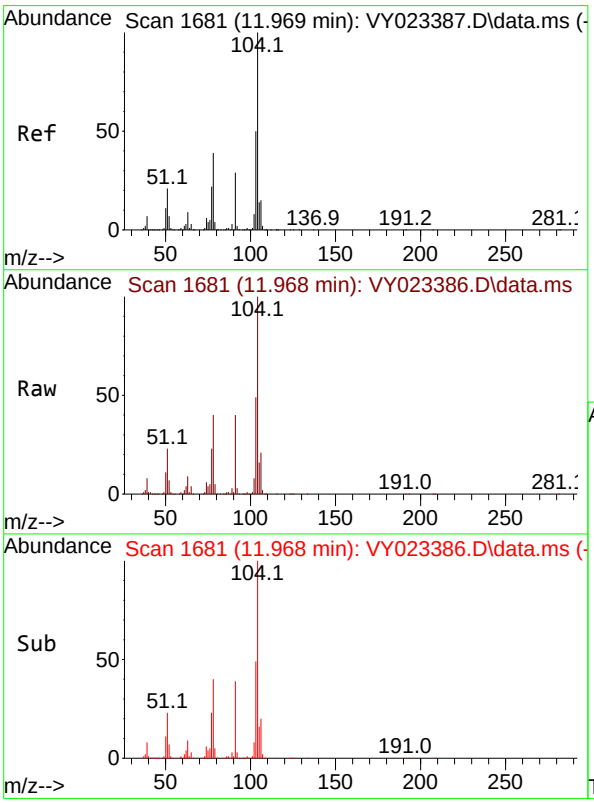
Ion	Ratio	Lower	Upper
106	100		
91	208.5	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

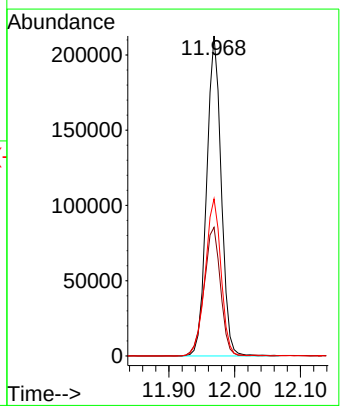
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

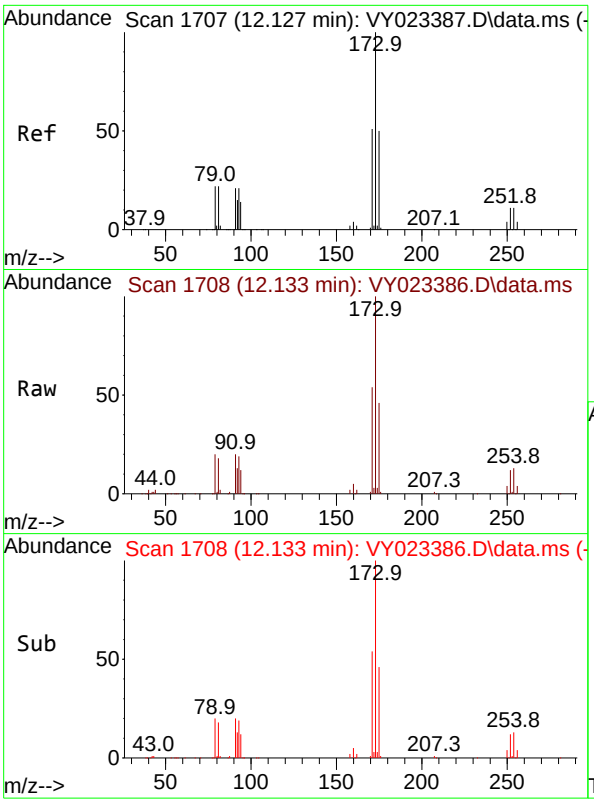


#70
Styrene
Concen: 20.208 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

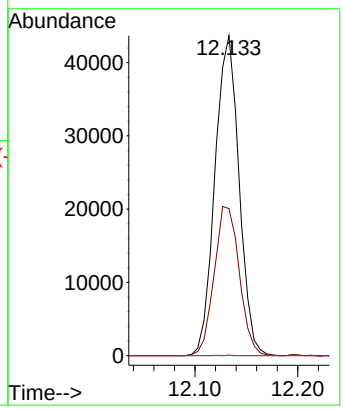




#71
Bromoform
Concen: 20.814 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:173 Resp: 7111

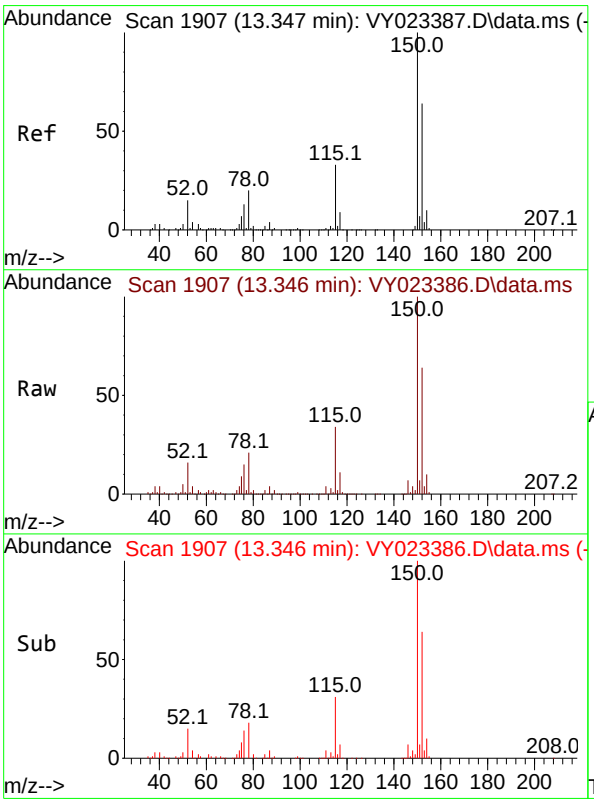
Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.8	74.3
254	0.0	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

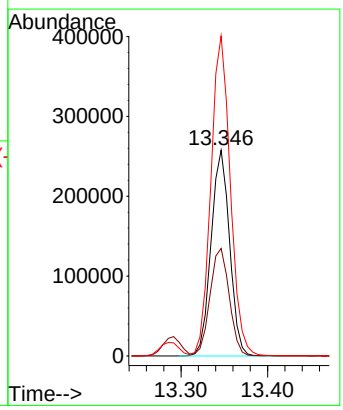
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

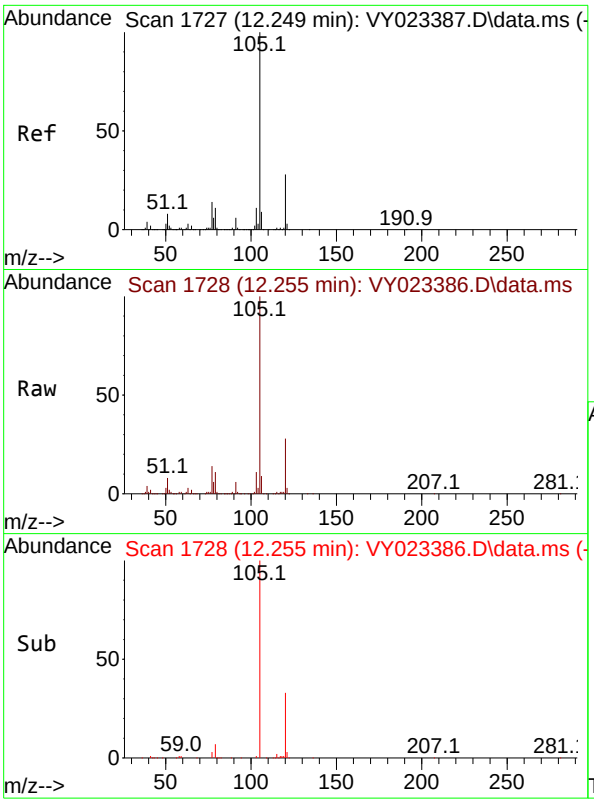


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

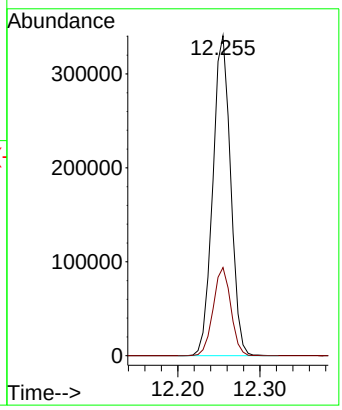




#73
Isopropylbenzene
Concen: 20.136 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:105 Resp: 51318

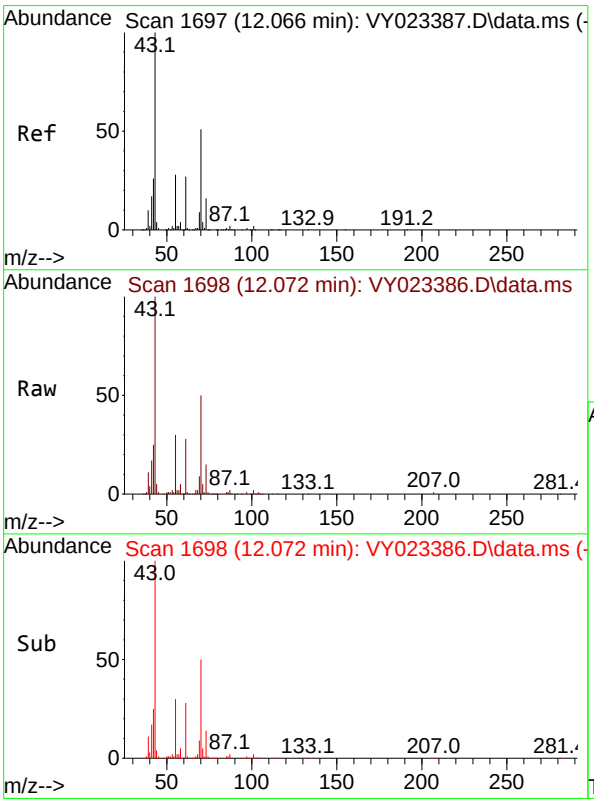
Ion	Ratio	Lower	Upper
105	100		
120	27.2	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

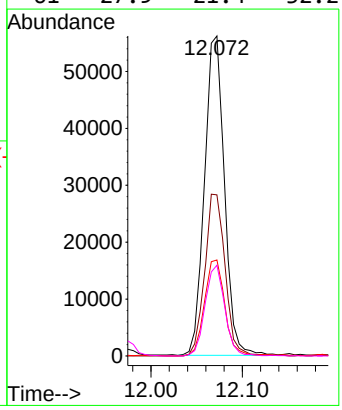
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

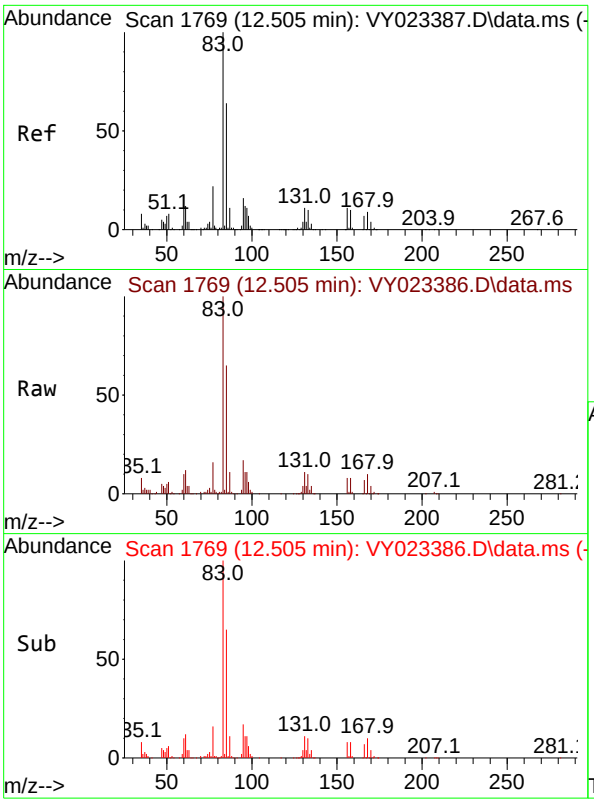


#74
N-amyl acetate
Concen: 17.860 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

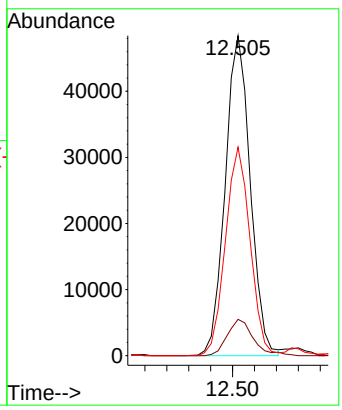




#75
1,1,2,2-Tetrachloroethane
Concen: 18.069 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 83 Resp: 7682

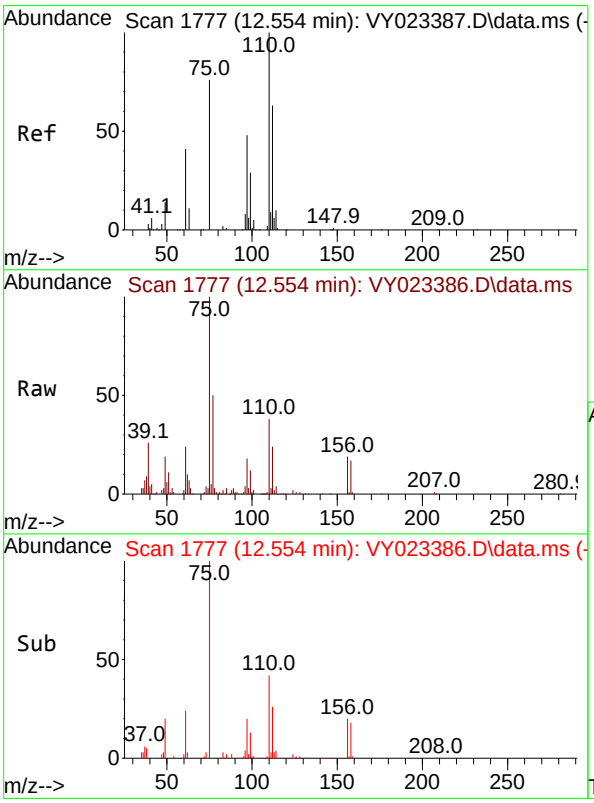
Ion	Ratio	Lower	Upper
83	100		
131	11.8	5.9	17.6
85	64.1	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

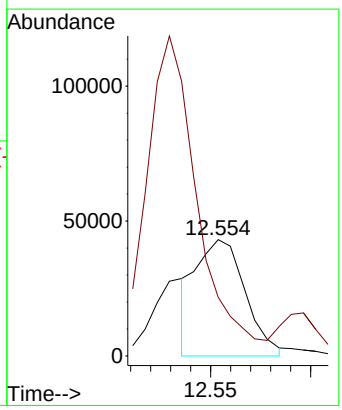
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

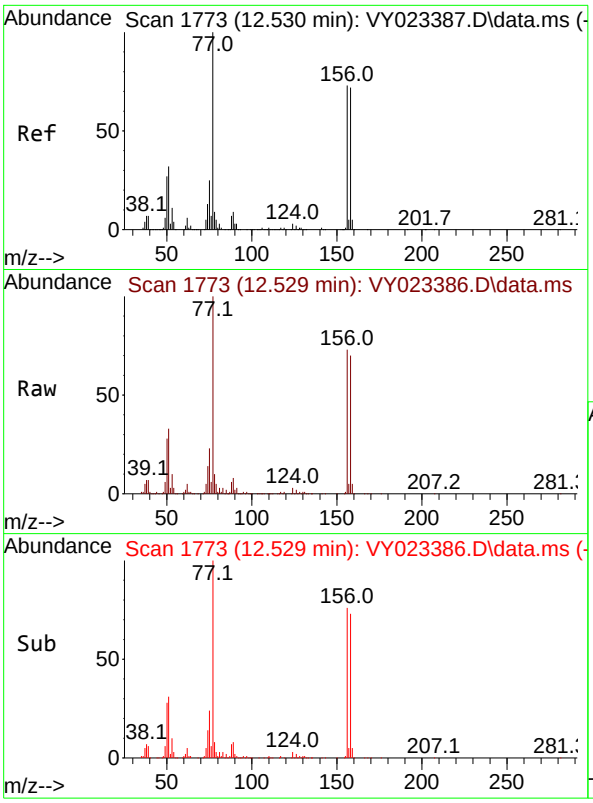


#76
1,2,3-Trichloropropane
Concen: 19.634 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 75 Resp: 74100

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

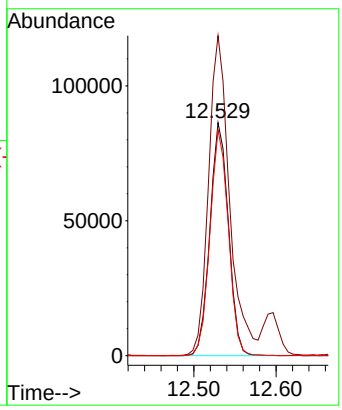




#77
Bromobenzene
Concen: 20.700 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:156 Resp: 13540

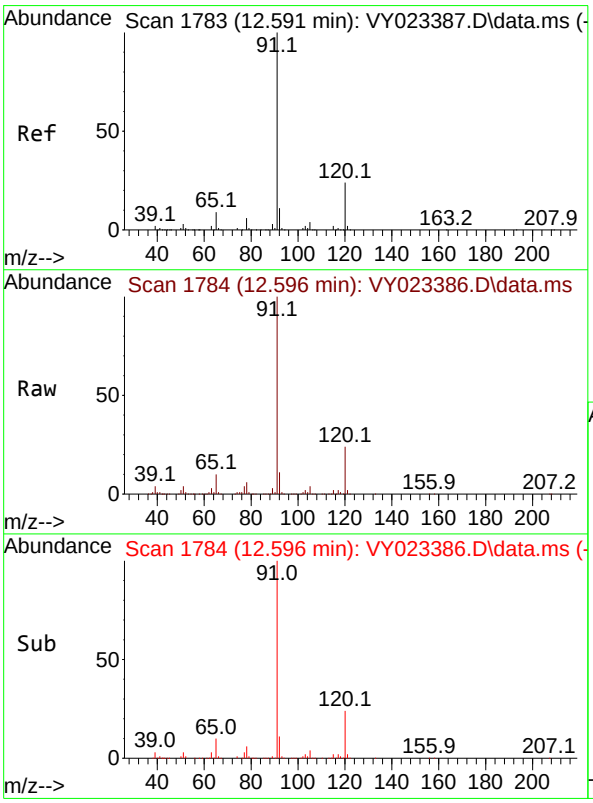
Ion	Ratio	Lower	Upper
156	100		
77	156.2	76.8	230.5
158	96.1	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

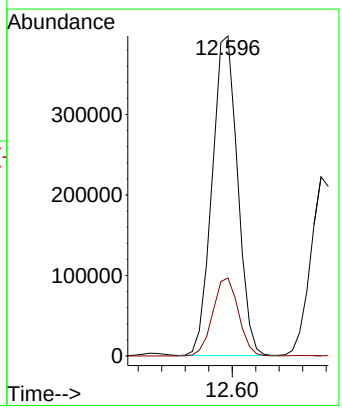
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

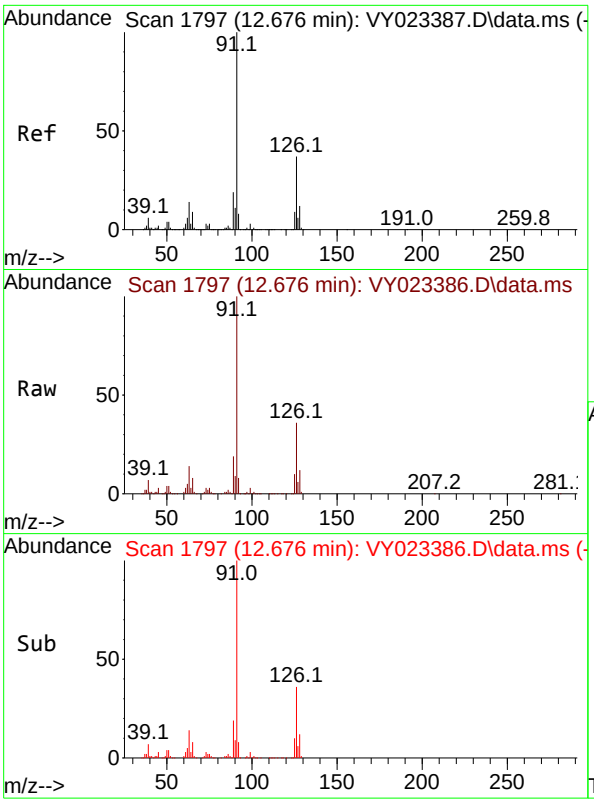


#78
n-propylbenzene
Concen: 19.945 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 597829

Ion	Ratio	Lower	Upper
91	100		
120	24.6	12.3	36.8

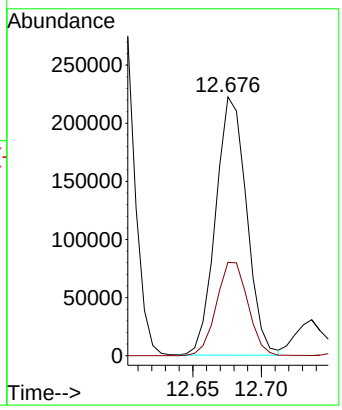




#79
2-Chlorotoluene
Concen: 20.179 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 34920

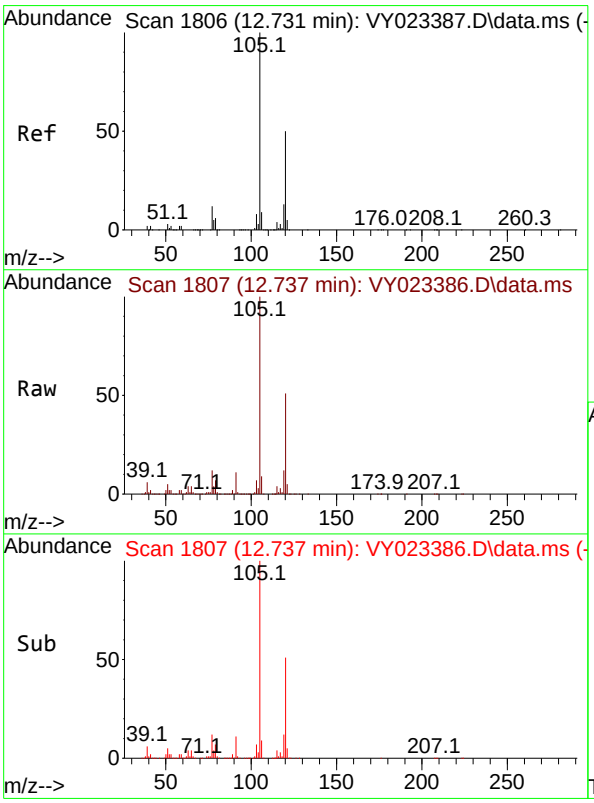
Ion	Ratio	Lower	Upper
91	100		
126	36.8	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

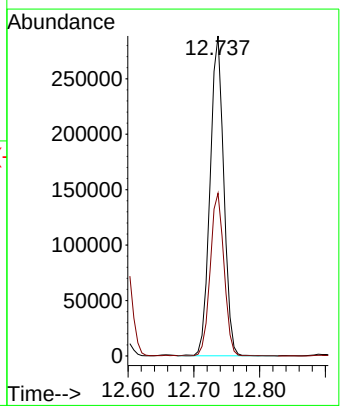
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

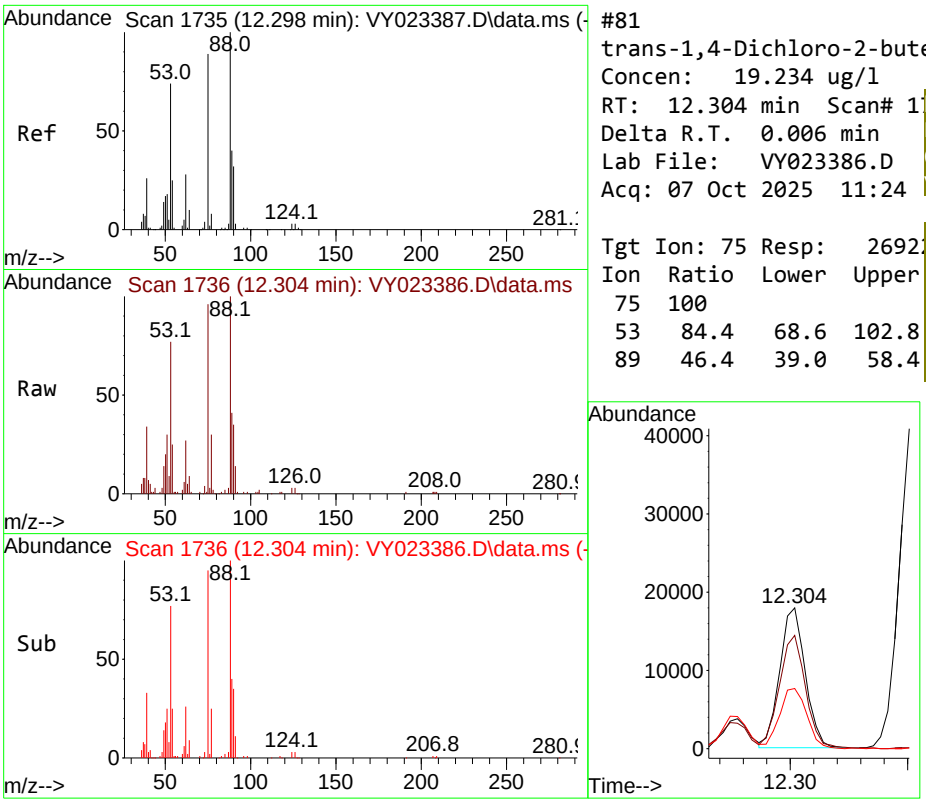


#80
1,3,5-Trimethylbenzene
Concen: 20.208 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

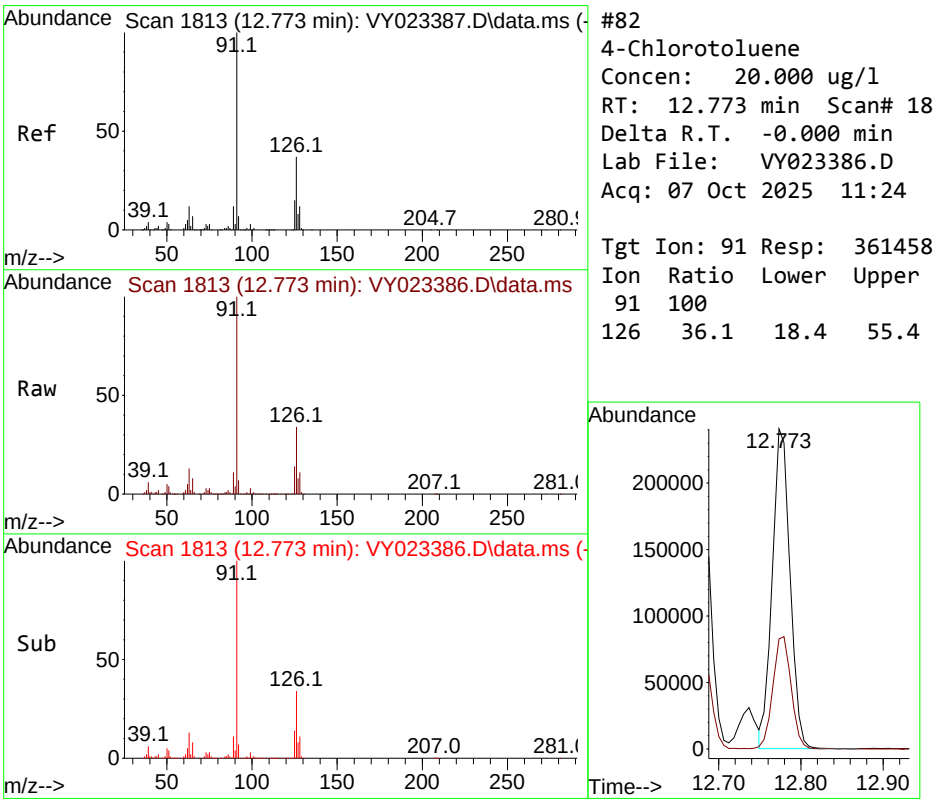
Tgt Ion: 75 Resp: 2692

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

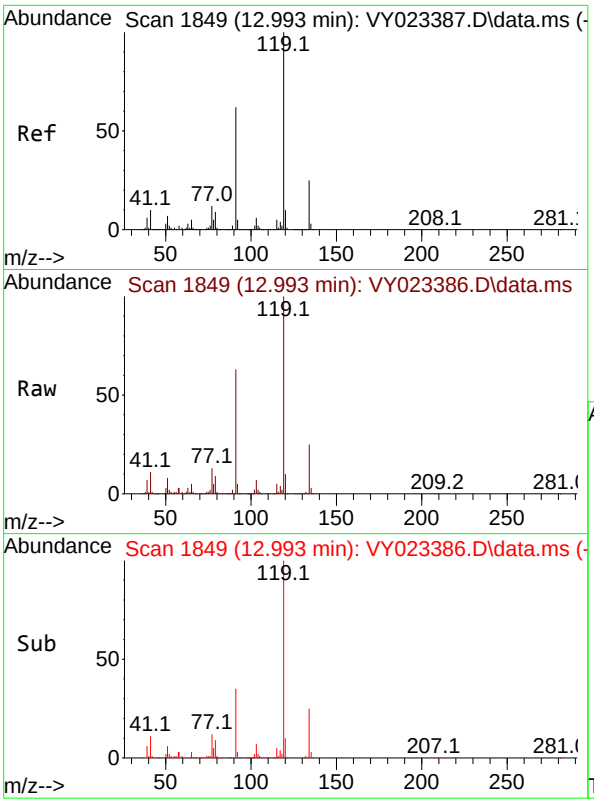
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

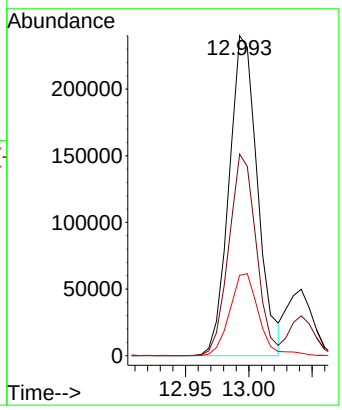
Ion	Ratio	Lower	Upper
91	100		
126	36.1	18.4	55.4



#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

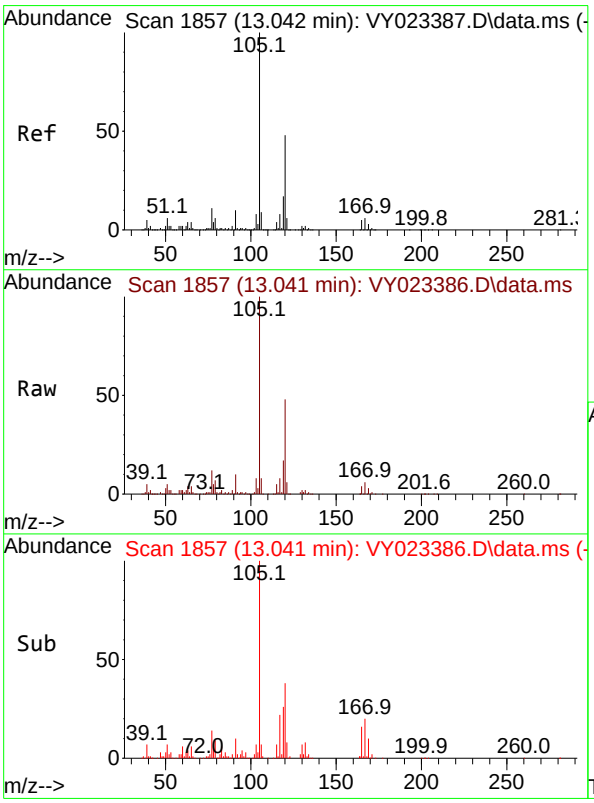
Ion	Ratio	Lower	Upper
119	100		
91	60.4	29.9	89.8
134	26.1	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

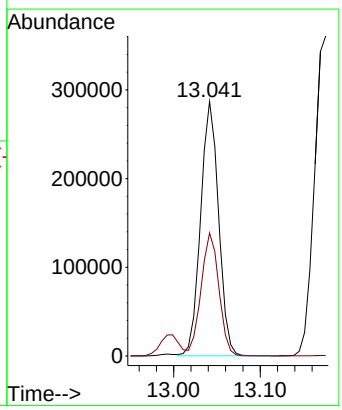
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

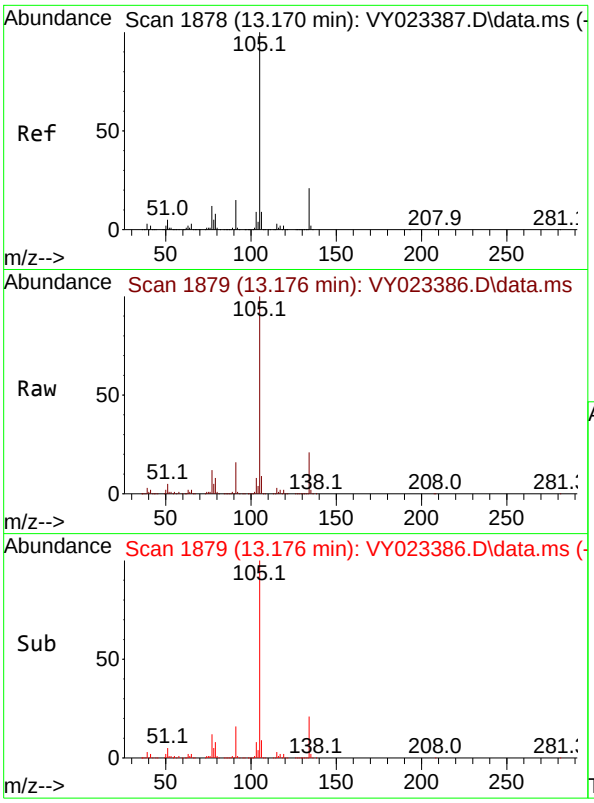


#84
1,2,4-Trimethylbenzene
Concen: 20.162 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:105 Resp: 413292

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.2

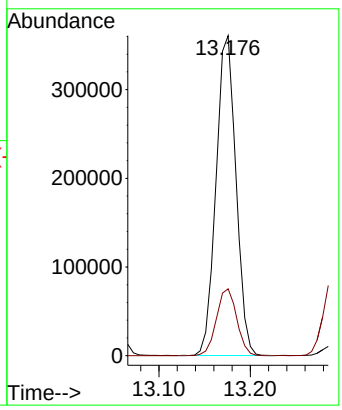




#85
sec-Butylbenzene
Concen: 19.990 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:105 Resp: 54658

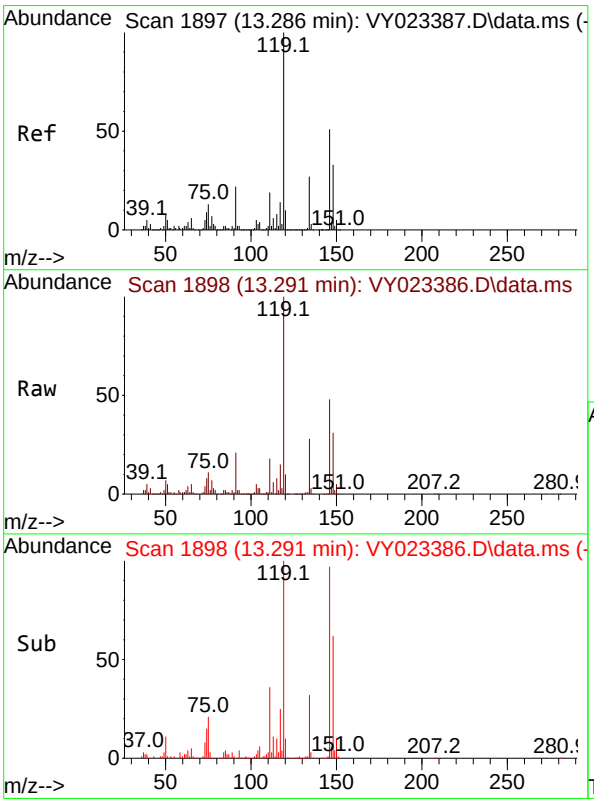
Ion	Ratio	Lower	Upper
105	100		
134	21.3	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

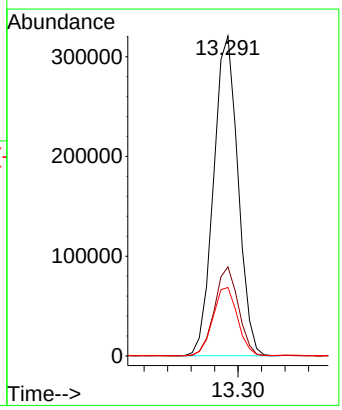
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

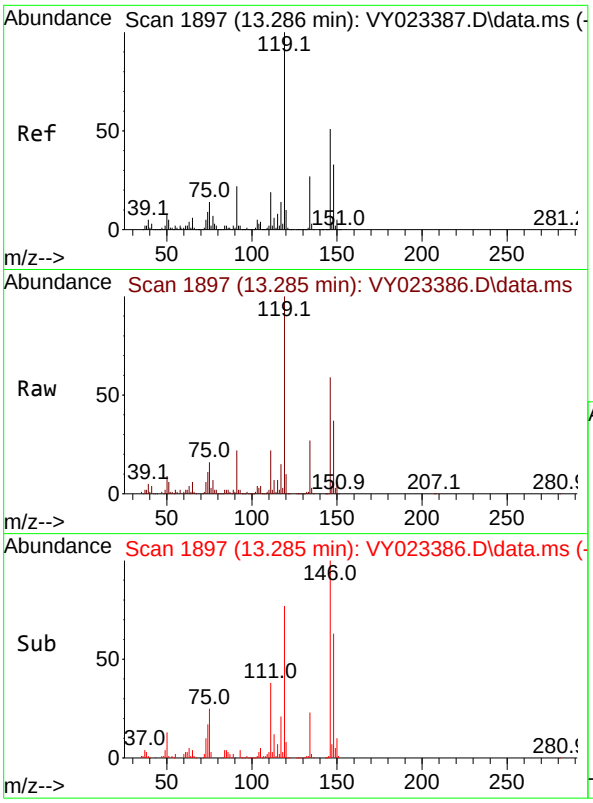


#86
p-Isopropyltoluene
Concen: 20.081 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

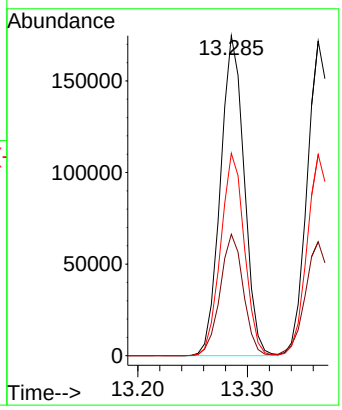




#87
1,3-Dichlorobenzene
Concen: 20.347 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion:146 Resp: 26290

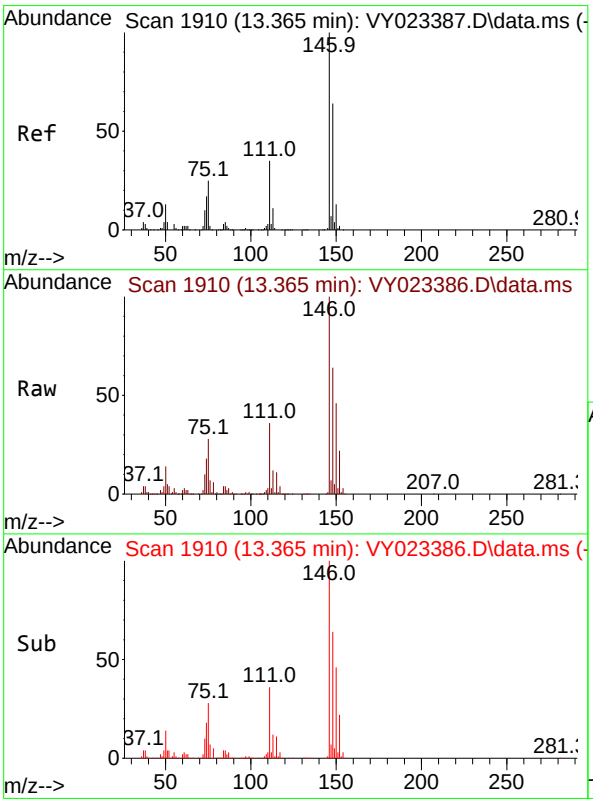
Ion	Ratio	Lower	Upper
146	100		
111	37.2	18.7	56.1
148	63.1	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

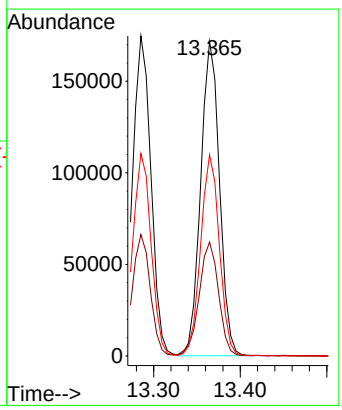
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

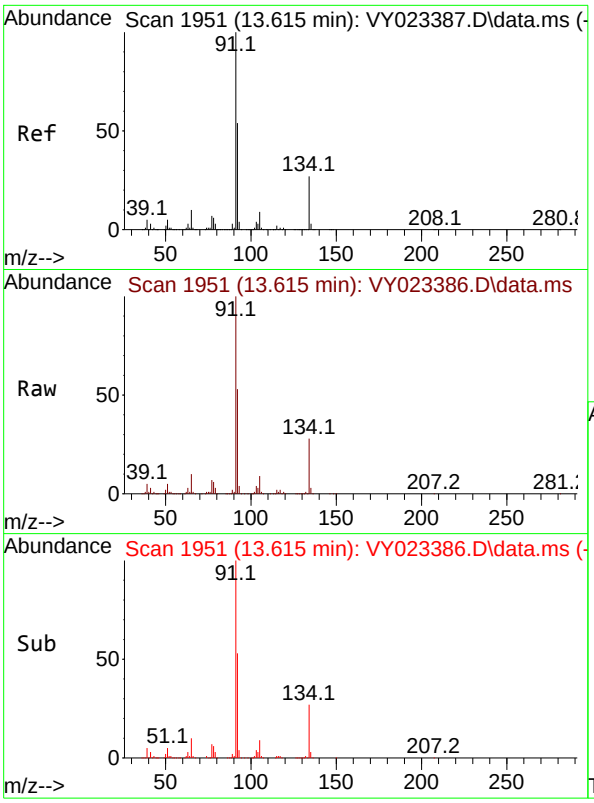


#88
1,4-Dichlorobenzene
Concen: 20.230 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

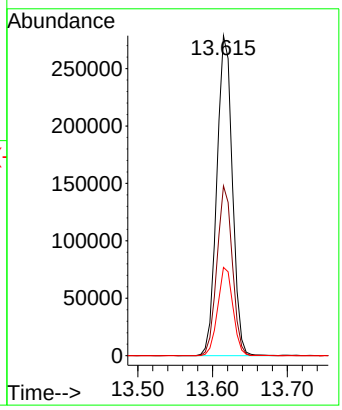




#89
n-Butylbenzene
Concen: 19.697 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

Tgt Ion: 91 Resp: 40189

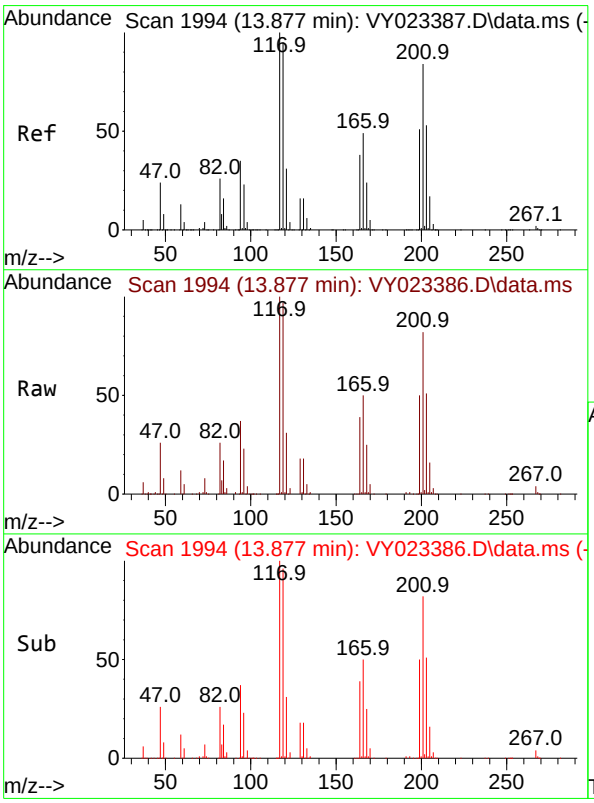
Ion	Ratio	Lower	Upper
91	100		
92	52.6	27.0	80.8
134	27.3	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

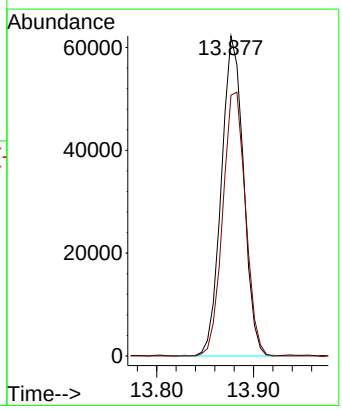
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

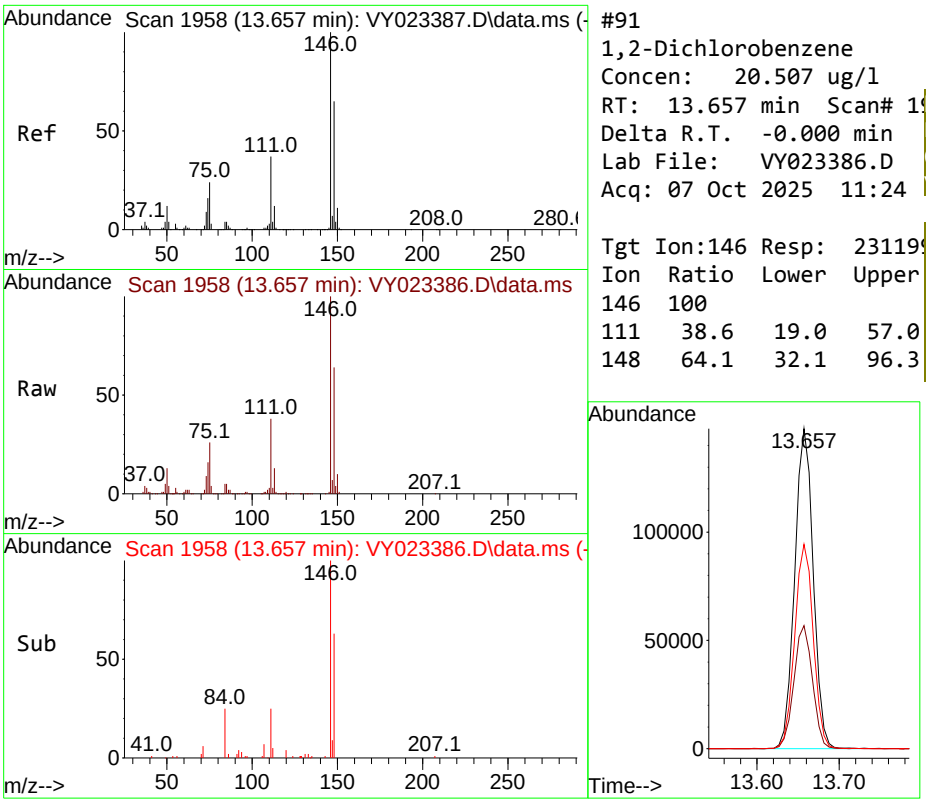


#90
Hexachloroethane
Concen: 19.730 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023386.D
Acq: 07 Oct 2025 11:24

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

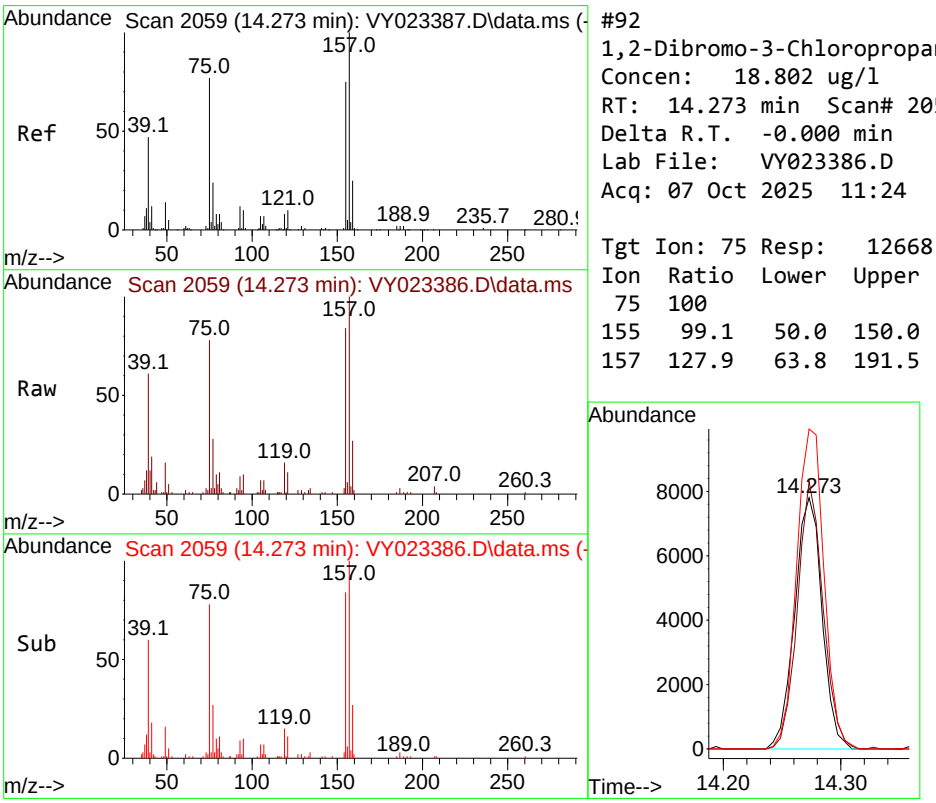
Tgt Ion:146 Resp: 23119

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

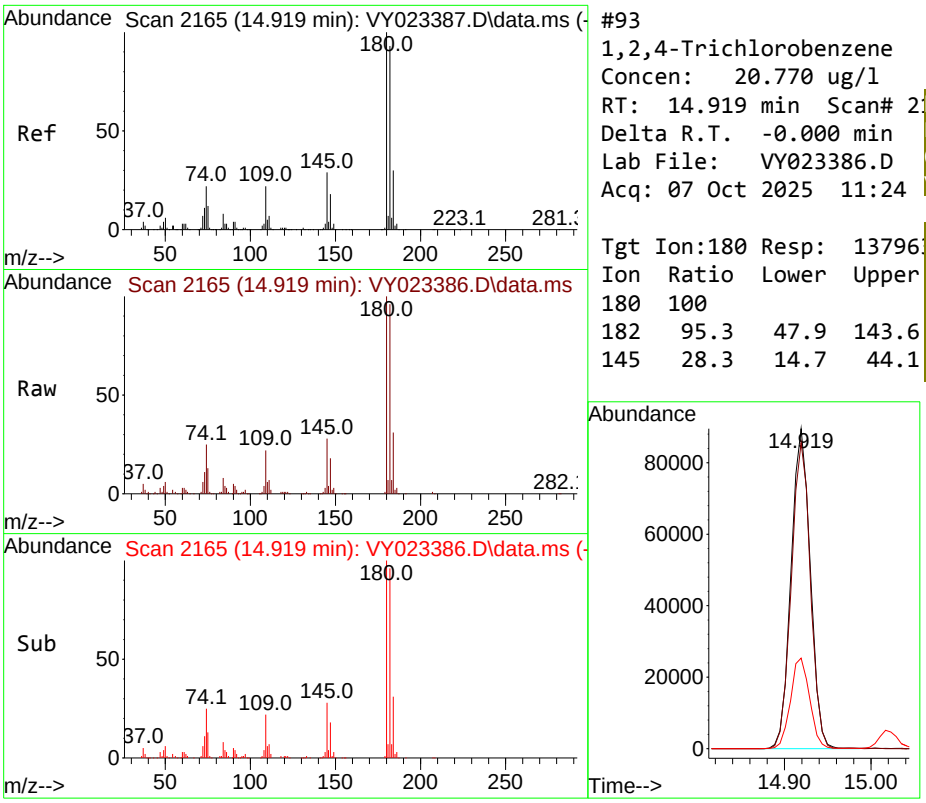
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

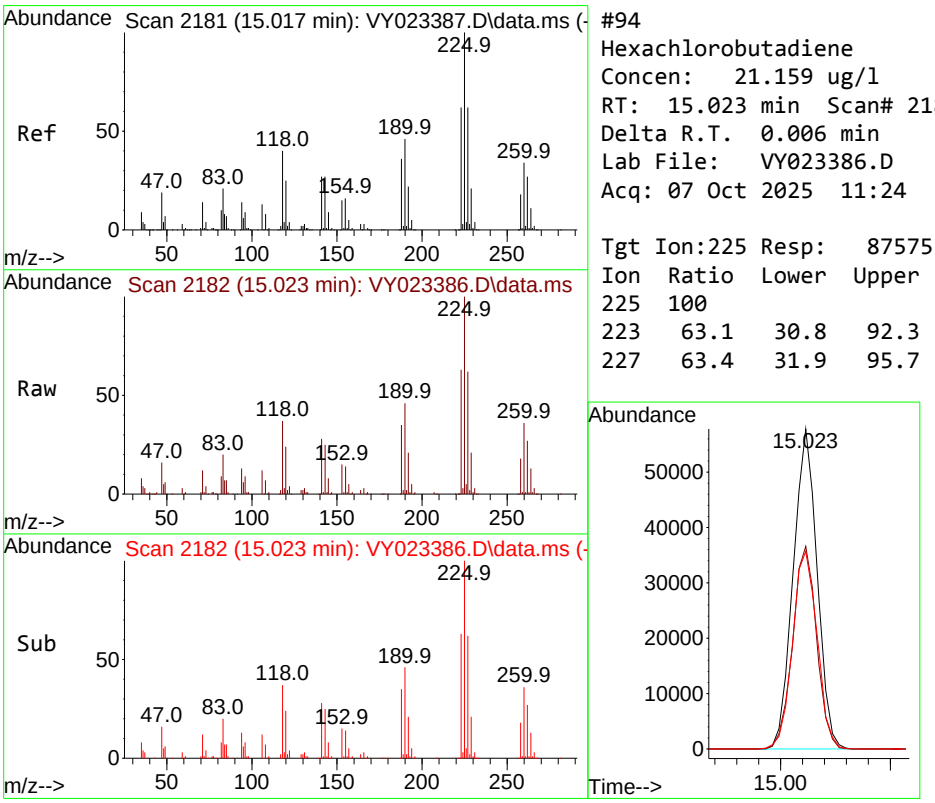
Tgt Ion:180 Resp: 13796

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

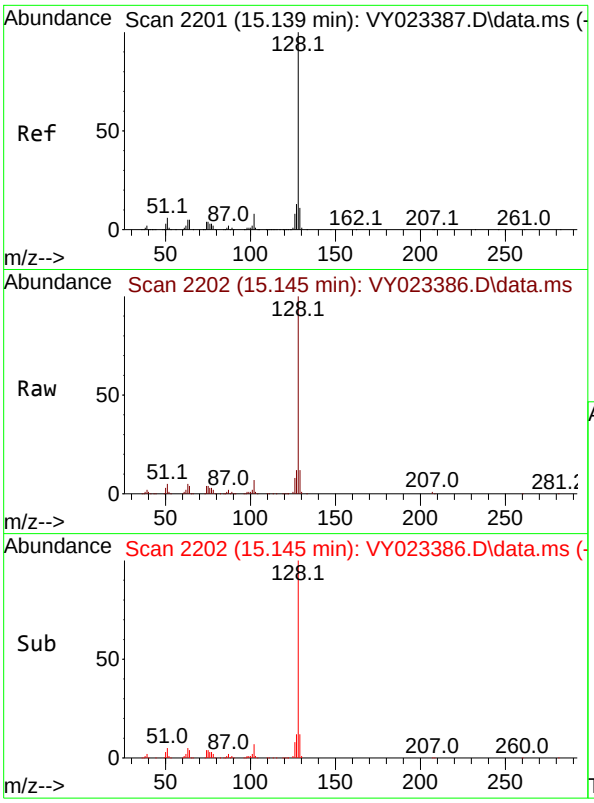
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

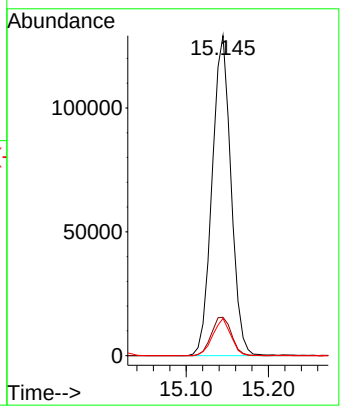
Ion	Ratio	Lower	Upper
225	100		
223	63.1	30.8	92.3
227	63.4	31.9	95.7



#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

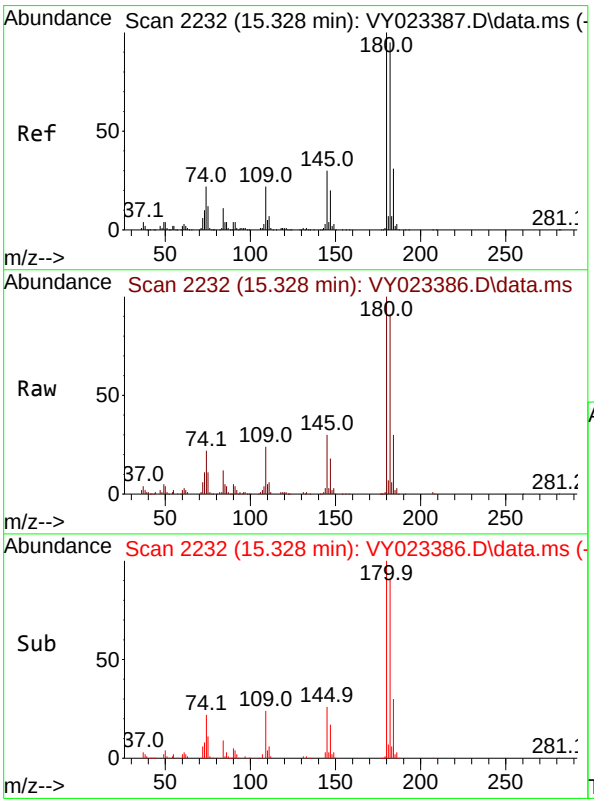
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.1	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

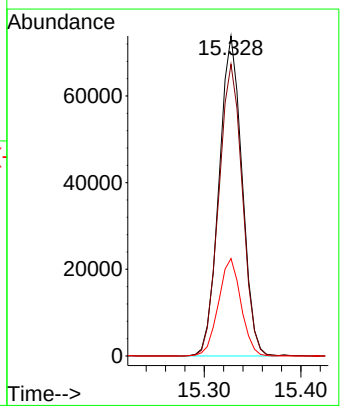
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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



Quantitation Report (QT Reviewed)

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)
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

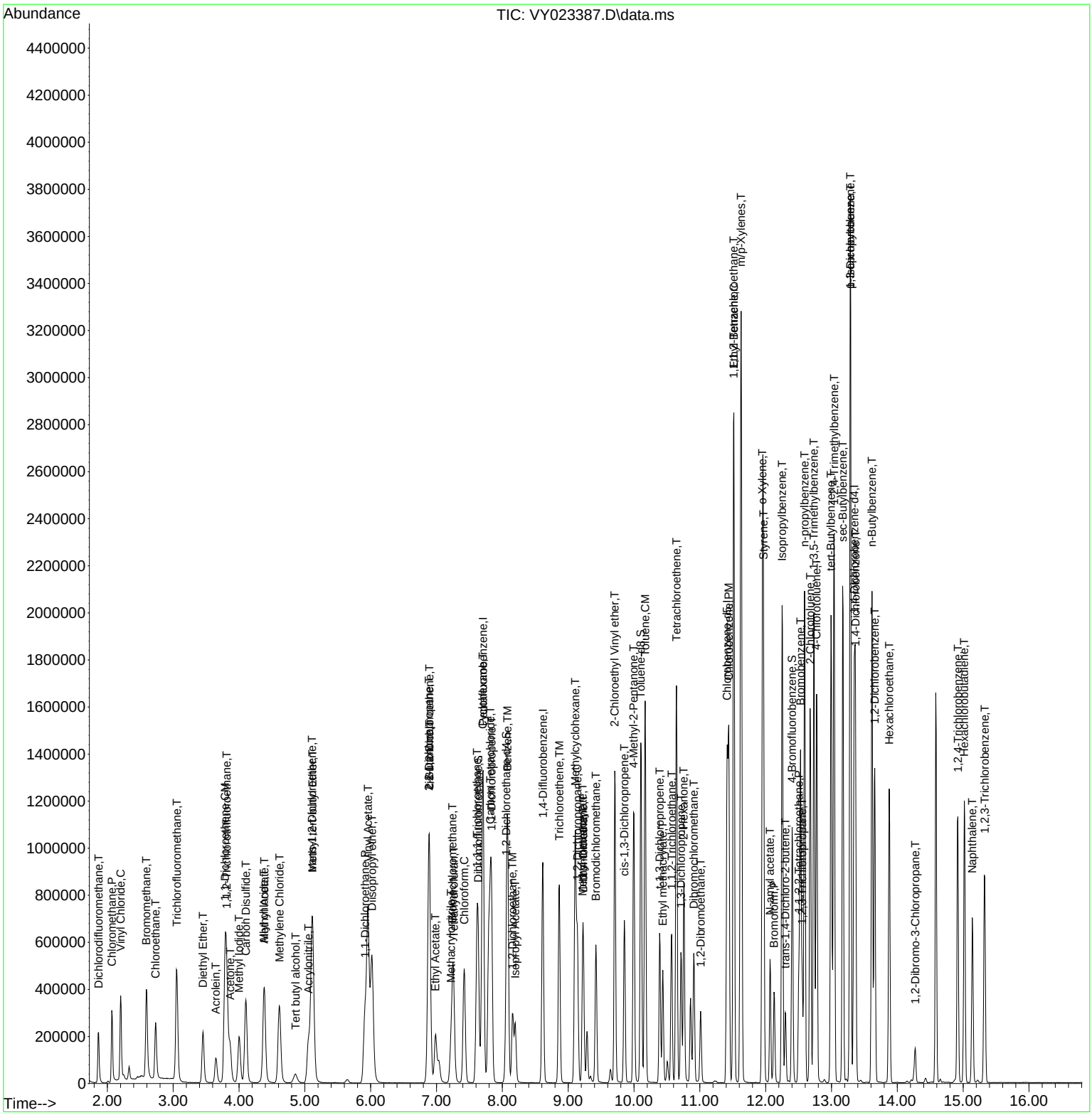
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023387.D
Acq On : 07 Oct 2025 11:47
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

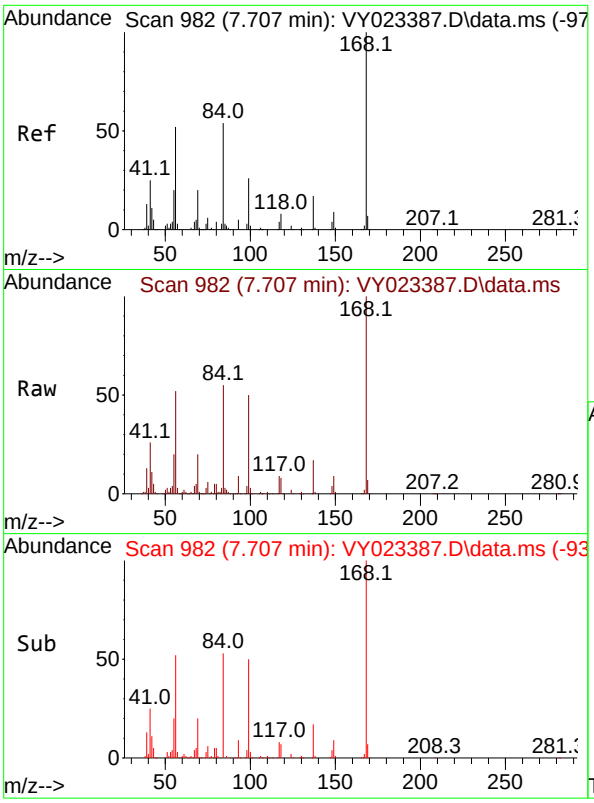
Quant Time: Oct 08 04:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

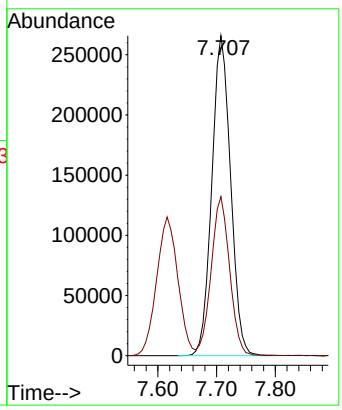




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:168 Resp: 59034

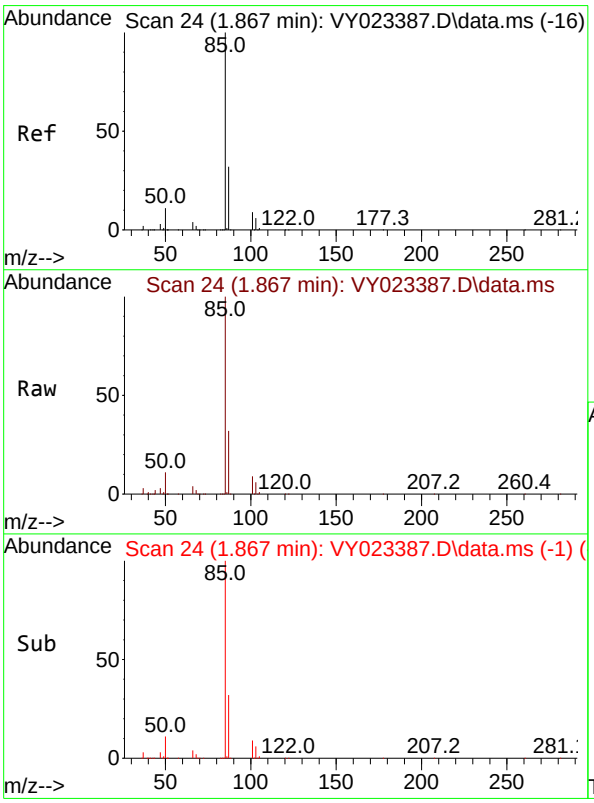
Ion	Ratio	Lower	Upper
168	100		
99	49.6	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

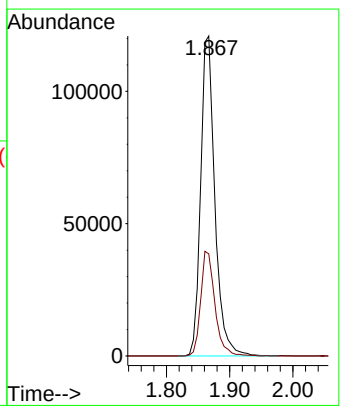
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

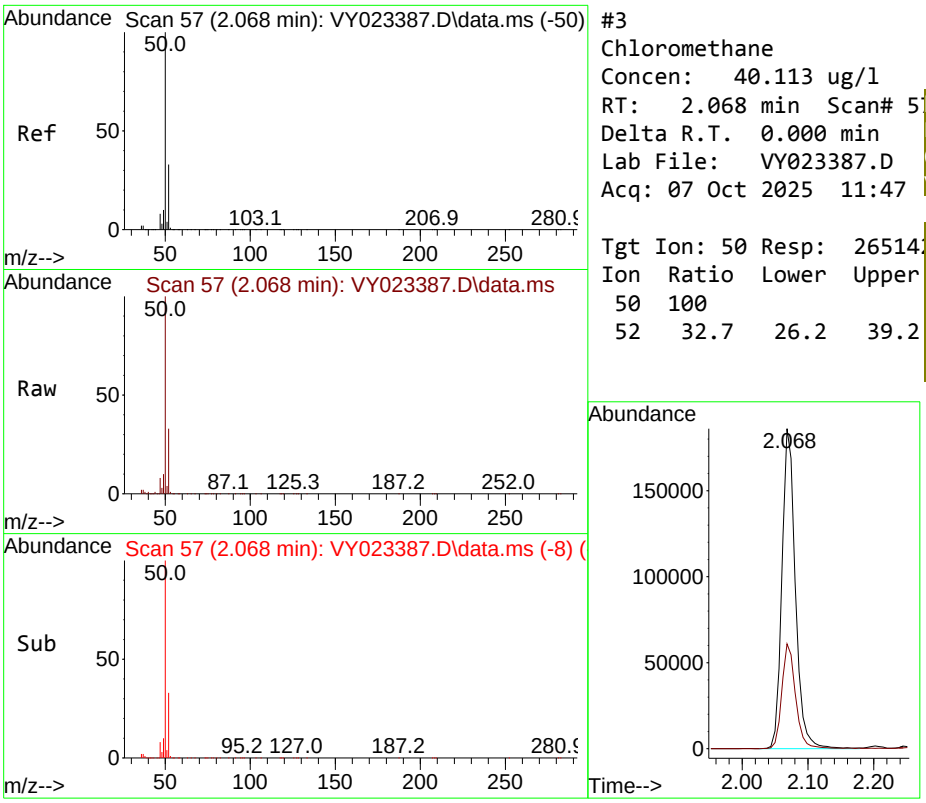


#2
Dichlorodifluoromethane
Concen: 40.745 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

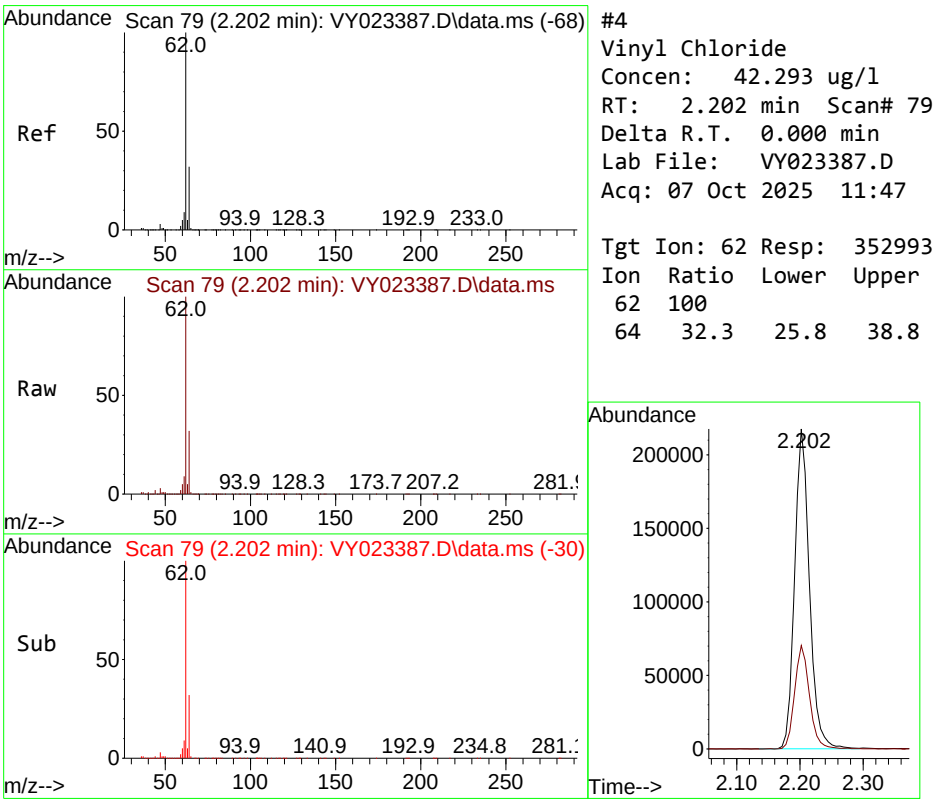
Tgt Ion: 50 Resp: 26514

Ion	Ratio	Lower	Upper
50	100		
52	32.7	26.2	39.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

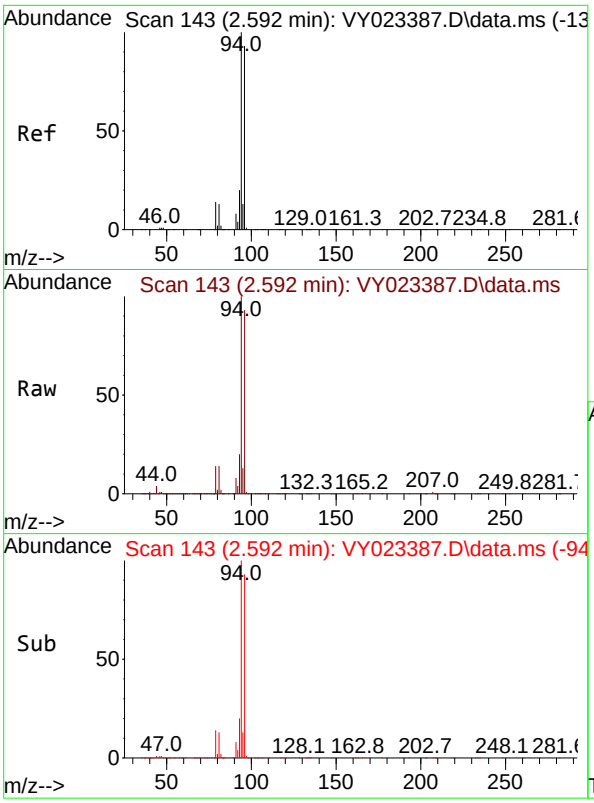
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

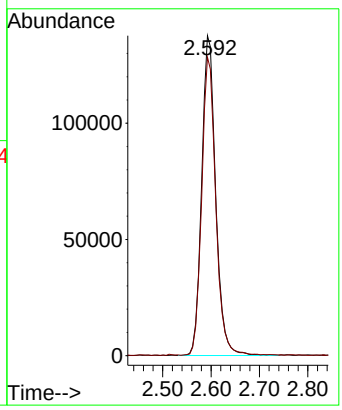
Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.8	38.8



#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

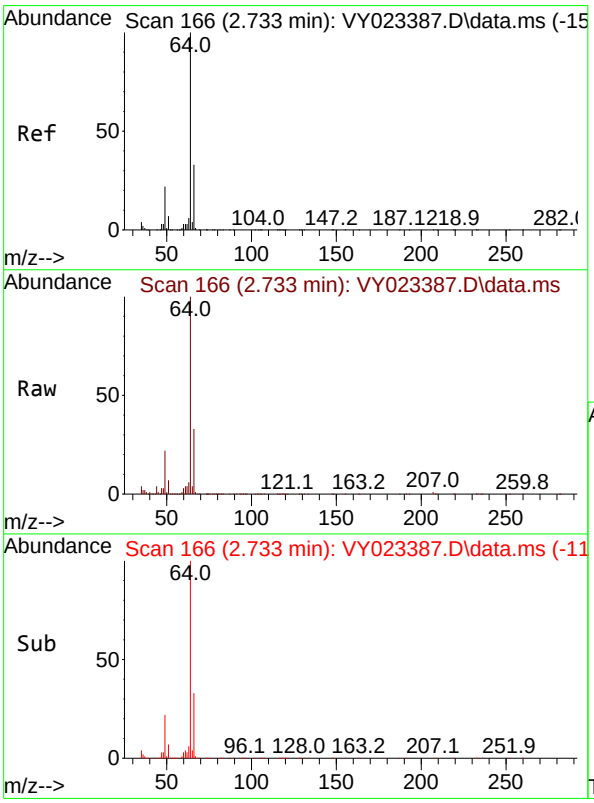
Ion	Ratio	Lower	Upper
94	100		
96	93.1	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

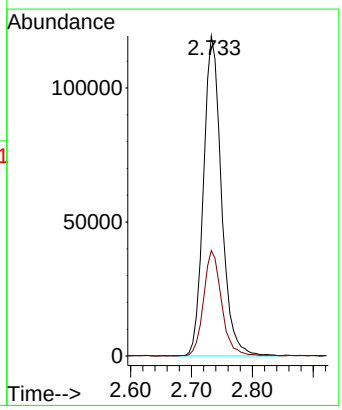
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

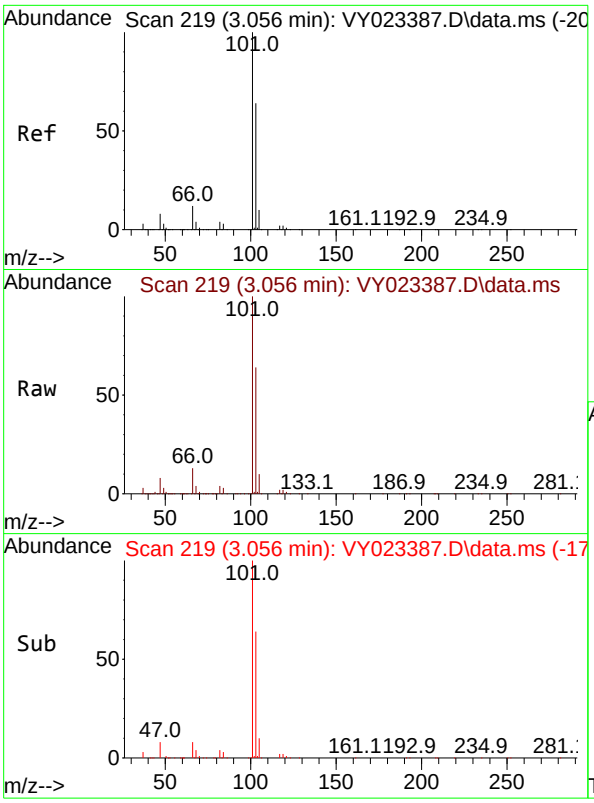


#6
Chloroethane
Concen: 43.157 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 64 Resp: 244551

Ion	Ratio	Lower	Upper
64	100		
66	32.8	26.2	39.4

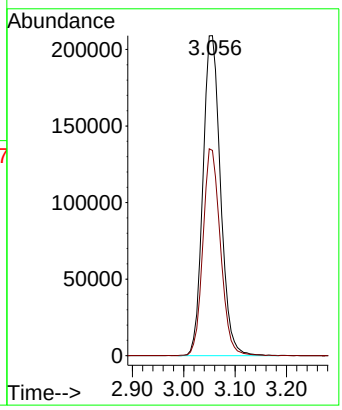




#7
Trichlorofluoromethane
Concen: 46.354 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:101 Resp: 49698

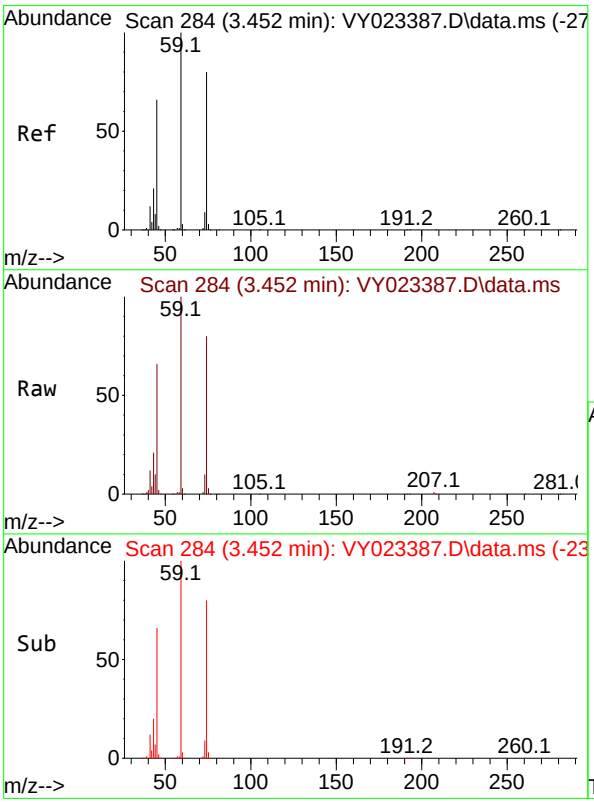
Ion	Ratio	Lower	Upper
101	100		
103	64.1	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

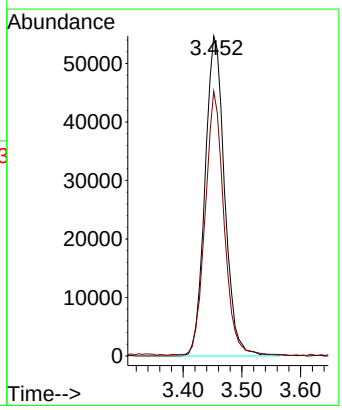
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

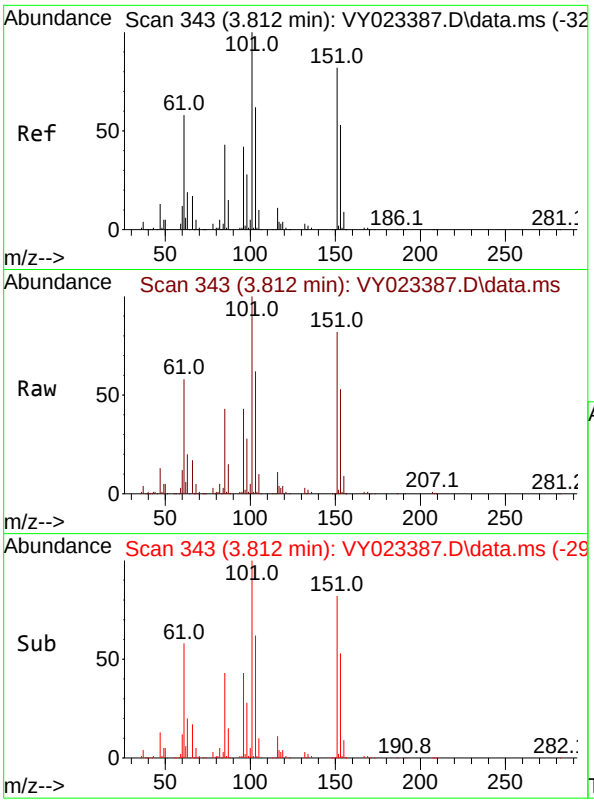


#8
Diethyl Ether
Concen: 45.158 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 74 Resp: 126634

Ion	Ratio	Lower	Upper
74	100		
45	79.8	39.9	119.7

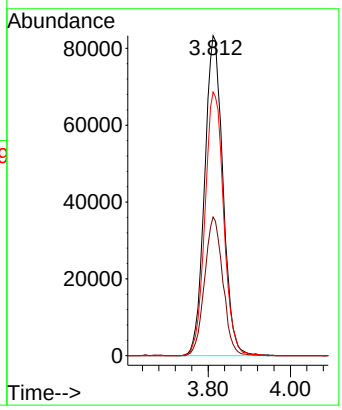




#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.039 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:101 Resp: 25810

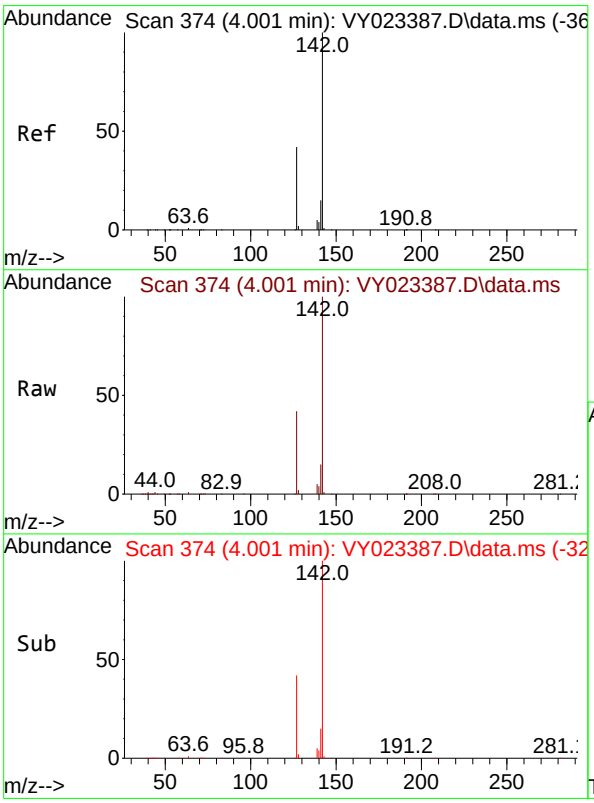
Ion	Ratio	Lower	Upper
101	100		
85	43.2	34.6	51.8
151	83.8	67.0	100.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

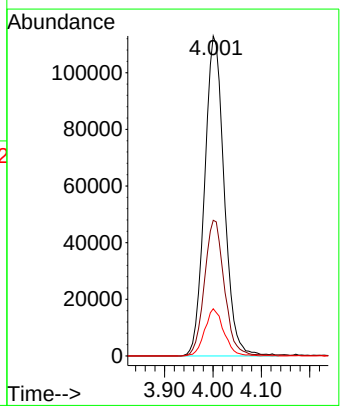
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

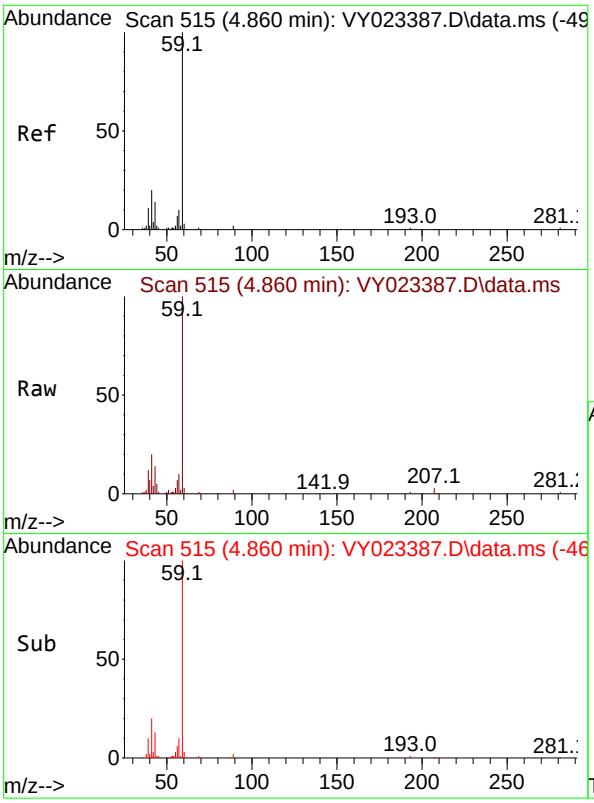


#10
Methyl Iodide
Concen: 47.979 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

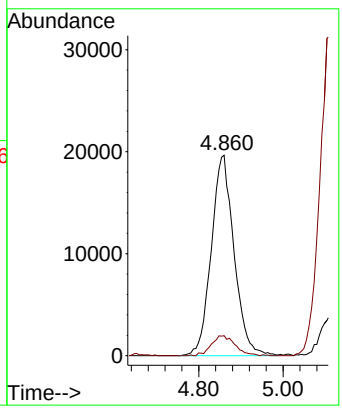




#11
Tert butyl alcohol
Concen: 244.793 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 59 Resp: 7364

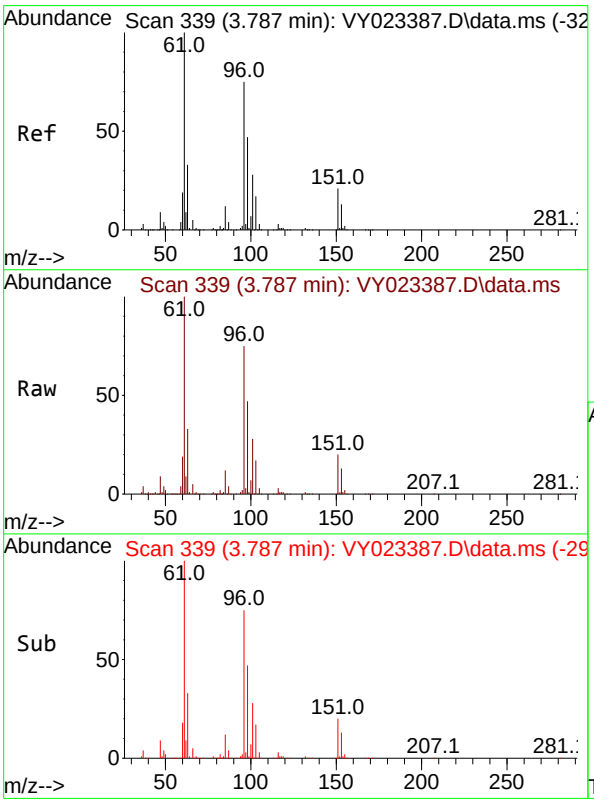
Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

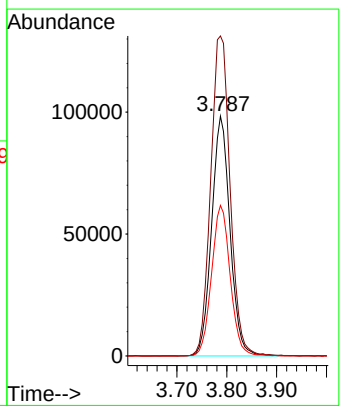
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

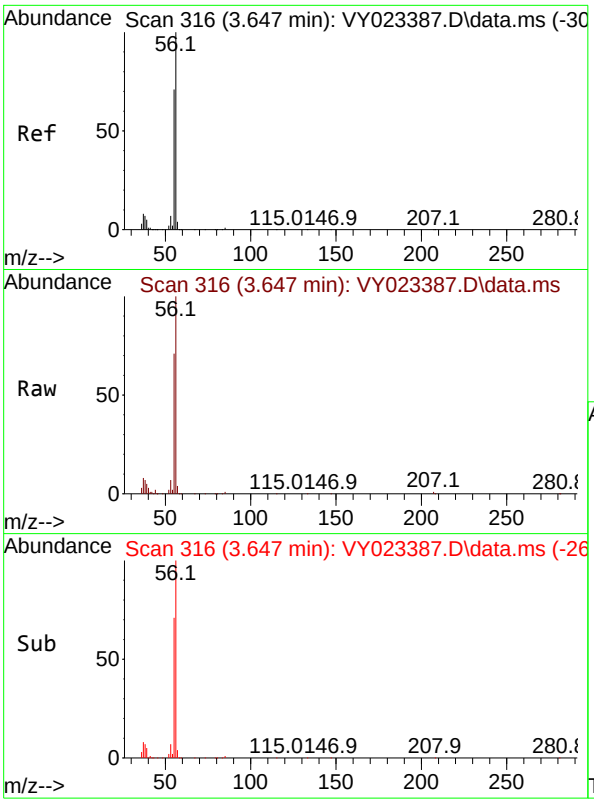


#12
1,1-Dichloroethene
Concen: 45.738 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

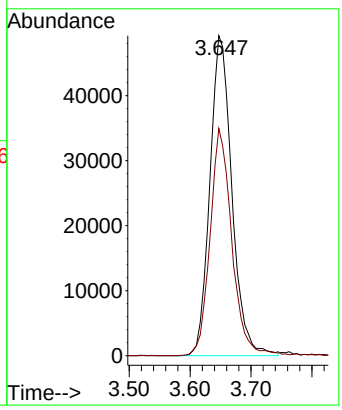




#13
Acrolein
Concen: 242.575 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 56 Resp: 12364

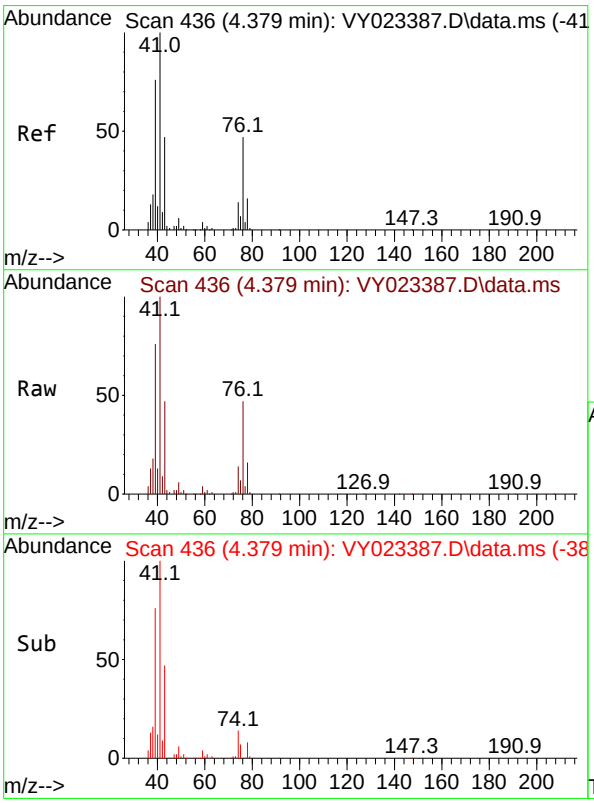
Ion	Ratio	Lower	Upper
56	100		
55	70.1	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

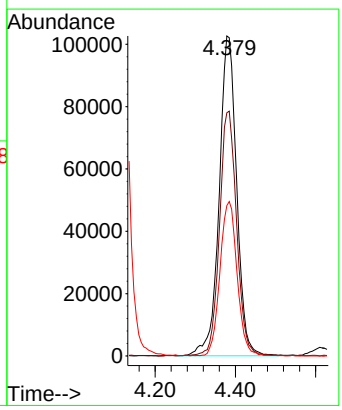
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

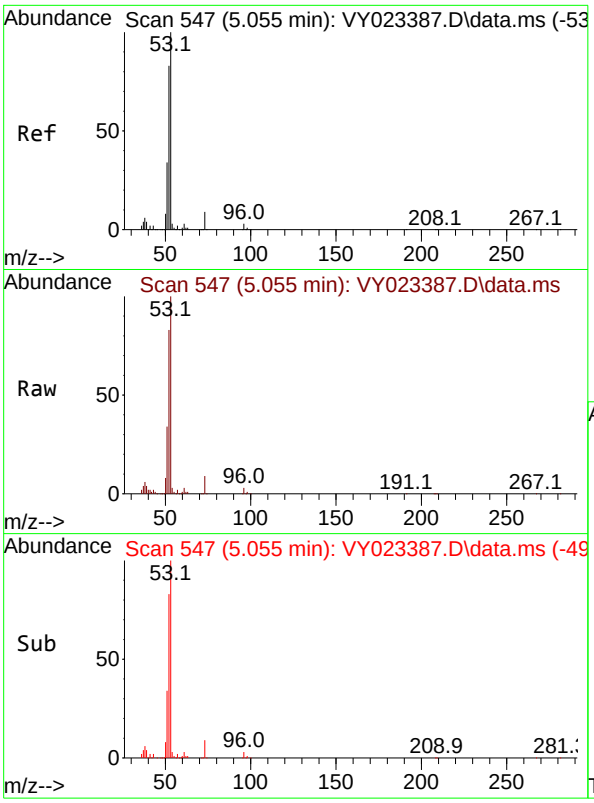


#14
Allyl chloride
Concen: 44.989 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

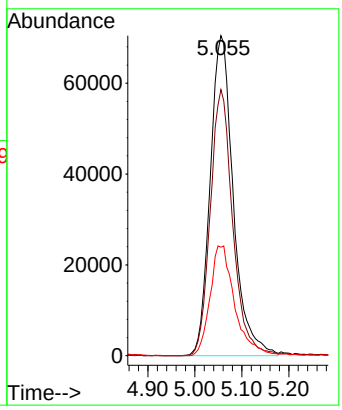




#15
Acrylonitrile
Concen: 219.075 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 53 Resp: 24066

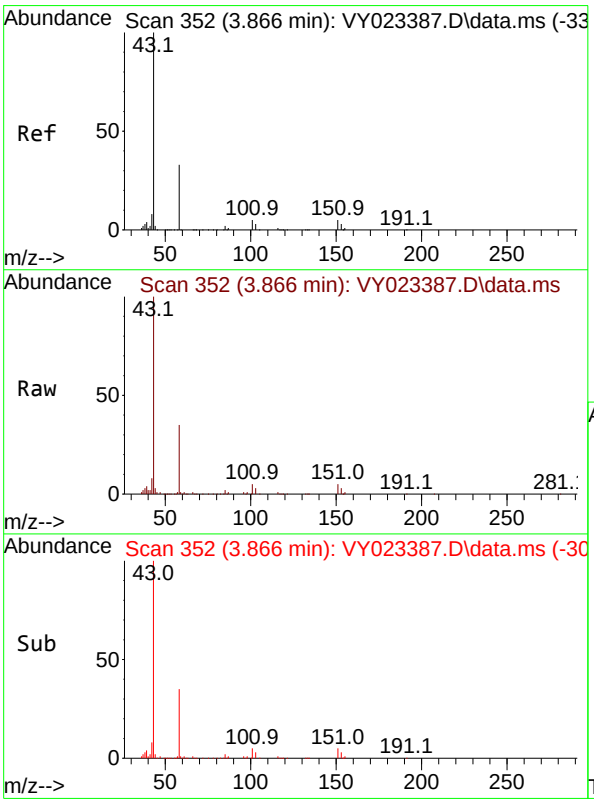
Ion	Ratio	Lower	Upper
53	100		
52	80.8	64.6	97.0
51	36.9	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

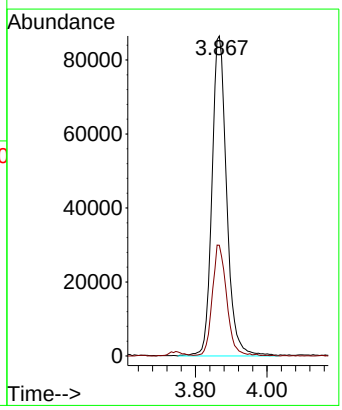
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

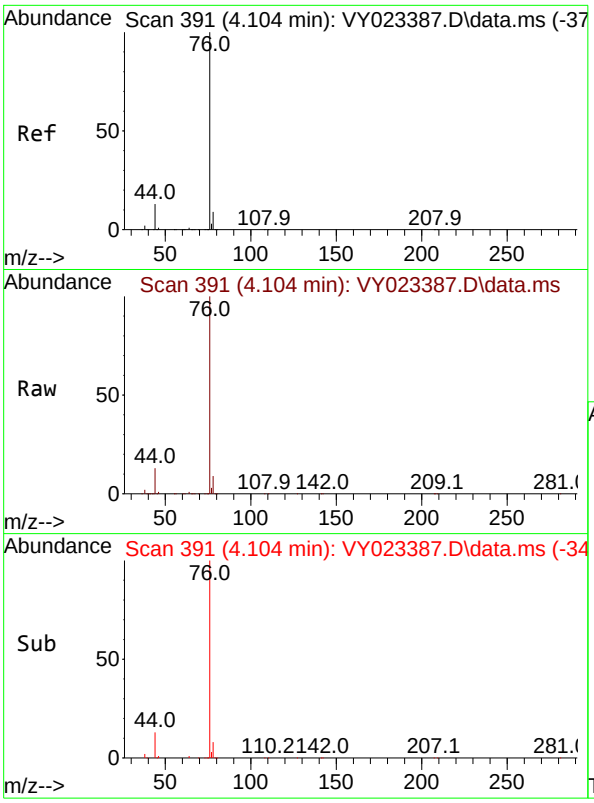


#16
Acetone
Concen: 214.955 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 247122

Ion	Ratio	Lower	Upper
43	100		
58	34.6	27.7	41.5

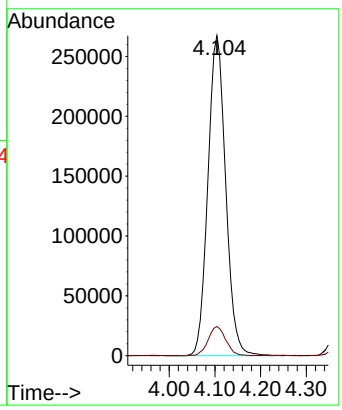




#17
Carbon Disulfide
Concen: 42.028 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 76 Resp: 72298

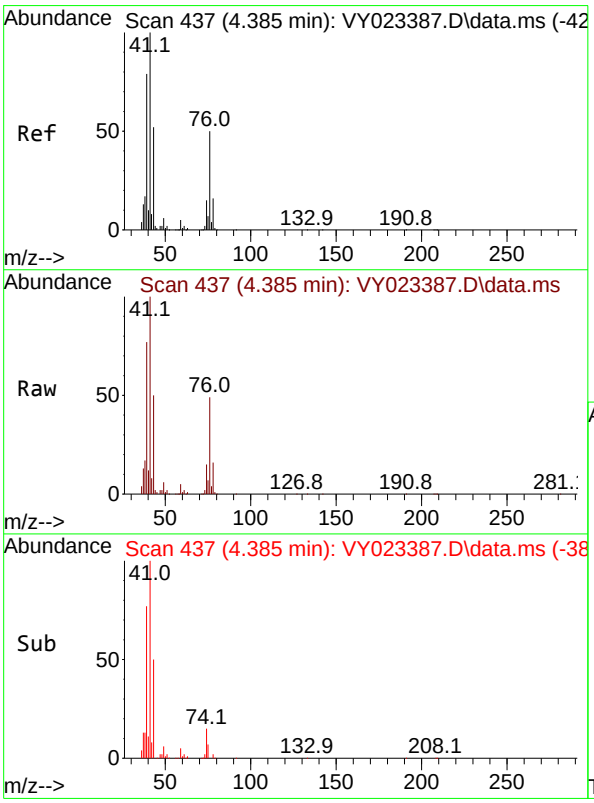
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

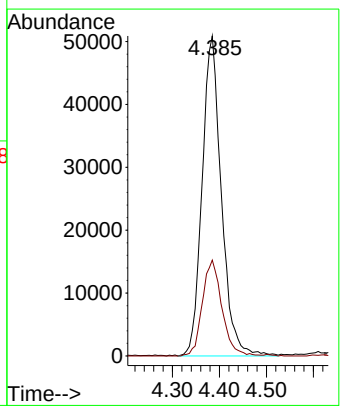
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

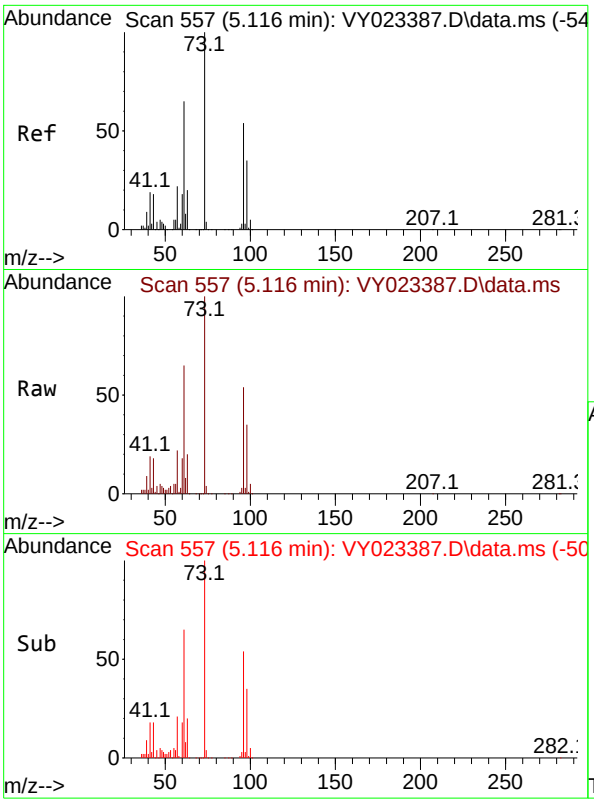


#18
Methyl Acetate
Concen: 49.563 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 144816

Ion	Ratio	Lower	Upper
43	100		
74	30.3	24.2	36.4

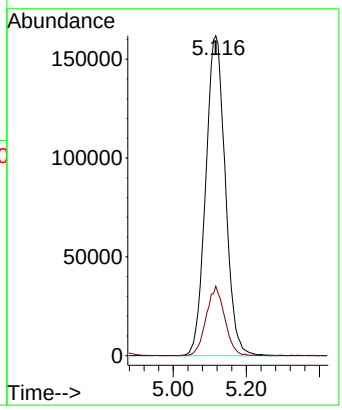




#19
Methyl tert-butyl Ether
Concen: 46.626 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 73 Resp: 60193

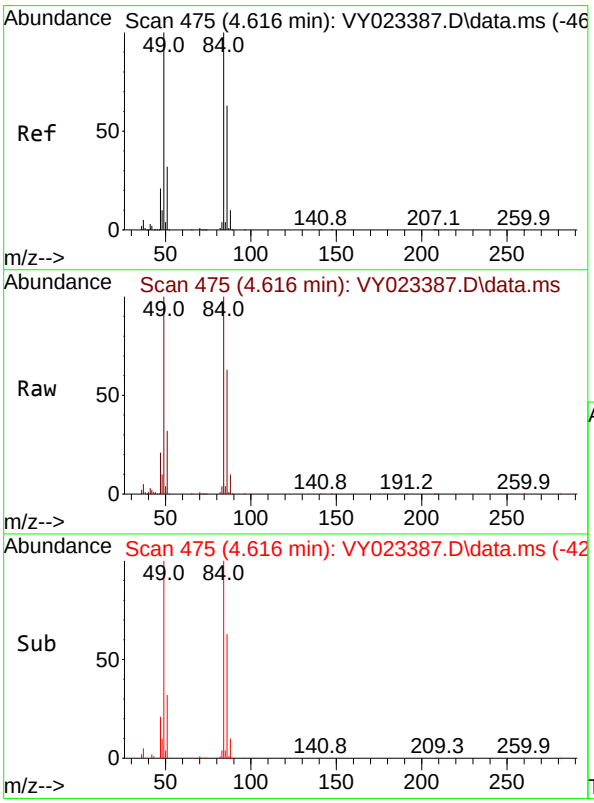
Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

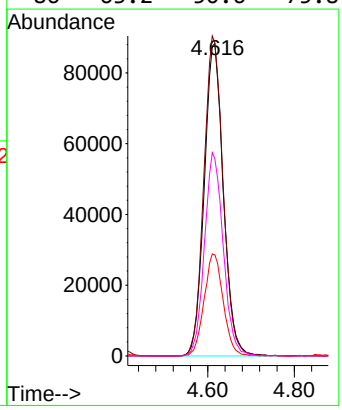
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

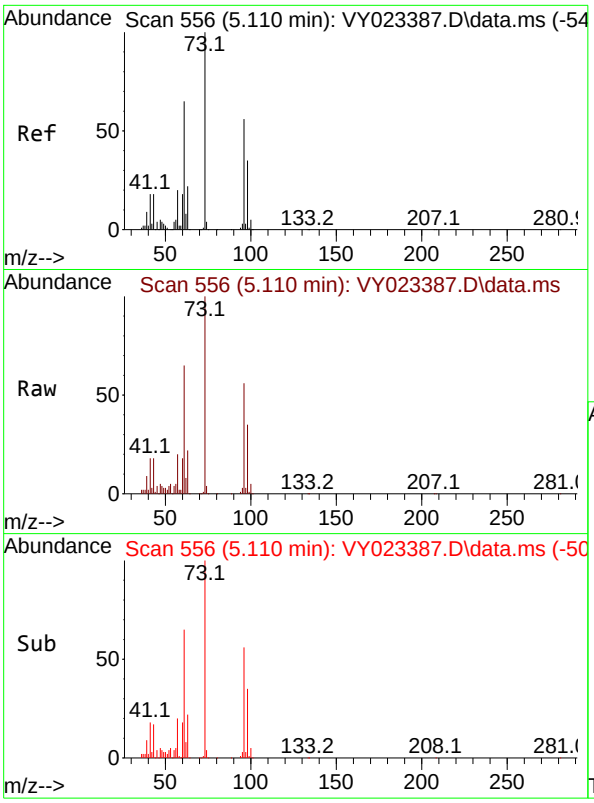


#20
Methylene Chloride
Concen: 43.409 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

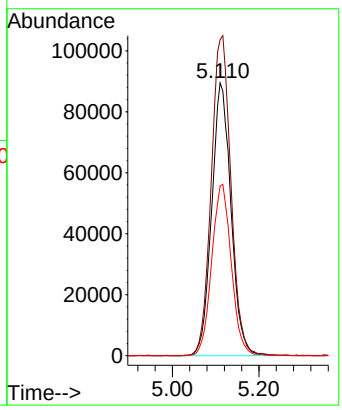




#21
trans-1,2-Dichloroethene
Concen: 45.256 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 96 Resp: 27751(

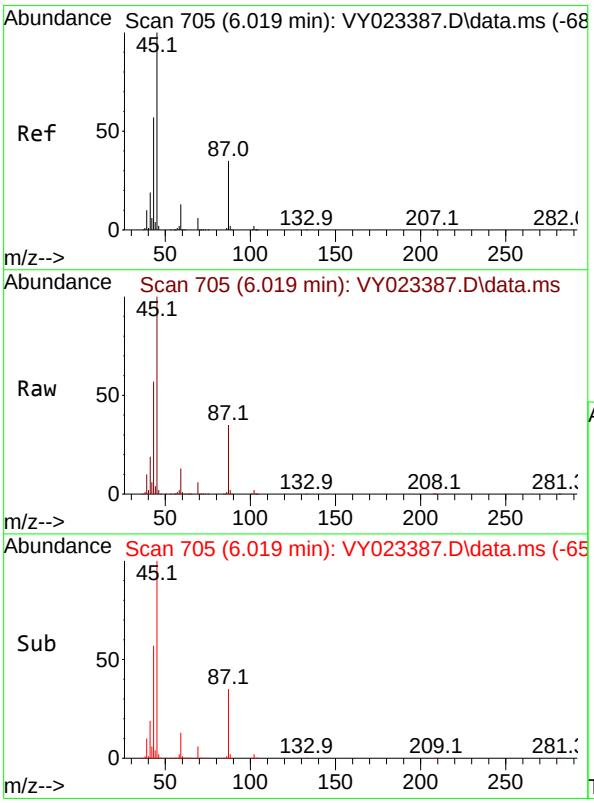
Ion	Ratio	Lower	Upper
96	100		
61	115.9	92.7	139.1
98	62.1	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

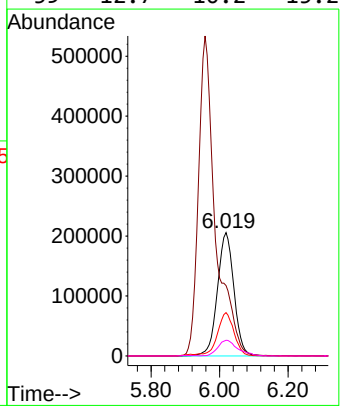
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

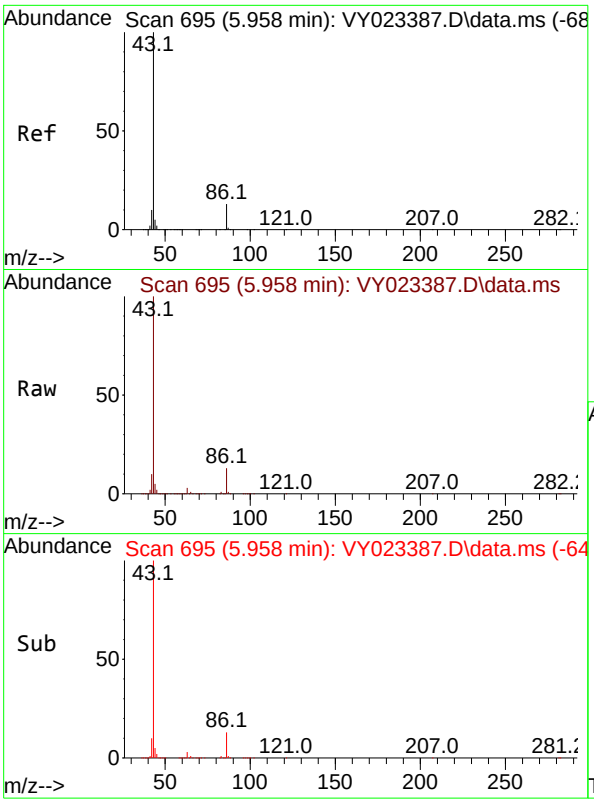


#22
Diisopropyl ether
Concen: 44.844 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

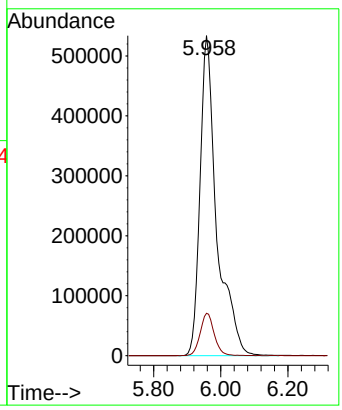
Tgt Ion: 43 Resp: 184378

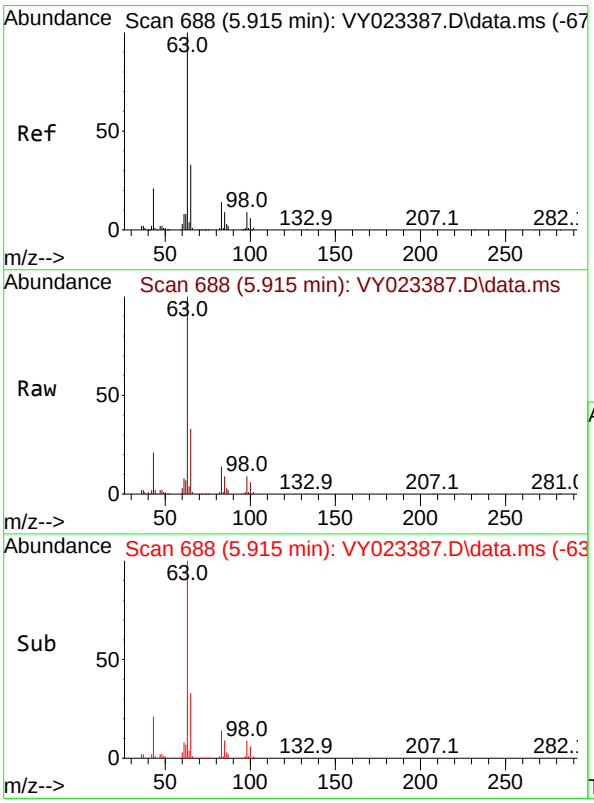
Ion	Ratio	Lower	Upper
43	100		
86	13.2	10.6	15.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

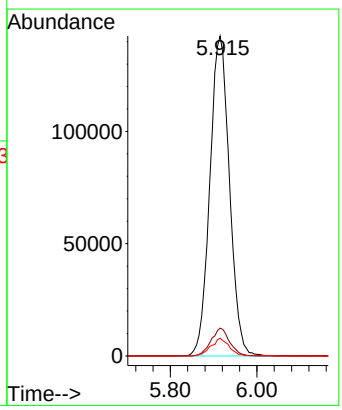


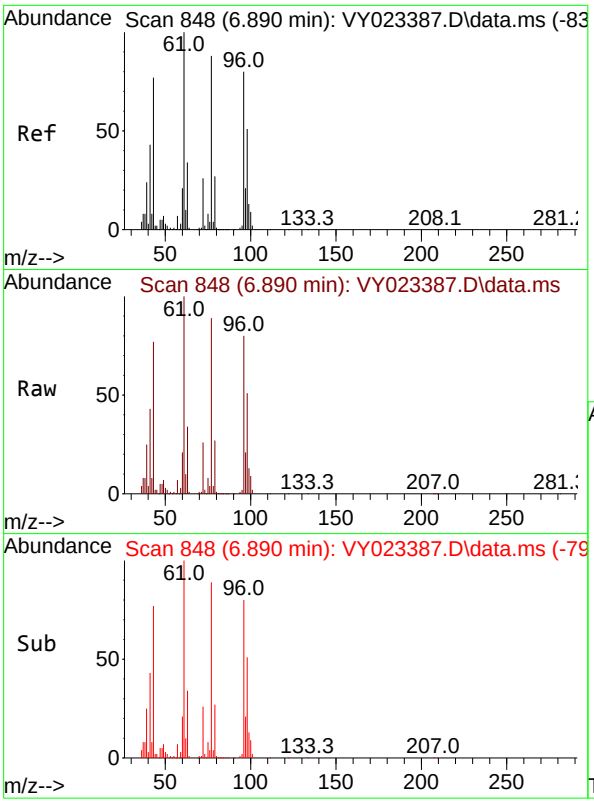


#24
1,1-Dichloroethane
Concen: 44.423 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

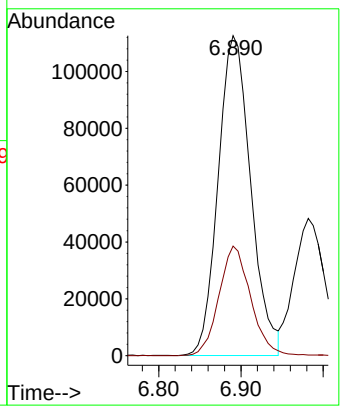
Tgt Ion: 43 Resp: 31023

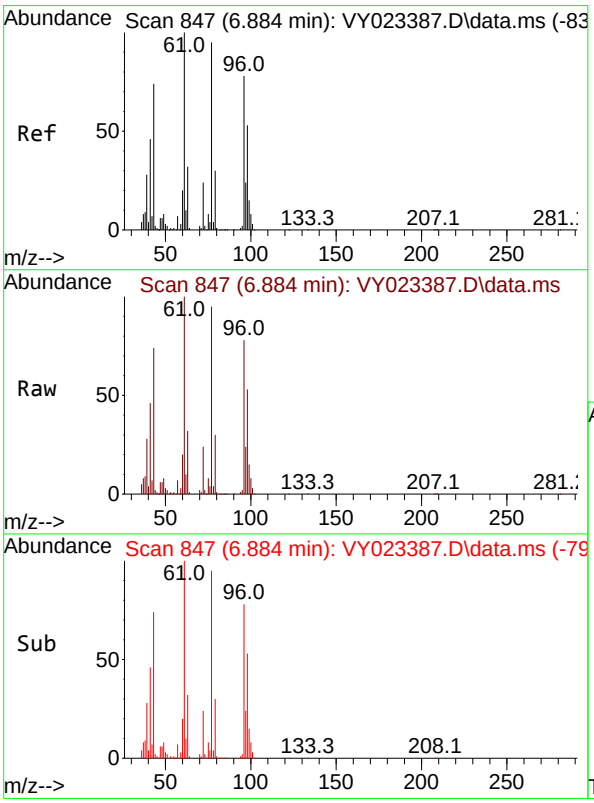
Ion	Ratio	Lower	Upper
43	100		
72	34.3	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

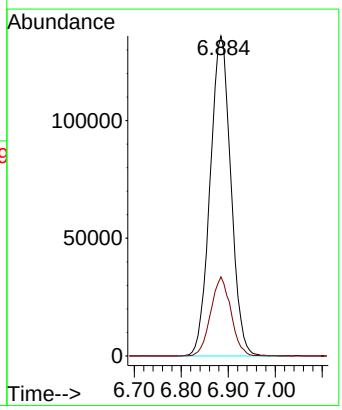


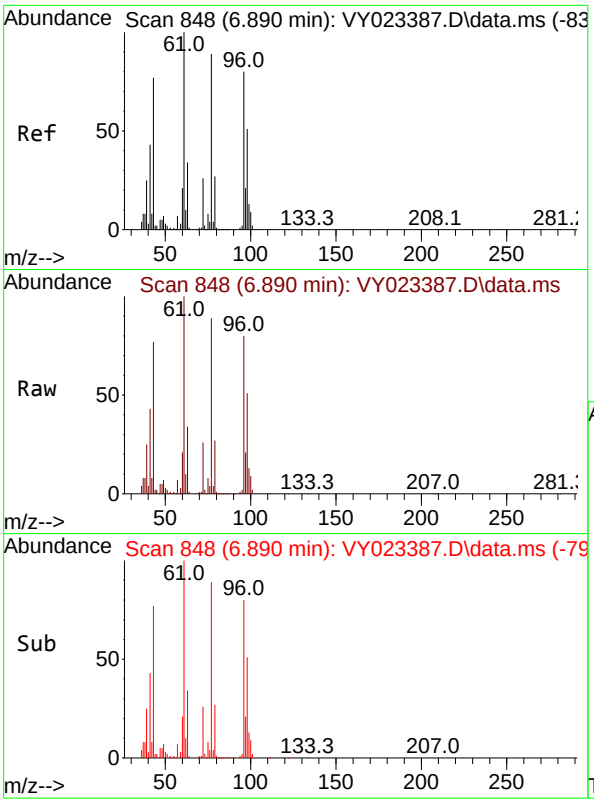


#26
2,2-Dichloropropane
Concen: 46.440 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

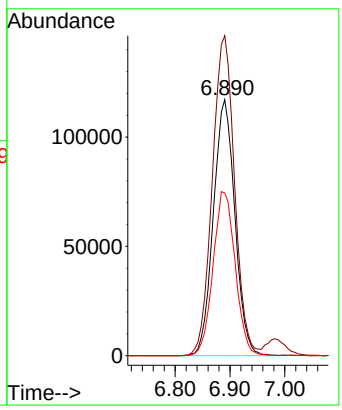
Tgt Ion: 96 Resp: 32002

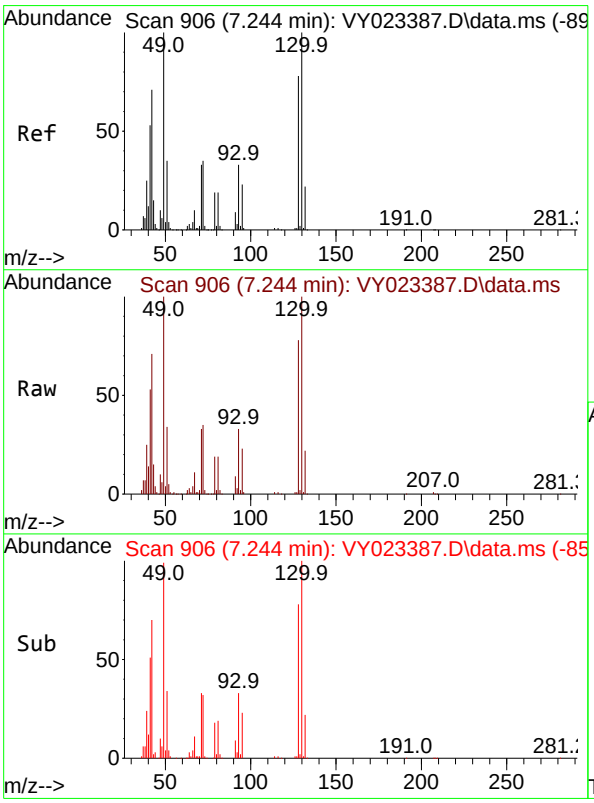
Ion	Ratio	Lower	Upper
96	100		
61	129.1	0.0	258.2
98	66.0	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

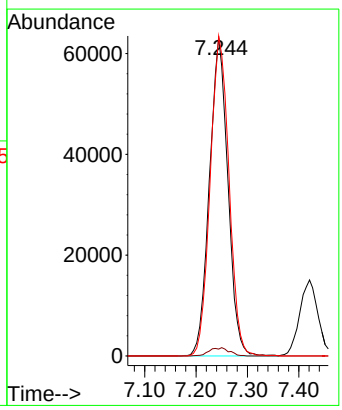


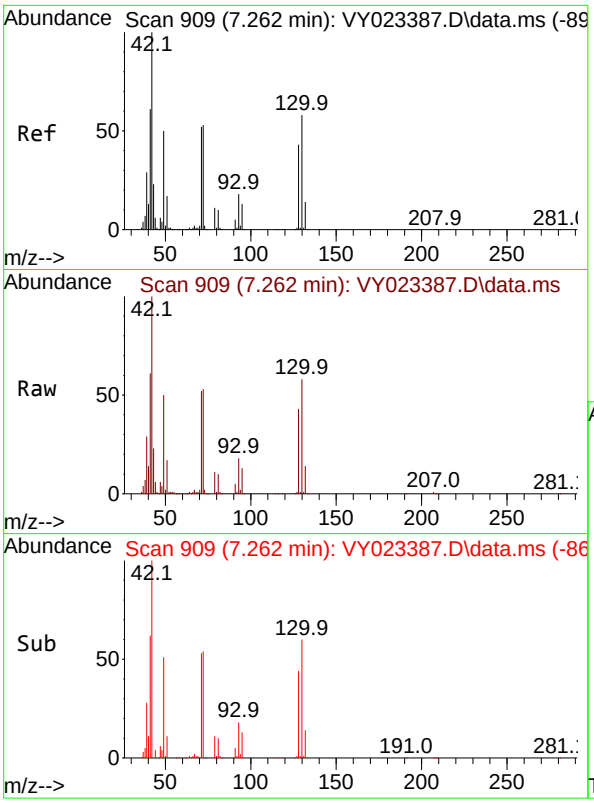


#28
Bromochloromethane
Concen: 40.211 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

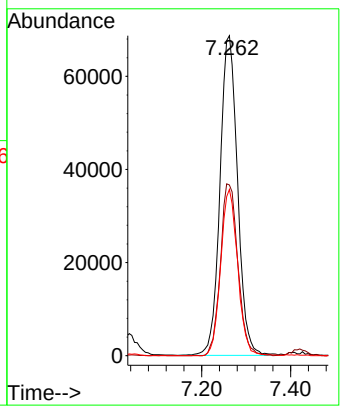




#29
Tetrahydrofuran
Concen: 222.653 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 42 Resp: 18778

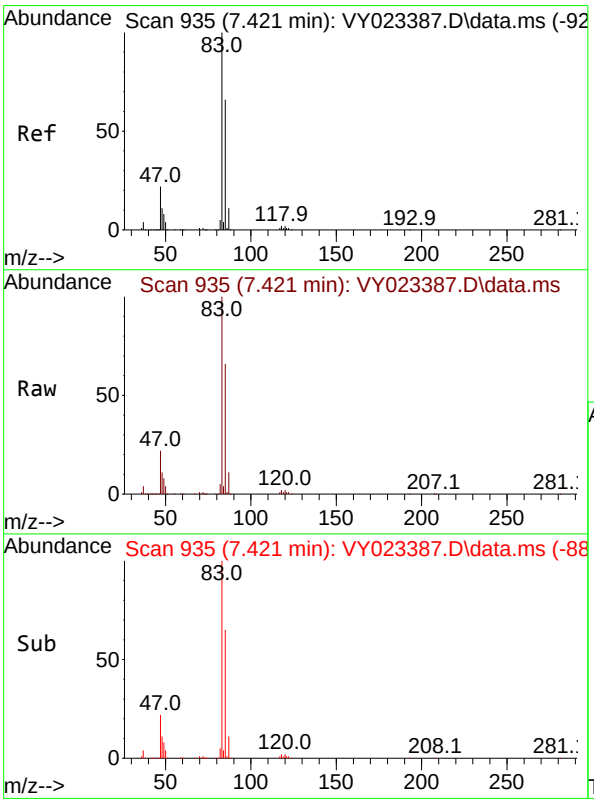
Ion	Ratio	Lower	Upper
42	100		
72	53.8	43.0	64.6
71	50.1	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

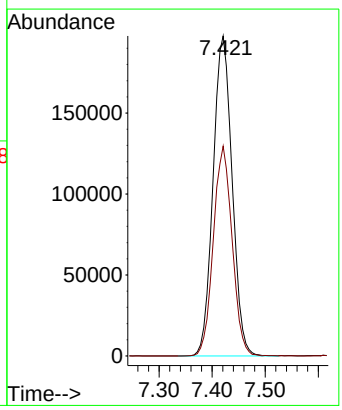
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

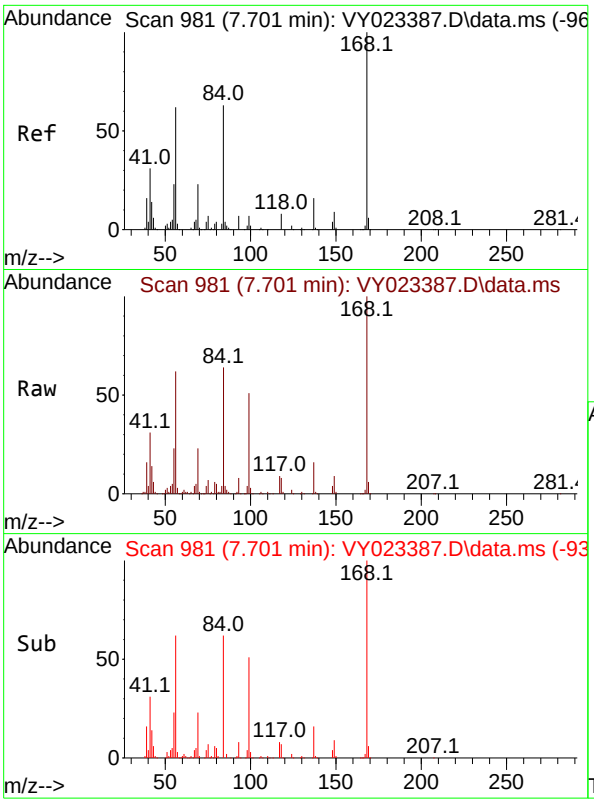


#30
Chloroform
Concen: 45.316 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 83 Resp: 493098

Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.5	78.7

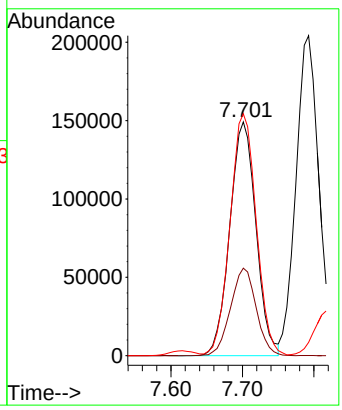




#31
Cyclohexane
Concen: 42.602 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 56 Resp: 37964

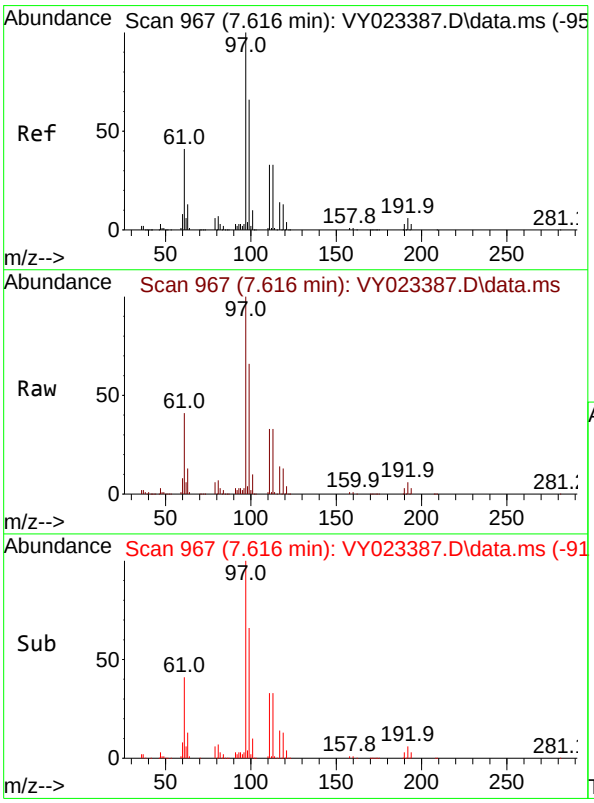
Ion	Ratio	Lower	Upper
56	100		
69	37.5	30.0	45.0
84	101.5	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

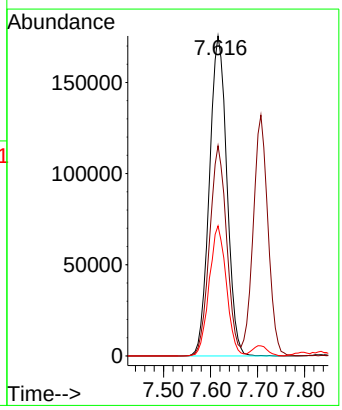
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

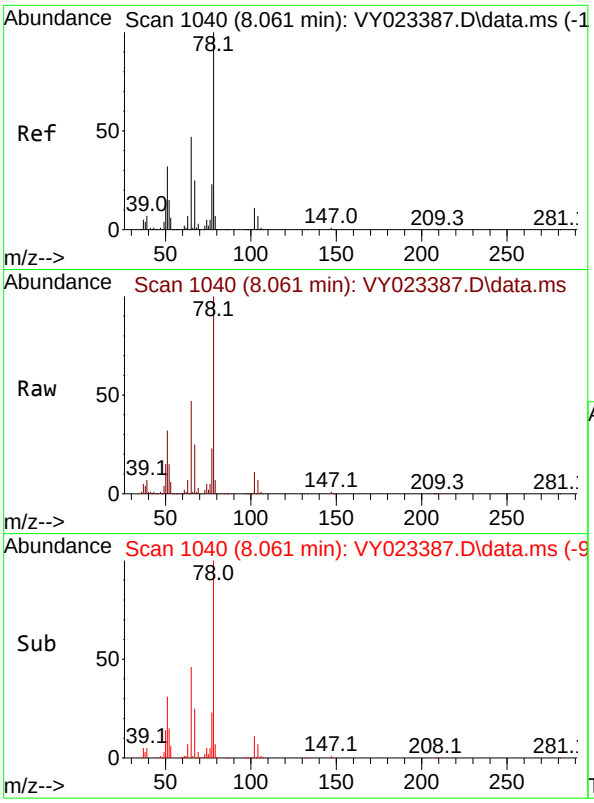


#32
1,1,1-Trichloroethane
Concen: 46.347 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

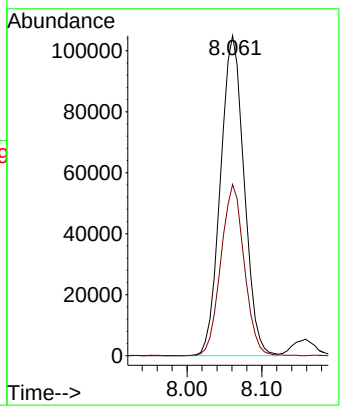




#33
1,2-Dichloroethane-d4
Concen: 45.240 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 65 Resp: 23129

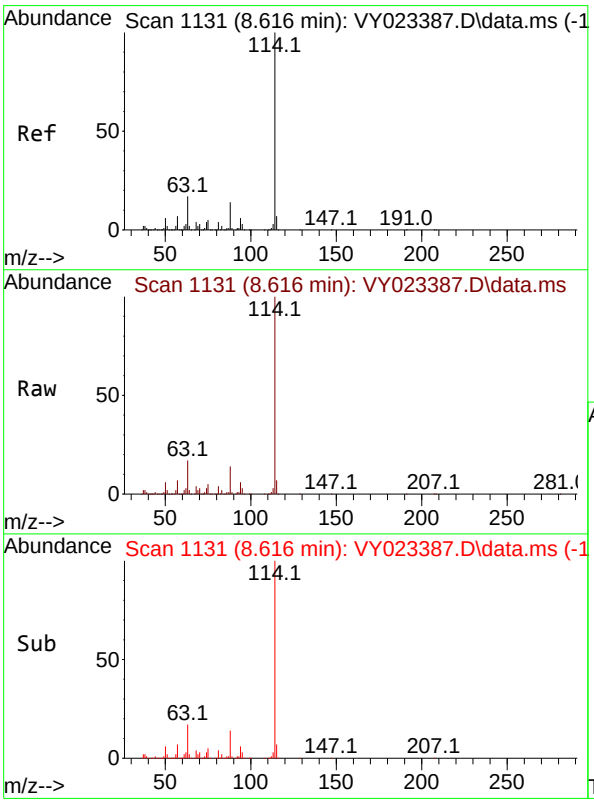
Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

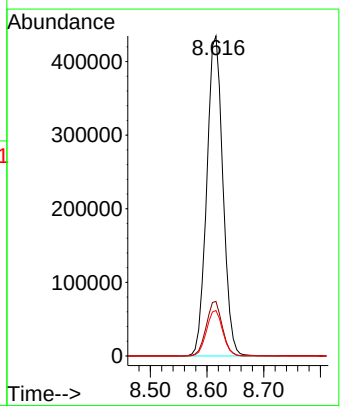
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

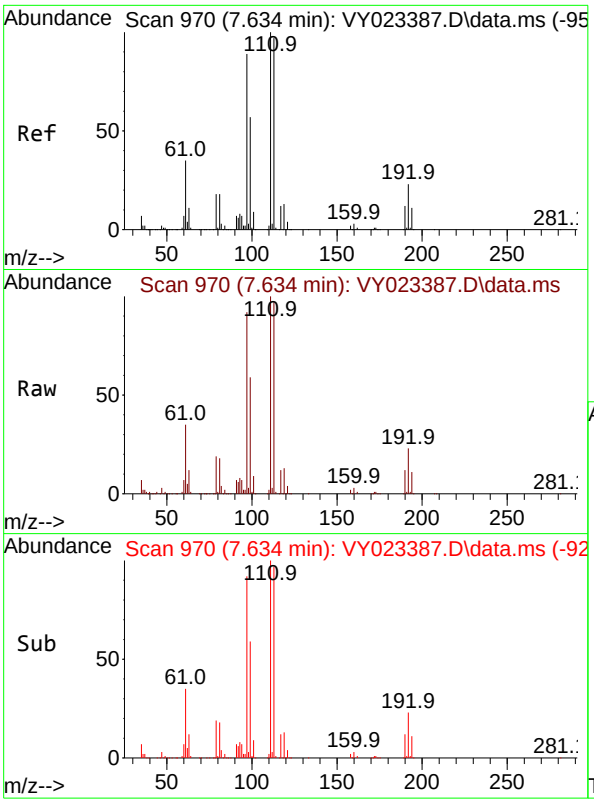


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

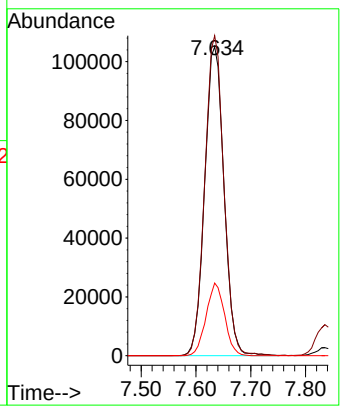




#35
Dibromofluoromethane
Concen: 49.185 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:113 Resp: 25633

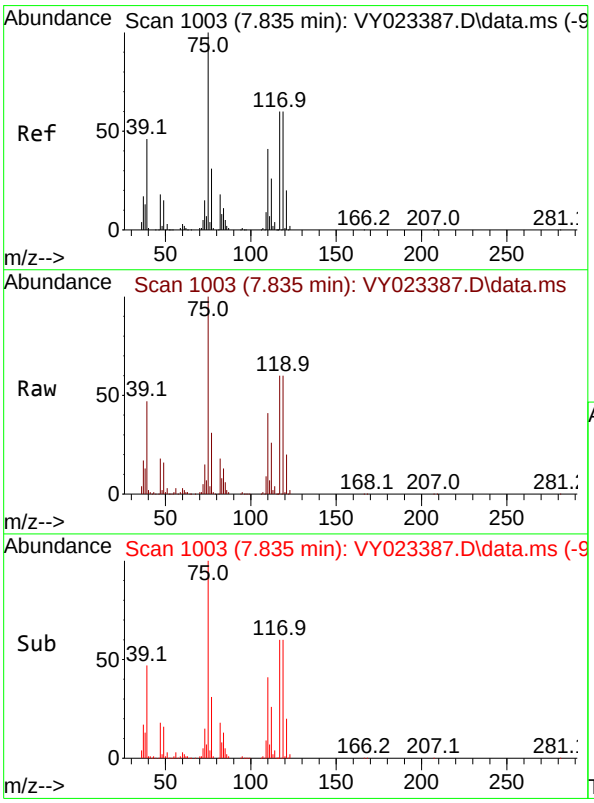
Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.6
192	22.5	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

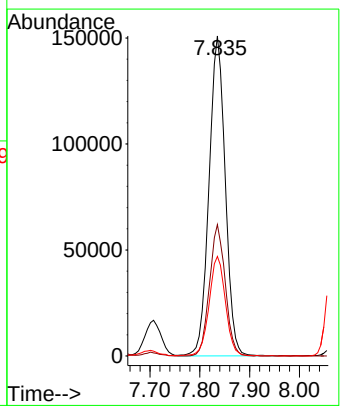
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

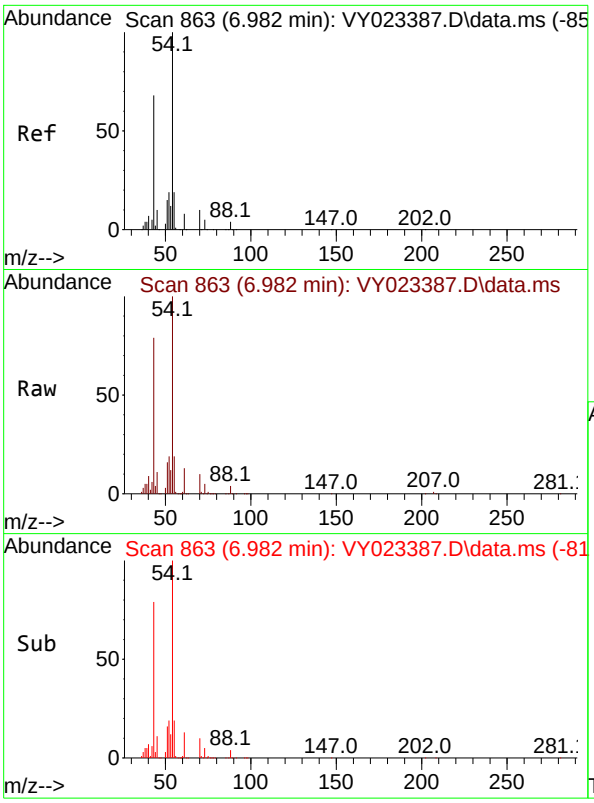


#36
1,1-Dichloropropene
Concen: 46.424 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

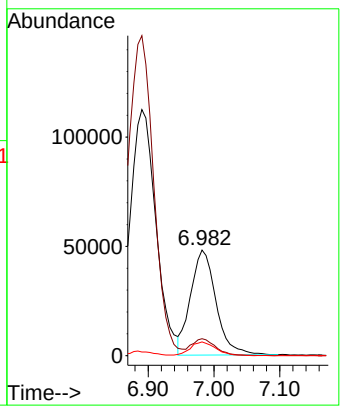




#37
Ethyl Acetate
Concen: 44.394 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 12905

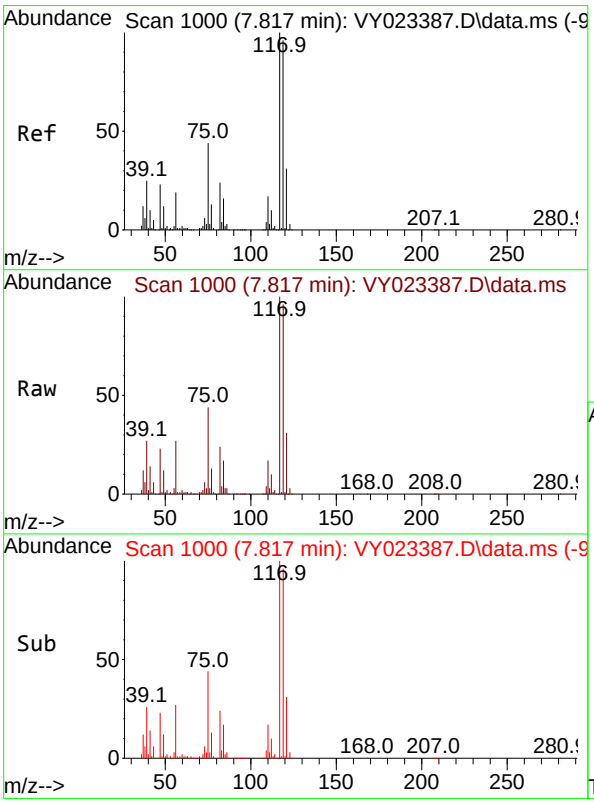
Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.8	17.8
70	13.1	10.5	15.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

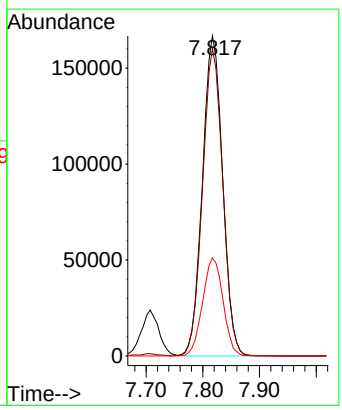
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

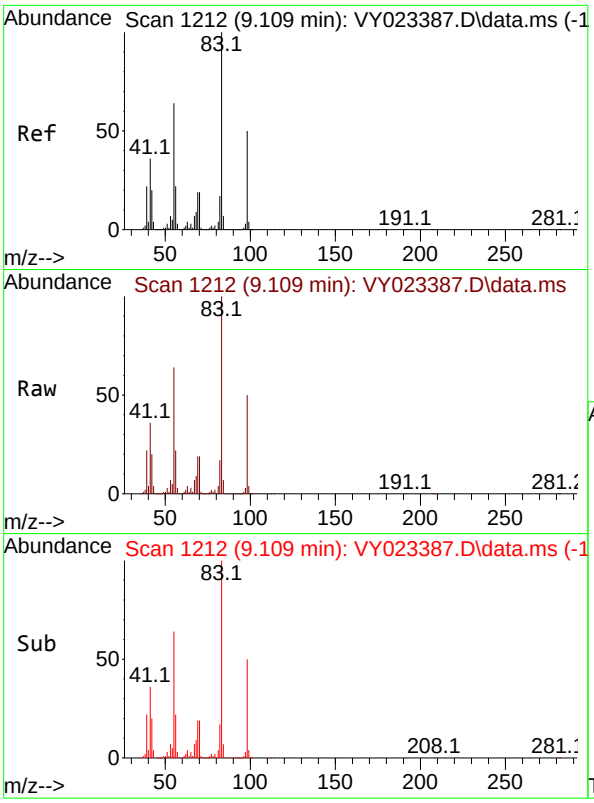


#38
Carbon Tetrachloride
Concen: 48.374 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

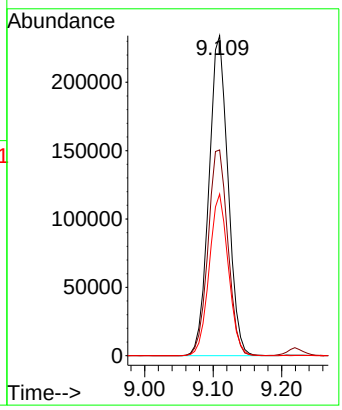
Tgt Ion: 83 Resp: 45295

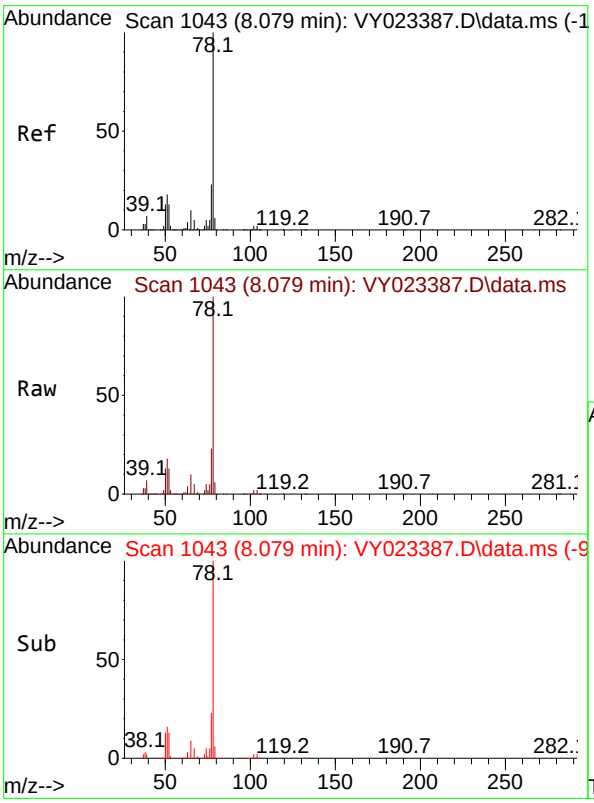
Ion	Ratio	Lower	Upper
83	100		
55	64.3	51.4	77.2
98	50.5	40.4	60.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

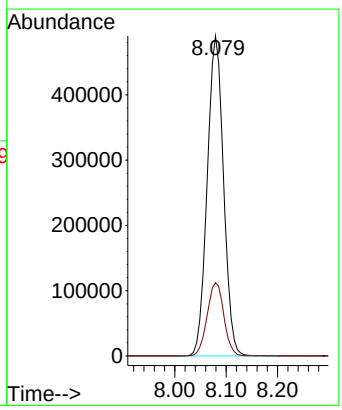


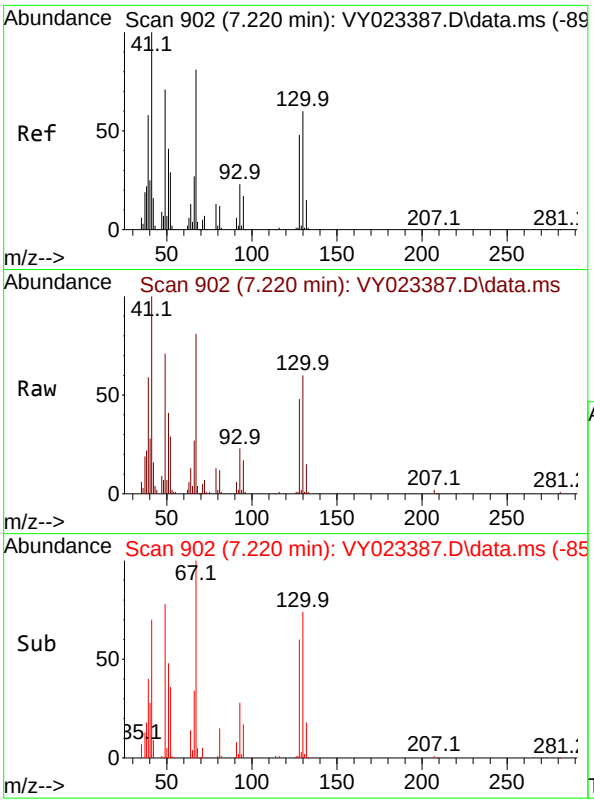


#40
Benzene
Concen: 47.154 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 78 Resp: 1080883

Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.3	27.5

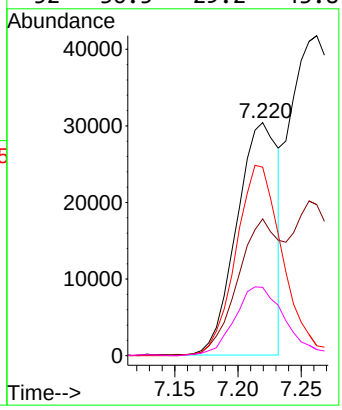




#41
Methacrylonitrile
Concen: 45.399 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 41 Resp: 6854

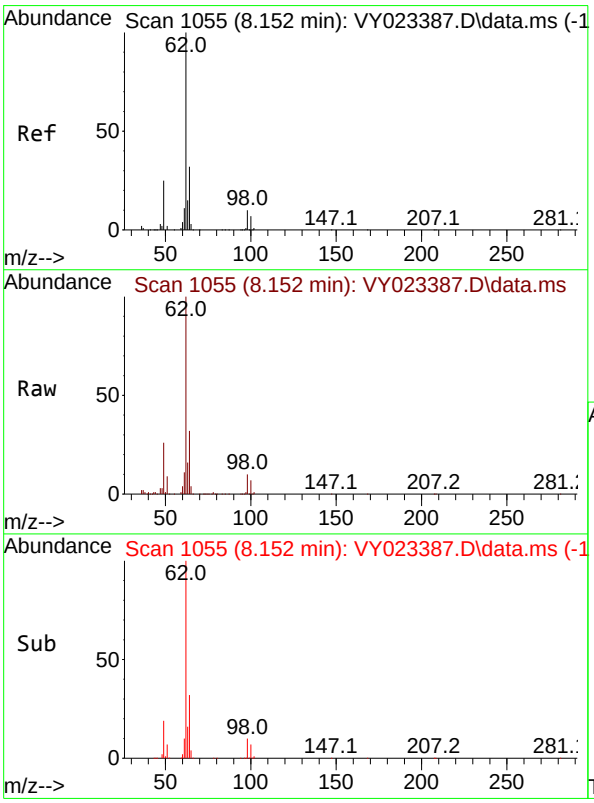
Ion	Ratio	Lower	Upper
41	100		
39	65.3	52.2	78.4
67	93.6	74.9	112.3
52	36.5	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

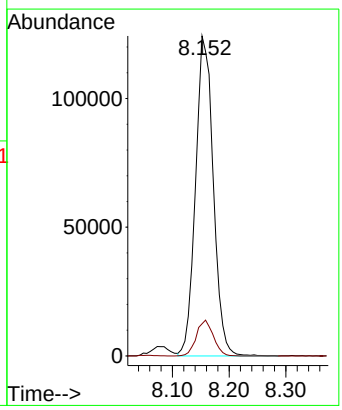
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

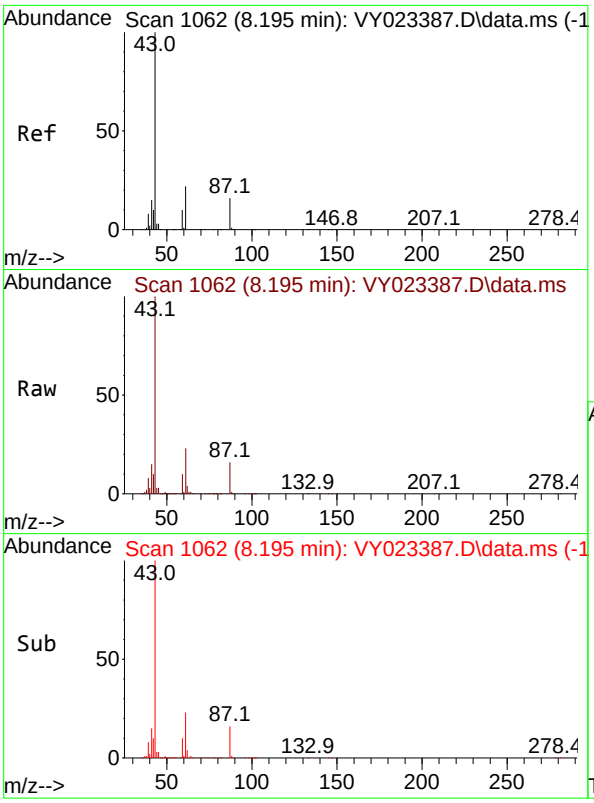


#42
1,2-Dichloroethane
Concen: 46.350 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

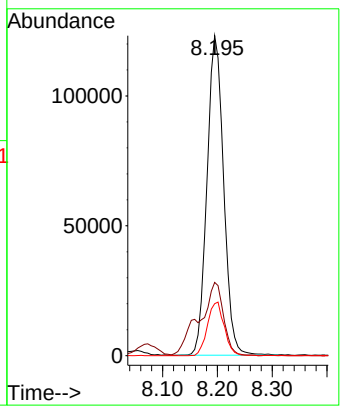
Tgt Ion: 43 Resp: 25904

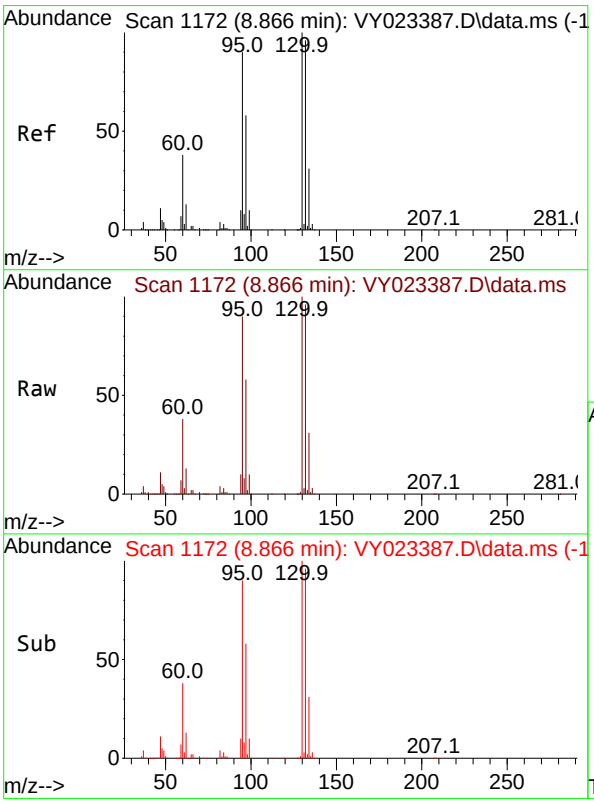
Ion	Ratio	Lower	Upper
43	100		
61	22.6	18.1	27.1
87	16.9	13.5	20.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

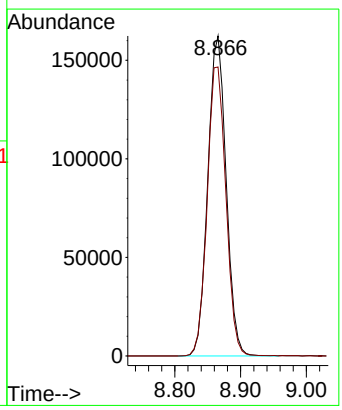


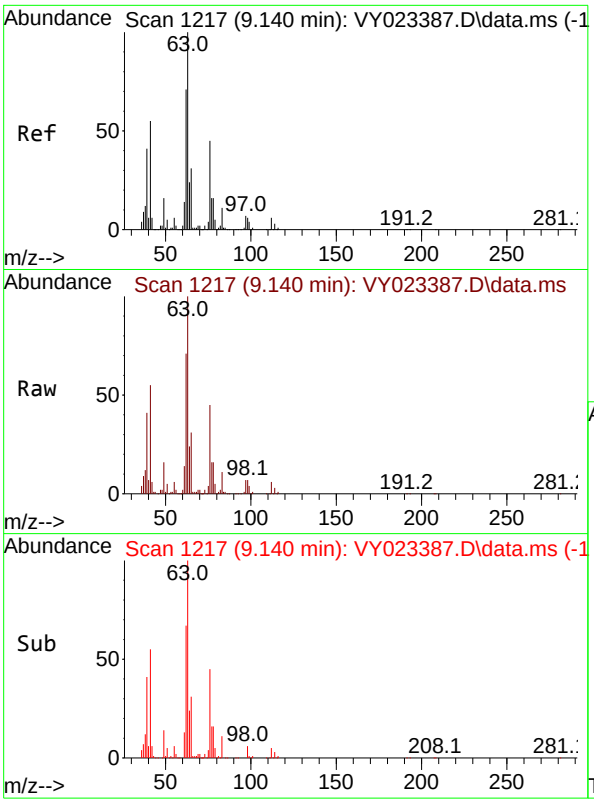


#44
Trichloroethene
Concen: 48.982 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:130 Resp: 315104

Ion	Ratio	Lower	Upper
130	100		
95	90.3	0.0	180.6

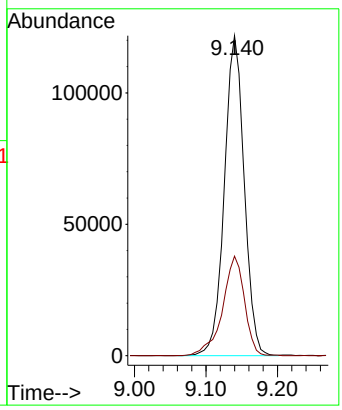




#45
1,2-Dichloropropane
Concen: 45.555 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 63 Resp: 23497

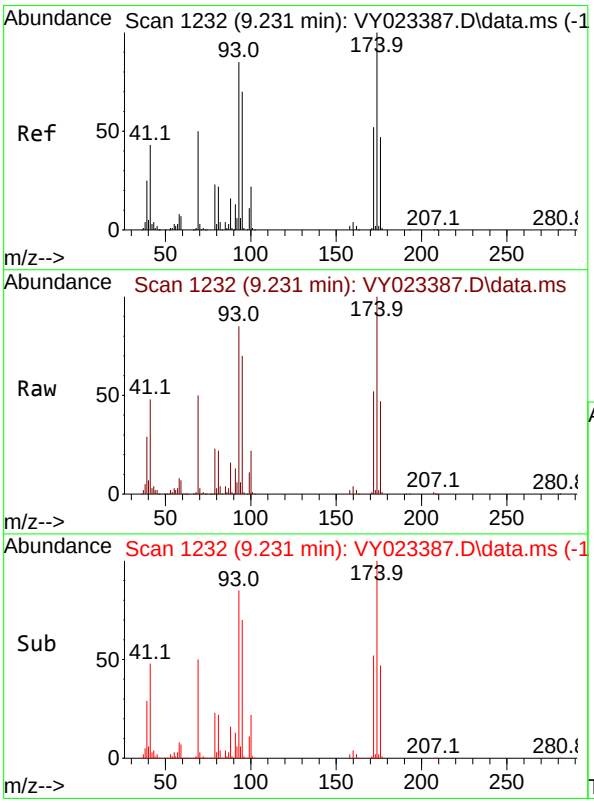
Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

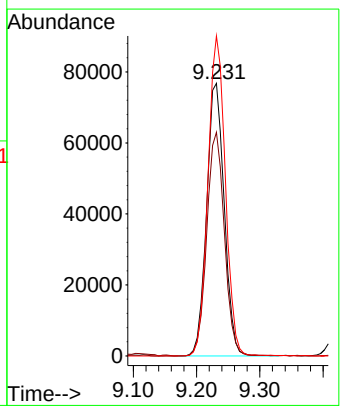
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

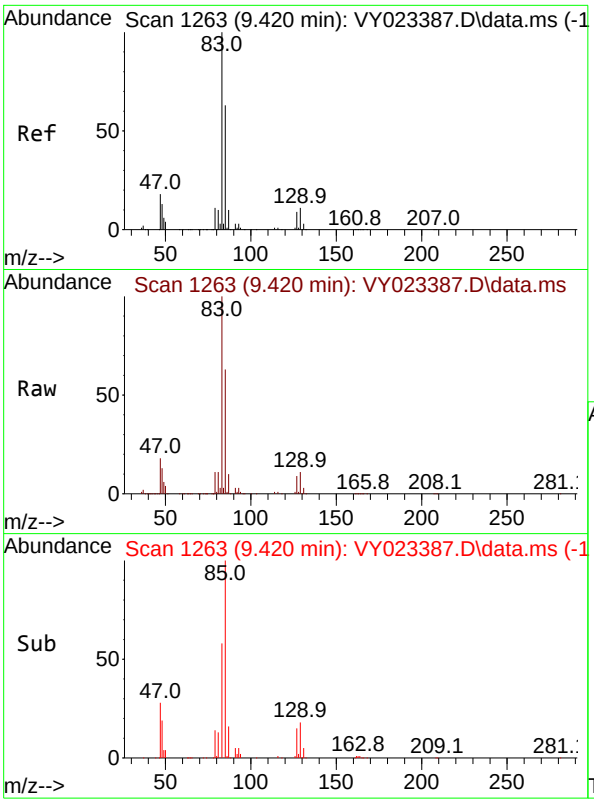


#46
Dibromomethane
Concen: 47.198 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

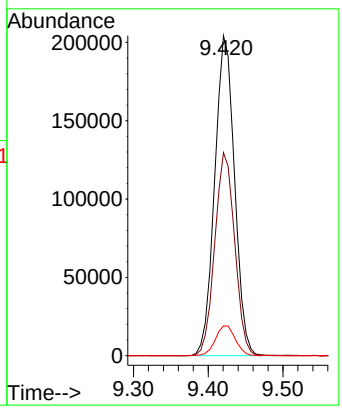




#47
Bromodichloromethane
Concen: 47.482 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 83 Resp: 37708

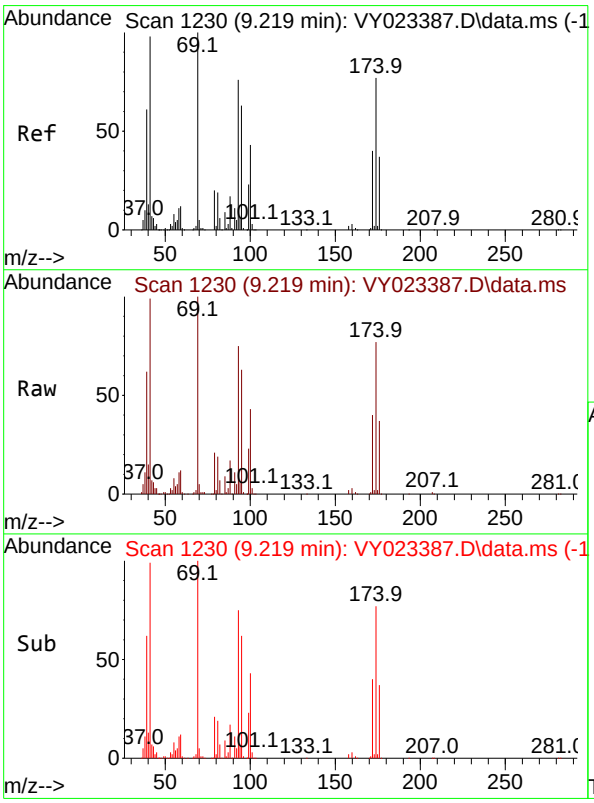
Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.8	76.2
127	9.3	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

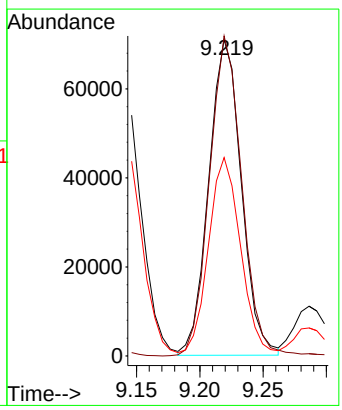
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

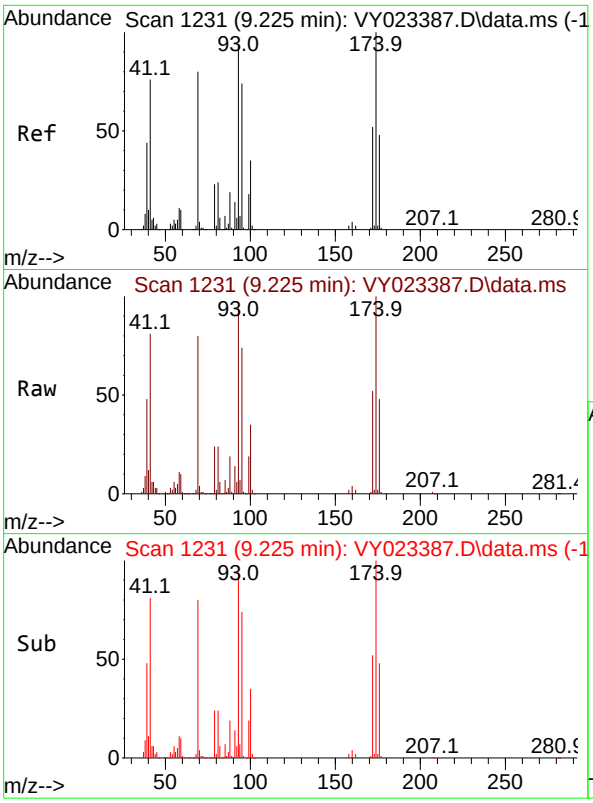


#48
Methyl methacrylate
Concen: 48.027 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

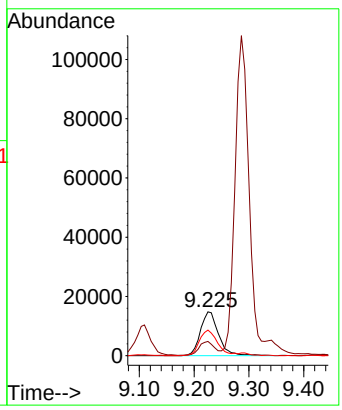
Tgt Ion: 88 Resp: 3405

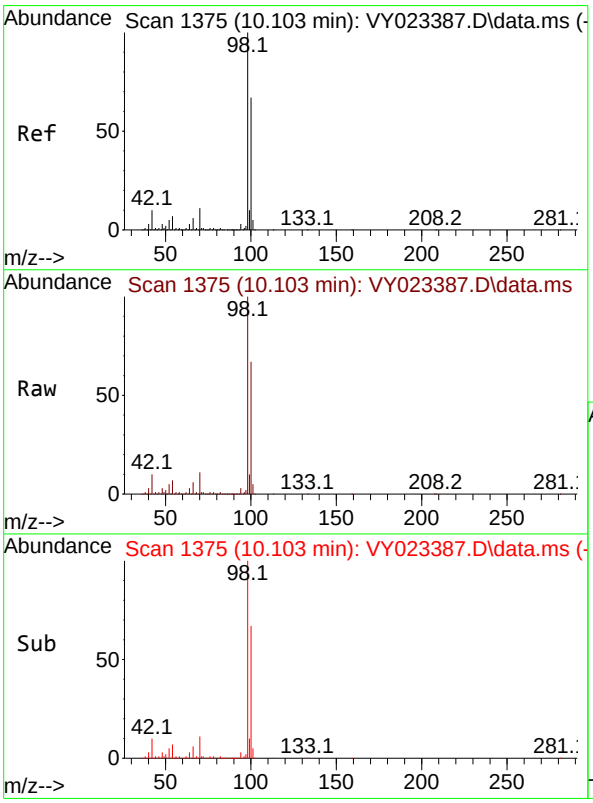
Ion	Ratio	Lower	Upper
88	100		
43	27.3	21.8	32.8
58	58.5	46.8	70.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

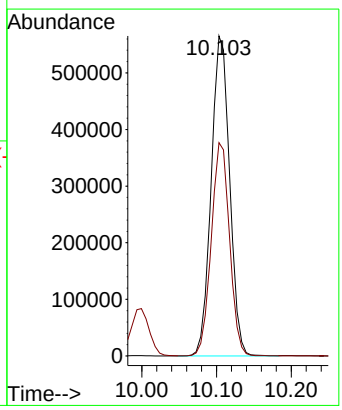


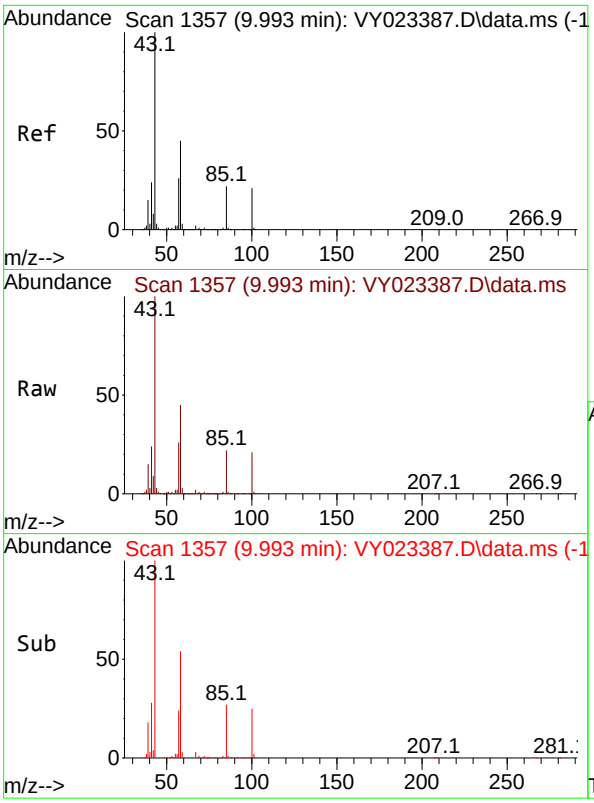


#50
Toluene-d8
Concen: 49.334 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 98 Resp: 969649

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4

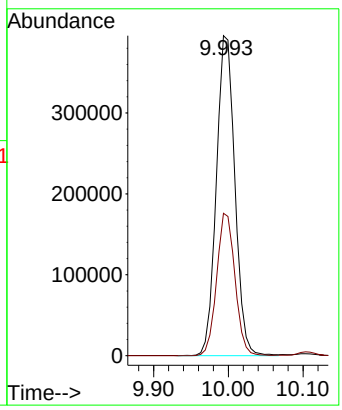




#51
4-Methyl-2-Pentanone
Concen: 235.772 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 43 Resp: 68287

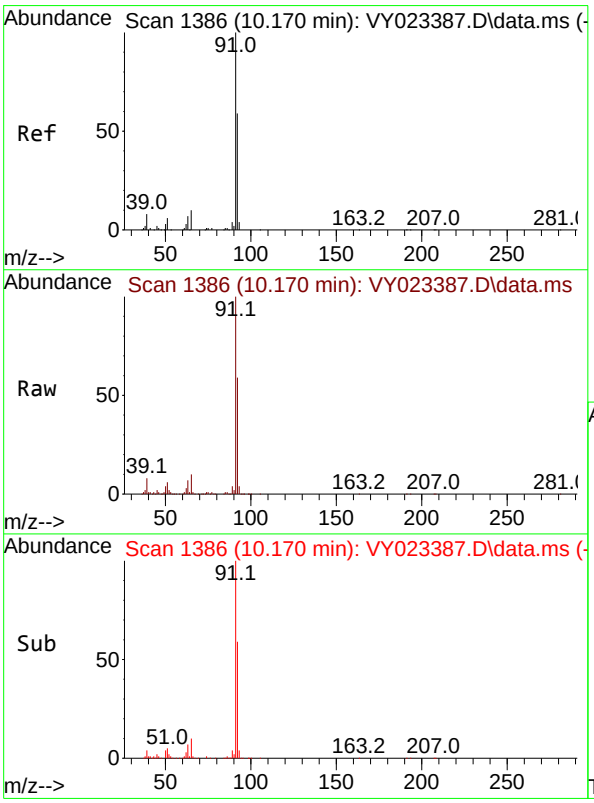
Ion	Ratio	Lower	Upper
43	100		
58	44.1	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

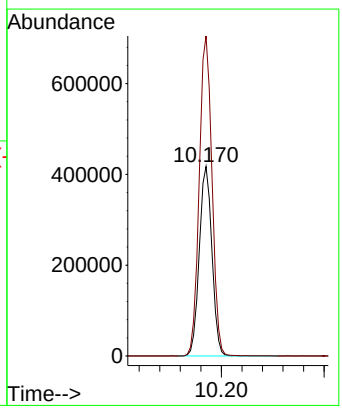
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

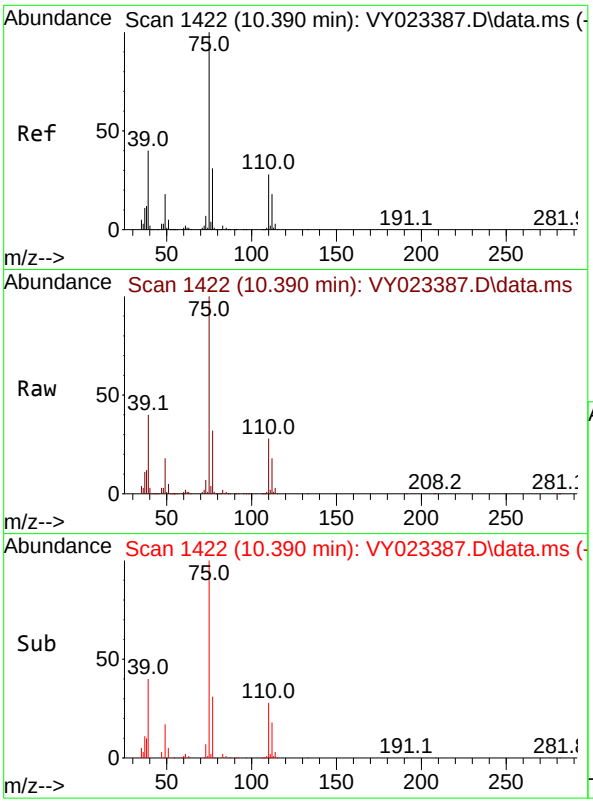


#52
Toluene
Concen: 48.824 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 92 Resp: 710404

Ion	Ratio	Lower	Upper
92	100		
91	170.5	136.4	204.6

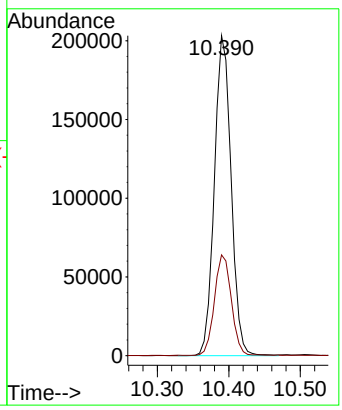




#53
t-1,3-Dichloropropene
Concen: 48.438 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 33039

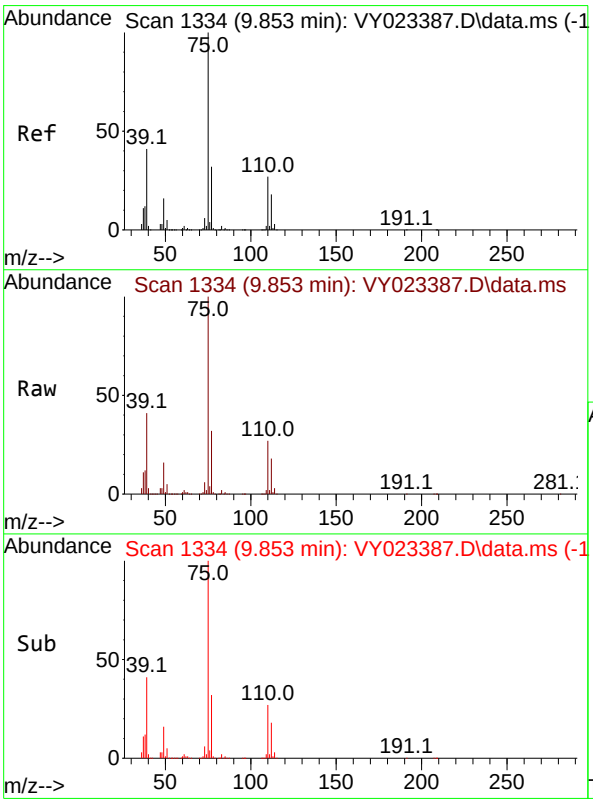
Ion	Ratio	Lower	Upper
75	100		
77	31.4	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

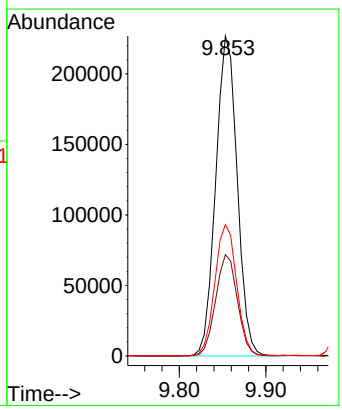
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

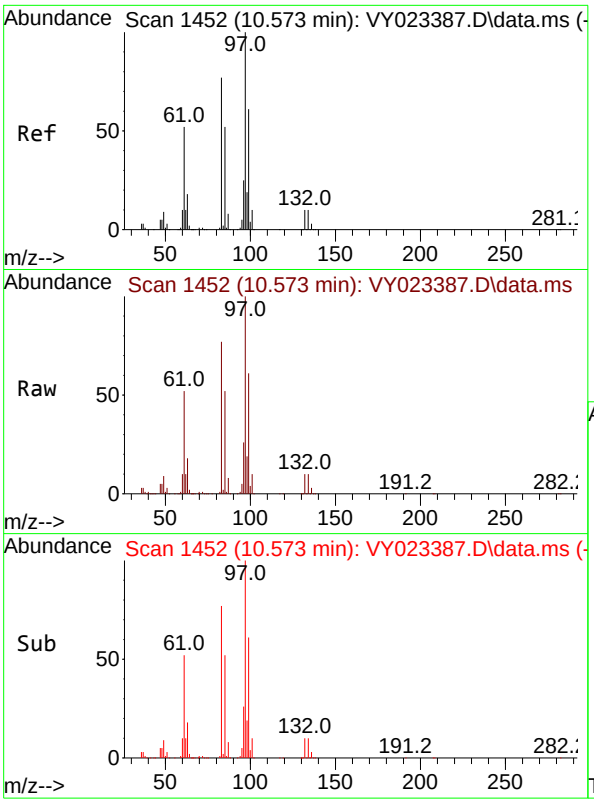


#54
cis-1,3-Dichloropropene
Concen: 47.910 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

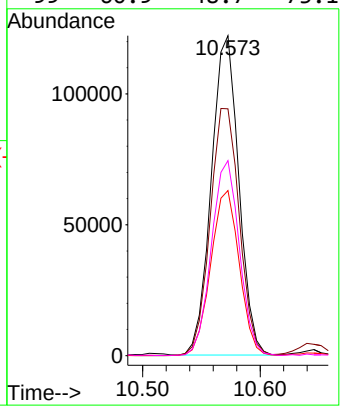




#55
1,1,2-Trichloroethane
Concen: 47.296 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 97 Resp: 19847

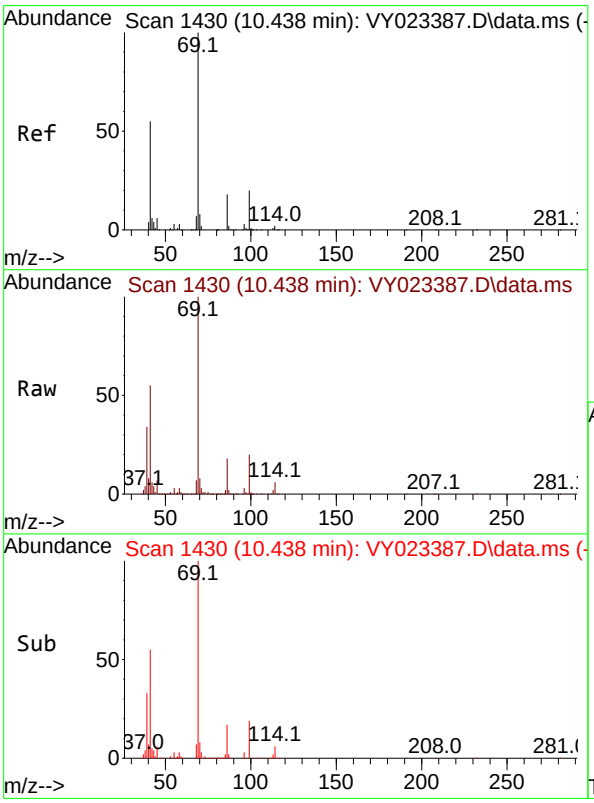
Ion	Ratio	Lower	Upper
97	100		
83	77.2	61.8	92.6
85	51.6	41.3	61.9
99	60.9	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

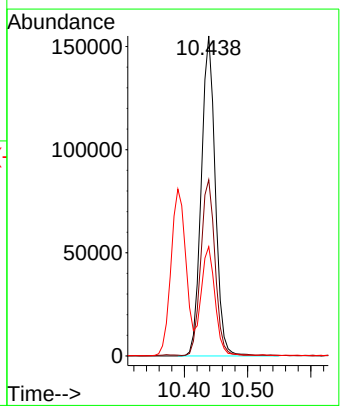
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

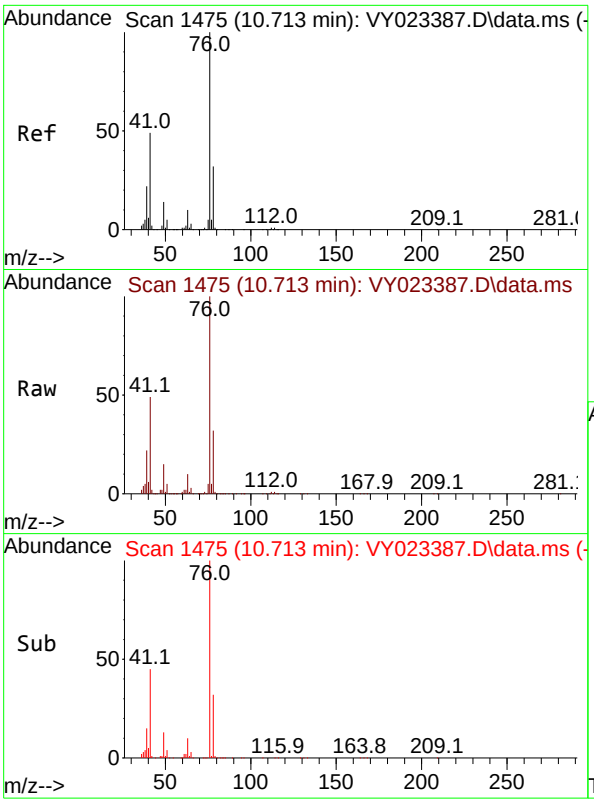


#56
Ethyl methacrylate
Concen: 49.535 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

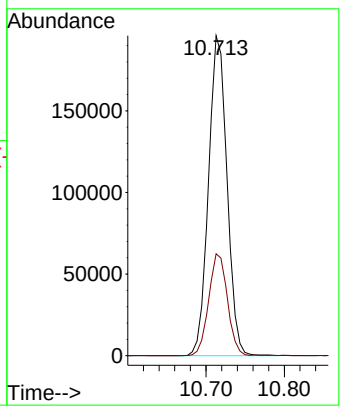




#57
1,3-Dichloropropane
Concen: 47.301 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 76 Resp: 32127(

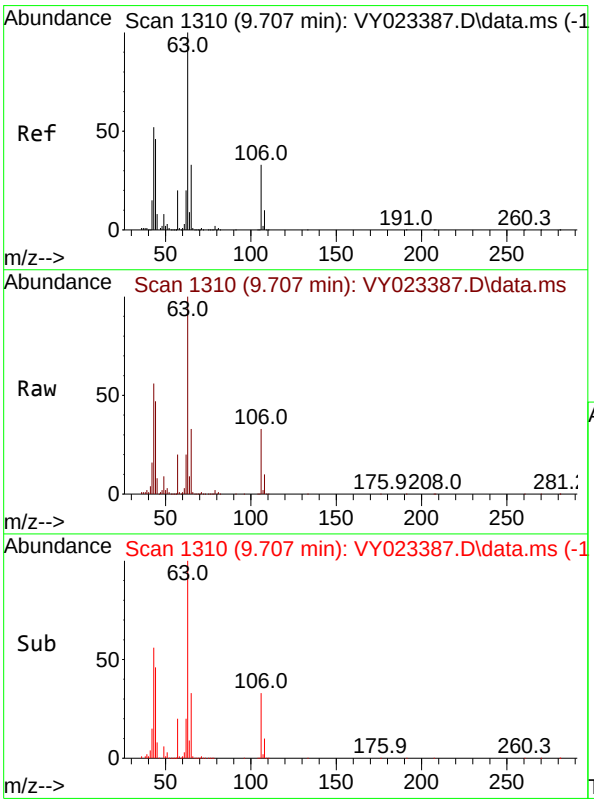
Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

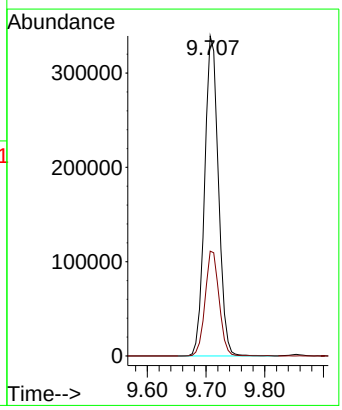
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

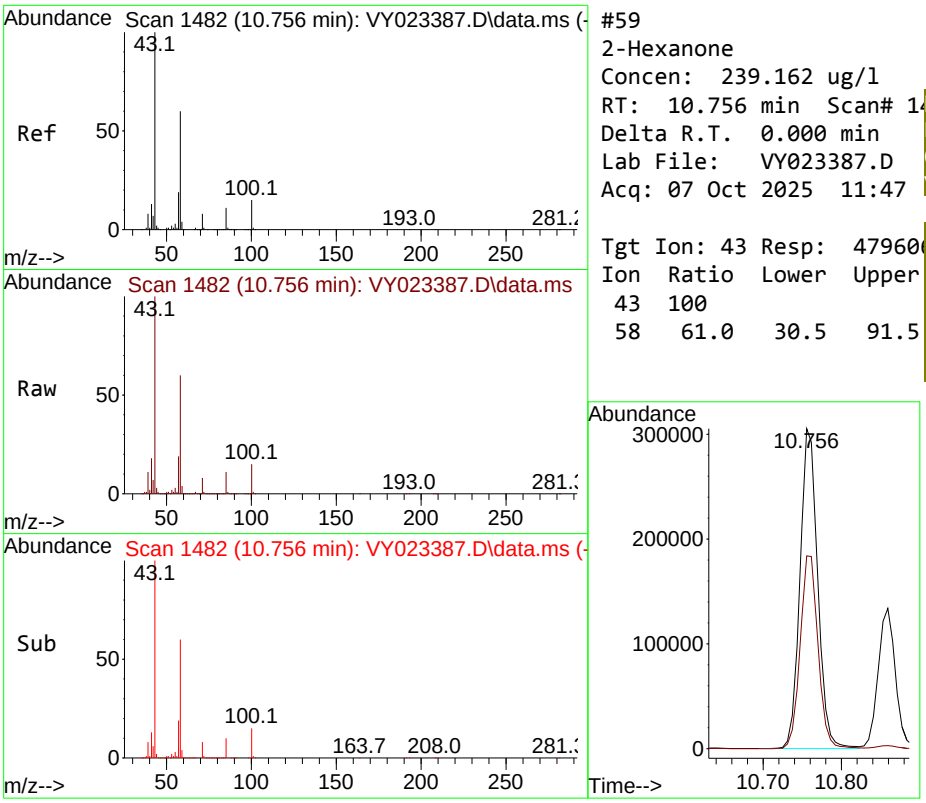


#58
2-Chloroethyl Vinyl ether
Concen: 261.921 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

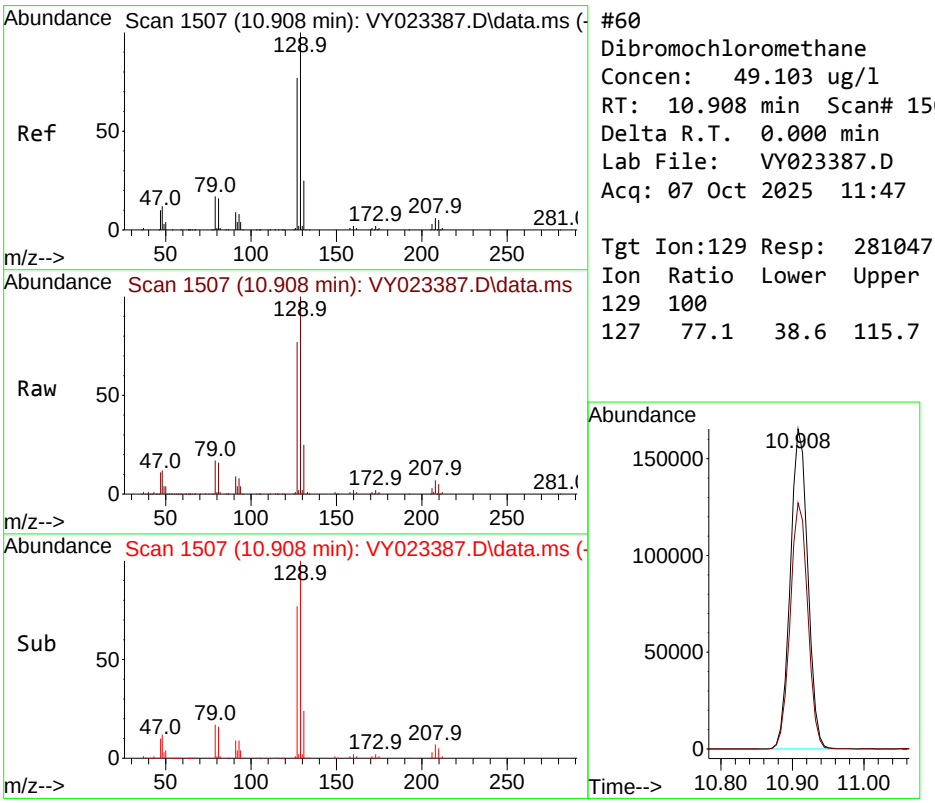
Tgt Ion: 43 Resp: 47960

Ion	Ratio	Lower	Upper
43	100		
58	61.0	30.5	91.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

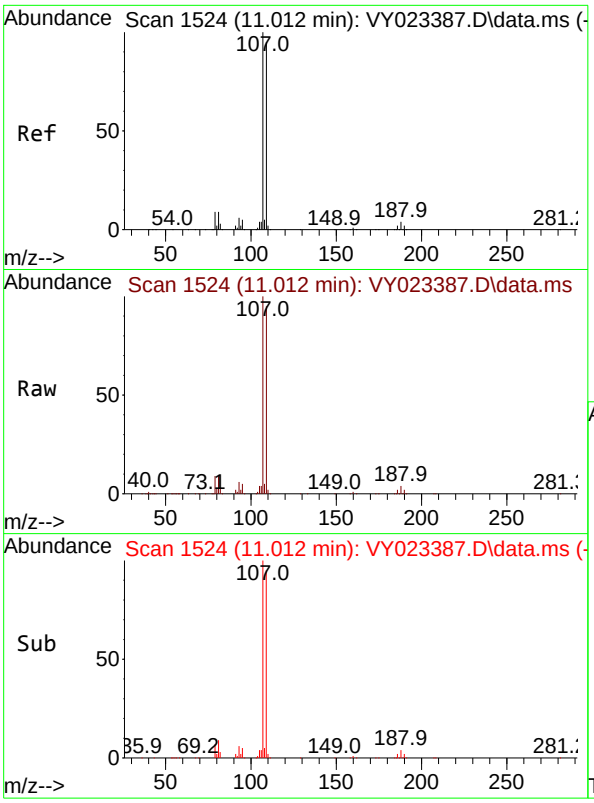
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

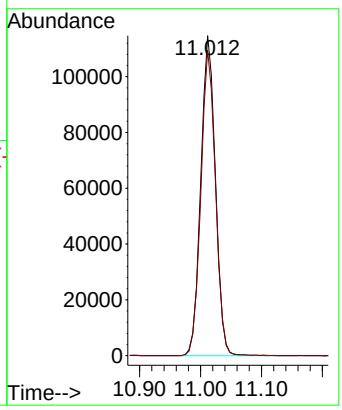
Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.6	115.7



#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

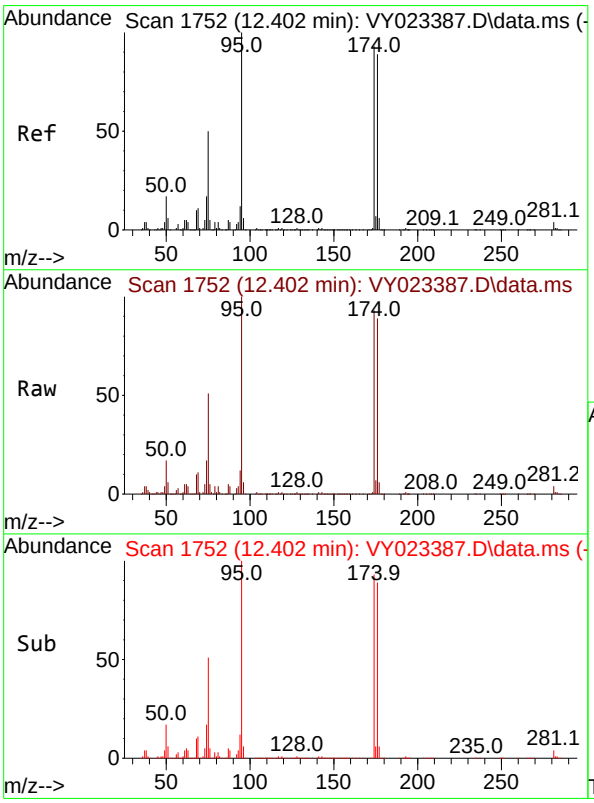
Ion	Ratio	Lower	Upper
107	100		
109	95.1	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

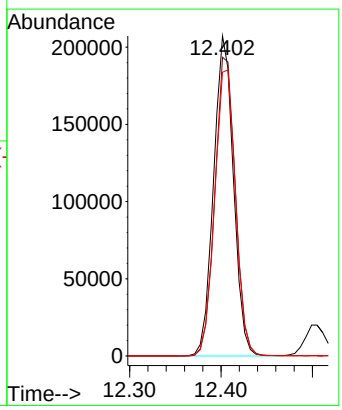
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

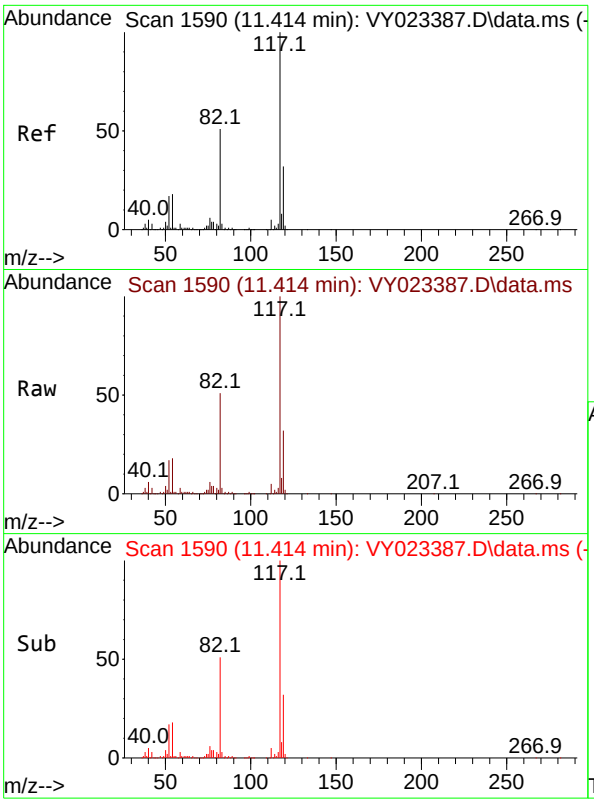


#62
4-Bromofluorobenzene
Concen: 50.546 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

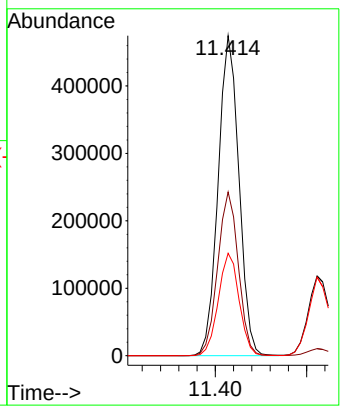




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:117 Resp: 74986

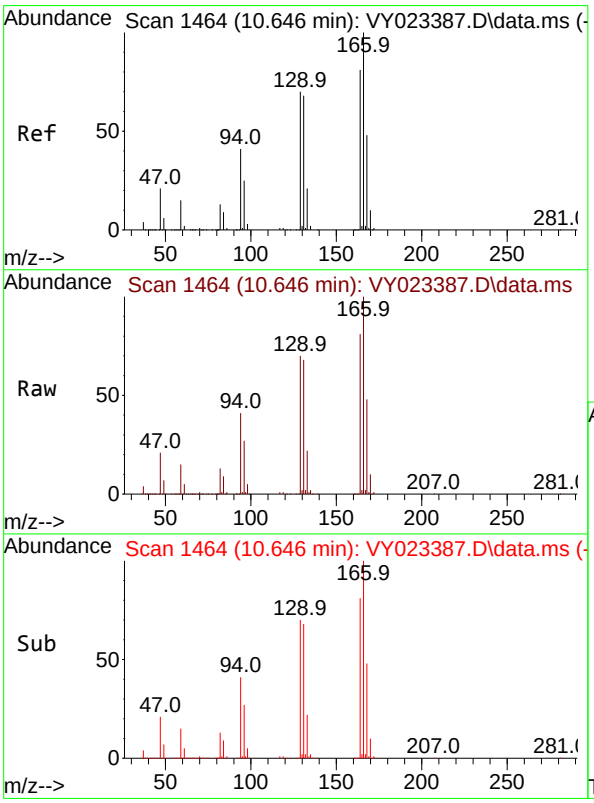
Ion	Ratio	Lower	Upper
117	100		
82	51.2	41.0	61.4
119	32.0	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

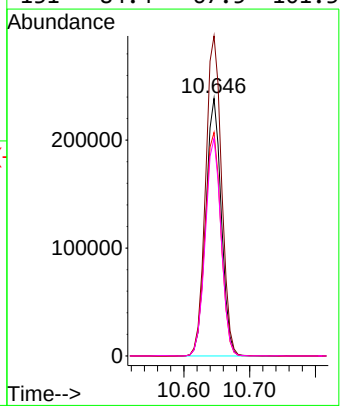
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

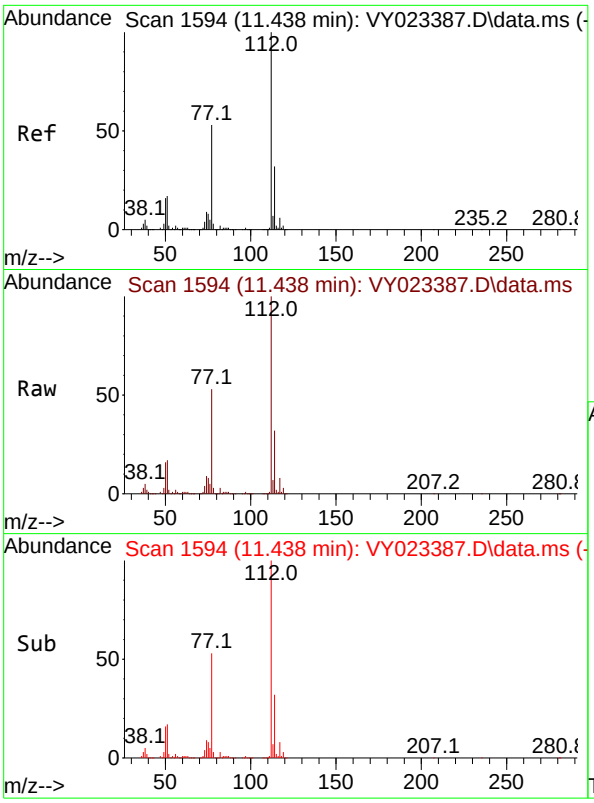


#64
Tetrachloroethene
Concen: 52.264 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

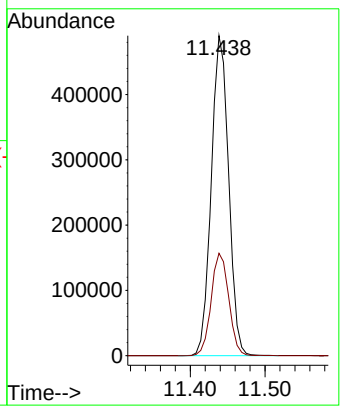




#65
Chlorobenzene
Concen: 48.460 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:112 Resp: 78965

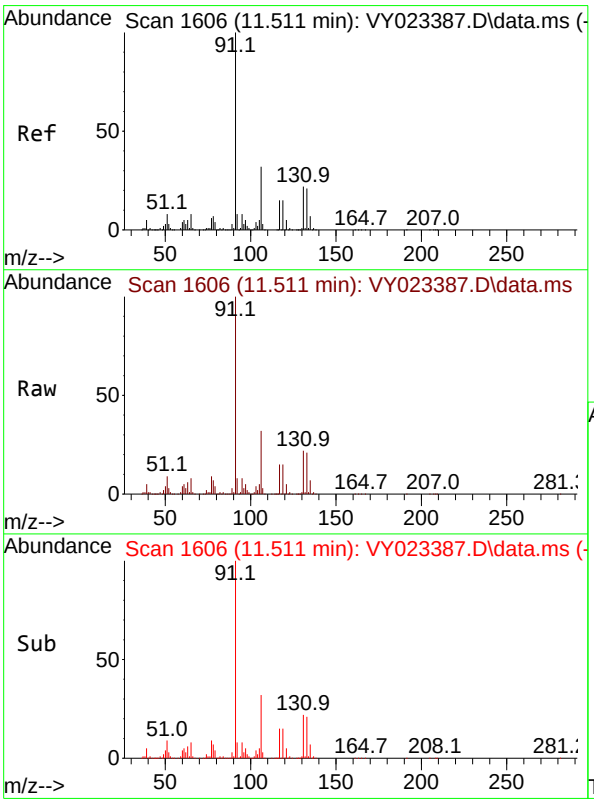
Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

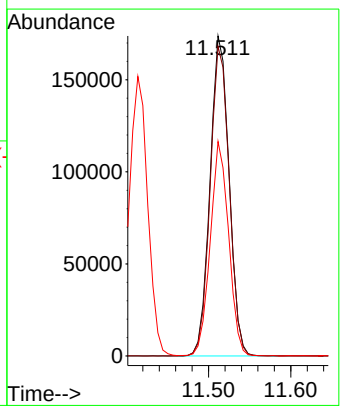
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

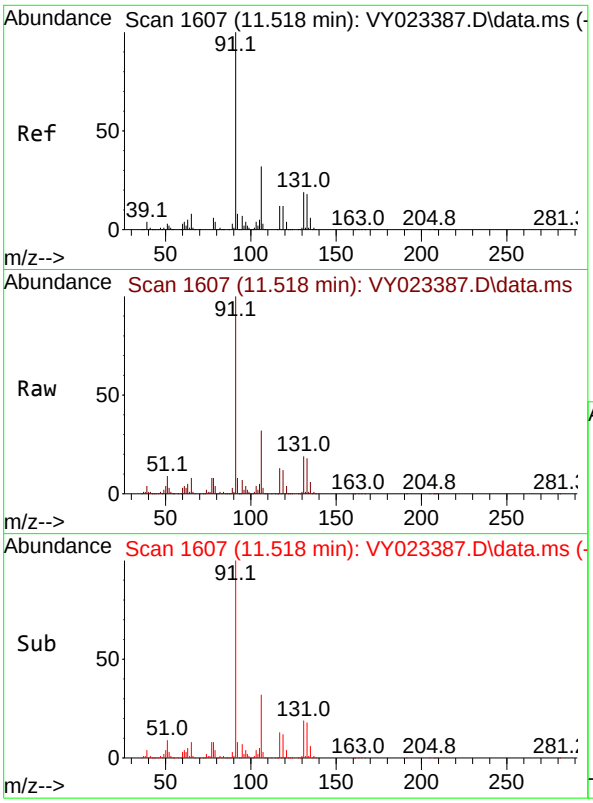


#66
1,1,1,2-Tetrachloroethane
Concen: 48.788 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

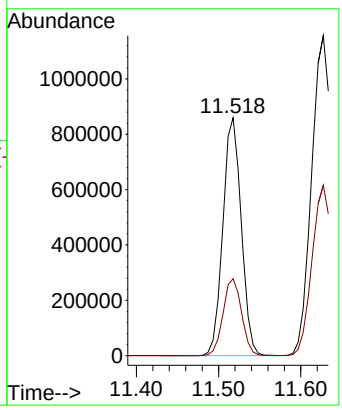




#67
Ethyl Benzene
Concen: 50.099 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 91 Resp: 133235

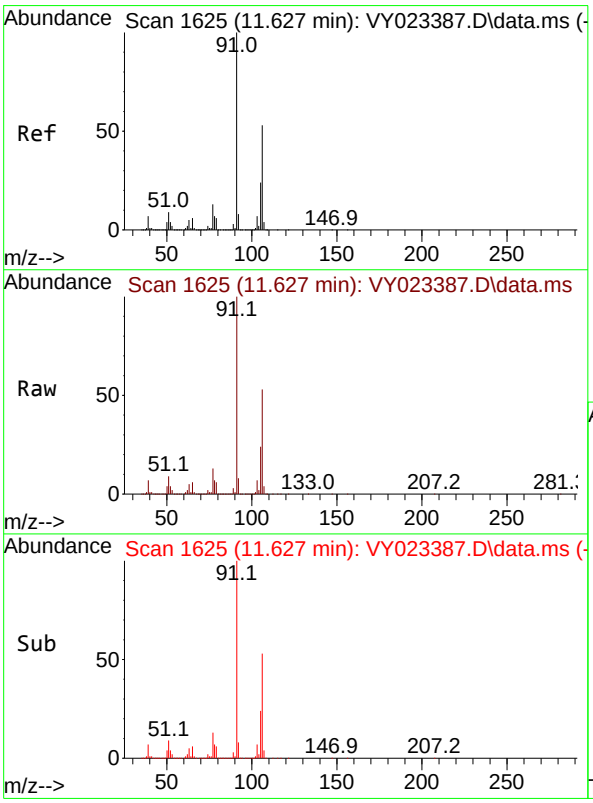
Ion	Ratio	Lower	Upper
91	100		
106	32.3	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

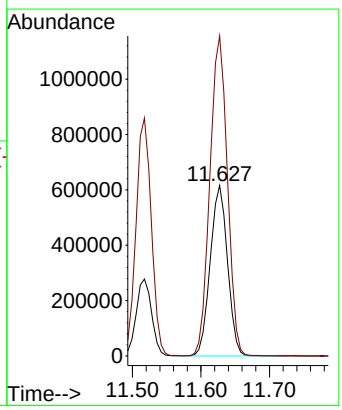
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

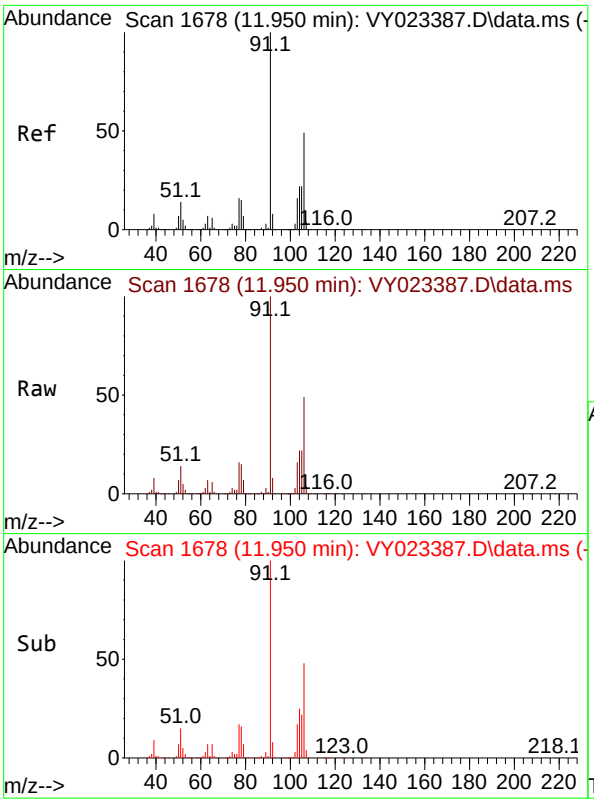


#68
m/p-Xylenes
Concen: 101.092 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

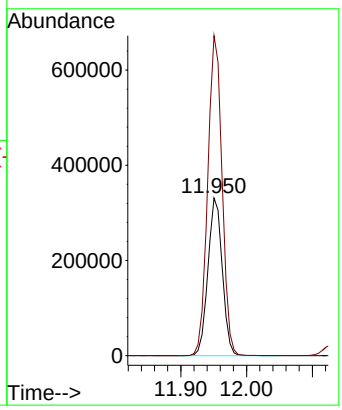
Tgt Ion:106 Resp: 50272

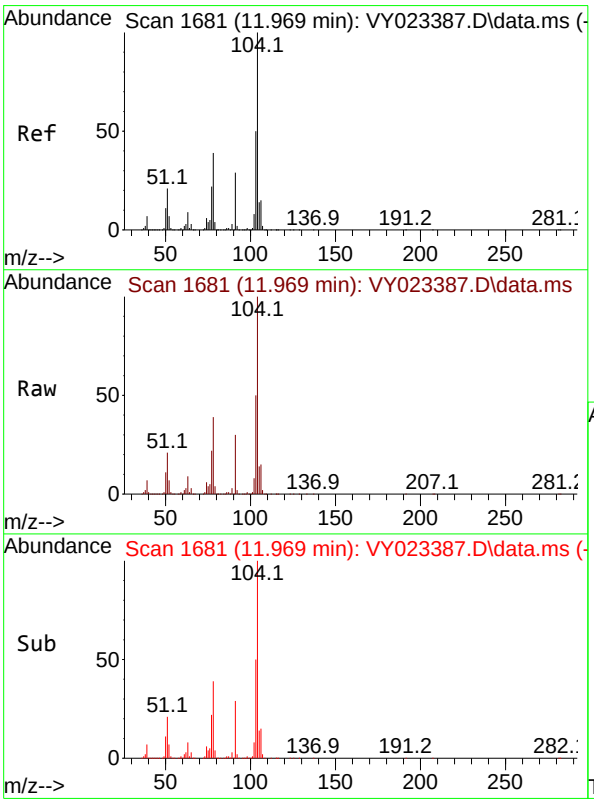
Ion	Ratio	Lower	Upper
106	100		
91	202.7	101.4	304.1

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

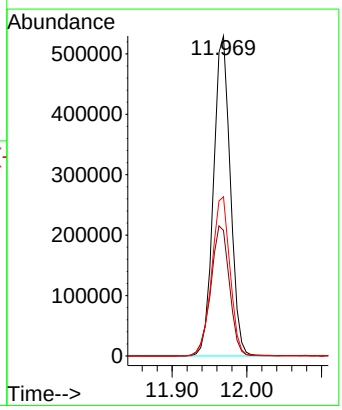


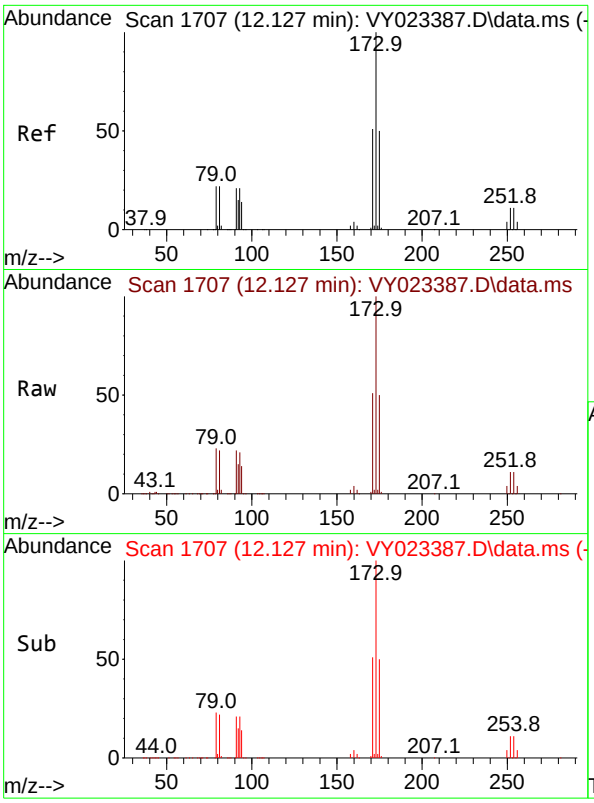


#70
Styrene
Concen: 51.059 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

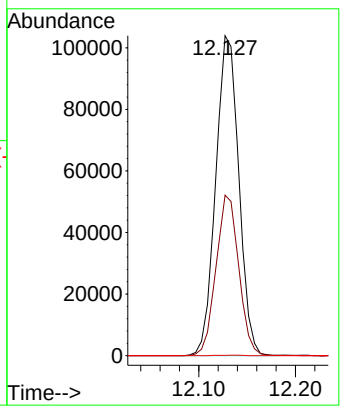




#71
Bromoform
Concen: 50.229 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:173 Resp: 17231

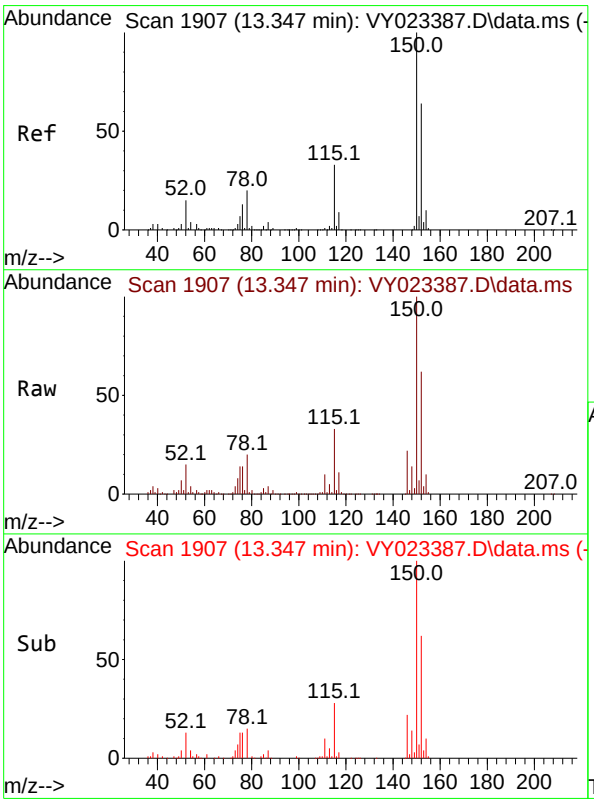
Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.8	74.3
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

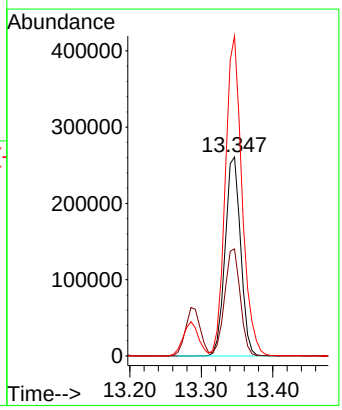
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

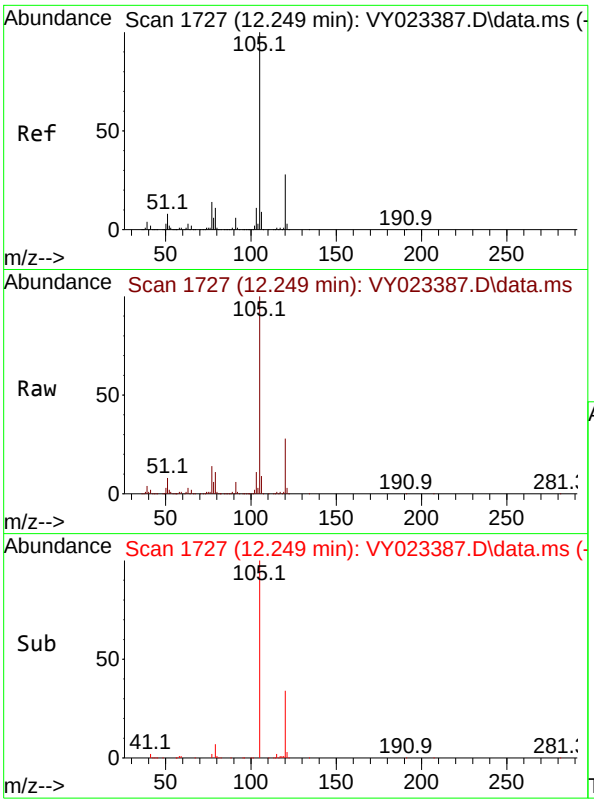


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

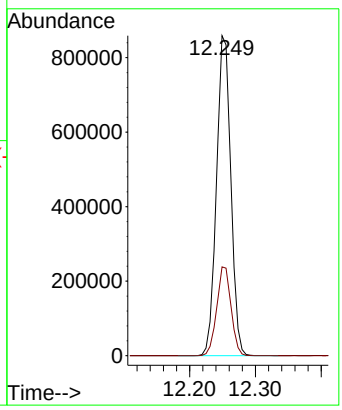




#73
Isopropylbenzene
Concen: 49.803 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:105 Resp: 130100

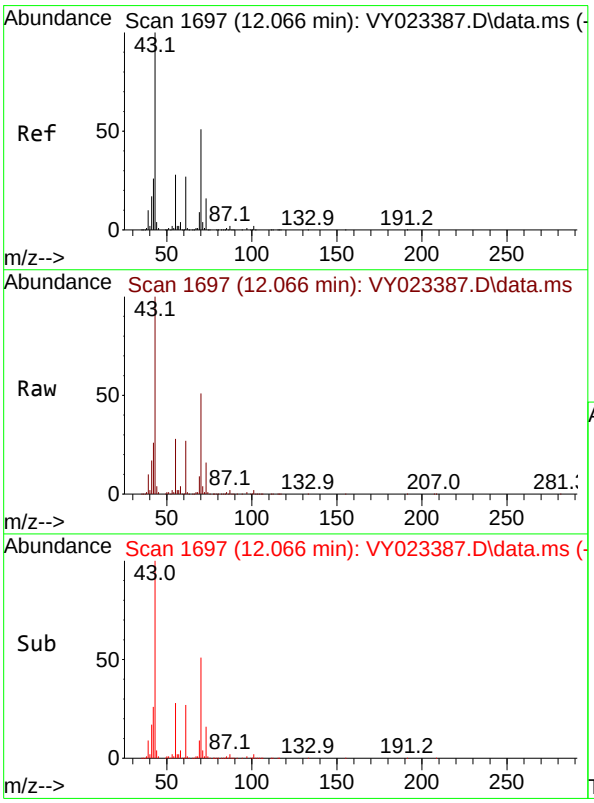
Ion	Ratio	Lower	Upper
105	100		
120	27.8	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

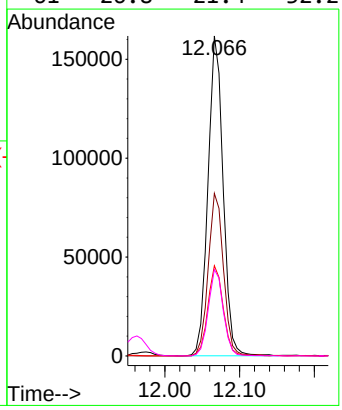
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

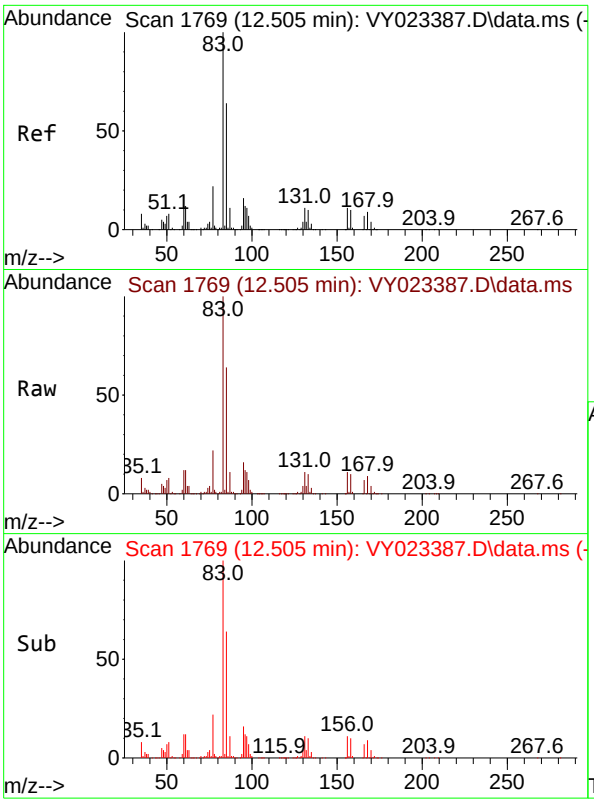


#74
N-amyl acetate
Concen: 46.640 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

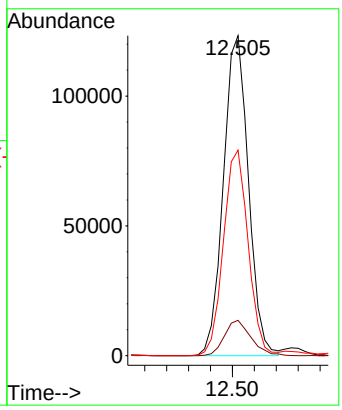




#75
1,1,2,2-Tetrachloroethane
Concen: 44.878 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 83 Resp: 19556

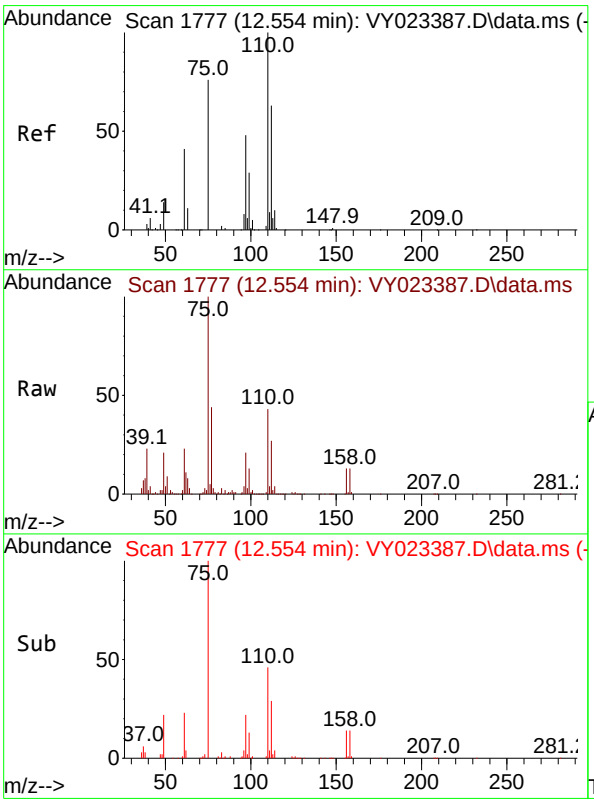
Ion	Ratio	Lower	Upper
83	100		
131	11.7	5.9	17.6
85	63.5	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

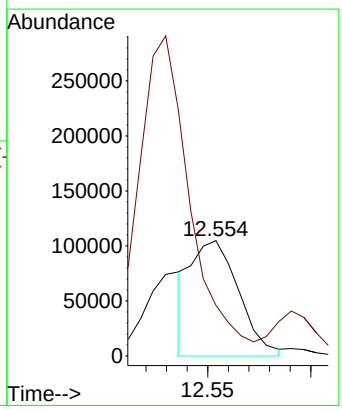
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

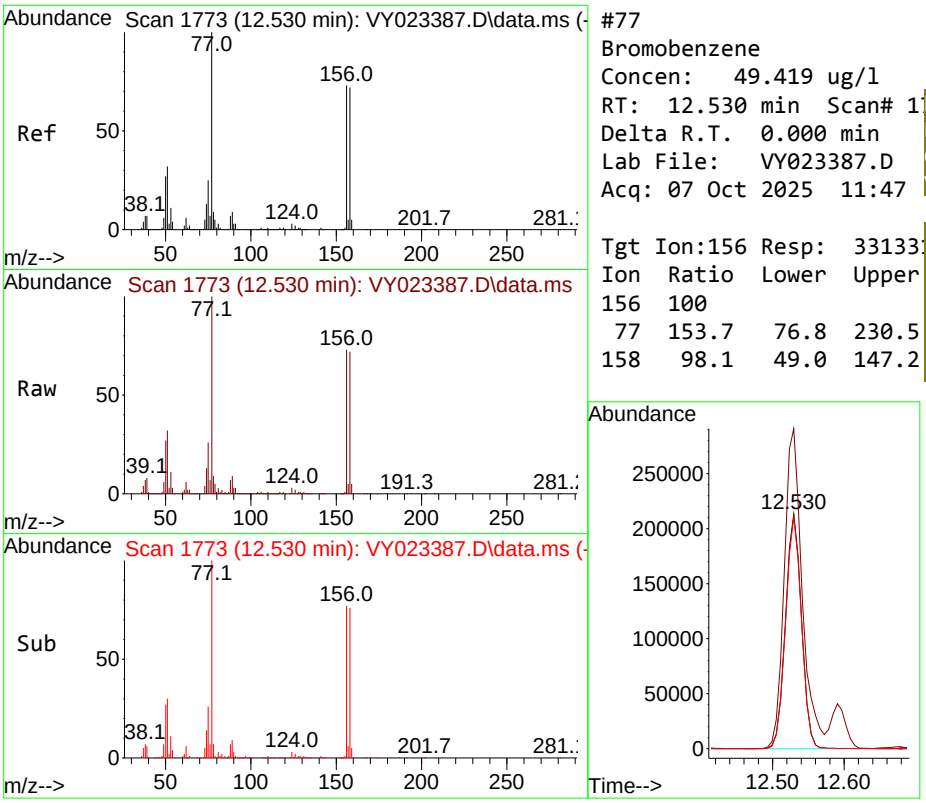


#76
1,2,3-Trichloropropane
Concen: 43.898 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

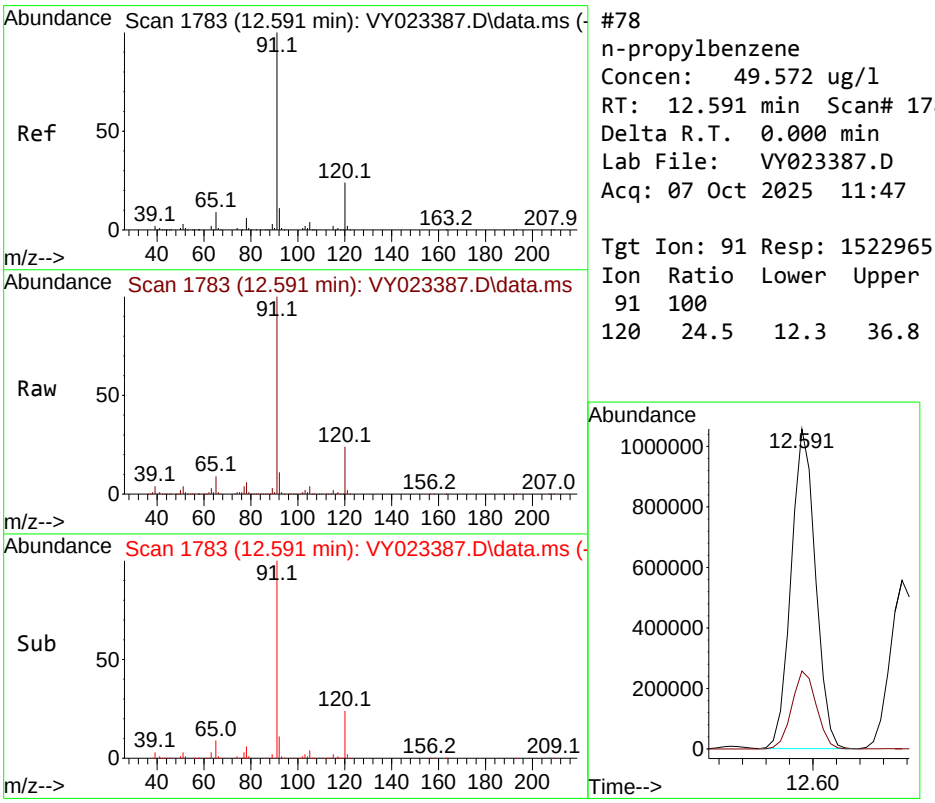
Tgt Ion:156 Resp: 33133

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

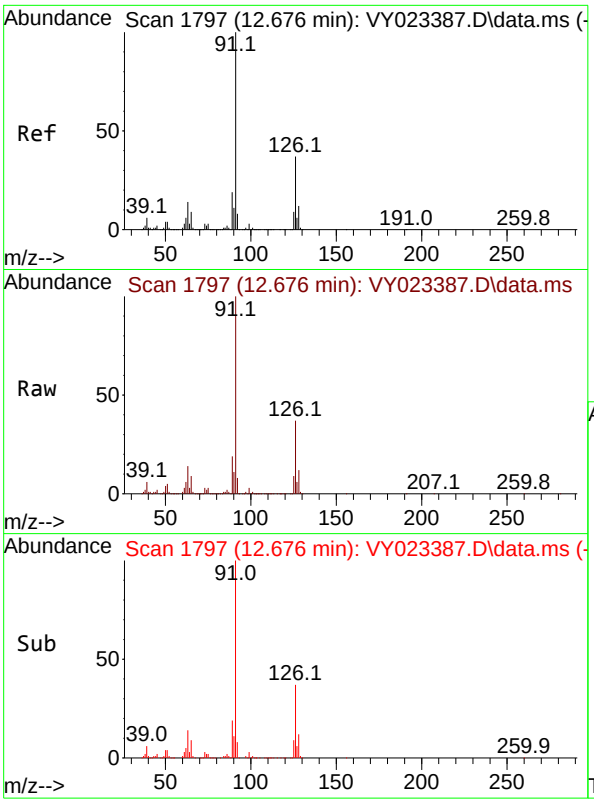
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

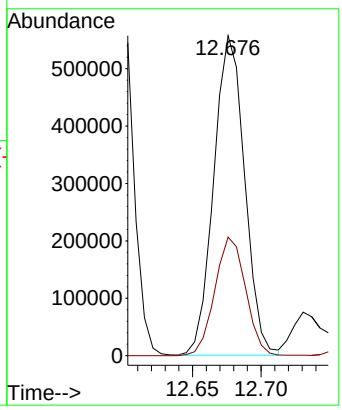
Ion	Ratio	Lower	Upper
91	100		
120	24.5	12.3	36.8



#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

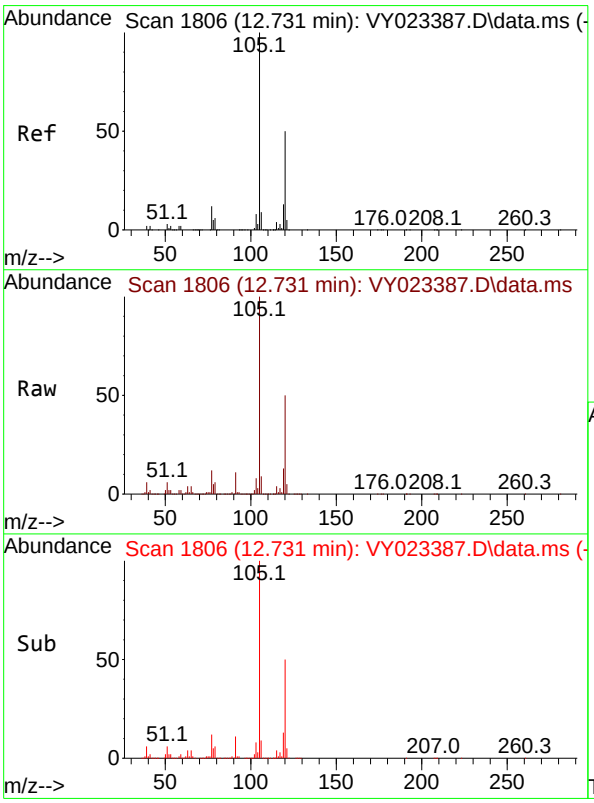
Ion	Ratio	Lower	Upper
91	100		
126	37.0	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

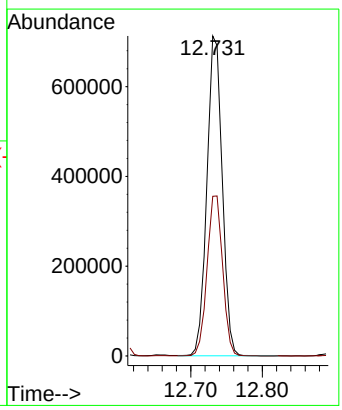
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

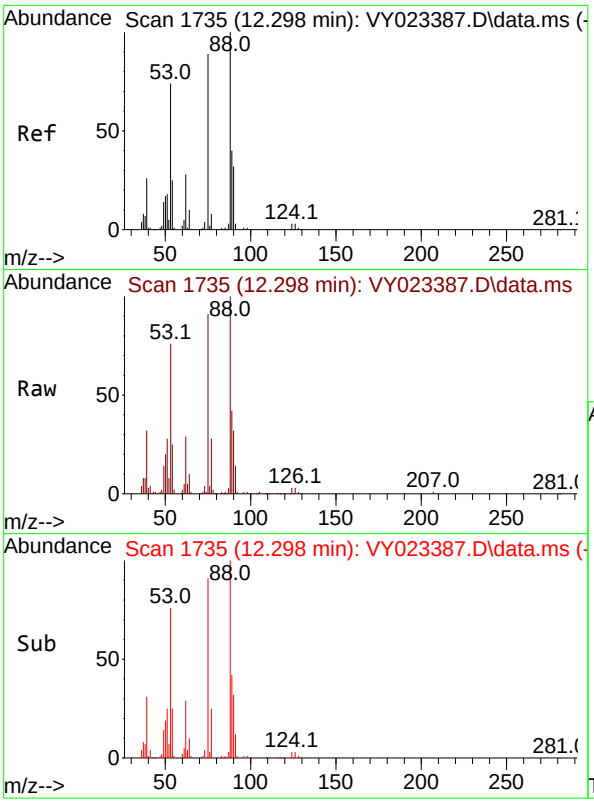


#80
1,3,5-Trimethylbenzene
Concen: 49.966 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:105 Resp: 1061112

Ion	Ratio	Lower	Upper
105	100		
120	50.9	25.4	76.4

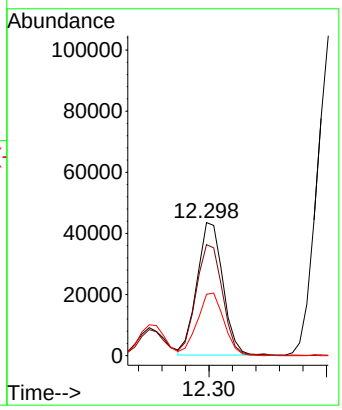




#81
trans-1,4-Dichloro-2-butene
Concen: 46.212 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 75 Resp: 6629

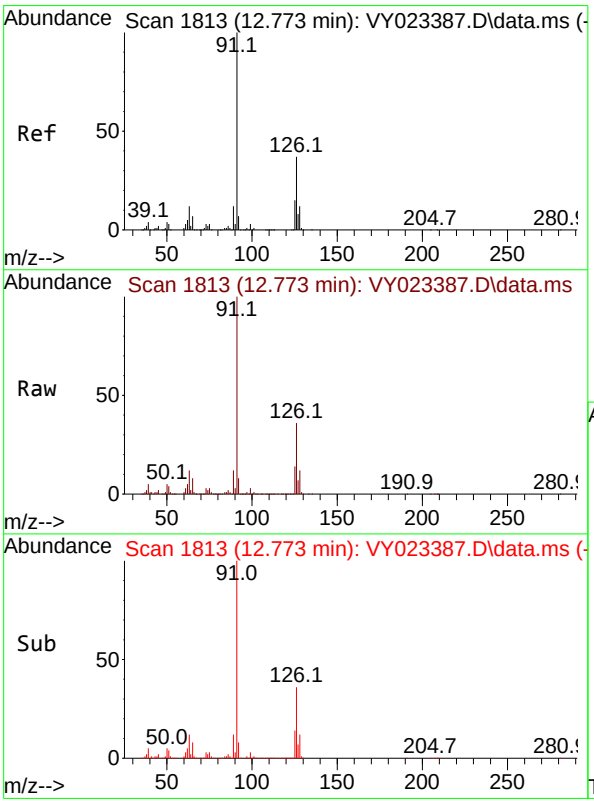
Ion	Ratio	Lower	Upper
75	100		
53	85.7	68.6	102.8
89	48.7	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

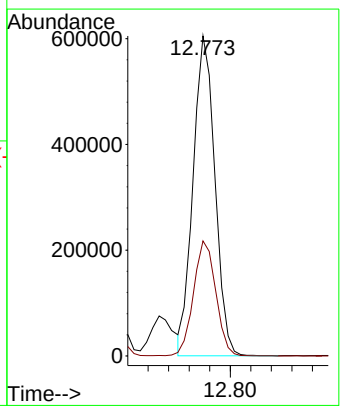
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

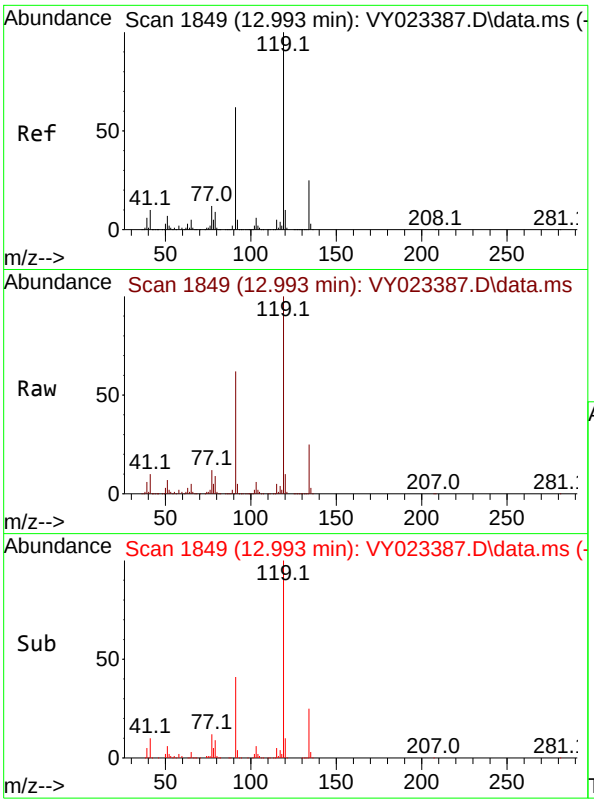


#82
4-Chlorotoluene
Concen: 48.192 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 91 Resp: 892764

Ion	Ratio	Lower	Upper
91	100		
126	36.9	18.4	55.4

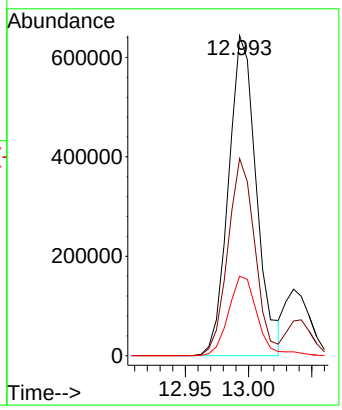




#83
tert-Butylbenzene
Concen: 51.104 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:119 Resp: 98893

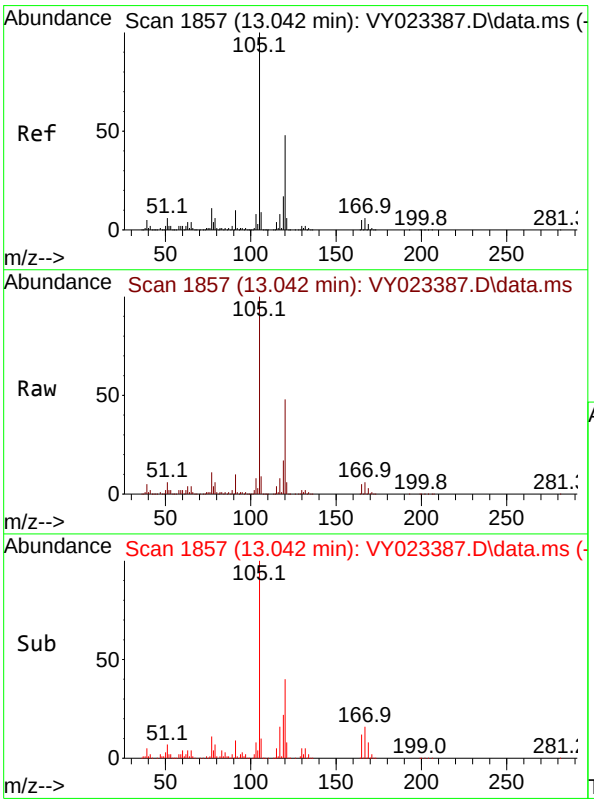
Ion	Ratio	Lower	Upper
119	100		
91	59.9	29.9	89.8
134	25.8	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

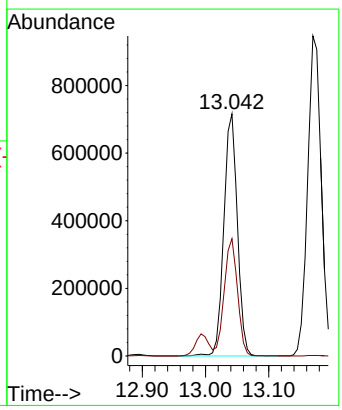
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

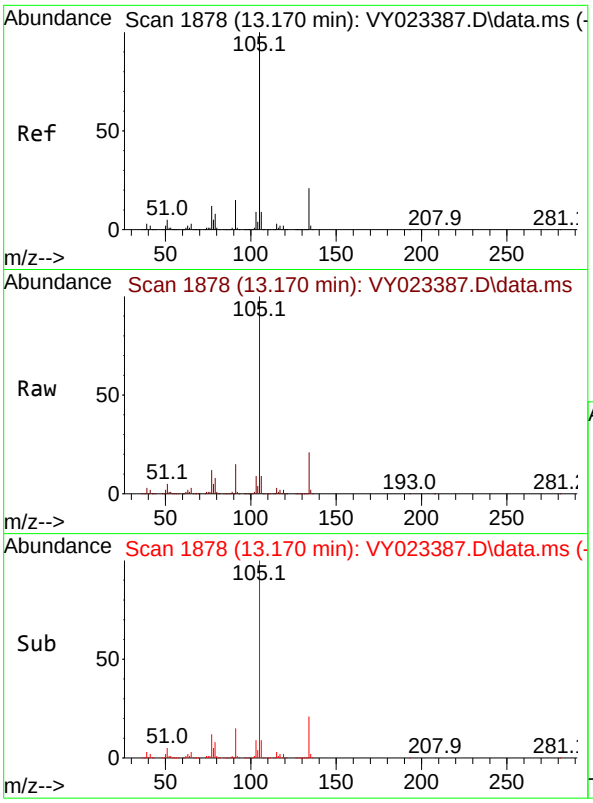


#84
1,2,4-Trimethylbenzene
Concen: 50.505 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:105 Resp: 1061159

Ion	Ratio	Lower	Upper
105	100		
120	47.5	23.8	71.2

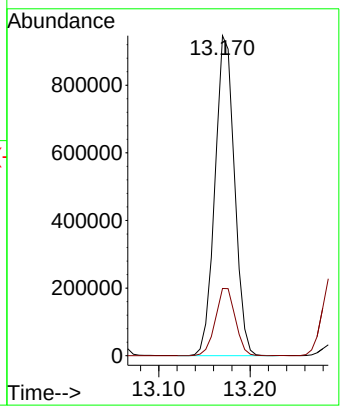




#85
sec-Butylbenzene
Concen: 50.133 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:105 Resp: 140500

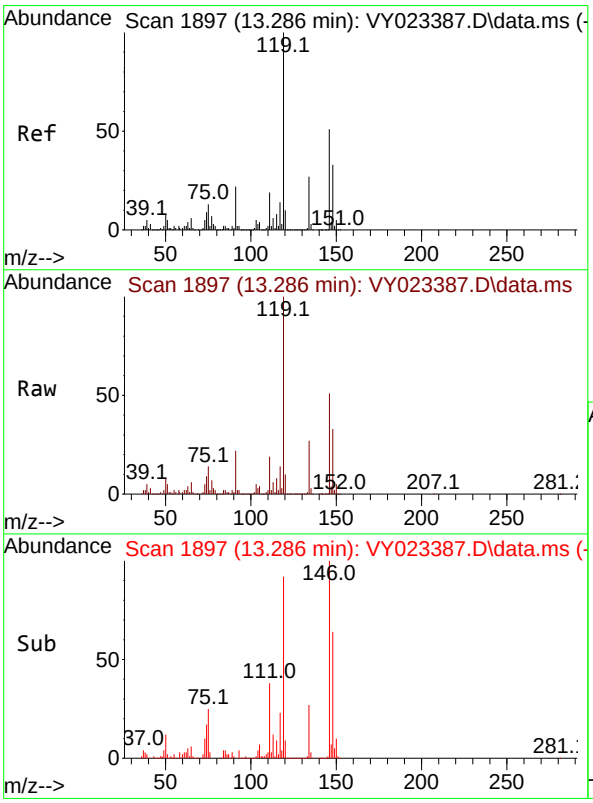
Ion	Ratio	Lower	Upper
105	100		
134	21.4	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

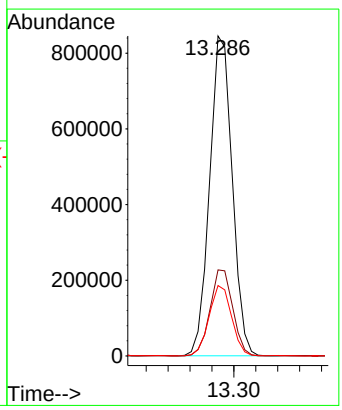
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

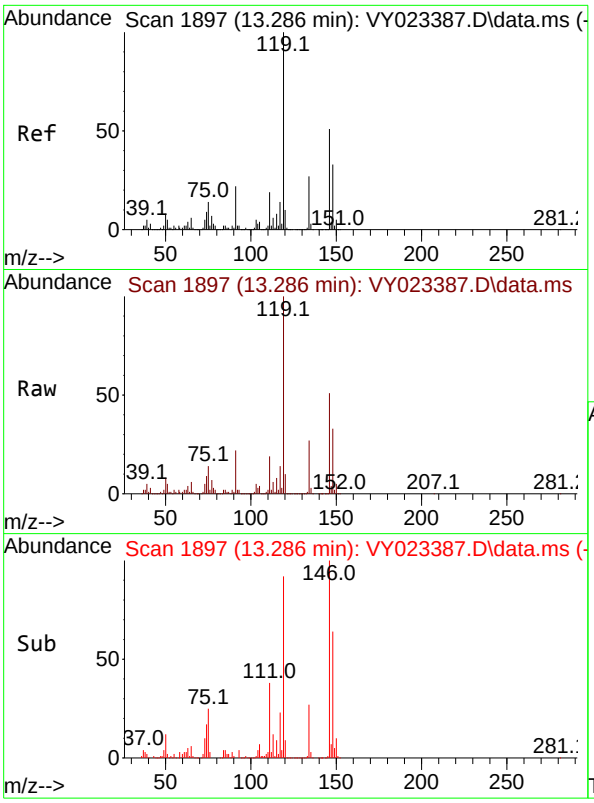


#86
p-Isopropyltoluene
Concen: 51.115 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

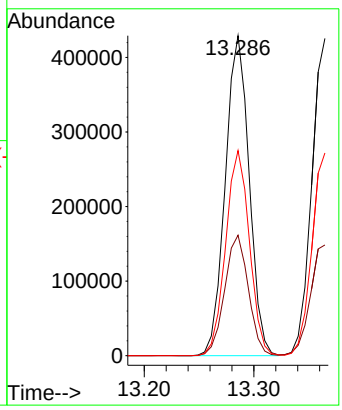




#87
1,3-Dichlorobenzene
Concen: 49.072 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion:146 Resp: 64989

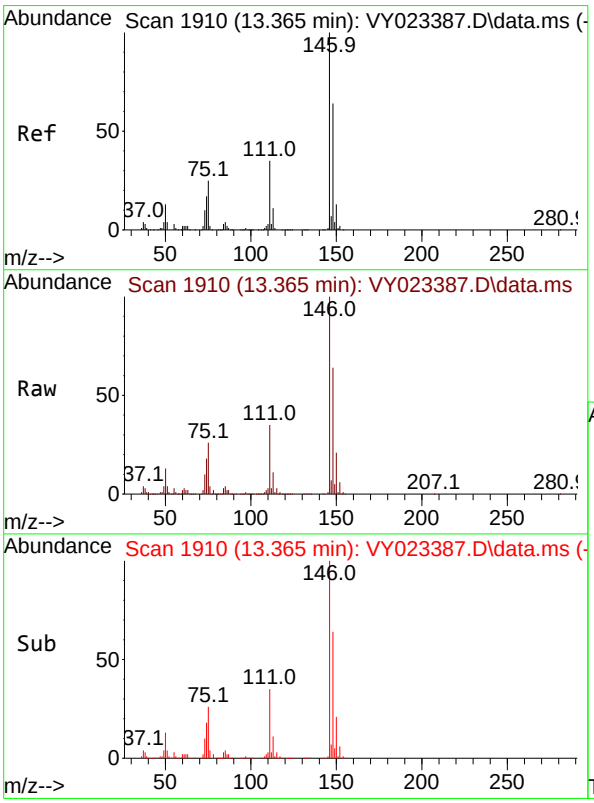
Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.7	56.1
148	63.9	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

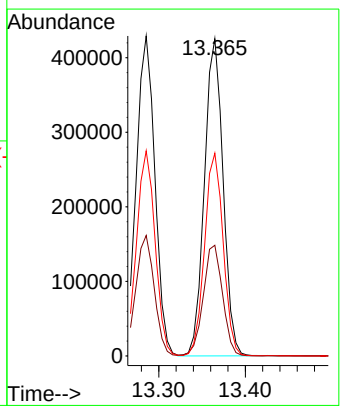
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

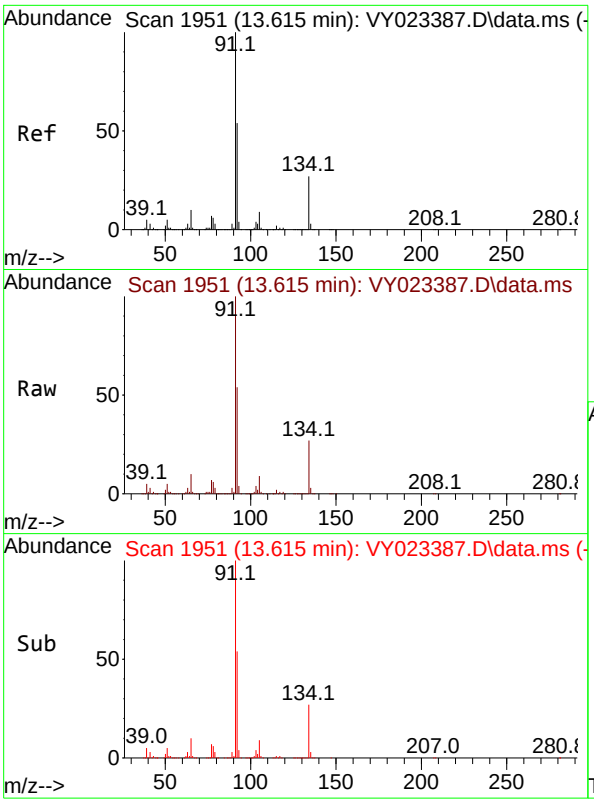


#88
1,4-Dichlorobenzene
Concen: 48.476 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

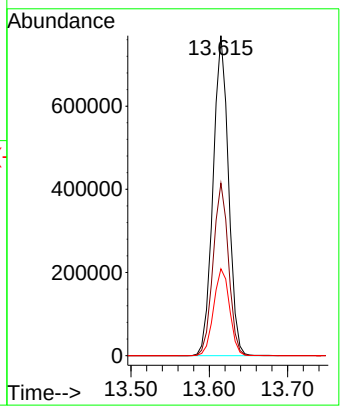




#89
n-Butylbenzene
Concen: 50.299 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

Tgt Ion: 91 Resp: 105194

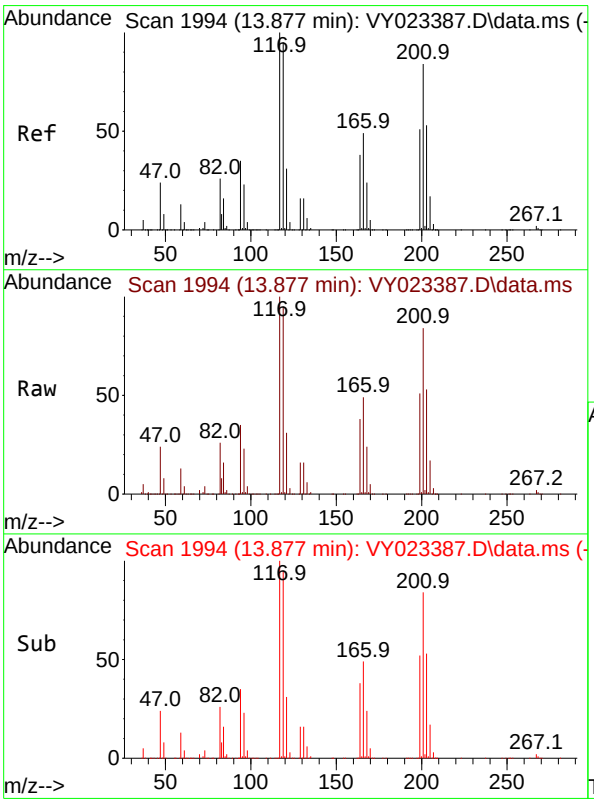
Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.0	80.8
134	28.1	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

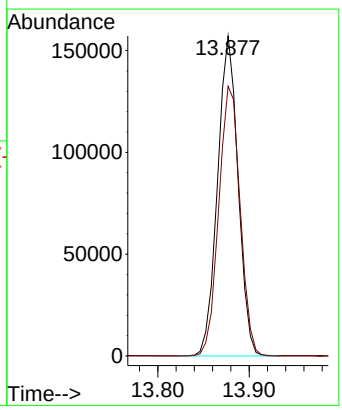
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

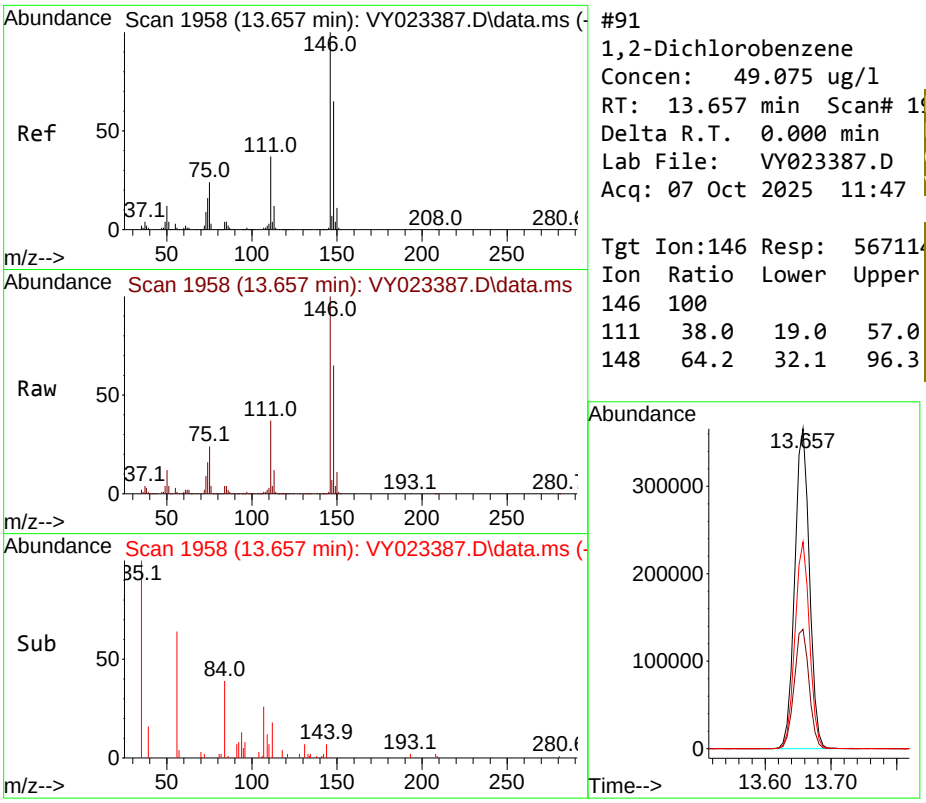


#90
Hexachloroethane
Concen: 47.664 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023387.D
Acq: 07 Oct 2025 11:47

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

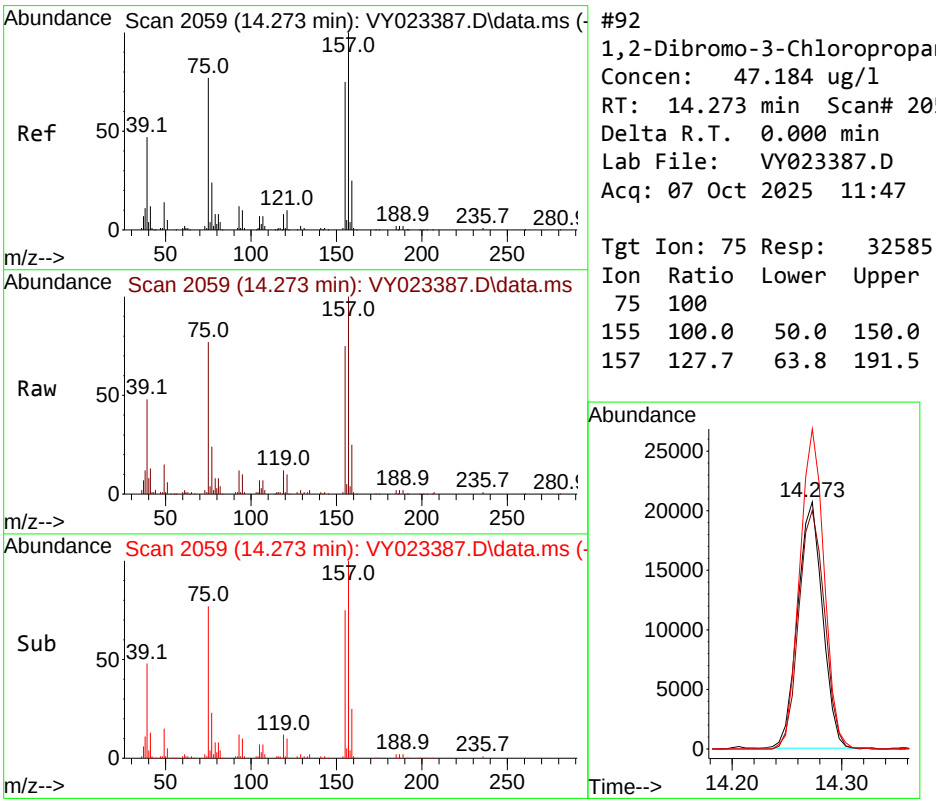
Tgt Ion:146 Resp: 56711

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

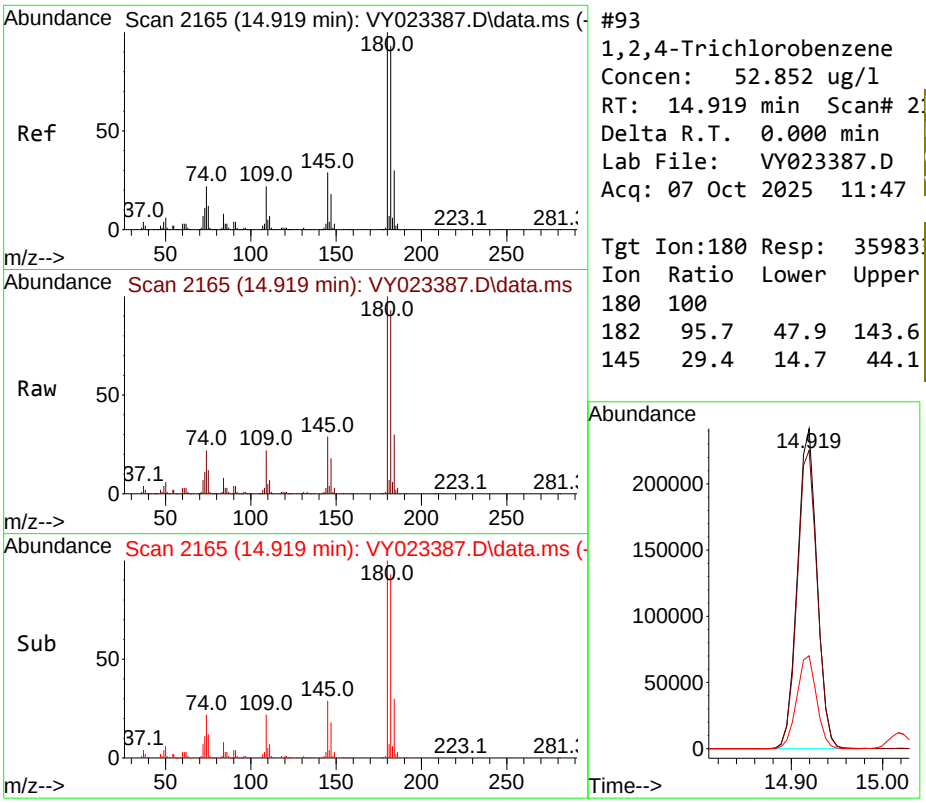
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

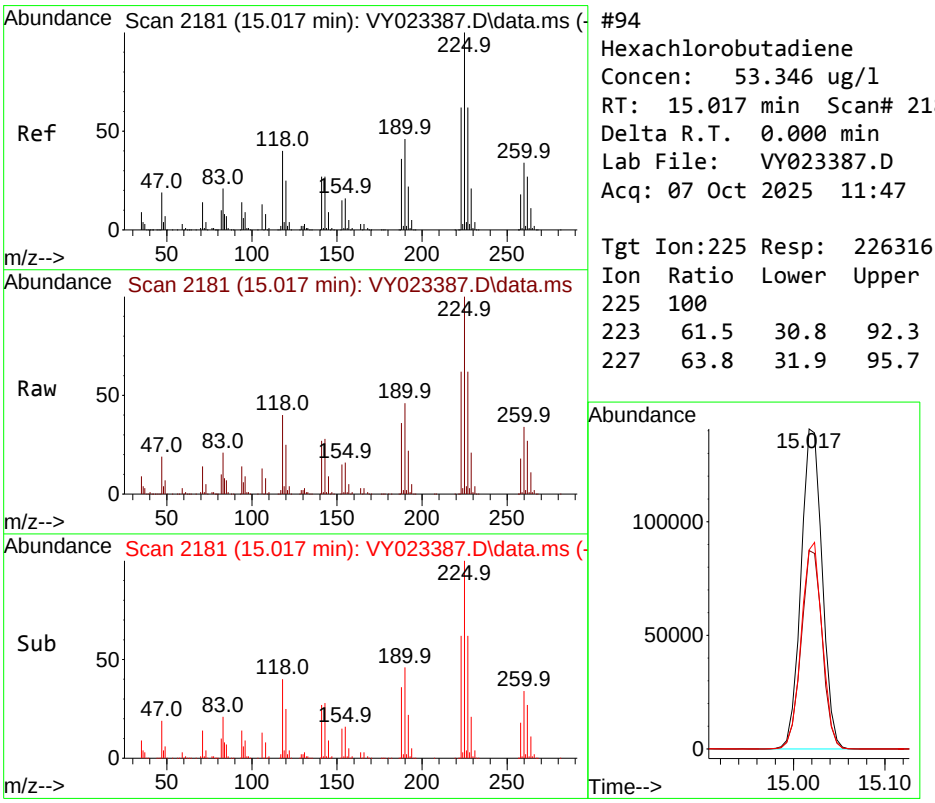
Tgt Ion:180 Resp: 35983

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

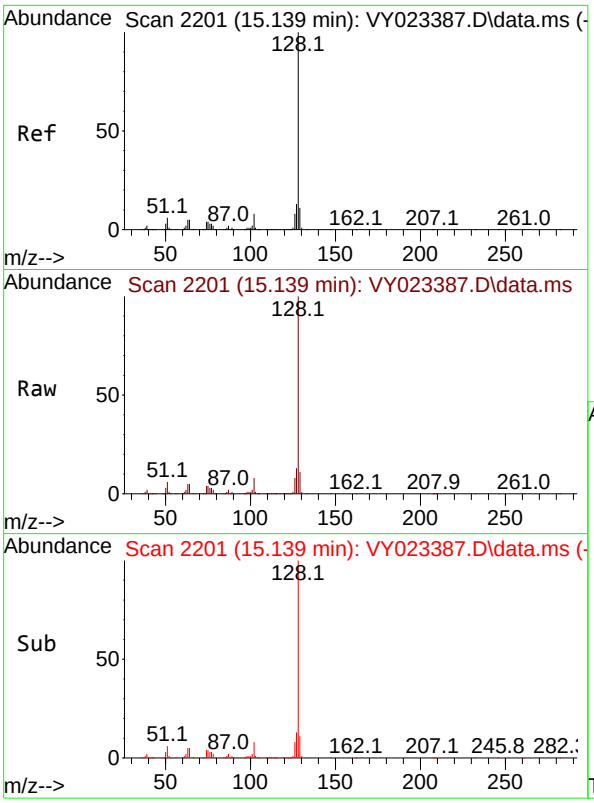
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

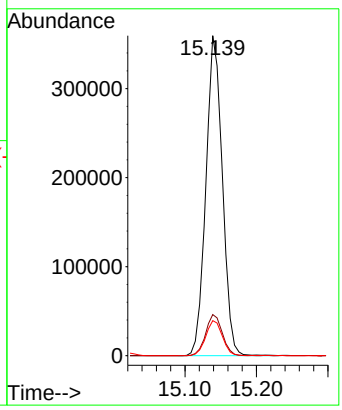
Ion	Ratio	Lower	Upper
225	100		
223	61.5	30.8	92.3
227	63.8	31.9	95.7



#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

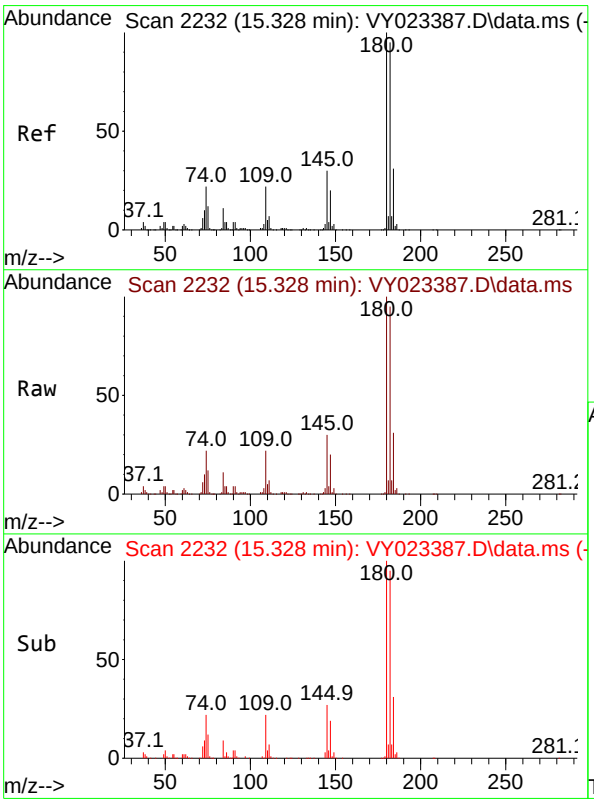
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	11.1	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

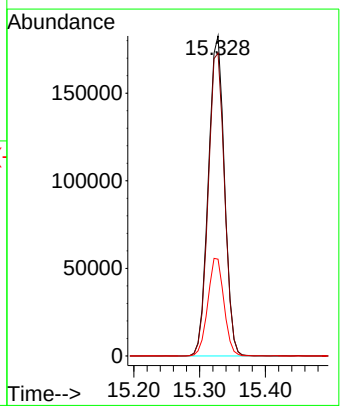
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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



Quantitation Report (QT Reviewed)

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)
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

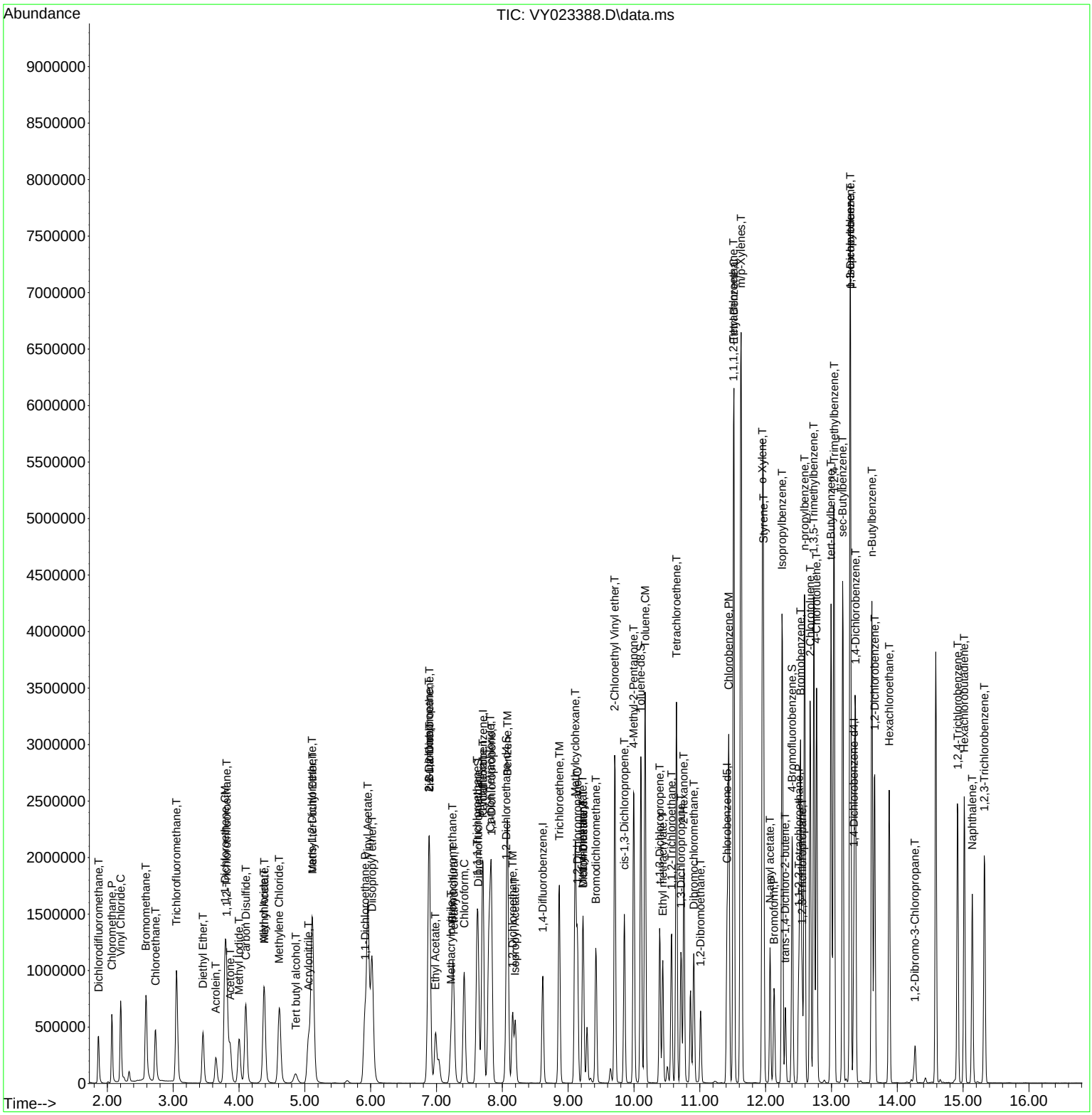
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023388.D
Acq On : 07 Oct 2025 12:09
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

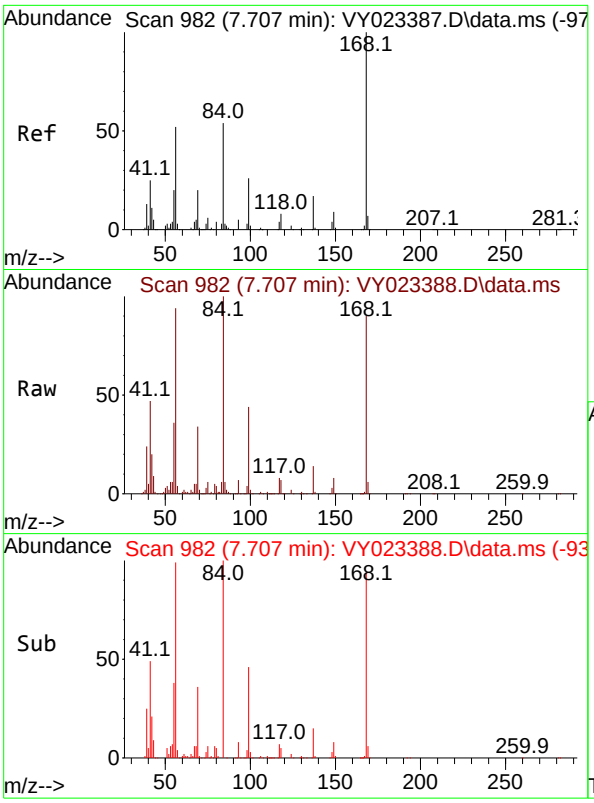
Quant Time: Oct 08 04:44:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

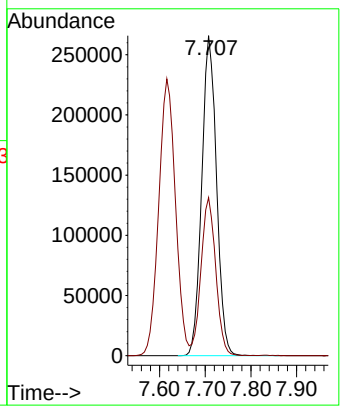




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:168 Resp: 59577

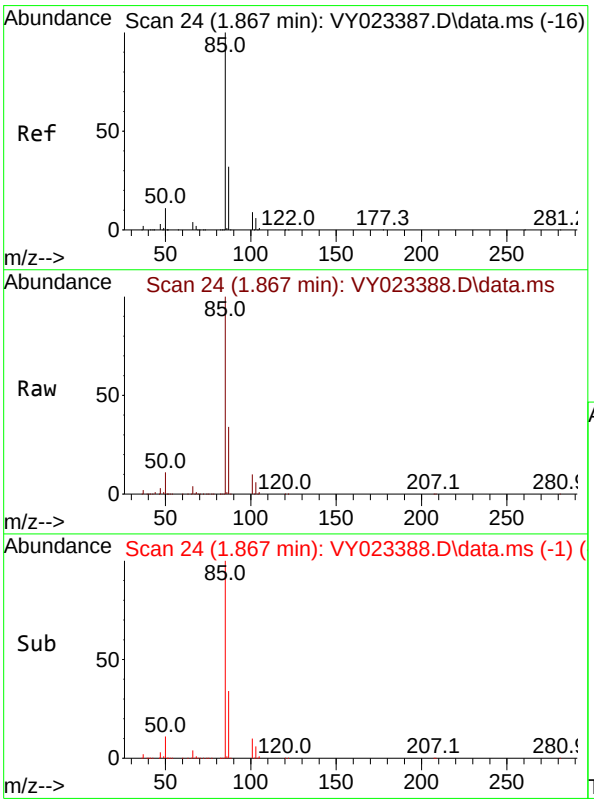
Ion	Ratio	Lower	Upper
168	100		
99	49.3	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

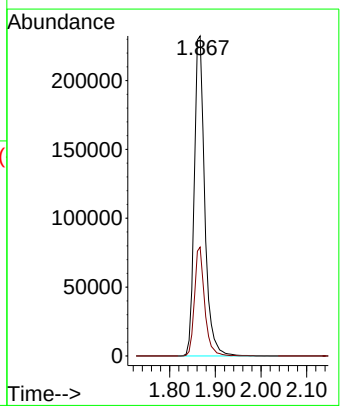
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

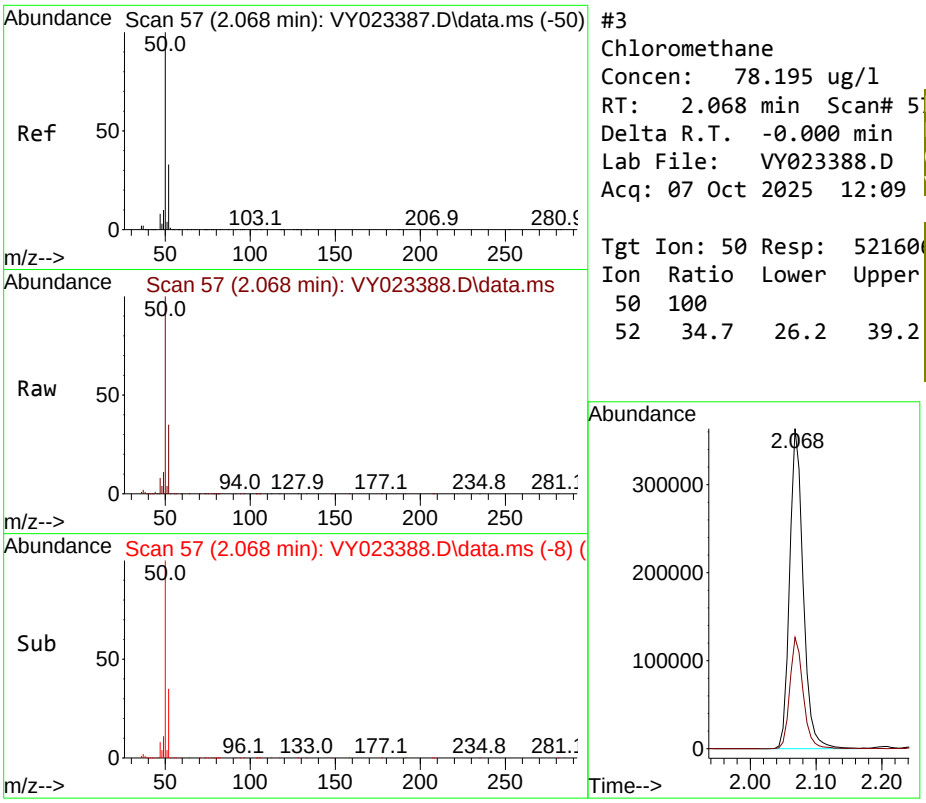


#2
Dichlorodifluoromethane
Concen: 78.627 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

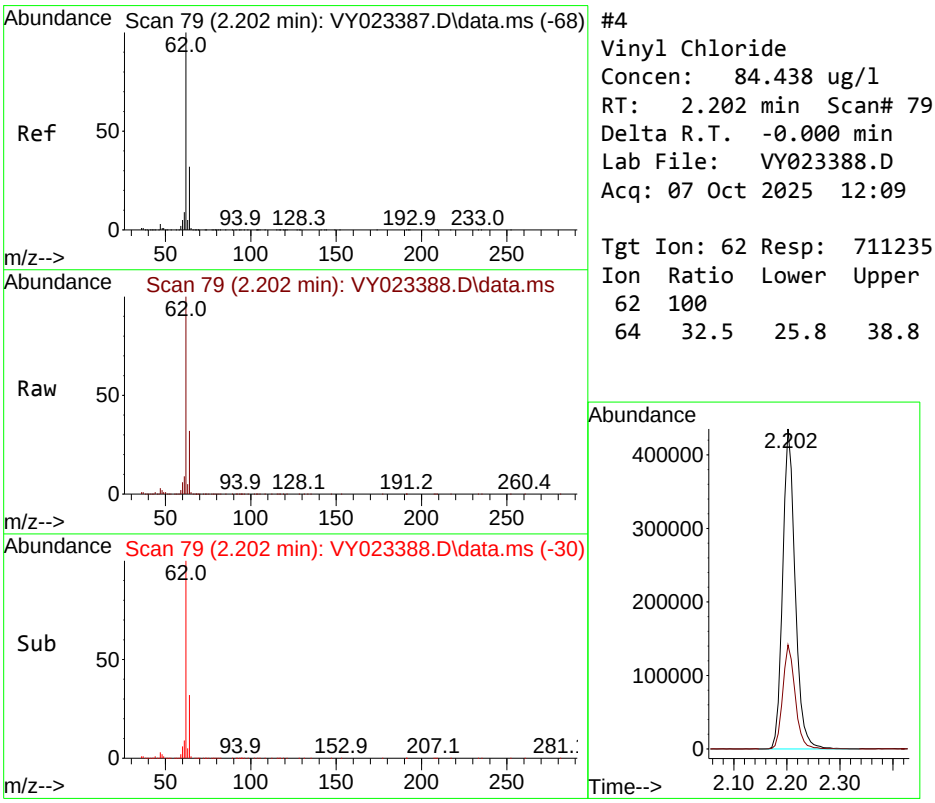
Tgt Ion: 50 Resp: 52160

Ion	Ratio	Lower	Upper
50	100		
52	34.7	26.2	39.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

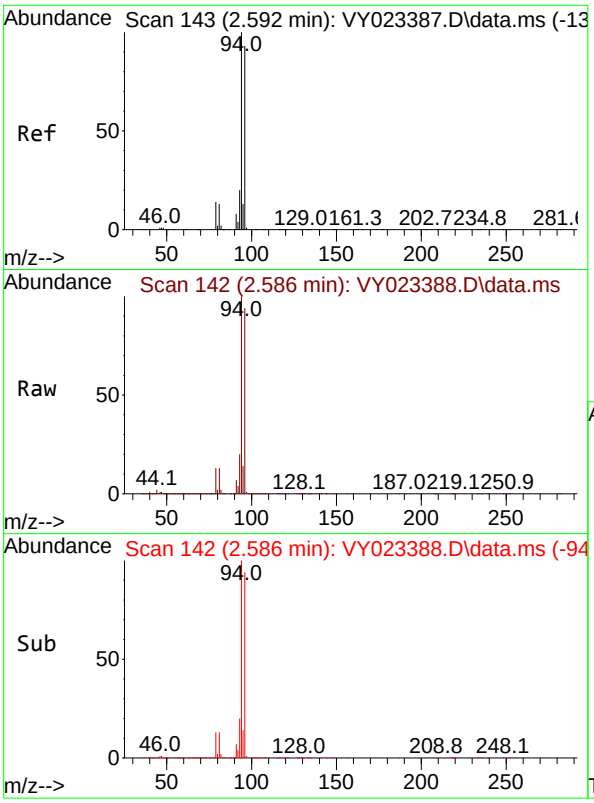
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

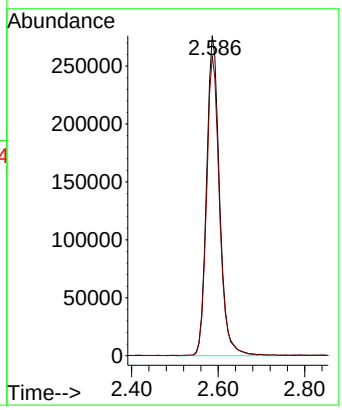
Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.8	38.8



#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

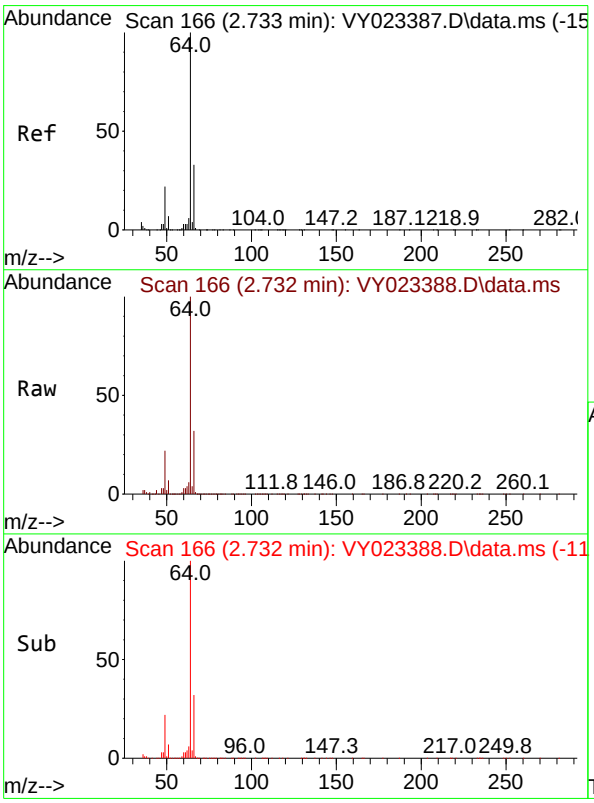
Ion	Ratio	Lower	Upper
94	100		
96	93.7	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

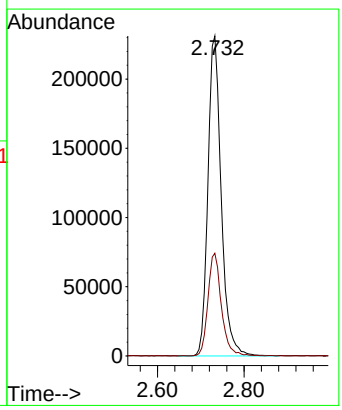
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

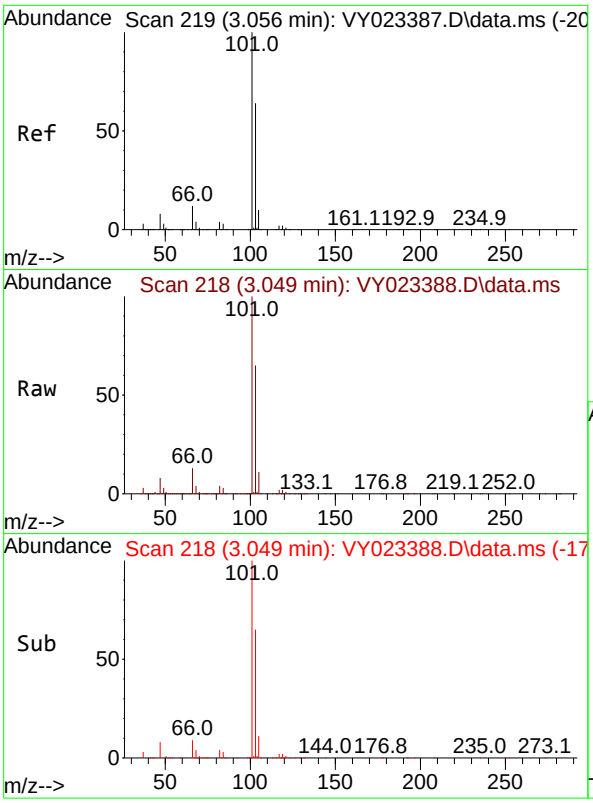


#6
Chloroethane
Concen: 85.968 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 64 Resp: 491625

Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.2	39.4

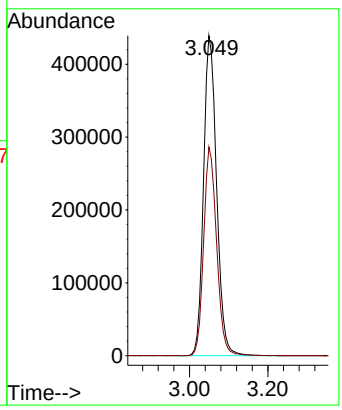




#7
Trichlorofluoromethane
Concen: 93.610 ug/l
RT: 3.049 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:101 Resp: 101285

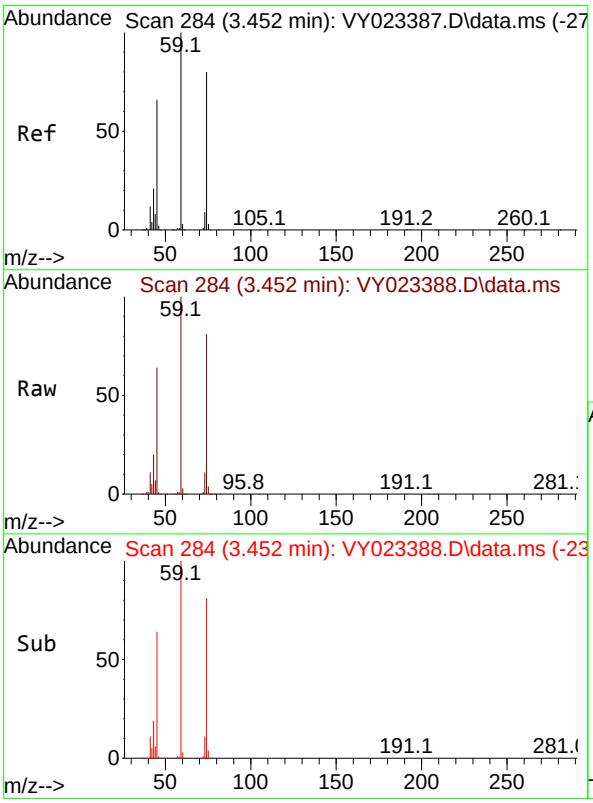
Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

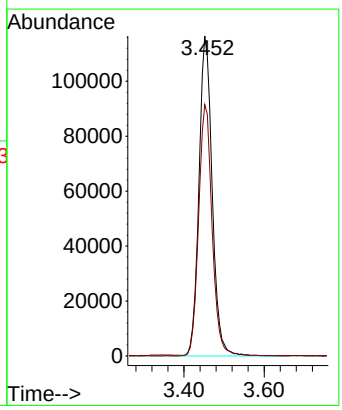
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

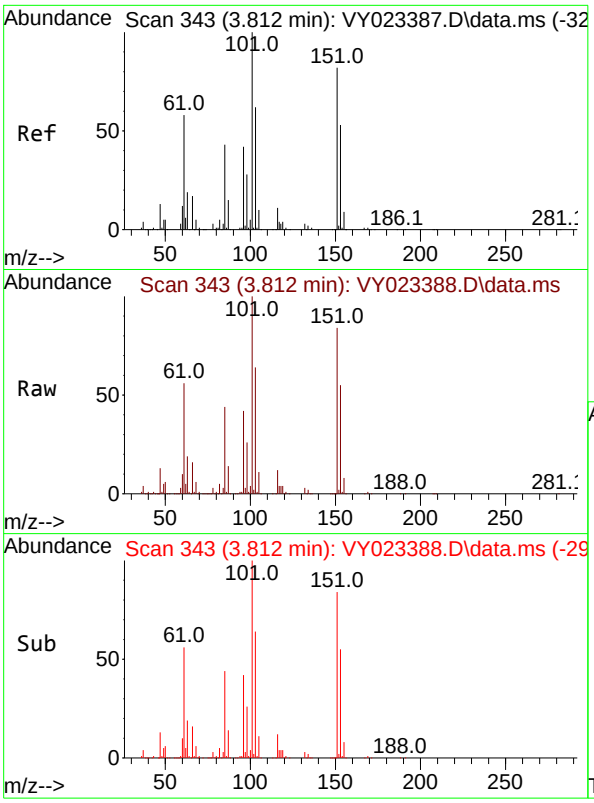


#8
Diethyl Ether
Concen: 94.266 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

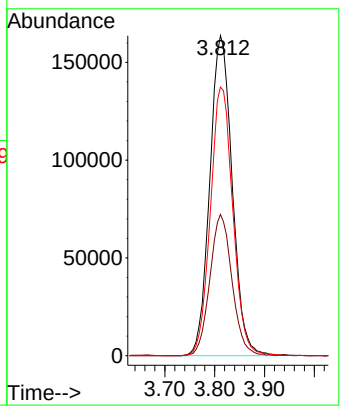
Tgt Ion:101 Resp: 51148

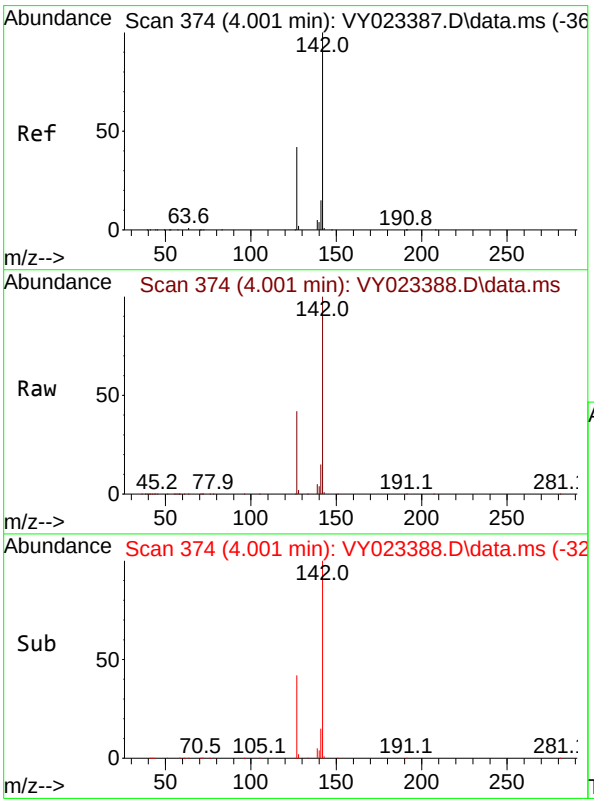
Ion	Ratio	Lower	Upper
101	100		
85	43.6	34.6	51.8
151	84.1	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

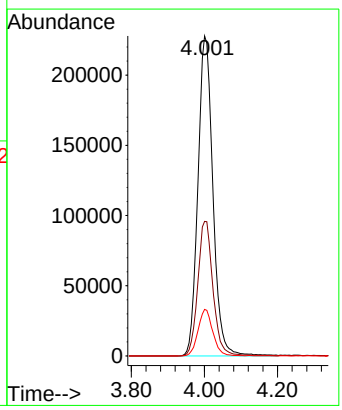


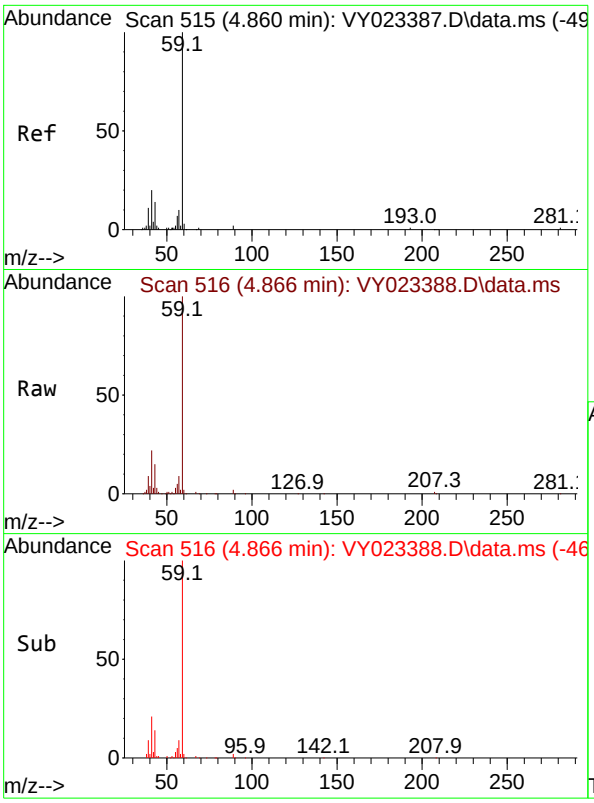


#10
Methyl Iodide
Concen: 97.495 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

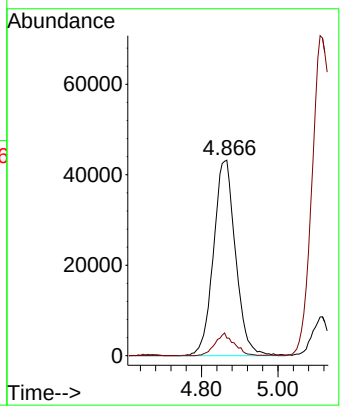




#11
Tert butyl alcohol
Concen: 568.898 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 59 Resp: 17271

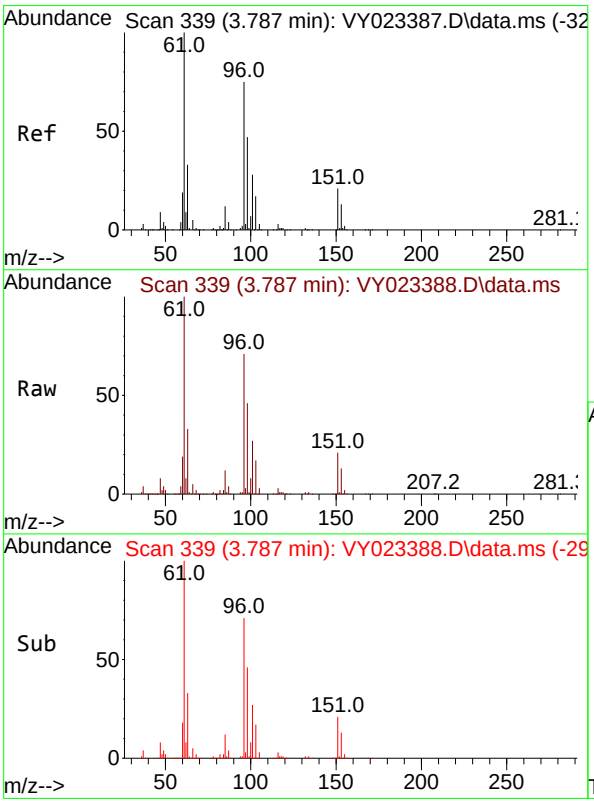
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

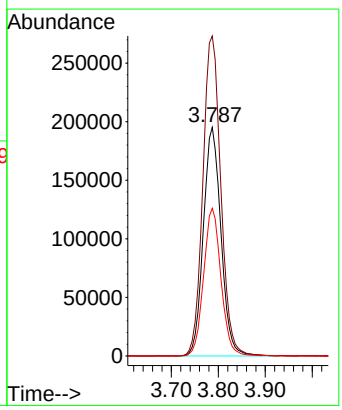
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

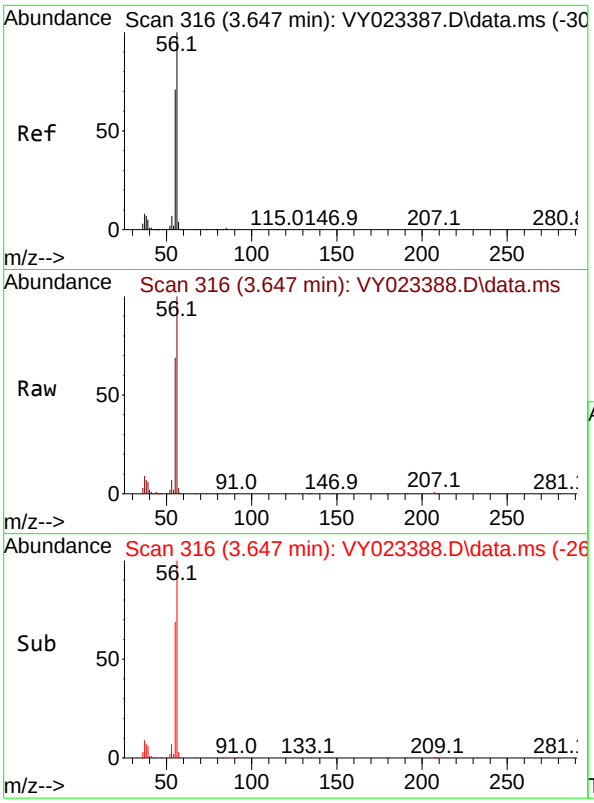


#12
1,1-Dichloroethene
Concen: 91.303 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

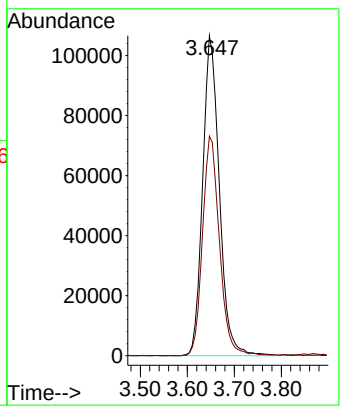




#13
Acrolein
Concen: 510.573 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 56 Resp: 26263

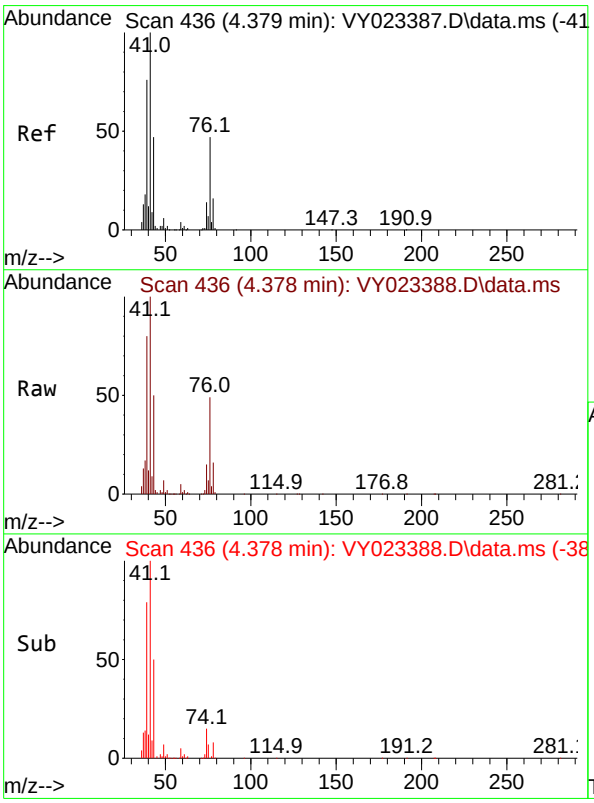
Ion	Ratio	Lower	Upper
56	100		
55	69.6	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

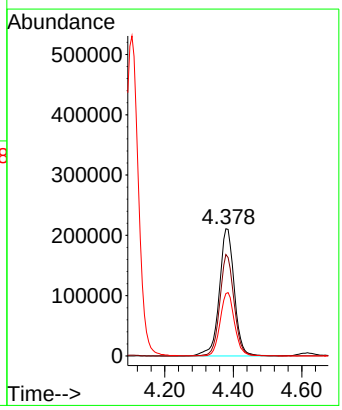
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

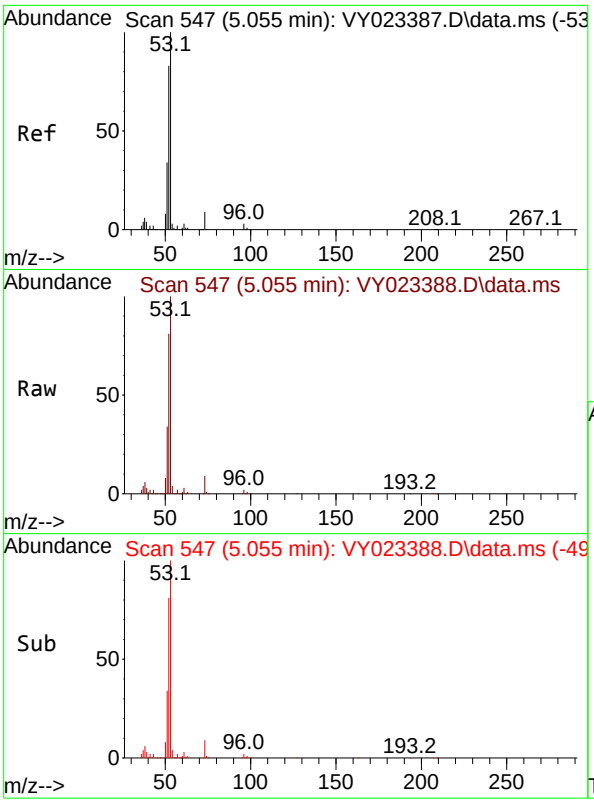


#14
Allyl chloride
Concen: 91.446 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

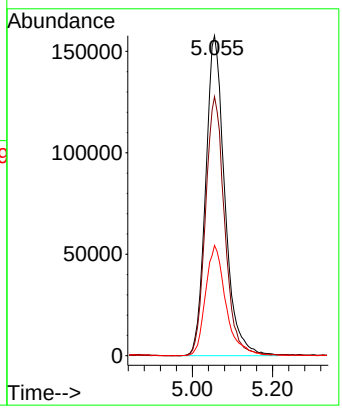




#15
Acrylonitrile
Concen: 471.296 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 53 Resp: 52251

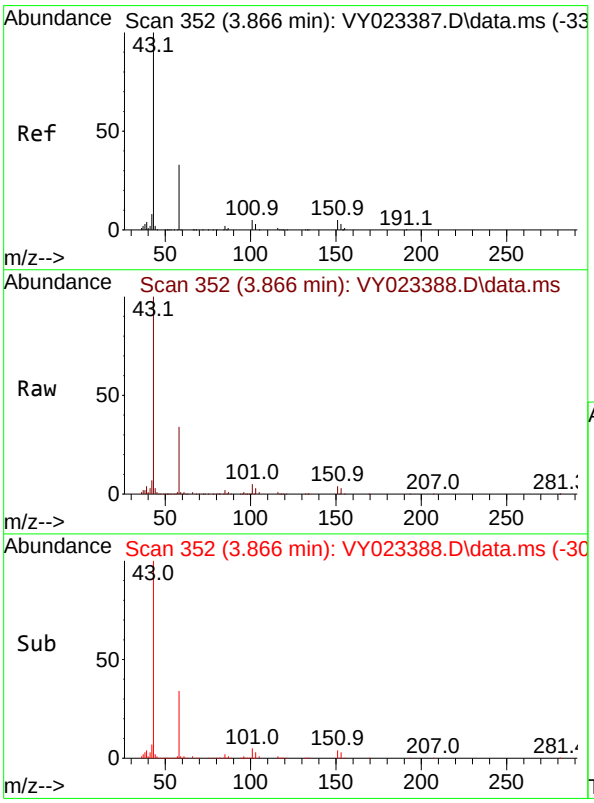
Ion	Ratio	Lower	Upper
53	100		
52	81.2	64.6	97.0
51	36.7	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

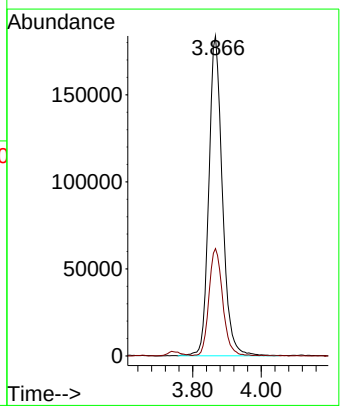
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

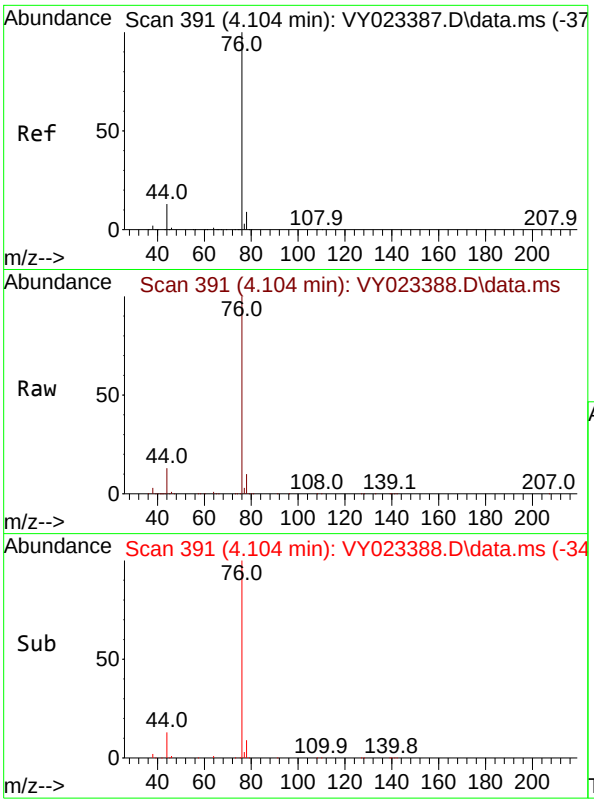


#16
Acetone
Concen: 435.004 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 504700

Ion	Ratio	Lower	Upper
43	100		
58	33.5	27.7	41.5

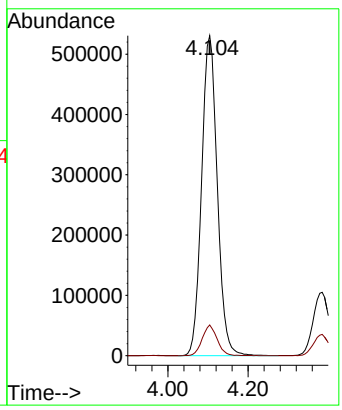




#17
Carbon Disulfide
Concen: 83.061 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 76 Resp: 144200

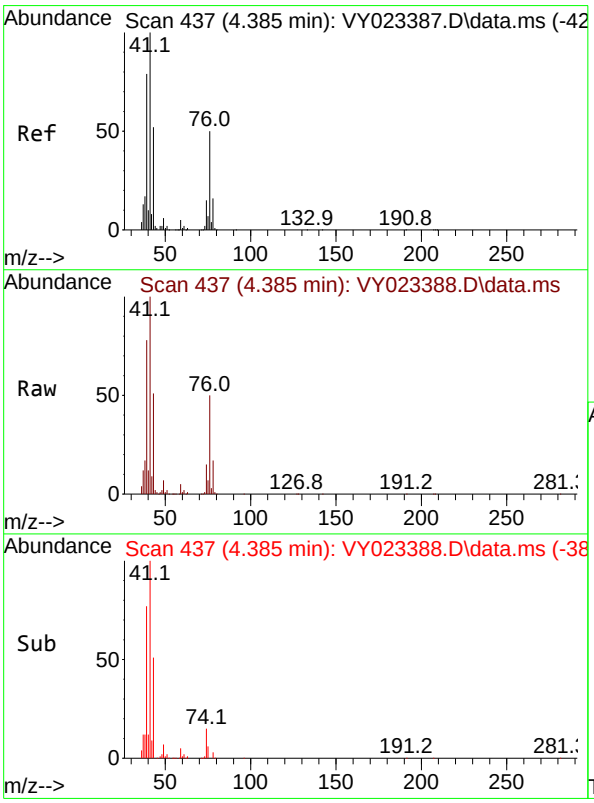
Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

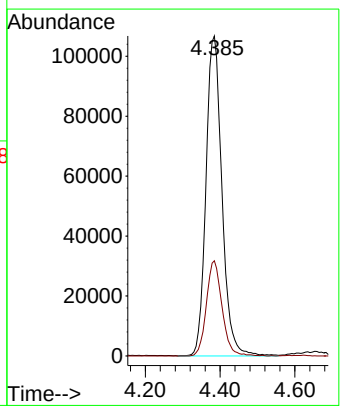
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

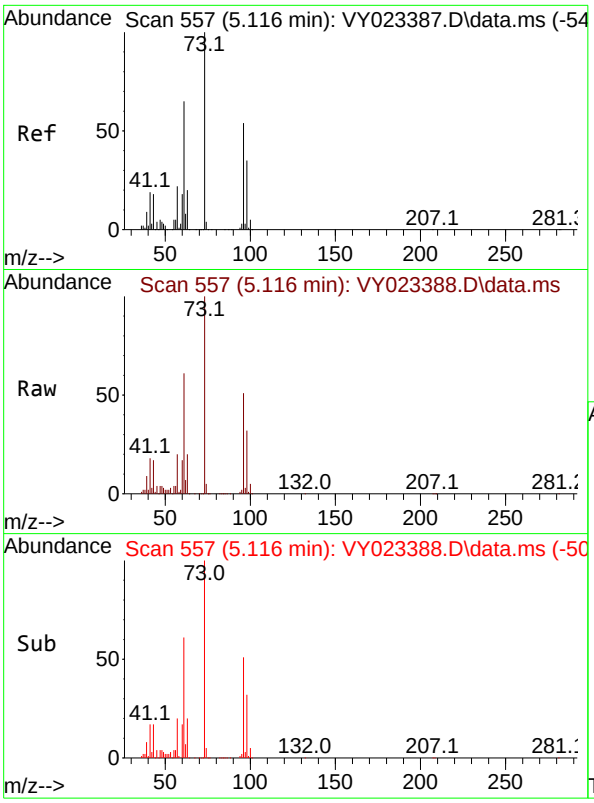


#18
Methyl Acetate
Concen: 107.474 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 316911

Ion	Ratio	Lower	Upper
43	100		
74	29.1	24.2	36.4

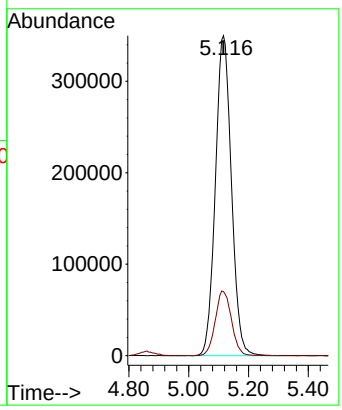




#19
Methyl tert-butyl Ether
Concen: 99.797 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 73 Resp: 130020

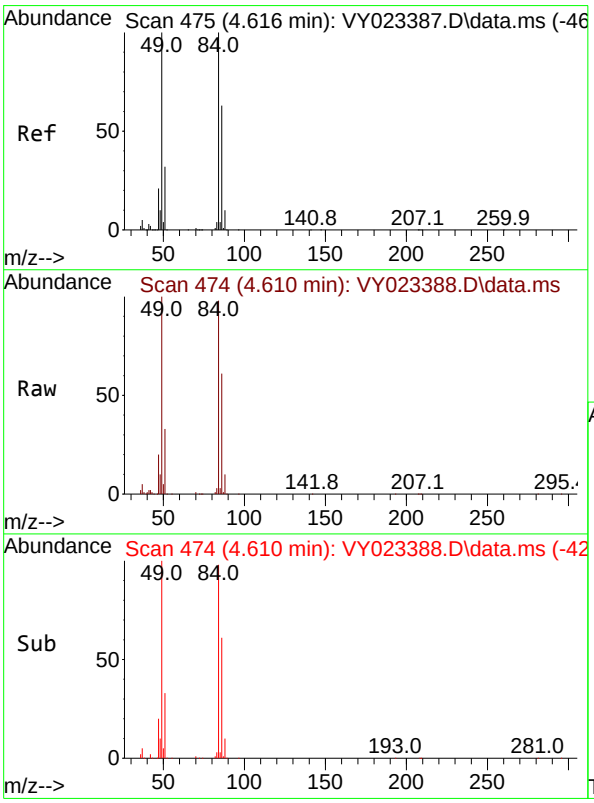
Ion	Ratio	Lower	Upper
73	100		
57	20.1	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

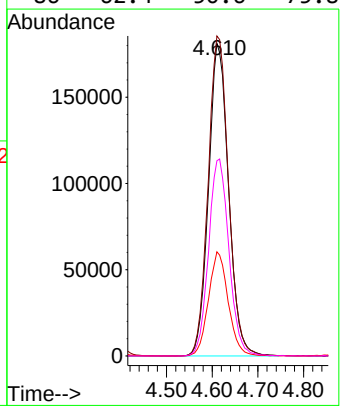
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

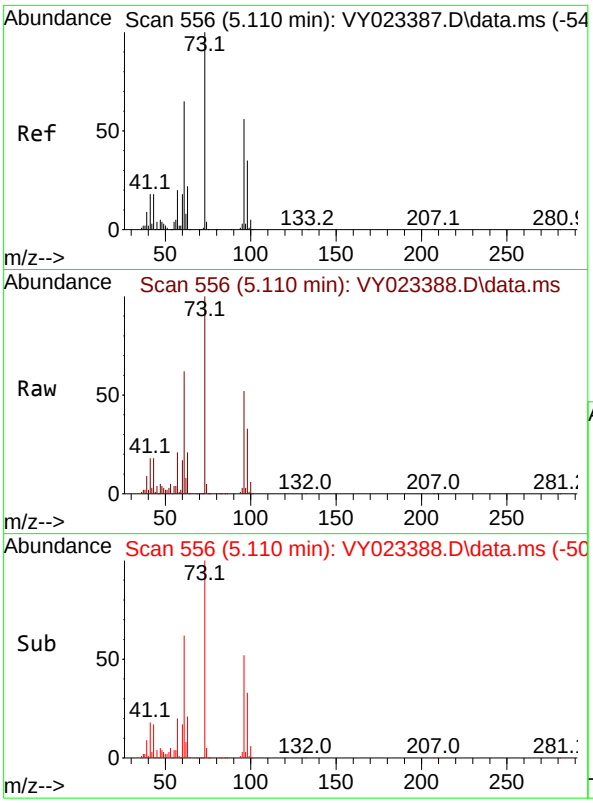


#20
Methylene Chloride
Concen: 87.742 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

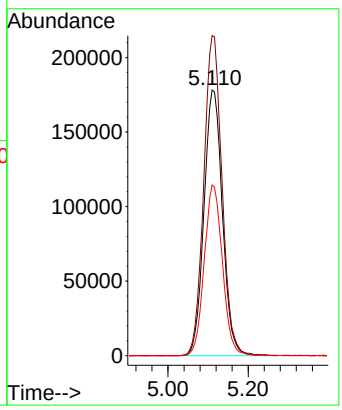




#21
trans-1,2-Dichloroethene
Concen: 91.999 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 96 Resp: 56933

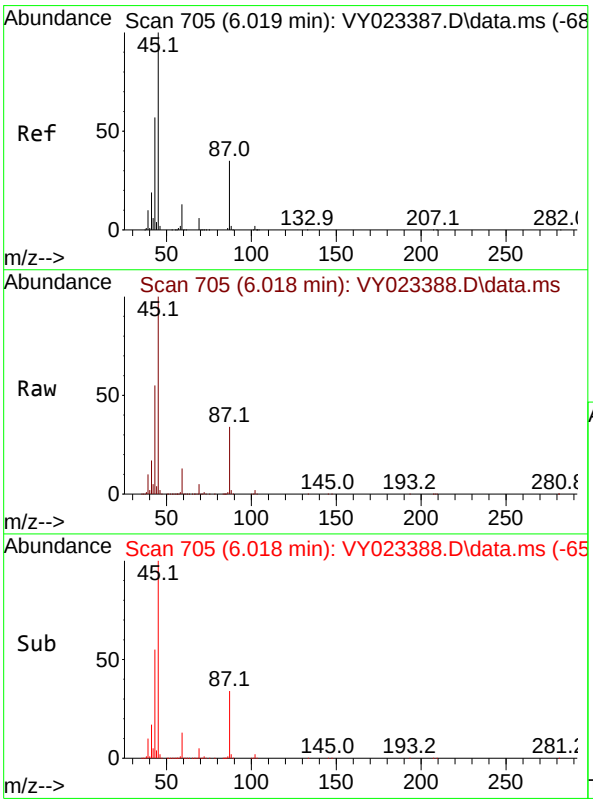
Ion	Ratio	Lower	Upper
96	100		
61	120.4	92.7	139.1
98	64.2	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

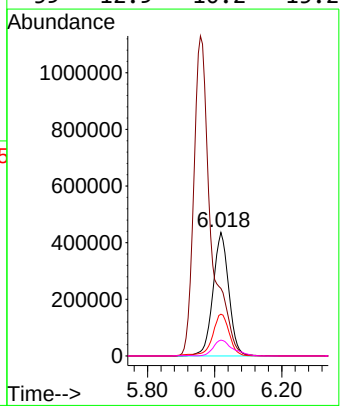
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

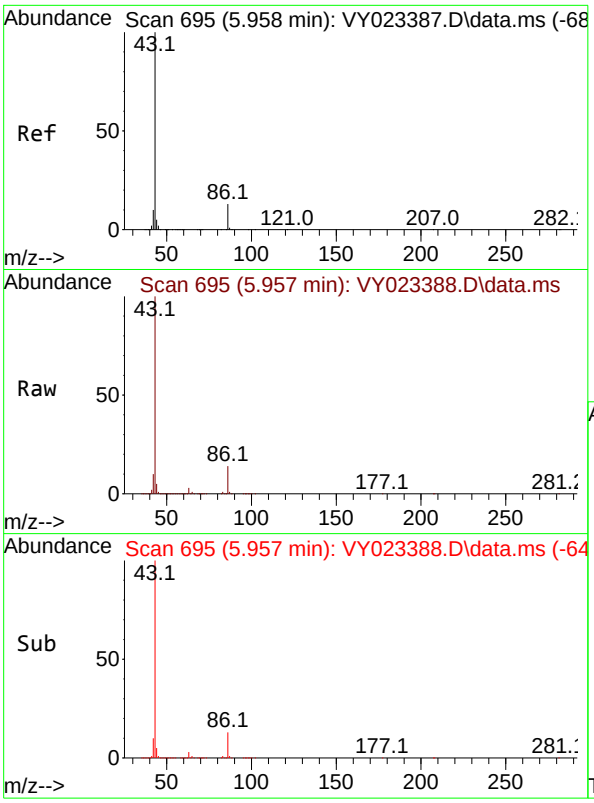


#22
Diisopropyl ether
Concen: 92.133 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

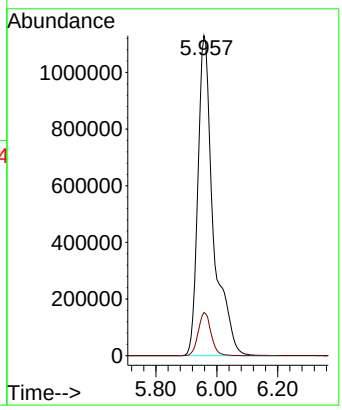
Tgt Ion: 43 Resp: 397505

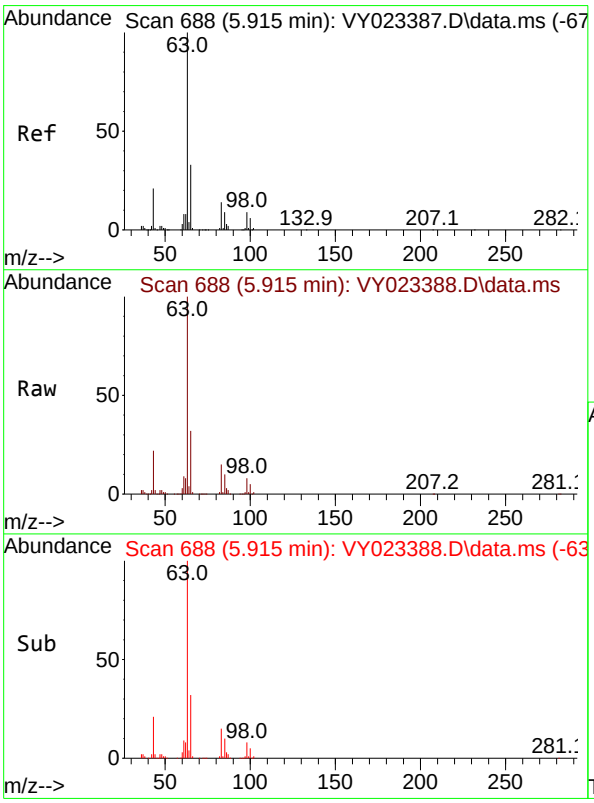
Ion	Ratio	Lower	Upper
43	100		
86	13.5	10.6	15.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

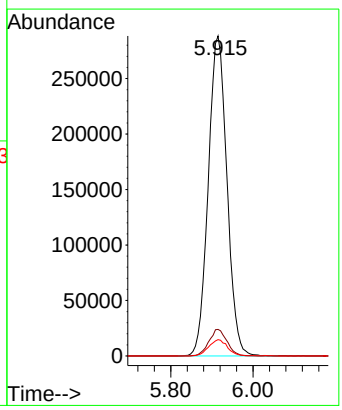


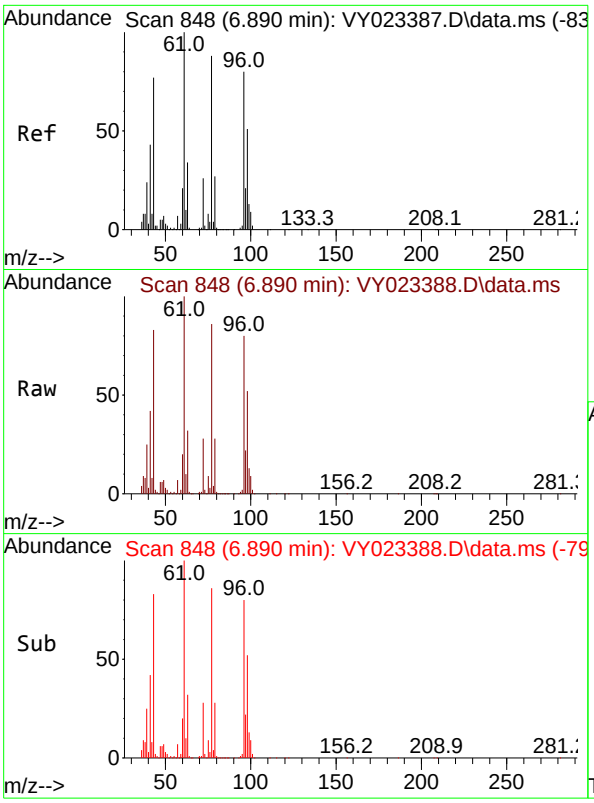


#24
1,1-Dichloroethane
Concen: 89.517 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

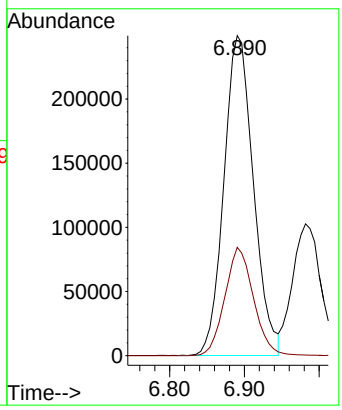
Tgt Ion: 43 Resp: 68569

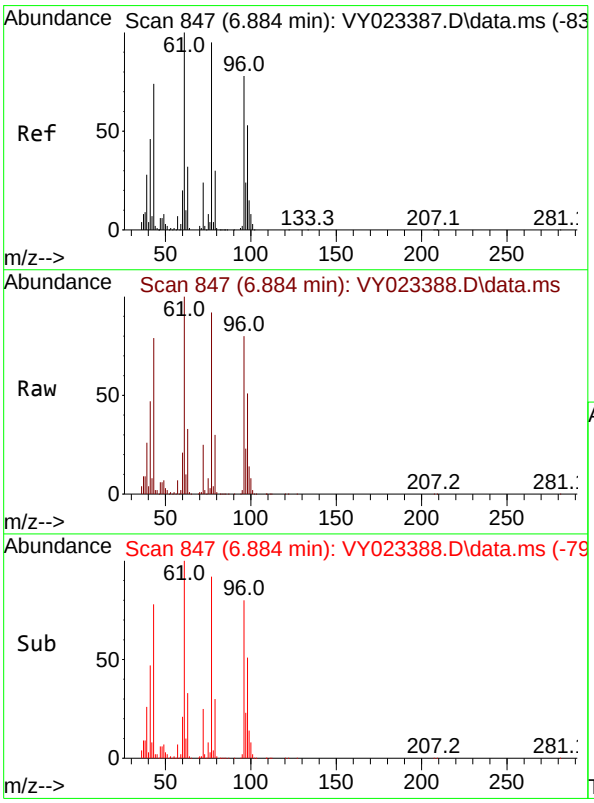
Ion	Ratio	Lower	Upper
43	100		
72	33.9	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

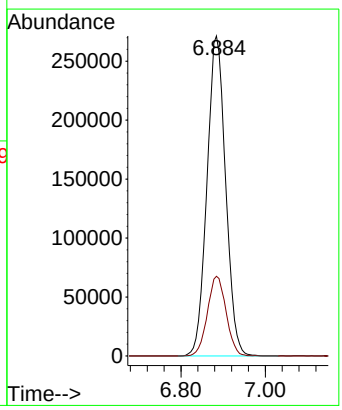


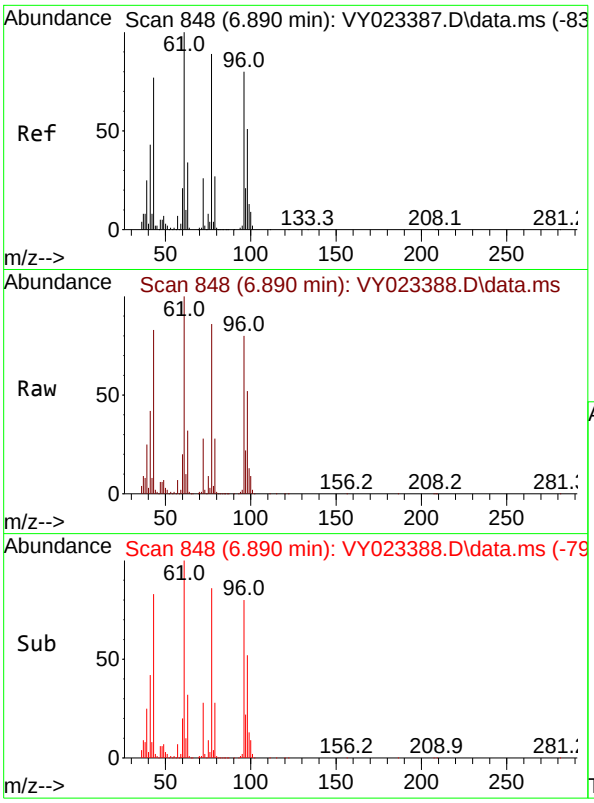


#26
2,2-Dichloropropane
Concen: 92.108 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 77 Resp: 833452

Ion	Ratio	Lower	Upper
77	100		
97	25.0	12.1	36.3

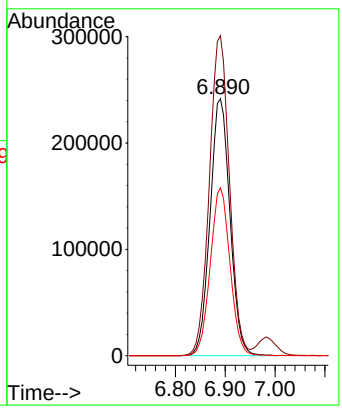




#27
cis-1,2-Dichloroethene
Concen: 95.557 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 96 Resp: 67077

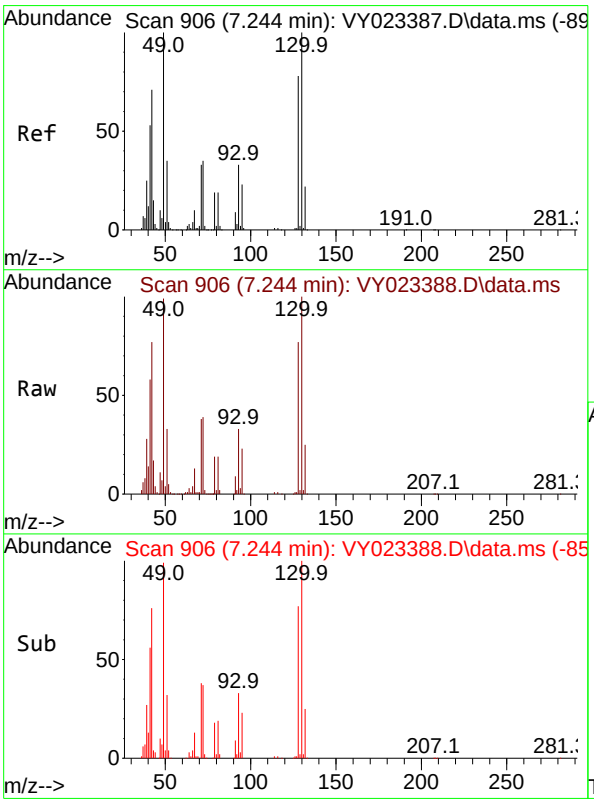
Ion	Ratio	Lower	Upper
96	100		
61	125.9	0.0	258.2
98	64.7	0.0	132.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

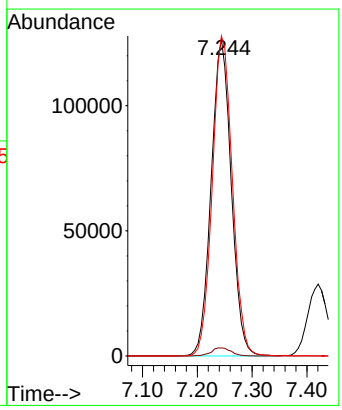
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

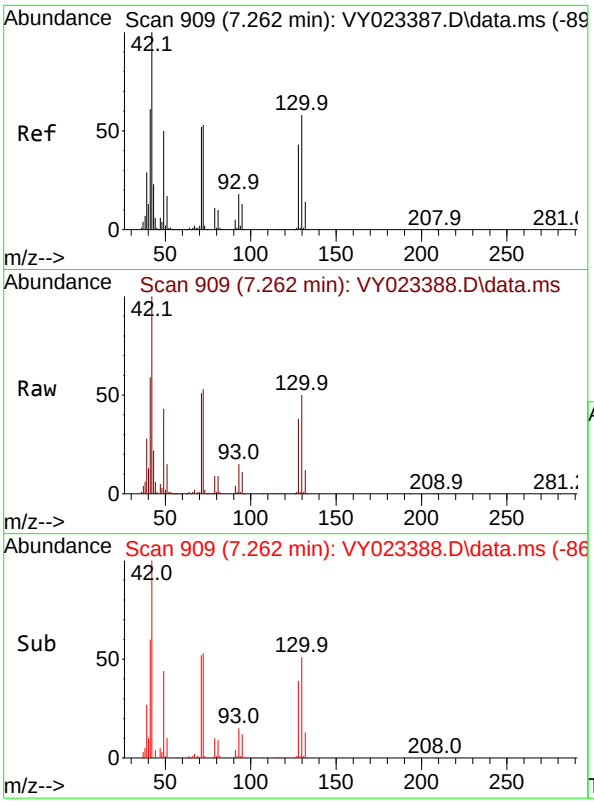


#28
Bromochloromethane
Concen: 81.418 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

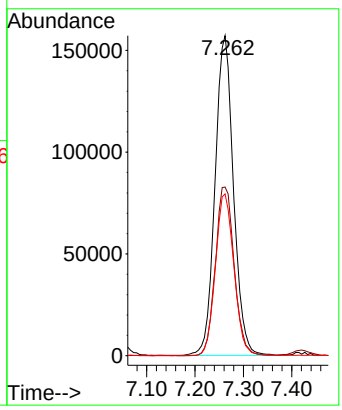




#29
Tetrahydrofuran
Concen: 488.587 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 42 Resp: 41586

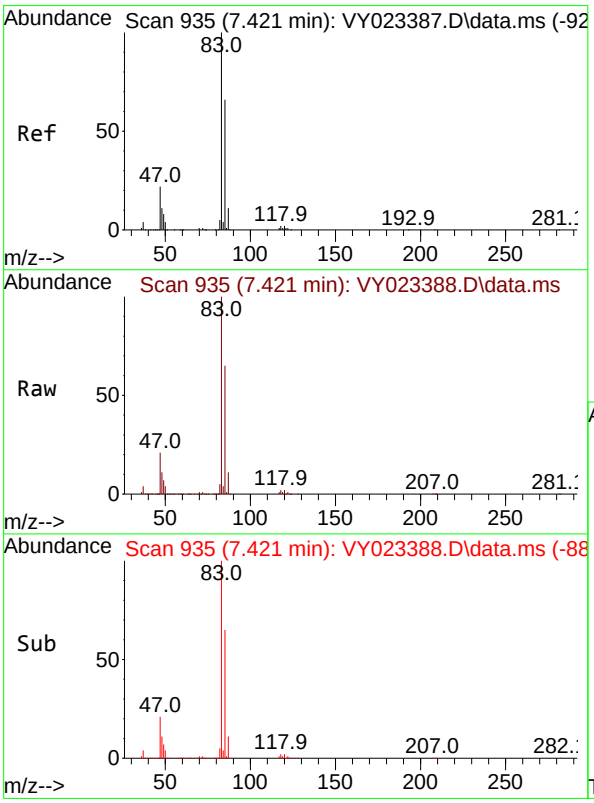
Ion	Ratio	Lower	Upper
42	100		
72	54.1	43.0	64.6
71	50.9	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

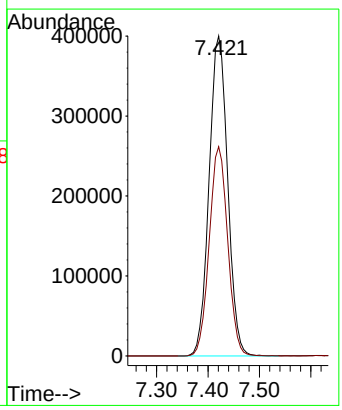
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

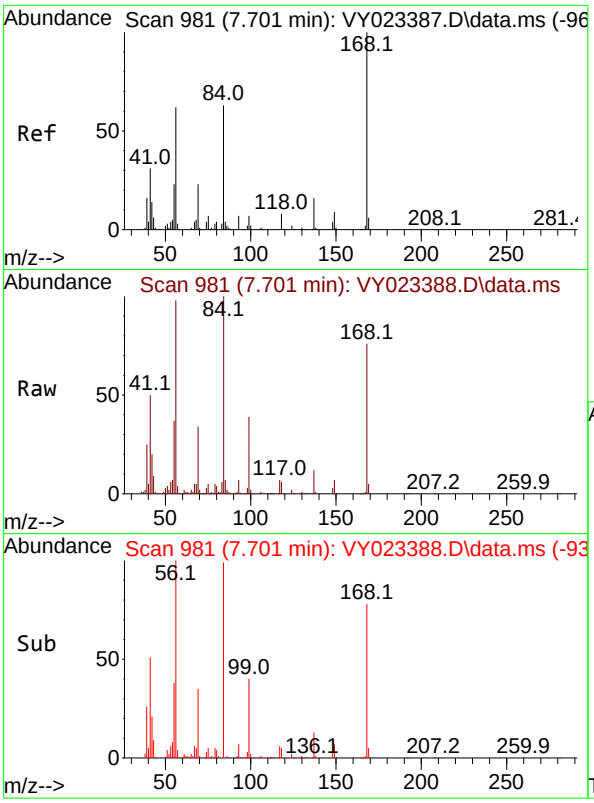


#30
Chloroform
Concen: 91.401 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

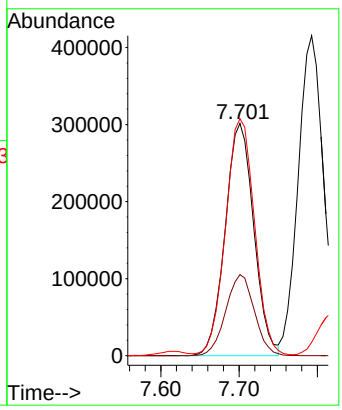
Tgt Ion: 56 Resp: 76708

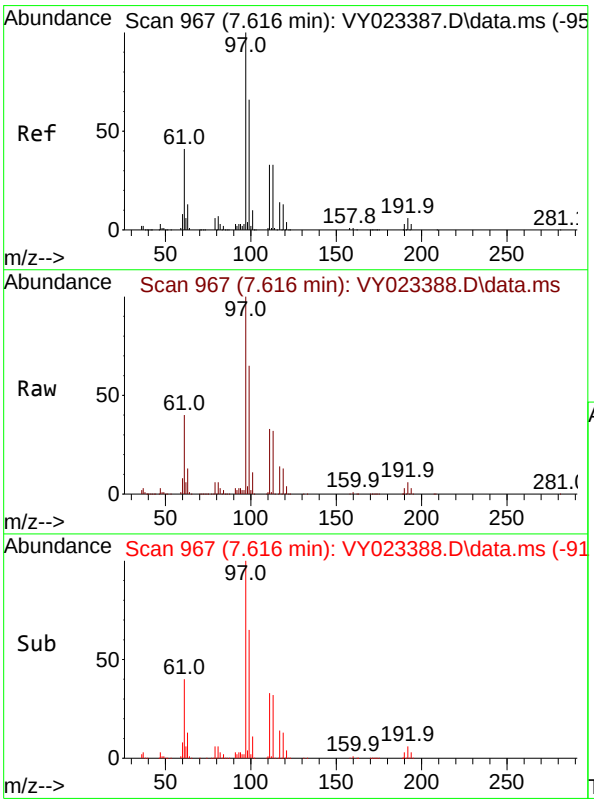
Ion	Ratio	Lower	Upper
56	100		
69	34.9	30.0	45.0
84	100.2	81.2	121.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

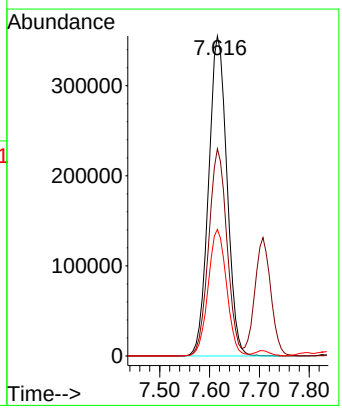


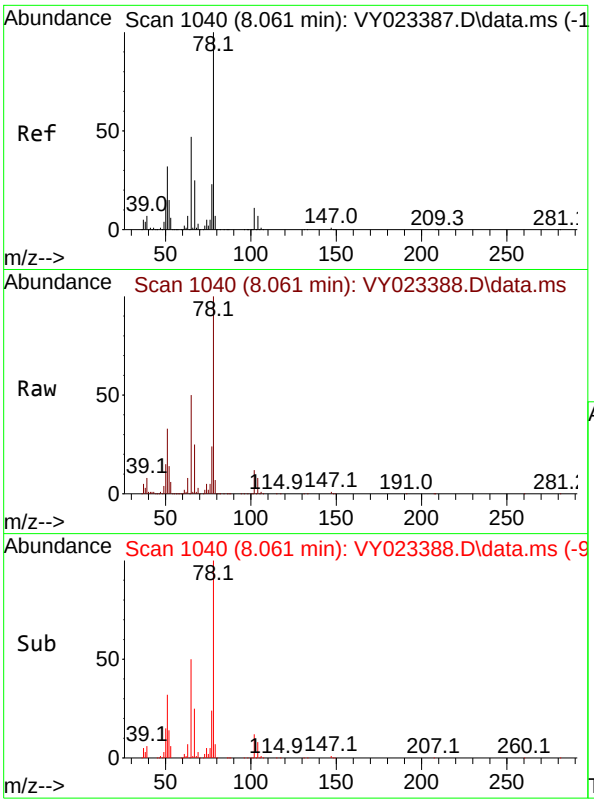


#32
1,1,1-Trichloroethane
Concen: 92.399 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

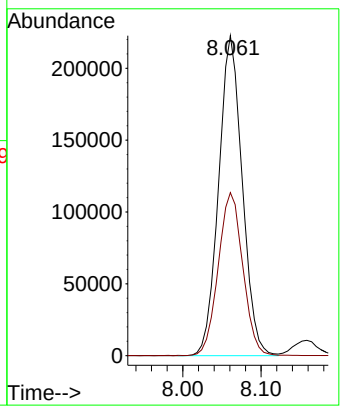




#33
1,2-Dichloroethane-d4
Concen: 90.510 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 65 Resp: 46700

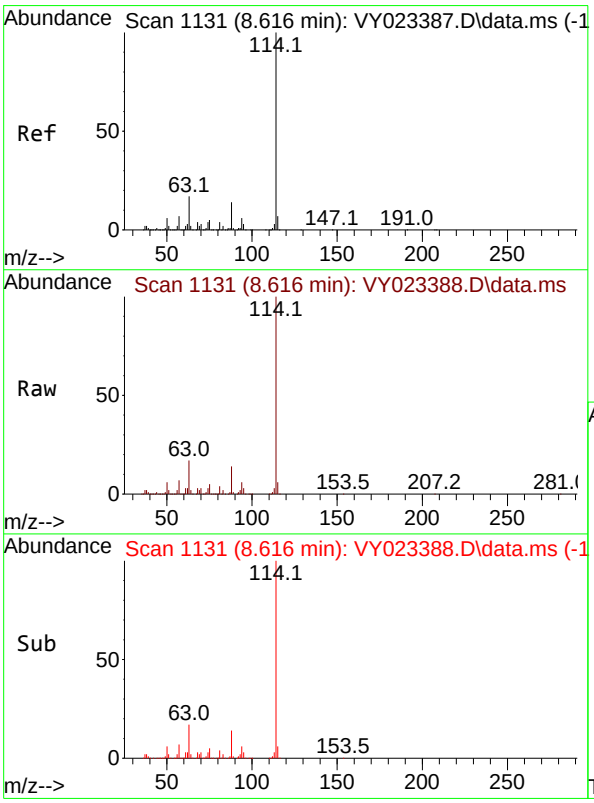
Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

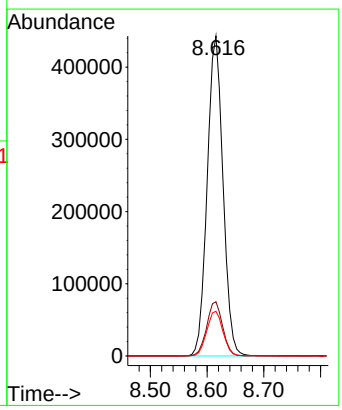
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

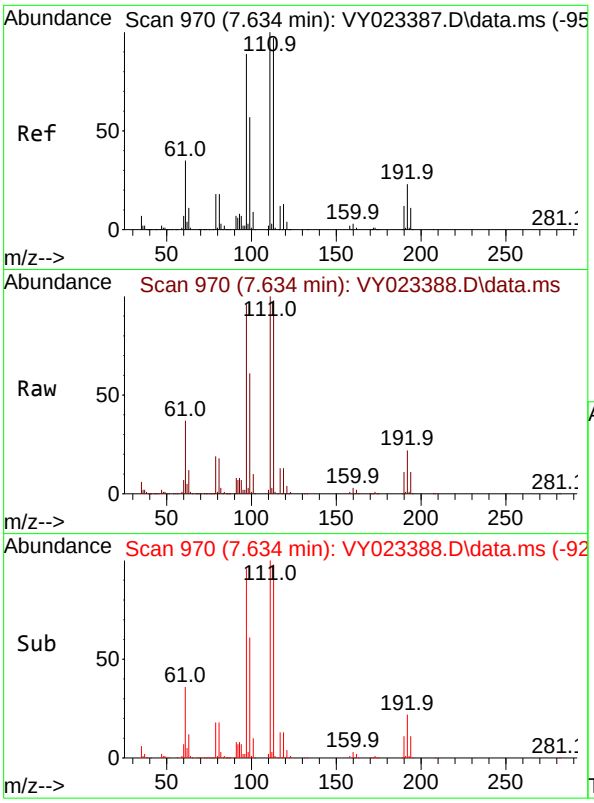


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

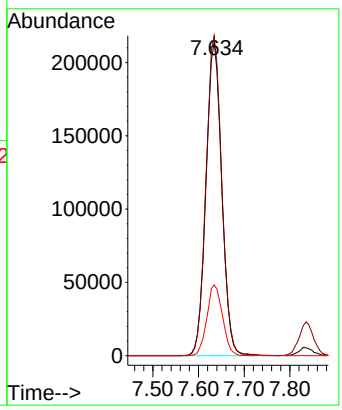
Tgt Ion:113 Resp: 51147

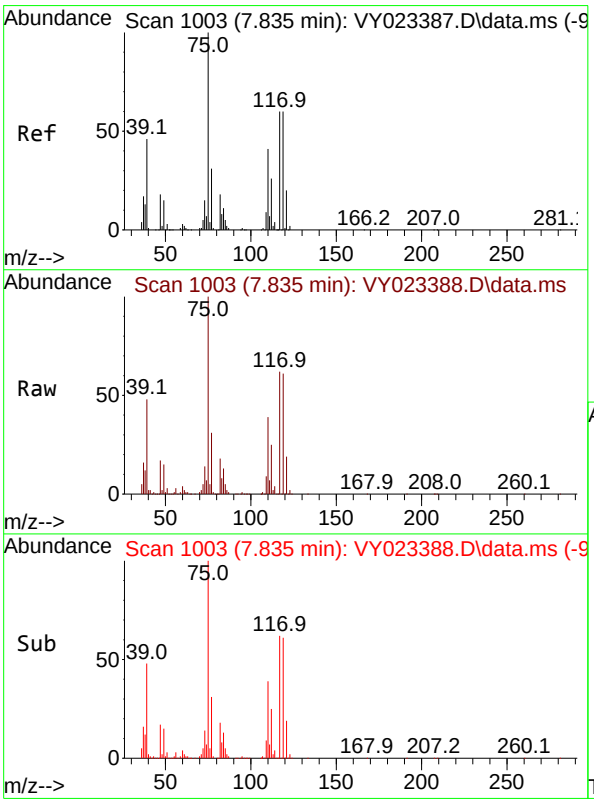
Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.8	122.6
192	22.5	18.0	27.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

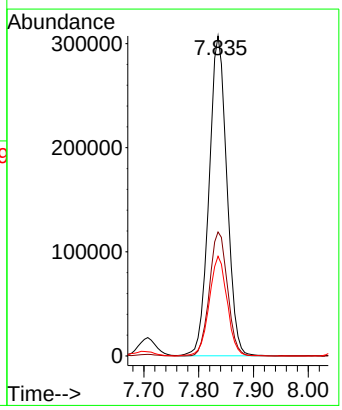


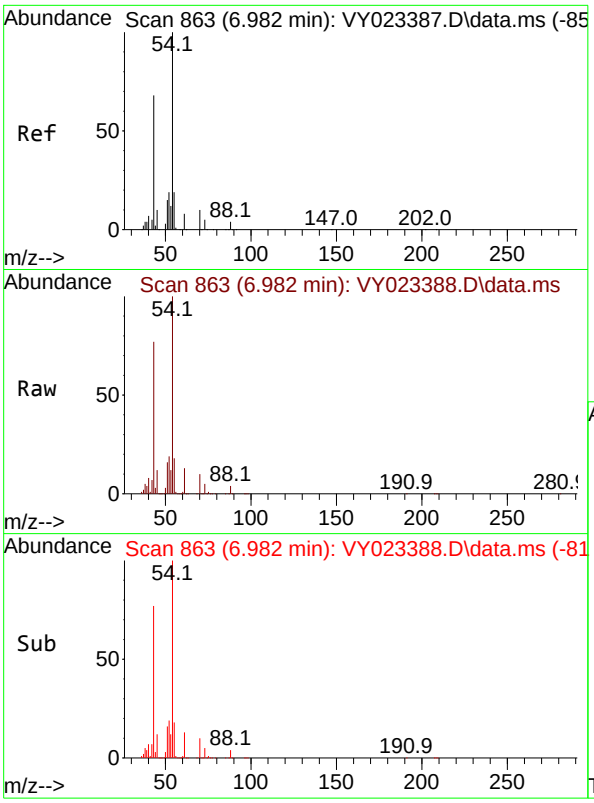


#36
1,1-Dichloropropene
Concen: 94.516 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

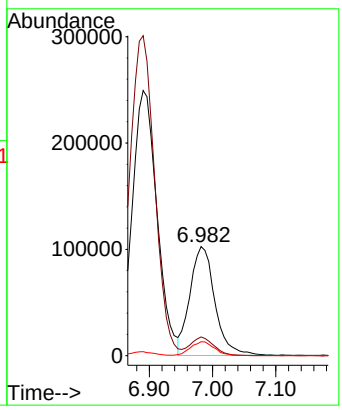
Tgt Ion: 43 Resp: 28056

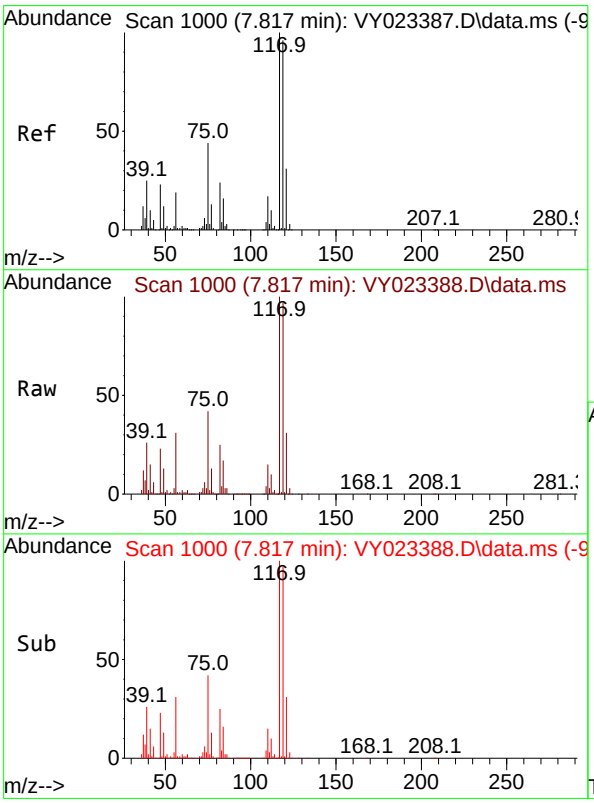
Ion	Ratio	Lower	Upper
43	100		
61	15.9	11.8	17.8
70	12.4	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

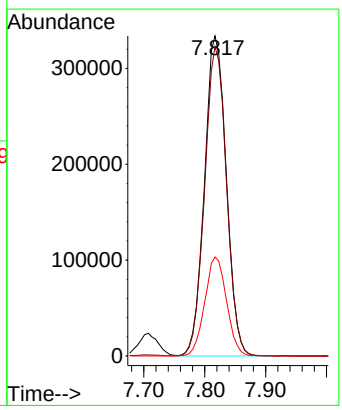


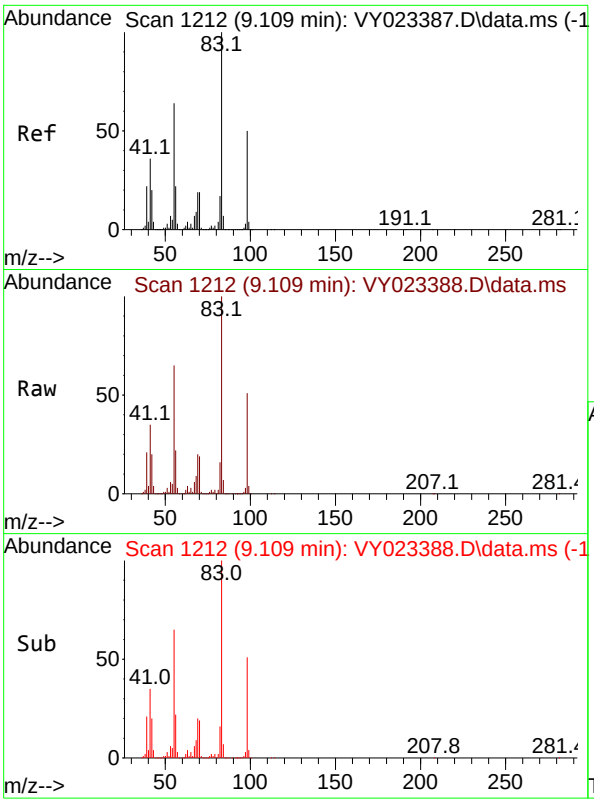


#38
Carbon Tetrachloride
Concen: 97.894 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

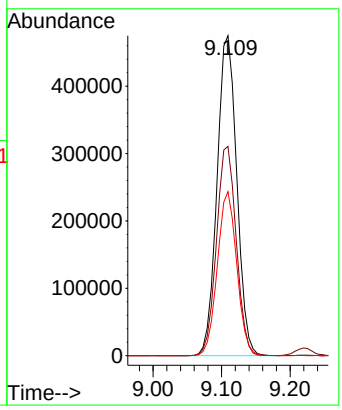




#39
Methylcyclohexane
Concen: 101.024 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 83 Resp: 94766

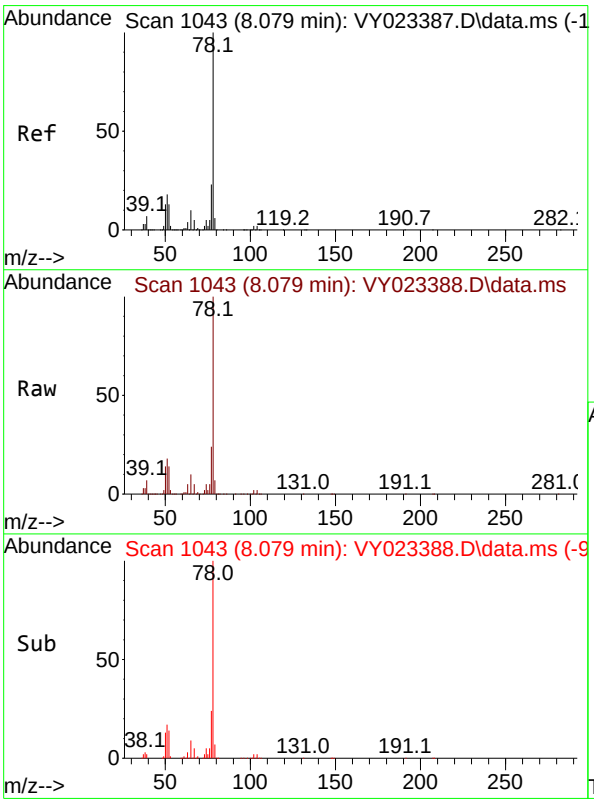
Ion	Ratio	Lower	Upper
83	100		
55	65.4	51.4	77.2
98	51.3	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

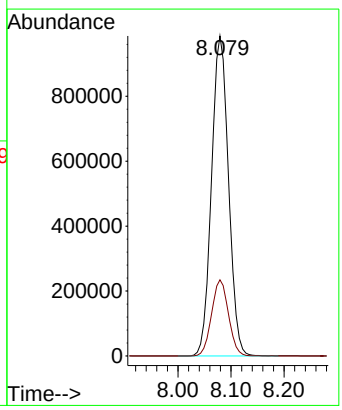
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

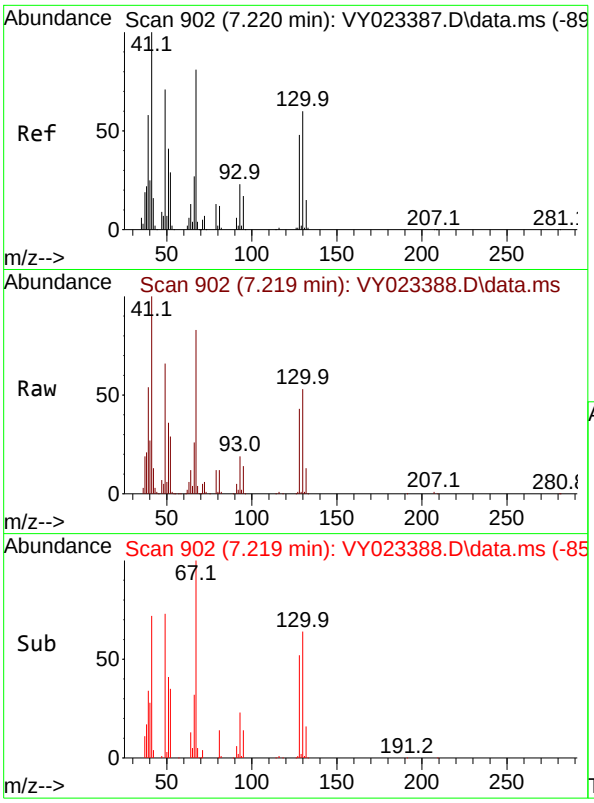


#40
Benzene
Concen: 96.000 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 78 Resp: 2192645

Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.3	27.5

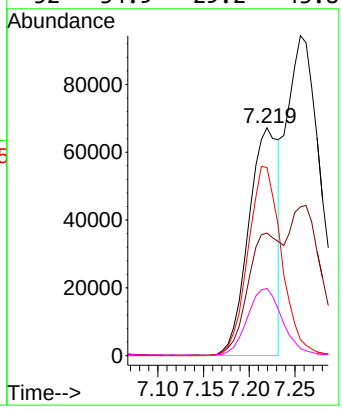




#41
Methacrylonitrile
Concen: 101.200 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 41 Resp: 15223

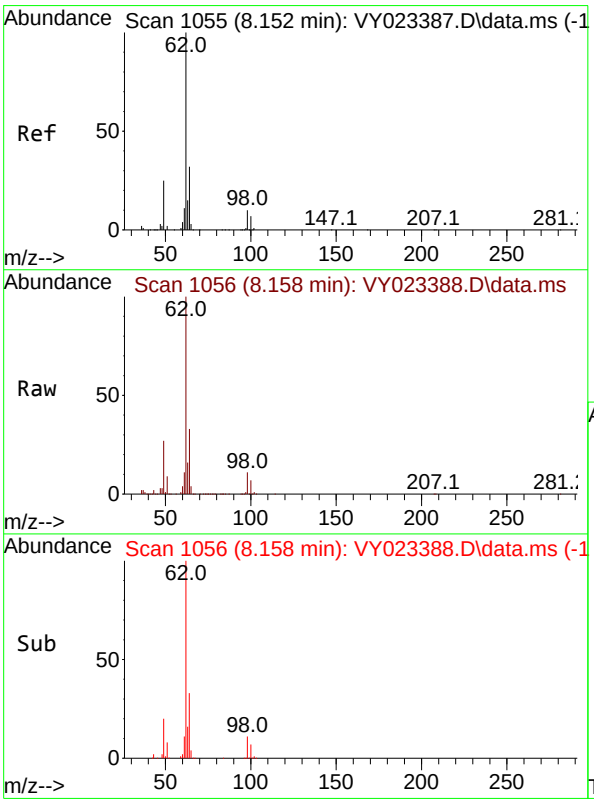
Ion	Ratio	Lower	Upper
41	100		
39	62.6	52.2	78.4
67	93.9	74.9	112.3
52	34.9	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

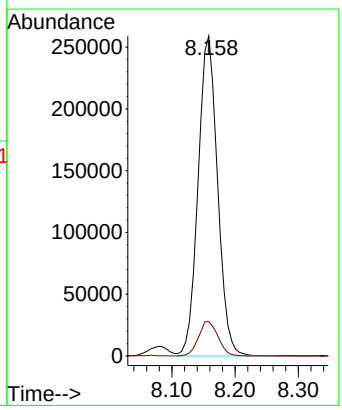
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

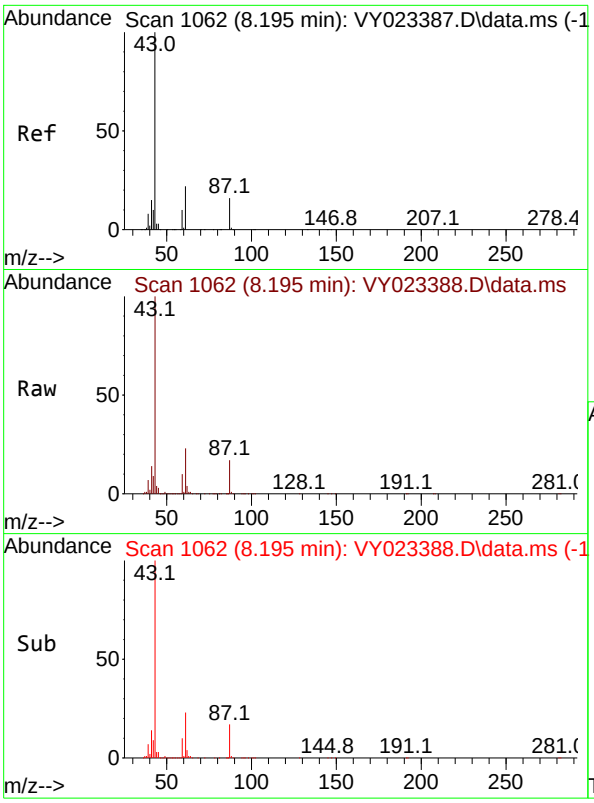


#42
1,2-Dichloroethane
Concen: 95.449 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 62 Resp: 554810

Ion	Ratio	Lower	Upper
62	100		
98	10.8	0.0	21.6

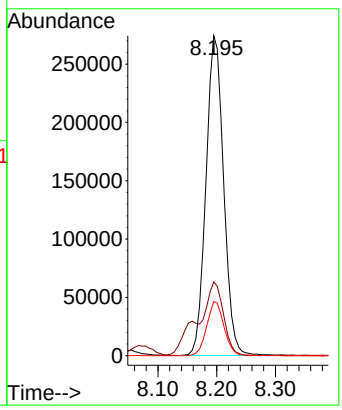




#43
Isopropyl Acetate
Concen: 101.815 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 57365

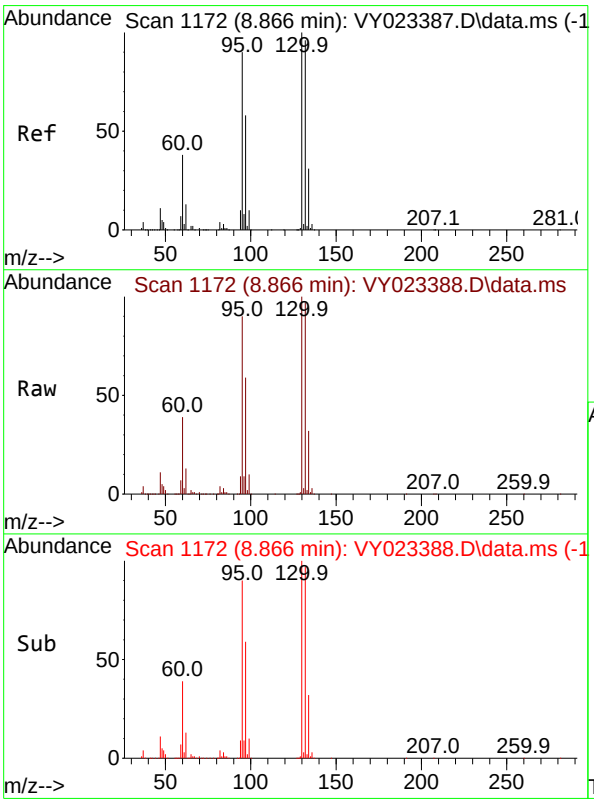
Ion	Ratio	Lower	Upper
43	100		
61	23.0	18.1	27.1
87	16.6	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

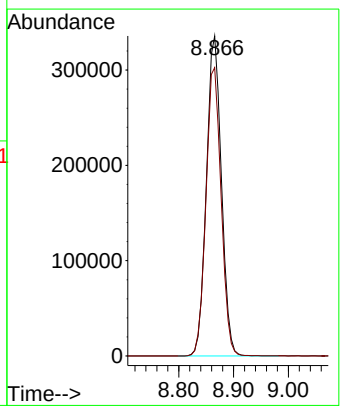
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

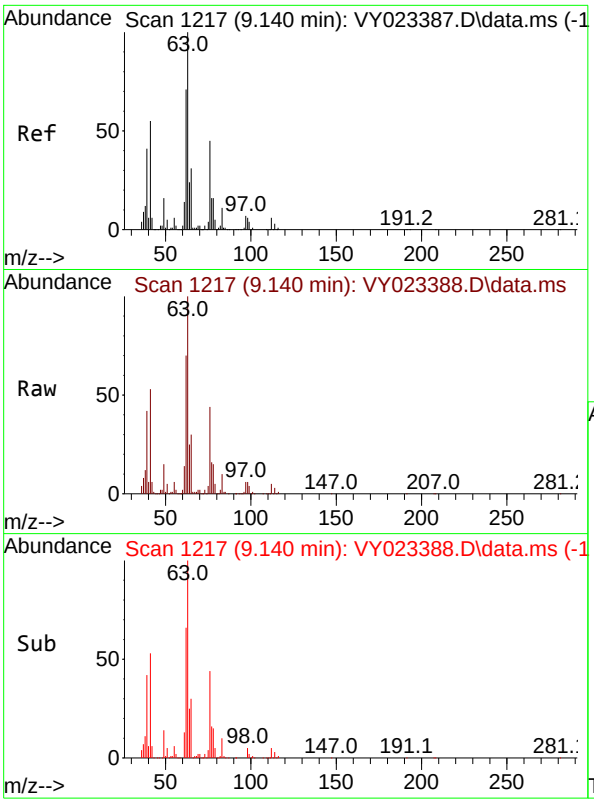


#44
Trichloroethene
Concen: 99.245 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:130 Resp: 636149

Ion	Ratio	Lower	Upper
130	100		
95	90.1	0.0	180.6

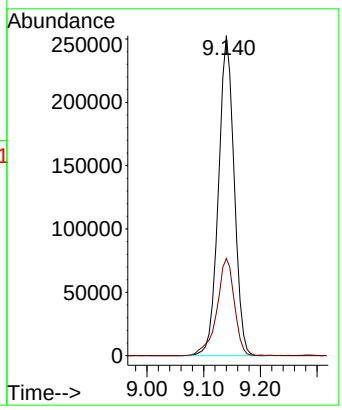




#45
1,2-Dichloropropane
Concen: 94.381 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 63 Resp: 48508

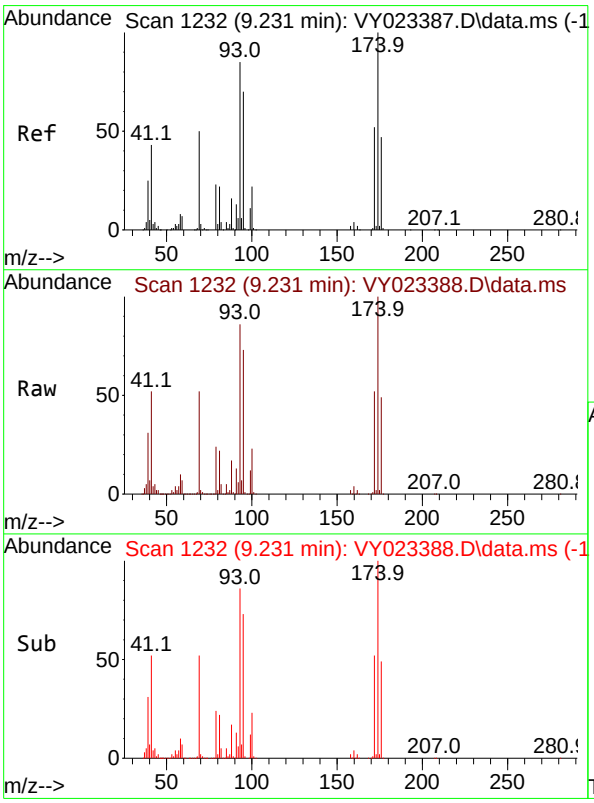
Ion	Ratio	Lower	Upper
63	100		
65	30.3	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

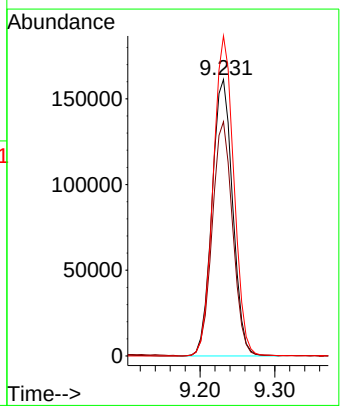
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

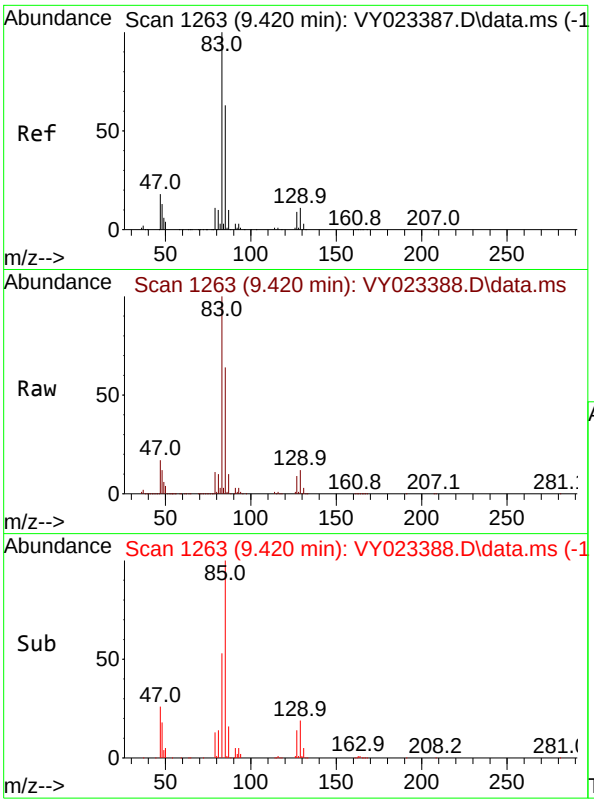


#46
Dibromomethane
Concen: 98.596 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

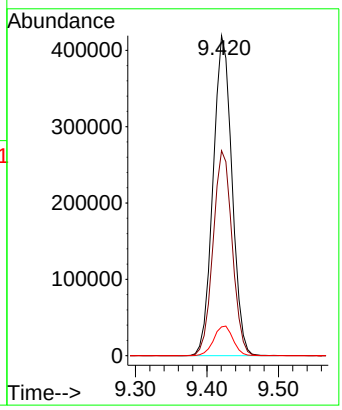




#47
Bromodichloromethane
Concen: 97.210 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 83 Resp: 76923

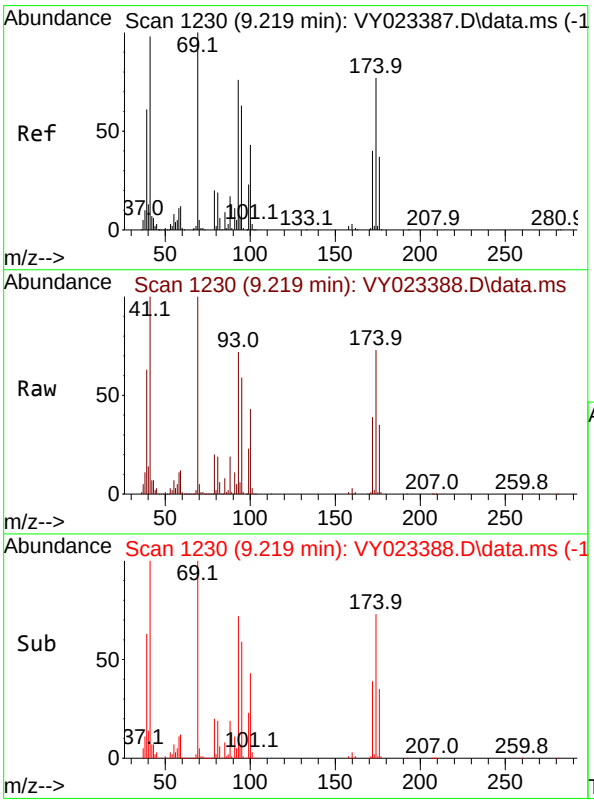
Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.8	76.2
127	9.0	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

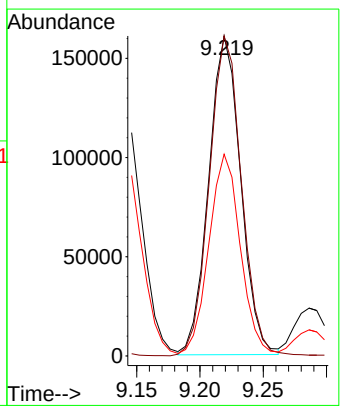
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

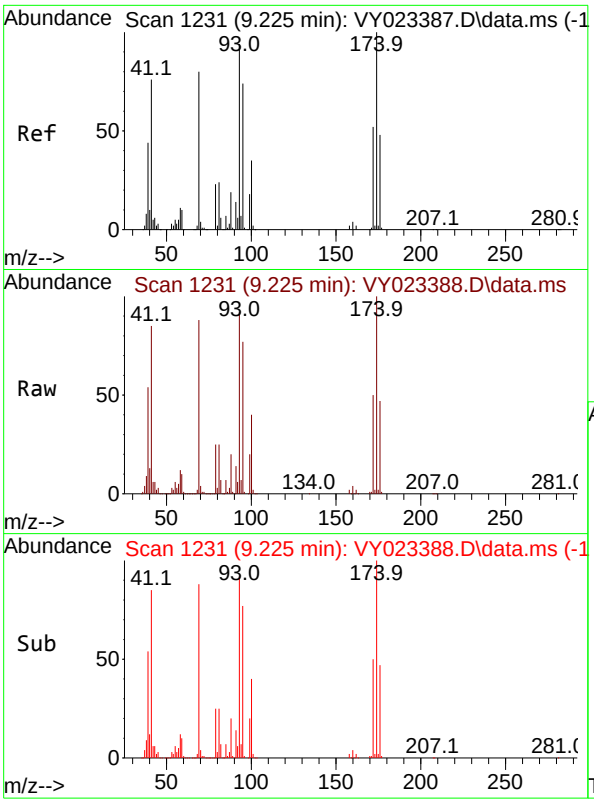


#48
Methyl methacrylate
Concen: 107.476 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

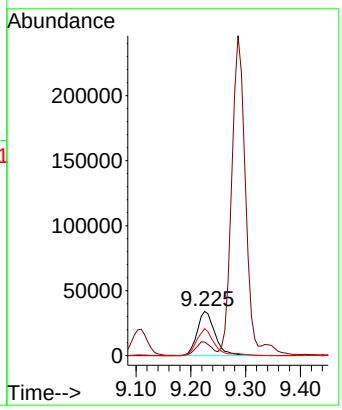




#49
1,4-Dioxane
Concen: 2374.722 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 88 Resp: 7730

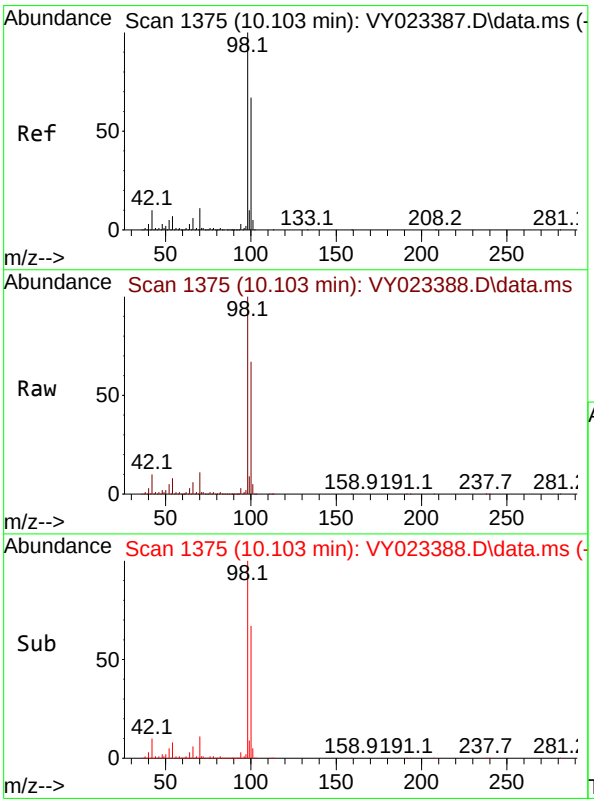
Ion	Ratio	Lower	Upper
88	100		
43	27.5	21.8	32.8
58	58.0	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

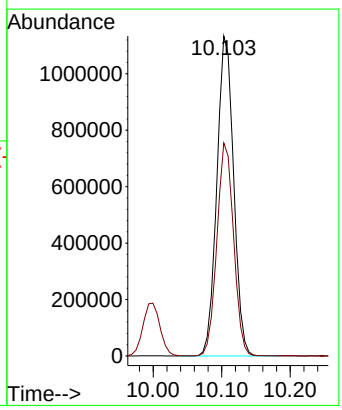
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

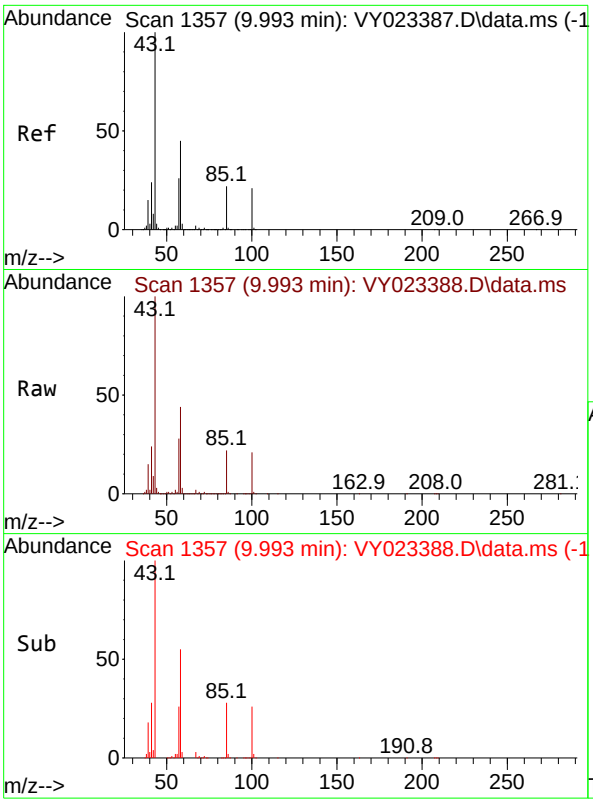


#50
Toluene-d8
Concen: 98.031 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 98 Resp: 1919872

Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4

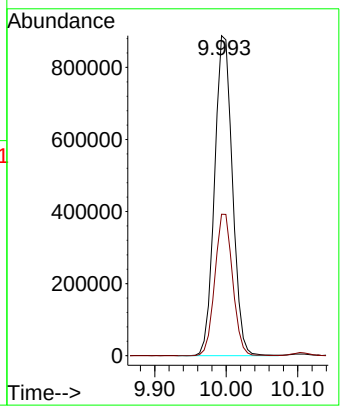




#51
4-Methyl-2-Pentanone
Concen: 533.386 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 153932

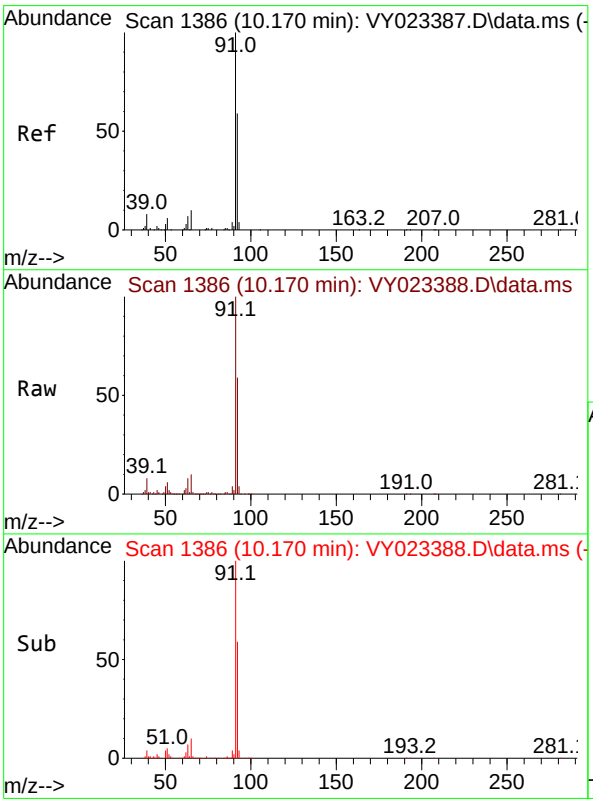
Ion	Ratio	Lower	Upper
43	100		
58	44.0	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

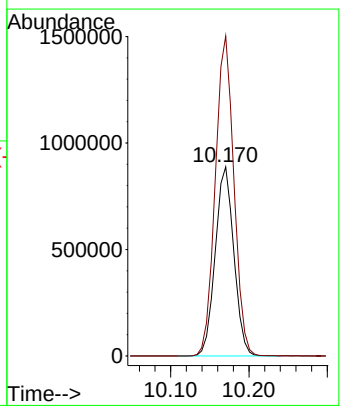
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

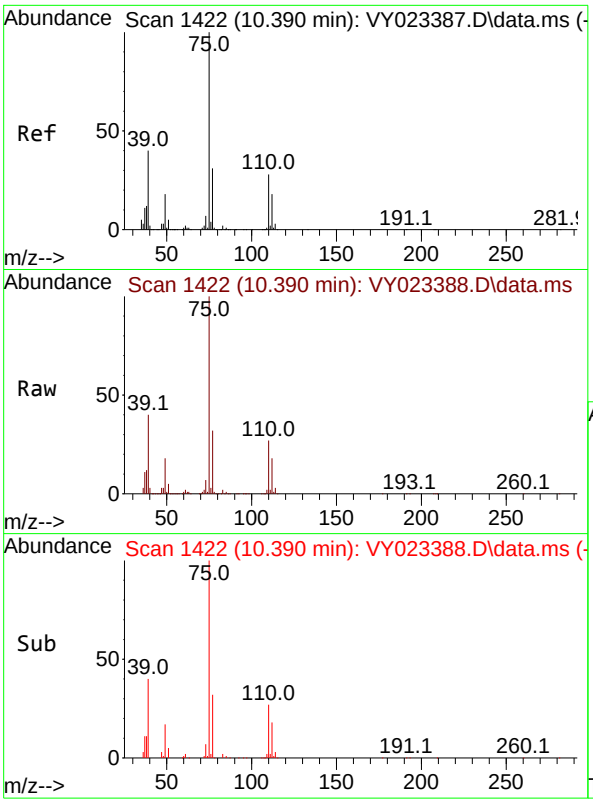


#52
Toluene
Concen: 100.905 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 92 Resp: 1462927

Ion	Ratio	Lower	Upper
92	100		
91	169.6	136.4	204.6

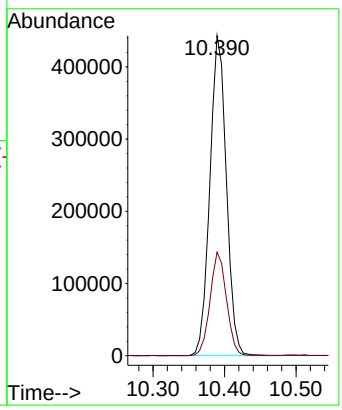




#53
t-1,3-Dichloropropene
Concen: 104.537 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 71047

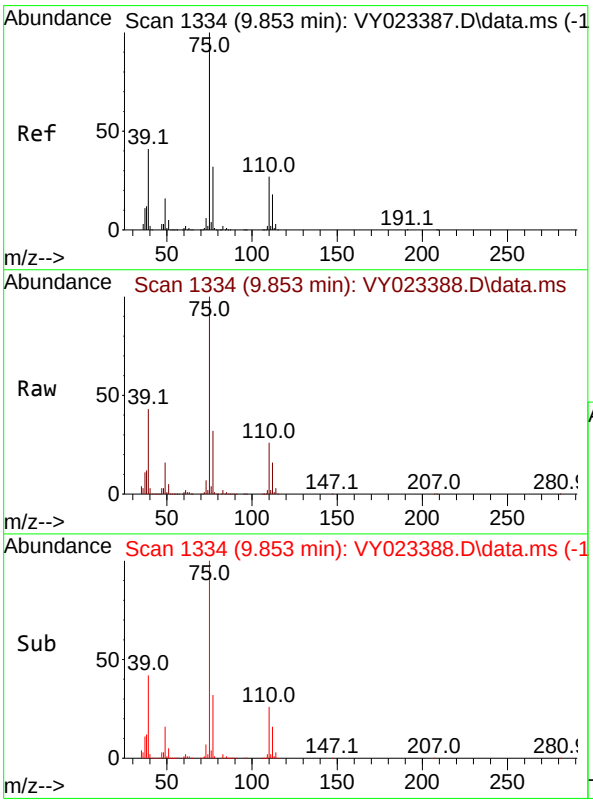
Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

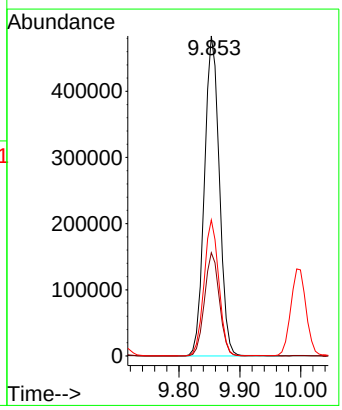
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

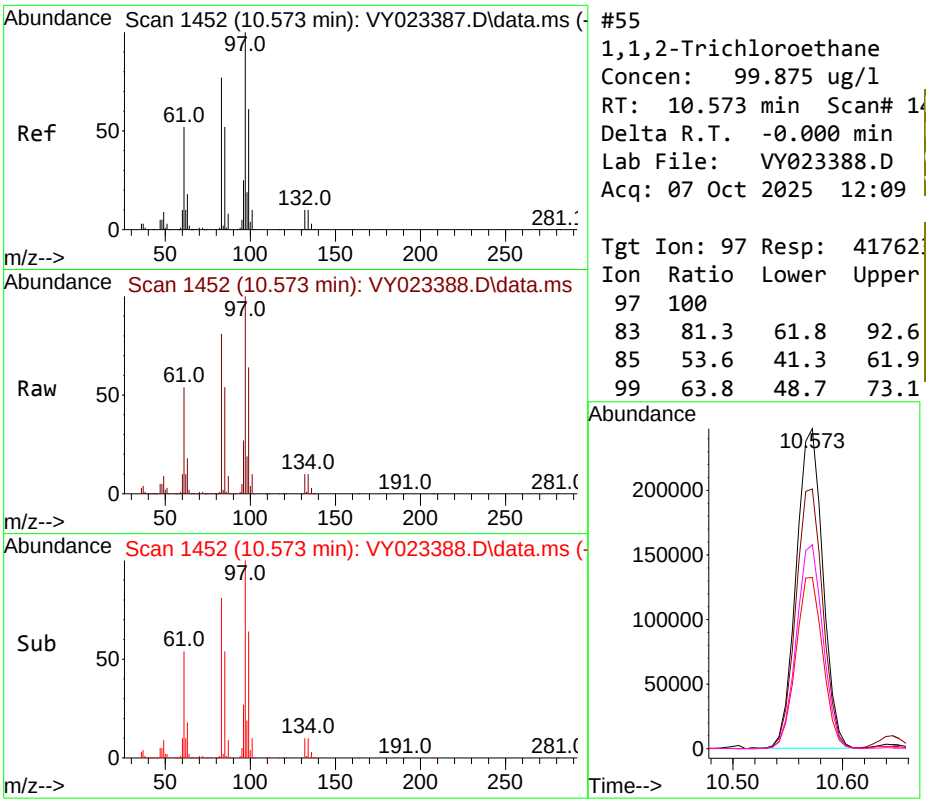


#54
cis-1,3-Dichloropropene
Concen: 101.302 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

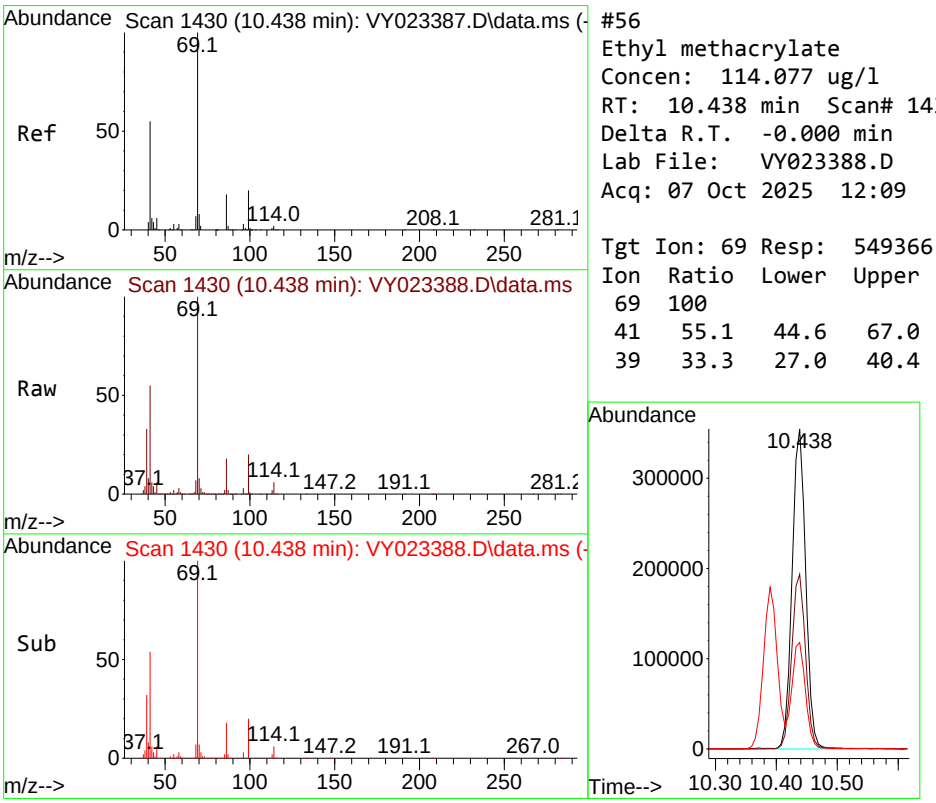
Tgt Ion: 97 Resp: 41762

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

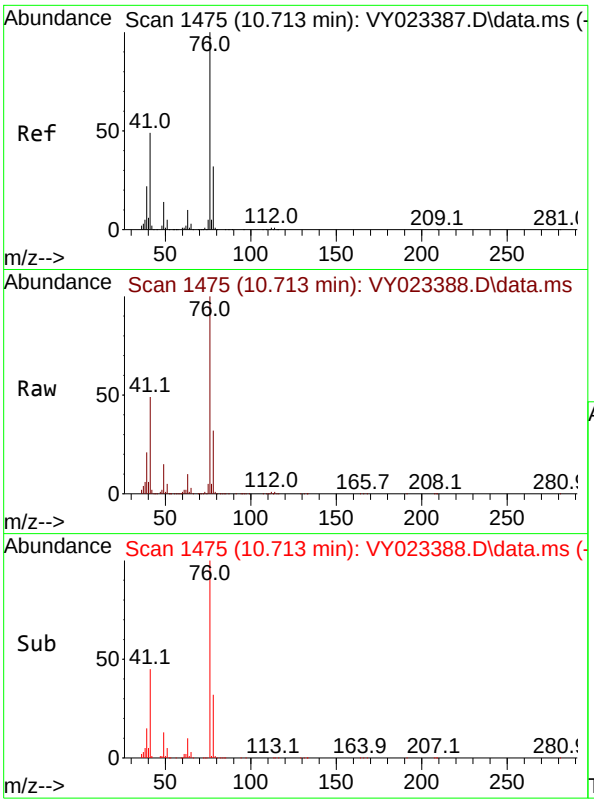
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

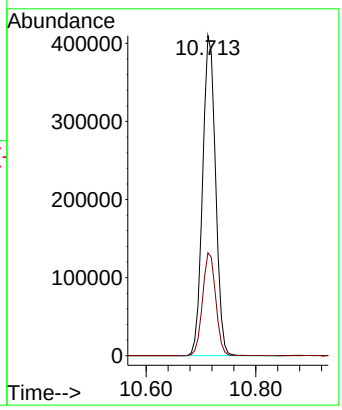
Ion	Ratio	Lower	Upper
69	100		
41	55.1	44.6	67.0
39	33.3	27.0	40.4



#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

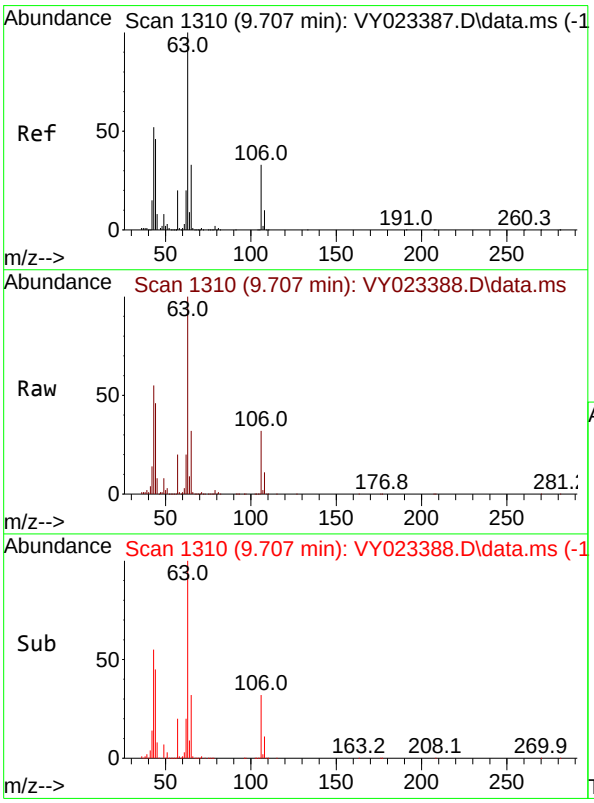
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

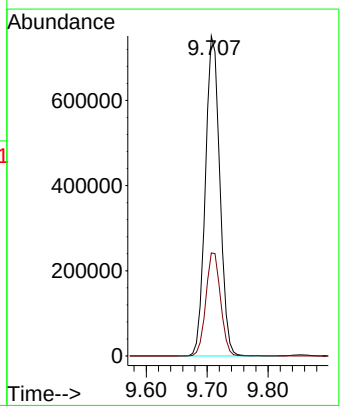
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

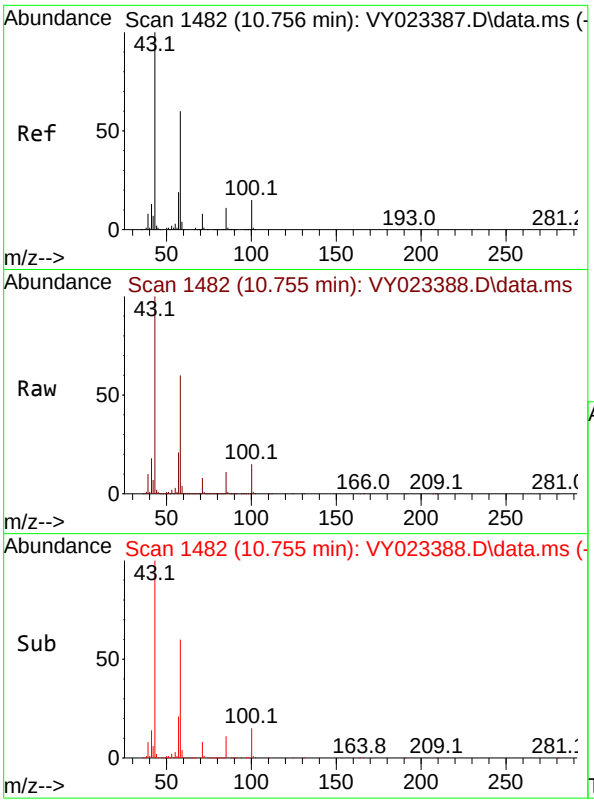


#58
2-Chloroethyl Vinyl ether
Concen: 588.731 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 63 Resp: 1240361

Ion	Ratio	Lower	Upper
63	100		
106	32.8	26.6	39.8

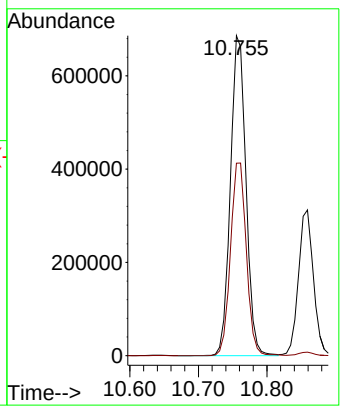




#59
2-Hexanone
Concen: 541.284 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 43 Resp: 108156

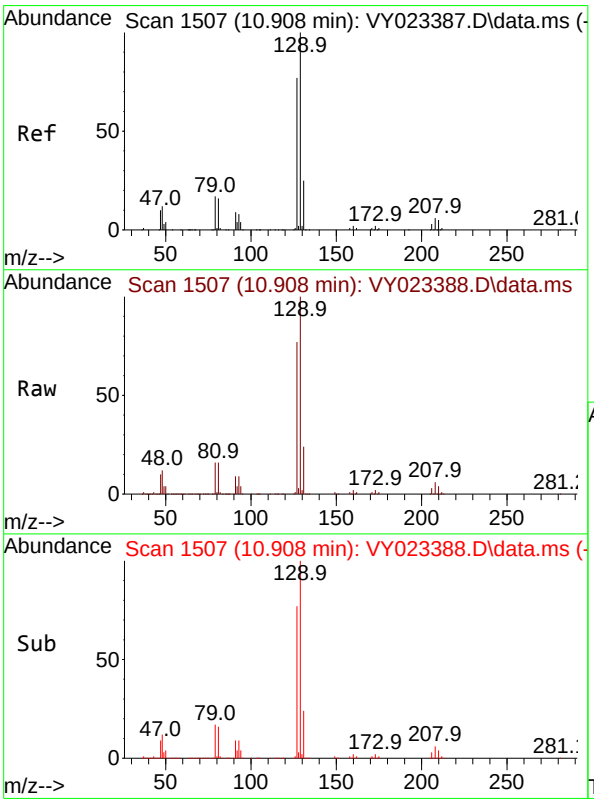
Ion	Ratio	Lower	Upper
43	100		
58	61.5	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

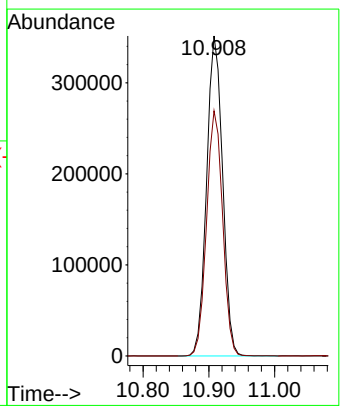
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

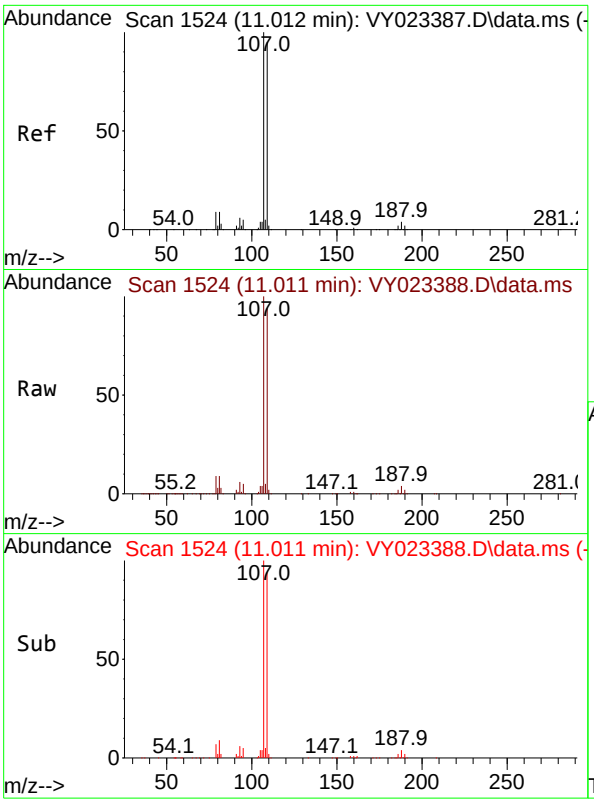


#60
Dibromochloromethane
Concen: 104.133 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:129 Resp: 593878

Ion	Ratio	Lower	Upper
129	100		
127	76.9	38.6	115.7

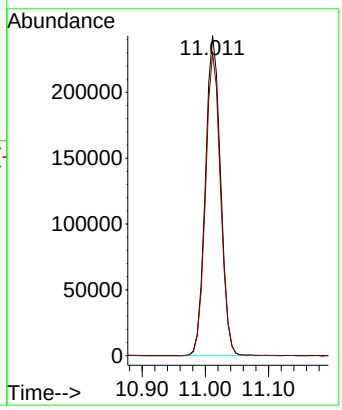




#61
1,2-Dibromoethane
Concen: 103.280 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:107 Resp: 40629

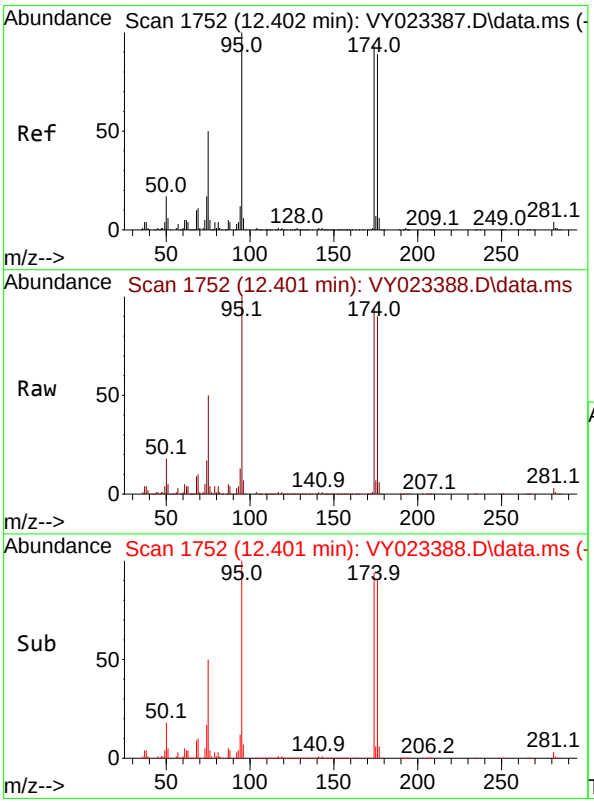
Ion	Ratio	Lower	Upper
107	100		
109	94.0	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

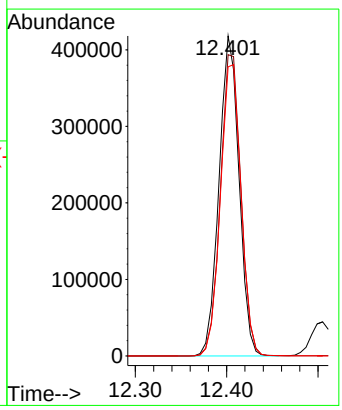
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

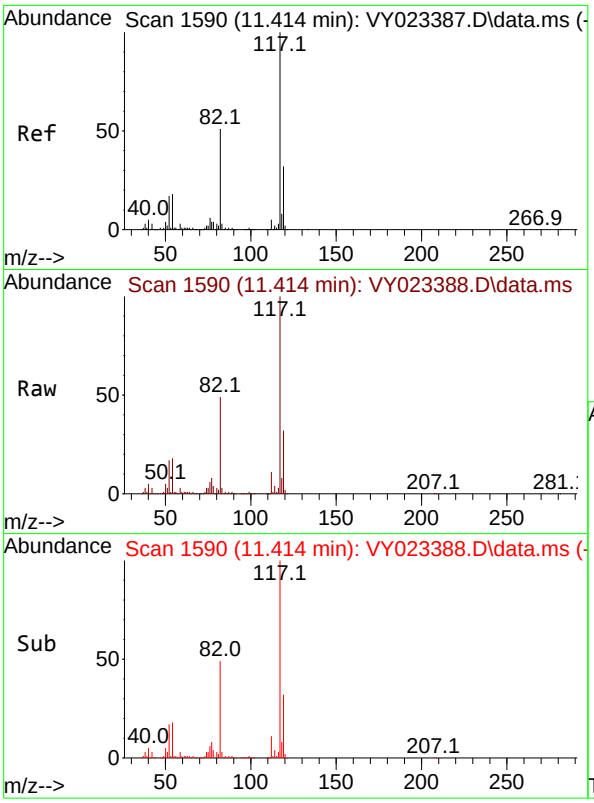


#62
4-Bromofluorobenzene
Concen: 103.007 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

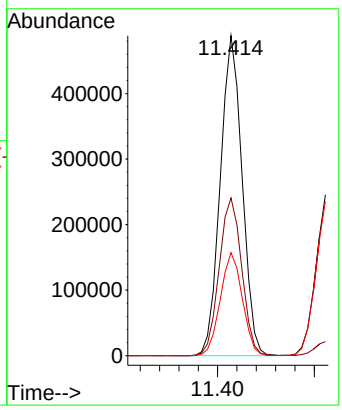




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:117 Resp: 76436

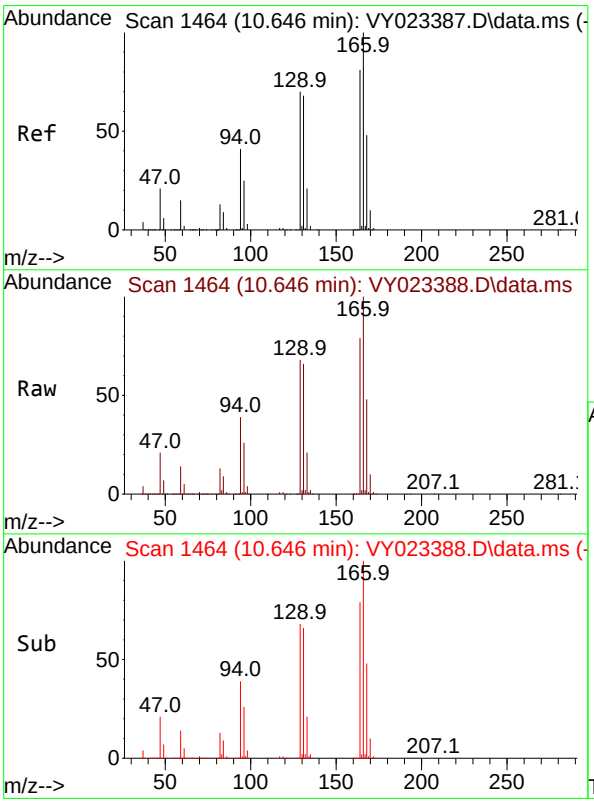
Ion	Ratio	Lower	Upper
117	100		
82	49.3	41.0	61.4
119	32.2	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

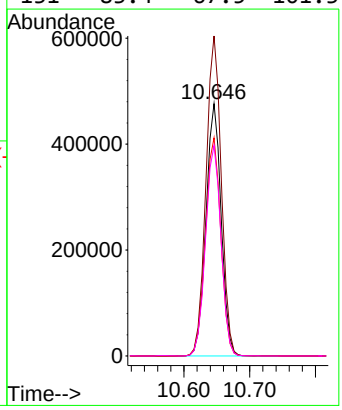
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

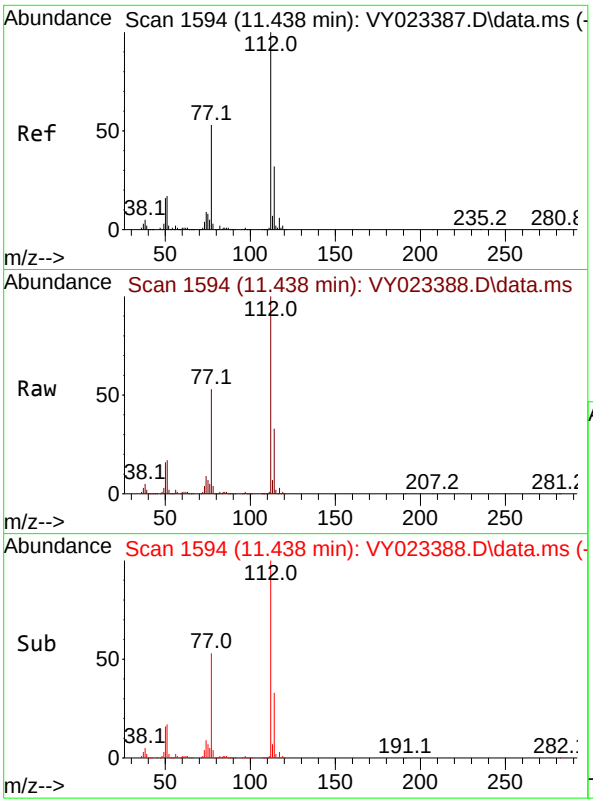


#64
Tetrachloroethene
Concen: 100.406 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

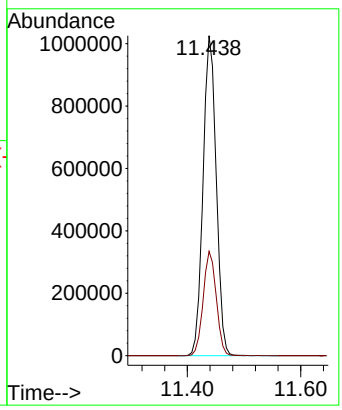




#65
Chlorobenzene
Concen: 99.649 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:112 Resp: 165514

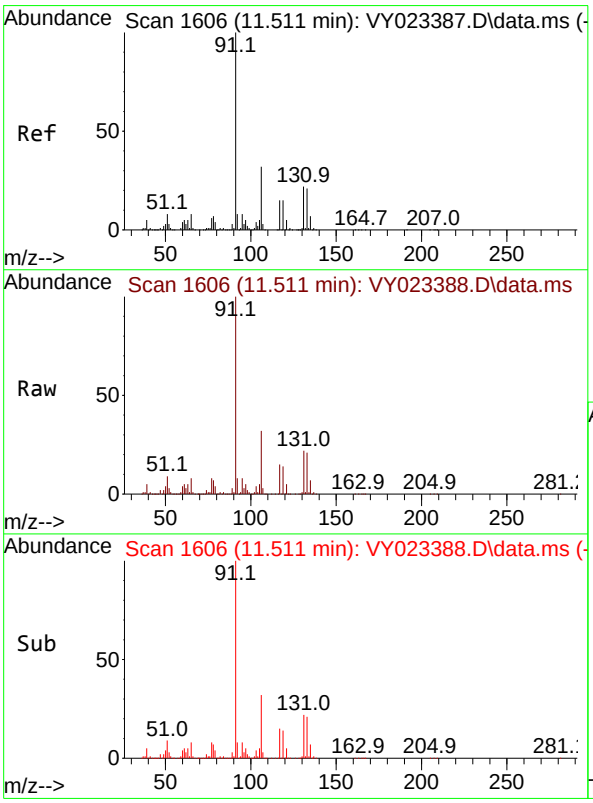
Ion	Ratio	Lower	Upper
112	100		
114	32.6	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

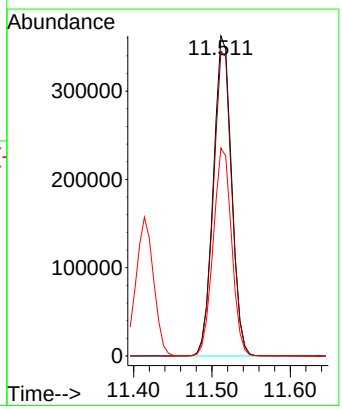
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

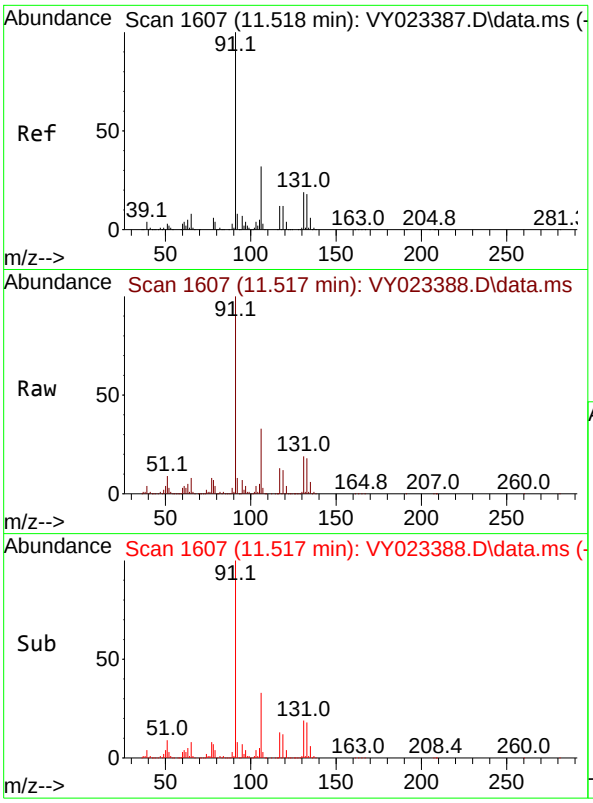


#66
1,1,1,2-Tetrachloroethane
Concen: 100.470 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

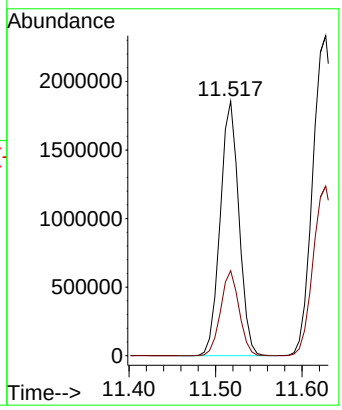
Tgt Ion: 91 Resp: 278825

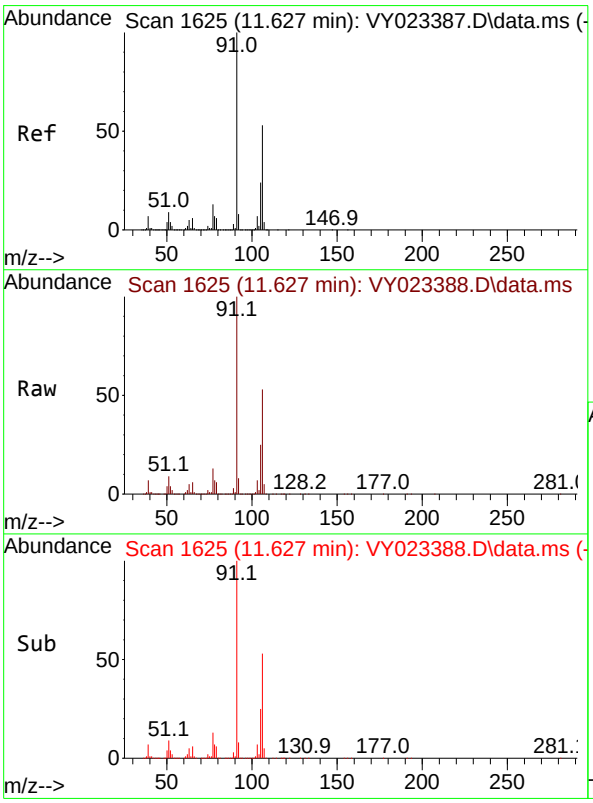
Ion	Ratio	Lower	Upper
91	100		
106	33.4	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

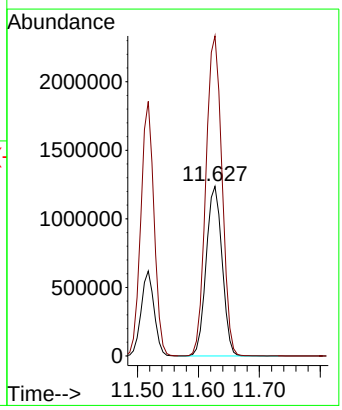


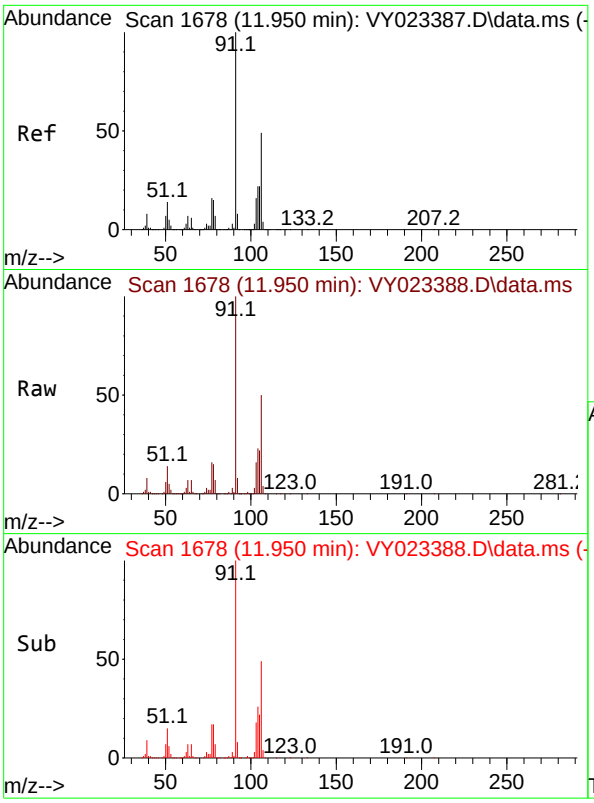


#68
m/p-Xylenes
Concen: 206.437 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:106 Resp: 2243033

Ion	Ratio	Lower	Upper
106	100		
91	190.5	152.6	229.0

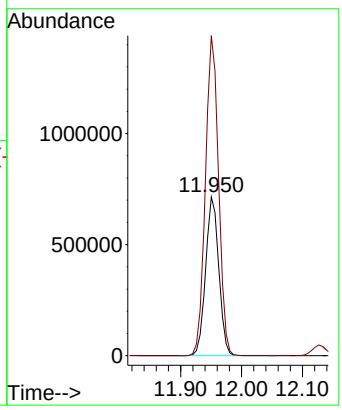




#69
o-Xylene
Concen: 106.611 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:106 Resp: 107233

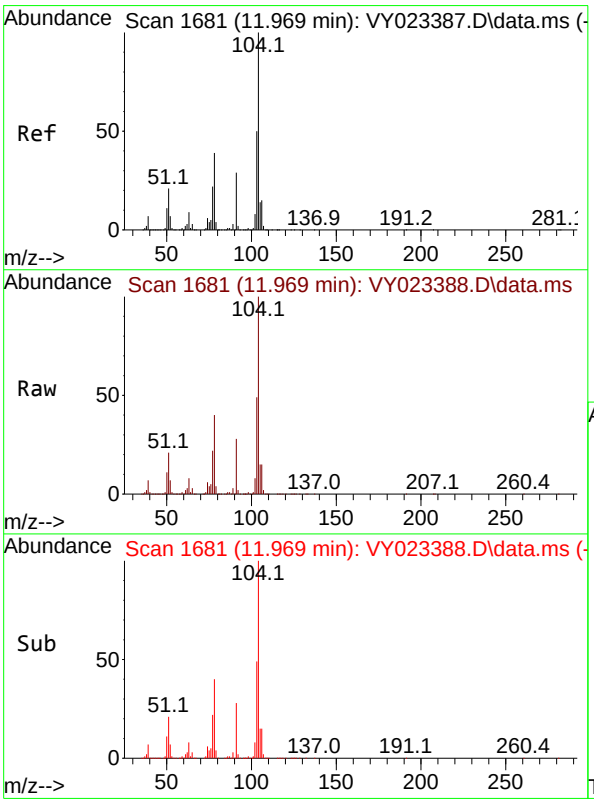
Ion	Ratio	Lower	Upper
106	100		
91	201.8	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

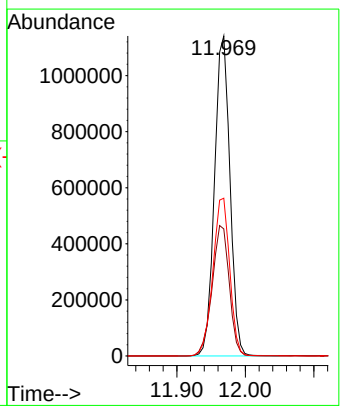
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

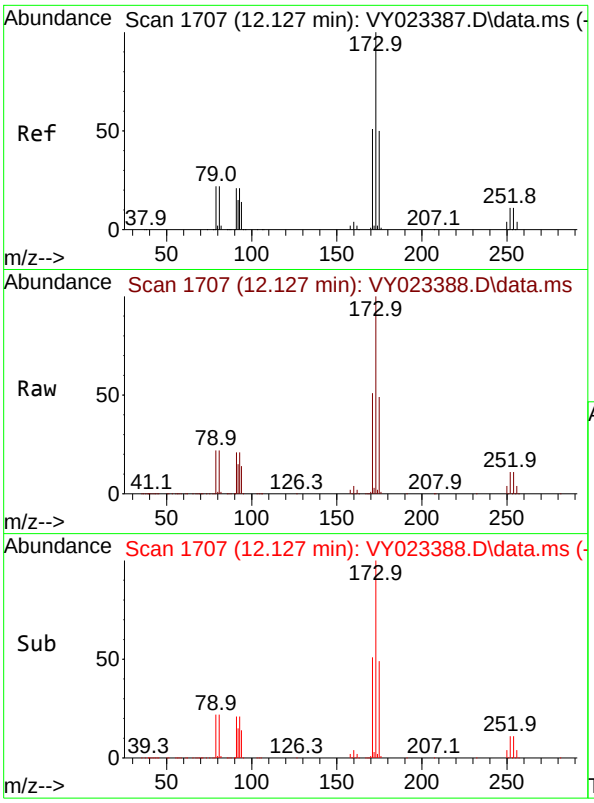


#70
Styrene
Concen: 107.344 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

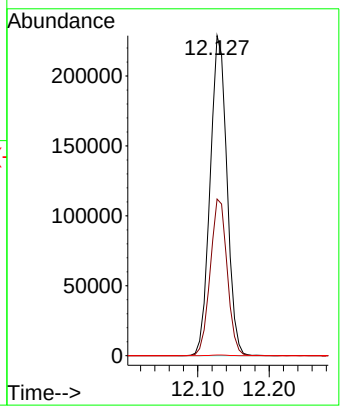




#71
Bromoform
Concen: 106.727 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:173 Resp: 37320

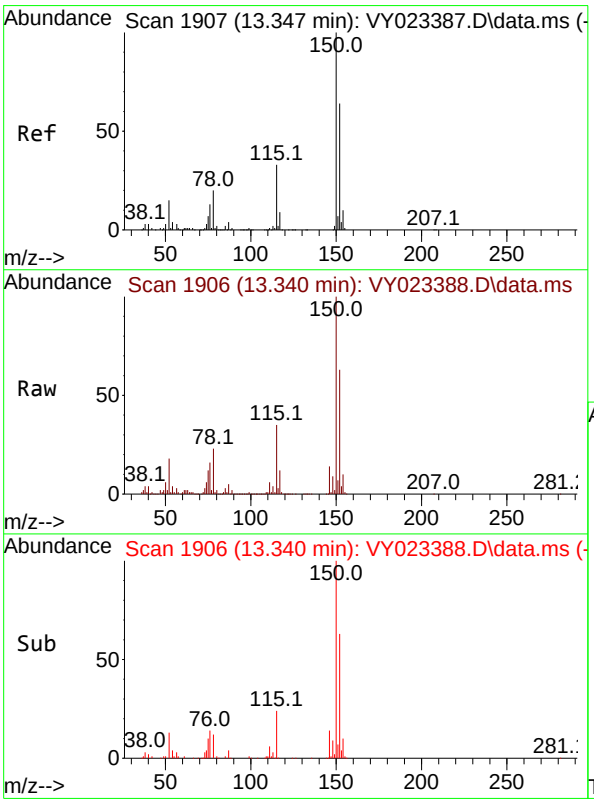
Ion	Ratio	Lower	Upper
173	100		
175	49.4	24.8	74.3
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

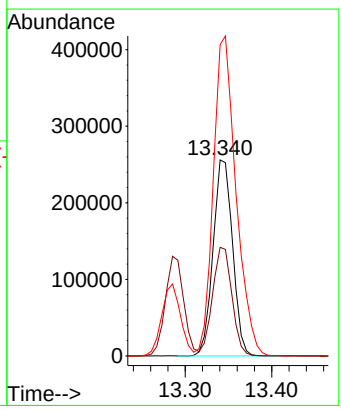
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

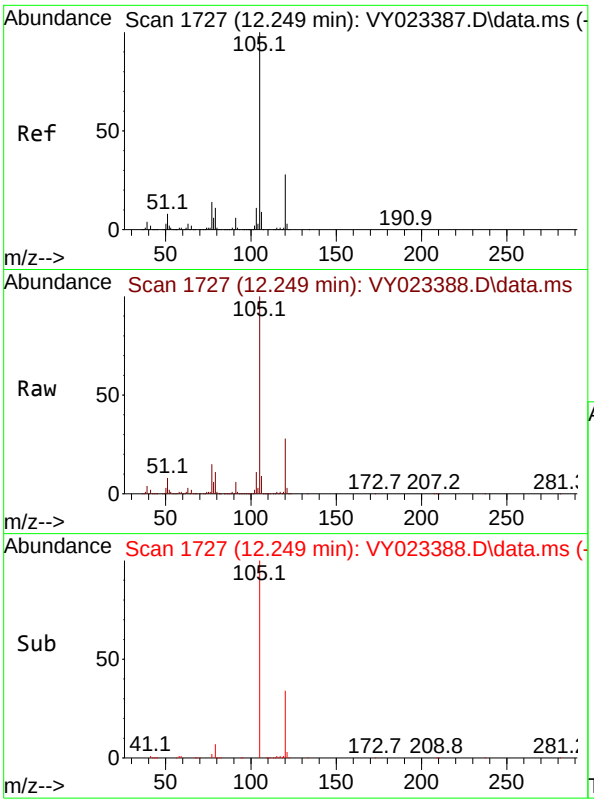


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.006 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

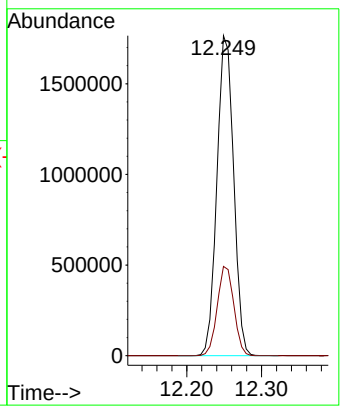




#73
Isopropylbenzene
Concen: 102.825 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:105 Resp: 274169

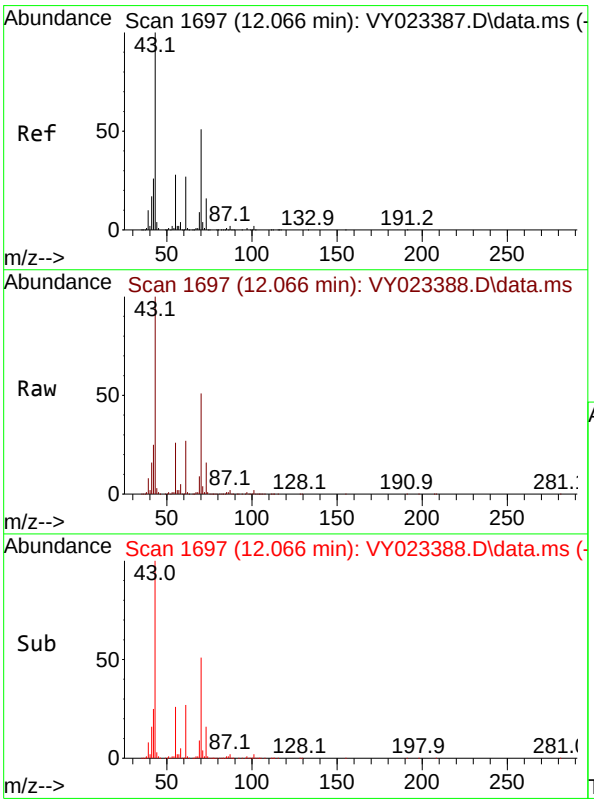
Ion	Ratio	Lower	Upper
105	100		
120	27.7	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

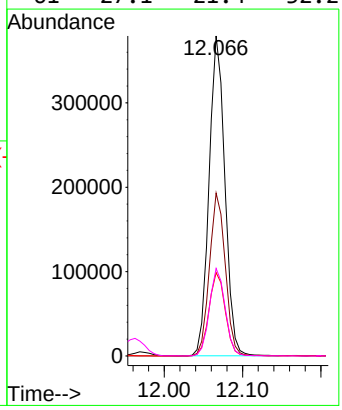
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

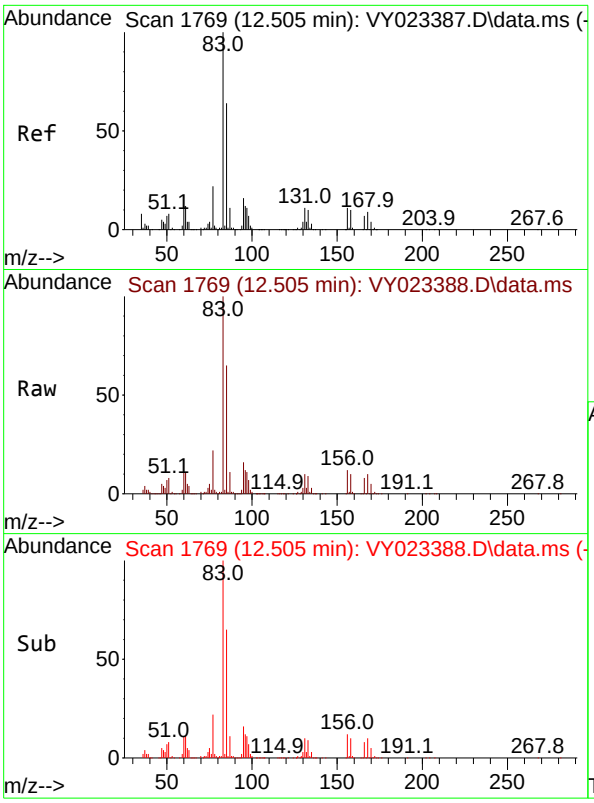


#74
N-amyl acetate
Concen: 106.818 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

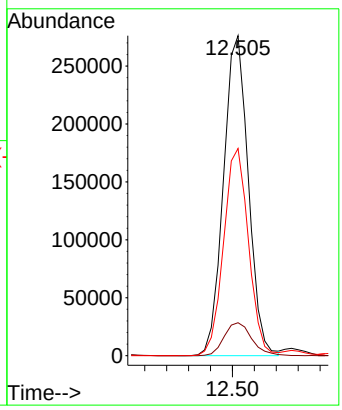




#75
1,1,2,2-Tetrachloroethane
Concen: 97.735 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 83 Resp: 43472

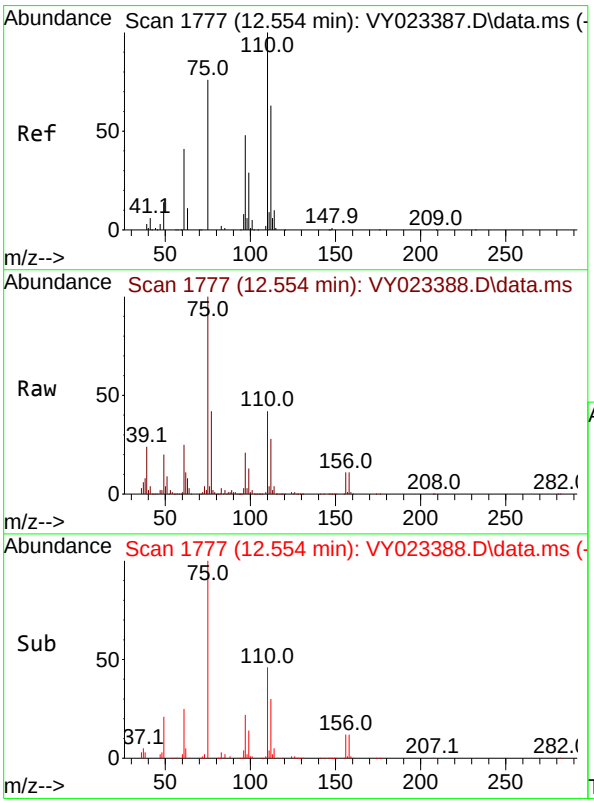
Ion	Ratio	Lower	Upper
83	100		
131	11.5	5.9	17.6
85	64.9	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

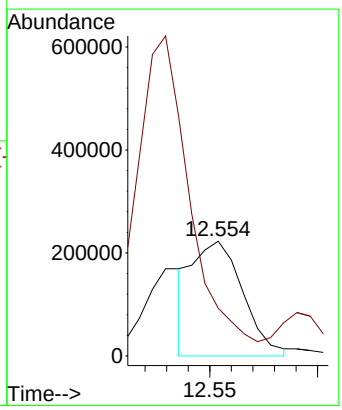
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

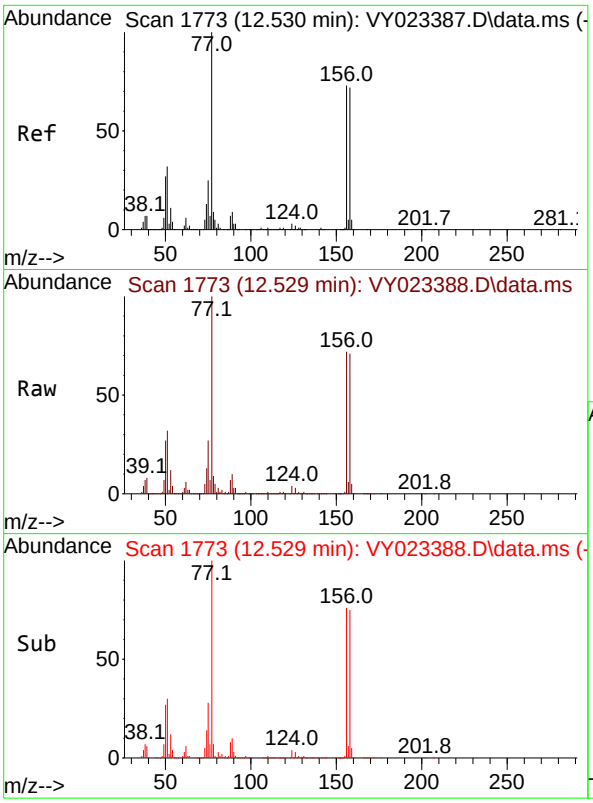


#76
1,2,3-Trichloropropane
Concen: 92.345 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 75 Resp: 364622

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

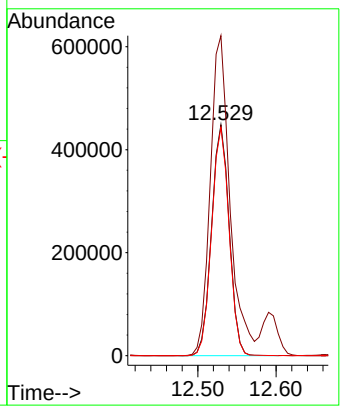




#77
Bromobenzene
Concen: 102.545 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:156 Resp: 70174

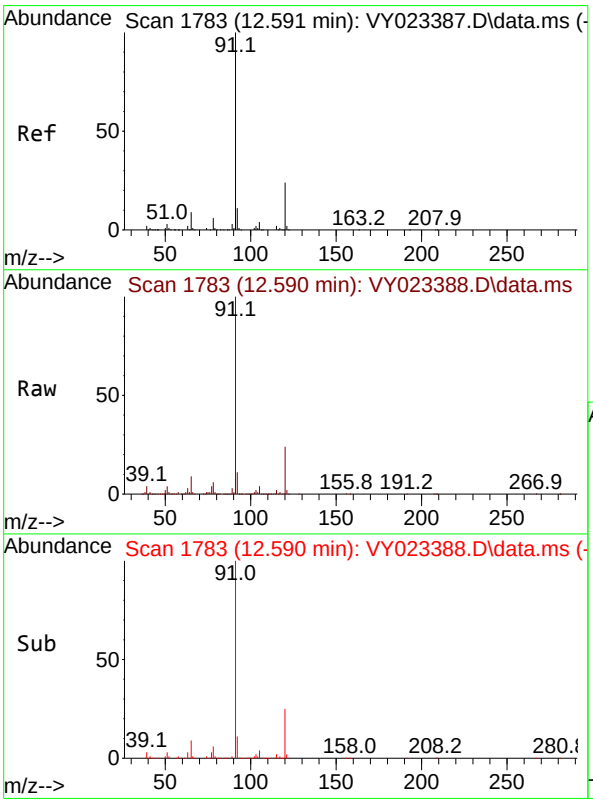
Ion	Ratio	Lower	Upper
156	100		
77	154.5	76.8	230.5
158	98.1	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

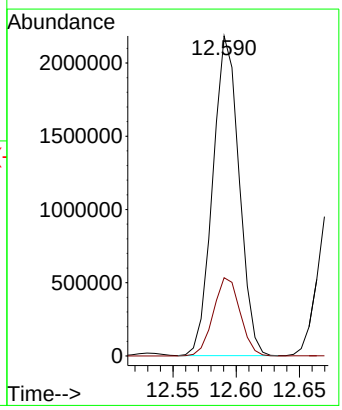
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

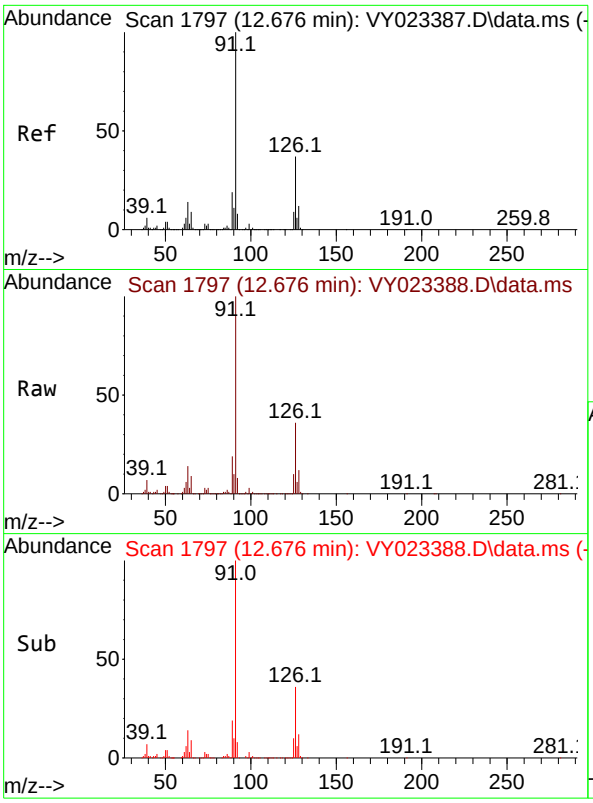


#78
n-propylbenzene
Concen: 100.958 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 3165894

Ion	Ratio	Lower	Upper
91	100		
120	24.8	12.3	36.8

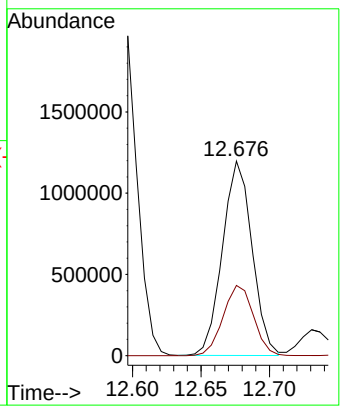




#79
2-Chlorotoluene
Concen: 99.426 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 180012

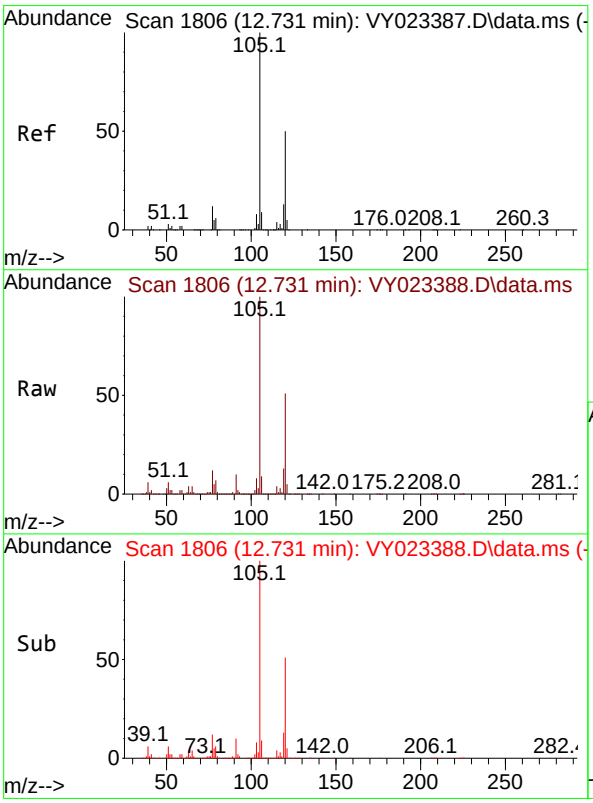
Ion	Ratio	Lower	Upper
91	100		
126	37.2	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

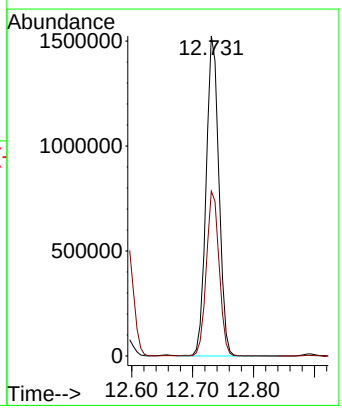
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

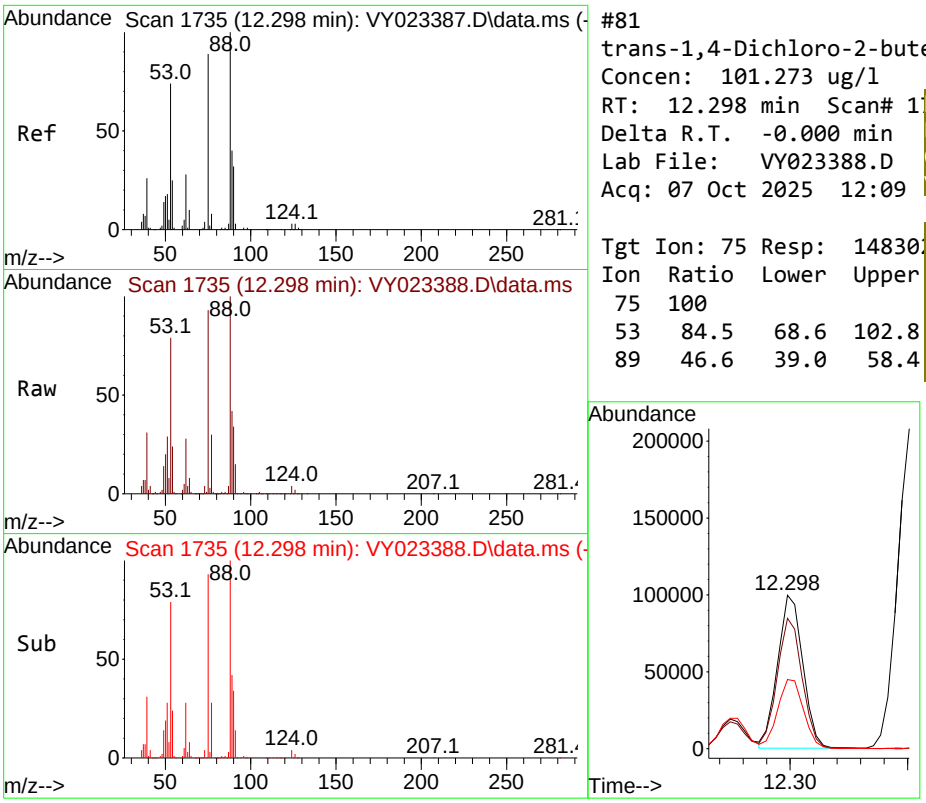


#80
1,3,5-Trimethylbenzene
Concen: 102.374 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

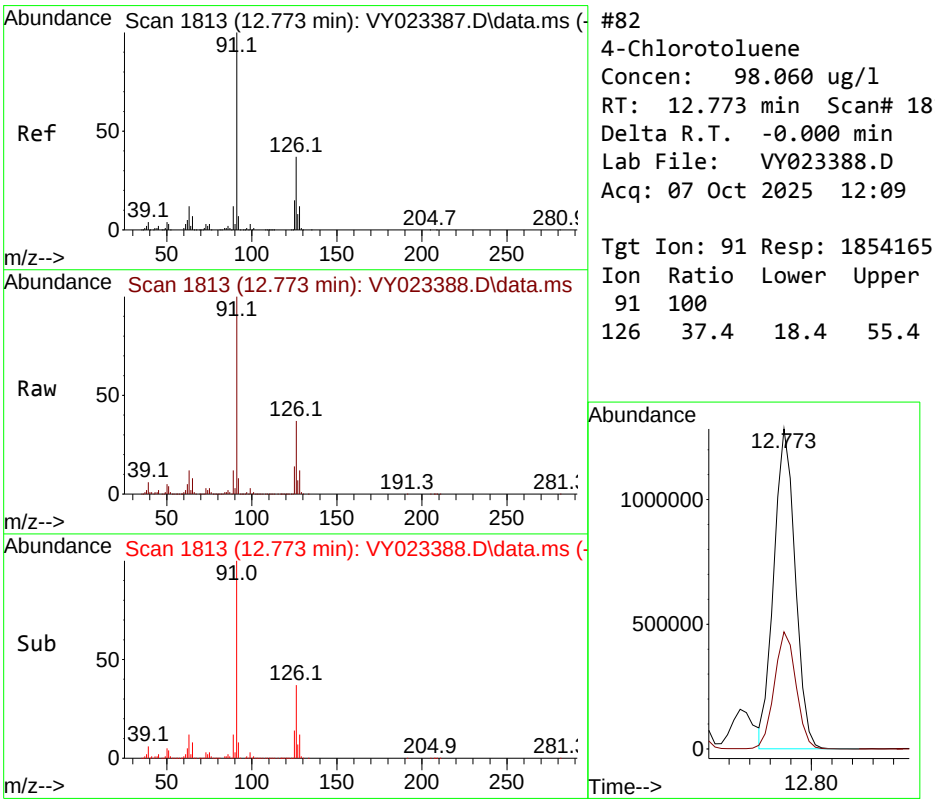
Tgt Ion: 75 Resp: 14830

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

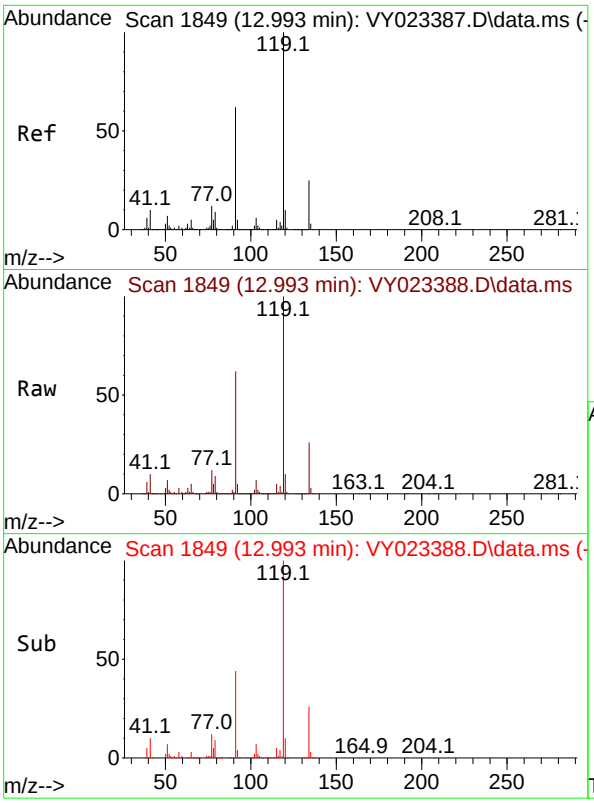
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

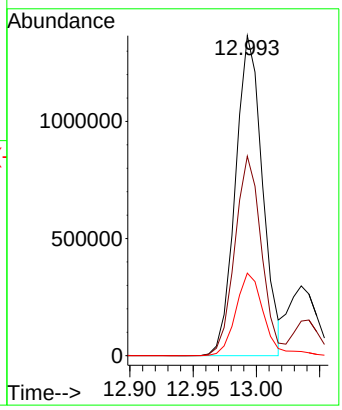
Ion	Ratio	Lower	Upper
91	100		
126	37.4	18.4	55.4



#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

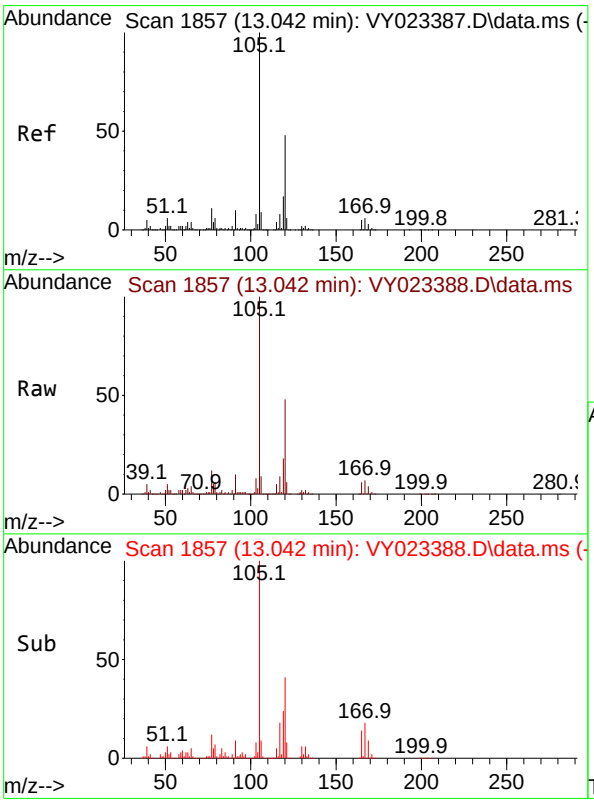
Ion	Ratio	Lower	Upper
119	100		
91	61.9	29.9	89.8
134	26.9	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

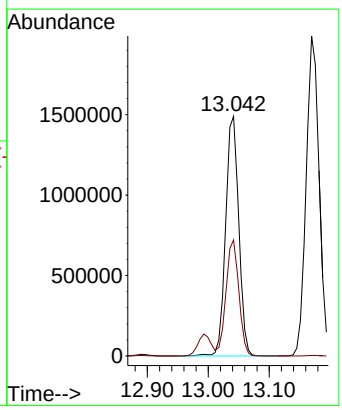
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

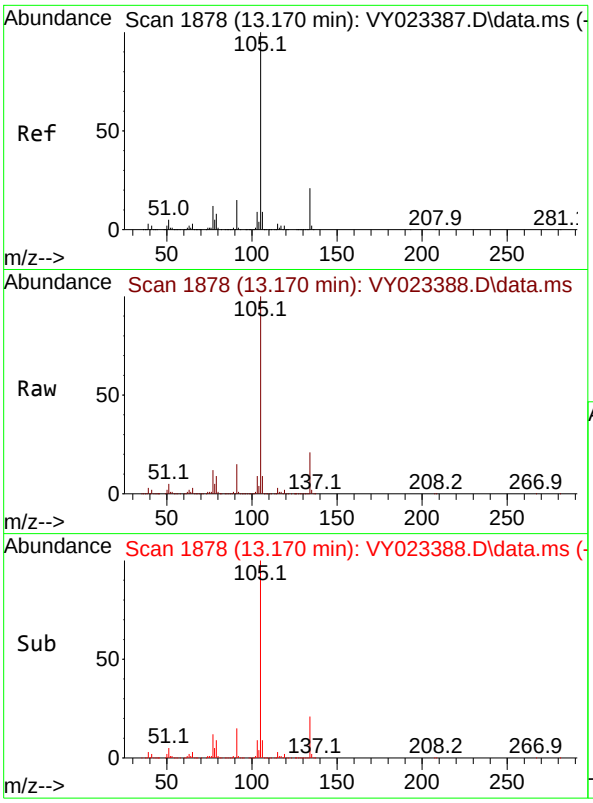


#84
1,2,4-Trimethylbenzene
Concen: 103.853 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:105 Resp: 2227197

Ion	Ratio	Lower	Upper
105	100		
120	47.4	23.8	71.2

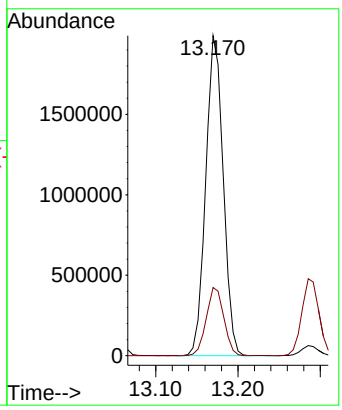




#85
sec-Butylbenzene
Concen: 102.530 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:105 Resp: 293294

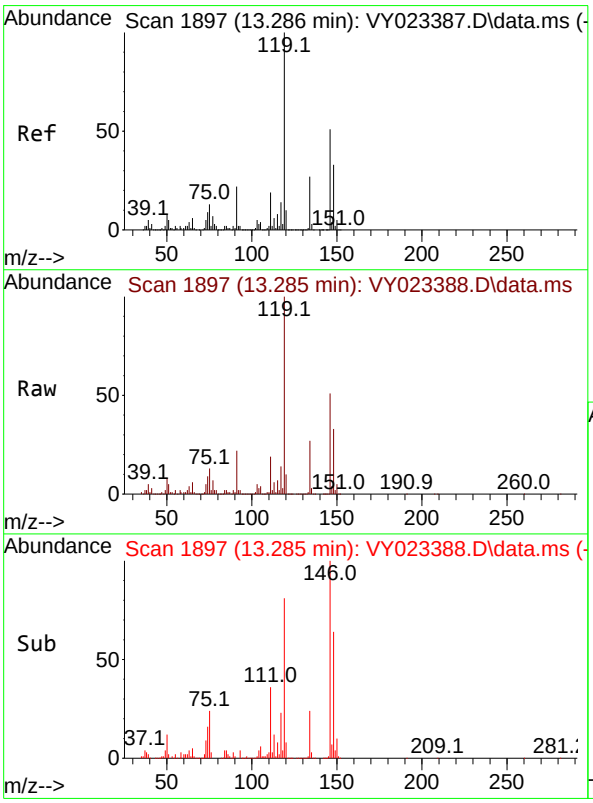
Ion	Ratio	Lower	Upper
105	100		
134	21.5	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

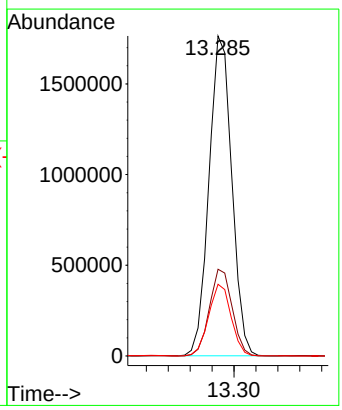
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

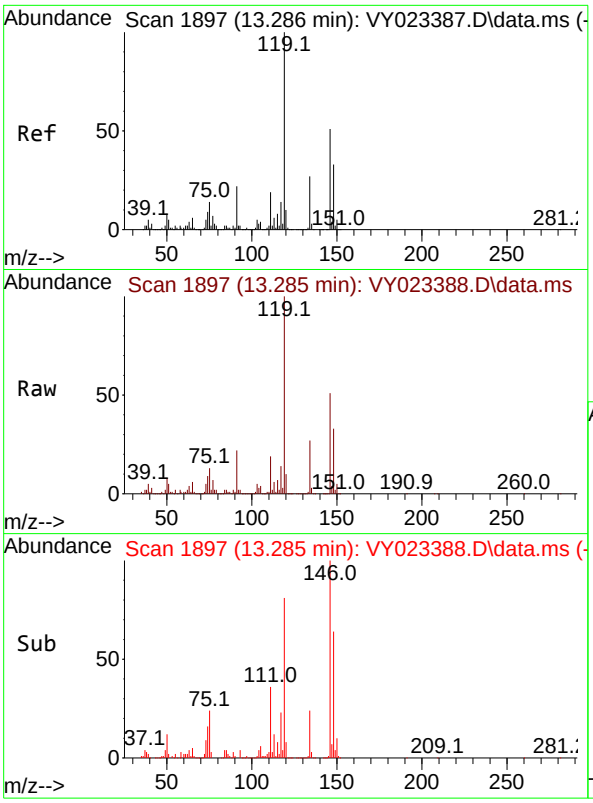


#86
p-Isopropyltoluene
Concen: 105.408 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

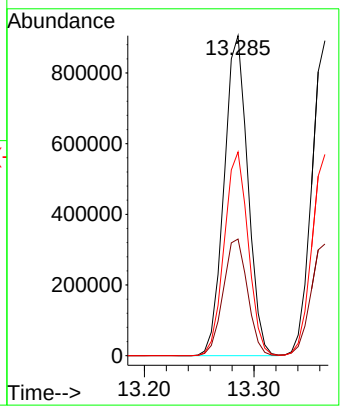




#87
1,3-Dichlorobenzene
Concen: 100.735 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion:146 Resp: 136171

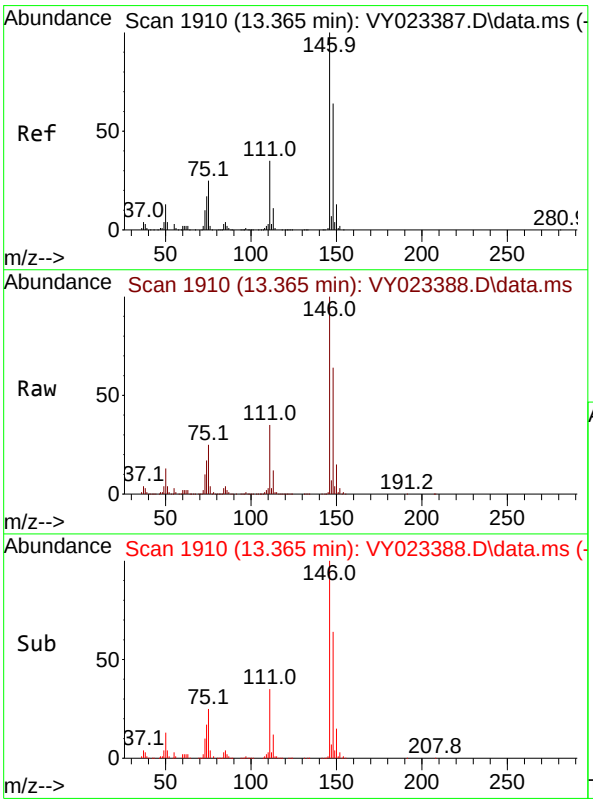
Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.7	56.1
148	64.1	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

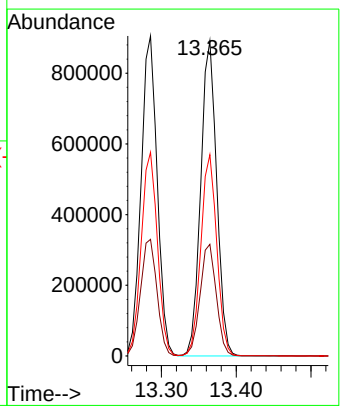
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

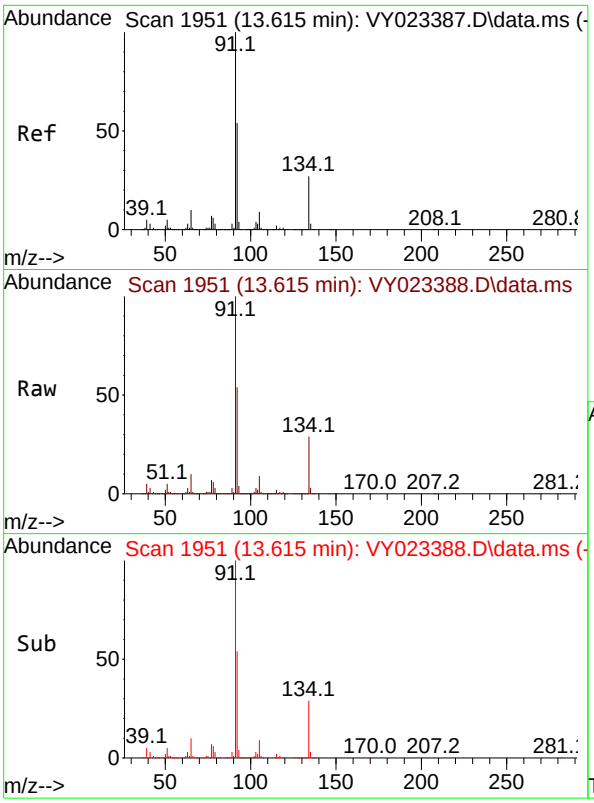


#88
1,4-Dichlorobenzene
Concen: 98.734 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

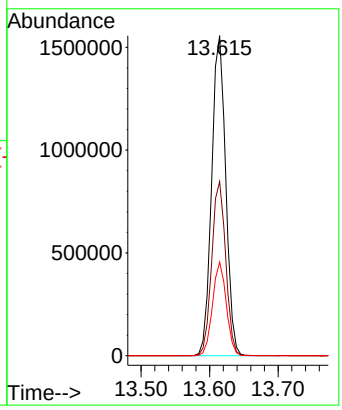




#89
n-Butylbenzene
Concen: 104.174 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

Tgt Ion: 91 Resp: 222374

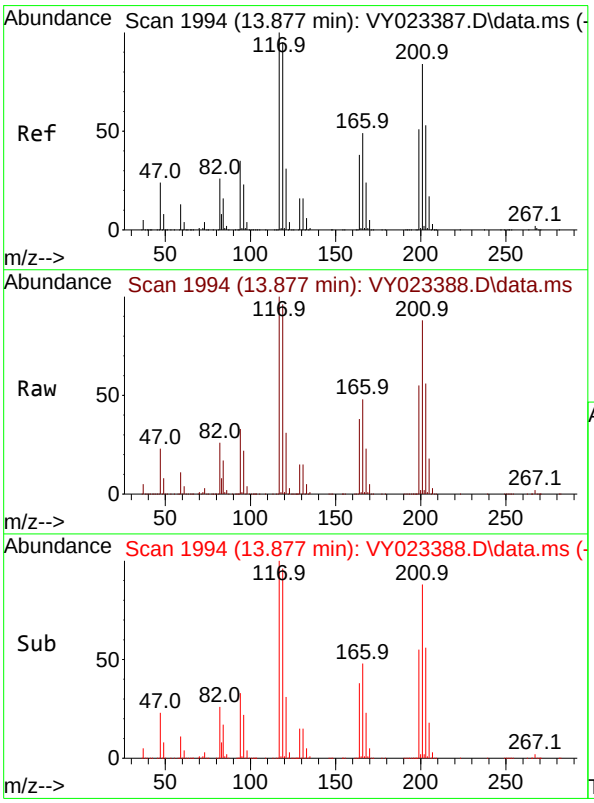
Ion	Ratio	Lower	Upper
91	100		
92	54.2	27.0	80.8
134	28.6	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

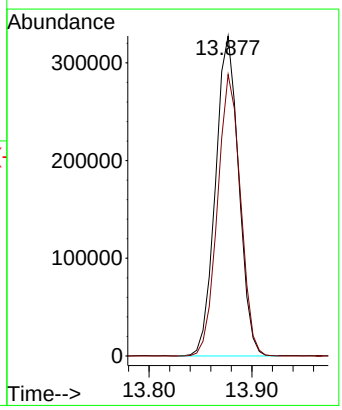
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

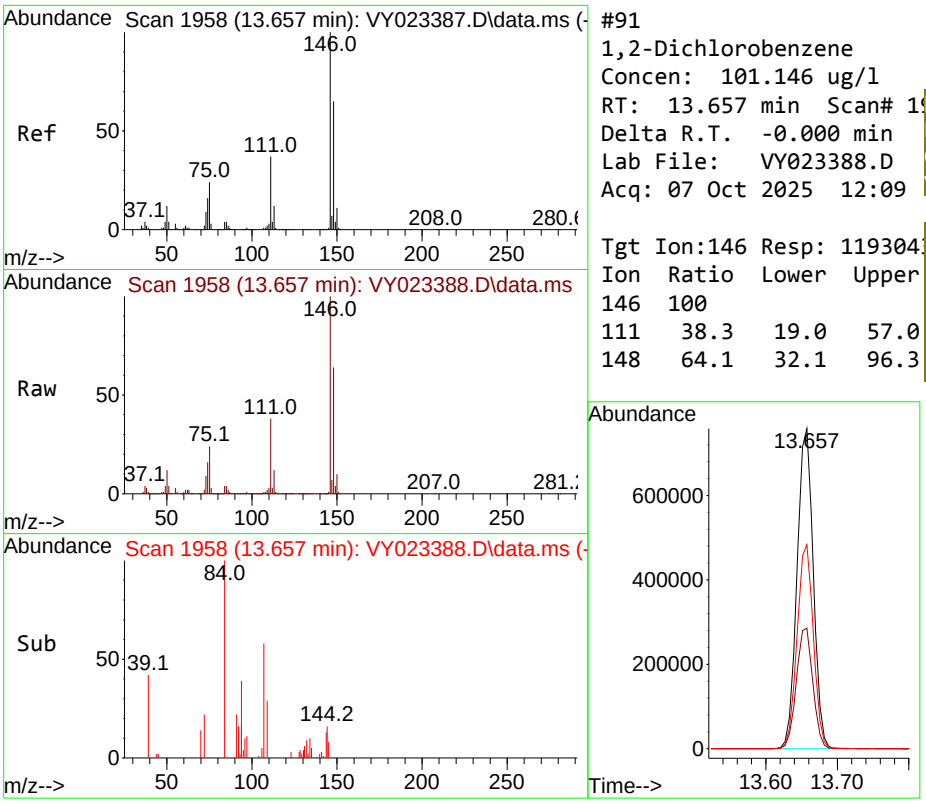


#90
Hexachloroethane
Concen: 98.069 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023388.D
Acq: 07 Oct 2025 12:09

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

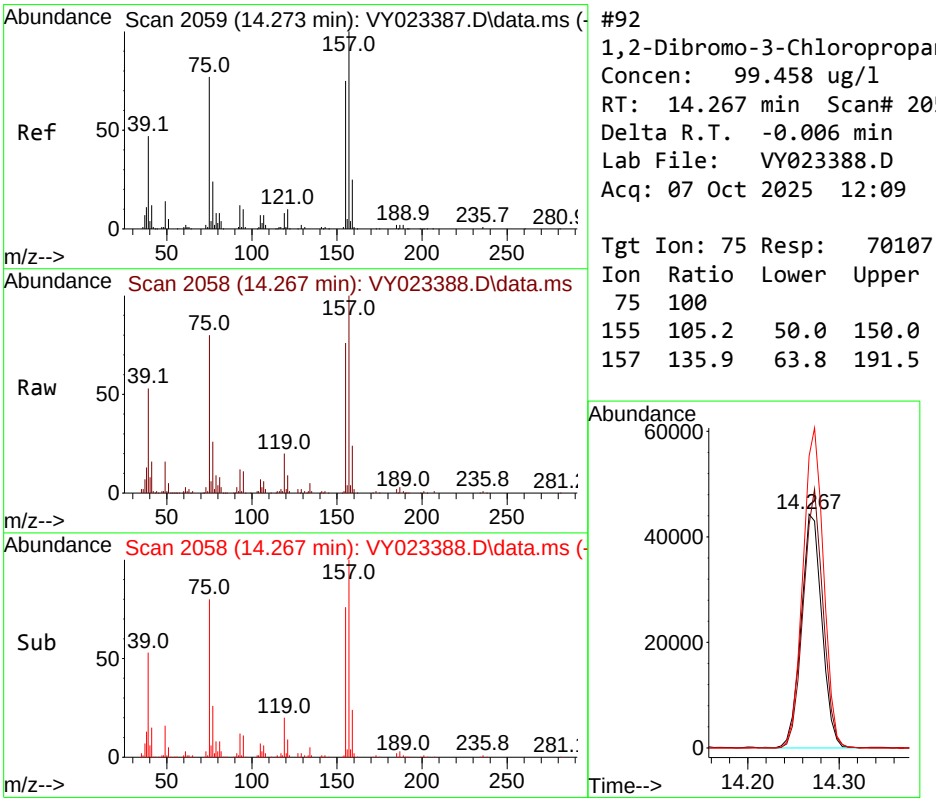
Tgt Ion:146 Resp: 119304

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

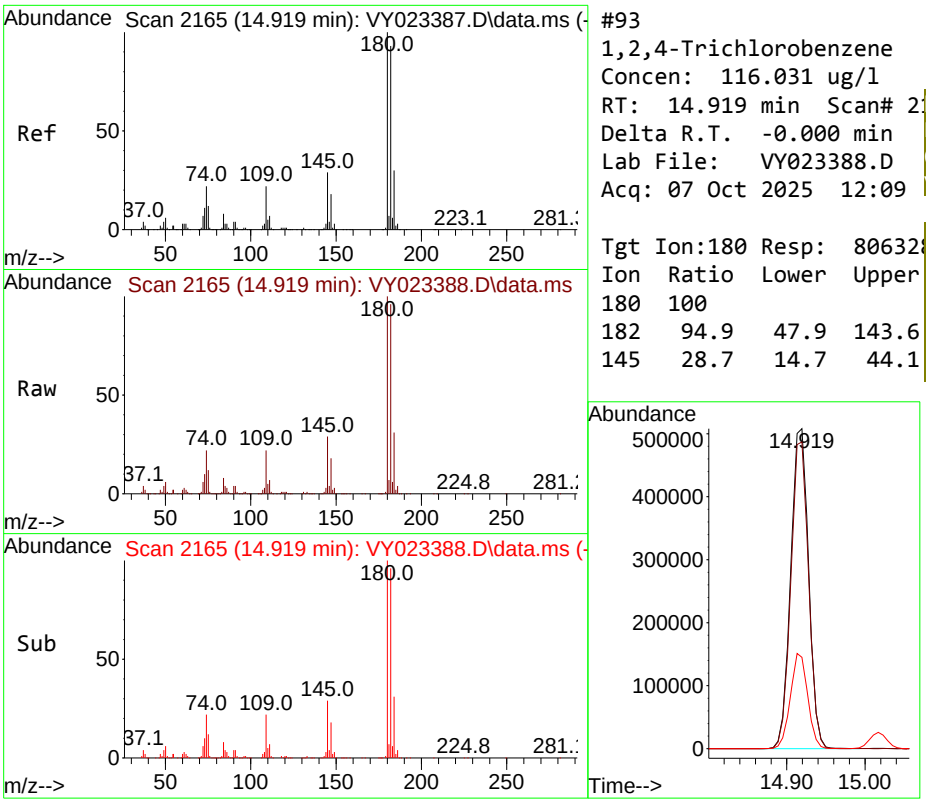
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

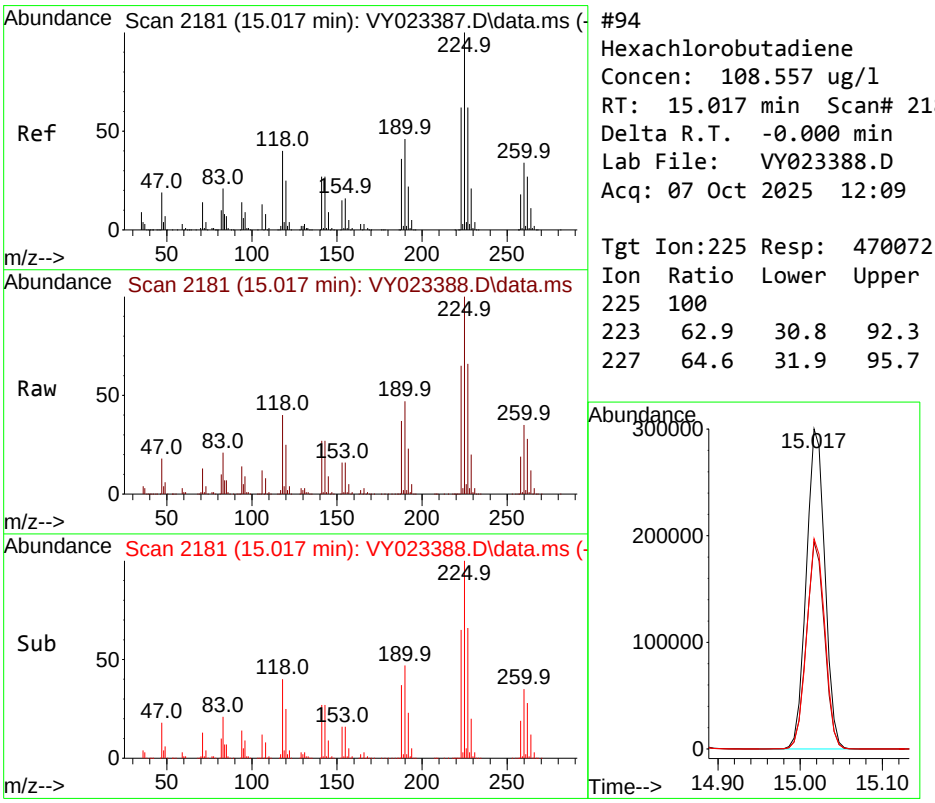
Tgt Ion:180 Resp: 80632

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

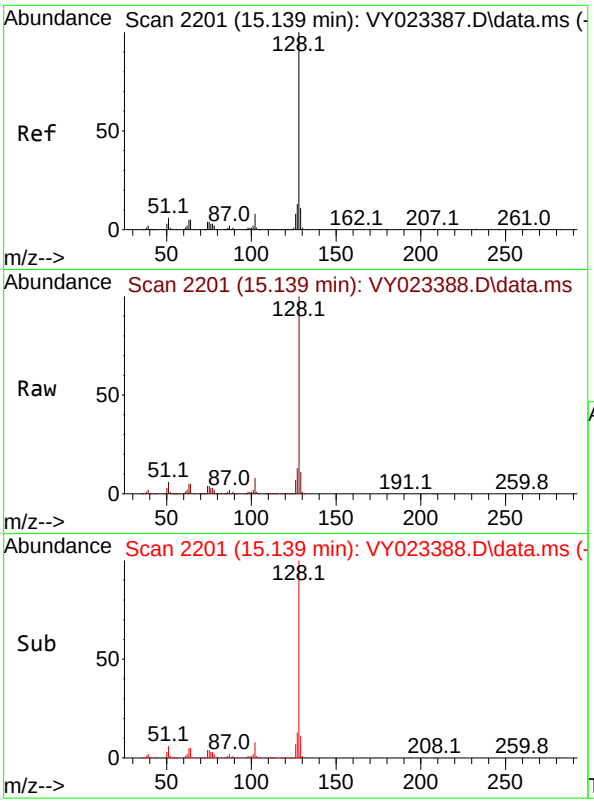
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

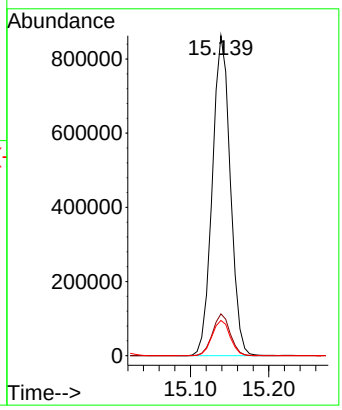
Ion	Ratio	Lower	Upper
225	100		
223	62.9	30.8	92.3
227	64.6	31.9	95.7



#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

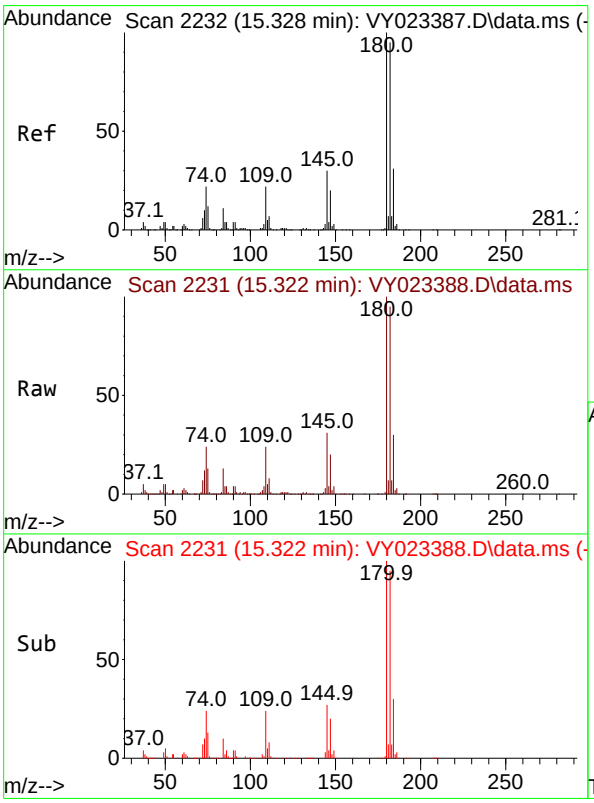
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.4	15.6
129	11.1	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

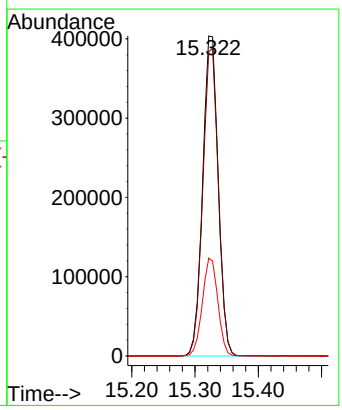
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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



Quantitation Report (QT Reviewed)

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)
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

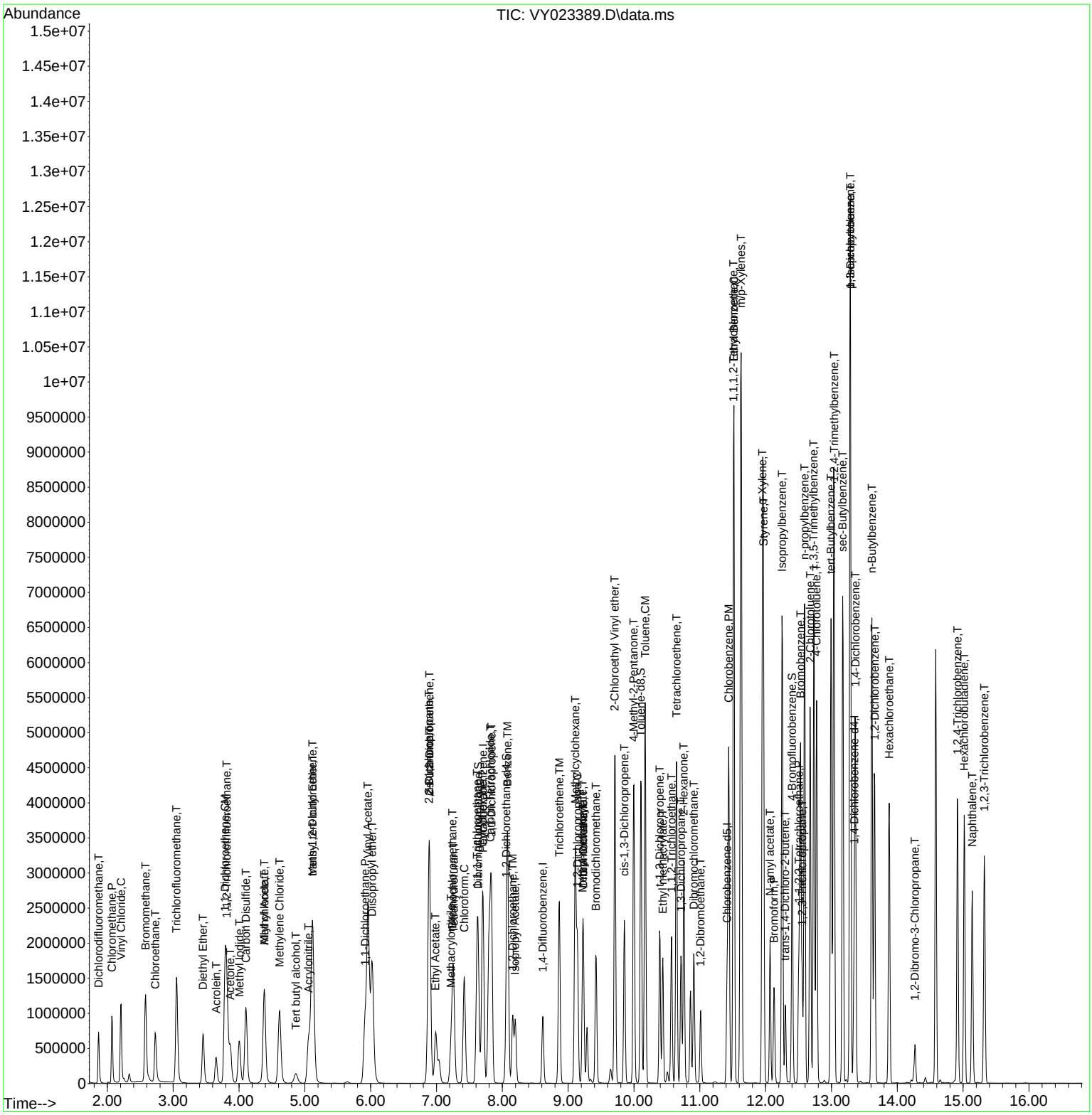
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023389.D
Acq On : 07 Oct 2025 12:32
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

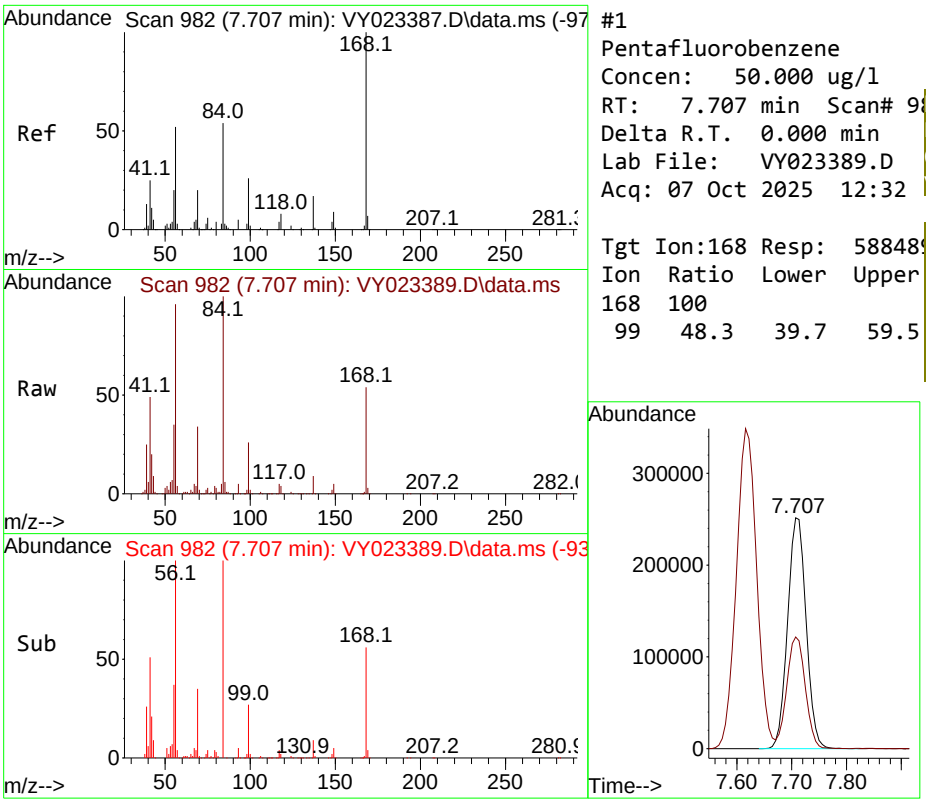
Quant Time: Oct 08 04:45:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 04:39:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025





#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

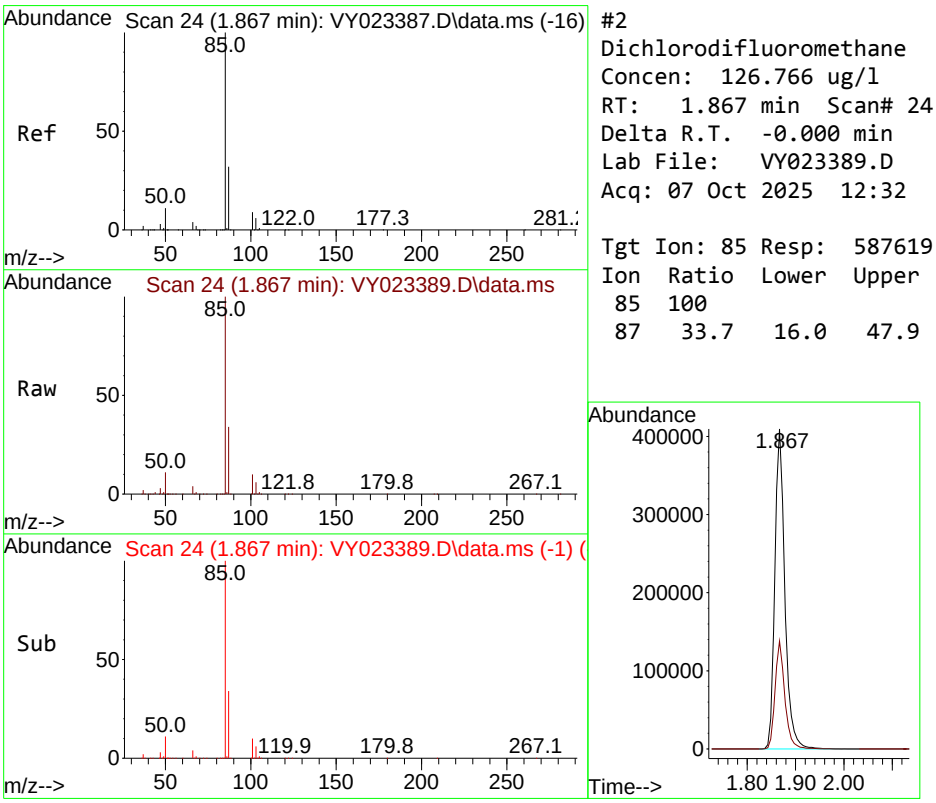
Tgt Ion:168 Resp: 58848

Ion	Ratio	Lower	Upper
168	100		
99	48.3	39.7	59.5

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

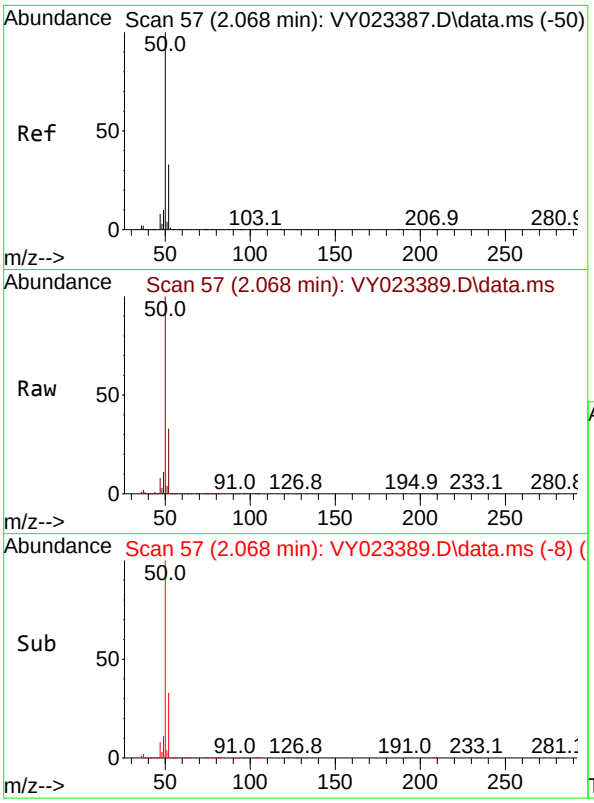
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

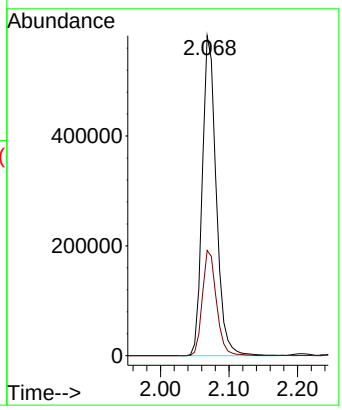
Ion	Ratio	Lower	Upper
85	100		
87	33.7	16.0	47.9



#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

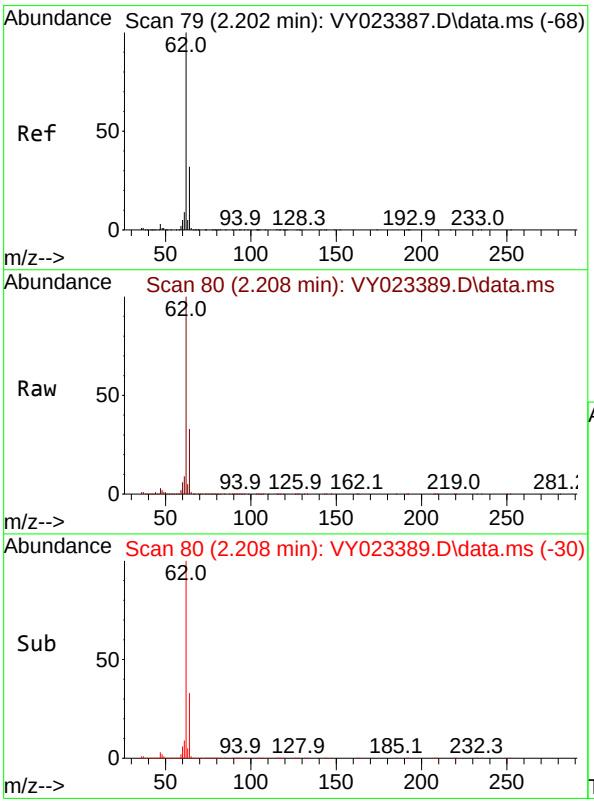
Ion	Ratio	Lower	Upper
50	100		
52	32.9	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

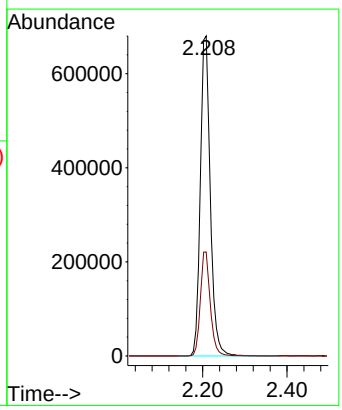
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

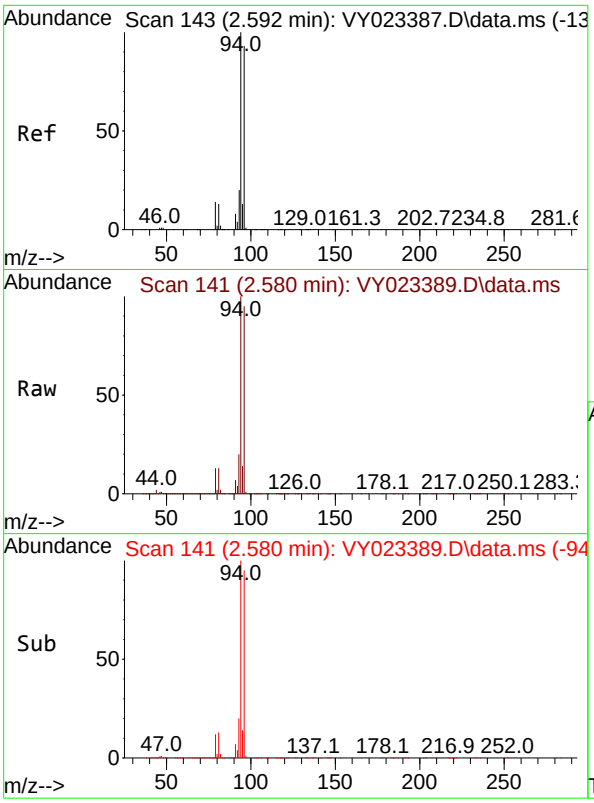


#4
Vinyl Chloride
Concen: 134.387 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

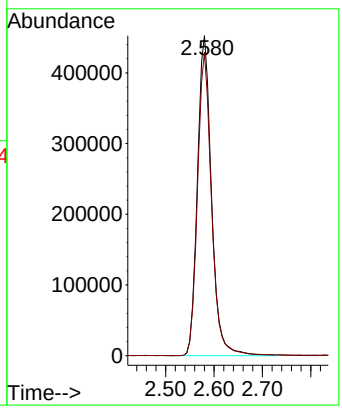
Tgt Ion: 94 Resp: 91538

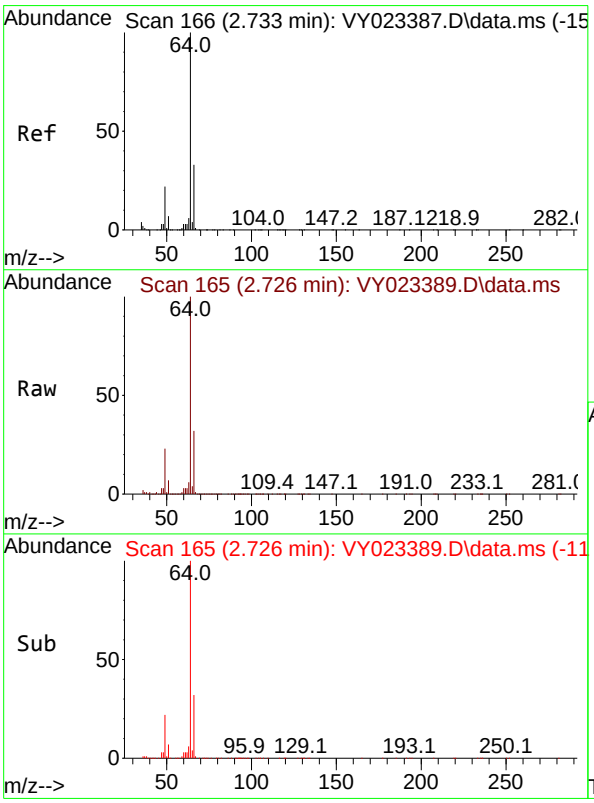
Ion	Ratio	Lower	Upper
94	100		
96	94.8	74.5	111.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

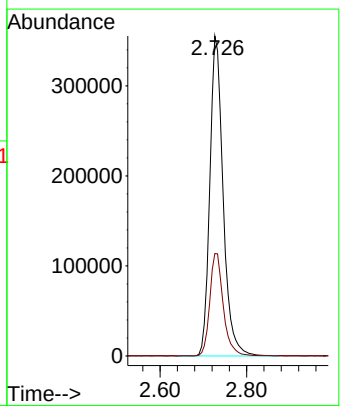


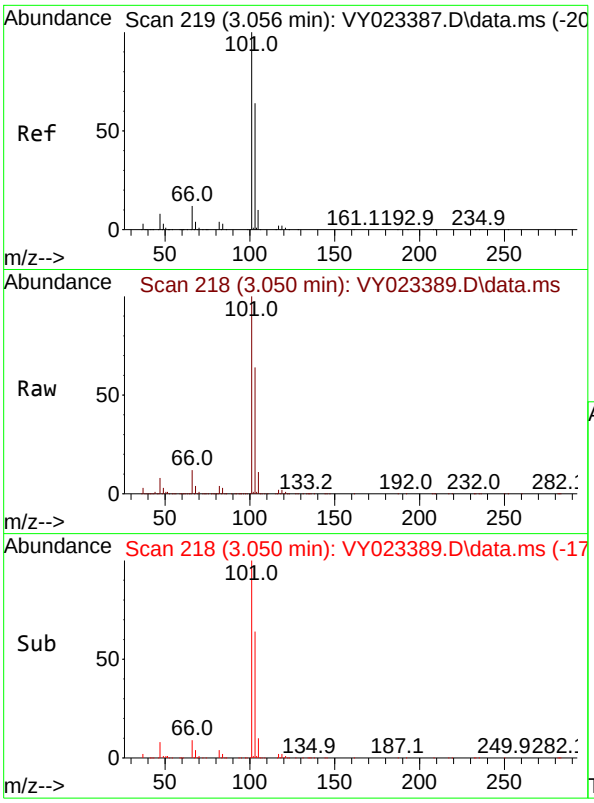


#6
Chloroethane
Concen: 133.994 ug/l
RT: 2.726 min Scan# 165
Delta R.T. -0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 64 Resp: 756912

Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.2	39.4

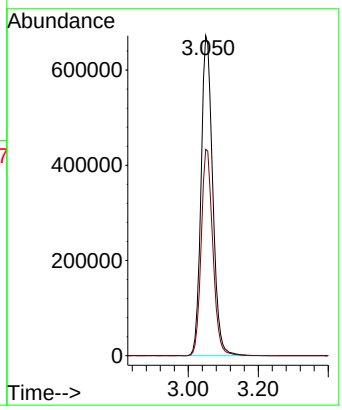




#7
Trichlorofluoromethane
Concen: 144.948 ug/l
RT: 3.050 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:101 Resp: 154916

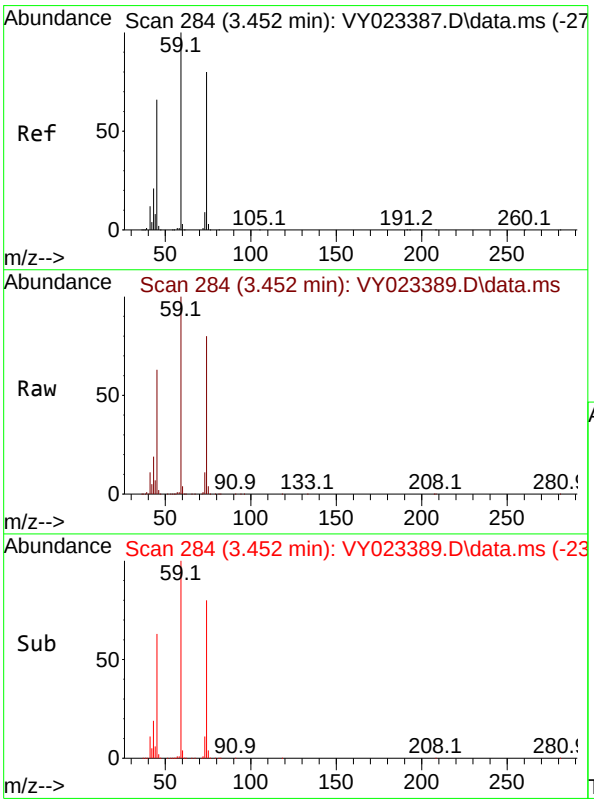
Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

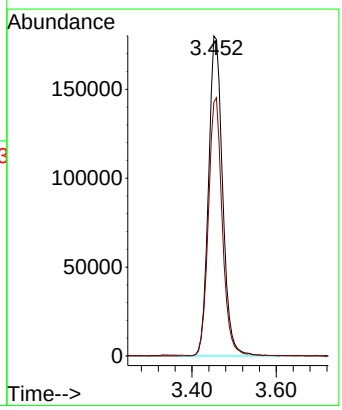
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

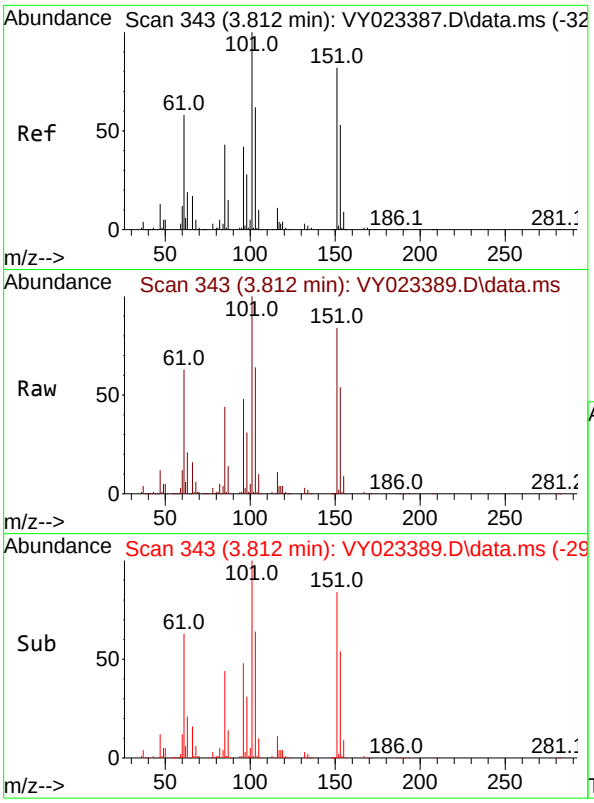


#8
Diethyl Ether
Concen: 149.747 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

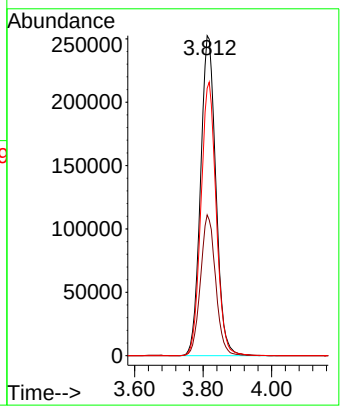
Tgt Ion:101 Resp: 78627

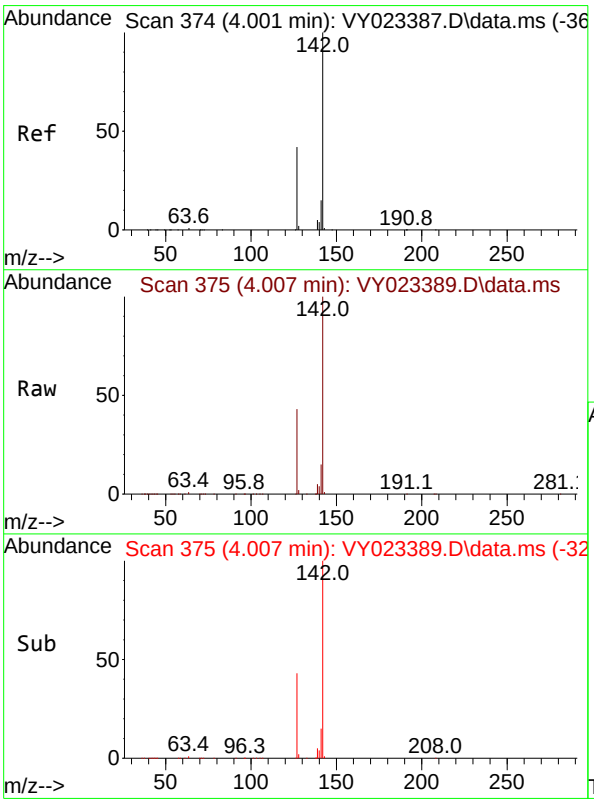
Ion	Ratio	Lower	Upper
101	100		
85	43.5	34.6	51.8
151	85.2	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

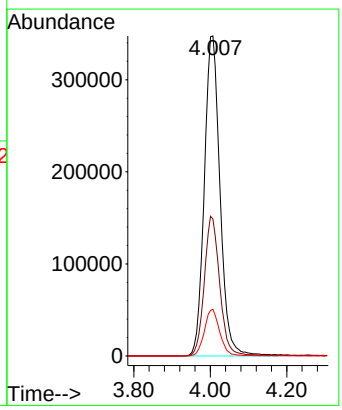


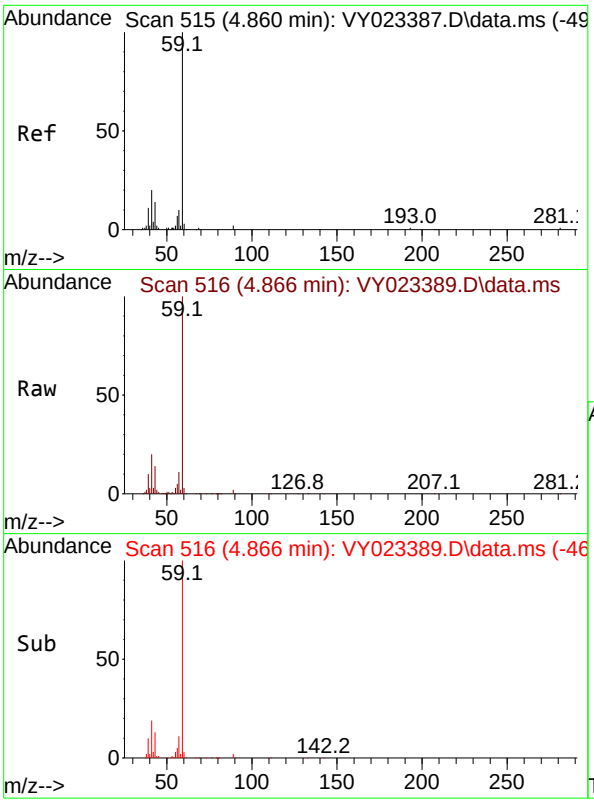


#10
Methyl Iodide
Concen: 150.409 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

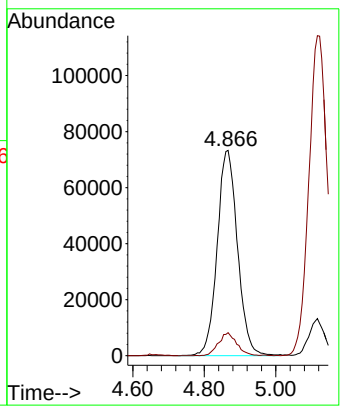




#11
Tert butyl alcohol
Concen: 963.279 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 59 Resp: 28887

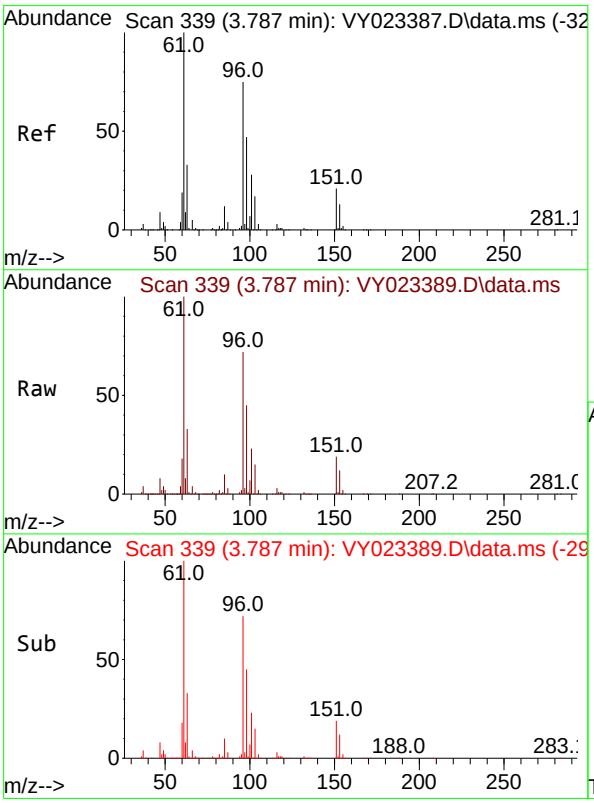
Ion	Ratio	Lower	Upper
59	100		
57	10.1	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

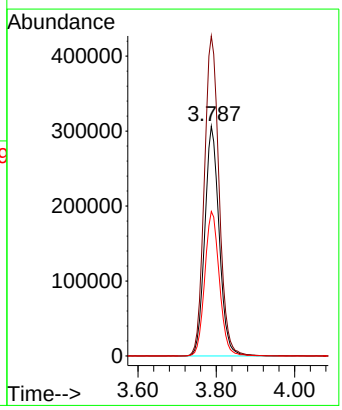
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

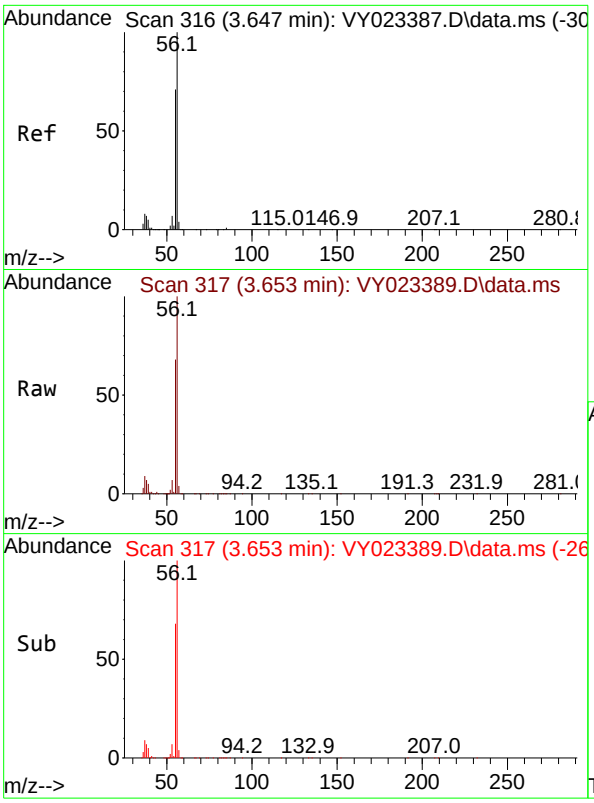


#12
1,1-Dichloroethene
Concen: 142.133 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

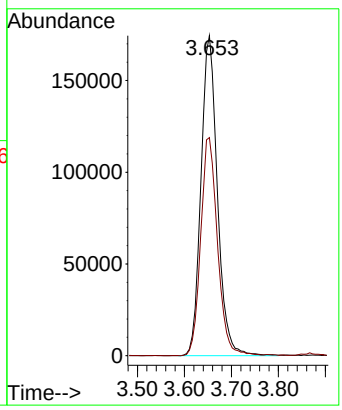




#13
Acrolein
Concen: 833.323 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 56 Resp: 42341

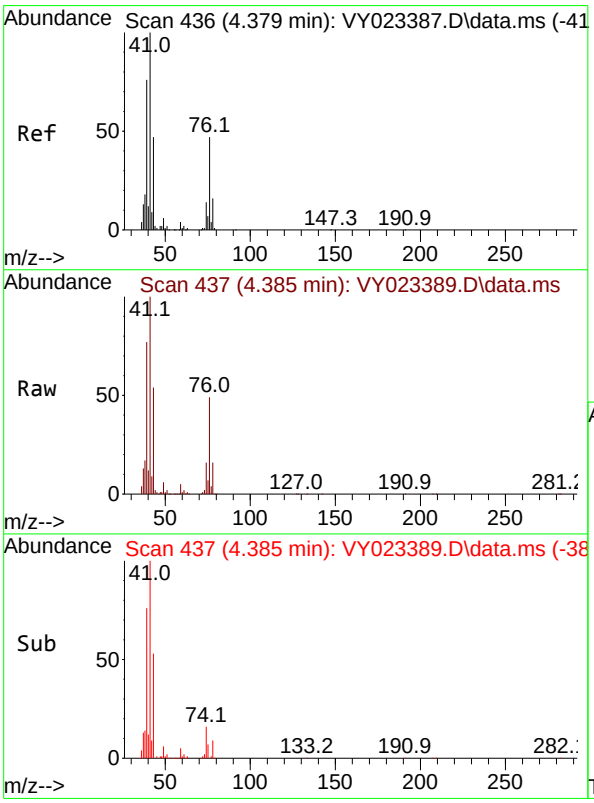
Ion	Ratio	Lower	Upper
56	100		
55	69.7	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

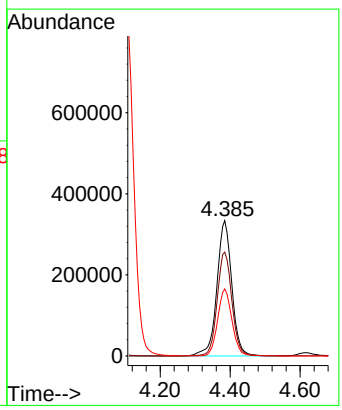
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

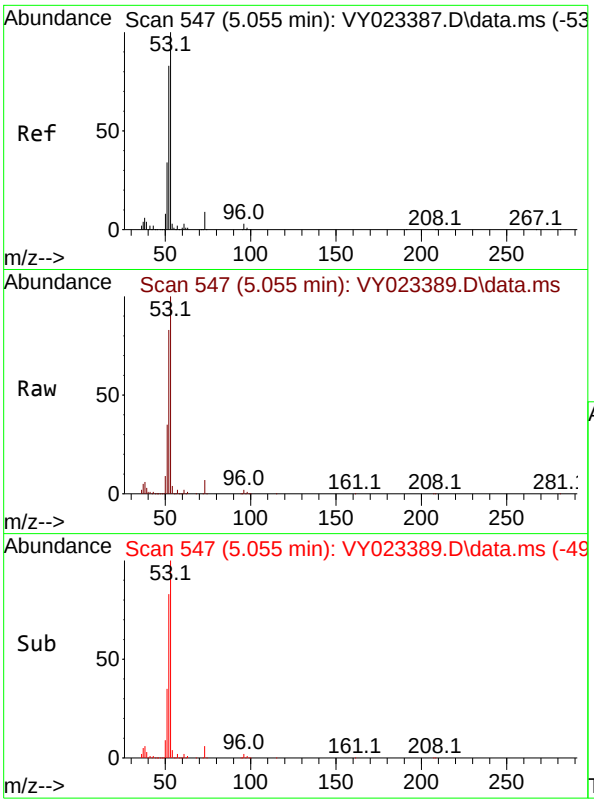


#14
Allyl chloride
Concen: 143.628 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

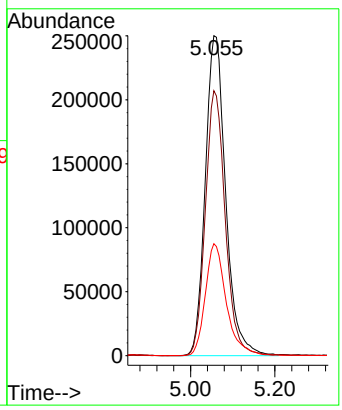




#15
Acrylonitrile
Concen: 768.735 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 53 Resp: 84185

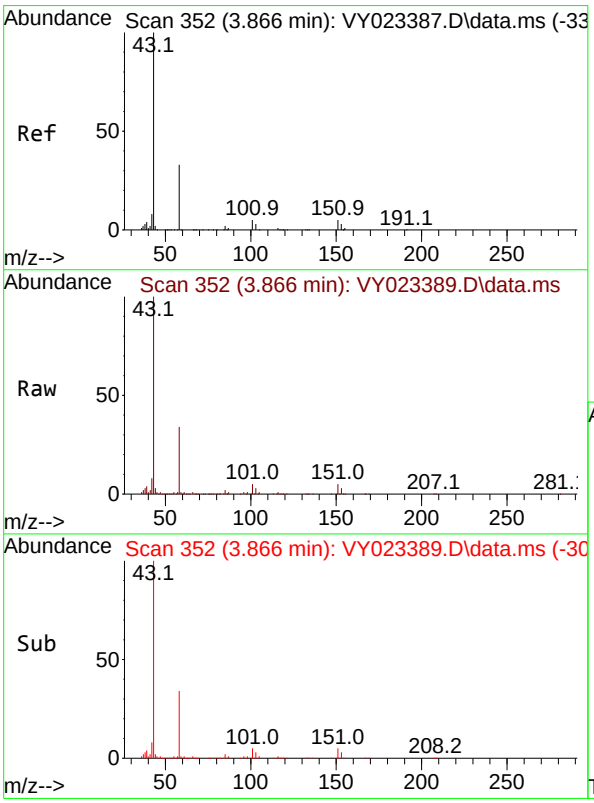
Ion	Ratio	Lower	Upper
53	100		
52	80.9	64.6	97.0
51	36.0	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

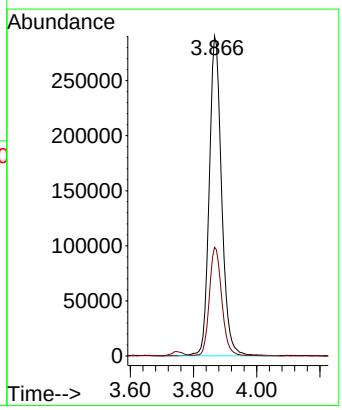
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

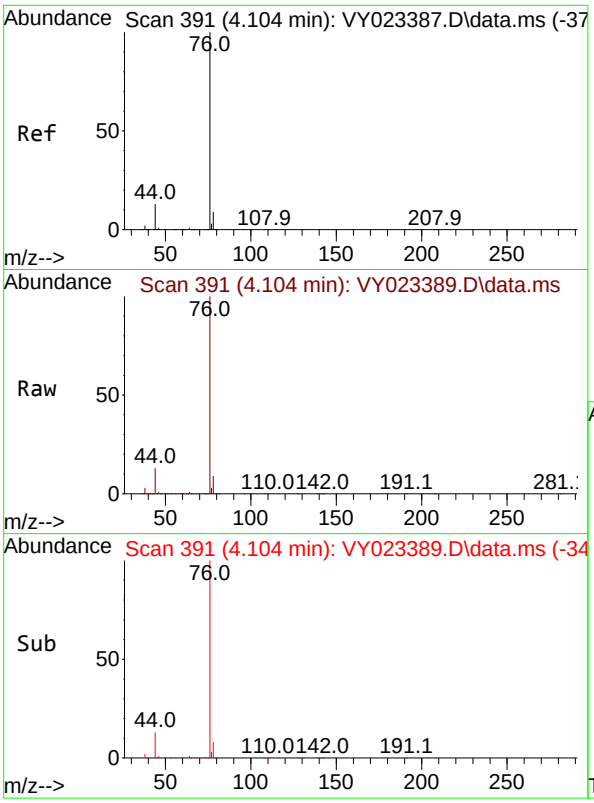


#16
Acetone
Concen: 689.040 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 789668

Ion	Ratio	Lower	Upper
43	100		
58	34.0	27.7	41.5

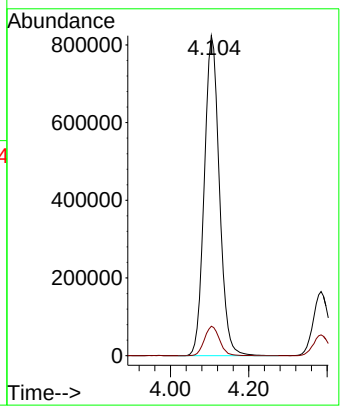




#17
Carbon Disulfide
Concen: 128.252 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 76 Resp: 219933

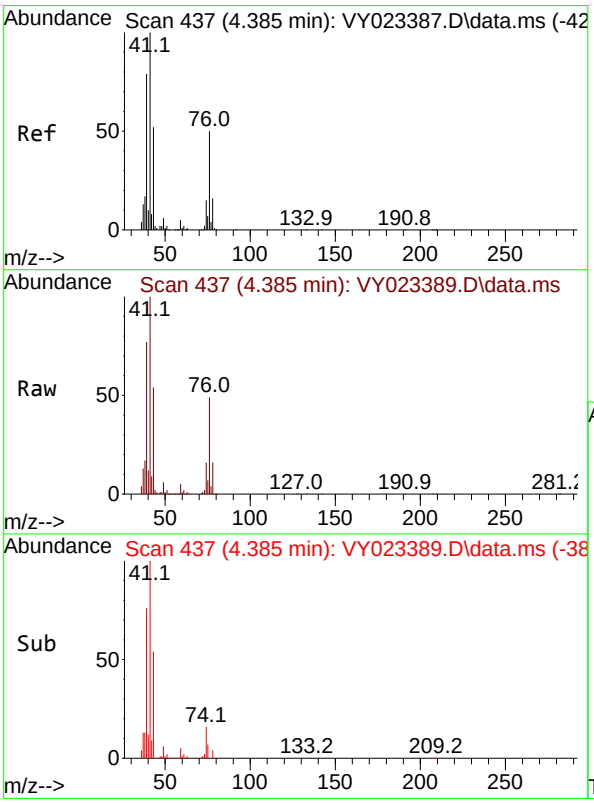
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

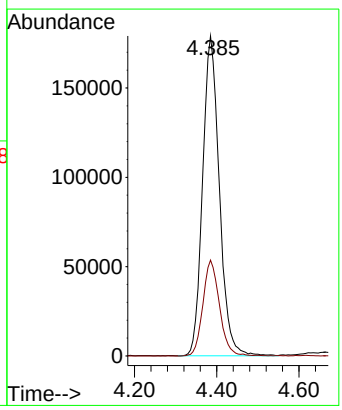
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

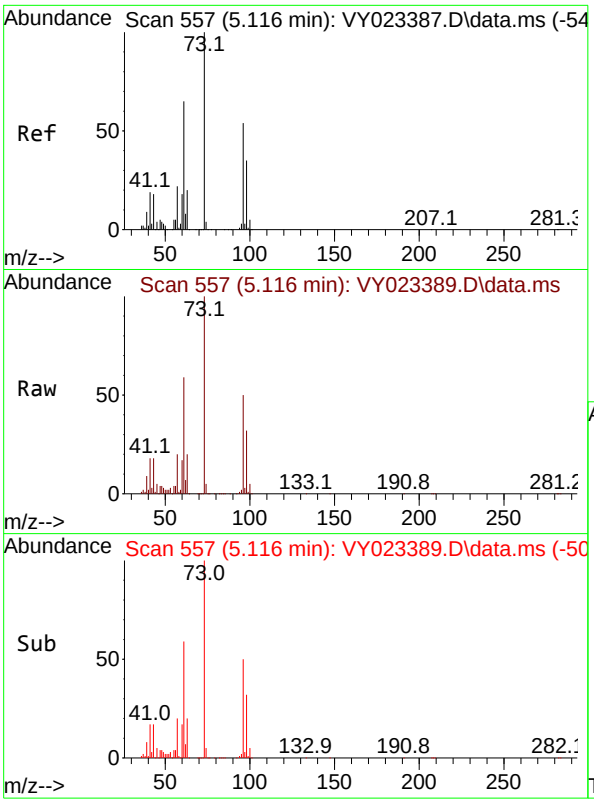


#18
Methyl Acetate
Concen: 173.497 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 505344

Ion	Ratio	Lower	Upper
43	100		
74	29.7	24.2	36.4

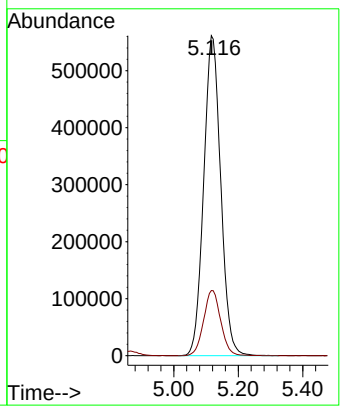




#19
Methyl tert-butyl Ether
Concen: 159.802 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 73 Resp: 205653

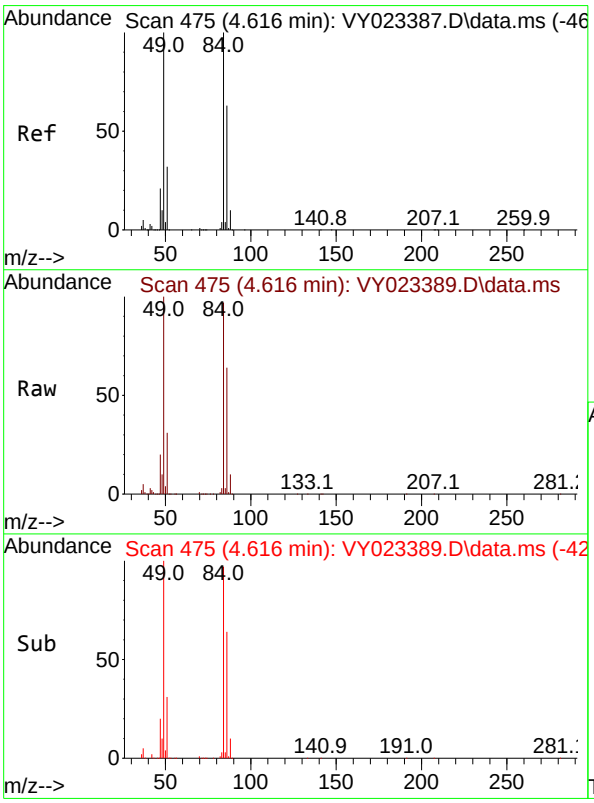
Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

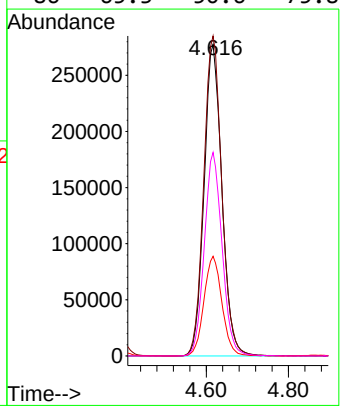
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

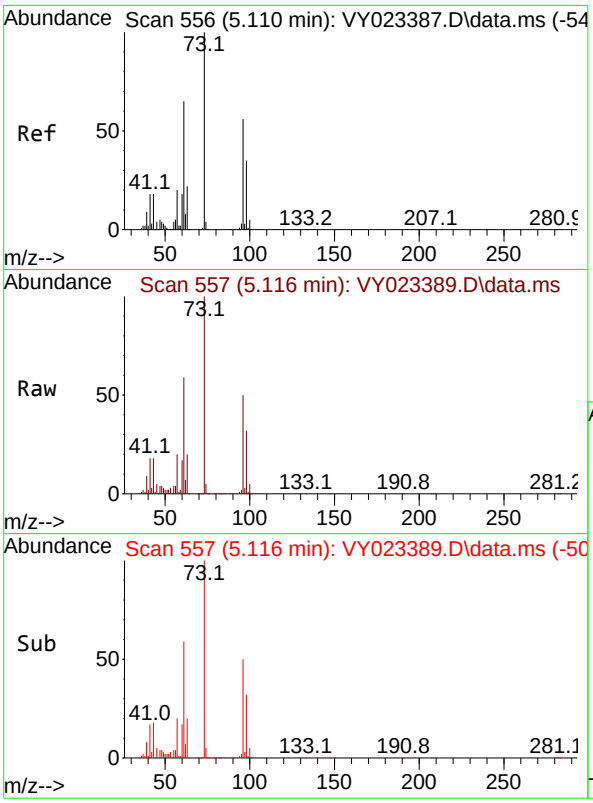


#20
Methylene Chloride
Concen: 134.365 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

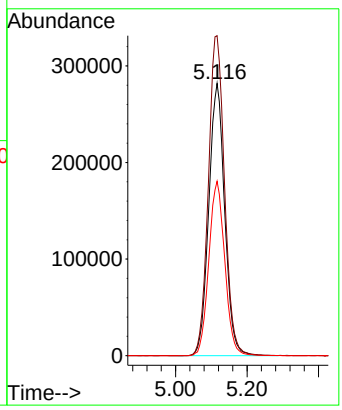




#21
trans-1,2-Dichloroethene
Concen: 142.549 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 96 Resp: 87138

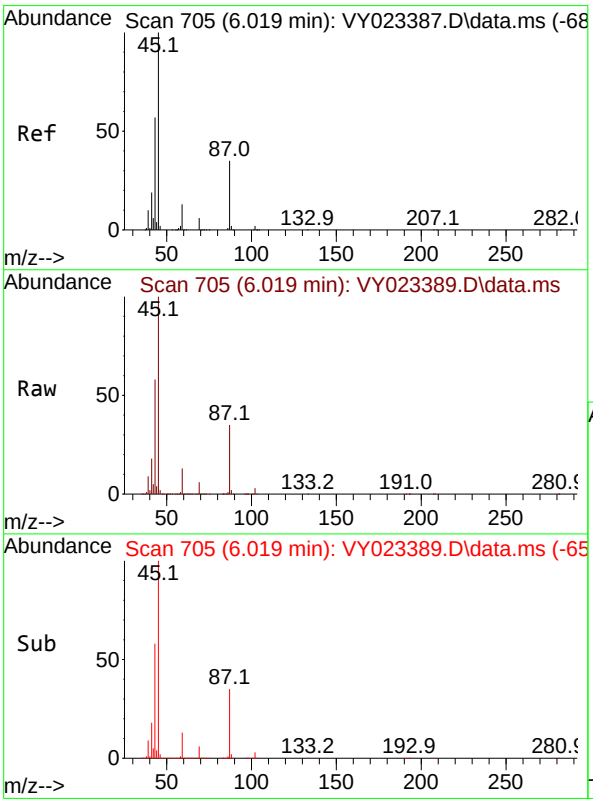
Ion	Ratio	Lower	Upper
96	100		
61	117.5	92.7	139.1
98	64.1	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

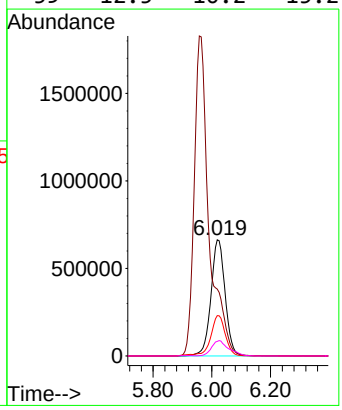
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

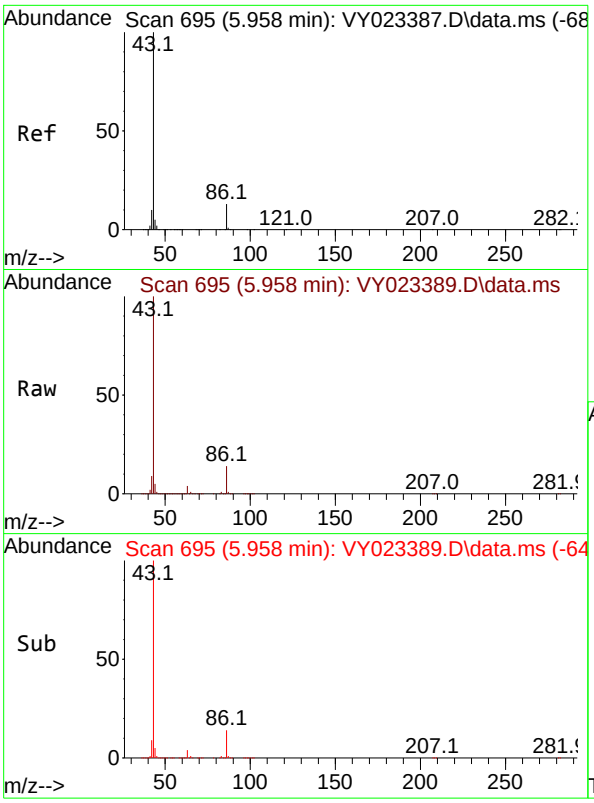


#22
Diisopropyl ether
Concen: 145.375 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

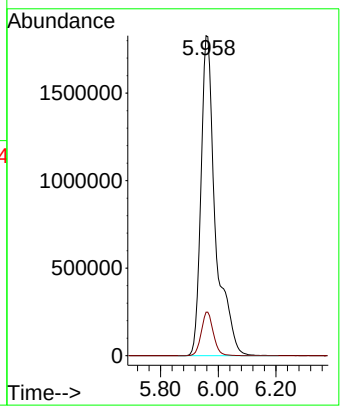
Tgt Ion: 43 Resp: 637704

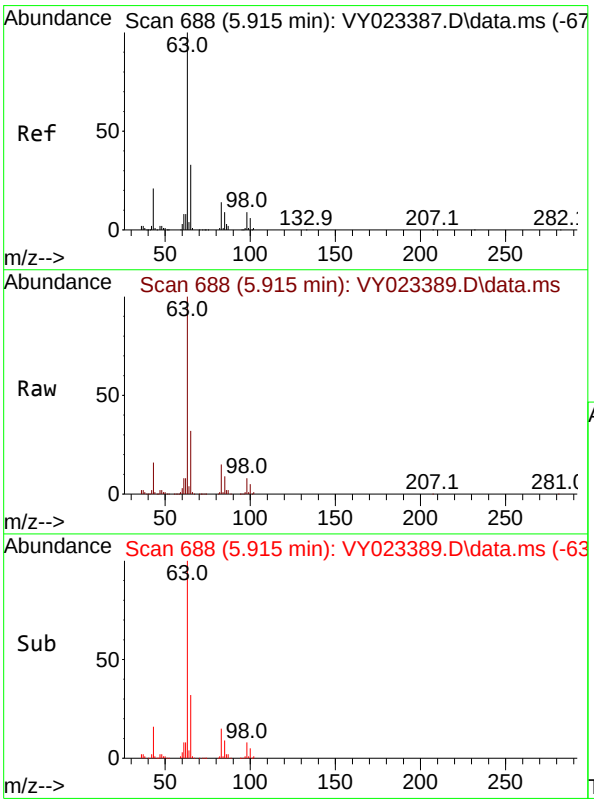
Ion	Ratio	Lower	Upper
43	100		
86	13.6	10.6	15.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

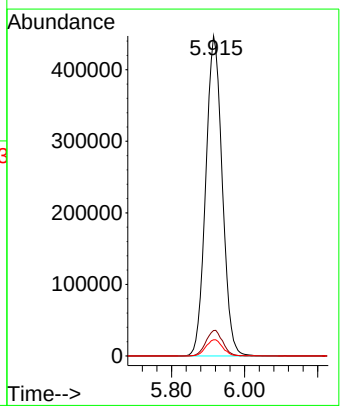


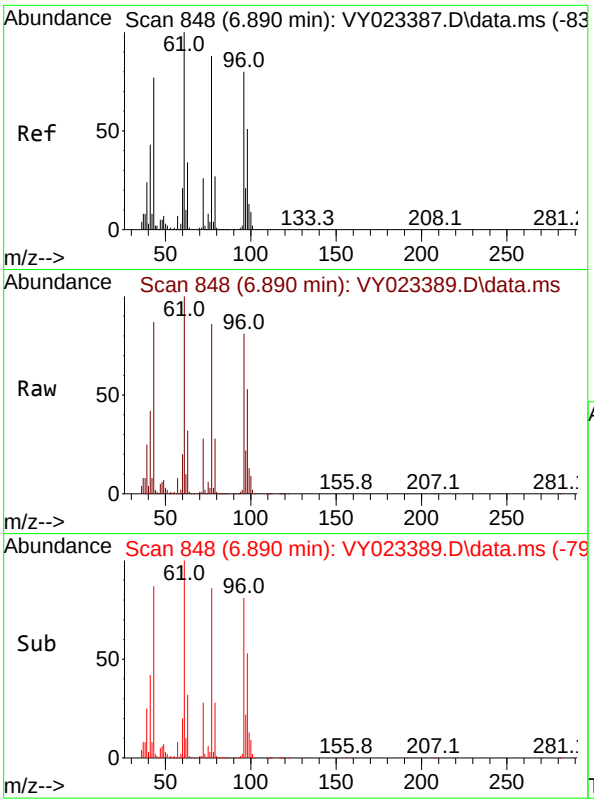


#24
1,1-Dichloroethane
Concen: 139.024 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

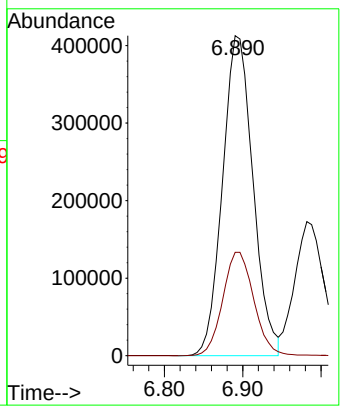




#25
2-Butanone
Concen: 788.091 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 111634

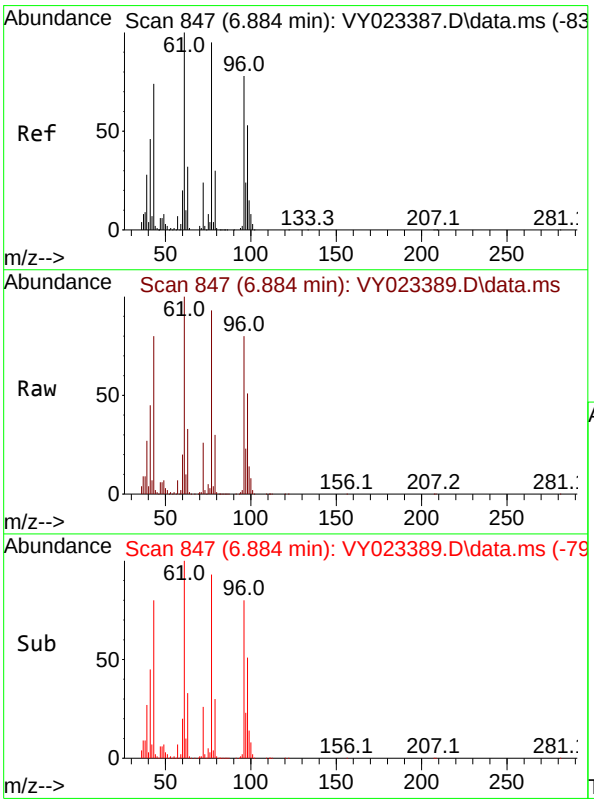
Ion	Ratio	Lower	Upper
43	100		
72	32.3	27.4	41.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

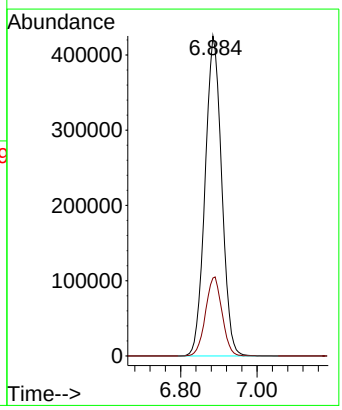
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

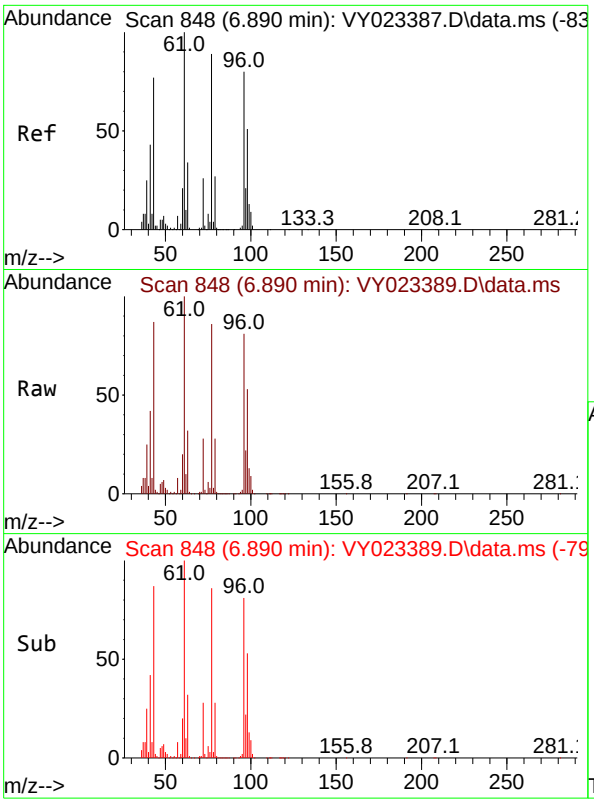


#26
2,2-Dichloropropane
Concen: 143.391 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 77 Resp: 1281633

Ion	Ratio	Lower	Upper
77	100		
97	24.6	12.1	36.3

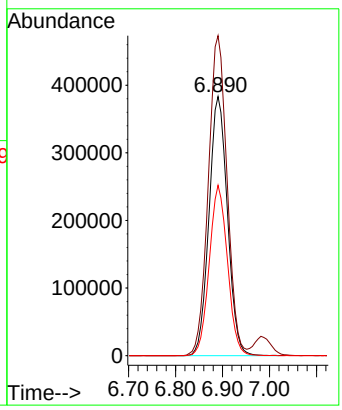




#27
cis-1,2-Dichloroethene
Concen: 150.505 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 96 Resp: 104357

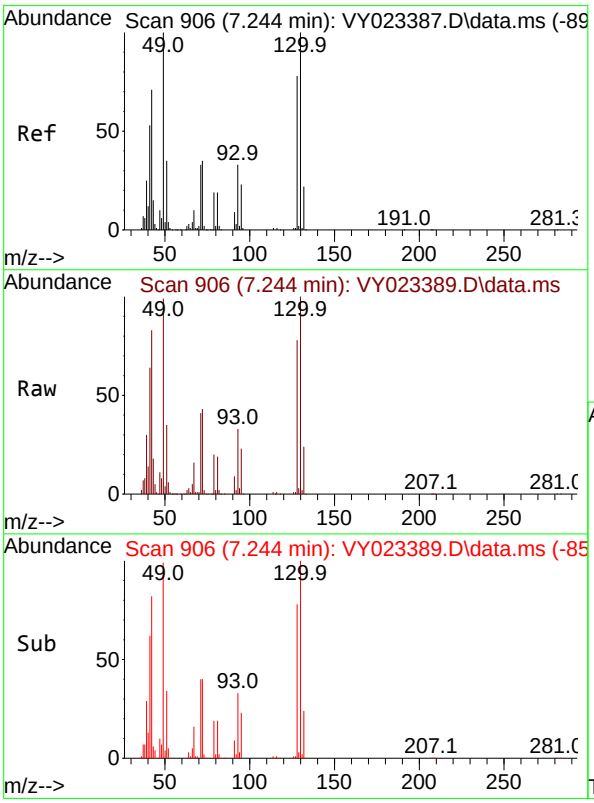
Ion	Ratio	Lower	Upper
96	100		
61	125.7	0.0	258.2
98	65.0	0.0	132.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

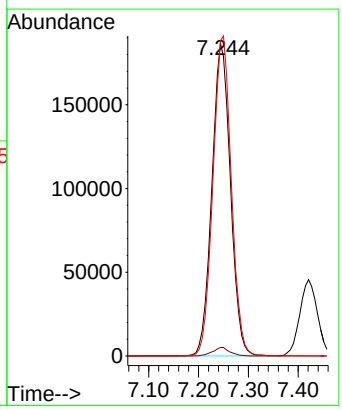
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

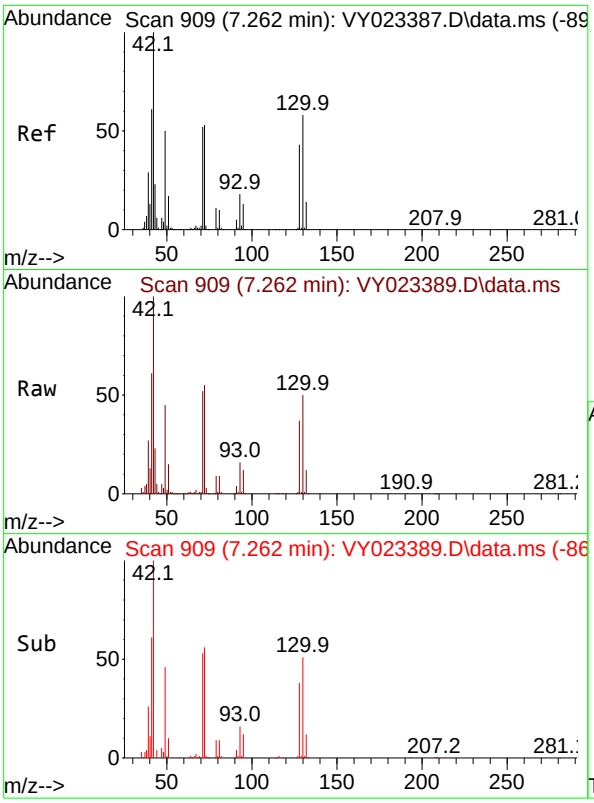


#28
Bromochloromethane
Concen: 123.567 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

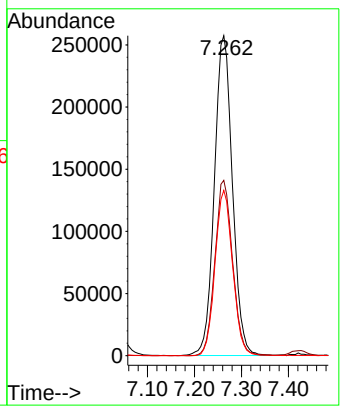




#29
Tetrahydrofuran
Concen: 817.972 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 42 Resp: 68771(

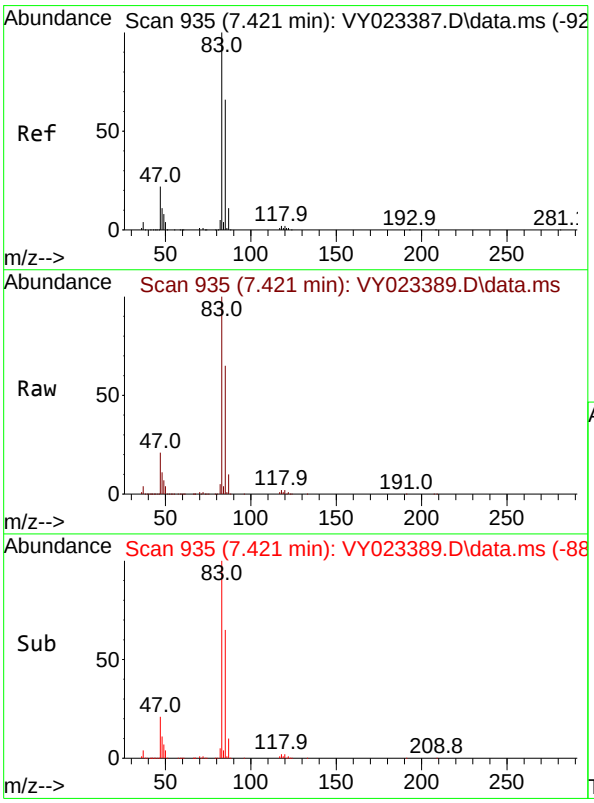
Ion	Ratio	Lower	Upper
42	100		
72	53.9	43.0	64.6
71	50.4	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

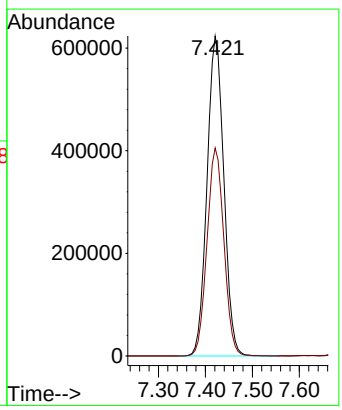
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

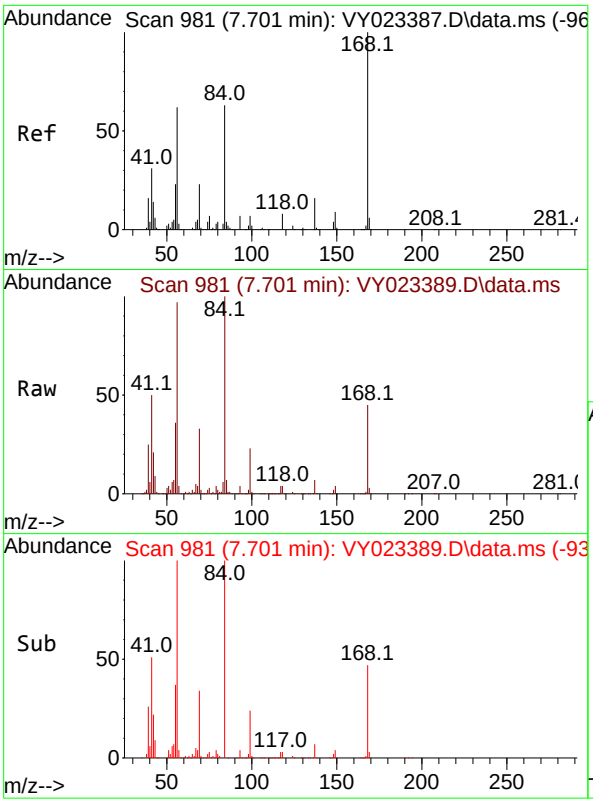


#30
Chloroform
Concen: 142.221 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 83 Resp: 1542715

Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.5	78.7

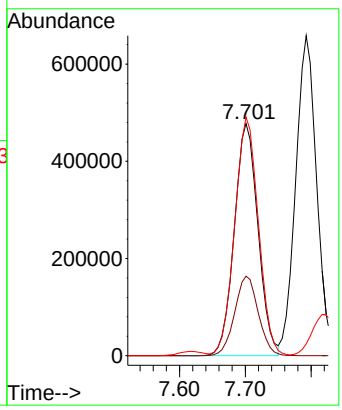




#31
Cyclohexane
Concen: 134.268 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 56 Resp: 119277

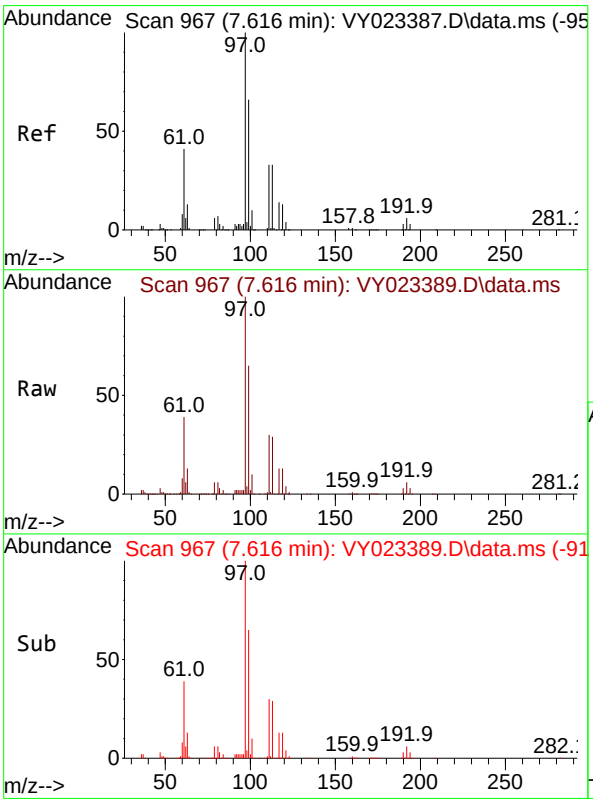
Ion	Ratio	Lower	Upper
56	100		
69	34.2	30.0	45.0
84	101.7	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

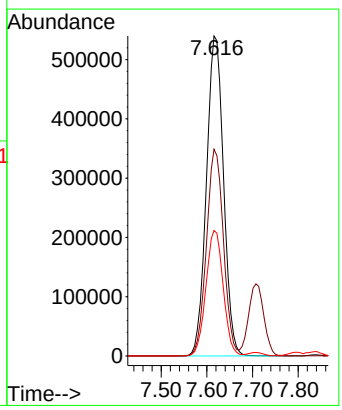
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

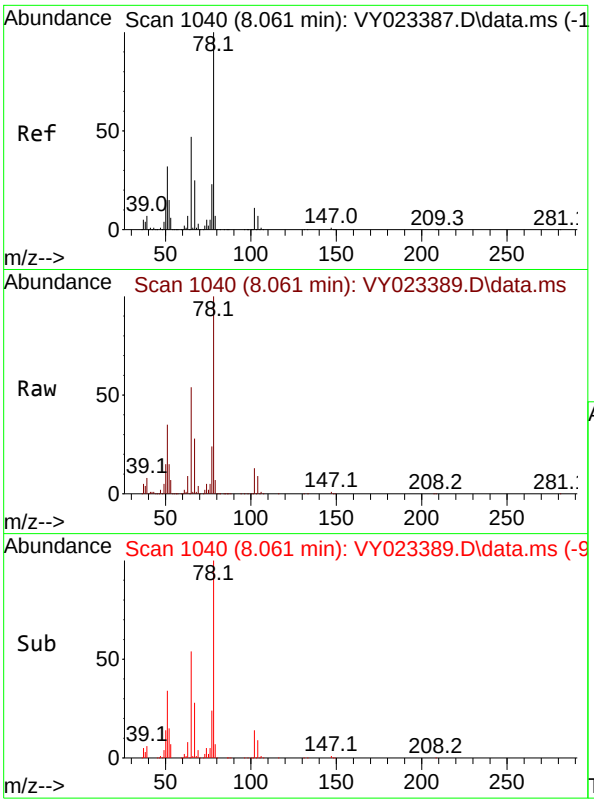


#32
1,1,1-Trichloroethane
Concen: 144.305 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

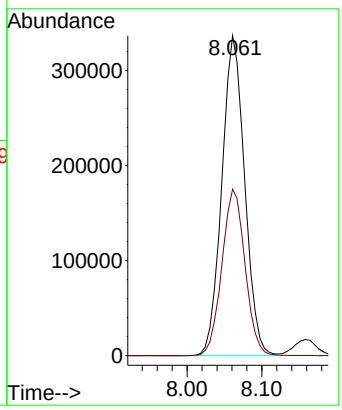




#33
1,2-Dichloroethane-d4
Concen: 140.236 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 65 Resp: 71473

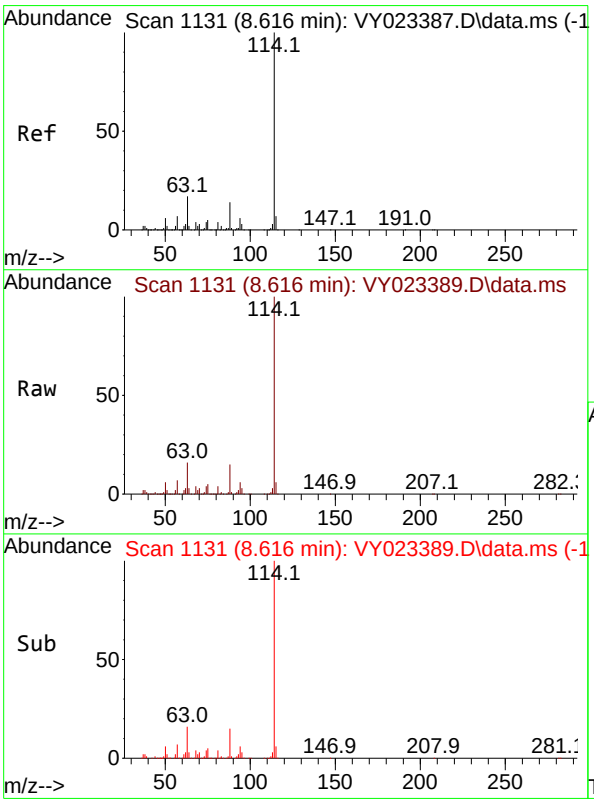
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

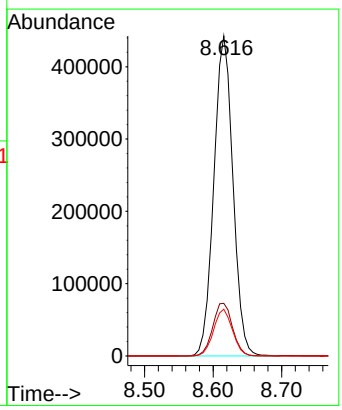
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

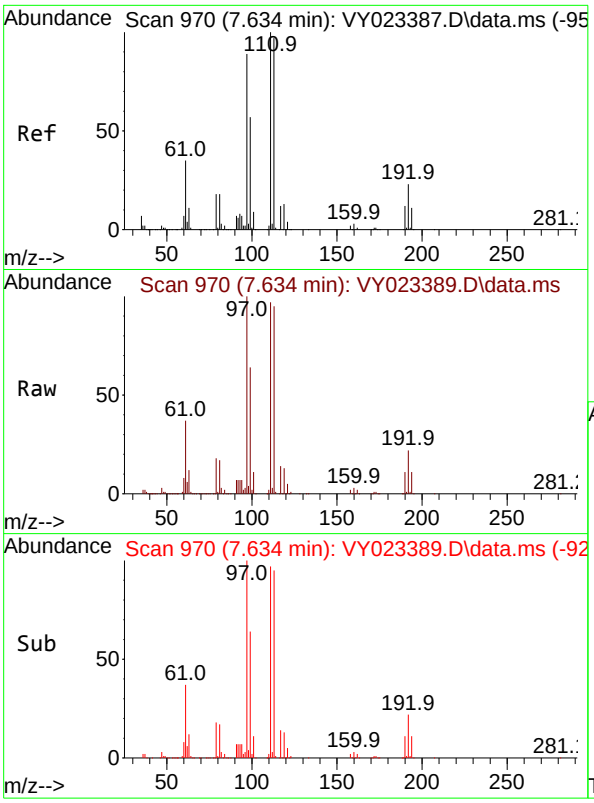


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

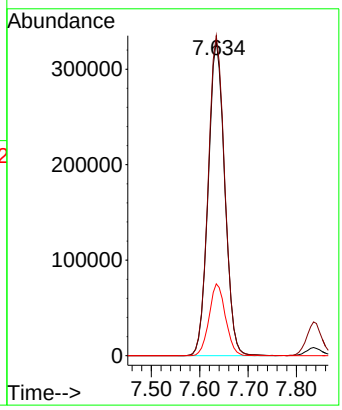




#35
Dibromofluoromethane
Concen: 149.977 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:113 Resp: 77863

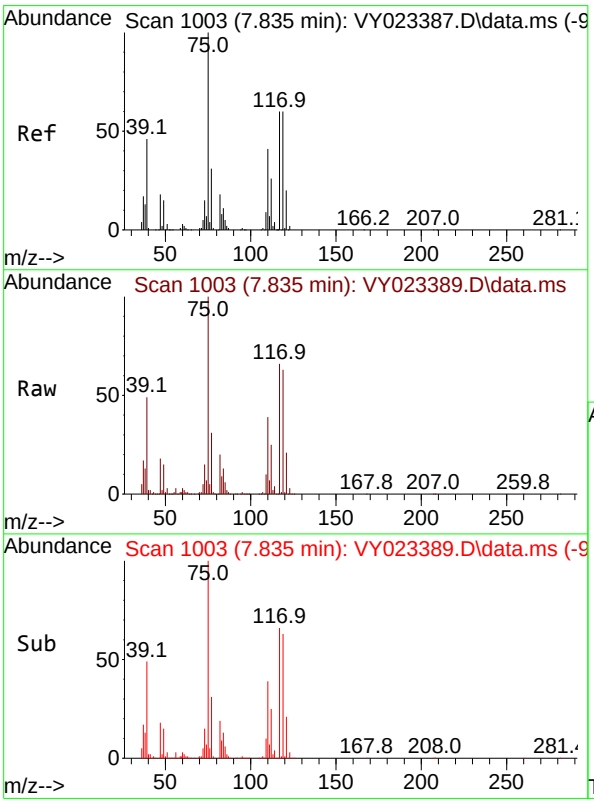
Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.6
192	22.7	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

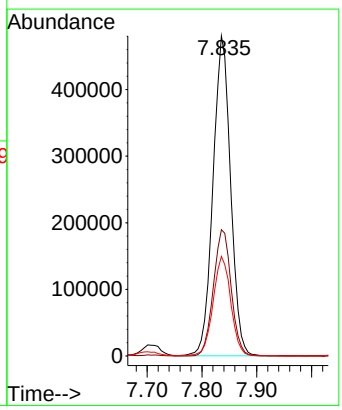
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

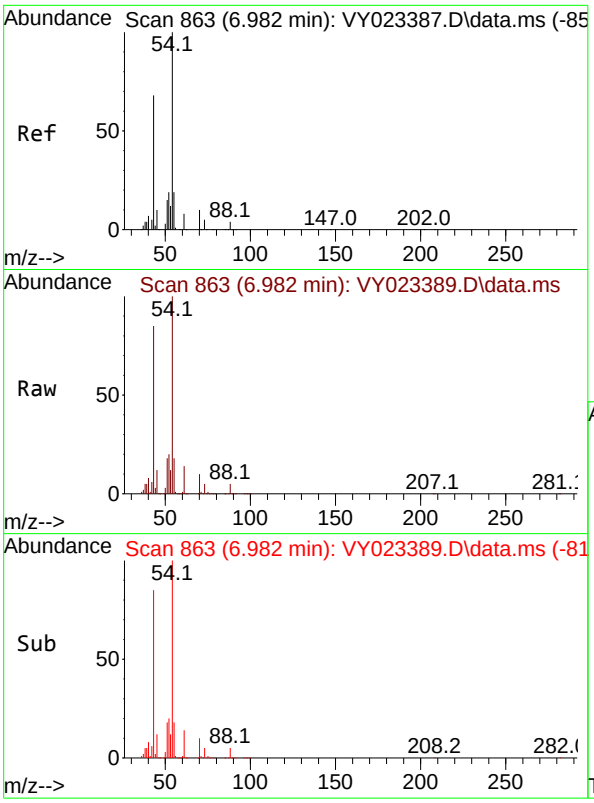


#36
1,1-Dichloropropene
Concen: 146.031 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

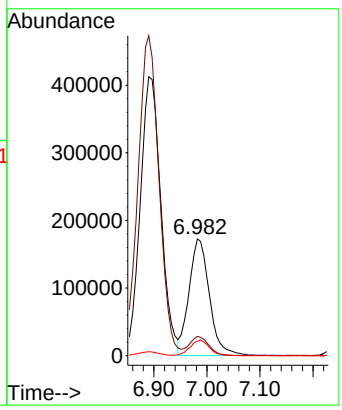
Tgt Ion: 43 Resp: 46002

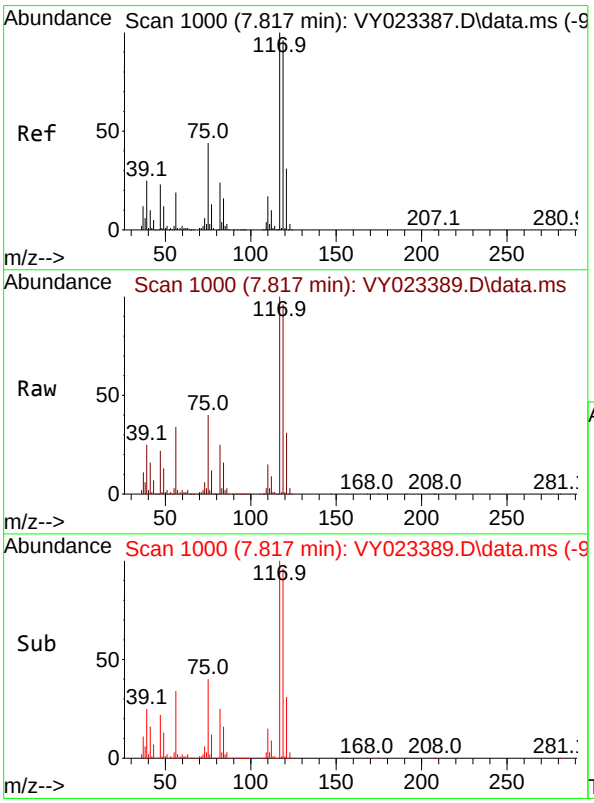
Ion	Ratio	Lower	Upper
43	100		
61	15.9	11.8	17.8
70	12.7	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

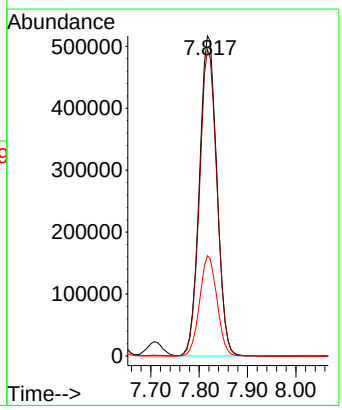


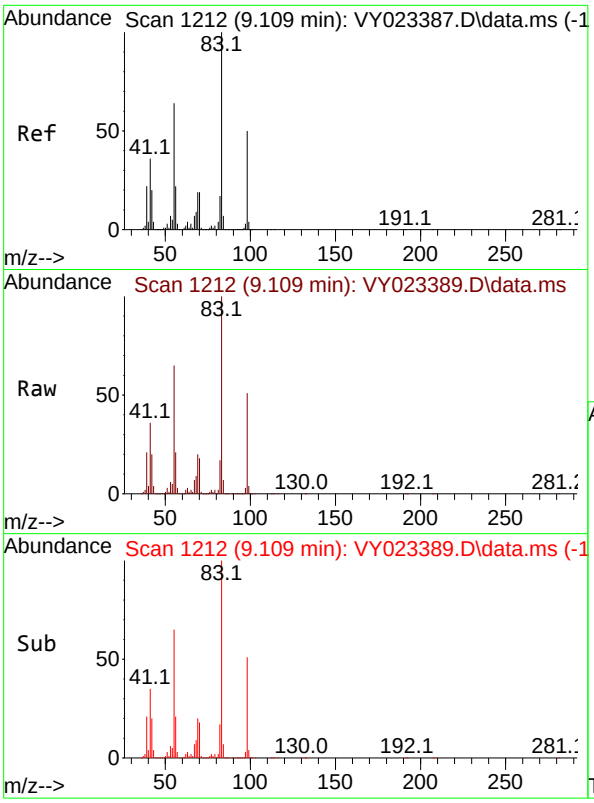


#38
Carbon Tetrachloride
Concen: 151.646 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

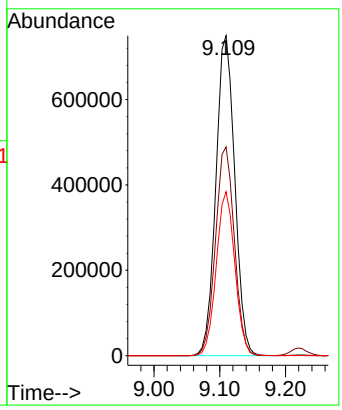




#39
Methylcyclohexane
Concen: 159.580 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 83 Resp: 149661

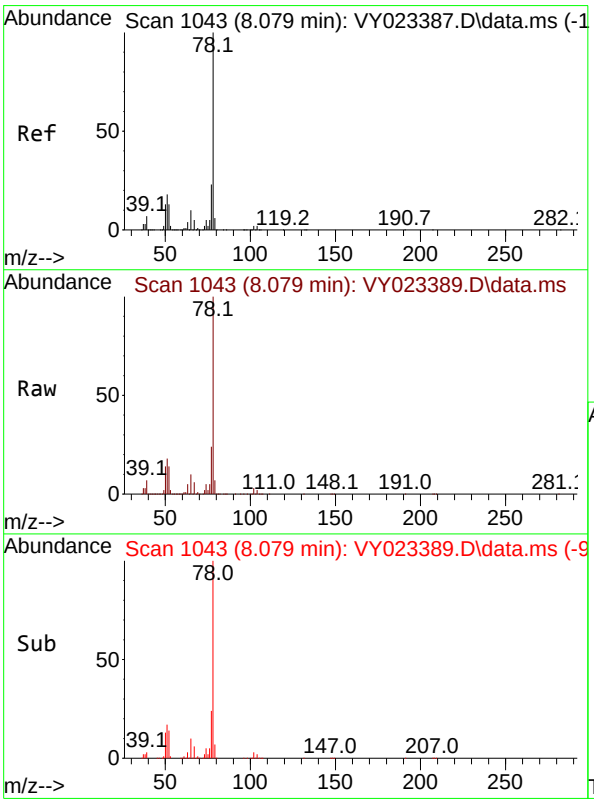
Ion	Ratio	Lower	Upper
83	100		
55	65.2	51.4	77.2
98	51.2	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

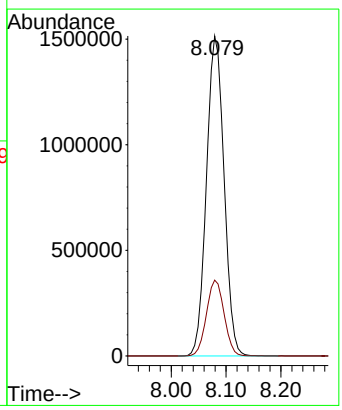
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

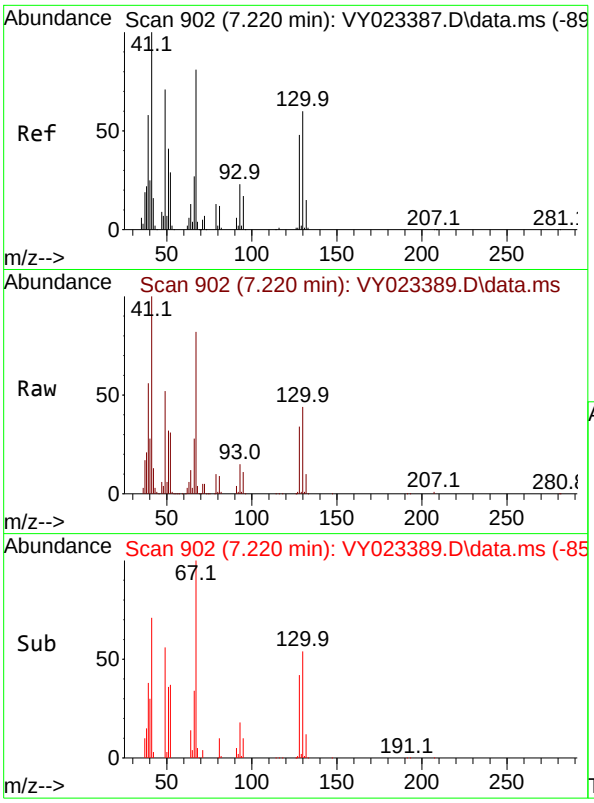


#40
Benzene
Concen: 147.442 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 78 Resp: 3366812

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.3	27.5

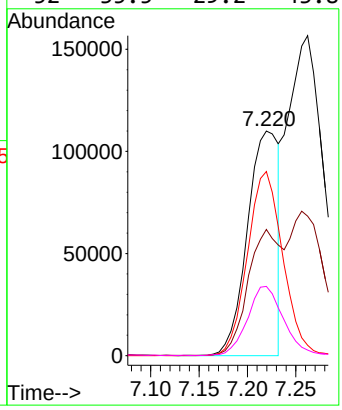




#41
Methacrylonitrile
Concen: 164.212 ug/l
RT: 7.220 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 41 Resp: 24697

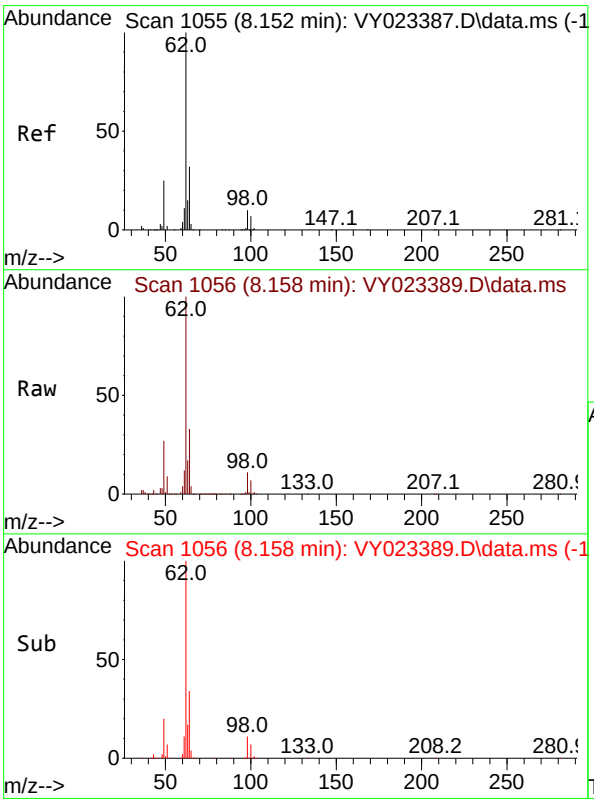
Ion	Ratio	Lower	Upper
41	100		
39	61.7	52.2	78.4
67	93.3	74.9	112.3
52	35.5	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

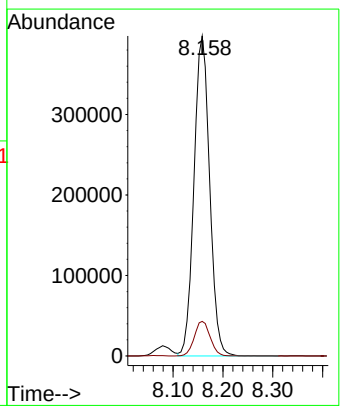
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

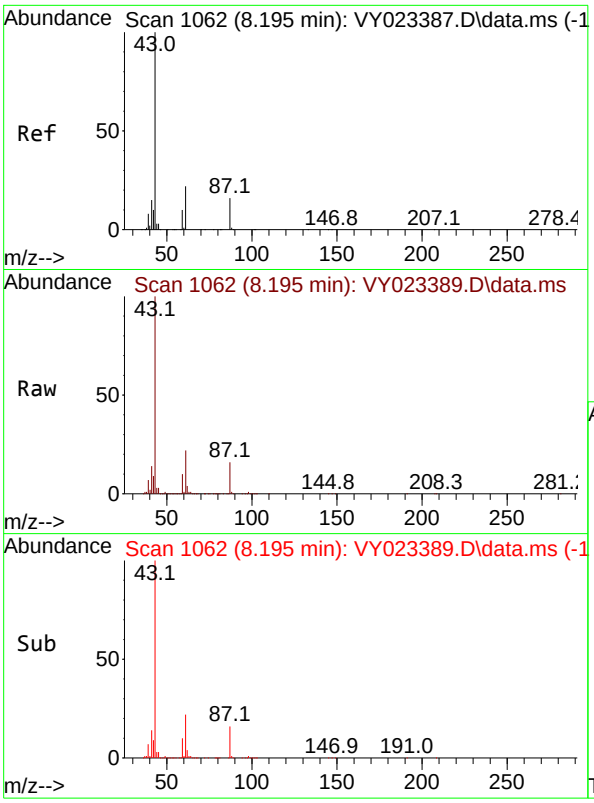


#42
1,2-Dichloroethane
Concen: 149.063 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

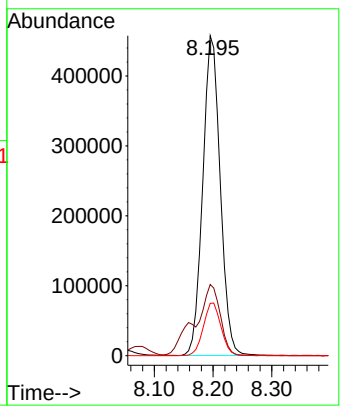
Tgt Ion: 43 Resp: 94608

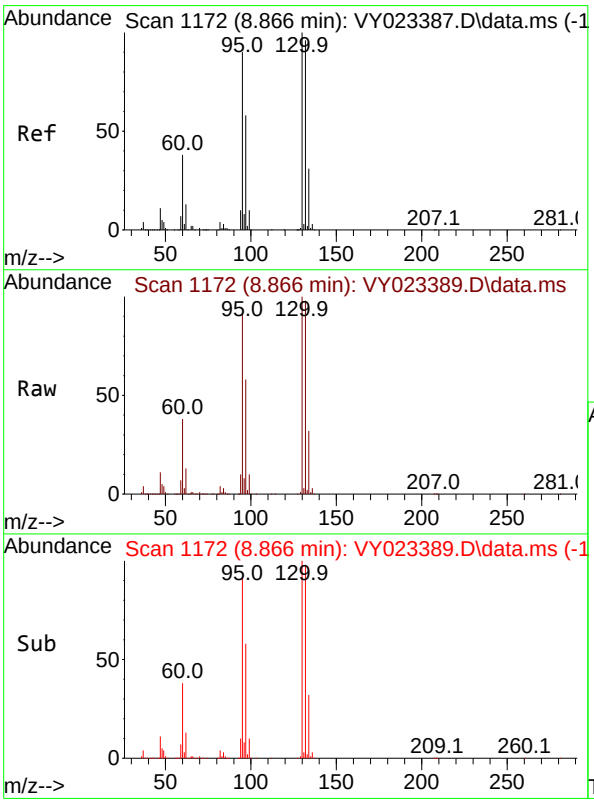
Ion	Ratio	Lower	Upper
43	100		
61	22.6	18.1	27.1
87	16.7	13.5	20.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

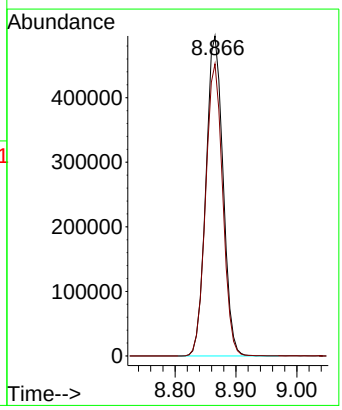


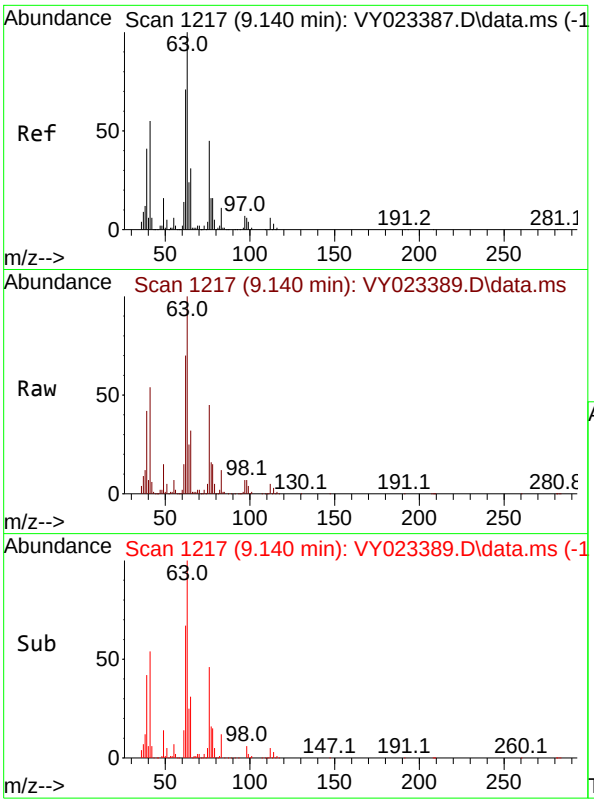


#44
Trichloroethene
Concen: 150.740 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:130 Resp: 966011

Ion	Ratio	Lower	Upper
130	100		
95	91.3	0.0	180.6

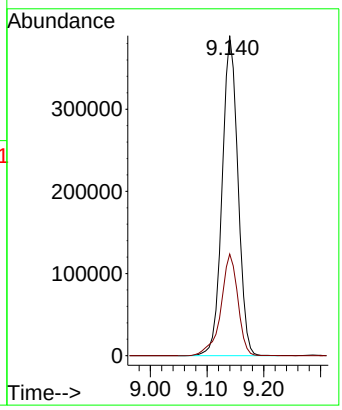




#45
1,2-Dichloropropane
Concen: 146.403 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 63 Resp: 75228

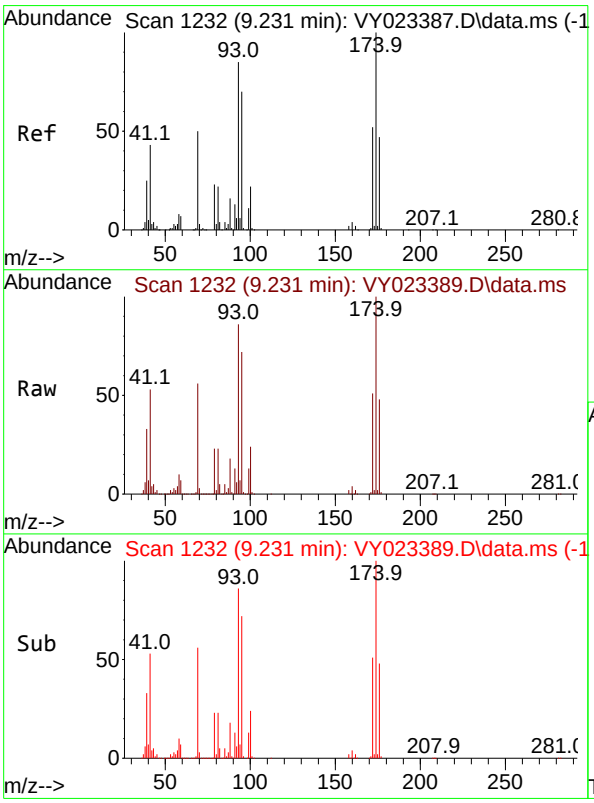
Ion	Ratio	Lower	Upper
63	100		
65	31.7	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

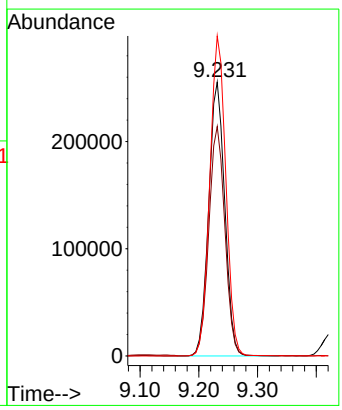
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

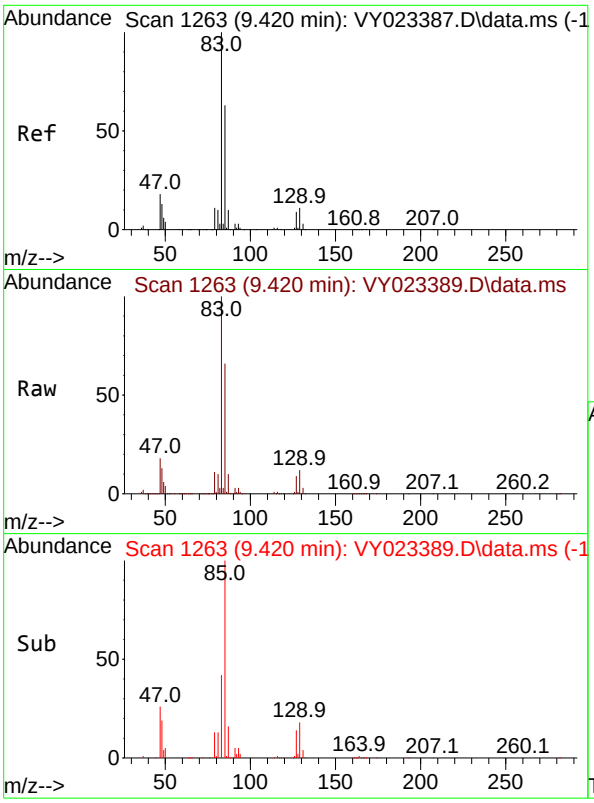


#46
Dibromomethane
Concen: 153.895 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

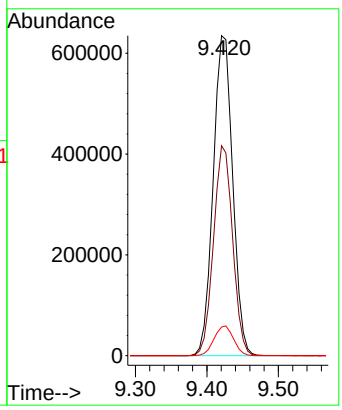




#47
Bromodichloromethane
Concen: 151.965 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 83 Resp: 120224

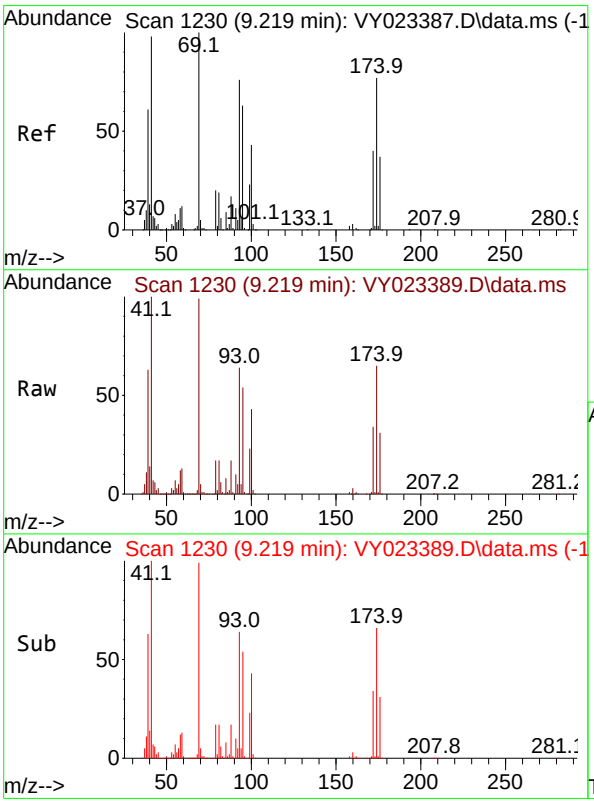
Ion	Ratio	Lower	Upper
83	100		
85	65.6	50.8	76.2
127	9.0	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

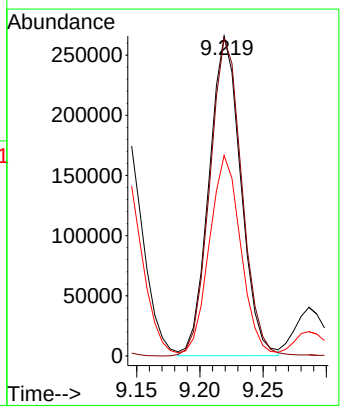
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

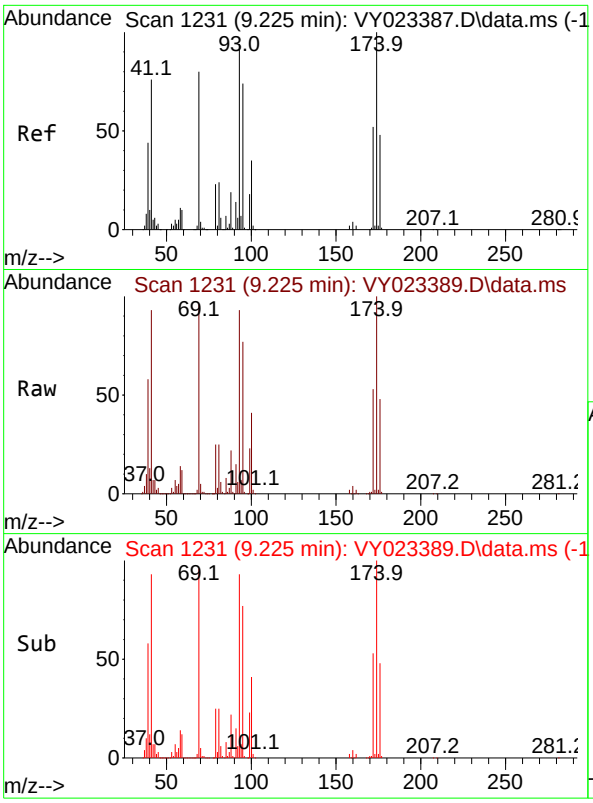


#48
Methyl methacrylate
Concen: 176.368 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

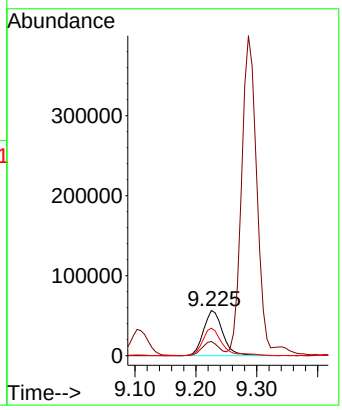




#49
1,4-Dioxane
Concen: 3809.726 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 88 Resp: 12399

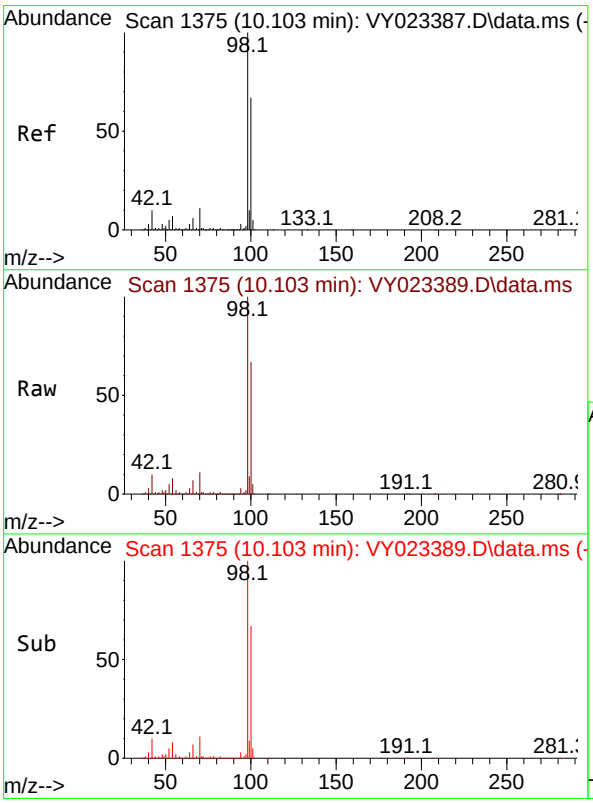
Ion	Ratio	Lower	Upper
88	100		
43	27.5	21.8	32.8
58	62.1	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

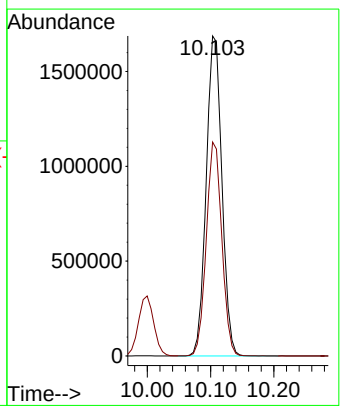
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

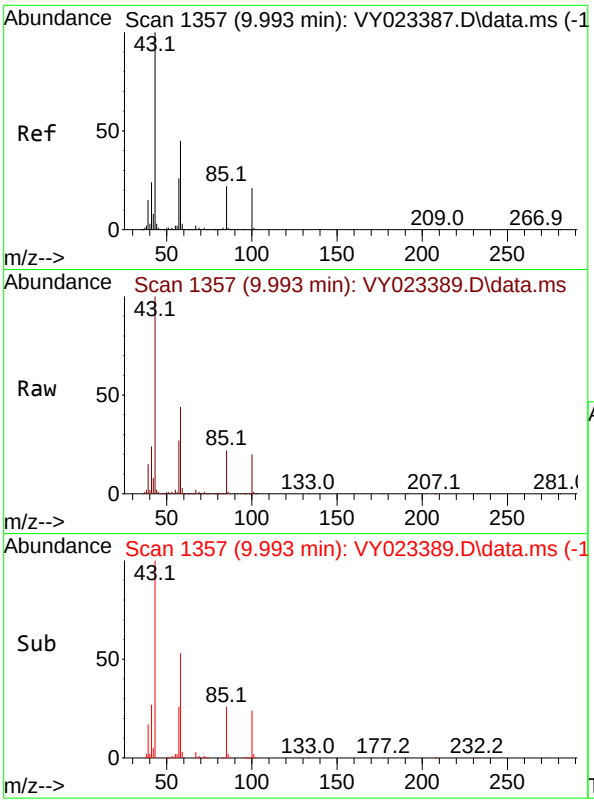


#50
Toluene-d8
Concen: 148.741 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 98 Resp: 2912319

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4

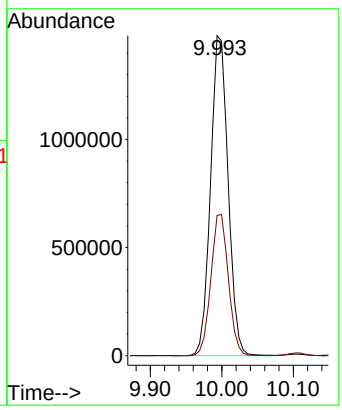




#51
4-Methyl-2-Pentanone
Concen: 872.045 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 251610

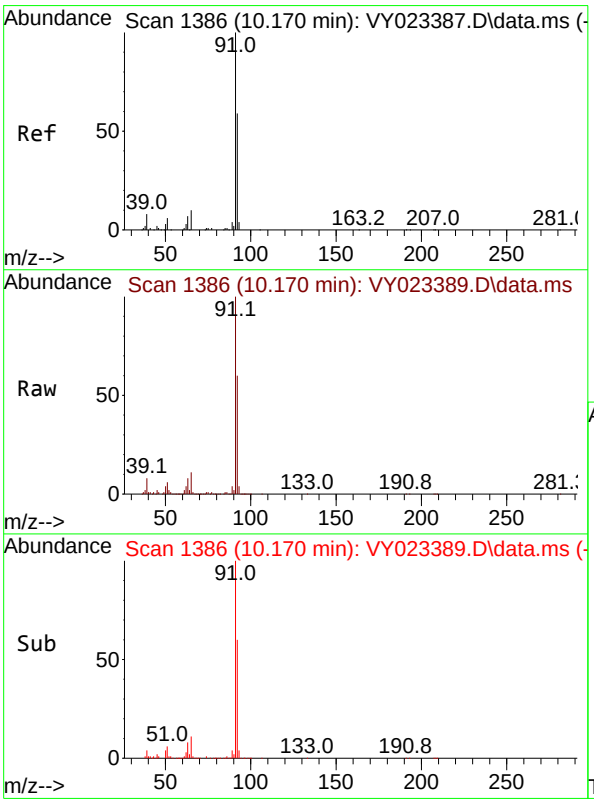
Ion	Ratio	Lower	Upper
43	100		
58	44.1	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

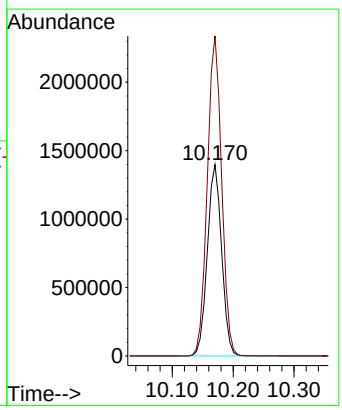
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

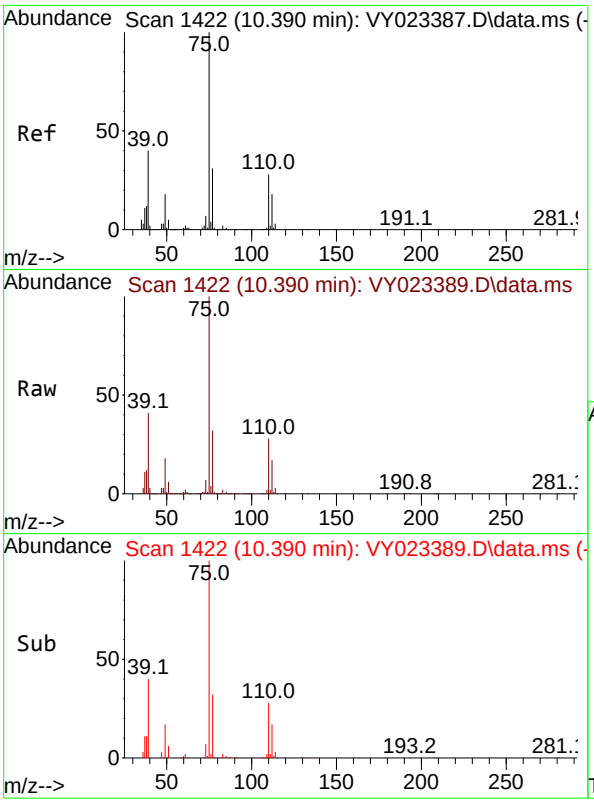


#52
Toluene
Concen: 156.786 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 92 Resp: 2272574

Ion	Ratio	Lower	Upper
92	100		
91	168.3	136.4	204.6

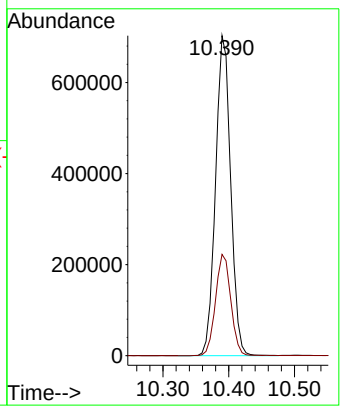




#53
t-1,3-Dichloropropene
Concen: 165.367 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 112364

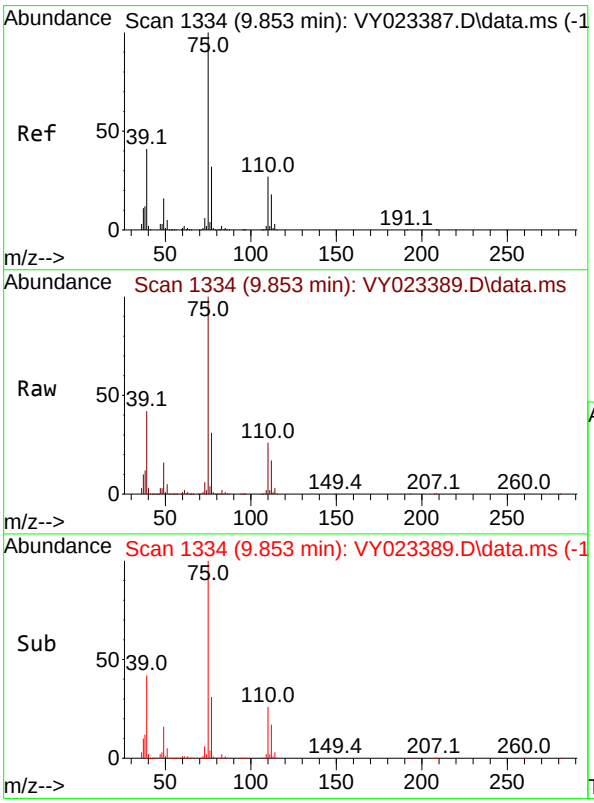
Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

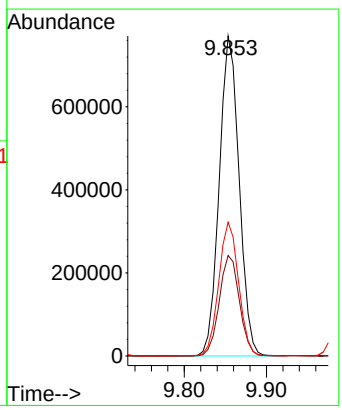
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

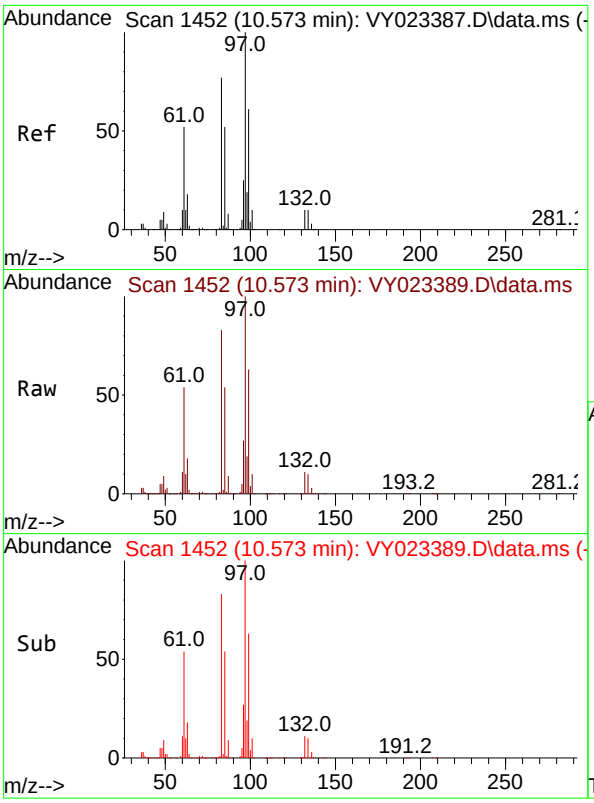


#54
cis-1,3-Dichloropropene
Concen: 159.654 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

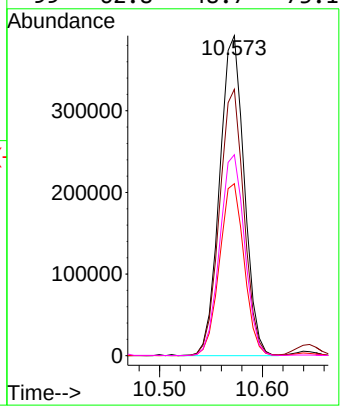




#55
1,1,2-Trichloroethane
Concen: 156.020 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 97 Resp: 65224

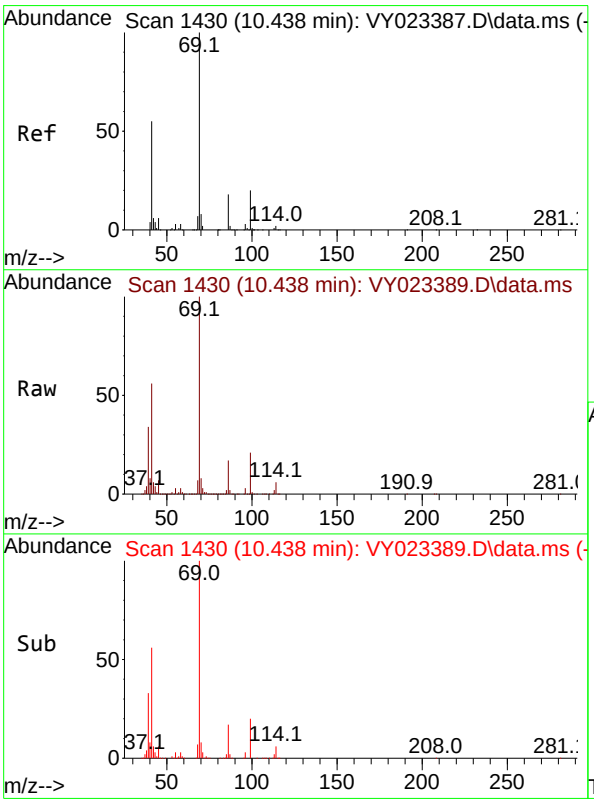
Ion	Ratio	Lower	Upper
97	100		
83	83.2	61.8	92.6
85	53.7	41.3	61.9
99	62.8	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

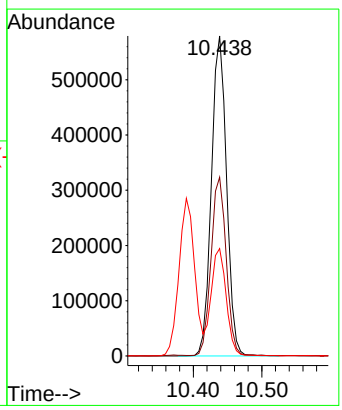
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

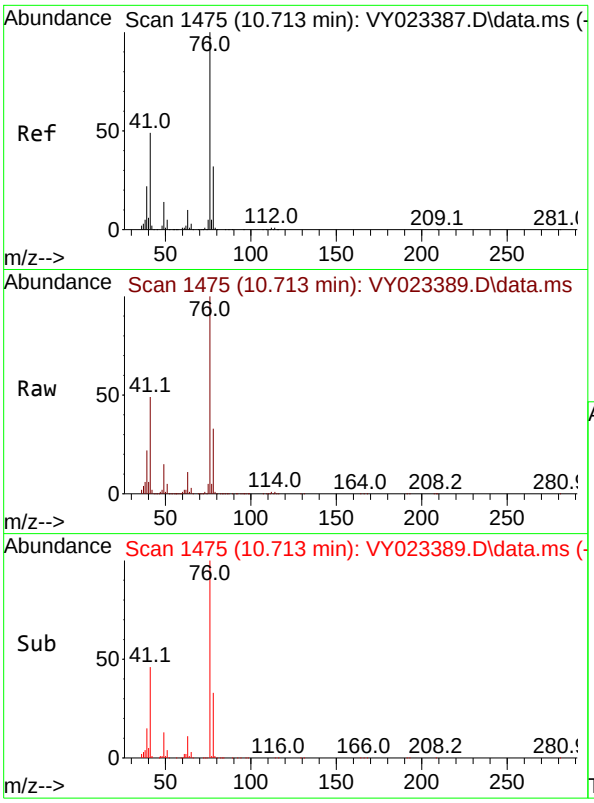


#56
Ethyl methacrylate
Concen: 184.048 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

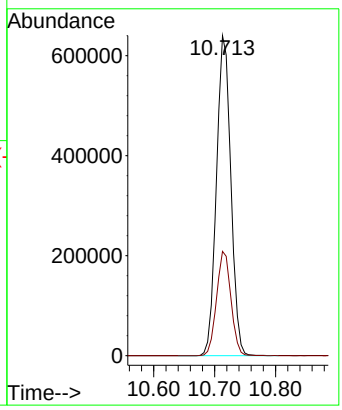




#57
1,3-Dichloropropane
Concen: 155.122 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 76 Resp: 104959

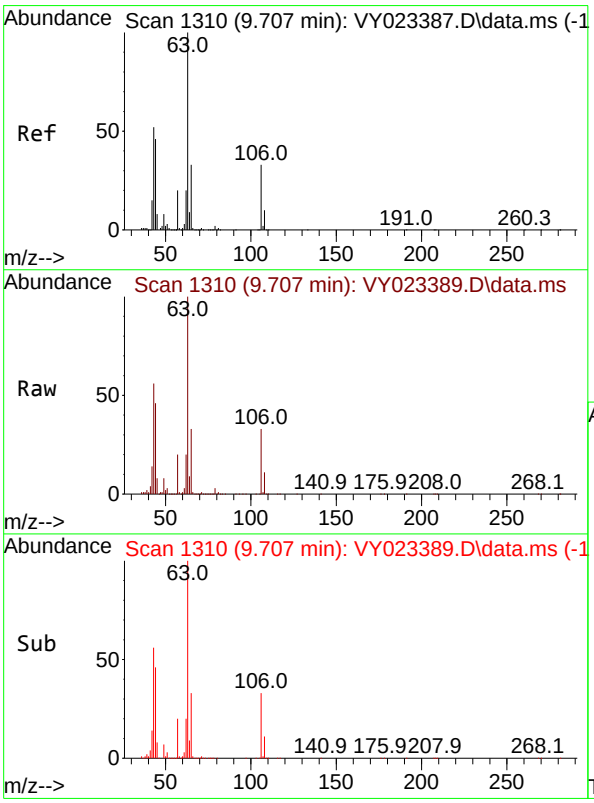
Ion	Ratio	Lower	Upper
76	100		
78	32.6	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

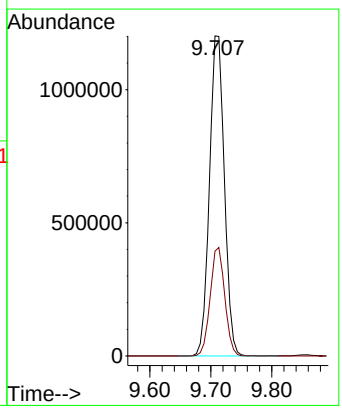
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

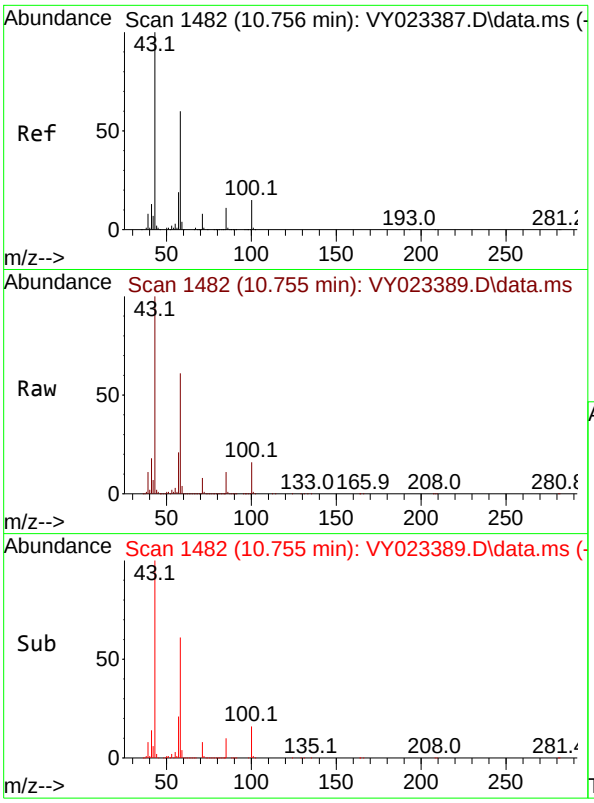


#58
2-Chloroethyl Vinyl ether
Concen: 968.559 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 63 Resp: 2040136

Ion	Ratio	Lower	Upper
63	100		
106	33.2	26.6	39.8

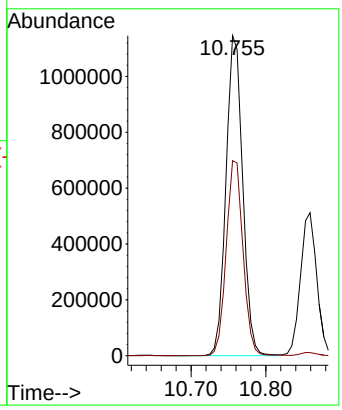




#59
2-Hexanone
Concen: 889.038 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 43 Resp: 177603

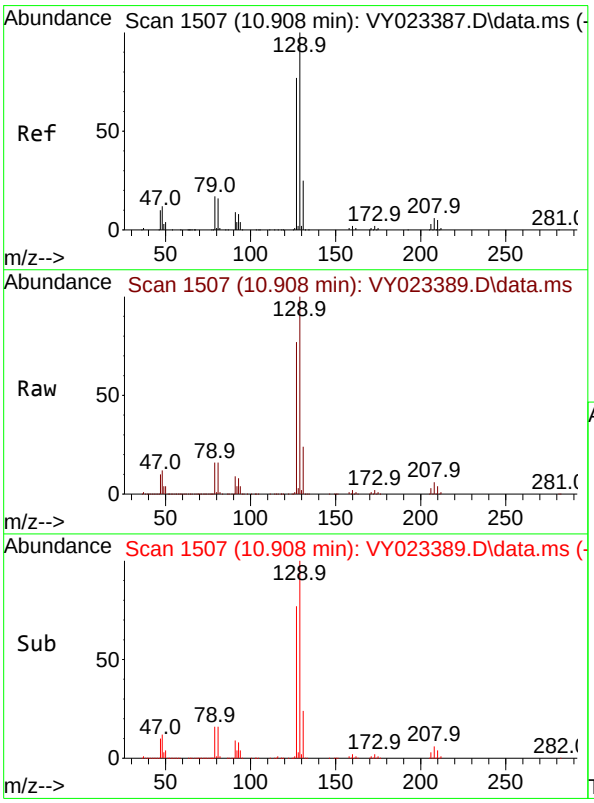
Ion	Ratio	Lower	Upper
43	100		
58	61.4	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

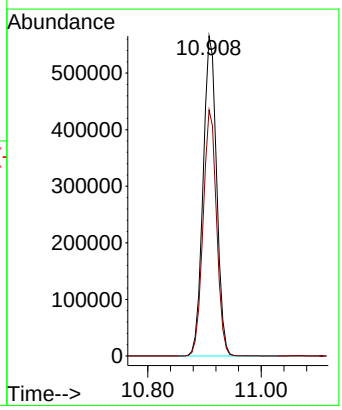
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

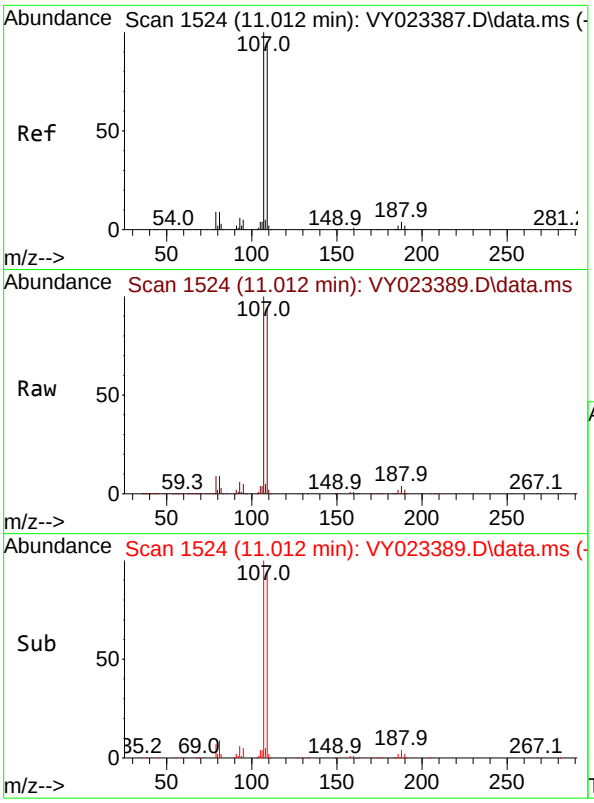


#60
Dibromochloromethane
Concen: 164.084 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:129 Resp: 935577

Ion	Ratio	Lower	Upper
129	100		
127	76.4	38.6	115.7

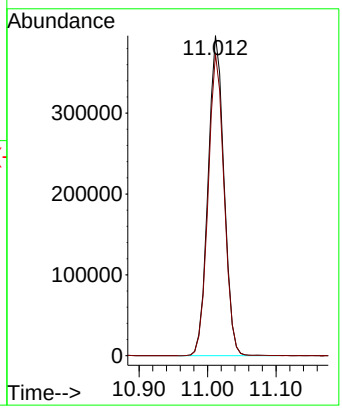




#61
1,2-Dibromoethane
Concen: 162.699 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:107 Resp: 63989

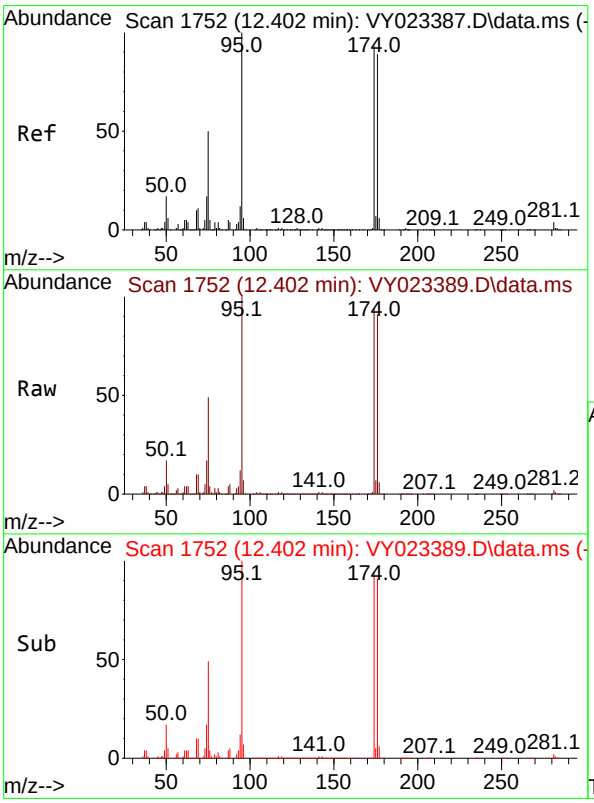
Ion	Ratio	Lower	Upper
107	100		
109	94.4	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

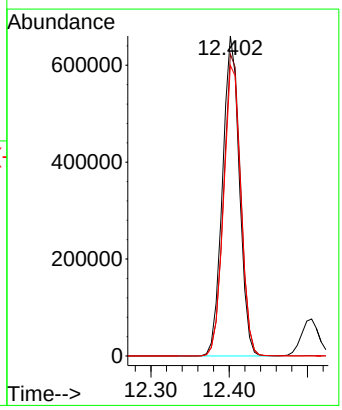
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

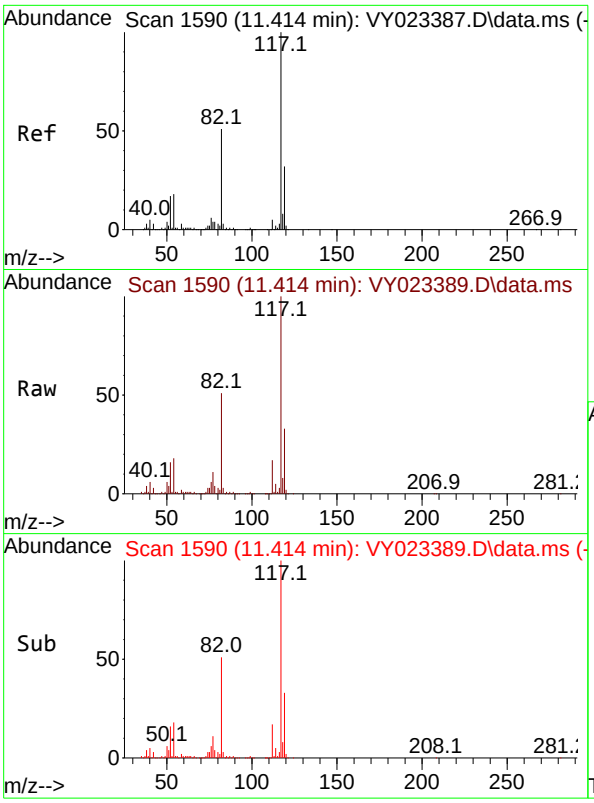


#62
4-Bromofluorobenzene
Concen: 160.423 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

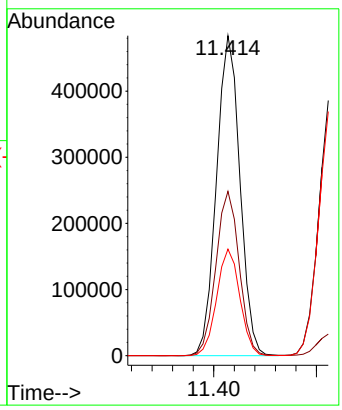




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:117 Resp: 76535

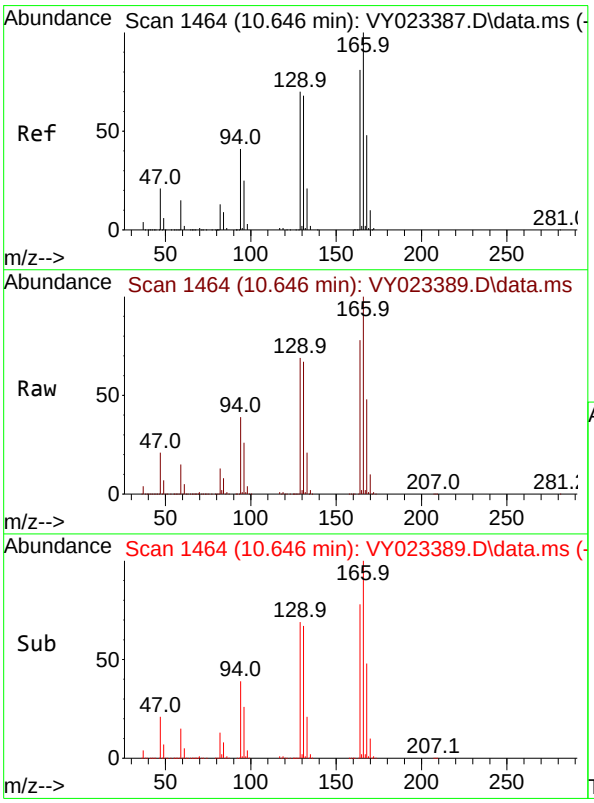
Ion	Ratio	Lower	Upper
117	100		
82	51.3	41.0	61.4
119	33.3	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

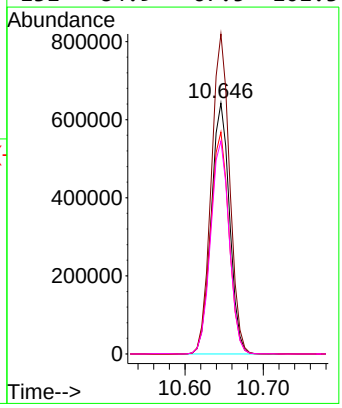
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

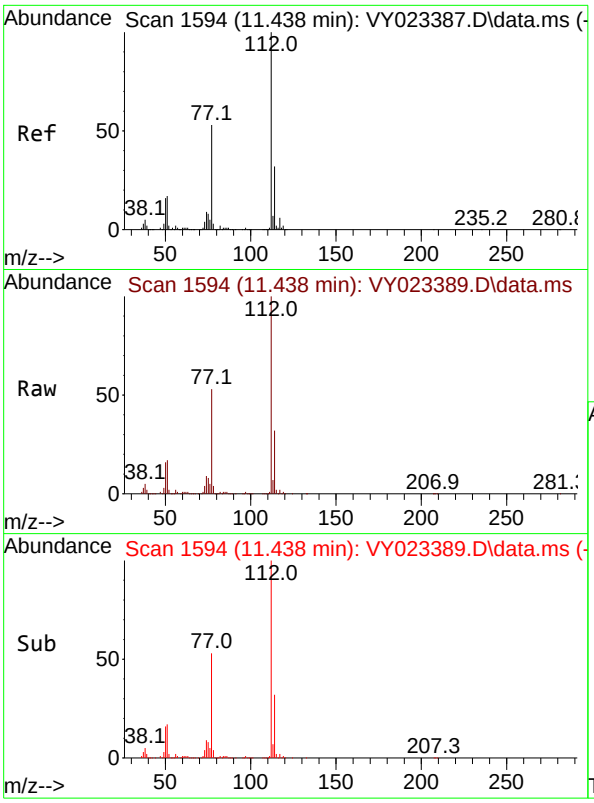


#64
Tetrachloroethene
Concen: 136.739 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

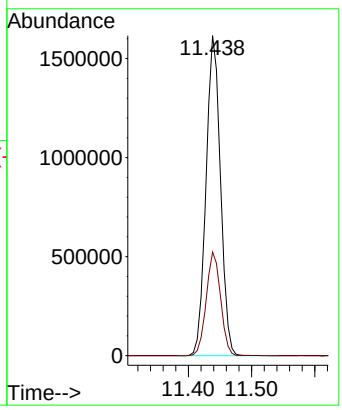




#65
Chlorobenzene
Concen: 154.117 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:112 Resp: 256317

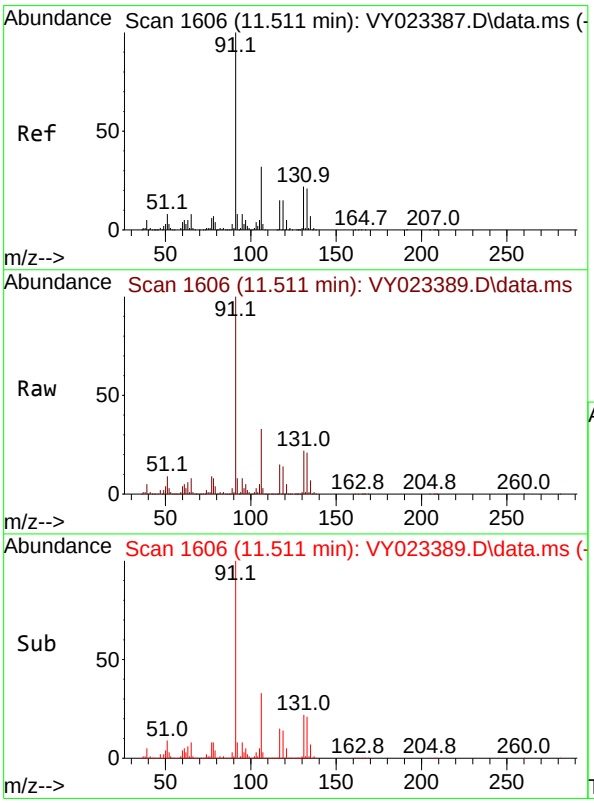
Ion	Ratio	Lower	Upper
112	100		
114	32.4	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

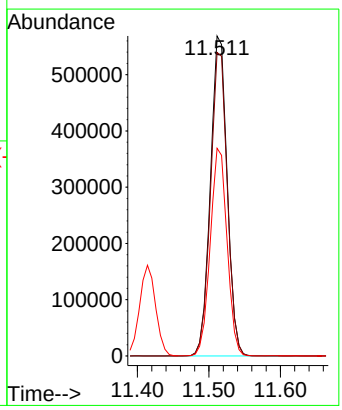
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

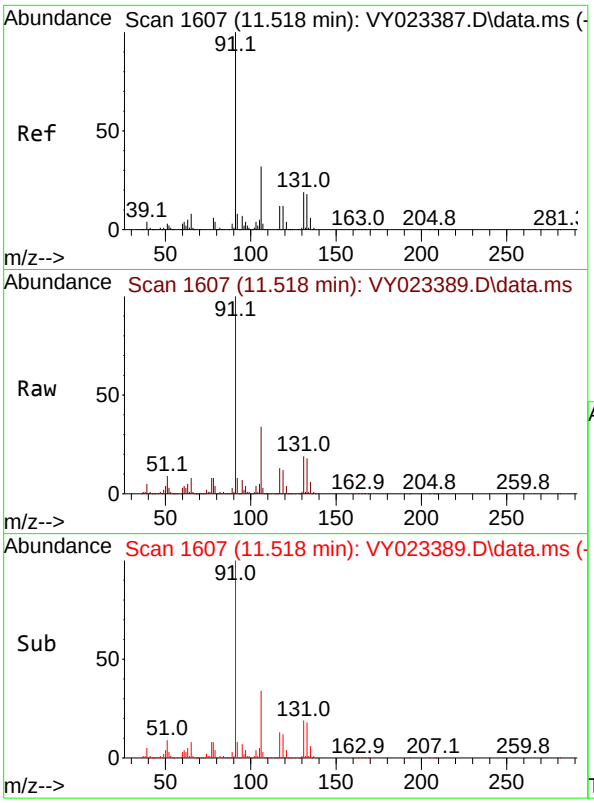


#66
1,1,1,2-Tetrachloroethane
Concen: 157.870 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

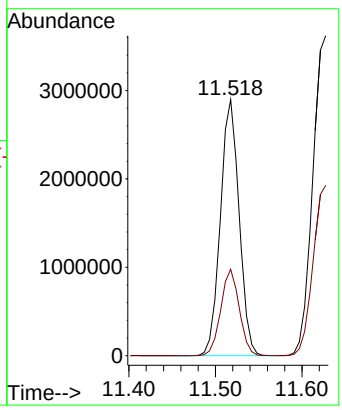
Tgt Ion: 91 Resp: 434180

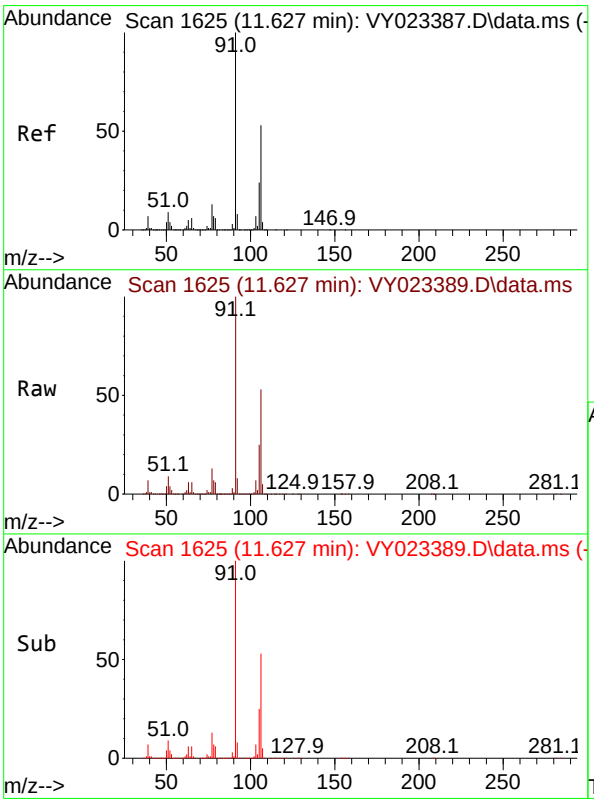
Ion	Ratio	Lower	Upper
91	100		
106	33.8	25.8	38.8

Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

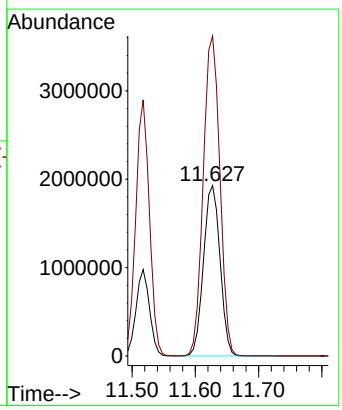


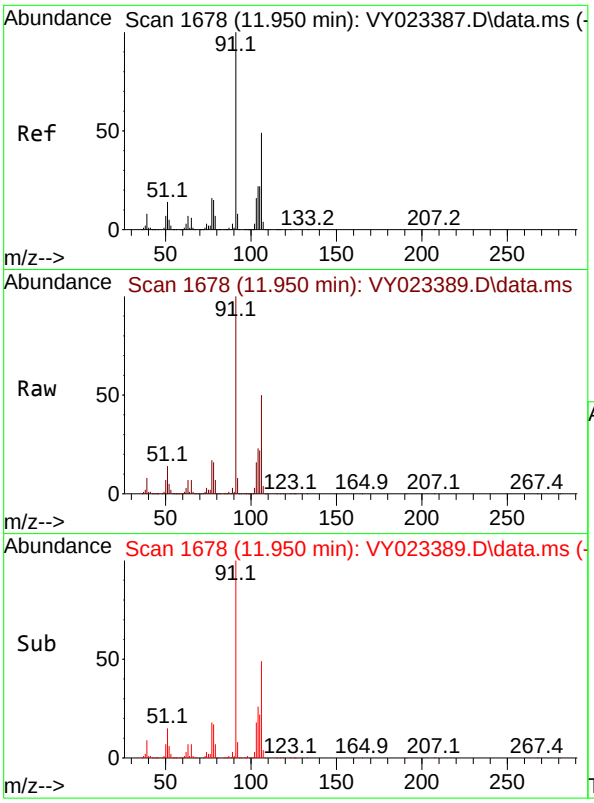


#68
m/p-Xylenes
Concen: 321.899 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:106 Resp: 3502137

Ion	Ratio	Lower	Upper
106	100		
91	189.2	152.6	229.0

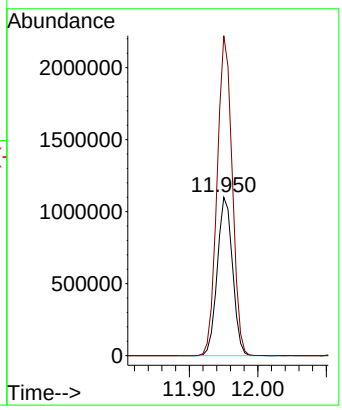




#69
o-Xylene
Concen: 168.295 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:106 Resp: 169498

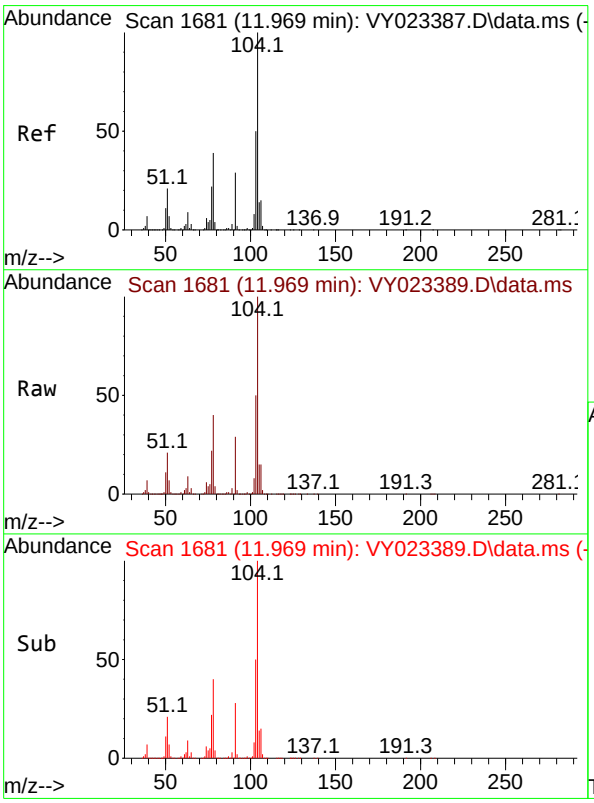
Ion	Ratio	Lower	Upper
106	100		
91	200.0	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

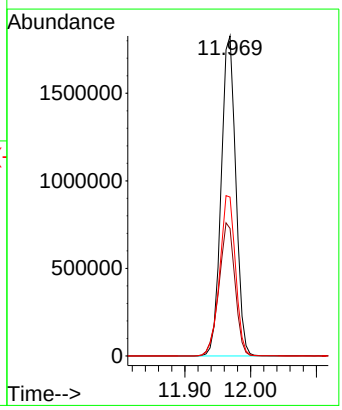
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

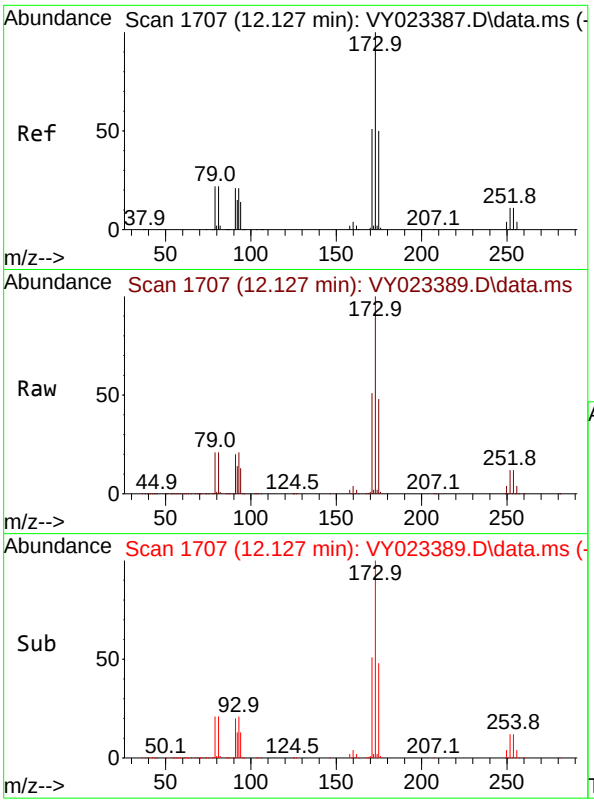


#70
Styrene
Concen: 170.203 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

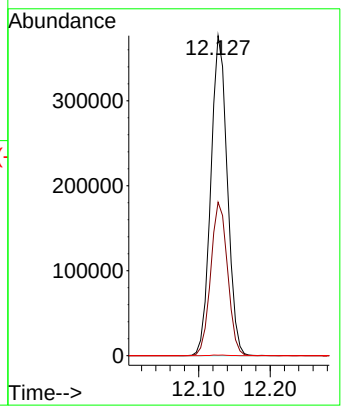




#71
Bromoform
Concen: 172.115 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:173 Resp: 60264

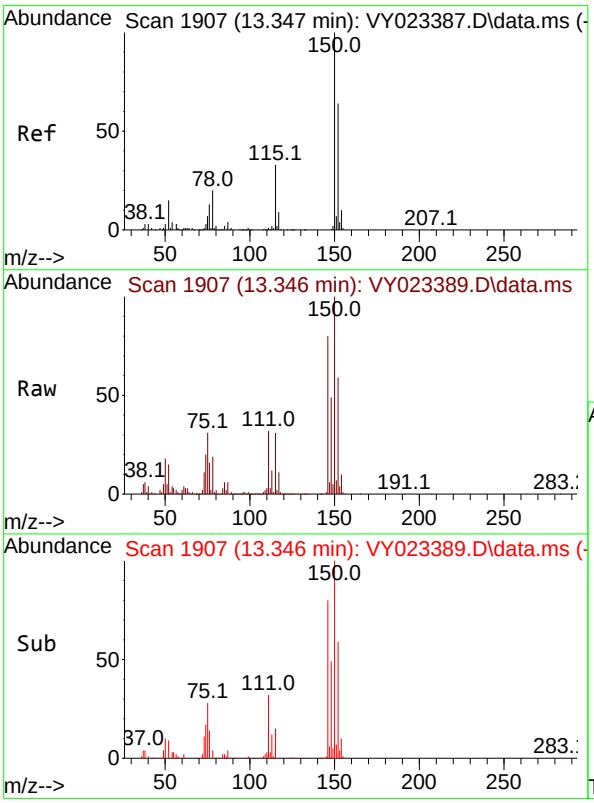
Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.8	74.3
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

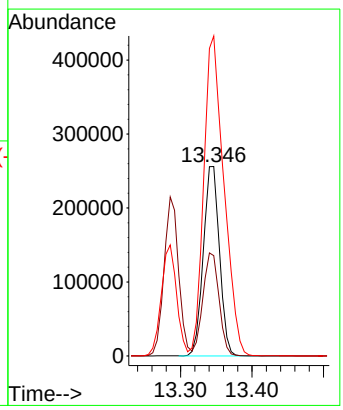
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

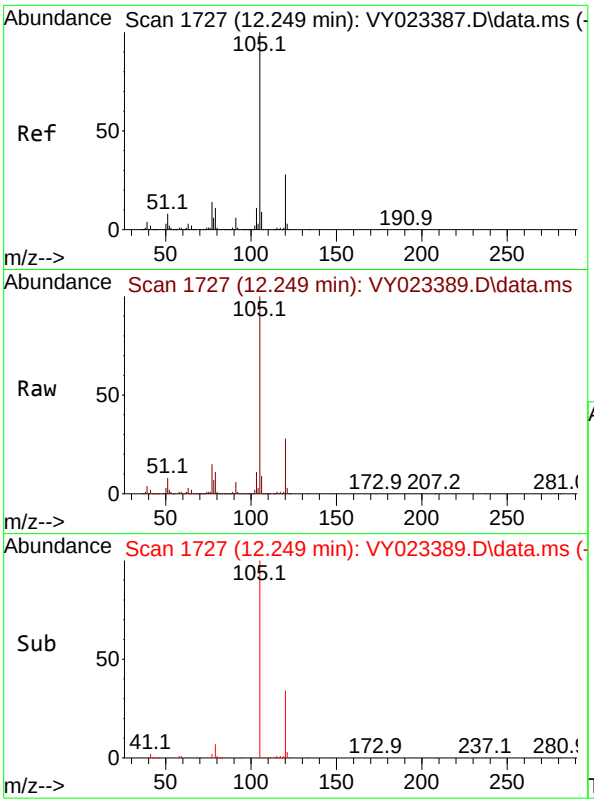


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

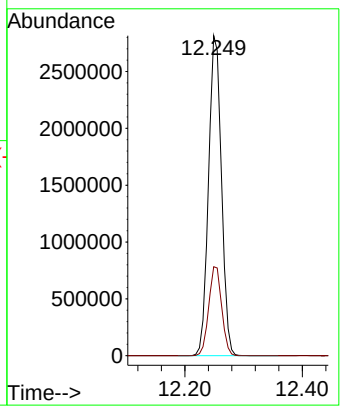




#73
Isopropylbenzene
Concen: 160.084 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:105 Resp: 429066

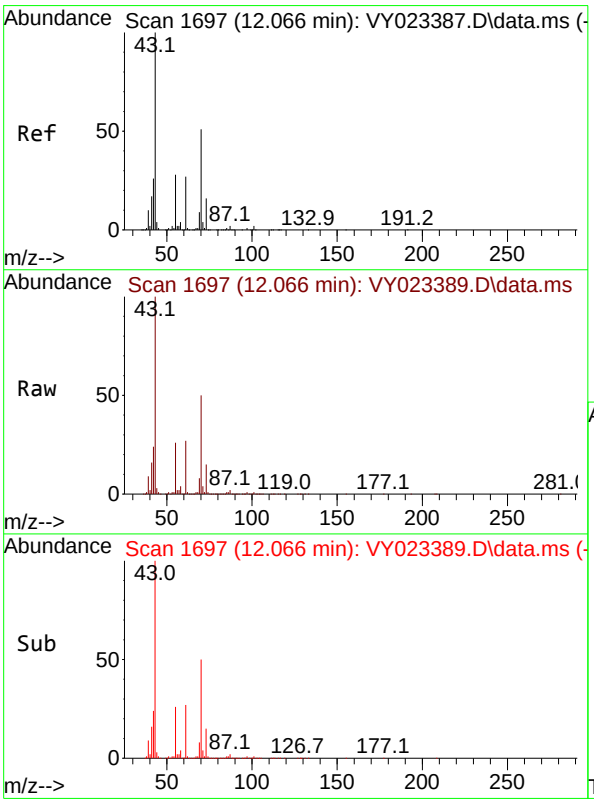
Ion	Ratio	Lower	Upper
105	100		
120	27.9	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

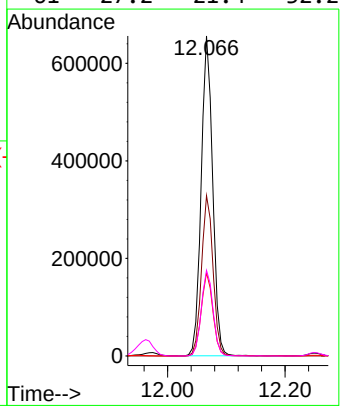
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

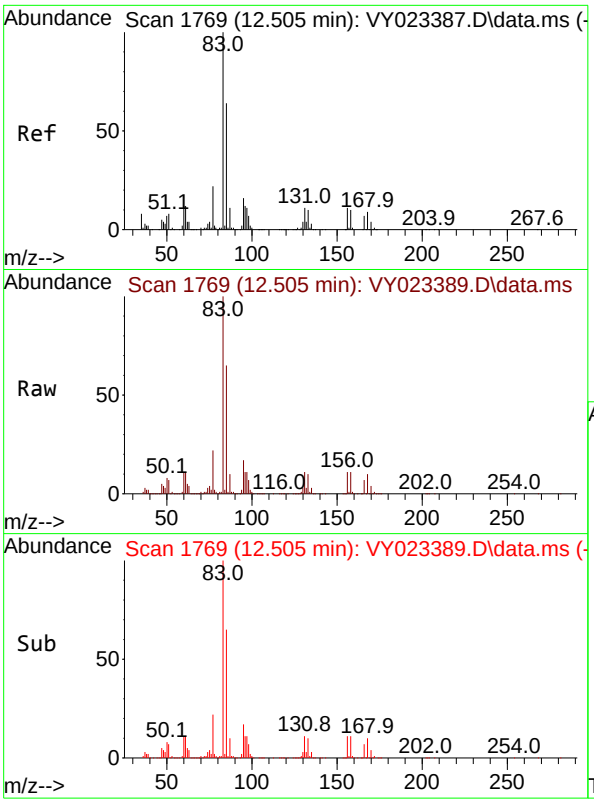


#74
N-amyl acetate
Concen: 177.866 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

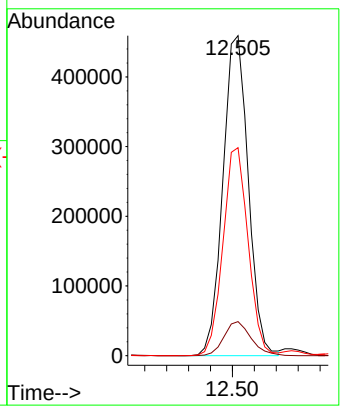




#75
1,1,2,2-Tetrachloroethane
Concen: 165.010 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 83 Resp: 73777

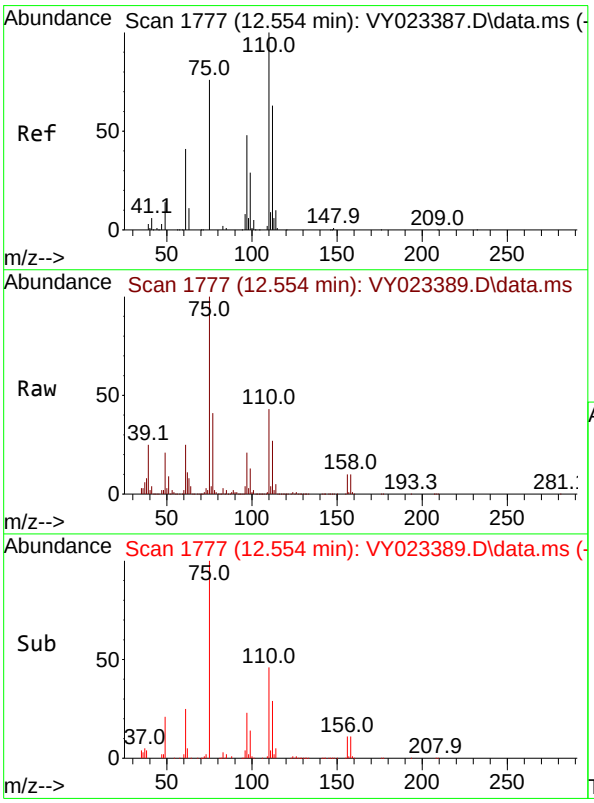
Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.9	17.6
85	64.4	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

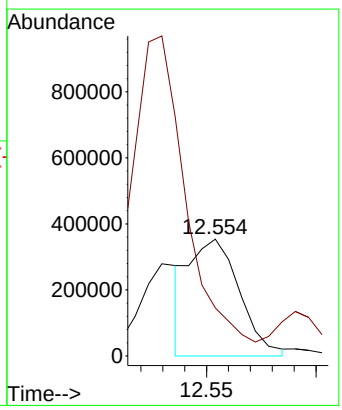
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

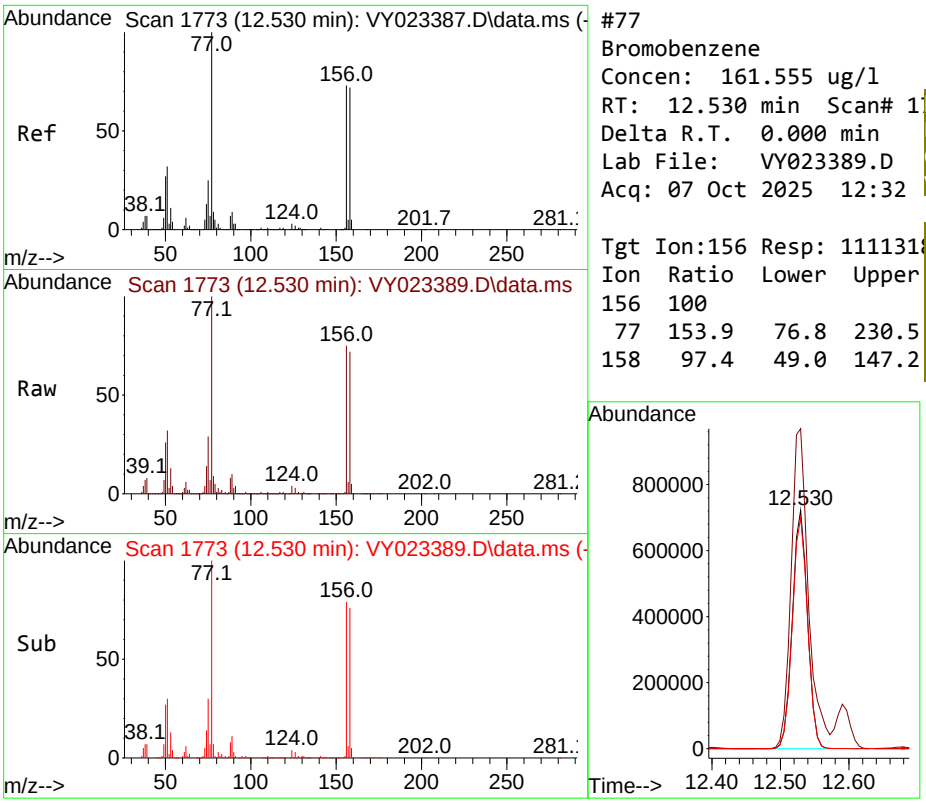


#76
1,2,3-Trichloropropane
Concen: 142.542 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

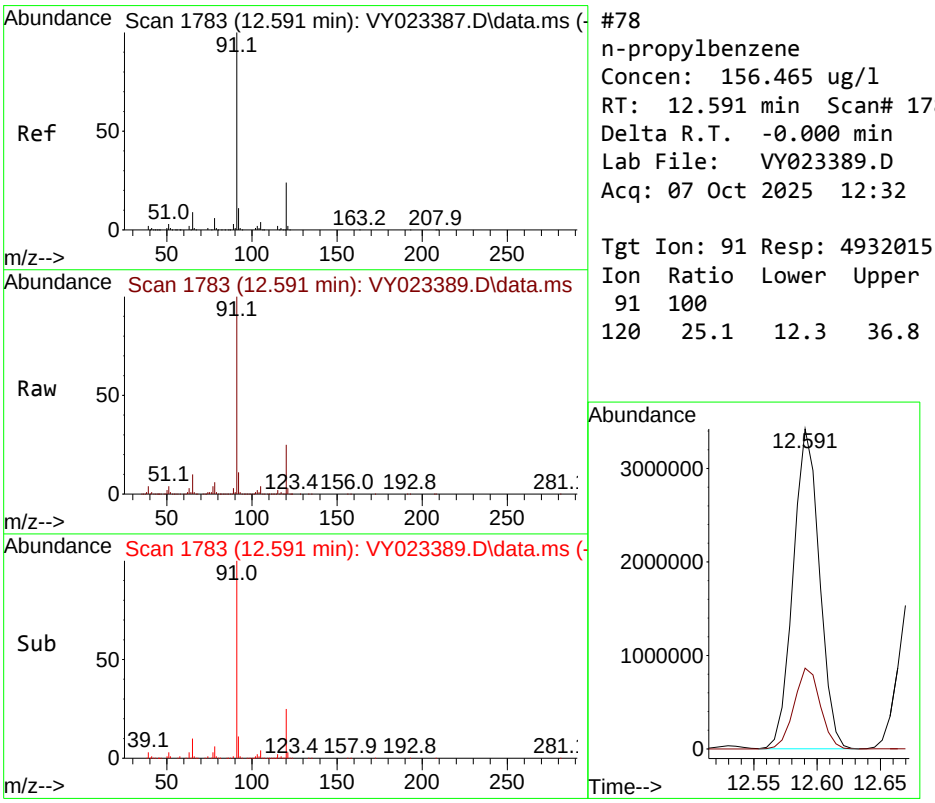
Tgt Ion:156 Resp: 111131

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

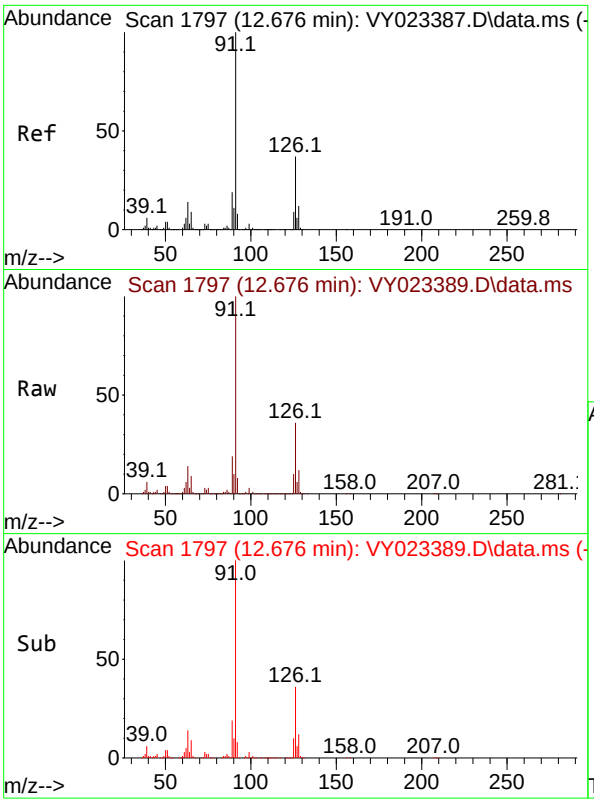
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

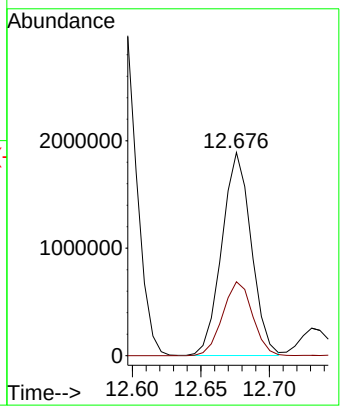
Ion	Ratio	Lower	Upper
91	100		
120	25.1	12.3	36.8



#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

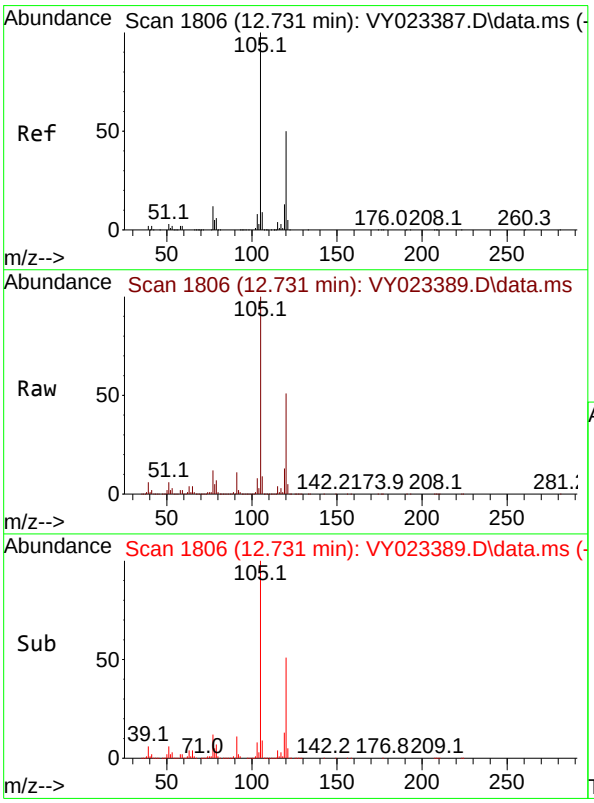
Ion	Ratio	Lower	Upper
91	100		
126	37.1	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

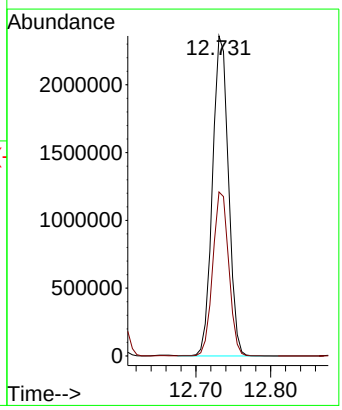
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

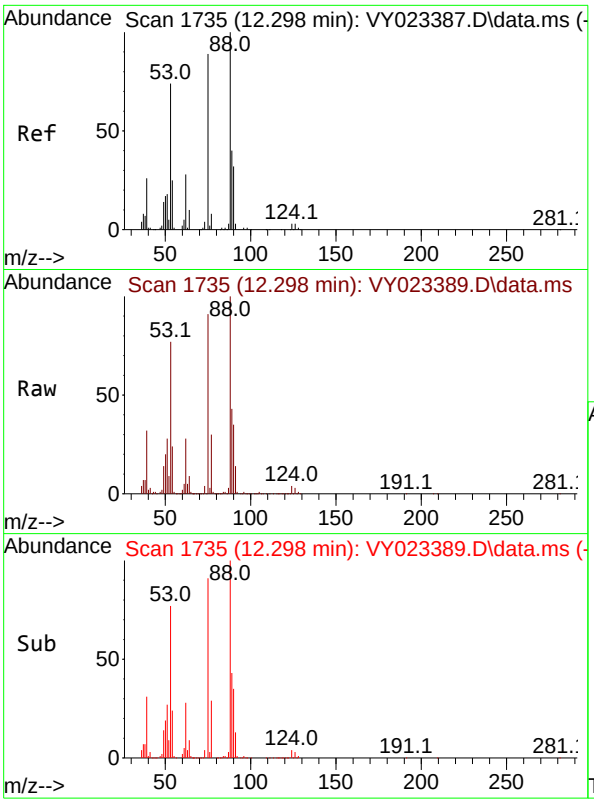


#80
1,3,5-Trimethylbenzene
Concen: 160.460 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:105 Resp: 3496249

Ion	Ratio	Lower	Upper
105	100		
120	51.4	25.4	76.4

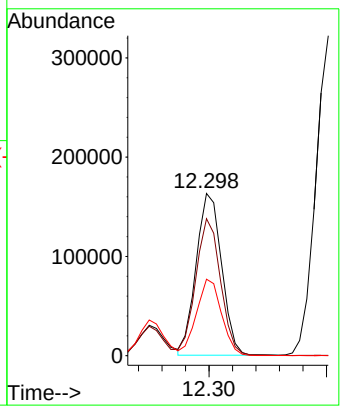




#81
trans-1,4-Dichloro-2-butene
Concen: 166.570 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 75 Resp: 24519

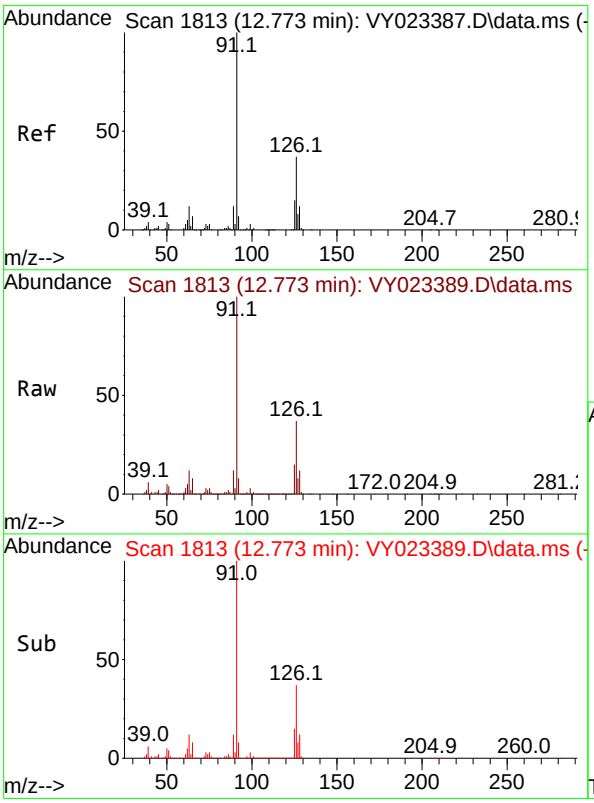
Ion	Ratio	Lower	Upper
75	100		
53	83.6	68.6	102.8
89	46.8	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

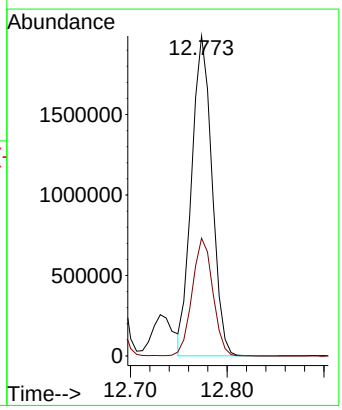
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

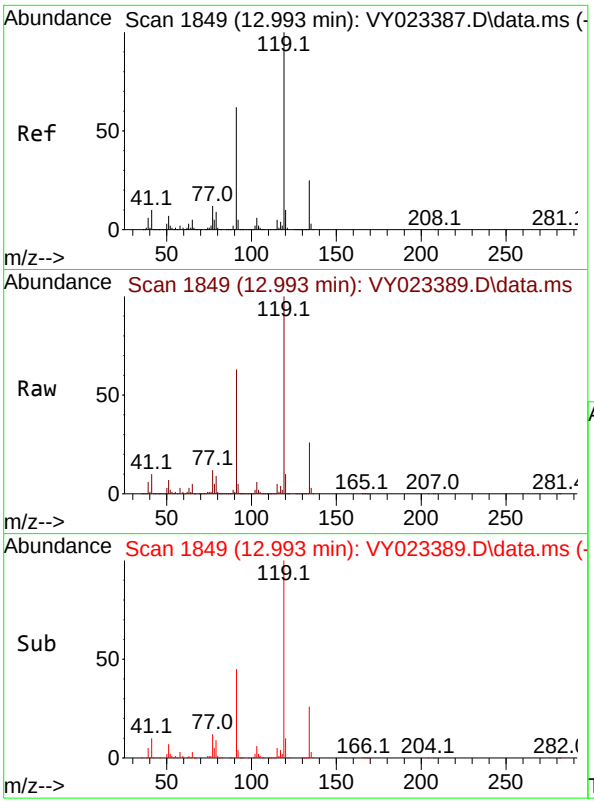


#82
4-Chlorotoluene
Concen: 152.701 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion: 91 Resp: 2902371

Ion	Ratio	Lower	Upper
91	100		
126	37.3	18.4	55.4

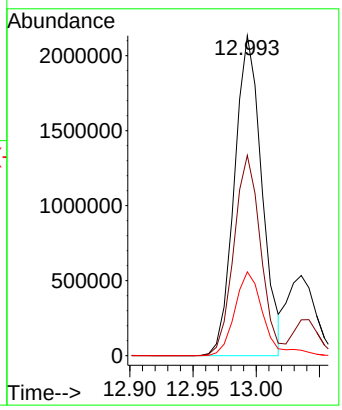




#83
tert-Butylbenzene
Concen: 162.197 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:119 Resp: 322038

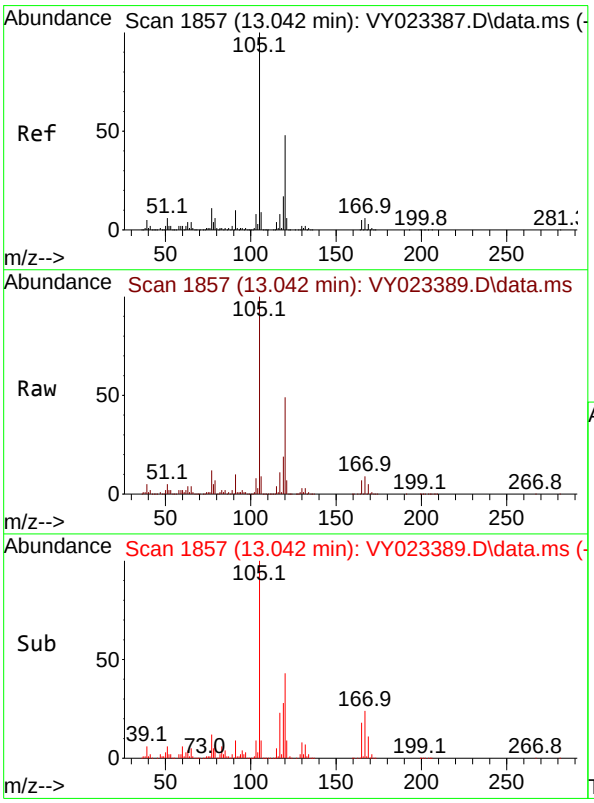
Ion	Ratio	Lower	Upper
119	100		
91	61.6	29.9	89.8
134	27.4	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

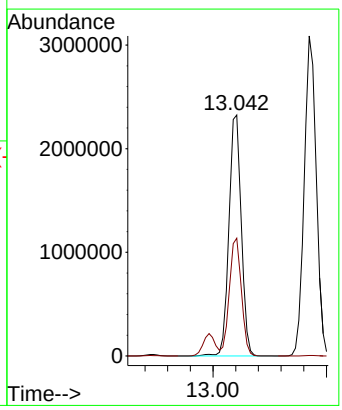
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

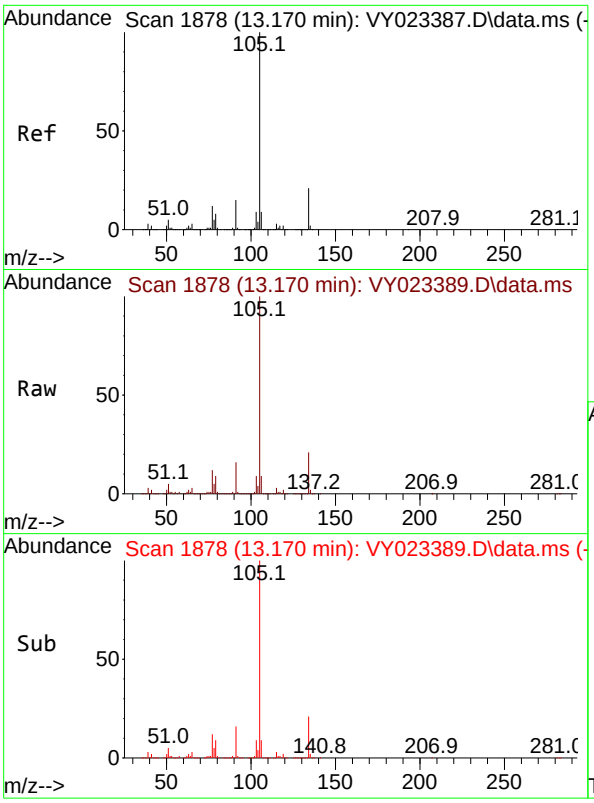


#84
1,2,4-Trimethylbenzene
Concen: 162.527 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:105 Resp: 3503639

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.8	71.2

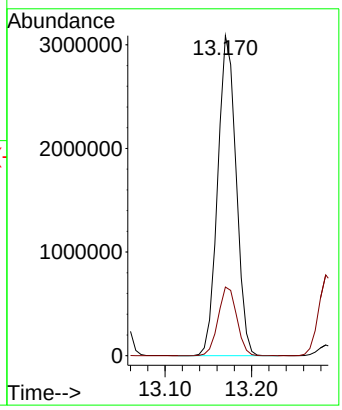




#85
sec-Butylbenzene
Concen: 158.609 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:105 Resp: 456071

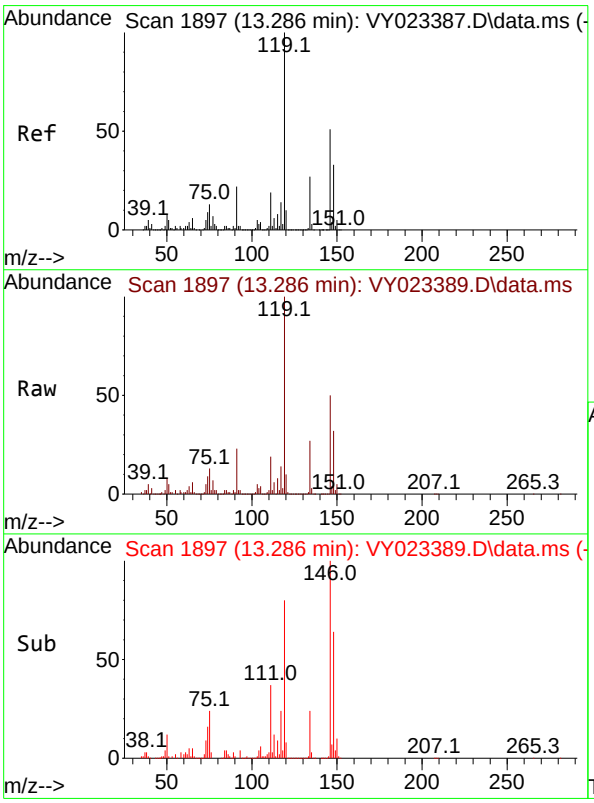
Ion	Ratio	Lower	Upper
105	100		
134	21.6	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

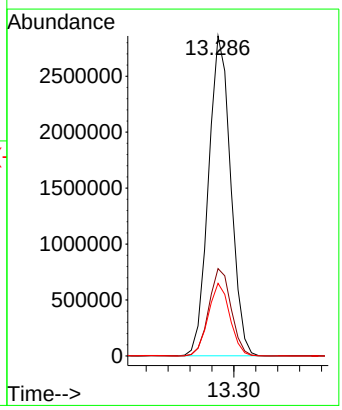
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

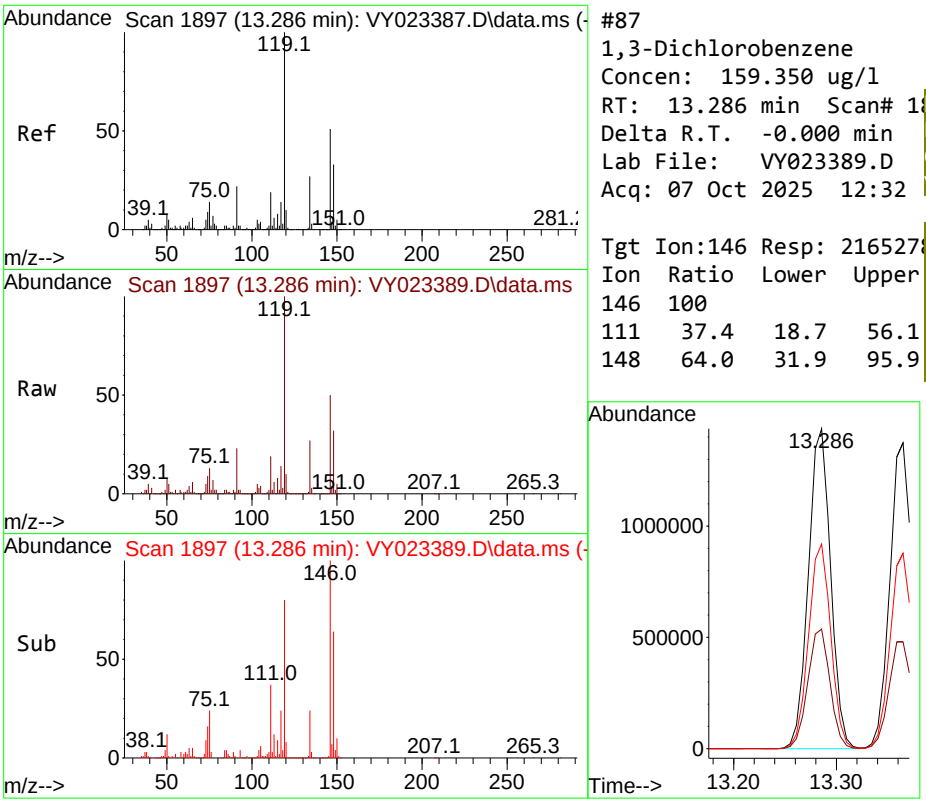


#86
p-Isopropyltoluene
Concen: 165.622 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

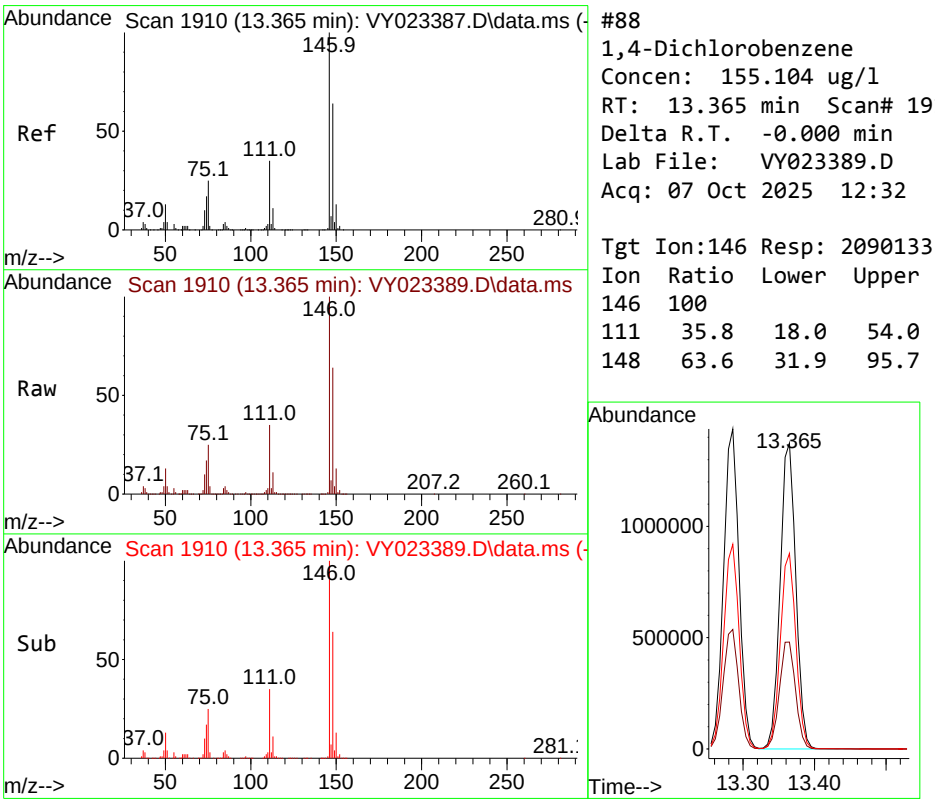
Tgt Ion:146 Resp: 216527

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

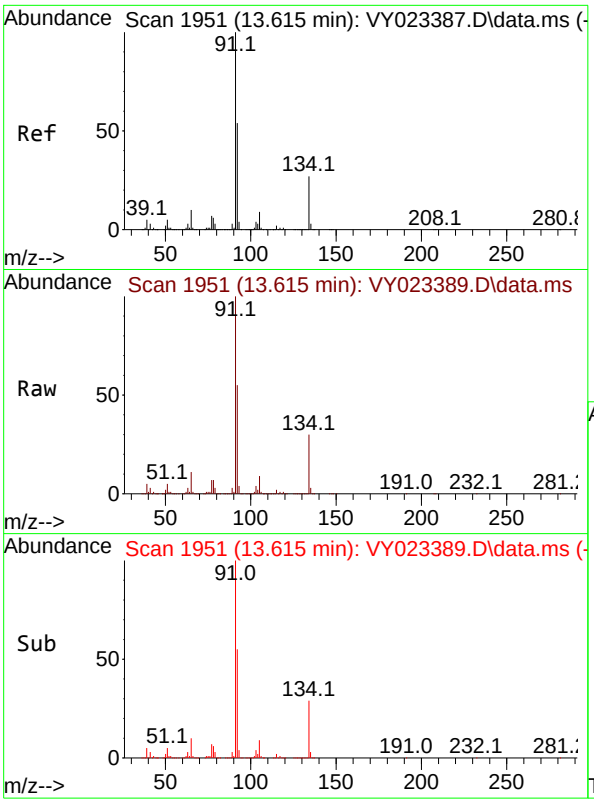
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

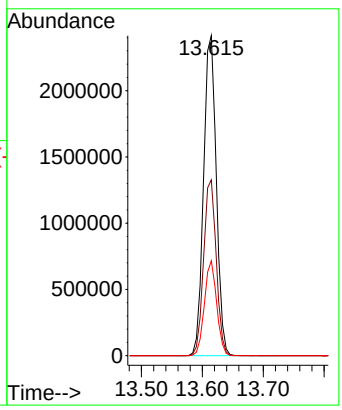
Ion	Ratio	Lower	Upper
146	100		
111	35.8	18.0	54.0
148	63.6	31.9	95.7



#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

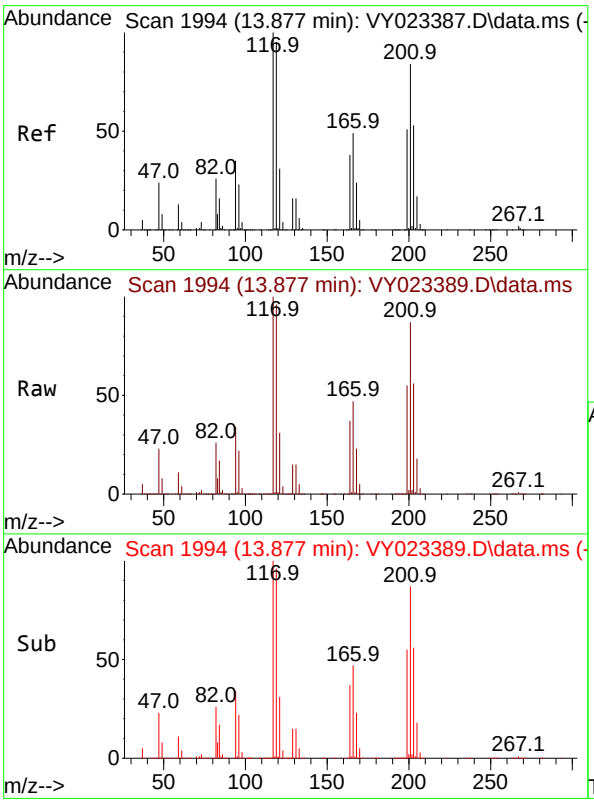
Ion	Ratio	Lower	Upper
91	100		
92	54.6	27.0	80.8
134	28.6	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

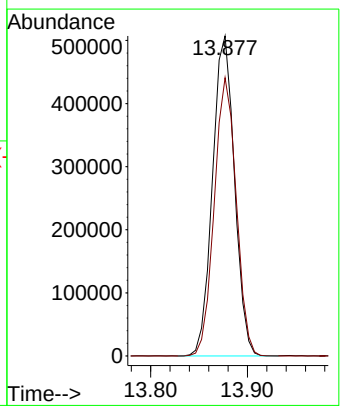
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

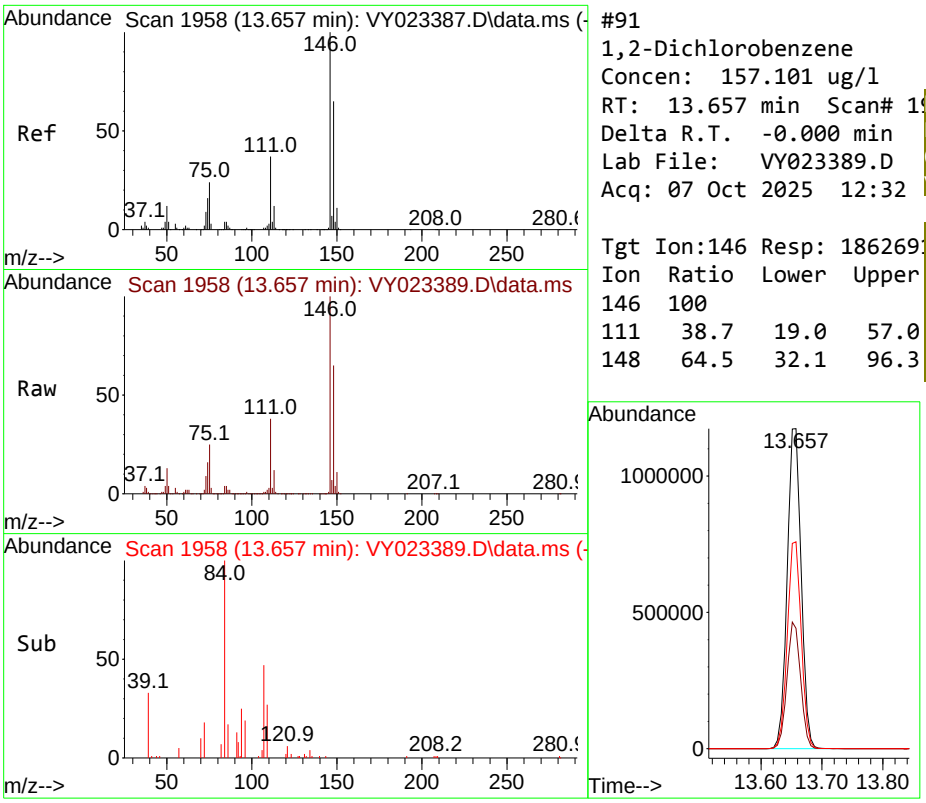


#90
Hexachloroethane
Concen: 151.487 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

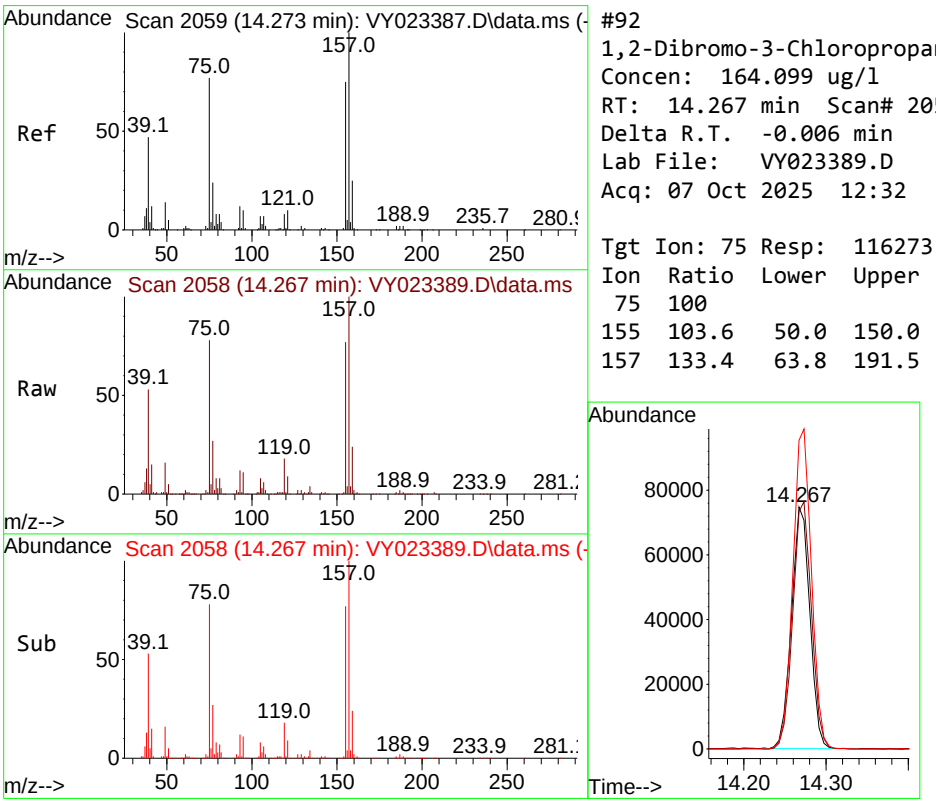
Tgt Ion:146 Resp: 186269

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

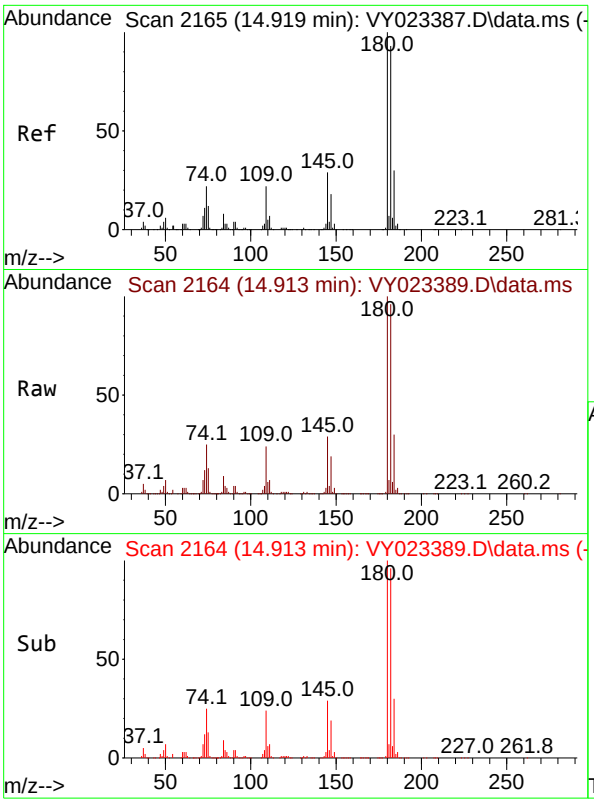
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

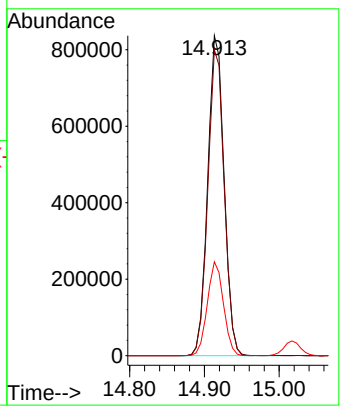
Ion	Ratio	Lower	Upper
75	100		
155	103.6	50.0	150.0
157	133.4	63.8	191.5



#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

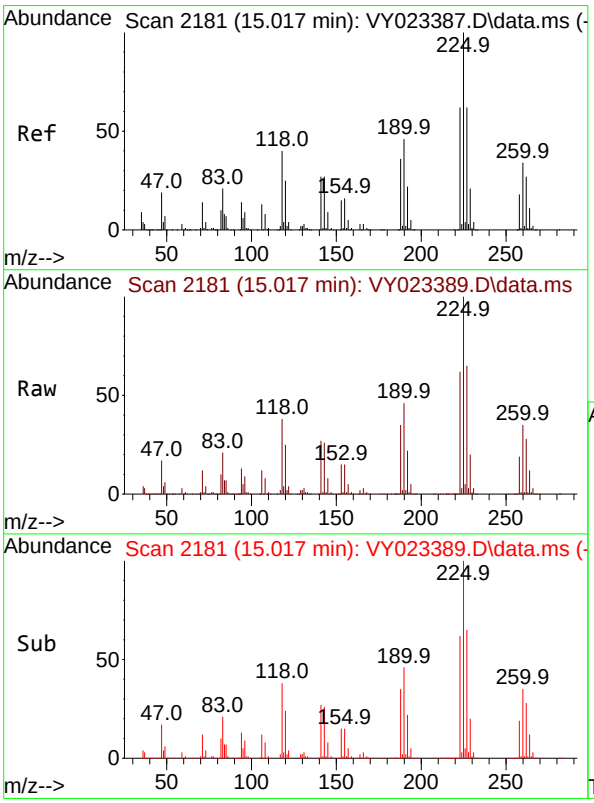
Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.9	143.6
145	28.9	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

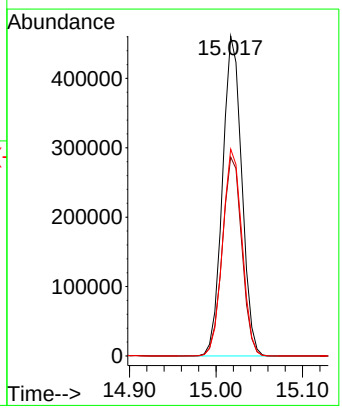
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

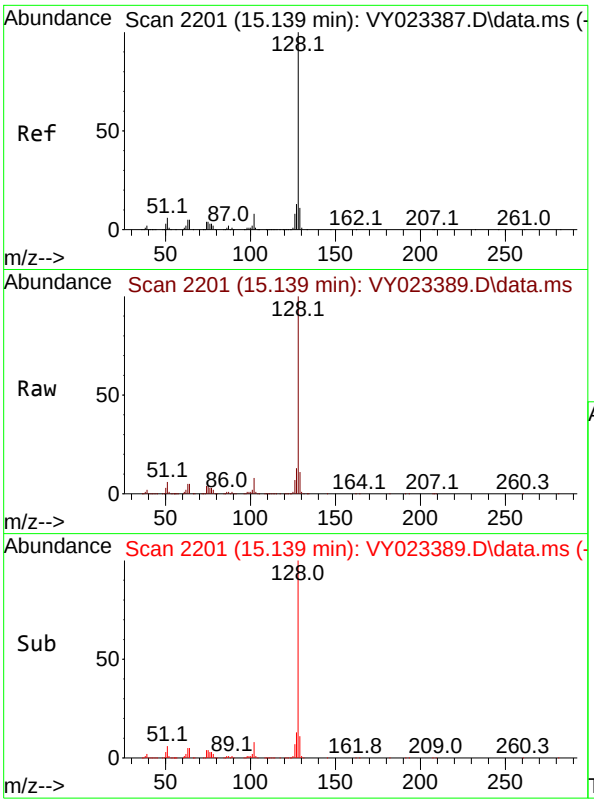


#94
Hexachlorobutadiene
Concen: 163.518 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

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

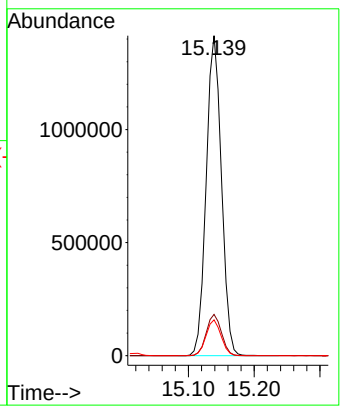




#95
Naphthalene
Concen: 204.639 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023389.D
Acq: 07 Oct 2025 12:32

Tgt Ion:128 Resp: 227754

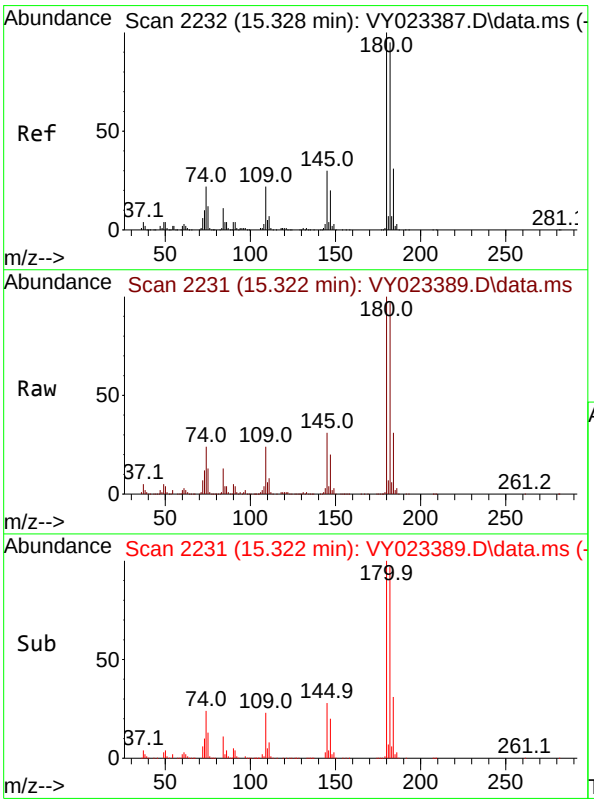
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.1	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

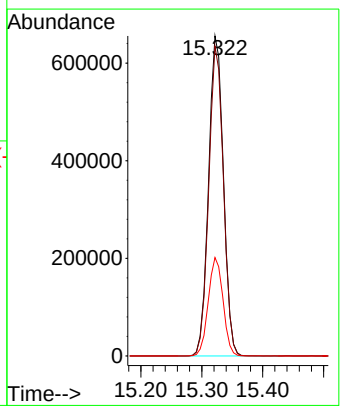
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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



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)
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

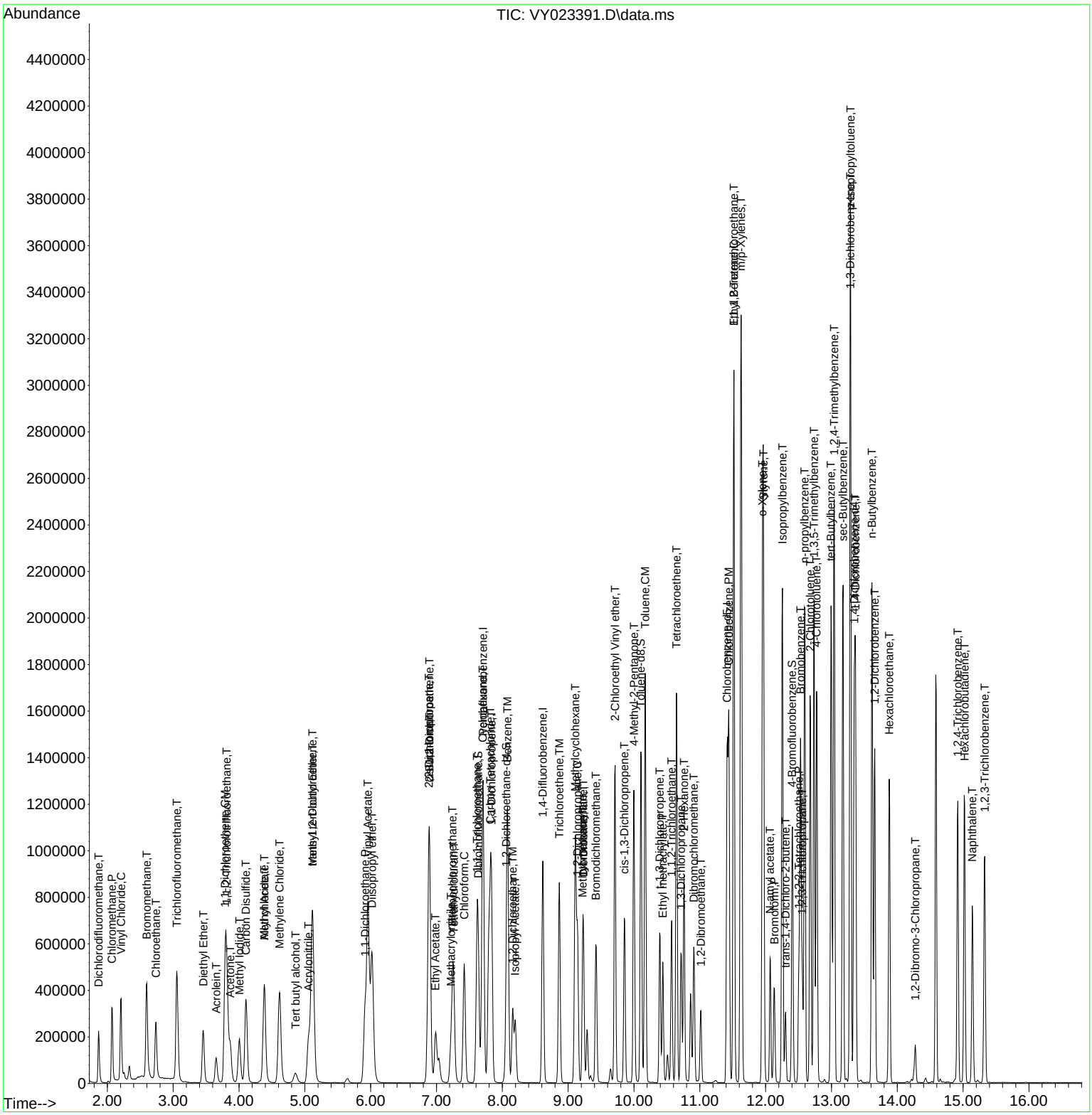
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023391.D
Acq On : 07 Oct 2025 14:12
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

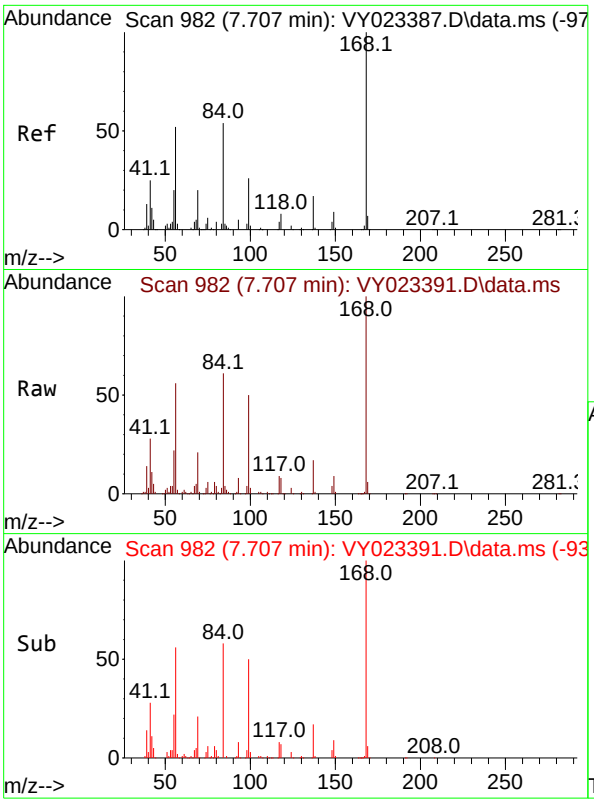
Quant Time: Oct 08 05:15:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

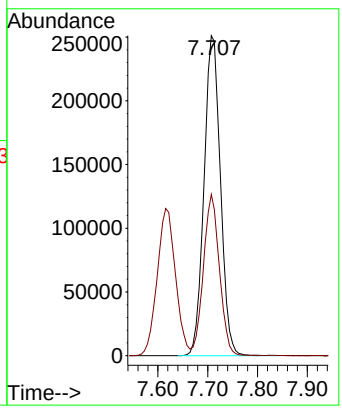




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:168 Resp: 57433

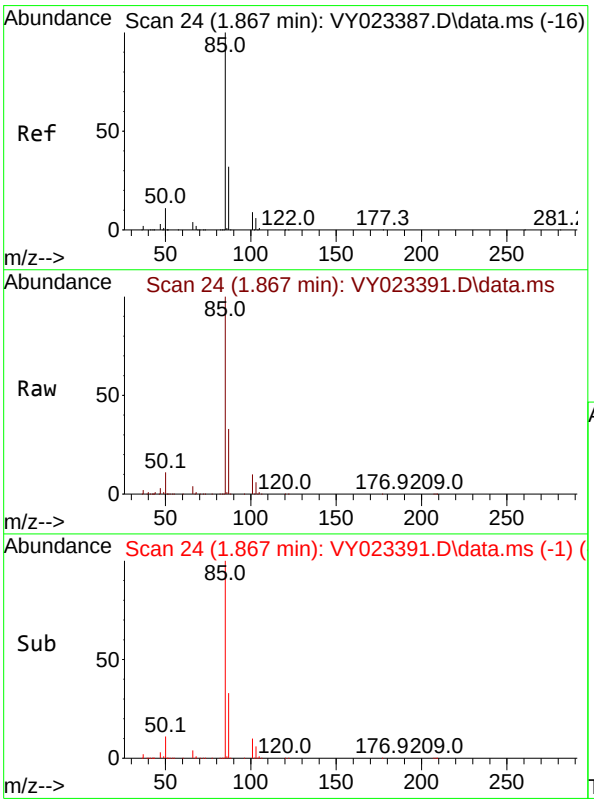
Ion	Ratio	Lower	Upper
168	100		
99	50.4	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

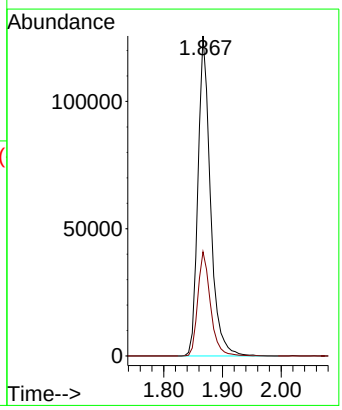
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

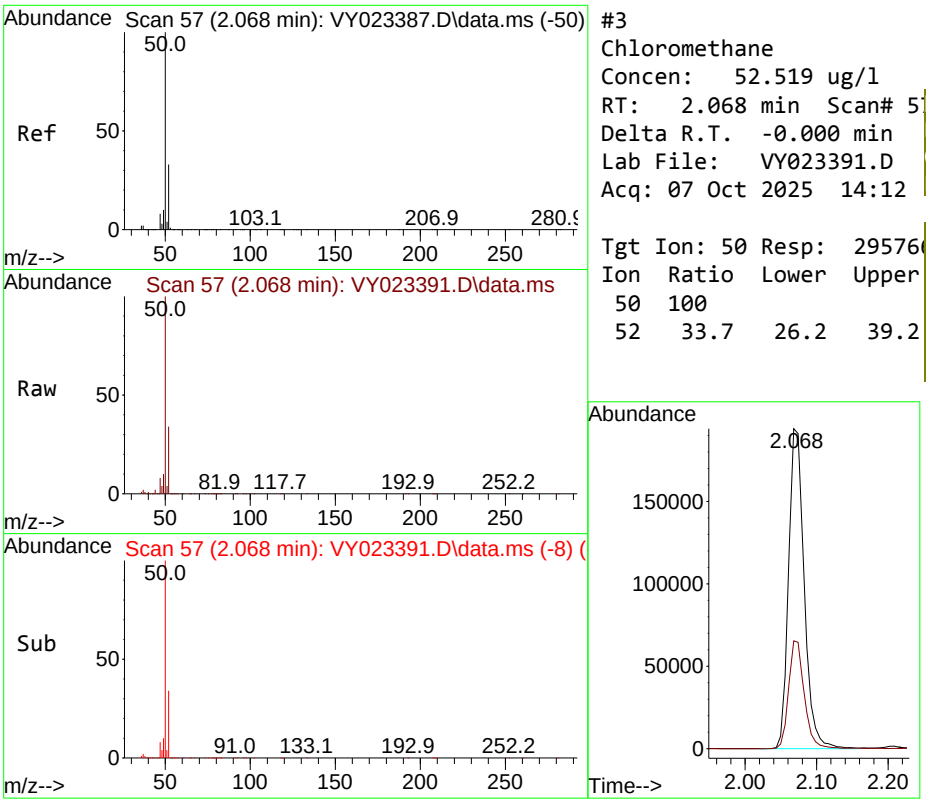


#2
Dichlorodifluoromethane
Concen: 44.916 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

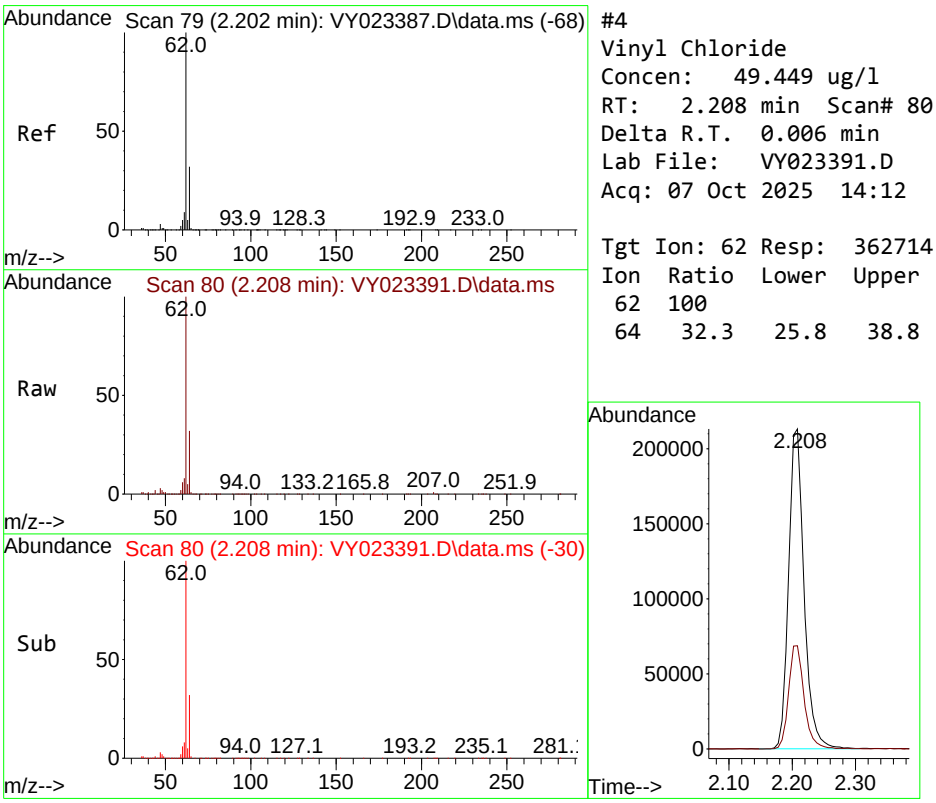
Tgt Ion: 50 Resp: 29576

Ion	Ratio	Lower	Upper
50	100		
52	33.7	26.2	39.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

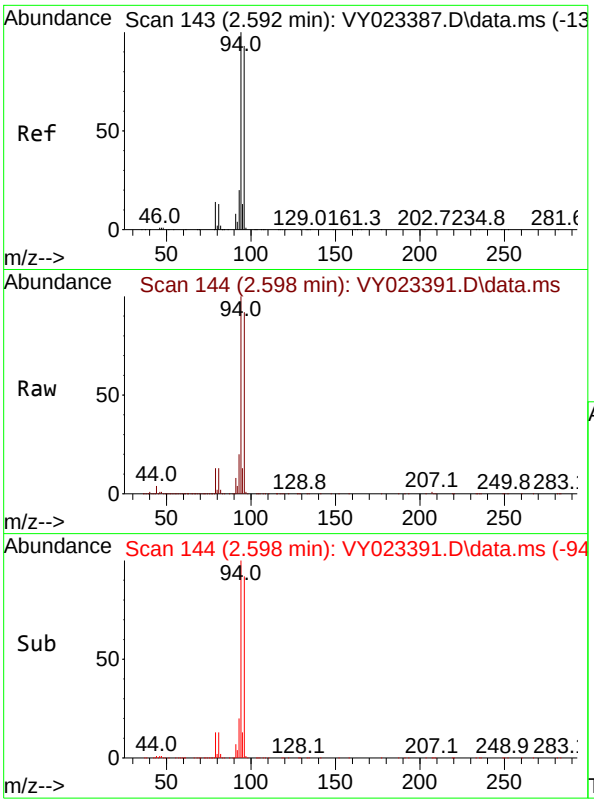
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

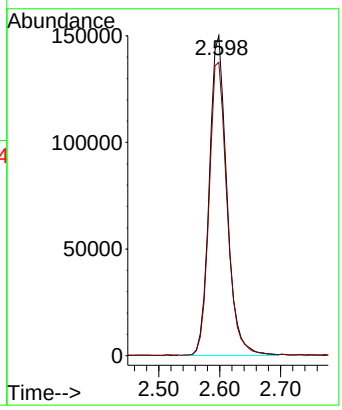
Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.8	38.8



#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

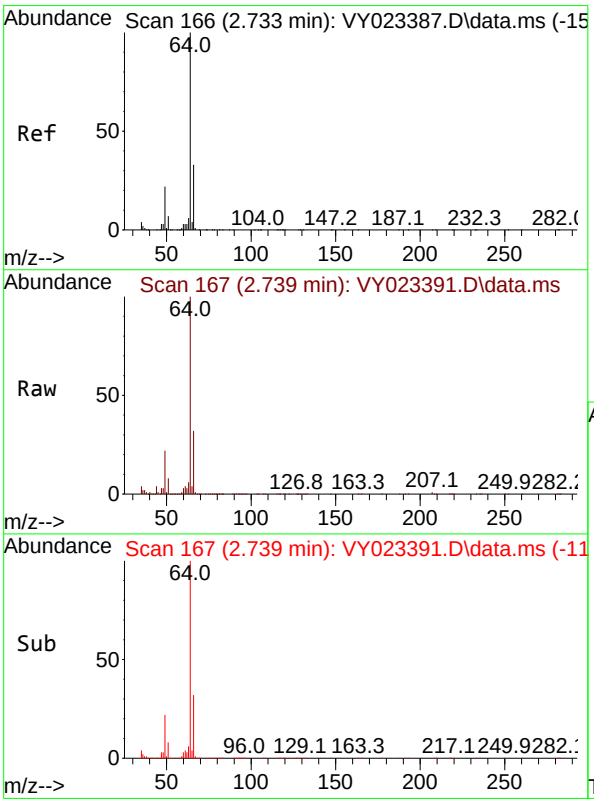
Ion	Ratio	Lower	Upper
94	100		
96	91.5	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

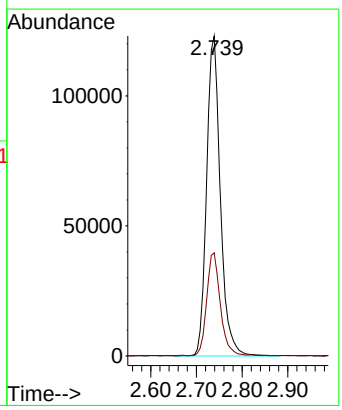
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

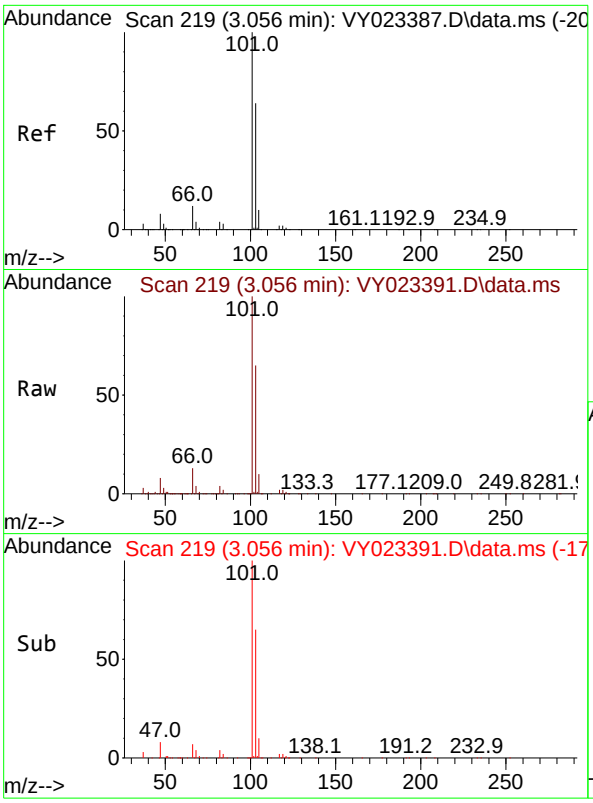


#6
Chloroethane
Concen: 51.367 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 64 Resp: 256831

Ion	Ratio	Lower	Upper
64	100		
66	32.1	26.2	39.4

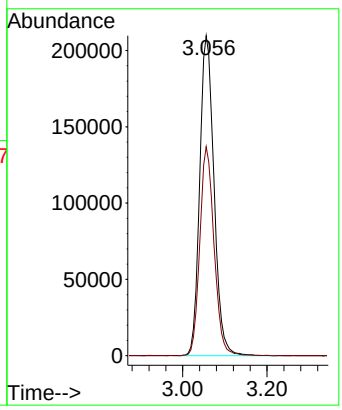




#7
Trichlorofluoromethane
Concen: 48.582 ug/l
RT: 3.056 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:101 Resp: 49478

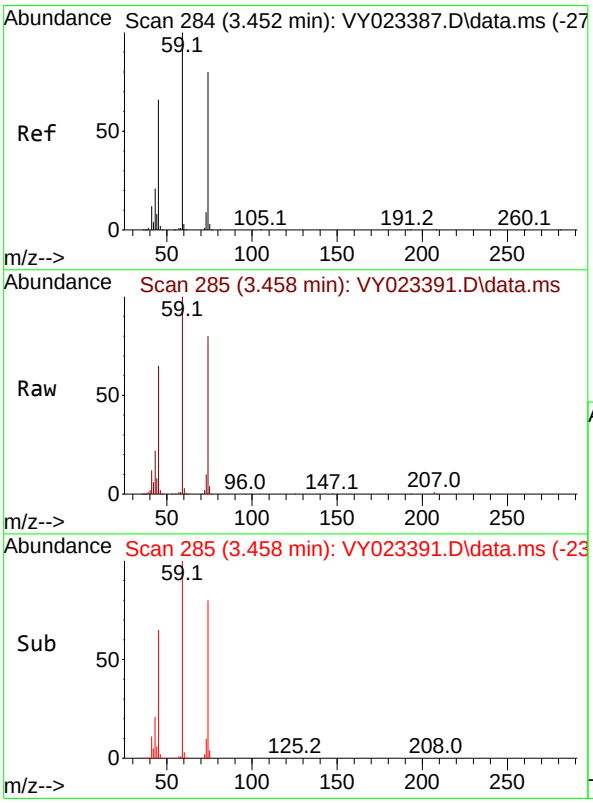
Ion	Ratio	Lower	Upper
101	100		
103	65.3	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

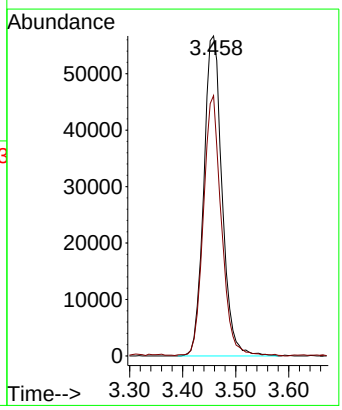
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

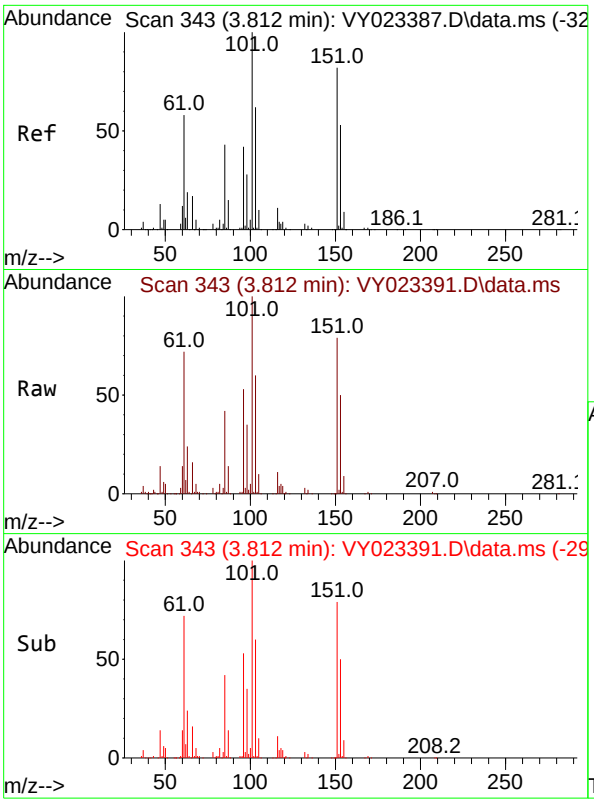


#8
Diethyl Ether
Concen: 51.050 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

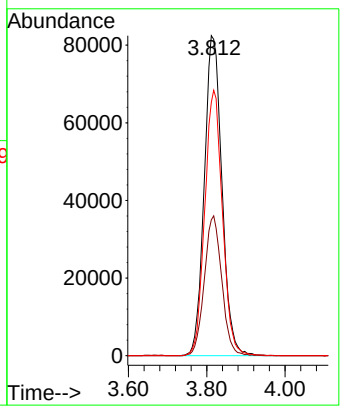
Tgt Ion:101 Resp: 25752

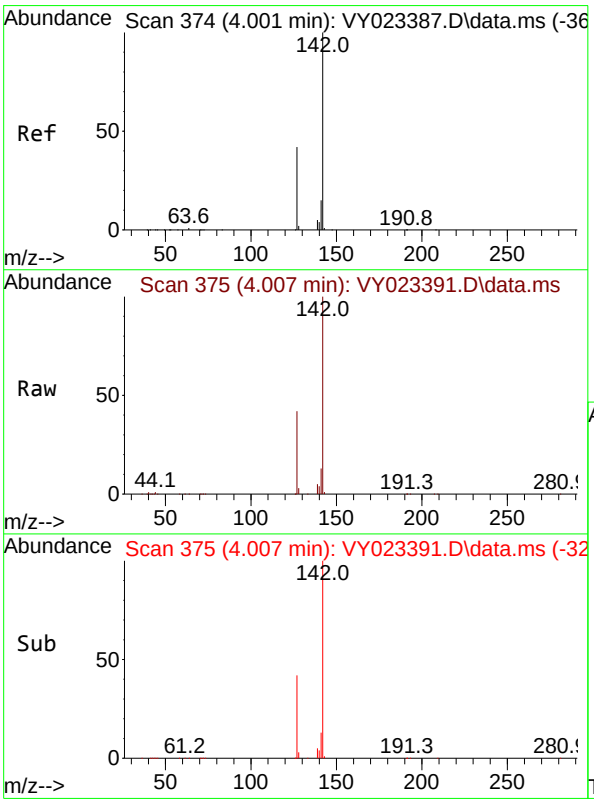
Ion	Ratio	Lower	Upper
101	100		
85	43.2	34.6	51.8
151	83.2	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

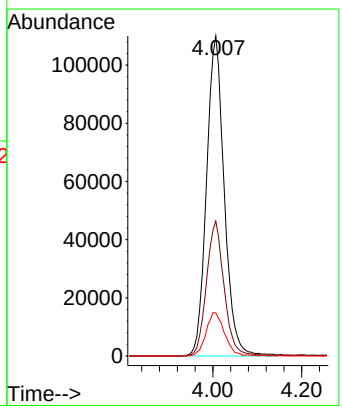


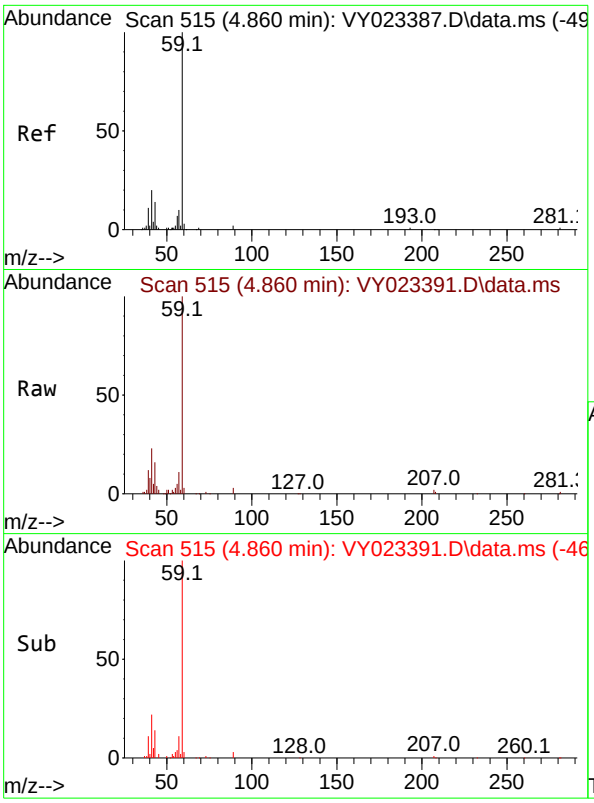


#10
Methyl Iodide
Concen: 51.875 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

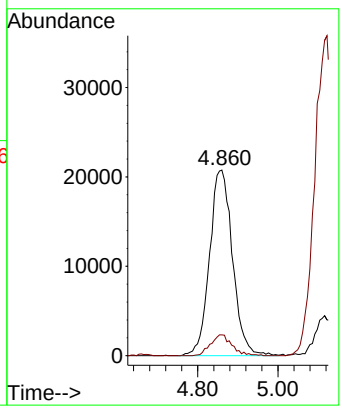




#11
Tert butyl alcohol
Concen: 231.079 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 59 Resp: 8256

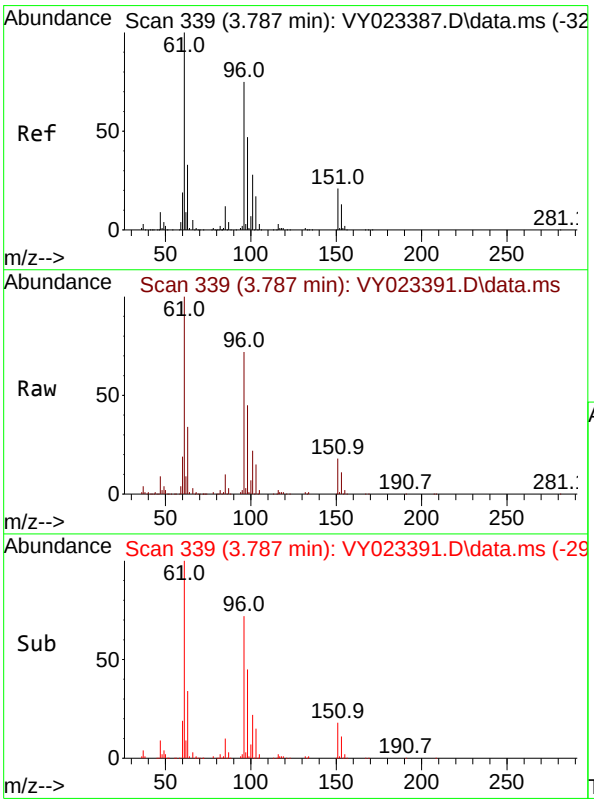
Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

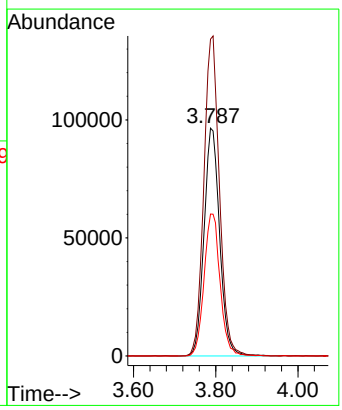
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

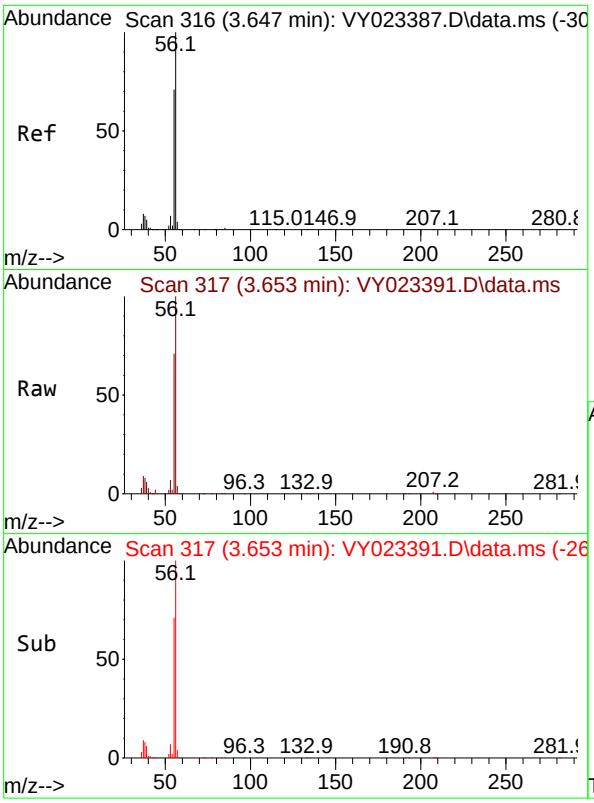


#12
1,1-Dichloroethene
Concen: 49.653 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

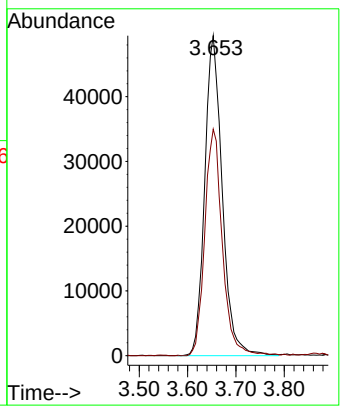




#13
Acrolein
Concen: 246.184 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 56 Resp: 12428

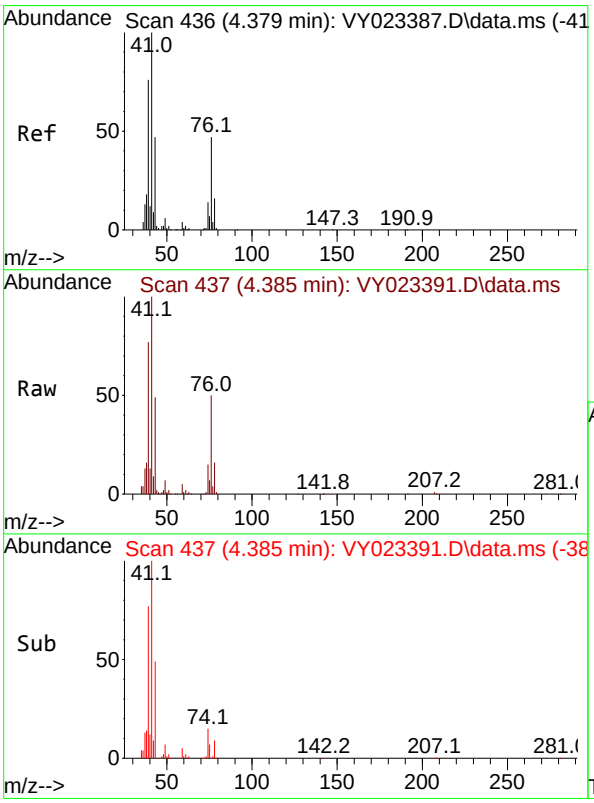
Ion	Ratio	Lower	Upper
56	100		
55	71.1	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

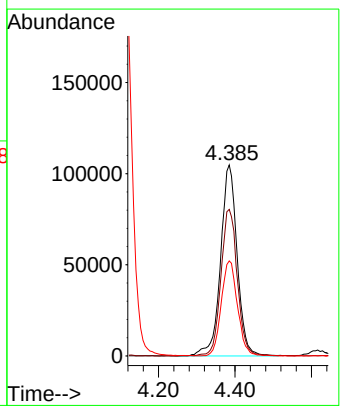
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

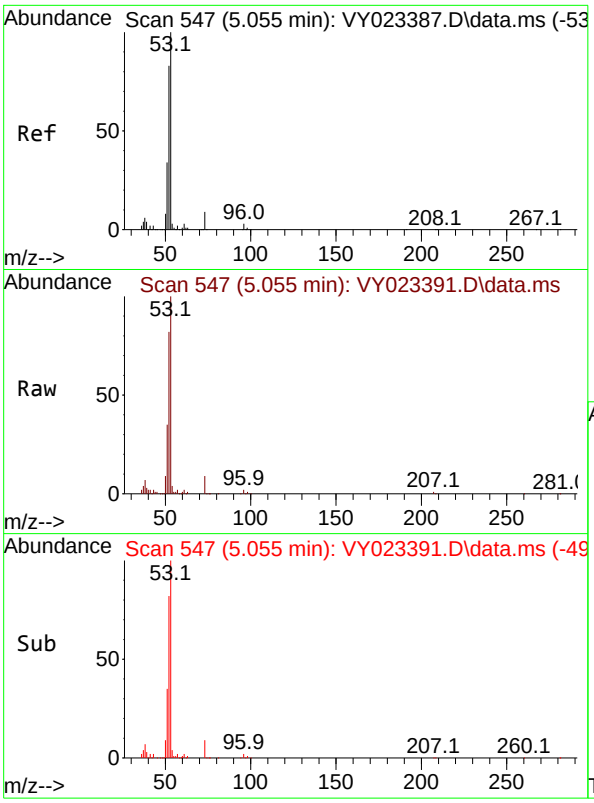


#14
Allyl chloride
Concen: 50.645 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

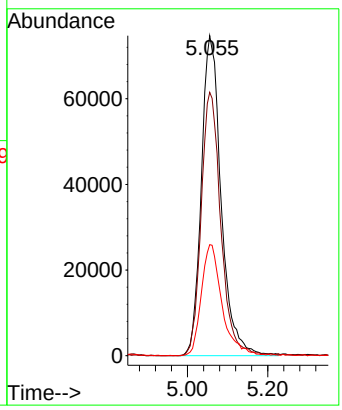




#15
Acrylonitrile
Concen: 251.575 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 53 Resp: 25621

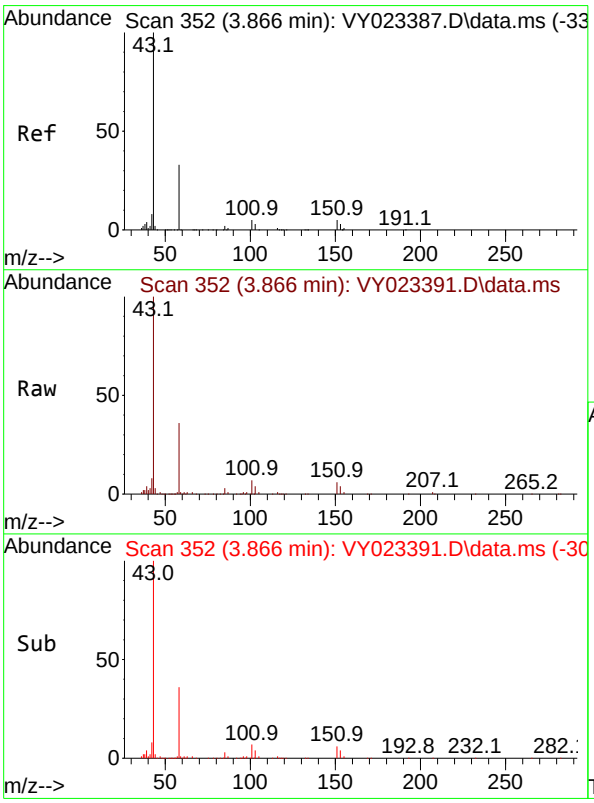
Ion	Ratio	Lower	Upper
53	100		
52	81.7	64.6	97.0
51	36.4	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

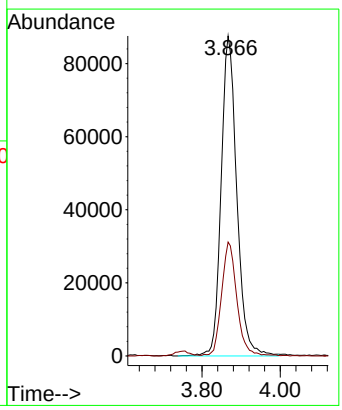
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

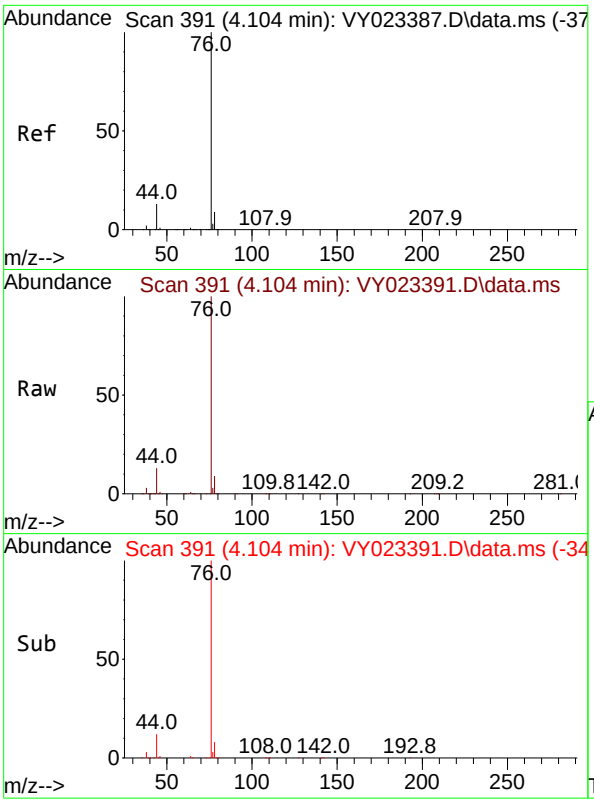


#16
Acetone
Concen: 212.910 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 243433

Ion	Ratio	Lower	Upper
43	100		
58	35.5	27.7	41.5

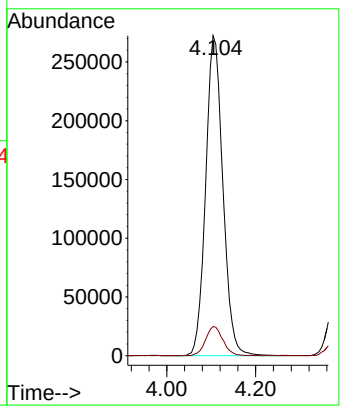




#17
Carbon Disulfide
Concen: 50.021 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 76 Resp: 73345

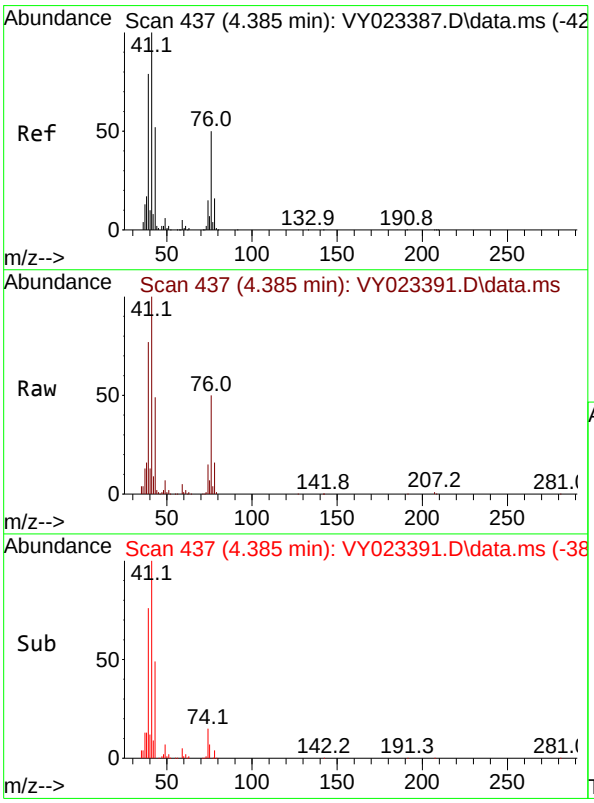
Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

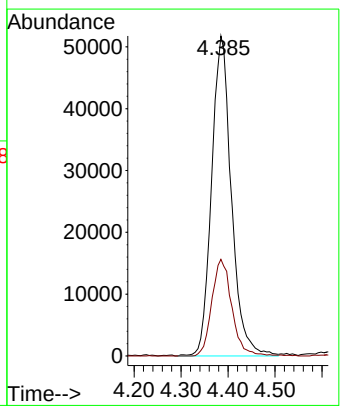
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

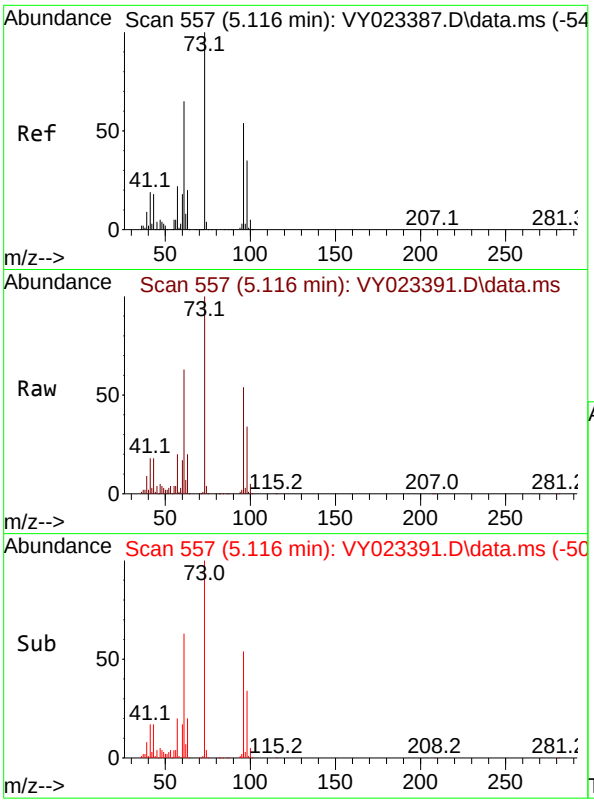


#18
Methyl Acetate
Concen: 50.439 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 151281

Ion	Ratio	Lower	Upper
43	100		
74	30.5	24.2	36.4

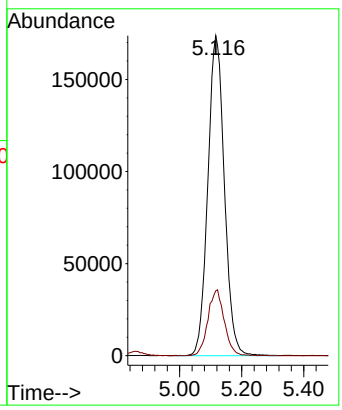




#19
Methyl tert-butyl Ether
Concen: 52.230 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 73 Resp: 64311

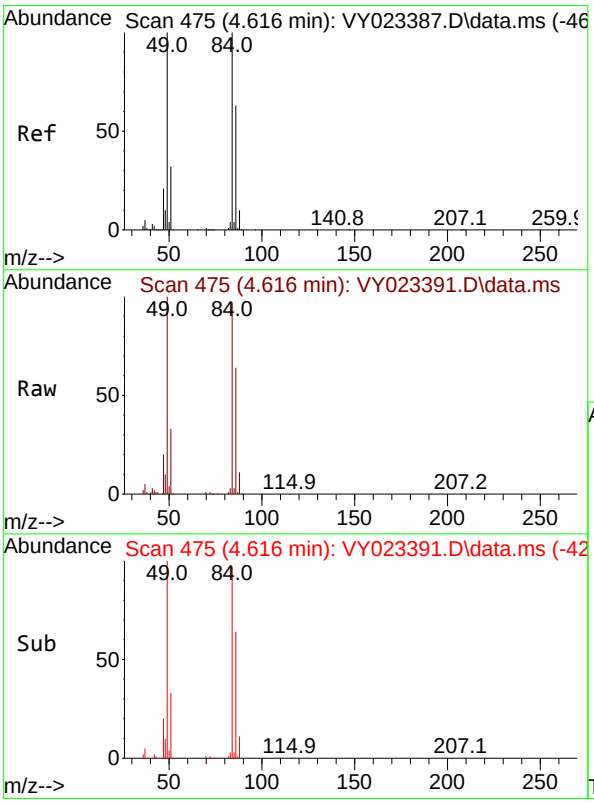
Ion	Ratio	Lower	Upper
73	100		
57	20.3	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

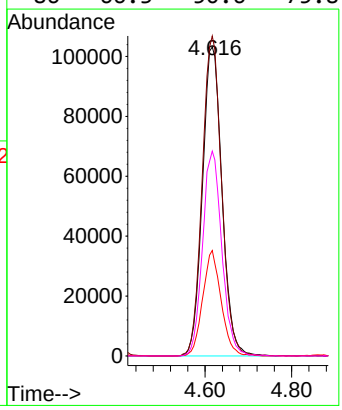
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

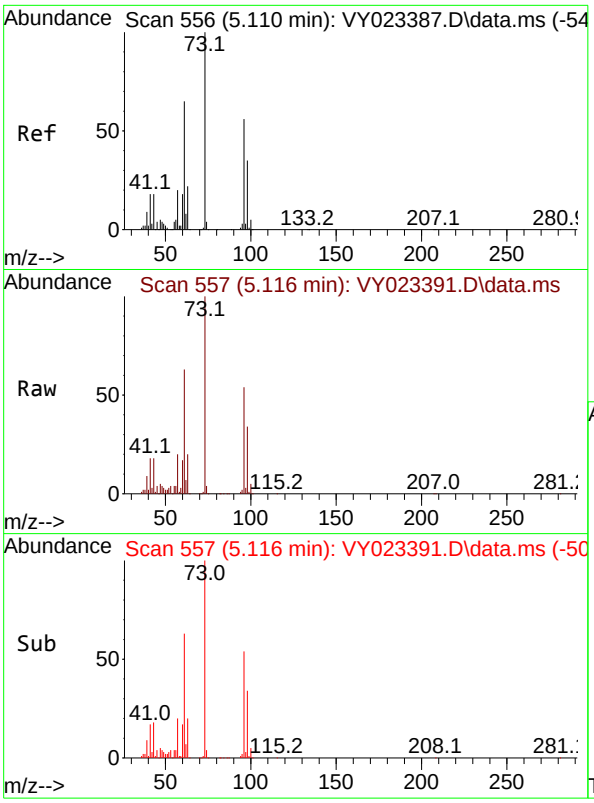


#20
Methylene Chloride
Concen: 52.503 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

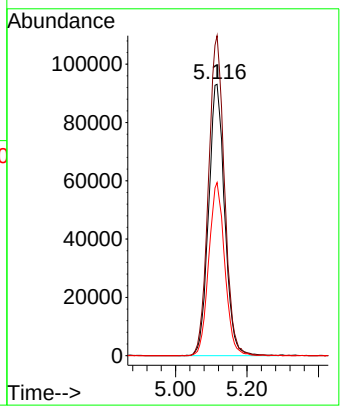




#21
trans-1,2-Dichloroethene
Concen: 51.482 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 96 Resp: 29038

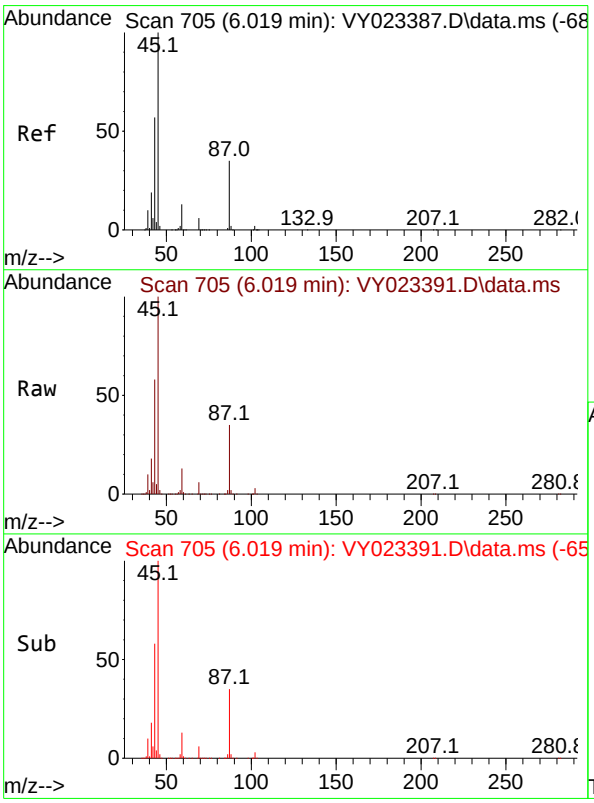
Ion	Ratio	Lower	Upper
96	100		
61	117.9	92.7	139.1
98	63.8	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

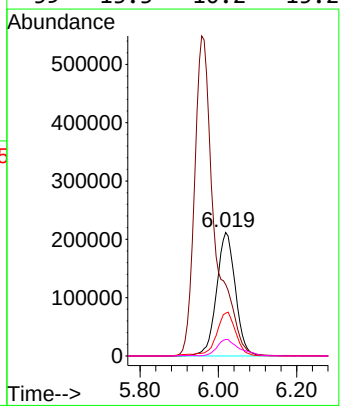
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

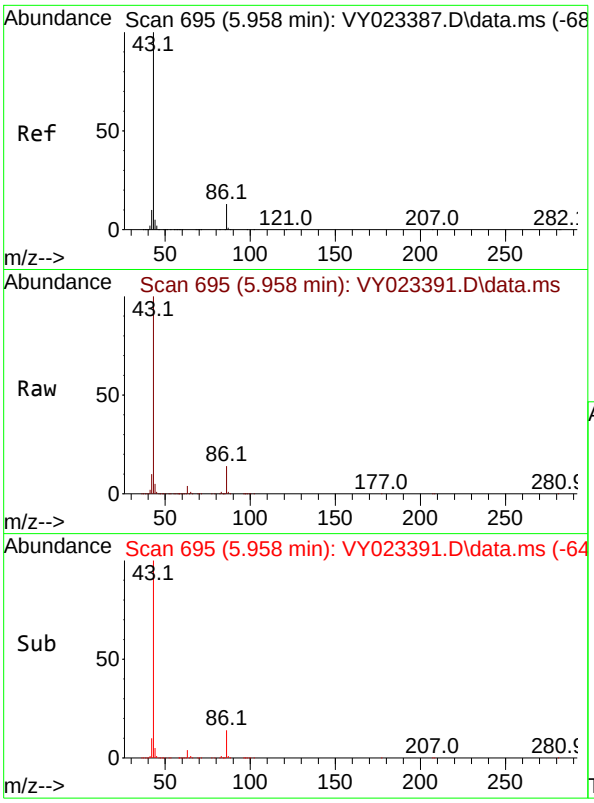


#22
Diisopropyl ether
Concen: 51.364 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

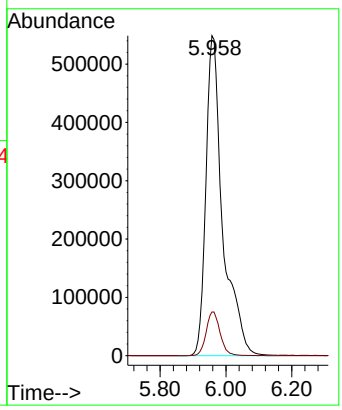




#23
Vinyl Acetate
Concen: 260.981 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 195096

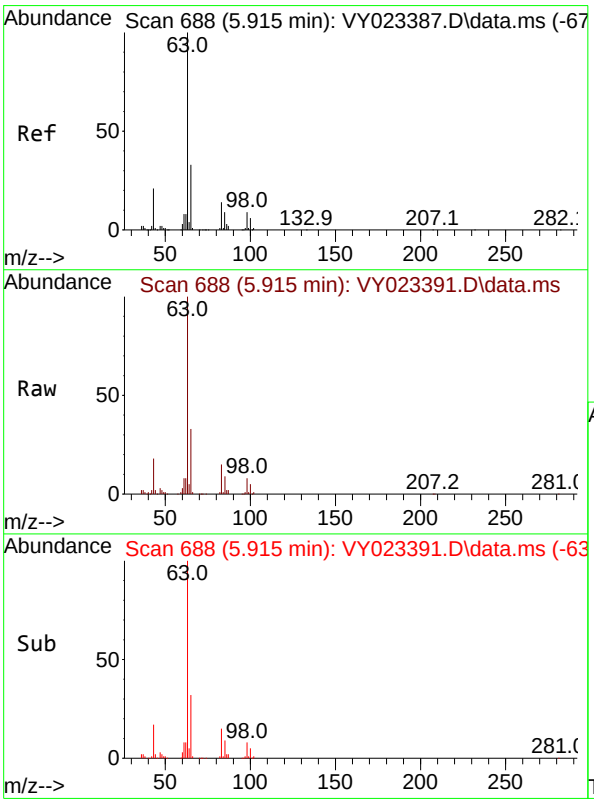
Ion	Ratio	Lower	Upper
43	100		
86	13.7	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

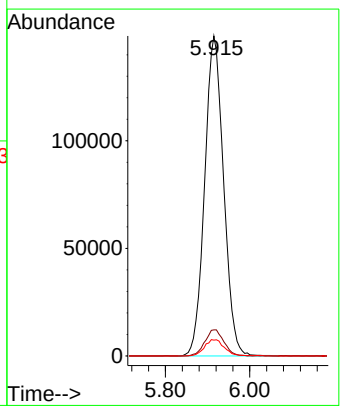
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

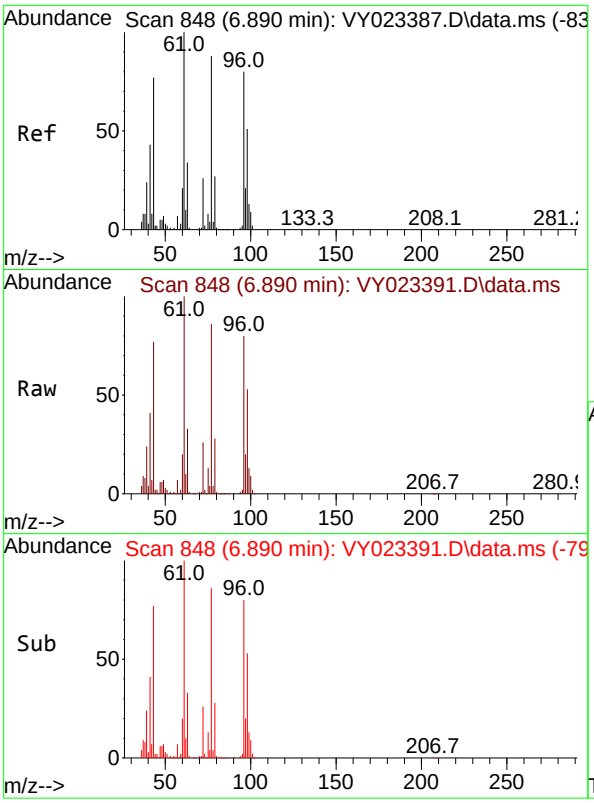


#24
1,1-Dichloroethane
Concen: 50.742 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

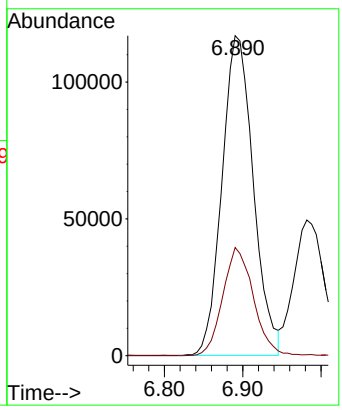
Tgt Ion: 43 Resp: 32535

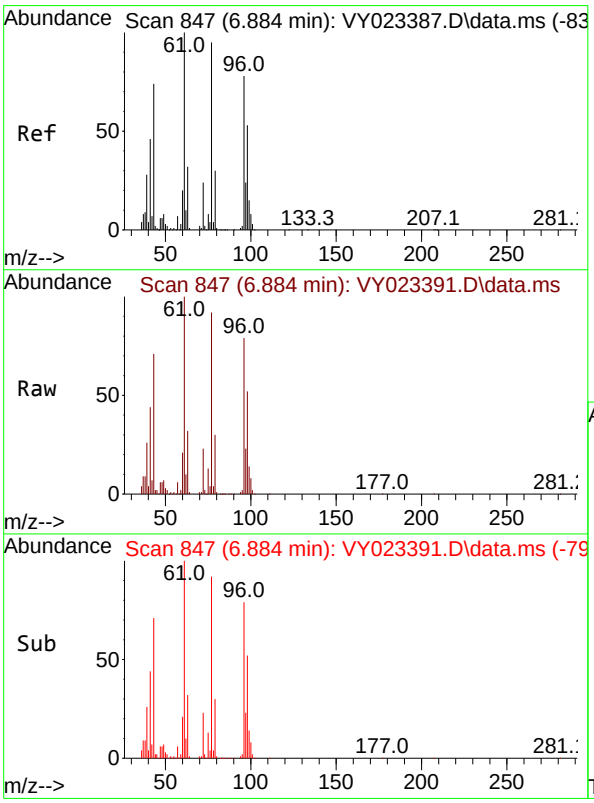
Ion	Ratio	Lower	Upper
43	100		
72	33.8	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

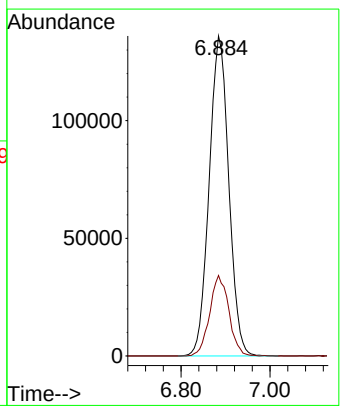


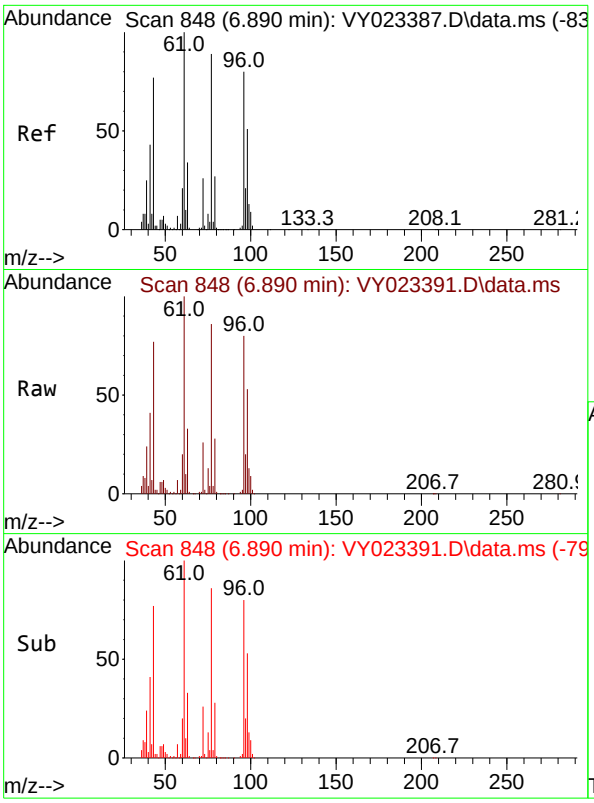


#26
2,2-Dichloropropane
Concen: 49.626 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

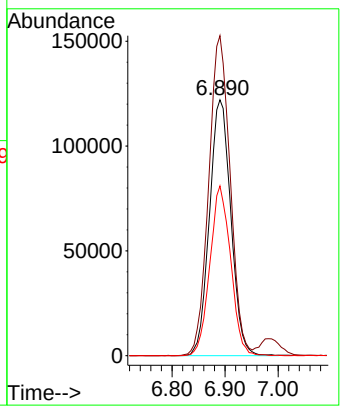
Tgt Ion: 96 Resp: 34196

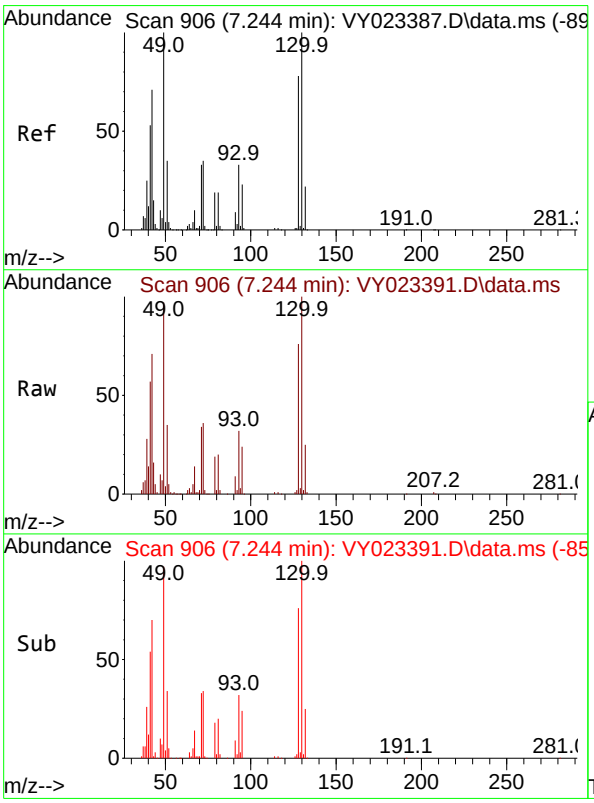
Ion	Ratio	Lower	Upper
96	100		
61	125.5	0.0	258.2
98	64.3	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

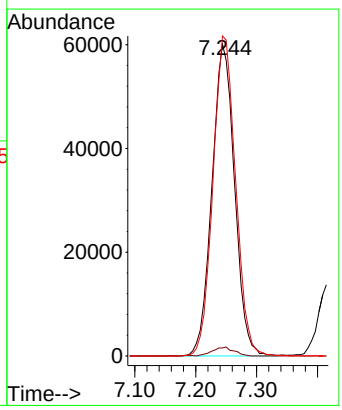


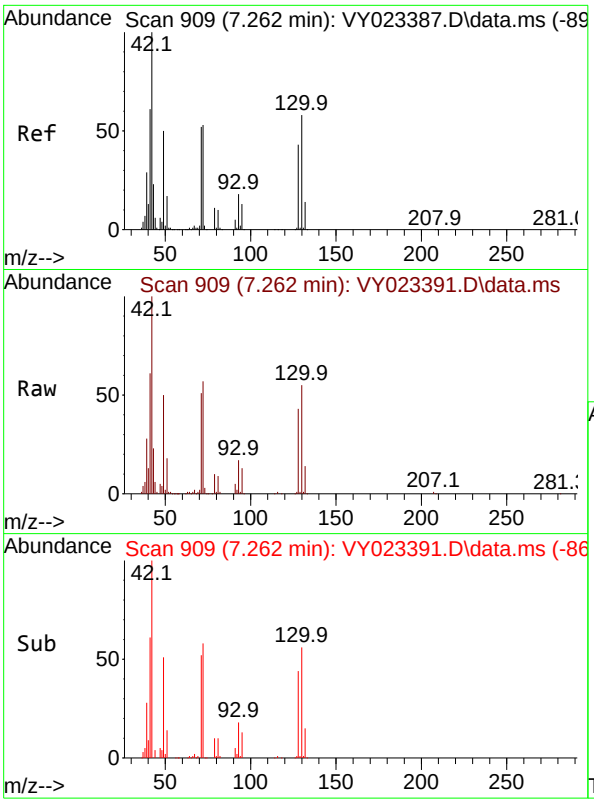


#28
Bromochloromethane
Concen: 45.427 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

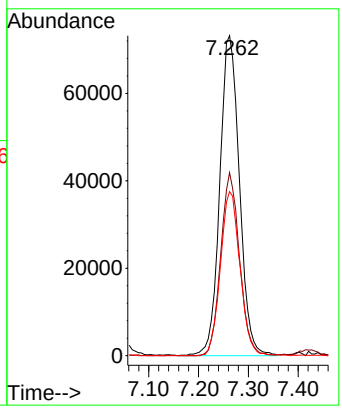




#29
Tetrahydrofuran
Concen: 253.317 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 42 Resp: 20051

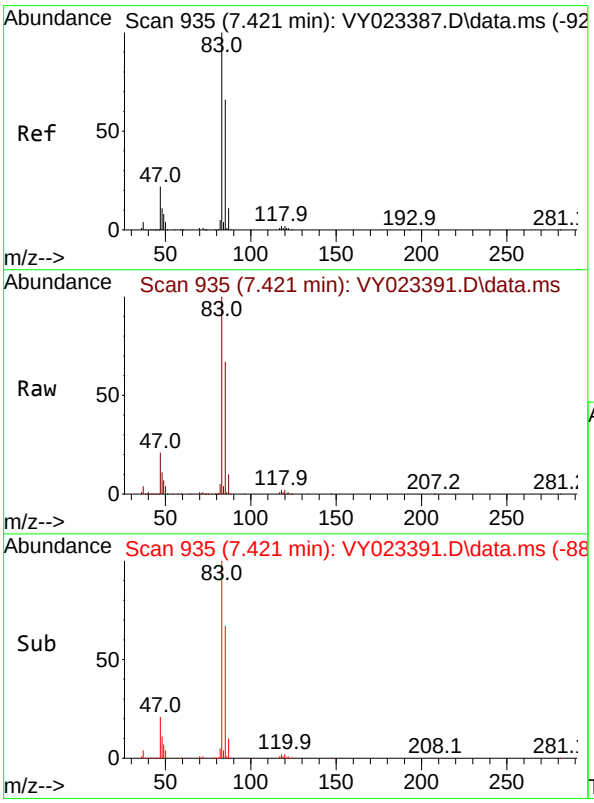
Ion	Ratio	Lower	Upper
42	100		
72	54.6	43.0	64.6
71	51.1	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

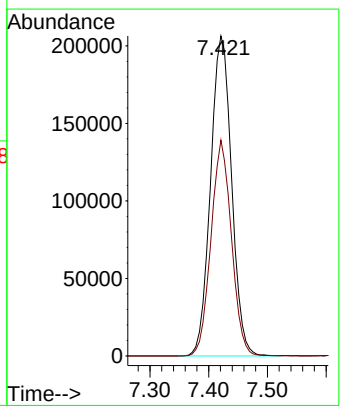
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

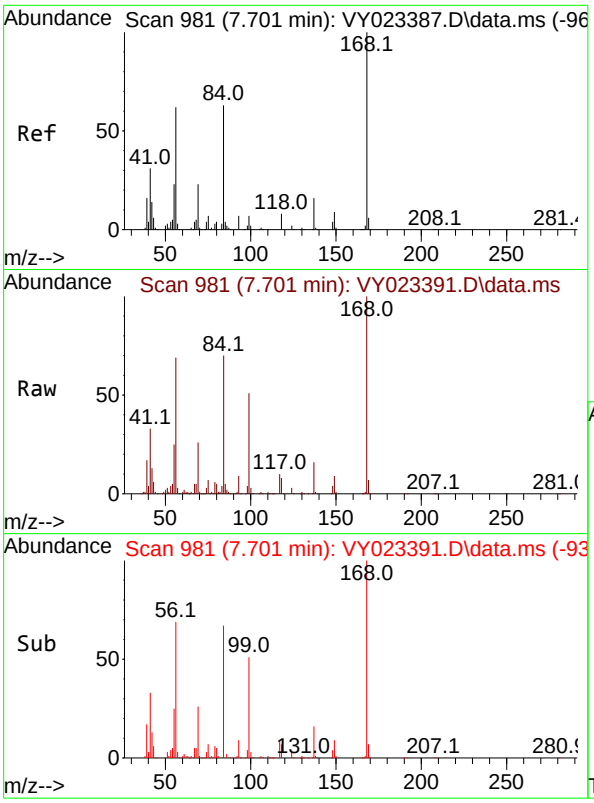


#30
Chloroform
Concen: 51.137 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 83 Resp: 513997

Ion	Ratio	Lower	Upper
83	100		
85	67.5	52.5	78.7

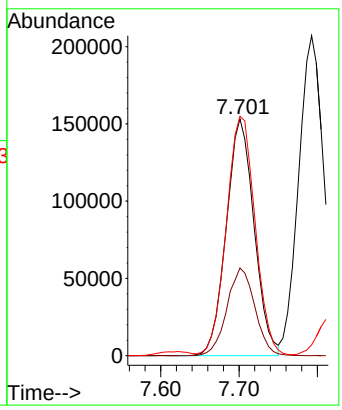




#31
Cyclohexane
Concen: 47.416 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 56 Resp: 37881

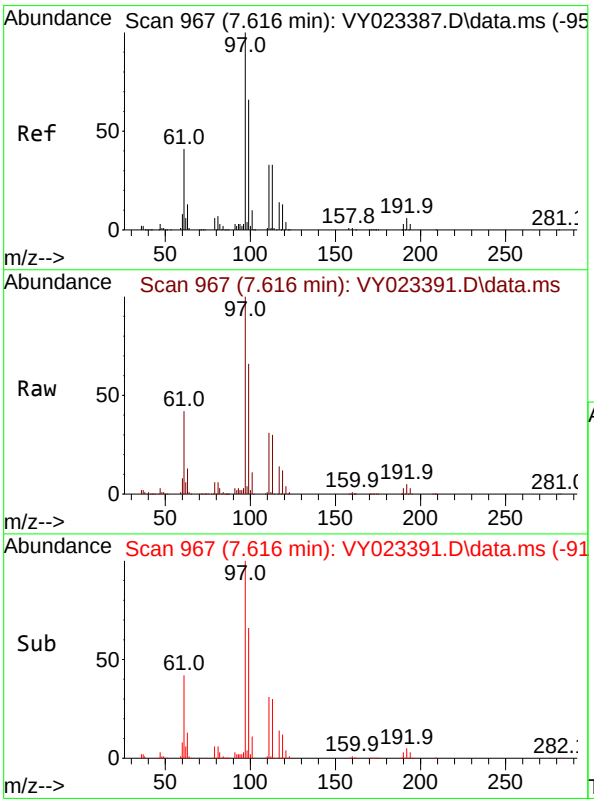
Ion	Ratio	Lower	Upper
56	100		
69	37.1	30.0	45.0
84	99.4	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

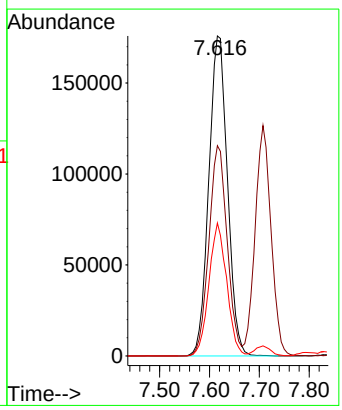
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

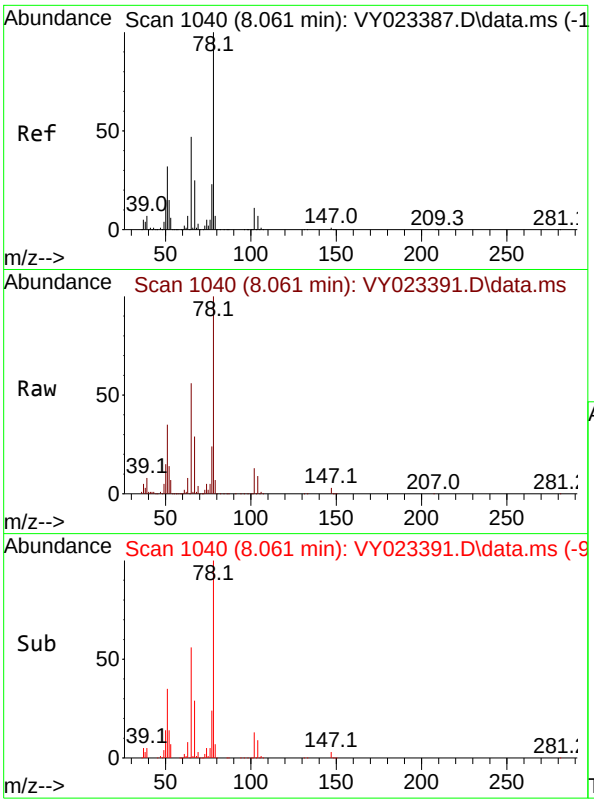


#32
1,1,1-Trichloroethane
Concen: 49.934 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

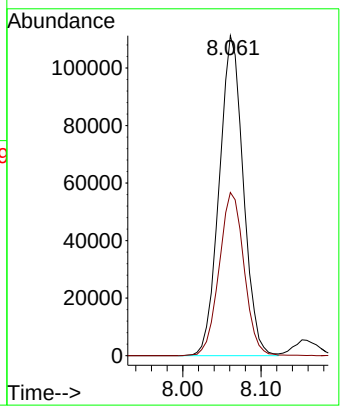




#33
1,2-Dichloroethane-d4
Concen: 49.450 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 65 Resp: 23749

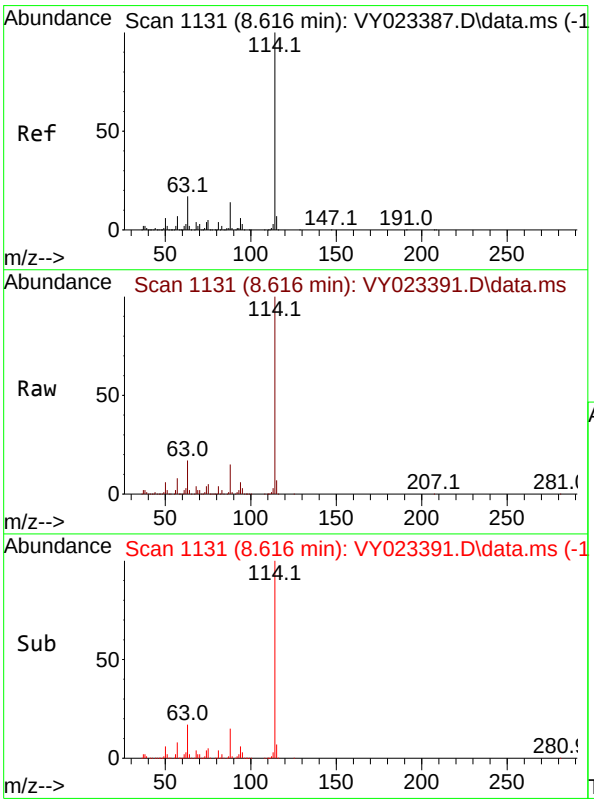
Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

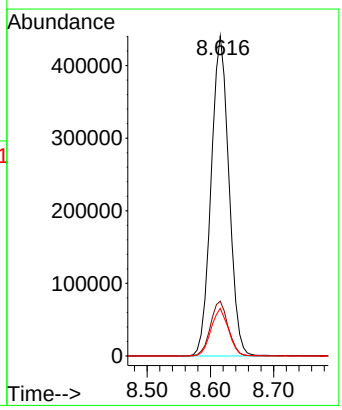
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

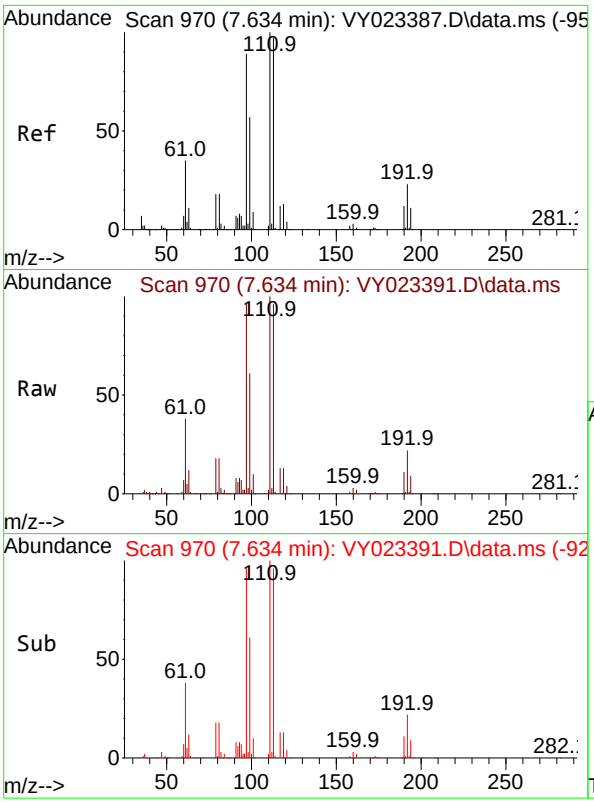


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

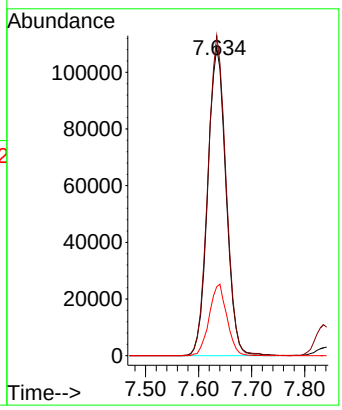




#35
Dibromofluoromethane
Concen: 49.116 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:113 Resp: 26003

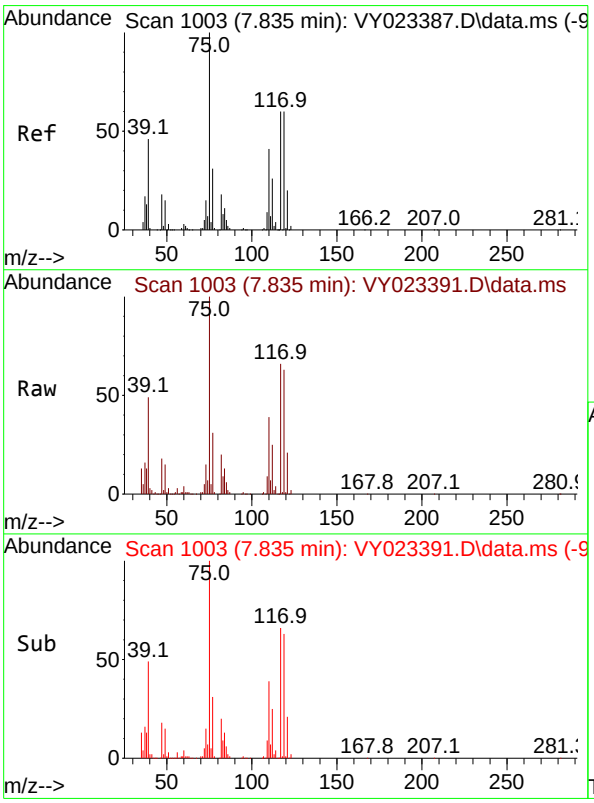
Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.8	122.6
192	22.5	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

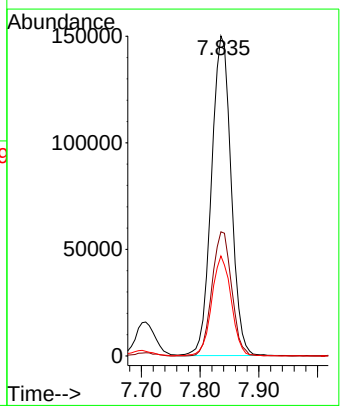
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

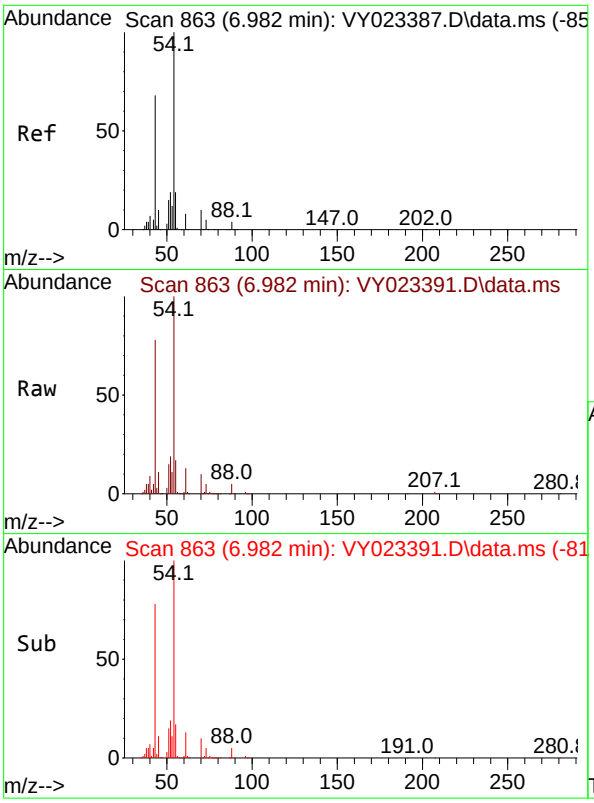


#36
1,1-Dichloropropene
Concen: 49.761 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

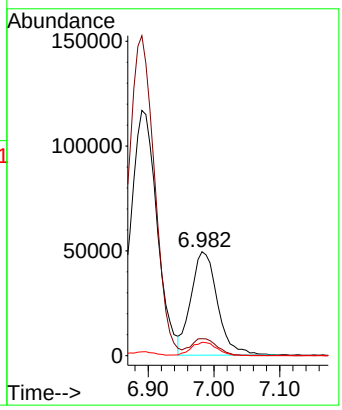
Tgt Ion: 43 Resp: 13811

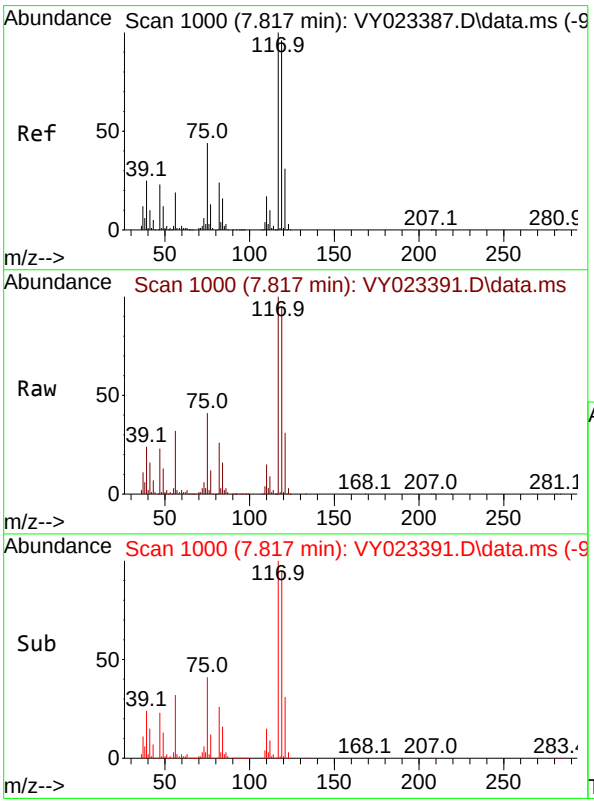
Ion	Ratio	Lower	Upper
43	100		
61	15.8	11.8	17.8
70	12.7	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

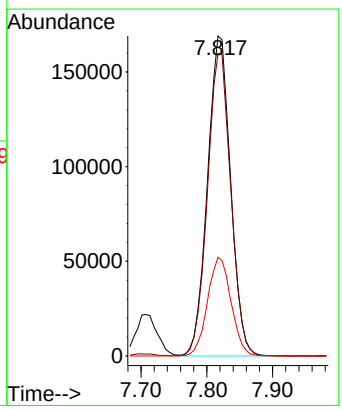


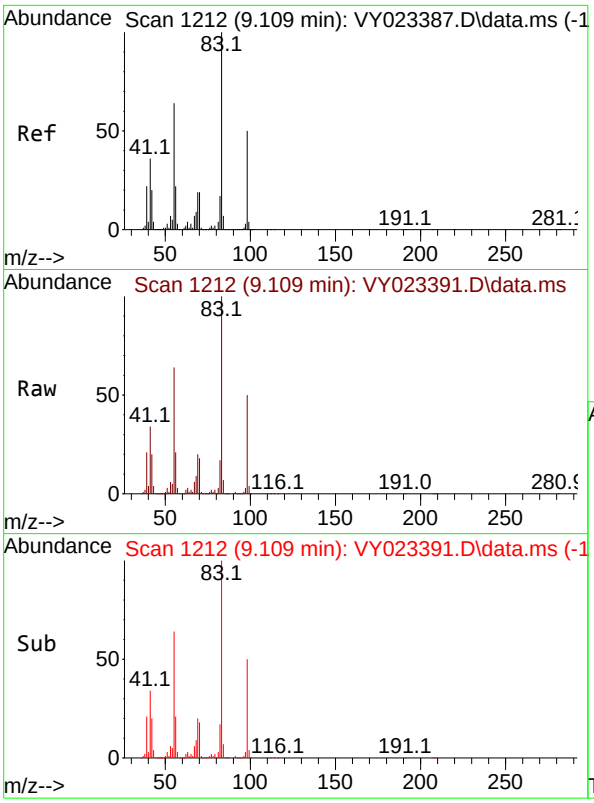


#38
Carbon Tetrachloride
Concen: 48.671 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

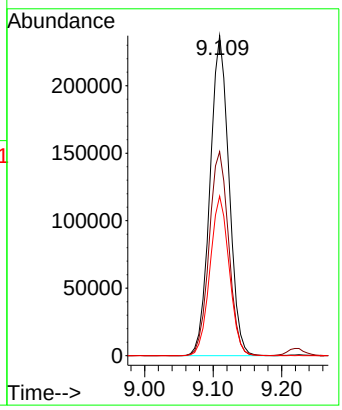




#39
Methylcyclohexane
Concen: 49.970 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 83 Resp: 45603

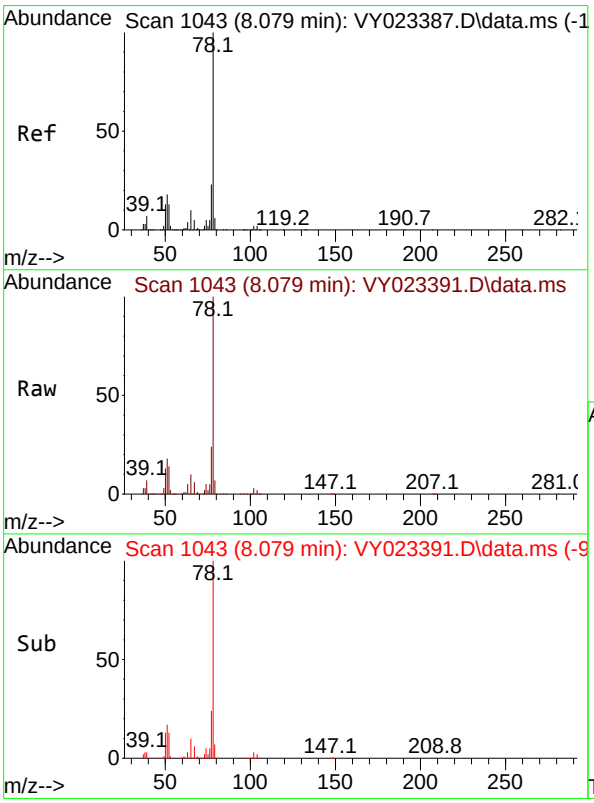
Ion	Ratio	Lower	Upper
83	100		
55	63.8	51.4	77.2
98	49.9	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

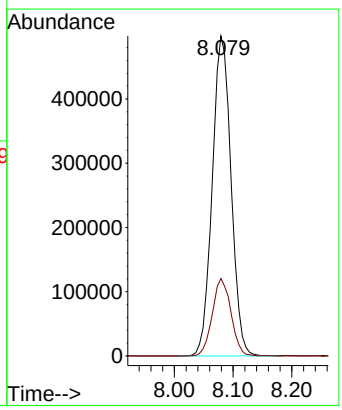
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

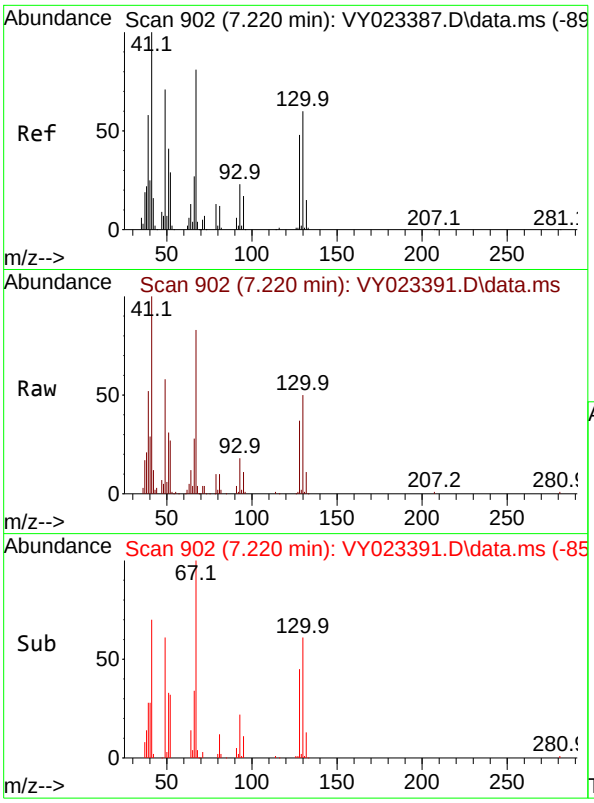


#40
Benzene
Concen: 49.906 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 78 Resp: 1107790

Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.3	27.5

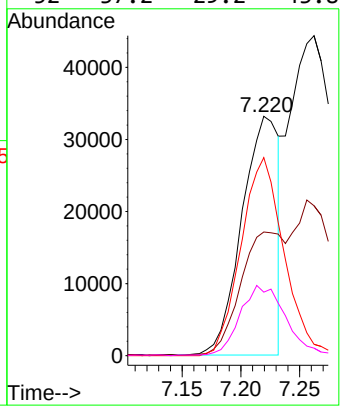




#41
Methacrylonitrile
Concen: 48.008 ug/l
RT: 7.220 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 41 Resp: 7210

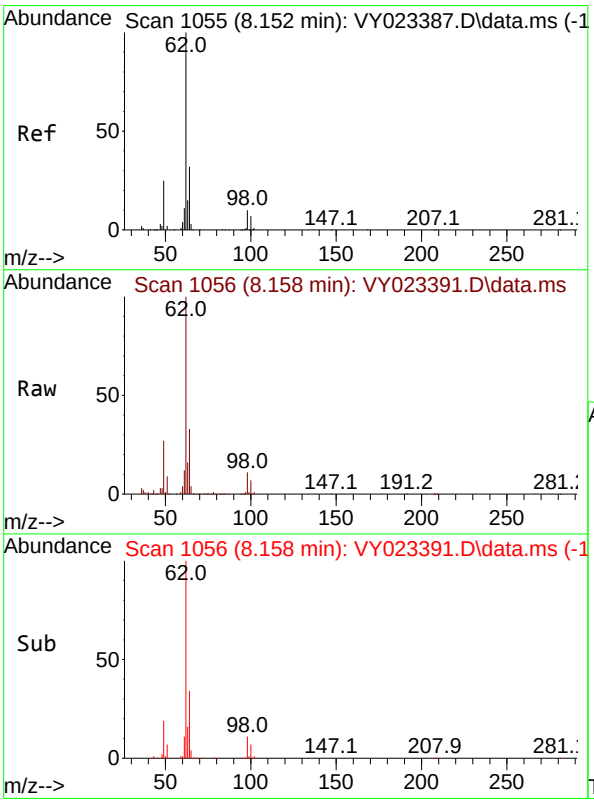
Ion	Ratio	Lower	Upper
41	100		
39	62.2	52.2	78.4
67	97.9	74.9	112.3
52	37.2	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

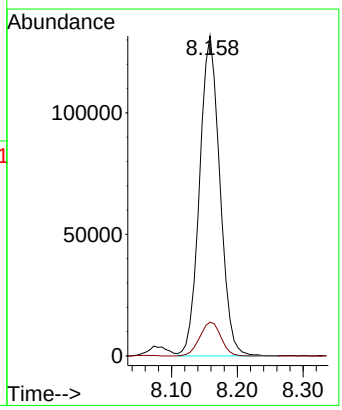
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

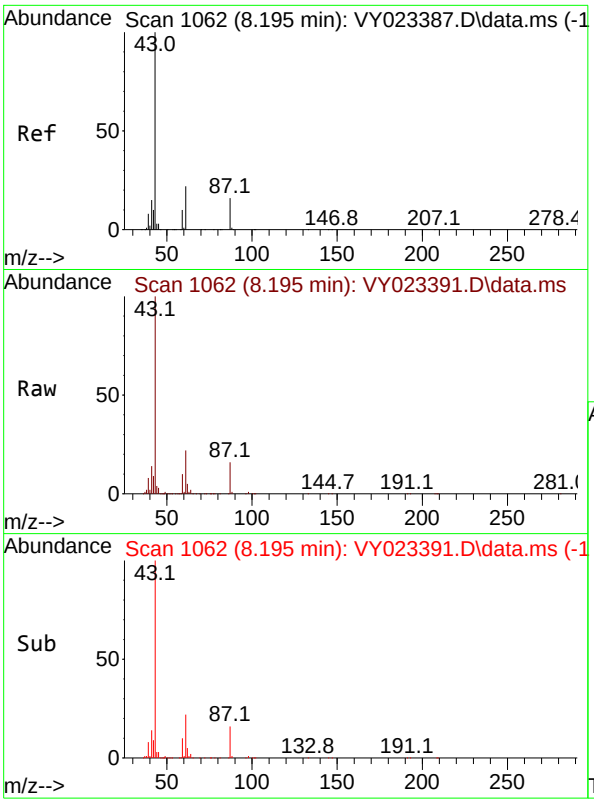


#42
1,2-Dichloroethane
Concen: 49.318 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 62 Resp: 282332

Ion	Ratio	Lower	Upper
62	100		
98	11.1	0.0	21.6

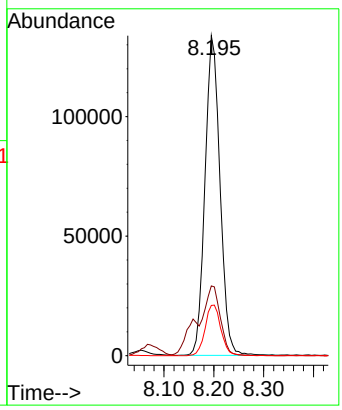




#43
Isopropyl Acetate
Concen: 50.548 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 27988

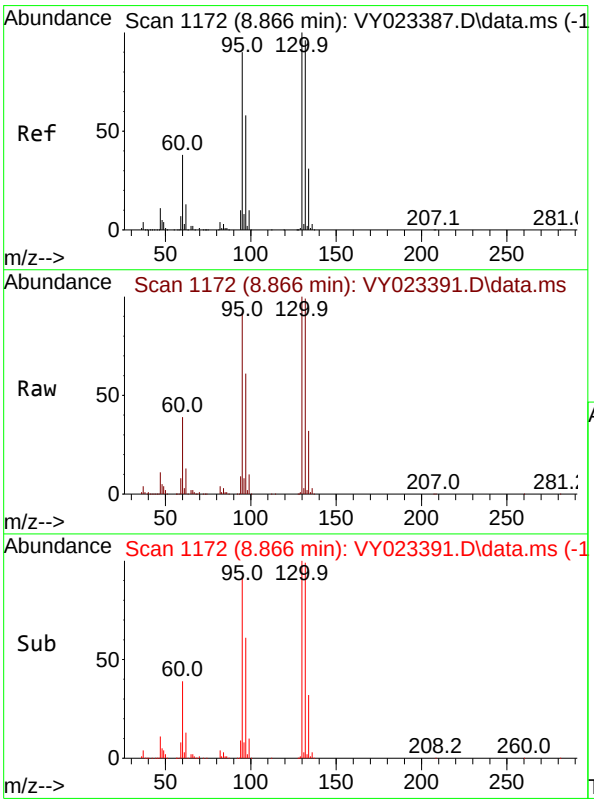
Ion	Ratio	Lower	Upper
43	100		
61	22.8	18.1	27.1
87	16.7	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

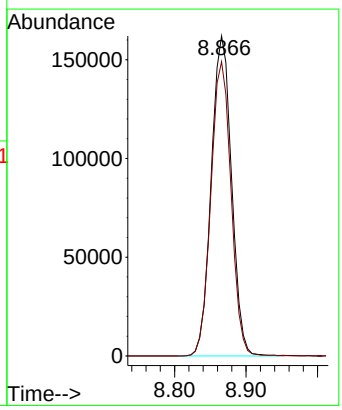
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

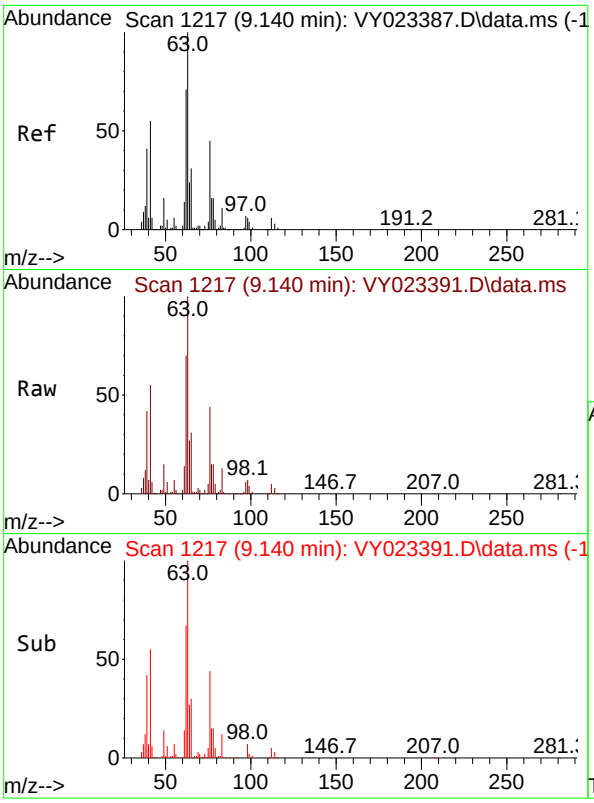


#44
Trichloroethene
Concen: 49.120 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:130 Resp: 319131

Ion	Ratio	Lower	Upper
130	100		
95	91.9	0.0	180.6

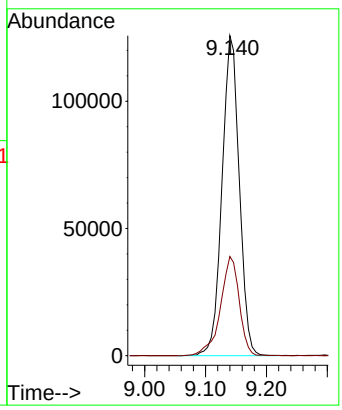




#45
1,2-Dichloropropane
Concen: 50.355 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 63 Resp: 24688

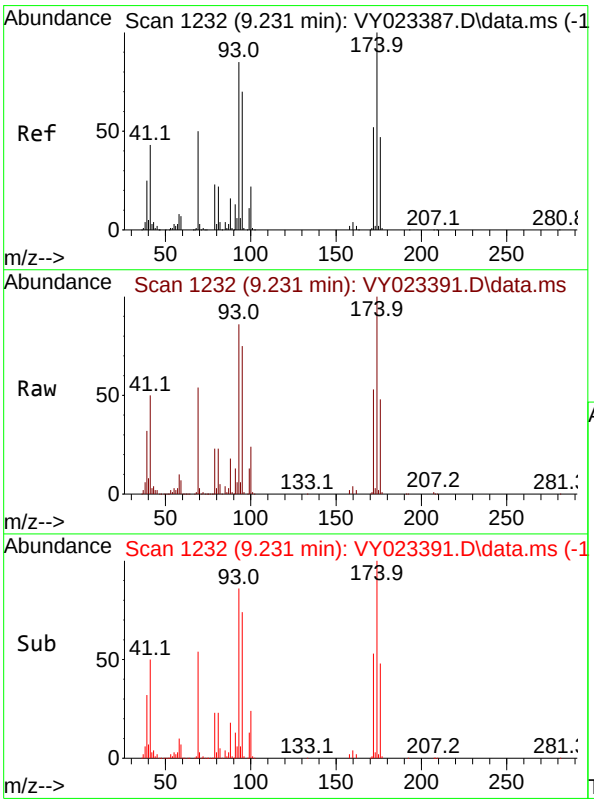
Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

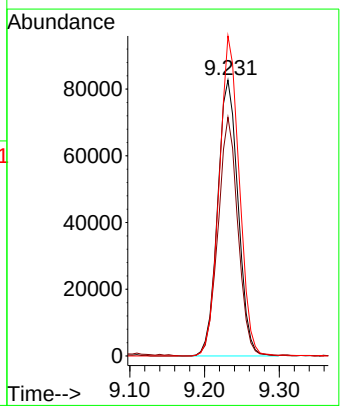
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

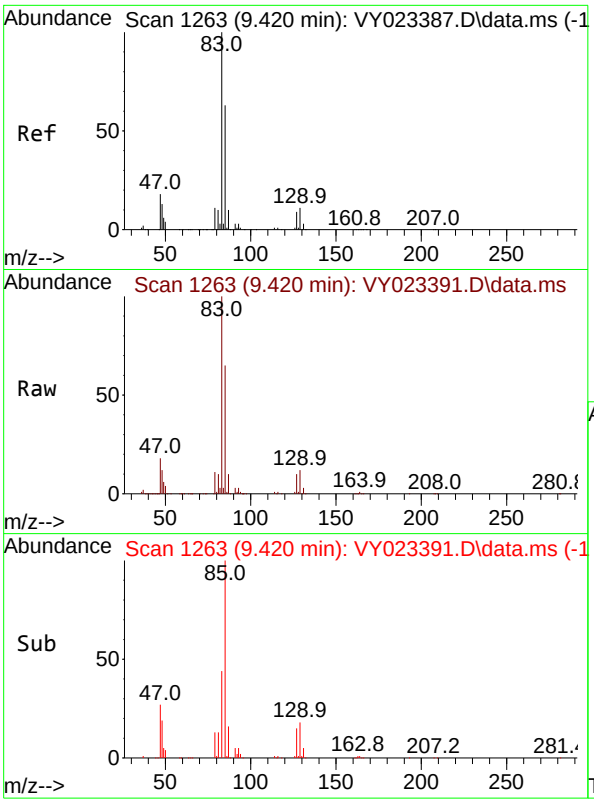


#46
Dibromomethane
Concen: 50.885 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

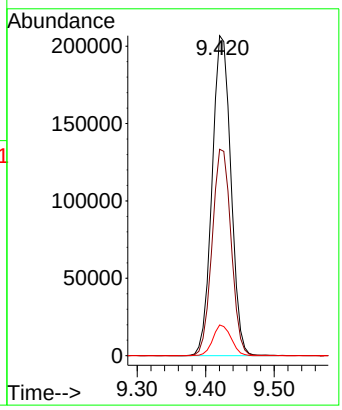




#47
Bromodichloromethane
Concen: 50.450 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 83 Resp: 39391

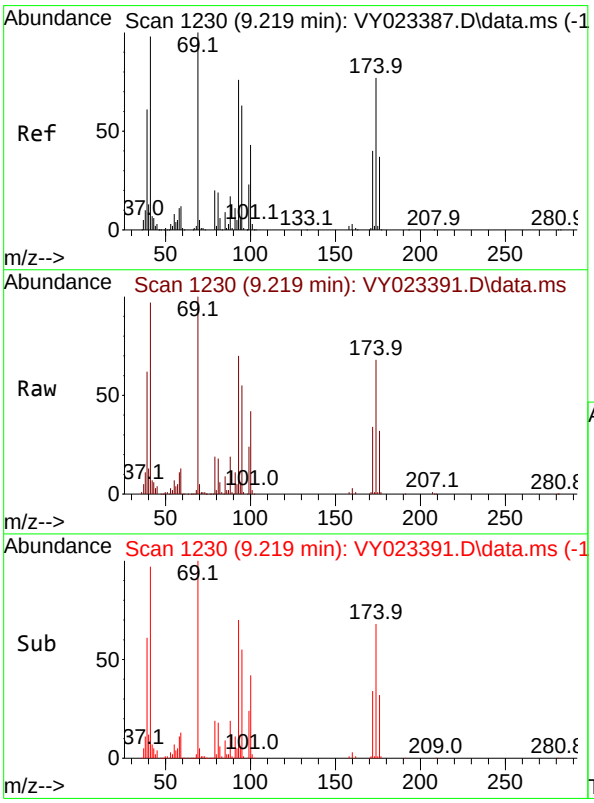
Ion	Ratio	Lower	Upper
83	100		
85	64.5	50.8	76.2
127	9.6	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

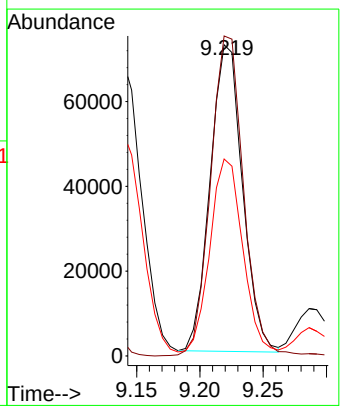
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

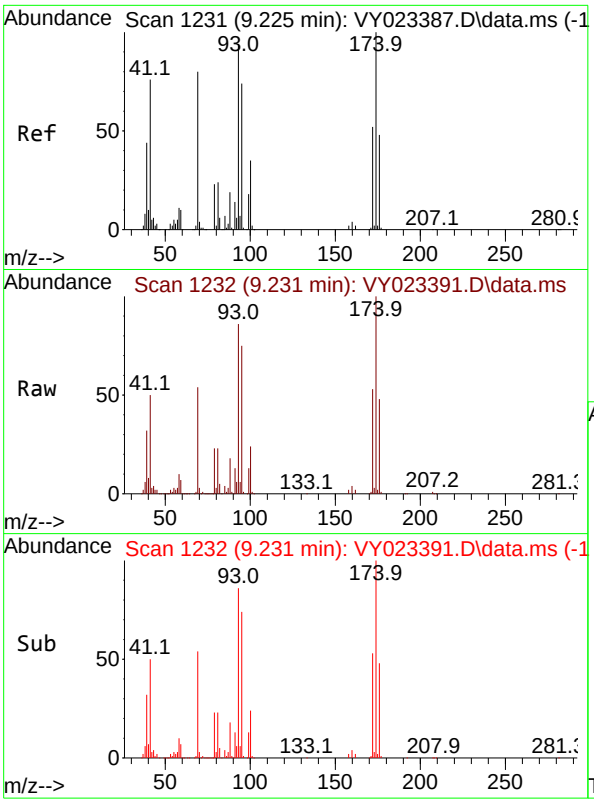


#48
Methyl methacrylate
Concen: 49.440 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

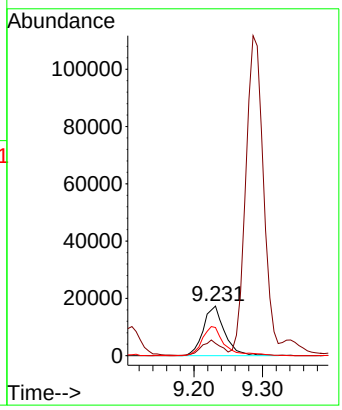




#49
1,4-Dioxane
Concen: 1039.252 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 88 Resp: 3735

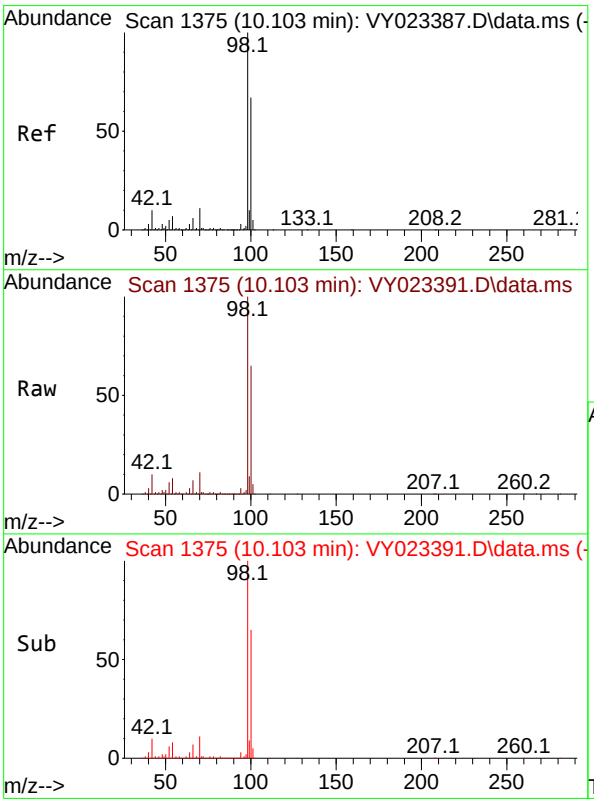
Ion	Ratio	Lower	Upper
88	100		
43	27.4	21.8	32.8
58	61.4	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

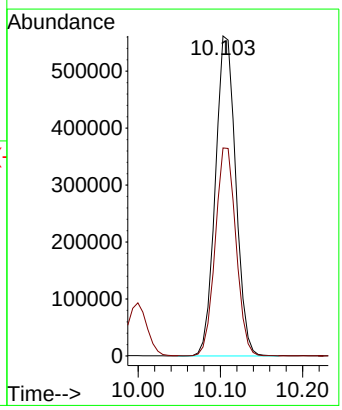
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

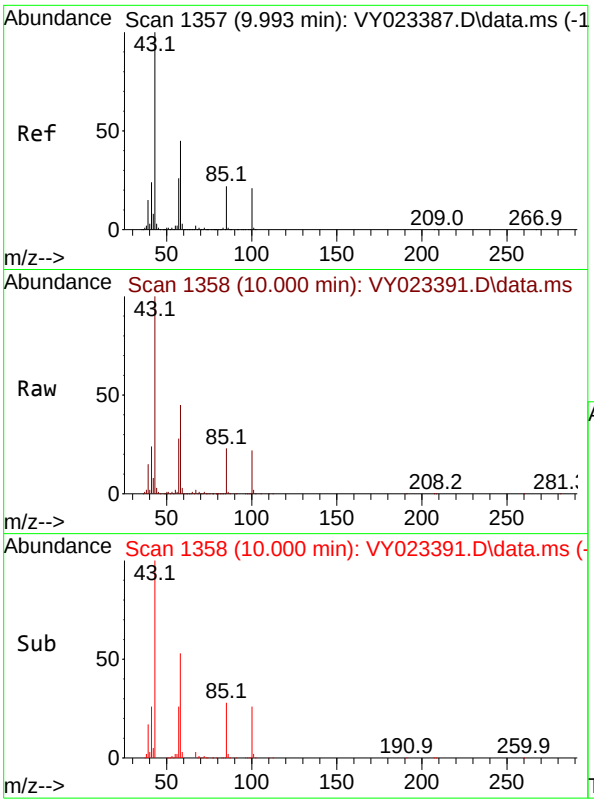


#50
Toluene-d8
Concen: 49.228 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 98 Resp: 970614

Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.0	79.4

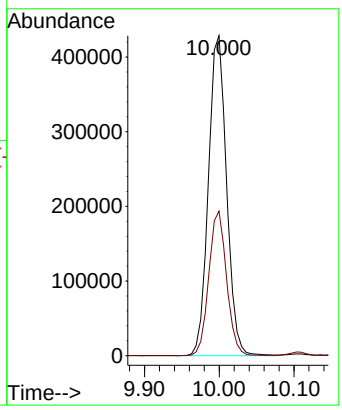




#51
4-Methyl-2-Pentanone
Concen: 253.421 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 43 Resp: 72499

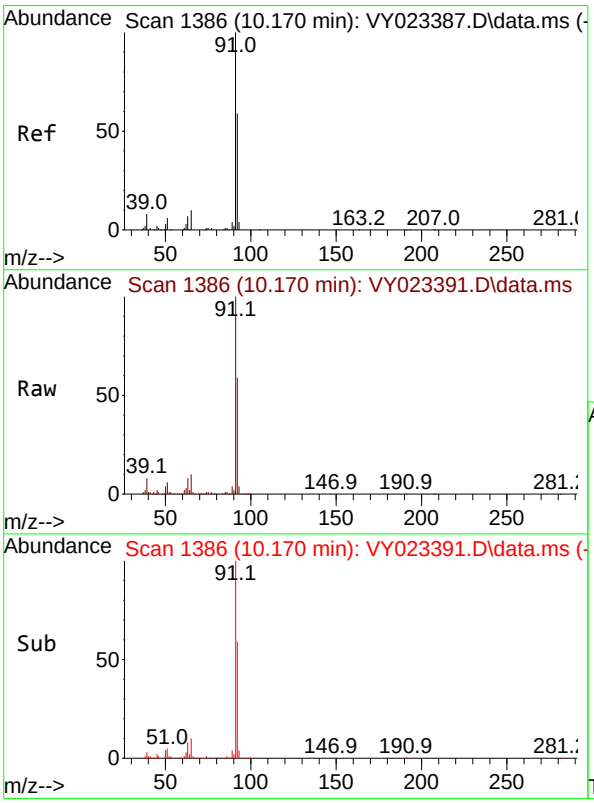
Ion	Ratio	Lower	Upper
43	100		
58	44.4	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

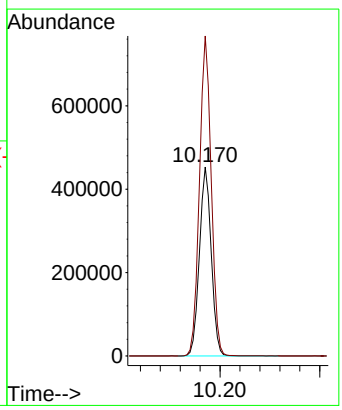
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

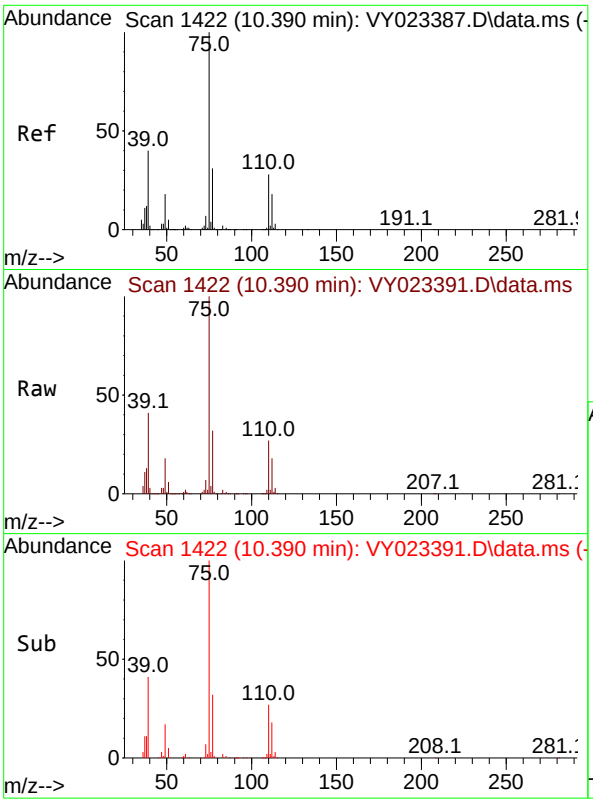


#52
Toluene
Concen: 51.556 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 92 Resp: 743055

Ion	Ratio	Lower	Upper
92	100		
91	168.9	136.4	204.6

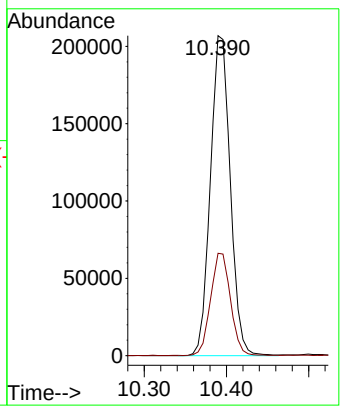




#53
t-1,3-Dichloropropene
Concen: 51.160 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 34733

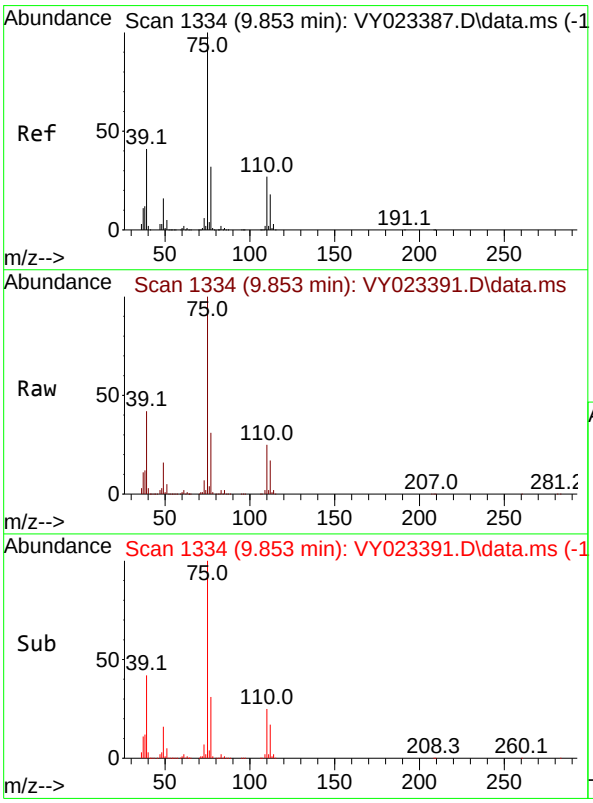
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

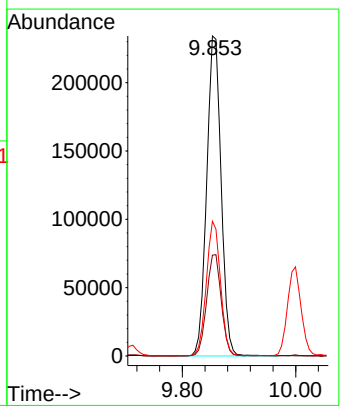
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

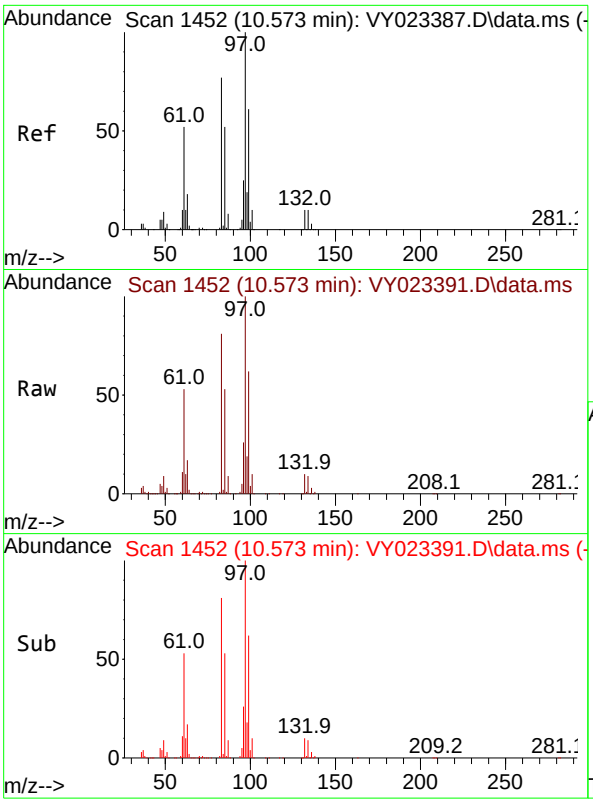


#54
cis-1,3-Dichloropropene
Concen: 51.649 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

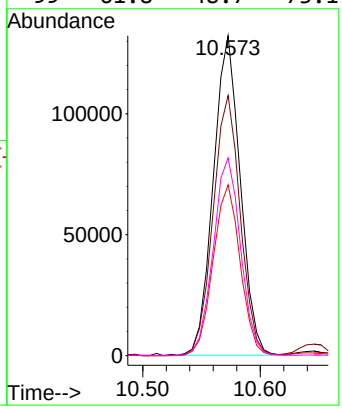




#55
1,1,2-Trichloroethane
Concen: 50.430 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 97 Resp: 21024

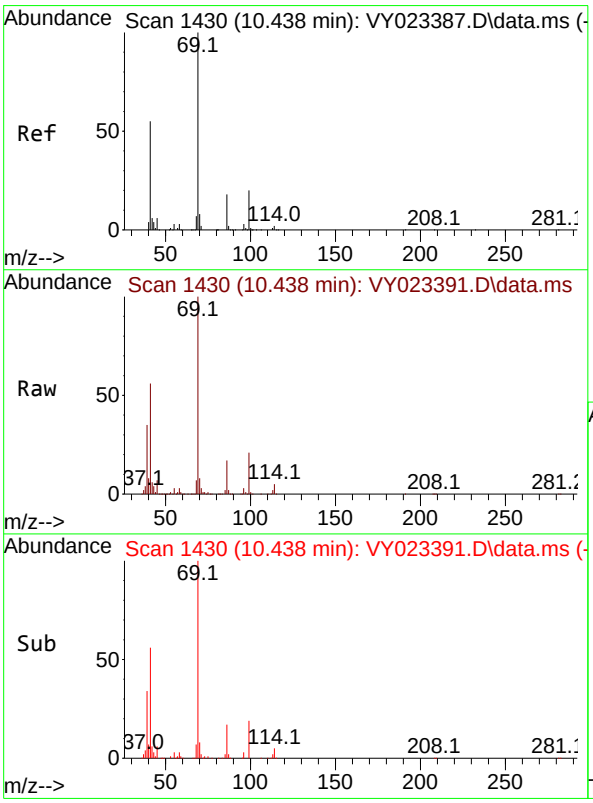
Ion	Ratio	Lower	Upper
97	100		
83	81.4	61.8	92.6
85	53.5	41.3	61.9
99	61.8	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

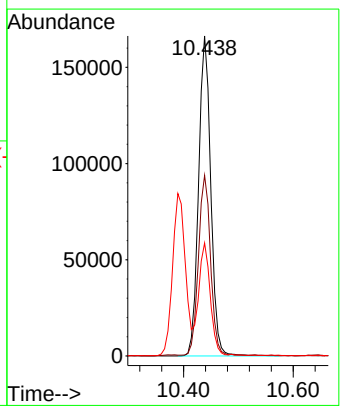
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

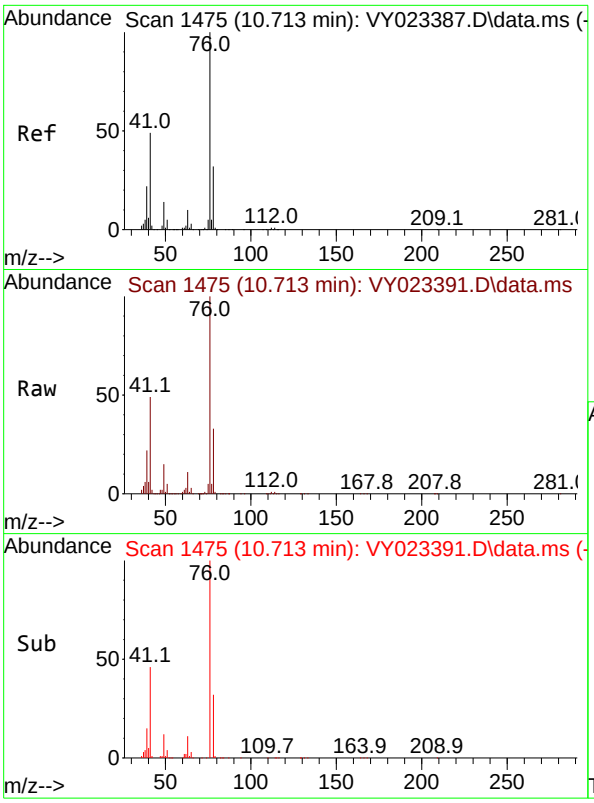


#56
Ethyl methacrylate
Concen: 53.385 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

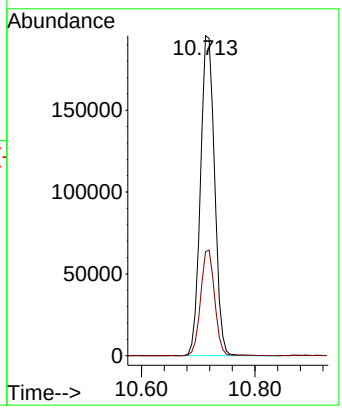




#57
1,3-Dichloropropane
Concen: 51.113 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 76 Resp: 33767

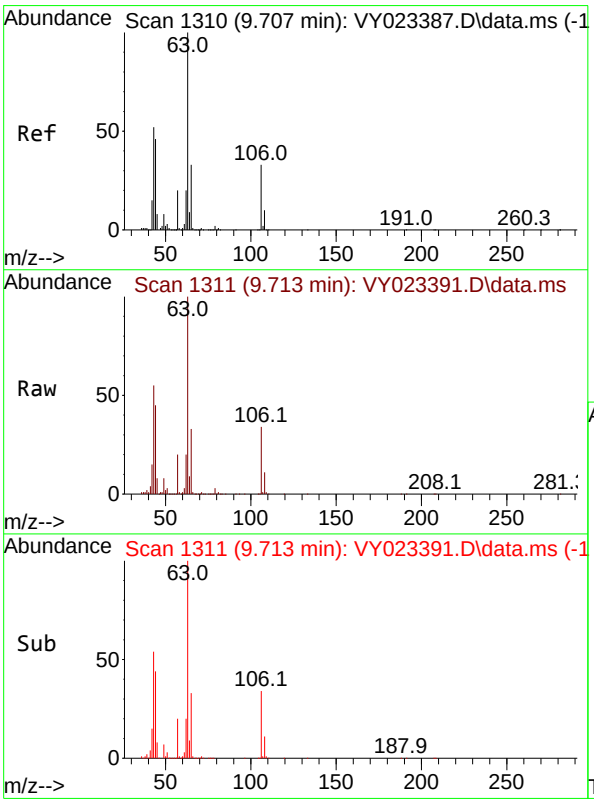
Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

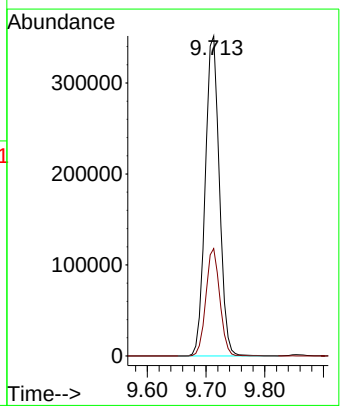
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

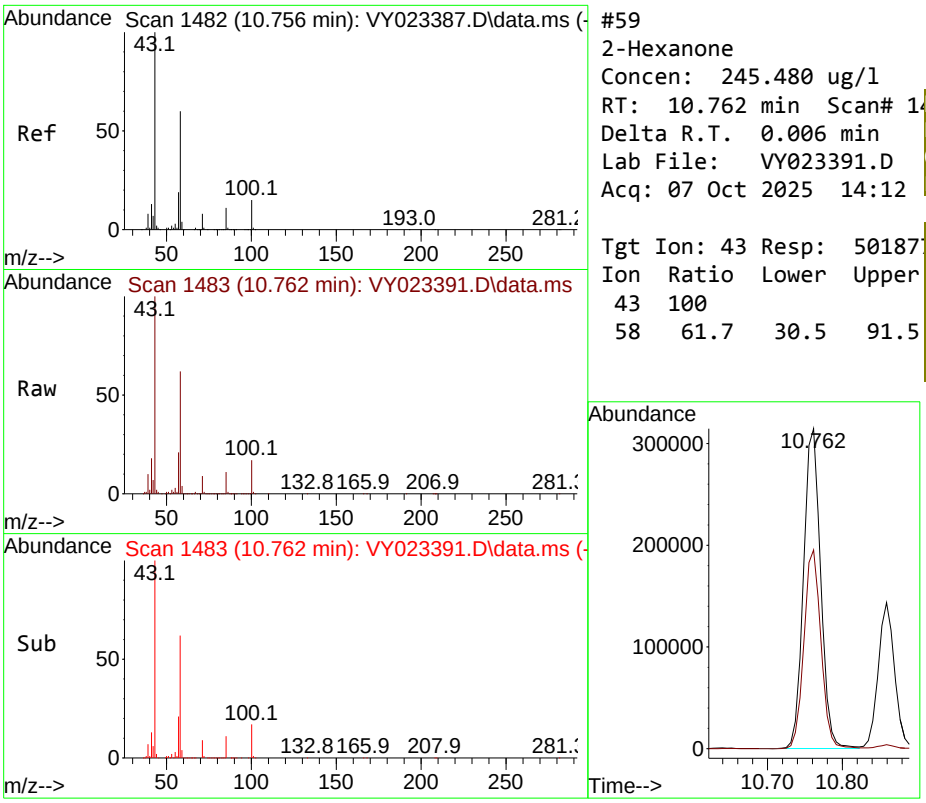


#58
2-Chloroethyl Vinyl ether
Concen: 272.133 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

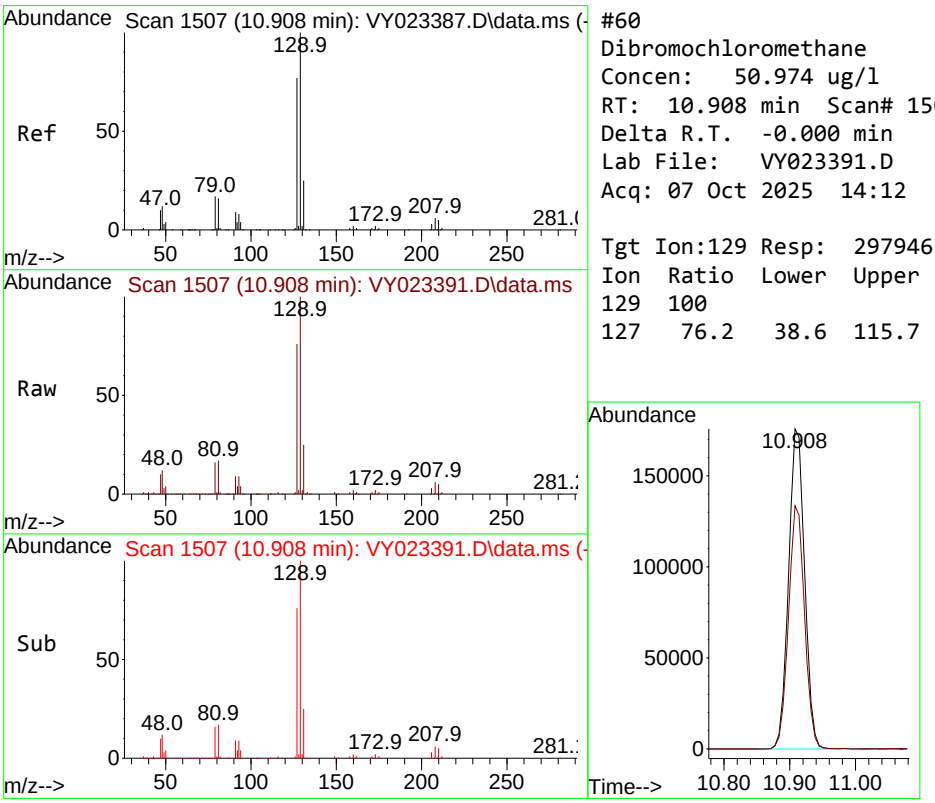
Tgt Ion: 43 Resp: 50187

Ion	Ratio	Lower	Upper
43	100		
58	61.7	30.5	91.5

Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

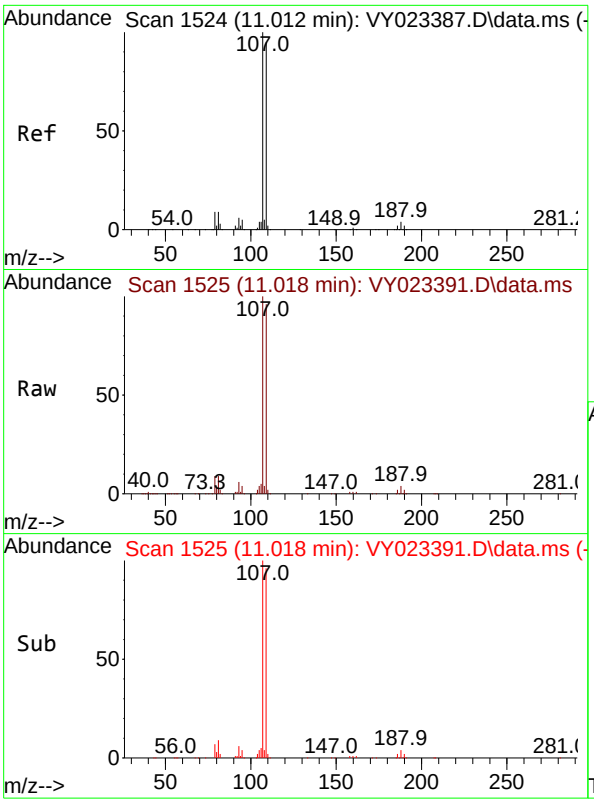
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

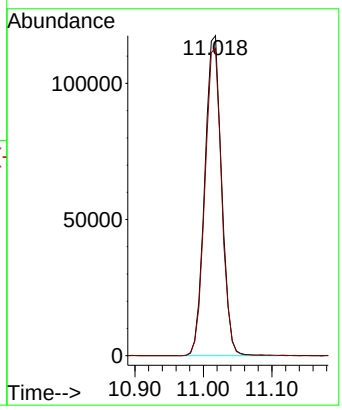
Ion	Ratio	Lower	Upper
129	100		
127	76.2	38.6	115.7



#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

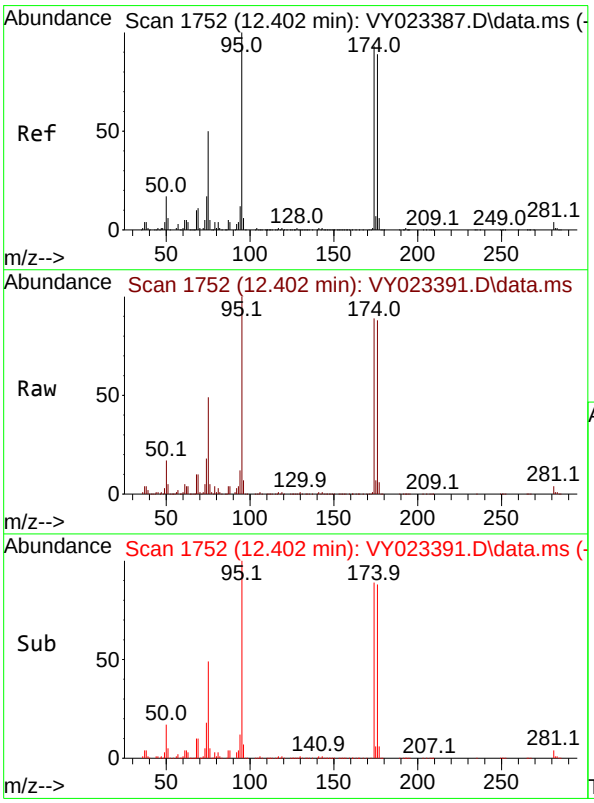
Ion	Ratio	Lower	Upper
107	100		
109	95.4	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

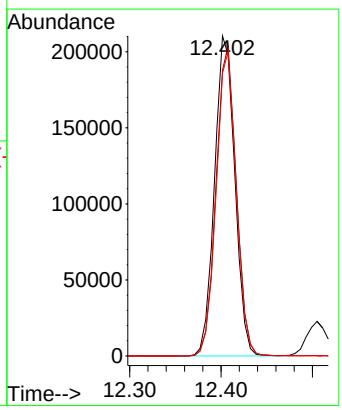
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

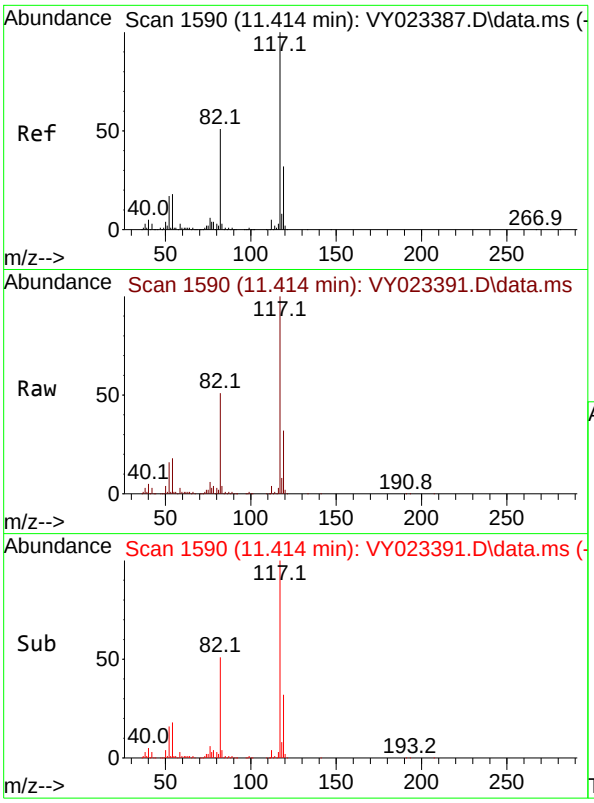


#62
4-Bromofluorobenzene
Concen: 49.881 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

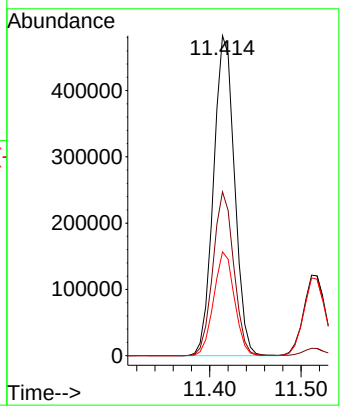




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:117 Resp: 77137

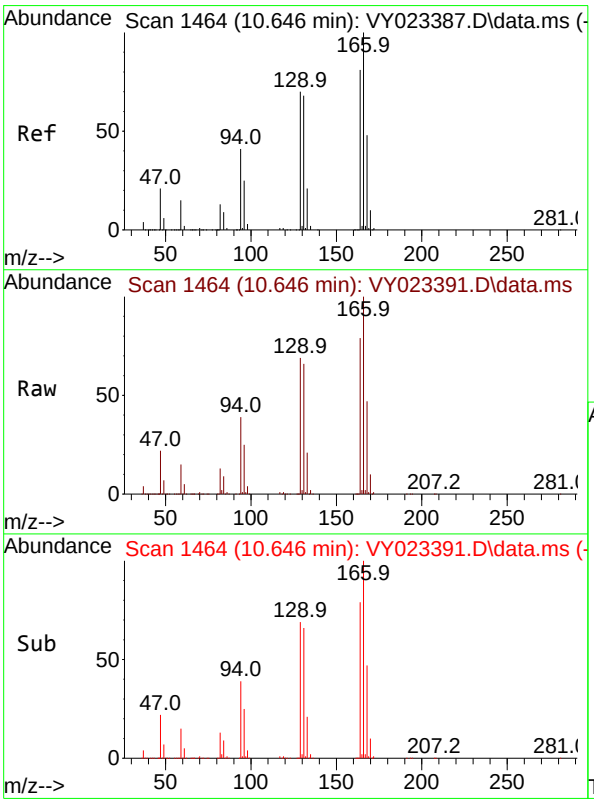
Ion	Ratio	Lower	Upper
117	100		
82	51.2	41.0	61.4
119	32.5	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

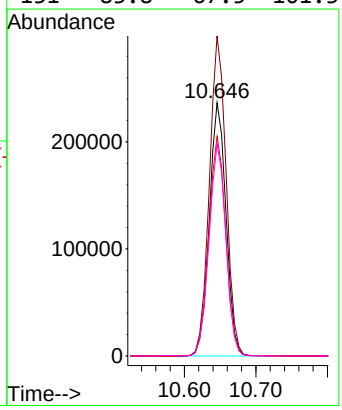
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

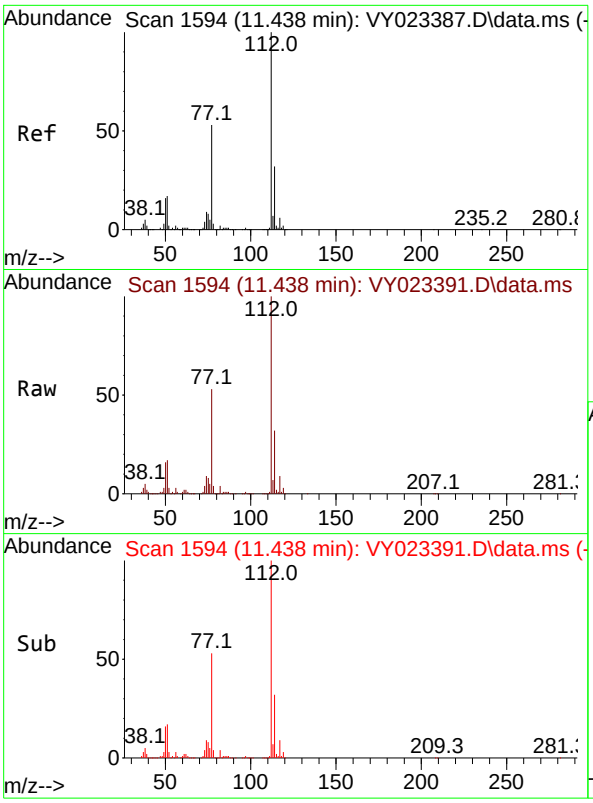


#64
Tetrachloroethene
Concen: 48.087 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

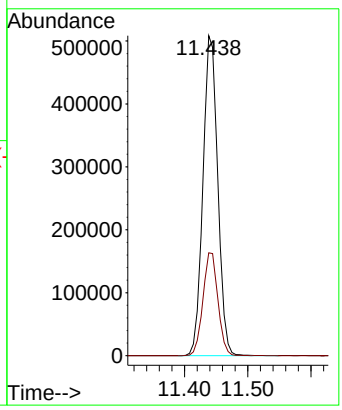




#65
Chlorobenzene
Concen: 49.381 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:112 Resp: 82846

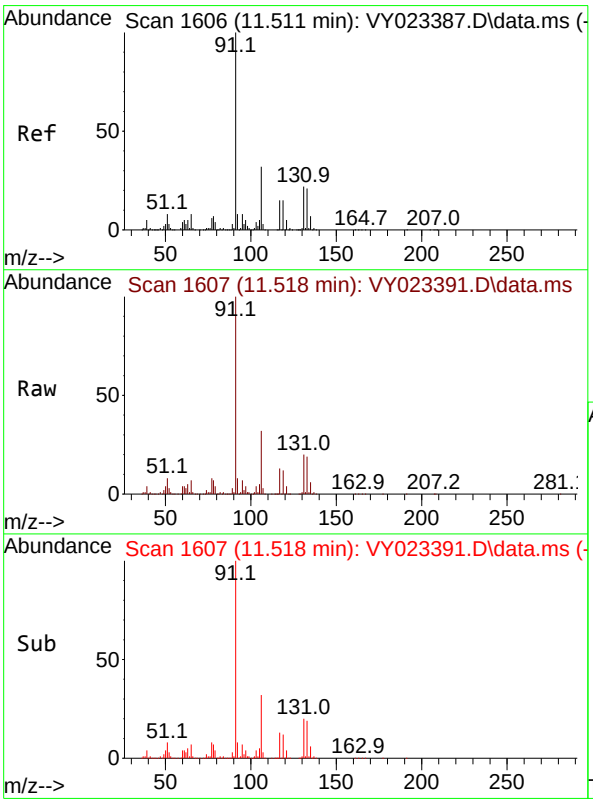
Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

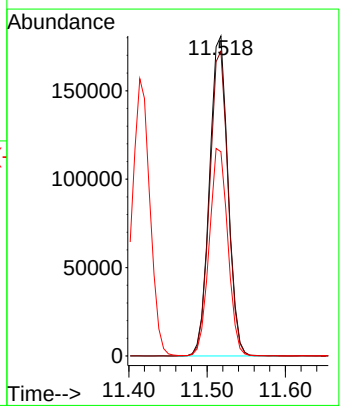
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

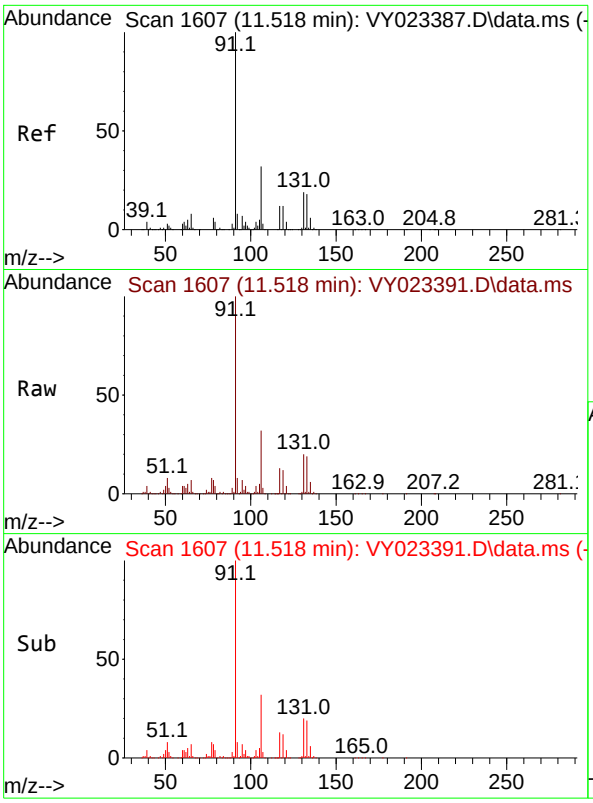


#66
1,1,1,2-Tetrachloroethane
Concen: 49.537 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

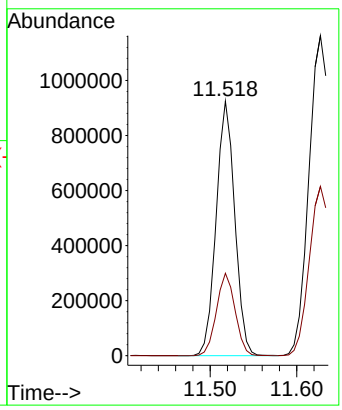




#67
Ethyl Benzene
Concen: 50.841 ug/l
RT: 11.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 138069

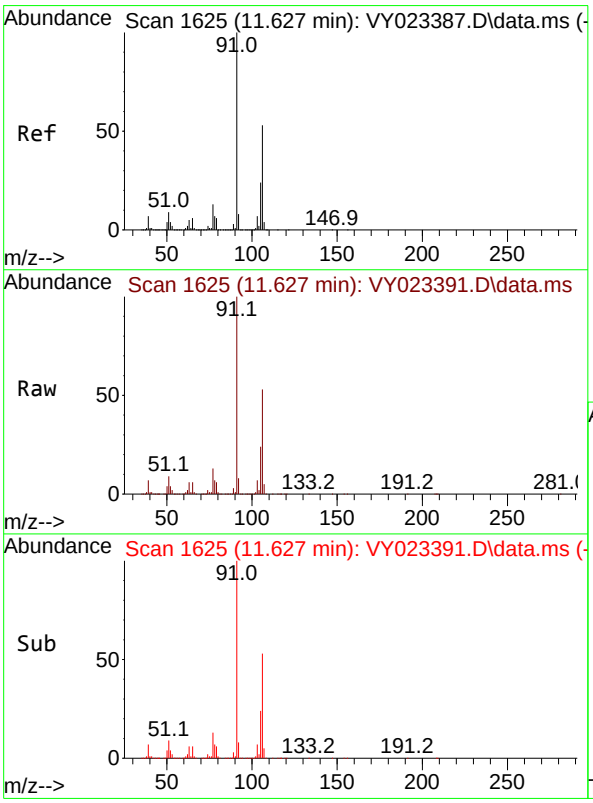
Ion	Ratio	Lower	Upper
91	100		
106	32.4	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

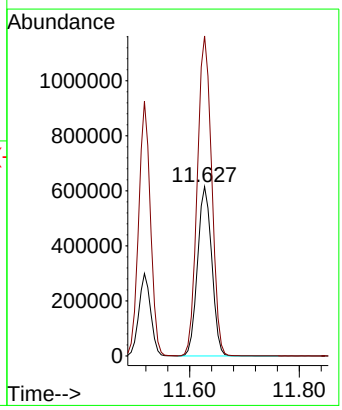
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

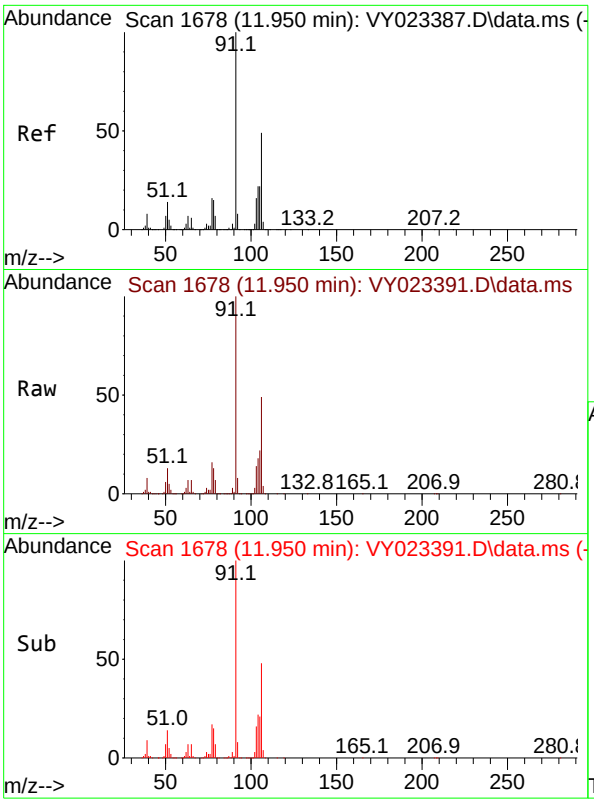


#68
m/p-Xylenes
Concen: 101.757 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:106 Resp: 1108386

Ion	Ratio	Lower	Upper
106	100		
91	190.7	152.6	229.0

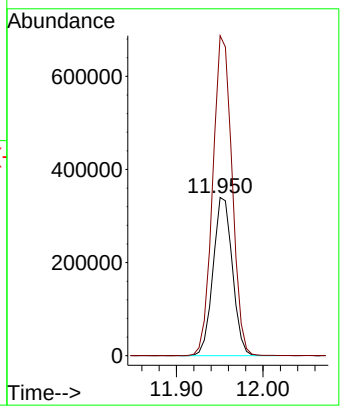




#69
o-Xylene
Concen: 51.577 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:106 Resp: 52695

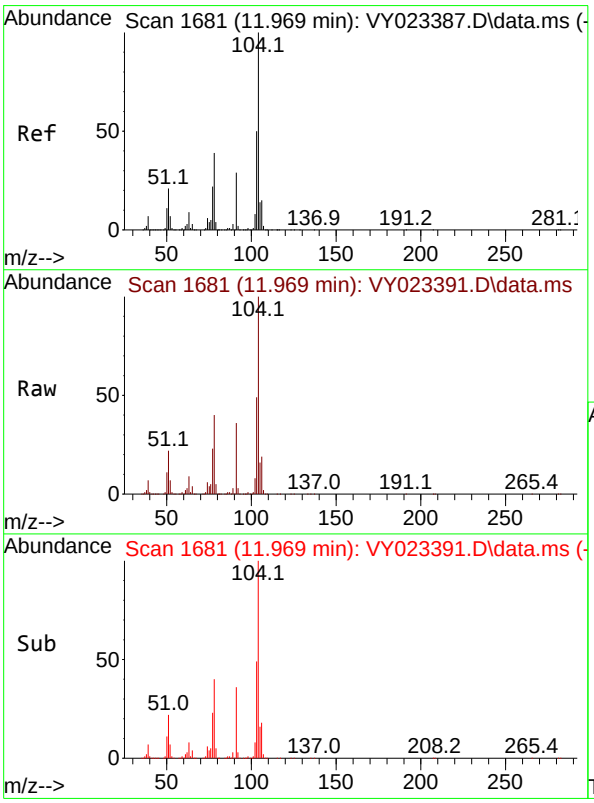
Ion	Ratio	Lower	Upper
106	100		
91	202.1	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

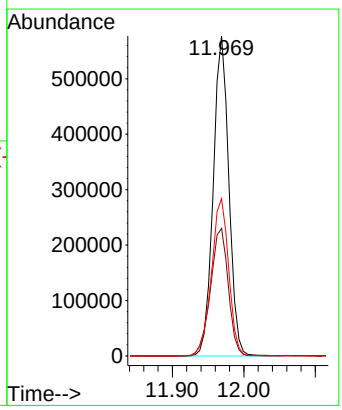
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

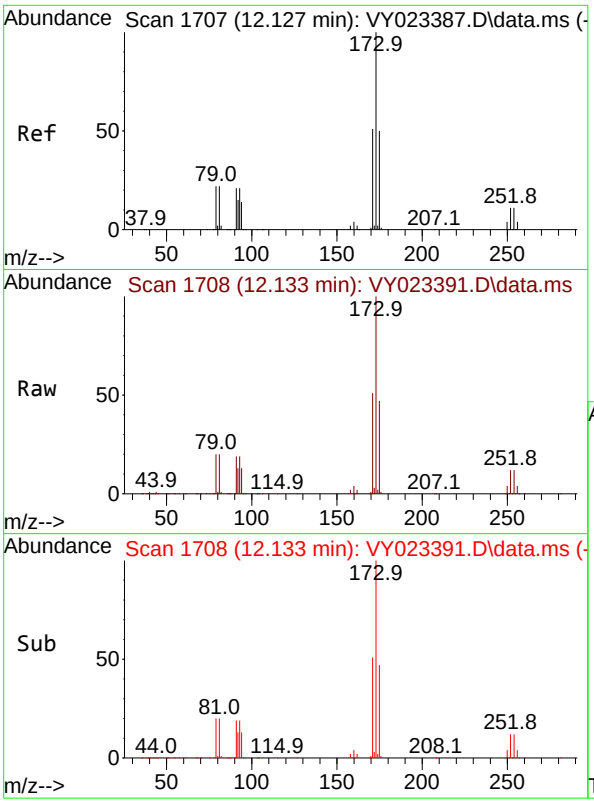


#70
Styrene
Concen: 52.122 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

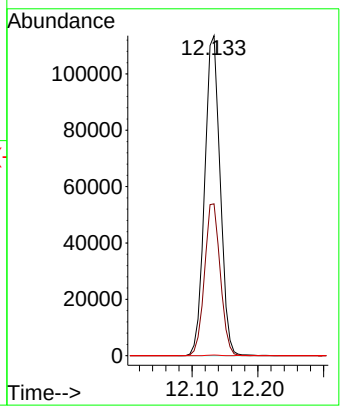




#71
Bromoform
Concen: 50.070 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:173 Resp: 18568

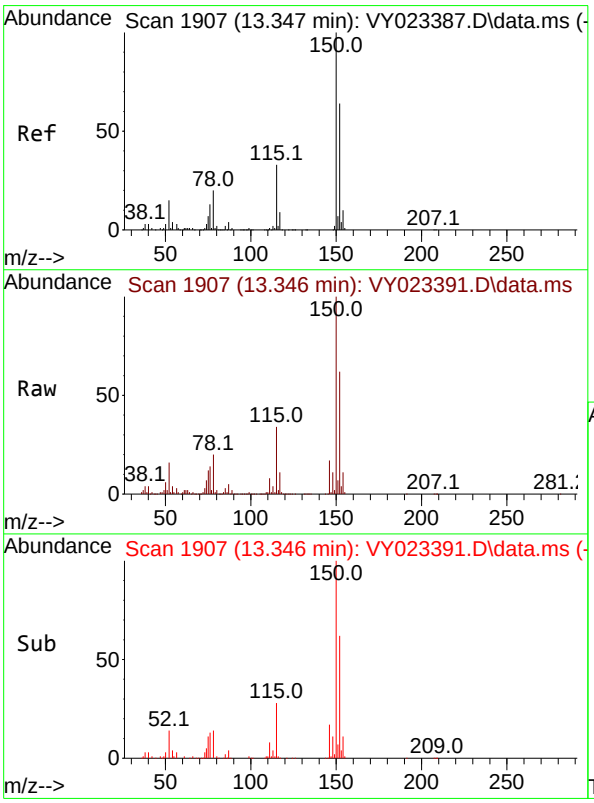
Ion	Ratio	Lower	Upper
173	100		
175	48.4	24.8	74.3
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

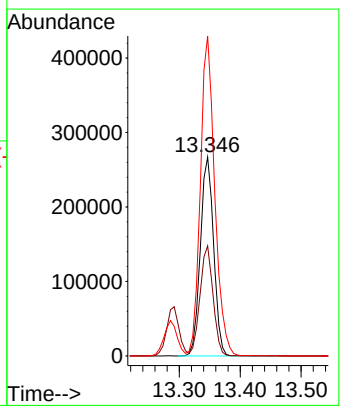
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

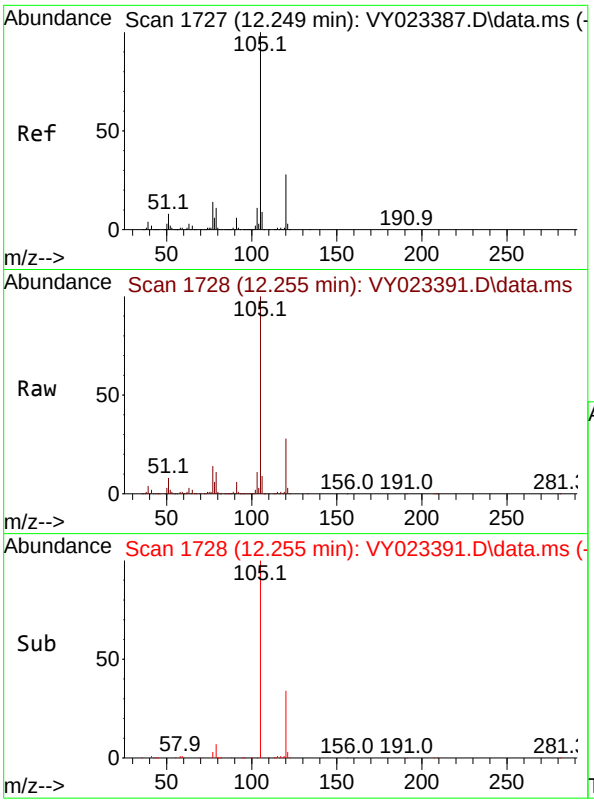


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

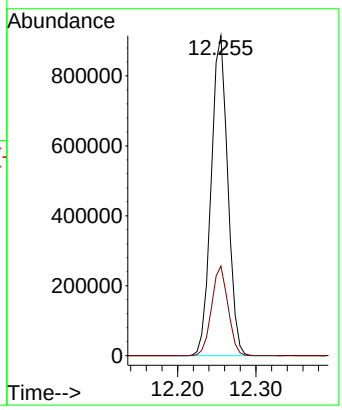




#73
Isopropylbenzene
Concen: 50.318 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:105 Resp: 134510

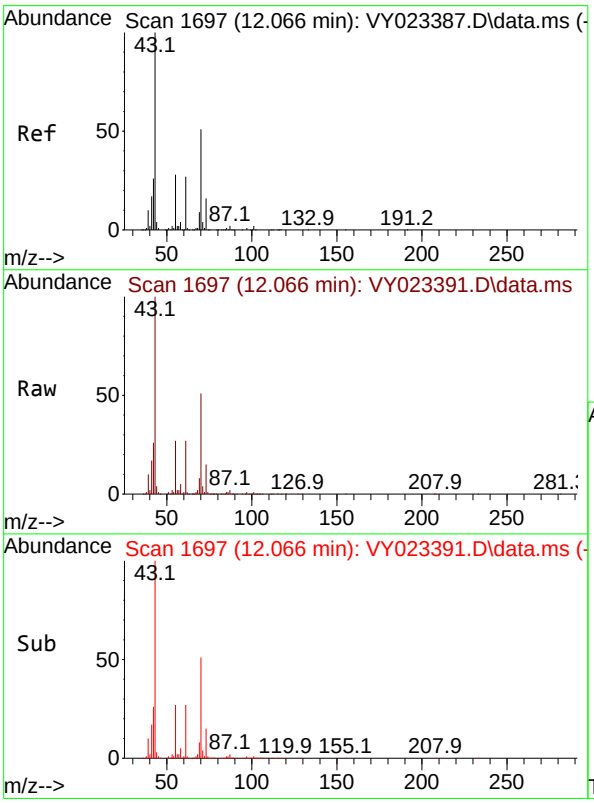
Ion	Ratio	Lower	Upper
105	100		
120	27.7	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

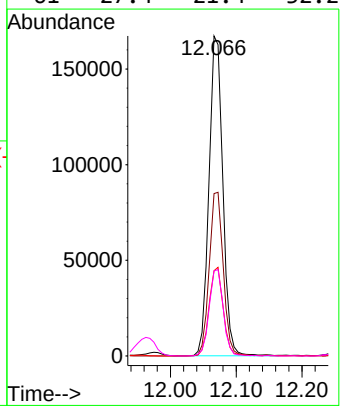
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

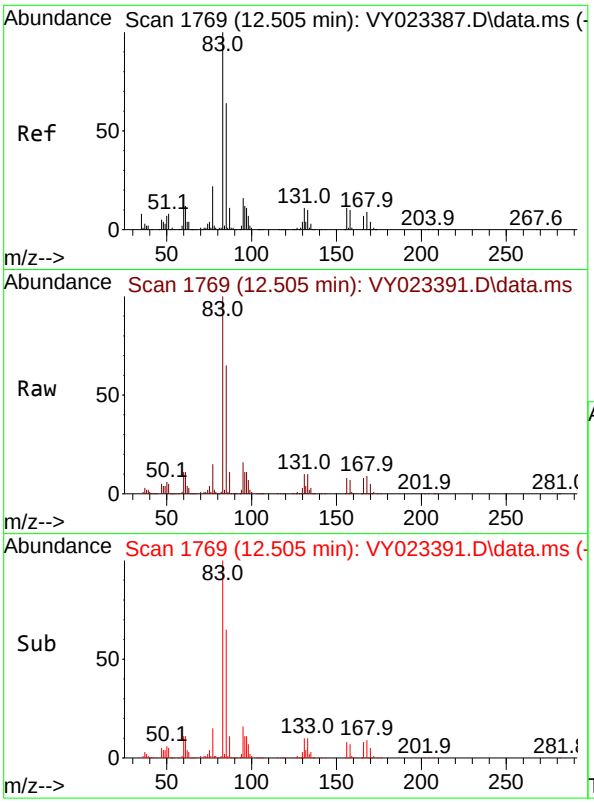


#74
N-amyl acetate
Concen: 51.087 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

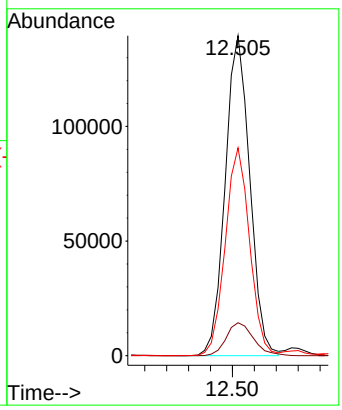




#75
1,1,2,2-Tetrachloroethane
Concen: 49.688 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 83 Resp: 21724

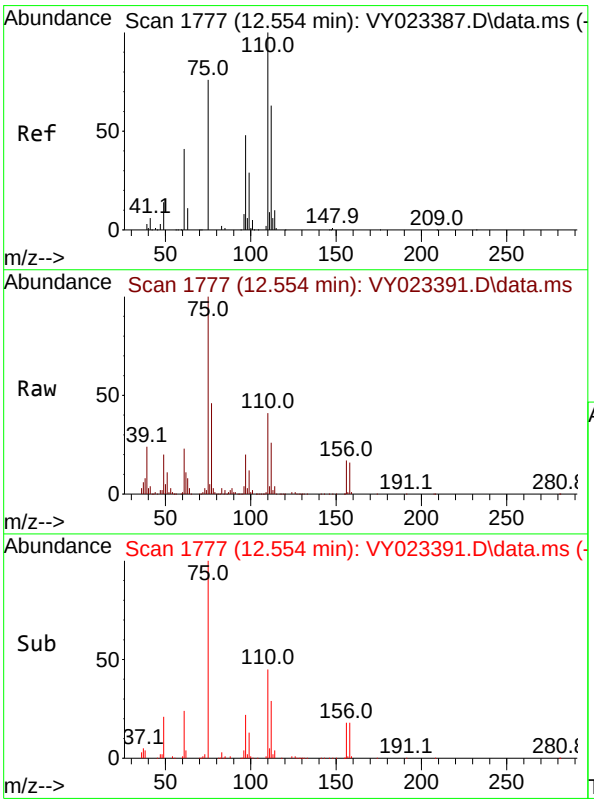
Ion	Ratio	Lower	Upper
83	100		
131	11.4	5.9	17.6
85	64.4	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

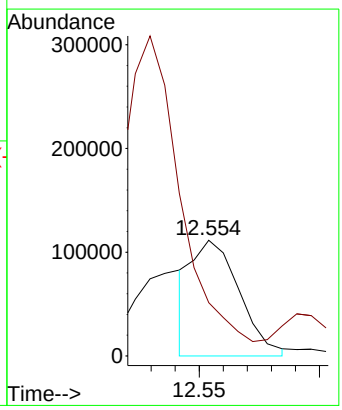
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

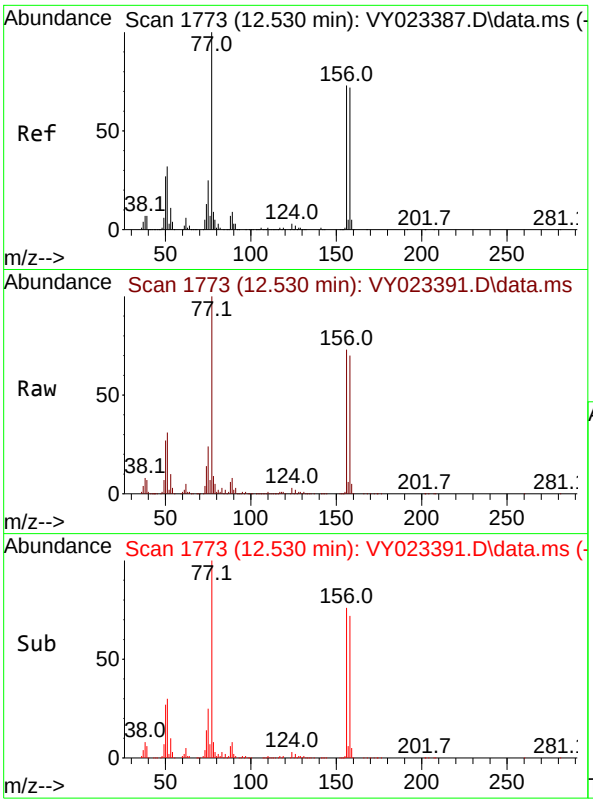


#76
1,2,3-Trichloropropane
Concen: 42.874 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 153438

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

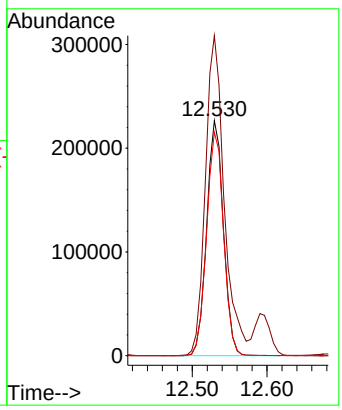




#77
Bromobenzene
Concen: 49.590 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:156 Resp: 35242

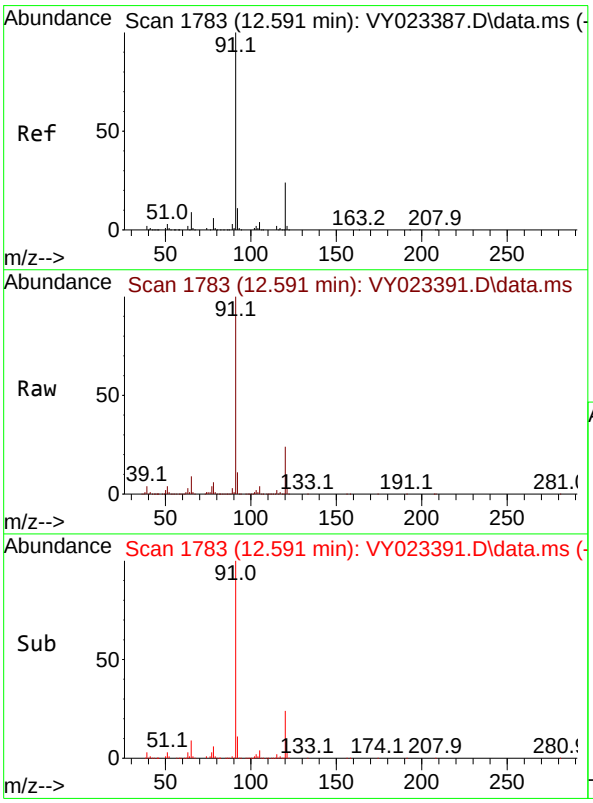
Ion	Ratio	Lower	Upper
156	100		
77	152.8	76.8	230.5
158	96.5	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

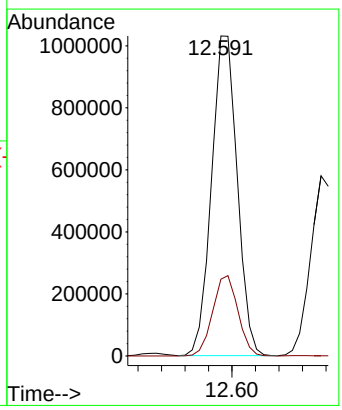
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

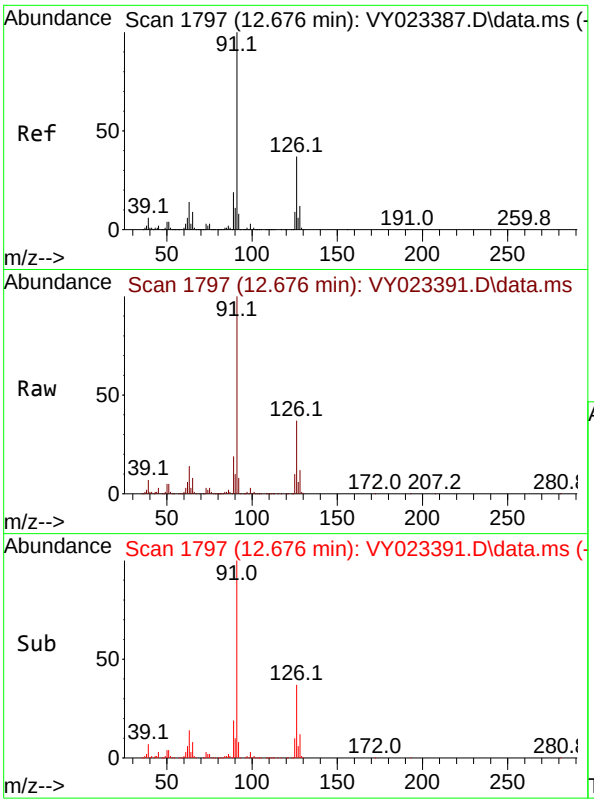


#78
n-propylbenzene
Concen: 50.694 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 1568180

Ion	Ratio	Lower	Upper
91	100		
120	24.7	12.3	36.8

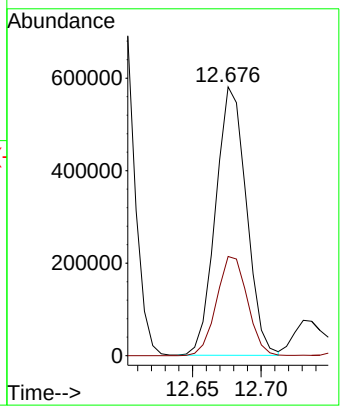




#79
2-Chlorotoluene
Concen: 50.047 ug/l
RT: 12.676 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 90661

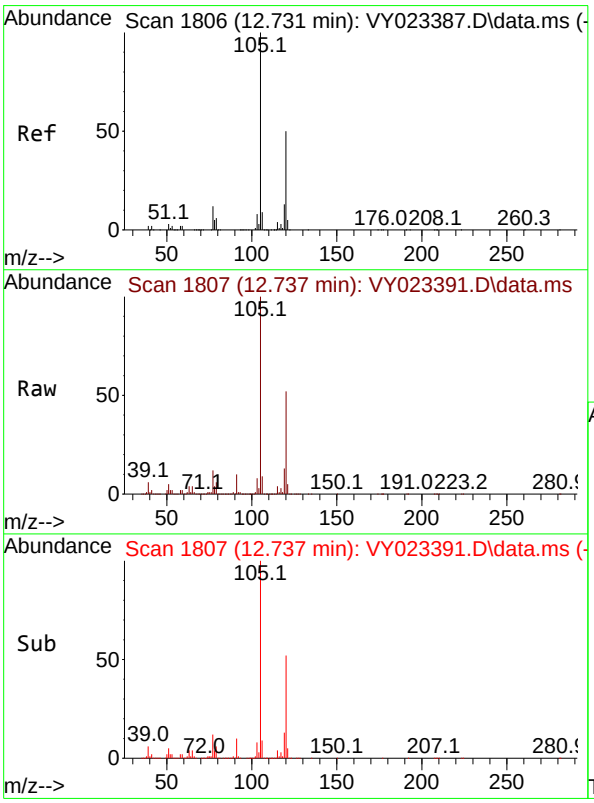
Ion	Ratio	Lower	Upper
91	100		
126	37.1	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

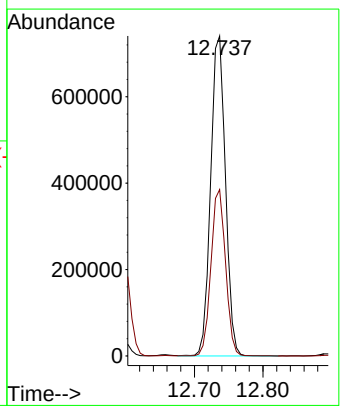
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

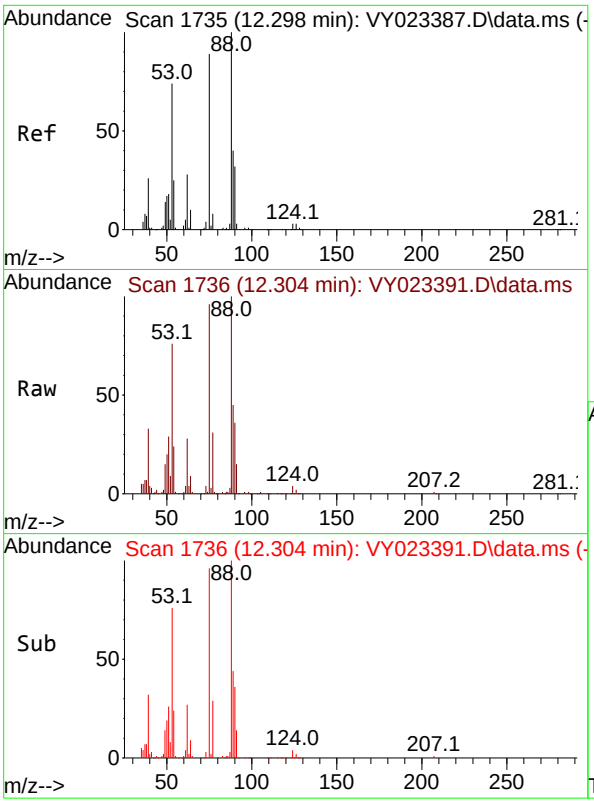


#80
1,3,5-Trimethylbenzene
Concen: 51.231 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:105 Resp: 1106664

Ion	Ratio	Lower	Upper
105	100		
120	51.4	25.4	76.4

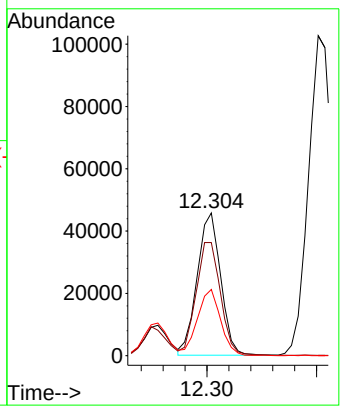




#81
trans-1,4-Dichloro-2-butene
Concen: 46.566 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 75 Resp: 6795

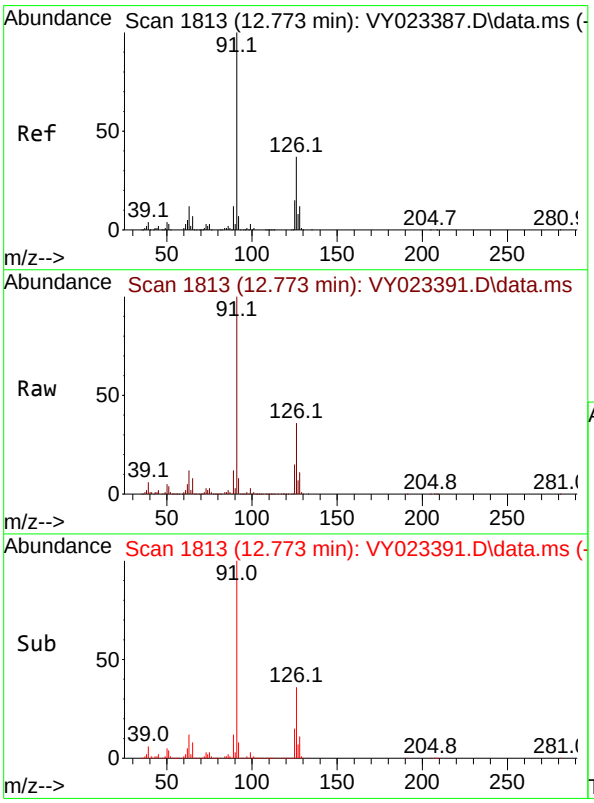
Ion	Ratio	Lower	Upper
75	100		
53	82.6	68.6	102.8
89	46.5	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

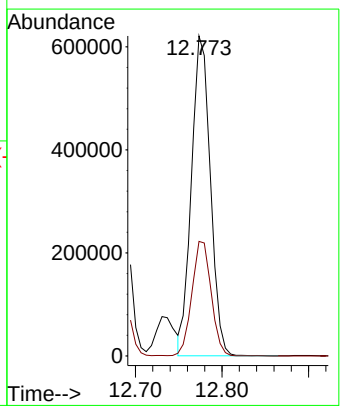
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

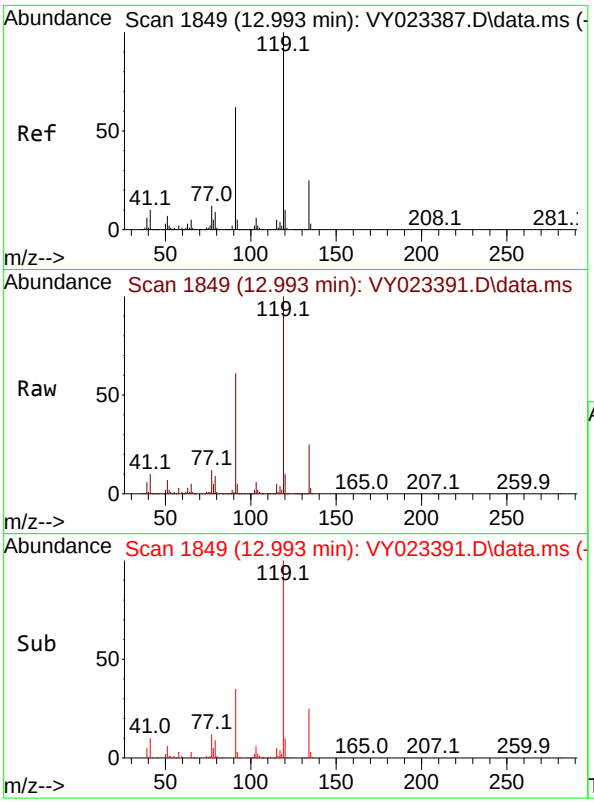


#82
4-Chlorotoluene
Concen: 50.455 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 941314

Ion	Ratio	Lower	Upper
91	100		
126	36.7	18.4	55.4

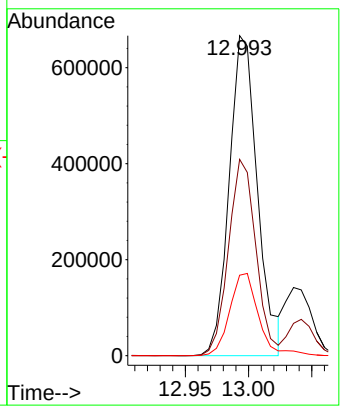




#83
tert-Butylbenzene
Concen: 52.019 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:119 Resp: 103751

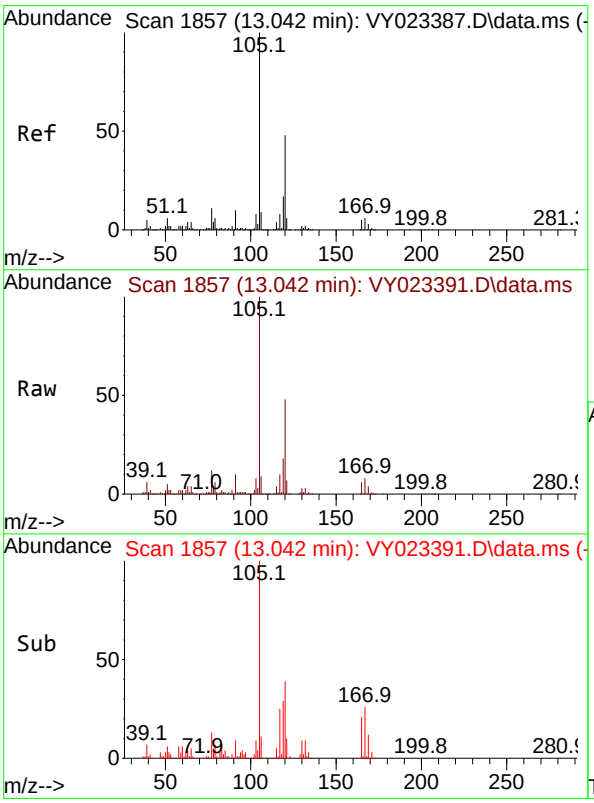
Ion	Ratio	Lower	Upper
119	100		
91	59.5	29.9	89.8
134	26.3	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

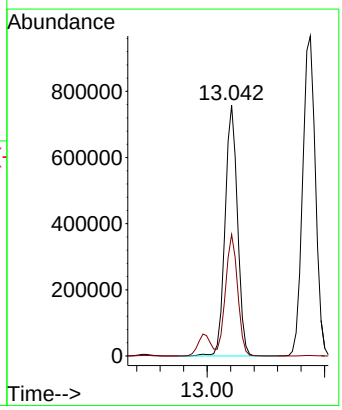
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

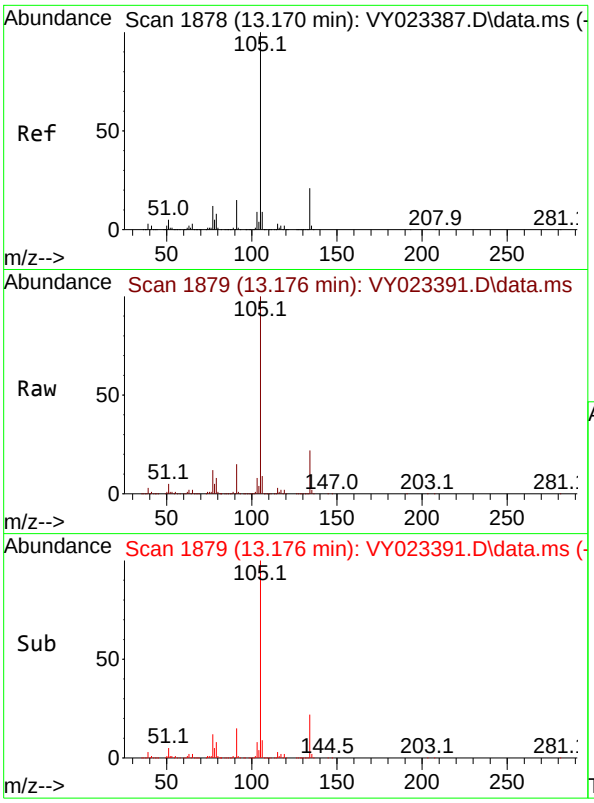


#84
1,2,4-Trimethylbenzene
Concen: 51.520 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:105 Resp: 1110672

Ion	Ratio	Lower	Upper
105	100		
120	47.0	23.8	71.2

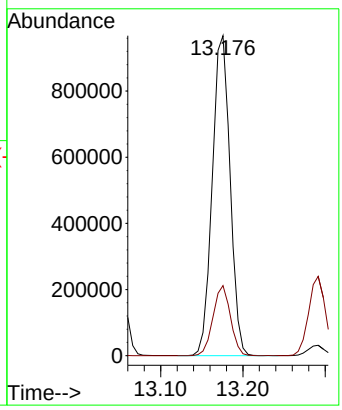




#85
sec-Butylbenzene
Concen: 50.848 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:105 Resp: 145477

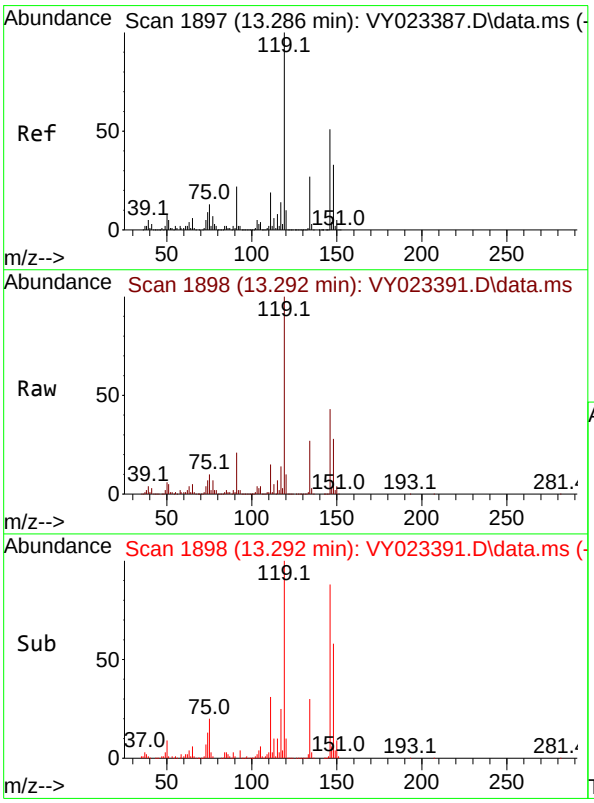
Ion	Ratio	Lower	Upper
105	100		
134	21.4	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

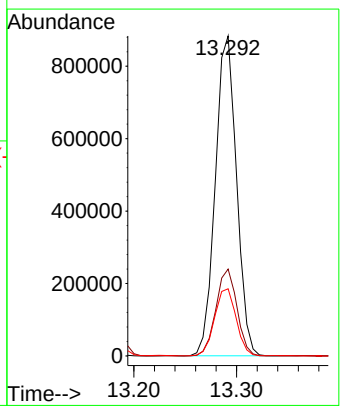
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

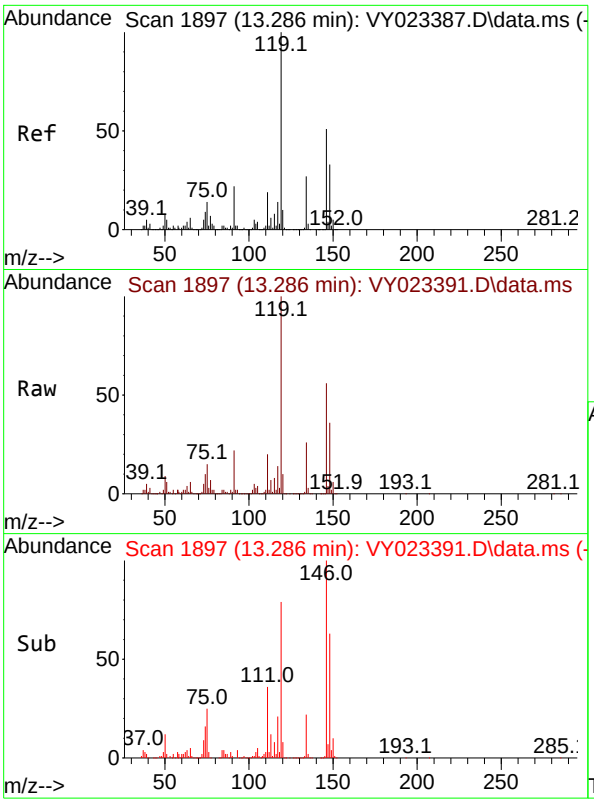


#86
p-Isopropyltoluene
Concen: 51.864 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

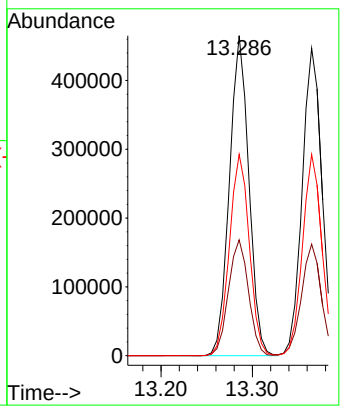




#87
1,3-Dichlorobenzene
Concen: 49.632 ug/l
RT: 13.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:146 Resp: 68685

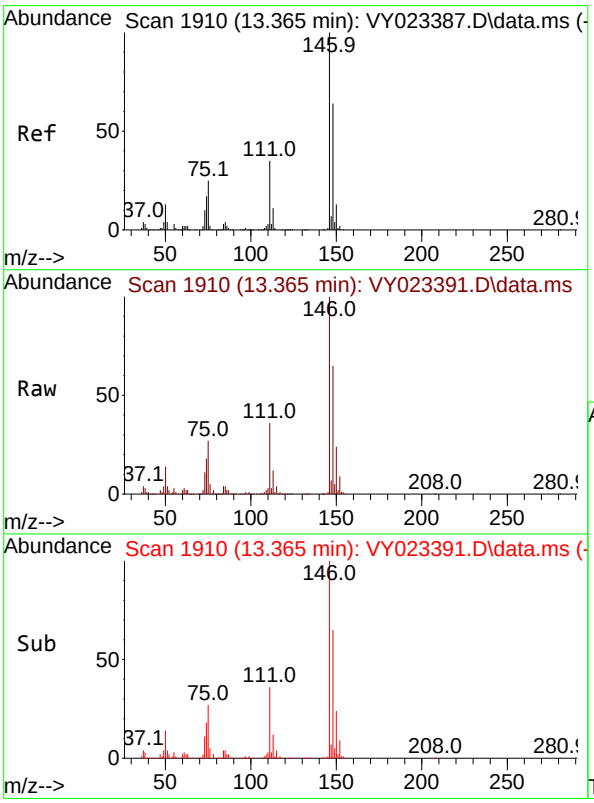
Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.7	56.1
148	64.5	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

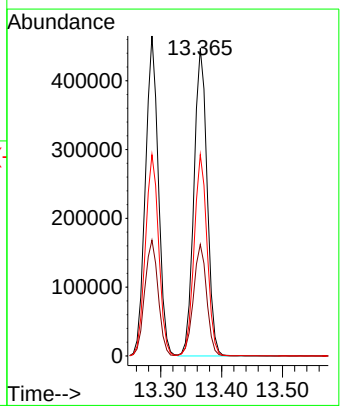
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

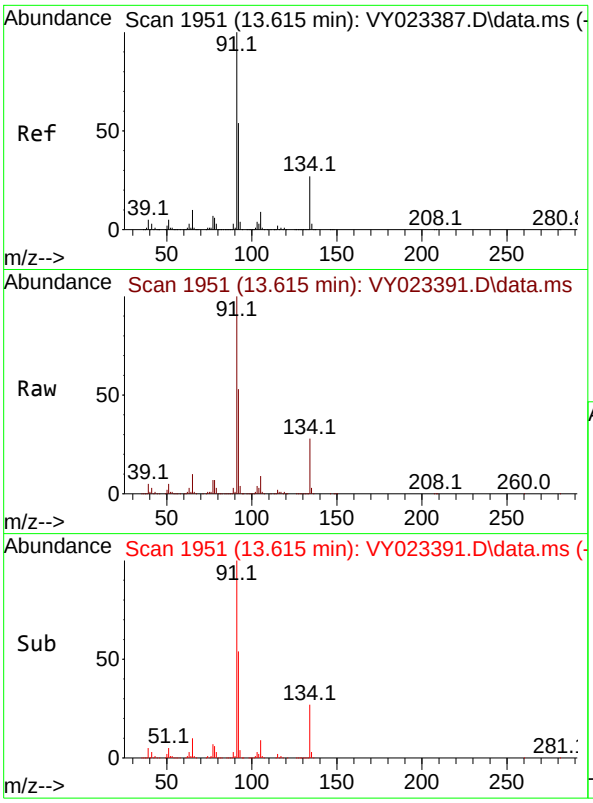


#88
1,4-Dichlorobenzene
Concen: 49.140 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

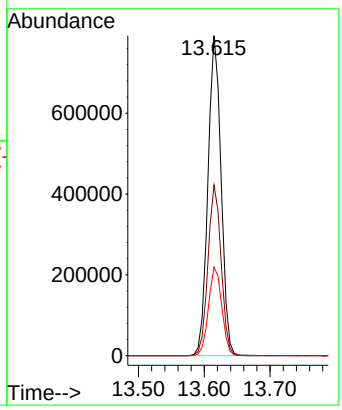




#89
n-Butylbenzene
Concen: 51.829 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion: 91 Resp: 110008

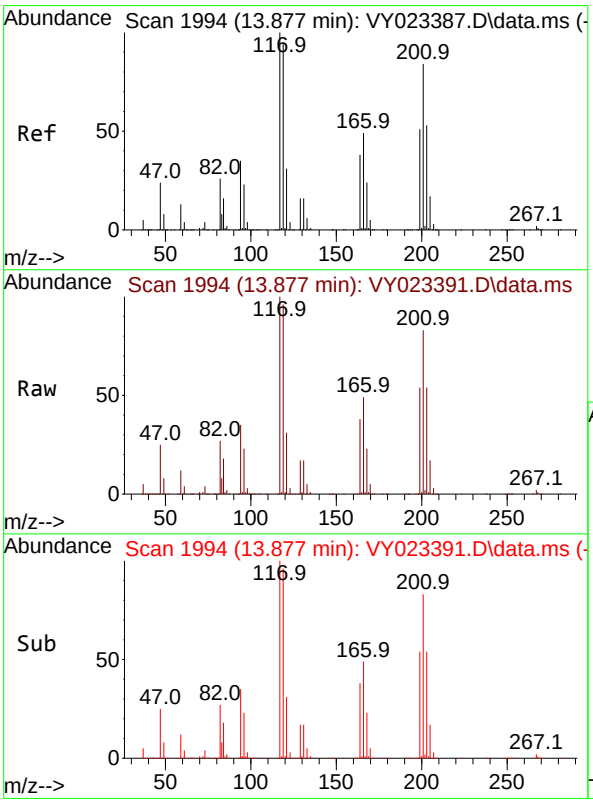
Ion	Ratio	Lower	Upper
91	100		
92	53.4	27.0	80.8
134	28.1	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

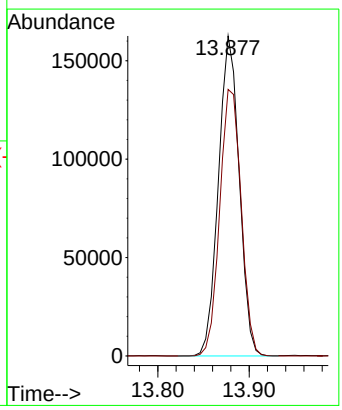
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

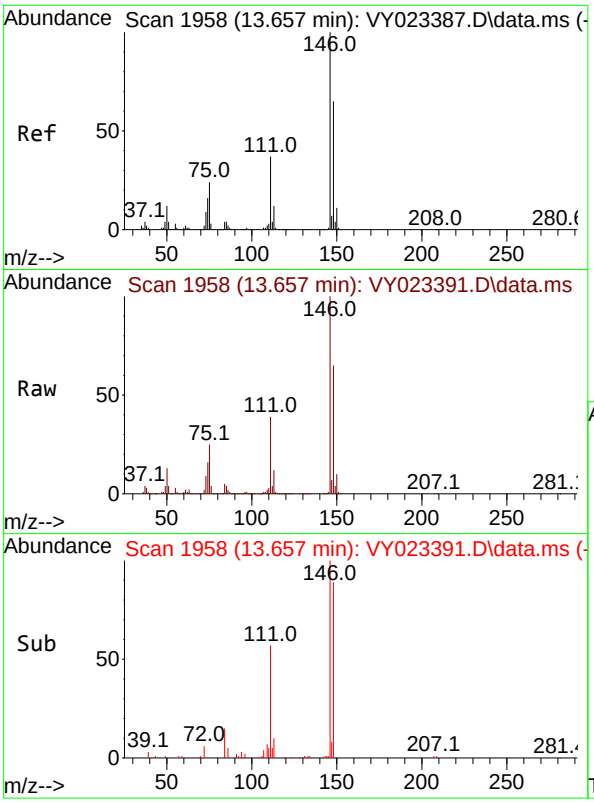


#90
Hexachloroethane
Concen: 49.116 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:117 Resp: 257335

Ion	Ratio	Lower	Upper
117	100		
201	85.7	43.8	131.4

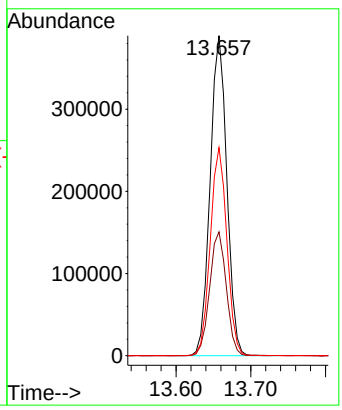




#91
1,2-Dichlorobenzene
Concen: 49.698 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:146 Resp: 60298

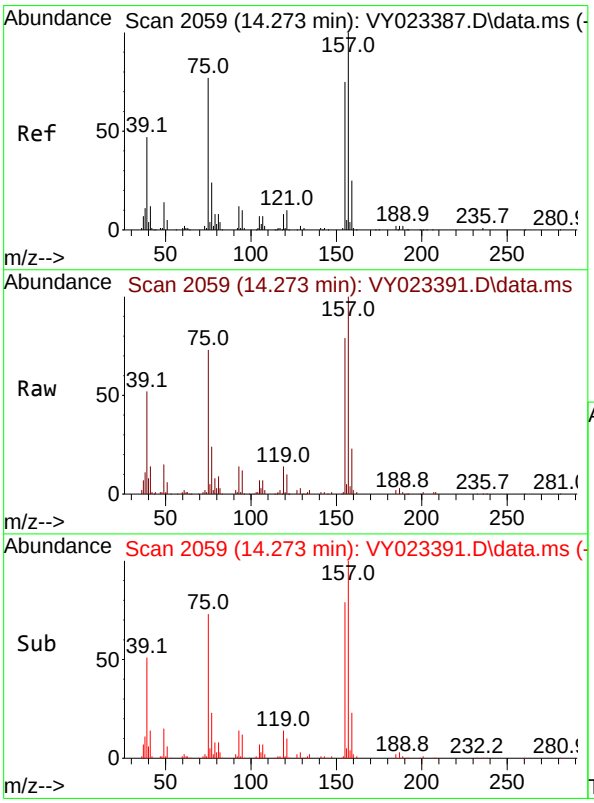
Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.0	57.0
148	64.8	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

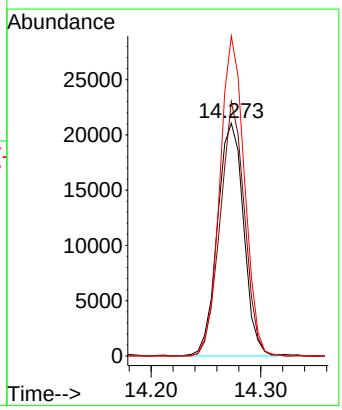
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

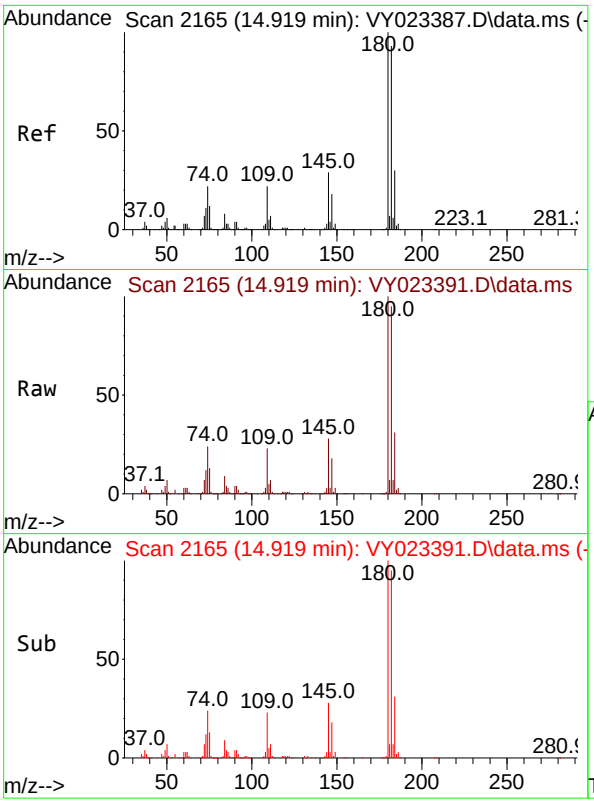


#92
1,2-Dibromo-3-Chloropropane
Concen: 48.687 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

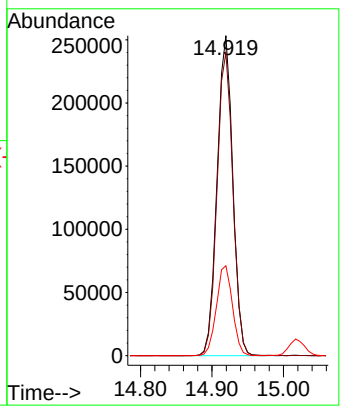




#93
1,2,4-Trichlorobenzene
Concen: 51.138 ug/l
RT: 14.919 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:180 Resp: 38680

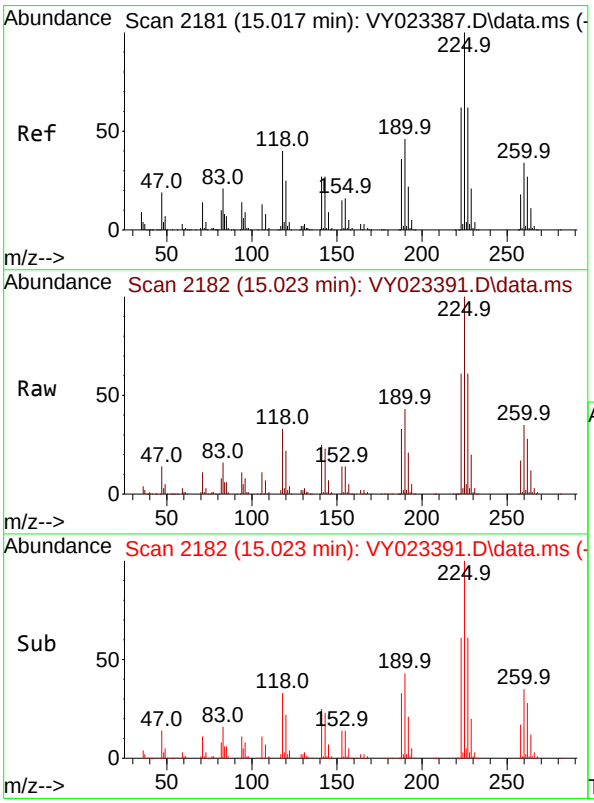
Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.9	143.6
145	28.8	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations APPROVED

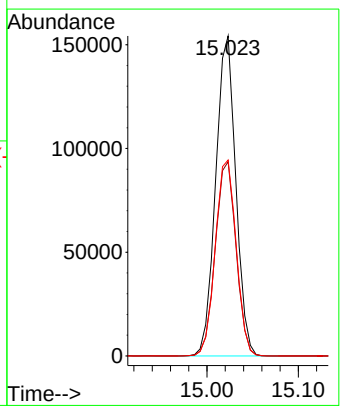
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025

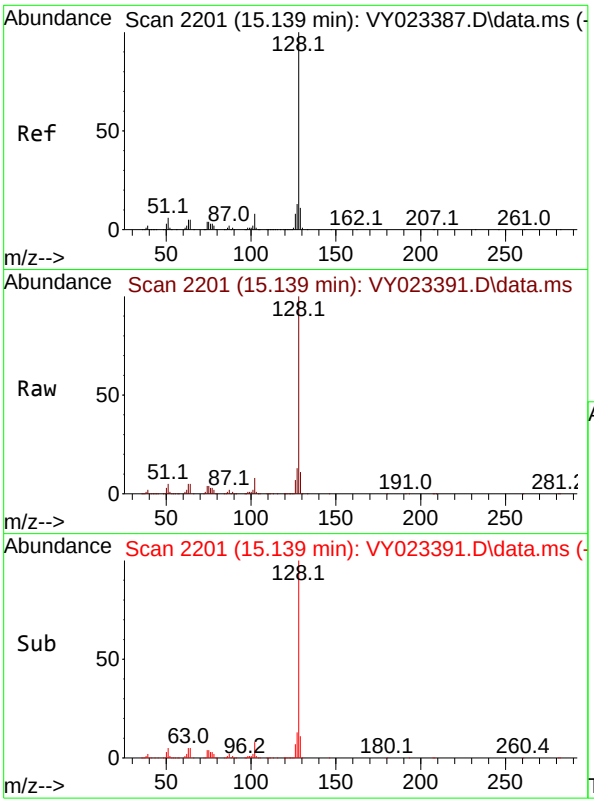


#94
Hexachlorobutadiene
Concen: 50.061 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

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

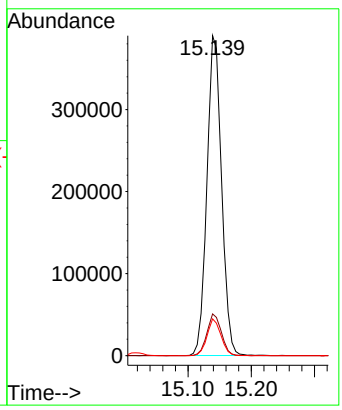




#95
Naphthalene
Concen: 52.154 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023391.D
Acq: 07 Oct 2025 14:12

Tgt Ion:128 Resp: 62819

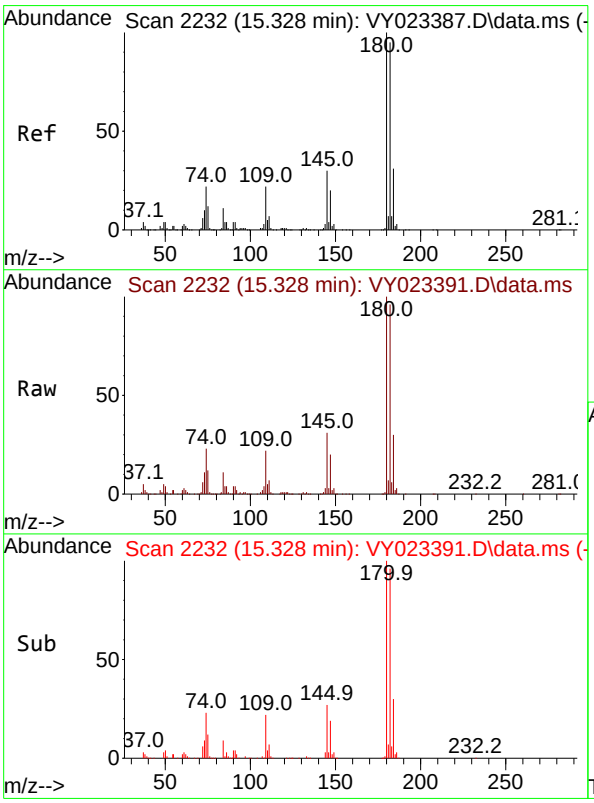
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.0	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
ICVVY100725

Manual Integrations
APPROVED

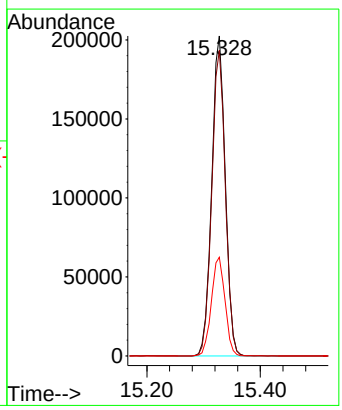
Reviewed By :Semsettin Yesilyurt 10/10/2025
Supervised By :Mahesh Dadoda 10/10/2025



#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

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	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:	AECO02
Lab Code:	ACE	SDG No.:	Q3393
Instrument ID:	MSVOA_W	Calibration Date/Time:	10/20/2025 10:20
Lab File ID:	VW032378.D	Init. Calib. Date(s):	10/01/2025 10/01/2025
Heated Purge: (Y/N)	Y	Init. Calib. Time(s):	13:12 15:20

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	0.314	0.311		-0.95	20
Chloromethane	0.484	0.459	0.1	-5.16	20
Vinyl Chloride	0.578	0.608		5.19	20
Bromomethane	0.425	0.444		4.47	20
Chloroethane	0.382	0.416		8.9	20
Trichlorofluoromethane	0.433	0.501		15.7	20
1,1,2-Trichlorotrifluoroethane	0.519	0.563		8.48	20
1,1-Dichloroethene	0.564	0.625		10.82	20
Acetone	0.202	0.196		-2.97	20
Carbon Disulfide	1.538	1.711		11.25	20
Methyl tert-butyl Ether	1.110	1.198		7.93	20
Methyl Acetate	0.578	0.649		12.28	20
Methylene Chloride	0.838	0.723		-13.72	20
trans-1,2-Dichloroethene	0.624	0.698		11.86	20
1,1-Dichloroethane	1.203	1.322	0.1	9.89	20
Cyclohexane	1.027	1.031		0.39	20
2-Butanone	0.275	0.276		0.36	20
Carbon Tetrachloride	0.430	0.504		17.21	20
cis-1,2-Dichloroethene	0.749	0.820		9.48	20
Bromochloromethane	0.566	0.610		7.77	20
Chloroform	1.220	1.377		12.87	20
1,1,1-Trichloroethane	0.864	0.981		13.54	20
Methylcyclohexane	0.551	0.593		7.62	20
Benzene	1.432	1.599		11.66	20
1,2-Dichloroethane	0.469	0.515		9.81	20
Trichloroethene	0.335	0.366		9.25	20
1,2-Dichloropropane	0.358	0.402		12.29	20
Bromodichloromethane	0.503	0.597		18.69	20
4-Methyl-2-Pentanone	0.313	0.344		9.9	20
Toluene	0.892	1.027		15.14	20
t-1,3-Dichloropropene	0.488	0.563		15.37	20
cis-1,3-Dichloropropene	0.562	0.643		14.41	20
1,1,2-Trichloroethane	0.294	0.336		14.29	20
2-Hexanone	0.220	0.244		10.91	20
Dibromochloromethane	0.334	0.413		23.65	20
1,2-Dibromoethane	0.287	0.319		11.15	20
Tetrachloroethene	0.299	0.315		5.35	20
Chlorobenzene	1.100	1.171	0.3	6.45	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:	AECO02
Lab Code:	ACE	SDG No.:	Q3393
Instrument ID:	MSVOA_W	Calibration Date/Time:	10/20/2025 10:20
Lab File ID:	VW032378.D	Init. Calib. Date(s):	10/01/2025 10/01/2025
Heated Purge: (Y/N)	Y	Init. Calib. Time(s):	13:12 15:20

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Ethyl Benzene	1.834	2.060		12.32	20
m/p-Xylenes	0.707	0.797		12.73	20
o-Xylene	0.661	0.740		11.95	20
Styrene	1.155	1.345		16.45	20
Bromoform	0.196	0.242	0.1	23.47	20
Isopropylbenzene	3.421	3.733		9.12	20
1,1,2,2-Tetrachloroethane	0.849	0.868	0.3	2.24	20
1,3-Dichlorobenzene	1.670	1.766		5.75	20
1,4-Dichlorobenzene	1.670	1.805		8.08	20
1,2-Dichlorobenzene	1.509	1.604		6.3	20
1,2-Dibromo-3-Chloropropane	0.149	0.158		6.04	20
1,2,4-Trichlorobenzene	0.905	0.957		5.75	20
1,2,3-Trichlorobenzene	0.853	0.902		5.74	20
1,2-Dichloroethane-d4	0.729	0.743		1.92	20
Dibromofluoromethane	0.324	0.347		7.1	20
Toluene-d8	1.195	1.278		6.95	20
4-Bromofluorobenzene	0.452	0.470		3.98	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_W\Data\VW102025\
Data File : VW032378.D
Acq On : 20 Oct 2025 10:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 01:22:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	7.965	168	276051	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	500417	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.629	117	466876	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	234766	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.319	65	205038	50.924 ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 101.840%		
35) Dibromofluoromethane	7.904	113	173699	53.598 ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 107.200%		
50) Toluene-d8	10.325	98	639666	53.480 ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 106.960%		
62) 4-Bromofluorobenzene	12.617	95	235180	52.021 ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 104.040%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.046	85	85790	49.525 ug/l	94
3) Chloromethane	2.259	50	126734	47.414 ug/l	100
4) Vinyl Chloride	2.405	62	167782	52.579 ug/l	98
5) Bromomethane	2.826	94	122514	52.244 ug/l	99
6) Chloroethane	2.972	64	114864	54.521 ug/l	94
7) Trichlorofluoromethane	3.308	101	138344	57.903 ug/l	91
8) Diethyl Ether	3.722	74	110844	53.538 ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.106	101	155412	54.231 ug/l	93
10) Methyl Iodide	4.307	142	232975	56.977 ug/l	97
11) Tert butyl alcohol	5.216	59	64740	212.423 ug/l	97
12) 1,1-Dichloroethene	4.076	96	172650	55.494 ug/l	92
13) Acrolein	3.936	56	43147	87.232 ug/l	97
14) Allyl chloride	4.704	41	281514	53.572 ug/l	90
15) Acrylonitrile	5.405	53	276868	257.055 ug/l	99
16) Acetone	4.167	43	269841	242.037 ug/l	98
17) Carbon Disulfide	4.417	76	472236	55.631 ug/l	99
18) Methyl Acetate	4.710	43	179023	56.056 ug/l	97
19) Methyl tert-butyl Ether	5.466	73	330675	53.964 ug/l	96
20) Methylene Chloride	4.960	84	199566	54.562 ug/l	94
21) trans-1,2-Dichloroethene	5.460	96	192705	55.946 ug/l	94
22) Diisopropyl ether	6.344	45	604917	55.352 ug/l	92
23) Vinyl Acetate	6.283	43	1937061	265.367 ug/l	98
24) 1,1-Dichloroethane	6.246	63	364897	54.958 ug/l	99
25) 2-Butanone	7.197	43	380931	250.876 ug/l	98
26) 2,2-Dichloropropane	7.185	77	193268	56.907 ug/l	99
27) cis-1,2-Dichloroethene	7.197	96	226473	54.730 ug/l	93
28) Bromochloromethane	7.532	49	168276	53.869 ug/l	88
29) Tetrahydrofuran	7.551	42	247520	259.216 ug/l	95
30) Chloroform	7.691	83	380098	56.448 ug/l	100
31) Cyclohexane	7.971	56	284615	50.212 ug/l	95
32) 1,1,1-Trichloroethane	7.892	97	270780	56.749 ug/l	99
36) 1,1-Dichloropropene	8.099	75	256579	56.099 ug/l	99
37) Ethyl Acetate	7.270	43	155800	51.178 ug/l	99
38) Carbon Tetrachloride	8.081	117	252146	58.585 ug/l	98
39) Methylcyclohexane	9.343	83	296823	53.803 ug/l	95
40) Benzene	8.337	78	800201	55.818 ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032378.D
Acq On : 20 Oct 2025 10:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 01:22:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	89114	54.317	ug/l		93
42) 1,2-Dichloroethane	8.410	62	257863	54.972	ug/l		99
43) Isopropyl Acetate	8.435	43	295528	54.722	ug/l		99
44) Trichloroethene	9.099	130	182918	54.492	ug/l		92
45) 1,2-Dichloropropane	9.374	63	200994	56.170	ug/l		100
46) Dibromomethane	9.465	93	123268	56.022	ug/l		95
47) Bromodichloromethane	9.654	83	298867	59.385	ug/l		98
48) Methyl methacrylate	9.441	41	138219	52.640	ug/l		95
49) 1,4-Dioxane	9.465	88	33056	1099.123	ug/l		95
51) 4-Methyl-2-Pentanone	10.215	43	860318	275.041	ug/l		99
52) Toluene	10.392	92	513800	57.552	ug/l		98
53) t-1,3-Dichloropropene	10.611	75	281818	57.719	ug/l		100
54) cis-1,3-Dichloropropene	10.075	75	321876	57.231	ug/l		94
55) 1,1,2-Trichloroethane	10.788	97	168313	57.233	ug/l		93
56) Ethyl methacrylate	10.648	69	231959	56.352	ug/l	#	94
57) 1,3-Dichloropropane	10.934	76	289077	55.655	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	629980	287.576	ug/l		96
59) 2-Hexanone	10.971	43	610396	276.684	ug/l		99
60) Dibromochloromethane	11.129	129	206640	61.883	ug/l		97
61) 1,2-Dibromoethane	11.239	107	159483	55.617	ug/l		97
64) Tetrachloroethene	10.867	164	147123	52.663	ug/l		96
65) Chlorobenzene	11.660	112	546708	53.221	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.733	131	188463	58.904	ug/l		99
67) Ethyl Benzene	11.733	91	961868	56.174	ug/l		98
68) m/p-Xylenes	11.837	106	744366	112.736	ug/l		100
69) o-Xylene	12.166	106	345708	55.988	ug/l		98
70) Styrene	12.178	104	628107	58.262	ug/l		98
71) Bromoform	12.349	173	112897	61.560	ug/l	#	95
73) Isopropylbenzene	12.464	105	876325	54.560	ug/l		100
74) N-amyl acetate	12.269	43	262286	51.189	ug/l		99
75) 1,1,2,2-Tetrachloroethane	12.714	83	203868	51.119	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	153664m	49.739	ug/l		
77) Bromobenzene	12.745	156	208716	53.907	ug/l		91
78) n-propylbenzene	12.800	91	1092673	54.462	ug/l		98
79) 2-Chlorotoluene	12.891	91	652667	53.203	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	752875	54.209	ug/l		97
81) trans-1,4-Dichloro-2-b...	12.513	75	70326	57.667	ug/l		92
82) 4-Chlorotoluene	12.983	91	709987	54.437	ug/l		98
83) tert-Butylbenzene	13.202	119	640849	56.237	ug/l		99
84) 1,2,4-Trimethylbenzene	13.245	105	771106	54.602	ug/l		99
85) sec-Butylbenzene	13.379	105	936126	53.756	ug/l		99
86) p-Isopropyltoluene	13.495	119	800220	55.381	ug/l		99
87) 1,3-Dichlorobenzene	13.495	146	414615	52.884	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	423851	54.068	ug/l		96
89) n-Butylbenzene	13.818	91	753562	53.414	ug/l		98
90) Hexachloroethane	14.086	117	154192	59.535	ug/l		95
91) 1,2-Dichlorobenzene	13.861	146	376678	53.150	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.476	75	37022	53.021	ug/l		89
93) 1,2,4-Trichlorobenzene	15.123	180	224715	52.878	ug/l		99
94) Hexachlorobutadiene	15.226	225	105887	54.498	ug/l		92
95) Naphthalene	15.360	128	542330	53.140	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	211711	52.854	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032378.D
Acq On : 20 Oct 2025 10:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 21 01:22:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

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

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

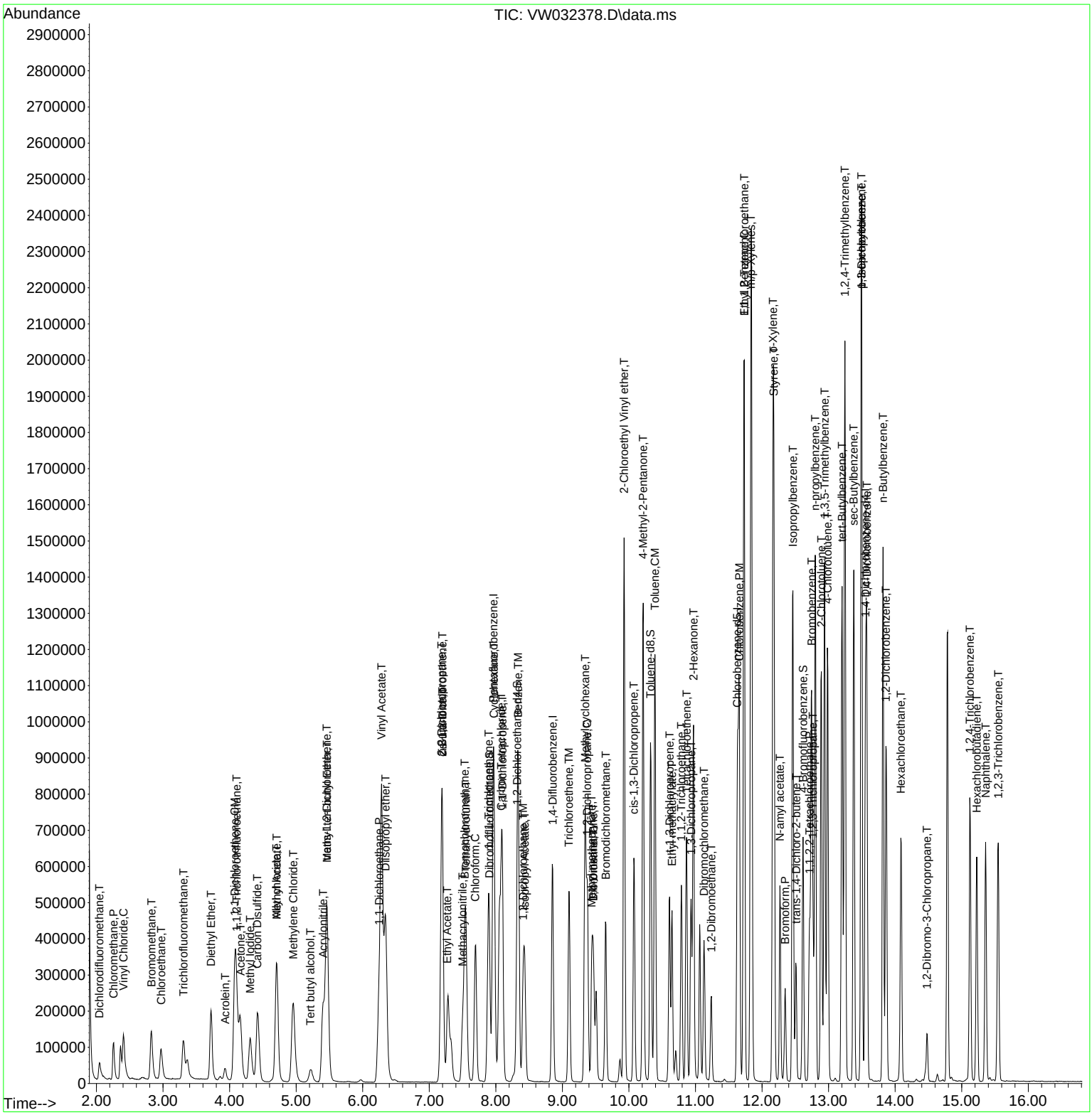
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032378.D
Acq On : 20 Oct 2025 10:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

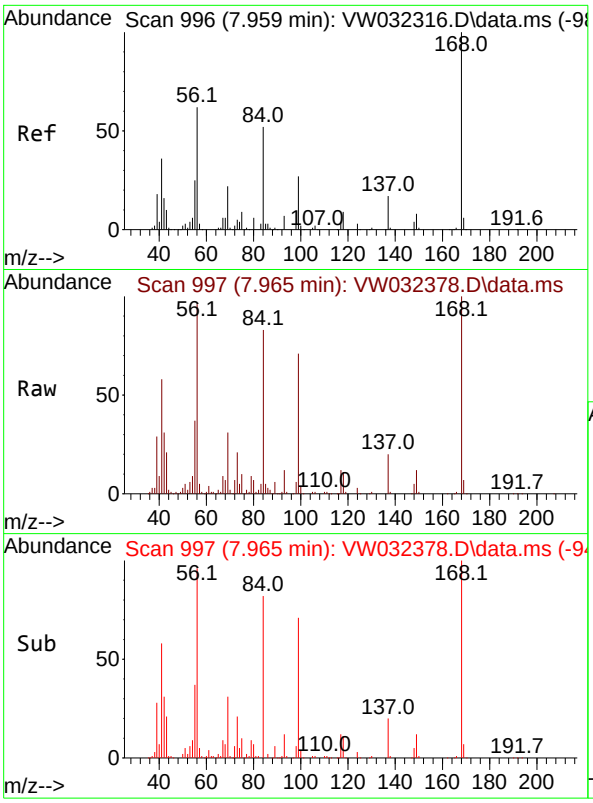
Quant Time: Oct 21 01:22:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

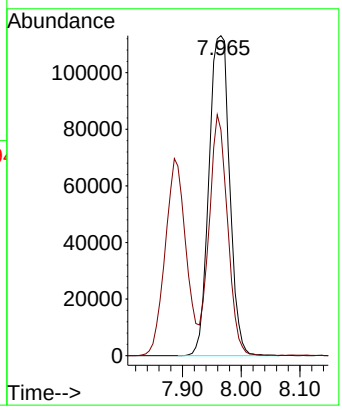




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:168 Resp: 27605

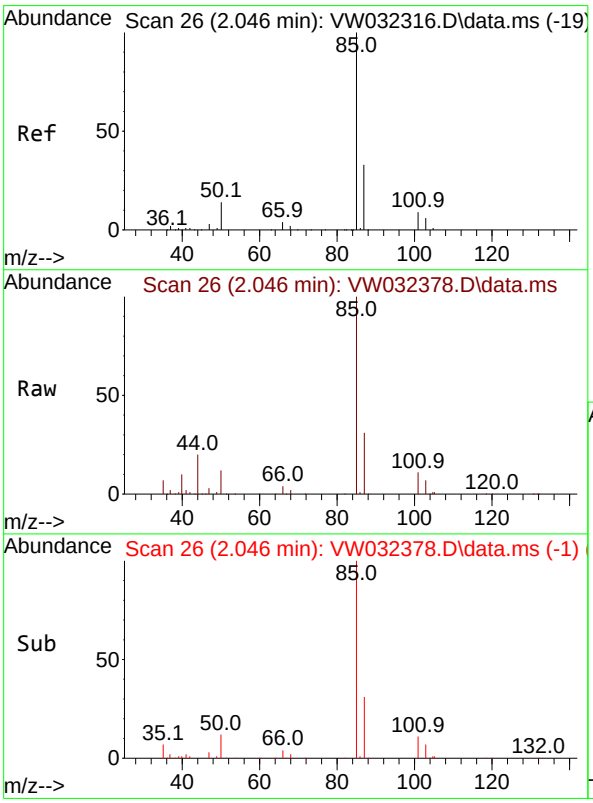
Ion	Ratio	Lower	Upper
168	100		
99	70.4	49.3	73.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

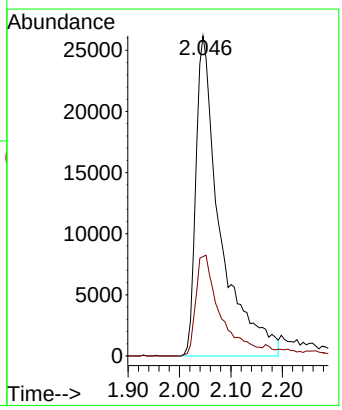
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

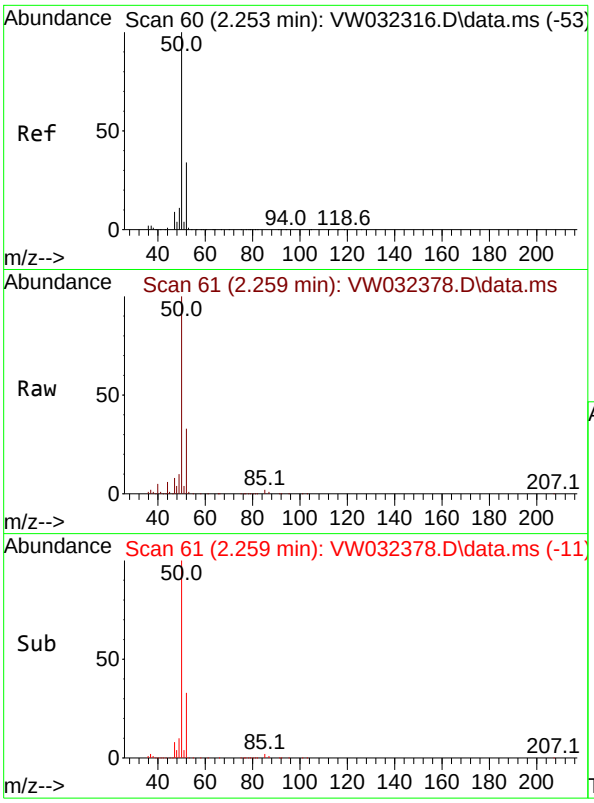


#2
Dichlorodifluoromethane
Concen: 49.525 ug/l
RT: 2.046 min Scan# 26
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 85 Resp: 85790

Ion	Ratio	Lower	Upper
85	100		
87	31.0	17.2	51.6

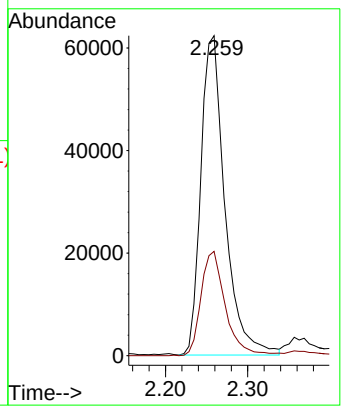




#3
Chloromethane
Concen: 47.414 ug/l
RT: 2.259 min Scan# 6
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 50 Resp: 12673

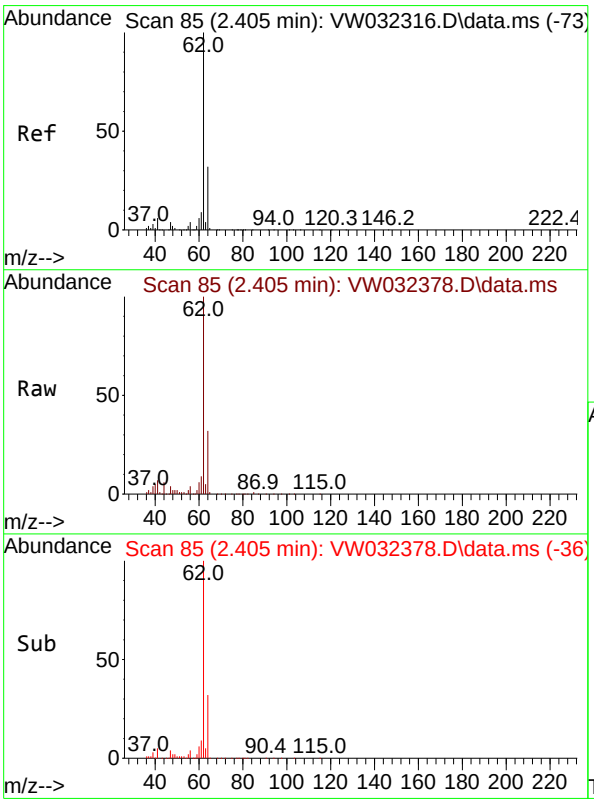
Ion	Ratio	Lower	Upper
50	100		
52	32.6	26.1	39.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

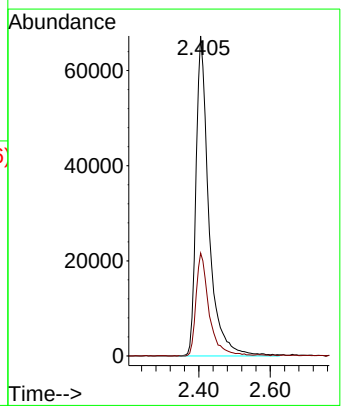
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

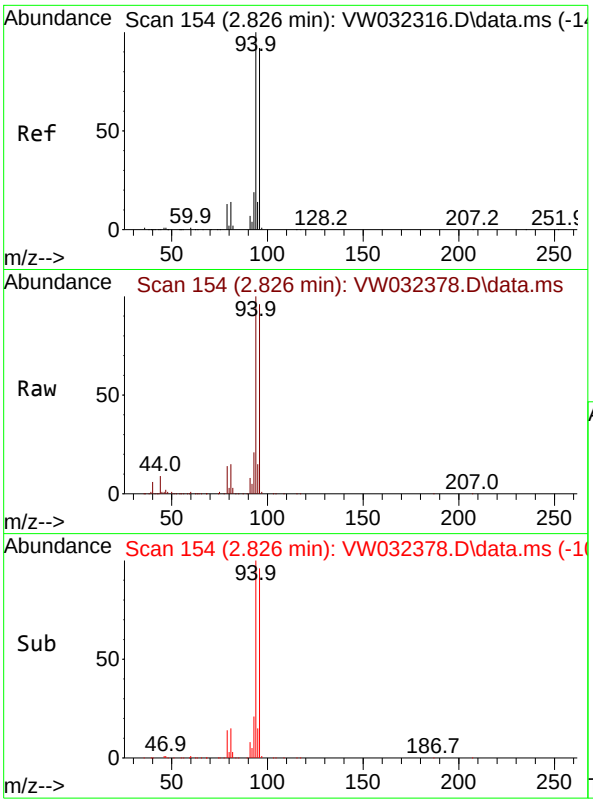


#4
Vinyl Chloride
Concen: 52.579 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 62 Resp: 167782

Ion	Ratio	Lower	Upper
62	100		
64	32.0	24.8	37.2

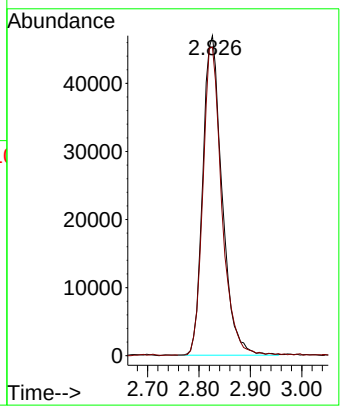




#5
Bromomethane
Concen: 52.244 ug/l
RT: 2.826 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 94 Resp: 12251

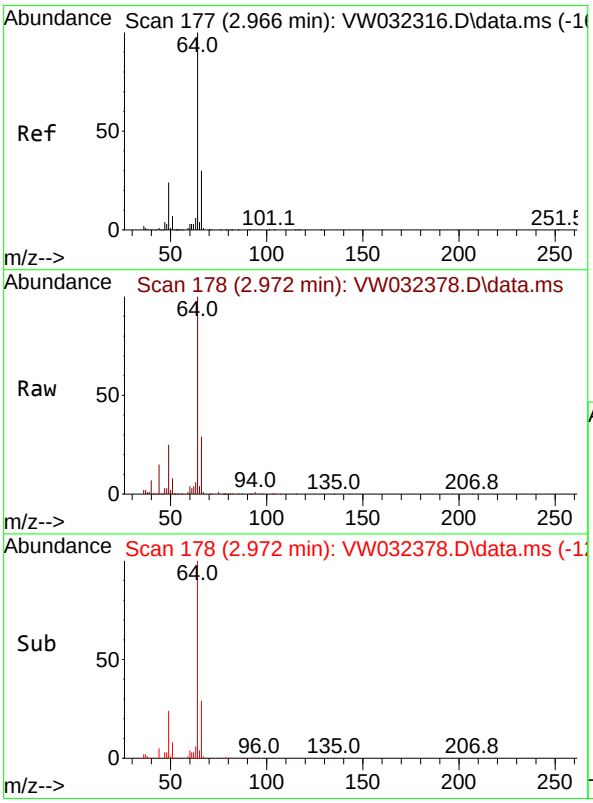
Ion	Ratio	Lower	Upper
94	100		
96	96.3	76.6	115.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

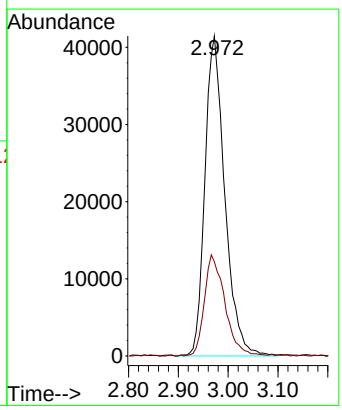
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

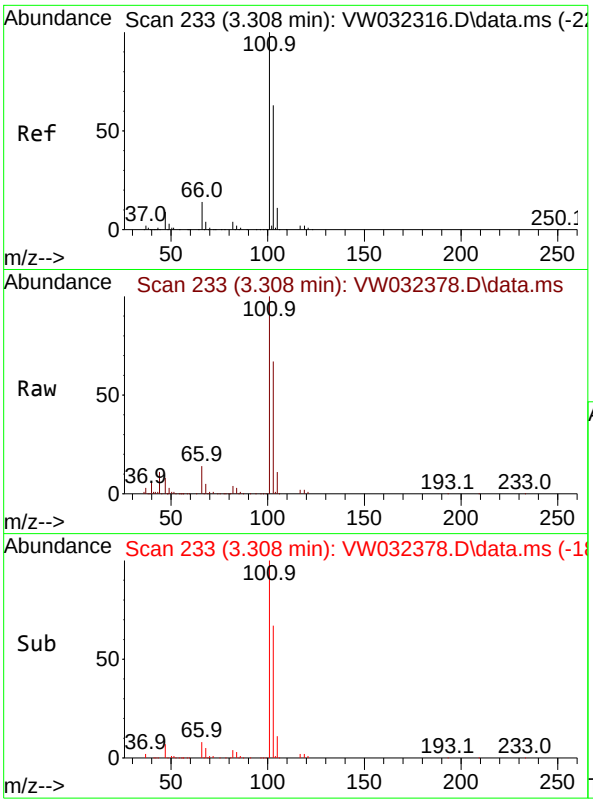


#6
Chloroethane
Concen: 54.521 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 64 Resp: 114864

Ion	Ratio	Lower	Upper
64	100		
66	29.2	26.2	39.4

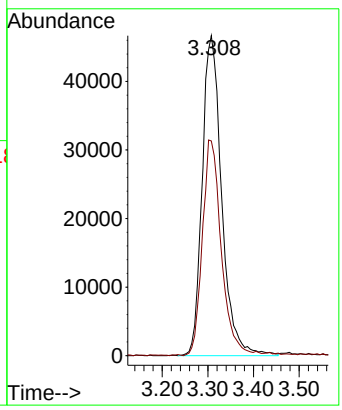




#7
Trichlorofluoromethane
Concen: 57.903 ug/l
RT: 3.308 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:101 Resp: 13834

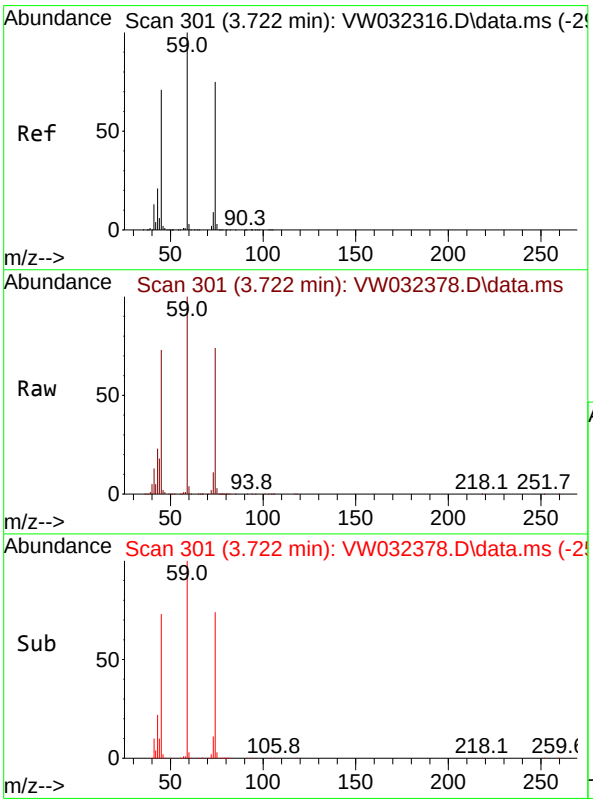
Ion	Ratio	Lower	Upper
101	100		
103	66.8	47.8	71.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

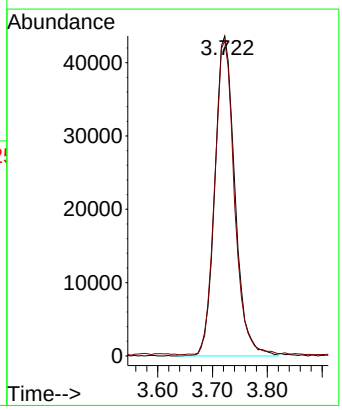
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

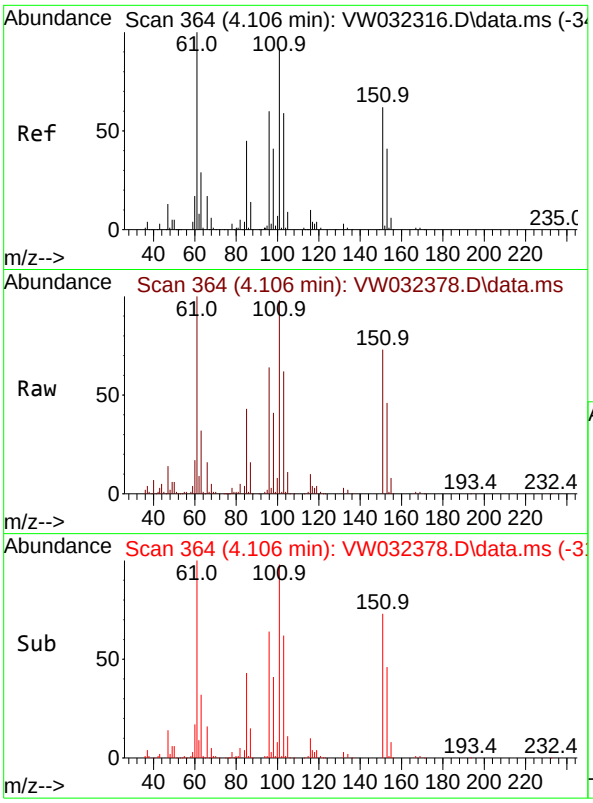


#8
Diethyl Ether
Concen: 53.538 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 74 Resp: 110844

Ion	Ratio	Lower	Upper
74	100		
45	96.3	43.1	129.4





#9
1,1,2-Trichlorotrifluoroethane
Concen: 54.231 ug/l
RT: 4.106 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

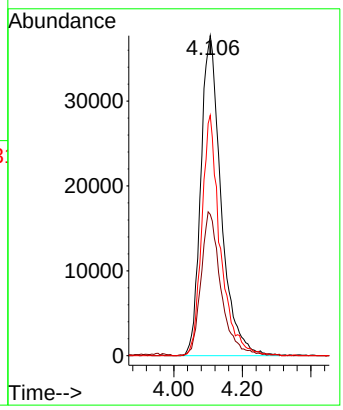
Tgt Ion:101 Resp: 15541

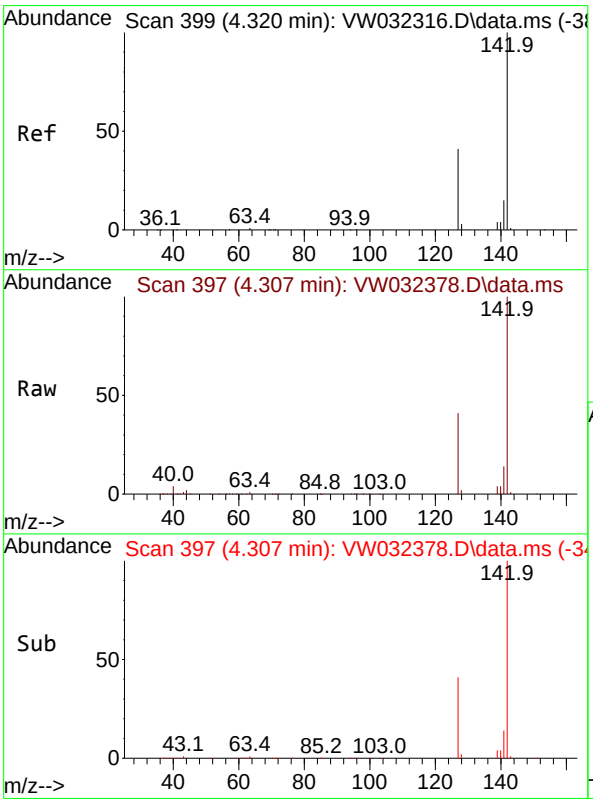
Ion	Ratio	Lower	Upper
101	100		
85	44.0	37.1	55.7
151	68.5	61.5	92.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

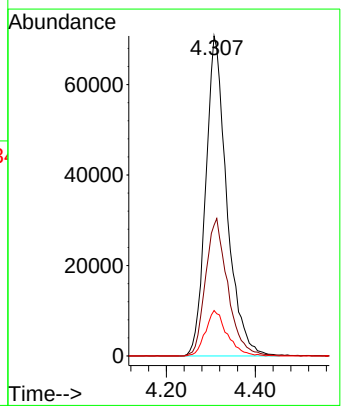


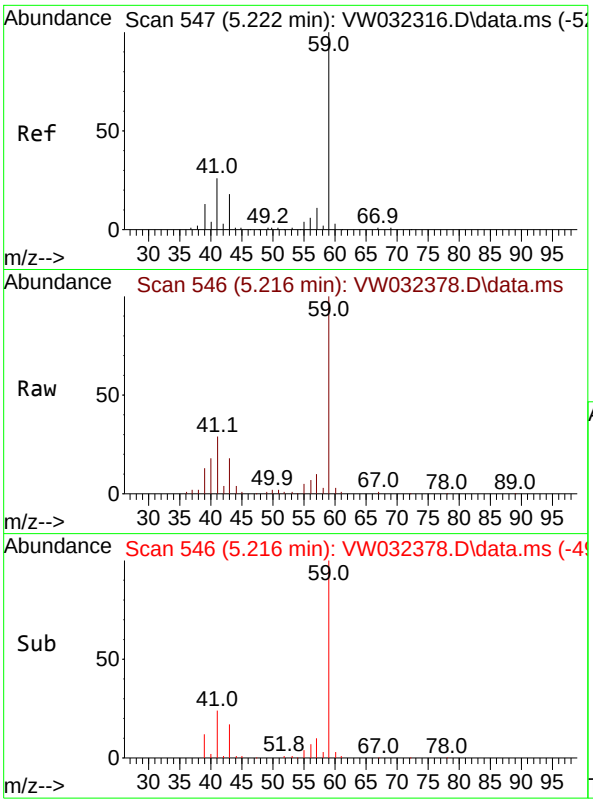


#10
Methyl Iodide
Concen: 56.977 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:142 Resp: 232975

Ion	Ratio	Lower	Upper
142	100		
127	45.4	38.2	57.2
141	14.7	12.2	18.2

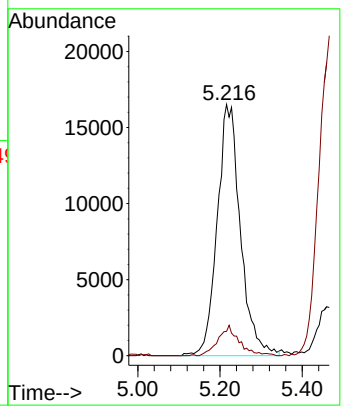




#11
Tert butyl alcohol
Concen: 212.423 ug/l
RT: 5.216 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 59 Resp: 6474

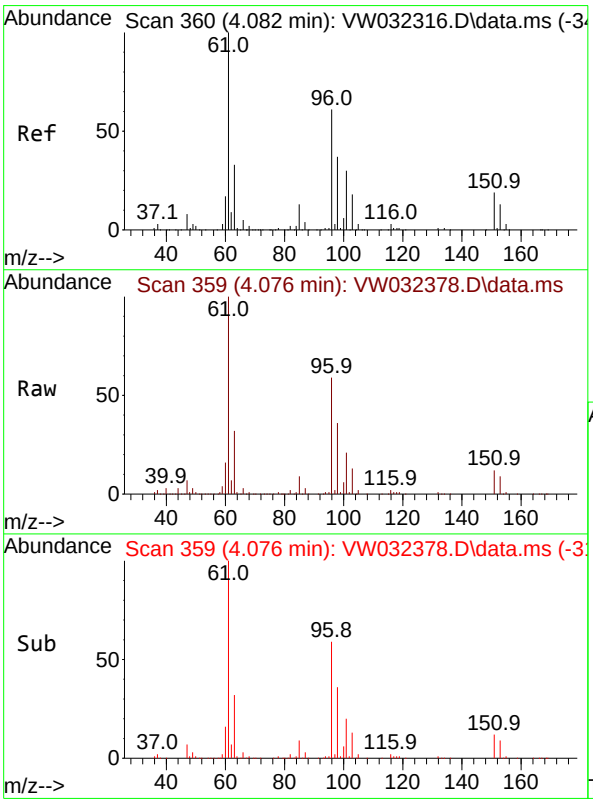
Ion	Ratio	Lower	Upper
59	100		
57	10.9	9.8	14.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

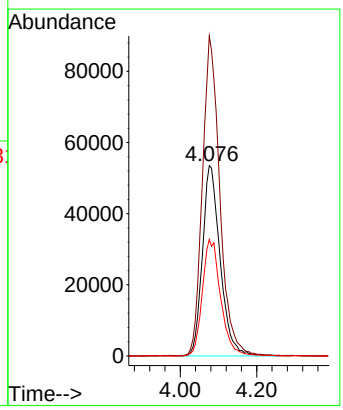
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

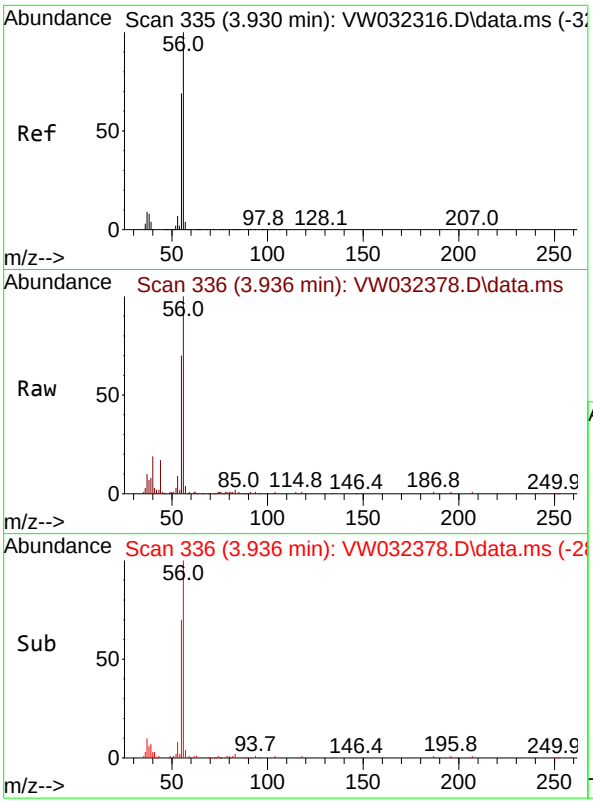


#12
1,1-Dichloroethene
Concen: 55.494 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 96 Resp: 172650

Ion	Ratio	Lower	Upper
96	100		
61	168.0	123.0	184.4
98	61.1	48.5	72.7

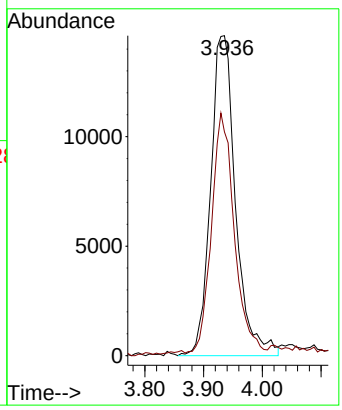




#13
Acrolein
Concen: 87.232 ug/l
RT: 3.936 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 56 Resp: 4314

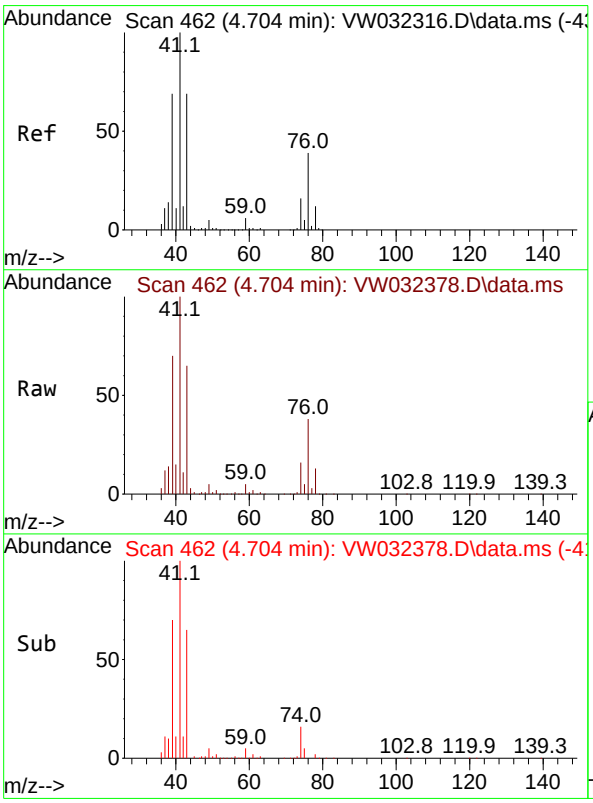
Ion	Ratio	Lower	Upper
56	100		
55	68.0	56.4	84.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

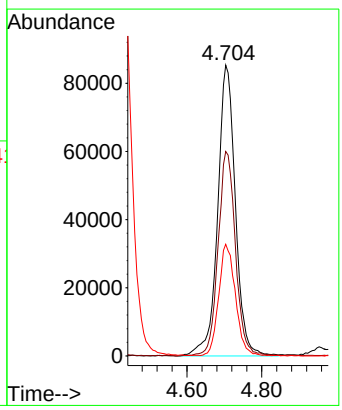
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

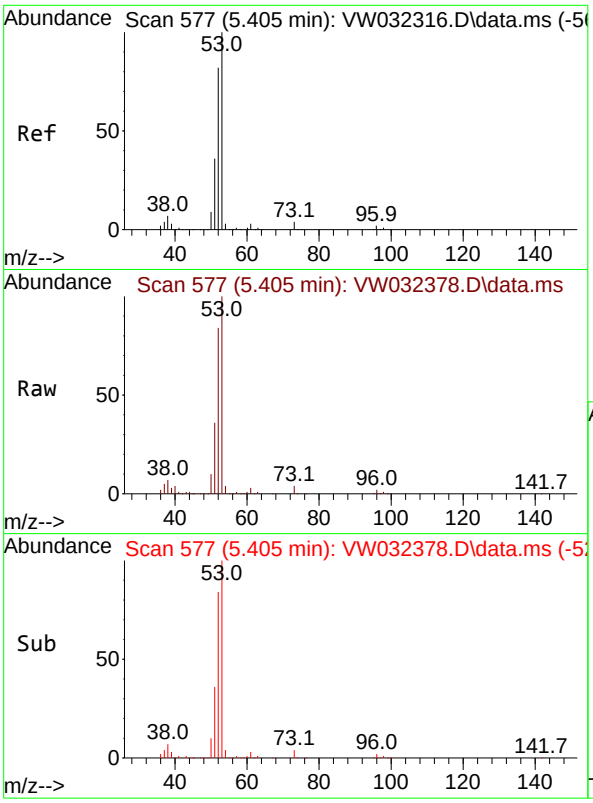


#14
Allyl chloride
Concen: 53.572 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 41 Resp: 281514

Ion	Ratio	Lower	Upper
41	100		
39	69.1	64.1	96.1
76	35.9	31.4	47.2





#15
Acrylonitrile
Concen: 257.055 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

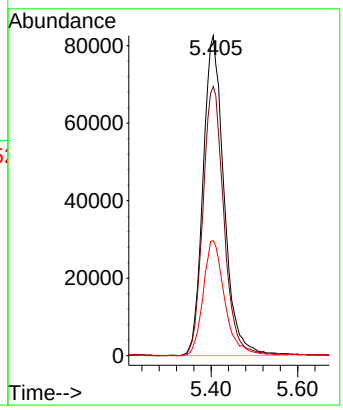
Tgt Ion: 53 Resp: 27686

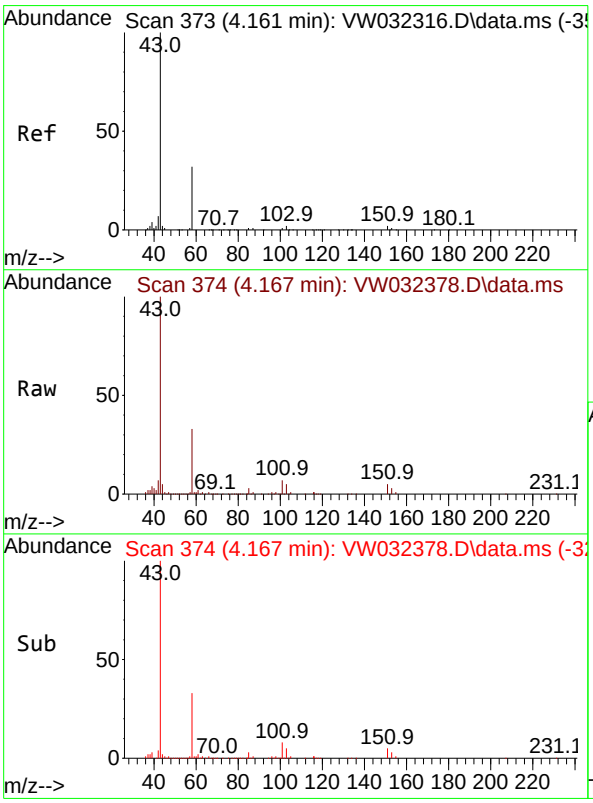
Ion	Ratio	Lower	Upper
53	100		
52	83.8	67.4	101.2
51	37.4	30.3	45.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

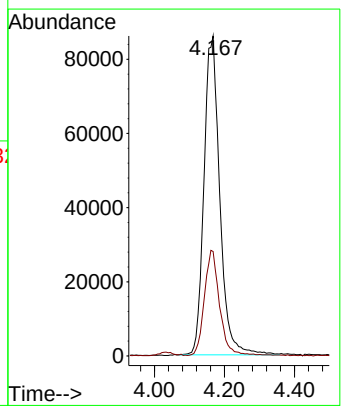


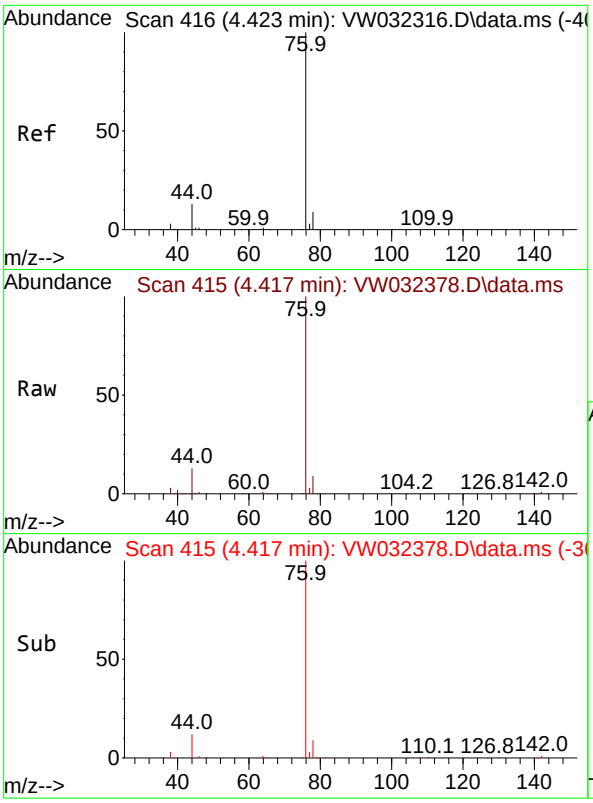


#16
Acetone
Concen: 242.037 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 43 Resp: 269841

Ion	Ratio	Lower	Upper
43	100		
58	32.5	25.3	37.9

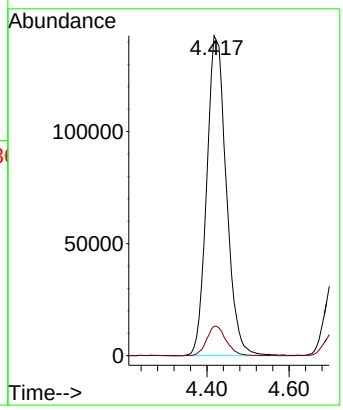




#17
Carbon Disulfide
Concen: 55.631 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 76 Resp: 47223

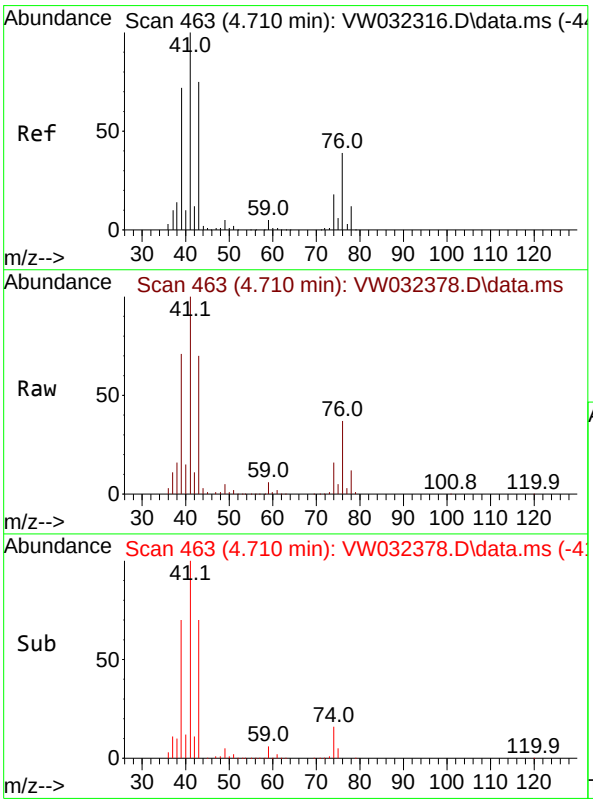
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

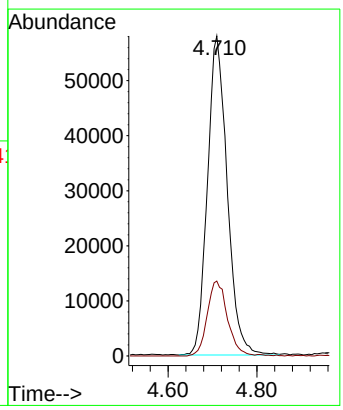
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

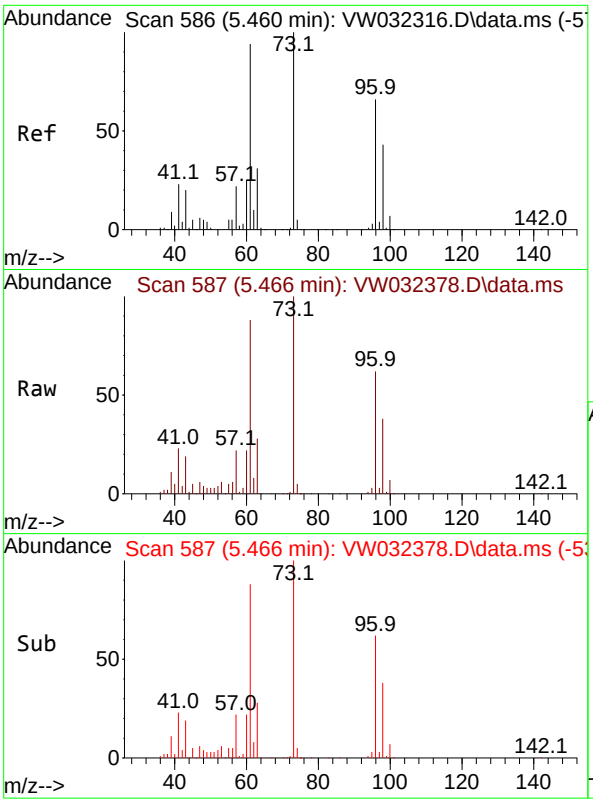


#18
Methyl Acetate
Concen: 56.056 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 43 Resp: 179023

Ion	Ratio	Lower	Upper
43	100		
74	23.9	20.2	30.4

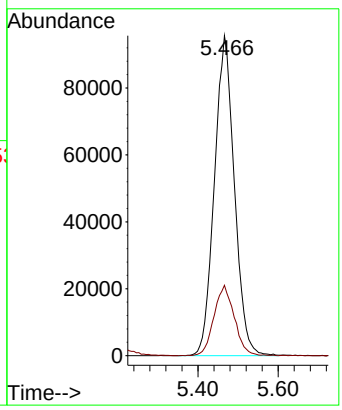




#19
Methyl tert-butyl Ether
Concen: 53.964 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 73 Resp: 33067

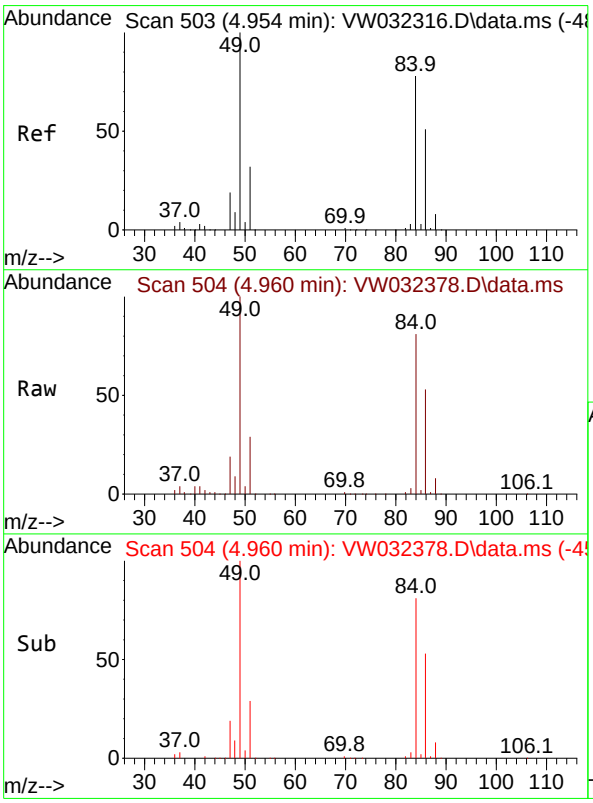
Ion	Ratio	Lower	Upper
73	100		
57	22.0	16.2	24.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

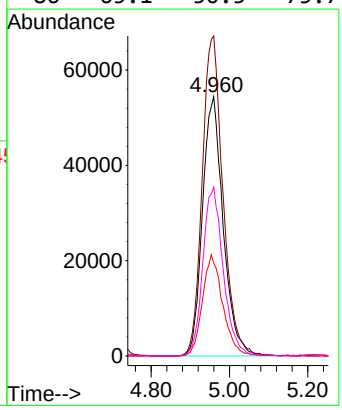
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

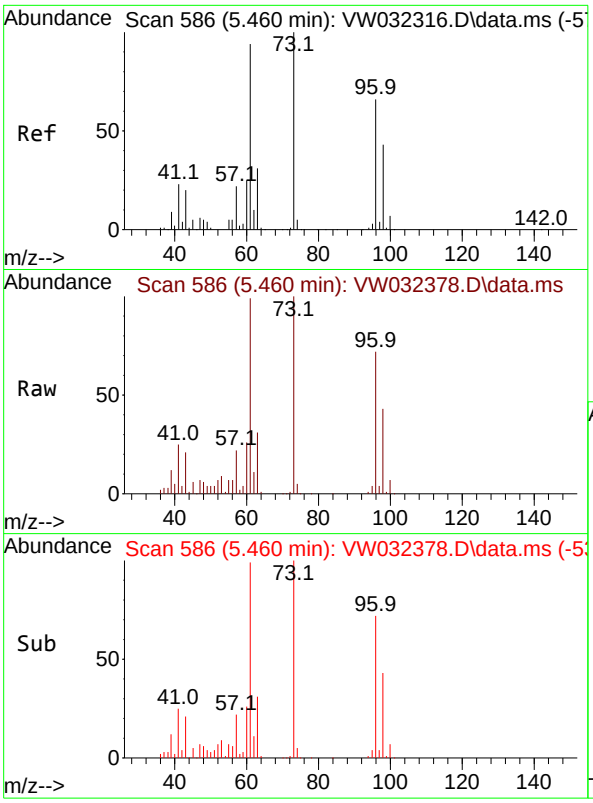


#20
Methylene Chloride
Concen: 54.562 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 84 Resp: 199566

Ion	Ratio	Lower	Upper
84	100		
49	123.4	92.2	138.4
51	35.8	31.0	46.6
86	65.1	50.5	75.7

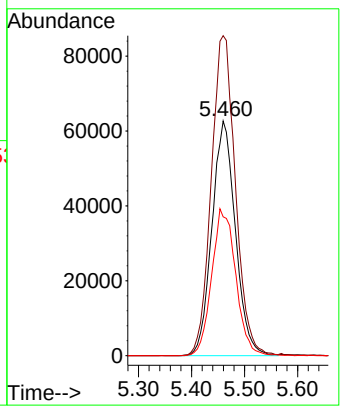




#21
trans-1,2-Dichloroethene
Concen: 55.946 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 96 Resp: 19270

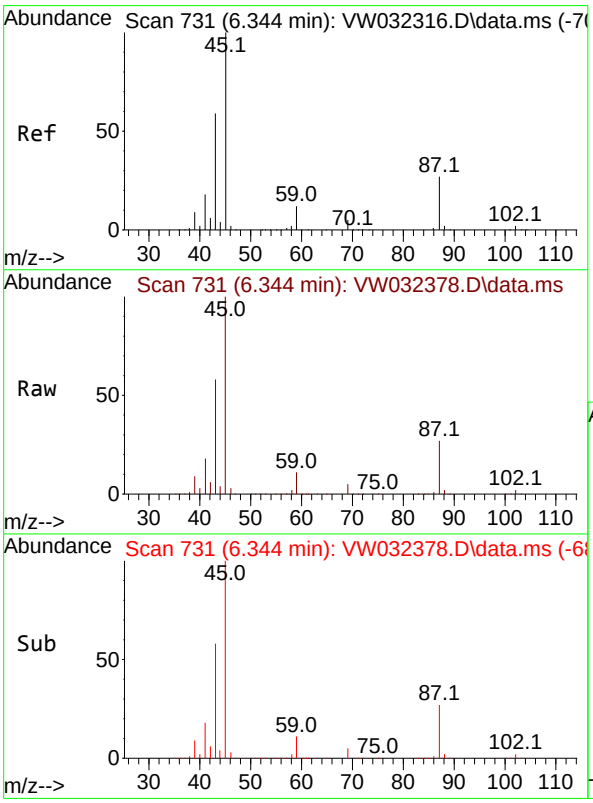
Ion	Ratio	Lower	Upper
96	100		
61	136.3	112.5	168.7
98	59.2	54.2	81.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

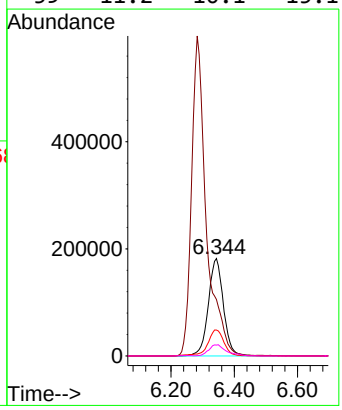
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

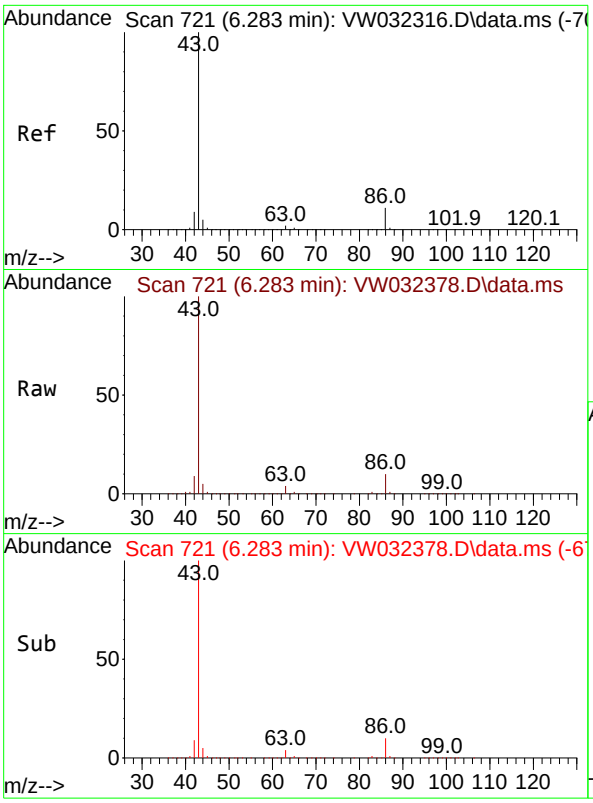


#22
Diisopropyl ether
Concen: 55.352 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 45 Resp: 604917

Ion	Ratio	Lower	Upper
45	100		
43	57.6	51.4	77.2
87	26.6	25.9	38.9
59	11.2	10.1	15.1

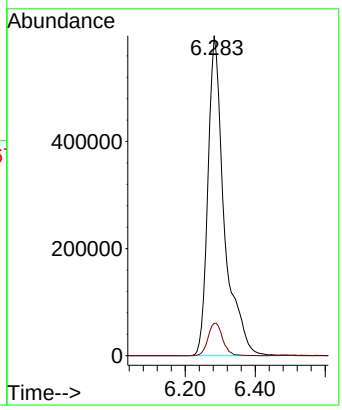




#23
Vinyl Acetate
Concen: 265.367 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 43 Resp: 193706

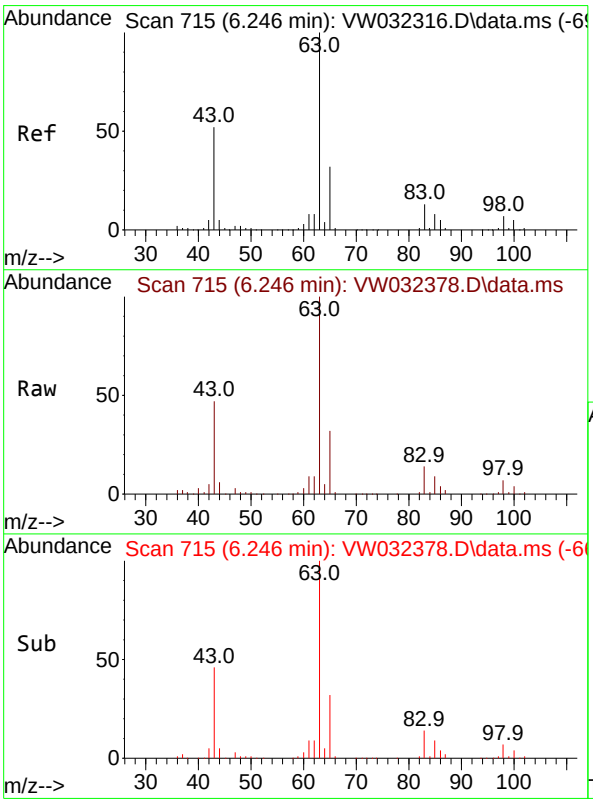
Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.8	13.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

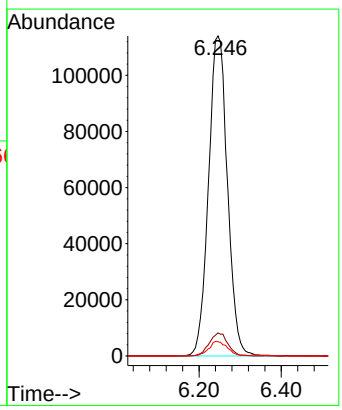
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

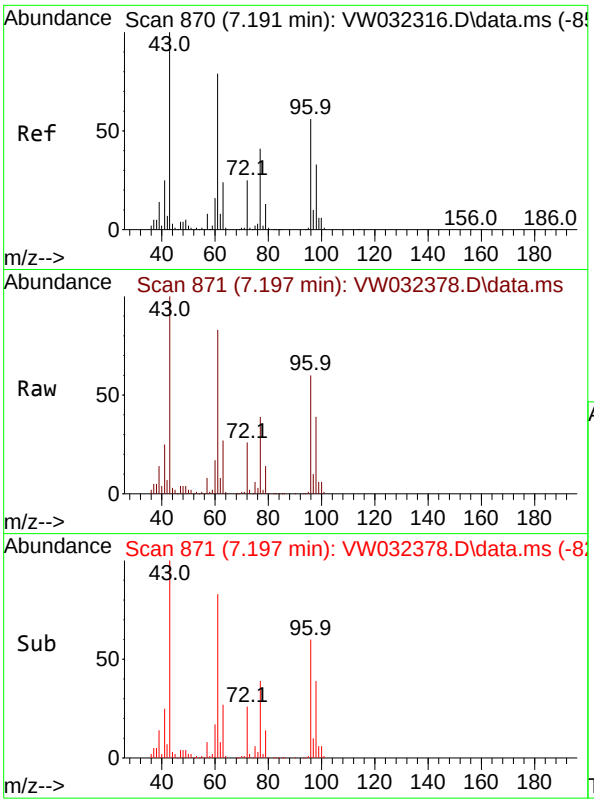


#24
1,1-Dichloroethane
Concen: 54.958 ug/l
RT: 6.246 min Scan# 715
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 63 Resp: 364897

Ion	Ratio	Lower	Upper
63	100		
98	7.2	3.8	11.2
100	4.5	2.5	7.5

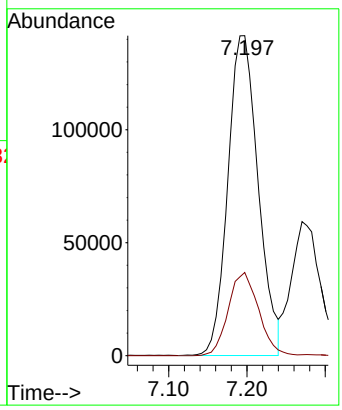




#25
2-Butanone
Concen: 250.876 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 43 Resp: 38093

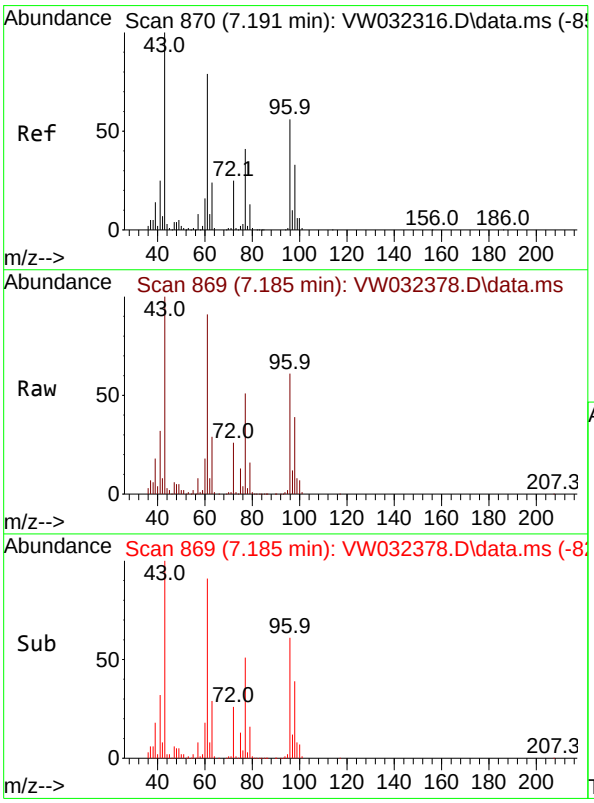
Ion	Ratio	Lower	Upper
43	100		
72	26.0	21.4	32.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

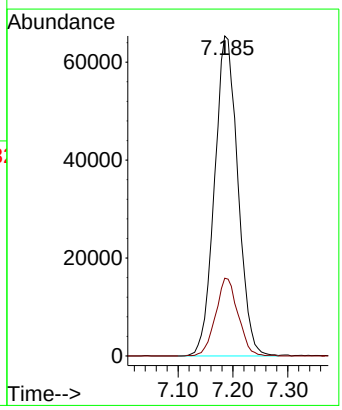
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

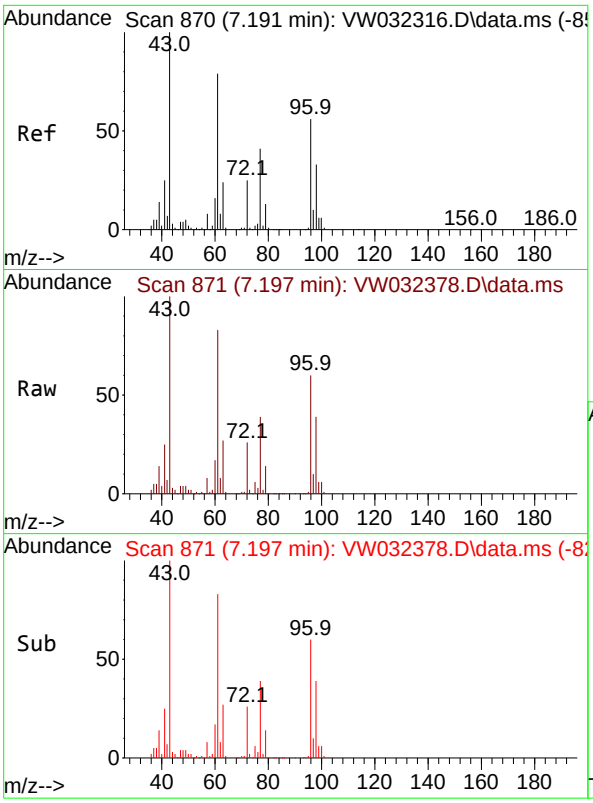


#26
2,2-Dichloropropane
Concen: 56.907 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 77 Resp: 193268

Ion	Ratio	Lower	Upper
77	100		
97	23.4	11.9	35.5

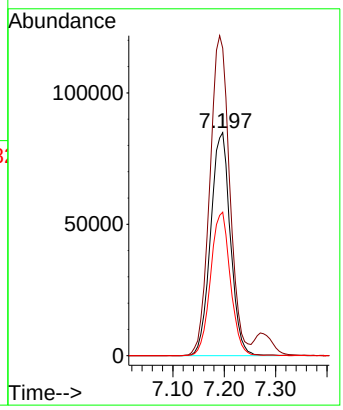




#27
cis-1,2-Dichloroethene
Concen: 54.730 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 96 Resp: 22647

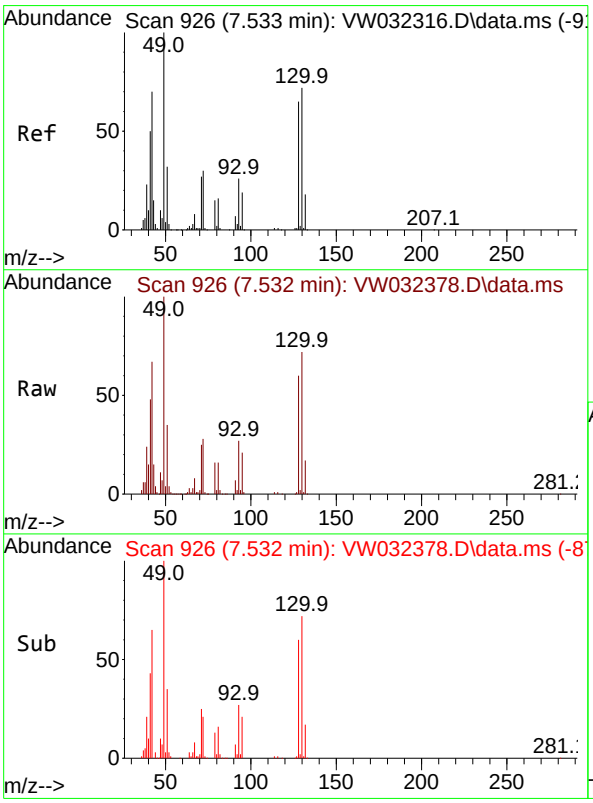
Ion	Ratio	Lower	Upper
96	100		
61	144.9	0.0	268.0
98	64.3	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

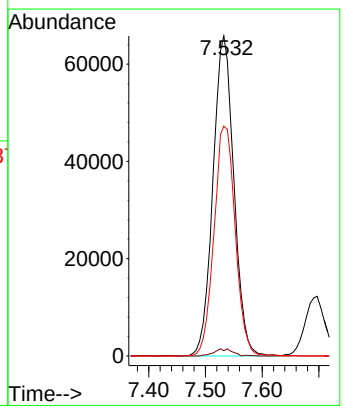
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

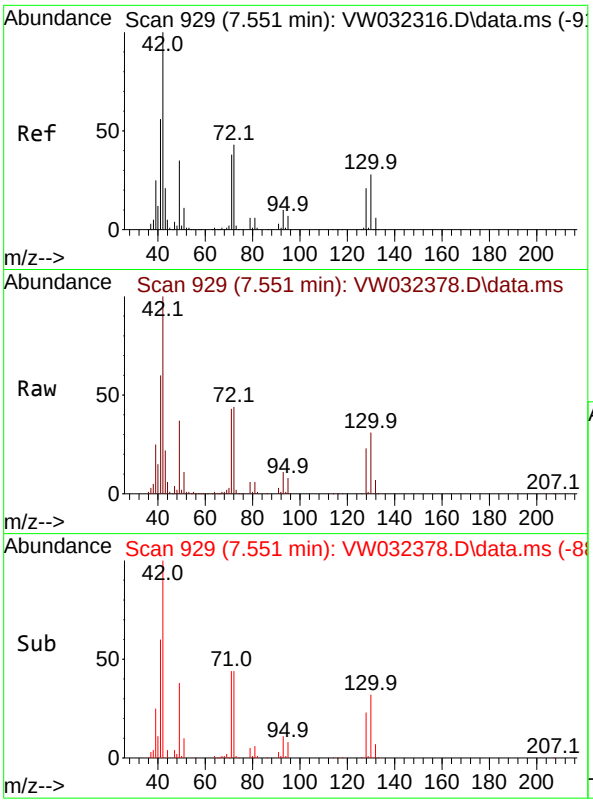


#28
Bromochloromethane
Concen: 53.869 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 49 Resp: 168276

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	73.1	67.5	101.3

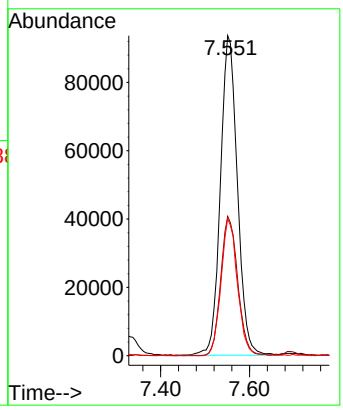




#29
Tetrahydrofuran
Concen: 259.216 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

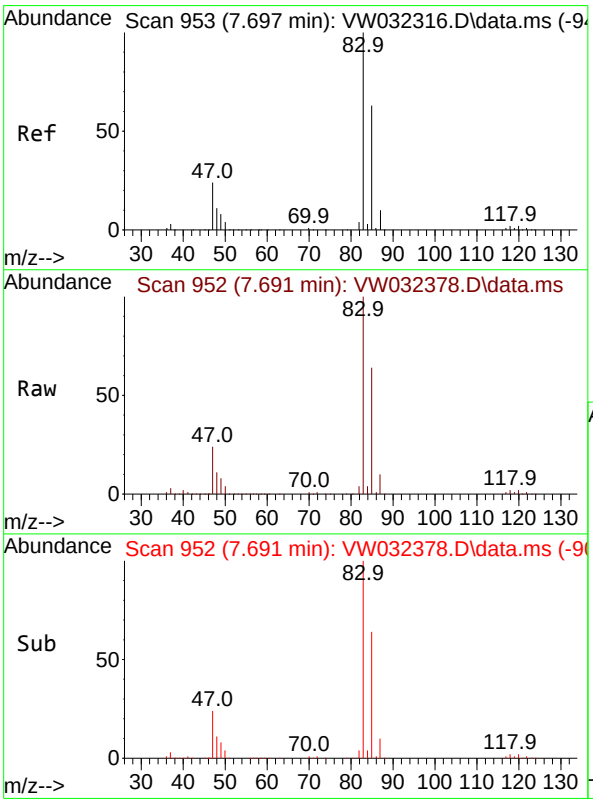
Tgt Ion: 42 Resp: 24752

Ion	Ratio	Lower	Upper
42	100		
72	43.6	37.4	56.2
71	41.5	36.0	54.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

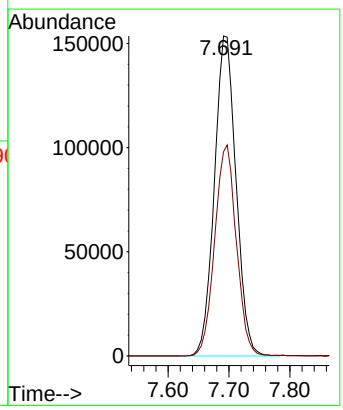
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

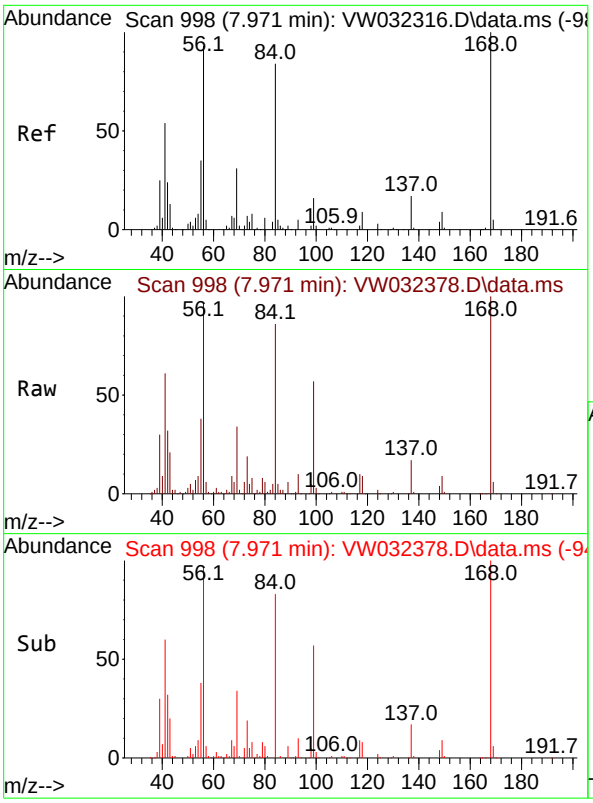


#30
Chloroform
Concen: 56.448 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 83 Resp: 380098

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.2	76.8

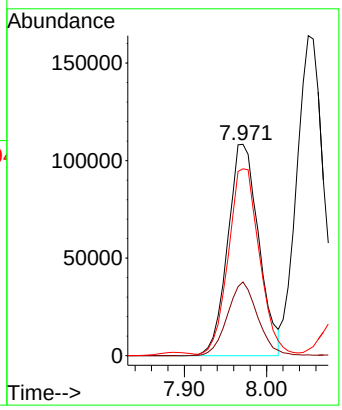




#31
Cyclohexane
Concen: 50.212 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 56 Resp: 28461

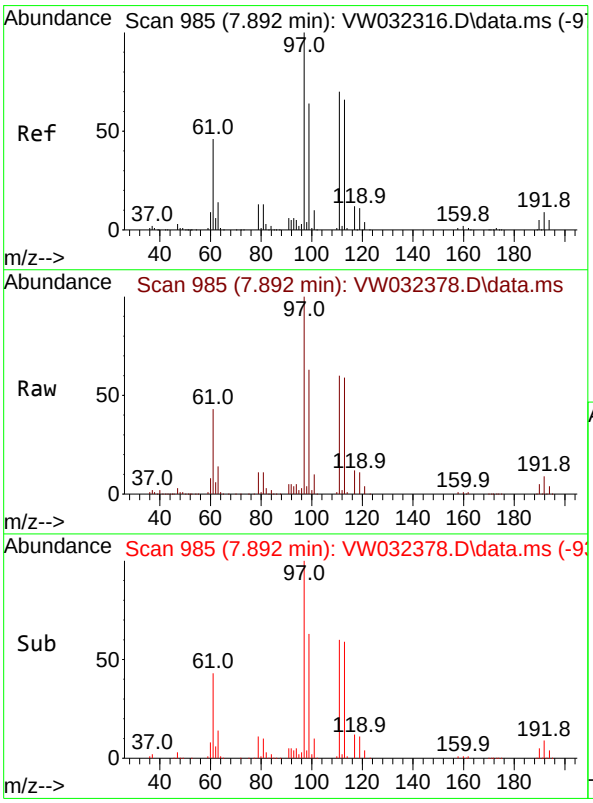
Ion	Ratio	Lower	Upper
56	100		
69	34.9	27.7	41.5
84	86.9	74.6	112.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

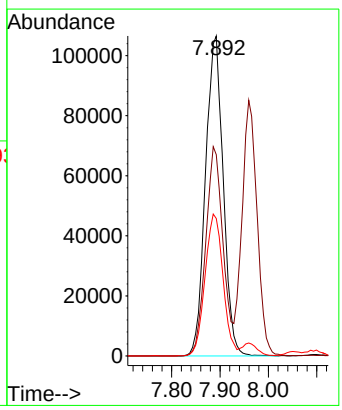
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

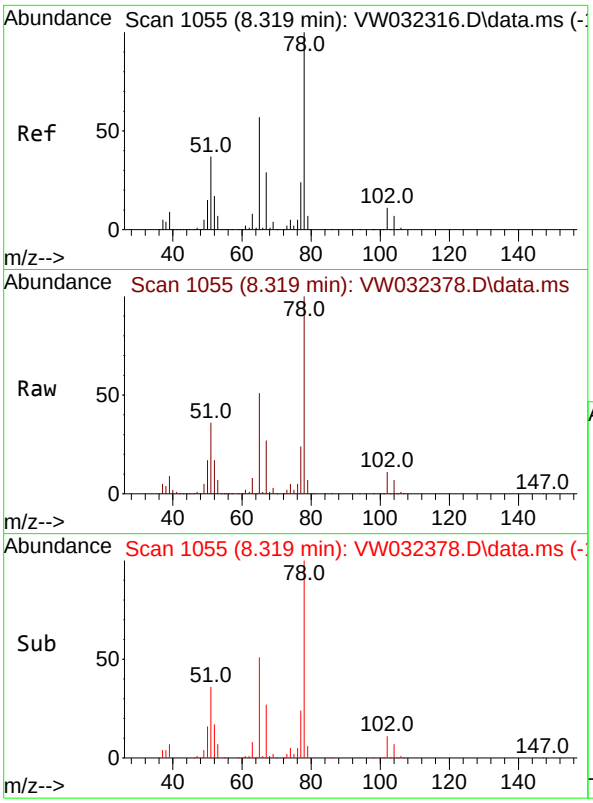


#32
1,1,1-Trichloroethane
Concen: 56.749 ug/l
RT: 7.892 min Scan# 985
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 97 Resp: 270780

Ion	Ratio	Lower	Upper
97	100		
99	64.3	50.9	76.3
61	45.2	36.2	54.4

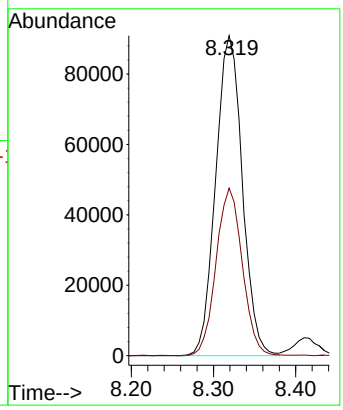




#33
1,2-Dichloroethane-d4
Concen: 50.924 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 65 Resp: 20503

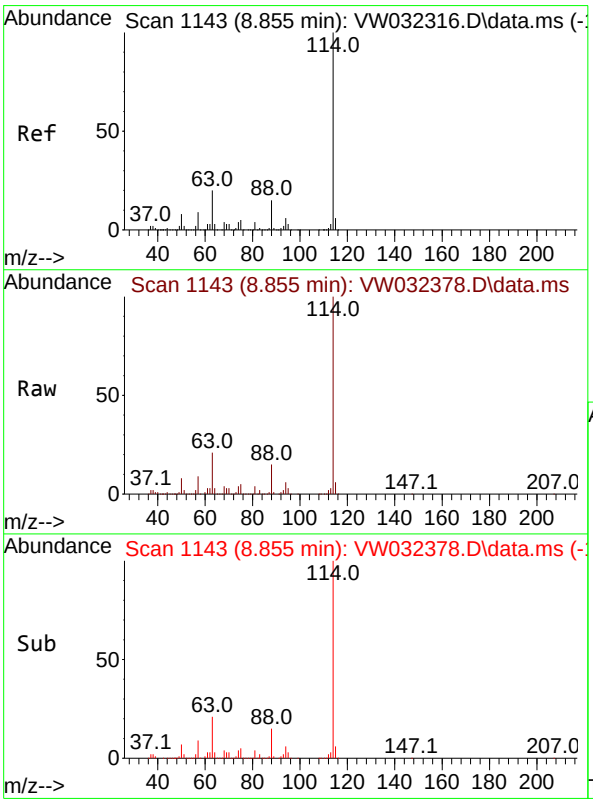
Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	99.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

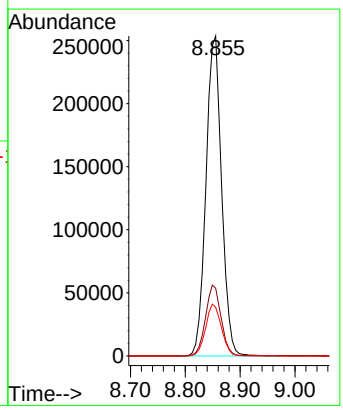
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

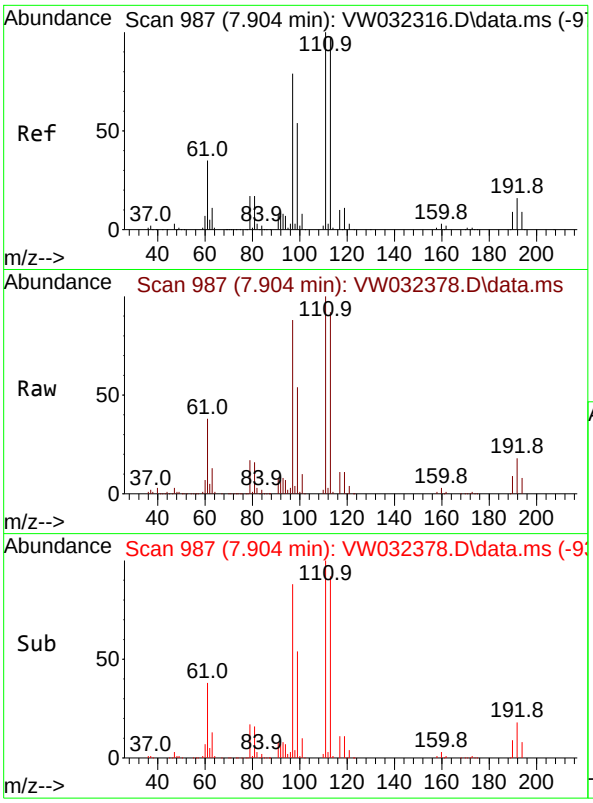


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:114 Resp: 500417

Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	40.4
88	15.2	0.0	32.0

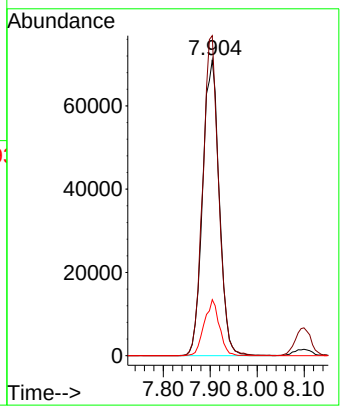




#35
Dibromofluoromethane
Concen: 53.598 ug/l
RT: 7.904 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:113 Resp: 17369

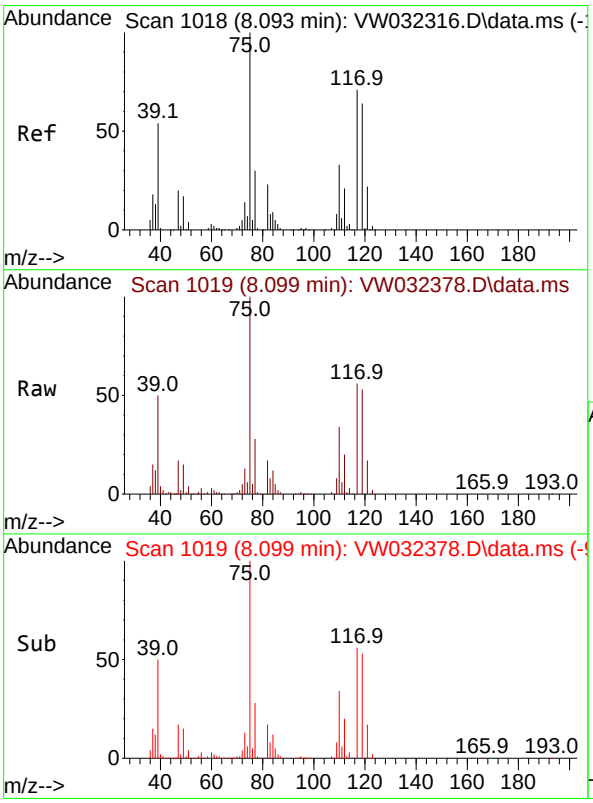
Ion	Ratio	Lower	Upper
113	100		
111	103.4	83.9	125.9
192	17.3	14.6	21.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

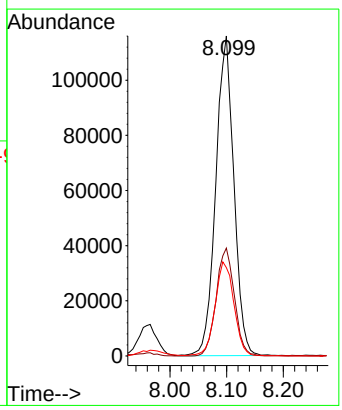
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

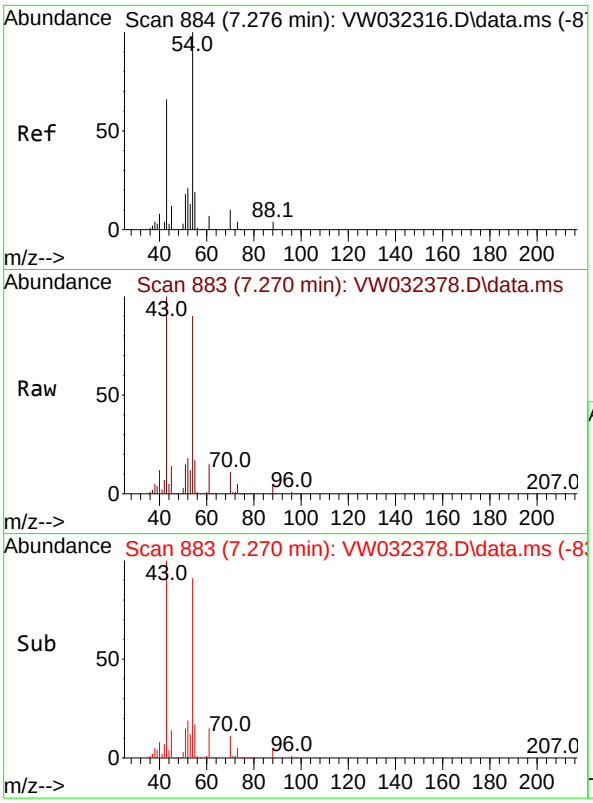


#36
1,1-Dichloropropene
Concen: 56.099 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 75 Resp: 256579

Ion	Ratio	Lower	Upper
75	100		
110	34.0	17.5	52.5
77	30.6	24.1	36.1





#37
Ethyl Acetate
Concen: 51.178 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

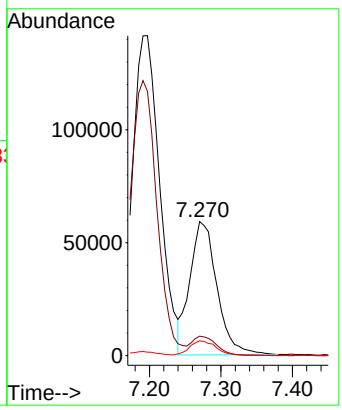
Tgt Ion: 43 Resp: 15580

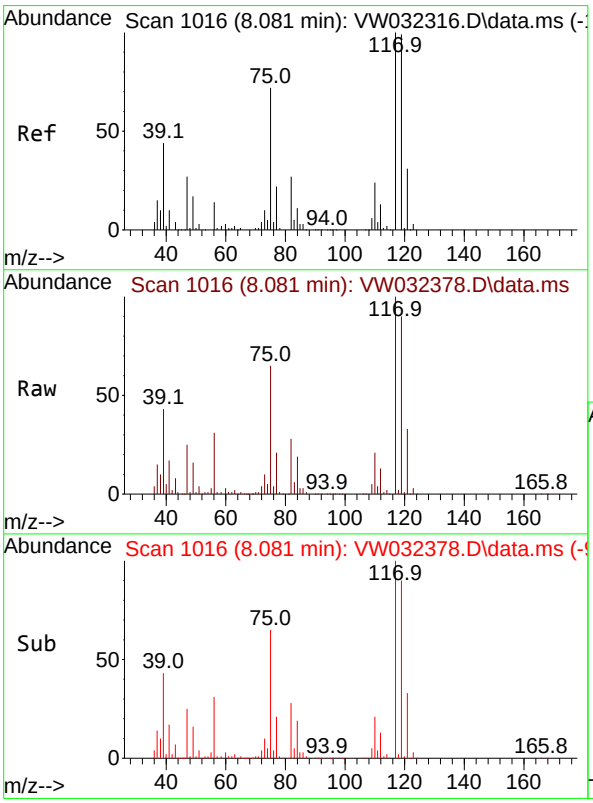
Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.3	16.9
70	10.7	8.9	13.3

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

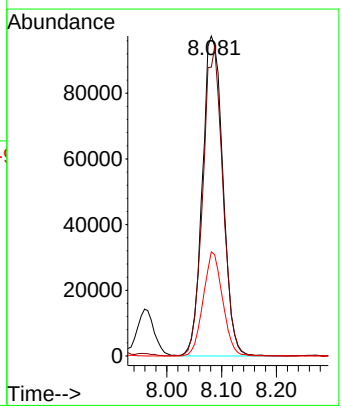


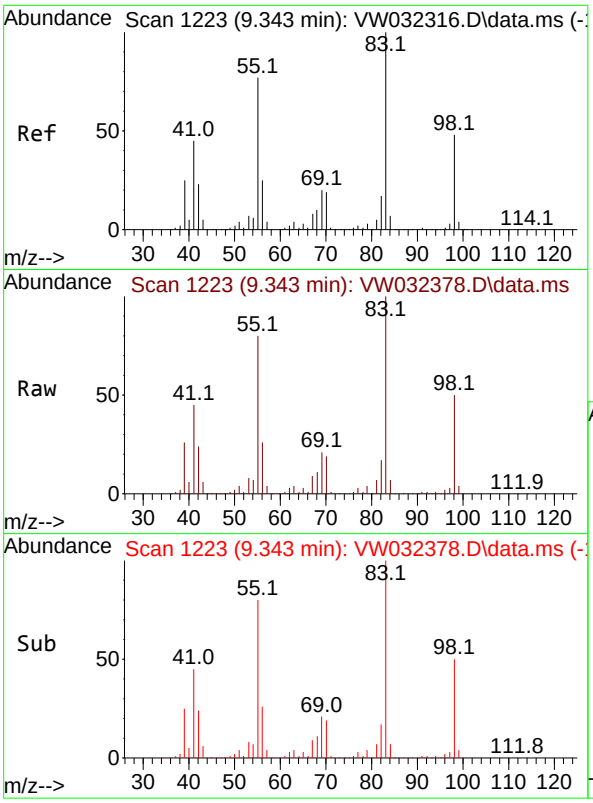


#38
Carbon Tetrachloride
Concen: 58.585 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:117 Resp: 252146

Ion	Ratio	Lower	Upper
117	100		
119	90.2	74.2	111.2
121	32.5	25.6	38.4

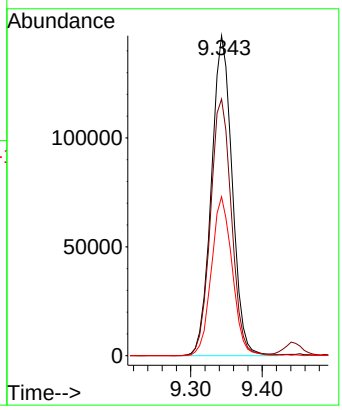




#39
Methylcyclohexane
Concen: 53.803 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 83 Resp: 29682

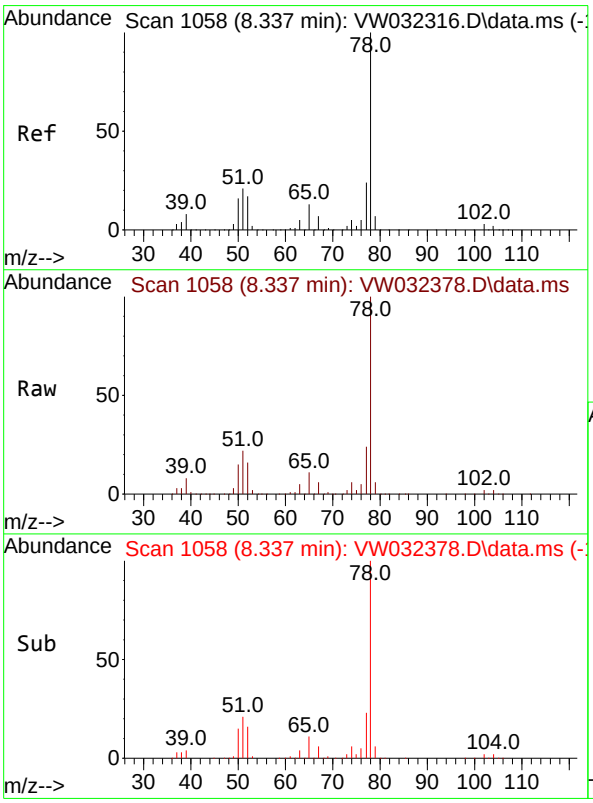
Ion	Ratio	Lower	Upper
83	100		
55	80.2	58.4	87.6
98	49.7	39.4	59.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

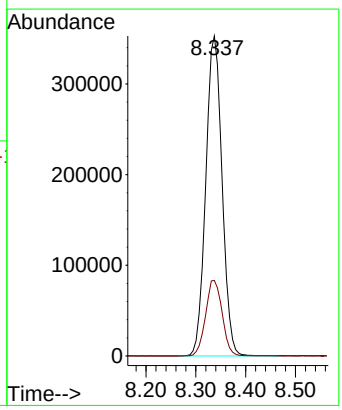
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

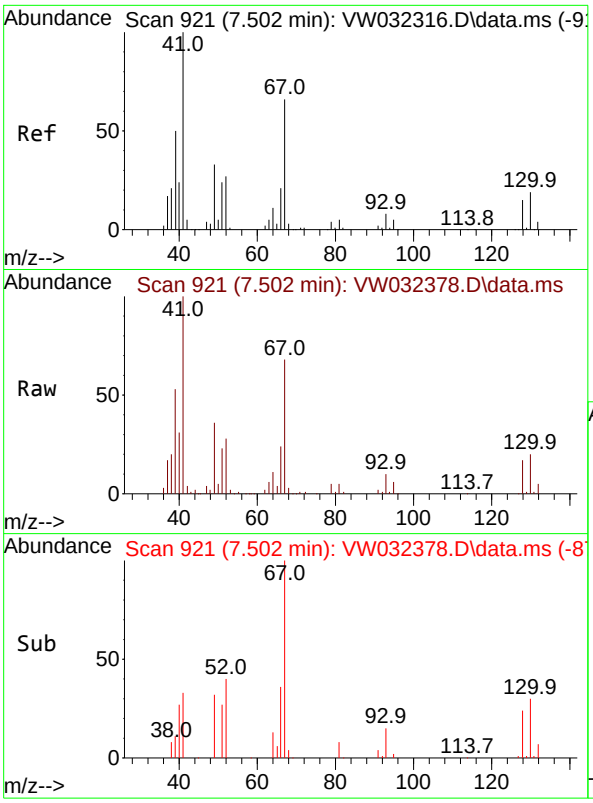


#40
Benzene
Concen: 55.818 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 78 Resp: 800201

Ion	Ratio	Lower	Upper
78	100		
77	23.6	20.7	31.1

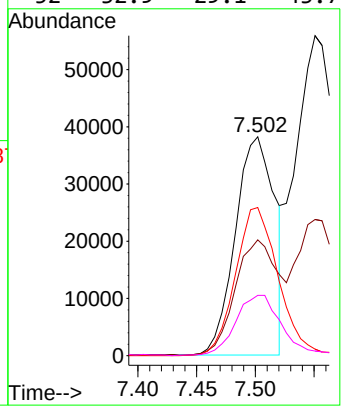




#41
Methacrylonitrile
Concen: 54.317 ug/l
RT: 7.502 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

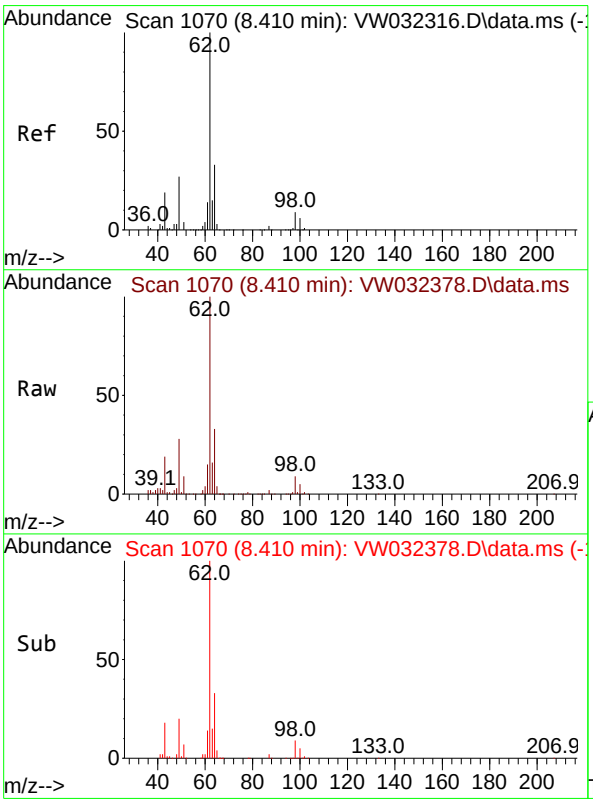
Tgt Ion: 41 Resp: 8911

Ion	Ratio	Lower	Upper
41	100		
39	59.6	50.9	76.3
67	74.0	65.6	98.4
52	32.9	29.1	43.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

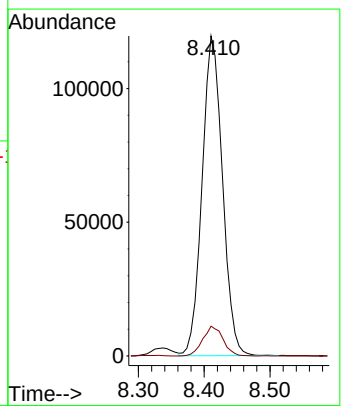
Manual Integrations APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

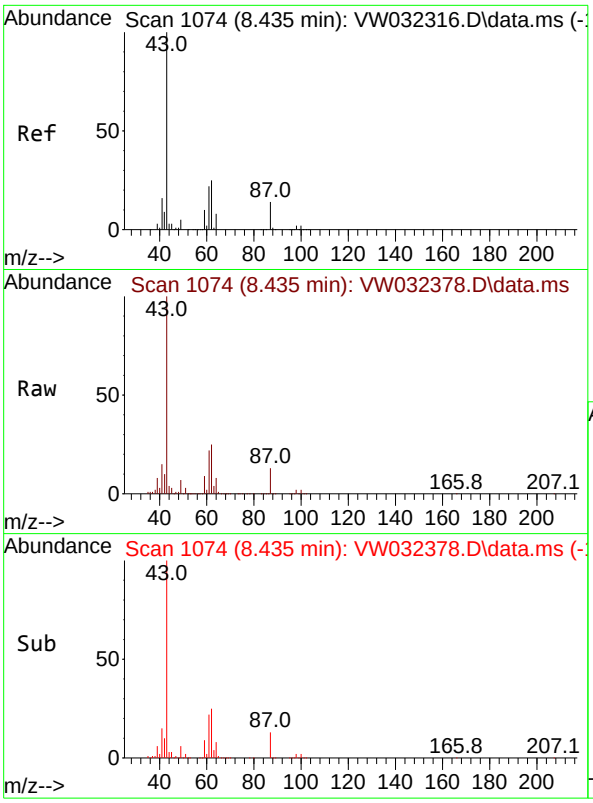


#42
1,2-Dichloroethane
Concen: 54.972 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 62 Resp: 257863

Ion	Ratio	Lower	Upper
62	100		
98	9.3	0.0	18.0





#43
Isopropyl Acetate
Concen: 54.722 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

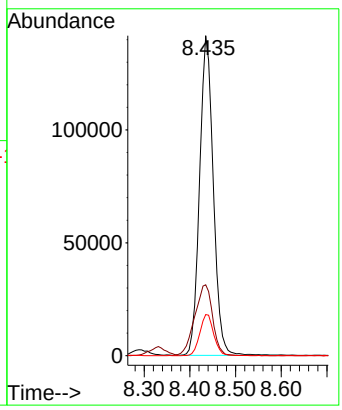
Tgt Ion: 43 Resp: 29552

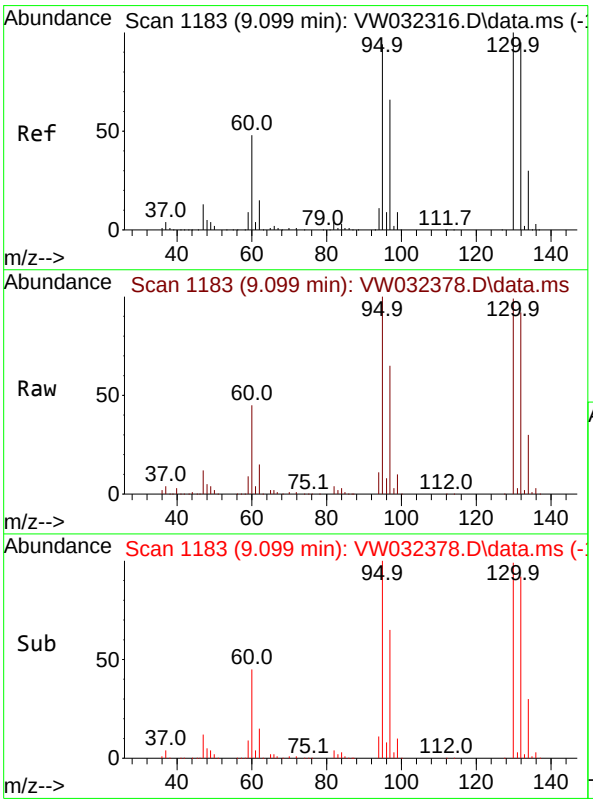
Ion	Ratio	Lower	Upper
43	100		
61	28.7	23.3	34.9
87	13.1	11.1	16.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

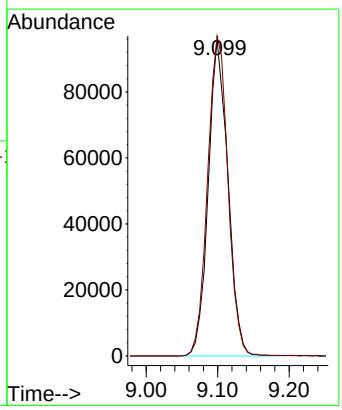


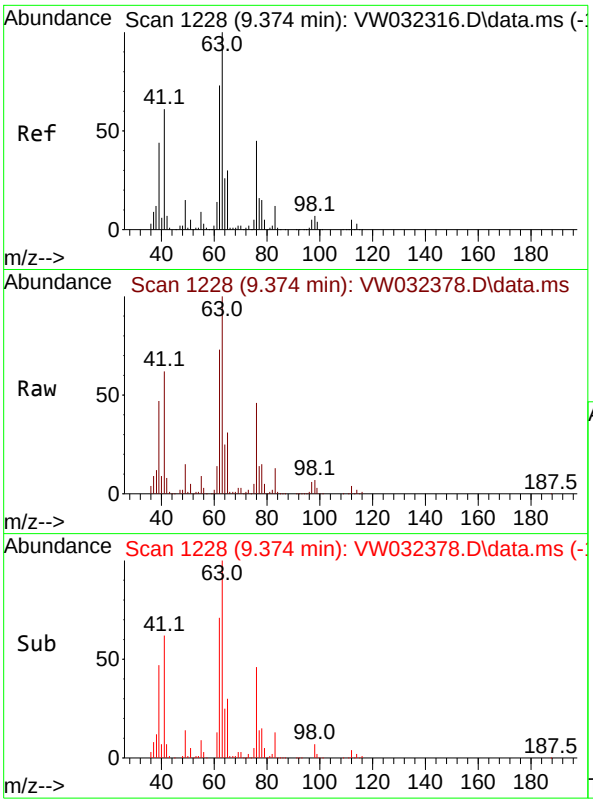


#44
Trichloroethene
Concen: 54.492 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:130 Resp: 182918

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	220.0

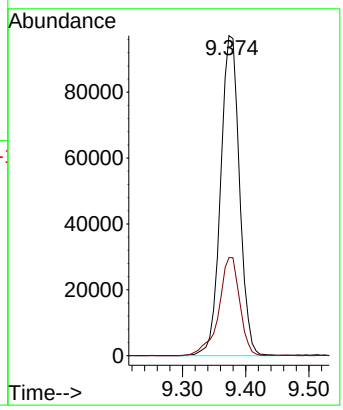




#45
1,2-Dichloropropane
Concen: 56.170 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 63 Resp: 20099

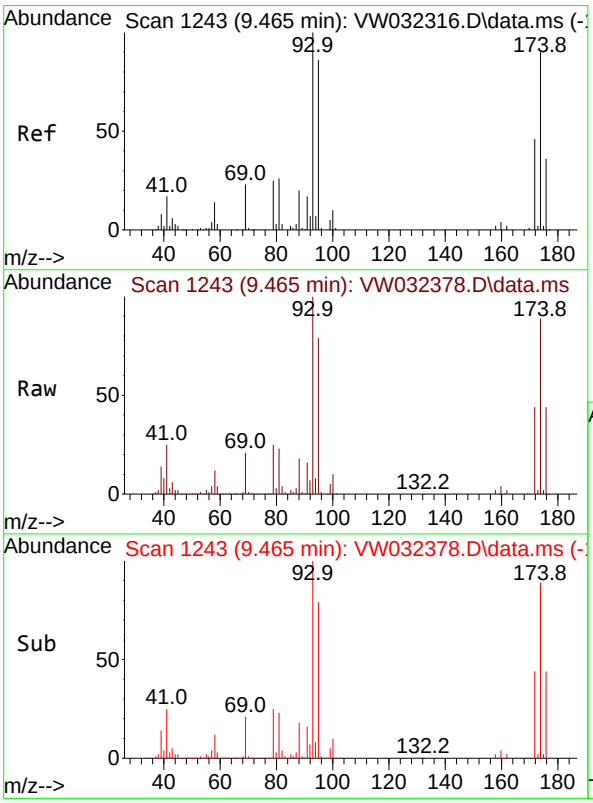
Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.3	36.5



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

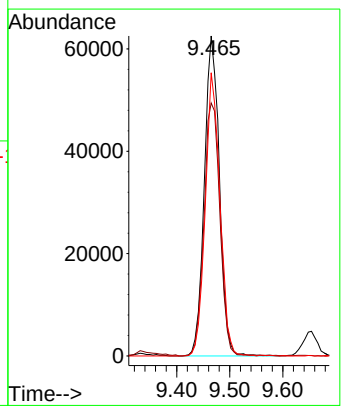
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

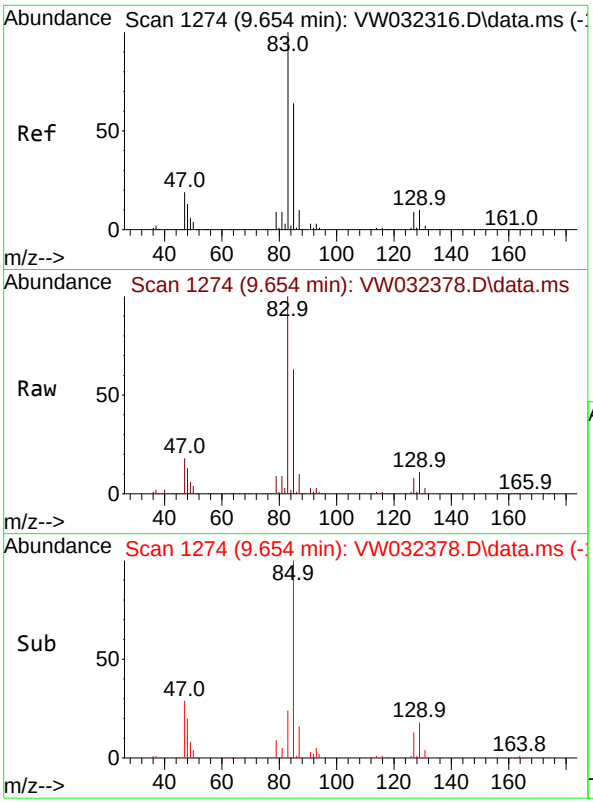


#46
Dibromomethane
Concen: 56.022 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 93 Resp: 123268

Ion	Ratio	Lower	Upper
93	100		
95	83.8	67.4	101.2
174	86.5	75.7	113.5

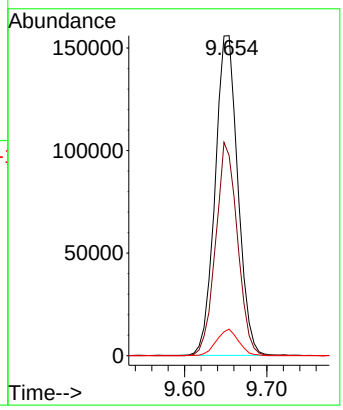




#47
Bromodichloromethane
Concen: 59.385 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 83 Resp: 29886

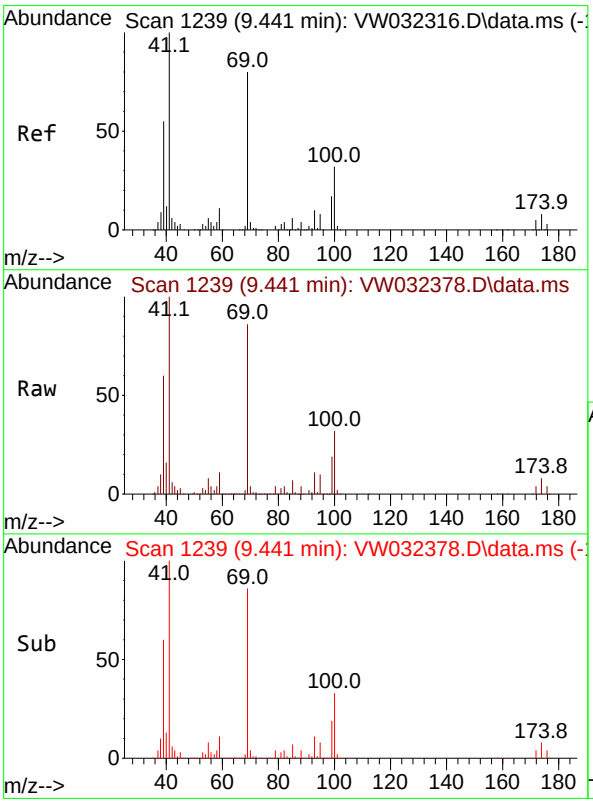
Ion	Ratio	Lower	Upper
83	100		
85	62.6	48.7	73.1
127	8.3	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

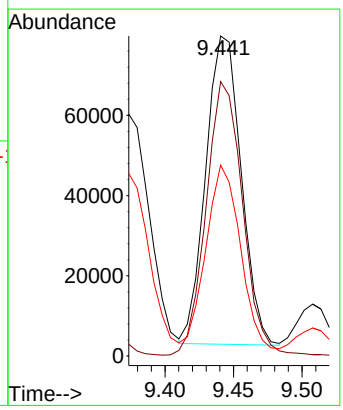
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

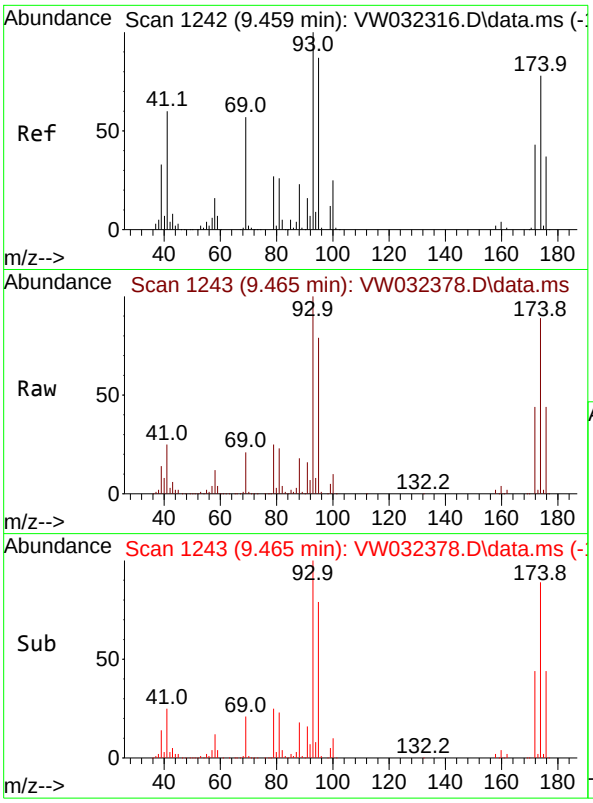


#48
Methyl methacrylate
Concen: 52.640 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 41 Resp: 138219

Ion	Ratio	Lower	Upper
41	100		
69	91.6	71.5	107.3
39	62.1	55.9	83.9





#49
1,4-Dioxane
Concen: 1099.123 ug/l
RT: 9.465 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

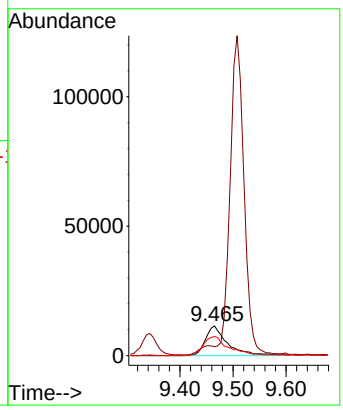
Tgt Ion: 88 Resp: 3305

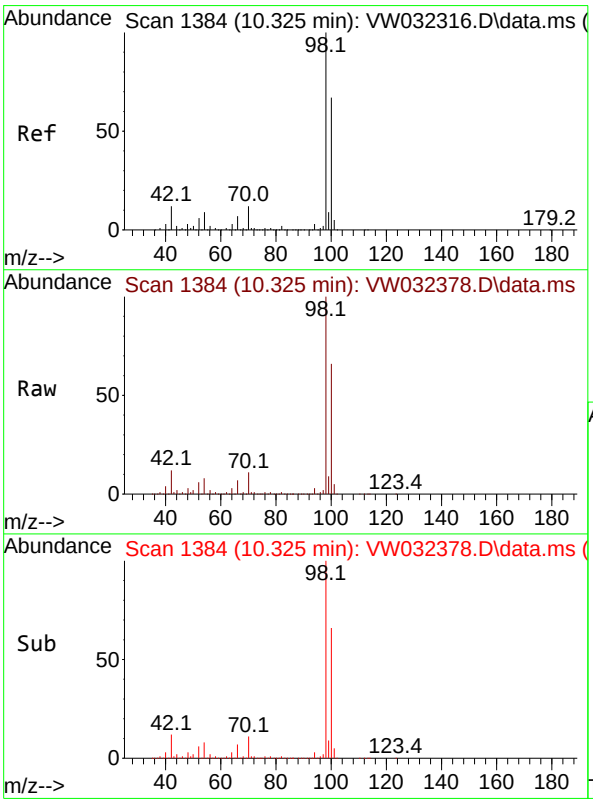
Ion	Ratio	Lower	Upper
88	100		
43	21.4	18.0	27.0
58	74.0	55.4	83.0

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

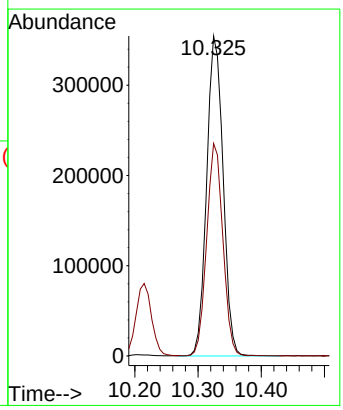


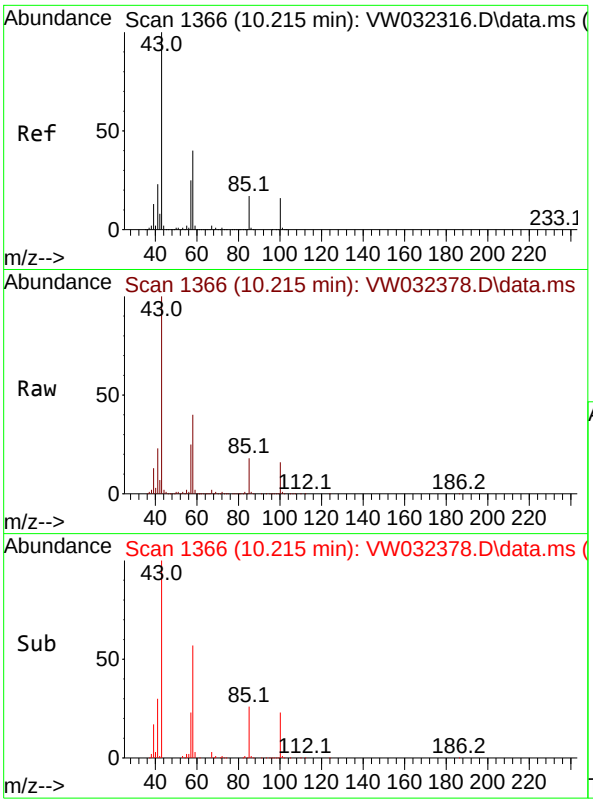


#50
Toluene-d8
Concen: 53.480 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 98 Resp: 639666

Ion	Ratio	Lower	Upper
98	100		
100	65.6	51.4	77.2

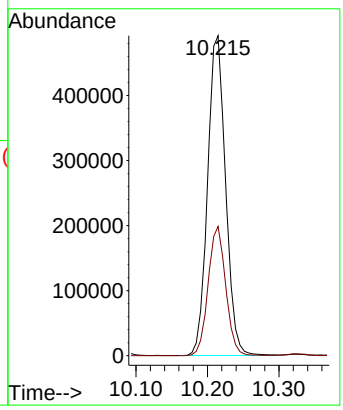




#51
4-Methyl-2-Pentanone
Concen: 275.041 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 43 Resp: 86031

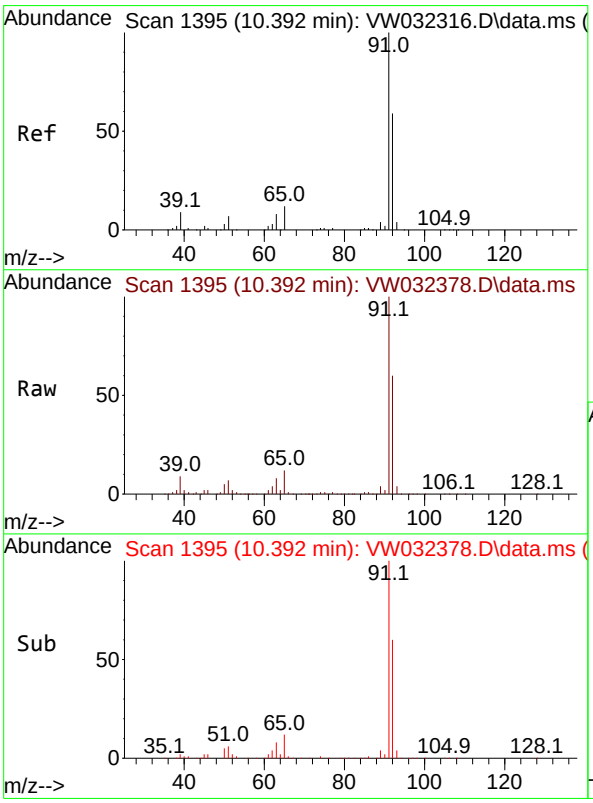
Ion	Ratio	Lower	Upper
43	100		
58	39.4	32.0	48.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

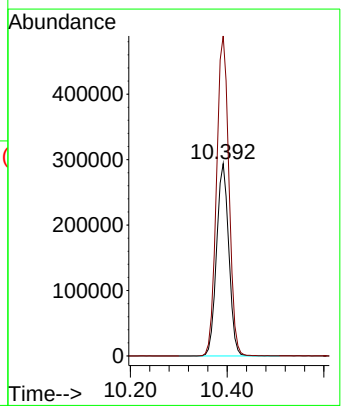
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

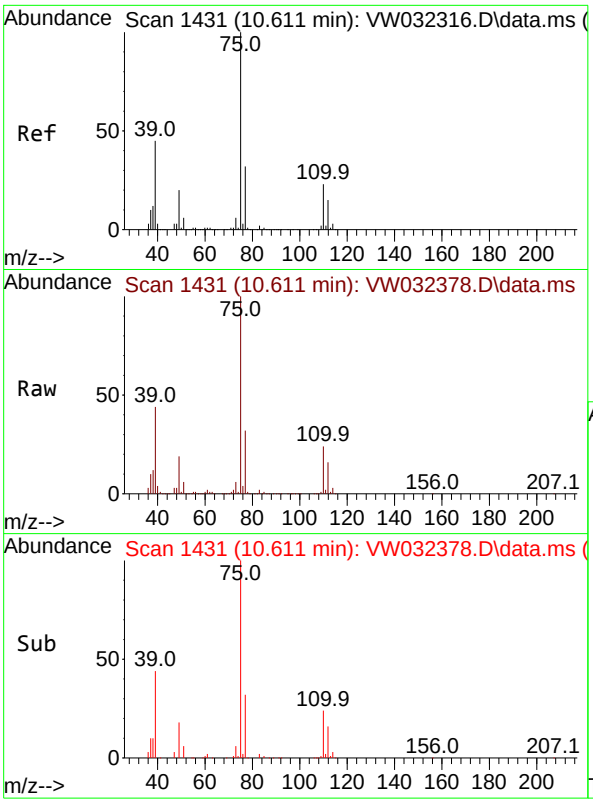


#52
Toluene
Concen: 57.552 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 92 Resp: 513800

Ion	Ratio	Lower	Upper
92	100		
91	168.7	137.5	206.3

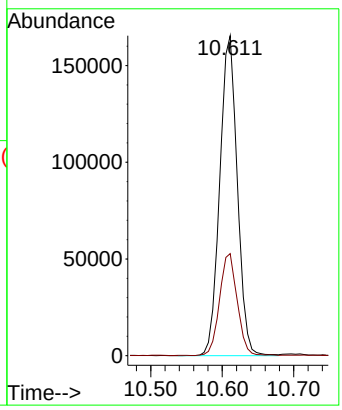




#53
t-1,3-Dichloropropene
Concen: 57.719 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 75 Resp: 28181

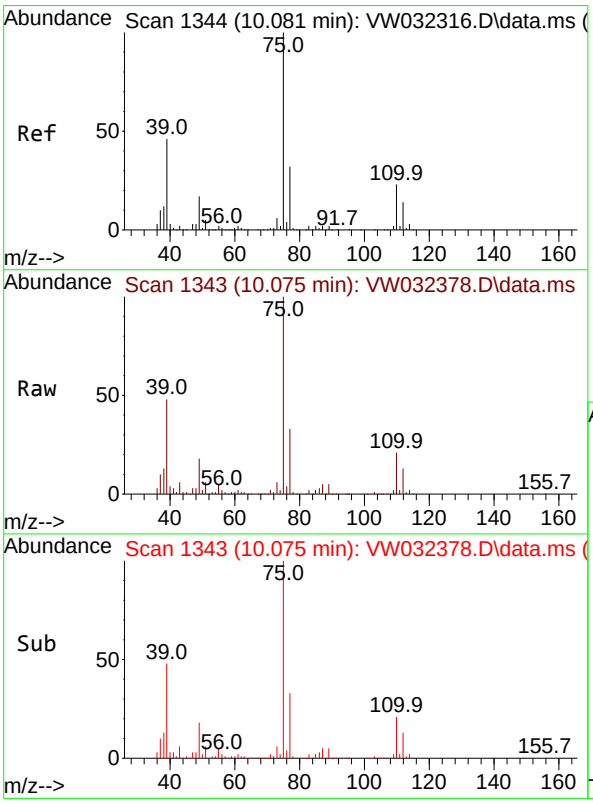
Ion	Ratio	Lower	Upper
75	100		
77	31.8	25.6	38.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

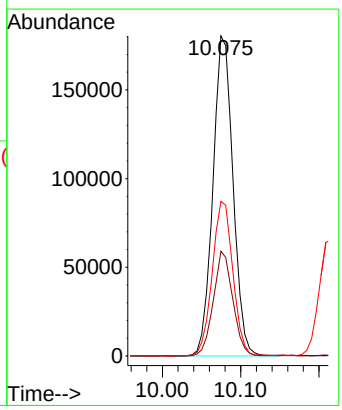
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

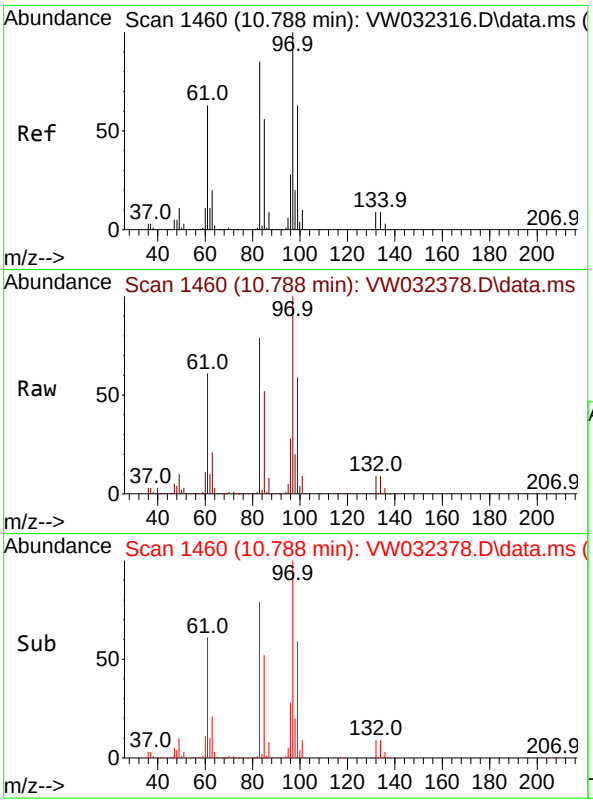


#54
cis-1,3-Dichloropropene
Concen: 57.231 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 75 Resp: 321876

Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.1	37.7
39	48.2	43.2	64.8

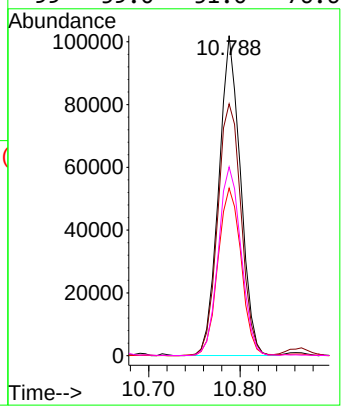




#55
1,1,2-Trichloroethane
Concen: 57.233 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 97 Resp: 16831

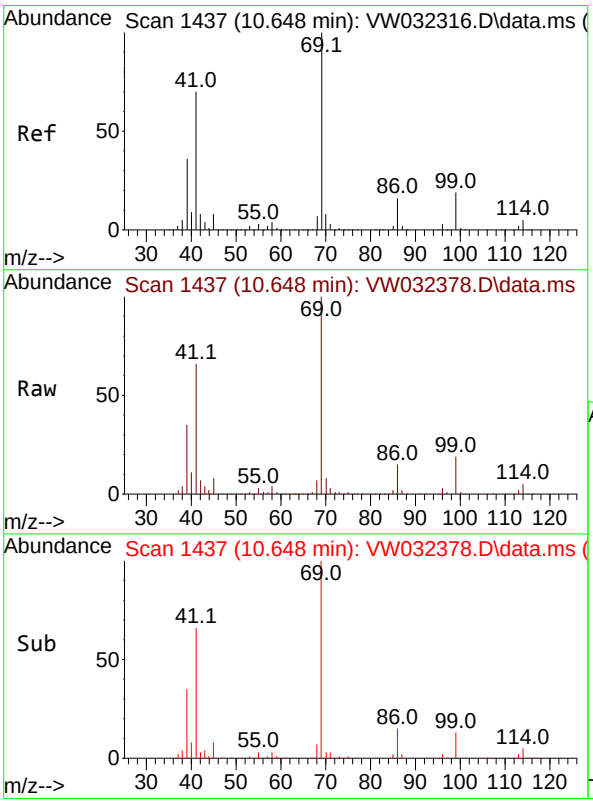
Ion	Ratio	Lower	Upper
97	100		
83	78.8	71.0	106.6
85	52.4	42.8	64.2
99	59.0	51.0	76.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

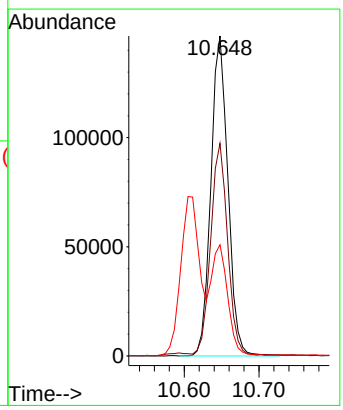
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

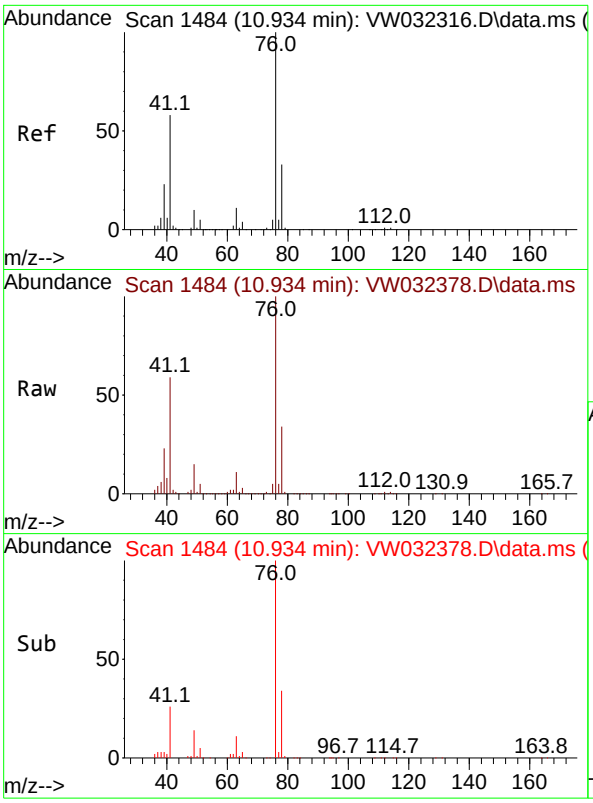


#56
Ethyl methacrylate
Concen: 56.352 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 69 Resp: 231959

Ion	Ratio	Lower	Upper
69	100		
41	65.5	53.2	79.8
39	32.8	32.9	49.3#

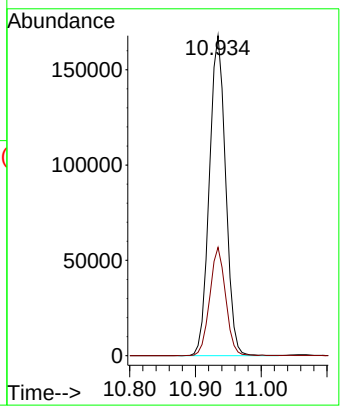




#57
1,3-Dichloropropane
Concen: 55.655 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

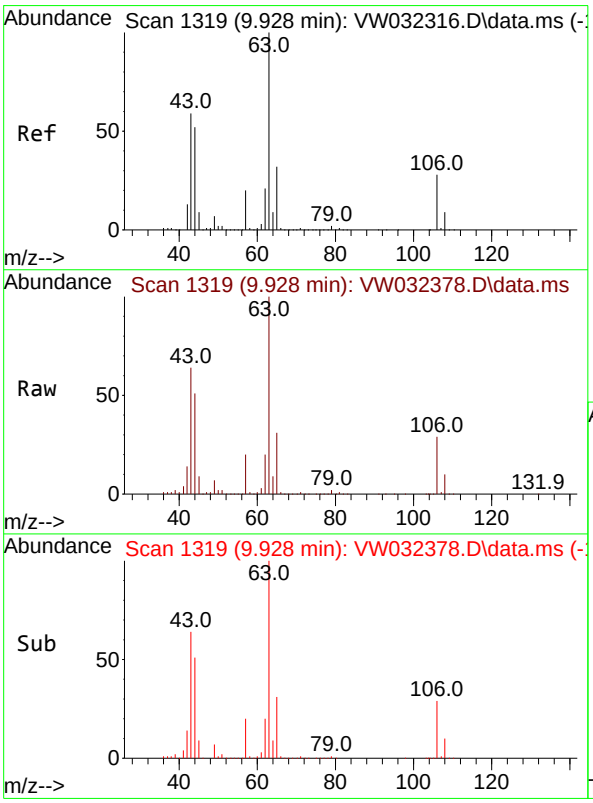
Tgt Ion: 76 Resp: 28907

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.2	39.4



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

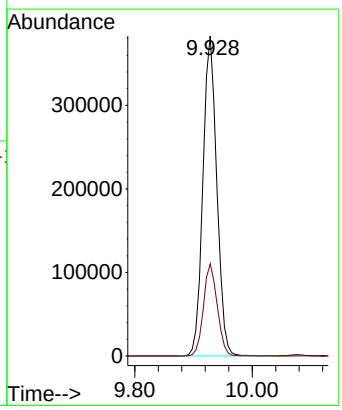
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

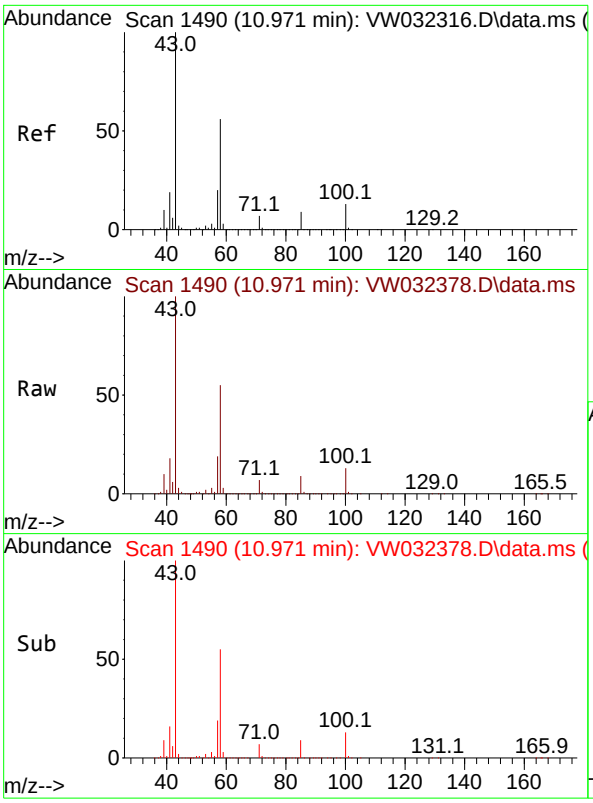


#58
2-Chloroethyl Vinyl ether
Concen: 287.576 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 63 Resp: 629980

Ion	Ratio	Lower	Upper
63	100		
106	28.5	24.3	36.5





#59
2-Hexanone
Concen: 276.684 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

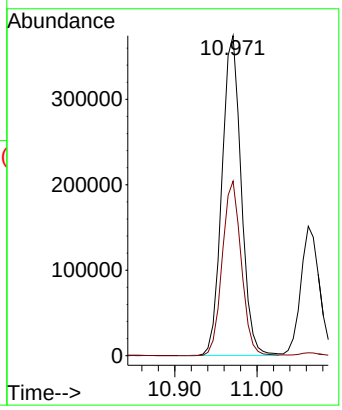
Tgt Ion: 43 Resp: 61039

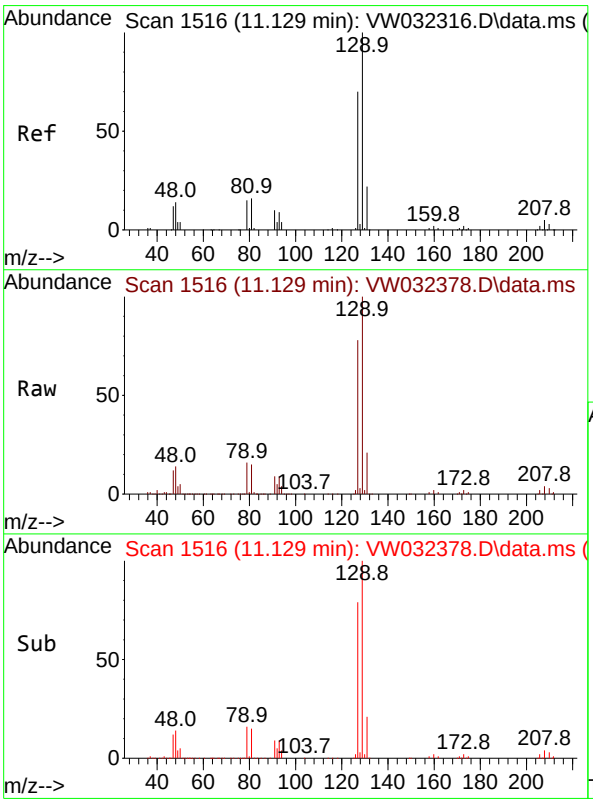
Ion	Ratio	Lower	Upper
43	100		
58	54.0	27.5	82.4

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

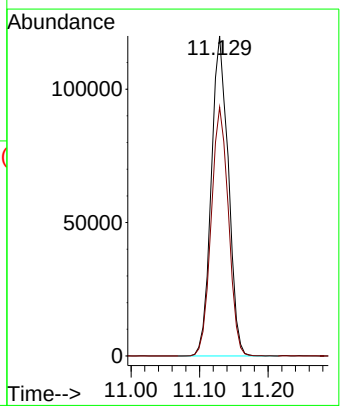


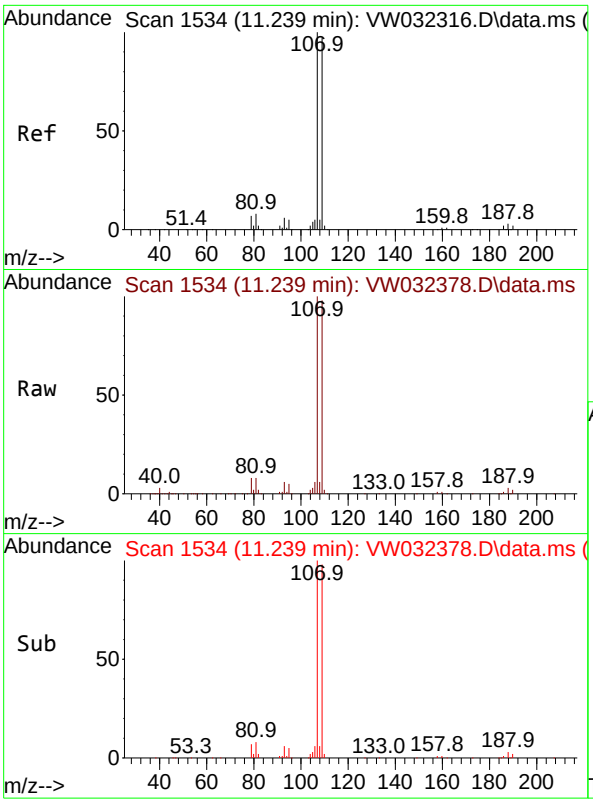


#60
Dibromochloromethane
Concen: 61.883 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:129 Resp: 206640

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.1	114.5

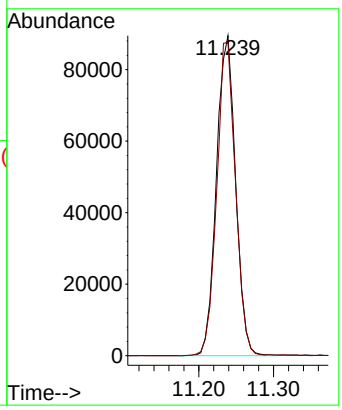




#61
1,2-Dibromoethane
Concen: 55.617 ug/l
RT: 11.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:107 Resp: 15948

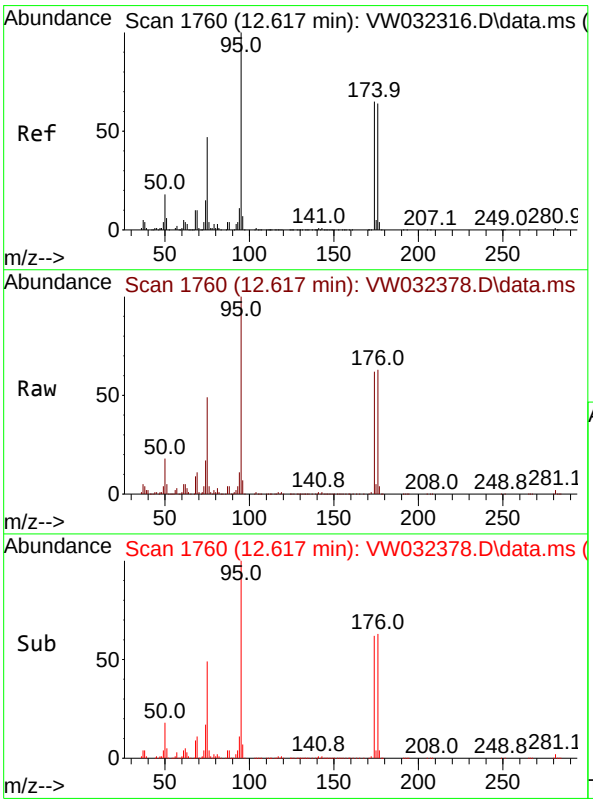
Ion	Ratio	Lower	Upper
107	100		
109	96.3	74.5	111.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

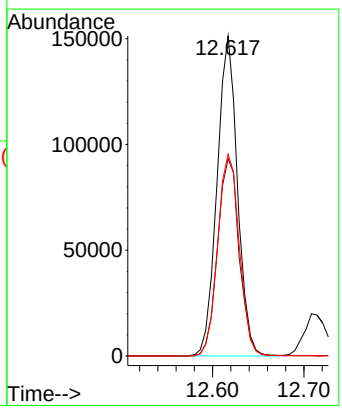
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

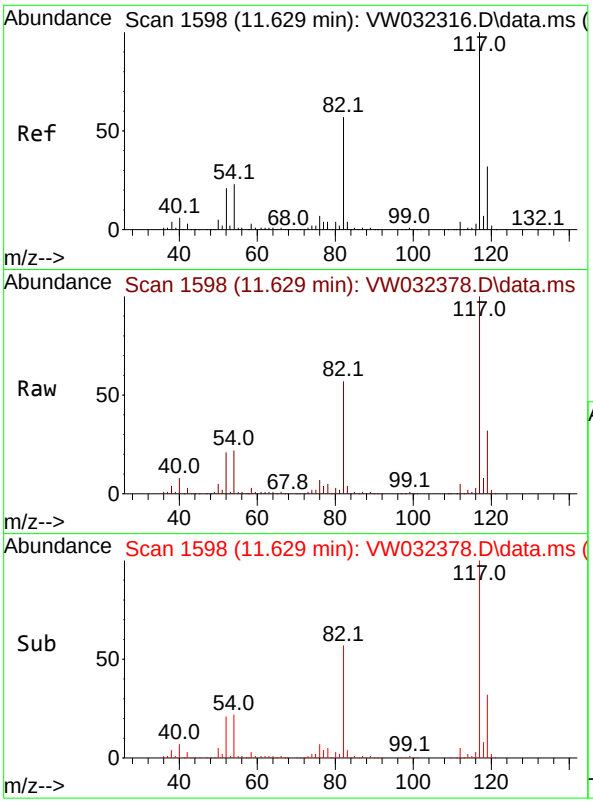


#62
4-Bromofluorobenzene
Concen: 52.021 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 95 Resp: 235180

Ion	Ratio	Lower	Upper
95	100		
174	65.3	0.0	145.6
176	66.5	0.0	140.8

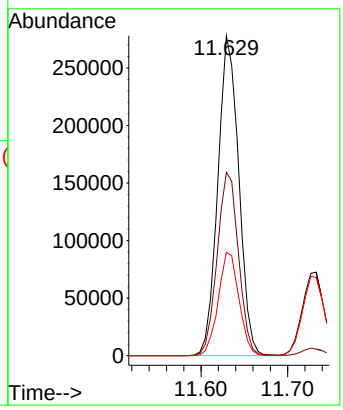




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:117 Resp: 46687

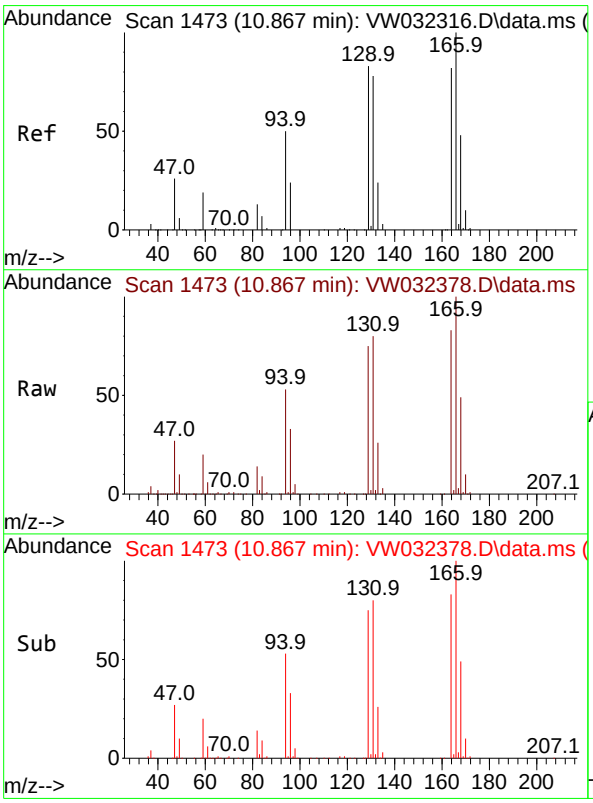
Ion	Ratio	Lower	Upper
117	100		
82	57.3	42.7	64.1
119	32.3	25.2	37.8



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

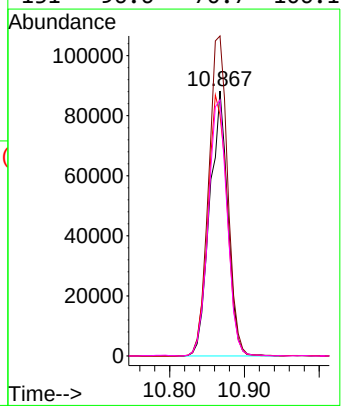
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

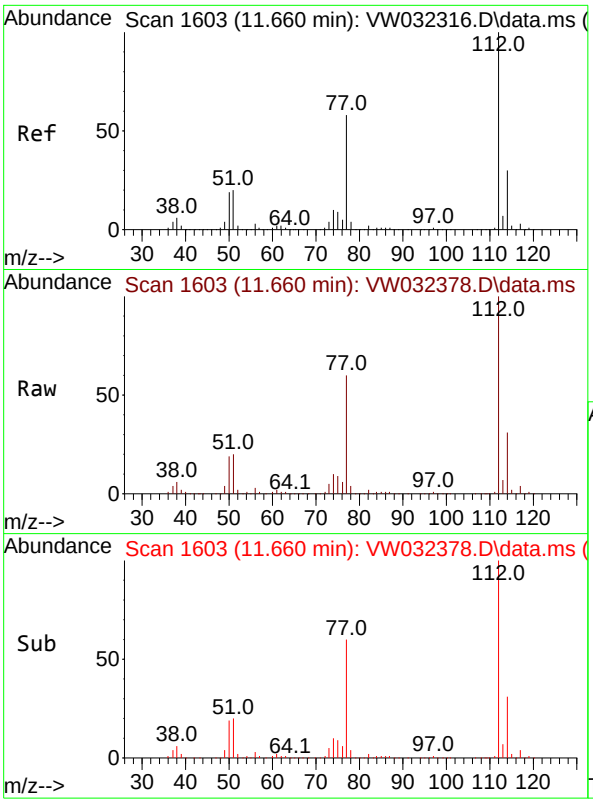


#64
Tetrachloroethene
Concen: 52.663 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:164 Resp: 147123

Ion	Ratio	Lower	Upper
164	100		
166	120.8	97.5	146.3
129	91.0	71.2	106.8
131	96.6	70.7	106.1

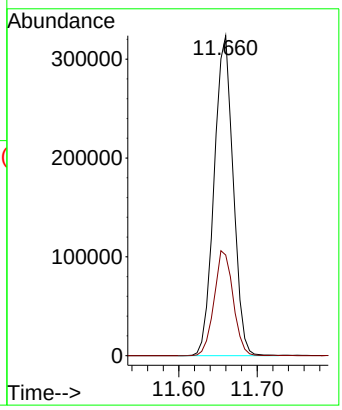




#65
Chlorobenzene
Concen: 53.221 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:112 Resp: 54670

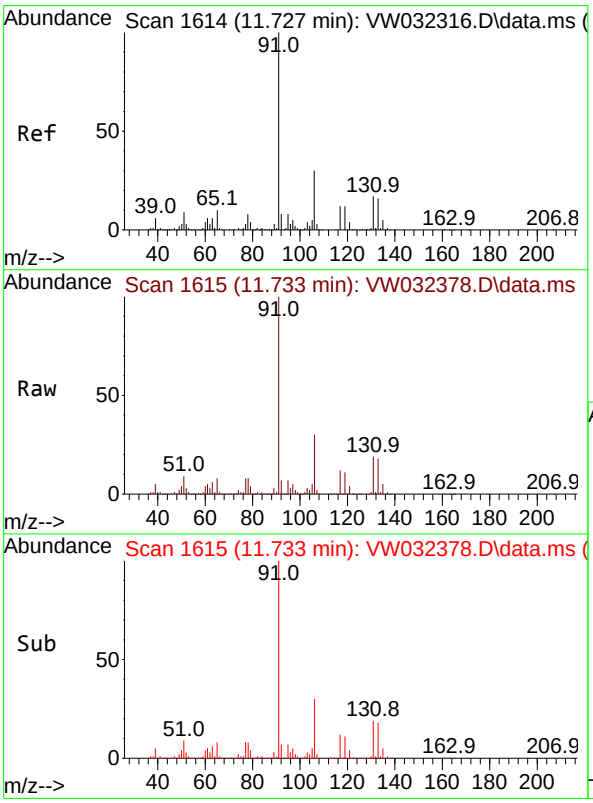
Ion	Ratio	Lower	Upper
112	100		
114	31.5	26.0	39.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

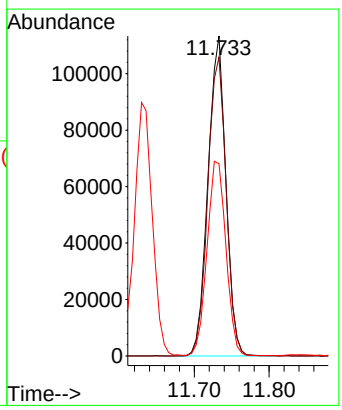
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

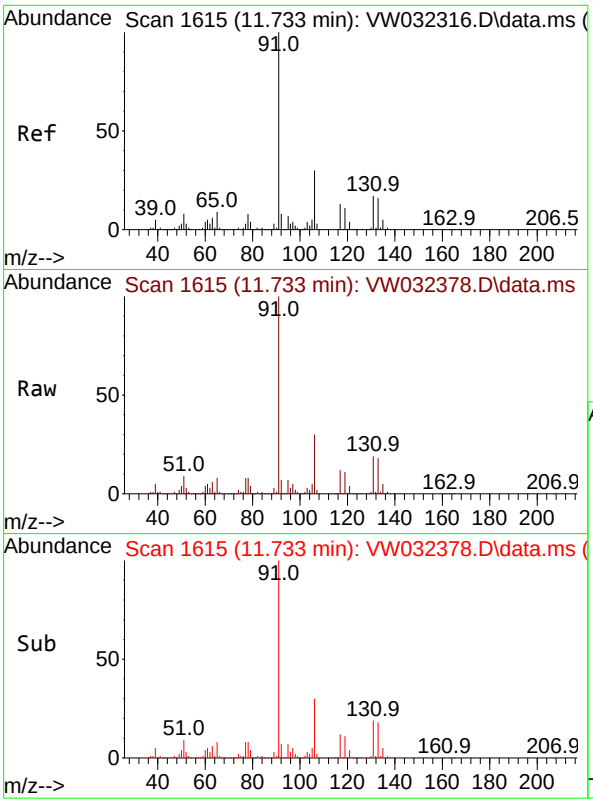


#66
1,1,1,2-Tetrachloroethane
Concen: 58.904 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:131 Resp: 188463

Ion	Ratio	Lower	Upper
131	100		
133	95.7	47.7	143.1
119	64.2	32.8	98.3

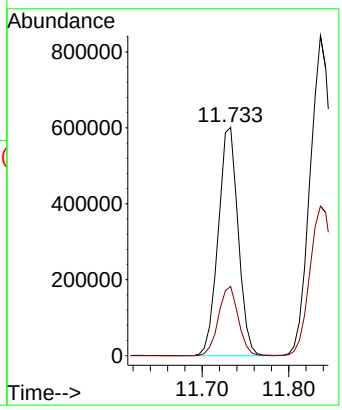




#67
Ethyl Benzene
Concen: 56.174 ug/l
RT: 11.733 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 91 Resp: 96186

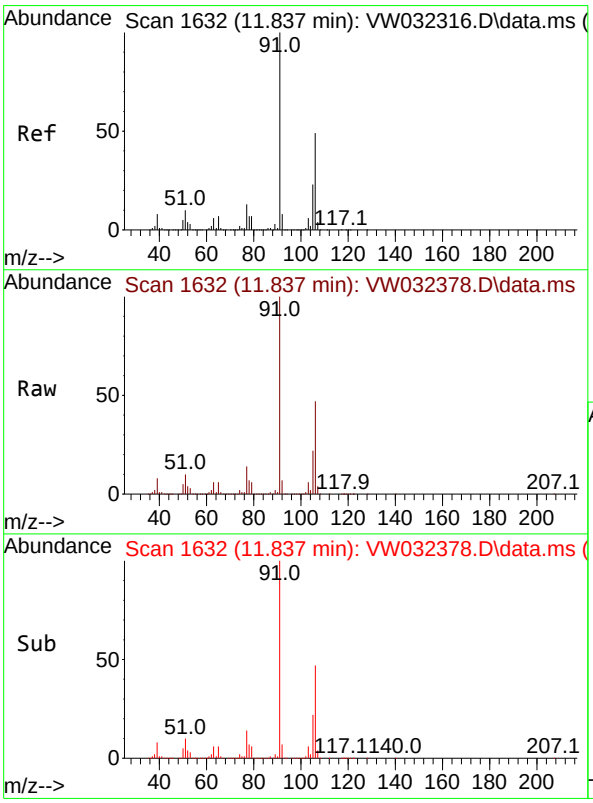
Ion	Ratio	Lower	Upper
91	100		
106	30.3	25.3	37.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

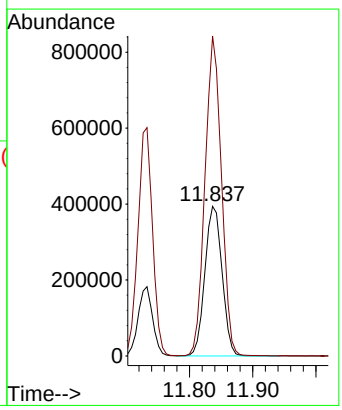
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

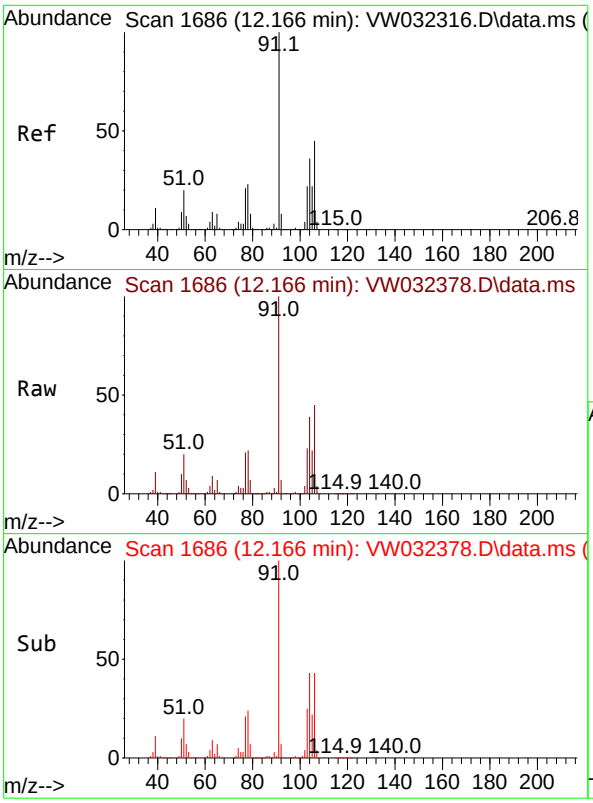


#68
m/p-Xylenes
Concen: 112.736 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:106 Resp: 744366

Ion	Ratio	Lower	Upper
106	100		
91	204.6	164.2	246.2

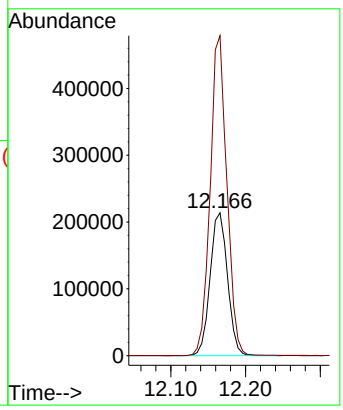




#69
o-Xylene
Concen: 55.988 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

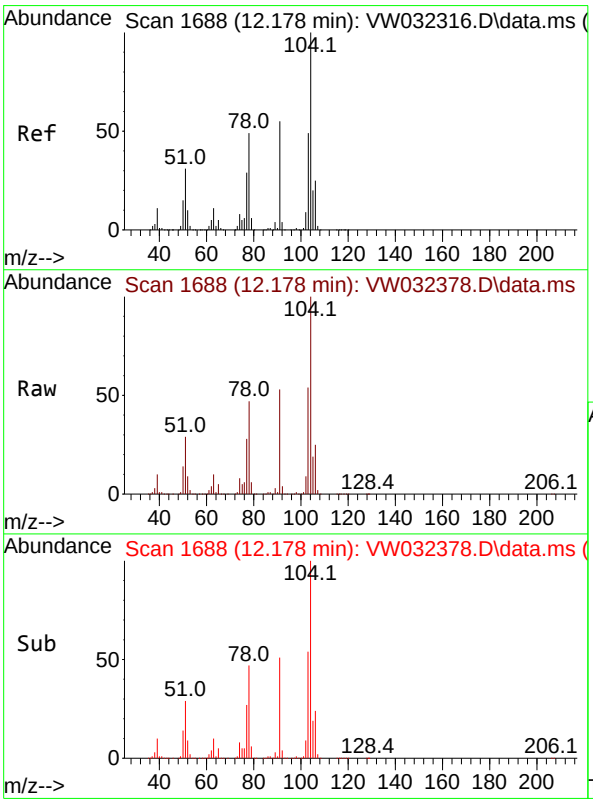
Tgt Ion:106 Resp: 34570

Ion	Ratio	Lower	Upper
106	100		
91	214.9	108.7	326.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

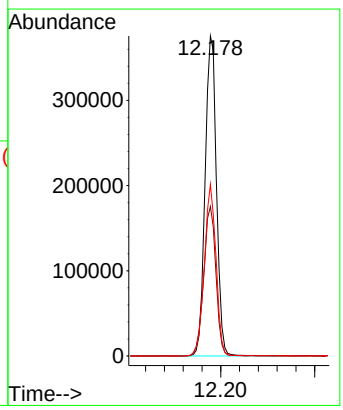
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

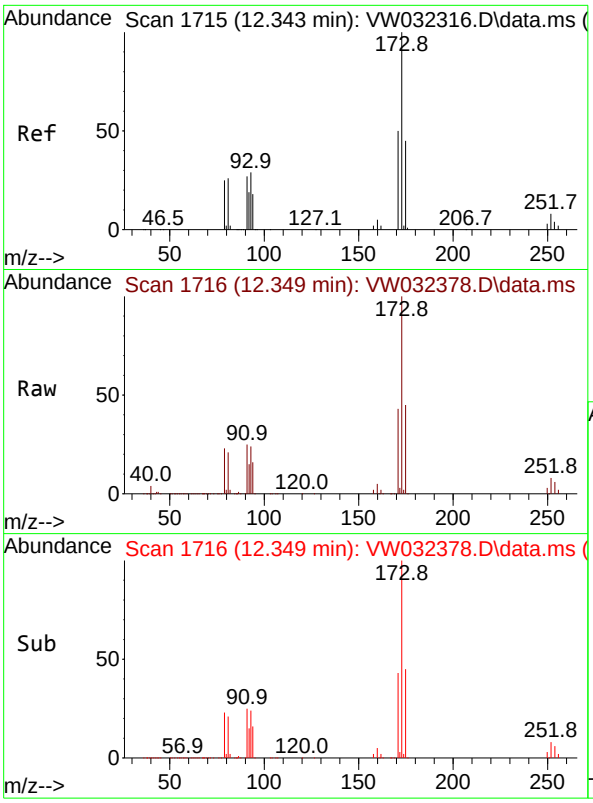


#70
Styrene
Concen: 58.262 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:104 Resp: 628107

Ion	Ratio	Lower	Upper
104	100		
78	50.1	41.6	62.4
103	55.1	44.8	67.2

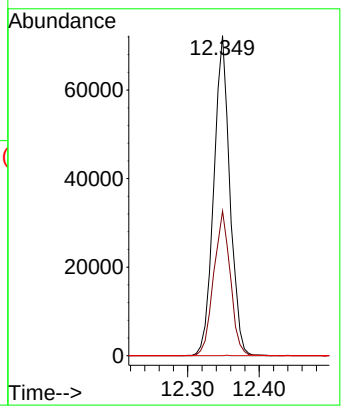




#71
Bromoform
Concen: 61.560 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:173 Resp: 11289

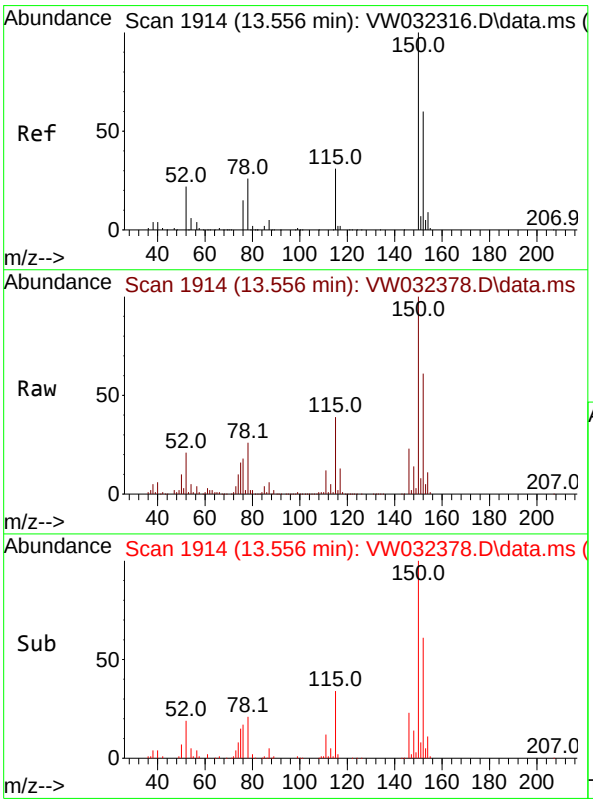
Ion	Ratio	Lower	Upper
173	100		
175	46.6	24.9	74.7
254	0.0	0.2	0.2



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

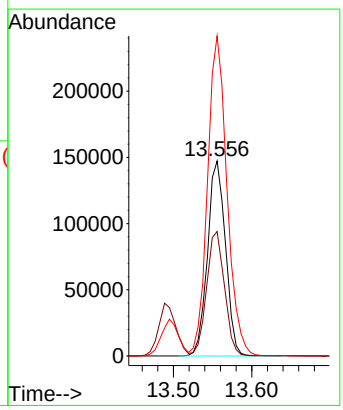
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

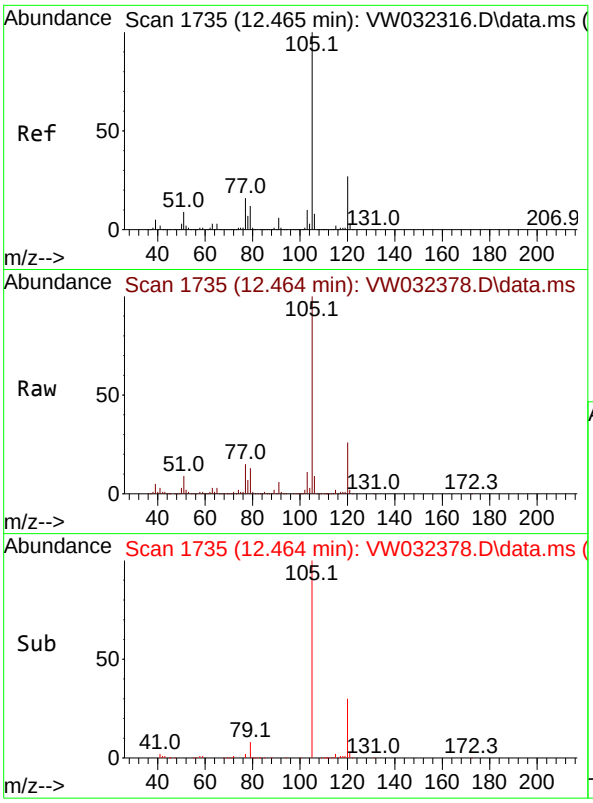


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:152 Resp: 234766

Ion	Ratio	Lower	Upper
152	100		
115	63.2	31.8	95.4
150	177.2	0.0	343.0

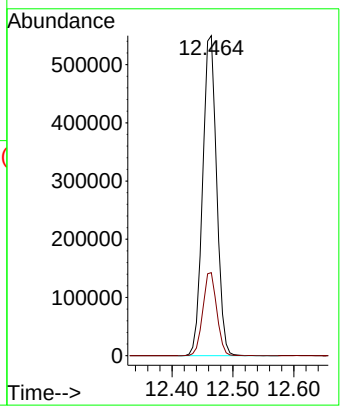




#73
Isopropylbenzene
Concen: 54.560 ug/l
RT: 12.464 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:105 Resp: 87632

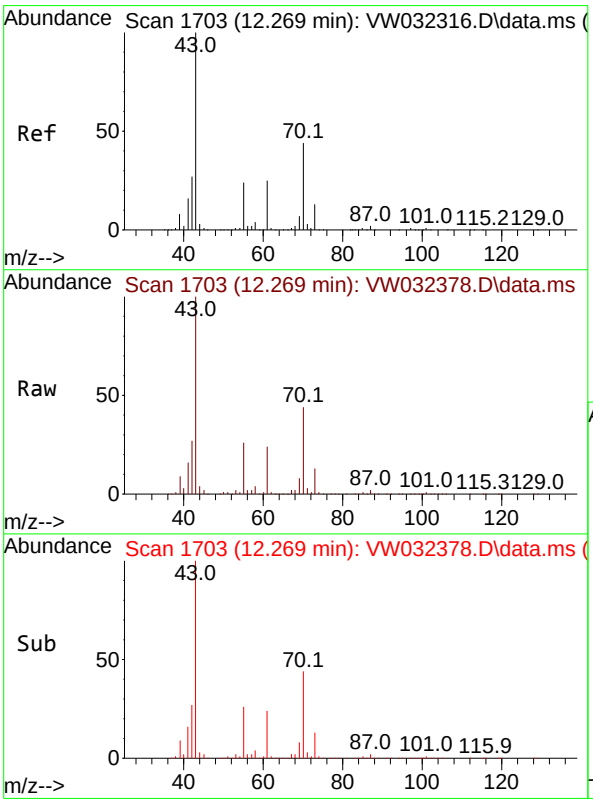
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.0	38.9



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

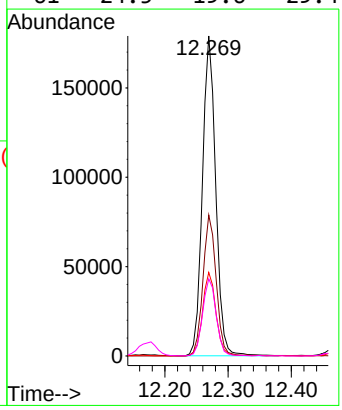
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

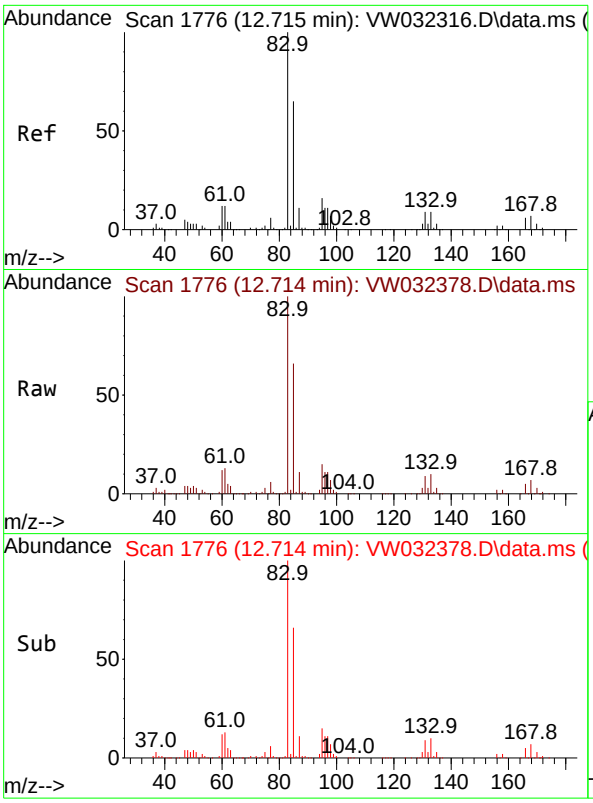


#74
N-amyl acetate
Concen: 51.189 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 43 Resp: 262286

Ion	Ratio	Lower	Upper
43	100		
70	44.1	35.3	52.9
55	26.7	19.9	29.9
61	24.5	19.6	29.4

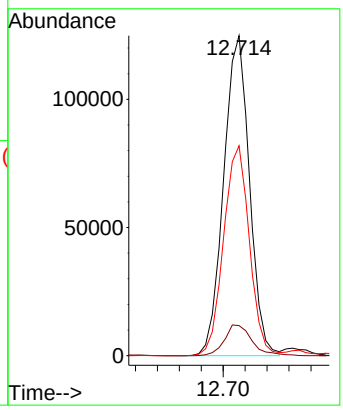




#75
1,1,2,2-Tetrachloroethane
Concen: 51.119 ug/l
RT: 12.714 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 83 Resp: 20386

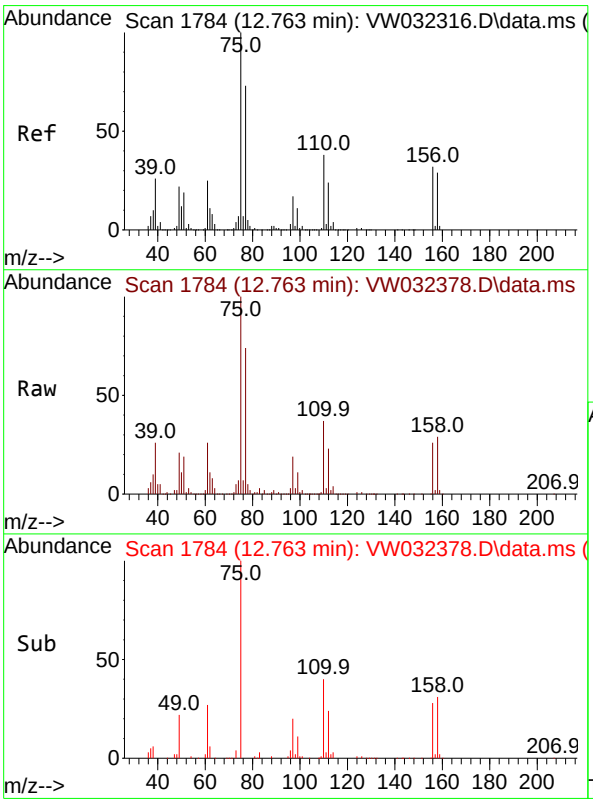
Ion	Ratio	Lower	Upper
83	100		
131	10.2	5.1	15.4
85	65.6	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

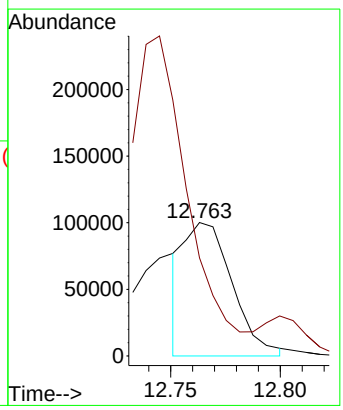
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

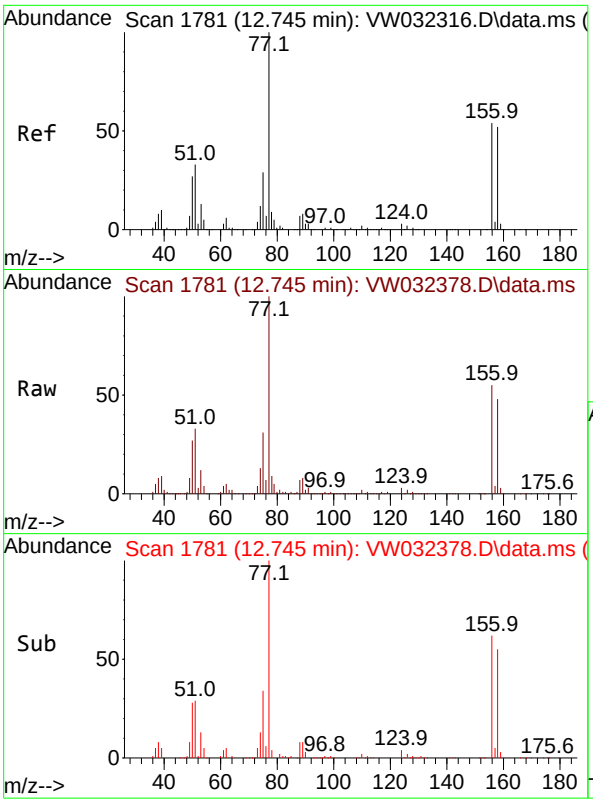


#76
1,2,3-Trichloropropane
Concen: 49.739 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 75 Resp: 153664

Ion	Ratio	Lower	Upper
75	100		
77	293.9	141.7	425.1

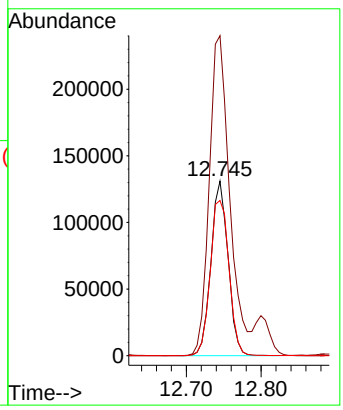




#77
Bromobenzene
Concen: 53.907 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

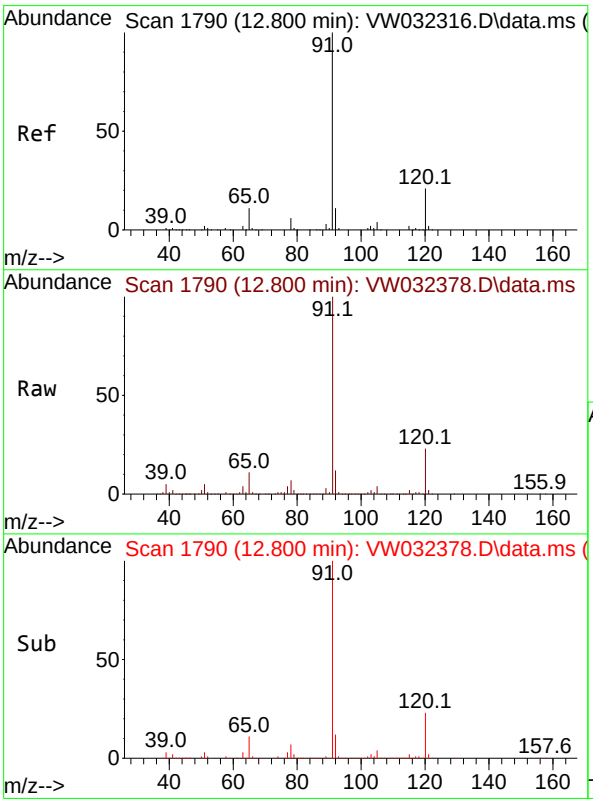
Tgt Ion:156 Resp: 20871

Ion	Ratio	Lower	Upper
156	100		
77	216.4	98.6	295.7
158	97.8	48.4	145.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

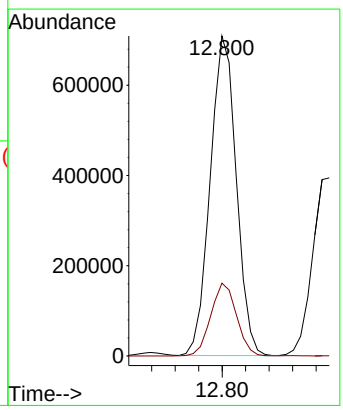
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

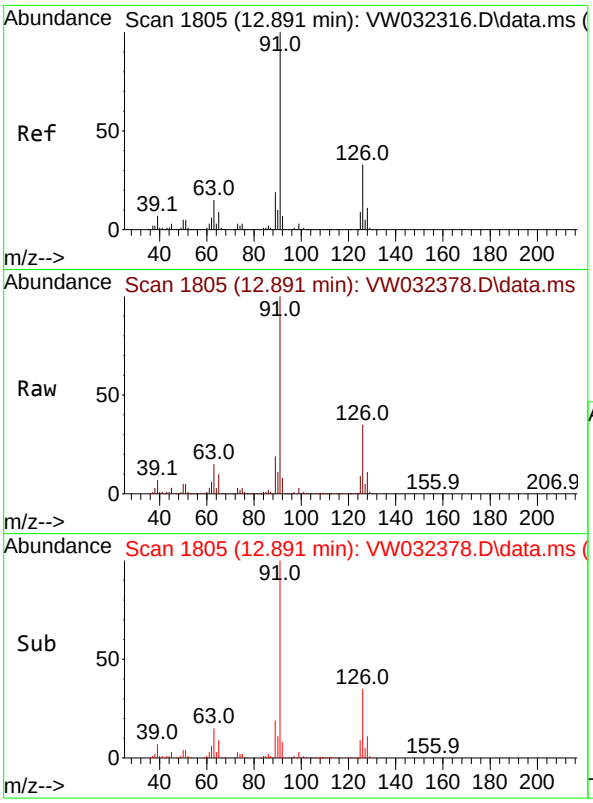


#78
n-propylbenzene
Concen: 54.462 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 91 Resp: 1092673

Ion	Ratio	Lower	Upper
91	100		
120	22.5	11.8	35.4

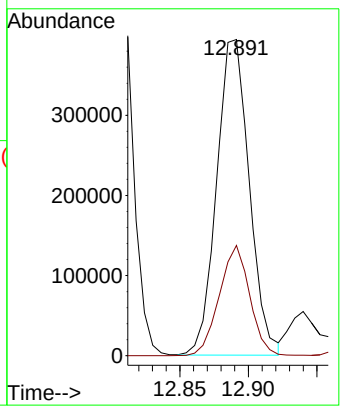




#79
2-Chlorotoluene
Concen: 53.203 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 91 Resp: 65266

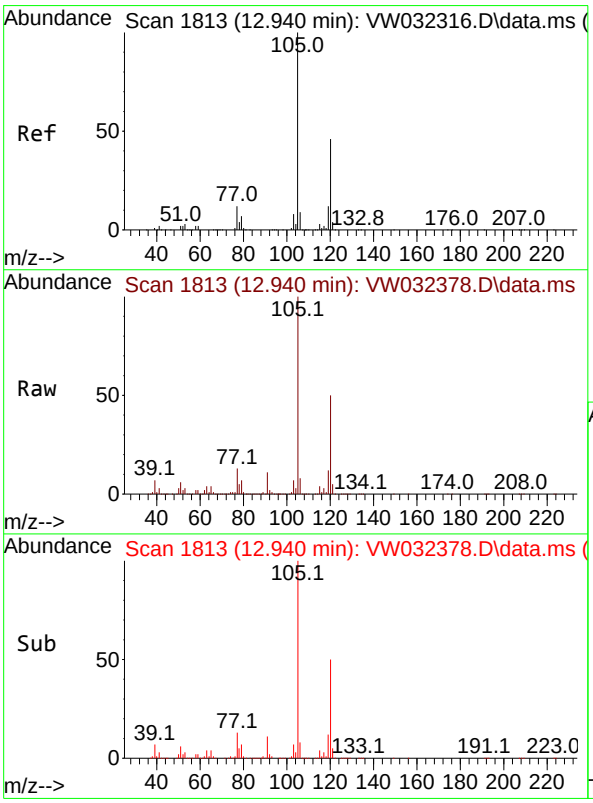
Ion	Ratio	Lower	Upper
91	100		
126	32.6	16.6	49.7



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

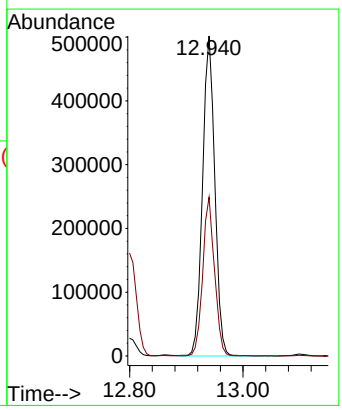
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

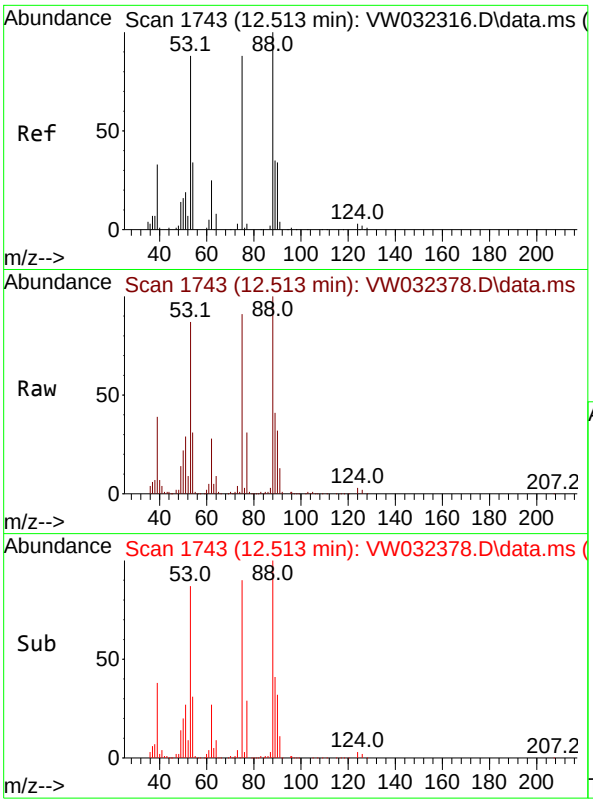


#80
1,3,5-Trimethylbenzene
Concen: 54.209 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:105 Resp: 752875

Ion	Ratio	Lower	Upper
105	100		
120	47.7	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 57.667 ug/l
RT: 12.513 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

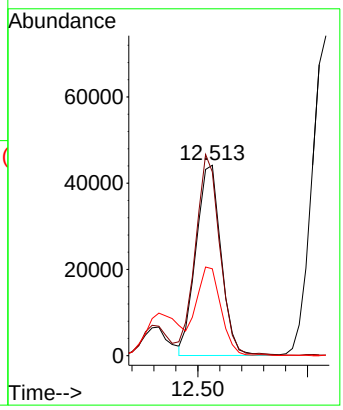
Tgt Ion: 75 Resp: 7032

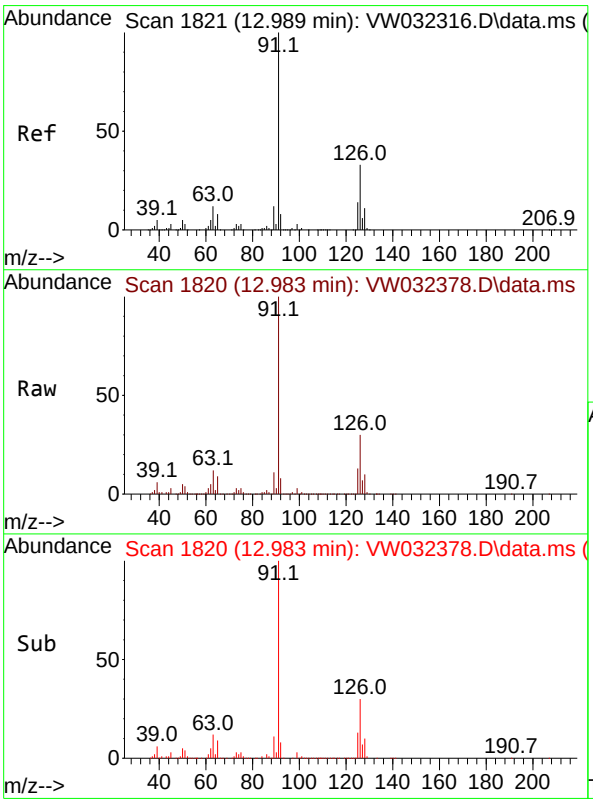
Ion	Ratio	Lower	Upper
75	100		
53	103.7	91.0	136.6
89	45.6	39.4	59.2

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

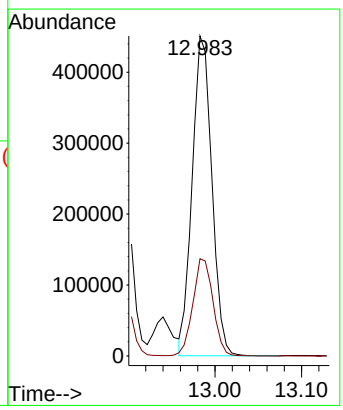


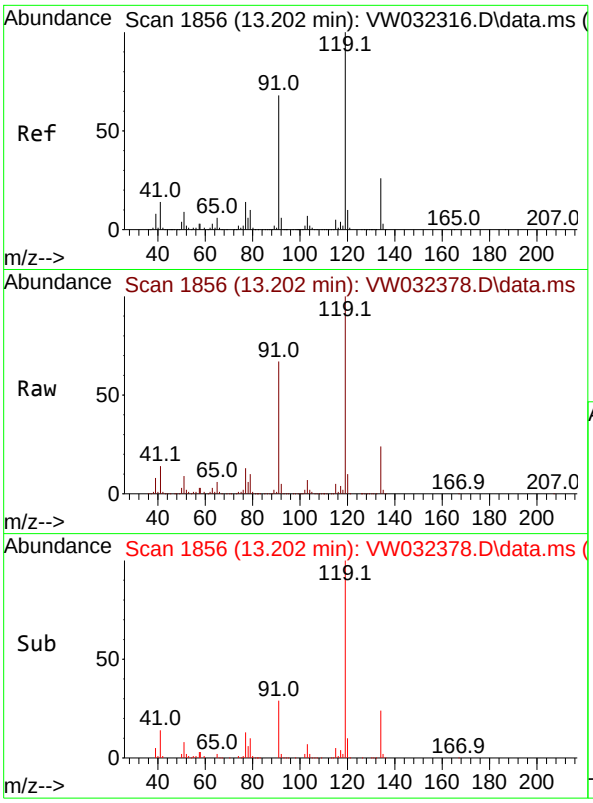


#82
4-Chlorotoluene
Concen: 54.437 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 91 Resp: 709987

Ion	Ratio	Lower	Upper
91	100		
126	31.2	16.1	48.2





#83
tert-Butylbenzene
Concen: 56.237 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

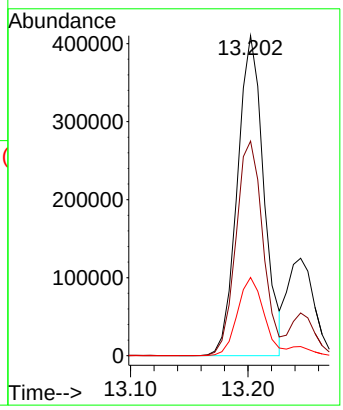
Tgt Ion:119 Resp: 64084

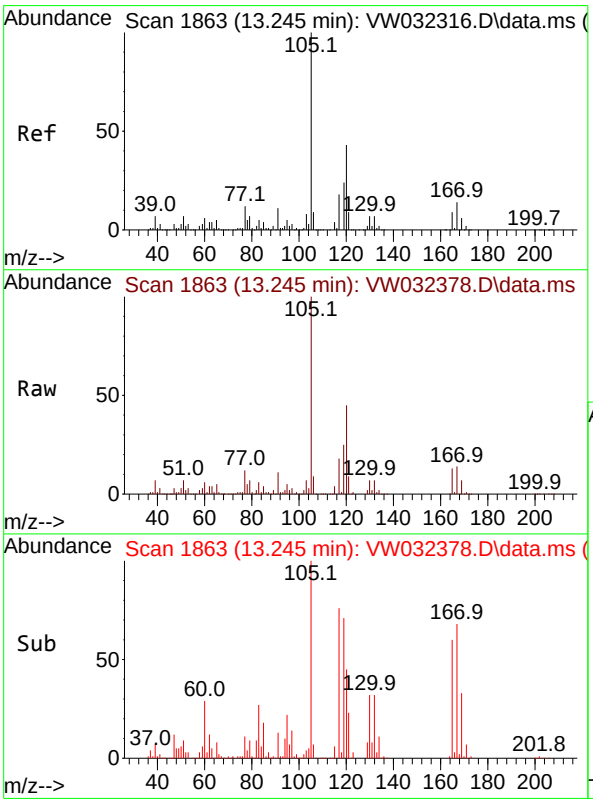
Ion	Ratio	Lower	Upper
119	100		
91	68.2	33.8	101.3
134	24.6	12.5	37.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

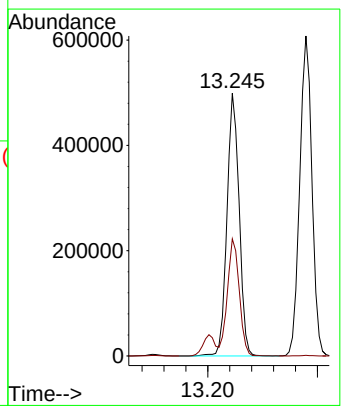


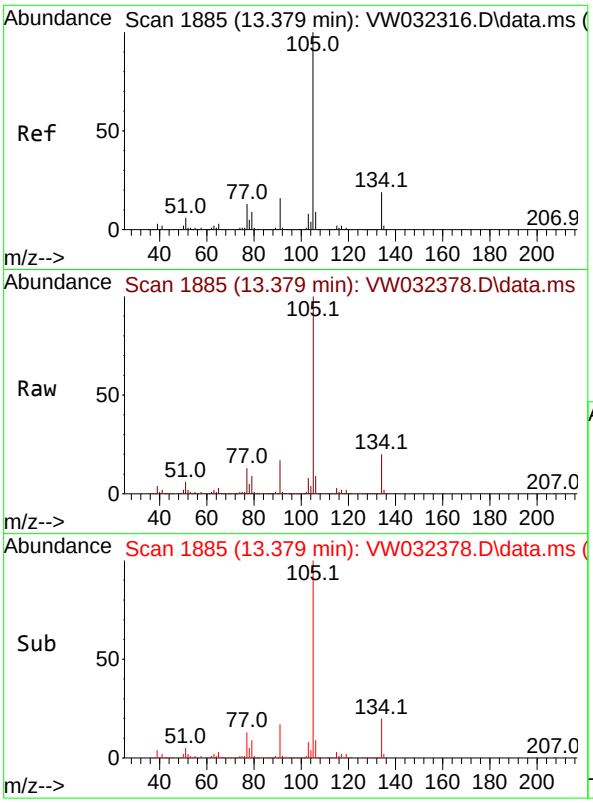


#84
1,2,4-Trimethylbenzene
Concen: 54.602 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:105 Resp: 771106

Ion	Ratio	Lower	Upper
105	100		
120	43.6	22.1	66.3

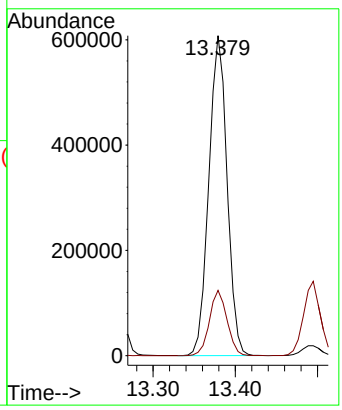




#85
sec-Butylbenzene
Concen: 53.756 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:105 Resp: 93612

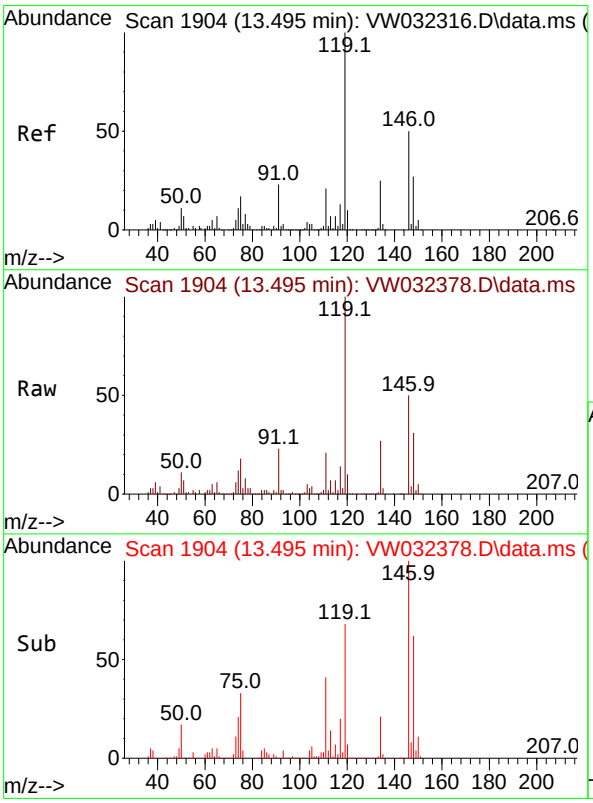
Ion	Ratio	Lower	Upper
105	100		
134	19.7	10.1	30.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

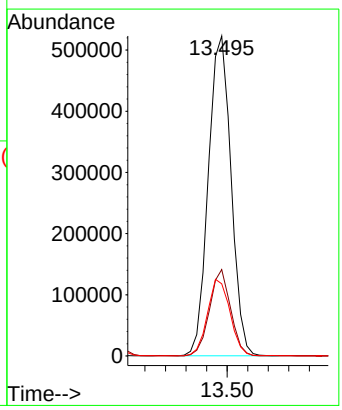
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

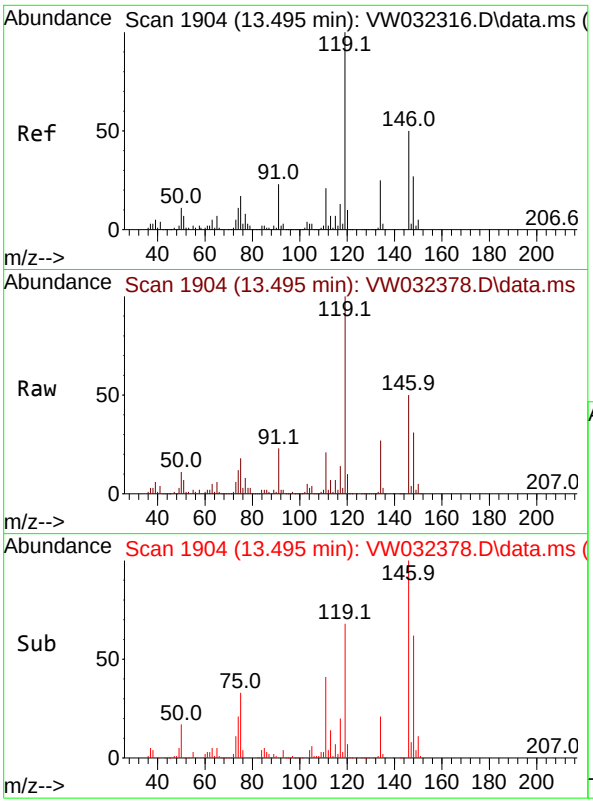


#86
p-Isopropyltoluene
Concen: 55.381 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:119 Resp: 800220

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.6	37.6
91	23.8	12.4	37.0

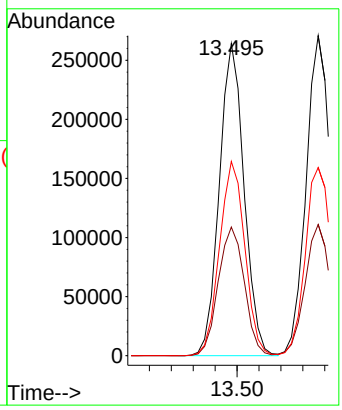




#87
1,3-Dichlorobenzene
Concen: 52.884 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:146 Resp: 41461

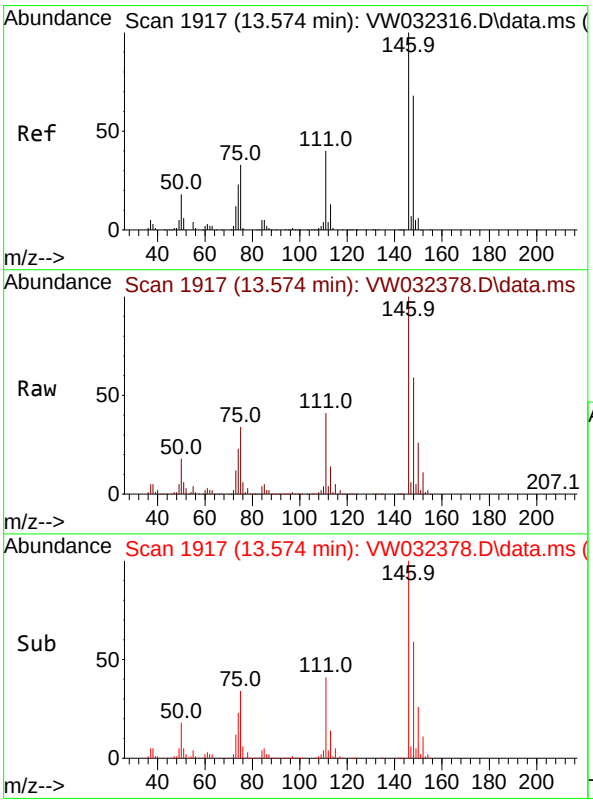
Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.6	61.9
148	63.7	30.6	92.0



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

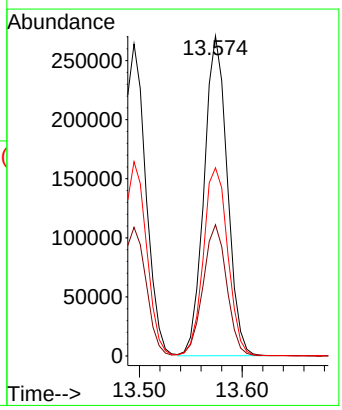
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

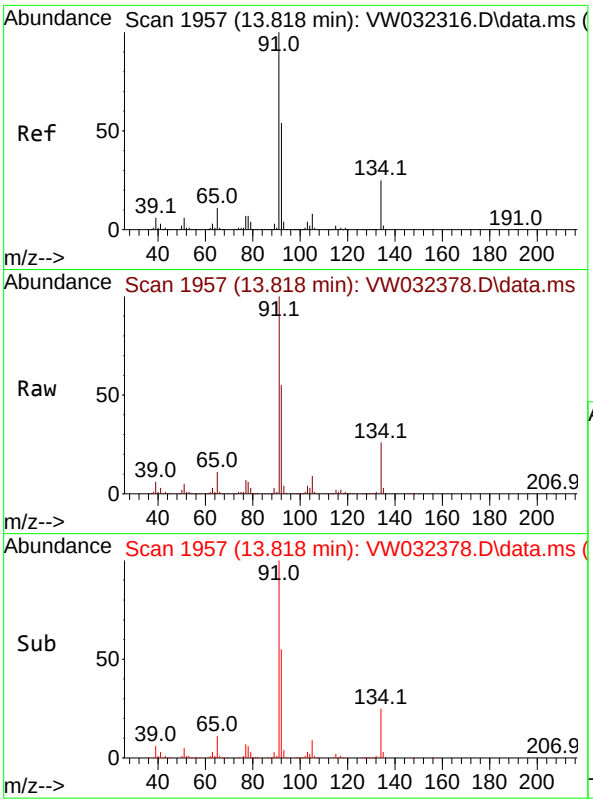


#88
1,4-Dichlorobenzene
Concen: 54.068 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:146 Resp: 423851

Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.3	63.7
148	62.0	33.4	100.1

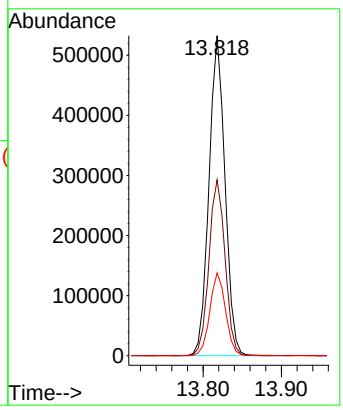




#89
n-Butylbenzene
Concen: 53.414 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

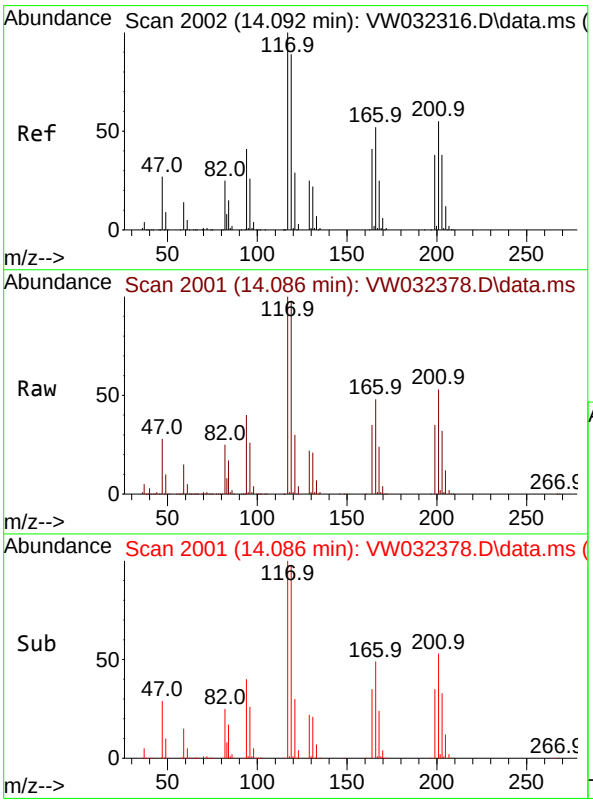
Tgt Ion: 91 Resp: 75356

Ion	Ratio	Lower	Upper
91	100		
92	55.4	27.0	81.0
134	25.4	13.1	39.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

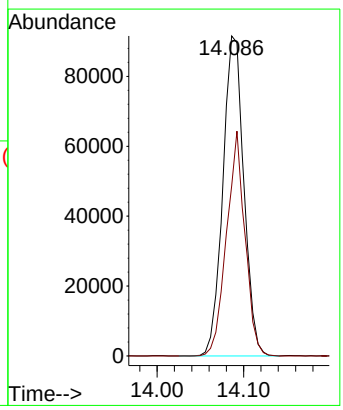
Manual Integrations APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

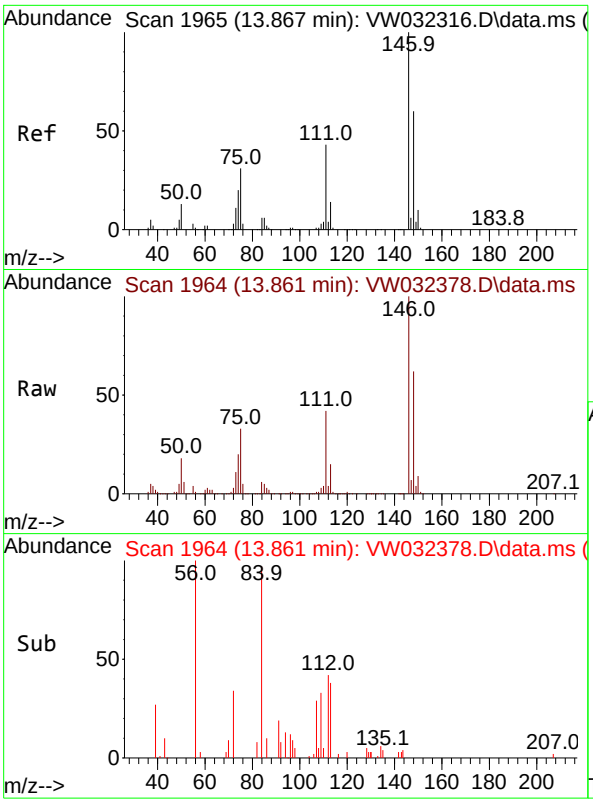


#90
Hexachloroethane
Concen: 59.535 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:117 Resp: 154192

Ion	Ratio	Lower	Upper
117	100		
201	61.8	32.8	98.4

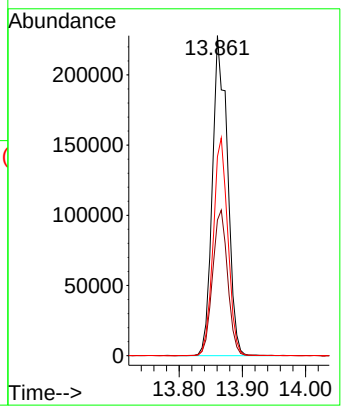




#91
1,2-Dichlorobenzene
Concen: 53.150 ug/l
RT: 13.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:146 Resp: 37667

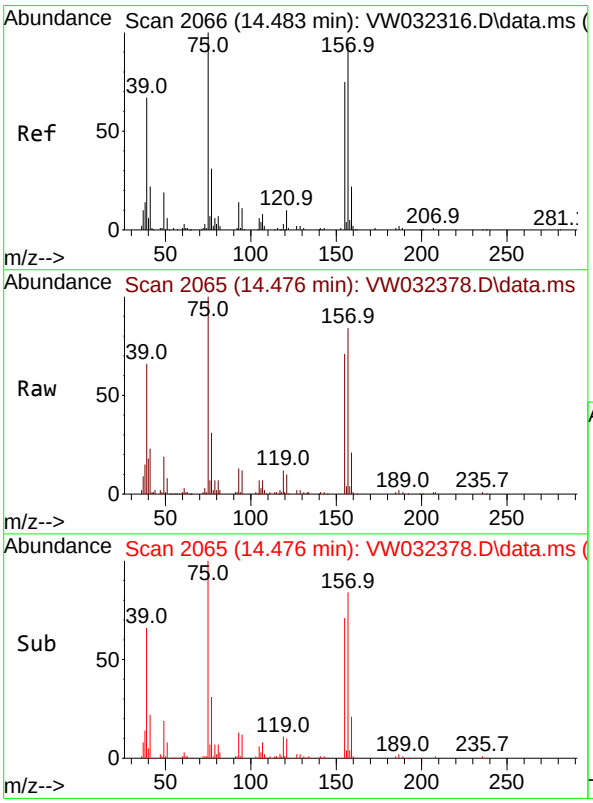
Ion	Ratio	Lower	Upper
146	100		
111	45.4	23.4	70.0
148	65.9	34.1	102.3



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

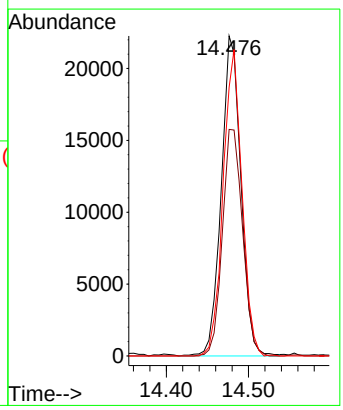
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

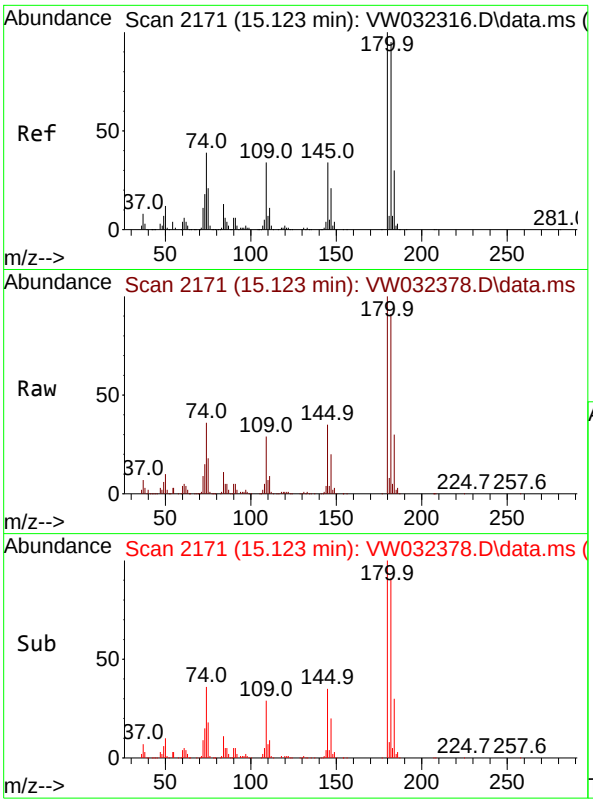


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.021 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion: 75 Resp: 37022

Ion	Ratio	Lower	Upper
75	100		
155	72.7	40.8	122.5
157	91.7	51.8	155.4

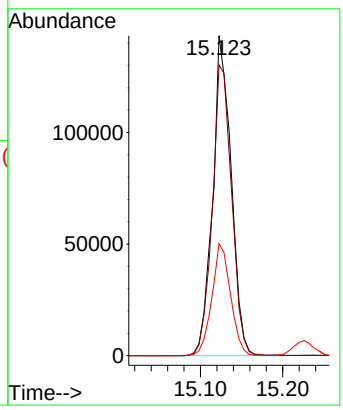




#93
1,2,4-Trichlorobenzene
Concen: 52.878 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:180 Resp: 22471

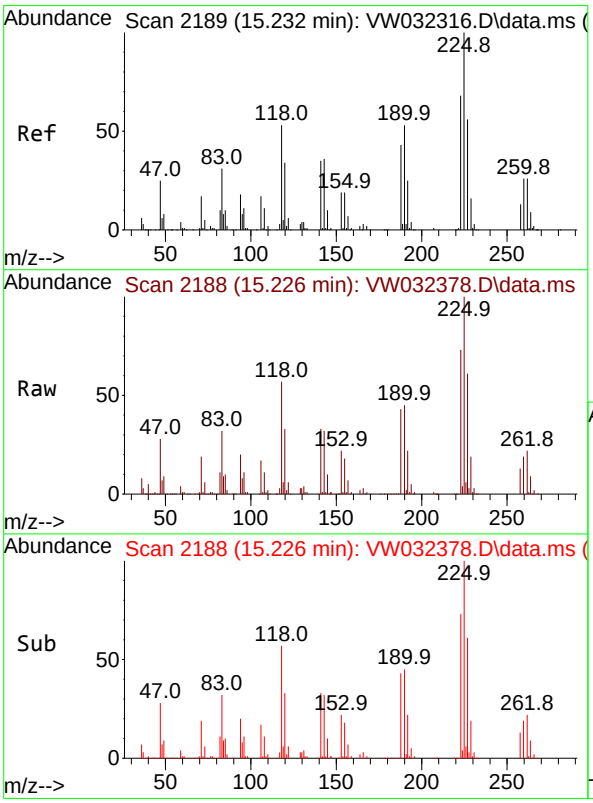
Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.4	142.2
145	35.5	16.4	49.1



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

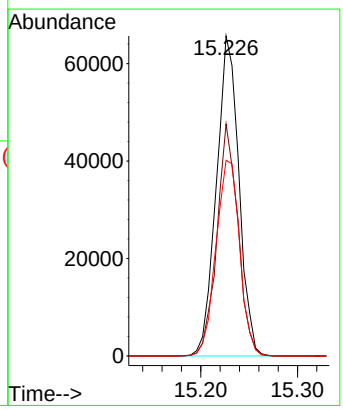
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

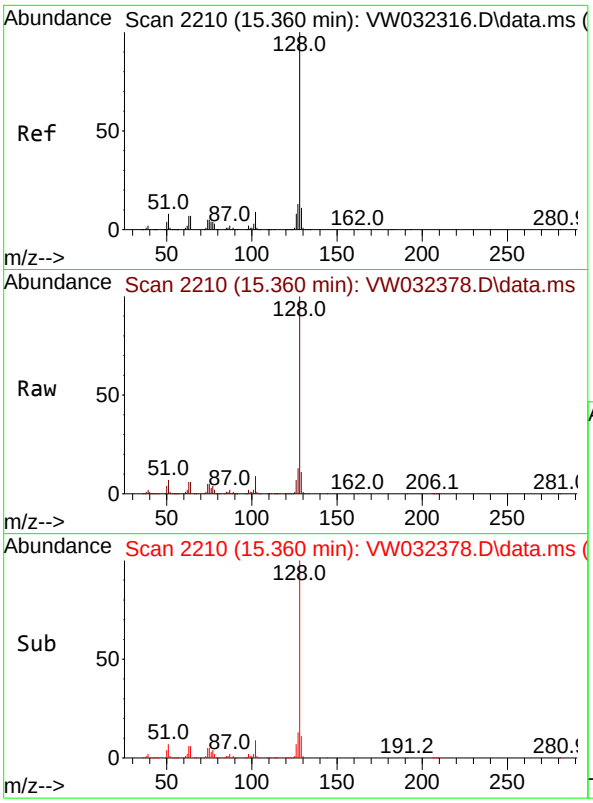


#94
Hexachlorobutadiene
Concen: 54.498 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:225 Resp: 105887

Ion	Ratio	Lower	Upper
225	100		
223	67.9	29.8	89.3
227	64.3	30.5	91.5

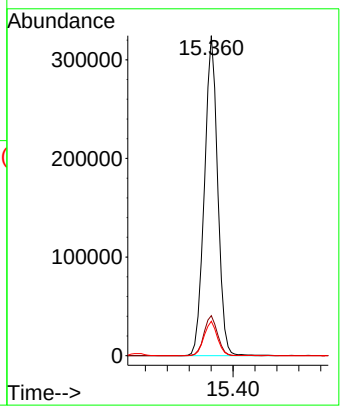




#95
Naphthalene
Concen: 53.140 ug/l
RT: 15.360 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:128 Resp: 54233

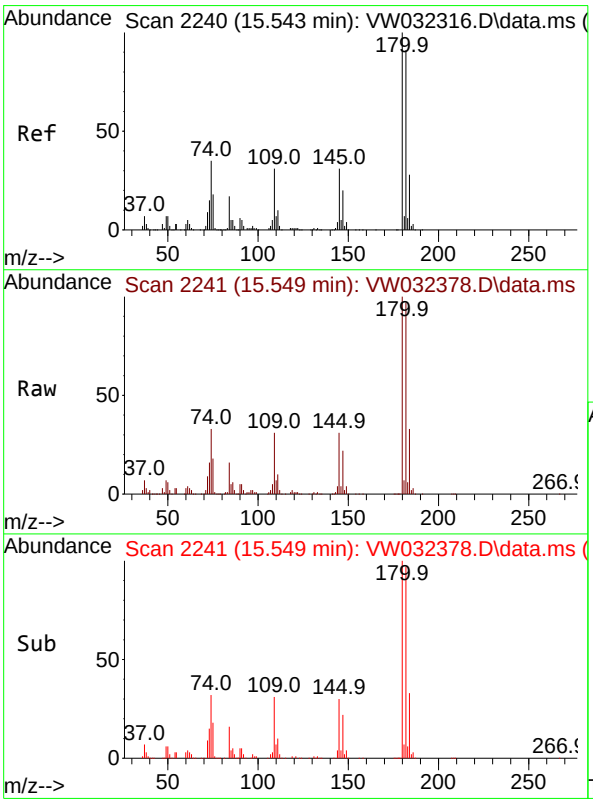
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	16.0
129	10.9	8.4	12.6



Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

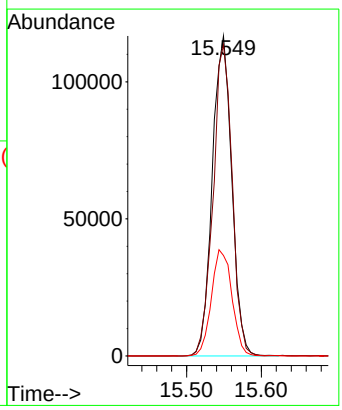
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.854 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.006 min
Lab File: VW032378.D
Acq: 20 Oct 2025 10:20

Tgt Ion:180 Resp: 211711

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.7	143.1
145	35.0	17.2	51.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032378.D
Acq On : 20 Oct 2025 10:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Oct 21 01:22:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 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	95	0.00
2	T	Dichlorodifluoromethane	0.314	0.311	1.0	112	0.00
3	P	Chloromethane	0.484	0.459	5.2	105	0.00
4	C	Vinyl Chloride	0.578	0.608	-5.2#	110	0.00
5	T	Bromomethane	0.425	0.444	-4.5	111	0.00
6	T	Chloroethane	0.382	0.416	-8.9	112	0.00
7	T	Trichlorofluoromethane	0.433	0.501	-15.7	114	0.00
8	T	Diethyl Ether	0.375	0.402	-7.2	111	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.519	0.563	-8.5	116	0.00
10	T	Methyl Iodide	0.741	0.844	-13.9	116	0.00
11	T	Tert butyl alcohol	0.055	0.047	14.5	91	0.00
12	CM	1,1-Dichloroethene	0.564	0.625	-10.8#	115	0.00
13	T	Acrolein	0.090	0.031	65.6#	37#	0.00
14	T	Allyl chloride	0.952	1.020	-7.1	107	0.00
15	T	Acrylonitrile	0.195	0.201	-3.1	102	0.00
16	T	Acetone	0.202	0.196	3.0	102	0.00
17	T	Carbon Disulfide	1.538	1.711	-11.2	113	0.00
18	T	Methyl Acetate	0.578	0.649	-12.3	99	0.00
19	T	Methyl tert-butyl Ether	1.110	1.198	-7.9	107	0.00
20	T	Methylene Chloride	0.838	0.723	13.7	109	0.00
21	T	trans-1,2-Dichloroethene	0.624	0.698	-11.9	113	0.00
22	T	Diisopropyl ether	1.979	2.191	-10.7	110	0.00
23	T	Vinyl Acetate	1.322	1.403	-6.1	107	0.00
24	P	1,1-Dichloroethane	1.203	1.322	-9.9	112	0.00
25	T	2-Butanone	0.275	0.276	-0.4	101	0.00
26	T	2,2-Dichloropropane	0.615	0.700	-13.8	116	0.00
27	T	cis-1,2-Dichloroethene	0.749	0.820	-9.5	109	0.00
28	T	Bromochloromethane	0.566	0.610	-7.8	106	0.00
29	T	Tetrahydrofuran	0.173	0.179	-3.5	100	0.00
30	C	Chloroform	1.220	1.377	-12.9#	115	0.00
31	T	Cyclohexane	1.027	1.031	-0.4	108	0.00
32	T	1,1,1-Trichloroethane	0.864	0.981	-13.5	115	0.00
33	S	1,2-Dichloroethane-d4	0.729	0.743	-1.9	102	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35	S	Dibromofluoromethane	0.324	0.347	-7.1	107	0.00
36	T	1,1-Dichloropropene	0.457	0.513	-12.3	110	0.00
37	T	Ethyl Acetate	0.304	0.311	-2.3	101	0.00
38	T	Carbon Tetrachloride	0.430	0.504	-17.2	118	0.00
39	T	Methylcyclohexane	0.551	0.593	-7.6	107	0.00
40	TM	Benzene	1.432	1.599	-11.7	112	0.00
41	T	Methacrylonitrile	0.164	0.178	-8.5	103	0.00
42	TM	1,2-Dichloroethane	0.469	0.515	-9.8	110	0.00
43	T	Isopropyl Acetate	0.540	0.591	-9.4	107	0.00
44	TM	Trichloroethene	0.335	0.366	-9.3	111	0.00
45	C	1,2-Dichloropropane	0.358	0.402	-12.3#	111	0.00
46	T	Dibromomethane	0.220	0.246	-11.8	110	0.00
47	T	Bromodichloromethane	0.503	0.597	-18.7	117	0.00
48	T	Methyl methacrylate	0.262	0.276	-5.3	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032378.D
Acq On : 20 Oct 2025 10:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Oct 21 01:22:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 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	0.003	0.003	0.0	101	0.00
50	S	Toluene-d8	1.195	1.278	-6.9	101	0.00
51	T	4-Methyl-2-Pentanone	0.313	0.344	-9.9	104	0.00
52	CM	Toluene	0.892	1.027	-15.1#	113	0.00
53	T	t-1,3-Dichloropropene	0.488	0.563	-15.4	111	0.00
54	T	cis-1,3-Dichloropropene	0.562	0.643	-14.4	111	0.00
55	T	1,1,2-Trichloroethane	0.294	0.336	-14.3	113	0.00
56	T	Ethyl methacrylate	0.411	0.464	-12.9	107	0.00
57	T	1,3-Dichloropropane	0.519	0.578	-11.4	109	0.00
58	T	2-Chloroethyl Vinyl ether	0.219	0.252	-15.1	98	0.00
59	T	2-Hexanone	0.220	0.244	-10.9	105	0.00
60	T	Dibromochloromethane	0.334	0.413	-23.7	119	0.00
61	T	1,2-Dibromoethane	0.287	0.319	-11.1	108	0.00
62	S	4-Bromofluorobenzene	0.452	0.470	-4.0	99	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
64	T	Tetrachloroethene	0.299	0.315	-5.4	108	0.00
65	PM	Chlorobenzene	1.100	1.171	-6.5	109	0.00
66	T	1,1,1,2-Tetrachloroethane	0.343	0.404	-17.8	122	0.00
67	C	Ethyl Benzene	1.834	2.060	-12.3#	113	0.00
68	T	m/p-Xylenes	0.707	0.797	-12.7	114	0.00
69	T	o-Xylene	0.661	0.740	-12.0	111	0.00
70	T	Styrene	1.155	1.345	-16.5	114	0.00
71	P	Bromoform	0.196	0.242	-23.5	122	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
73	T	Isopropylbenzene	3.421	3.733	-9.1	112	0.00
74	T	N-amyl acetate	1.091	1.117	-2.4	105	0.00
75	P	1,1,2,2-Tetrachloroethane	0.849	0.868	-2.2	108	0.00
76	T	1,2,3-Trichloropropane	0.658	0.655	0.5	108	0.00
77	T	Bromobenzene	0.825	0.889	-7.8	109	0.00
78	T	n-propylbenzene	4.273	4.654	-8.9	114	0.00
79	T	2-Chlorotoluene	2.613	2.780	-6.4	110	0.00
80	T	1,3,5-Trimethylbenzene	2.958	3.207	-8.4	110	0.00
81	T	trans-1,4-Dichloro-2-butene	0.260	0.300	-15.4	112	0.00
82	T	4-Chlorotoluene	2.778	3.024	-8.9	114	0.00
83	T	tert-Butylbenzene	2.427	2.730	-12.5	116	0.00
84	T	1,2,4-Trimethylbenzene	3.008	3.285	-9.2	111	0.00
85	T	sec-Butylbenzene	3.709	3.987	-7.5	112	0.00
86	T	p-Isopropyltoluene	3.077	3.409	-10.8	114	0.00
87	T	1,3-Dichlorobenzene	1.670	1.766	-5.7	111	0.00
88	T	1,4-Dichlorobenzene	1.670	1.805	-8.1	117	0.00
89	T	n-Butylbenzene	3.005	3.210	-6.8	111	0.00
90	T	Hexachloroethane	0.552	0.657	-19.0	126	0.00
91	T	1,2-Dichlorobenzene	1.509	1.604	-6.3	115	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.149	0.158	-6.0	108	0.00
93	T	1,2,4-Trichlorobenzene	0.905	0.957	-5.7	115	0.00
94	T	Hexachlorobutadiene	0.414	0.451	-8.9	125	0.00
95	T	Naphthalene	2.174	2.310	-6.3	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032378.D
Acq On : 20 Oct 2025 10:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Oct 21 01:22:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 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	0.853	0.902	-5.7	112	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032378.D
Acq On : 20 Oct 2025 10:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Oct 21 01:22:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 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	95	0.00
2	T	Dichlorodifluoromethane	50.000	49.525	1.0	112	0.00
3	P	Chloromethane	50.000	47.414	5.2	105	0.00
4	C	Vinyl Chloride	50.000	52.579	-5.2#	110	0.00
5	T	Bromomethane	50.000	52.244	-4.5	111	0.00
6	T	Chloroethane	50.000	54.521	-9.0	112	0.00
7	T	Trichlorofluoromethane	50.000	57.903	-15.8	114	0.00
8	T	Diethyl Ether	50.000	53.538	-7.1	111	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	54.231	-8.5	116	0.00
10	T	Methyl Iodide	50.000	56.977	-14.0	116	0.00
11	T	Tert butyl alcohol	250.000	212.423	15.0	91	0.00
12	CM	1,1-Dichloroethene	50.000	55.494	-11.0#	115	0.00
13	T	Acrolein	250.000	87.232	65.1#	37	0.00
14	T	Allyl chloride	50.000	53.572	-7.1	107	0.00
15	T	Acrylonitrile	250.000	257.055	-2.8	102	0.00
16	T	Acetone	250.000	242.037	3.2	102	0.00
17	T	Carbon Disulfide	50.000	55.631	-11.3	113	0.00
18	T	Methyl Acetate	50.000	56.056	-12.1	99	0.00
19	T	Methyl tert-butyl Ether	50.000	53.964	-7.9	107	0.00
20	T	Methylene Chloride	50.000	54.562	-9.1	109	0.00
21	T	trans-1,2-Dichloroethene	50.000	55.946	-11.9	113	0.00
22	T	Diisopropyl ether	50.000	55.352	-10.7	110	0.00
23	T	Vinyl Acetate	250.000	265.367	-6.1	107	0.00
24	P	1,1-Dichloroethane	50.000	54.958	-9.9	112	0.00
25	T	2-Butanone	250.000	250.876	-0.4	101	0.00
26	T	2,2-Dichloropropane	50.000	56.907	-13.8	116	0.00
27	T	cis-1,2-Dichloroethene	50.000	54.730	-9.5	109	0.00
28	T	Bromochloromethane	50.000	53.869	-7.7	106	0.00
29	T	Tetrahydrofuran	250.000	259.216	-3.7	100	0.00
30	C	Chloroform	50.000	56.448	-12.9#	115	0.00
31	T	Cyclohexane	50.000	50.212	-0.4	108	0.00
32	T	1,1,1-Trichloroethane	50.000	56.749	-13.5	115	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.924	-1.8	102	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35	S	Dibromofluoromethane	50.000	53.598	-7.2	107	0.00
36	T	1,1-Dichloropropene	50.000	56.099	-12.2	110	0.00
37	T	Ethyl Acetate	50.000	51.178	-2.4	101	0.00
38	T	Carbon Tetrachloride	50.000	58.585	-17.2	118	0.00
39	T	Methylcyclohexane	50.000	53.803	-7.6	107	0.00
40	TM	Benzene	50.000	55.818	-11.6	112	0.00
41	T	Methacrylonitrile	50.000	54.317	-8.6	103	0.00
42	TM	1,2-Dichloroethane	50.000	54.972	-9.9	110	0.00
43	T	Isopropyl Acetate	50.000	54.722	-9.4	107	0.00
44	TM	Trichloroethene	50.000	54.492	-9.0	111	0.00
45	C	1,2-Dichloropropane	50.000	56.170	-12.3#	111	0.00
46	T	Dibromomethane	50.000	56.022	-12.0	110	0.00
47	T	Bromodichloromethane	50.000	59.385	-18.8	117	0.00
48	T	Methyl methacrylate	50.000	52.640	-5.3	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032378.D
Acq On : 20 Oct 2025 10:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Oct 21 01:22:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 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	1099.123	-9.9	101	0.00
50	S	Toluene-d8	50.000	53.480	-7.0	101	0.00
51	T	4-Methyl-2-Pentanone	250.000	275.041	-10.0	104	0.00
52	CM	Toluene	50.000	57.552	-15.1#	113	0.00
53	T	t-1,3-Dichloropropene	50.000	57.719	-15.4	111	0.00
54	T	cis-1,3-Dichloropropene	50.000	57.231	-14.5	111	0.00
55	T	1,1,2-Trichloroethane	50.000	57.233	-14.5	113	0.00
56	T	Ethyl methacrylate	50.000	56.352	-12.7	107	0.00
57	T	1,3-Dichloropropane	50.000	55.655	-11.3	109	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	287.576	-15.0	98	0.00
59	T	2-Hexanone	250.000	276.684	-10.7	105	0.00
60	T	Dibromochloromethane	50.000	61.883	-23.8	119	0.00
61	T	1,2-Dibromoethane	50.000	55.617	-11.2	108	0.00
62	S	4-Bromofluorobenzene	50.000	52.021	-4.0	99	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	95	0.00
64	T	Tetrachloroethene	50.000	52.663	-5.3	108	0.00
65	PM	Chlorobenzene	50.000	53.221	-6.4	109	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	58.904	-17.8	122	0.00
67	C	Ethyl Benzene	50.000	56.174	-12.3#	113	0.00
68	T	m/p-Xylenes	100.000	112.736	-12.7	114	0.00
69	T	o-Xylene	50.000	55.988	-12.0	111	0.00
70	T	Styrene	50.000	58.262	-16.5	114	0.00
71	P	Bromoform	50.000	61.560	-23.1	122	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	100	0.00
73	T	Isopropylbenzene	50.000	54.560	-9.1	112	0.00
74	T	N-amyl acetate	50.000	51.189	-2.4	105	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.119	-2.2	108	0.00
76	T	1,2,3-Trichloropropane	50.000	49.739	0.5	108	0.00
77	T	Bromobenzene	50.000	53.907	-7.8	109	0.00
78	T	n-propylbenzene	50.000	54.462	-8.9	114	0.00
79	T	2-Chlorotoluene	50.000	53.203	-6.4	110	0.00
80	T	1,3,5-Trimethylbenzene	50.000	54.209	-8.4	110	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	57.667	-15.3	112	0.00
82	T	4-Chlorotoluene	50.000	54.437	-8.9	114	0.00
83	T	tert-Butylbenzene	50.000	56.237	-12.5	116	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.602	-9.2	111	0.00
85	T	sec-Butylbenzene	50.000	53.756	-7.5	112	0.00
86	T	p-Isopropyltoluene	50.000	55.381	-10.8	114	0.00
87	T	1,3-Dichlorobenzene	50.000	52.884	-5.8	111	0.00
88	T	1,4-Dichlorobenzene	50.000	54.068	-8.1	117	0.00
89	T	n-Butylbenzene	50.000	53.414	-6.8	111	0.00
90	T	Hexachloroethane	50.000	59.535	-19.1	126	0.00
91	T	1,2-Dichlorobenzene	50.000	53.150	-6.3	115	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	53.021	-6.0	108	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.878	-5.8	115	0.00
94	T	Hexachlorobutadiene	50.000	54.498	-9.0	125	0.00
95	T	Naphthalene	50.000	53.140	-6.3	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032378.D
Acq On : 20 Oct 2025 10:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_W
LabSampleId :
VSTDCCC050

Quant Time: Oct 21 01:22:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 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	52.854	-5.7	112	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:	AECO02
Lab Code:	ACE	SDG No.:	Q3393
Instrument ID:	MSVOA_Y	Calibration Date/Time:	10/20/2025 09:10
Lab File ID:	VY023495.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	0.313		-13.06	20
Chloromethane	0.490	0.411	0.1	-16.12	20
Vinyl Chloride	0.639	0.566		-11.42	20
Bromomethane	0.536	0.473		-11.75	20
Chloroethane	0.435	0.409		-5.98	20
Trichlorofluoromethane	0.887	0.849		-4.28	20
1,1,2-Trichlorotrifluoroethane	0.460	0.460		0	20
1,1-Dichloroethene	0.446	0.432		-3.14	20
Acetone	0.100	0.098		-2	20
Carbon Disulfide	1.277	1.195		-6.42	20
Methyl tert-butyl Ether	1.072	1.041		-2.89	20
Methyl Acetate	0.261	0.266		1.92	20
Methylene Chloride	0.538	0.486		-9.66	20
trans-1,2-Dichloroethene	0.491	0.495		0.81	20
1,1-Dichloroethane	0.796	0.781	0.1	-1.88	20
Cyclohexane	0.696	0.625		-10.2	20
2-Butanone	0.122	0.109		-10.66	20
Carbon Tetrachloride	0.493	0.541		9.74	20
cis-1,2-Dichloroethene	0.567	0.587		3.53	20
Bromochloromethane	0.297	0.251		-15.49	20
Chloroform	0.875	0.897		2.51	20
1,1,1-Trichloroethane	0.795	0.812		2.14	20
Methylcyclohexane	0.530	0.553		4.34	20
Benzene	1.288	1.374		6.68	20
1,2-Dichloroethane	0.332	0.341		2.71	20
Trichloroethene	0.377	0.407		7.96	20
1,2-Dichloropropane	0.285	0.306		7.37	20
Bromodichloromethane	0.453	0.495		9.27	20
4-Methyl-2-Pentanone	0.166	0.166		0	20
Toluene	0.836	0.928		11.01	20
t-1,3-Dichloropropene	0.394	0.415		5.33	20
cis-1,3-Dichloropropene	0.465	0.498		7.1	20
1,1,2-Trichloroethane	0.242	0.265		9.5	20
2-Hexanone	0.119	0.120		0.84	20
Dibromochloromethane	0.339	0.380		12.09	20
1,2-Dibromoethane	0.231	0.247		6.93	20
Tetrachloroethene	0.516	0.560		8.53	20
Chlorobenzene	1.087	1.159	0.3	6.62	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:	AECO02
Lab Code:	ACE	SDG No.:	Q3393
Instrument ID:	MSVOA_Y	Calibration Date/Time:	10/20/2025 09:10
Lab File ID:	VY023495.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	1.910		8.52	20
m/p-Xylenes	0.706	0.781		10.62	20
o-Xylene	0.662	0.731		10.42	20
Styrene	1.089	1.231		13.04	20
Bromoform	0.240	0.262	0.1	9.17	20
Isopropylbenzene	3.295	3.555		7.89	20
1,1,2,2-Tetrachloroethane	0.539	0.552	0.3	2.41	20
1,3-Dichlorobenzene	1.706	1.790		4.92	20
1,4-Dichlorobenzene	1.685	1.748		3.74	20
1,2-Dichlorobenzene	1.496	1.577		5.41	20
1,2-Dibromo-3-Chloropropane	0.088	0.085		-3.41	20
1,2,4-Trichlorobenzene	0.932	0.949		1.82	20
1,2,3-Trichlorobenzene	0.808	0.813		0.62	20
1,2-Dichloroethane-d4	0.418	0.377		-9.81	20
Dibromofluoromethane	0.307	0.316		2.93	20
Toluene-d8	1.144	1.163		1.66	20
4-Bromofluorobenzene	0.378	0.379		0.26	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\VY102025\
Data File : VY023495.D
Acq On : 20 Oct 2025 09:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 03:53:17 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 :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	545120	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	751162	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	672052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	355668	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	205714	45.129	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 90.260%			
35) Dibromofluoromethane	7.634	113	237529	51.463	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.920%			
50) Toluene-d8	10.109	98	873624	50.825	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 101.660%			
62) 4-Bromofluorobenzene	12.408	95	284330	50.104	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 100.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	170416	43.432	ug/l	99
3) Chloromethane	2.074	50	224255	41.955	ug/l	99
4) Vinyl Chloride	2.208	62	308272	44.279	ug/l	100
5) Bromomethane	2.598	94	257747	44.117	ug/l	97
6) Chloroethane	2.739	64	222991	46.989	ug/l	99
7) Trichlorofluoromethane	3.062	101	462702	47.866	ug/l	100
8) Diethyl Ether	3.458	74	118659	46.977	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	250918	50.022	ug/l	99
10) Methyl Iodide	4.007	142	309511	55.425	ug/l	100
11) Tert butyl alcohol	4.854	59	80964	238.750	ug/l	100
12) 1,1-Dichloroethene	3.793	96	235624	48.456	ug/l	97
13) Acrolein	3.659	56	42168	88.000	ug/l	100
14) Allyl chloride	4.385	41	270384	45.626	ug/l	97
15) Acrylonitrile	5.061	53	226050	233.847	ug/l	99
16) Acetone	3.866	43	267757	246.734	ug/l	99
17) Carbon Disulfide	4.110	76	651543	46.815	ug/l	100
18) Methyl Acetate	4.391	43	145077	50.963	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	567249	48.537	ug/l	97
20) Methylene Chloride	4.622	84	264941	45.149	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	270037	50.440	ug/l	98
22) Diisopropyl ether	6.025	45	632267	48.233	ug/l	98
23) Vinyl Acetate	5.964	43	1613870	227.456	ug/l	98
24) 1,1-Dichloroethane	5.921	63	425651	49.020	ug/l	99
25) 2-Butanone	6.896	43	297629	224.649	ug/l	99
26) 2,2-Dichloropropane	6.890	77	406197	50.981	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	320133	51.768	ug/l	96
28) Bromochloromethane	7.250	49	136791	42.199	ug/l	95
29) Tetrahydrofuran	7.262	42	165578	220.392	ug/l	96
30) Chloroform	7.427	83	488891	51.246	ug/l	100
31) Cyclohexane	7.701	56	340770	44.939	ug/l	97
32) 1,1,1-Trichloroethane	7.622	97	442692	51.062	ug/l	99
36) 1,1-Dichloropropene	7.841	75	327309	53.565	ug/l	100
37) Ethyl Acetate	6.988	43	117377	48.487	ug/l	98
38) Carbon Tetrachloride	7.823	117	406294	54.836	ug/l	98
39) Methylcyclohexane	9.109	83	415455	52.219	ug/l	100
40) Benzene	8.085	78	1031919	53.325	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023495.D
Acq On : 20 Oct 2025 09:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 03:53:17 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 :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.226	41	64538	49.293	ug/l		95
42) 1,2-Dichloroethane	8.158	62	256130	51.321	ug/l		98
43) Isopropyl Acetate	8.201	43	227762	47.184	ug/l		97
44) Trichloroethene	8.866	130	305416	53.923	ug/l		99
45) 1,2-Dichloropropane	9.146	63	229534	53.701	ug/l		100
46) Dibromomethane	9.231	93	144395	53.425	ug/l		97
47) Bromodichloromethane	9.426	83	371694	54.605	ug/l		99
48) Methyl methacrylate	9.225	41	108810	47.982	ug/l		93
49) 1,4-Dioxane	9.231	88	31612	1008.798	ug/l		96
51) 4-Methyl-2-Pentanone	9.999	43	624720	250.488	ug/l		99
52) Toluene	10.170	92	697136	55.484	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	311462	52.623	ug/l		96
54) cis-1,3-Dichloropropene	9.859	75	373914	53.527	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	198839	54.709	ug/l		96
56) Ethyl methacrylate	10.438	69	222978	53.185	ug/l		97
57) 1,3-Dichloropropane	10.719	76	307360	53.368	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	478017	254.520	ug/l		99
59) 2-Hexanone	10.762	43	450192	252.586	ug/l		98
60) Dibromochloromethane	10.914	129	285363	56.001	ug/l		99
61) 1,2-Dibromoethane	11.018	107	185560	53.534	ug/l		99
64) Tetrachloroethene	10.652	164	376068	54.195	ug/l		99
65) Chlorobenzene	11.444	112	778936	53.290	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	285040	54.723	ug/l		99
67) Ethyl Benzene	11.517	91	1283945	54.266	ug/l		100
68) m/p-Xylenes	11.627	106	1049774	110.619	ug/l		99
69) o-Xylene	11.956	106	491144	55.176	ug/l		98
70) Styrene	11.969	104	827476	56.530	ug/l		99
71) Bromoform	12.133	173	175761	54.399	ug/l	#	98
73) Isopropylbenzene	12.255	105	1264553	53.951	ug/l		100
74) N-amyl acetate	12.072	43	192168	45.646	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.505	83	196397	51.230	ug/l		99
76) 1,2,3-Trichloropropane	12.554	75	152304m	48.536	ug/l		
77) Bromobenzene	12.529	156	327531	52.562	ug/l		99
78) n-propylbenzene	12.597	91	1481587	54.623	ug/l		99
79) 2-Chlorotoluene	12.682	91	840142	52.894	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	1041828	55.006	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	64672	50.539	ug/l		98
82) 4-Chlorotoluene	12.779	91	875903	53.545	ug/l		99
83) tert-Butylbenzene	12.999	119	950505	54.352	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	1035061	54.758	ug/l		100
85) sec-Butylbenzene	13.176	105	1379527	54.992	ug/l		100
86) p-Isopropyltoluene	13.292	119	1178031	55.154	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	636760	52.476	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	621676	51.874	ug/l		99
89) n-Butylbenzene	13.615	91	1006820	54.099	ug/l		99
90) Hexachloroethane	13.877	117	244771	53.282	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	560913	52.725	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	30192	47.998	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	337509	50.889	ug/l		98
94) Hexachlorobutadiene	15.023	225	218682	52.895	ug/l		99
95) Naphthalene	15.145	128	508120	48.113	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	289016	50.310	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023495.D
Acq On : 20 Oct 2025 09:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 21 03:53:17 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 :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

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

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

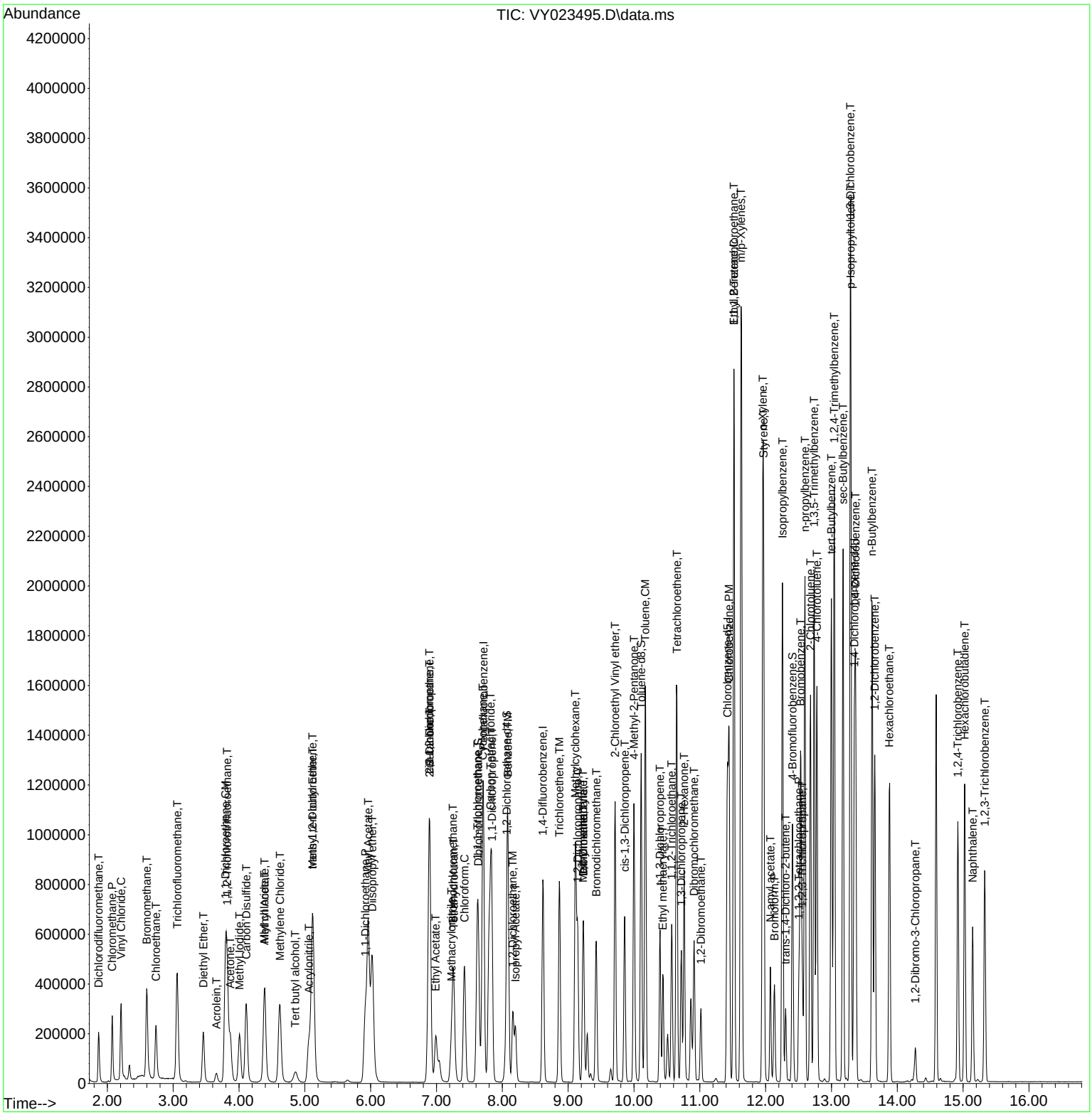
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023495.D
Acq On : 20 Oct 2025 09:10
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

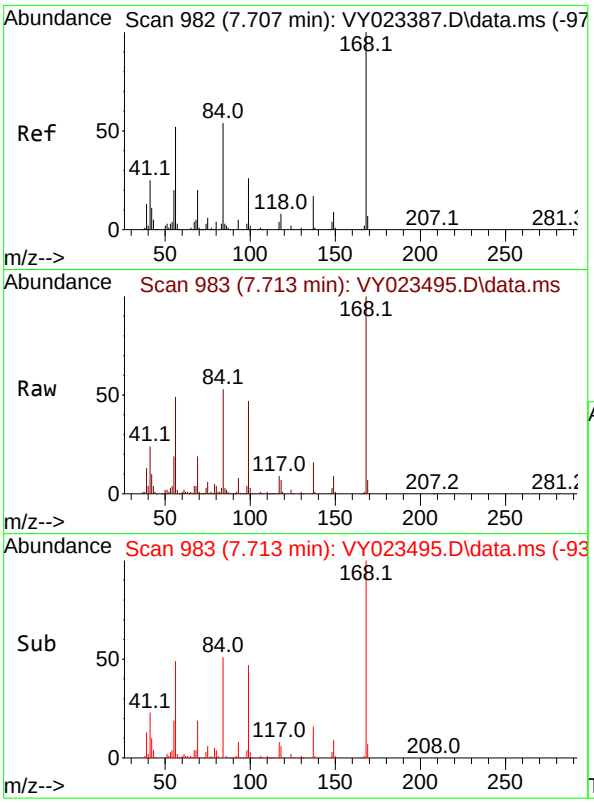
Quant Time: Oct 21 03:53:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

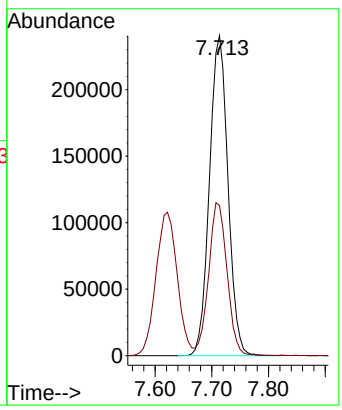




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:168 Resp: 54512

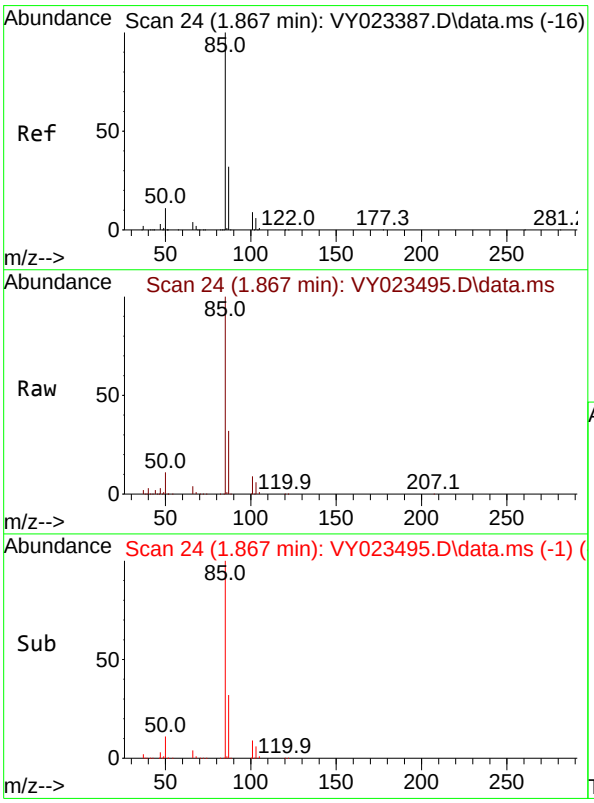
Ion	Ratio	Lower	Upper
168	100		
99	46.8	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

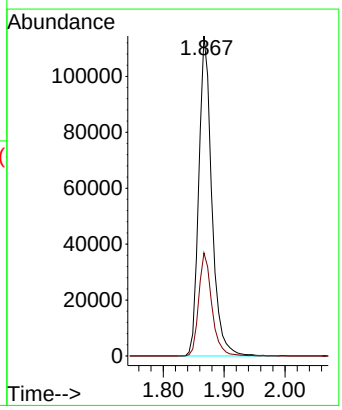
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

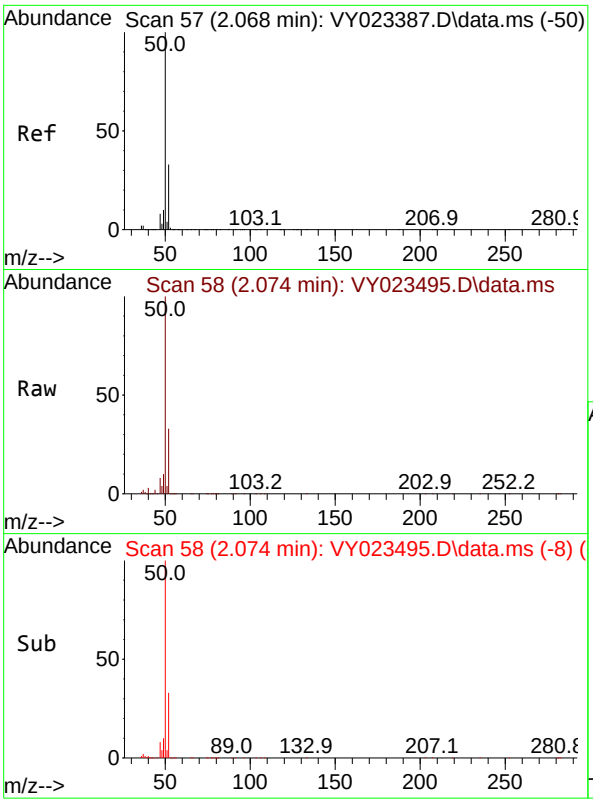


#2
Dichlorodifluoromethane
Concen: 43.432 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 85 Resp: 170416

Ion	Ratio	Lower	Upper
85	100		
87	32.2	16.0	47.9

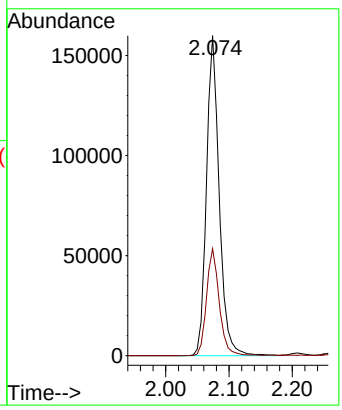




#3
Chloromethane
Concen: 41.955 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 50 Resp: 22425

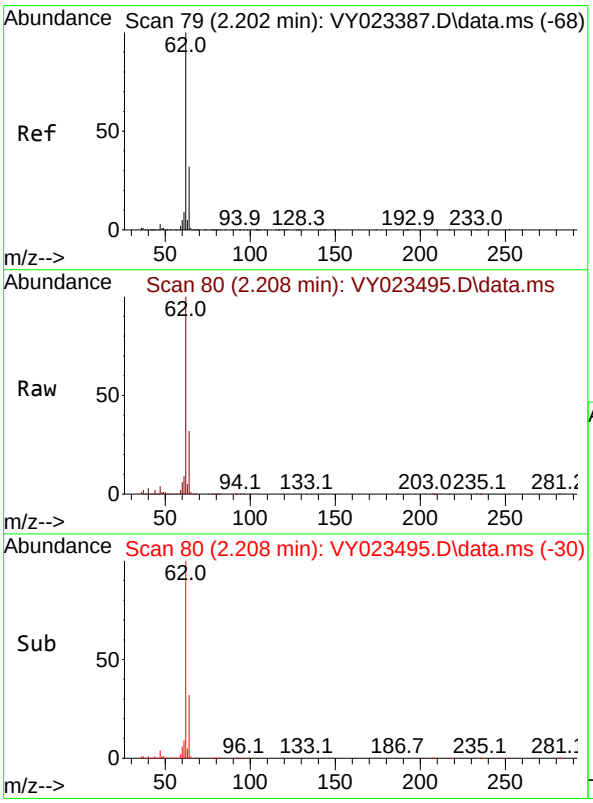
Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

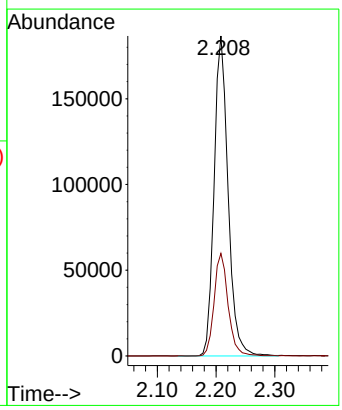
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

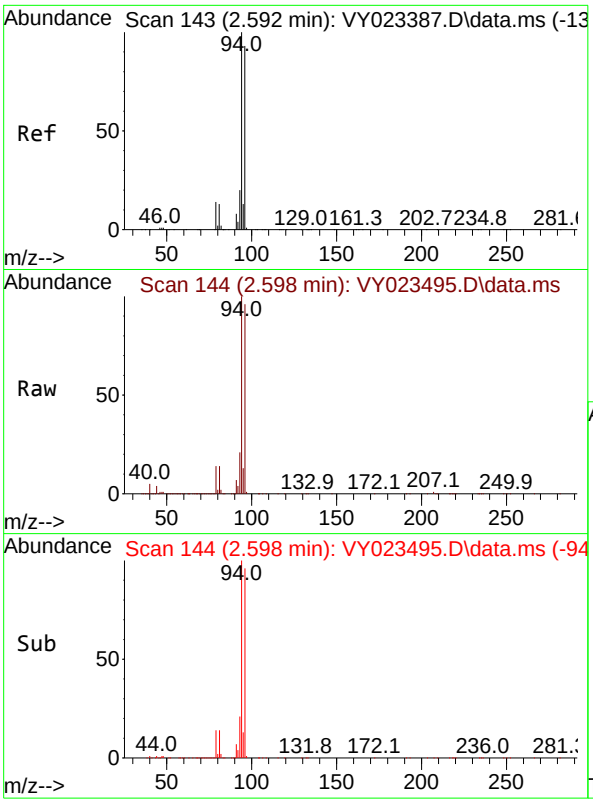


#4
Vinyl Chloride
Concen: 44.279 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 62 Resp: 308272

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.8	38.8

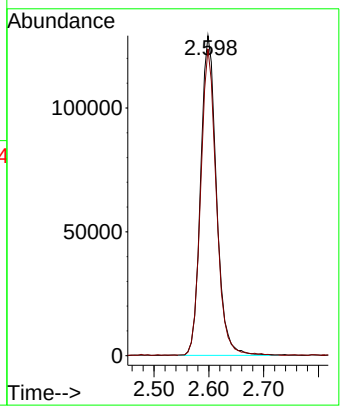




#5
Bromomethane
Concen: 44.117 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 94 Resp: 25774

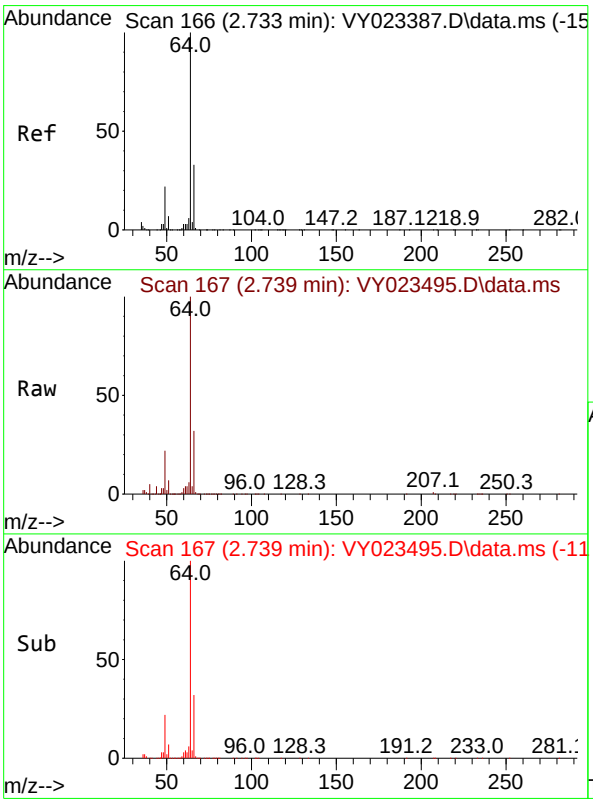
Ion	Ratio	Lower	Upper
94	100		
96	95.8	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

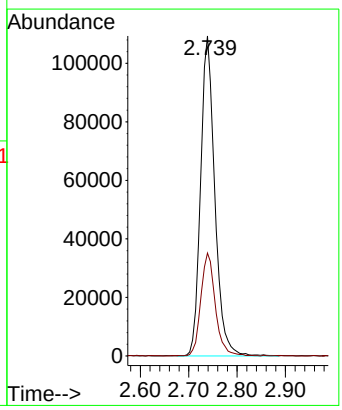
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

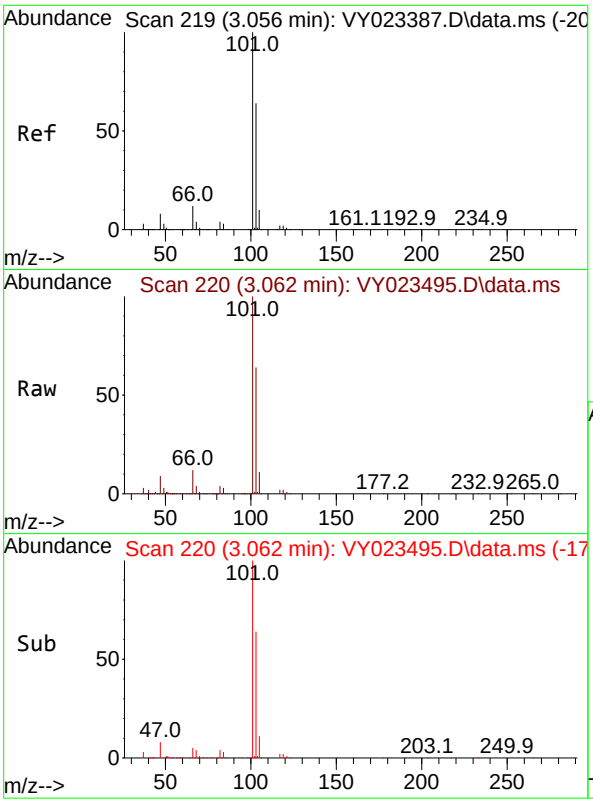


#6
Chloroethane
Concen: 46.989 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 64 Resp: 222991

Ion	Ratio	Lower	Upper
64	100		
66	32.0	26.2	39.4





#7
Trichlorofluoromethane
Concen: 47.866 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

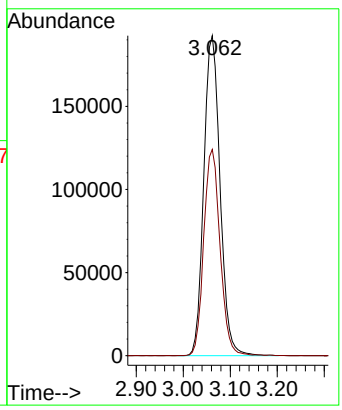
Tgt Ion:101 Resp: 46270

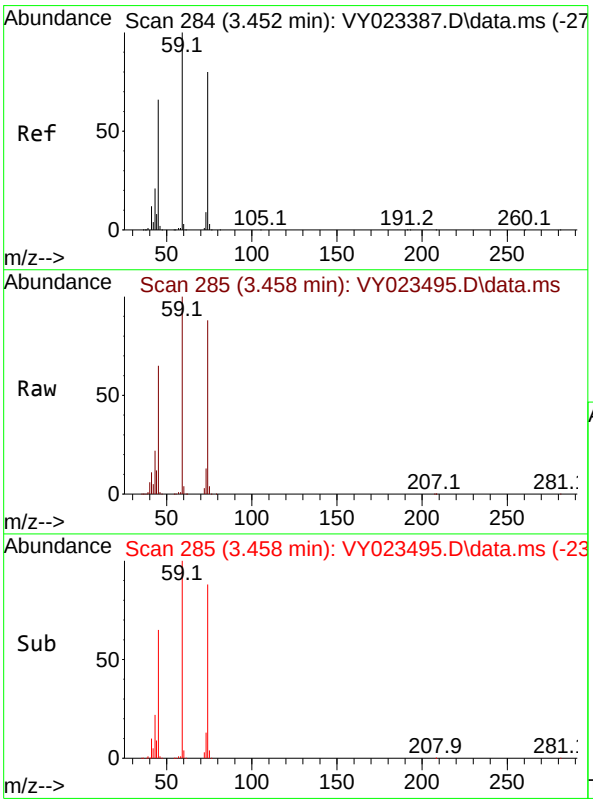
Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.3	76.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

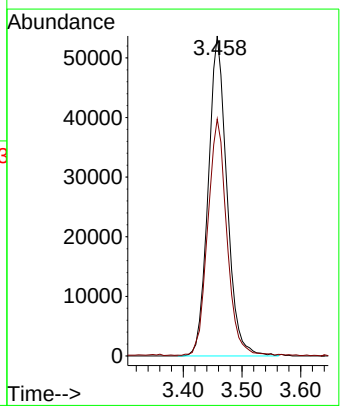


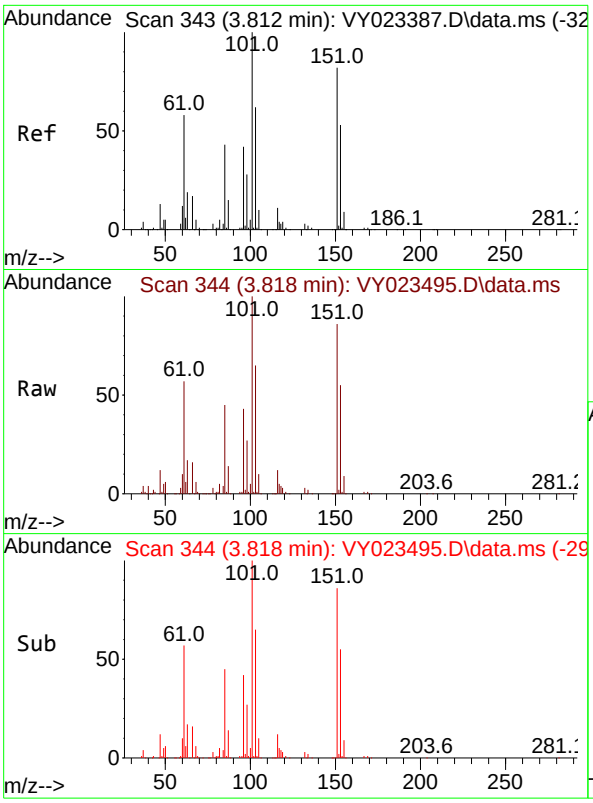


#8
Diethyl Ether
Concen: 46.977 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 74 Resp: 118659

Ion	Ratio	Lower	Upper
74	100		
45	75.2	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.022 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

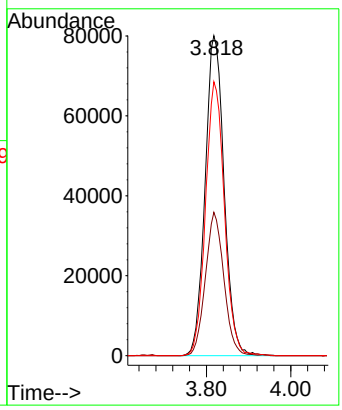
Tgt Ion:101 Resp: 250918

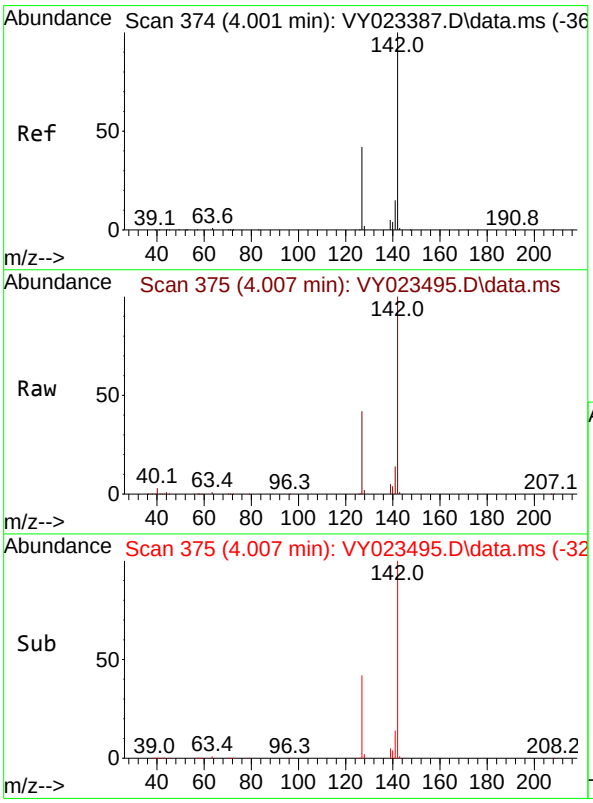
Ion	Ratio	Lower	Upper
101	100		
85	43.7	34.6	51.8
151	85.1	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

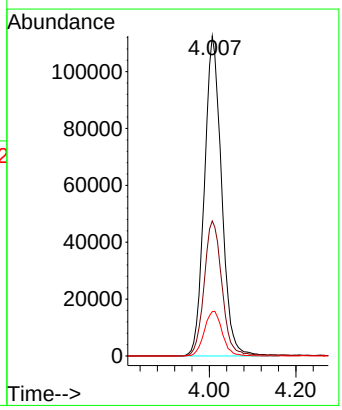


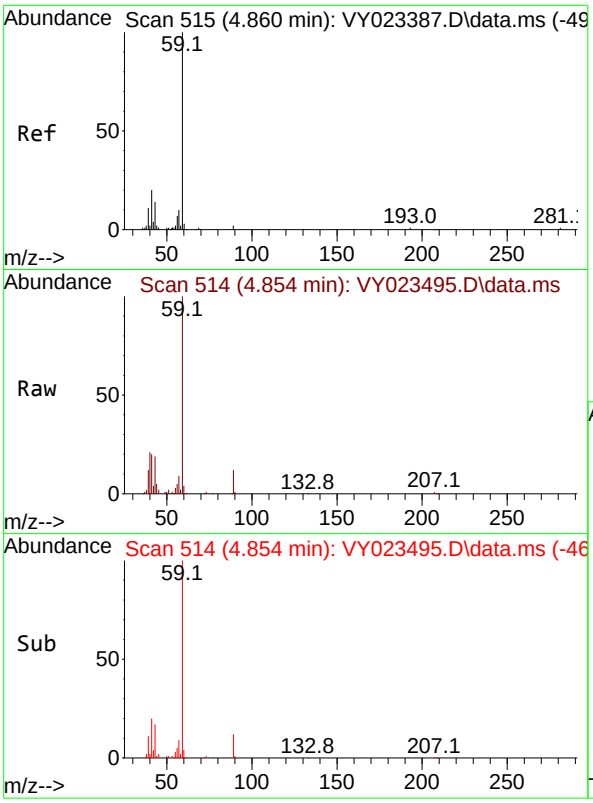


#10
Methyl Iodide
Concen: 55.425 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:142 Resp: 309511

Ion	Ratio	Lower	Upper
142	100		
127	43.6	34.8	52.2
141	14.6	11.6	17.4

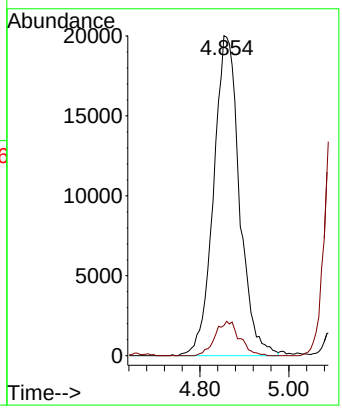




#11
Tert butyl alcohol
Concen: 238.750 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 59 Resp: 8096

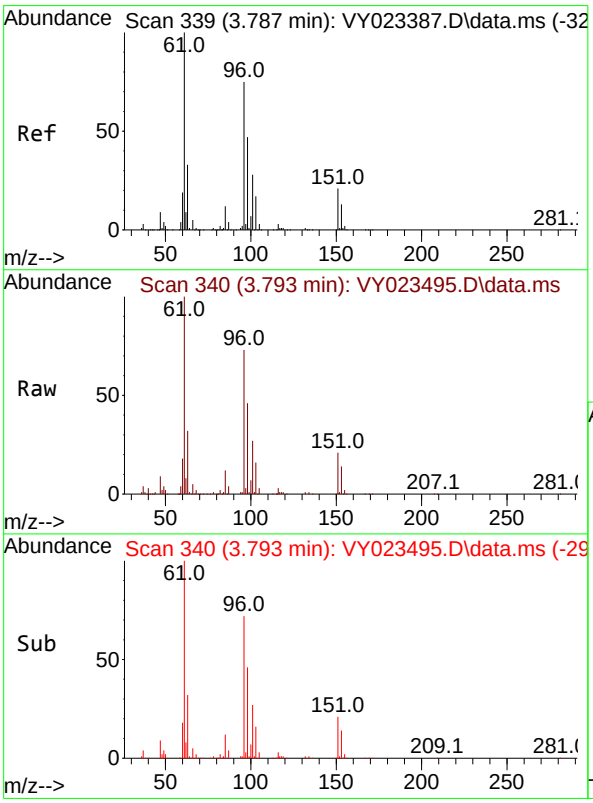
Ion	Ratio	Lower	Upper
59	100		
57	10.2	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

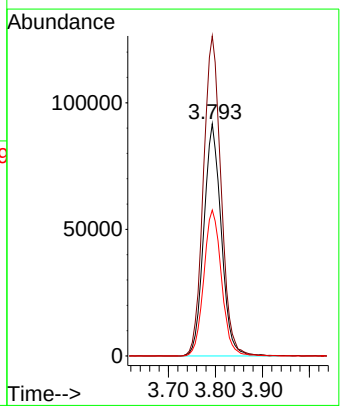
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

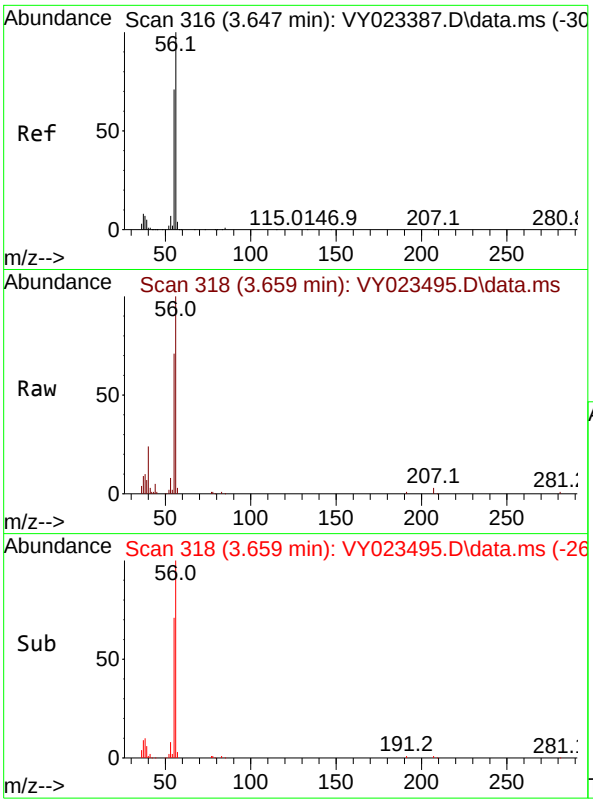


#12
1,1-Dichloroethene
Concen: 48.456 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 96 Resp: 235624

Ion	Ratio	Lower	Upper
96	100		
61	137.9	106.7	160.1
98	62.9	50.2	75.4

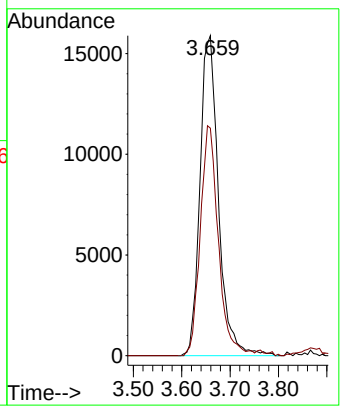




#13
Acrolein
Concen: 88.000 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 56 Resp: 4216

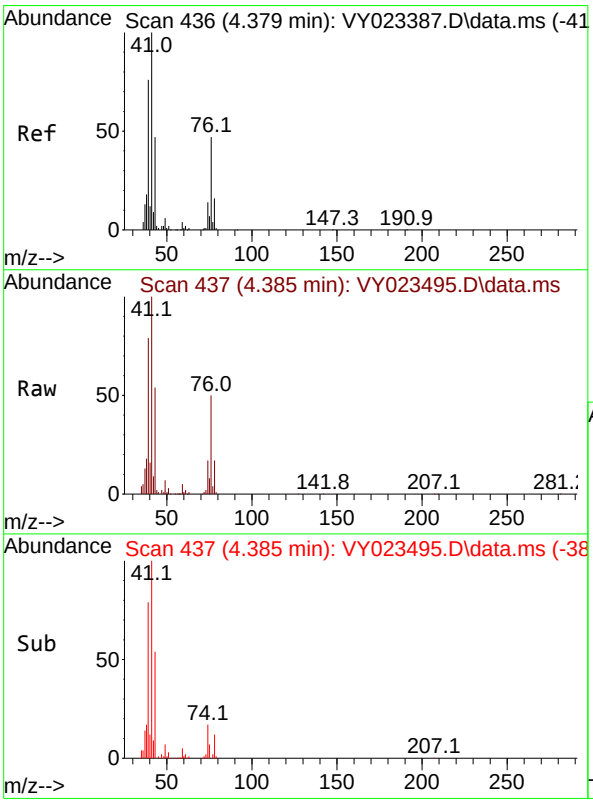
Ion	Ratio	Lower	Upper
56	100		
55	70.3	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

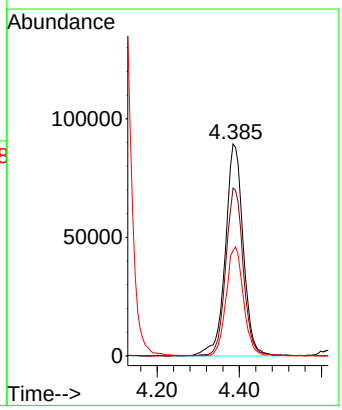
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

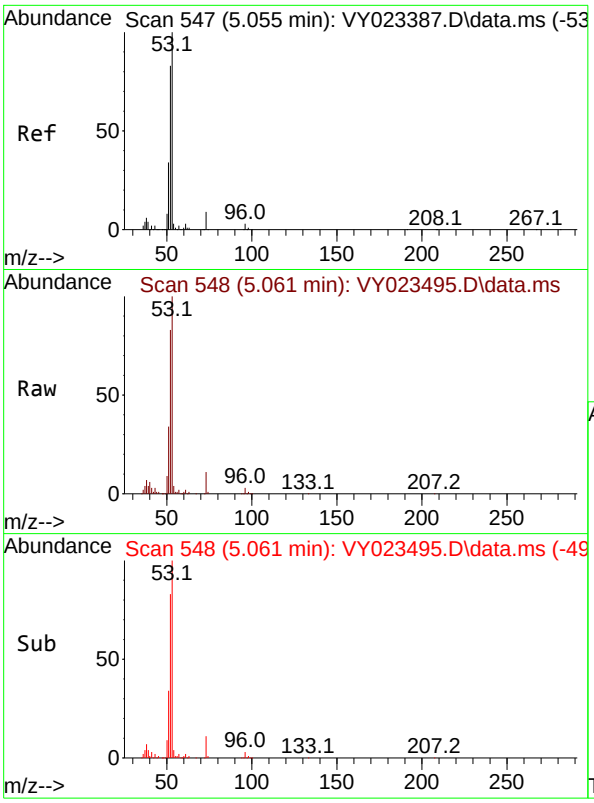


#14
Allyl chloride
Concen: 45.626 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 41 Resp: 270384

Ion	Ratio	Lower	Upper
41	100		
39	77.6	59.9	89.9
76	49.6	38.0	57.0

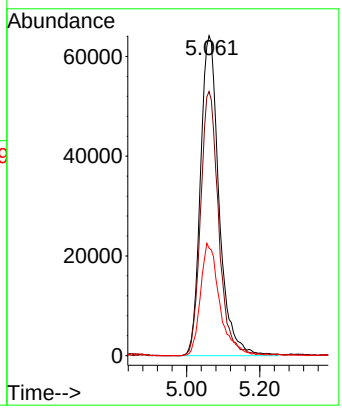




#15
Acrylonitrile
Concen: 233.847 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 53 Resp: 22605

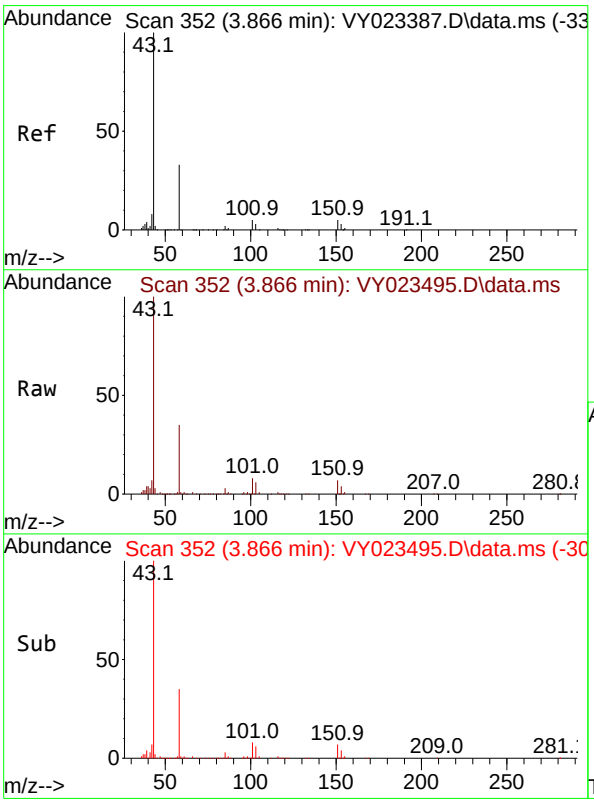
Ion	Ratio	Lower	Upper
53	100		
52	80.1	64.6	97.0
51	36.6	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

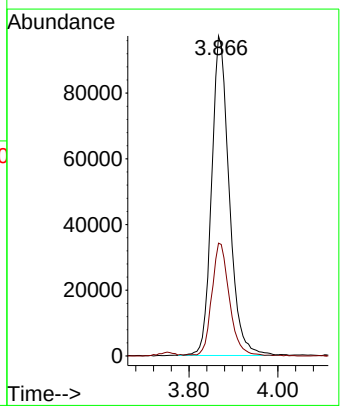
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

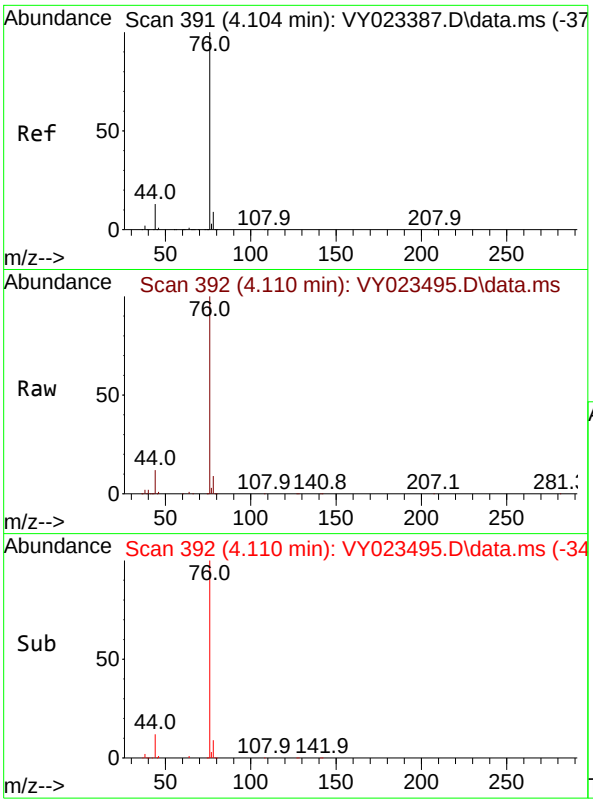


#16
Acetone
Concen: 246.734 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 43 Resp: 267757

Ion	Ratio	Lower	Upper
43	100		
58	35.1	27.7	41.5

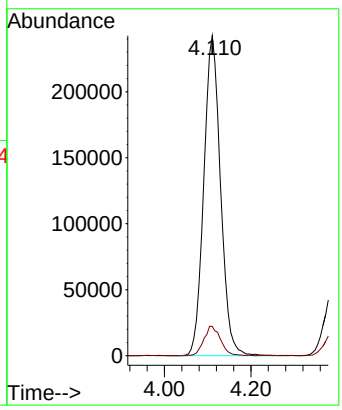




#17
Carbon Disulfide
Concen: 46.815 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 76 Resp: 65154

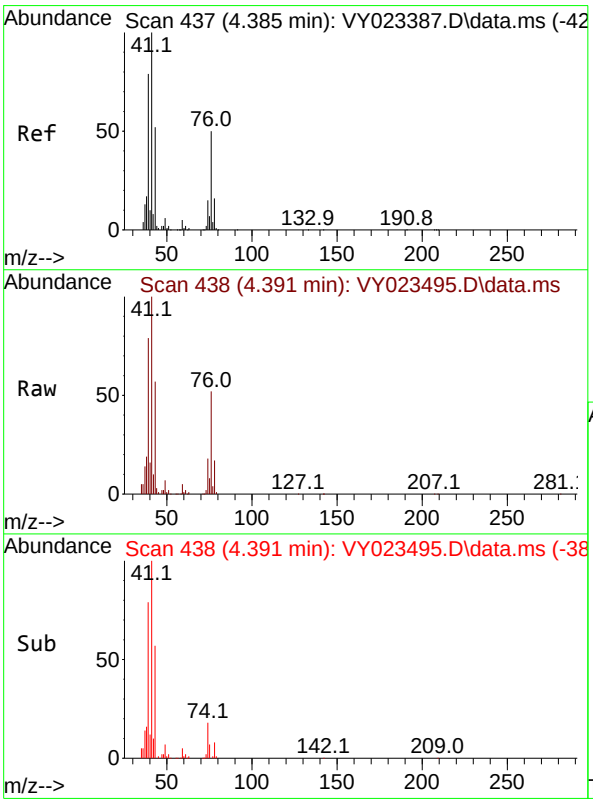
Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

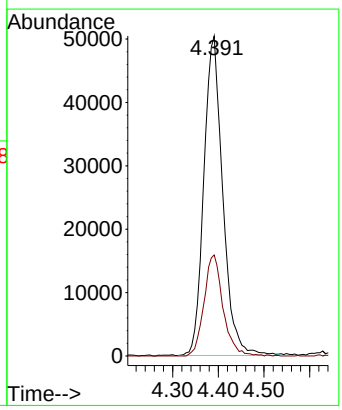
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

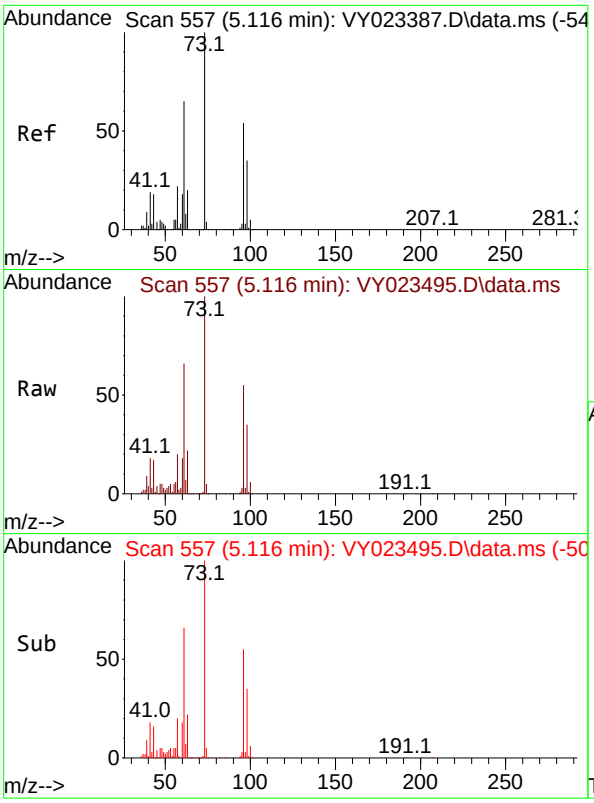


#18
Methyl Acetate
Concen: 50.963 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 43 Resp: 145077

Ion	Ratio	Lower	Upper
43	100		
74	31.7	24.2	36.4

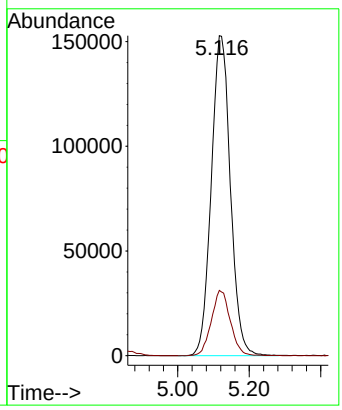




#19
Methyl tert-butyl Ether
Concen: 48.537 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 73 Resp: 56724

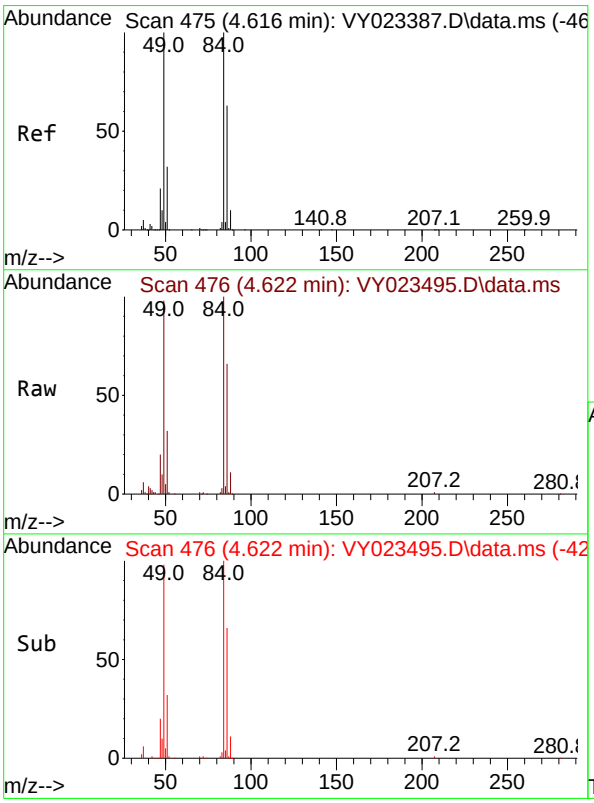
Ion	Ratio	Lower	Upper
73	100		
57	20.4	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

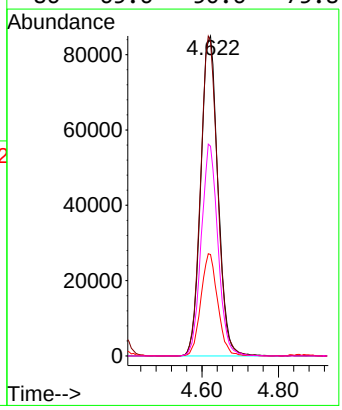
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

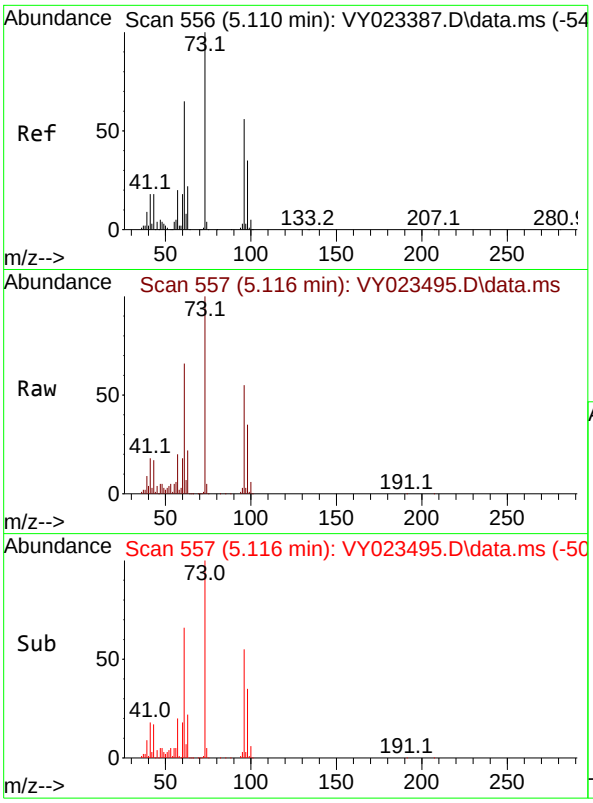


#20
Methylene Chloride
Concen: 45.149 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 84 Resp: 264941

Ion	Ratio	Lower	Upper
84	100		
49	98.4	80.2	120.4
51	31.7	25.9	38.9
86	65.6	50.6	75.8

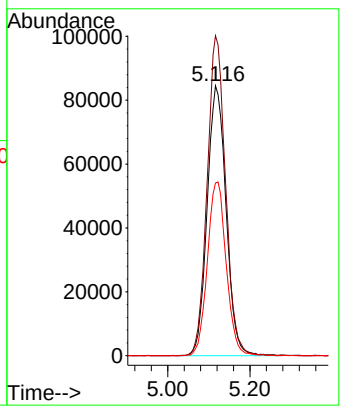




#21
trans-1,2-Dichloroethene
Concen: 50.440 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

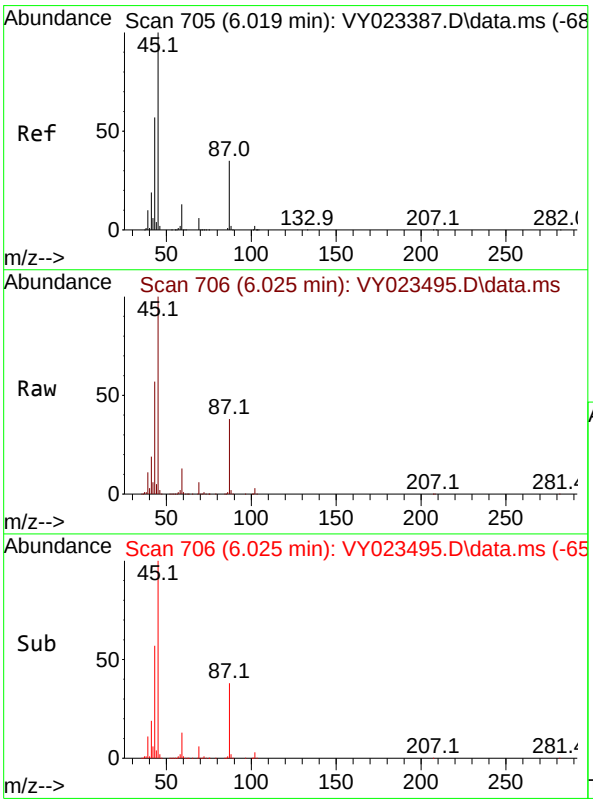
Tgt Ion: 96 Resp: 27003

Ion	Ratio	Lower	Upper
96	100		
61	118.6	92.7	139.1
98	63.9	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

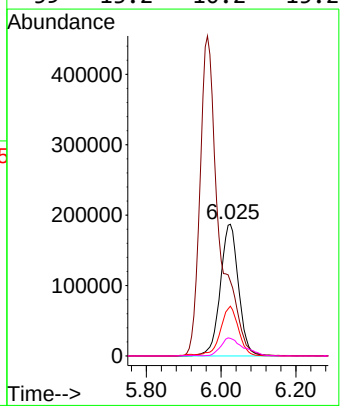
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

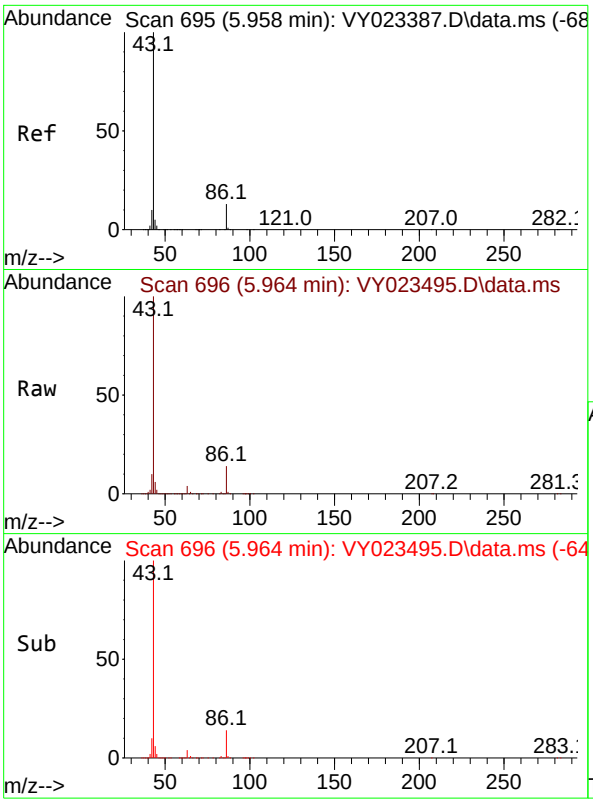


#22
Diisopropyl ether
Concen: 48.233 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 45 Resp: 632267

Ion	Ratio	Lower	Upper
45	100		
43	56.7	45.6	68.4
87	37.6	28.1	42.1
59	13.2	10.2	15.2

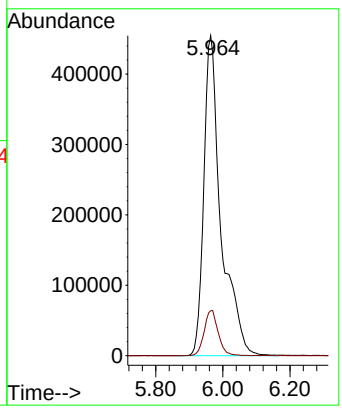




#23
Vinyl Acetate
Concen: 227.456 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

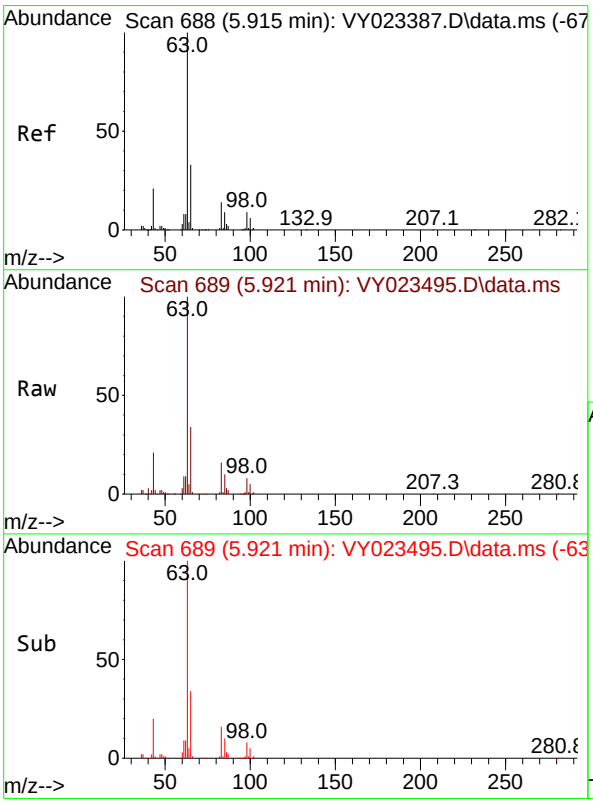
Tgt Ion: 43 Resp: 161387

Ion	Ratio	Lower	Upper
43	100		
86	14.1	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

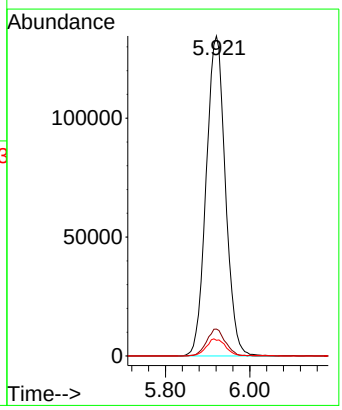
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

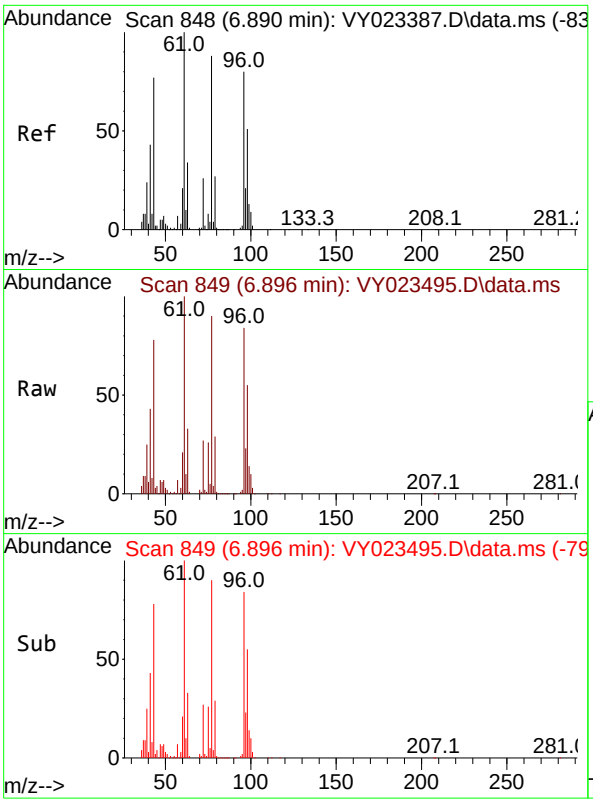


#24
1,1-Dichloroethane
Concen: 49.020 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 63 Resp: 425651

Ion	Ratio	Lower	Upper
63	100		
98	8.4	4.3	13.1
100	4.9	2.8	8.4

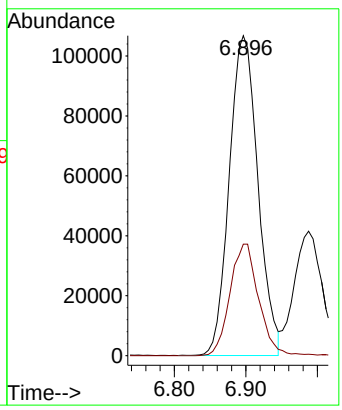




#25
2-Butanone
Concen: 224.649 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 43 Resp: 29762

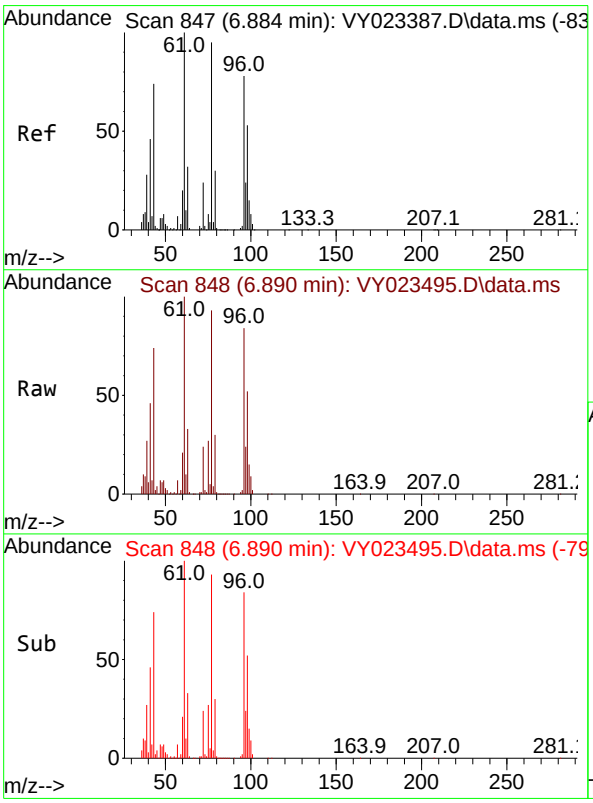
Ion	Ratio	Lower	Upper
43	100		
72	34.9	27.4	41.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

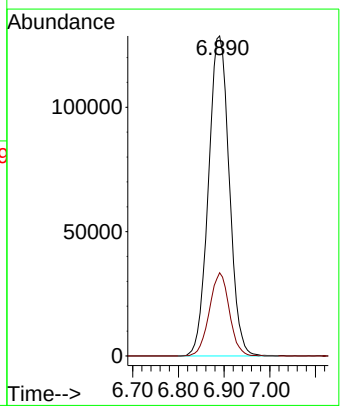
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

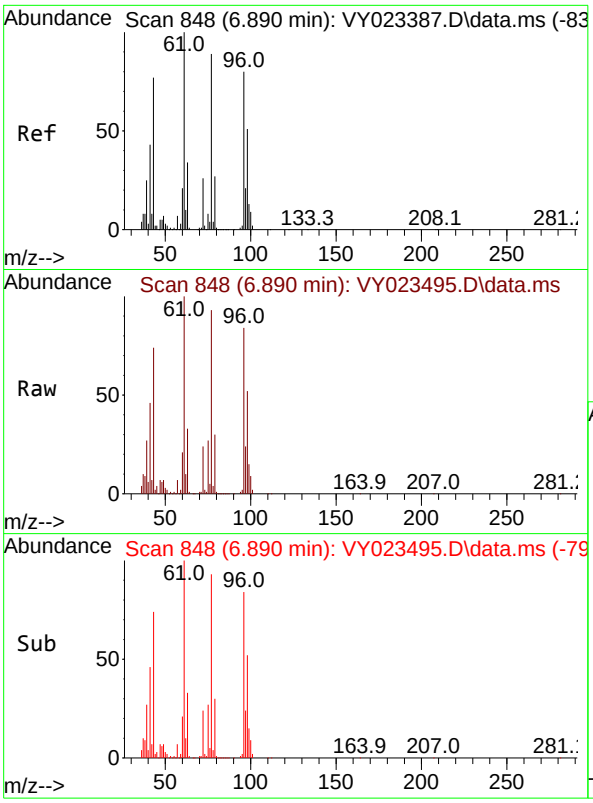


#26
2,2-Dichloropropane
Concen: 50.981 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 77 Resp: 406197

Ion	Ratio	Lower	Upper
77	100		
97	25.0	12.1	36.3





#27
cis-1,2-Dichloroethene
Concen: 51.768 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

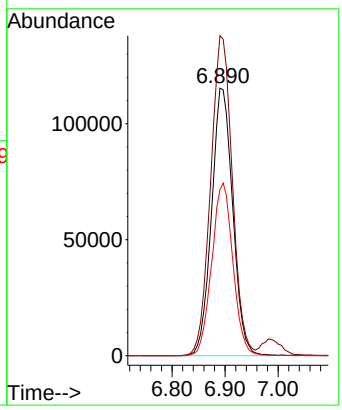
Tgt Ion: 96 Resp: 32013

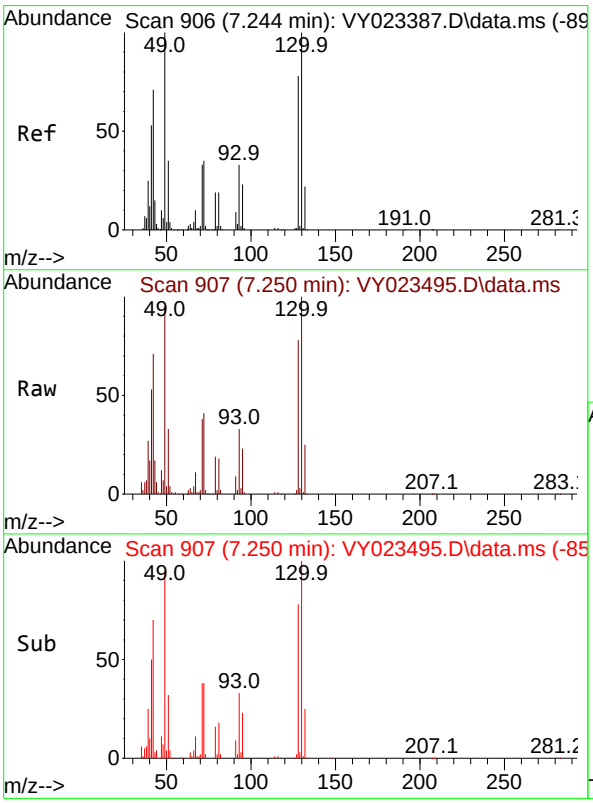
Ion	Ratio	Lower	Upper
96	100		
61	122.4	0.0	258.2
98	64.4	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

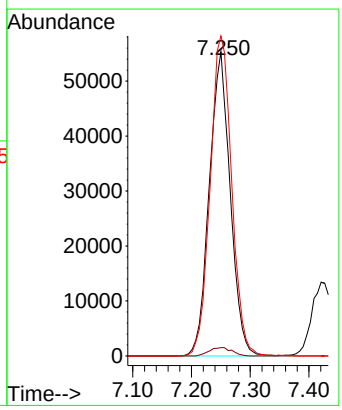


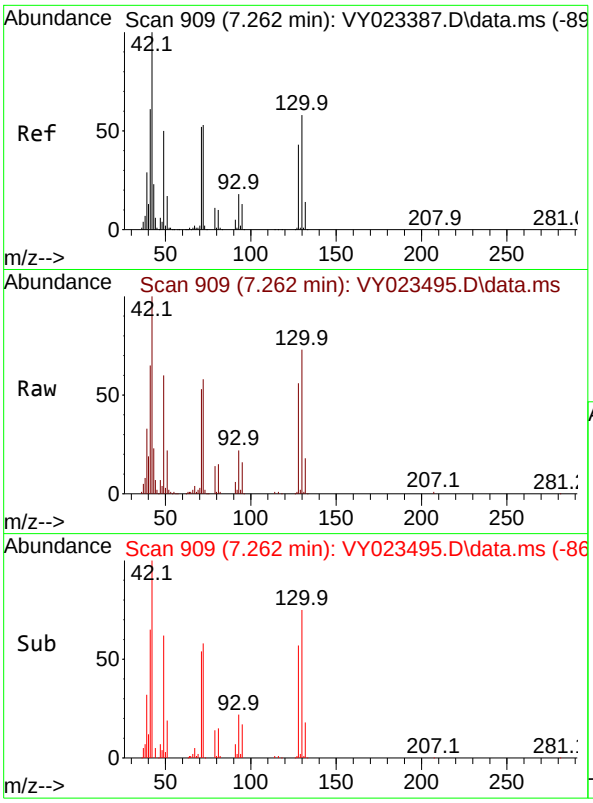


#28
Bromochloromethane
Concen: 42.199 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 49 Resp: 136791

Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	5.6
130	108.1	81.9	122.9

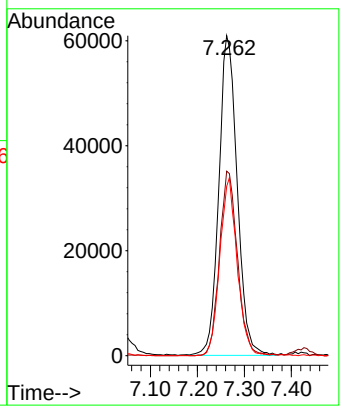




#29
Tetrahydrofuran
Concen: 220.392 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 42 Resp: 16557(

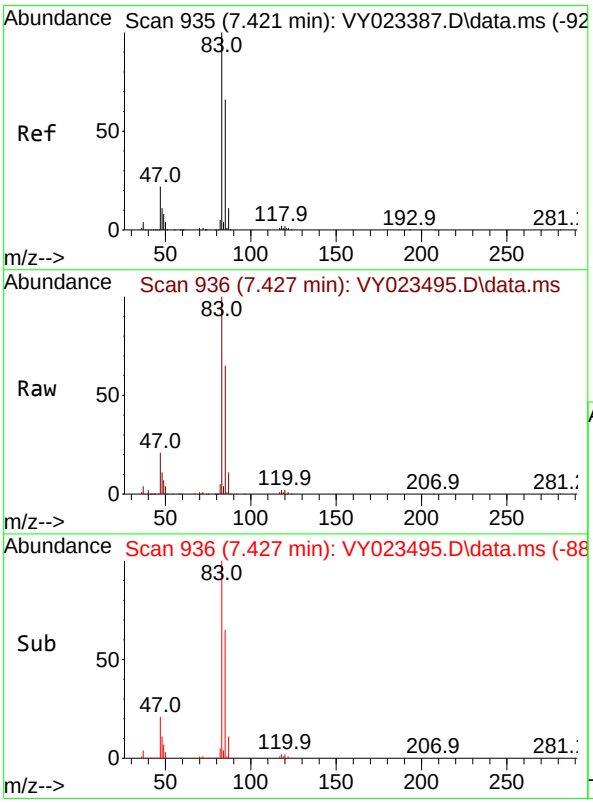
Ion	Ratio	Lower	Upper
42	100		
72	56.5	43.0	64.6
71	52.8	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

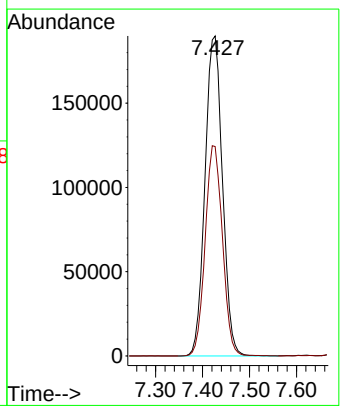
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

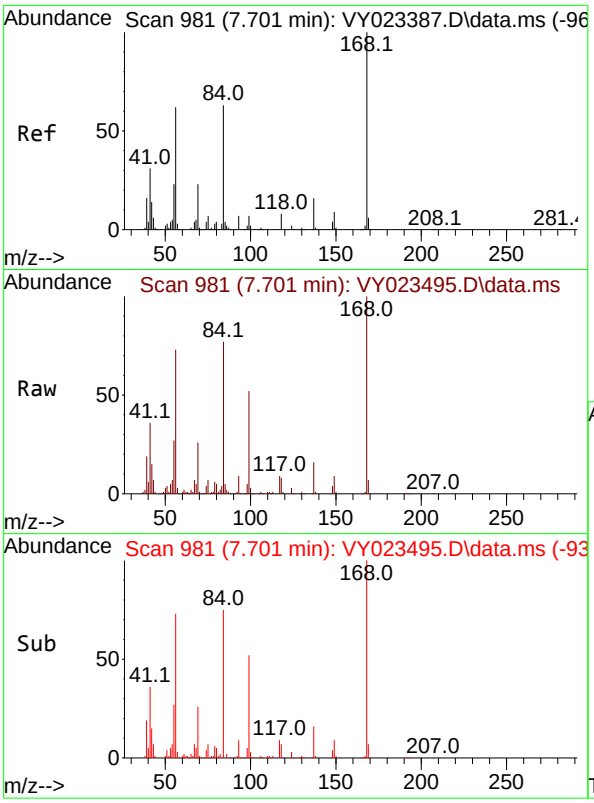


#30
Chloroform
Concen: 51.246 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 83 Resp: 488891

Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.5	78.7

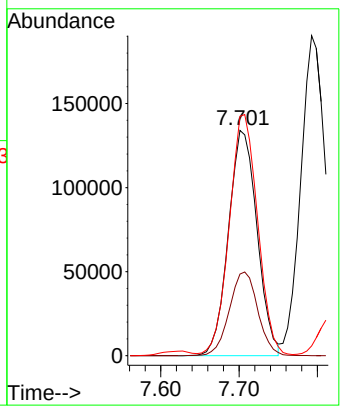




#31
Cyclohexane
Concen: 44.939 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 56 Resp: 34077

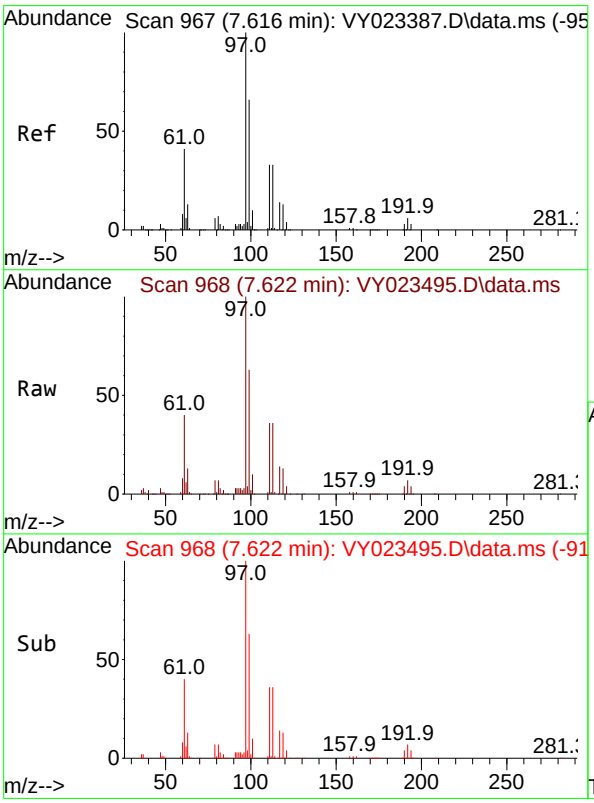
Ion	Ratio	Lower	Upper
56	100		
69	36.2	30.0	45.0
84	104.3	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

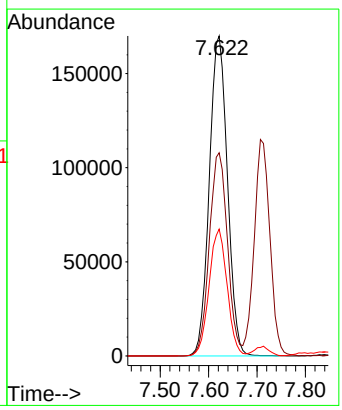
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

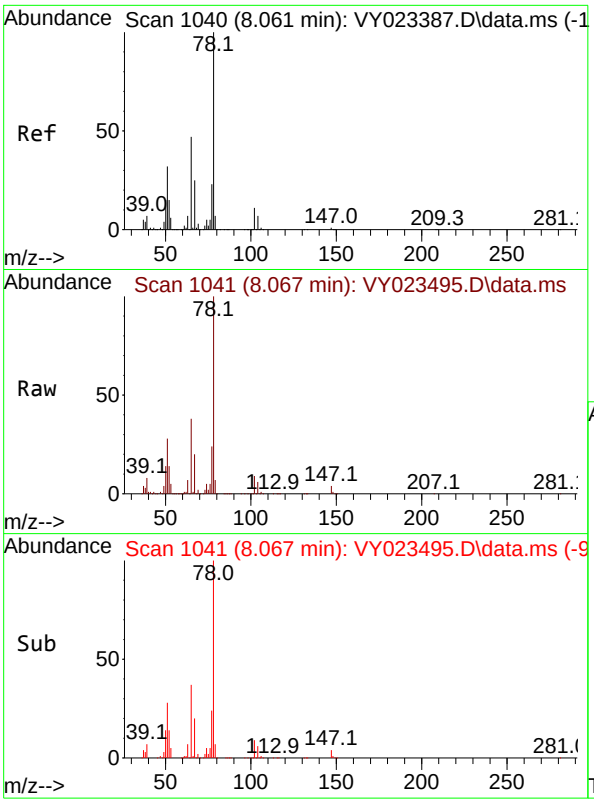


#32
1,1,1-Trichloroethane
Concen: 51.062 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 97 Resp: 442692

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.4	77.2
61	39.5	31.9	47.9

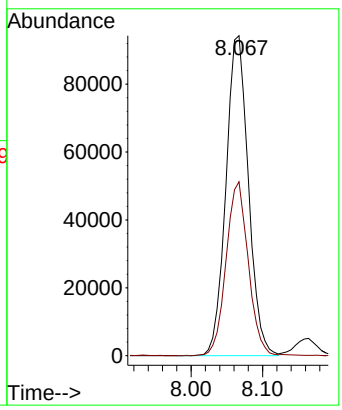




#33
1,2-Dichloroethane-d4
Concen: 45.129 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 65 Resp: 20571

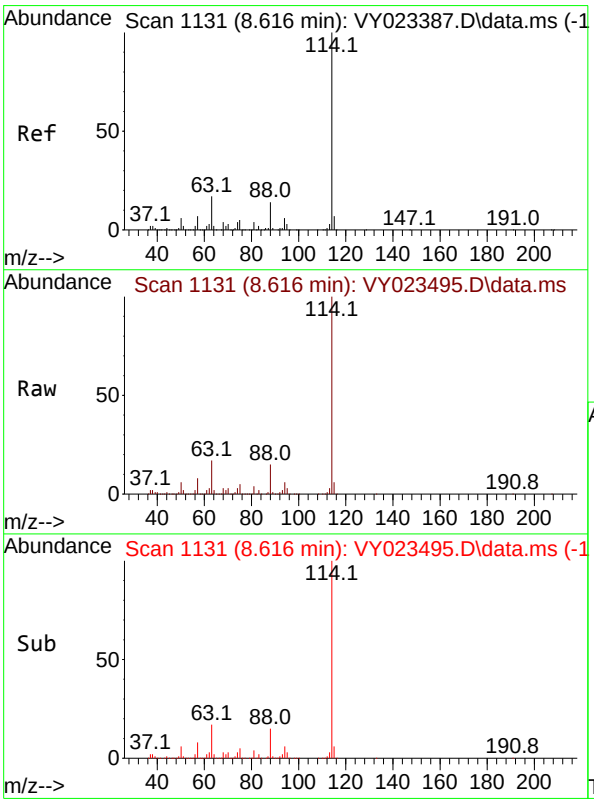
Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

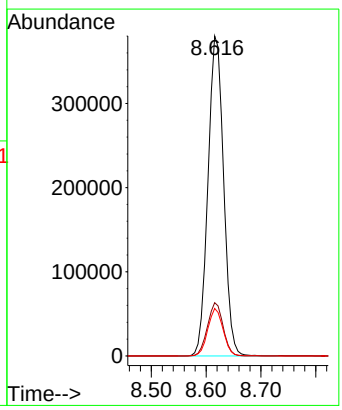
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

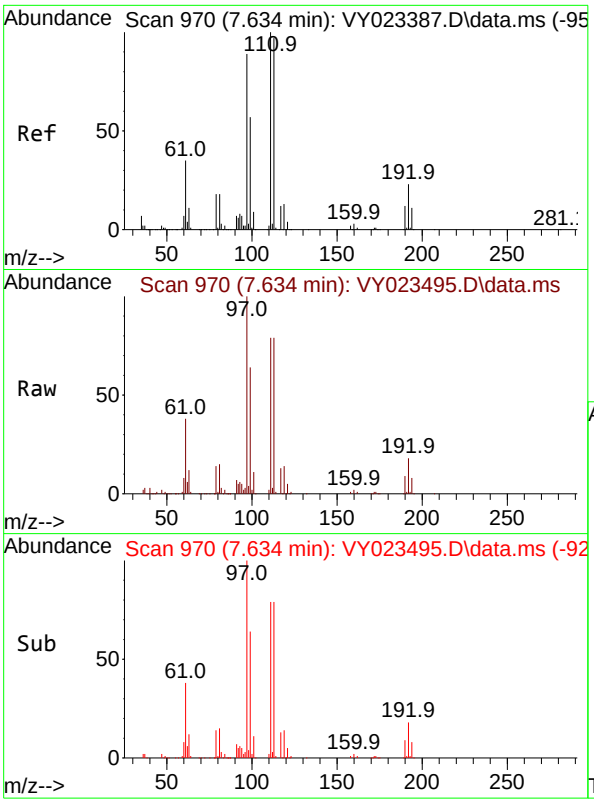


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:114 Resp: 751162

Ion	Ratio	Lower	Upper
114	100		
63	16.7	0.0	34.2
88	14.9	0.0	28.4

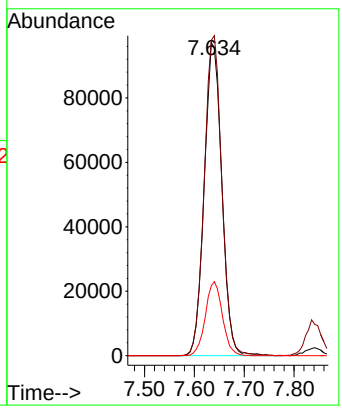




#35
Dibromofluoromethane
Concen: 51.463 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:113 Resp: 23752

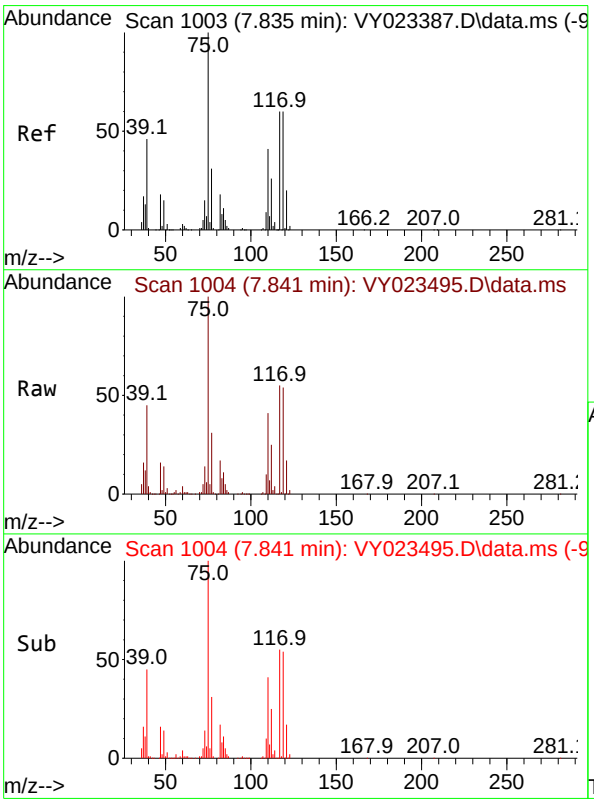
Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.8	122.6
192	23.1	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

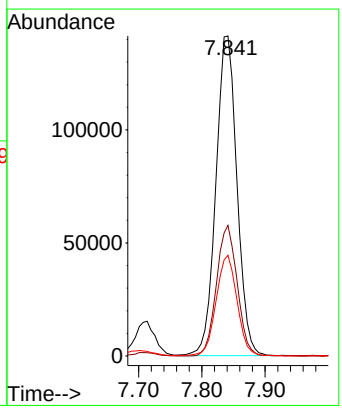
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

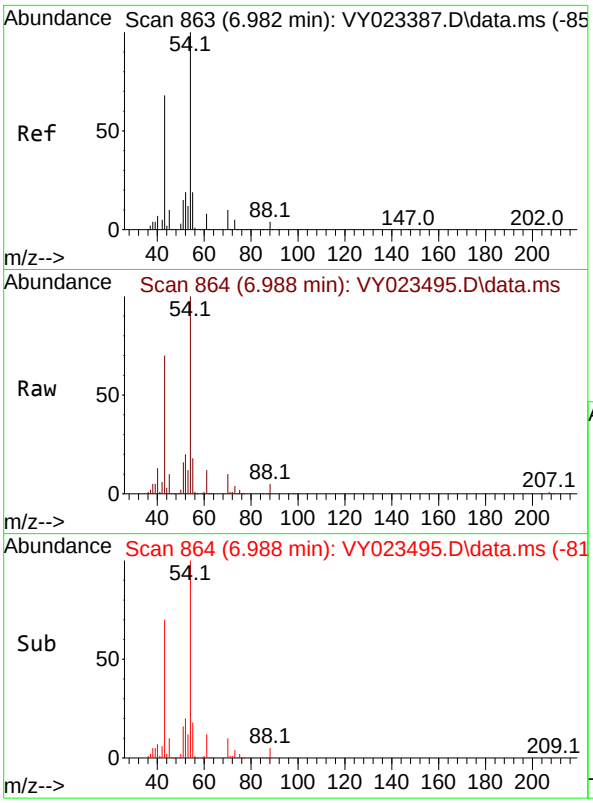


#36
1,1-Dichloropropene
Concen: 53.565 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 75 Resp: 327309

Ion	Ratio	Lower	Upper
75	100		
110	40.2	19.9	59.7
77	31.2	25.0	37.6





#37
Ethyl Acetate
Concen: 48.487 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

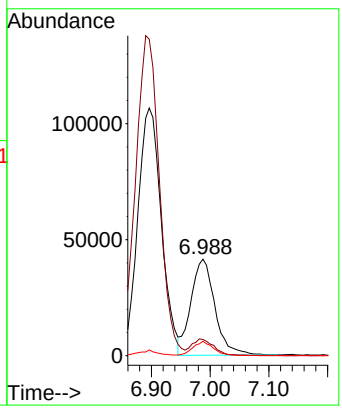
Tgt Ion: 43 Resp: 11737

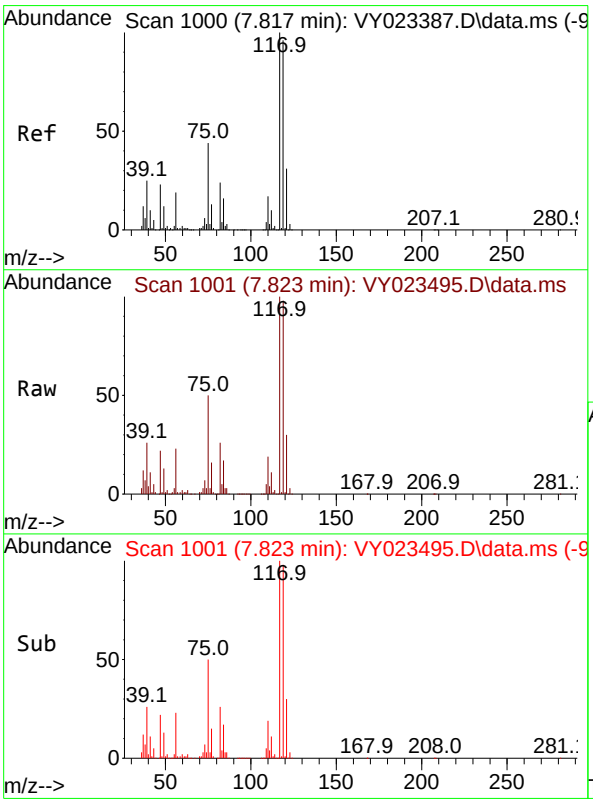
Ion	Ratio	Lower	Upper
43	100		
61	15.6	11.8	17.8
70	12.6	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

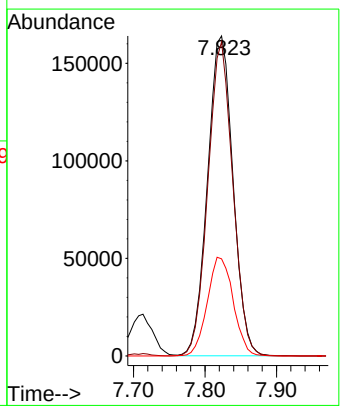


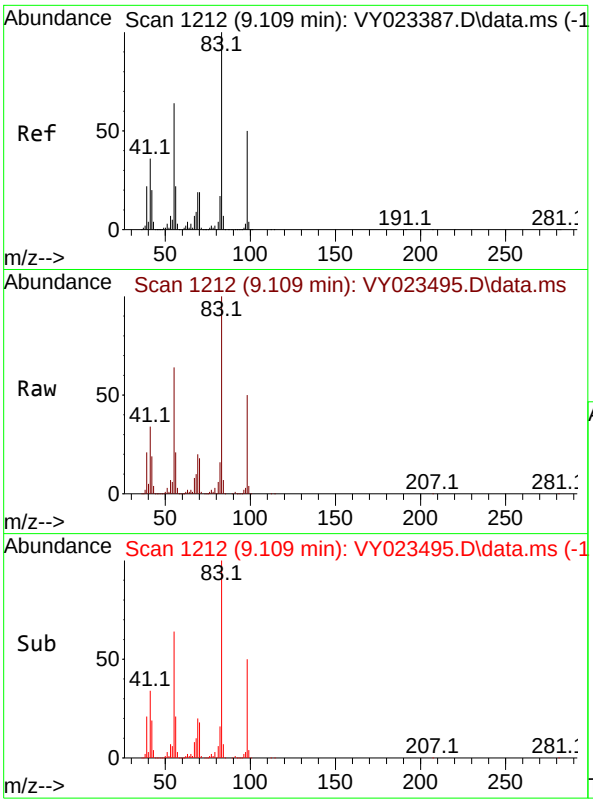


#38
Carbon Tetrachloride
Concen: 54.836 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:117 Resp: 406294

Ion	Ratio	Lower	Upper
117	100		
119	98.1	76.8	115.2
121	30.4	24.5	36.7

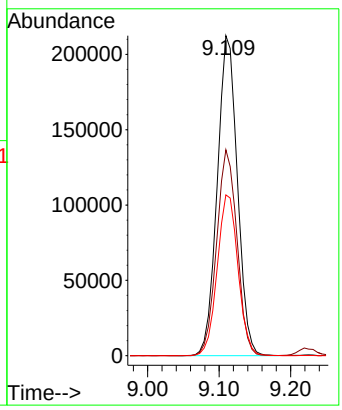




#39
Methylcyclohexane
Concen: 52.219 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 83 Resp: 41545

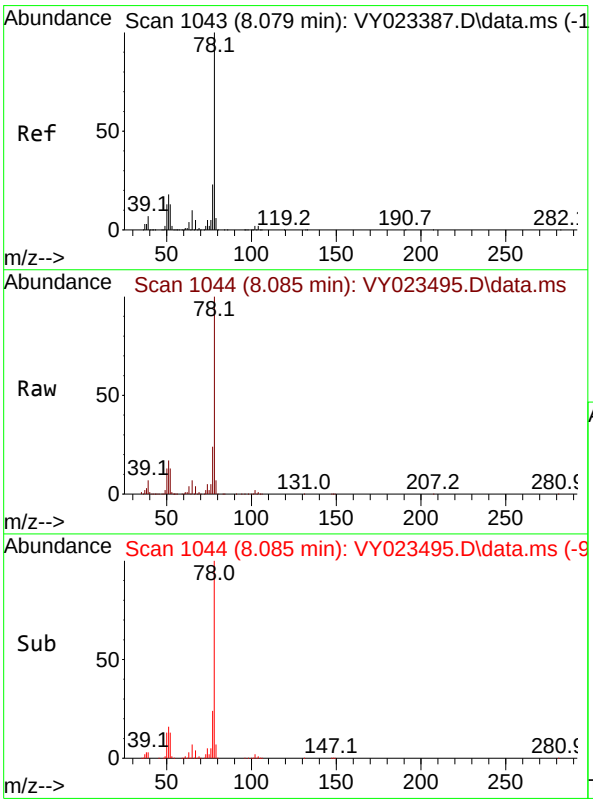
Ion	Ratio	Lower	Upper
83	100		
55	64.4	51.4	77.2
98	50.2	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

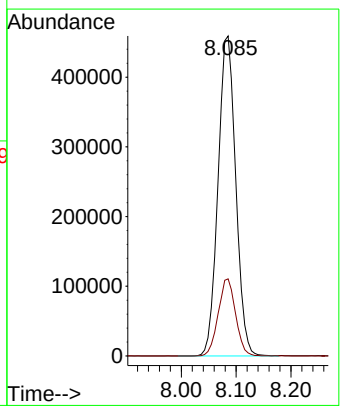
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

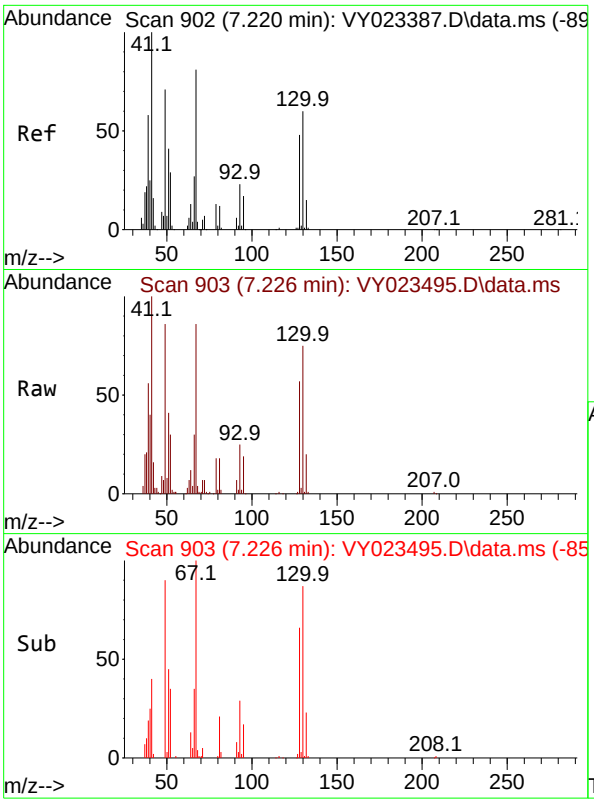


#40
Benzene
Concen: 53.325 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 78 Resp: 1031919

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.3	27.5

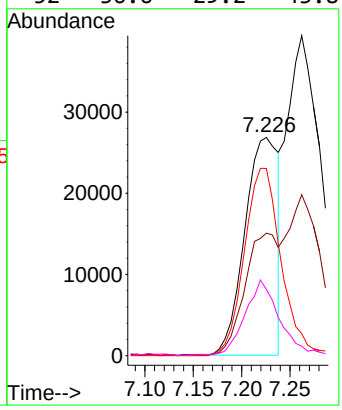




#41
Methacrylonitrile
Concen: 49.293 ug/l
RT: 7.226 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

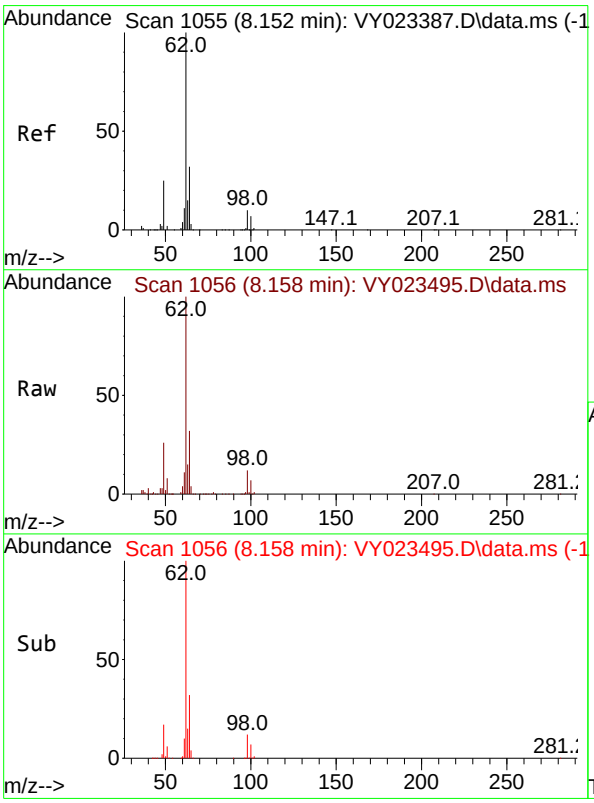
Tgt Ion: 41 Resp: 6453

Ion	Ratio	Lower	Upper
41	100		
39	55.7	52.2	78.4
67	94.8	74.9	112.3
52	36.6	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

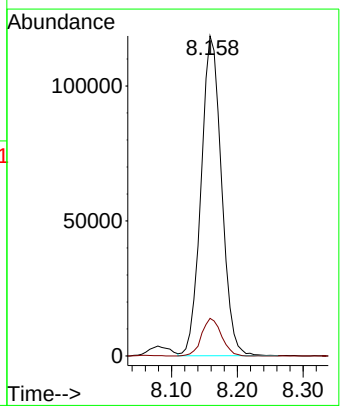
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

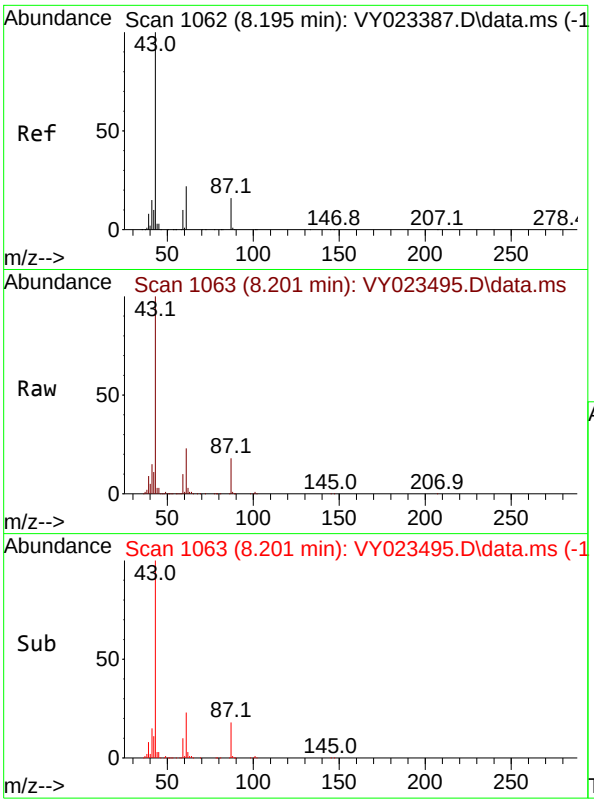


#42
1,2-Dichloroethane
Concen: 51.321 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 62 Resp: 256130

Ion	Ratio	Lower	Upper
62	100		
98	11.4	0.0	21.6





#43
Isopropyl Acetate
Concen: 47.184 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

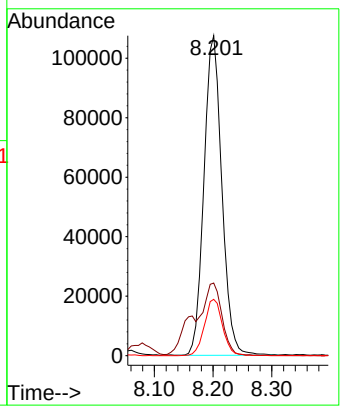
Tgt Ion: 43 Resp: 22776

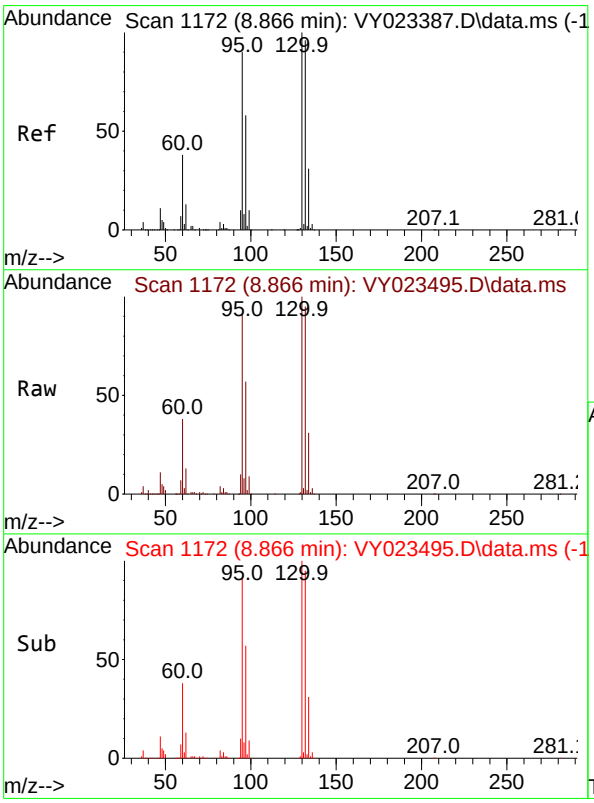
Ion	Ratio	Lower	Upper
43	100		
61	24.2	18.1	27.1
87	17.8	13.5	20.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

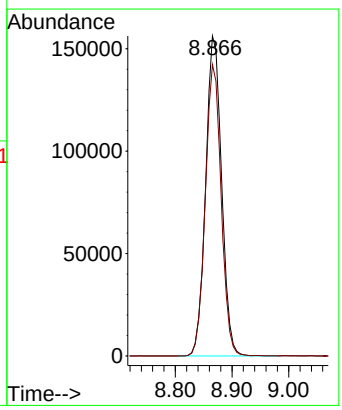


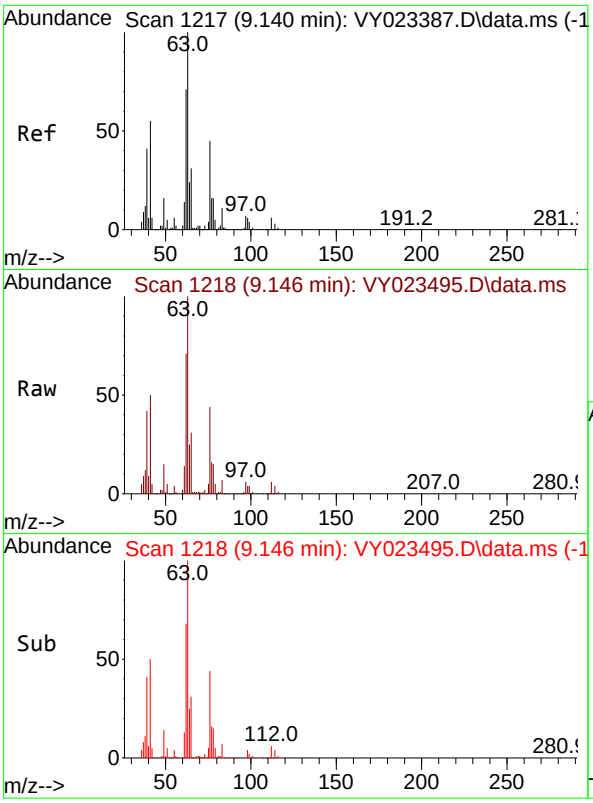


#44
Trichloroethene
Concen: 53.923 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:130 Resp: 305416

Ion	Ratio	Lower	Upper
130	100		
95	91.0	0.0	180.6

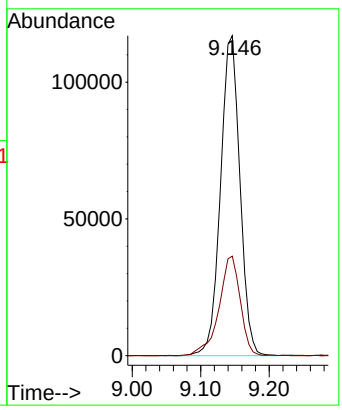




#45
1,2-Dichloropropane
Concen: 53.701 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 63 Resp: 22953

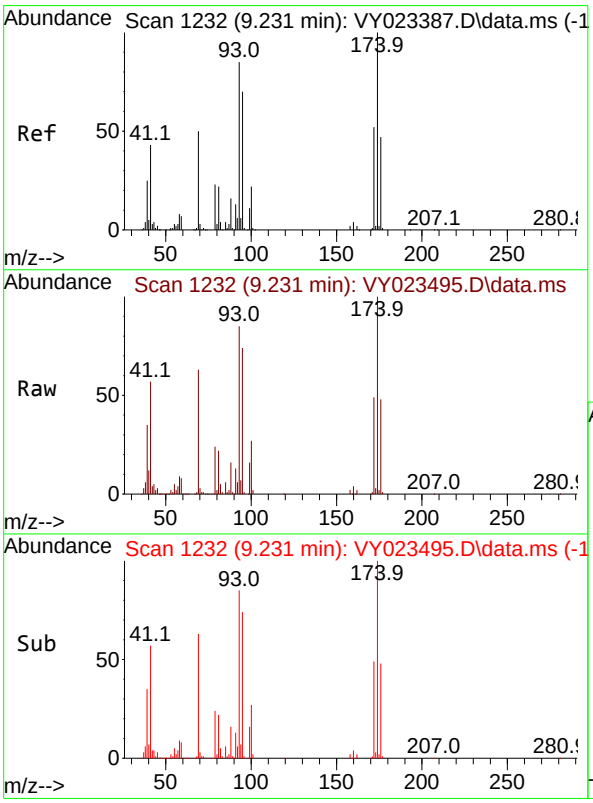
Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

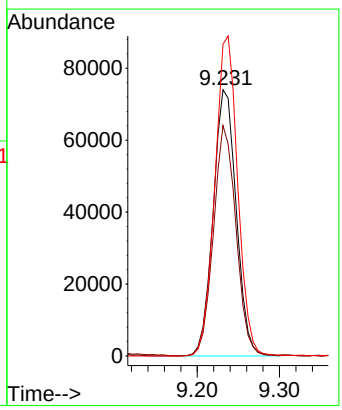
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

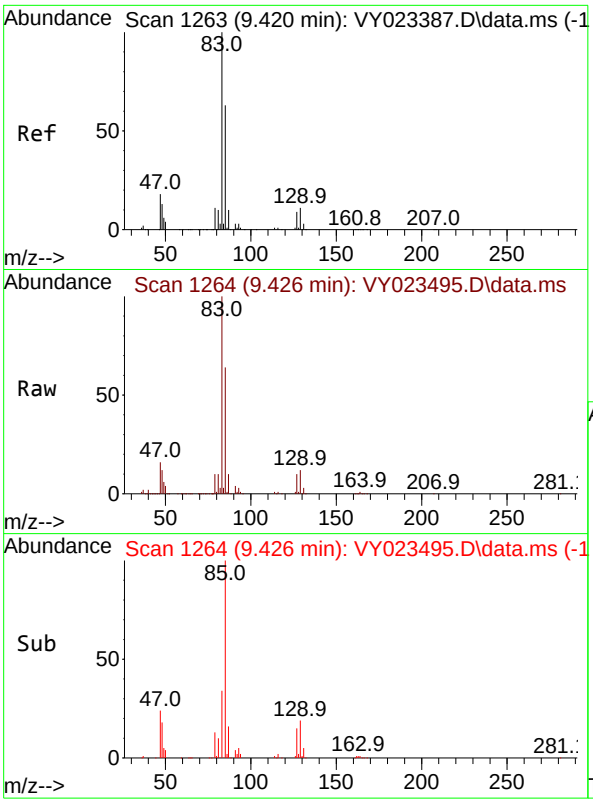


#46
Dibromomethane
Concen: 53.425 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 93 Resp: 144395

Ion	Ratio	Lower	Upper
93	100		
95	84.5	65.4	98.0
174	119.3	92.9	139.3

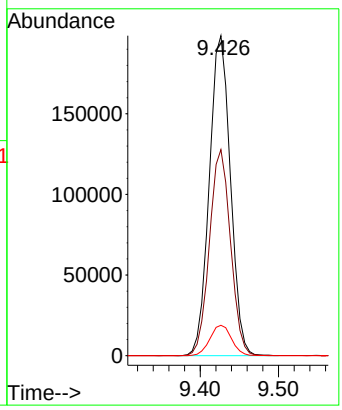




#47
Bromodichloromethane
Concen: 54.605 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

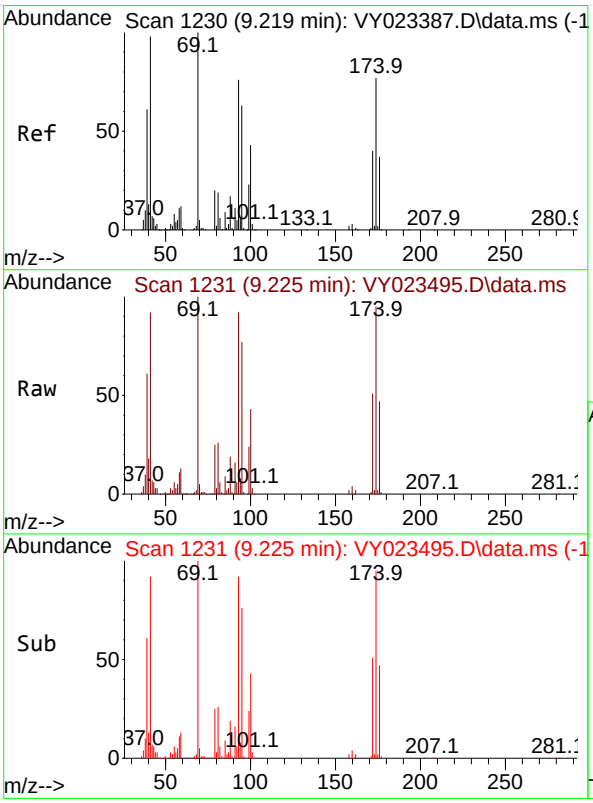
Tgt Ion: 83 Resp: 37169

Ion	Ratio	Lower	Upper
83	100		
85	64.4	50.8	76.2
127	9.5	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

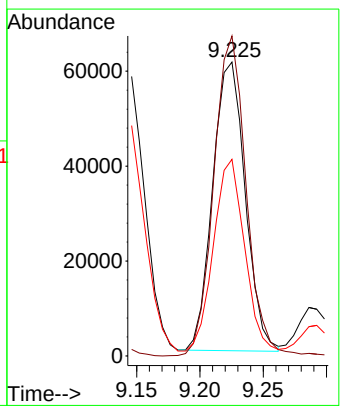
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

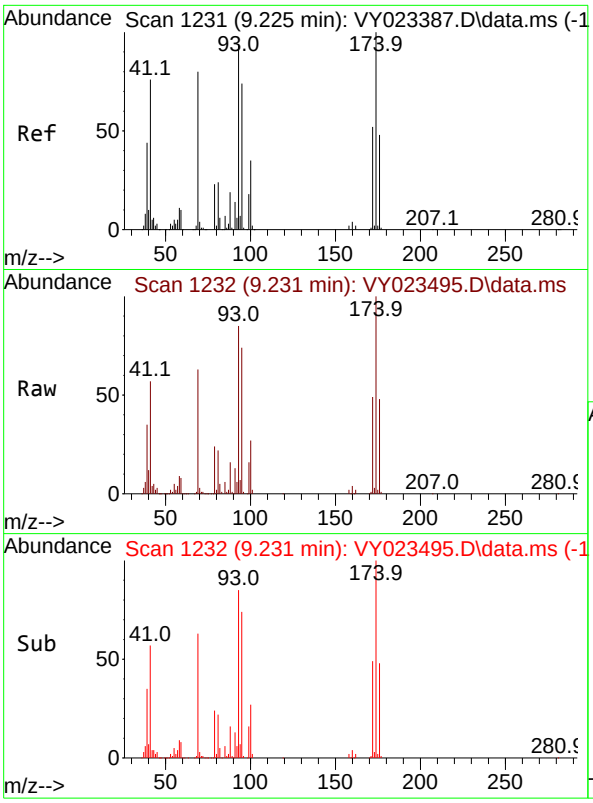


#48
Methyl methacrylate
Concen: 47.982 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 41 Resp: 108810

Ion	Ratio	Lower	Upper
41	100		
69	110.3	81.0	121.4
39	63.6	48.2	72.4





#49
1,4-Dioxane
Concen: 1008.798 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

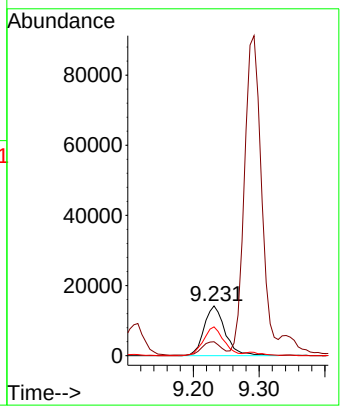
Tgt Ion: 88 Resp: 3161

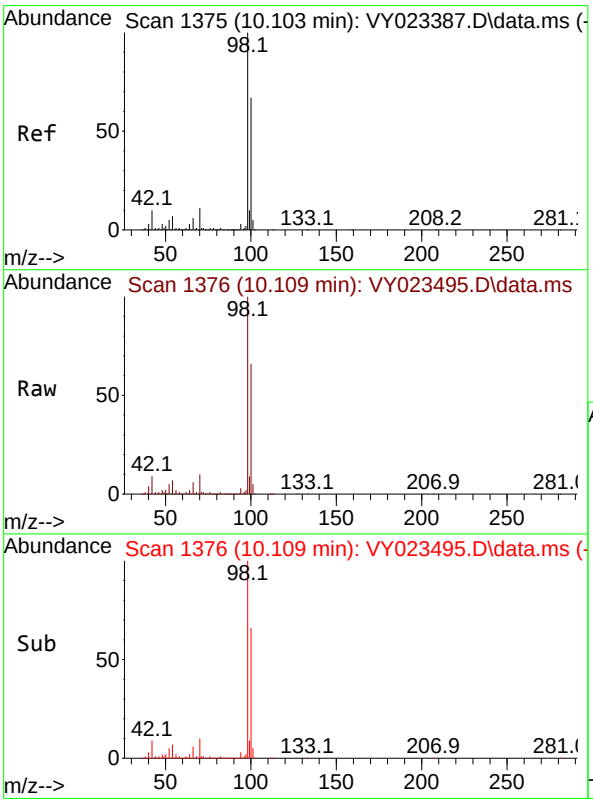
Ion	Ratio	Lower	Upper
88	100		
43	23.6	21.8	32.8
58	56.2	46.8	70.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

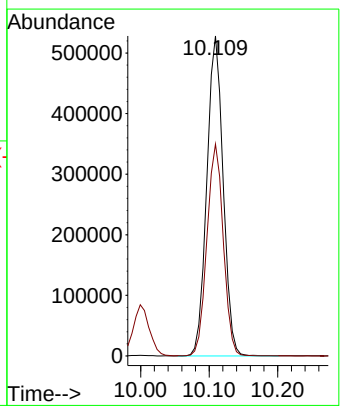


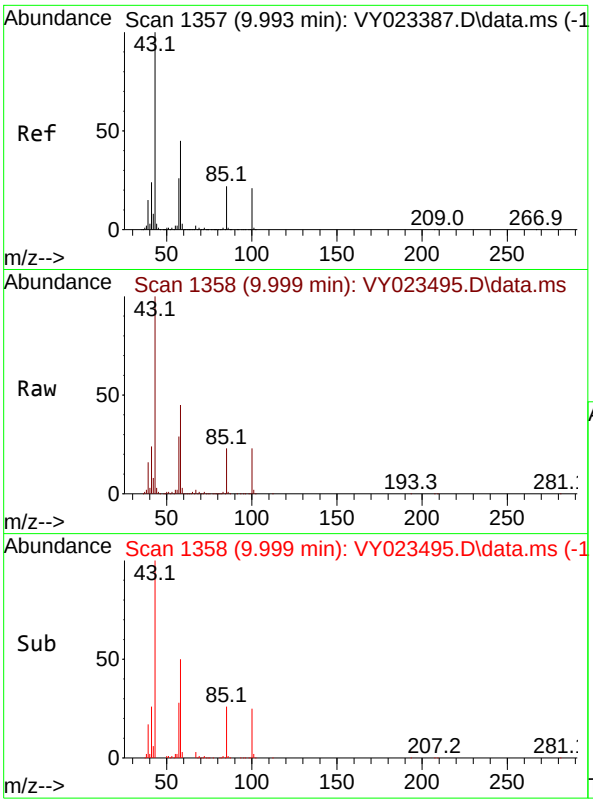


#50
Toluene-d8
Concen: 50.825 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 98 Resp: 873624

Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4

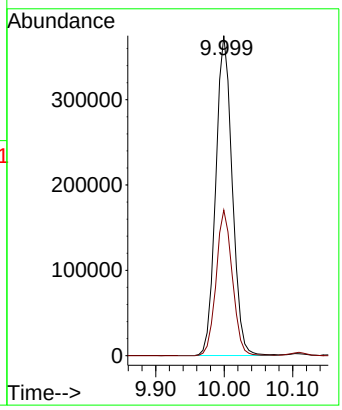




#51
4-Methyl-2-Pentanone
Concen: 250.488 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 43 Resp: 62472

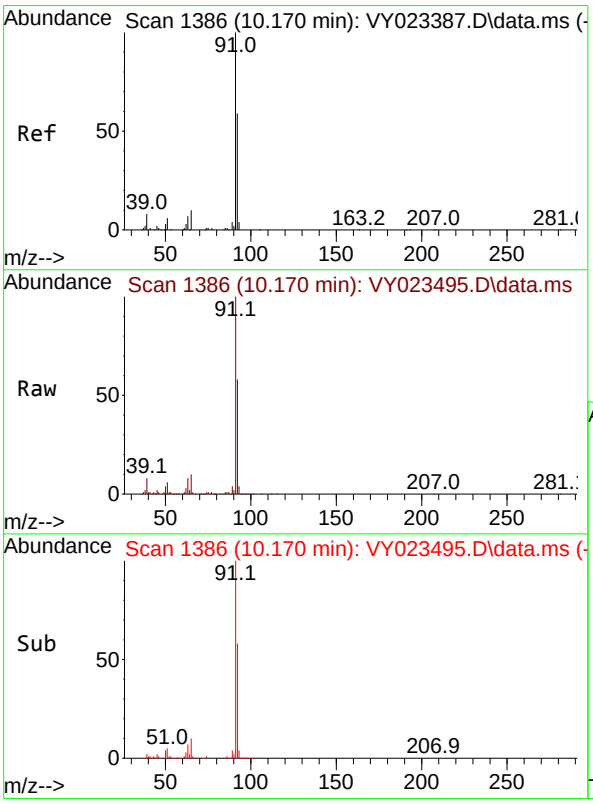
Ion	Ratio	Lower	Upper
43	100		
58	44.8	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

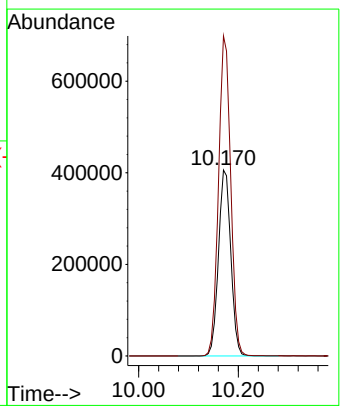
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

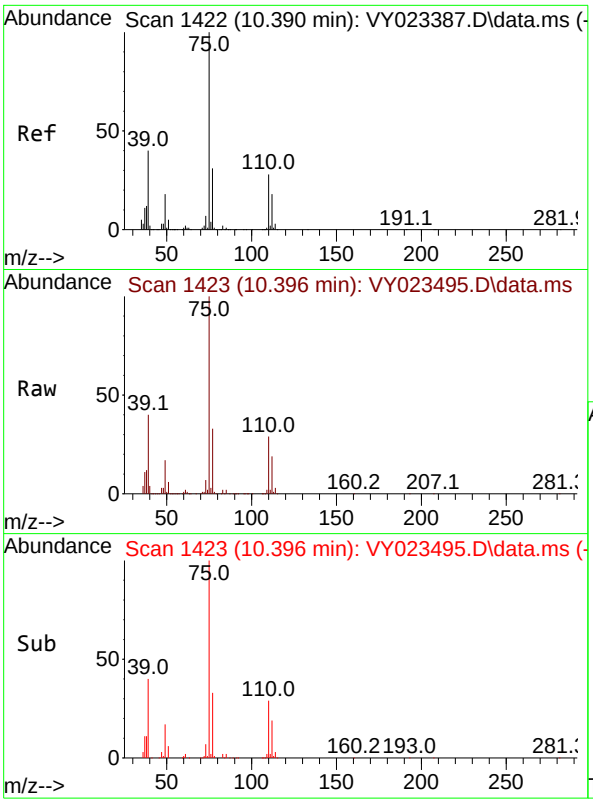


#52
Toluene
Concen: 55.484 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 92 Resp: 697136

Ion	Ratio	Lower	Upper
92	100		
91	169.6	136.4	204.6

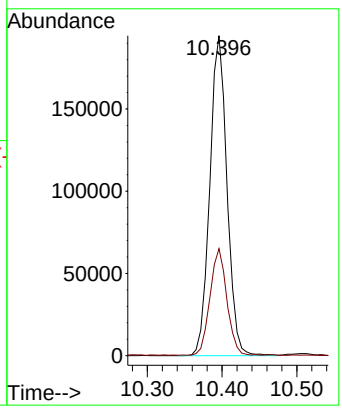




#53
t-1,3-Dichloropropene
Concen: 52.623 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 75 Resp: 31146

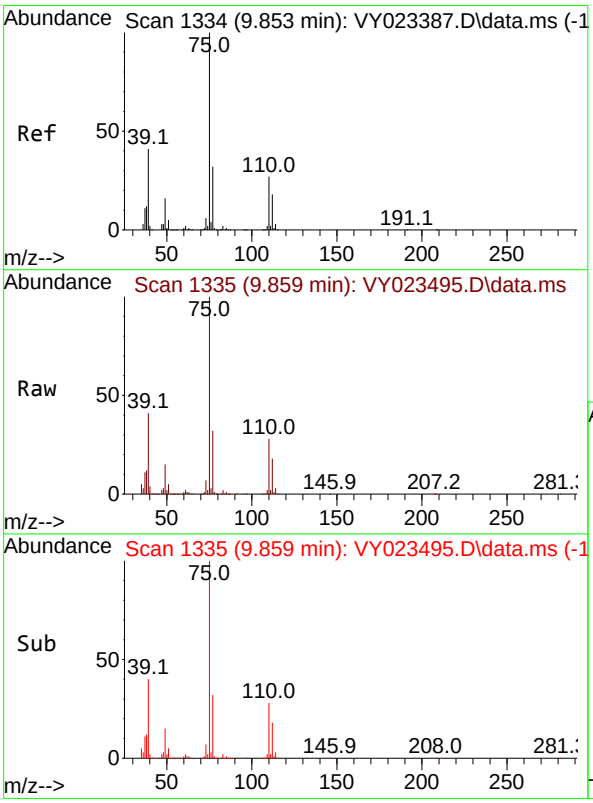
Ion	Ratio	Lower	Upper
75	100		
77	33.3	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

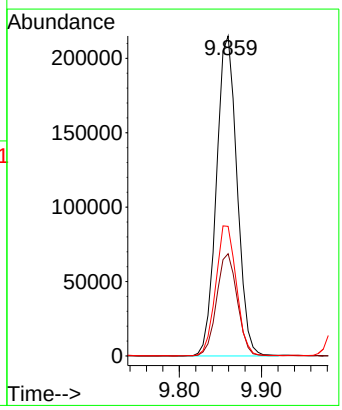
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

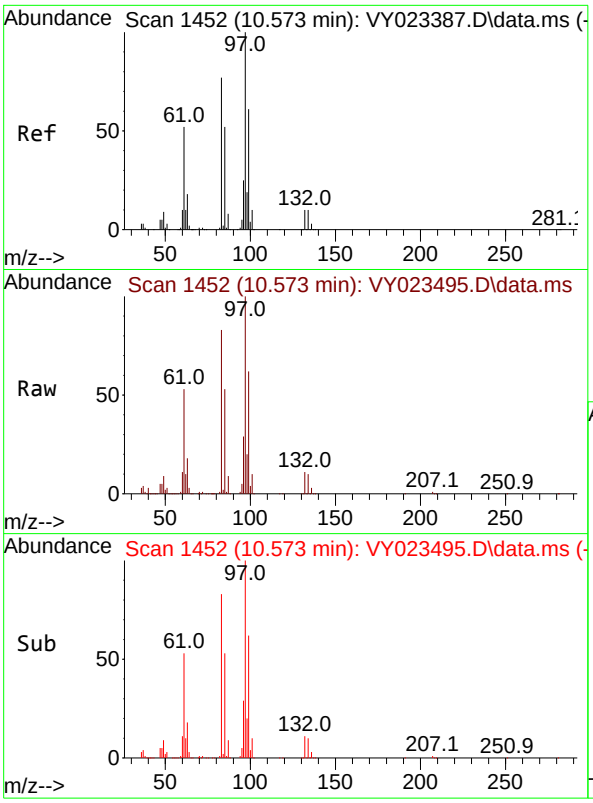


#54
cis-1,3-Dichloropropene
Concen: 53.527 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 75 Resp: 373914

Ion	Ratio	Lower	Upper
75	100		
77	32.0	25.4	38.0
39	40.4	32.8	49.2

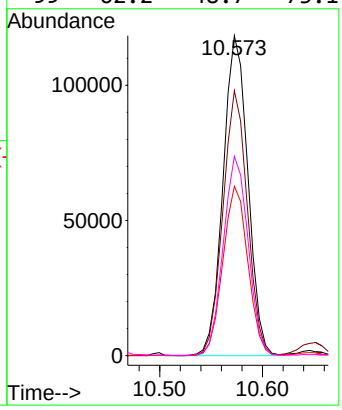




#55
1,1,2-Trichloroethane
Concen: 54.709 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 97 Resp: 19883

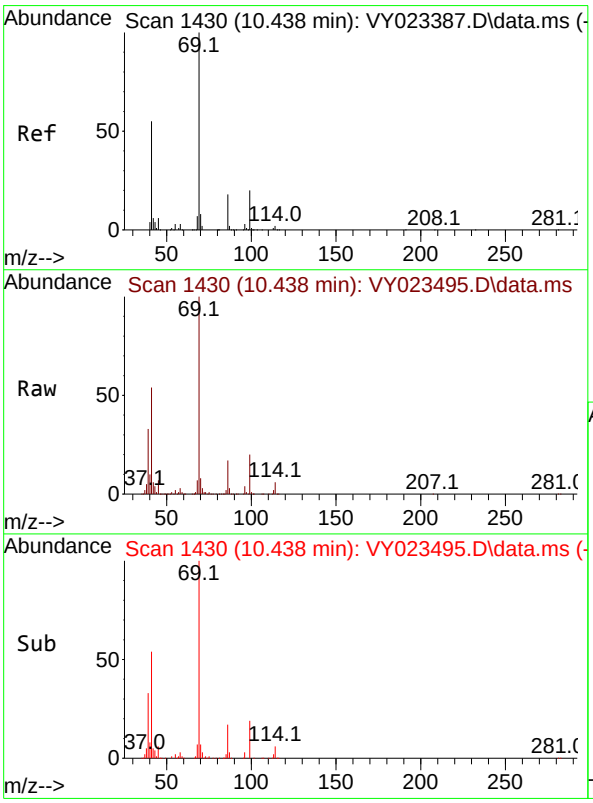
Ion	Ratio	Lower	Upper
97	100		
83	82.8	61.8	92.6
85	52.9	41.3	61.9
99	62.2	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

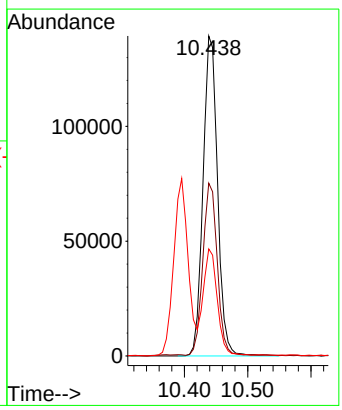
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

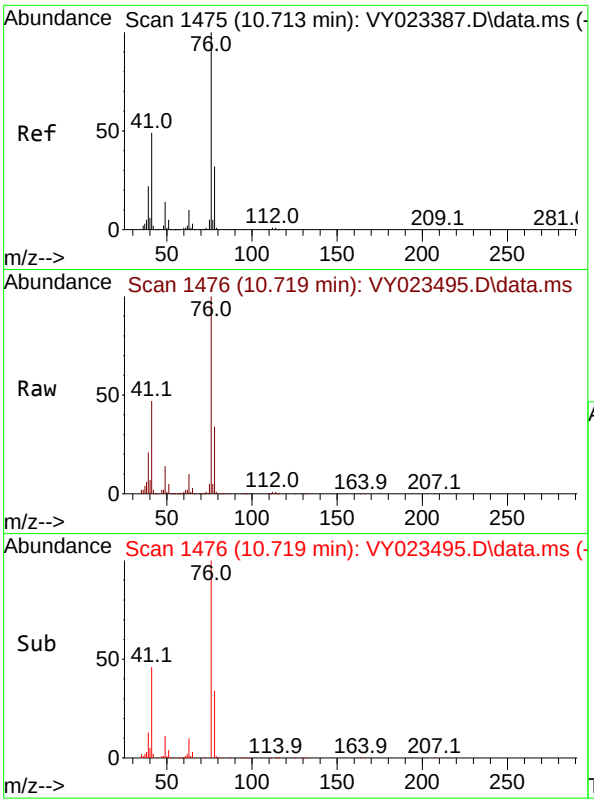


#56
Ethyl methacrylate
Concen: 53.185 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 69 Resp: 222978

Ion	Ratio	Lower	Upper
69	100		
41	53.4	44.6	67.0
39	31.8	27.0	40.4





#57
1,3-Dichloropropane
Concen: 53.368 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

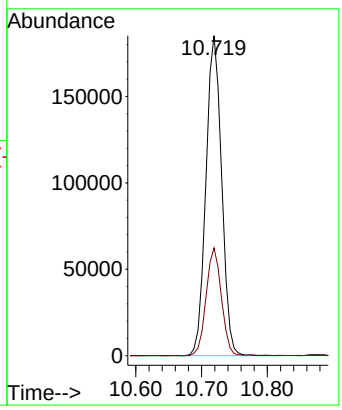
Tgt Ion: 76 Resp: 30736

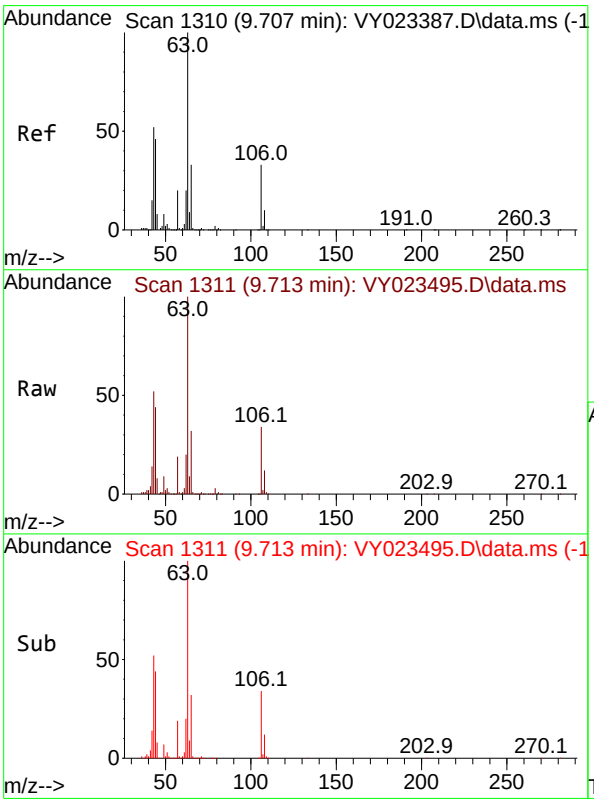
Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.9	38.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

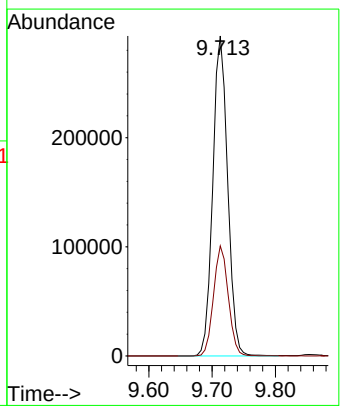


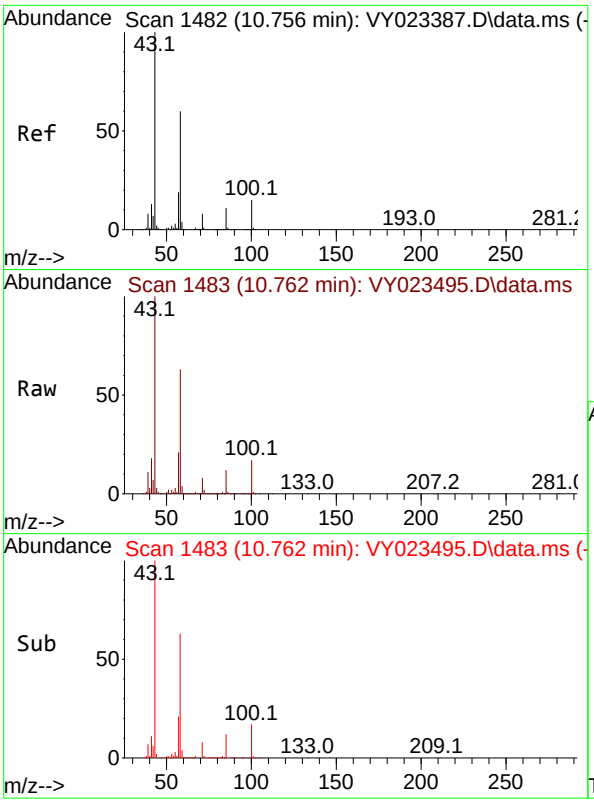


#58
2-Chloroethyl Vinyl ether
Concen: 254.520 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 63 Resp: 478017

Ion	Ratio	Lower	Upper
63	100		
106	34.0	26.6	39.8

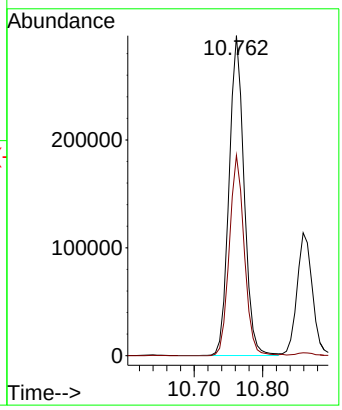




#59
2-Hexanone
Concen: 252.586 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 43 Resp: 45019

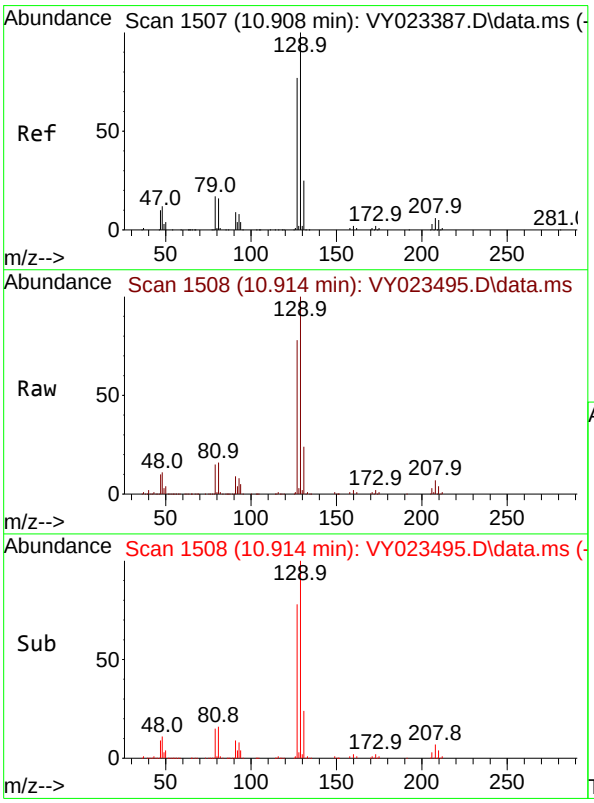
Ion	Ratio	Lower	Upper
43	100		
58	62.5	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

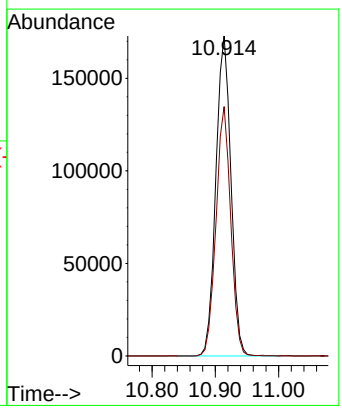
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

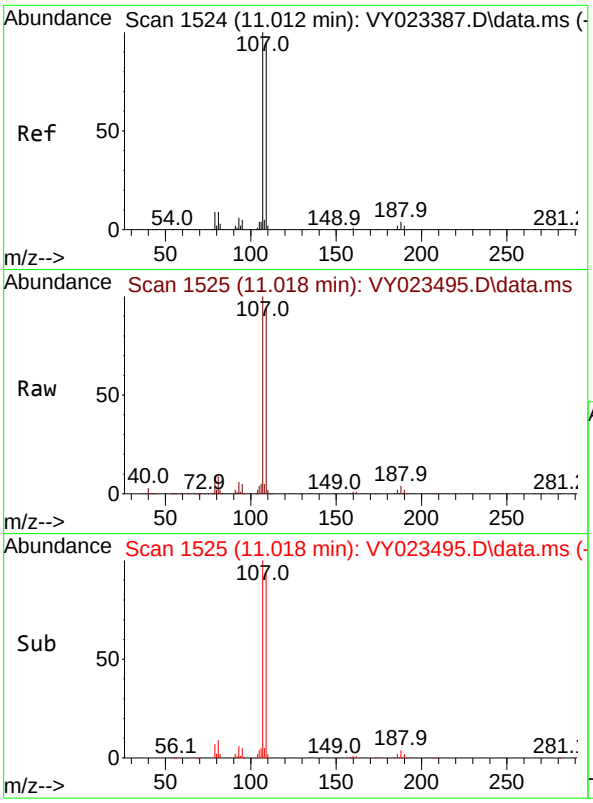


#60
Dibromochloromethane
Concen: 56.001 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:129 Resp: 285363

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.6	115.7

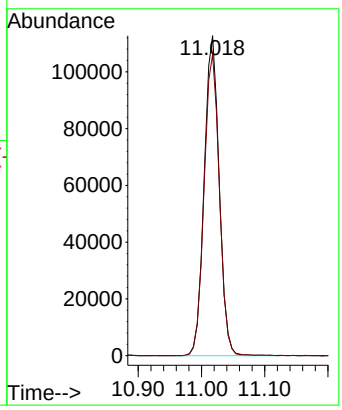




#61
1,2-Dibromoethane
Concen: 53.534 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:107 Resp: 18556

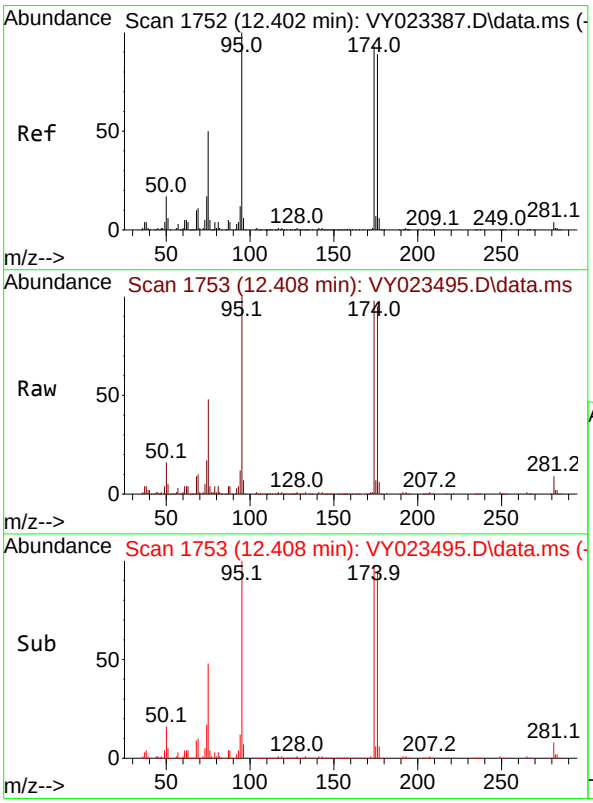
Ion	Ratio	Lower	Upper
107	100		
109	96.2	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

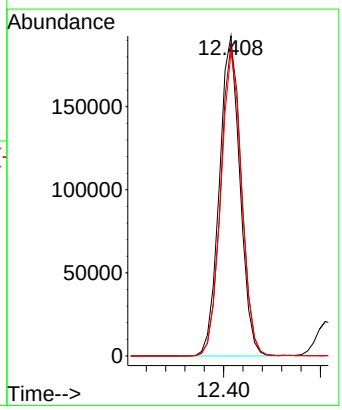
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

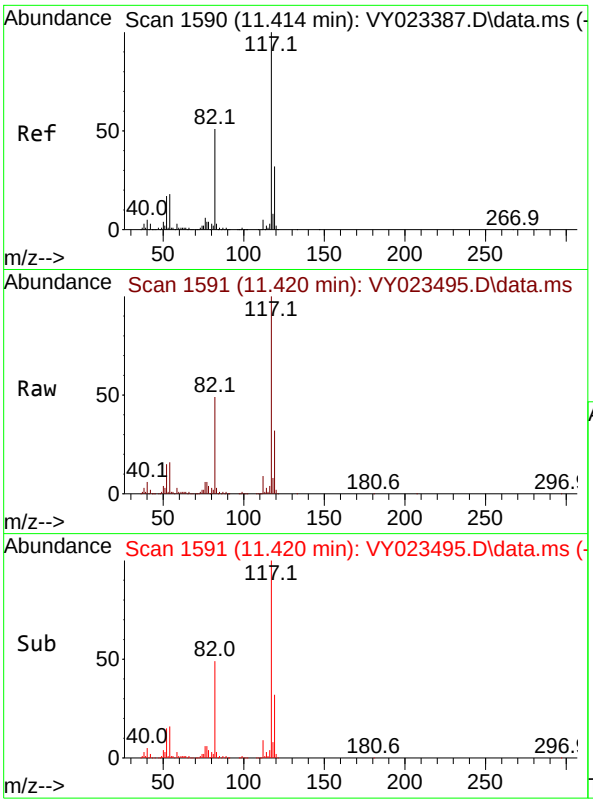


#62
4-Bromofluorobenzene
Concen: 50.104 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 95 Resp: 284330

Ion	Ratio	Lower	Upper
95	100		
174	98.6	0.0	192.8
176	95.7	0.0	187.6

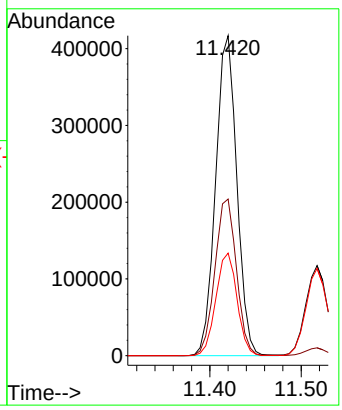




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:117 Resp: 67205

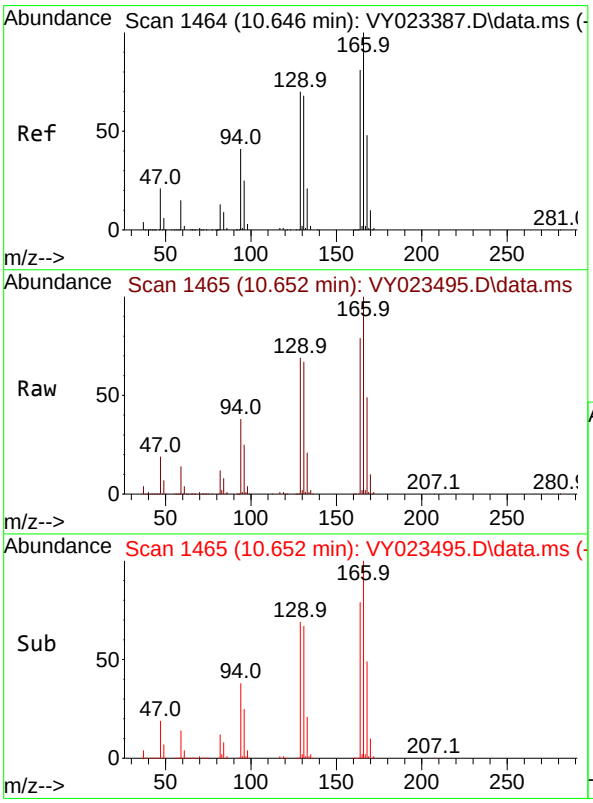
Ion	Ratio	Lower	Upper
117	100		
82	48.9	41.0	61.4
119	32.0	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

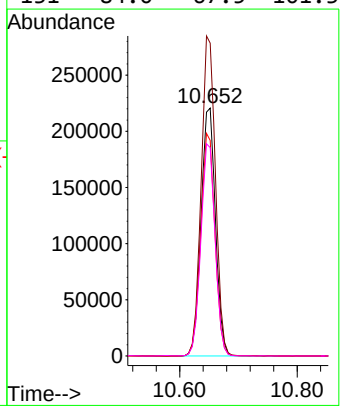
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

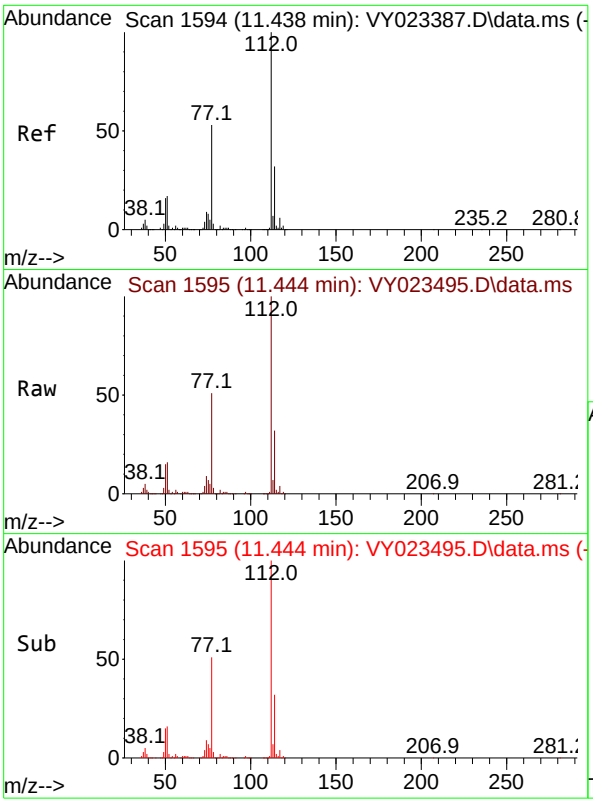


#64
Tetrachloroethene
Concen: 54.195 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:164 Resp: 376068

Ion	Ratio	Lower	Upper
164	100		
166	126.3	99.4	149.0
129	86.9	69.4	104.2
131	84.0	67.5	101.3

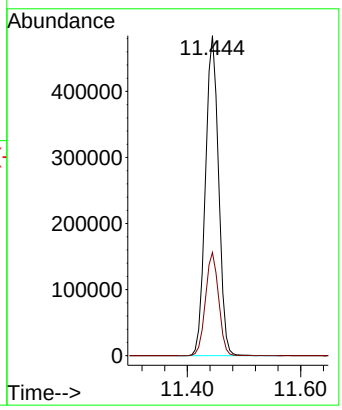




#65
Chlorobenzene
Concen: 53.290 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:112 Resp: 77893

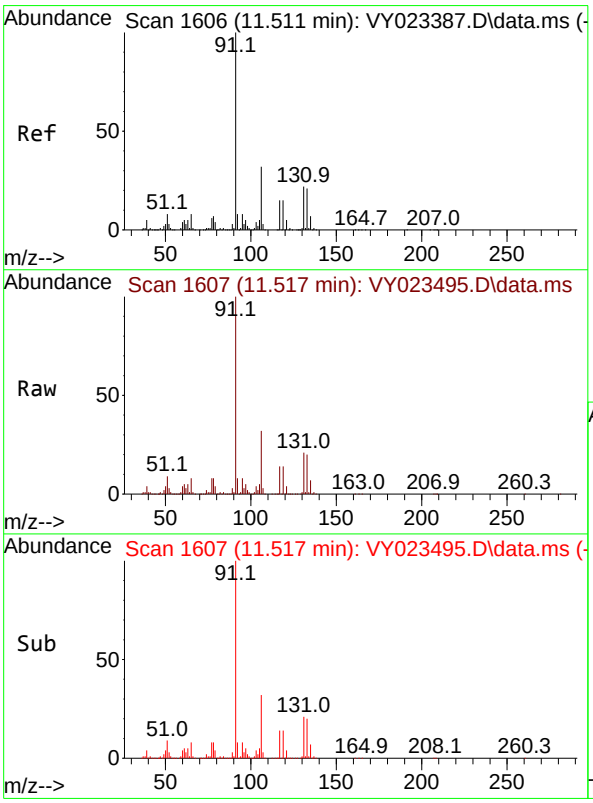
Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

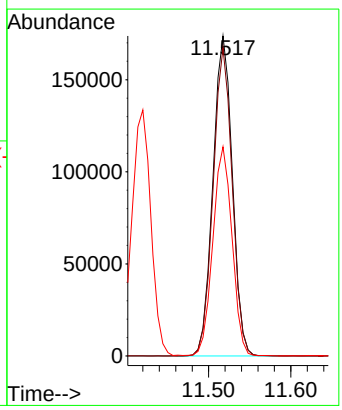
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

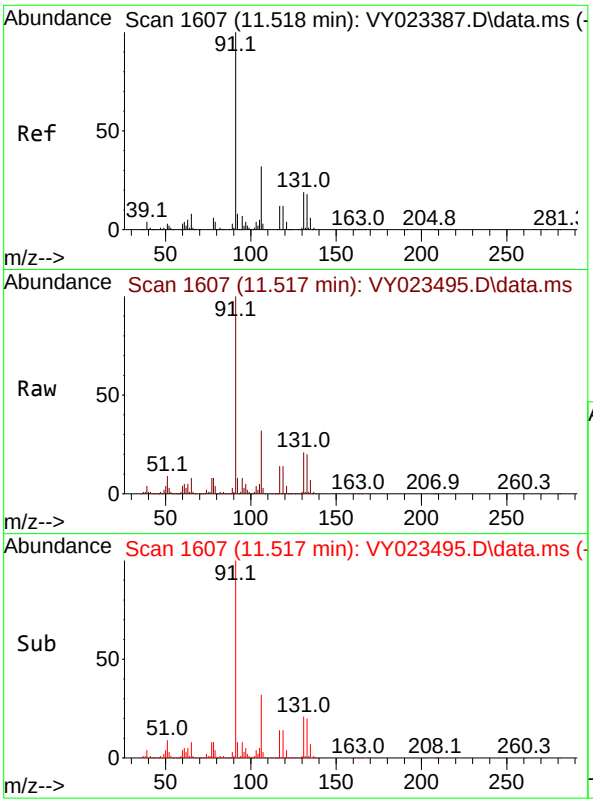


#66
1,1,1,2-Tetrachloroethane
Concen: 54.723 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:131 Resp: 285040

Ion	Ratio	Lower	Upper
131	100		
133	94.8	48.4	145.2
119	64.7	32.4	97.2

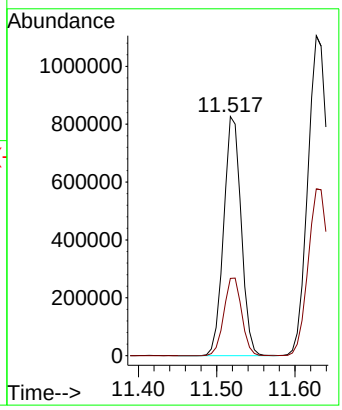




#67
Ethyl Benzene
Concen: 54.266 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 91 Resp: 128394

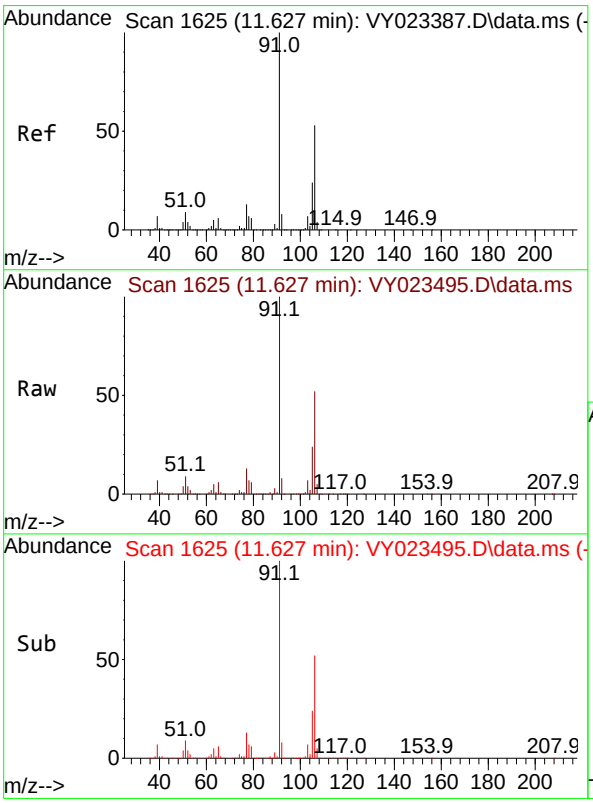
Ion	Ratio	Lower	Upper
91	100		
106	32.3	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

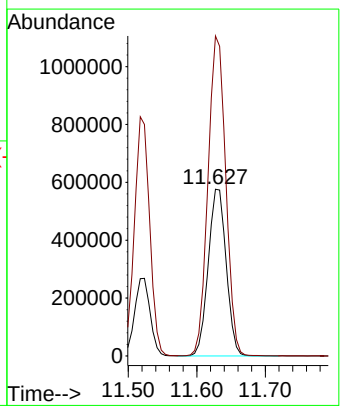
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

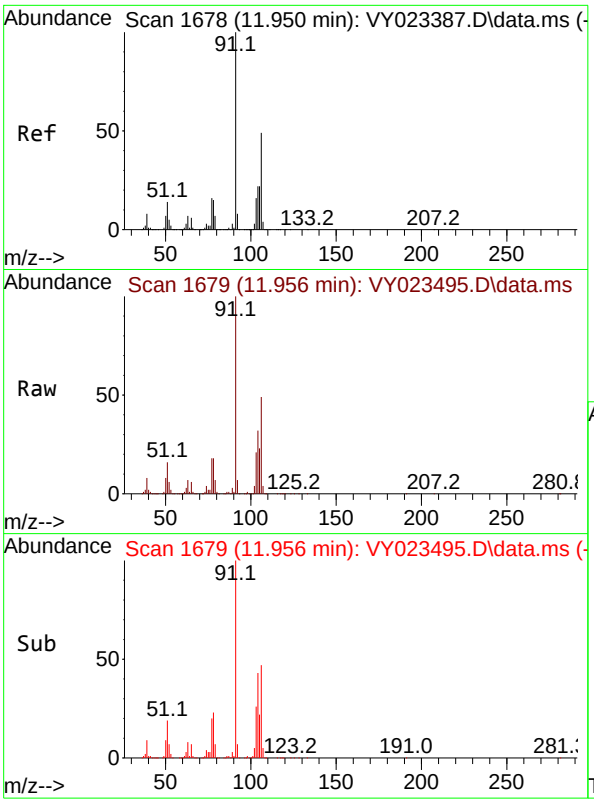


#68
m/p-Xylenes
Concen: 110.619 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:106 Resp: 1049774

Ion	Ratio	Lower	Upper
106	100		
91	190.1	152.6	229.0

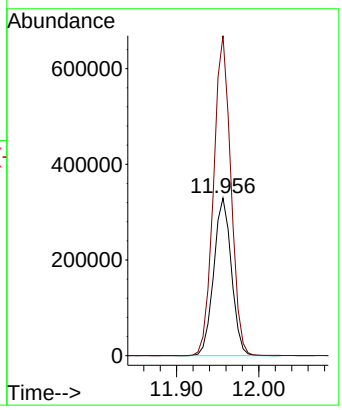




#69
o-Xylene
Concen: 55.176 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:106 Resp: 49114

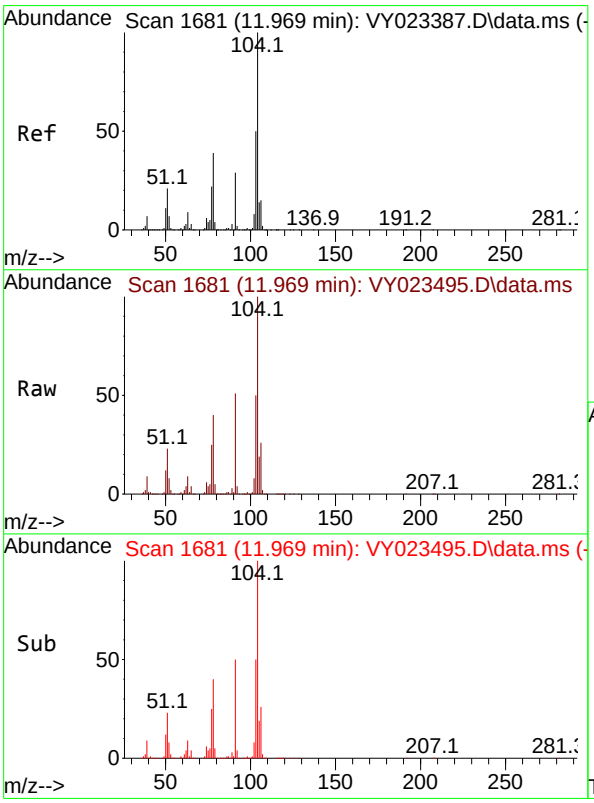
Ion	Ratio	Lower	Upper
106	100		
91	199.7	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

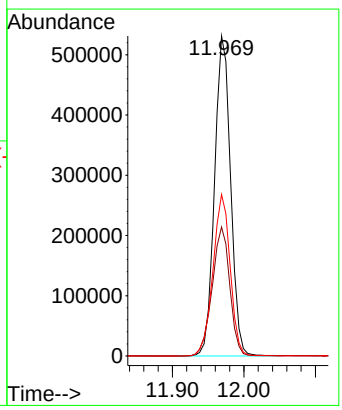
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

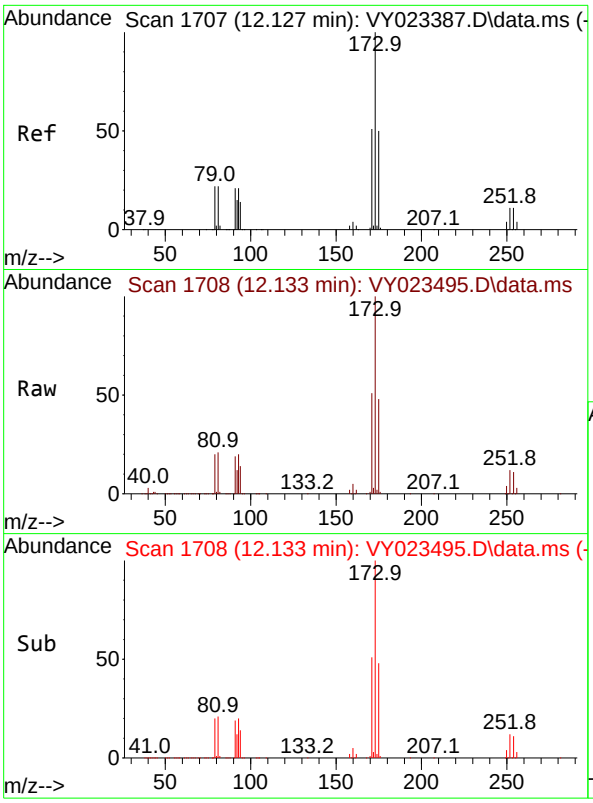


#70
Styrene
Concen: 56.530 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:104 Resp: 827476

Ion	Ratio	Lower	Upper
104	100		
78	44.3	36.1	54.1
103	54.1	43.2	64.8

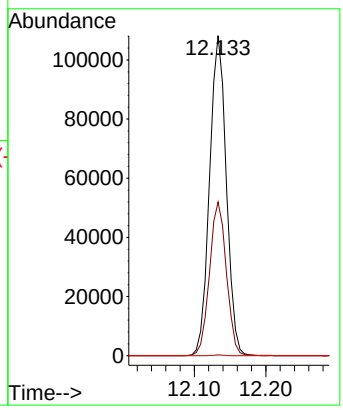




#71
Bromoform
Concen: 54.399 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

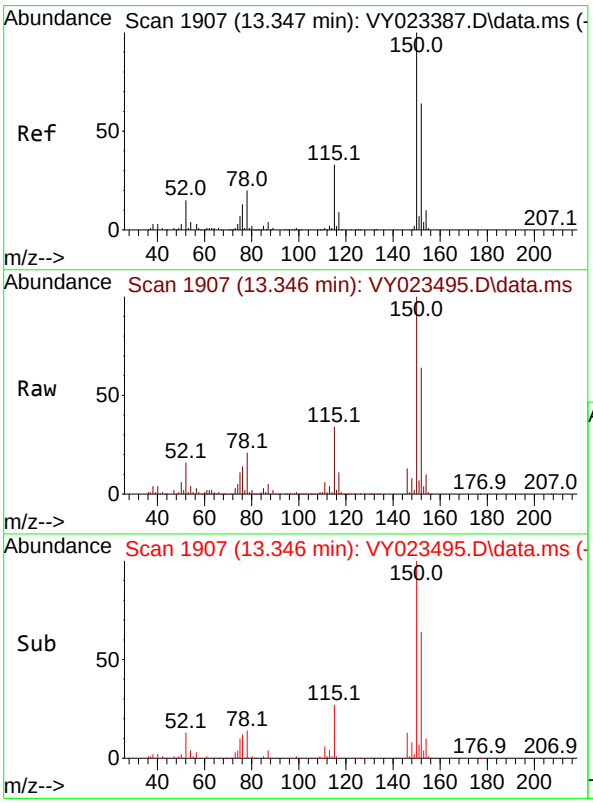
Tgt Ion:173 Resp: 17576

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.8	74.3
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

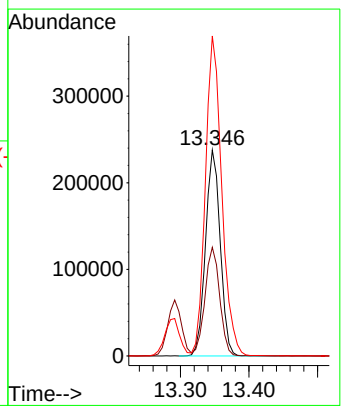
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

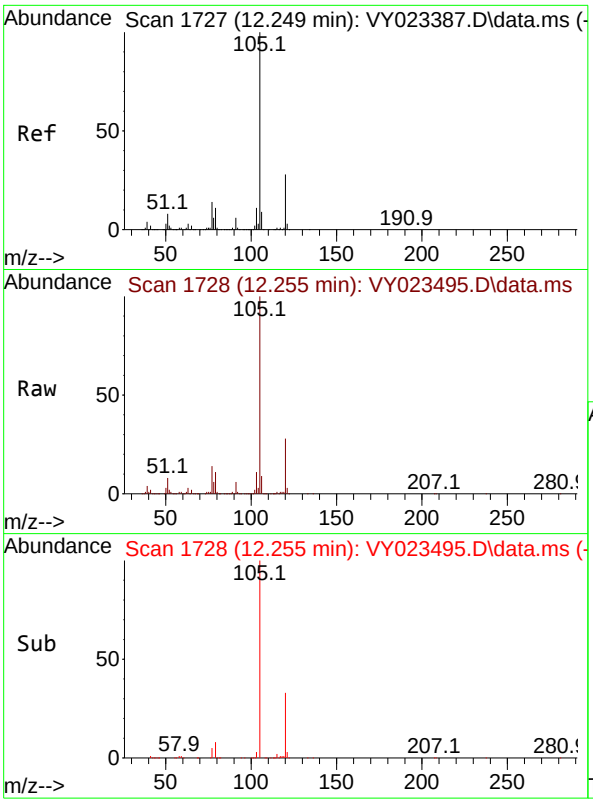


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:152 Resp: 355668

Ion	Ratio	Lower	Upper
152	100		
115	52.9	27.1	81.2
150	172.4	0.0	347.4

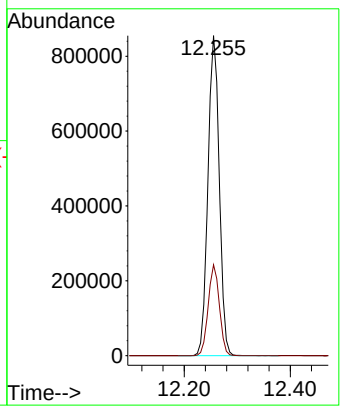




#73
Isopropylbenzene
Concen: 53.951 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:105 Resp: 126455

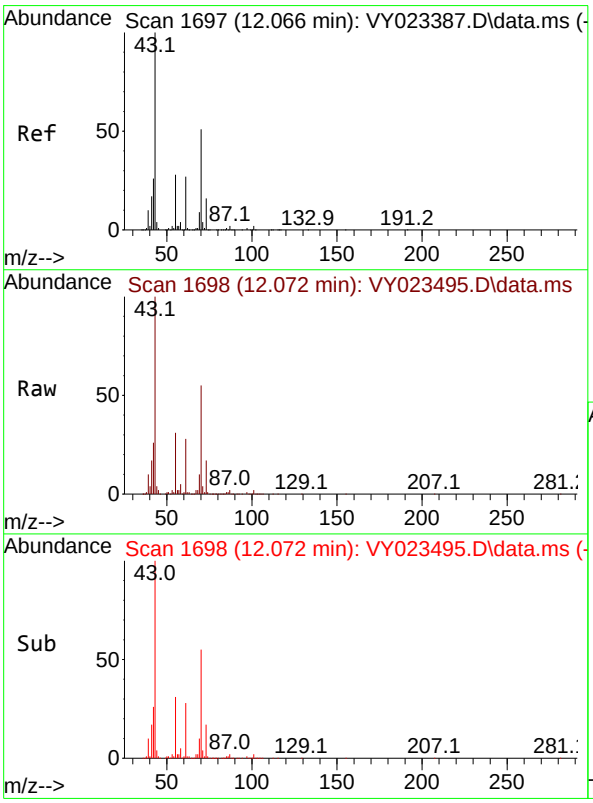
Ion	Ratio	Lower	Upper
105	100		
120	28.0	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

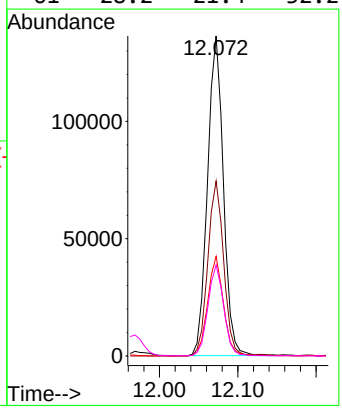
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

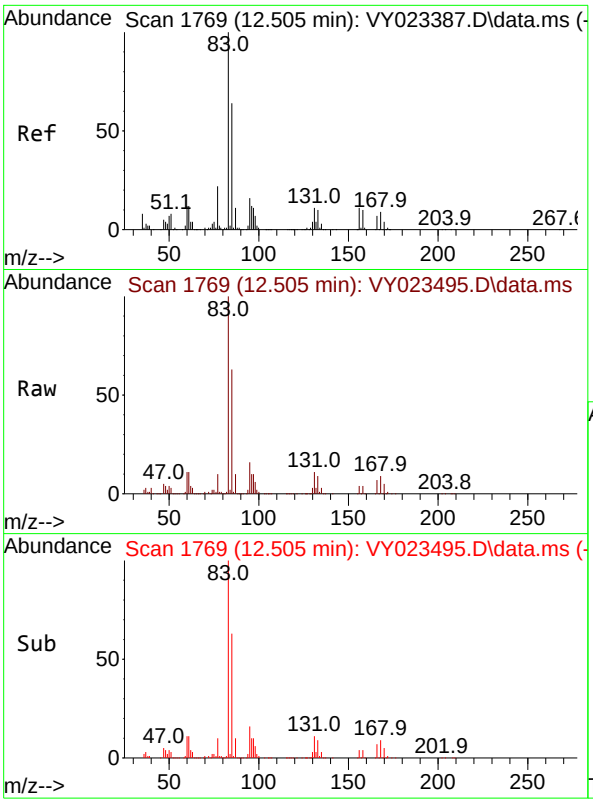


#74
N-amyl acetate
Concen: 45.646 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 43 Resp: 192168

Ion	Ratio	Lower	Upper
43	100		
70	54.4	41.1	61.7
55	31.0	23.0	34.6
61	28.2	21.4	32.2





#75
1,1,2,2-Tetrachloroethane
Concen: 51.230 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

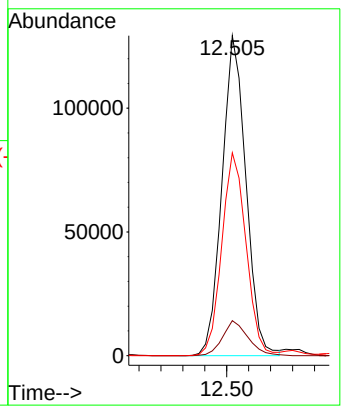
Tgt Ion: 83 Resp: 19639

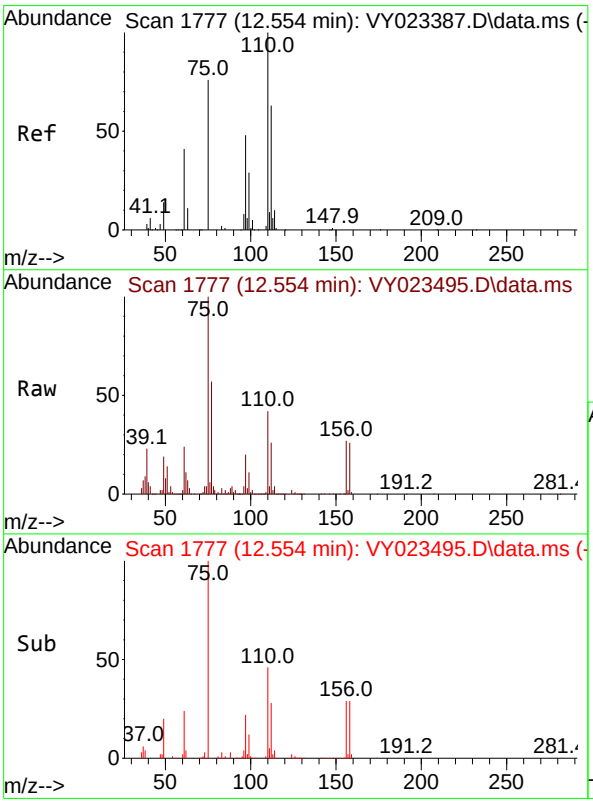
Ion	Ratio	Lower	Upper
83	100		
131	11.7	5.9	17.6
85	64.3	31.8	95.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

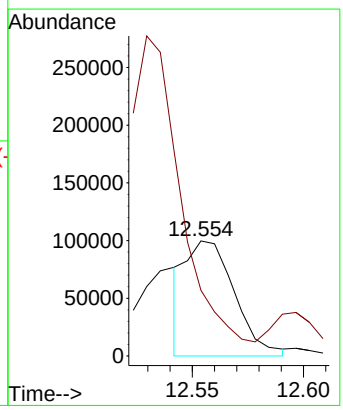


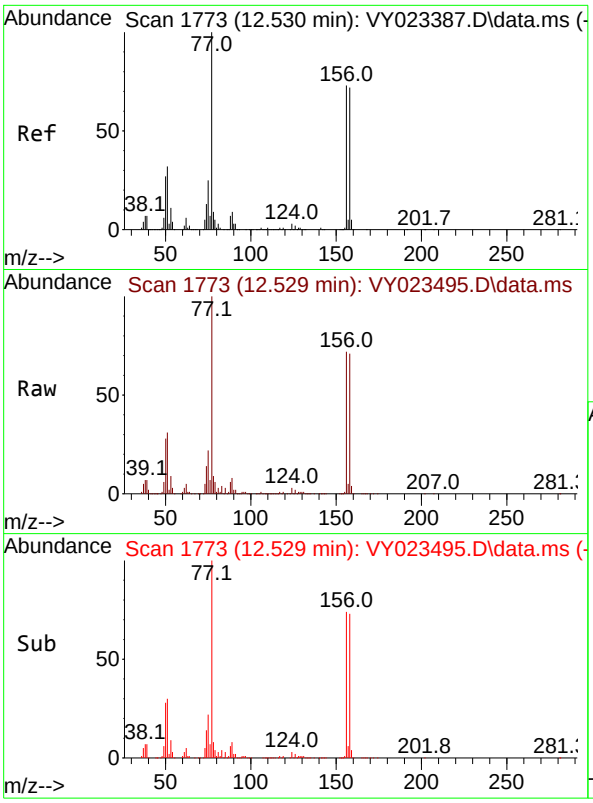


#76
1,2,3-Trichloropropane
Concen: 48.536 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 75 Resp: 152304

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

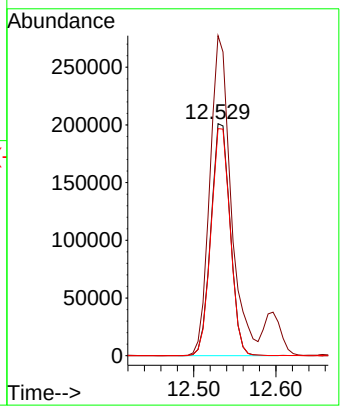




#77
Bromobenzene
Concen: 52.562 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:156 Resp: 32753

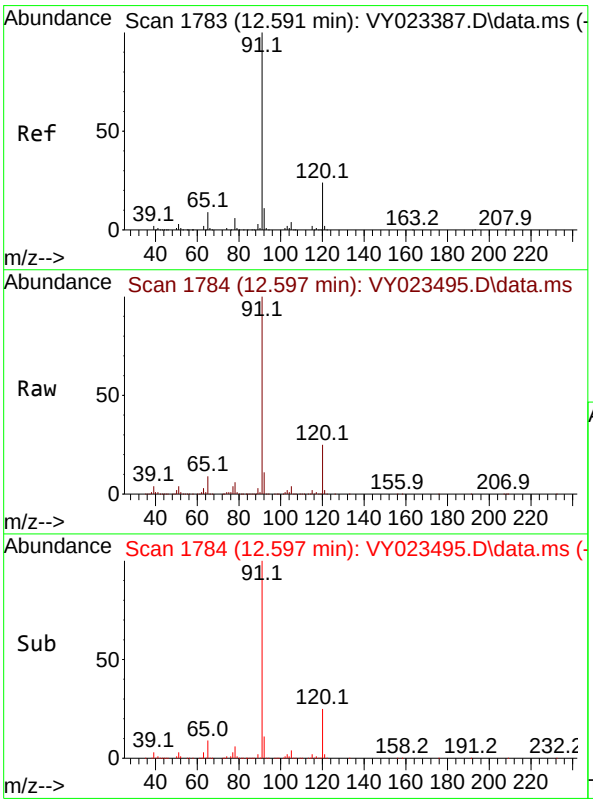
Ion	Ratio	Lower	Upper
156	100		
77	151.3	76.8	230.5
158	98.2	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

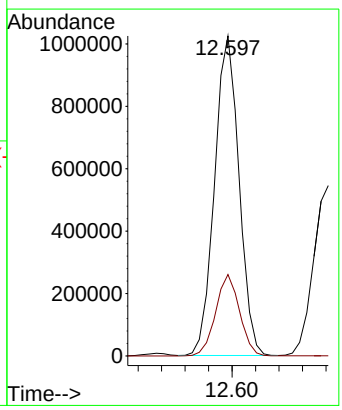
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

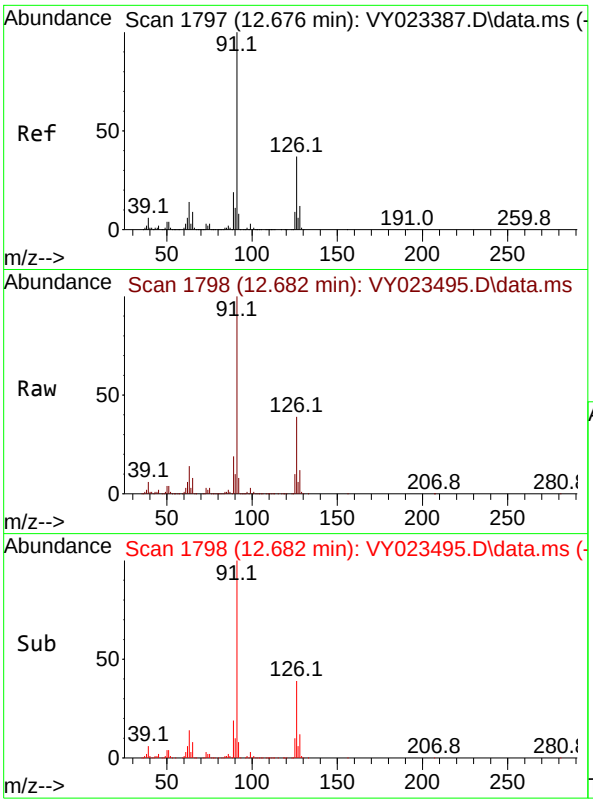


#78
n-propylbenzene
Concen: 54.623 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 91 Resp: 1481587

Ion	Ratio	Lower	Upper
91	100		
120	24.9	12.3	36.8

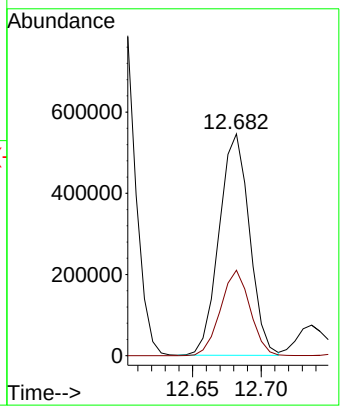




#79
2-Chlorotoluene
Concen: 52.894 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

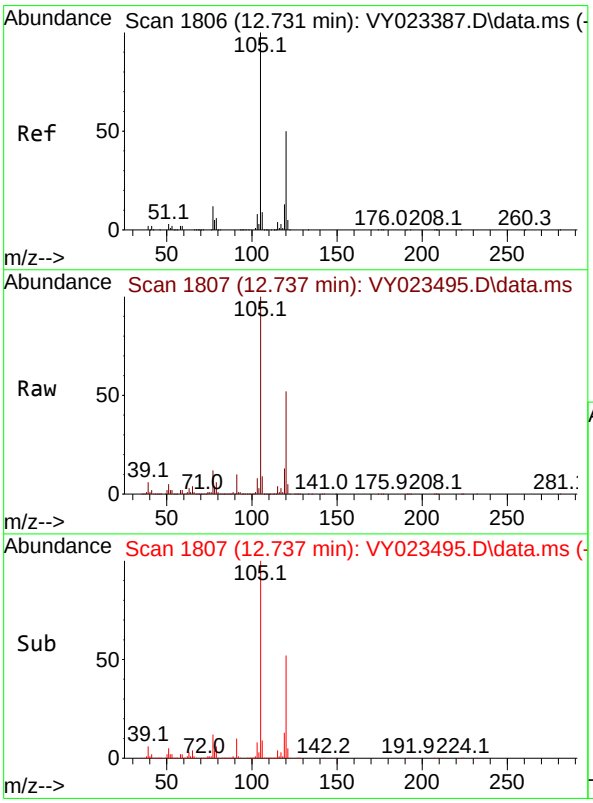
Tgt Ion: 91 Resp: 84014

Ion	Ratio	Lower	Upper
91	100		
126	37.6	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

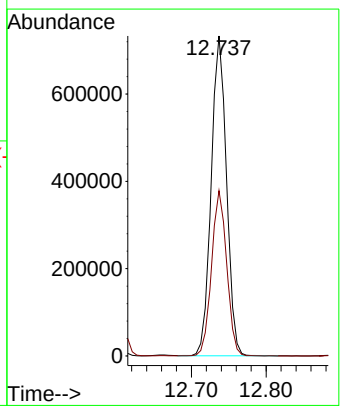
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

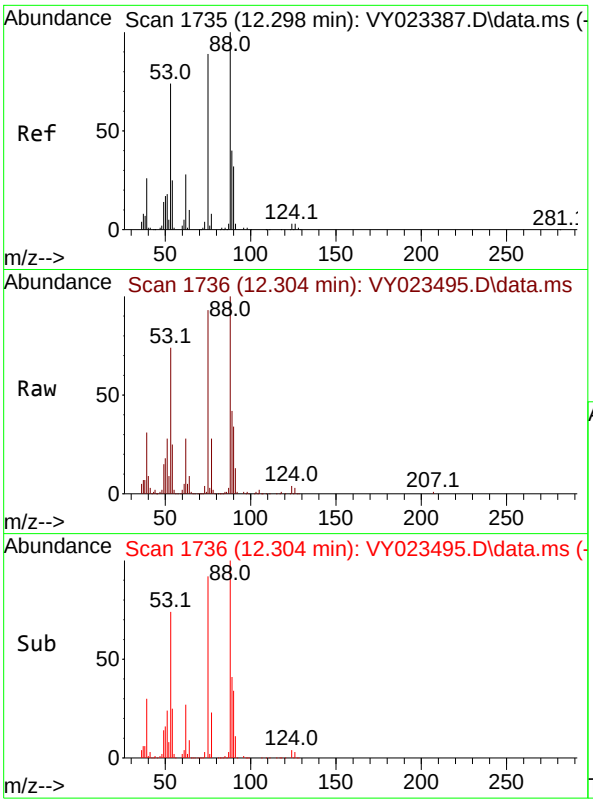


#80
1,3,5-Trimethylbenzene
Concen: 55.006 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:105 Resp: 1041828

Ion	Ratio	Lower	Upper
105	100		
120	51.1	25.4	76.4





#81
trans-1,4-Dichloro-2-butene
Concen: 50.539 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

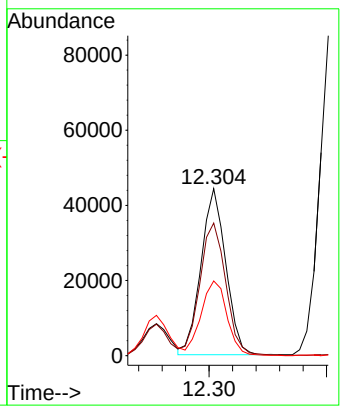
Tgt Ion: 75 Resp: 6467

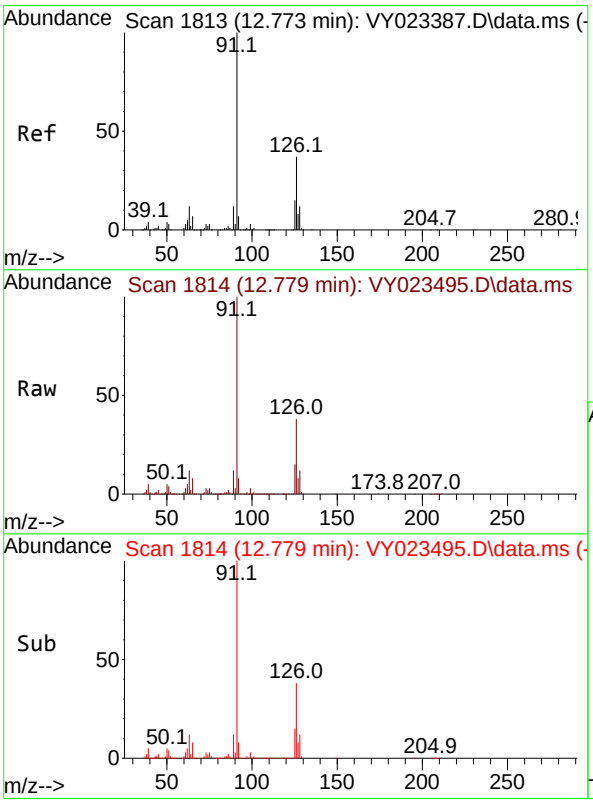
Ion	Ratio	Lower	Upper
75	100		
53	83.9	68.6	102.8
89	47.1	39.0	58.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

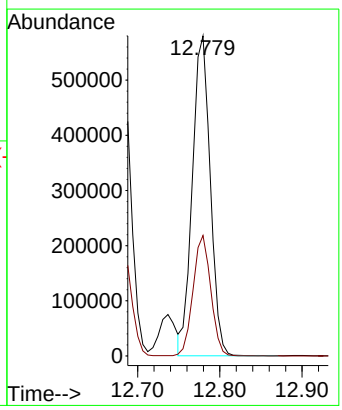


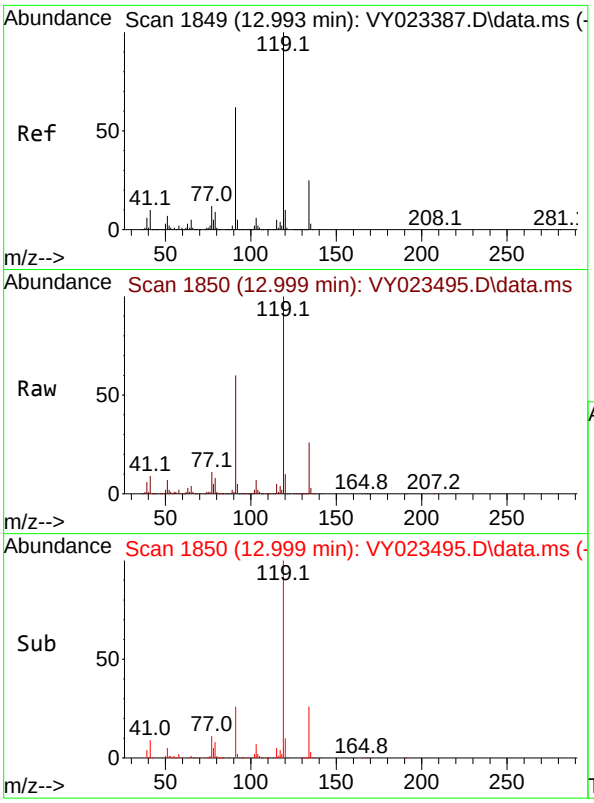


#82
4-Chlorotoluene
Concen: 53.545 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 91 Resp: 875903

Ion	Ratio	Lower	Upper
91	100		
126	37.4	18.4	55.4

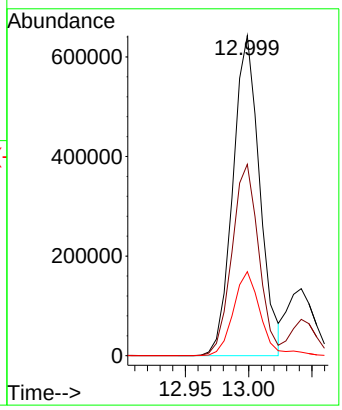




#83
tert-Butylbenzene
Concen: 54.352 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:119 Resp: 95050

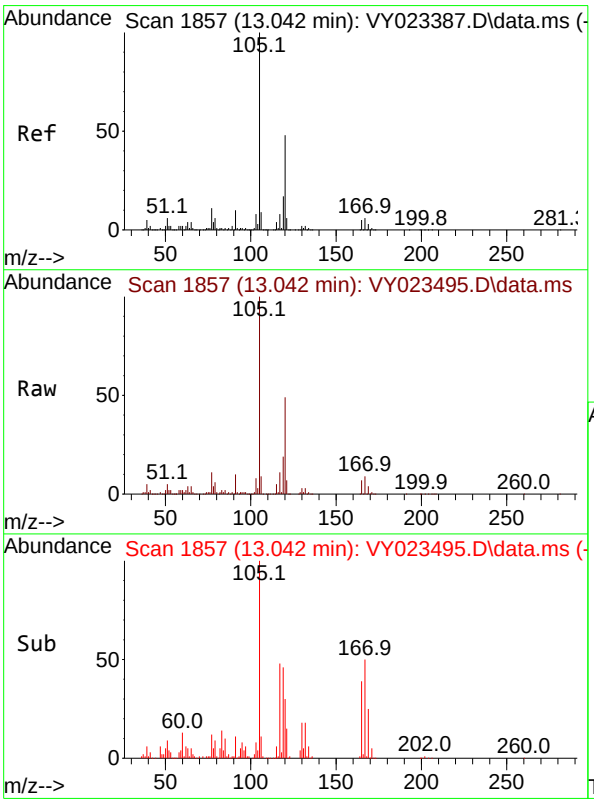
Ion	Ratio	Lower	Upper
119	100		
91	59.6	29.9	89.8
134	26.7	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

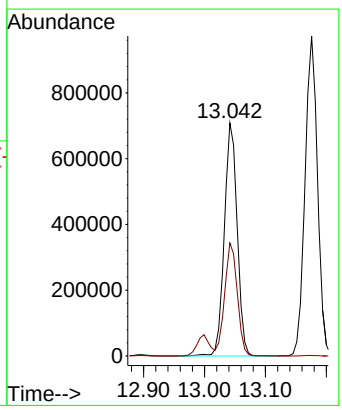
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

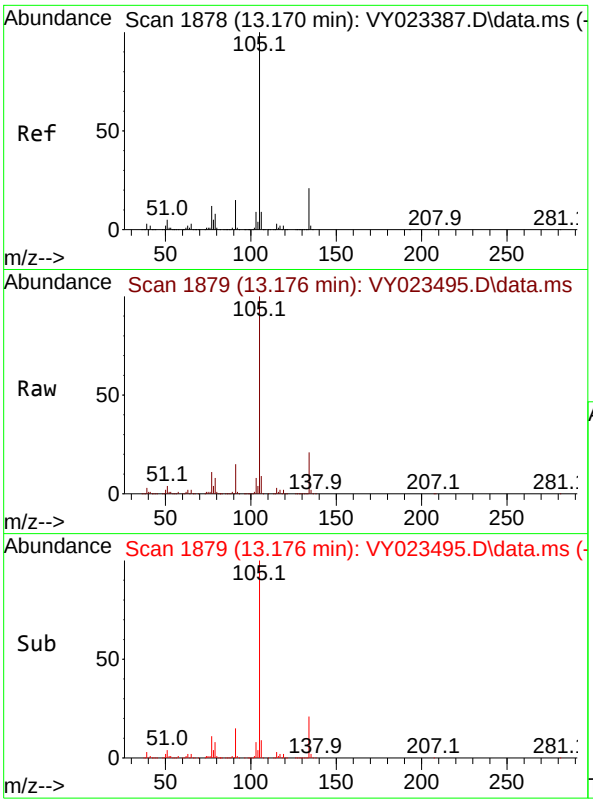


#84
1,2,4-Trimethylbenzene
Concen: 54.758 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:105 Resp: 1035061

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.2

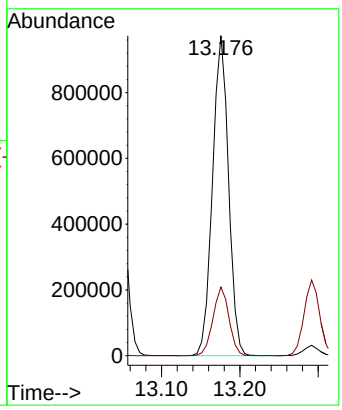




#85
sec-Butylbenzene
Concen: 54.992 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

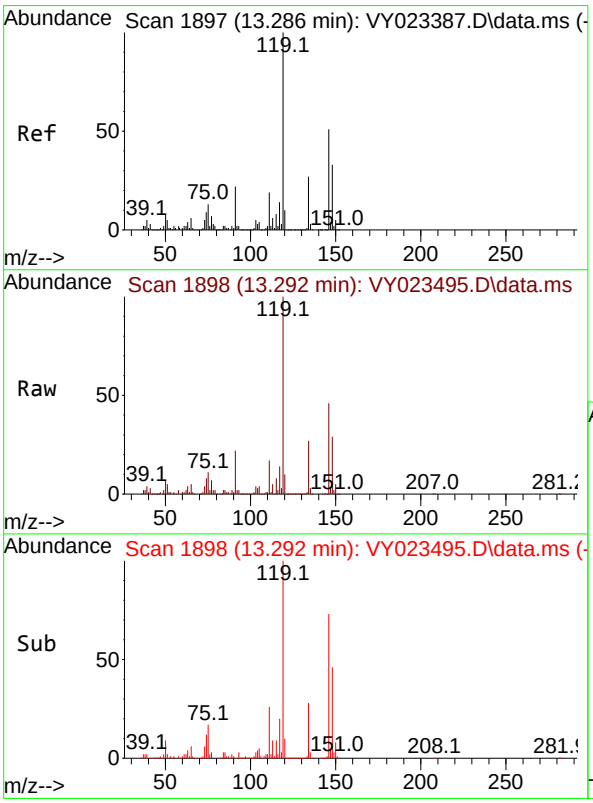
Tgt Ion:105 Resp: 137952

Ion	Ratio	Lower	Upper
105	100		
134	21.5	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

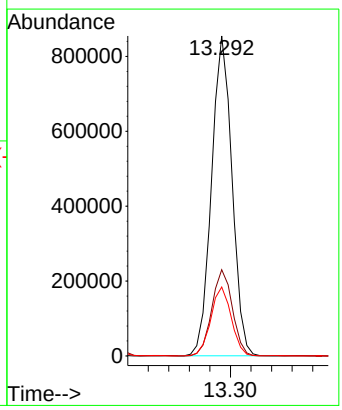
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

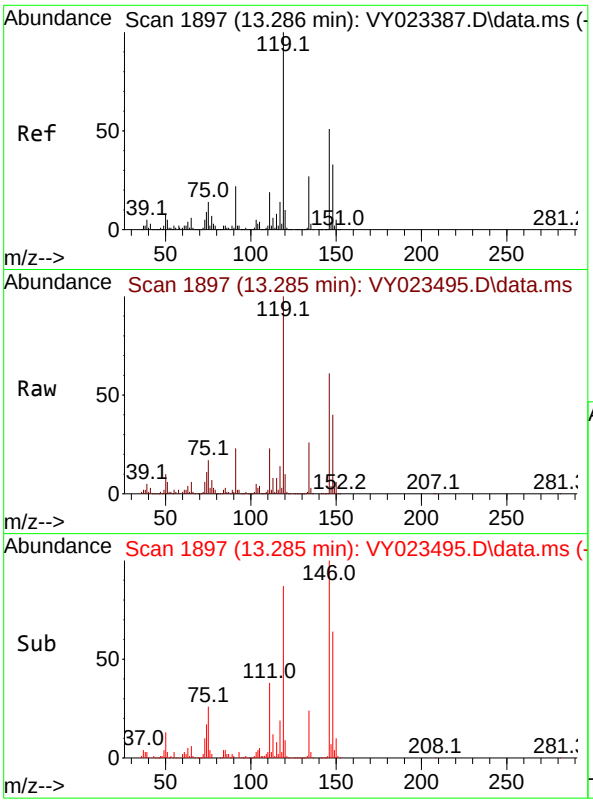


#86
p-Isopropyltoluene
Concen: 55.154 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:119 Resp: 1178031

Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.6	40.7
91	21.5	10.9	32.9

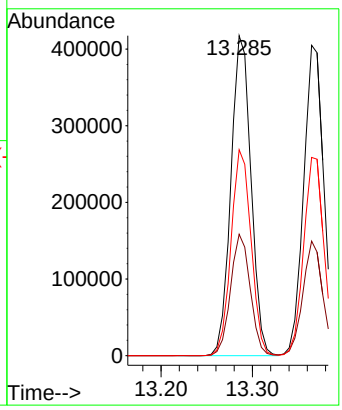




#87
1,3-Dichlorobenzene
Concen: 52.476 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:146 Resp: 63676

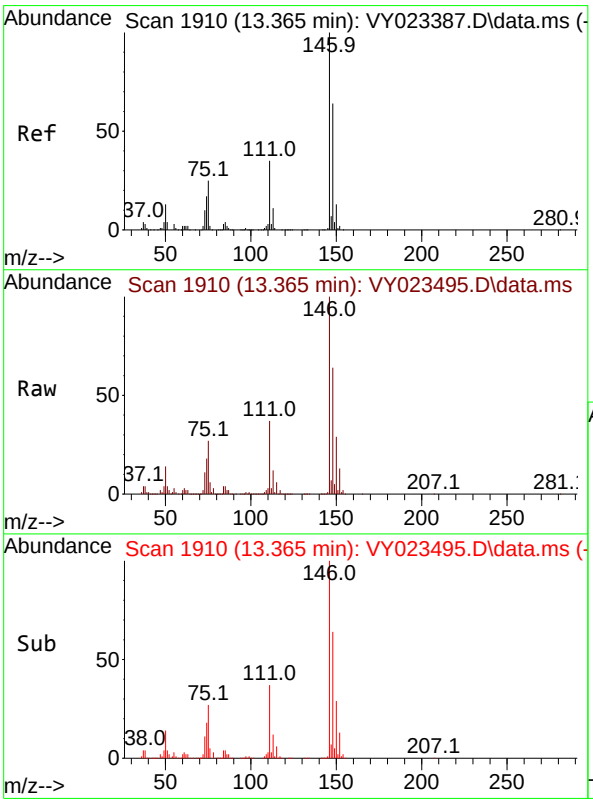
Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.7	56.1
148	64.2	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

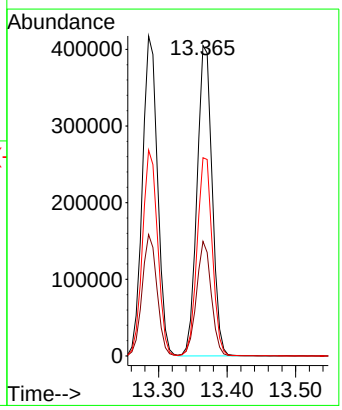
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

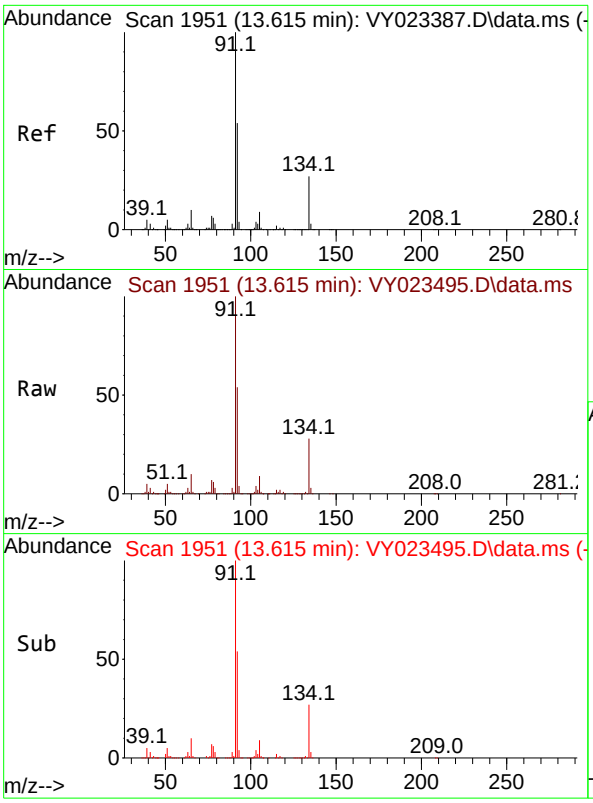


#88
1,4-Dichlorobenzene
Concen: 51.874 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:146 Resp: 621676

Ion	Ratio	Lower	Upper
146	100		
111	36.1	18.0	54.0
148	64.4	31.9	95.7

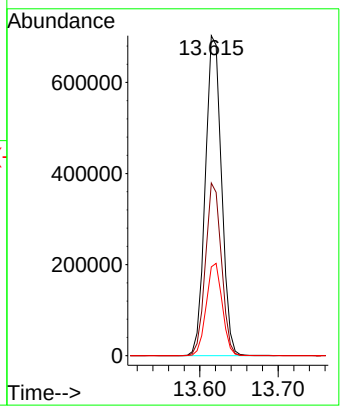




#89
n-Butylbenzene
Concen: 54.099 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 91 Resp: 100682

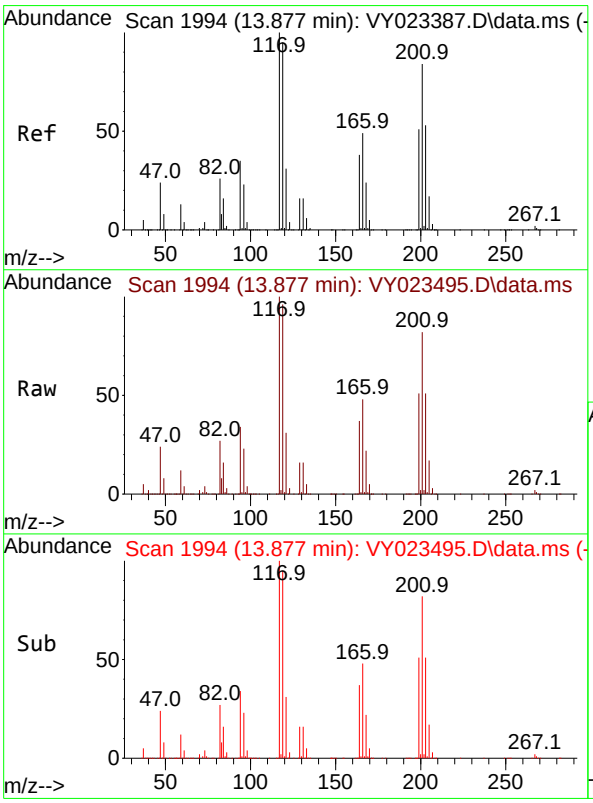
Ion	Ratio	Lower	Upper
91	100		
92	53.1	27.0	80.8
134	28.6	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

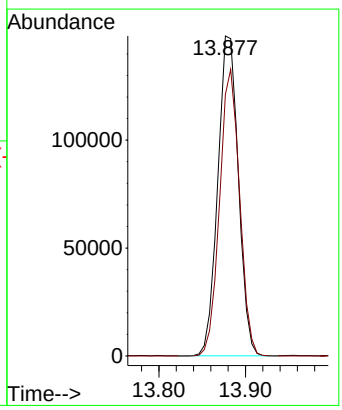
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

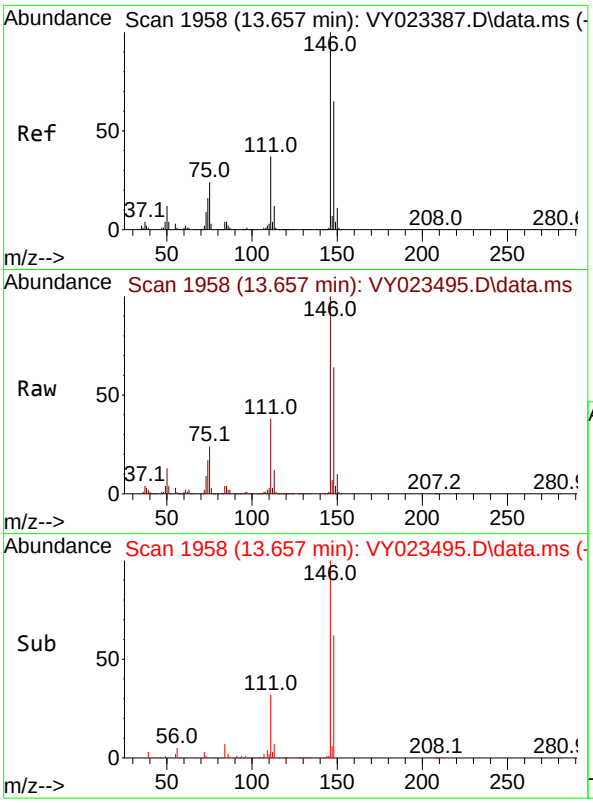


#90
Hexachloroethane
Concen: 53.282 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:117 Resp: 244771

Ion	Ratio	Lower	Upper
117	100		
201	86.8	43.8	131.4

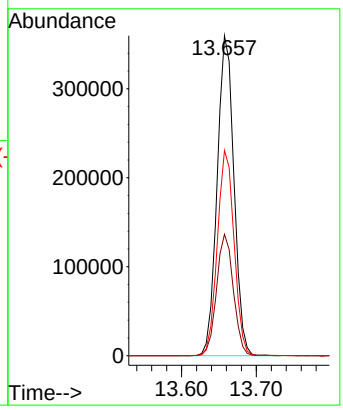




#91
1,2-Dichlorobenzene
Concen: 52.725 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

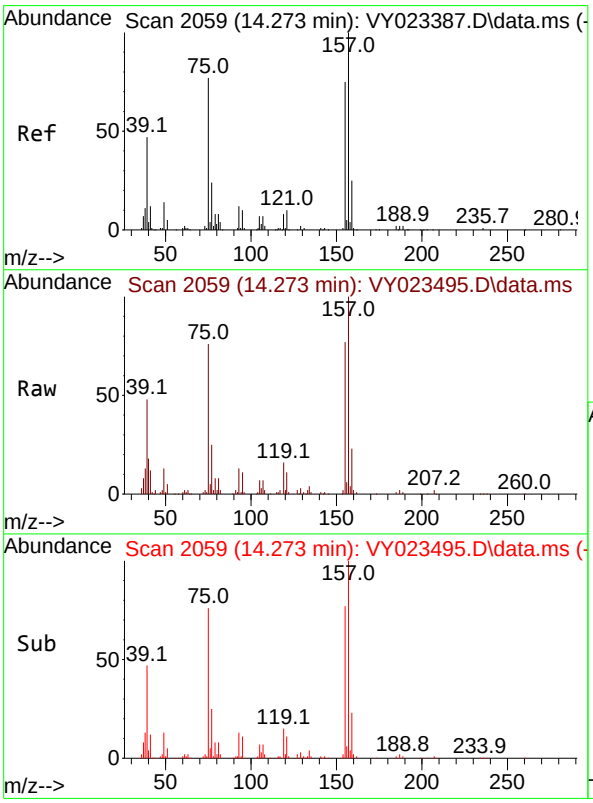
Tgt Ion:146 Resp: 56091

Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.0	57.0
148	64.0	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

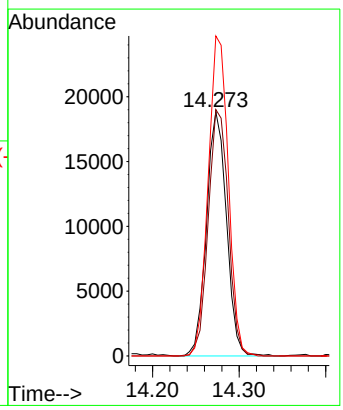
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

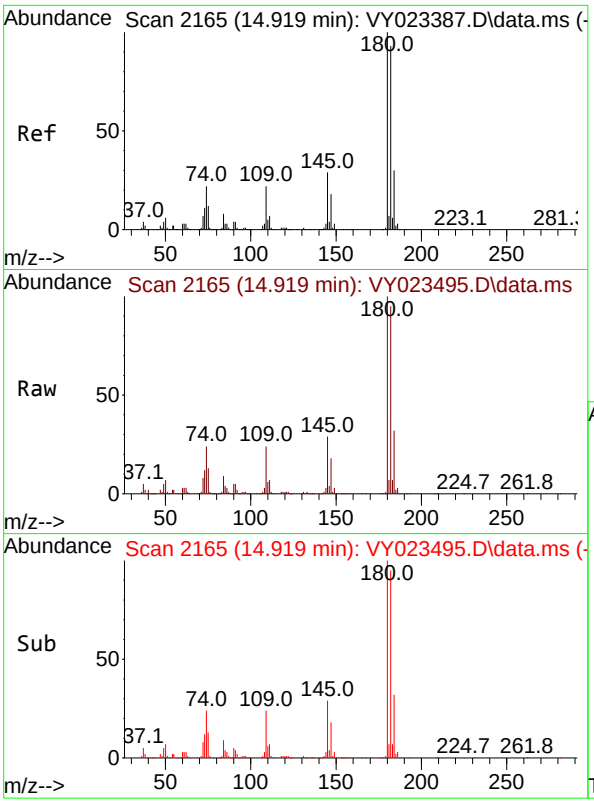


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.998 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion: 75 Resp: 30192

Ion	Ratio	Lower	Upper
75	100		
155	101.4	50.0	150.0
157	131.8	63.8	191.5

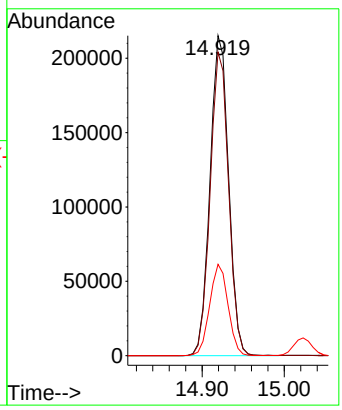




#93
1,2,4-Trichlorobenzene
Concen: 50.889 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:180 Resp: 337509

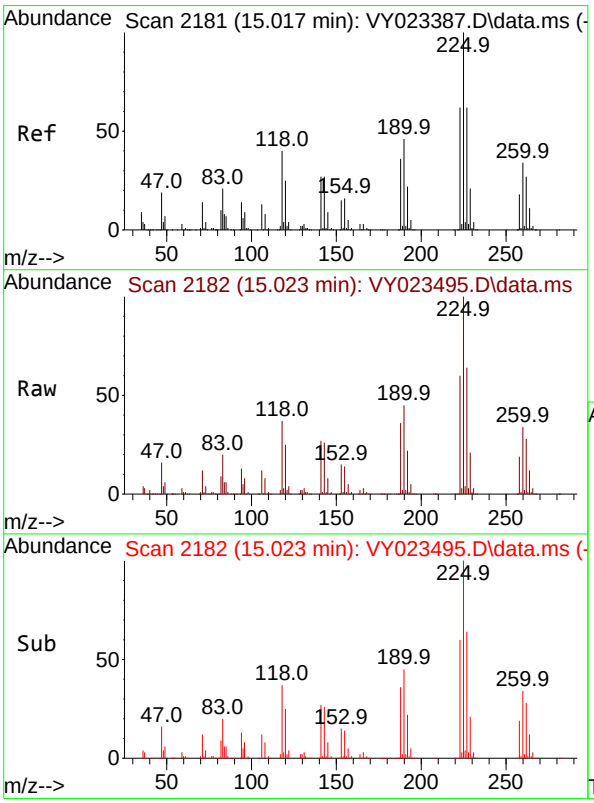
Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.9	143.6
145	28.3	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

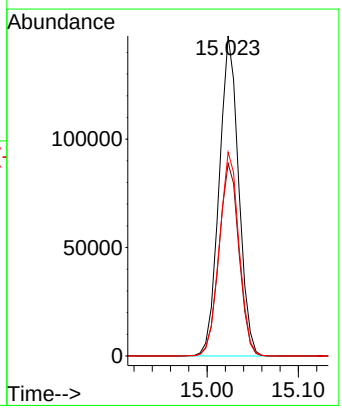
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

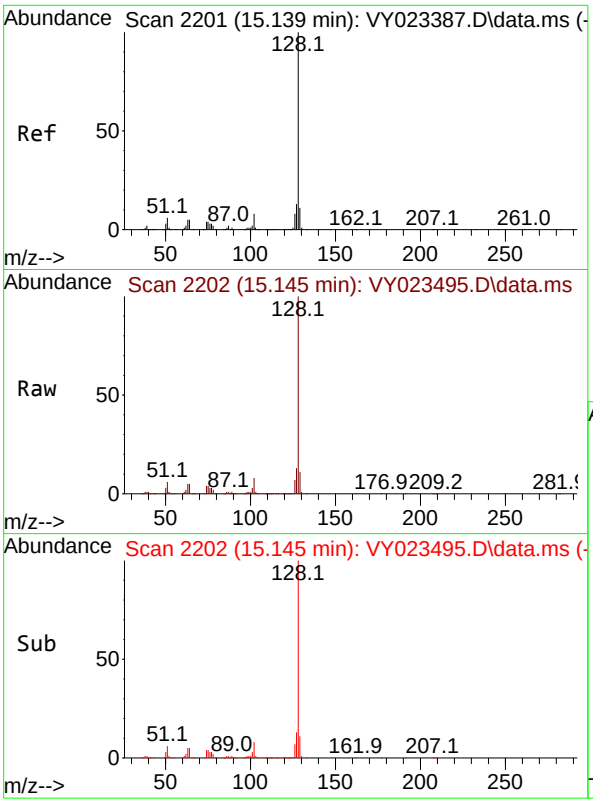


#94
Hexachlorobutadiene
Concen: 52.895 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:225 Resp: 218682

Ion	Ratio	Lower	Upper
225	100		
223	61.4	30.8	92.3
227	64.5	31.9	95.7

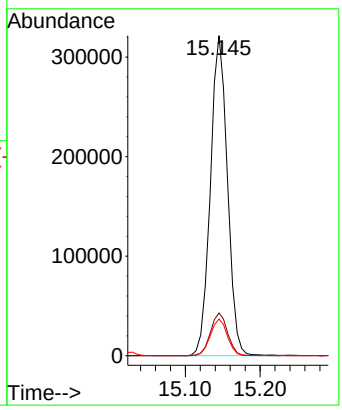




#95
Naphthalene
Concen: 48.113 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

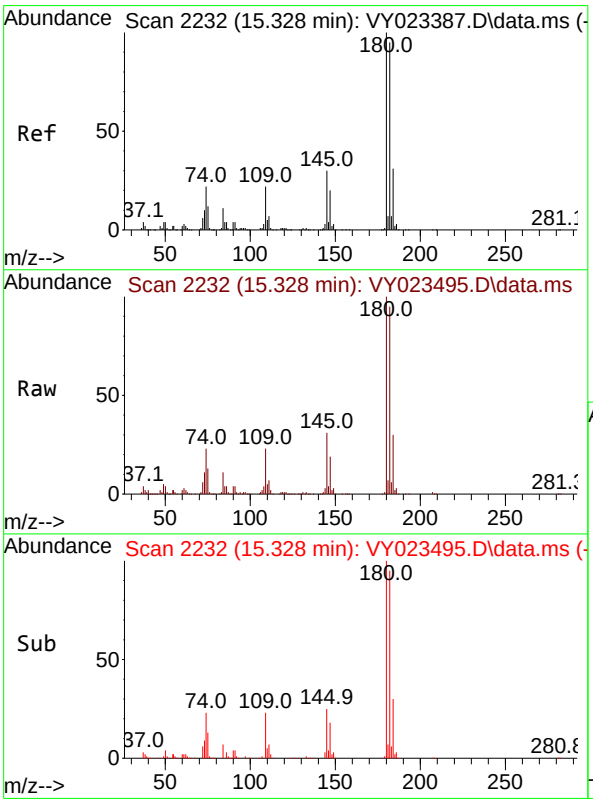
Tgt Ion:128 Resp: 50812

Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.4	15.6
129	11.4	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

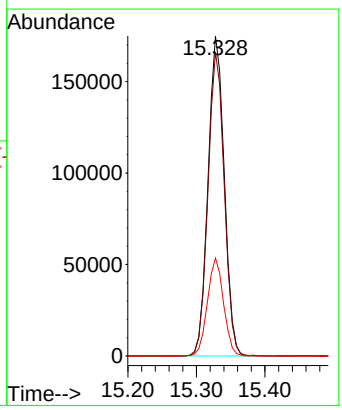
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.310 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023495.D
Acq: 20 Oct 2025 09:10

Tgt Ion:180 Resp: 289016

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.9	143.8
145	30.3	15.3	45.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023495.D
Acq On : 20 Oct 2025 09:10
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: Oct 21 03:53:17 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	92	0.00
2	T	Dichlorodifluoromethane	0.360	0.313	13.1	90	0.00
3	P	Chloromethane	0.490	0.411	16.1	85	0.00
4	C	Vinyl Chloride	0.639	0.566	11.4#	87	0.00
5	T	Bromomethane	0.536	0.473	11.8	93	0.00
6	T	Chloroethane	0.435	0.409	6.0	91	0.00
7	T	Trichlorofluoromethane	0.887	0.849	4.3	93	0.00
8	T	Diethyl Ether	0.232	0.218	6.0	94	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.460	0.460	0.0	97	0.00
10	T	Methyl Iodide	0.512	0.568	-10.9	97	0.00
11	T	Tert butyl alcohol	0.031	0.030	3.2	110	0.00
12	CM	1,1-Dichloroethene	0.446	0.432	3.1#	93	0.00
13	T	Acrolein	0.044	0.015	65.9#	34#	0.01
14	T	Allyl chloride	0.544	0.496	8.8	87	0.00
15	T	Acrylonitrile	0.089	0.083	6.7	94	0.00
16	T	Acetone	0.100	0.098	2.0	108	0.00
17	T	Carbon Disulfide	1.277	1.195	6.4	90	0.00
18	T	Methyl Acetate	0.261	0.266	-1.9	100	0.00
19	T	Methyl tert-butyl Ether	1.072	1.041	2.9	94	0.00
20	T	Methylene Chloride	0.538	0.486	9.7	98	0.00
21	T	trans-1,2-Dichloroethene	0.491	0.495	-0.8	97	0.00
22	T	Diisopropyl ether	1.202	1.160	3.5	92	0.00
23	T	Vinyl Acetate	0.651	0.592	9.1	88	0.00
24	P	1,1-Dichloroethane	0.796	0.781	1.9	95	0.00
25	T	2-Butanone	0.122	0.109	10.7	96	0.00
26	T	2,2-Dichloropropane	0.731	0.745	-1.9	98	0.00
27	T	cis-1,2-Dichloroethene	0.567	0.587	-3.5	100	0.00
28	T	Bromochloromethane	0.297	0.251	15.5	87	0.00
29	T	Tetrahydrofuran	0.069	0.061	11.6	88	0.00
30	C	Chloroform	0.875	0.897	-2.5#	99	0.00
31	T	Cyclohexane	0.696	0.625	10.2	90	0.00
32	T	1,1,1-Trichloroethane	0.795	0.812	-2.1	98	0.00
33	S	1,2-Dichloroethane-d4	0.418	0.377	9.8	89	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	87	0.00
35	S	Dibromofluoromethane	0.307	0.316	-2.9	93	0.00
36	T	1,1-Dichloropropene	0.407	0.436	-7.1	96	0.00
37	T	Ethyl Acetate	0.161	0.156	3.1	91	0.00
38	T	Carbon Tetrachloride	0.493	0.541	-9.7	98	0.00
39	T	Methylcyclohexane	0.530	0.553	-4.3	92	0.00
40	TM	Benzene	1.288	1.374	-6.7	95	0.00
41	T	Methacrylonitrile	0.087	0.086	1.1	94	0.00
42	TM	1,2-Dichloroethane	0.332	0.341	-2.7	95	0.00
43	T	Isopropyl Acetate	0.321	0.303	5.6	88	0.00
44	TM	Trichloroethene	0.377	0.407	-8.0	97	0.00
45	C	1,2-Dichloropropane	0.285	0.306	-7.4#	98	0.00
46	T	Dibromomethane	0.180	0.192	-6.7	97	0.00
47	T	Bromodichloromethane	0.453	0.495	-9.3	99	0.00
48	T	Methyl methacrylate	0.151	0.145	4.0	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023495.D
Acq On : 20 Oct 2025 09:10
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: Oct 21 03:53:17 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	93	0.00
50	S	Toluene-d8	1.144	1.163	-1.7	90	0.00
51	T	4-Methyl-2-Pentanone	0.166	0.166	0.0	91	0.00
52	CM	Toluene	0.836	0.928	-11.0#	98	0.00
53	T	t-1,3-Dichloropropene	0.394	0.415	-5.3	94	0.00
54	T	cis-1,3-Dichloropropene	0.465	0.498	-7.1	96	0.00
55	T	1,1,2-Trichloroethane	0.242	0.265	-9.5	100	0.00
56	T	Ethyl methacrylate	0.279	0.297	-6.5	93	0.00
57	T	1,3-Dichloropropane	0.383	0.409	-6.8	96	0.00
58	T	2-Chloroethyl Vinyl ether	0.125	0.127	-1.6	86	0.00
59	T	2-Hexanone	0.119	0.120	-0.8	94	0.00
60	T	Dibromochloromethane	0.339	0.380	-12.1	102	0.00
61	T	1,2-Dibromoethane	0.231	0.247	-6.9	97	0.00
62	S	4-Bromofluorobenzene	0.378	0.379	-0.3	91	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
64	T	Tetrachloroethene	0.516	0.560	-8.5	96	0.00
65	PM	Chlorobenzene	1.087	1.159	-6.6	99	0.00
66	T	1,1,1,2-Tetrachloroethane	0.388	0.424	-9.3	102	0.00
67	C	Ethyl Benzene	1.760	1.910	-8.5#	96	0.00
68	T	m/p-Xylenes	0.706	0.781	-10.6	97	0.00
69	T	o-Xylene	0.662	0.731	-10.4	98	0.00
70	T	Styrene	1.089	1.231	-13.0	99	0.00
71	P	Bromoform	0.240	0.262	-9.2	102	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73	T	Isopropylbenzene	3.295	3.555	-7.9	97	0.00
74	T	N-amyl acetate	0.592	0.540	8.8	84	0.00
75	P	1,1,2,2-Tetrachloroethane	0.539	0.552	-2.4	100	0.00
76	T	1,2,3-Trichloropropane	0.441	0.428	2.9	90	0.00
77	T	Bromobenzene	0.876	0.921	-5.1	99	0.00
78	T	n-propylbenzene	3.813	4.166	-9.3	97	0.00
79	T	2-Chlorotoluene	2.233	2.362	-5.8	96	0.00
80	T	1,3,5-Trimethylbenzene	2.663	2.929	-10.0	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.180	0.182	-1.1	98	0.00
82	T	4-Chlorotoluene	2.300	2.463	-7.1	98	0.00
83	T	tert-Butylbenzene	2.458	2.672	-8.7	96	0.00
84	T	1,2,4-Trimethylbenzene	2.657	2.910	-9.5	98	0.00
85	T	sec-Butylbenzene	3.527	3.879	-10.0	98	0.00
86	T	p-Isopropyltoluene	3.003	3.312	-10.3	97	0.00
87	T	1,3-Dichlorobenzene	1.706	1.790	-4.9	98	0.00
88	T	1,4-Dichlorobenzene	1.685	1.748	-3.7	98	0.00
89	T	n-Butylbenzene	2.616	2.831	-8.2	96	0.00
90	T	Hexachloroethane	0.646	0.688	-6.5	100	0.00
91	T	1,2-Dichlorobenzene	1.496	1.577	-5.4	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.088	0.085	3.4	93	0.00
93	T	1,2,4-Trichlorobenzene	0.932	0.949	-1.8	94	0.00
94	T	Hexachlorobutadiene	0.581	0.615	-5.9	97	0.00
95	T	Naphthalene	1.485	1.429	3.8	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023495.D
Acq On : 20 Oct 2025 09:10
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: Oct 21 03:53:17 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	0.813	-0.6	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023495.D
Acq On : 20 Oct 2025 09:10
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: Oct 21 03:53:17 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	92	0.00
2	T	Dichlorodifluoromethane	50.000	43.432	13.1	90	0.00
3	P	Chloromethane	50.000	41.955	16.1	85	0.00
4	C	Vinyl Chloride	50.000	44.279	11.4#	87	0.00
5	T	Bromomethane	50.000	44.117	11.8	93	0.00
6	T	Chloroethane	50.000	46.989	6.0	91	0.00
7	T	Trichlorofluoromethane	50.000	47.866	4.3	93	0.00
8	T	Diethyl Ether	50.000	46.977	6.0	94	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.022	-0.0	97	0.00
10	T	Methyl Iodide	50.000	55.425	-10.8	97	0.00
11	T	Tert butyl alcohol	250.000	238.750	4.5	110	0.00
12	CM	1,1-Dichloroethene	50.000	48.456	3.1#	93	0.00
13	T	Acrolein	250.000	88.000	64.8#	34	0.01
14	T	Allyl chloride	50.000	45.626	8.7	87	0.00
15	T	Acrylonitrile	250.000	233.847	6.5	94	0.00
16	T	Acetone	250.000	246.734	1.3	108	0.00
17	T	Carbon Disulfide	50.000	46.815	6.4	90	0.00
18	T	Methyl Acetate	50.000	50.963	-1.9	100	0.00
19	T	Methyl tert-butyl Ether	50.000	48.537	2.9	94	0.00
20	T	Methylene Chloride	50.000	45.149	9.7	98	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.440	-0.9	97	0.00
22	T	Diisopropyl ether	50.000	48.233	3.5	92	0.00
23	T	Vinyl Acetate	250.000	227.456	9.0	88	0.00
24	P	1,1-Dichloroethane	50.000	49.020	2.0	95	0.00
25	T	2-Butanone	250.000	224.649	10.1	96	0.00
26	T	2,2-Dichloropropane	50.000	50.981	-2.0	98	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.768	-3.5	100	0.00
28	T	Bromochloromethane	50.000	42.199	15.6	87	0.00
29	T	Tetrahydrofuran	250.000	220.392	11.8	88	0.00
30	C	Chloroform	50.000	51.246	-2.5#	99	0.00
31	T	Cyclohexane	50.000	44.939	10.1	90	0.00
32	T	1,1,1-Trichloroethane	50.000	51.062	-2.1	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.129	9.7	89	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	87	0.00
35	S	Dibromofluoromethane	50.000	51.463	-2.9	93	0.00
36	T	1,1-Dichloropropene	50.000	53.565	-7.1	96	0.00
37	T	Ethyl Acetate	50.000	48.487	3.0	91	0.00
38	T	Carbon Tetrachloride	50.000	54.836	-9.7	98	0.00
39	T	Methylcyclohexane	50.000	52.219	-4.4	92	0.00
40	TM	Benzene	50.000	53.325	-6.7	95	0.00
41	T	Methacrylonitrile	50.000	49.293	1.4	94	0.00
42	TM	1,2-Dichloroethane	50.000	51.321	-2.6	95	0.00
43	T	Isopropyl Acetate	50.000	47.184	5.6	88	0.00
44	TM	Trichloroethene	50.000	53.923	-7.8	97	0.00
45	C	1,2-Dichloropropane	50.000	53.701	-7.4#	98	0.00
46	T	Dibromomethane	50.000	53.425	-6.8	97	0.00
47	T	Bromodichloromethane	50.000	54.605	-9.2	99	0.00
48	T	Methyl methacrylate	50.000	47.982	4.0	86	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023495.D
Acq On : 20 Oct 2025 09:10
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: Oct 21 03:53:17 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	1008.798	-0.9	93	0.00
50	S	Toluene-d8	50.000	50.825	-1.7	90	0.00
51	T	4-Methyl-2-Pentanone	250.000	250.488	-0.2	91	0.00
52	CM	Toluene	50.000	55.484	-11.0#	98	0.00
53	T	t-1,3-Dichloropropene	50.000	52.623	-5.2	94	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.527	-7.1	96	0.00
55	T	1,1,2-Trichloroethane	50.000	54.709	-9.4	100	0.00
56	T	Ethyl methacrylate	50.000	53.185	-6.4	93	0.00
57	T	1,3-Dichloropropane	50.000	53.368	-6.7	96	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	254.520	-1.8	86	0.00
59	T	2-Hexanone	250.000	252.586	-1.0	94	0.00
60	T	Dibromochloromethane	50.000	56.001	-12.0	102	0.00
61	T	1,2-Dibromoethane	50.000	53.534	-7.1	97	0.00
62	S	4-Bromofluorobenzene	50.000	50.104	-0.2	91	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	90	0.00
64	T	Tetrachloroethene	50.000	54.195	-8.4	96	0.00
65	PM	Chlorobenzene	50.000	53.290	-6.6	99	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	54.723	-9.4	102	0.00
67	C	Ethyl Benzene	50.000	54.266	-8.5#	96	0.00
68	T	m/p-Xylenes	100.000	110.619	-10.6	97	0.00
69	T	o-Xylene	50.000	55.176	-10.4	98	0.00
70	T	Styrene	50.000	56.530	-13.1	99	0.00
71	P	Bromoform	50.000	54.399	-8.8	102	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73	T	Isopropylbenzene	50.000	53.951	-7.9	97	0.00
74	T	N-amyl acetate	50.000	45.646	8.7	84	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	51.230	-2.5	100	0.00
76	T	1,2,3-Trichloropropane	50.000	48.536	2.9	90	0.00
77	T	Bromobenzene	50.000	52.562	-5.1	99	0.00
78	T	n-propylbenzene	50.000	54.623	-9.2	97	0.00
79	T	2-Chlorotoluene	50.000	52.894	-5.8	96	0.00
80	T	1,3,5-Trimethylbenzene	50.000	55.006	-10.0	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.539	-1.1	98	0.00
82	T	4-Chlorotoluene	50.000	53.545	-7.1	98	0.00
83	T	tert-Butylbenzene	50.000	54.352	-8.7	96	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.758	-9.5	98	0.00
85	T	sec-Butylbenzene	50.000	54.992	-10.0	98	0.00
86	T	p-Isopropyltoluene	50.000	55.154	-10.3	97	0.00
87	T	1,3-Dichlorobenzene	50.000	52.476	-5.0	98	0.00
88	T	1,4-Dichlorobenzene	50.000	51.874	-3.7	98	0.00
89	T	n-Butylbenzene	50.000	54.099	-8.2	96	0.00
90	T	Hexachloroethane	50.000	53.282	-6.6	100	0.00
91	T	1,2-Dichlorobenzene	50.000	52.725	-5.5	99	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.998	4.0	93	0.00
93	T	1,2,4-Trichlorobenzene	50.000	50.889	-1.8	94	0.00
94	T	Hexachlorobutadiene	50.000	52.895	-5.8	97	0.00
95	T	Naphthalene	50.000	48.113	3.8	88	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023495.D
Acq On : 20 Oct 2025 09:10
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: Oct 21 03:53:17 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	50.310	-0.6	93	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: AECO02
Lab Code: ACE
SDG No.: Q3393
Instrument ID: MSVOA_Y
Calibration Date/Time: 10/21/2025 09:05
Lab File ID: VY023521.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	0.323		-10.28	20
Chloromethane	0.490	0.450	0.1	-8.16	20
Vinyl Chloride	0.639	0.605		-5.32	20
Bromomethane	0.536	0.513		-4.29	20
Chloroethane	0.435	0.447		2.76	20
Trichlorofluoromethane	0.887	0.883		-0.45	20
1,1,2-Trichlorotrifluoroethane	0.460	0.490		6.52	20
1,1-Dichloroethene	0.446	0.455		2.02	20
Acetone	0.100	0.113		13	20
Carbon Disulfide	1.277	1.260		-1.33	20
Methyl tert-butyl Ether	1.072	1.116		4.1	20
Methyl Acetate	0.261	0.303		16.09	20
Methylene Chloride	0.538	0.509		-5.39	20
trans-1,2-Dichloroethene	0.491	0.520		5.91	20
1,1-Dichloroethane	0.796	0.840	0.1	5.53	20
Cyclohexane	0.696	0.643		-7.61	20
2-Butanone	0.122	0.124		1.64	20
Carbon Tetrachloride	0.493	0.562		14	20
cis-1,2-Dichloroethene	0.567	0.614		8.29	20
Bromochloromethane	0.297	0.269		-9.43	20
Chloroform	0.875	0.960		9.71	20
1,1,1-Trichloroethane	0.795	0.859		8.05	20
Methylcyclohexane	0.530	0.568		7.17	20
Benzene	1.288	1.448		12.42	20
1,2-Dichloroethane	0.332	0.360		8.43	20
Trichloroethene	0.377	0.421		11.67	20
1,2-Dichloropropane	0.285	0.320		12.28	20
Bromodichloromethane	0.453	0.522		15.23	20
4-Methyl-2-Pentanone	0.166	0.186		12.05	20
Toluene	0.836	0.967		15.67	20
t-1,3-Dichloropropene	0.394	0.441		11.93	20
cis-1,3-Dichloropropene	0.465	0.524		12.69	20
1,1,2-Trichloroethane	0.242	0.285		17.77	20
2-Hexanone	0.119	0.135		13.44	20
Dibromochloromethane	0.339	0.403		18.88	20
1,2-Dibromoethane	0.231	0.269		16.45	20
Tetrachloroethene	0.516	0.575		11.43	20
Chlorobenzene	1.087	1.181	0.3	8.65	20

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

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	AECO02
Lab Code:	ACE	SDG No.:	Q3393
Instrument ID:	MSVOA_Y	Calibration Date/Time:	10/21/2025 09:05
Lab File ID:	VY023521.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	1.961		11.42	20
m/p-Xylenes	0.706	0.799		13.17	20
o-Xylene	0.662	0.739		11.63	20
Styrene	1.089	1.261		15.79	20
Bromoform	0.240	0.269	0.1	12.08	20
Isopropylbenzene	3.295	3.640		10.47	20
1,1,2,2-Tetrachloroethane	0.539	0.571	0.3	5.94	20
1,3-Dichlorobenzene	1.706	1.887		10.61	20
1,4-Dichlorobenzene	1.685	1.813		7.6	20
1,2-Dichlorobenzene	1.496	1.634		9.23	20
1,2-Dibromo-3-Chloropropane	0.088	0.088		0	20
1,2,4-Trichlorobenzene	0.932	0.982		5.36	20
1,2,3-Trichlorobenzene	0.808	0.843		4.33	20
1,2-Dichloroethane-d4	0.418	0.408		-2.39	20
Dibromofluoromethane	0.307	0.331		7.82	20
Toluene-d8	1.144	1.218		6.47	20
4-Bromofluorobenzene	0.378	0.405		7.14	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\VY102125\
Data File : VY023521.D
Acq On : 21 Oct 2025 09:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 01:20:49 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 :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	499961	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	698196	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	642915	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	341616	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	203881	48.767	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 97.540%			
35) Dibromofluoromethane	7.640	113	231392	53.936	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.880%			
50) Toluene-d8	10.109	98	850239	53.217	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 106.440%			
62) 4-Bromofluorobenzene	12.408	95	283018	53.656	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 107.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	161266	44.813	ug/l	99
3) Chloromethane	2.074	50	225042	45.905	ug/l	98
4) Vinyl Chloride	2.208	62	302535	47.380	ug/l	98
5) Bromomethane	2.599	94	256539	47.876	ug/l	99
6) Chloroethane	2.739	64	223248	51.292	ug/l	98
7) Trichlorofluoromethane	3.062	101	441619	49.812	ug/l	100
8) Diethyl Ether	3.458	74	116040	50.089	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.818	101	245222	53.302	ug/l	100
10) Methyl Iodide	4.013	142	289234	56.473	ug/l	100
11) Tert butyl alcohol	4.848	59	86251	277.313	ug/l	97
12) 1,1-Dichloroethene	3.793	96	227578	51.029	ug/l	97
13) Acrolein	3.653	56	37204	84.654	ug/l	97
14) Allyl chloride	4.391	41	261207	48.058	ug/l	97
15) Acrylonitrile	5.062	53	233934	263.862	ug/l	99
16) Acetone	3.867	43	282507	283.840	ug/l	100
17) Carbon Disulfide	4.110	76	629852	49.345	ug/l	99
18) Methyl Acetate	4.385	43	151375	57.978	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	557973	52.056	ug/l	97
20) Methylene Chloride	4.616	84	254490	47.285	ug/l	98
21) trans-1,2-Dichloroethene	5.116	96	259786	52.909	ug/l	97
22) Diisopropyl ether	6.025	45	622406	51.770	ug/l	98
23) Vinyl Acetate	5.964	43	1615658	248.276	ug/l	96
24) 1,1-Dichloroethane	5.921	63	420141	52.756	ug/l	98
25) 2-Butanone	6.897	43	310606	255.620	ug/l	99
26) 2,2-Dichloropropane	6.890	77	391432	53.566	ug/l	99
27) cis-1,2-Dichloroethene	6.897	96	307121	54.150	ug/l	96
28) Bromochloromethane	7.250	49	134434	45.218	ug/l	95
29) Tetrahydrofuran	7.262	42	171000	248.167	ug/l	94
30) Chloroform	7.427	83	479911	54.848	ug/l	100
31) Cyclohexane	7.707	56	321670	46.252	ug/l	94
32) 1,1,1-Trichloroethane	7.622	97	429628	54.031	ug/l	100
36) 1,1-Dichloropropene	7.841	75	318835	56.137	ug/l	100
37) Ethyl Acetate	6.988	43	120965	53.760	ug/l	99
38) Carbon Tetrachloride	7.823	117	392576	57.004	ug/l	98
39) Methylcyclohexane	9.110	83	396680	53.642	ug/l	100
40) Benzene	8.085	78	1010667	56.189	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023521.D
Acq On : 21 Oct 2025 09:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 01:20:49 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 :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.220	41	56462	46.396	ug/l	#	88
42) 1,2-Dichloroethane	8.159	62	251229	54.158	ug/l		98
43) Isopropyl Acetate	8.201	43	231909	51.687	ug/l	#	85
44) Trichloroethene	8.866	130	294037	55.852	ug/l		99
45) 1,2-Dichloropropane	9.140	63	223488	56.253	ug/l		98
46) Dibromomethane	9.232	93	146935	58.489	ug/l		98
47) Bromodichloromethane	9.427	83	364567	57.621	ug/l		98
48) Methyl methacrylate	9.225	41	110852	52.590	ug/l		94
49) 1,4-Dioxane	9.225	88	30619	1051.234	ug/l		97
51) 4-Methyl-2-Pentanone	10.000	43	649884	280.345	ug/l		99
52) Toluene	10.170	92	675233	57.818	ug/l		99
53) t-1,3-Dichloropropene	10.396	75	307992	55.984	ug/l		98
54) cis-1,3-Dichloropropene	9.859	75	366195	56.399	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	198692	58.815	ug/l		95
56) Ethyl methacrylate	10.439	69	222590	57.121	ug/l		97
57) 1,3-Dichloropropane	10.719	76	307111	57.370	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	488816	280.014	ug/l		99
59) 2-Hexanone	10.762	43	472202	285.033	ug/l		99
60) Dibromochloromethane	10.914	129	281057	59.341	ug/l		100
61) 1,2-Dibromoethane	11.018	107	187844	58.304	ug/l		100
64) Tetrachloroethene	10.646	164	369674	55.688	ug/l		99
65) Chlorobenzene	11.445	112	759409	54.309	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.518	131	280381	56.268	ug/l		99
67) Ethyl Benzene	11.518	91	1261040	55.713	ug/l		99
68) m/p-Xylenes	11.627	106	1027756	113.207	ug/l		99
69) o-Xylene	11.957	106	475420	55.830	ug/l		99
70) Styrene	11.969	104	810694	57.893	ug/l		99
71) Bromoform	12.133	173	173149	56.019	ug/l	#	98
73) Isopropylbenzene	12.255	105	1243608	55.240	ug/l		100
74) N-amyl acetate	12.072	43	202085	49.976	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	195187	53.009	ug/l		99
76) 1,2,3-Trichloropropane	12.560	75	151087m	50.129	ug/l		
77) Bromobenzene	12.530	156	324603	54.235	ug/l		99
78) n-propylbenzene	12.597	91	1457896	55.961	ug/l		99
79) 2-Chlorotoluene	12.682	91	830894	54.463	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	1026971	56.451	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	61955	50.407	ug/l		99
82) 4-Chlorotoluene	12.780	91	868701	55.289	ug/l		100
83) tert-Butylbenzene	12.999	119	937982	55.842	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	1024486	56.428	ug/l		100
85) sec-Butylbenzene	13.176	105	1359841	56.437	ug/l		100
86) p-Isopropyltoluene	13.292	119	1176613	57.354	ug/l		100
87) 1,3-Dichlorobenzene	13.286	146	644461	55.296	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	619278	53.800	ug/l		100
89) n-Butylbenzene	13.615	91	1006298	56.295	ug/l		99
90) Hexachloroethane	13.877	117	238499	54.052	ug/l		99
91) 1,2-Dichlorobenzene	13.658	146	558110	54.620	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	29948	49.569	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	335488	52.665	ug/l		99
94) Hexachlorobutadiene	15.023	225	215262	54.210	ug/l		100
95) Naphthalene	15.145	128	523602	51.618	ug/l		100
96) 1,2,3-Trichlorobenzene	15.328	180	288040	52.203	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023521.D
Acq On : 21 Oct 2025 09:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 24 01:20:49 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 :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 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

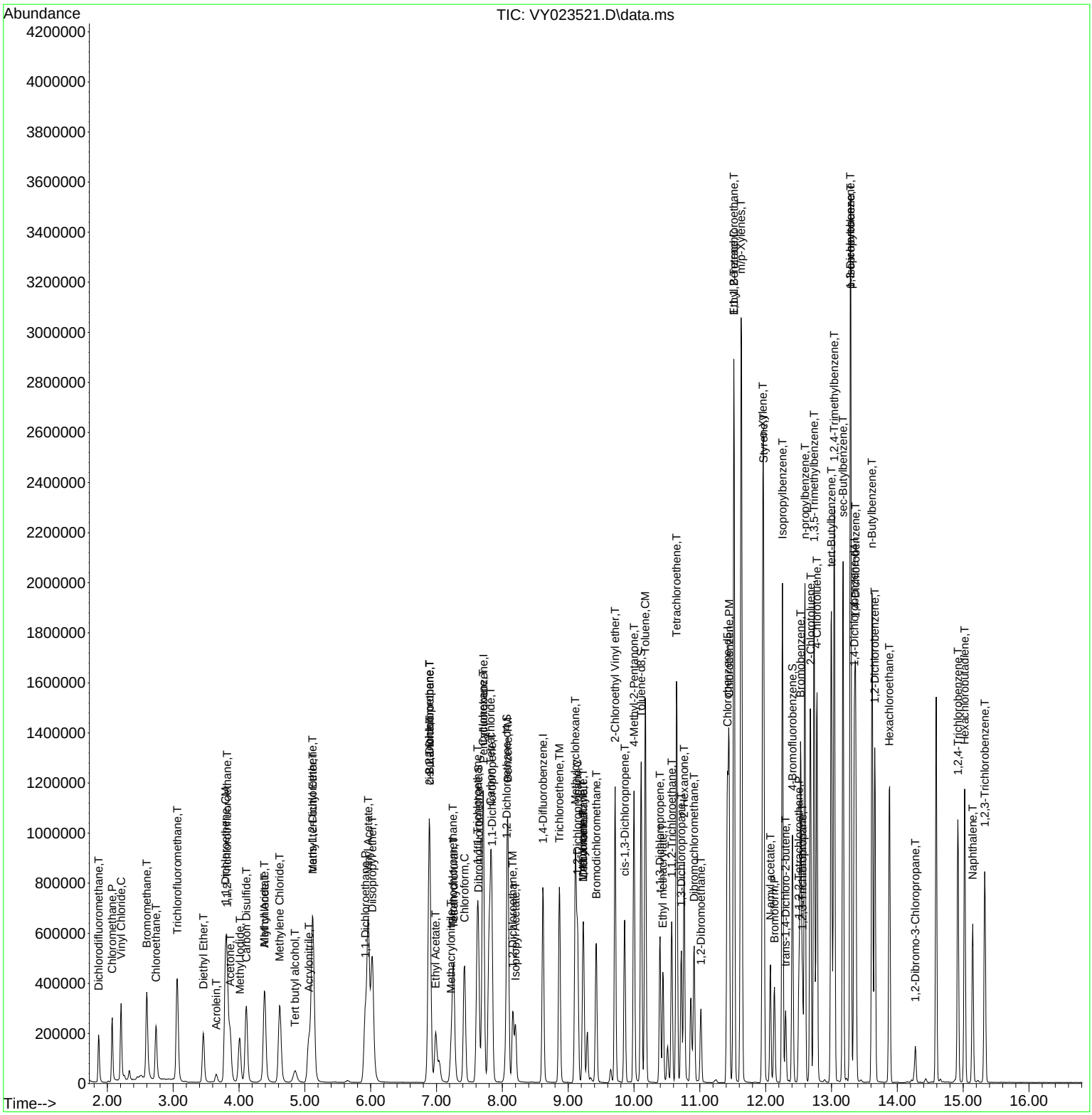
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023521.D
Acq On : 21 Oct 2025 09:05
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

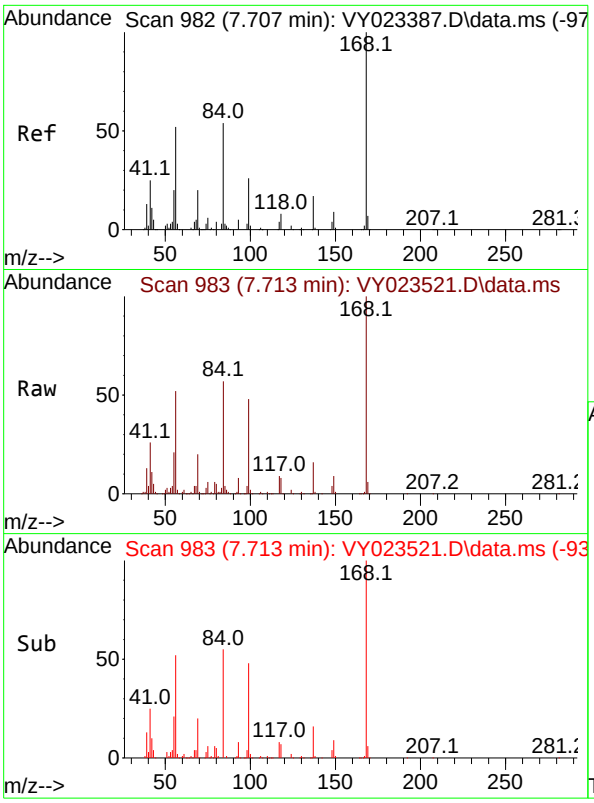
Quant Time: Oct 24 01:20:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

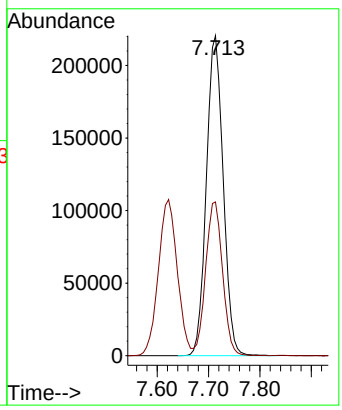




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:168 Resp: 49996

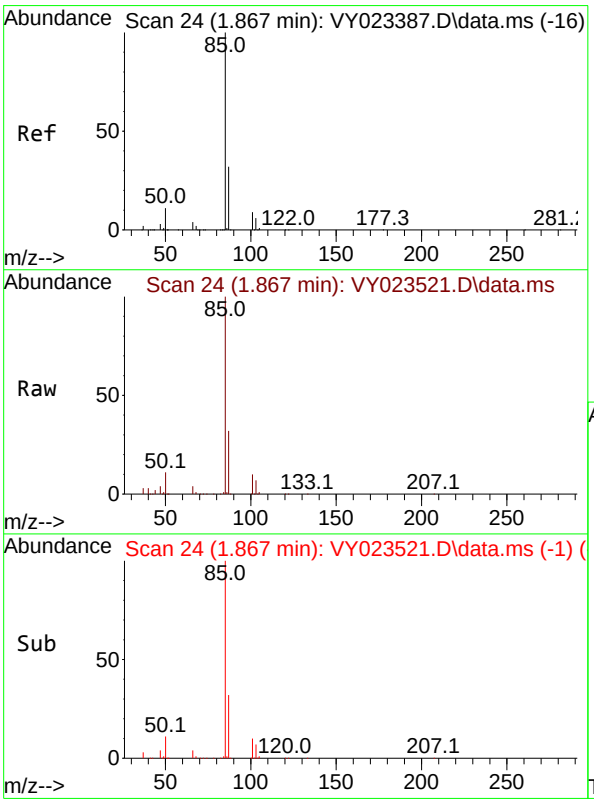
Ion	Ratio	Lower	Upper
168	100		
99	47.9	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

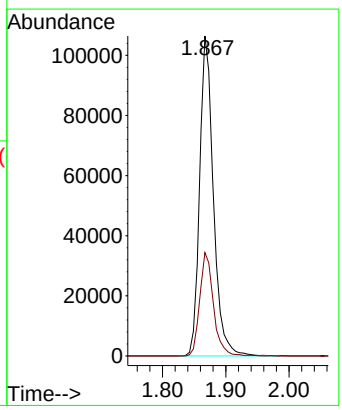
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

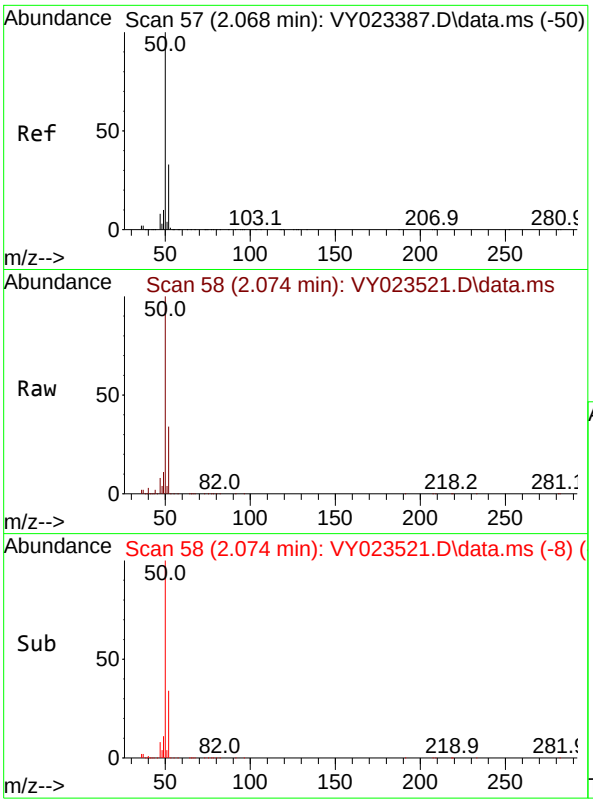


#2
Dichlorodifluoromethane
Concen: 44.813 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 85 Resp: 161266

Ion	Ratio	Lower	Upper
85	100		
87	32.3	16.0	47.9

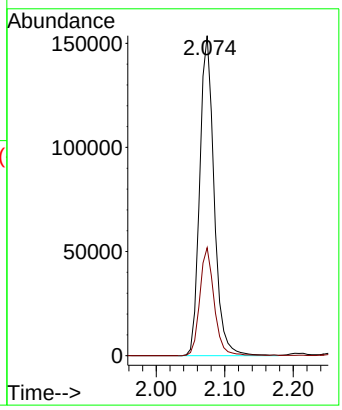




#3
Chloromethane
Concen: 45.905 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 50 Resp: 22504

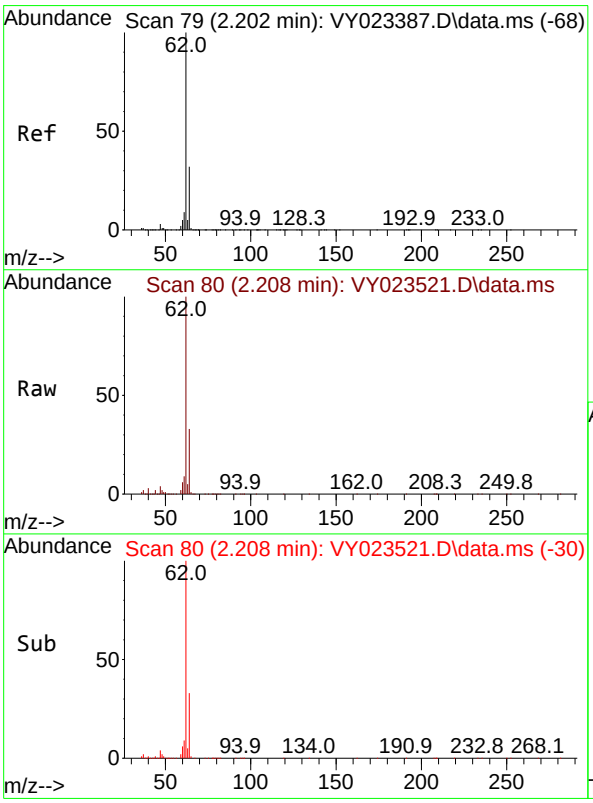
Ion	Ratio	Lower	Upper
50	100		
52	33.8	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

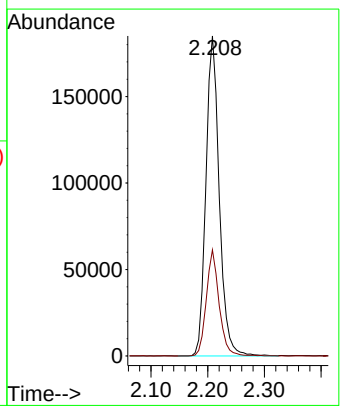
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

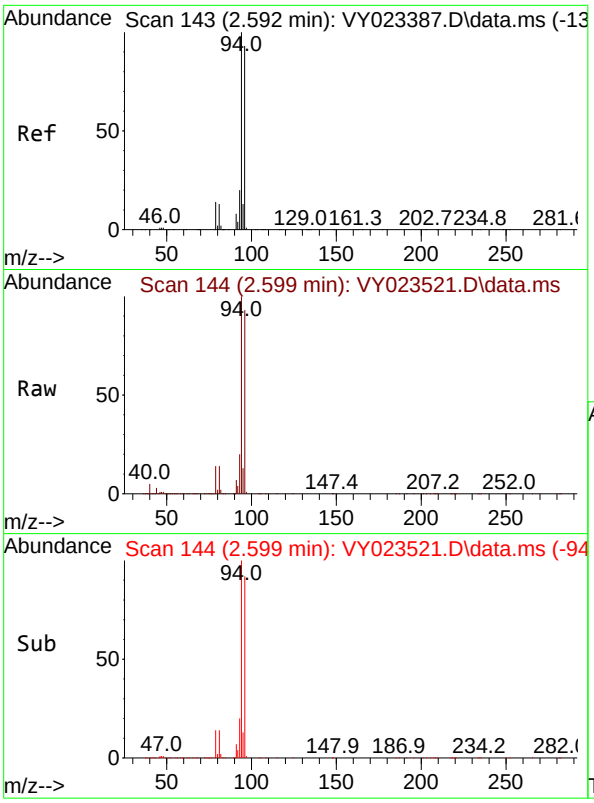


#4
Vinyl Chloride
Concen: 47.380 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 62 Resp: 302535

Ion	Ratio	Lower	Upper
62	100		
64	33.1	25.8	38.8

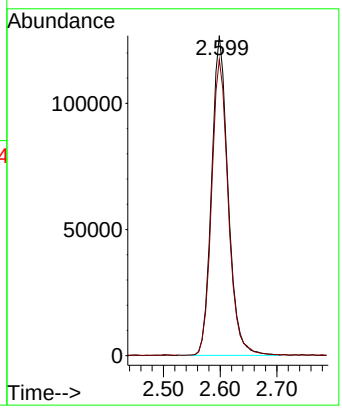




#5
Bromomethane
Concen: 47.876 ug/l
RT: 2.599 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 94 Resp: 25653

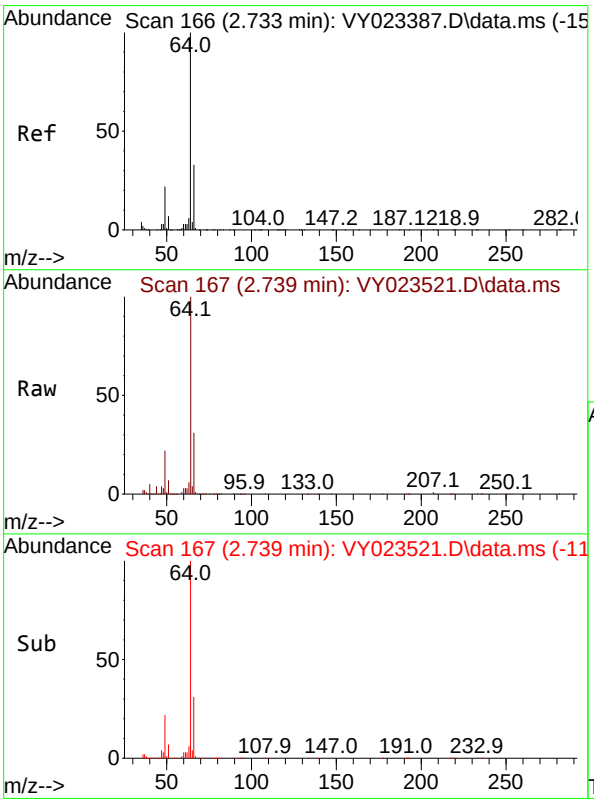
Ion	Ratio	Lower	Upper
94	100		
96	92.4	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

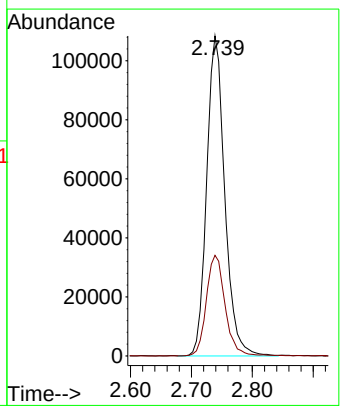
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

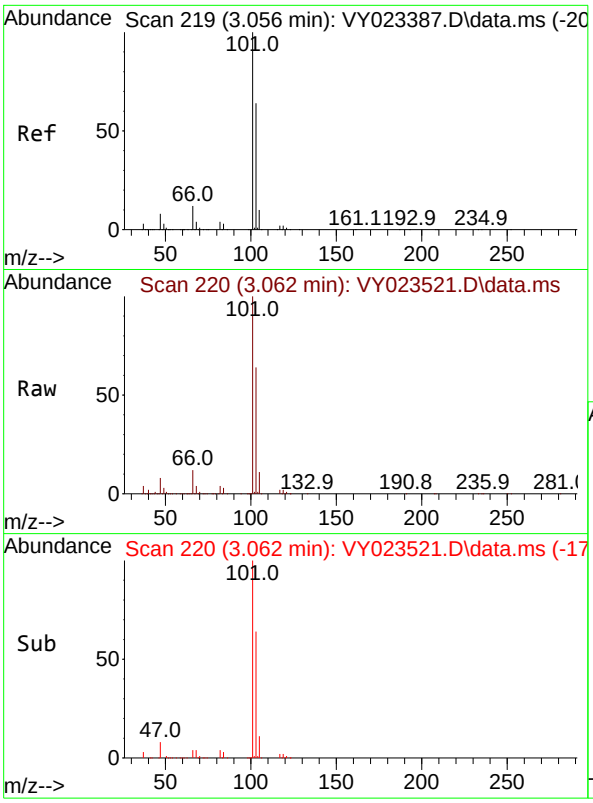


#6
Chloroethane
Concen: 51.292 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 64 Resp: 223248

Ion	Ratio	Lower	Upper
64	100		
66	31.4	26.2	39.4

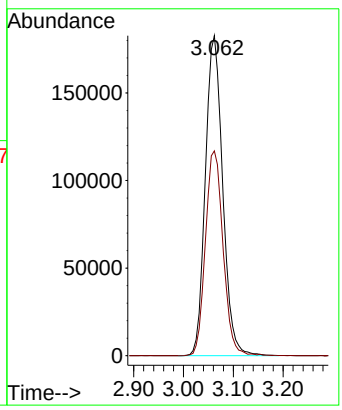




#7
Trichlorofluoromethane
Concen: 49.812 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:101 Resp: 44161

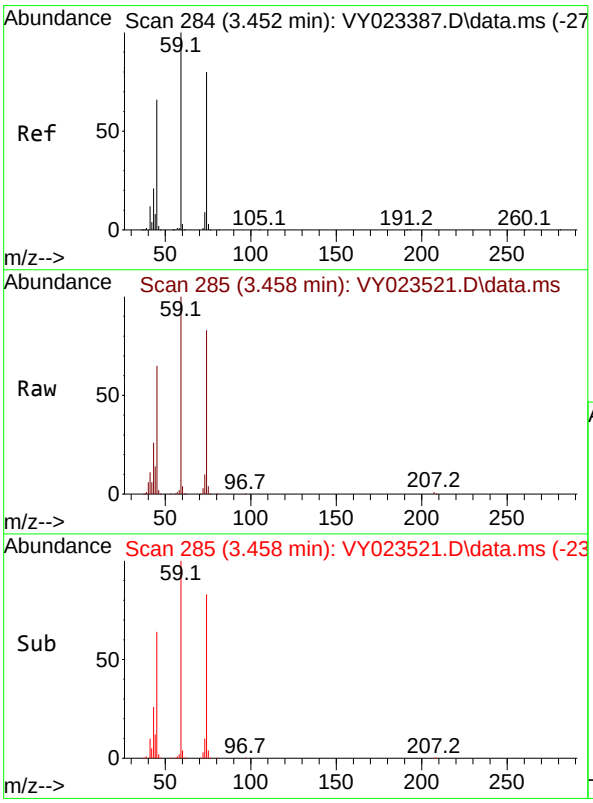
Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

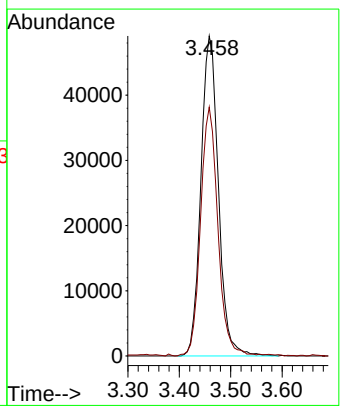
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

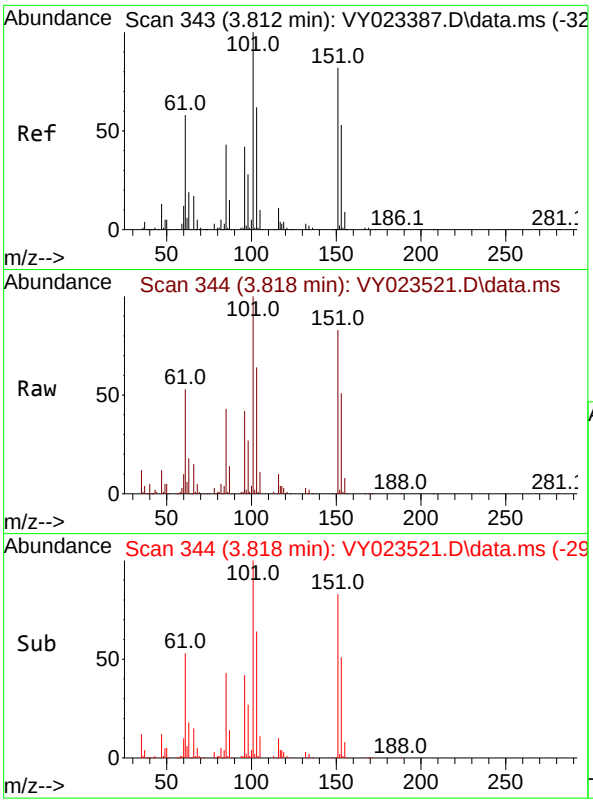


#8
Diethyl Ether
Concen: 50.089 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 74 Resp: 116040

Ion	Ratio	Lower	Upper
74	100		
45	77.2	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.302 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

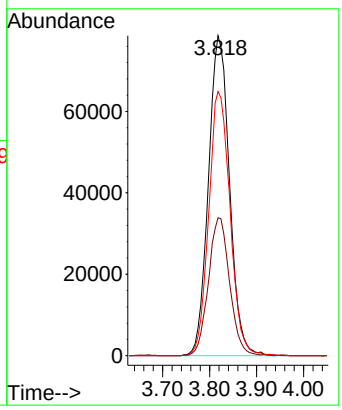
Tgt Ion:101 Resp: 24522

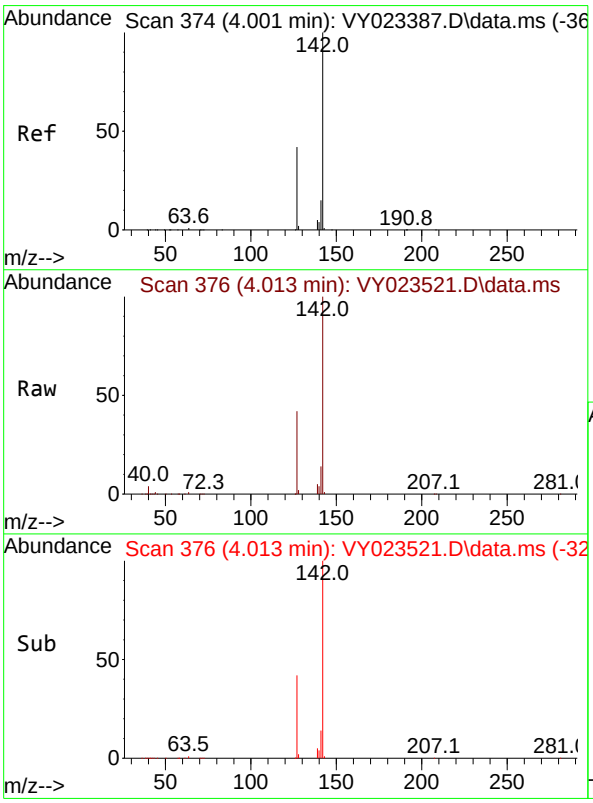
Ion	Ratio	Lower	Upper
101	100		
85	43.3	34.6	51.8
151	83.4	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

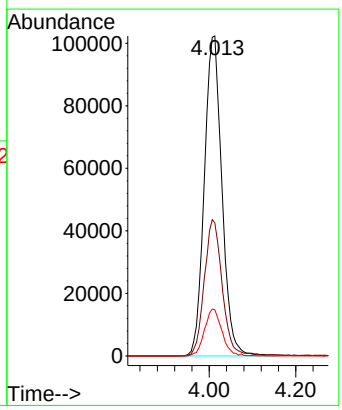


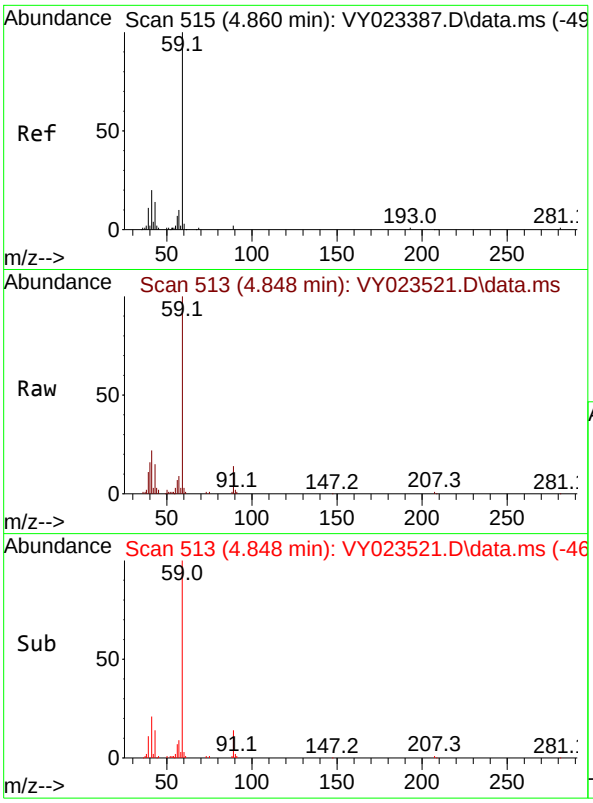


#10
Methyl Iodide
Concen: 56.473 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.012 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:142 Resp: 289234

Ion	Ratio	Lower	Upper
142	100		
127	43.4	34.8	52.2
141	14.5	11.6	17.4

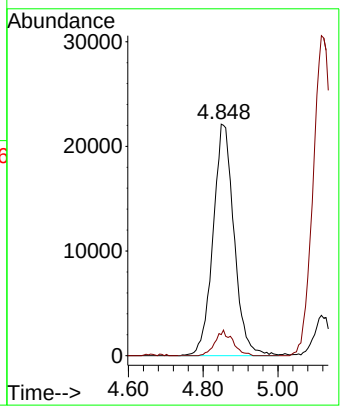




#11
Tert butyl alcohol
Concen: 277.313 ug/l
RT: 4.848 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 59 Resp: 8625

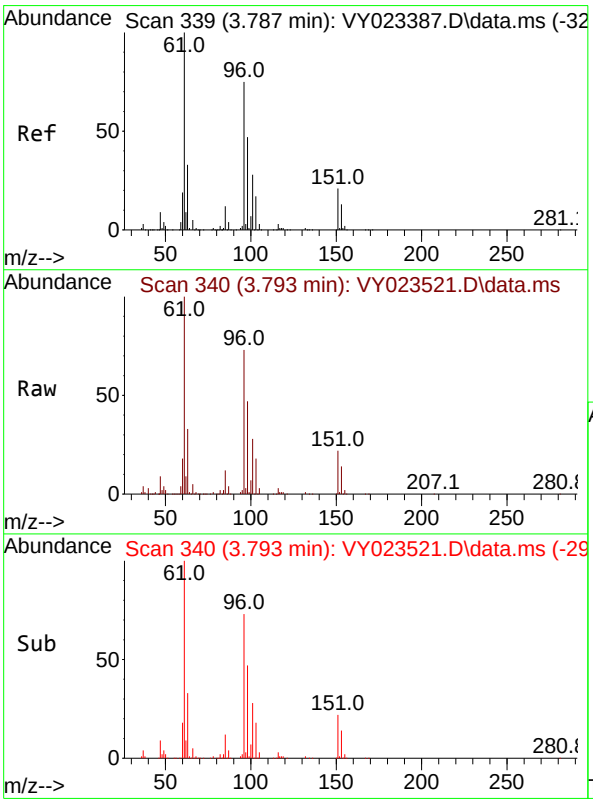
Ion	Ratio	Lower	Upper
59	100		
57	9.3	8.3	12.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

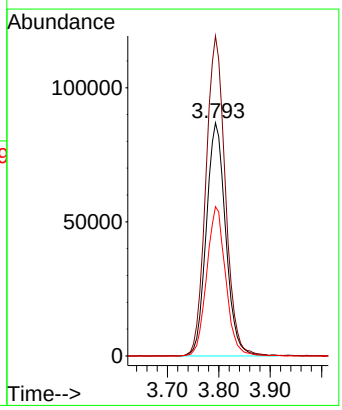
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

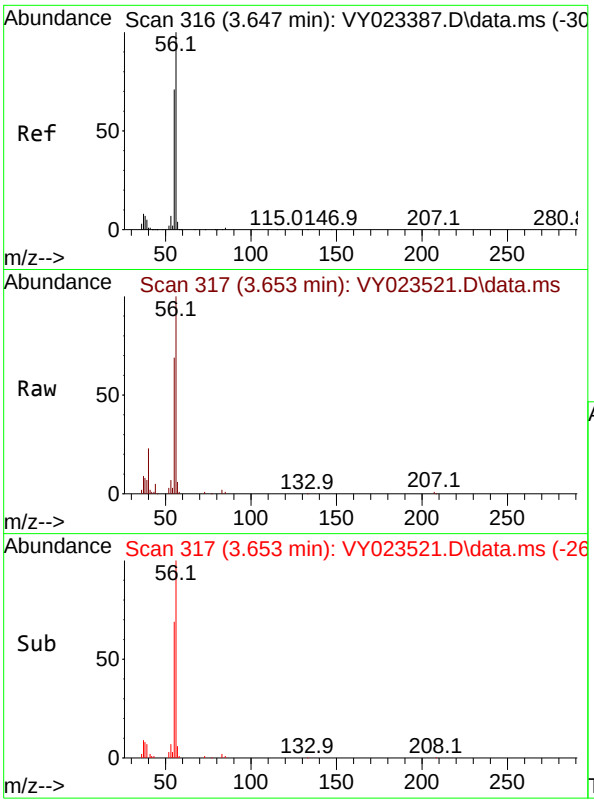


#12
1,1-Dichloroethene
Concen: 51.029 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 96 Resp: 227578

Ion	Ratio	Lower	Upper
96	100		
61	137.2	106.7	160.1
98	64.0	50.2	75.4

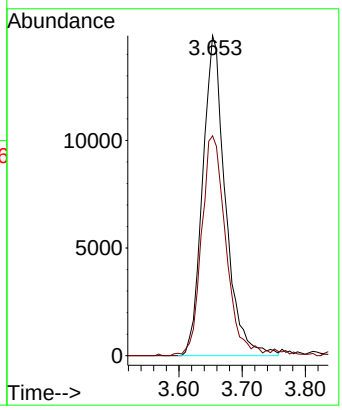




#13
Acrolein
Concen: 84.654 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 56 Resp: 3720

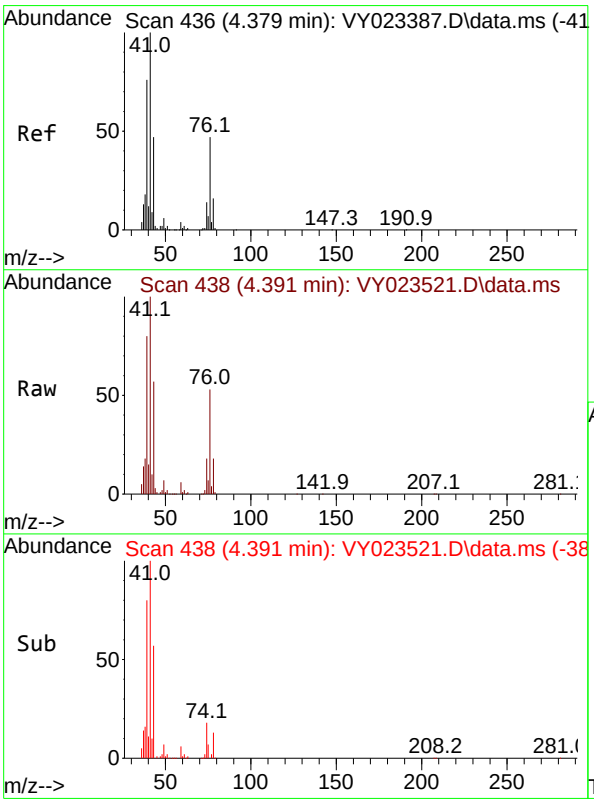
Ion	Ratio	Lower	Upper
56	100		
55	72.9	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

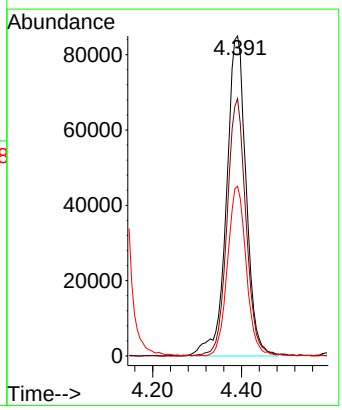
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

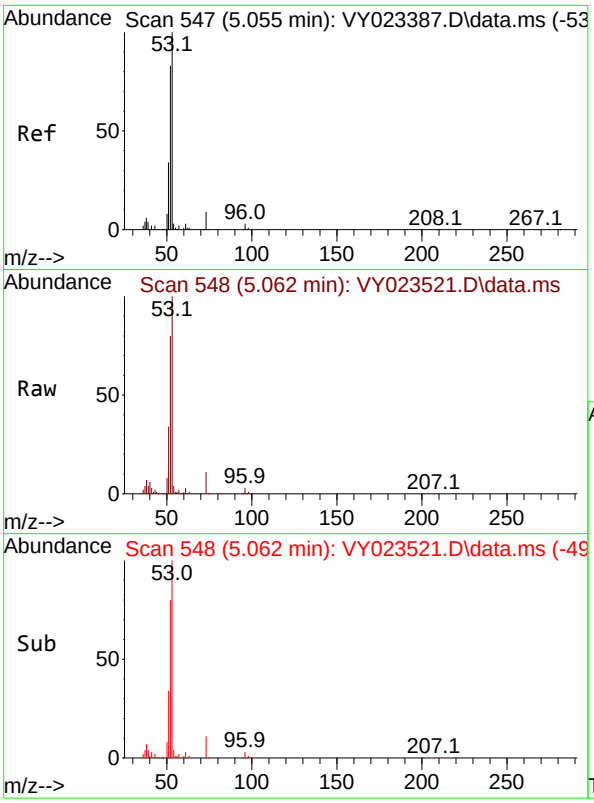


#14
Allyl chloride
Concen: 48.058 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.012 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 41 Resp: 261207

Ion	Ratio	Lower	Upper
41	100		
39	77.4	59.9	89.9
76	50.3	38.0	57.0





#15
Acrylonitrile
Concen: 263.862 ug/l
RT: 5.062 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

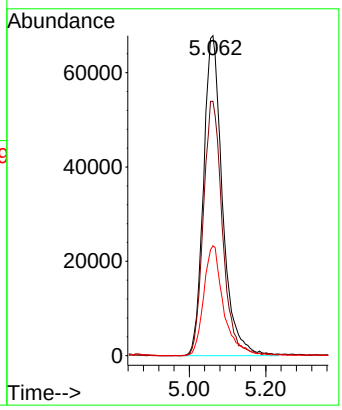
Tgt Ion: 53 Resp: 23393

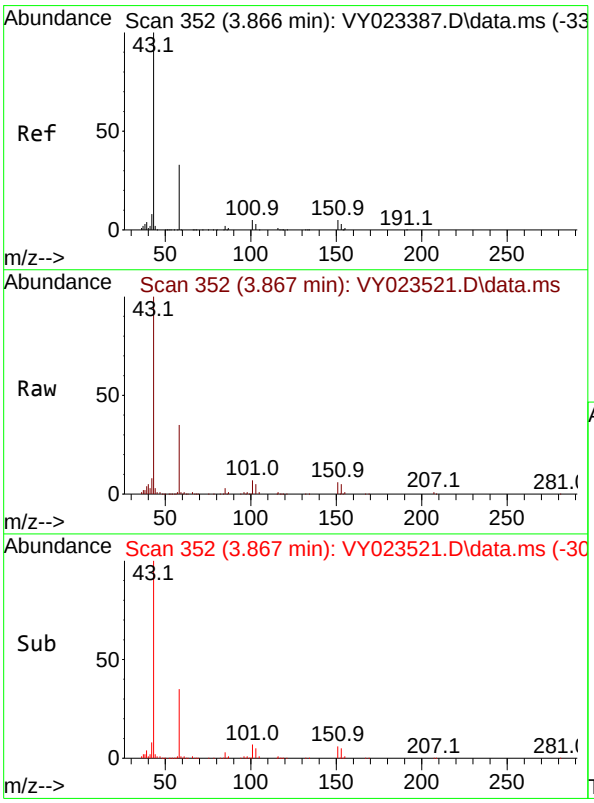
Ion	Ratio	Lower	Upper
53	100		
52	79.4	64.6	97.0
51	36.1	29.5	44.3

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

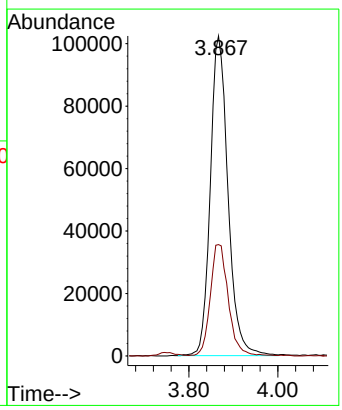


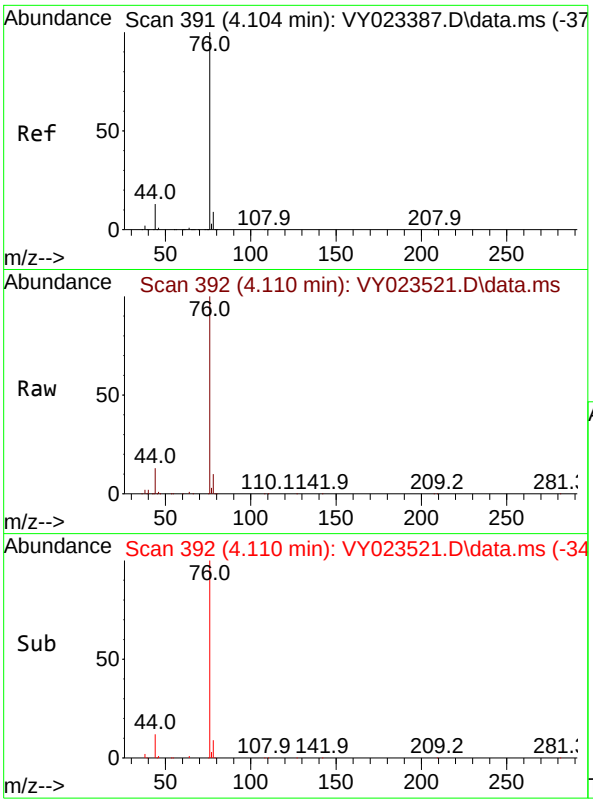


#16
Acetone
Concen: 283.840 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 43 Resp: 282507

Ion	Ratio	Lower	Upper
43	100		
58	34.7	27.7	41.5





#17
Carbon Disulfide
Concen: 49.345 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

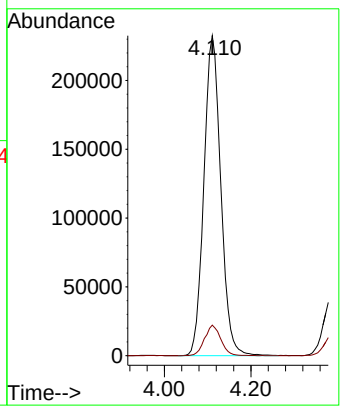
Tgt Ion: 76 Resp: 62985

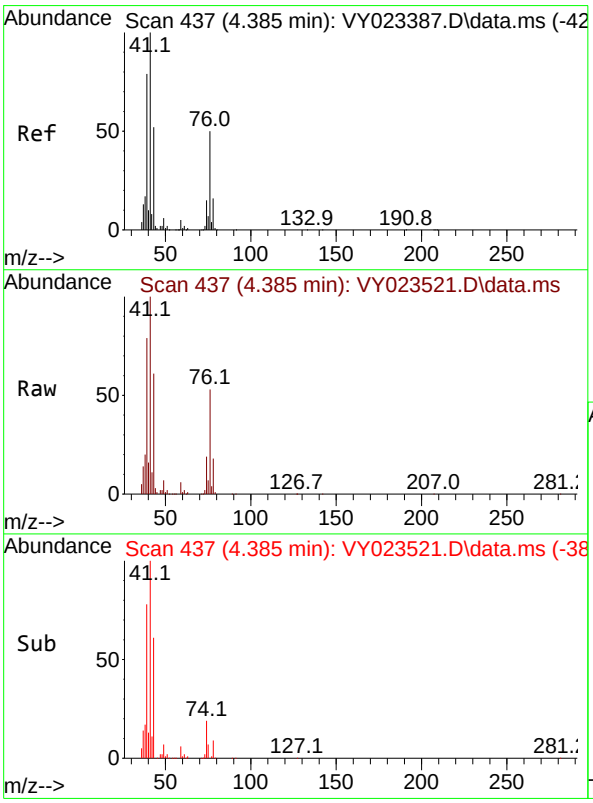
Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.3	10.9

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

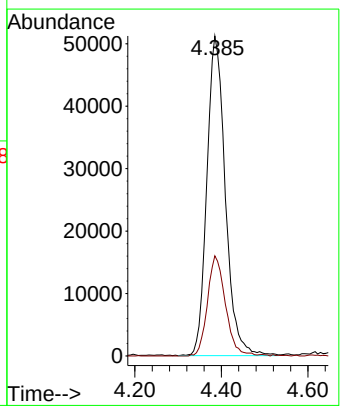


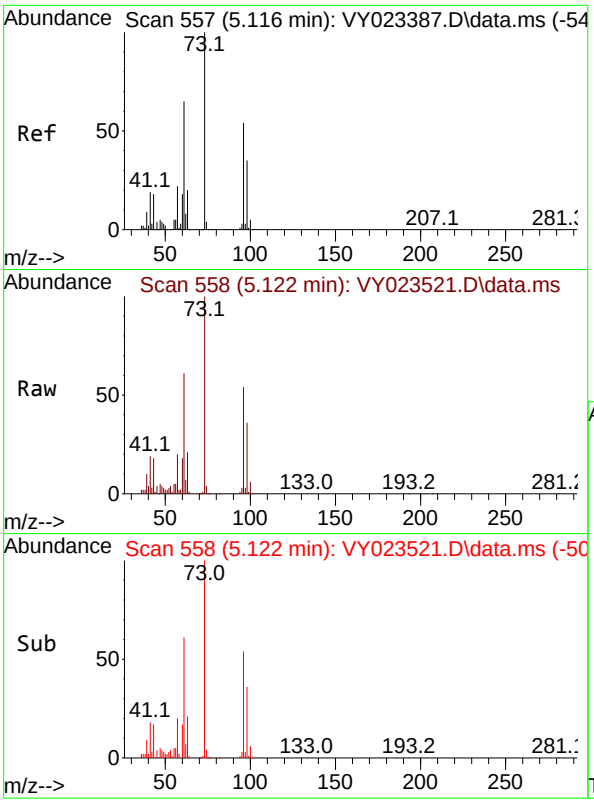


#18
Methyl Acetate
Concen: 57.978 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 43 Resp: 151375

Ion	Ratio	Lower	Upper
43	100		
74	30.5	24.2	36.4

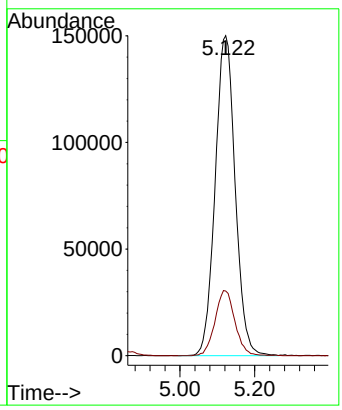




#19
Methyl tert-butyl Ether
Concen: 52.056 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 73 Resp: 55797

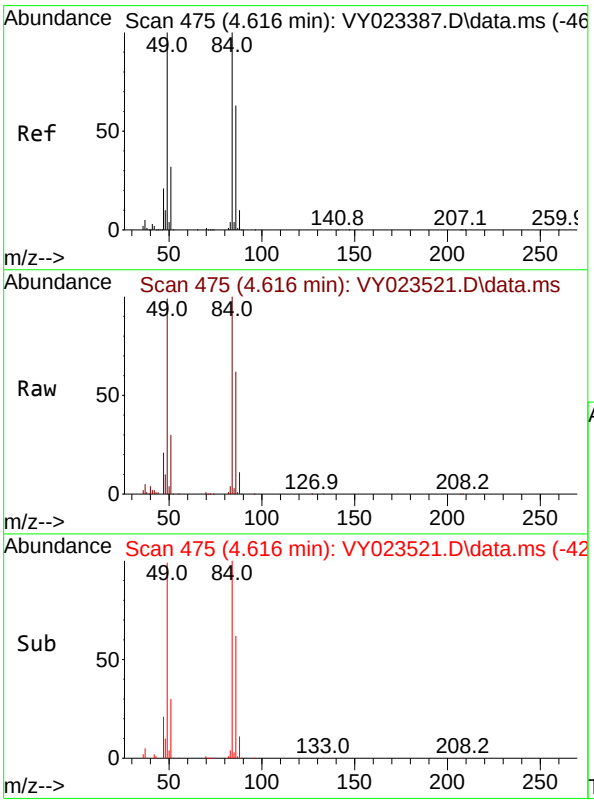
Ion	Ratio	Lower	Upper
73	100		
57	20.2	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

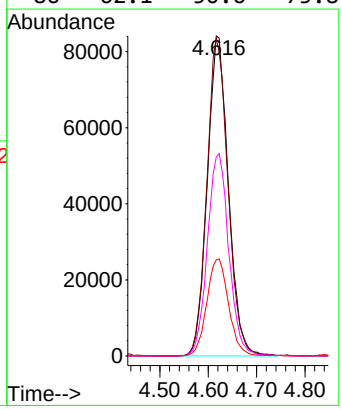
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

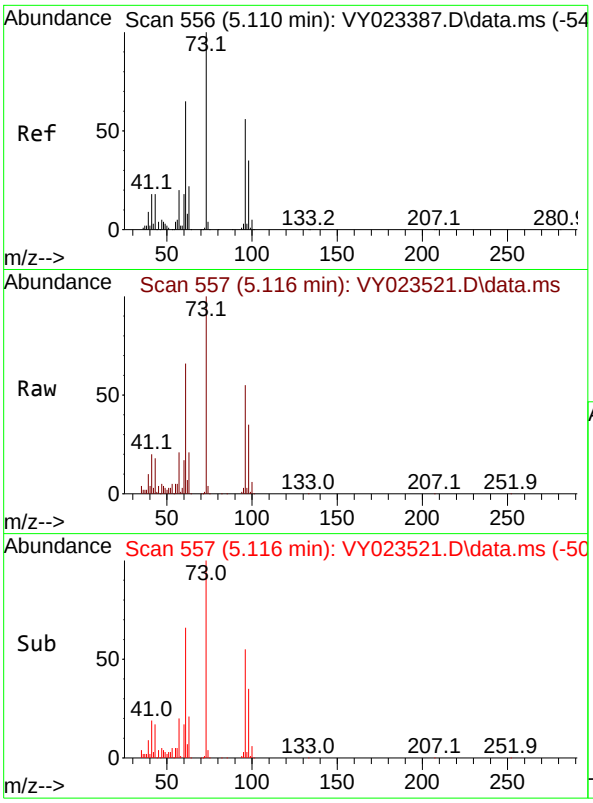


#20
Methylene Chloride
Concen: 47.285 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 84 Resp: 254490

Ion	Ratio	Lower	Upper
84	100		
49	99.2	80.2	120.4
51	30.0	25.9	38.9
86	62.1	50.6	75.8

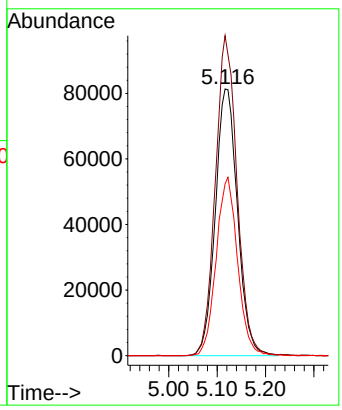




#21
trans-1,2-Dichloroethene
Concen: 52.909 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

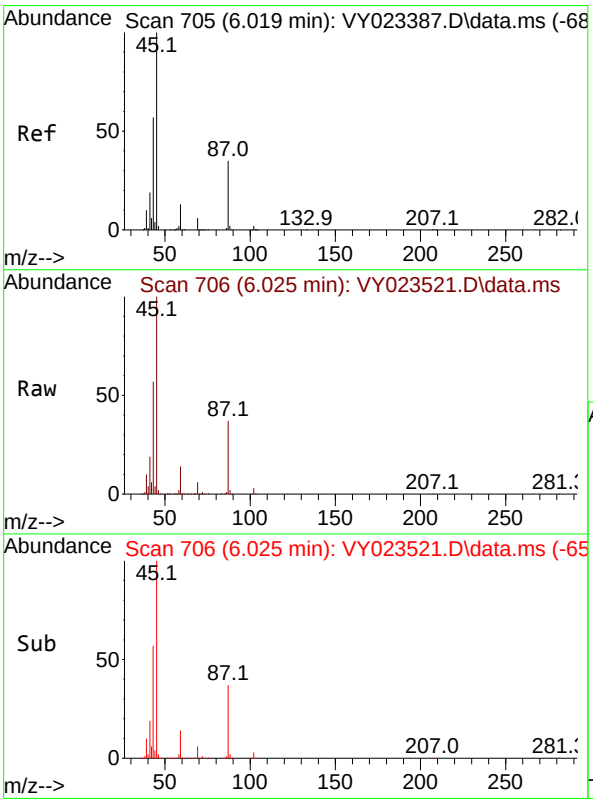
Tgt Ion: 96 Resp: 25978

Ion	Ratio	Lower	Upper
96	100		
61	120.0	92.7	139.1
98	64.4	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

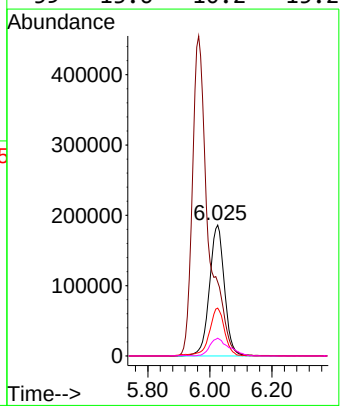
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

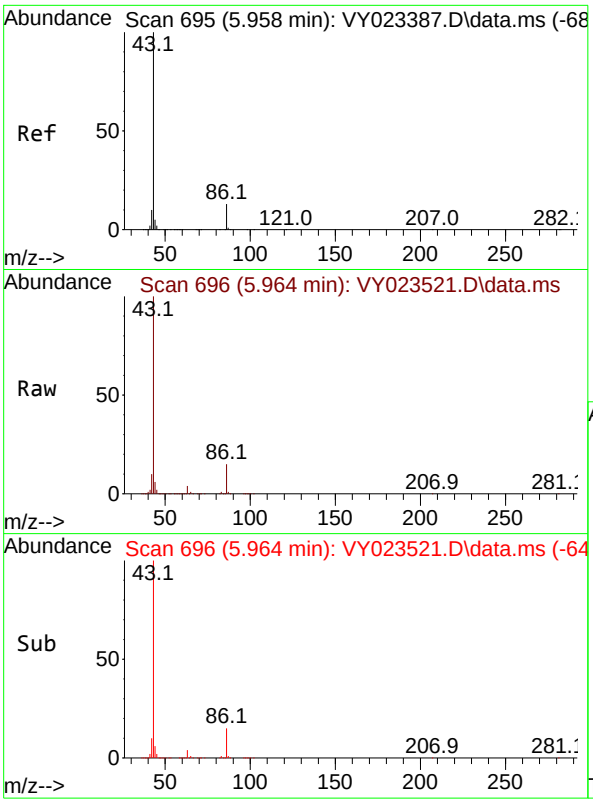


#22
Diisopropyl ether
Concen: 51.770 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 45 Resp: 622406

Ion	Ratio	Lower	Upper
45	100		
43	56.3	45.6	68.4
87	36.6	28.1	42.1
59	13.6	10.2	15.2

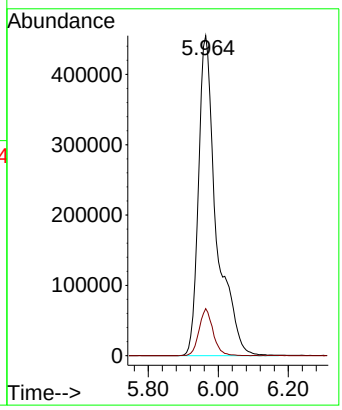




#23
Vinyl Acetate
Concen: 248.276 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

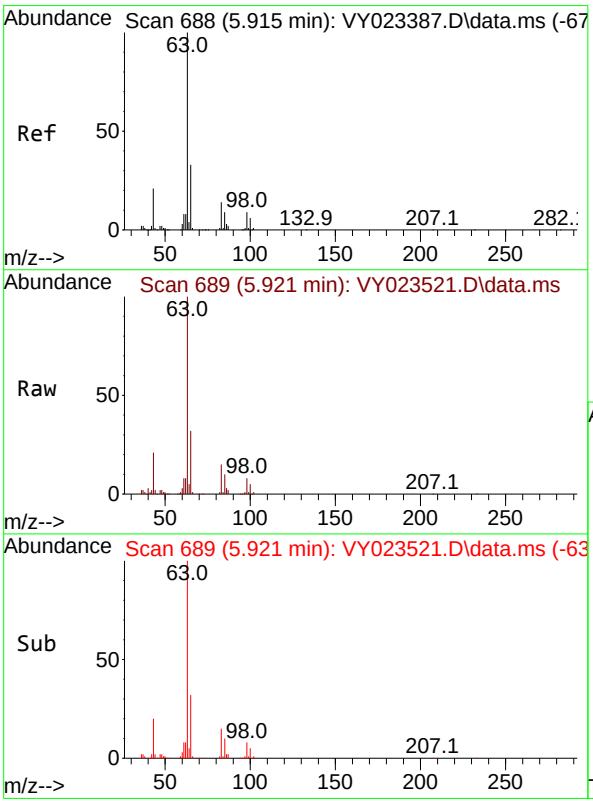
Tgt Ion: 43 Resp: 161565

Ion	Ratio	Lower	Upper
43	100		
86	14.7	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

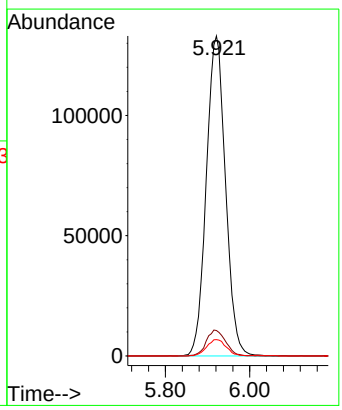
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

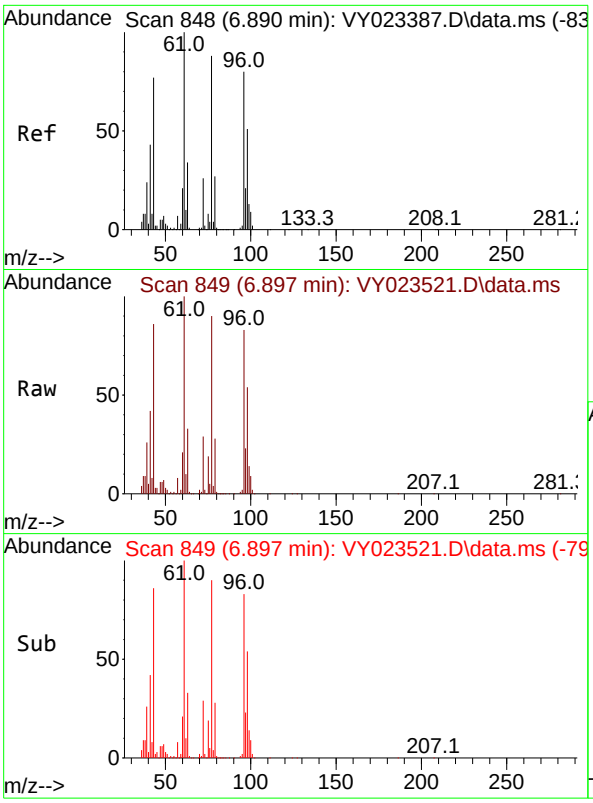


#24
1,1-Dichloroethane
Concen: 52.756 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 63 Resp: 420141

Ion	Ratio	Lower	Upper
63	100		
98	8.0	4.3	13.1
100	5.1	2.8	8.4





#25
2-Butanone
Concen: 255.620 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

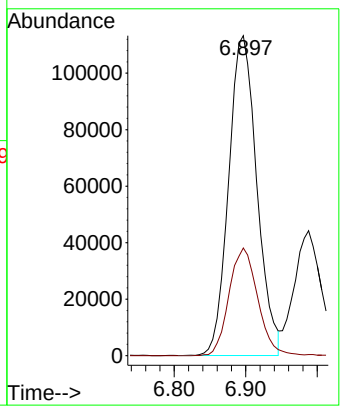
Tgt Ion: 43 Resp: 31060

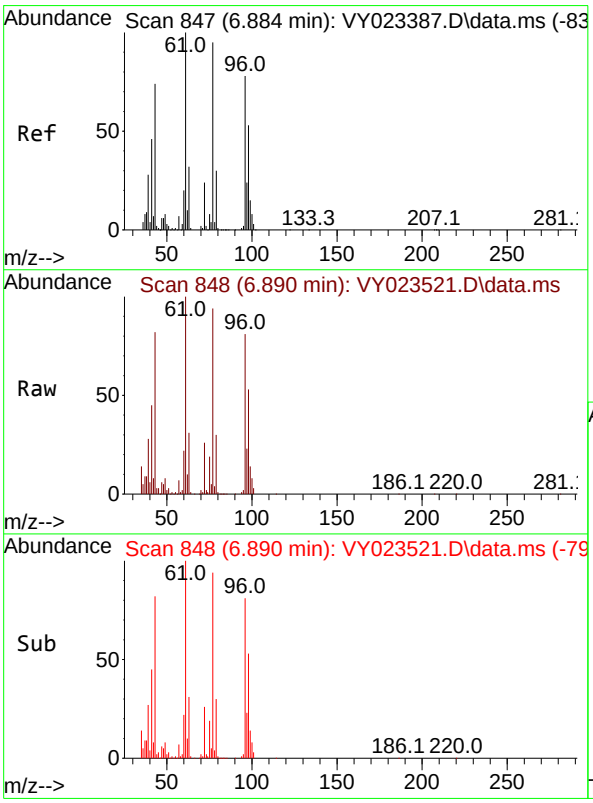
Ion	Ratio	Lower	Upper
43	100		
72	33.6	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

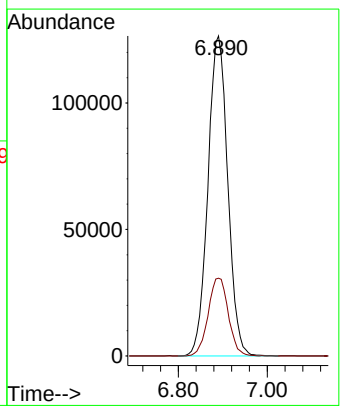


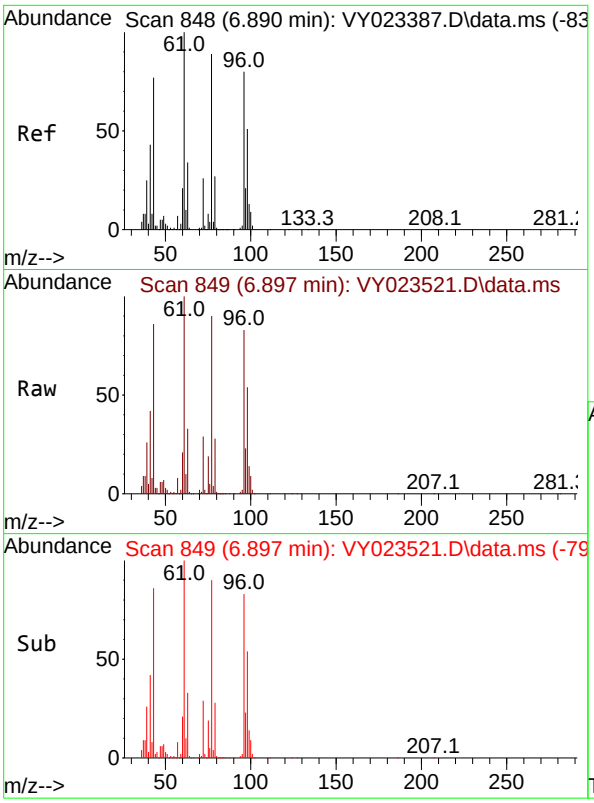


#26
2,2-Dichloropropane
Concen: 53.566 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 77 Resp: 391432

Ion	Ratio	Lower	Upper
77	100		
97	24.7	12.1	36.3

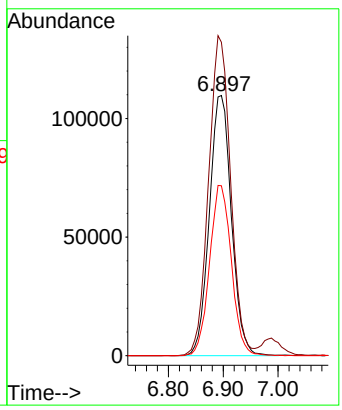




#27
cis-1,2-Dichloroethene
Concen: 54.150 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 96 Resp: 30712

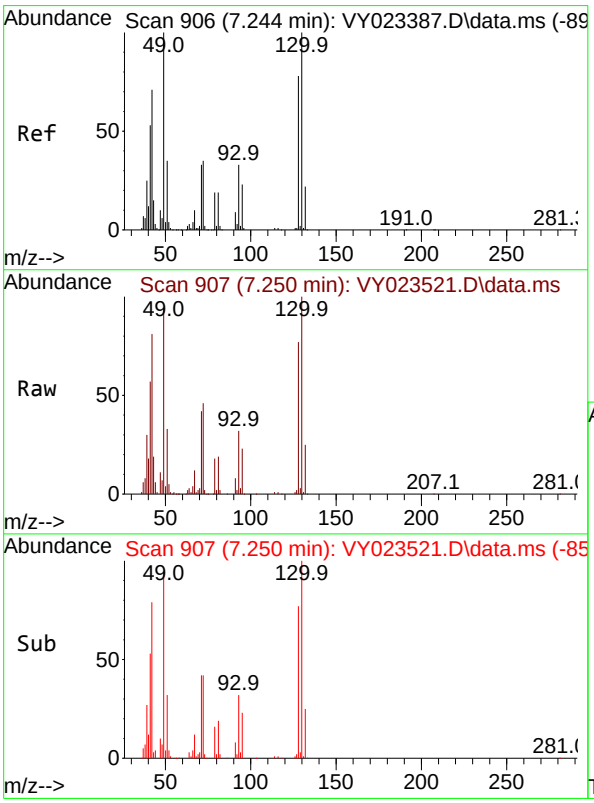
Ion	Ratio	Lower	Upper
96	100		
61	122.6	0.0	258.2
98	64.6	0.0	132.0



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

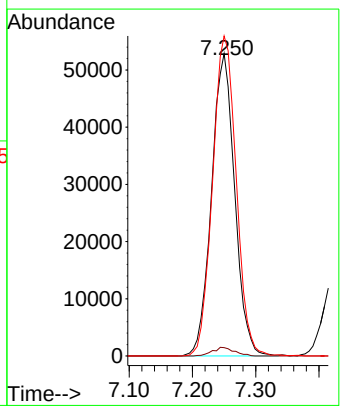
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

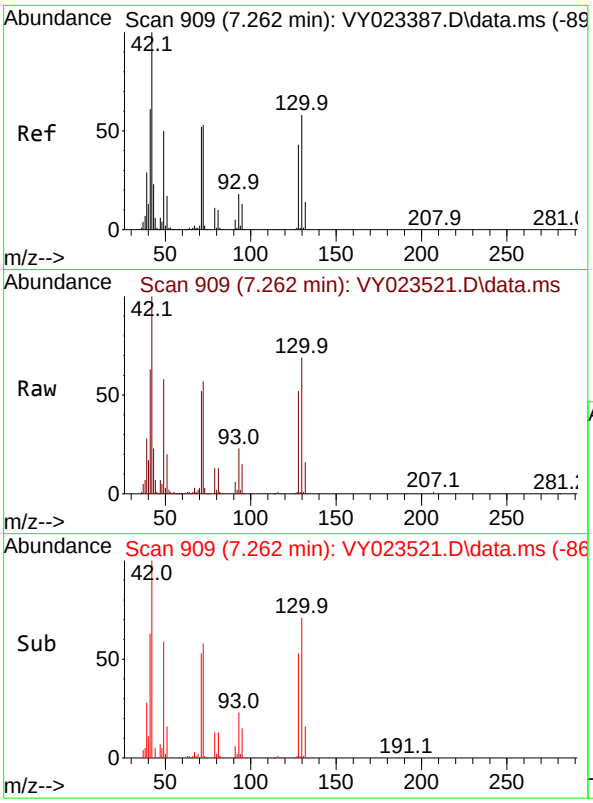


#28
Bromochloromethane
Concen: 45.218 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 49 Resp: 134434

Ion	Ratio	Lower	Upper
49	100		
129	2.7	0.0	5.6
130	107.8	81.9	122.9

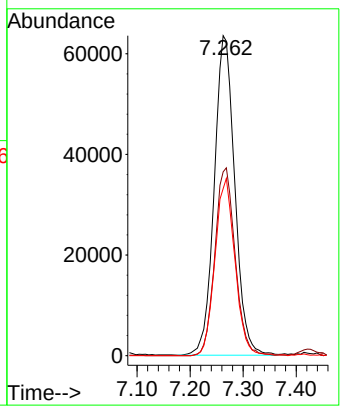




#29
Tetrahydrofuran
Concen: 248.167 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 42 Resp: 17100(

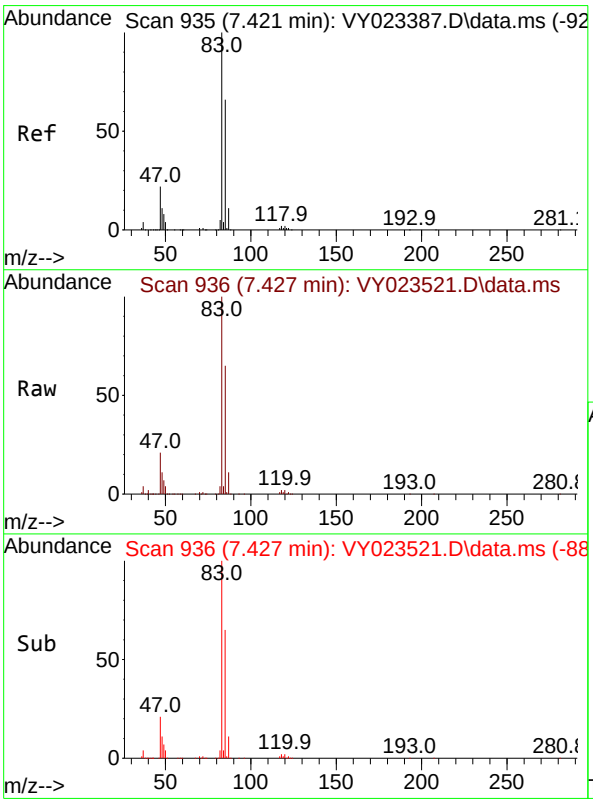
Ion	Ratio	Lower	Upper
42	100		
72	58.1	43.0	64.6
71	54.0	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

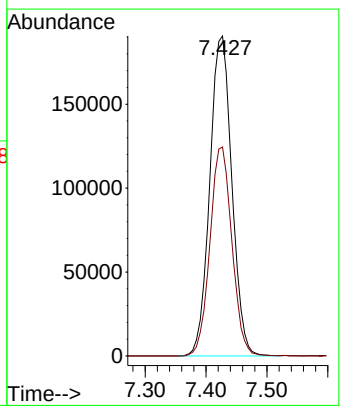
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

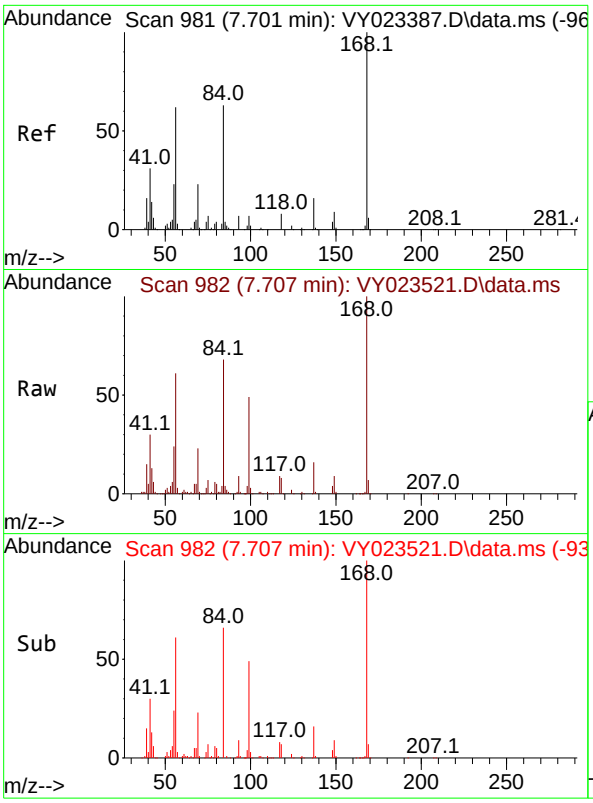


#30
Chloroform
Concen: 54.848 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 83 Resp: 479911

Ion	Ratio	Lower	Upper
83	100		
85	65.3	52.5	78.7

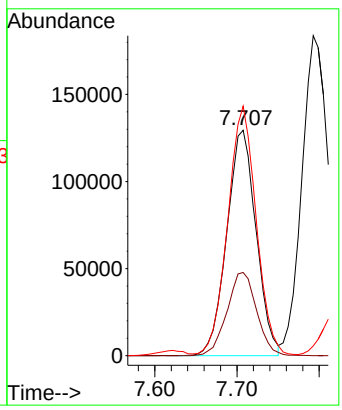




#31
Cyclohexane
Concen: 46.252 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 56 Resp: 32167

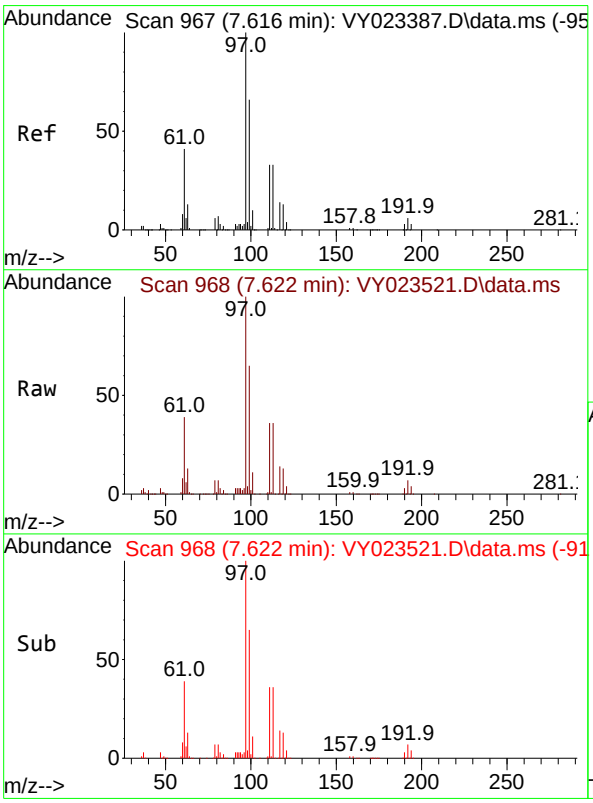
Ion	Ratio	Lower	Upper
56	100		
69	36.9	30.0	45.0
84	108.8	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

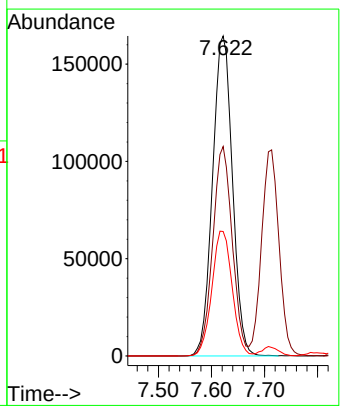
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

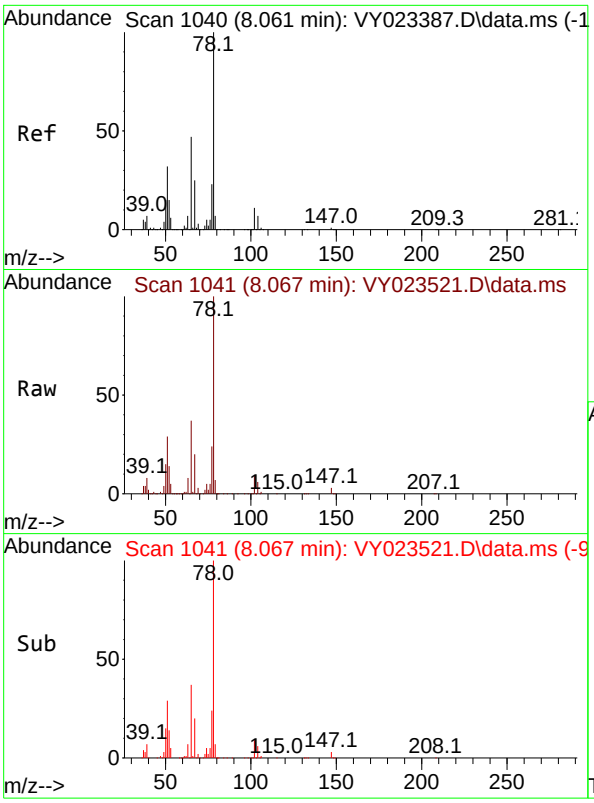


#32
1,1,1-Trichloroethane
Concen: 54.031 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 97 Resp: 429628

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.2
61	39.7	31.9	47.9

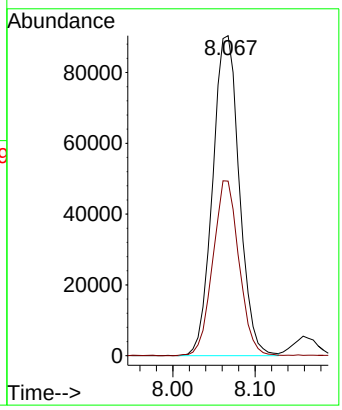




#33
1,2-Dichloroethane-d4
Concen: 48.767 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 65 Resp: 20388

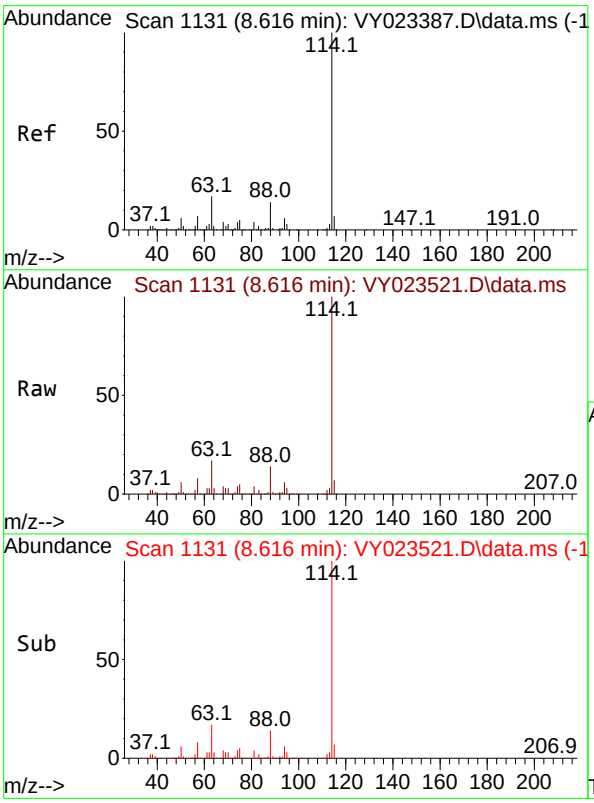
Ion	Ratio	Lower	Upper
65	100		
67	53.7	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

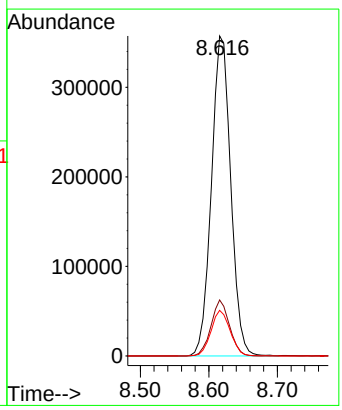
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

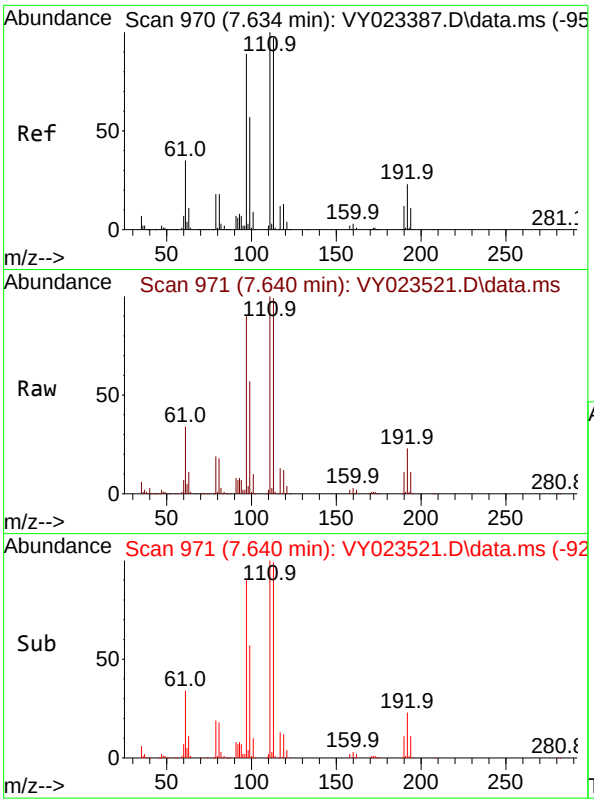


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:114 Resp: 698196

Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	34.2
88	14.2	0.0	28.4





#35
Dibromofluoromethane
Concen: 53.936 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

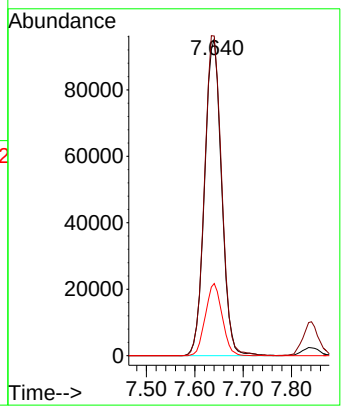
Tgt Ion:113 Resp: 23139

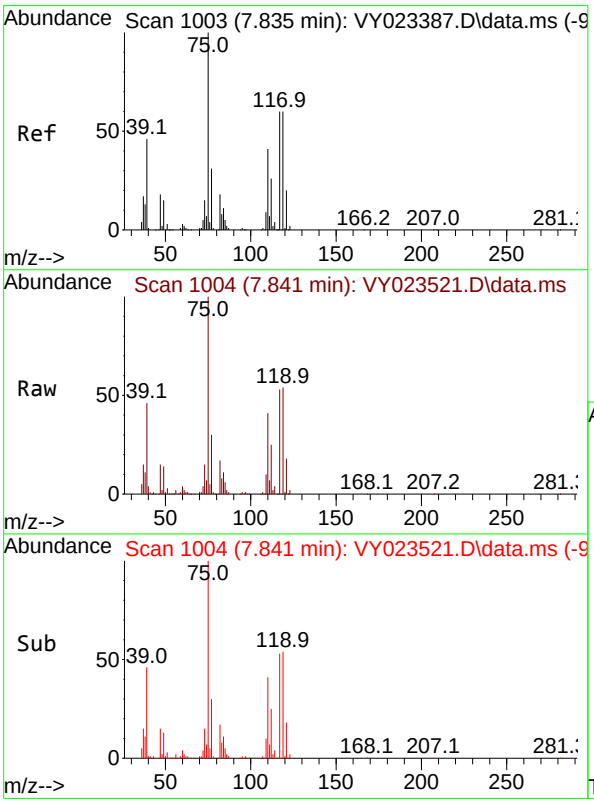
Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.8	122.6
192	22.6	18.0	27.0

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

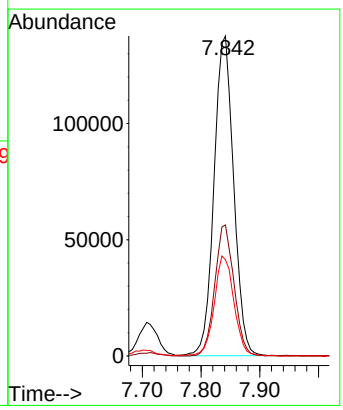


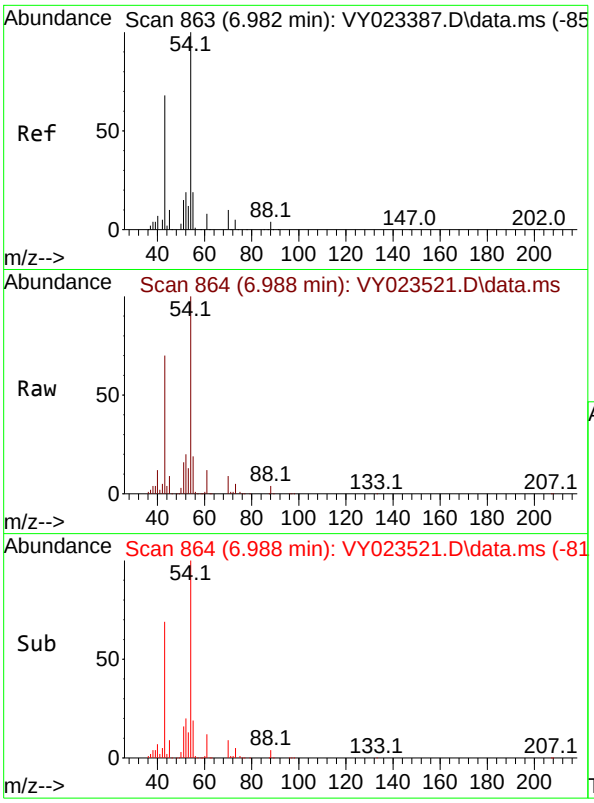


#36
1,1-Dichloropropene
Concen: 56.137 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 75 Resp: 318835

Ion	Ratio	Lower	Upper
75	100		
110	40.1	19.9	59.7
77	31.2	25.0	37.6





#37
Ethyl Acetate
Concen: 53.760 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

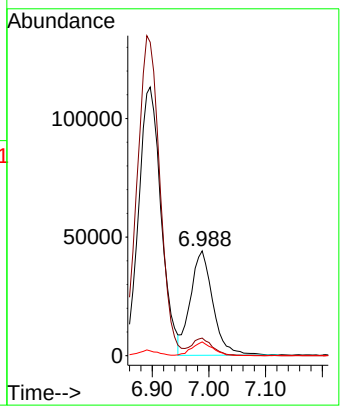
Tgt Ion: 43 Resp: 12096

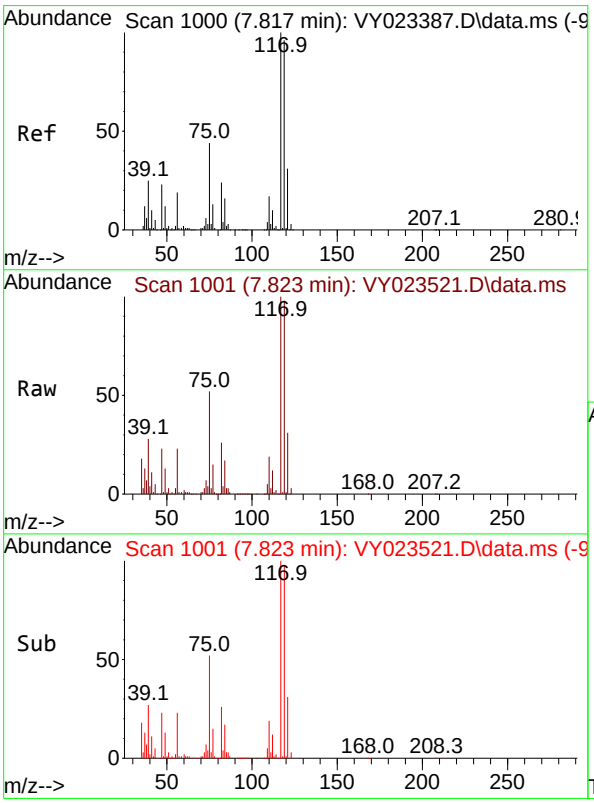
Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.8	17.8
70	12.5	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

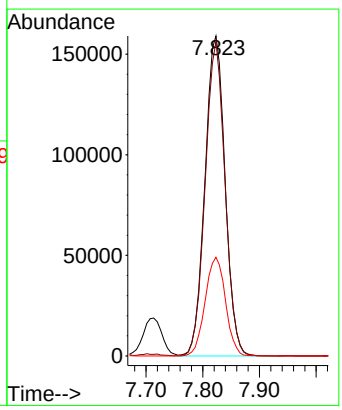


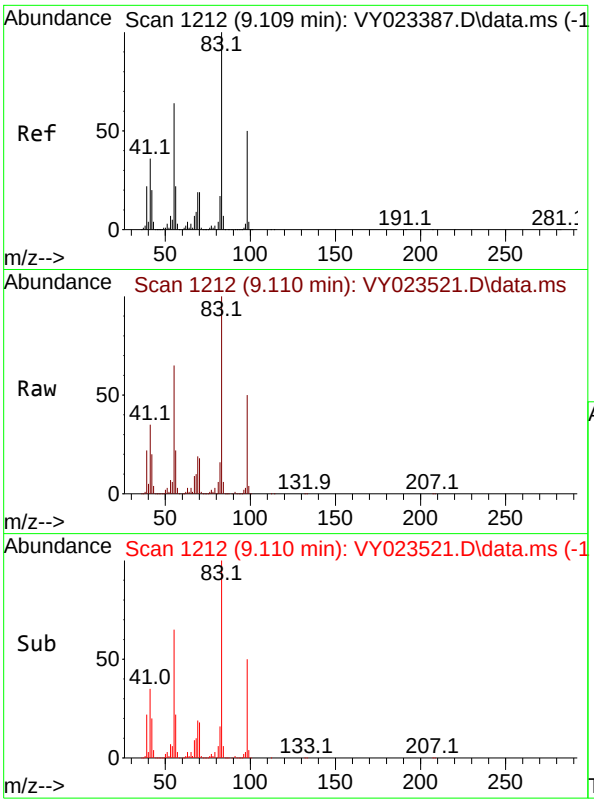


#38
Carbon Tetrachloride
Concen: 57.004 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:117 Resp: 392576

Ion	Ratio	Lower	Upper
117	100		
119	98.3	76.8	115.2
121	30.9	24.5	36.7

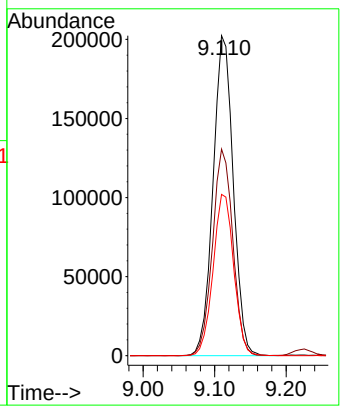




#39
Methylcyclohexane
Concen: 53.642 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 83 Resp: 39668

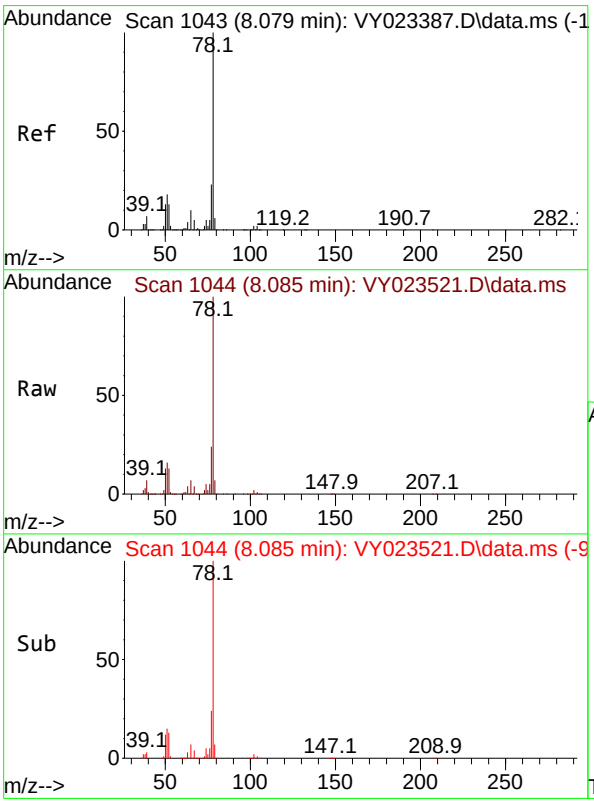
Ion	Ratio	Lower	Upper
83	100		
55	64.5	51.4	77.2
98	50.4	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

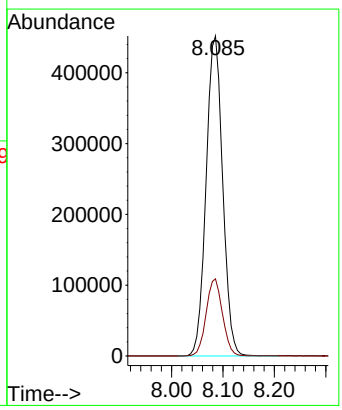
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

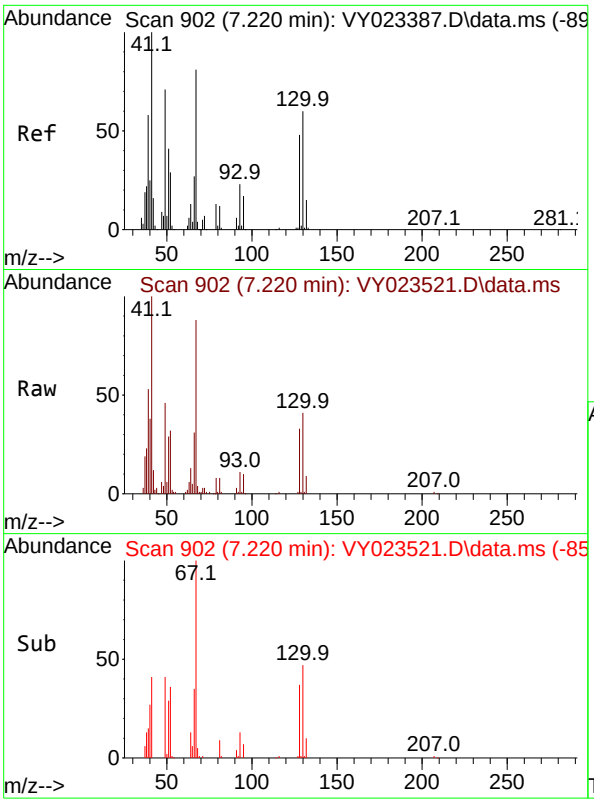


#40
Benzene
Concen: 56.189 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 78 Resp: 1010667

Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.3	27.5

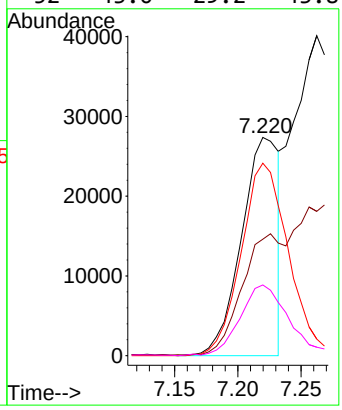




#41
Methacrylonitrile
Concen: 46.396 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 41 Resp: 5646

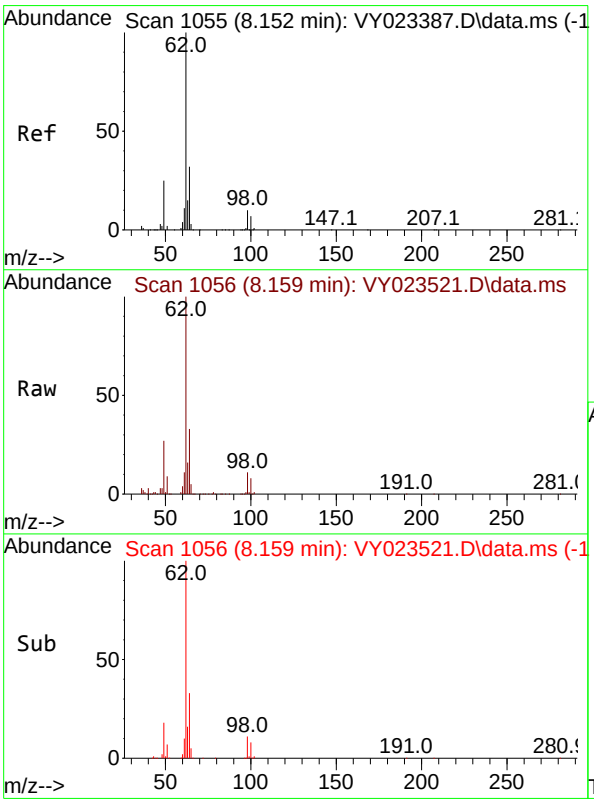
Ion	Ratio	Lower	Upper
41	100		
39	63.8	52.2	78.4
67	113.0	74.9	112.3
52	43.0	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

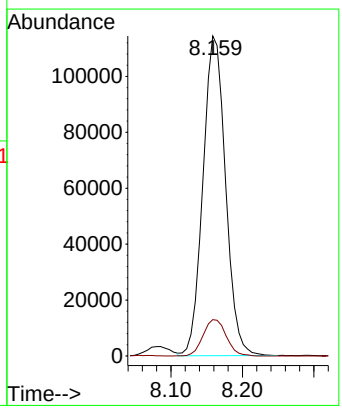
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

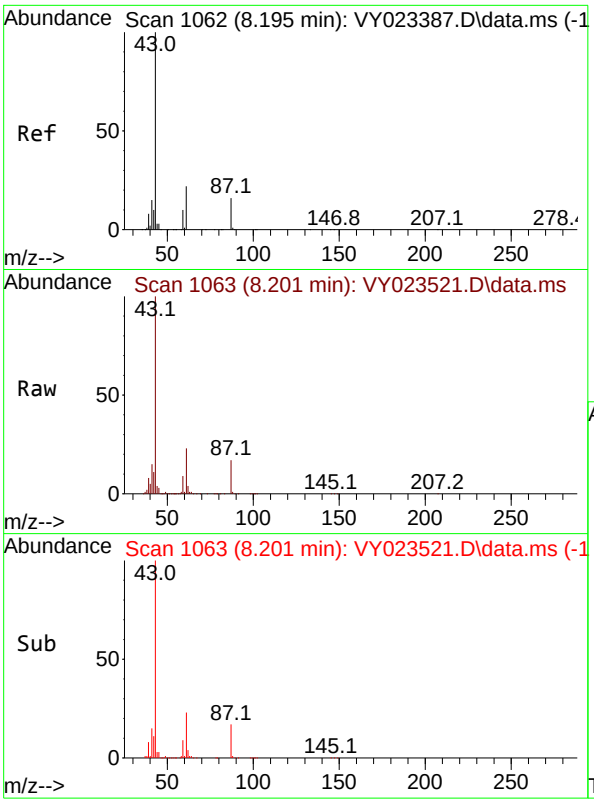


#42
1,2-Dichloroethane
Concen: 54.158 ug/l
RT: 8.159 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 62 Resp: 251229

Ion	Ratio	Lower	Upper
62	100		
98	11.6	0.0	21.6

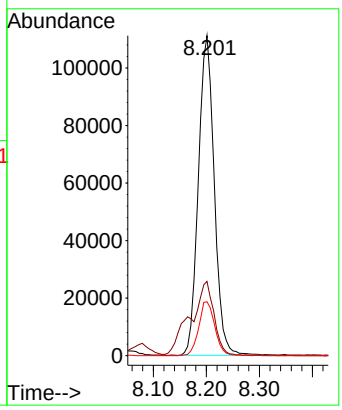




#43
Isopropyl Acetate
Concen: 51.687 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 43 Resp: 231909

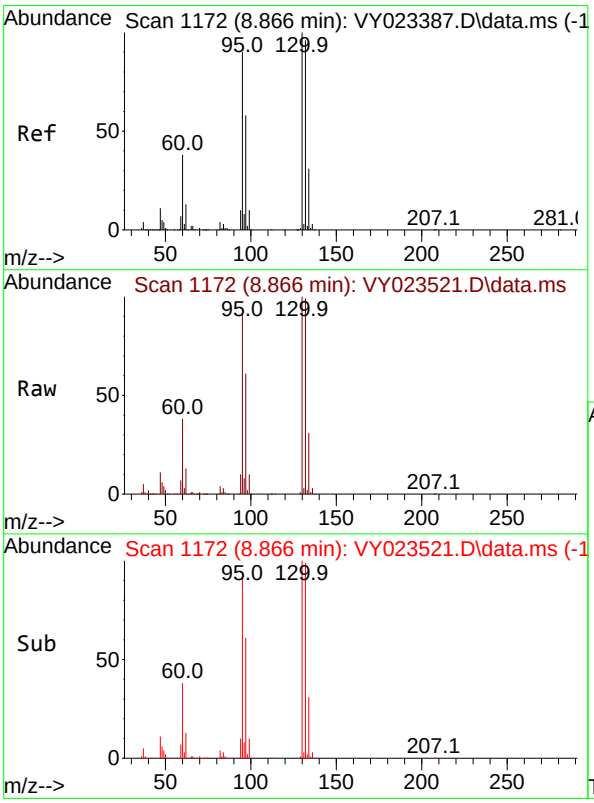
Ion	Ratio	Lower	Upper
43	100		
61	34.8	18.1	27.1
87	17.2	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

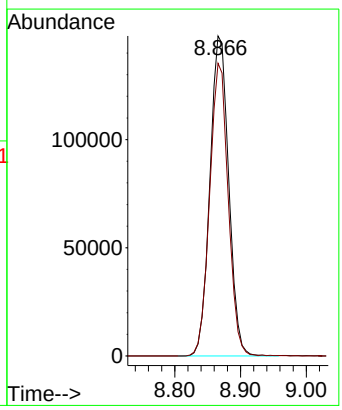
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

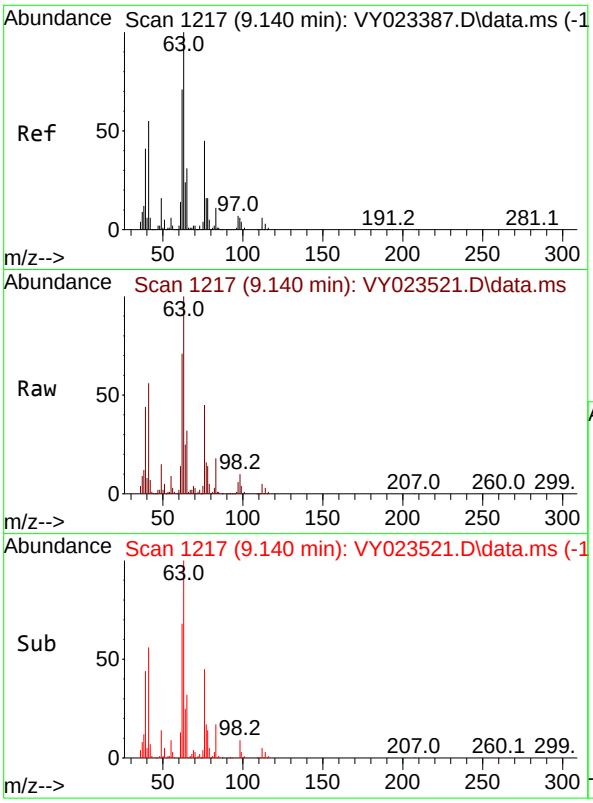


#44
Trichloroethene
Concen: 55.852 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:130 Resp: 294037

Ion	Ratio	Lower	Upper
130	100		
95	91.4	0.0	180.6

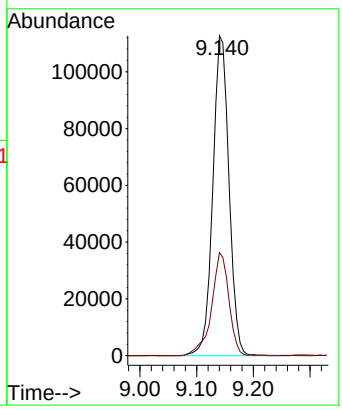




#45
1,2-Dichloropropane
Concen: 56.253 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 63 Resp: 22348

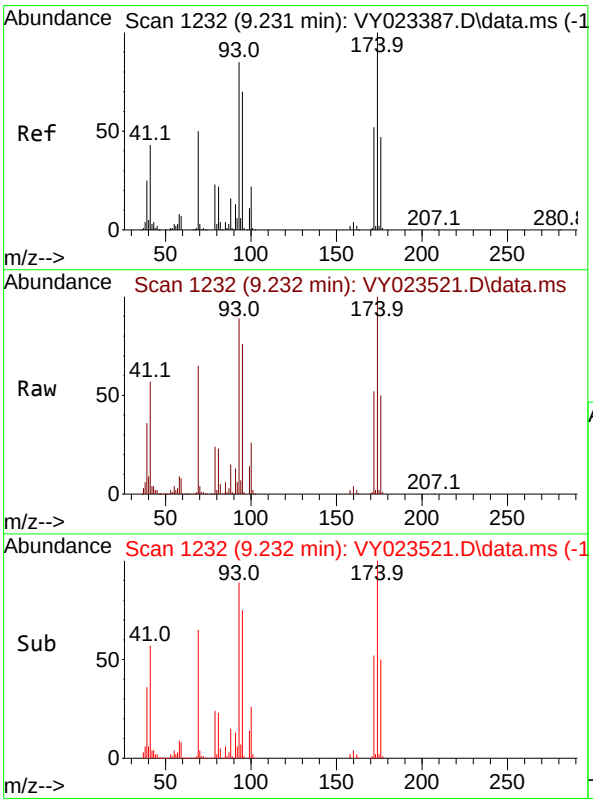
Ion	Ratio	Lower	Upper
63	100		
65	32.2	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

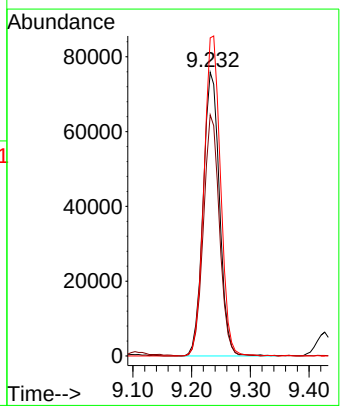
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

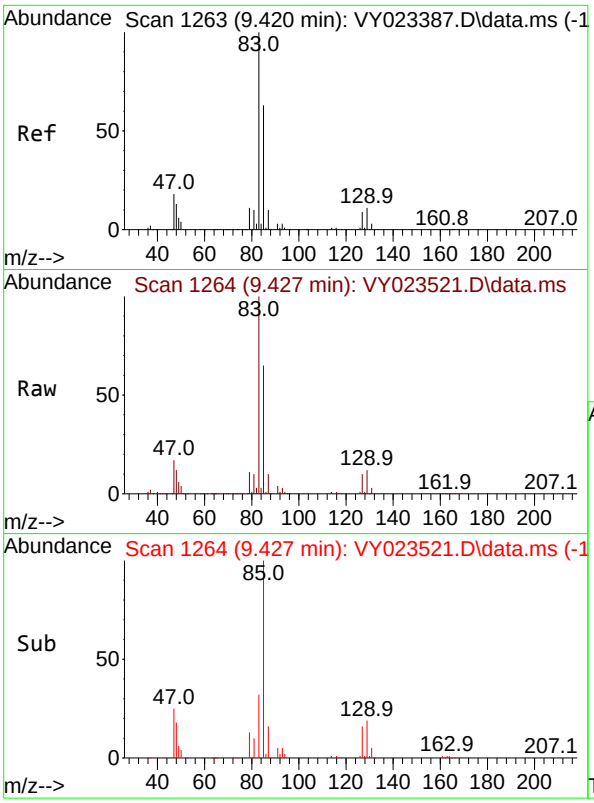


#46
Dibromomethane
Concen: 58.489 ug/l
RT: 9.232 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 93 Resp: 146935

Ion	Ratio	Lower	Upper
93	100		
95	82.9	65.4	98.0
174	114.0	92.9	139.3

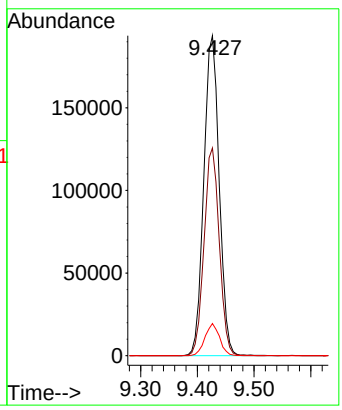




#47
Bromodichloromethane
Concen: 57.621 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 83 Resp: 36456

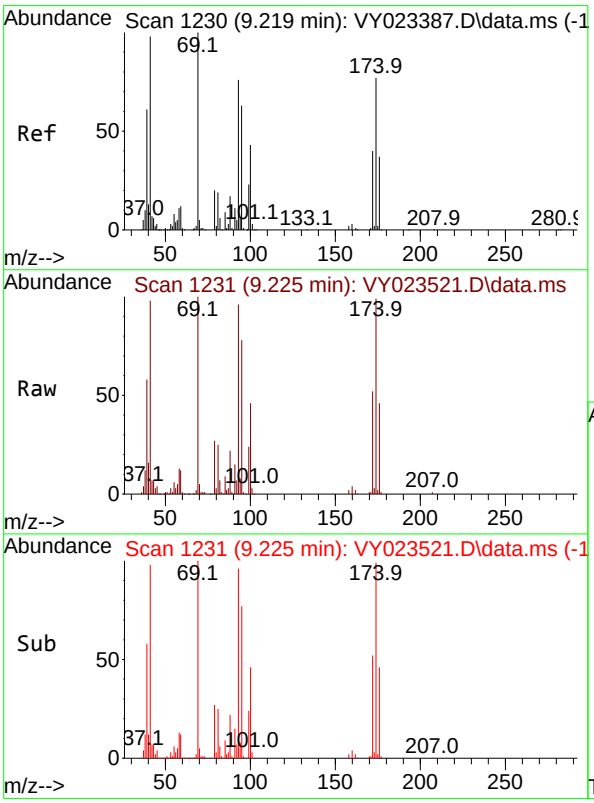
Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.8	76.2
127	10.1	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

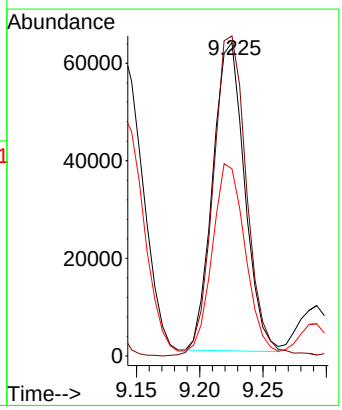
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

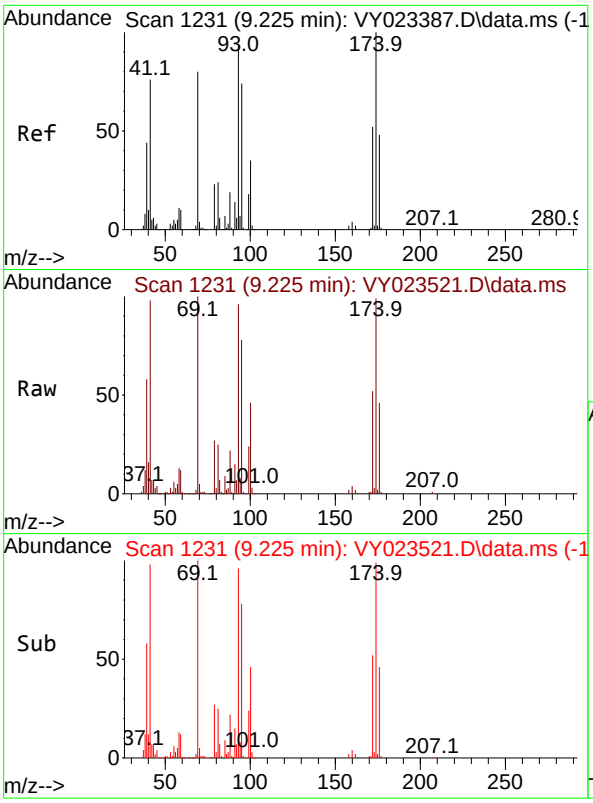


#48
Methyl methacrylate
Concen: 52.590 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 41 Resp: 110852

Ion	Ratio	Lower	Upper
41	100		
69	109.0	81.0	121.4
39	61.8	48.2	72.4

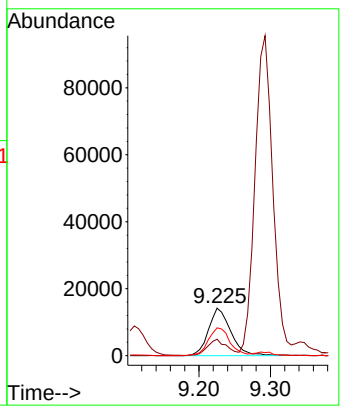




#49
1,4-Dioxane
Concen: 1051.234 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 88 Resp: 3061

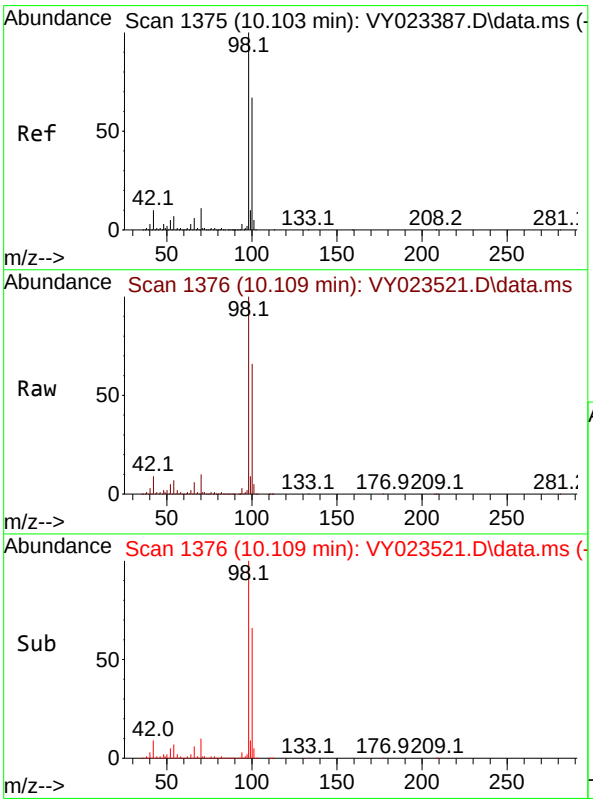
Ion	Ratio	Lower	Upper
88	100		
43	29.7	21.8	32.8
58	56.7	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

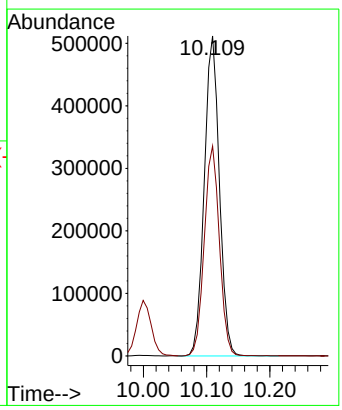
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

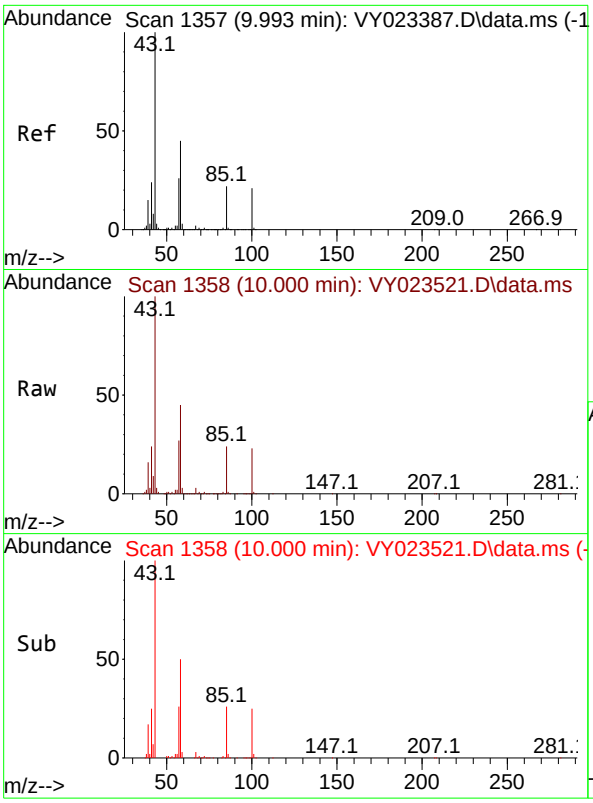


#50
Toluene-d8
Concen: 53.217 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 98 Resp: 850239

Ion	Ratio	Lower	Upper
98	100		
100	65.7	53.0	79.4

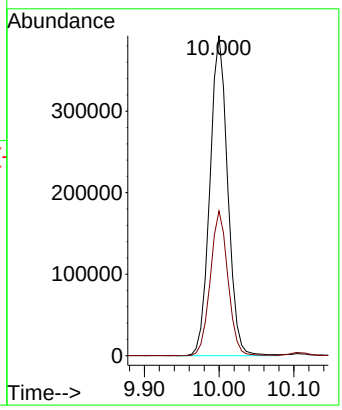




#51
4-Methyl-2-Pentanone
Concen: 280.345 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 43 Resp: 64988

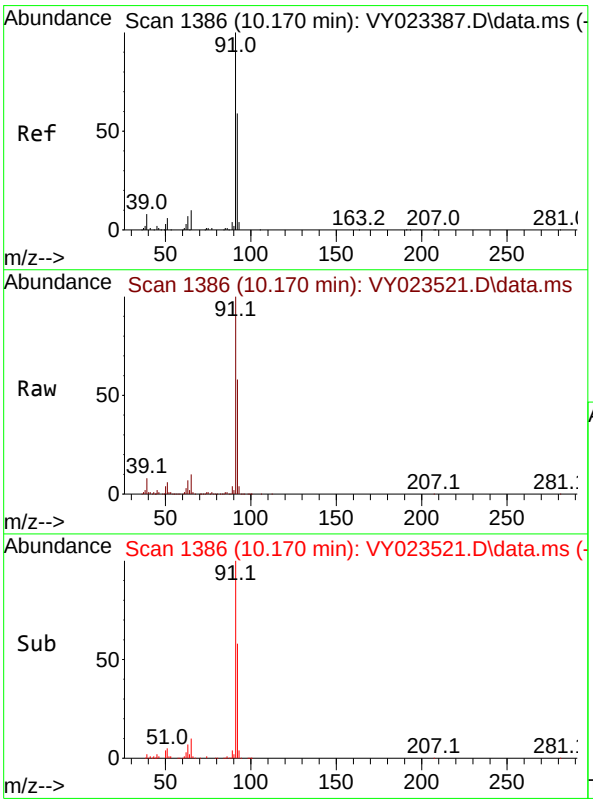
Ion	Ratio	Lower	Upper
43	100		
58	44.8	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

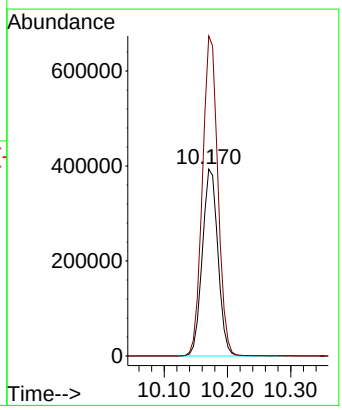
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

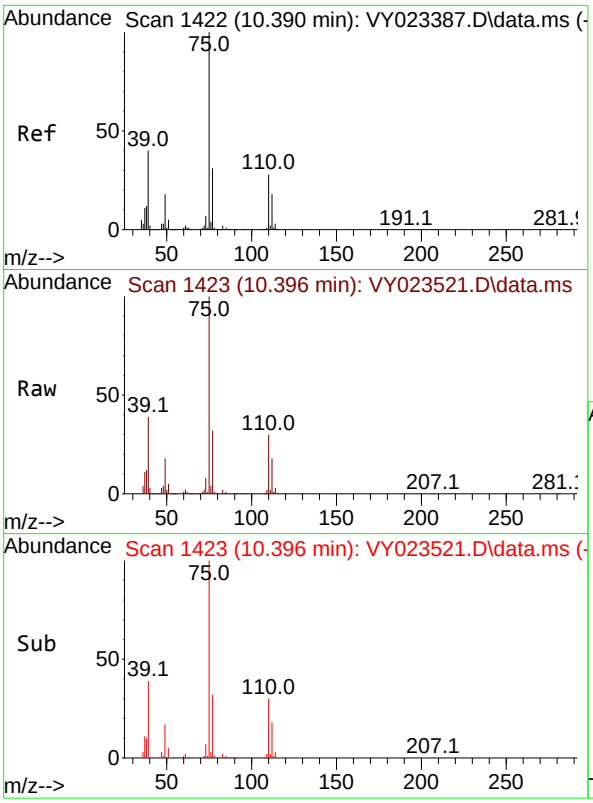


#52
Toluene
Concen: 57.818 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 92 Resp: 675233

Ion	Ratio	Lower	Upper
92	100		
91	169.8	136.4	204.6

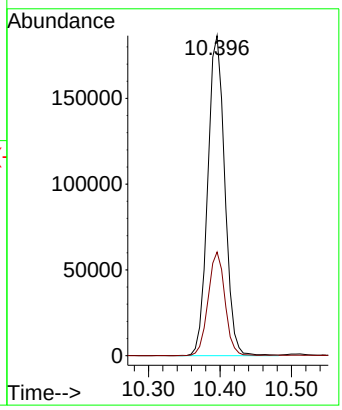




#53
t-1,3-Dichloropropene
Concen: 55.984 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 75 Resp: 30799

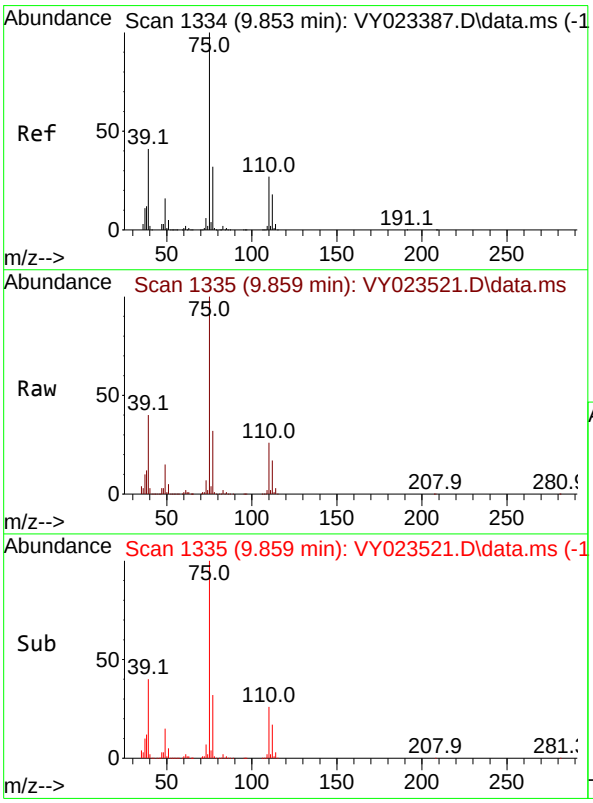
Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

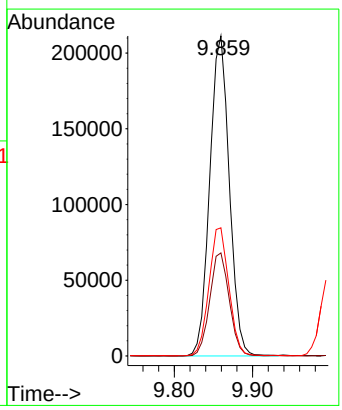
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

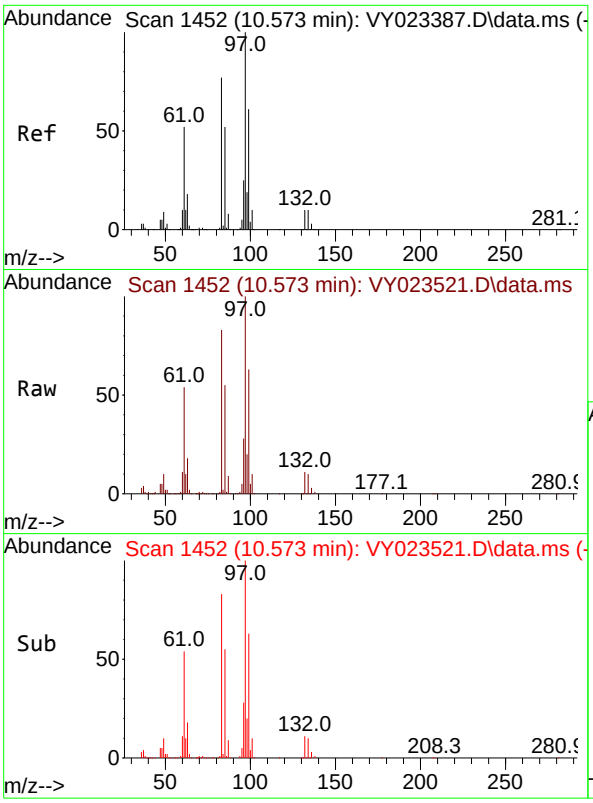


#54
cis-1,3-Dichloropropene
Concen: 56.399 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 75 Resp: 366195

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.4	38.0
39	40.0	32.8	49.2

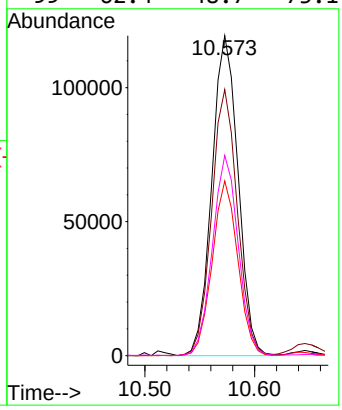




#55
1,1,2-Trichloroethane
Concen: 58.815 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 97 Resp: 19869

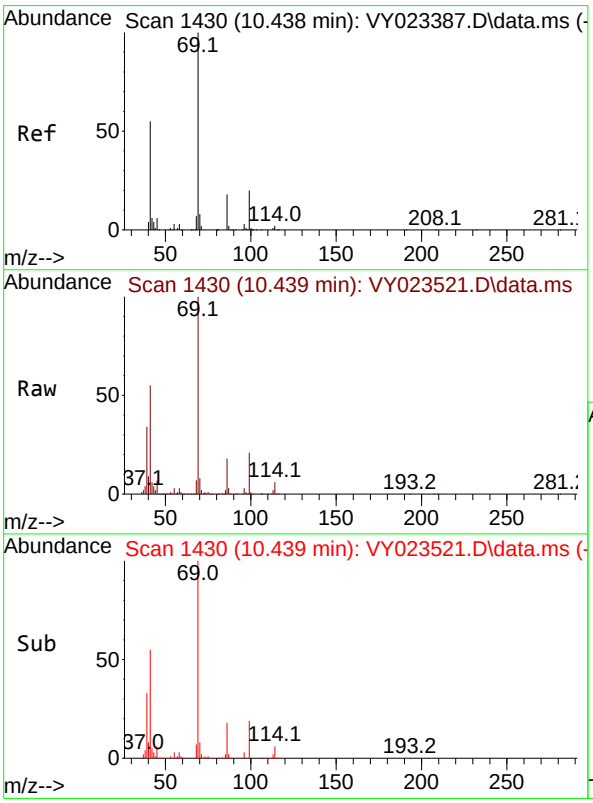
Ion	Ratio	Lower	Upper
97	100		
83	83.1	61.8	92.6
85	54.6	41.3	61.9
99	62.4	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

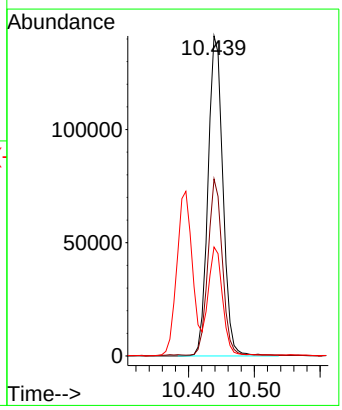
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

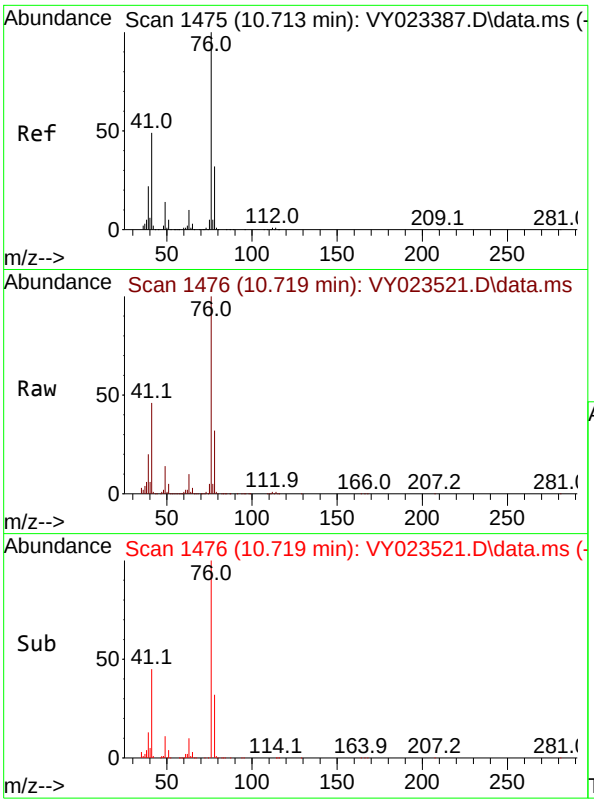


#56
Ethyl methacrylate
Concen: 57.121 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 69 Resp: 222590

Ion	Ratio	Lower	Upper
69	100		
41	53.3	44.6	67.0
39	32.0	27.0	40.4

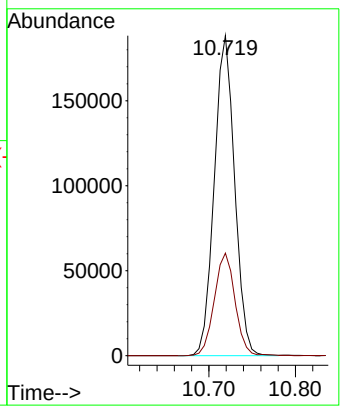




#57
1,3-Dichloropropane
Concen: 57.370 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 76 Resp: 30711

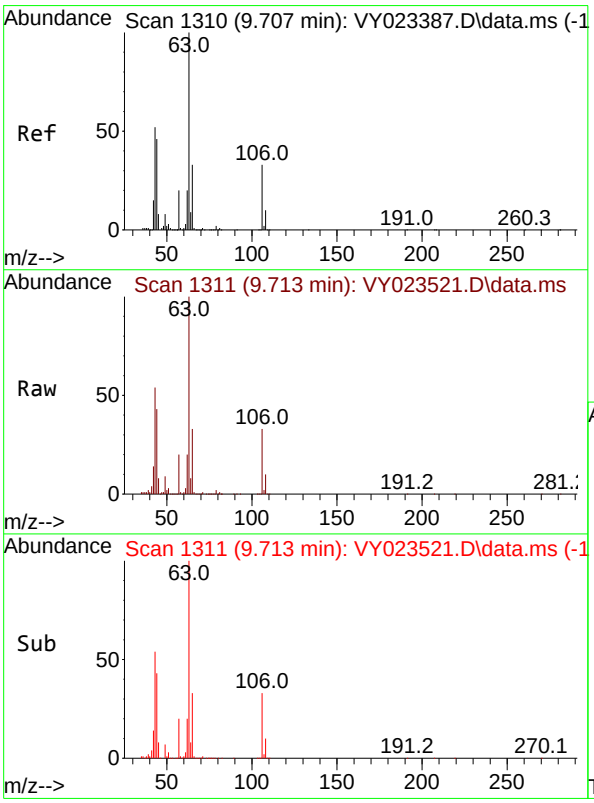
Ion	Ratio	Lower	Upper
76	100		
78	32.7	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

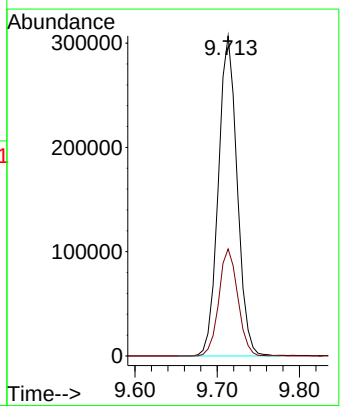
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

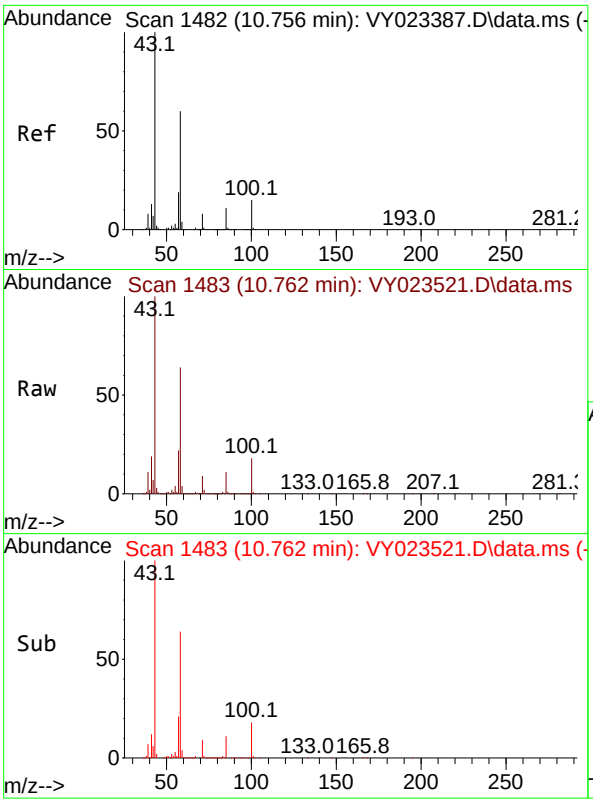


#58
2-Chloroethyl Vinyl ether
Concen: 280.014 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 63 Resp: 488816

Ion	Ratio	Lower	Upper
63	100		
106	33.7	26.6	39.8

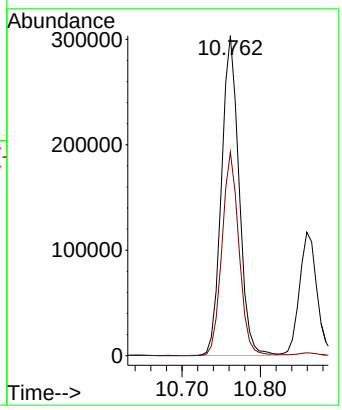




#59
2-Hexanone
Concen: 285.033 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 43 Resp: 47220

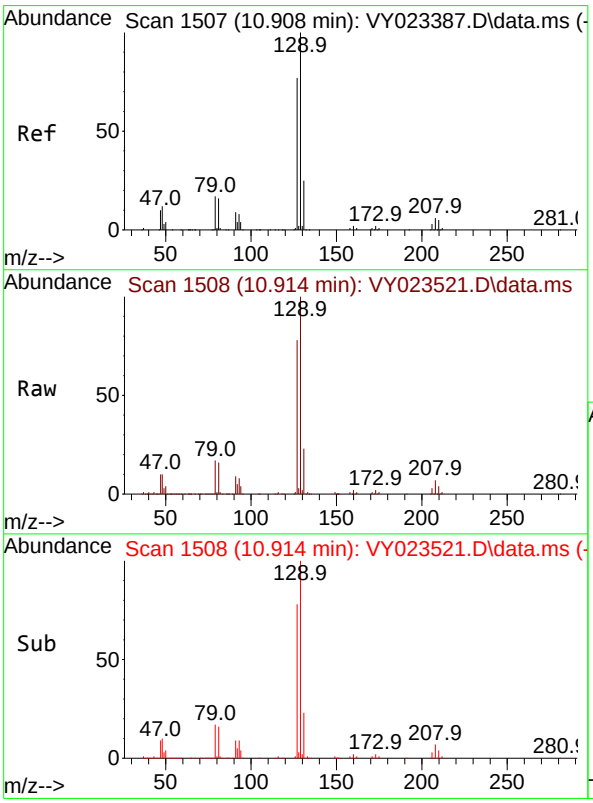
Ion	Ratio	Lower	Upper
43	100		
58	62.0	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

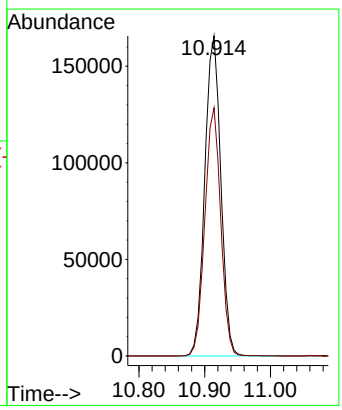
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

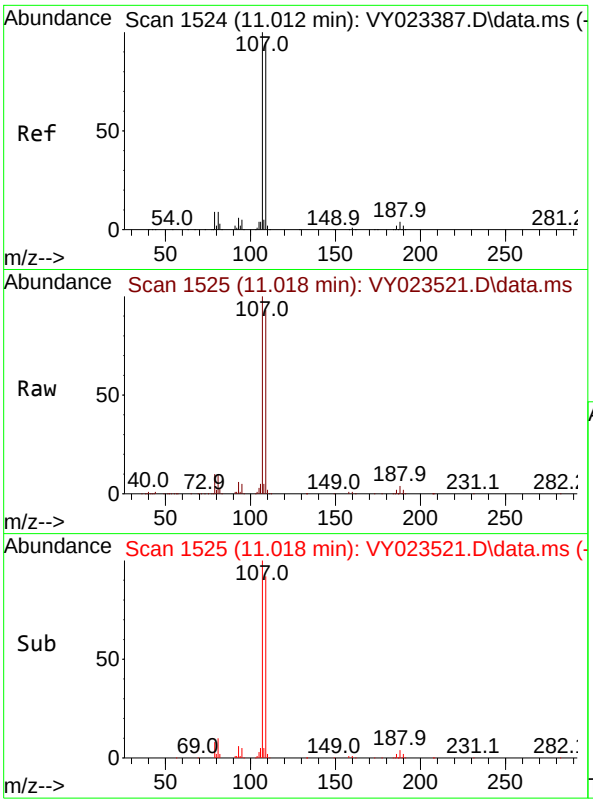


#60
Dibromochloromethane
Concen: 59.341 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:129 Resp: 281057

Ion	Ratio	Lower	Upper
129	100		
127	76.8	38.6	115.7

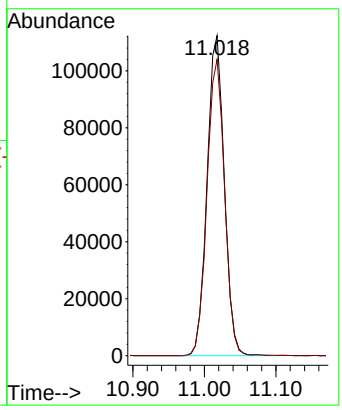




#61
1,2-Dibromoethane
Concen: 58.304 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:107 Resp: 18784

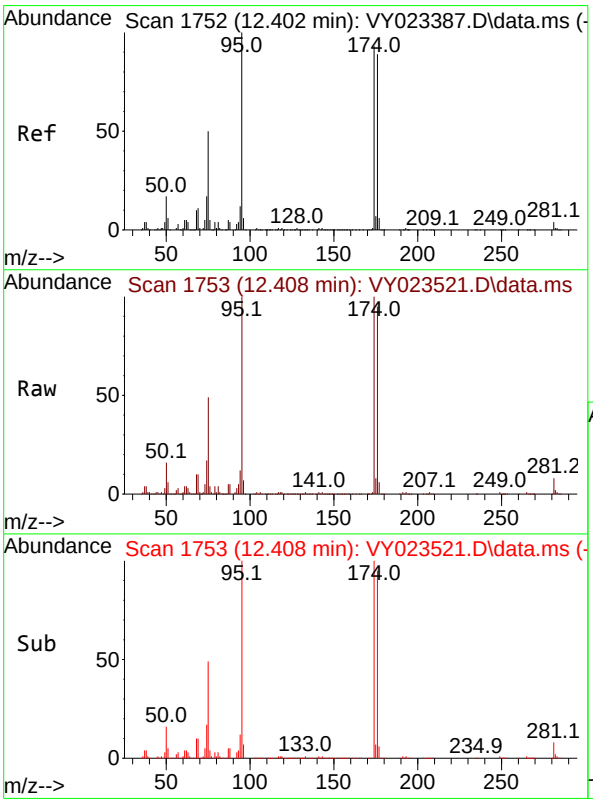
Ion	Ratio	Lower	Upper
107	100		
109	94.7	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

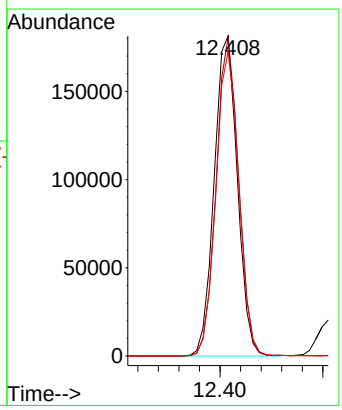
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

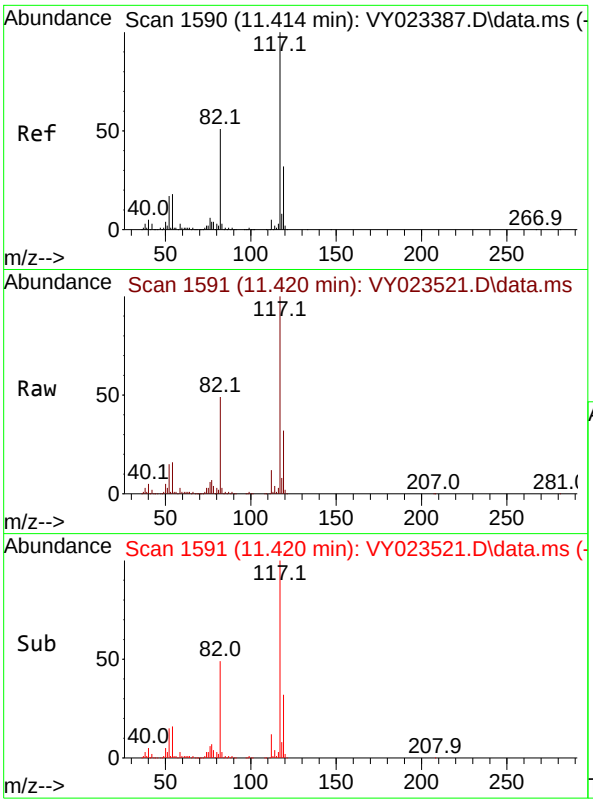


#62
4-Bromofluorobenzene
Concen: 53.656 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 95 Resp: 283018

Ion	Ratio	Lower	Upper
95	100		
174	96.6	0.0	192.8
176	94.3	0.0	187.6

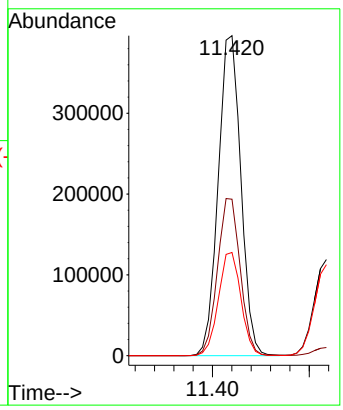




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:117 Resp: 64291

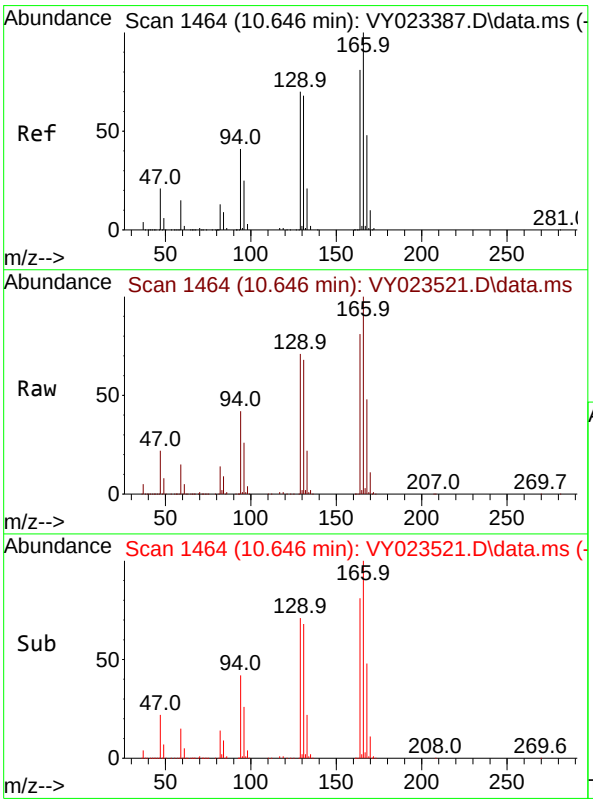
Ion	Ratio	Lower	Upper
117	100		
82	48.9	41.0	61.4
119	32.3	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

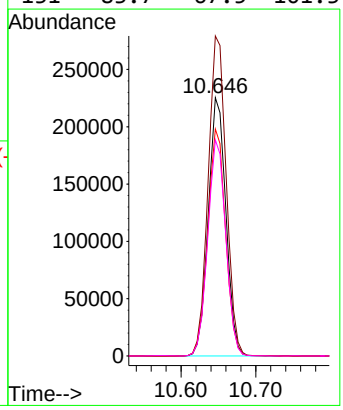
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

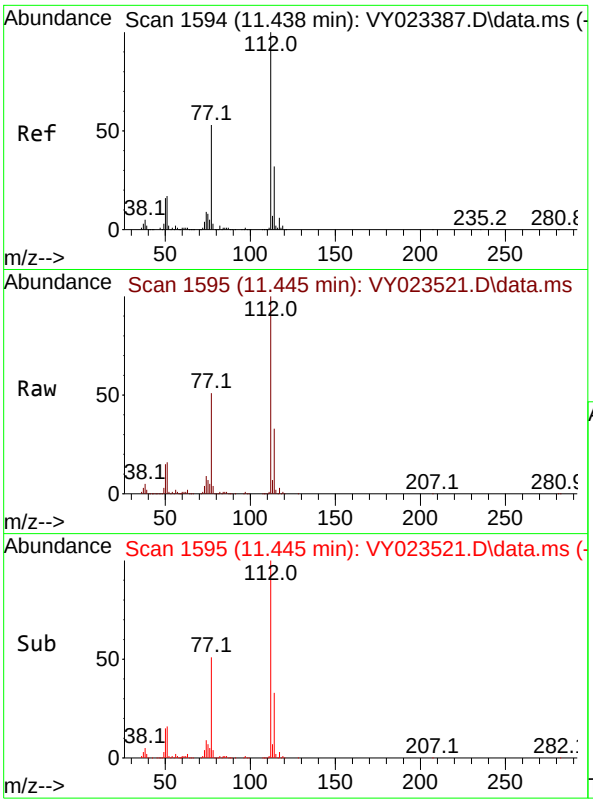


#64
Tetrachloroethene
Concen: 55.688 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:164 Resp: 369674

Ion	Ratio	Lower	Upper
164	100		
166	123.9	99.4	149.0
129	87.9	69.4	104.2
131	83.7	67.5	101.3

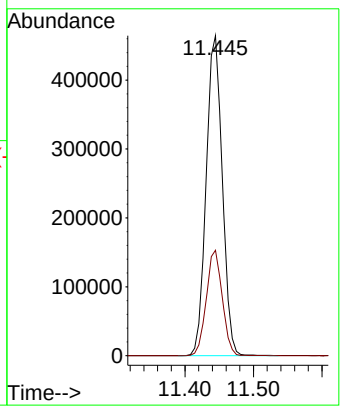




#65
Chlorobenzene
Concen: 54.309 ug/l
RT: 11.445 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:112 Resp: 75940

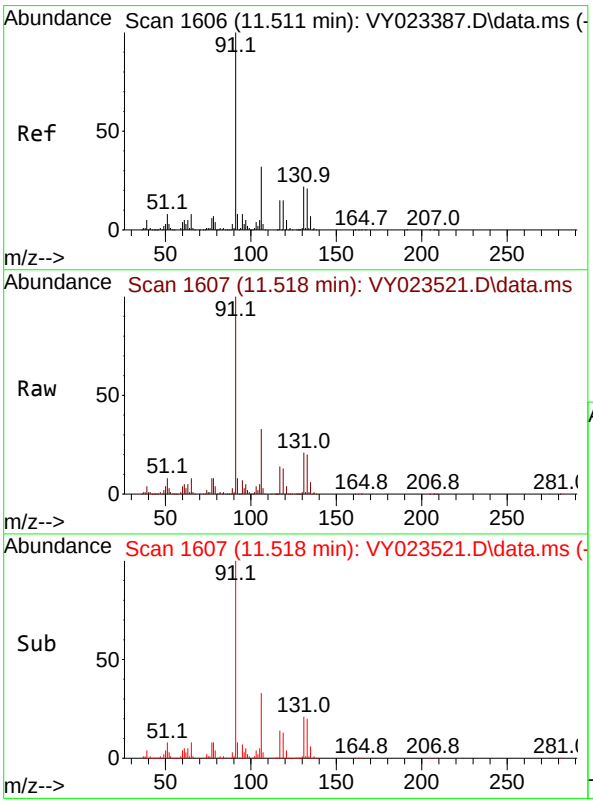
Ion	Ratio	Lower	Upper
112	100		
114	32.9	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

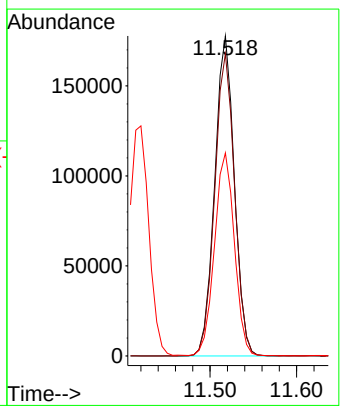
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

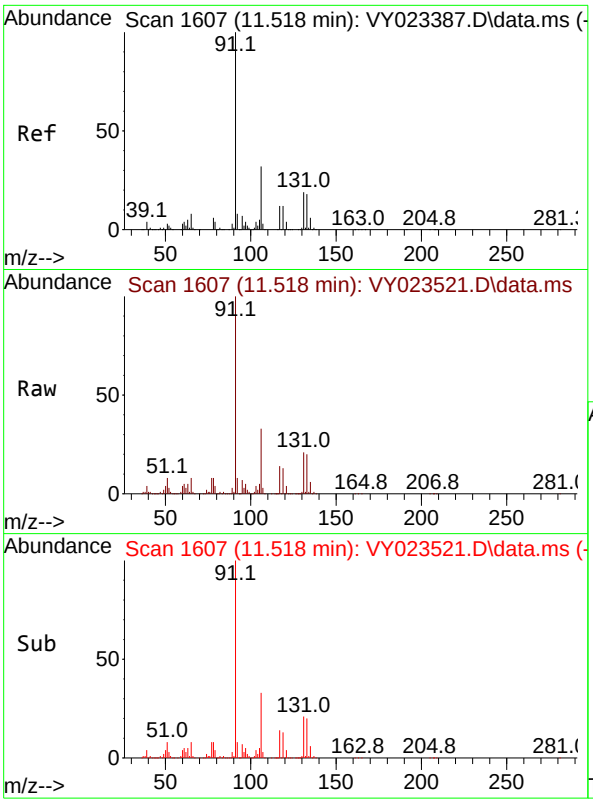


#66
1,1,1,2-Tetrachloroethane
Concen: 56.268 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:131 Resp: 280381

Ion	Ratio	Lower	Upper
131	100		
133	95.5	48.4	145.2
119	64.2	32.4	97.2

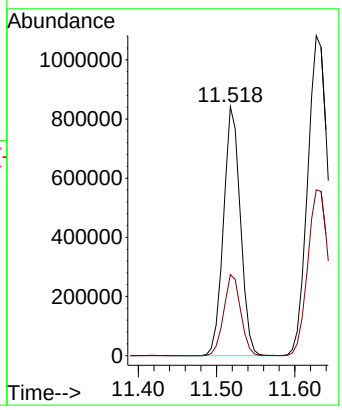




#67
Ethyl Benzene
Concen: 55.713 ug/l
RT: 11.518 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 91 Resp: 126104(

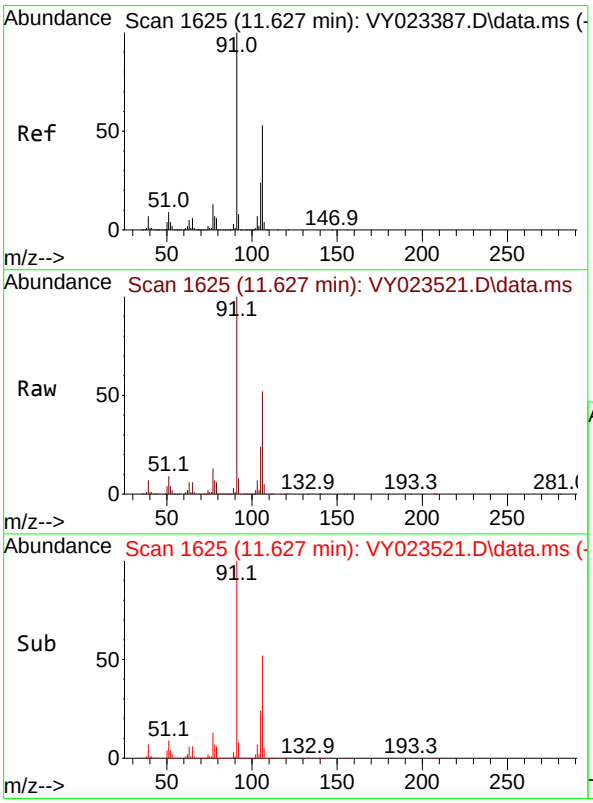
Ion	Ratio	Lower	Upper
91	100		
106	32.6	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

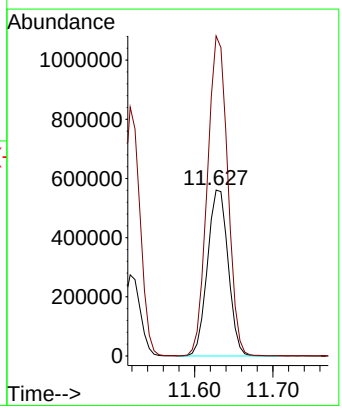
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

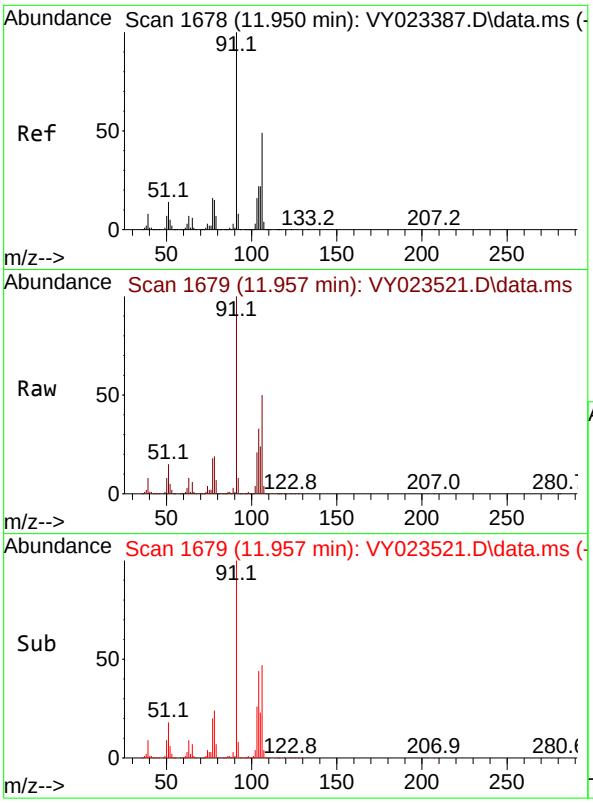


#68
m/p-Xylenes
Concen: 113.207 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:106 Resp: 1027756

Ion	Ratio	Lower	Upper
106	100		
91	189.8	152.6	229.0

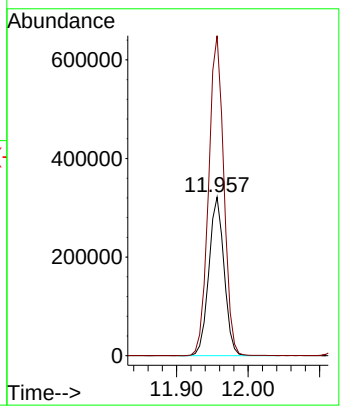




#69
o-Xylene
Concen: 55.830 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:106 Resp: 47542

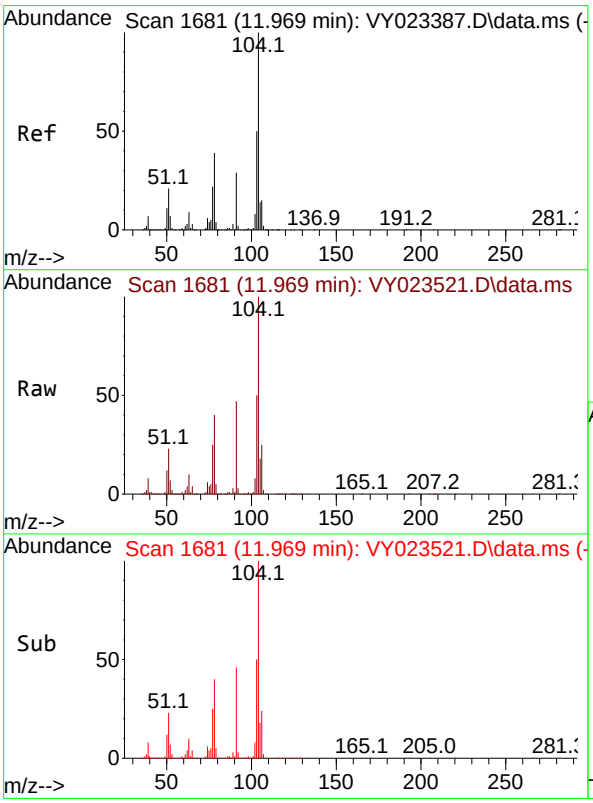
Ion	Ratio	Lower	Upper
106	100		
91	201.4	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

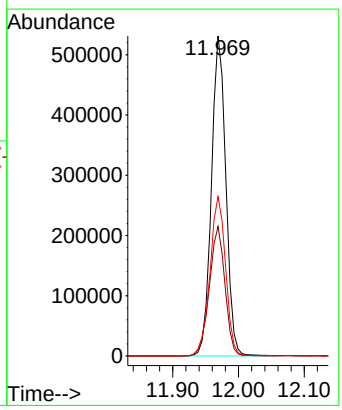
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

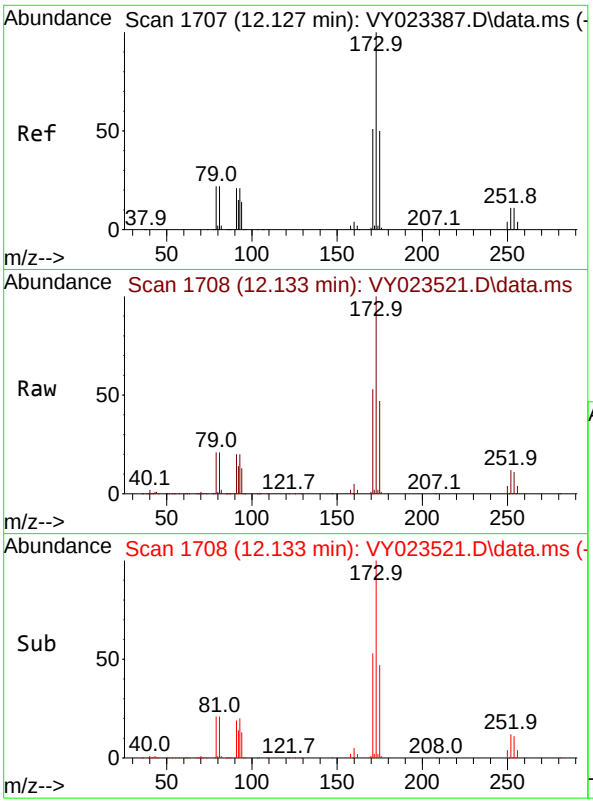


#70
Styrene
Concen: 57.893 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:104 Resp: 810694

Ion	Ratio	Lower	Upper
104	100		
78	43.8	36.1	54.1
103	54.0	43.2	64.8

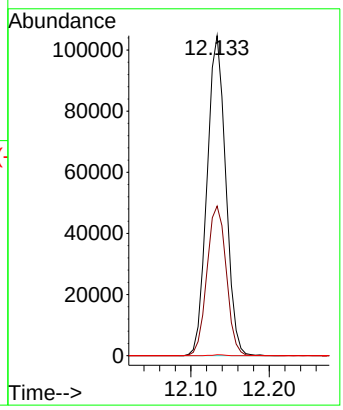




#71
Bromoform
Concen: 56.019 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

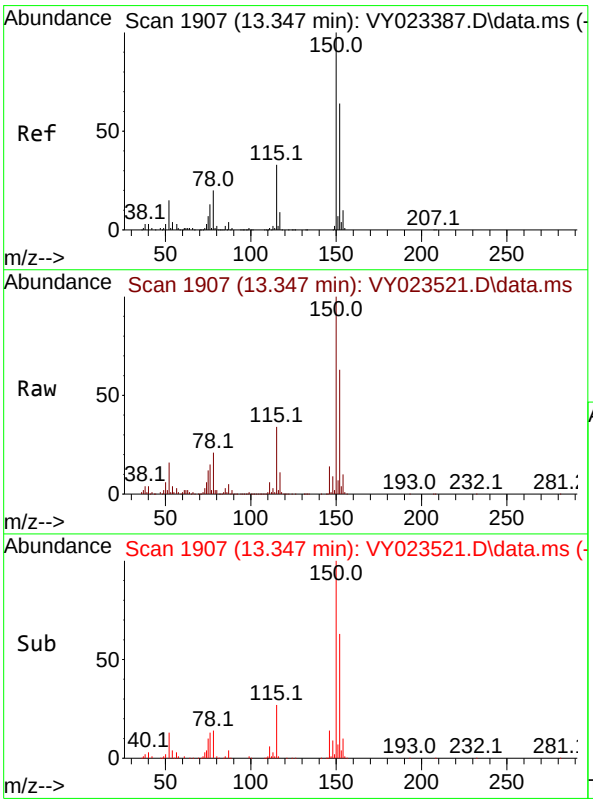
Tgt Ion:173 Resp: 17314

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.8	74.3
254	0.2	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

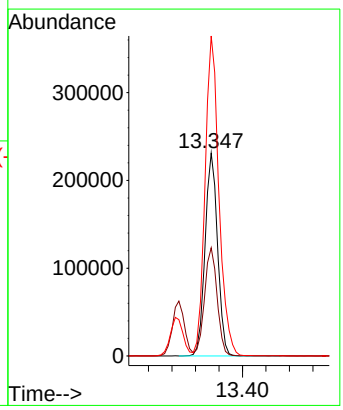
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

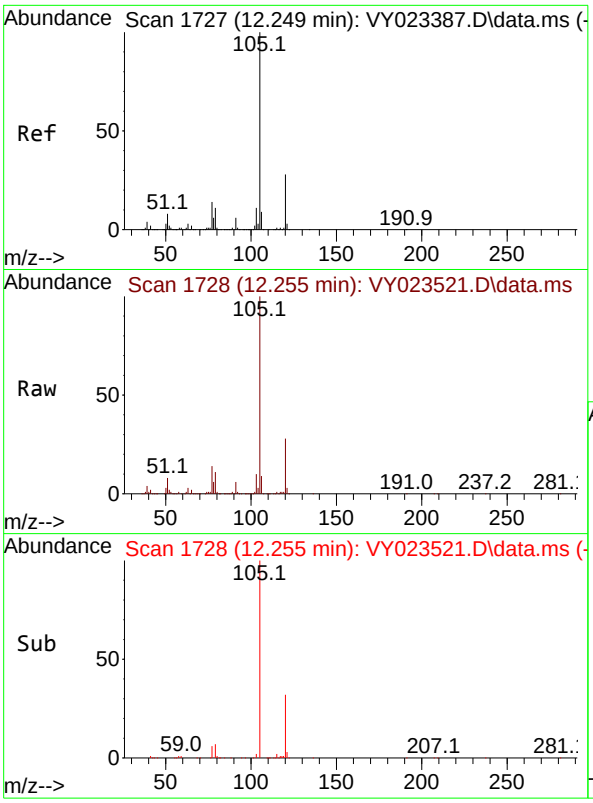


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:152 Resp: 341616

Ion	Ratio	Lower	Upper
152	100		
115	53.6	27.1	81.2
150	174.9	0.0	347.4

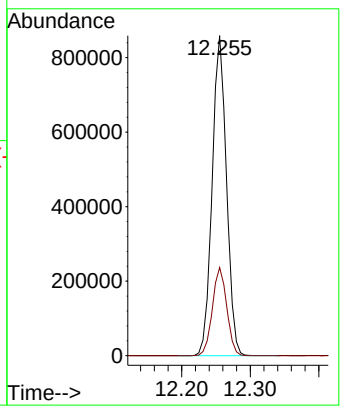




#73
Isopropylbenzene
Concen: 55.240 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:105 Resp: 124360

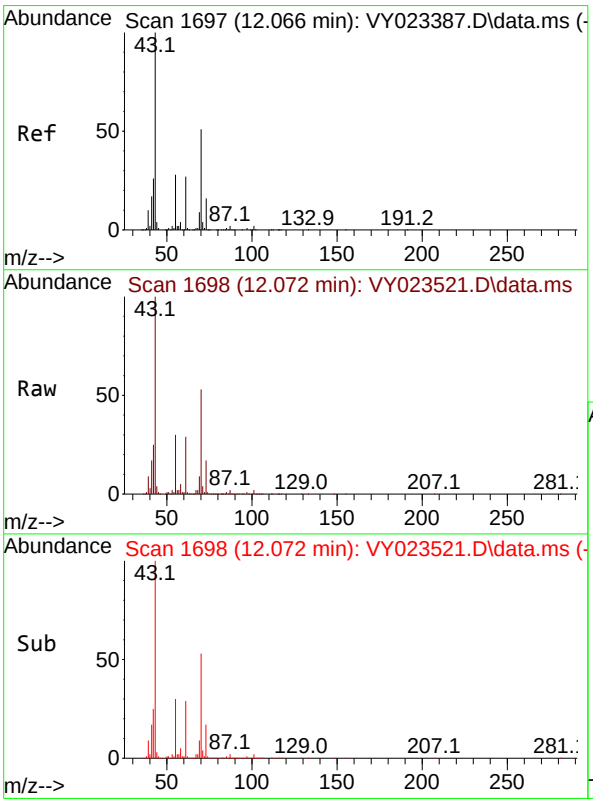
Ion	Ratio	Lower	Upper
105	100		
120	27.6	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

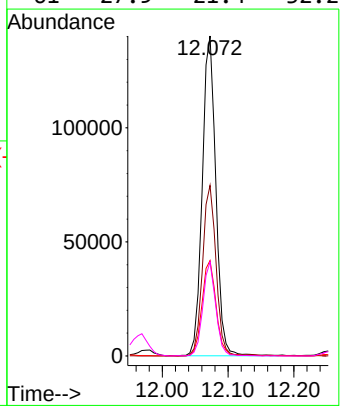
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

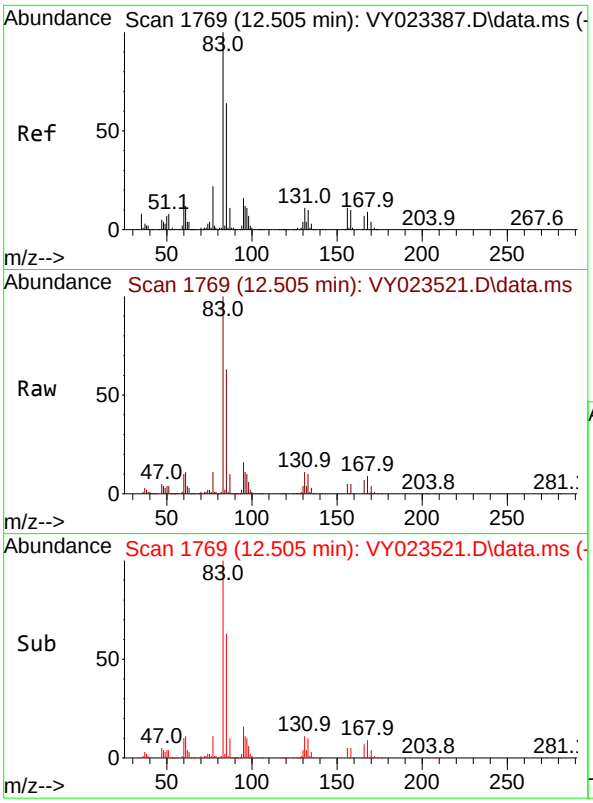


#74
N-amyl acetate
Concen: 49.976 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 43 Resp: 202085

Ion	Ratio	Lower	Upper
43	100		
70	53.0	41.1	61.7
55	30.9	23.0	34.6
61	27.9	21.4	32.2

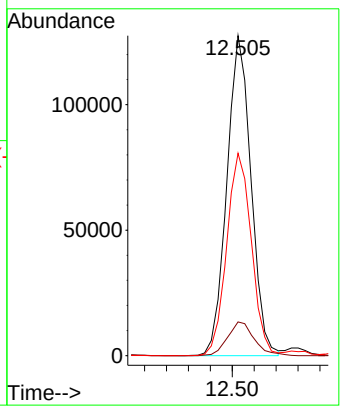




#75
1,1,2,2-Tetrachloroethane
Concen: 53.009 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 83 Resp: 19518

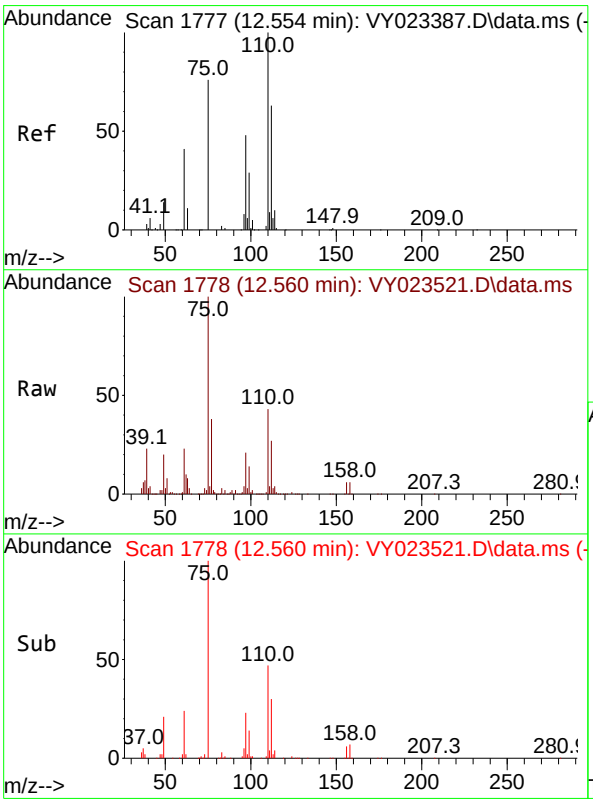
Ion	Ratio	Lower	Upper
83	100		
131	11.6	5.9	17.6
85	64.6	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

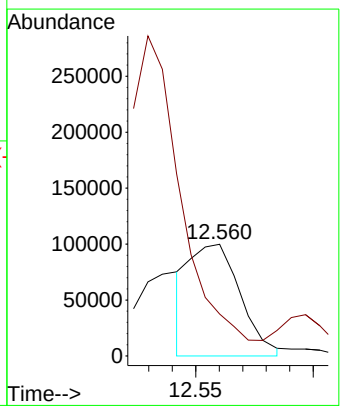
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

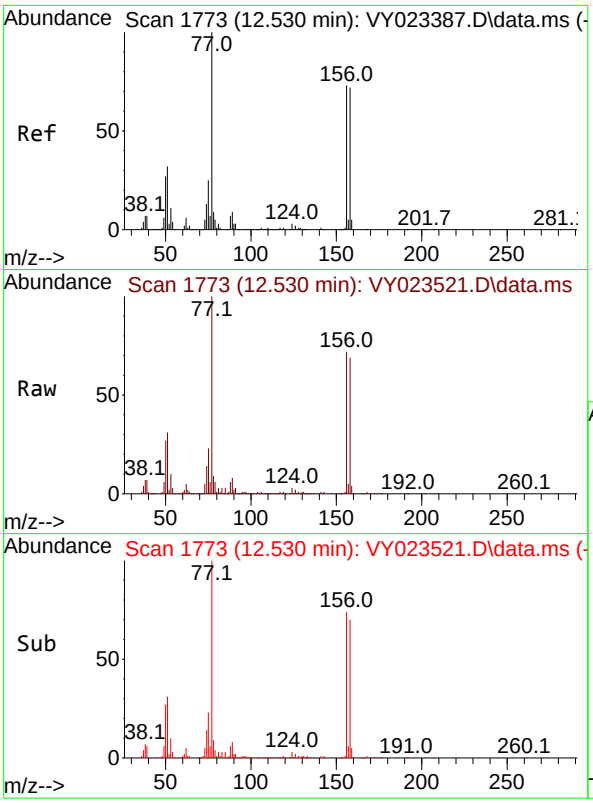


#76
1,2,3-Trichloropropane
Concen: 50.129 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 75 Resp: 151087

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

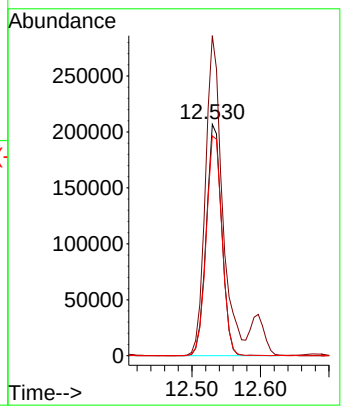




#77
Bromobenzene
Concen: 54.235 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:156 Resp: 32460

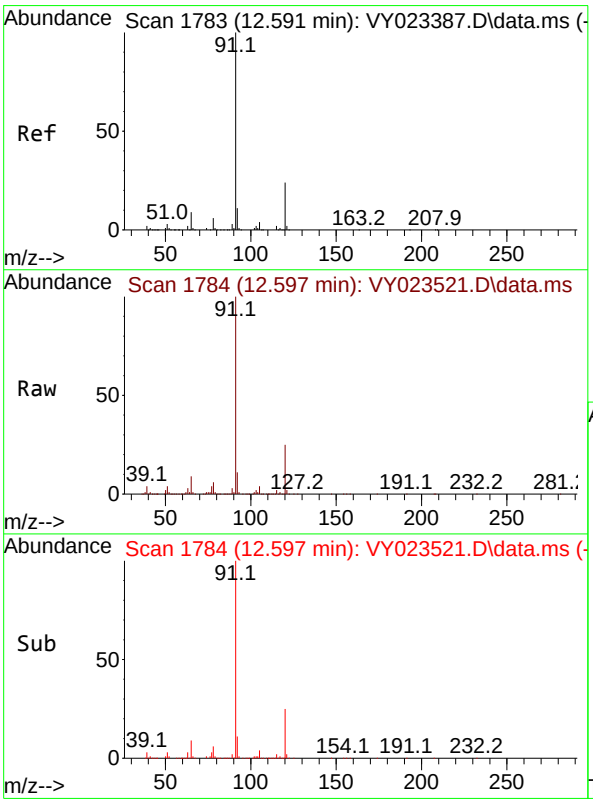
Ion	Ratio	Lower	Upper
156	100		
77	151.6	76.8	230.5
158	97.2	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

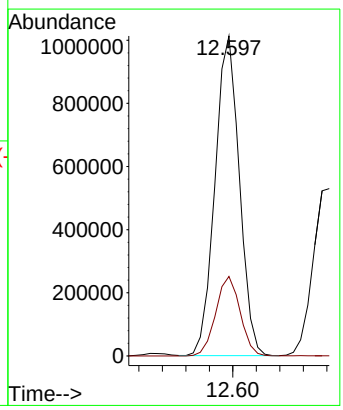
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

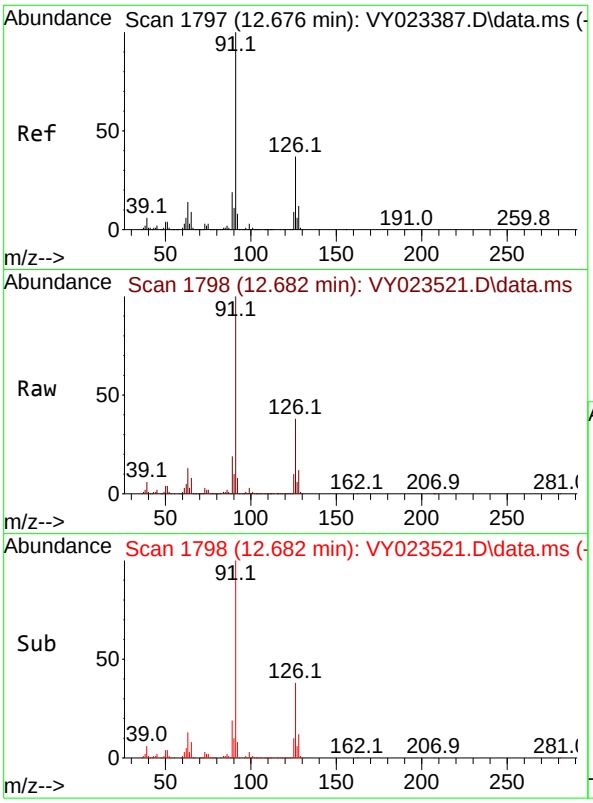


#78
n-propylbenzene
Concen: 55.961 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 91 Resp: 1457896

Ion	Ratio	Lower	Upper
91	100		
120	24.9	12.3	36.8

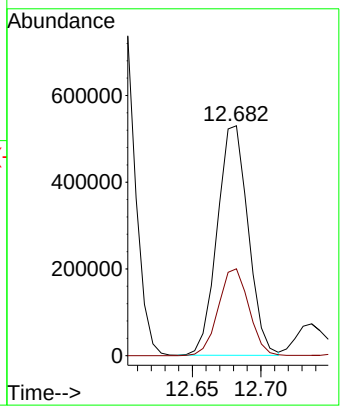




#79
2-Chlorotoluene
Concen: 54.463 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 91 Resp: 83089

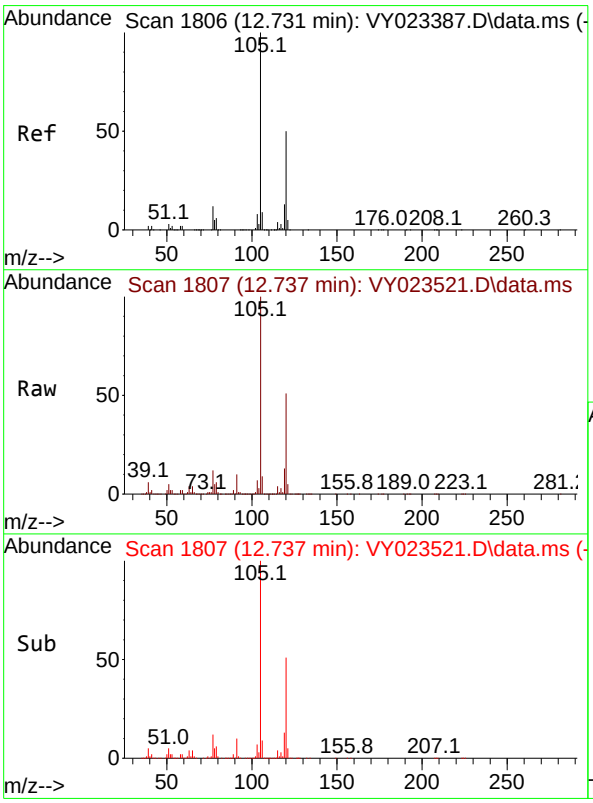
Ion	Ratio	Lower	Upper
91	100		
126	37.5	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

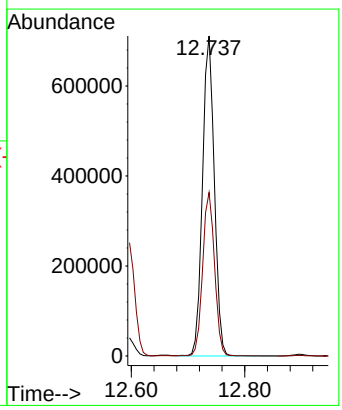
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

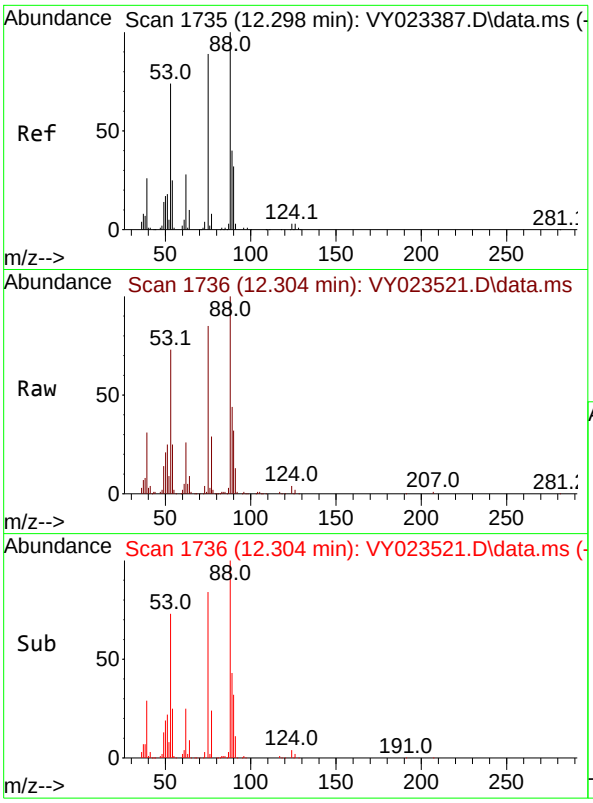


#80
1,3,5-Trimethylbenzene
Concen: 56.451 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:105 Resp: 1026971

Ion	Ratio	Lower	Upper
105	100		
120	51.4	25.4	76.4





#81
trans-1,4-Dichloro-2-butene
Concen: 50.407 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

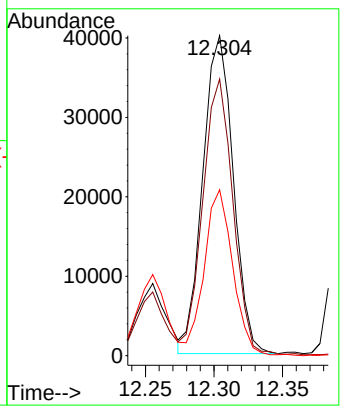
Tgt Ion: 75 Resp: 6195

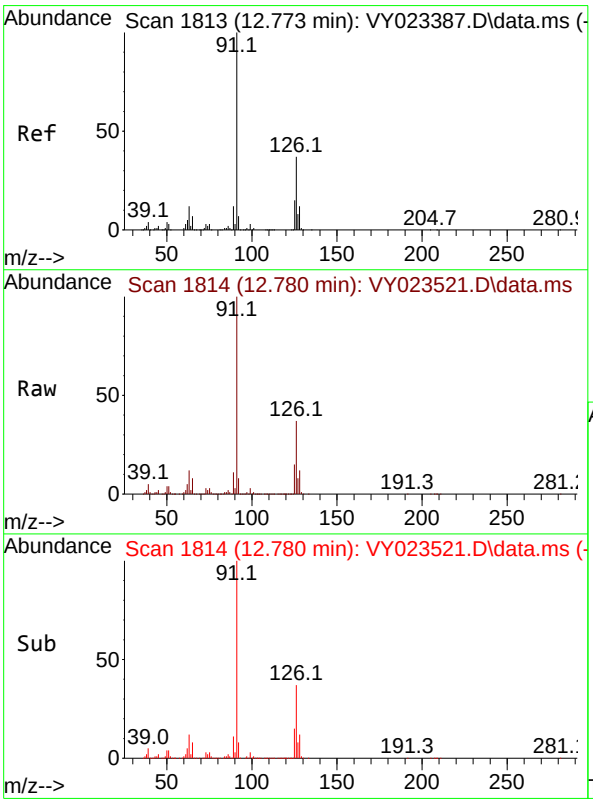
Ion	Ratio	Lower	Upper
75	100		
53	86.5	68.6	102.8
89	48.7	39.0	58.4

Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

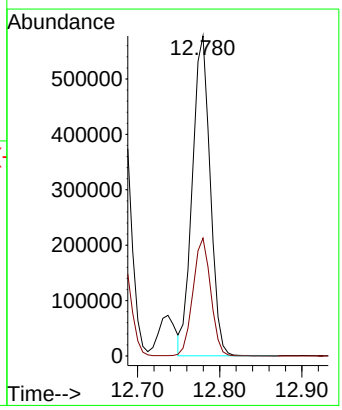


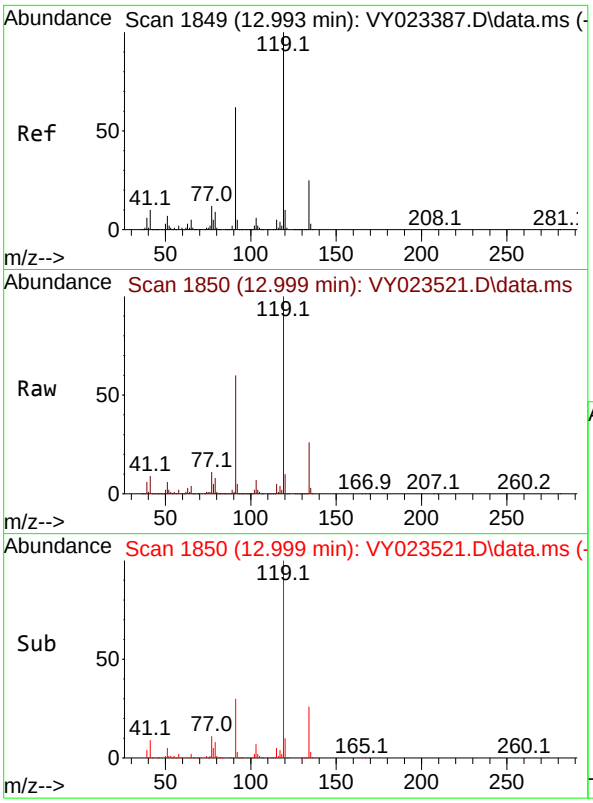


#82
4-Chlorotoluene
Concen: 55.289 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 91 Resp: 868701

Ion	Ratio	Lower	Upper
91	100		
126	36.7	18.4	55.4

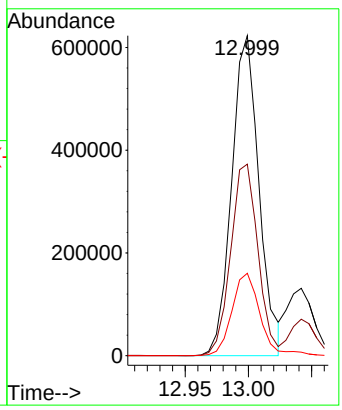




#83
tert-Butylbenzene
Concen: 55.842 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:119 Resp: 93798

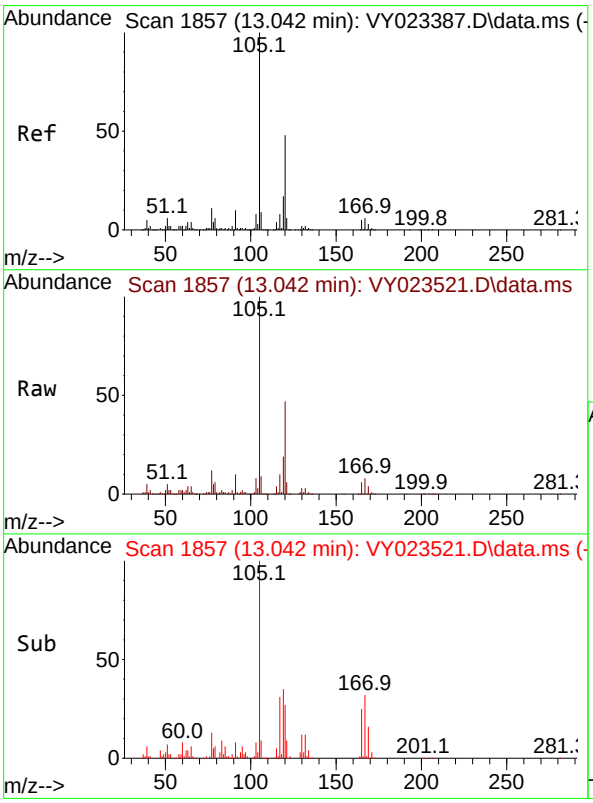
Ion	Ratio	Lower	Upper
119	100		
91	59.7	29.9	89.8
134	26.6	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

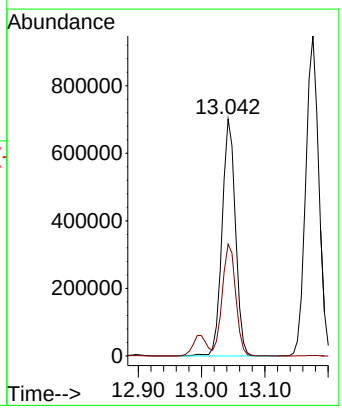
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

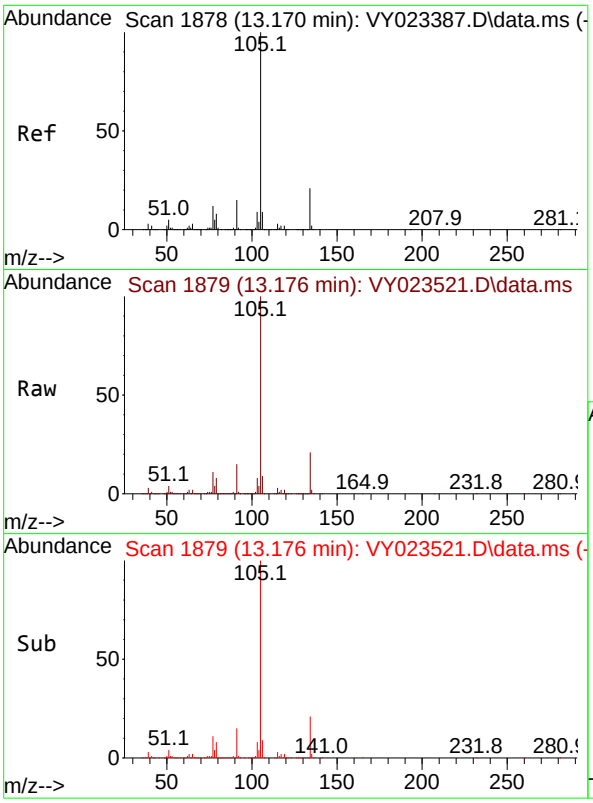


#84
1,2,4-Trimethylbenzene
Concen: 56.428 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:105 Resp: 1024486

Ion	Ratio	Lower	Upper
105	100		
120	47.3	23.8	71.2

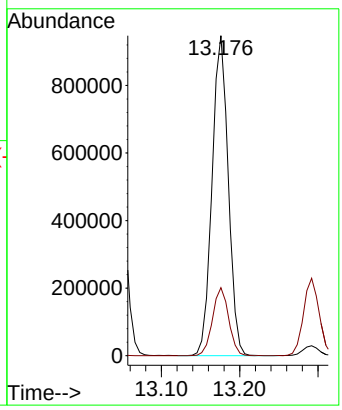




#85
sec-Butylbenzene
Concen: 56.437 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:105 Resp: 135984

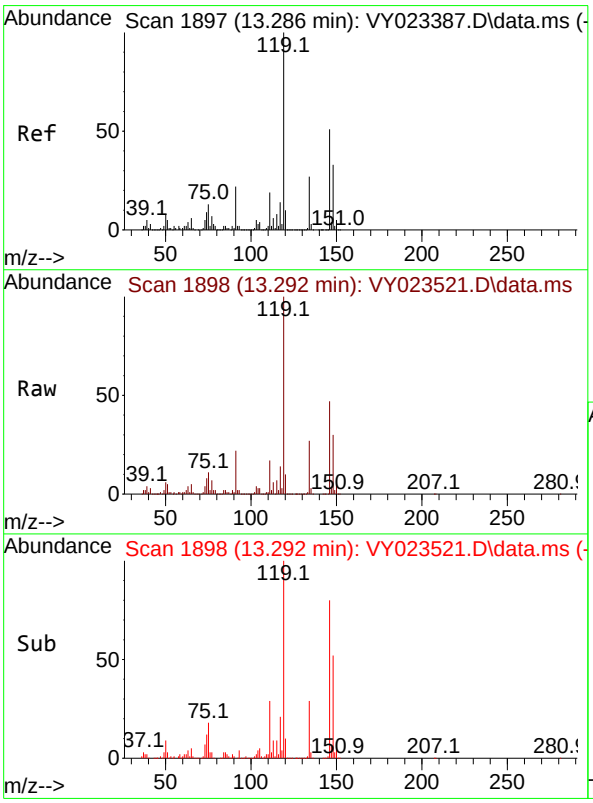
Ion	Ratio	Lower	Upper
105	100		
134	21.2	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

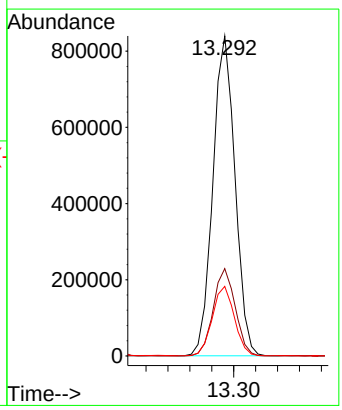
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

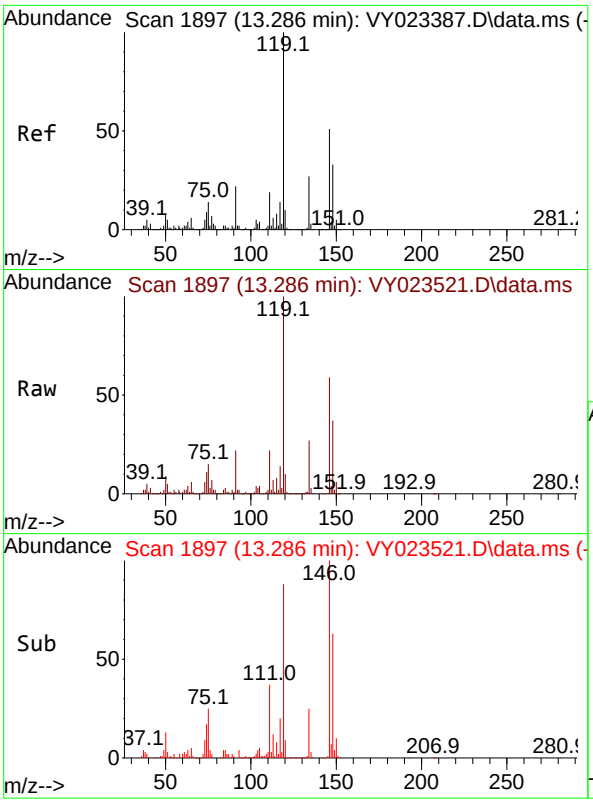


#86
p-Isopropyltoluene
Concen: 57.354 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:119 Resp: 1176613

Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.6	40.7
91	21.7	10.9	32.9

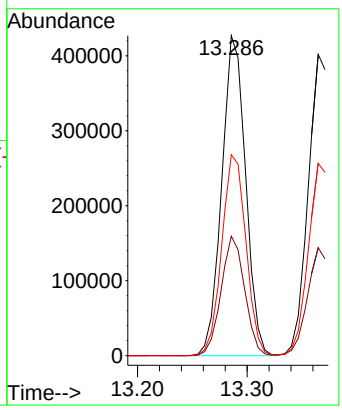




#87
1,3-Dichlorobenzene
Concen: 55.296 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:146 Resp: 64446

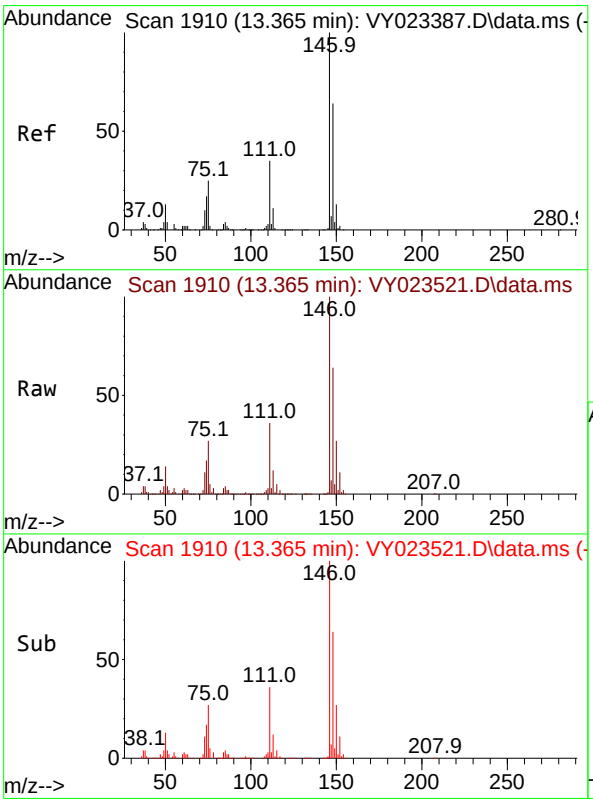
Ion	Ratio	Lower	Upper
146	100		
111	36.9	18.7	56.1
148	63.8	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

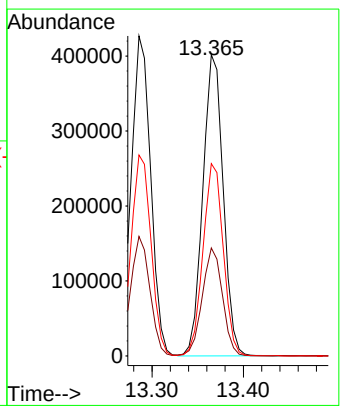
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

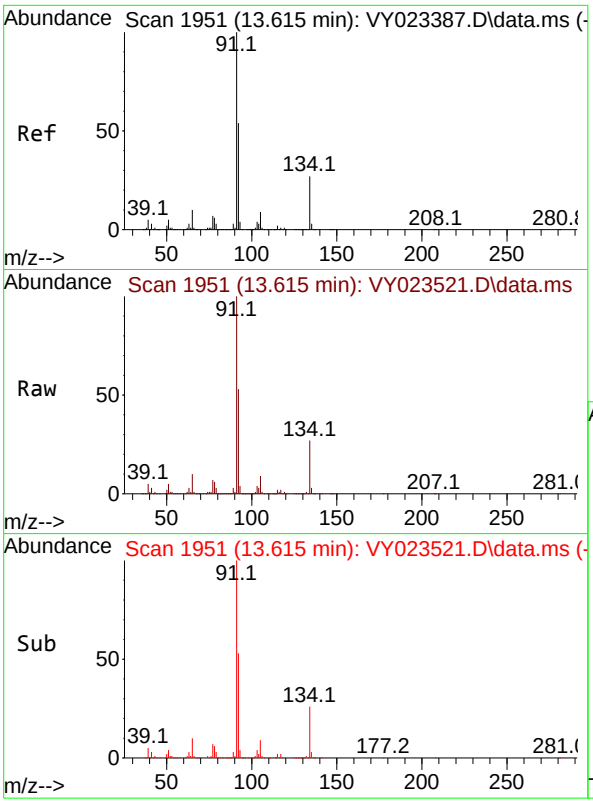


#88
1,4-Dichlorobenzene
Concen: 53.800 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:146 Resp: 619278

Ion	Ratio	Lower	Upper
146	100		
111	35.7	18.0	54.0
148	63.7	31.9	95.7

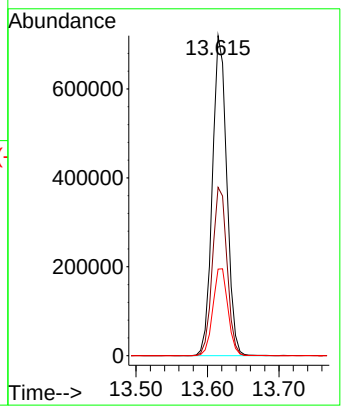




#89
n-Butylbenzene
Concen: 56.295 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 91 Resp: 100629

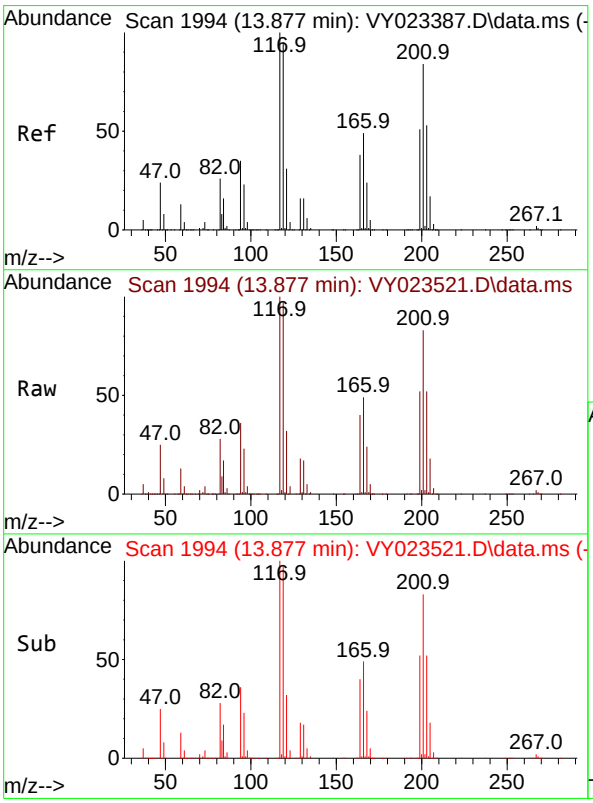
Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.0	80.8
134	28.4	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

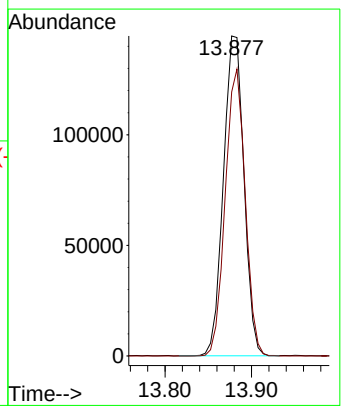
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

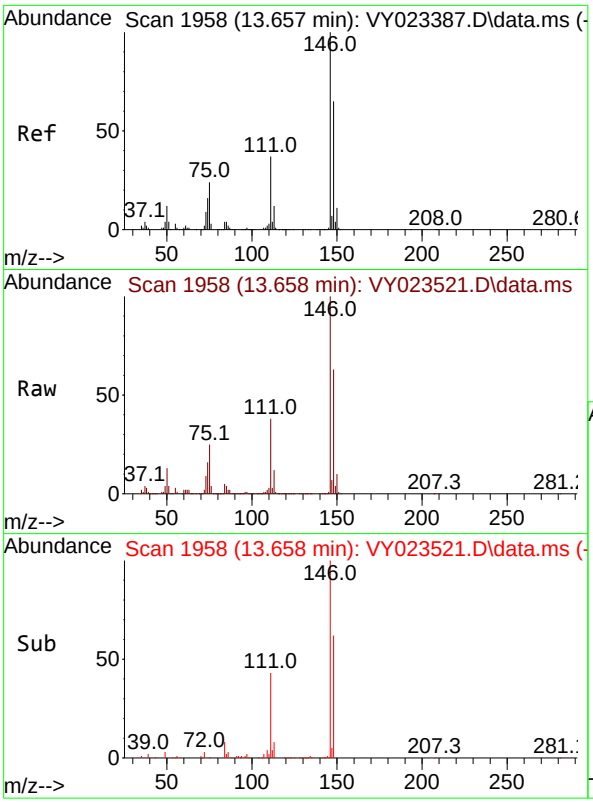


#90
Hexachloroethane
Concen: 54.052 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:117 Resp: 238499

Ion	Ratio	Lower	Upper
117	100		
201	87.0	43.8	131.4

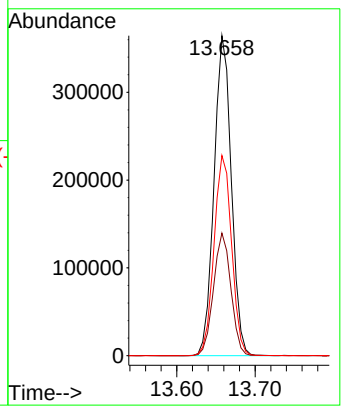




#91
1,2-Dichlorobenzene
Concen: 54.620 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

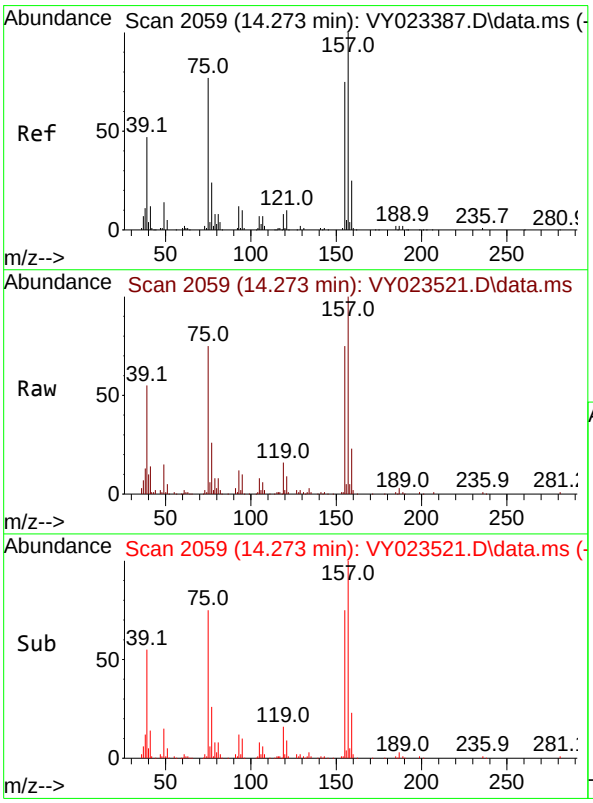
Tgt Ion:146 Resp: 55811

Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.0	57.0
148	63.9	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

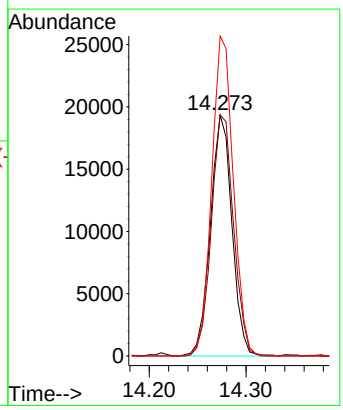
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

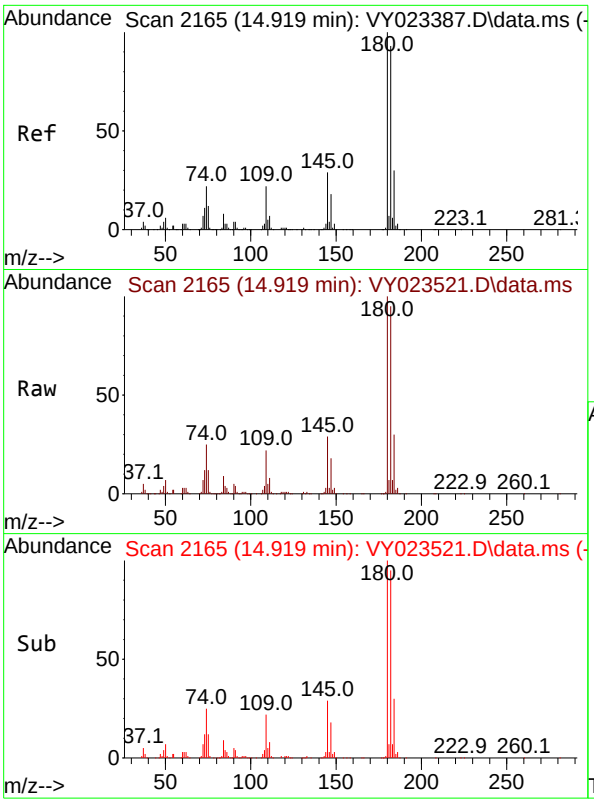


#92
1,2-Dibromo-3-Chloropropane
Concen: 49.569 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion: 75 Resp: 29948

Ion	Ratio	Lower	Upper
75	100		
155	102.7	50.0	150.0
157	133.3	63.8	191.5

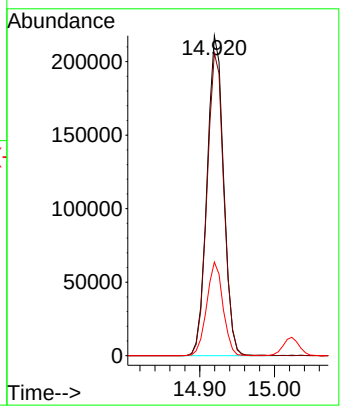




#93
1,2,4-Trichlorobenzene
Concen: 52.665 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:180 Resp: 33548

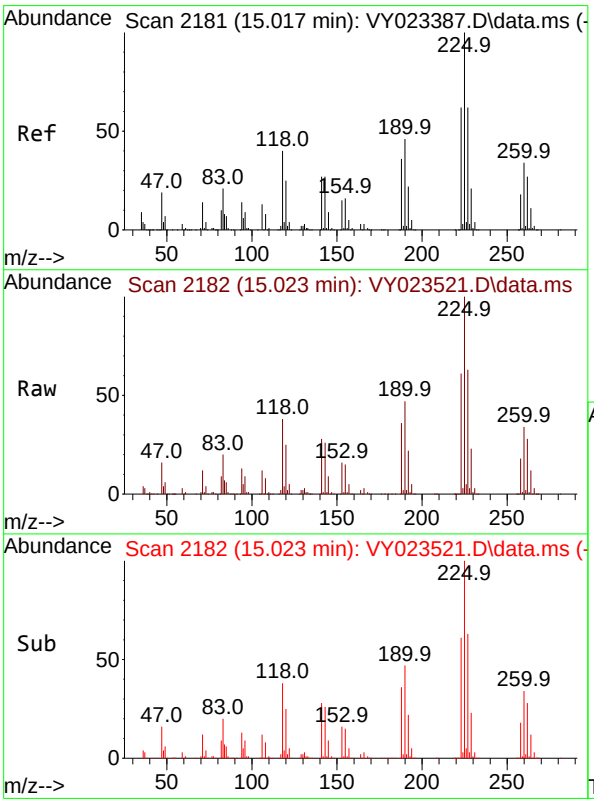
Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.9	143.6
145	28.7	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

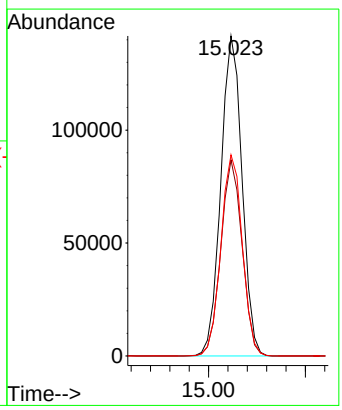
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

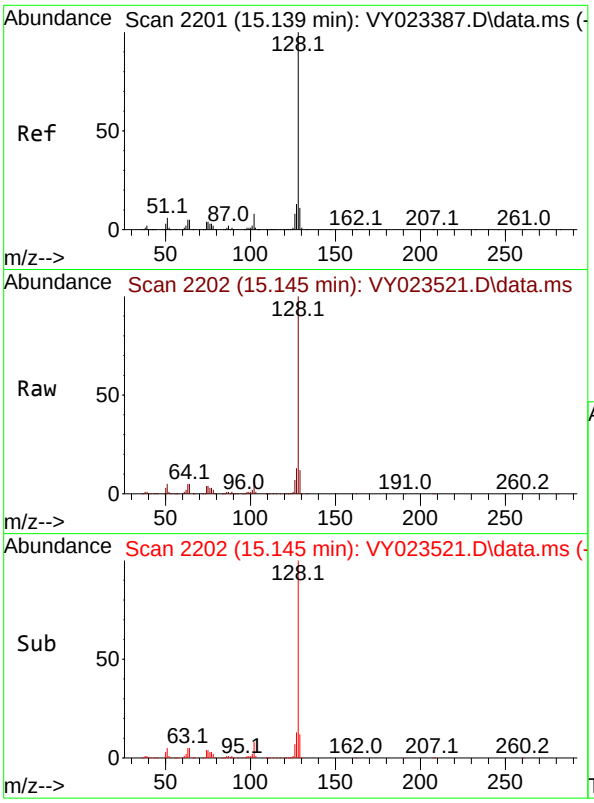


#94
Hexachlorobutadiene
Concen: 54.210 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:225 Resp: 215262

Ion	Ratio	Lower	Upper
225	100		
223	61.4	30.8	92.3
227	63.6	31.9	95.7

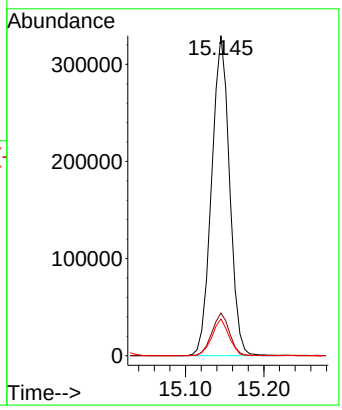




#95
Naphthalene
Concen: 51.618 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:128 Resp: 52360

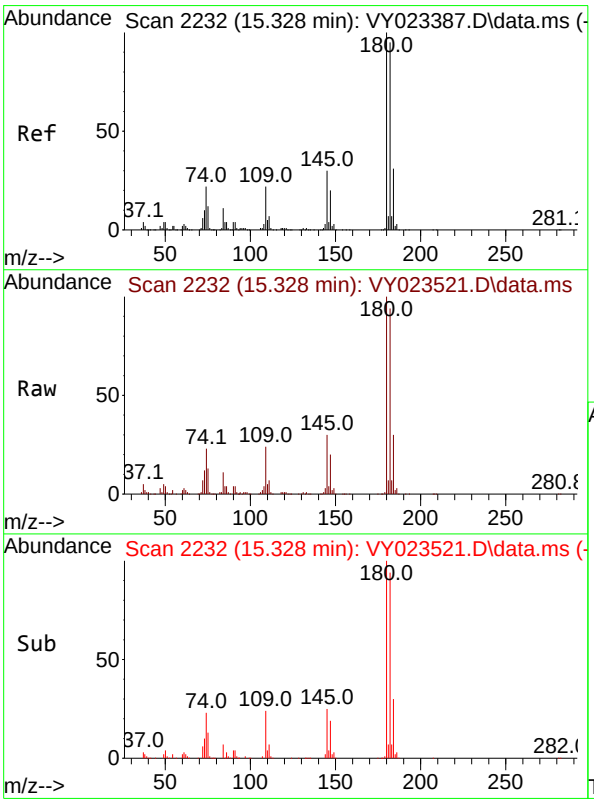
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.4	15.6
129	10.9	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

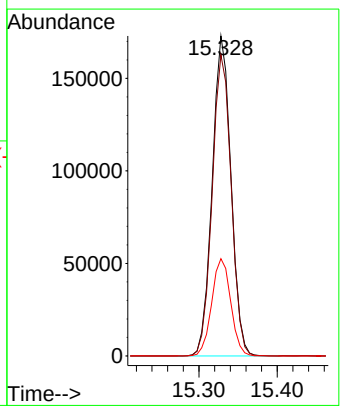
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.203 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.000 min
Lab File: VY023521.D
Acq: 21 Oct 2025 09:05

Tgt Ion:180 Resp: 288040

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.9	143.8
145	30.9	15.3	45.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023521.D
Acq On : 21 Oct 2025 09:05
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: Oct 24 01:20:49 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	85	0.00
2	T	Dichlorodifluoromethane	0.360	0.323	10.3	85	0.00
3	P	Chloromethane	0.490	0.450	8.2	85	0.00
4	C	Vinyl Chloride	0.639	0.605	5.3#	86	0.00
5	T	Bromomethane	0.536	0.513	4.3	93	0.00
6	T	Chloroethane	0.435	0.447	-2.8	91	0.00
7	T	Trichlorofluoromethane	0.887	0.883	0.5	89	0.00
8	T	Diethyl Ether	0.232	0.232	0.0	92	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.460	0.490	-6.5	95	0.00
10	T	Methyl Iodide	0.512	0.579	-13.1	91	0.01
11	T	Tert butyl alcohol	0.031	0.035	-12.9	117	-0.01
12	CM	1,1-Dichloroethene	0.446	0.455	-2.0#	90	0.00
13	T	Acrolein	0.044	0.015	65.9#	30#	0.00
14	T	Allyl chloride	0.544	0.522	4.0	84	0.01
15	T	Acrylonitrile	0.089	0.094	-5.6	97	0.00
16	T	Acetone	0.100	0.113	-13.0	114	0.00
17	T	Carbon Disulfide	1.277	1.260	1.3	87	0.00
18	T	Methyl Acetate	0.261	0.303	-16.1	105	0.00
19	T	Methyl tert-butyl Ether	1.072	1.116	-4.1	93	0.00
20	T	Methylene Chloride	0.538	0.509	5.4	94	0.00
21	T	trans-1,2-Dichloroethene	0.491	0.520	-5.9	94	0.00
22	T	Diisopropyl ether	1.202	1.245	-3.6	91	0.00
23	T	Vinyl Acetate	0.651	0.646	0.8	88	0.00
24	P	1,1-Dichloroethane	0.796	0.840	-5.5	94	0.00
25	T	2-Butanone	0.122	0.124	-1.6	100	0.00
26	T	2,2-Dichloropropane	0.731	0.783	-7.1	94	0.00
27	T	cis-1,2-Dichloroethene	0.567	0.614	-8.3	96	0.00
28	T	Bromochloromethane	0.297	0.269	9.4	85	0.00
29	T	Tetrahydrofuran	0.069	0.068	1.4	91	0.00
30	C	Chloroform	0.875	0.960	-9.7#	97	0.00
31	T	Cyclohexane	0.696	0.643	7.6	85	0.00
32	T	1,1,1-Trichloroethane	0.795	0.859	-8.1	95	0.00
33	S	1,2-Dichloroethane-d4	0.418	0.408	2.4	88	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
35	S	Dibromofluoromethane	0.307	0.331	-7.8	90	0.00
36	T	1,1-Dichloropropene	0.407	0.457	-12.3	93	0.00
37	T	Ethyl Acetate	0.161	0.173	-7.5	94	0.00
38	T	Carbon Tetrachloride	0.493	0.562	-14.0	95	0.00
39	T	Methylcyclohexane	0.530	0.568	-7.2	88	0.00
40	TM	Benzene	1.288	1.448	-12.4	94	0.00
41	T	Methacrylonitrile	0.087	0.081	6.9	82	0.00
42	TM	1,2-Dichloroethane	0.332	0.360	-8.4	93	0.00
43	T	Isopropyl Acetate	0.321	0.332	-3.4	90	0.00
44	TM	Trichloroethene	0.377	0.421	-11.7	93	0.00
45	C	1,2-Dichloropropane	0.285	0.320	-12.3#	95	0.00
46	T	Dibromomethane	0.180	0.210	-16.7	99	0.00
47	T	Bromodichloromethane	0.453	0.522	-15.2	97	0.00
48	T	Methyl methacrylate	0.151	0.159	-5.3	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023521.D
Acq On : 21 Oct 2025 09:05
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: Oct 24 01:20:49 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	90	0.00
50	S	Toluene-d8	1.144	1.218	-6.5	88	0.00
51	T	4-Methyl-2-Pentanone	0.166	0.186	-12.0	95	0.00
52	CM	Toluene	0.836	0.967	-15.7#	95	0.00
53	T	t-1,3-Dichloropropene	0.394	0.441	-11.9	93	0.00
54	T	cis-1,3-Dichloropropene	0.465	0.524	-12.7	94	0.00
55	T	1,1,2-Trichloroethane	0.242	0.285	-17.8	100	0.00
56	T	Ethyl methacrylate	0.279	0.319	-14.3	93	0.00
57	T	1,3-Dichloropropane	0.383	0.440	-14.9	96	0.00
58	T	2-Chloroethyl Vinyl ether	0.125	0.140	-12.0	88	0.00
59	T	2-Hexanone	0.119	0.135	-13.4	98	0.00
60	T	Dibromochloromethane	0.339	0.403	-18.9	100	0.00
61	T	1,2-Dibromoethane	0.231	0.269	-16.5	98	0.00
62	S	4-Bromofluorobenzene	0.378	0.405	-7.1	90	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64	T	Tetrachloroethene	0.516	0.575	-11.4	94	0.00
65	PM	Chlorobenzene	1.087	1.181	-8.6	96	0.00
66	T	1,1,1,2-Tetrachloroethane	0.388	0.436	-12.4	100	0.00
67	C	Ethyl Benzene	1.760	1.961	-11.4#	95	0.00
68	T	m/p-Xylenes	0.706	0.799	-13.2	95	0.00
69	T	o-Xylene	0.662	0.739	-11.6	95	0.00
70	T	Styrene	1.089	1.261	-15.8	97	0.00
71	P	Bromoform	0.240	0.269	-12.1	100	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
73	T	Isopropylbenzene	3.295	3.640	-10.5	96	0.00
74	T	N-amyl acetate	0.592	0.592	0.0	89	0.00
75	P	1,1,2,2-Tetrachloroethane	0.539	0.571	-5.9	100	0.00
76	T	1,2,3-Trichloropropane	0.441	0.442	-0.2	89	0.00
77	T	Bromobenzene	0.876	0.950	-8.4	98	0.00
78	T	n-propylbenzene	3.813	4.268	-11.9	96	0.00
79	T	2-Chlorotoluene	2.233	2.432	-8.9	95	0.00
80	T	1,3,5-Trimethylbenzene	2.663	3.006	-12.9	97	0.00
81	T	trans-1,4-Dichloro-2-butene	0.180	0.181	-0.6	93	0.00
82	T	4-Chlorotoluene	2.300	2.543	-10.6	97	0.00
83	T	tert-Butylbenzene	2.458	2.746	-11.7	95	0.00
84	T	1,2,4-Trimethylbenzene	2.657	2.999	-12.9	97	0.00
85	T	sec-Butylbenzene	3.527	3.981	-12.9	97	0.00
86	T	p-Isopropyltoluene	3.003	3.444	-14.7	97	0.00
87	T	1,3-Dichlorobenzene	1.706	1.887	-10.6	99	0.00
88	T	1,4-Dichlorobenzene	1.685	1.813	-7.6	97	0.00
89	T	n-Butylbenzene	2.616	2.946	-12.6	96	0.00
90	T	Hexachloroethane	0.646	0.698	-8.0	97	0.00
91	T	1,2-Dichlorobenzene	1.496	1.634	-9.2	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.088	0.088	0.0	92	0.00
93	T	1,2,4-Trichlorobenzene	0.932	0.982	-5.4	93	0.00
94	T	Hexachlorobutadiene	0.581	0.630	-8.4	95	0.00
95	T	Naphthalene	1.485	1.533	-3.2	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023521.D
Acq On : 21 Oct 2025 09:05
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: Oct 24 01:20:49 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	0.843	-4.3	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023521.D
Acq On : 21 Oct 2025 09:05
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: Oct 24 01:20:49 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	85	0.00
2	T	Dichlorodifluoromethane	50.000	44.813	10.4	85	0.00
3	P	Chloromethane	50.000	45.905	8.2	85	0.00
4	C	Vinyl Chloride	50.000	47.380	5.2#	86	0.00
5	T	Bromomethane	50.000	47.876	4.2	93	0.00
6	T	Chloroethane	50.000	51.292	-2.6	91	0.00
7	T	Trichlorofluoromethane	50.000	49.812	0.4	89	0.00
8	T	Diethyl Ether	50.000	50.089	-0.2	92	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	53.302	-6.6	95	0.00
10	T	Methyl Iodide	50.000	56.473	-12.9	91	0.01
11	T	Tert butyl alcohol	250.000	277.313	-10.9	117	-0.01
12	CM	1,1-Dichloroethene	50.000	51.029	-2.1#	90	0.00
13	T	Acrolein	250.000	84.654	66.1#	30	0.00
14	T	Allyl chloride	50.000	48.058	3.9	84	0.01
15	T	Acrylonitrile	250.000	263.862	-5.5	97	0.00
16	T	Acetone	250.000	283.840	-13.5	114	0.00
17	T	Carbon Disulfide	50.000	49.345	1.3	87	0.00
18	T	Methyl Acetate	50.000	57.978	-16.0	105	0.00
19	T	Methyl tert-butyl Ether	50.000	52.056	-4.1	93	0.00
20	T	Methylene Chloride	50.000	47.285	5.4	94	0.00
21	T	trans-1,2-Dichloroethene	50.000	52.909	-5.8	94	0.00
22	T	Diisopropyl ether	50.000	51.770	-3.5	91	0.00
23	T	Vinyl Acetate	250.000	248.276	0.7	88	0.00
24	P	1,1-Dichloroethane	50.000	52.756	-5.5	94	0.00
25	T	2-Butanone	250.000	255.620	-2.2	100	0.00
26	T	2,2-Dichloropropane	50.000	53.566	-7.1	94	0.00
27	T	cis-1,2-Dichloroethene	50.000	54.150	-8.3	96	0.00
28	T	Bromochloromethane	50.000	45.218	9.6	85	0.00
29	T	Tetrahydrofuran	250.000	248.167	0.7	91	0.00
30	C	Chloroform	50.000	54.848	-9.7#	97	0.00
31	T	Cyclohexane	50.000	46.252	7.5	85	0.00
32	T	1,1,1-Trichloroethane	50.000	54.031	-8.1	95	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.767	2.5	88	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	81	0.00
35	S	Dibromofluoromethane	50.000	53.936	-7.9	90	0.00
36	T	1,1-Dichloropropene	50.000	56.137	-12.3	93	0.00
37	T	Ethyl Acetate	50.000	53.760	-7.5	94	0.00
38	T	Carbon Tetrachloride	50.000	57.004	-14.0	95	0.00
39	T	Methylcyclohexane	50.000	53.642	-7.3	88	0.00
40	TM	Benzene	50.000	56.189	-12.4	94	0.00
41	T	Methacrylonitrile	50.000	46.396	7.2	82	0.00
42	TM	1,2-Dichloroethane	50.000	54.158	-8.3	93	0.00
43	T	Isopropyl Acetate	50.000	51.687	-3.4	90	0.00
44	TM	Trichloroethene	50.000	55.852	-11.7	93	0.00
45	C	1,2-Dichloropropane	50.000	56.253	-12.5#	95	0.00
46	T	Dibromomethane	50.000	58.489	-17.0	99	0.00
47	T	Bromodichloromethane	50.000	57.621	-15.2	97	0.00
48	T	Methyl methacrylate	50.000	52.590	-5.2	87	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023521.D
Acq On : 21 Oct 2025 09:05
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: Oct 24 01:20:49 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	1051.234	-5.1	90	0.00
50	S	Toluene-d8	50.000	53.217	-6.4	88	0.00
51	T	4-Methyl-2-Pentanone	250.000	280.345	-12.1	95	0.00
52	CM	Toluene	50.000	57.818	-15.6#	95	0.00
53	T	t-1,3-Dichloropropene	50.000	55.984	-12.0	93	0.00
54	T	cis-1,3-Dichloropropene	50.000	56.399	-12.8	94	0.00
55	T	1,1,2-Trichloroethane	50.000	58.815	-17.6	100	0.00
56	T	Ethyl methacrylate	50.000	57.121	-14.2	93	0.00
57	T	1,3-Dichloropropane	50.000	57.370	-14.7	96	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	280.014	-12.0	88	0.00
59	T	2-Hexanone	250.000	285.033	-14.0	98	0.00
60	T	Dibromochloromethane	50.000	59.341	-18.7	100	0.00
61	T	1,2-Dibromoethane	50.000	58.304	-16.6	98	0.00
62	S	4-Bromofluorobenzene	50.000	53.656	-7.3	90	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64	T	Tetrachloroethene	50.000	55.688	-11.4	94	0.00
65	PM	Chlorobenzene	50.000	54.309	-8.6	96	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	56.268	-12.5	100	0.00
67	C	Ethyl Benzene	50.000	55.713	-11.4#	95	0.00
68	T	m/p-Xylenes	100.000	113.207	-13.2	95	0.00
69	T	o-Xylene	50.000	55.830	-11.7	95	0.00
70	T	Styrene	50.000	57.893	-15.8	97	0.00
71	P	Bromoform	50.000	56.019	-12.0	100	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	87	0.00
73	T	Isopropylbenzene	50.000	55.240	-10.5	96	0.00
74	T	N-amyl acetate	50.000	49.976	0.0	89	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	53.009	-6.0	100	0.00
76	T	1,2,3-Trichloropropane	50.000	50.129	-0.3	89	0.00
77	T	Bromobenzene	50.000	54.235	-8.5	98	0.00
78	T	n-propylbenzene	50.000	55.961	-11.9	96	0.00
79	T	2-Chlorotoluene	50.000	54.463	-8.9	95	0.00
80	T	1,3,5-Trimethylbenzene	50.000	56.451	-12.9	97	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.407	-0.8	93	0.00
82	T	4-Chlorotoluene	50.000	55.289	-10.6	97	0.00
83	T	tert-Butylbenzene	50.000	55.842	-11.7	95	0.00
84	T	1,2,4-Trimethylbenzene	50.000	56.428	-12.9	97	0.00
85	T	sec-Butylbenzene	50.000	56.437	-12.9	97	0.00
86	T	p-Isopropyltoluene	50.000	57.354	-14.7	97	0.00
87	T	1,3-Dichlorobenzene	50.000	55.296	-10.6	99	0.00
88	T	1,4-Dichlorobenzene	50.000	53.800	-7.6	97	0.00
89	T	n-Butylbenzene	50.000	56.295	-12.6	96	0.00
90	T	Hexachloroethane	50.000	54.052	-8.1	97	0.00
91	T	1,2-Dichlorobenzene	50.000	54.620	-9.2	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	49.569	0.9	92	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.665	-5.3	93	0.00
94	T	Hexachlorobutadiene	50.000	54.210	-8.4	95	0.00
95	T	Naphthalene	50.000	51.618	-3.2	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023521.D
Acq On : 21 Oct 2025 09:05
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: Oct 24 01:20:49 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	52.203	-4.4	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

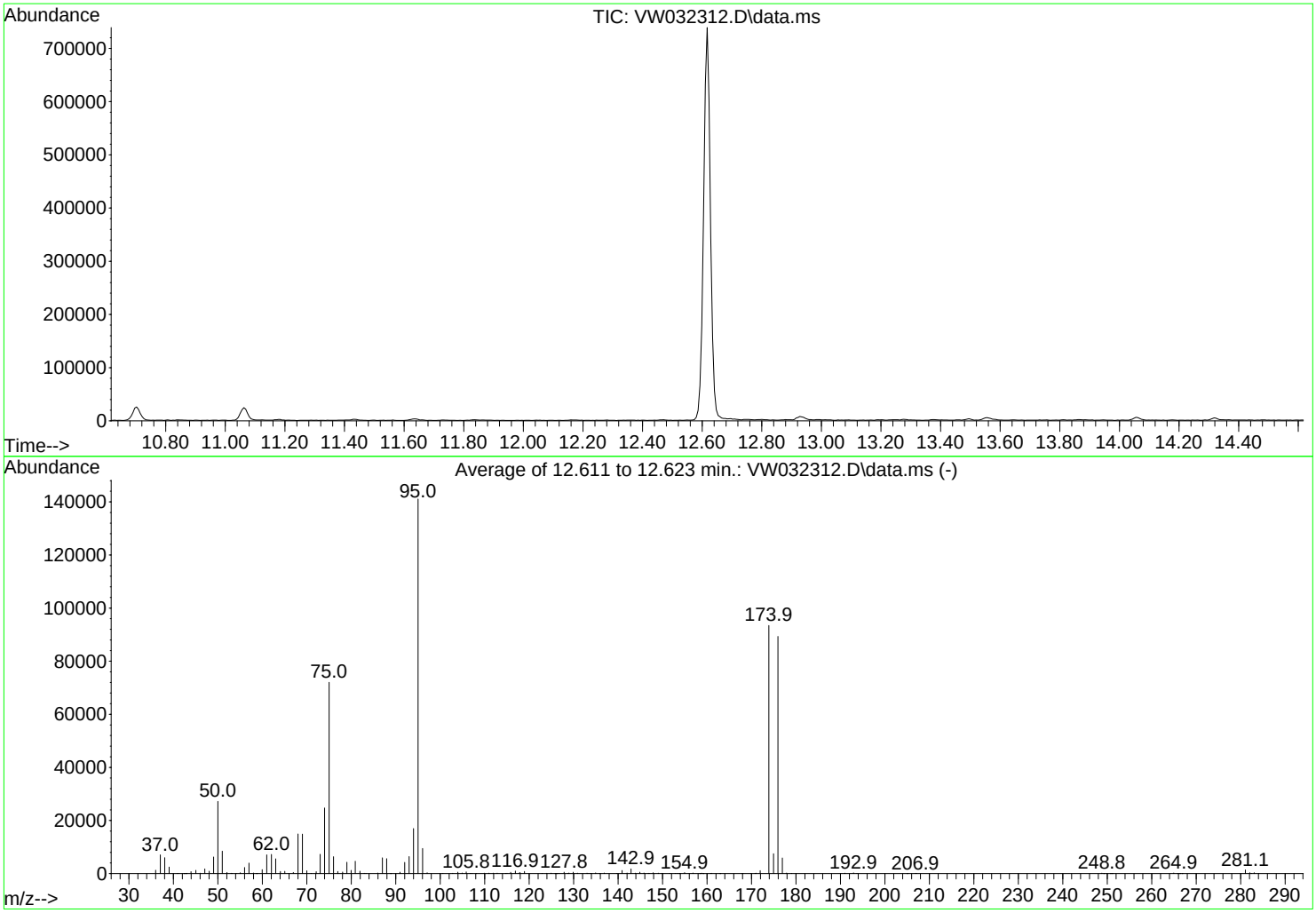
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100125\
Data File : VW032312.D
Acq On : 01 Oct 2025 08:12
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Title : SW846 8260
Last Update : Thu Oct 02 21:24:16 2025



AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1750

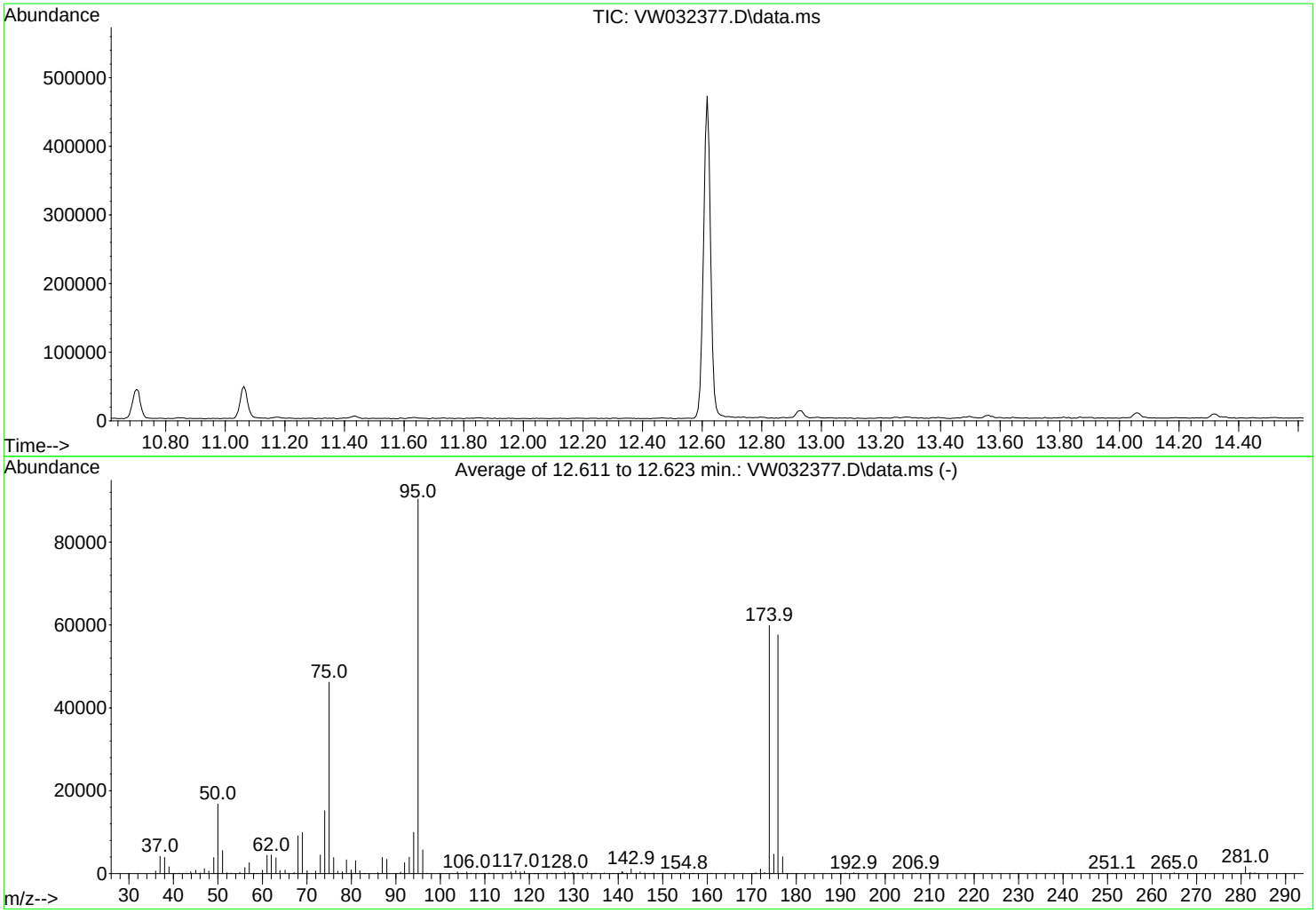
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.3	27221	PASS
75	95	30	60	51.1	72061	PASS
95	95	100	100	100.0	141091	PASS
96	95	5	9	6.7	9491	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.2	93424	PASS
175	174	5	9	8.0	7516	PASS
176	174	95	101	95.6	89325	PASS
177	176	5	9	6.6	5907	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032377.D
Acq On : 20 Oct 2025 09:36
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Title : SW846 8260
Last Update : Thu Oct 02 21:24:16 2025



AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1749

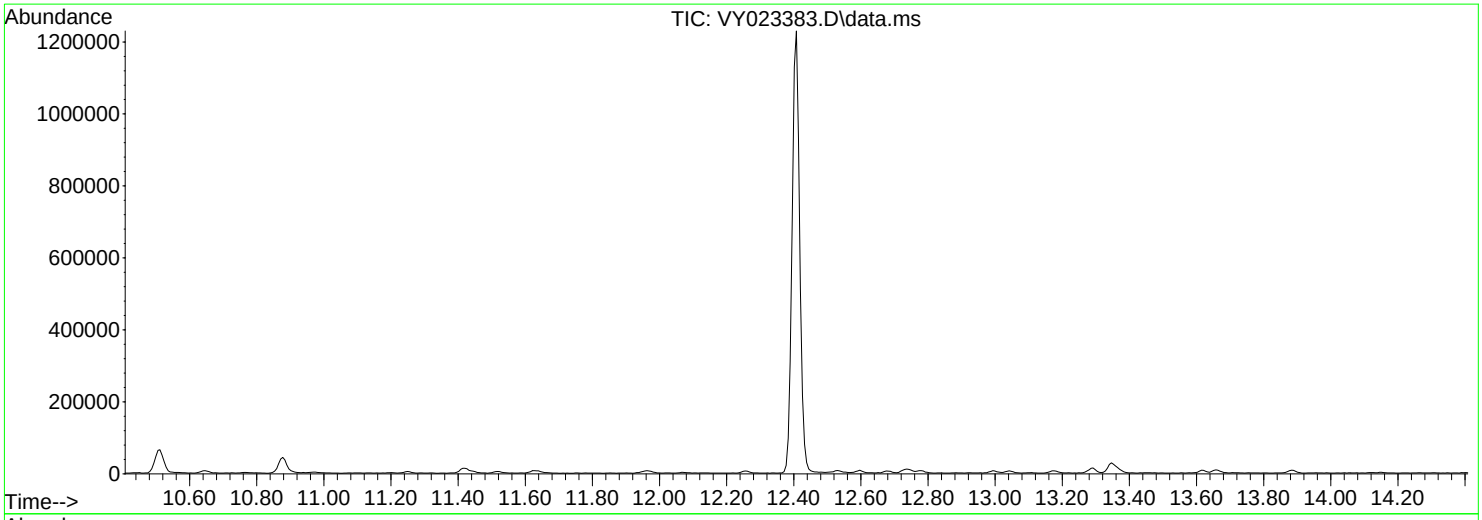
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	16809	PASS
75	95	30	60	51.1	46188	PASS
95	95	100	100	100.0	90408	PASS
96	95	5	9	6.3	5736	PASS
173	174	0.00	2	0.5	276	PASS
174	95	50	100	66.2	59875	PASS
175	174	5	9	7.8	4687	PASS
176	174	95	101	96.2	57613	PASS
177	176	5	9	7.0	4059	PASS

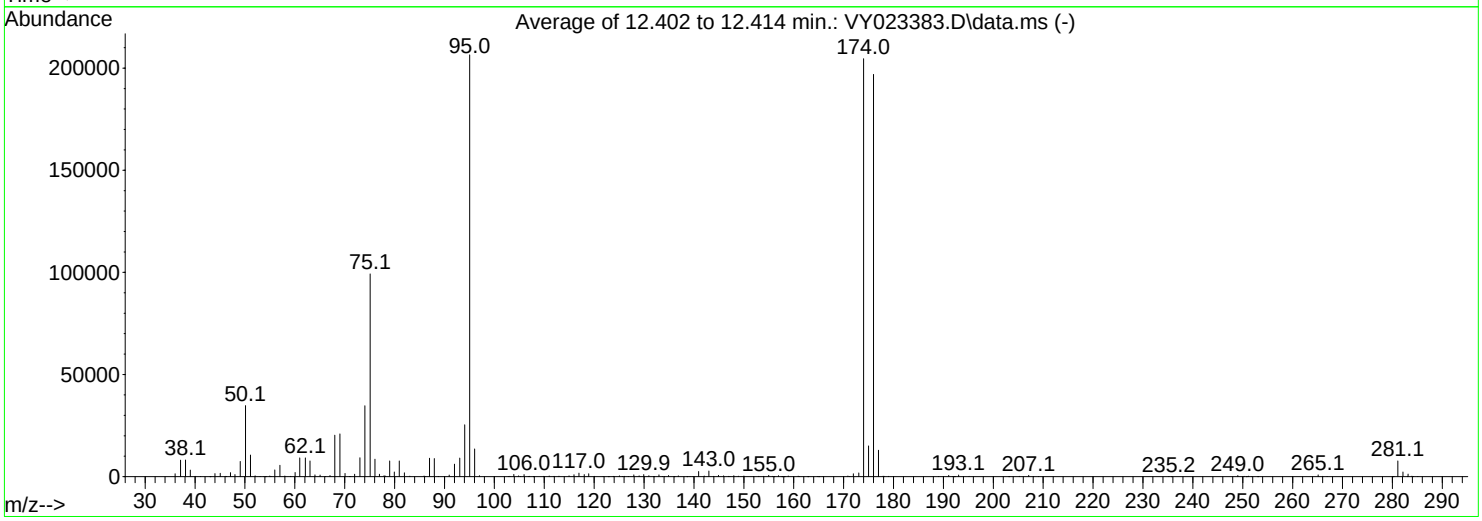
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100725\
Data File : VY023383.D
Acq On : 07 Oct 2025 08:43
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

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

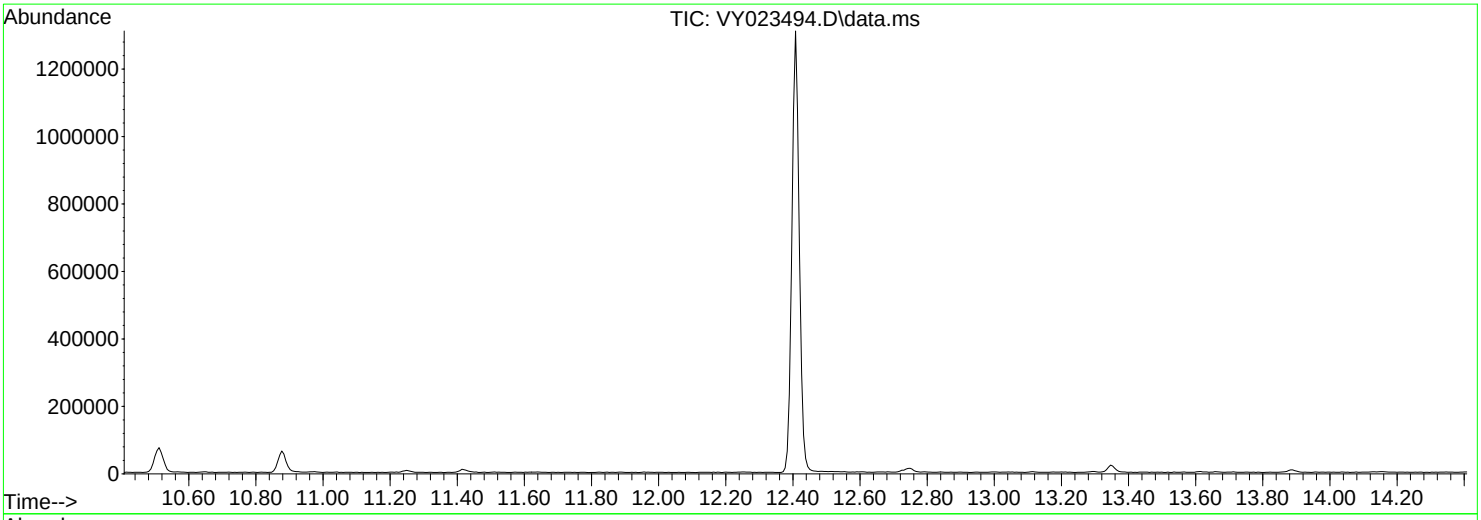
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	34816	PASS
75	95	30	60	48.1	99264	PASS
95	95	100	100	100.0	206507	PASS
96	95	5	9	6.6	13540	PASS
173	174	0.00	2	0.9	1817	PASS
174	95	50	100	99.1	204629	PASS
175	174	5	9	7.4	15059	PASS
176	174	95	101	96.2	196949	PASS
177	176	5	9	6.6	12912	PASS

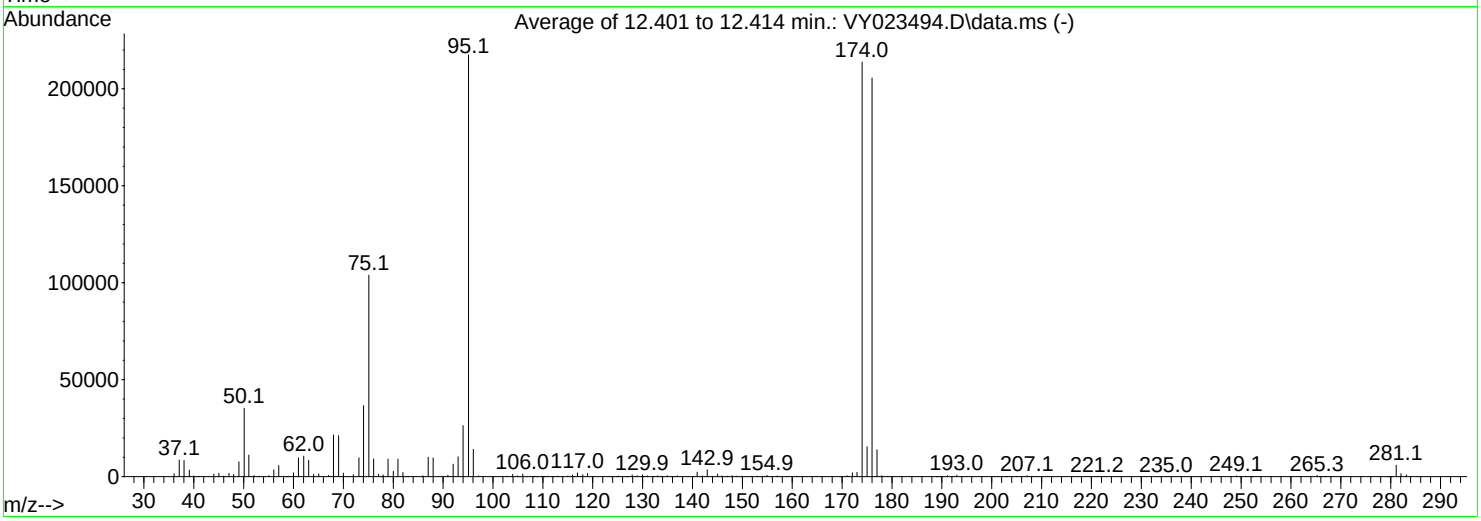
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023494.D
Acq On : 20 Oct 2025 08:38
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

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 1744

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	35325	PASS
75	95	30	60	47.8	103885	PASS
95	95	100	100	100.0	217515	PASS
96	95	5	9	6.5	14144	PASS
173	174	0.00	2	1.1	2271	PASS
174	95	50	100	98.3	213803	PASS
175	174	5	9	7.2	15453	PASS
176	174	95	101	96.2	205611	PASS
177	176	5	9	6.8	13880	PASS

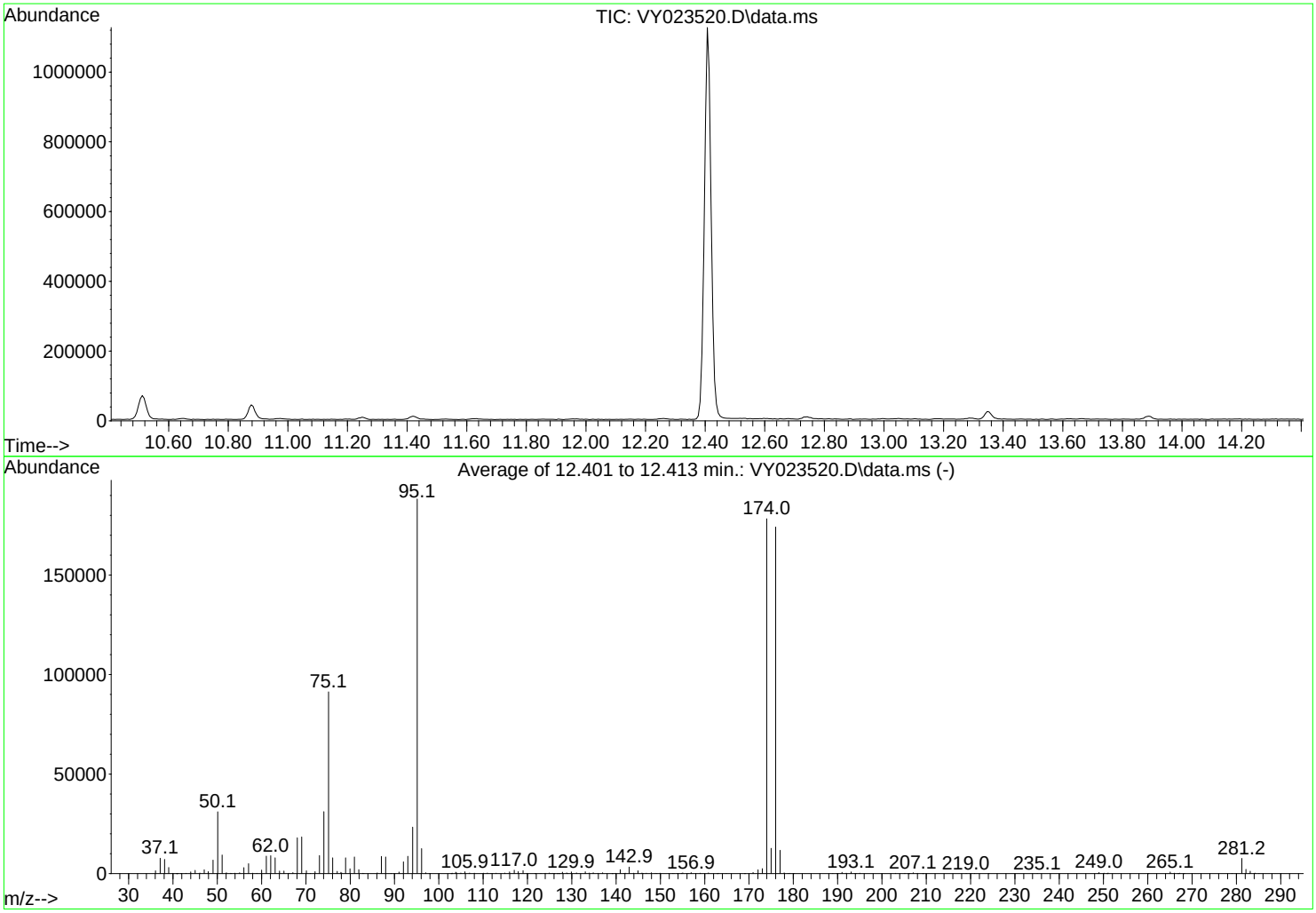
Sample Results: **VY023520.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023520.D
Acq On : 21 Oct 2025 08:29
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	16.5	31051	PASS
75	95	30	60	48.5	91288	PASS
95	95	100	100	100.0	188203	PASS
96	95	5	9	6.7	12595	PASS
173	174	0.00	2	1.4	2489	PASS
174	95	50	100	94.7	178283	PASS
175	174	5	9	7.1	12726	PASS
176	174	95	101	97.7	174101	PASS
177	176	5	9	6.7	11711	PASS

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VW1020SBL01	SDG No.:	Q3393
Lab Sample ID:	VW1020SBL01	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	5.00	U	1	1.10	5.00	ug/Kg	10/20/25 11:11	VW102025
74-87-3	Chloromethane	5.00	U	1	1.10	5.00	ug/Kg	10/20/25 11:11	VW102025
75-01-4	Vinyl Chloride	5.00	U	1	0.79	5.00	ug/Kg	10/20/25 11:11	VW102025
74-83-9	Bromomethane	5.00	U	1	1.10	5.00	ug/Kg	10/20/25 11:11	VW102025
75-00-3	Chloroethane	5.00	U	1	1.30	5.00	ug/Kg	10/20/25 11:11	VW102025
75-69-4	Trichlorofluoromethane	5.00	U	1	1.20	5.00	ug/Kg	10/20/25 11:11	VW102025
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	1	1.10	5.00	ug/Kg	10/20/25 11:11	VW102025
75-35-4	1,1-Dichloroethene	5.00	U	1	1.00	5.00	ug/Kg	10/20/25 11:11	VW102025
67-64-1	Acetone	25.0	U	1	4.70	25.0	ug/Kg	10/20/25 11:11	VW102025
75-15-0	Carbon Disulfide	5.00	U	1	1.10	5.00	ug/Kg	10/20/25 11:11	VW102025
1634-04-4	Methyl tert-butyl Ether	5.00	U	1	0.73	5.00	ug/Kg	10/20/25 11:11	VW102025
79-20-9	Methyl Acetate	5.00	U	1	1.50	5.00	ug/Kg	10/20/25 11:11	VW102025
75-09-2	Methylene Chloride	10.0	U	1	3.50	10.0	ug/Kg	10/20/25 11:11	VW102025
156-60-5	trans-1,2-Dichloroethene	5.00	U	1	0.86	5.00	ug/Kg	10/20/25 11:11	VW102025
75-34-3	1,1-Dichloroethane	5.00	U	1	0.80	5.00	ug/Kg	10/20/25 11:11	VW102025
110-82-7	Cyclohexane	5.00	U	1	0.79	5.00	ug/Kg	10/20/25 11:11	VW102025
78-93-3	2-Butanone	25.0	U	1	6.50	25.0	ug/Kg	10/20/25 11:11	VW102025
56-23-5	Carbon Tetrachloride	5.00	U	1	0.97	5.00	ug/Kg	10/20/25 11:11	VW102025
156-59-2	cis-1,2-Dichloroethene	5.00	U	1	0.75	5.00	ug/Kg	10/20/25 11:11	VW102025
74-97-5	Bromochloromethane	5.00	U	1	1.20	5.00	ug/Kg	10/20/25 11:11	VW102025
67-66-3	Chloroform	5.00	U	1	0.84	5.00	ug/Kg	10/20/25 11:11	VW102025
71-55-6	1,1,1-Trichloroethane	5.00	U	1	0.93	5.00	ug/Kg	10/20/25 11:11	VW102025
108-87-2	Methylcyclohexane	5.00	U	1	0.91	5.00	ug/Kg	10/20/25 11:11	VW102025
71-43-2	Benzene	5.00	U	1	0.79	5.00	ug/Kg	10/20/25 11:11	VW102025
107-06-2	1,2-Dichloroethane	5.00	U	1	0.79	5.00	ug/Kg	10/20/25 11:11	VW102025
79-01-6	Trichloroethene	5.00	U	1	0.81	5.00	ug/Kg	10/20/25 11:11	VW102025
78-87-5	1,2-Dichloropropane	5.00	U	1	0.91	5.00	ug/Kg	10/20/25 11:11	VW102025
75-27-4	Bromodichloromethane	5.00	U	1	0.78	5.00	ug/Kg	10/20/25 11:11	VW102025
108-10-1	4-Methyl-2-Pentanone	25.0	U	1	3.60	25.0	ug/Kg	10/20/25 11:11	VW102025
108-88-3	Toluene	5.00	U	1	0.78	5.00	ug/Kg	10/20/25 11:11	VW102025
10061-02-6	t-1,3-Dichloropropene	5.00	U	1	0.65	5.00	ug/Kg	10/20/25 11:11	VW102025
10061-01-5	cis-1,3-Dichloropropene	5.00	U	1	0.62	5.00	ug/Kg	10/20/25 11:11	VW102025
79-00-5	1,1,2-Trichloroethane	5.00	U	1	0.92	5.00	ug/Kg	10/20/25 11:11	VW102025
591-78-6	2-Hexanone	25.0	U	1	3.70	25.0	ug/Kg	10/20/25 11:11	VW102025
124-48-1	Dibromochloromethane	5.00	U	1	0.87	5.00	ug/Kg	10/20/25 11:11	VW102025
106-93-4	1,2-Dibromoethane	5.00	U	1	0.88	5.00	ug/Kg	10/20/25 11:11	VW102025
127-18-4	Tetrachloroethene	5.00	U	1	1.10	5.00	ug/Kg	10/20/25 11:11	VW102025
108-90-7	Chlorobenzene	5.00	U	1	0.91	5.00	ug/Kg	10/20/25 11:11	VW102025
100-41-4	Ethyl Benzene	5.00	U	1	0.67	5.00	ug/Kg	10/20/25 11:11	VW102025
179601-23-1	m/p-Xylenes	10.0	U	1	1.20	10.0	ug/Kg	10/20/25 11:11	VW102025
95-47-6	o-Xylene	5.00	U	1	0.82	5.00	ug/Kg	10/20/25 11:11	VW102025
100-42-5	Styrene	5.00	U	1	0.71	5.00	ug/Kg	10/20/25 11:11	VW102025
75-25-2	Bromoform	5.00	U	1	0.86	5.00	ug/Kg	10/20/25 11:11	VW102025

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VW1020SBL01	SDG No.:	Q3393
Lab Sample ID:	VW1020SBL01	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	5.00	U	1	0.78	5.00	ug/Kg	10/20/25 11:11	VW102025
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	1	1.20	5.00	ug/Kg	10/20/25 11:11	VW102025
541-73-1	1,3-Dichlorobenzene	5.00	U	1	1.70	5.00	ug/Kg	10/20/25 11:11	VW102025
106-46-7	1,4-Dichlorobenzene	5.00	U	1	1.60	5.00	ug/Kg	10/20/25 11:11	VW102025
95-50-1	1,2-Dichlorobenzene	5.00	U	1	1.50	5.00	ug/Kg	10/20/25 11:11	VW102025
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	U	1	1.80	5.00	ug/Kg	10/20/25 11:11	VW102025
120-82-1	1,2,4-Trichlorobenzene	5.00	U	1	3.00	5.00	ug/Kg	10/20/25 11:11	VW102025
87-61-6	1,2,3-Trichlorobenzene	5.00	U	1	3.20	5.00	ug/Kg	10/20/25 11:11	VW102025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	65.7			63 - 155	131%	SPK: 50		
1868-53-7	Dibromofluoromethane	58.2			70 - 134	116%	SPK: 50		
2037-26-5	Toluene-d8	54.5			74 - 123	109%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.8			17 - 146	104%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	172000							
540-36-3	1,4-Difluorobenzene	393000							
3114-55-4	Chlorobenzene-d5	401000							
3855-82-1	1,4-Dichlorobenzene-d4	189000							

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_W\Data\VW102025\
Data File : VW032379.D
Acq On : 20 Oct 2025 11:11
Operator : SY/MD
Sample : VW1020SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBL01

Quant Time: Oct 21 01:23:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

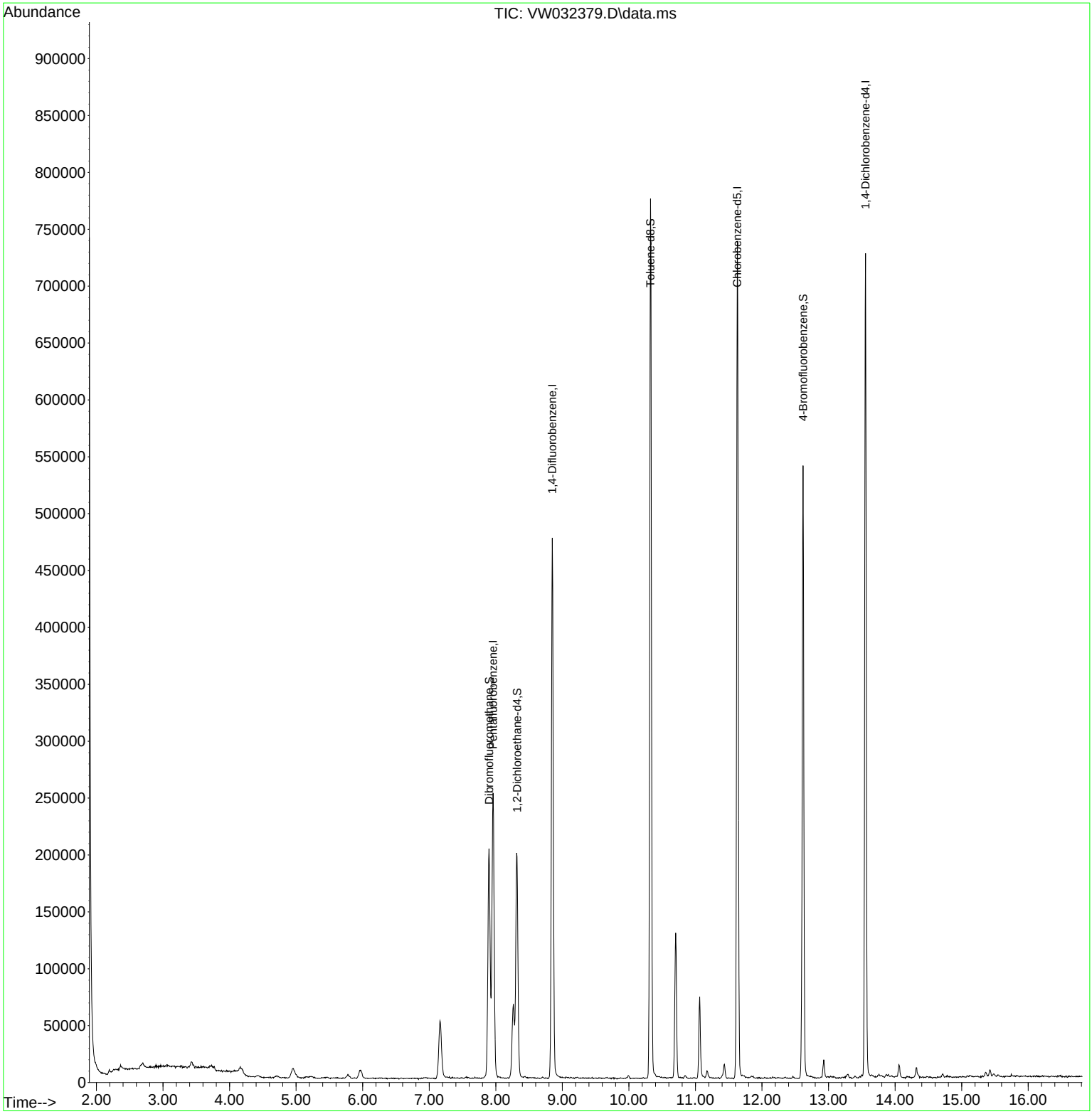
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.959	168	172114	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	392797	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	400571	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	188560	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	164963	65.712	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 131.420%			
35) Dibromofluoromethane	7.898	113	148107	58.223	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 116.440%			
50) Toluene-d8	10.325	98	512060	54.541	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 109.080%			
62) 4-Bromofluorobenzene	12.617	95	183742	51.779	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 103.560%			
Target Compounds						Qvalue

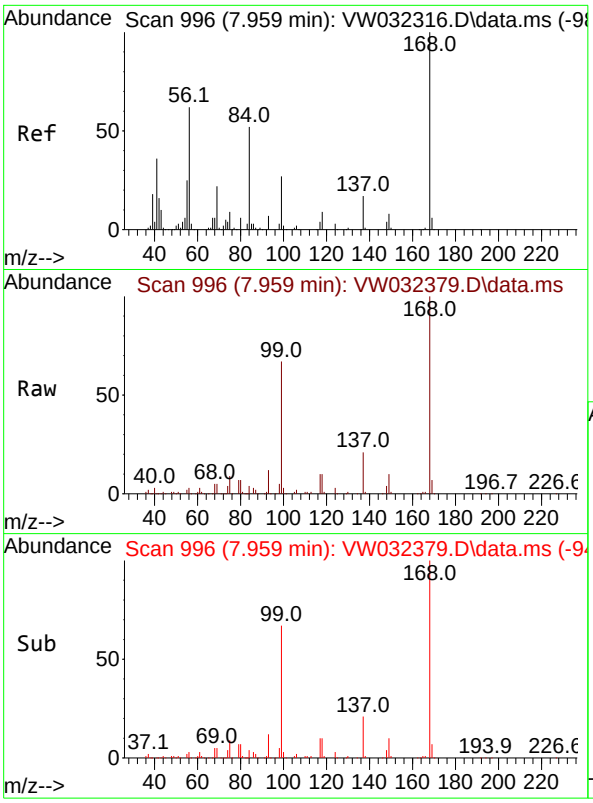
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032379.D
Acq On : 20 Oct 2025 11:11
Operator : SY/MD
Sample : VW1020SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBL01

Quant Time: Oct 21 01:23:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration



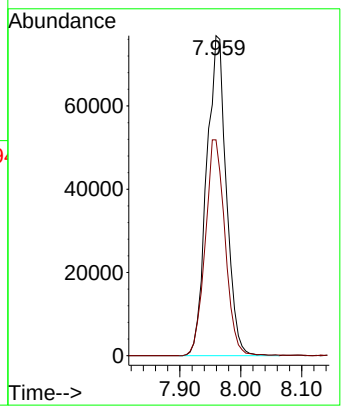


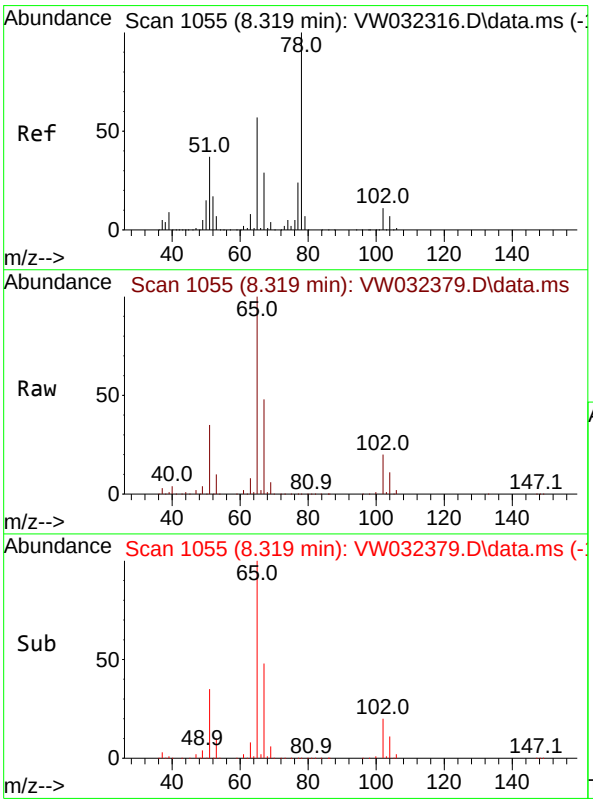
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032379.D
Acq: 20 Oct 2025 11:11

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBL01

Tgt Ion:168 Resp: 172114

Ion	Ratio	Lower	Upper
168	100		
99	67.4	49.3	73.9

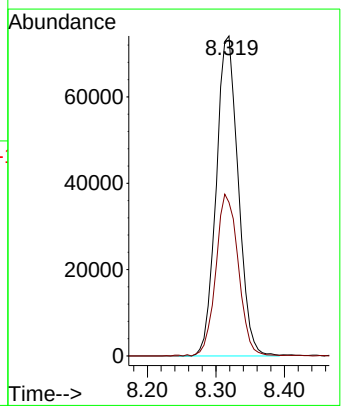


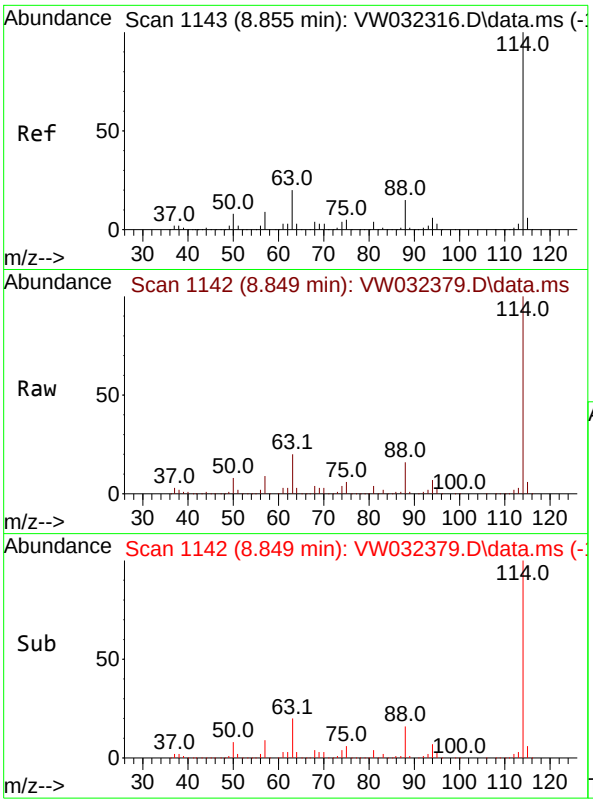


#33
1,2-Dichloroethane-d4
Concen: 65.712 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032379.D
Acq: 20 Oct 2025 11:11

Tgt Ion: 65 Resp: 164963

Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	99.6



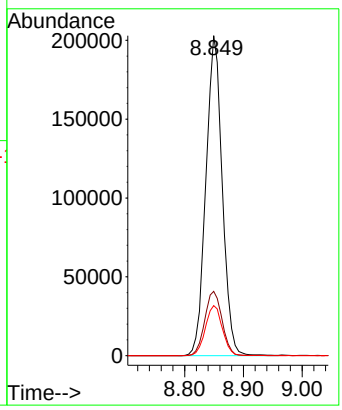


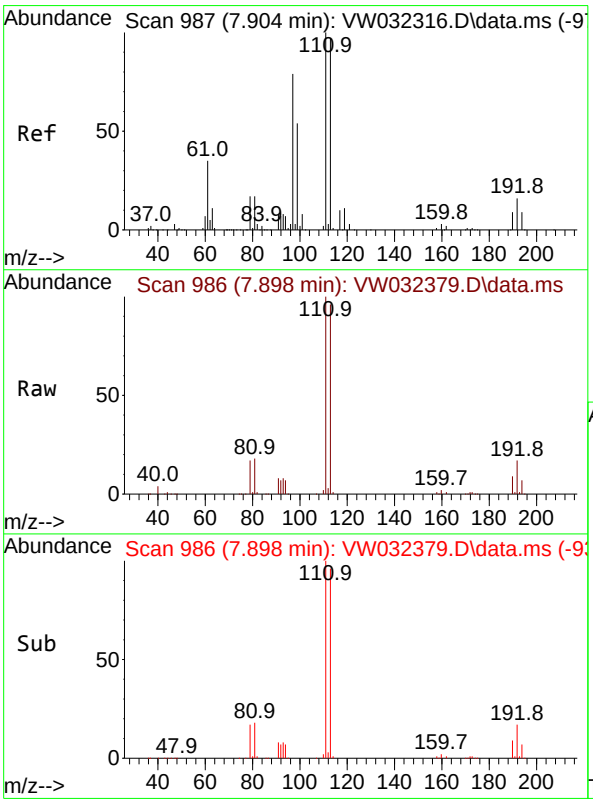
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. -0.006 min
Lab File: VW032379.D
Acq: 20 Oct 2025 11:11

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBL01

Tgt Ion:114 Resp: 392797

Ion	Ratio	Lower	Upper
114	100		
63	20.1	0.0	40.4
88	15.6	0.0	32.0

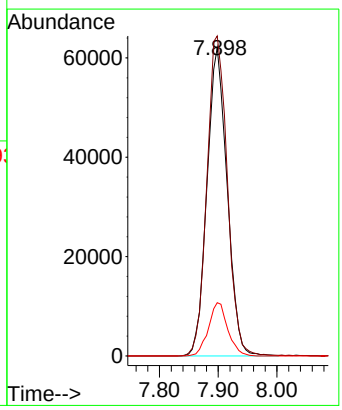


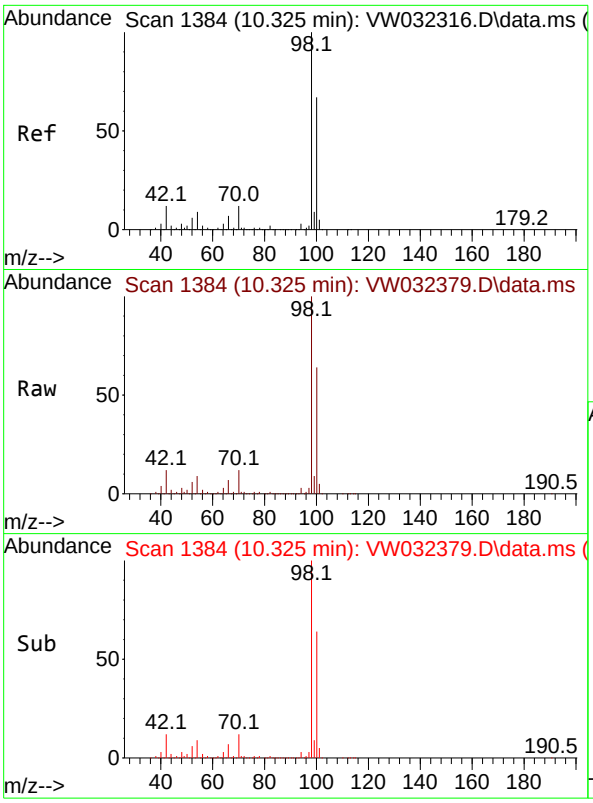


#35
Dibromofluoromethane
Concen: 58.223 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032379.D
Acq: 20 Oct 2025 11:11

Tgt Ion:113 Resp: 148107

Ion	Ratio	Lower	Upper
113	100		
111	105.1	83.9	125.9
192	16.6	14.6	21.8



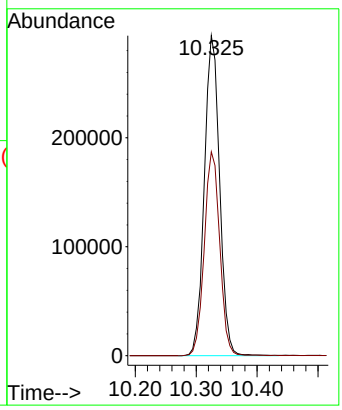


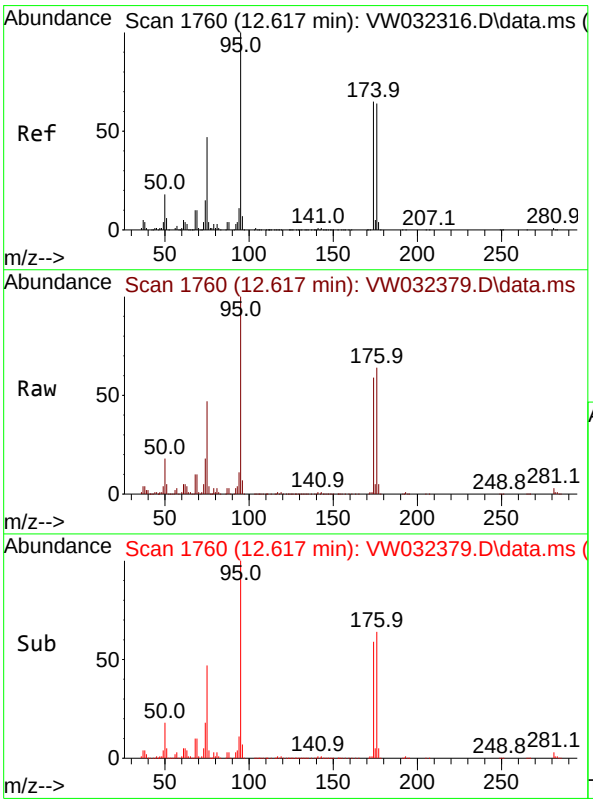
#50
Toluene-d8
Concen: 54.541 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032379.D
Acq: 20 Oct 2025 11:11

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBL01

Tgt Ion: 98 Resp: 512060

Ion	Ratio	Lower	Upper
98	100		
100	64.3	51.4	77.2

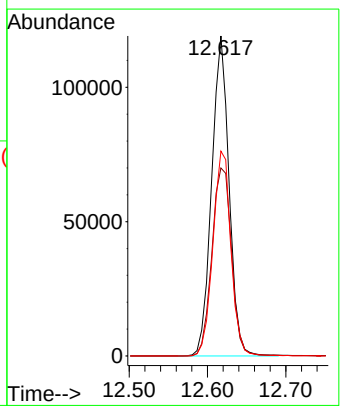


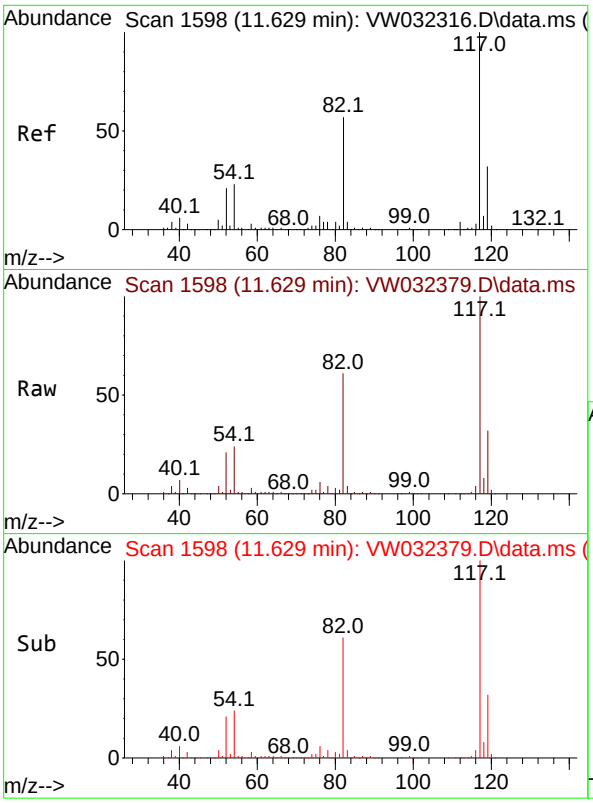


#62
4-Bromofluorobenzene
Concen: 51.779 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032379.D
Acq: 20 Oct 2025 11:11

Tgt Ion: 95 Resp: 183742

Ion	Ratio	Lower	Upper
95	100		
174	66.6	0.0	145.6
176	66.5	0.0	140.8



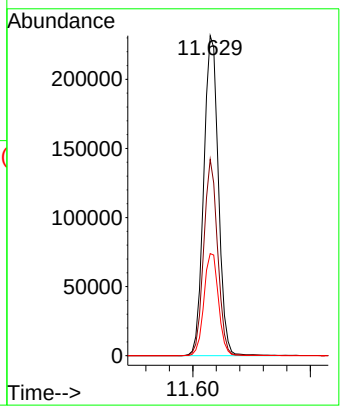


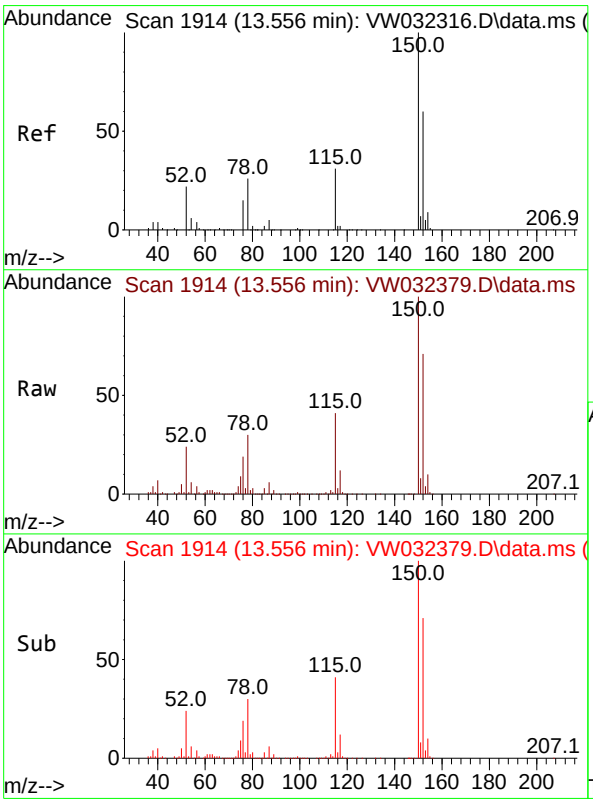
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032379.D
Acq: 20 Oct 2025 11:11

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBL01

Tgt Ion:117 Resp: 400571

Ion	Ratio	Lower	Upper
117	100		
82	61.4	42.7	64.1
119	31.9	25.2	37.8

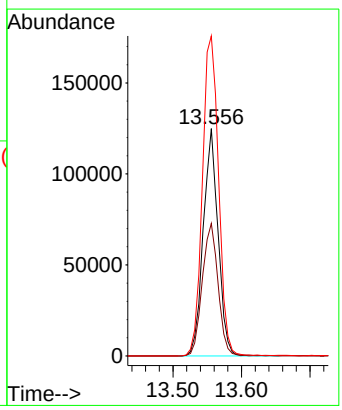




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032379.D
Acq: 20 Oct 2025 11:11

Tgt Ion:152 Resp: 188560

Ion	Ratio	Lower	Upper
152	100		
115	61.8	31.8	95.4
150	153.1	0.0	343.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032379.D
Acq On : 20 Oct 2025 11:11
Operator : SY/MD
Sample : VW1020SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBL01

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_W\Method\82W100125S.M
Title : SW846 8260

Signal : TIC: VW032379.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.698	124	133	143	rBV	5338	20772	1.52%	0.259%
2	4.954	490	503	514	rBV4	8460	34850	2.55%	0.434%
3	5.960	660	668	679	rBV6	7373	25495	1.87%	0.318%
4	7.161	855	865	879	rBV	50860	152704	11.17%	1.902%
5	7.898	972	986	991	rBV	201590	493964	36.14%	6.152%
6	7.959	991	996	1007	rVB2	249823	559899	40.97%	6.973%
7	8.264	1035	1046	1049	rBV	65149	158907	11.63%	1.979%
8	8.313	1049	1054	1069	rVB	197176	455083	33.30%	5.667%
9	8.849	1133	1142	1161	rBV	475057	956860	70.01%	11.916%
10	10.325	1375	1384	1399	rBV	772994	1366655	100.00%	17.020%
11	10.703	1437	1446	1454	rBV	127501	233716	17.10%	2.911%
12	11.062	1497	1505	1518	rBV	71876	126126	9.23%	1.571%
13	11.434	1554	1566	1574	rBV3	12762	28993	2.12%	0.361%
14	11.629	1589	1598	1608	rBV	735778	1259554	92.16%	15.686%
15	12.617	1750	1760	1771	rBV	538778	919358	67.27%	11.449%
16	12.928	1806	1811	1818	rVB2	15513	24399	1.79%	0.304%
17	13.556	1907	1914	1926	rVB	723062	1170596	85.65%	14.578%
18	14.056	1991	1996	2007	rVB	11711	22497	1.65%	0.280%
19	14.318	2032	2039	2047	rVB3	9025	19376	1.42%	0.241%

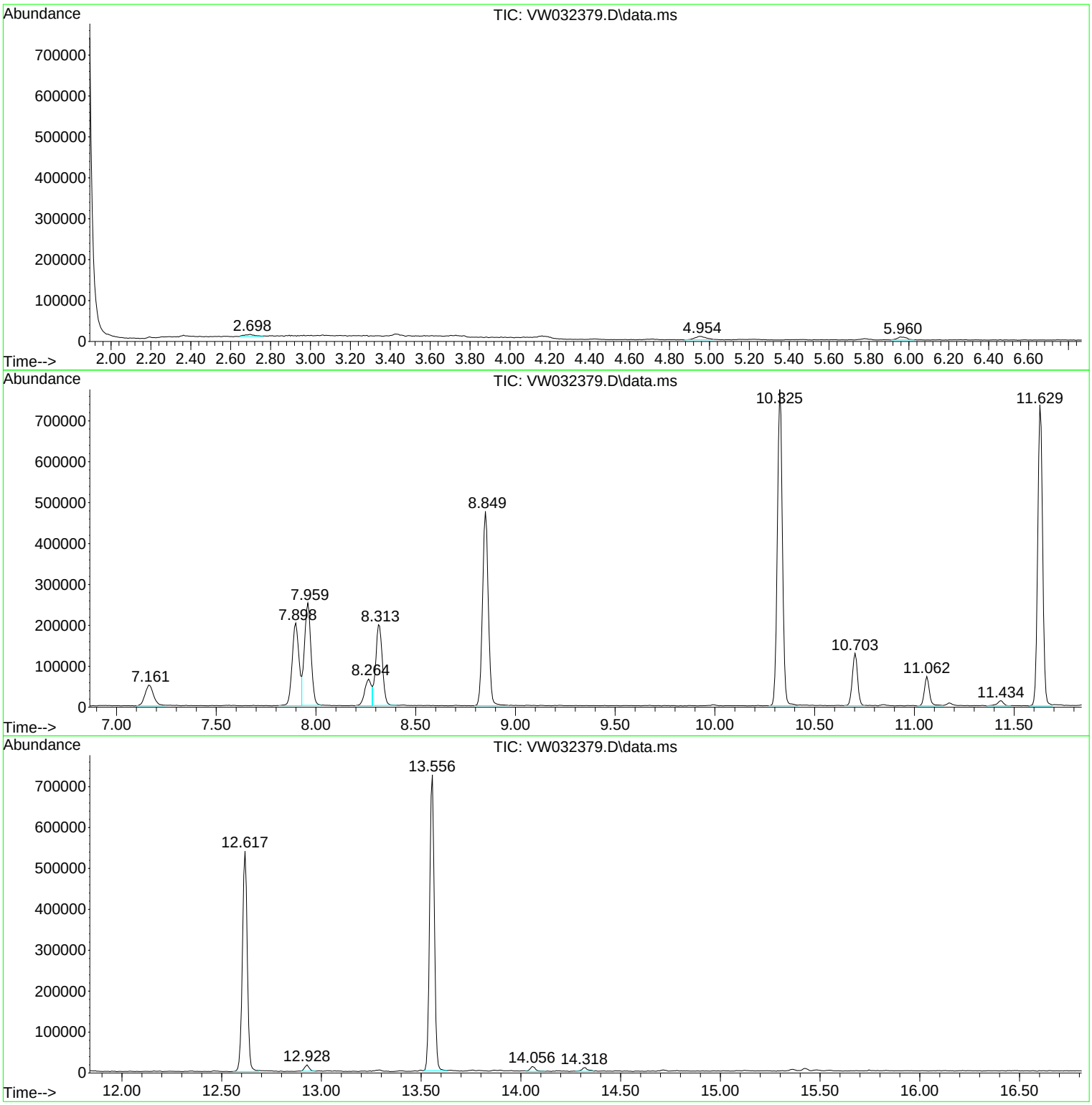
Sum of corrected areas: 8029804

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032379.D
Acq On : 20 Oct 2025 11:11
Operator : SY/MD
Sample : VW1020SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032379.D
Acq On : 20 Oct 2025 11:11
Operator : SY/MD
Sample : VW1020SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.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_W\Data\VW102025\
Data File : VW032379.D
Acq On : 20 Oct 2025 11:11
Operator : SY/MD
Sample : VW1020SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.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:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VY1020SBL01	SDG No.:	Q3393
Lab Sample ID:	VY1020SBL01	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	5.00	U	1	1.10	5.00	ug/Kg	10/20/25 09:37	VY102025
74-87-3	Chloromethane	5.00	U	1	1.10	5.00	ug/Kg	10/20/25 09:37	VY102025
75-01-4	Vinyl Chloride	5.00	U	1	0.79	5.00	ug/Kg	10/20/25 09:37	VY102025
74-83-9	Bromomethane	5.00	U	1	1.10	5.00	ug/Kg	10/20/25 09:37	VY102025
75-00-3	Chloroethane	5.00	U	1	1.30	5.00	ug/Kg	10/20/25 09:37	VY102025
75-69-4	Trichlorofluoromethane	5.00	U	1	1.20	5.00	ug/Kg	10/20/25 09:37	VY102025
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	1	1.10	5.00	ug/Kg	10/20/25 09:37	VY102025
75-35-4	1,1-Dichloroethene	5.00	U	1	1.00	5.00	ug/Kg	10/20/25 09:37	VY102025
67-64-1	Acetone	25.0	U	1	4.70	25.0	ug/Kg	10/20/25 09:37	VY102025
75-15-0	Carbon Disulfide	5.00	U	1	1.10	5.00	ug/Kg	10/20/25 09:37	VY102025
1634-04-4	Methyl tert-butyl Ether	5.00	U	1	0.73	5.00	ug/Kg	10/20/25 09:37	VY102025
79-20-9	Methyl Acetate	5.00	U	1	1.50	5.00	ug/Kg	10/20/25 09:37	VY102025
75-09-2	Methylene Chloride	10.0	U	1	3.50	10.0	ug/Kg	10/20/25 09:37	VY102025
156-60-5	trans-1,2-Dichloroethene	5.00	U	1	0.86	5.00	ug/Kg	10/20/25 09:37	VY102025
75-34-3	1,1-Dichloroethane	5.00	U	1	0.80	5.00	ug/Kg	10/20/25 09:37	VY102025
110-82-7	Cyclohexane	5.00	U	1	0.79	5.00	ug/Kg	10/20/25 09:37	VY102025
78-93-3	2-Butanone	25.0	U	1	6.50	25.0	ug/Kg	10/20/25 09:37	VY102025
56-23-5	Carbon Tetrachloride	5.00	U	1	0.97	5.00	ug/Kg	10/20/25 09:37	VY102025
156-59-2	cis-1,2-Dichloroethene	5.00	U	1	0.75	5.00	ug/Kg	10/20/25 09:37	VY102025
74-97-5	Bromochloromethane	5.00	U	1	1.20	5.00	ug/Kg	10/20/25 09:37	VY102025
67-66-3	Chloroform	5.00	U	1	0.84	5.00	ug/Kg	10/20/25 09:37	VY102025
71-55-6	1,1,1-Trichloroethane	5.00	U	1	0.93	5.00	ug/Kg	10/20/25 09:37	VY102025
108-87-2	Methylcyclohexane	5.00	U	1	0.91	5.00	ug/Kg	10/20/25 09:37	VY102025
71-43-2	Benzene	5.00	U	1	0.79	5.00	ug/Kg	10/20/25 09:37	VY102025
107-06-2	1,2-Dichloroethane	5.00	U	1	0.79	5.00	ug/Kg	10/20/25 09:37	VY102025
79-01-6	Trichloroethene	5.00	U	1	0.81	5.00	ug/Kg	10/20/25 09:37	VY102025
78-87-5	1,2-Dichloropropane	5.00	U	1	0.91	5.00	ug/Kg	10/20/25 09:37	VY102025
75-27-4	Bromodichloromethane	5.00	U	1	0.78	5.00	ug/Kg	10/20/25 09:37	VY102025
108-10-1	4-Methyl-2-Pentanone	25.0	U	1	3.60	25.0	ug/Kg	10/20/25 09:37	VY102025
108-88-3	Toluene	5.00	U	1	0.78	5.00	ug/Kg	10/20/25 09:37	VY102025
10061-02-6	t-1,3-Dichloropropene	5.00	U	1	0.65	5.00	ug/Kg	10/20/25 09:37	VY102025
10061-01-5	cis-1,3-Dichloropropene	5.00	U	1	0.62	5.00	ug/Kg	10/20/25 09:37	VY102025
79-00-5	1,1,2-Trichloroethane	5.00	U	1	0.92	5.00	ug/Kg	10/20/25 09:37	VY102025
591-78-6	2-Hexanone	25.0	U	1	3.70	25.0	ug/Kg	10/20/25 09:37	VY102025
124-48-1	Dibromochloromethane	5.00	U	1	0.87	5.00	ug/Kg	10/20/25 09:37	VY102025
106-93-4	1,2-Dibromoethane	5.00	U	1	0.88	5.00	ug/Kg	10/20/25 09:37	VY102025
127-18-4	Tetrachloroethene	5.00	U	1	1.10	5.00	ug/Kg	10/20/25 09:37	VY102025
108-90-7	Chlorobenzene	5.00	U	1	0.91	5.00	ug/Kg	10/20/25 09:37	VY102025
100-41-4	Ethyl Benzene	5.00	U	1	0.67	5.00	ug/Kg	10/20/25 09:37	VY102025
179601-23-1	m/p-Xylenes	10.0	U	1	1.20	10.0	ug/Kg	10/20/25 09:37	VY102025
95-47-6	o-Xylene	5.00	U	1	0.82	5.00	ug/Kg	10/20/25 09:37	VY102025
100-42-5	Styrene	5.00	U	1	0.71	5.00	ug/Kg	10/20/25 09:37	VY102025
75-25-2	Bromoform	5.00	U	1	0.86	5.00	ug/Kg	10/20/25 09:37	VY102025

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VY1020SBL01	SDG No.:	Q3393
Lab Sample ID:	VY1020SBL01	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	5.00	U	1	0.78	5.00	ug/Kg	10/20/25 09:37	VY102025
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	1	1.20	5.00	ug/Kg	10/20/25 09:37	VY102025
541-73-1	1,3-Dichlorobenzene	5.00	U	1	1.70	5.00	ug/Kg	10/20/25 09:37	VY102025
106-46-7	1,4-Dichlorobenzene	5.00	U	1	1.60	5.00	ug/Kg	10/20/25 09:37	VY102025
95-50-1	1,2-Dichlorobenzene	5.00	U	1	1.50	5.00	ug/Kg	10/20/25 09:37	VY102025
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	U	1	1.80	5.00	ug/Kg	10/20/25 09:37	VY102025
120-82-1	1,2,4-Trichlorobenzene	5.00	U	1	3.00	5.00	ug/Kg	10/20/25 09:37	VY102025
87-61-6	1,2,3-Trichlorobenzene	5.00	U	1	3.20	5.00	ug/Kg	10/20/25 09:37	VY102025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	49.7			63 - 155	99%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.3			70 - 134	103%	SPK: 50		
2037-26-5	Toluene-d8	49.0			74 - 123	98%	SPK: 50		
460-00-4	4-Bromofluorobenzene	40.6			17 - 146	81%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	824000							
540-36-3	1,4-Difluorobenzene	1340000							
3114-55-4	Chlorobenzene-d5	1120000							
3855-82-1	1,4-Dichlorobenzene-d4	444000							

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\VY102025\
Data File : VY023496.D
Acq On : 20 Oct 2025 09:37
Operator : SY/MD
Sample : VY1020SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBL01

Quant Time: Oct 21 03:54:13 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	824447	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1344685	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1118365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	444219	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	342584	49.692	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 99.380%			
35) Dibromofluoromethane	7.640	113	424251	51.347	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 102.700%			
50) Toluene-d8	10.109	98	1507991	49.008	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 98.020%			
62) 4-Bromofluorobenzene	12.408	95	412361	40.592	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 81.180%			

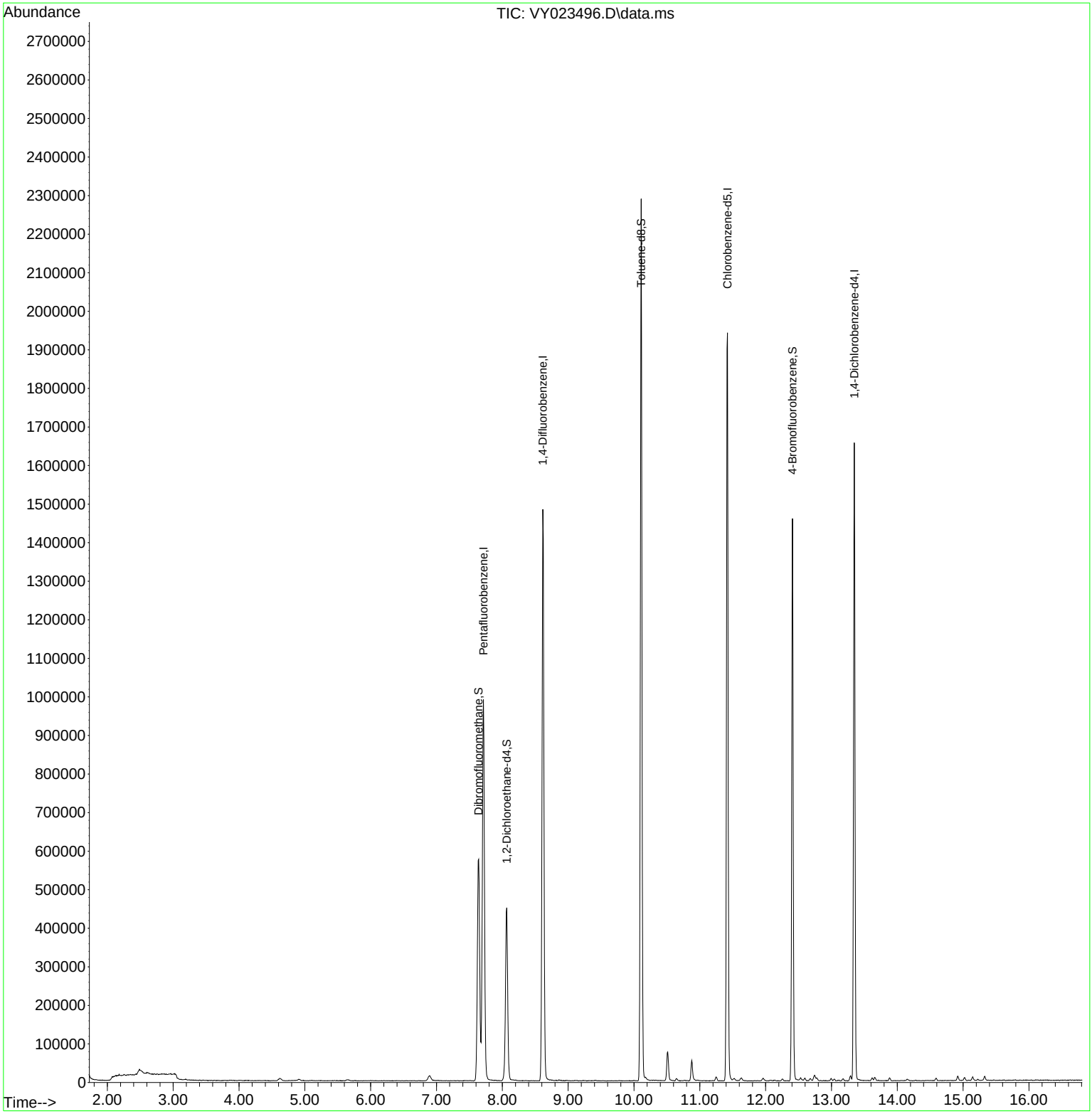
Target Compounds Qvalue

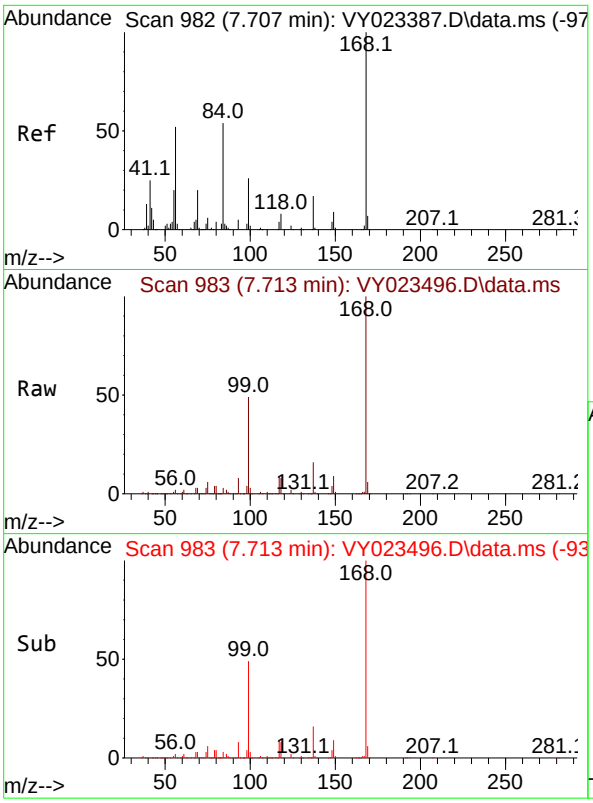
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023496.D
Acq On : 20 Oct 2025 09:37
Operator : SY/MD
Sample : VY1020SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBL01

Quant Time: Oct 21 03:54:13 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



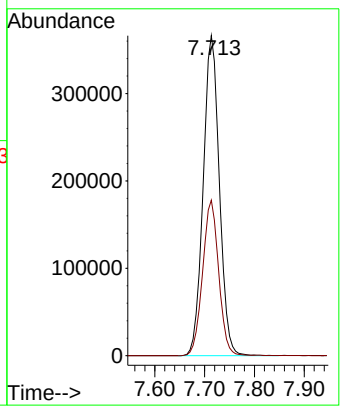


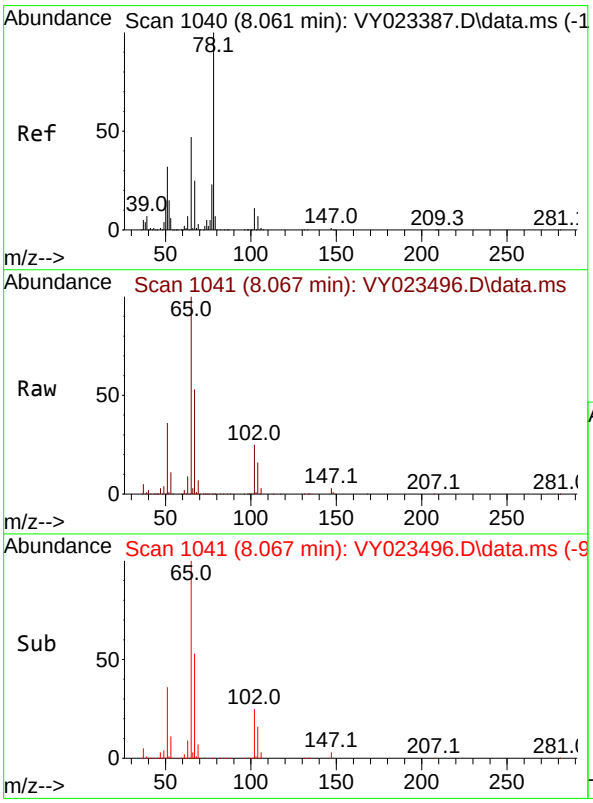
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023496.D
Acq: 20 Oct 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBL01

Tgt Ion:168 Resp: 824447

Ion	Ratio	Lower	Upper
168	100		
99	48.6	39.7	59.5

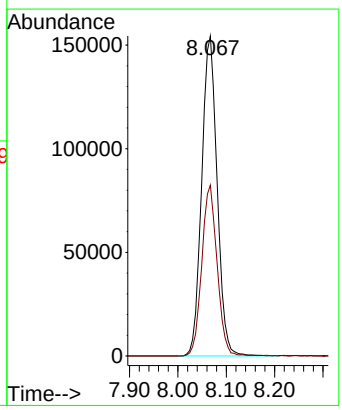


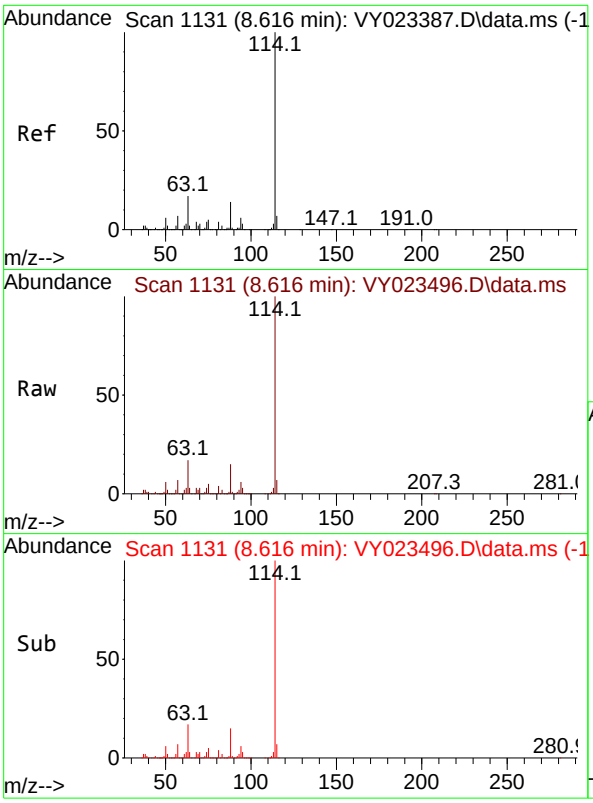


#33
1,2-Dichloroethane-d4
Concen: 49.692 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023496.D
Acq: 20 Oct 2025 09:37

Tgt Ion: 65 Resp: 342584

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	105.8



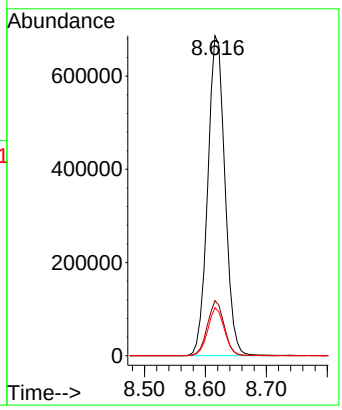


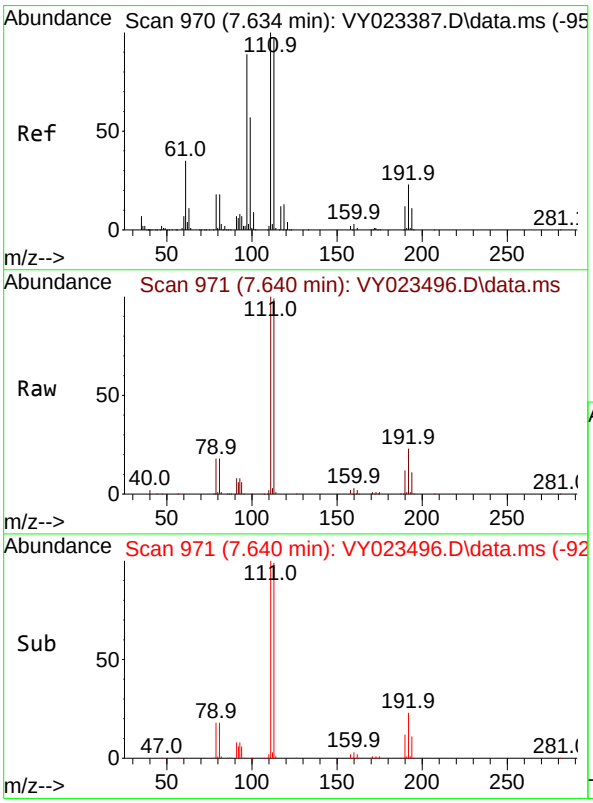
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023496.D
Acq: 20 Oct 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBL01

Tgt Ion:114 Resp: 1344685

Ion	Ratio	Lower	Upper
114	100		
63	17.2	0.0	34.2
88	15.0	0.0	28.4

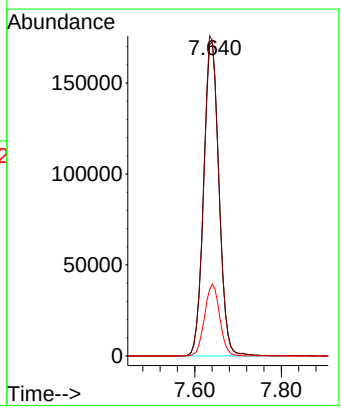


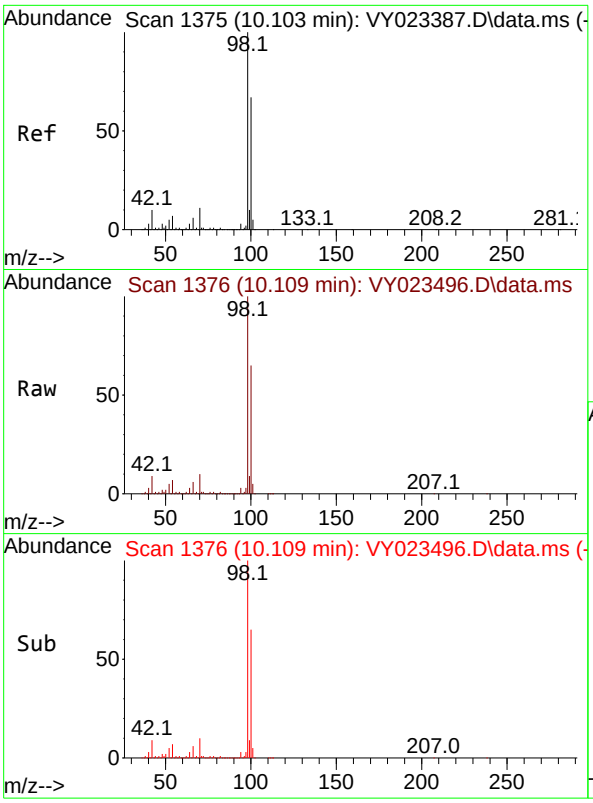


#35
Dibromofluoromethane
Concen: 51.347 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023496.D
Acq: 20 Oct 2025 09:37

Tgt Ion:113 Resp: 424251

Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.8	122.6
192	22.6	18.0	27.0



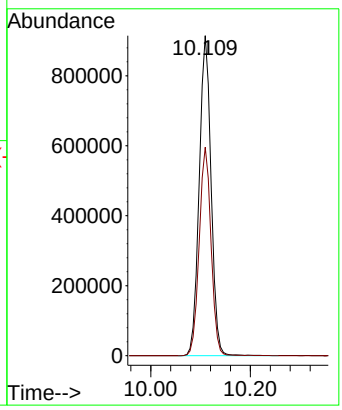


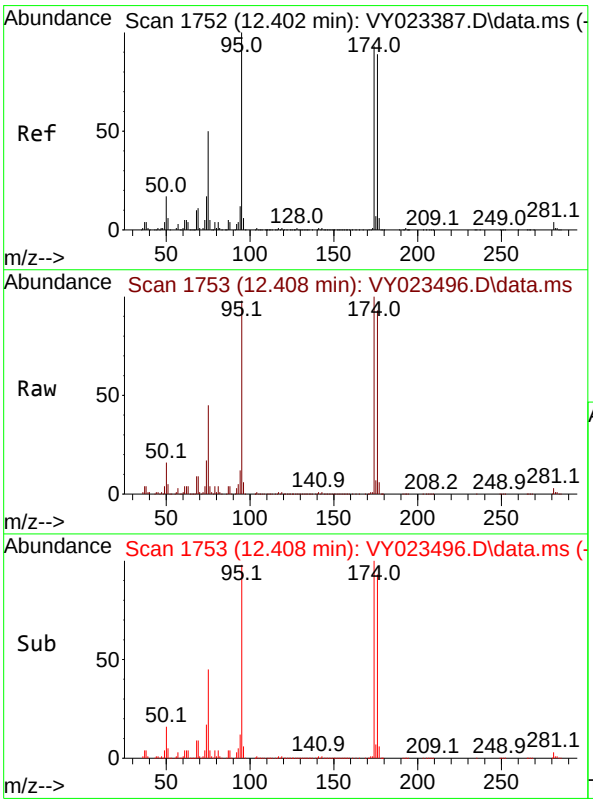
#50
Toluene-d8
Concen: 49.008 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023496.D
Acq: 20 Oct 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBL01

Tgt Ion: 98 Resp: 1507991

Ion	Ratio	Lower	Upper
98	100		
100	65.1	53.0	79.4

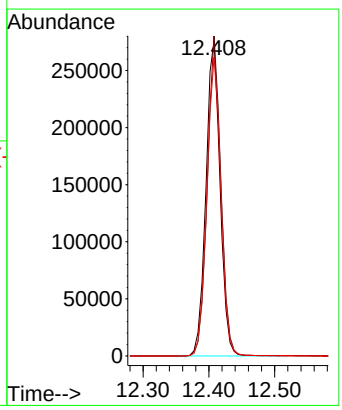


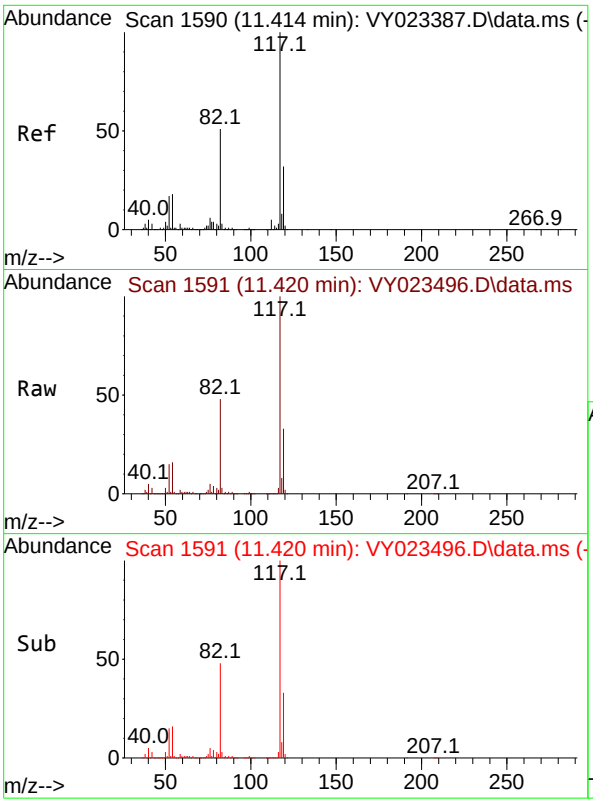


#62
4-Bromofluorobenzene
Concen: 40.592 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023496.D
Acq: 20 Oct 2025 09:37

Tgt Ion: 95 Resp: 412361

Ion	Ratio	Lower	Upper
95	100		
174	98.7	0.0	192.8
176	94.5	0.0	187.6



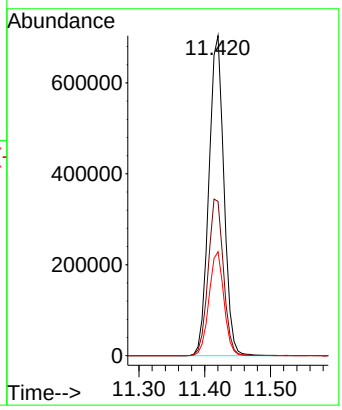


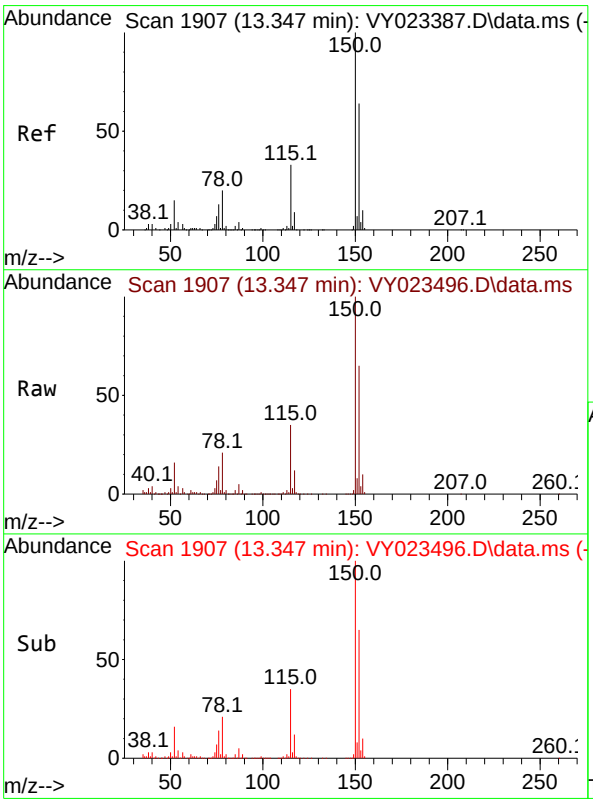
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023496.D
Acq: 20 Oct 2025 09:37

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBL01

Tgt Ion:117 Resp: 1118365

Ion	Ratio	Lower	Upper
117	100		
82	48.2	41.0	61.4
119	32.5	25.6	38.4

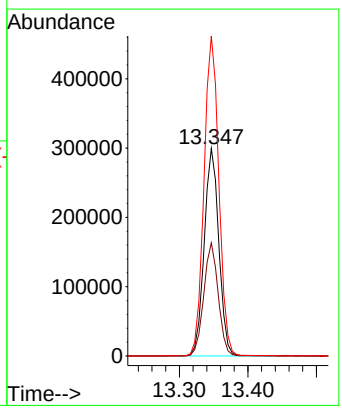




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY023496.D
Acq: 20 Oct 2025 09:37

Tgt Ion:152 Resp: 444219

Ion	Ratio	Lower	Upper
152	100		
115	54.1	27.1	81.2
150	156.7	0.0	347.4



Sample Results: **VY023496.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023496.D
Acq On : 20 Oct 2025 09:37
Operator : SY/MD
Sample : VY1020SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBL01

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: VY023496.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.897	837	849	857	rBV2	13315	42623	1.12%	0.218%
2	7.640	958	971	977	rBV2	574731	1431727	37.67%	7.323%
3	7.713	977	983	1000	rVB	986991	2214923	58.28%	11.329%
4	8.067	1027	1041	1050	rBV	448717	1039485	27.35%	5.317%
5	8.616	1122	1131	1143	rBV	1482351	2895884	76.19%	14.812%
6	10.109	1367	1376	1385	rBV	2287583	3800749	100.00%	19.440%
7	10.512	1433	1442	1448	rBV	74378	143233	3.77%	0.733%
8	10.878	1497	1502	1513	rBV	51637	91991	2.42%	0.471%
9	11.420	1581	1591	1603	rBV	1940134	3179737	83.66%	16.263%
10	12.408	1744	1753	1761	rBV	1458590	2226232	58.57%	11.386%
11	13.347	1901	1907	1923	rVB	1653549	2484922	65.38%	12.710%

Sum of corrected areas: 19551506

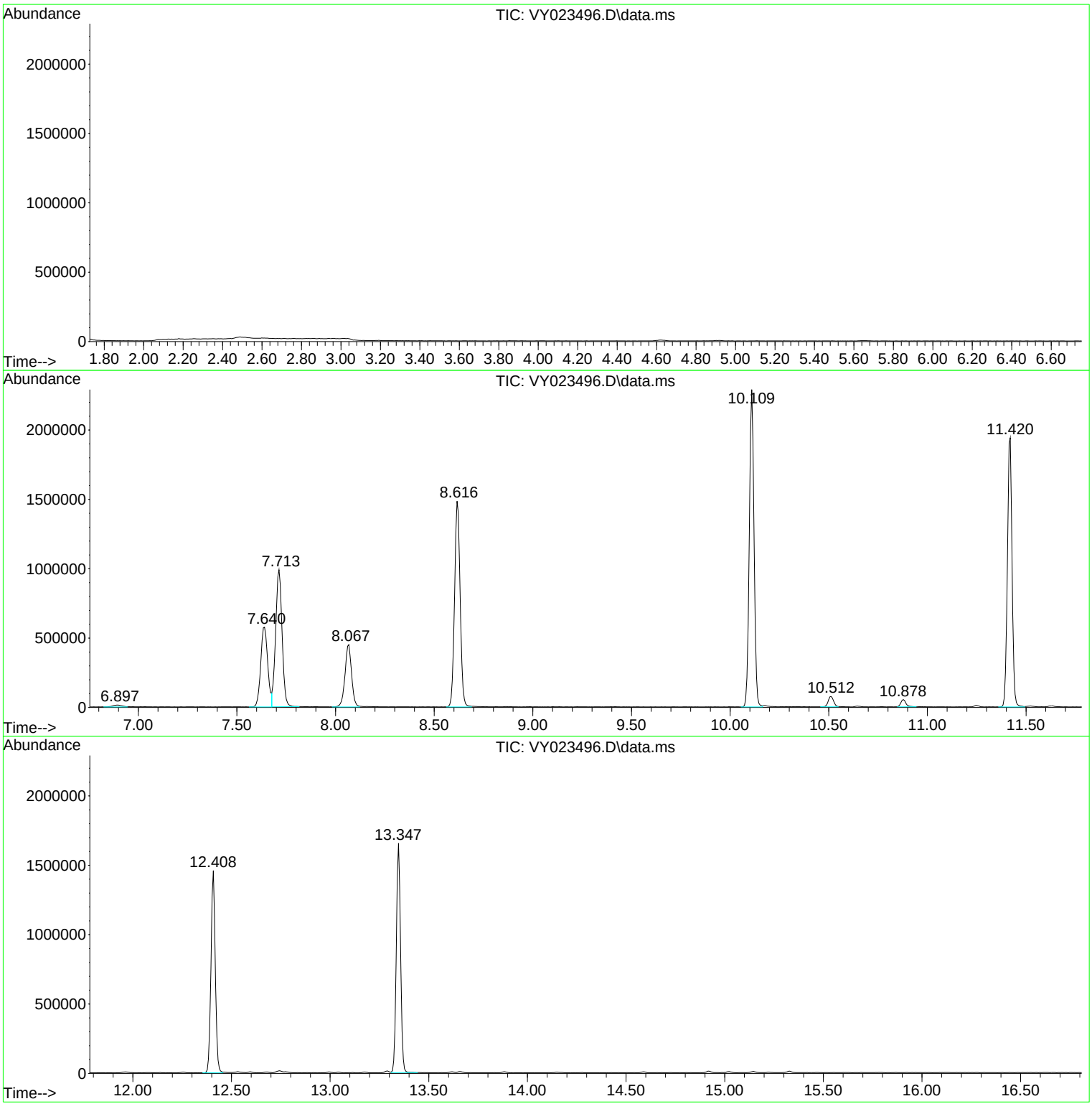
Sample Results: **VY023496.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023496.D
Acq On : 20 Oct 2025 09:37
Operator : SY/MD
Sample : VY1020SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBL01

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\VY102025\
Data File : VY023496.D
Acq On : 20 Oct 2025 09:37
Operator : SY/MD
Sample : VY1020SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBL01

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\VY102025\
Data File : VY023496.D
Acq On : 20 Oct 2025 09:37
Operator : SY/MD
Sample : VY1020SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBL01

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:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VY1021SBL01	SDG No.:	Q3393
Lab Sample ID:	VY1021SBL01	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	5.00	U	1	1.10	5.00	ug/Kg	10/21/25 09:34	VY102125
74-87-3	Chloromethane	5.00	U	1	1.10	5.00	ug/Kg	10/21/25 09:34	VY102125
75-01-4	Vinyl Chloride	5.00	U	1	0.79	5.00	ug/Kg	10/21/25 09:34	VY102125
74-83-9	Bromomethane	5.00	U	1	1.10	5.00	ug/Kg	10/21/25 09:34	VY102125
75-00-3	Chloroethane	5.00	U	1	1.30	5.00	ug/Kg	10/21/25 09:34	VY102125
75-69-4	Trichlorofluoromethane	5.00	U	1	1.20	5.00	ug/Kg	10/21/25 09:34	VY102125
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	U	1	1.10	5.00	ug/Kg	10/21/25 09:34	VY102125
75-35-4	1,1-Dichloroethene	5.00	U	1	1.00	5.00	ug/Kg	10/21/25 09:34	VY102125
67-64-1	Acetone	25.0	U	1	4.70	25.0	ug/Kg	10/21/25 09:34	VY102125
75-15-0	Carbon Disulfide	5.00	U	1	1.10	5.00	ug/Kg	10/21/25 09:34	VY102125
1634-04-4	Methyl tert-butyl Ether	5.00	U	1	0.73	5.00	ug/Kg	10/21/25 09:34	VY102125
79-20-9	Methyl Acetate	5.00	U	1	1.50	5.00	ug/Kg	10/21/25 09:34	VY102125
75-09-2	Methylene Chloride	10.0	U	1	3.50	10.0	ug/Kg	10/21/25 09:34	VY102125
156-60-5	trans-1,2-Dichloroethene	5.00	U	1	0.86	5.00	ug/Kg	10/21/25 09:34	VY102125
75-34-3	1,1-Dichloroethane	5.00	U	1	0.80	5.00	ug/Kg	10/21/25 09:34	VY102125
110-82-7	Cyclohexane	5.00	U	1	0.79	5.00	ug/Kg	10/21/25 09:34	VY102125
78-93-3	2-Butanone	25.0	U	1	6.50	25.0	ug/Kg	10/21/25 09:34	VY102125
56-23-5	Carbon Tetrachloride	5.00	U	1	0.97	5.00	ug/Kg	10/21/25 09:34	VY102125
156-59-2	cis-1,2-Dichloroethene	5.00	U	1	0.75	5.00	ug/Kg	10/21/25 09:34	VY102125
74-97-5	Bromochloromethane	5.00	U	1	1.20	5.00	ug/Kg	10/21/25 09:34	VY102125
67-66-3	Chloroform	5.00	U	1	0.84	5.00	ug/Kg	10/21/25 09:34	VY102125
71-55-6	1,1,1-Trichloroethane	5.00	U	1	0.93	5.00	ug/Kg	10/21/25 09:34	VY102125
108-87-2	Methylcyclohexane	5.00	U	1	0.91	5.00	ug/Kg	10/21/25 09:34	VY102125
71-43-2	Benzene	5.00	U	1	0.79	5.00	ug/Kg	10/21/25 09:34	VY102125
107-06-2	1,2-Dichloroethane	5.00	U	1	0.79	5.00	ug/Kg	10/21/25 09:34	VY102125
79-01-6	Trichloroethene	5.00	U	1	0.81	5.00	ug/Kg	10/21/25 09:34	VY102125
78-87-5	1,2-Dichloropropane	5.00	U	1	0.91	5.00	ug/Kg	10/21/25 09:34	VY102125
75-27-4	Bromodichloromethane	5.00	U	1	0.78	5.00	ug/Kg	10/21/25 09:34	VY102125
108-10-1	4-Methyl-2-Pentanone	25.0	U	1	3.60	25.0	ug/Kg	10/21/25 09:34	VY102125
108-88-3	Toluene	5.00	U	1	0.78	5.00	ug/Kg	10/21/25 09:34	VY102125
10061-02-6	t-1,3-Dichloropropene	5.00	U	1	0.65	5.00	ug/Kg	10/21/25 09:34	VY102125
10061-01-5	cis-1,3-Dichloropropene	5.00	U	1	0.62	5.00	ug/Kg	10/21/25 09:34	VY102125
79-00-5	1,1,2-Trichloroethane	5.00	U	1	0.92	5.00	ug/Kg	10/21/25 09:34	VY102125
591-78-6	2-Hexanone	25.0	U	1	3.70	25.0	ug/Kg	10/21/25 09:34	VY102125
124-48-1	Dibromochloromethane	5.00	U	1	0.87	5.00	ug/Kg	10/21/25 09:34	VY102125
106-93-4	1,2-Dibromoethane	5.00	U	1	0.88	5.00	ug/Kg	10/21/25 09:34	VY102125
127-18-4	Tetrachloroethene	5.00	U	1	1.10	5.00	ug/Kg	10/21/25 09:34	VY102125
108-90-7	Chlorobenzene	5.00	U	1	0.91	5.00	ug/Kg	10/21/25 09:34	VY102125
100-41-4	Ethyl Benzene	5.00	U	1	0.67	5.00	ug/Kg	10/21/25 09:34	VY102125
179601-23-1	m/p-Xylenes	10.0	U	1	1.20	10.0	ug/Kg	10/21/25 09:34	VY102125
95-47-6	o-Xylene	5.00	U	1	0.82	5.00	ug/Kg	10/21/25 09:34	VY102125
100-42-5	Styrene	5.00	U	1	0.71	5.00	ug/Kg	10/21/25 09:34	VY102125
75-25-2	Bromoform	5.00	U	1	0.86	5.00	ug/Kg	10/21/25 09:34	VY102125

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VY1021SBL01	SDG No.:	Q3393
Lab Sample ID:	VY1021SBL01	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	5.00	U	1	0.78	5.00	ug/Kg	10/21/25 09:34	VY102125
79-34-5	1,1,2,2-Tetrachloroethane	5.00	U	1	1.20	5.00	ug/Kg	10/21/25 09:34	VY102125
541-73-1	1,3-Dichlorobenzene	5.00	U	1	1.70	5.00	ug/Kg	10/21/25 09:34	VY102125
106-46-7	1,4-Dichlorobenzene	5.00	U	1	1.60	5.00	ug/Kg	10/21/25 09:34	VY102125
95-50-1	1,2-Dichlorobenzene	5.00	U	1	1.50	5.00	ug/Kg	10/21/25 09:34	VY102125
96-12-8	1,2-Dibromo-3-Chloropropane	5.00	U	1	1.80	5.00	ug/Kg	10/21/25 09:34	VY102125
120-82-1	1,2,4-Trichlorobenzene	5.00	U	1	3.00	5.00	ug/Kg	10/21/25 09:34	VY102125
87-61-6	1,2,3-Trichlorobenzene	5.00	U	1	3.20	5.00	ug/Kg	10/21/25 09:34	VY102125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	46.0			63 - 155	92%	SPK: 50		
1868-53-7	Dibromofluoromethane	49.7			70 - 134	99%	SPK: 50		
2037-26-5	Toluene-d8	48.1			74 - 123	96%	SPK: 50		
460-00-4	4-Bromofluorobenzene	36.4			17 - 146	73%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	768000							
540-36-3	1,4-Difluorobenzene	1270000							
3114-55-4	Chlorobenzene-d5	1000000							
3855-82-1	1,4-Dichlorobenzene-d4	379000							

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\VY102125\
Data File : VY023522.D
Acq On : 21 Oct 2025 09:34
Operator : SY/MD
Sample : VY1021SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBL01

Quant Time: Oct 24 01:21:50 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

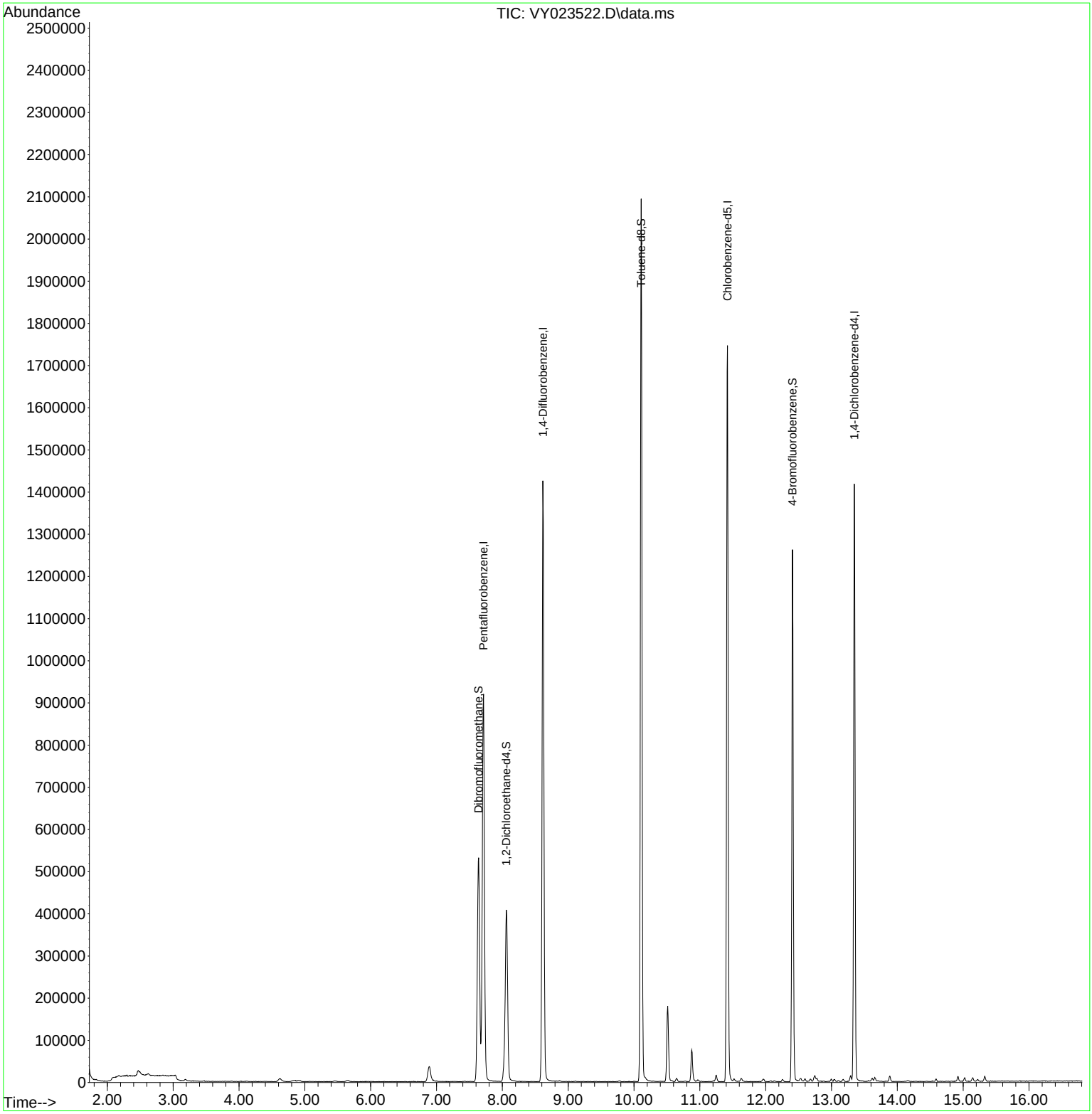
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	767531	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1271980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1000258	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	378610	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	295141	45.985	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	91.960%		
35) Dibromofluoromethane	7.640	113	388671	49.729	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.460%		
50) Toluene-d8	10.109	98	1399310	48.076	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	96.160%		
62) 4-Bromofluorobenzene	12.408	95	349784	36.400	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	72.800%		
Target Compounds						Qvalue

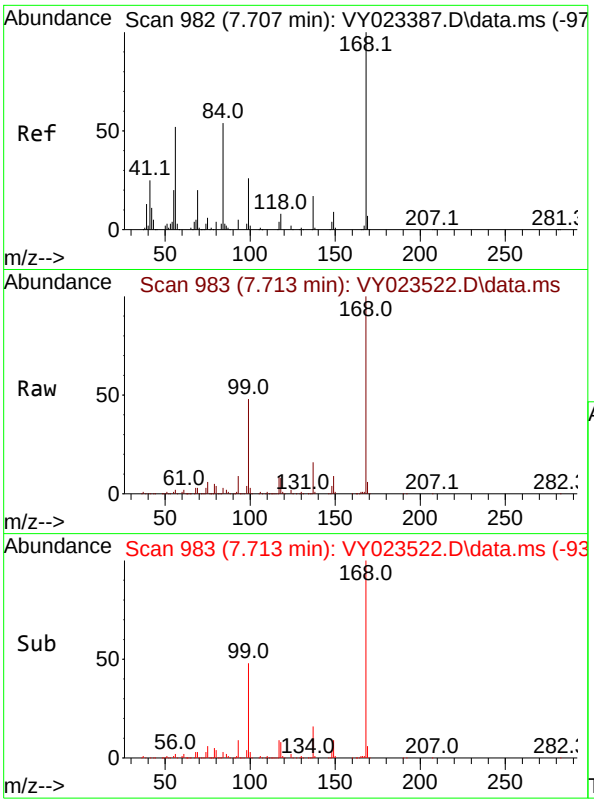
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023522.D
Acq On : 21 Oct 2025 09:34
Operator : SY/MD
Sample : VY1021SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBL01

Quant Time: Oct 24 01:21:50 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



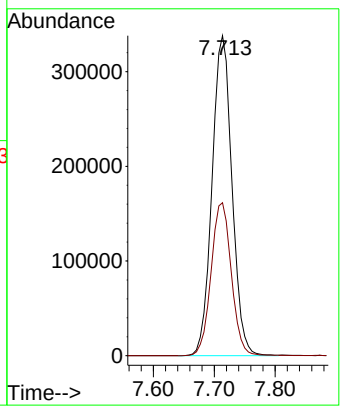


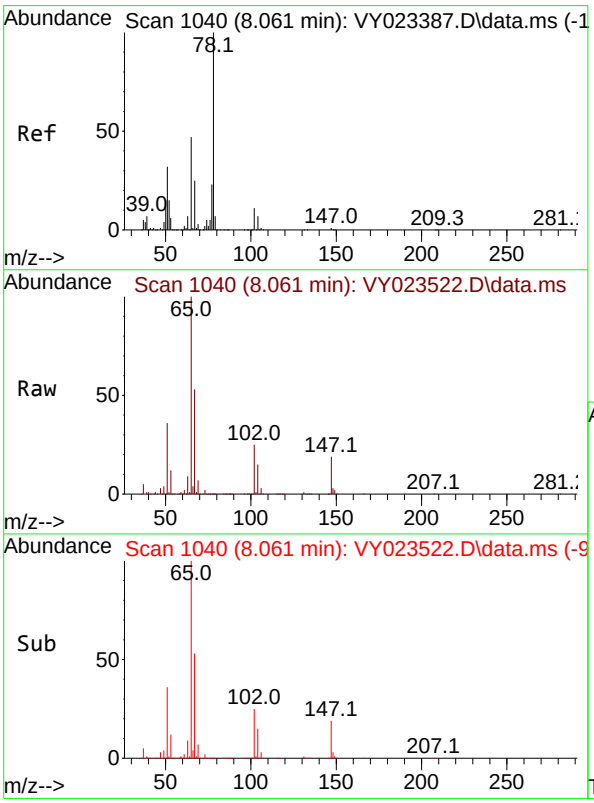
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023522.D
Acq: 21 Oct 2025 09:34

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBL01

Tgt Ion:168 Resp: 767531

Ion	Ratio	Lower	Upper
168	100		
99	47.8	39.7	59.5

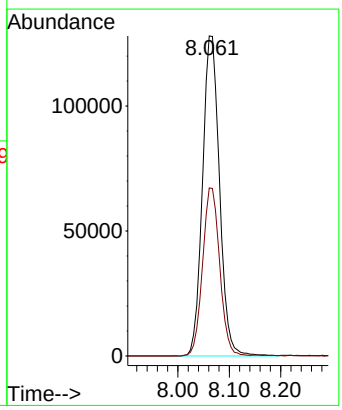


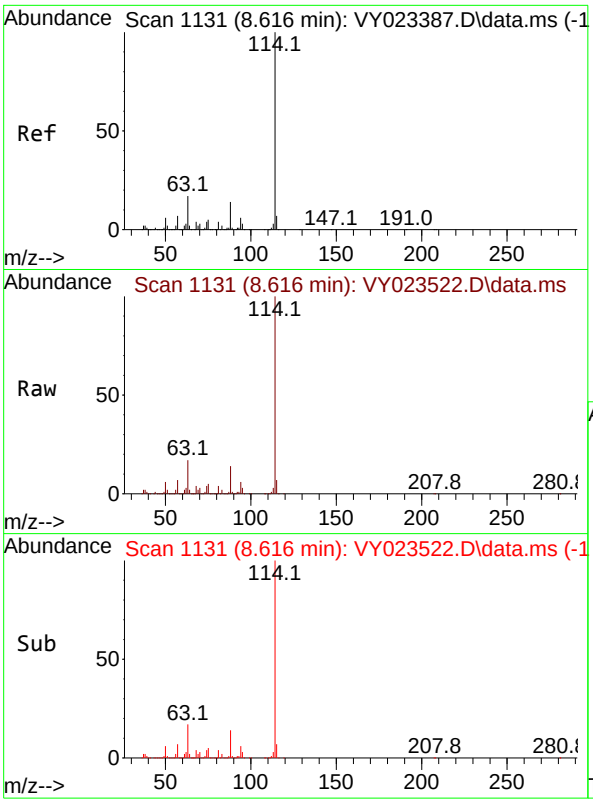


#33
1,2-Dichloroethane-d4
Concen: 45.985 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023522.D
Acq: 21 Oct 2025 09:34

Tgt Ion: 65 Resp: 295141

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	105.8



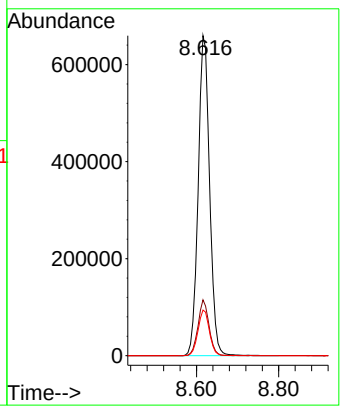


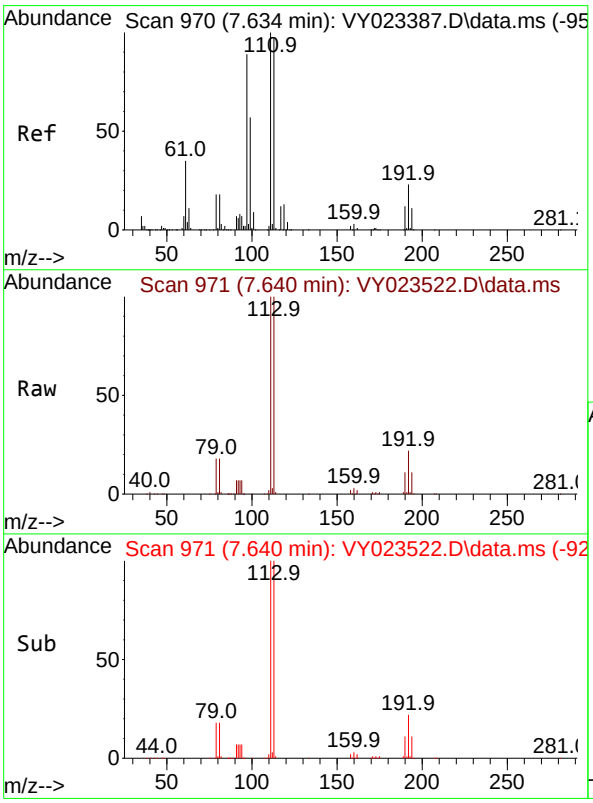
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023522.D
Acq: 21 Oct 2025 09:34

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBL01

Tgt Ion:114 Resp: 1271980

Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	34.2
88	14.2	0.0	28.4

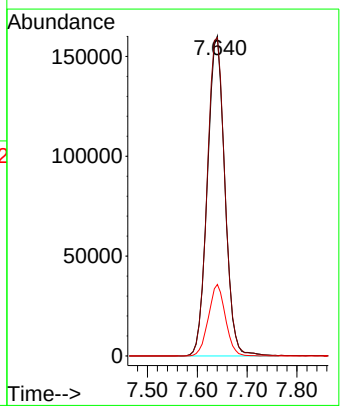


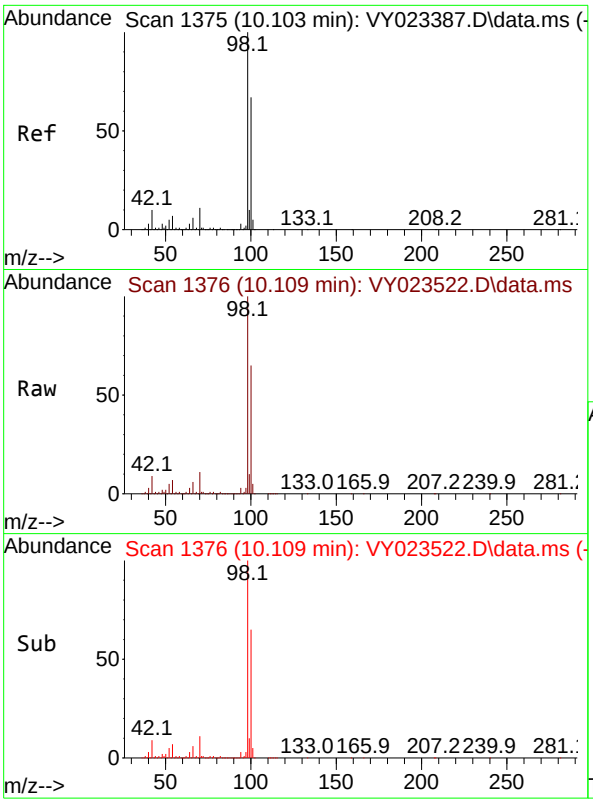


#35
Dibromofluoromethane
Concen: 49.729 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023522.D
Acq: 21 Oct 2025 09:34

Tgt Ion:113 Resp: 388671

Ion	Ratio	Lower	Upper
113	100		
111	101.1	81.8	122.6
192	21.8	18.0	27.0



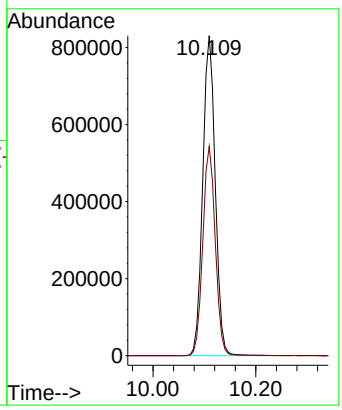


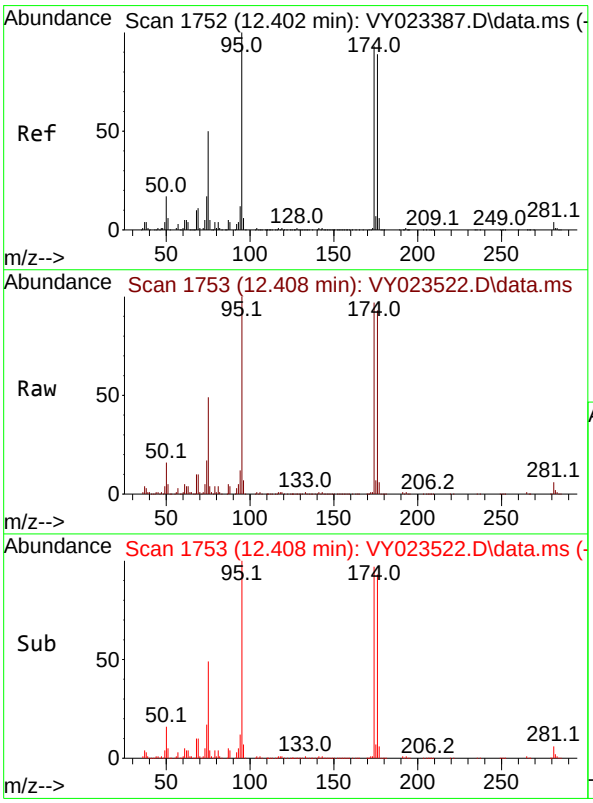
#50
Toluene-d8
Concen: 48.076 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023522.D
Acq: 21 Oct 2025 09:34

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBL01

Tgt Ion: 98 Resp: 1399310

Ion	Ratio	Lower	Upper
98	100		
100	65.2	53.0	79.4

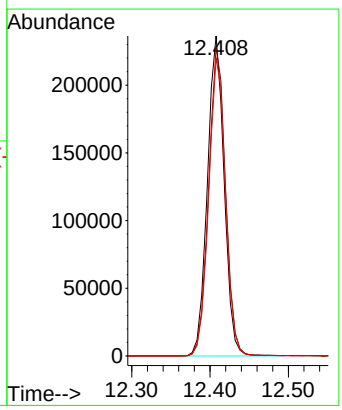


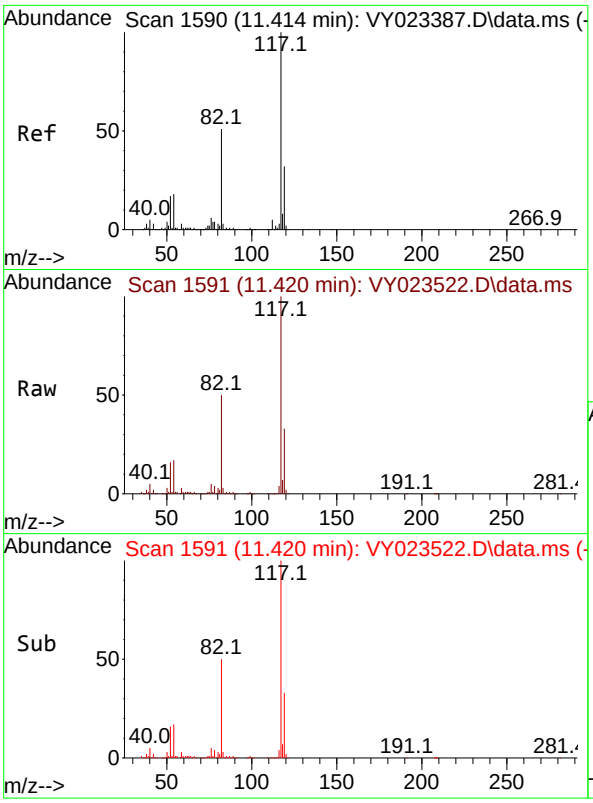


#62
4-Bromofluorobenzene
Concen: 36.400 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023522.D
Acq: 21 Oct 2025 09:34

Tgt Ion: 95 Resp: 349784

Ion	Ratio	Lower	Upper
95	100		
174	98.0	0.0	192.8
176	93.7	0.0	187.6



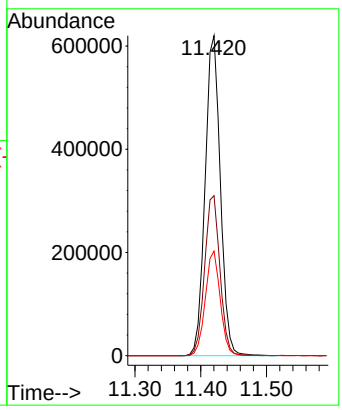


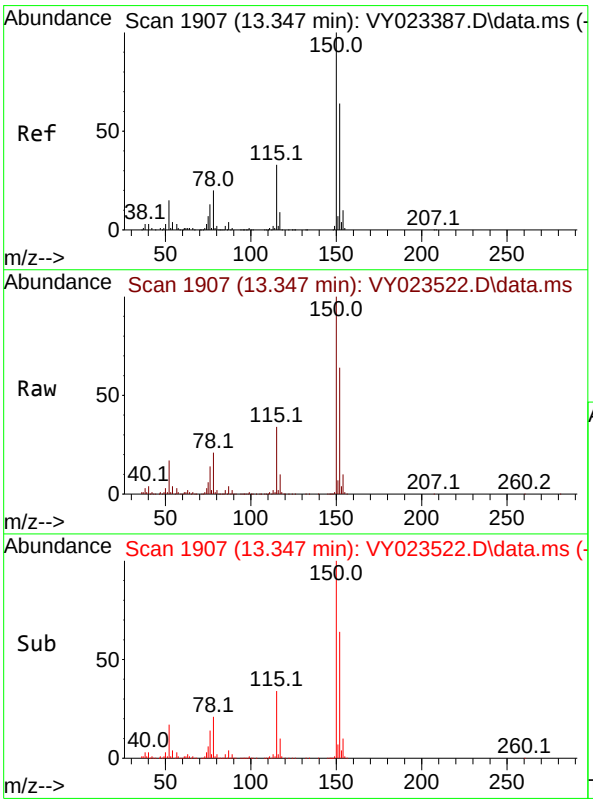
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023522.D
Acq: 21 Oct 2025 09:34

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBL01

Tgt Ion:117 Resp: 1000258

Ion	Ratio	Lower	Upper
117	100		
82	50.0	41.0	61.4
119	32.6	25.6	38.4

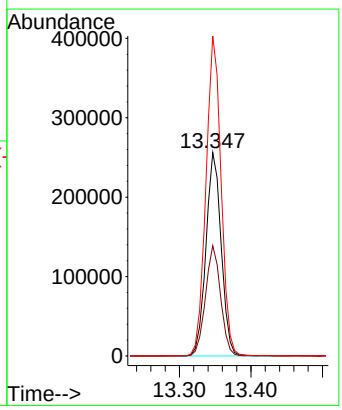




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY023522.D
Acq: 21 Oct 2025 09:34

Tgt Ion:152 Resp: 378610

Ion	Ratio	Lower	Upper
152	100		
115	53.8	27.1	81.2
150	156.0	0.0	347.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023522.D
Acq On : 21 Oct 2025 09:34
Operator : SY/MD
Sample : VY1021SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBL01

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: VY023522.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.890	838	848	857	rBV	35400	111624	3.14%	0.612%
2	7.640	959	971	976	rBV	531008	1277186	35.90%	6.997%
3	7.713	976	983	1000	rVB	917366	2109123	59.28%	11.555%
4	8.061	1027	1040	1064	rBV2	406960	1071893	30.13%	5.872%
5	8.616	1122	1131	1147	rBV	1424841	2733100	76.81%	14.973%
6	10.109	1367	1376	1396	rBV	2093314	3558053	100.00%	19.492%
7	10.512	1435	1442	1449	rBV	178794	329732	9.27%	1.806%
8	10.878	1494	1502	1511	rBV	75256	134524	3.78%	0.737%
9	11.420	1583	1591	1604	rBV	1745395	2851605	80.15%	15.622%
10	12.408	1746	1753	1763	rBV2	1261596	1957774	55.02%	10.725%
11	13.347	1901	1907	1921	rVB	1416131	2119051	59.56%	11.609%

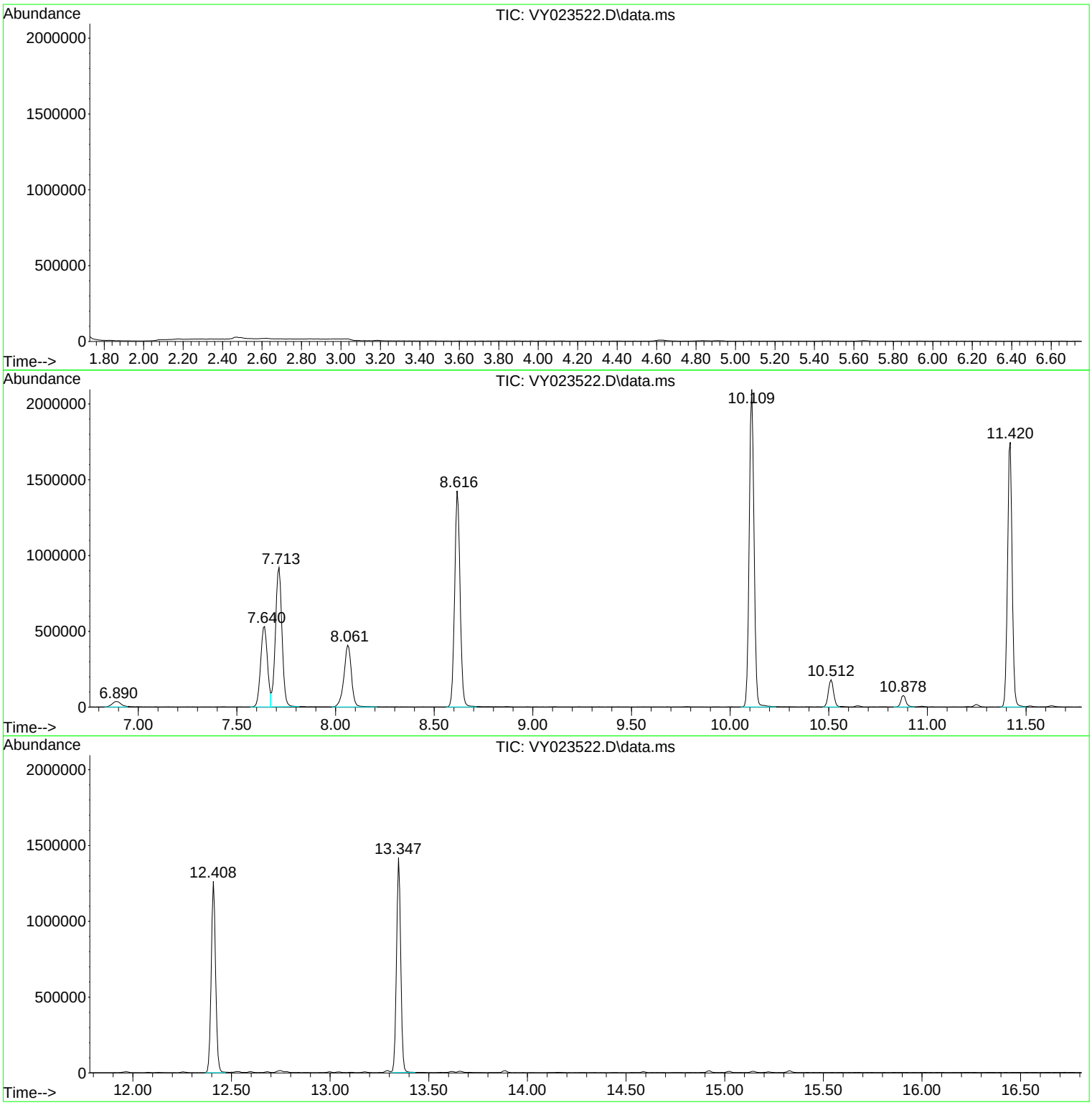
Sum of corrected areas: 18253665

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023522.D
Acq On : 21 Oct 2025 09:34
Operator : SY/MD
Sample : VY1021SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBL01

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\VY102125\
Data File : VY023522.D
Acq On : 21 Oct 2025 09:34
Operator : SY/MD
Sample : VY1021SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBL01

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\VY102125\
Data File : VY023522.D
Acq On : 21 Oct 2025 09:34
Operator : SY/MD
Sample : VY1021SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBL01

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:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VW1020SBS01	SDG No.:	Q3393
Lab Sample ID:	VW1020SBS01	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	19.9		1	1.10	5.00	ug/Kg	10/20/25 11:41	VW102025
74-87-3	Chloromethane	20.1		1	1.10	5.00	ug/Kg	10/20/25 11:41	VW102025
75-01-4	Vinyl Chloride	22.1		1	0.79	5.00	ug/Kg	10/20/25 11:41	VW102025
74-83-9	Bromomethane	21.1		1	1.10	5.00	ug/Kg	10/20/25 11:41	VW102025
75-00-3	Chloroethane	21.4		1	1.30	5.00	ug/Kg	10/20/25 11:41	VW102025
75-69-4	Trichlorofluoromethane	19.4		1	1.20	5.00	ug/Kg	10/20/25 11:41	VW102025
76-13-1	1,1,2-Trichlorotrifluoroethane	20.9		1	1.10	5.00	ug/Kg	10/20/25 11:41	VW102025
75-35-4	1,1-Dichloroethene	21.7		1	1.00	5.00	ug/Kg	10/20/25 11:41	VW102025
67-64-1	Acetone	97.1		1	4.70	25.0	ug/Kg	10/20/25 11:41	VW102025
75-15-0	Carbon Disulfide	21.1		1	1.10	5.00	ug/Kg	10/20/25 11:41	VW102025
1634-04-4	Methyl tert-butyl Ether	19.0		1	0.73	5.00	ug/Kg	10/20/25 11:41	VW102025
79-20-9	Methyl Acetate	17.5		1	1.50	5.00	ug/Kg	10/20/25 11:41	VW102025
75-09-2	Methylene Chloride	19.0		1	3.50	10.0	ug/Kg	10/20/25 11:41	VW102025
156-60-5	trans-1,2-Dichloroethene	21.0		1	0.86	5.00	ug/Kg	10/20/25 11:41	VW102025
75-34-3	1,1-Dichloroethane	20.8		1	0.80	5.00	ug/Kg	10/20/25 11:41	VW102025
110-82-7	Cyclohexane	19.2		1	0.79	5.00	ug/Kg	10/20/25 11:41	VW102025
78-93-3	2-Butanone	87.6		1	6.50	25.0	ug/Kg	10/20/25 11:41	VW102025
56-23-5	Carbon Tetrachloride	22.0		1	0.97	5.00	ug/Kg	10/20/25 11:41	VW102025
156-59-2	cis-1,2-Dichloroethene	20.3		1	0.75	5.00	ug/Kg	10/20/25 11:41	VW102025
74-97-5	Bromochloromethane	20.8		1	1.20	5.00	ug/Kg	10/20/25 11:41	VW102025
67-66-3	Chloroform	21.5		1	0.84	5.00	ug/Kg	10/20/25 11:41	VW102025
71-55-6	1,1,1-Trichloroethane	21.5		1	0.93	5.00	ug/Kg	10/20/25 11:41	VW102025
108-87-2	Methylcyclohexane	19.3		1	0.91	5.00	ug/Kg	10/20/25 11:41	VW102025
71-43-2	Benzene	20.9		1	0.79	5.00	ug/Kg	10/20/25 11:41	VW102025
107-06-2	1,2-Dichloroethane	20.6		1	0.79	5.00	ug/Kg	10/20/25 11:41	VW102025
79-01-6	Trichloroethene	20.3		1	0.81	5.00	ug/Kg	10/20/25 11:41	VW102025
78-87-5	1,2-Dichloropropane	21.0		1	0.91	5.00	ug/Kg	10/20/25 11:41	VW102025
75-27-4	Bromodichloromethane	22.0		1	0.78	5.00	ug/Kg	10/20/25 11:41	VW102025
108-10-1	4-Methyl-2-Pentanone	92.3		1	3.60	25.0	ug/Kg	10/20/25 11:41	VW102025
108-88-3	Toluene	20.8		1	0.78	5.00	ug/Kg	10/20/25 11:41	VW102025
10061-02-6	t-1,3-Dichloropropene	20.2		1	0.65	5.00	ug/Kg	10/20/25 11:41	VW102025
10061-01-5	cis-1,3-Dichloropropene	20.7		1	0.62	5.00	ug/Kg	10/20/25 11:41	VW102025
79-00-5	1,1,2-Trichloroethane	20.7		1	0.92	5.00	ug/Kg	10/20/25 11:41	VW102025
591-78-6	2-Hexanone	92.8		1	3.70	25.0	ug/Kg	10/20/25 11:41	VW102025
124-48-1	Dibromochloromethane	21.7		1	0.87	5.00	ug/Kg	10/20/25 11:41	VW102025
106-93-4	1,2-Dibromoethane	20.3		1	0.88	5.00	ug/Kg	10/20/25 11:41	VW102025
127-18-4	Tetrachloroethene	20.1		1	1.10	5.00	ug/Kg	10/20/25 11:41	VW102025
108-90-7	Chlorobenzene	20.2		1	0.91	5.00	ug/Kg	10/20/25 11:41	VW102025
100-41-4	Ethyl Benzene	20.5		1	0.67	5.00	ug/Kg	10/20/25 11:41	VW102025
179601-23-1	m/p-Xylenes	41.2		1	1.20	10.0	ug/Kg	10/20/25 11:41	VW102025
95-47-6	o-Xylene	19.8		1	0.82	5.00	ug/Kg	10/20/25 11:41	VW102025
100-42-5	Styrene	21.1		1	0.71	5.00	ug/Kg	10/20/25 11:41	VW102025
75-25-2	Bromoform	21.5		1	0.86	5.00	ug/Kg	10/20/25 11:41	VW102025

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VW1020SBS01	SDG No.:	Q3393
Lab Sample ID:	VW1020SBS01	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	19.8		1	0.78	5.00	ug/Kg	10/20/25 11:41	VW102025
79-34-5	1,1,2,2-Tetrachloroethane	18.9		1	1.20	5.00	ug/Kg	10/20/25 11:41	VW102025
541-73-1	1,3-Dichlorobenzene	20.4		1	1.70	5.00	ug/Kg	10/20/25 11:41	VW102025
106-46-7	1,4-Dichlorobenzene	20.3		1	1.60	5.00	ug/Kg	10/20/25 11:41	VW102025
95-50-1	1,2-Dichlorobenzene	20.0		1	1.50	5.00	ug/Kg	10/20/25 11:41	VW102025
96-12-8	1,2-Dibromo-3-Chloropropane	18.4		1	1.80	5.00	ug/Kg	10/20/25 11:41	VW102025
120-82-1	1,2,4-Trichlorobenzene	19.2		1	3.00	5.00	ug/Kg	10/20/25 11:41	VW102025
87-61-6	1,2,3-Trichlorobenzene	19.0		1	3.20	5.00	ug/Kg	10/20/25 11:41	VW102025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	52.1			63 - 155	104%	SPK: 50		
1868-53-7	Dibromofluoromethane	53.3			70 - 134	107%	SPK: 50		
2037-26-5	Toluene-d8	53.0			74 - 123	106%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.7			17 - 146	103%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	281000							
540-36-3	1,4-Difluorobenzene	517000							
3114-55-4	Chlorobenzene-d5	481000							
3855-82-1	1,4-Dichlorobenzene-d4	241000							

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_W\Data\VW102025\
Data File : VW032380.D
Acq On : 20 Oct 2025 11:41
Operator : SY/MD
Sample : VW1020SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 01:23:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	7.959	168	280998	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	517149	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.629	117	480746	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	240746	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.319	65	213734	52.149 ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 104.300%		
35) Dibromofluoromethane	7.898	113	178453	53.284 ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 106.560%		
50) Toluene-d8	10.325	98	655431	53.025 ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 106.040%		
62) 4-Bromofluorobenzene	12.617	95	241390	51.667 ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 103.340%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.046	85	35044	19.874 ug/l	99
3) Chloromethane	2.253	50	54581	20.061 ug/l	99
4) Vinyl Chloride	2.405	62	71685	22.069 ug/l	99
5) Bromomethane	2.820	94	50437	21.129 ug/l	99
6) Chloroethane	2.966	64	45866	21.387 ug/l	95
7) Trichlorofluoromethane	3.302	101	47291	19.445 ug/l	96
8) Diethyl Ether	3.716	74	42688	20.256 ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.106	101	60961	20.898 ug/l	95
10) Methyl Iodide	4.301	142	90782	21.811 ug/l	98
11) Tert butyl alcohol	5.216	59	25591	82.490 ug/l	98
12) 1,1-Dichloroethene	4.076	96	68828	21.733 ug/l	90
13) Acrolein	3.929	56	32482	64.514 ug/l	100
14) Allyl chloride	4.698	41	108462	20.277 ug/l	91
15) Acrylonitrile	5.405	53	100696	91.844 ug/l	99
16) Acetone	4.161	43	110171	97.079 ug/l	99
17) Carbon Disulfide	4.417	76	182726	21.147 ug/l	97
18) Methyl Acetate	4.710	43	57010	17.537 ug/l	99
19) Methyl tert-butyl Ether	5.460	73	118617	19.017 ug/l	97
20) Methylene Chloride	4.948	84	83888	19.017 ug/l	98
21) trans-1,2-Dichloroethene	5.454	96	73585	20.987 ug/l	97
22) Diisopropyl ether	6.338	45	227221	20.425 ug/l	94
23) Vinyl Acetate	6.283	43	713649	96.045 ug/l	100
24) 1,1-Dichloroethane	6.240	63	140635	20.809 ug/l	97
25) 2-Butanone	7.191	43	135380	87.590 ug/l	100
26) 2,2-Dichloropropane	7.185	77	76369	22.091 ug/l	99
27) cis-1,2-Dichloroethene	7.191	96	85339	20.260 ug/l	93
28) Bromochloromethane	7.526	49	66032	20.766 ug/l	88
29) Tetrahydrofuran	7.551	42	84977	87.426 ug/l	94
30) Chloroform	7.691	83	147499	21.519 ug/l	98
31) Cyclohexane	7.965	56	110671	19.181 ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	104287	21.471 ug/l	100
36) 1,1-Dichloropropene	8.093	75	97235	20.572 ug/l	98
37) Ethyl Acetate	7.270	43	57160	18.169 ug/l	99
38) Carbon Tetrachloride	8.081	117	97878	22.006 ug/l	98
39) Methylcyclohexane	9.343	83	110291	19.345 ug/l	98
40) Benzene	8.337	78	309652	20.901 ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032380.D
Acq On : 20 Oct 2025 11:41
Operator : SY/MD
Sample : VW1020SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 01:23:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.496	41	32519	19.180	ug/l		91
42) 1,2-Dichloroethane	8.410	62	99820	20.591	ug/l		100
43) Isopropyl Acetate	8.435	43	101969	18.271	ug/l		97
44) Trichloroethene	9.099	130	70587	20.348	ug/l		91
45) 1,2-Dichloropropane	9.374	63	77735	21.021	ug/l		97
46) Dibromomethane	9.465	93	47706	20.980	ug/l		93
47) Bromodichloromethane	9.648	83	114292	21.975	ug/l		94
48) Methyl methacrylate	9.441	41	47476	17.496	ug/l		93
49) 1,4-Dioxane	9.459	88	11448	368.334	ug/l	#	85
51) 4-Methyl-2-Pentanone	10.215	43	298346	92.294	ug/l		98
52) Toluene	10.392	92	191814	20.790	ug/l		98
53) t-1,3-Dichloropropene	10.605	75	102094	20.233	ug/l		98
54) cis-1,3-Dichloropropene	10.075	75	120341	20.705	ug/l		98
55) 1,1,2-Trichloroethane	10.788	97	62846	20.679	ug/l		97
56) Ethyl methacrylate	10.648	69	78320	18.412	ug/l		95
57) 1,3-Dichloropropane	10.934	76	109231	20.350	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.928	63	202349	89.381	ug/l		95
59) 2-Hexanone	10.971	43	211671	92.843	ug/l		97
60) Dibromochloromethane	11.129	129	74905	21.706	ug/l		99
61) 1,2-Dibromoethane	11.239	107	60047	20.263	ug/l		97
64) Tetrachloroethene	10.861	164	57861	20.114	ug/l		88
65) Chlorobenzene	11.660	112	213685	20.202	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.727	131	72938	22.139	ug/l		97
67) Ethyl Benzene	11.727	91	361301	20.492	ug/l		94
68) m/p-Xylenes	11.837	106	279914	41.170	ug/l		100
69) o-Xylene	12.166	106	125704	19.771	ug/l		97
70) Styrene	12.178	104	233906	21.071	ug/l		97
71) Bromoform	12.349	173	40631	21.516	ug/l	#	98
73) Isopropylbenzene	12.458	105	326100	19.799	ug/l		100
74) N-amyl acetate	12.269	43	92502	17.605	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.714	83	77328	18.908	ug/l		100
76) 1,2,3-Trichloropropane	12.763	75	67320m	21.249	ug/l		
77) Bromobenzene	12.745	156	80266	20.216	ug/l		93
78) n-propylbenzene	12.800	91	415401	20.190	ug/l		97
79) 2-Chlorotoluene	12.891	91	252737	20.091	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	280554	19.699	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.507	75	24052	19.233	ug/l		92
82) 4-Chlorotoluene	12.989	91	270686	20.239	ug/l		99
83) tert-Butylbenzene	13.202	119	226702	19.400	ug/l		97
84) 1,2,4-Trimethylbenzene	13.245	105	290311	20.046	ug/l		100
85) sec-Butylbenzene	13.379	105	350178	19.609	ug/l		100
86) p-Isopropyltoluene	13.495	119	293214	19.788	ug/l		100
87) 1,3-Dichlorobenzene	13.495	146	163992	20.398	ug/l		96
88) 1,4-Dichlorobenzene	13.574	146	162933	20.268	ug/l		98
89) n-Butylbenzene	13.818	91	285250	19.717	ug/l		97
90) Hexachloroethane	14.086	117	58655	22.085	ug/l		94
91) 1,2-Dichlorobenzene	13.867	146	145087	19.964	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.476	75	13154	18.371	ug/l		87
93) 1,2,4-Trichlorobenzene	15.129	180	83664	19.198	ug/l		96
94) Hexachlorobutadiene	15.226	225	40248	20.200	ug/l		89
95) Naphthalene	15.360	128	178782	17.083	ug/l		99
96) 1,2,3-Trichlorobenzene	15.549	180	78242	19.048	ug/l		98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032380.D
Acq On : 20 Oct 2025 11:41
Operator : SY/MD
Sample : VW1020SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 21 01:23:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

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

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

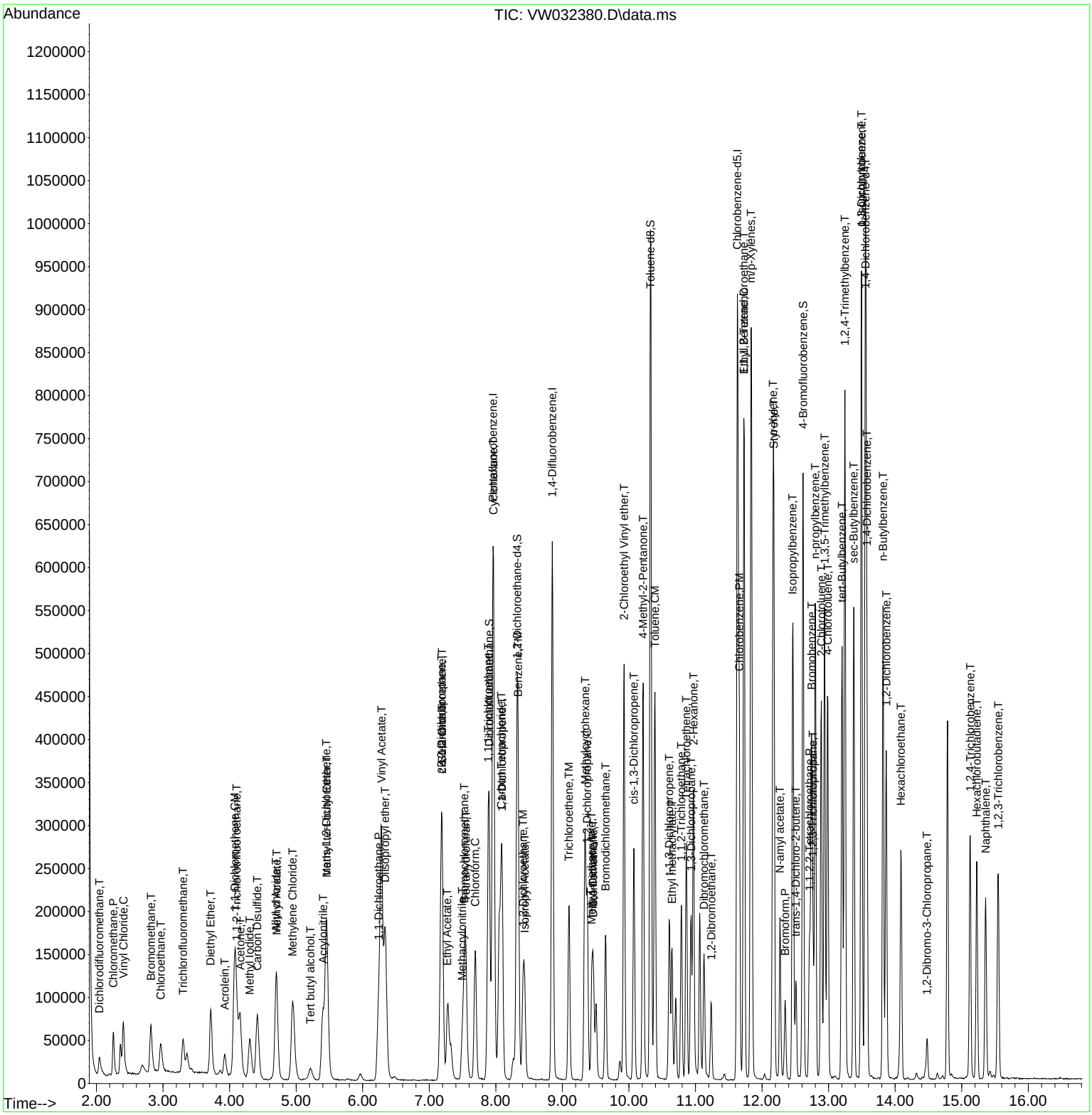
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032380.D
Acq On : 20 Oct 2025 11:41
Operator : SY/MD
Sample : VW1020SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

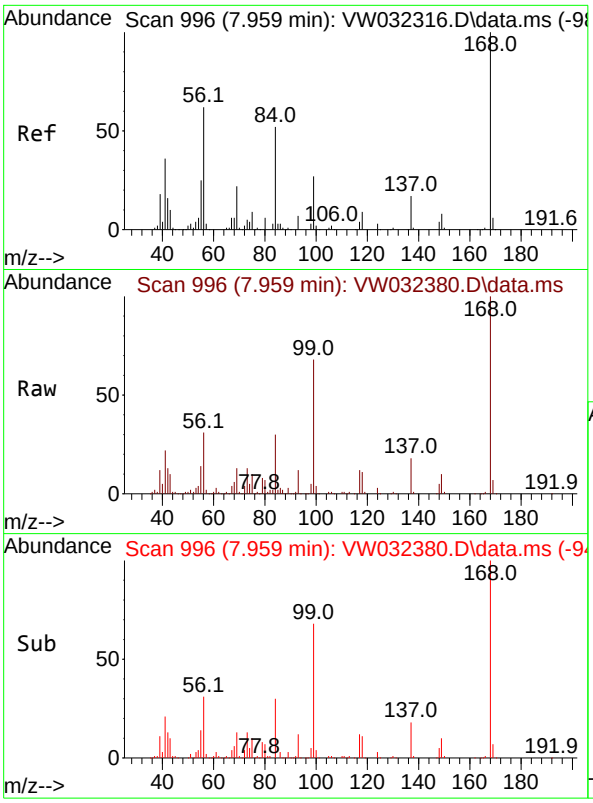
Quant Time: Oct 21 01:23:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

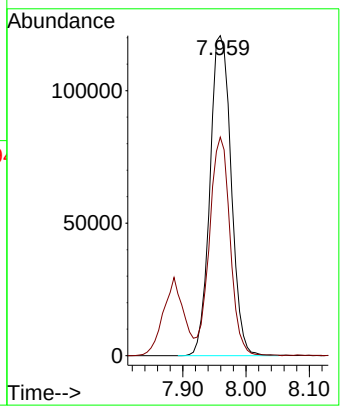




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:168 Resp: 28099

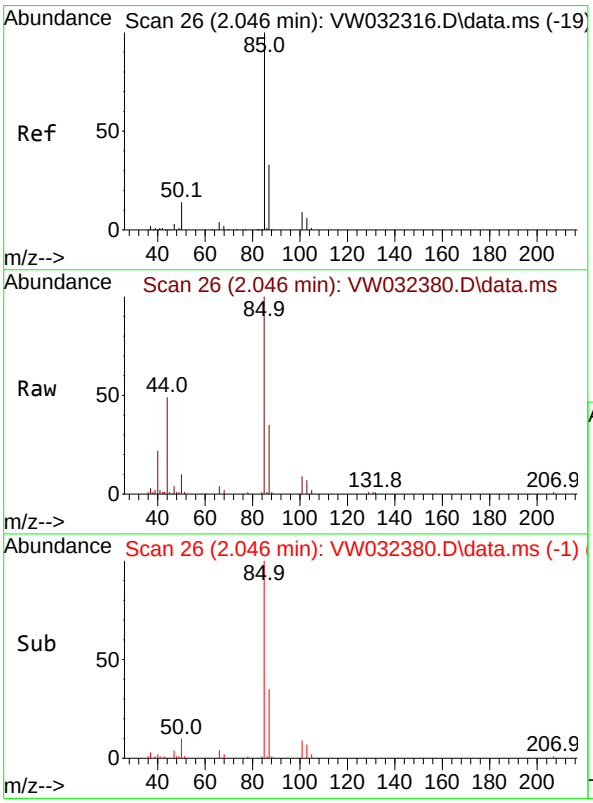
Ion	Ratio	Lower	Upper
168	100		
99	68.2	49.3	73.9



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

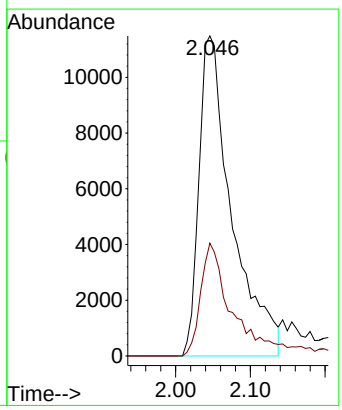
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

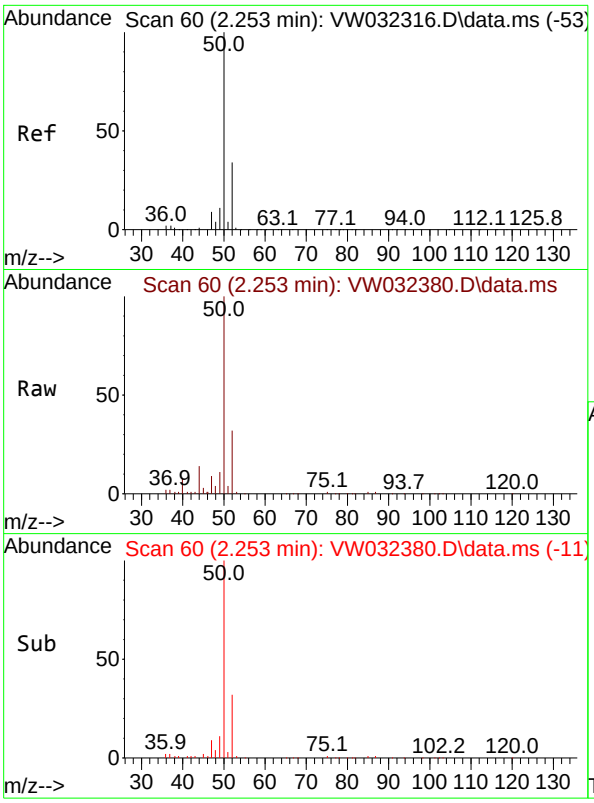


#2
Dichlorodifluoromethane
Concen: 19.874 ug/l
RT: 2.046 min Scan# 26
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 85 Resp: 35044

Ion	Ratio	Lower	Upper
85	100		
87	35.3	17.2	51.6

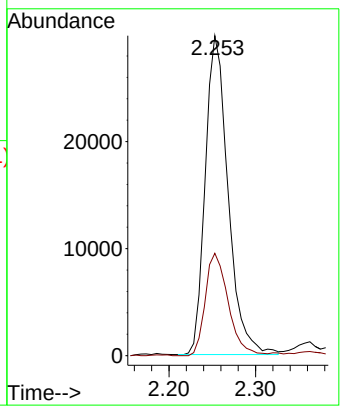




#3
Chloromethane
Concen: 20.061 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 50 Resp: 5458

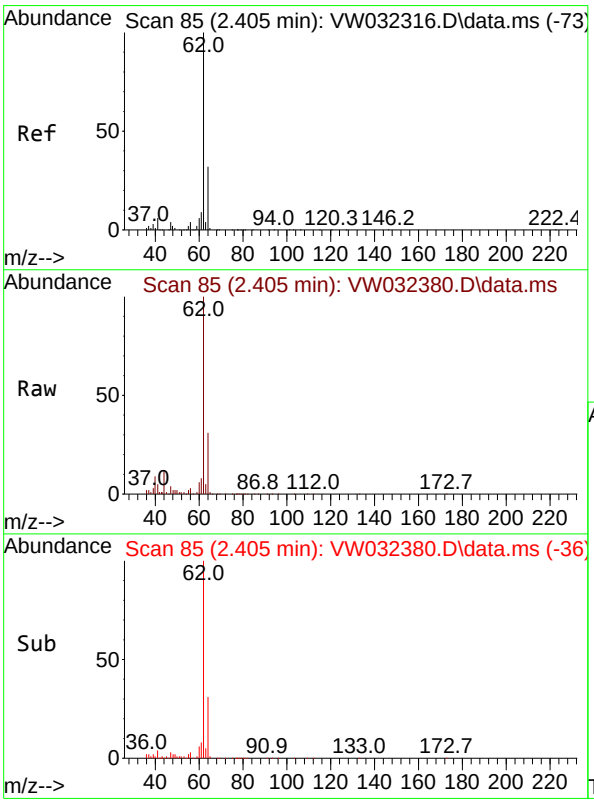
Ion	Ratio	Lower	Upper
50	100		
52	32.1	26.1	39.1



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

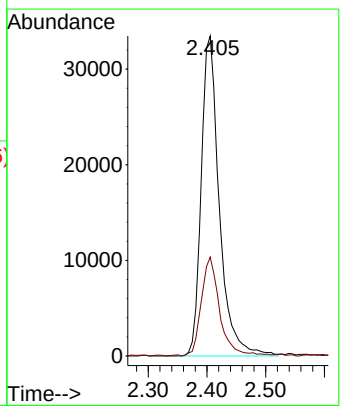
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

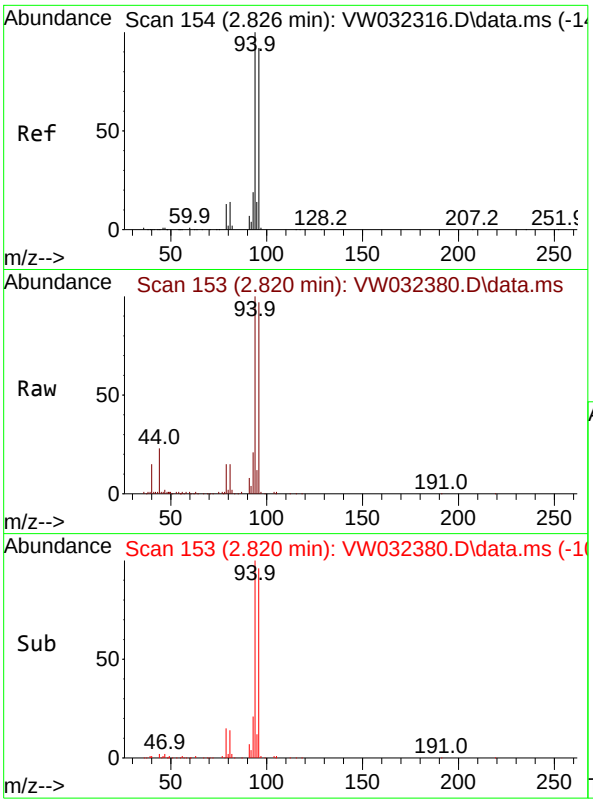


#4
Vinyl Chloride
Concen: 22.069 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 62 Resp: 71685

Ion	Ratio	Lower	Upper
62	100		
64	30.6	24.8	37.2

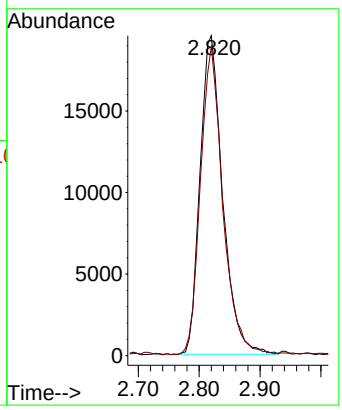




#5
Bromomethane
Concen: 21.129 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 94 Resp: 5043

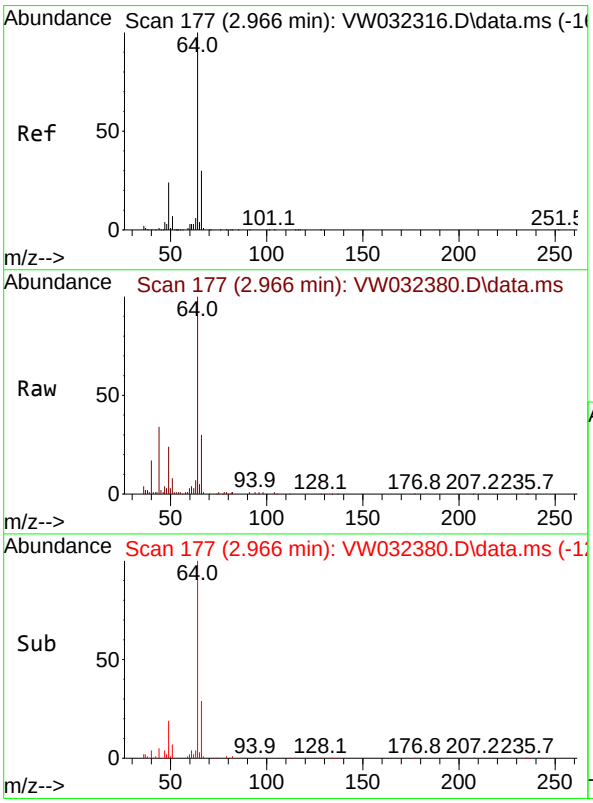
Ion	Ratio	Lower	Upper
94	100		
96	96.7	76.6	115.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

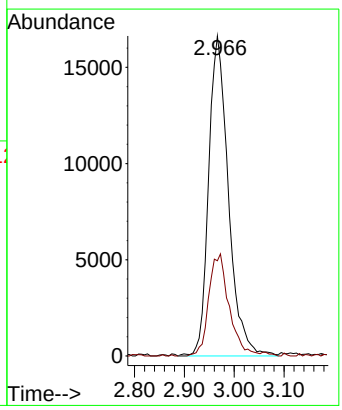
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

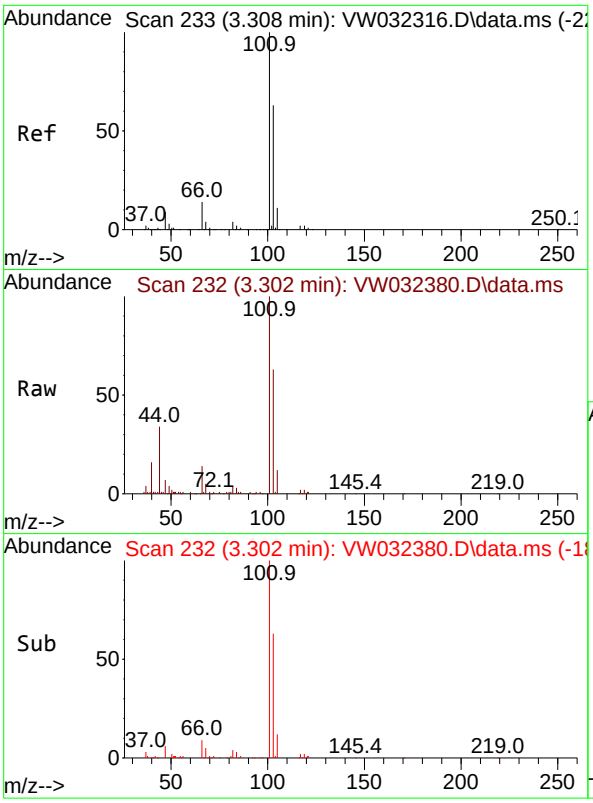


#6
Chloroethane
Concen: 21.387 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 64 Resp: 45866

Ion	Ratio	Lower	Upper
64	100		
66	29.7	26.2	39.4

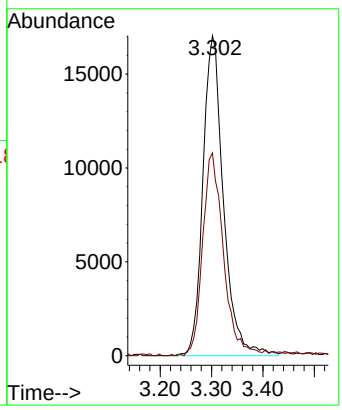




#7
Trichlorofluoromethane
Concen: 19.445 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:101 Resp: 4729

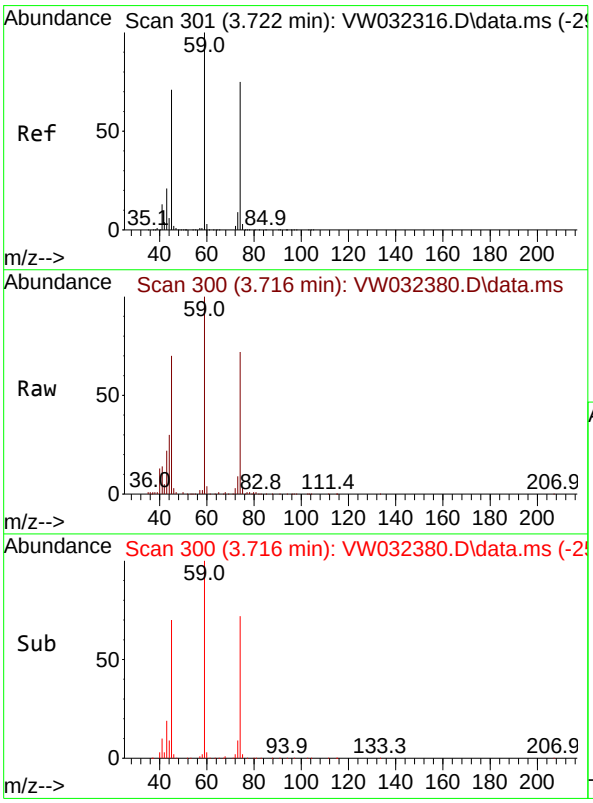
Ion	Ratio	Lower	Upper
101	100		
103	62.9	47.8	71.8



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

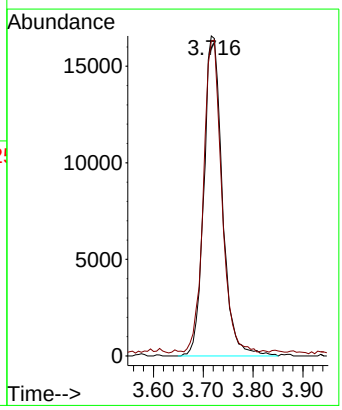
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

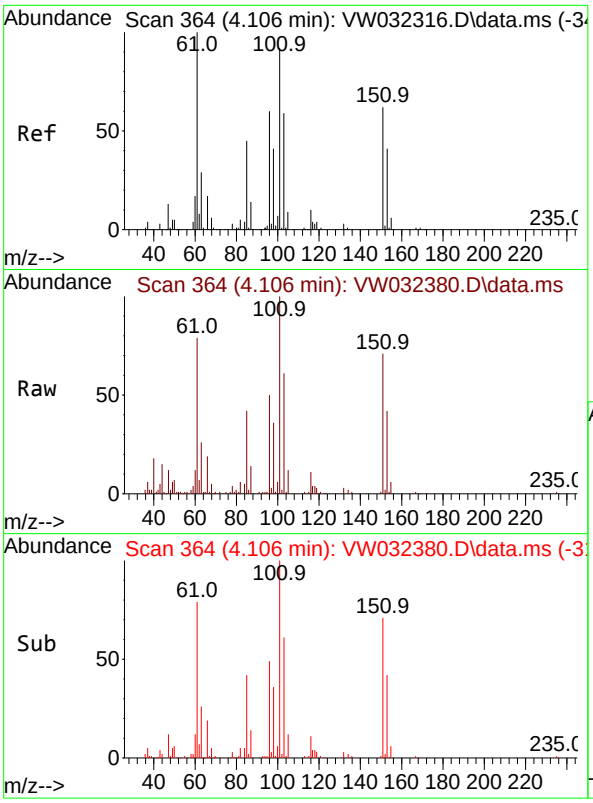


#8
Diethyl Ether
Concen: 20.256 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 74 Resp: 42688

Ion	Ratio	Lower	Upper
74	100		
45	95.7	43.1	129.4

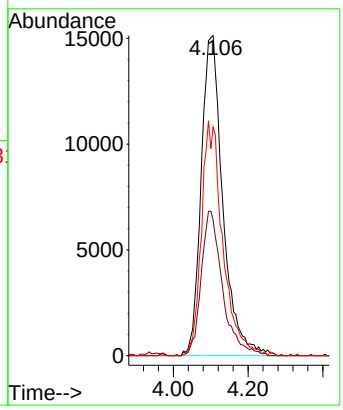




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.898 ug/l
RT: 4.106 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

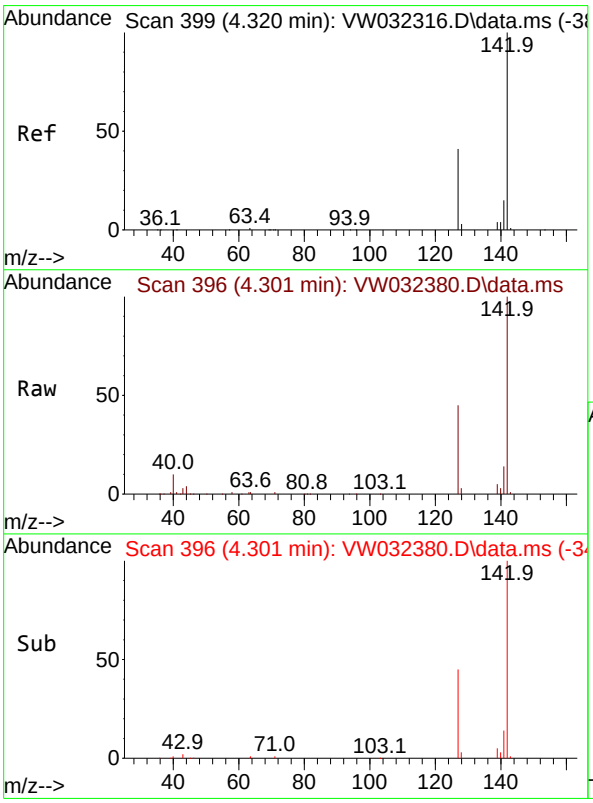
Tgt Ion:101 Resp: 6096

Ion	Ratio	Lower	Upper
101	100		
85	44.4	37.1	55.7
151	71.9	61.5	92.3



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

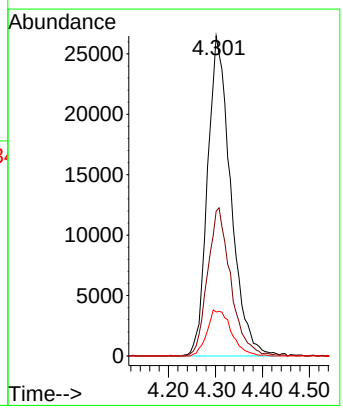
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

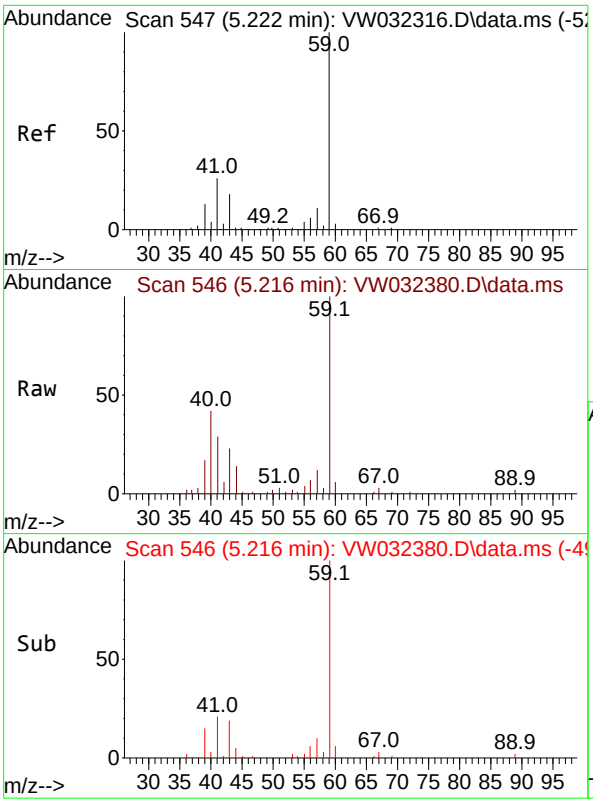


#10
Methyl Iodide
Concen: 21.811 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.012 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:142 Resp: 90782

Ion	Ratio	Lower	Upper
142	100		
127	46.3	38.2	57.2
141	15.1	12.2	18.2

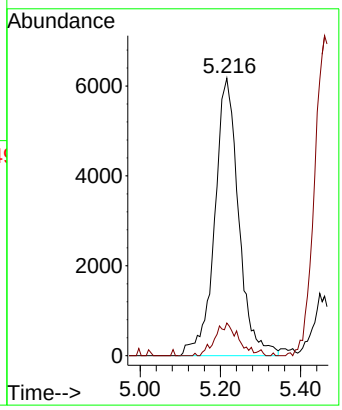




#11
Tert butyl alcohol
Concen: 82.490 ug/l
RT: 5.216 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 59 Resp: 2559

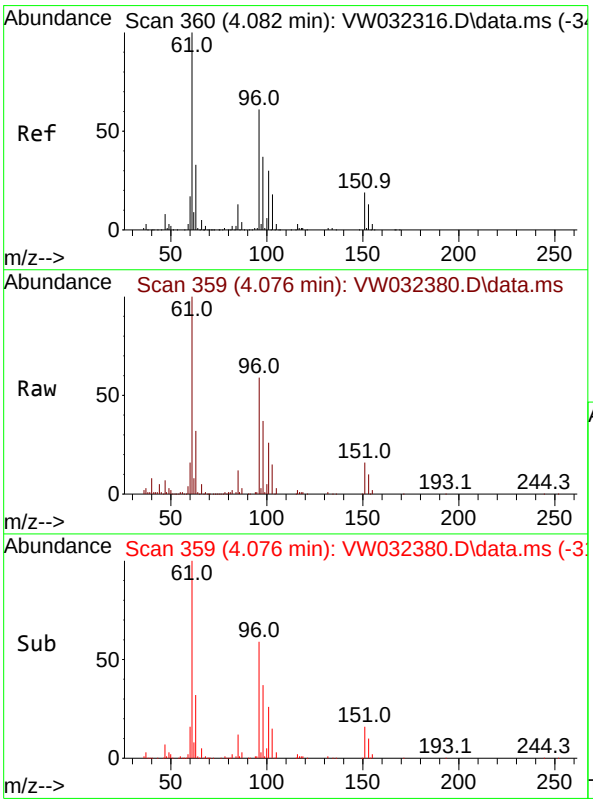
Ion	Ratio	Lower	Upper
59	100		
57	11.3	9.8	14.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

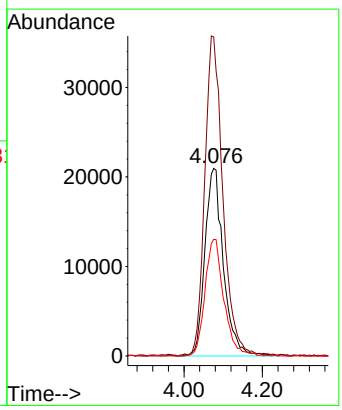
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

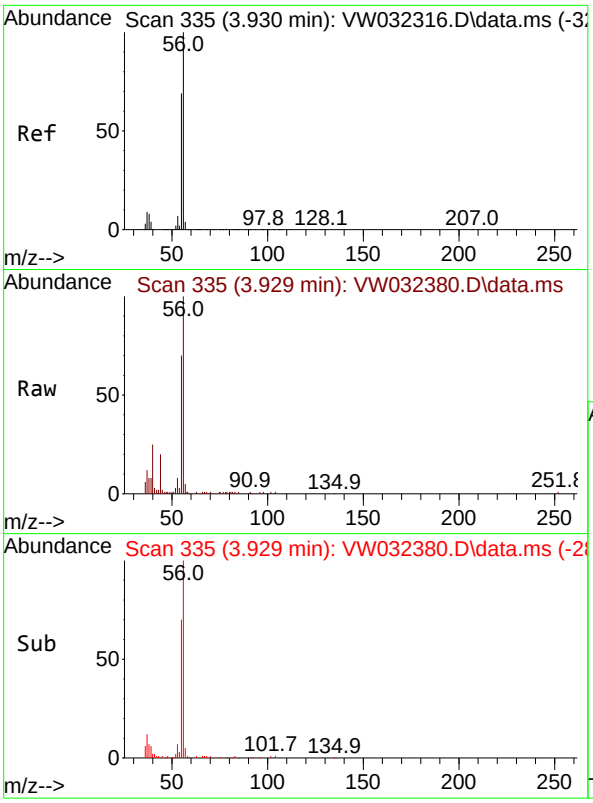


#12
1,1-Dichloroethene
Concen: 21.733 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 96 Resp: 68828

Ion	Ratio	Lower	Upper
96	100		
61	170.0	123.0	184.4
98	62.2	48.5	72.7

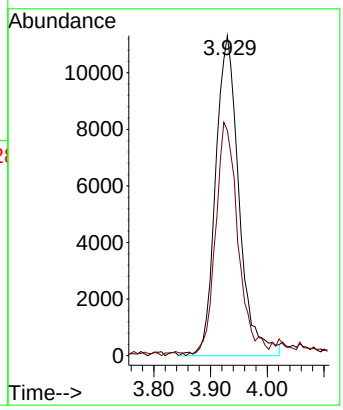




#13
Acrolein
Concen: 64.514 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 56 Resp: 3248

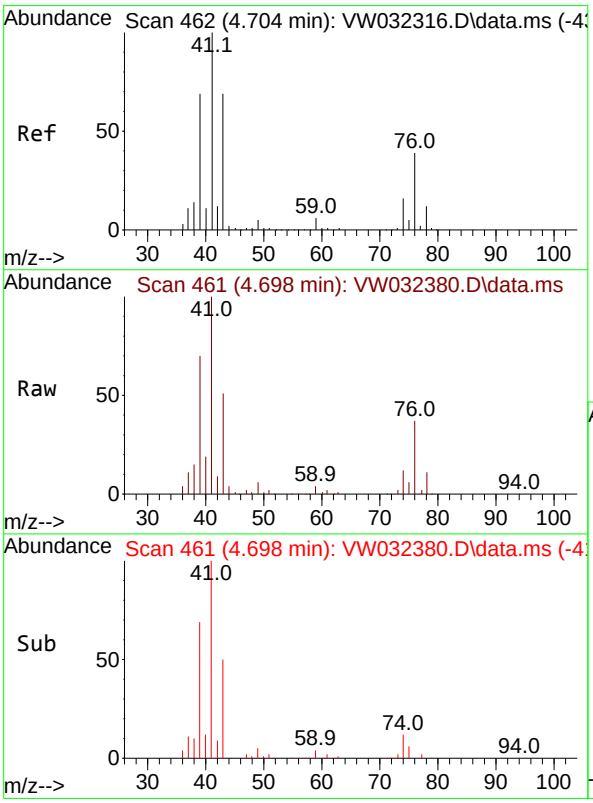
Ion	Ratio	Lower	Upper
56	100		
55	70.5	56.4	84.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

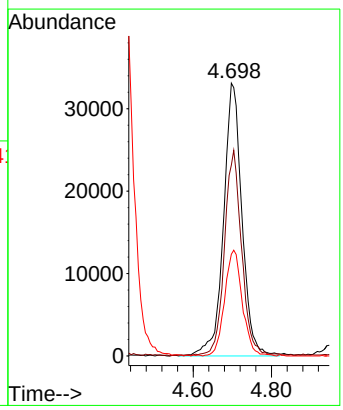
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

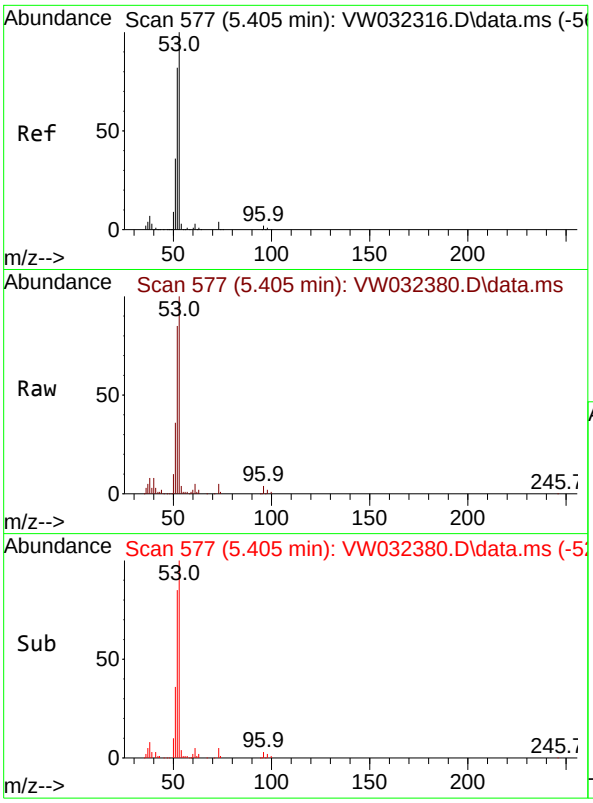


#14
Allyl chloride
Concen: 20.277 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 41 Resp: 108462

Ion	Ratio	Lower	Upper
41	100		
39	69.5	64.1	96.1
76	37.3	31.4	47.2

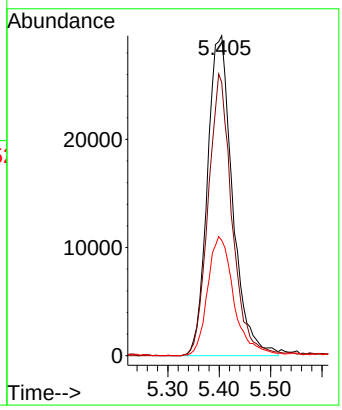




#15
Acrylonitrile
Concen: 91.844 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 53 Resp: 10069

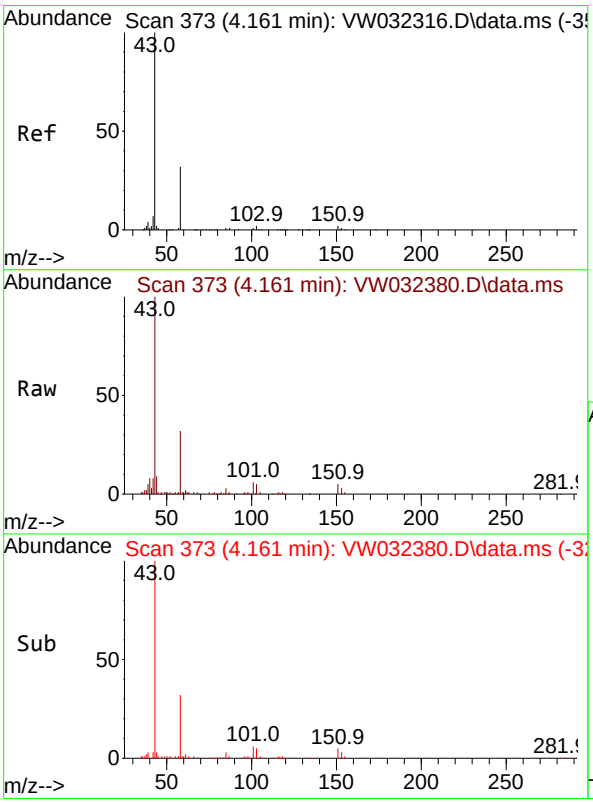
Ion	Ratio	Lower	Upper
53	100		
52	83.2	67.4	101.2
51	38.9	30.3	45.5



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

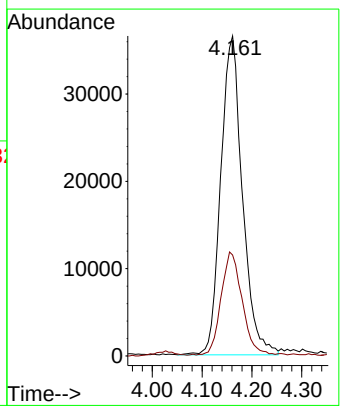
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

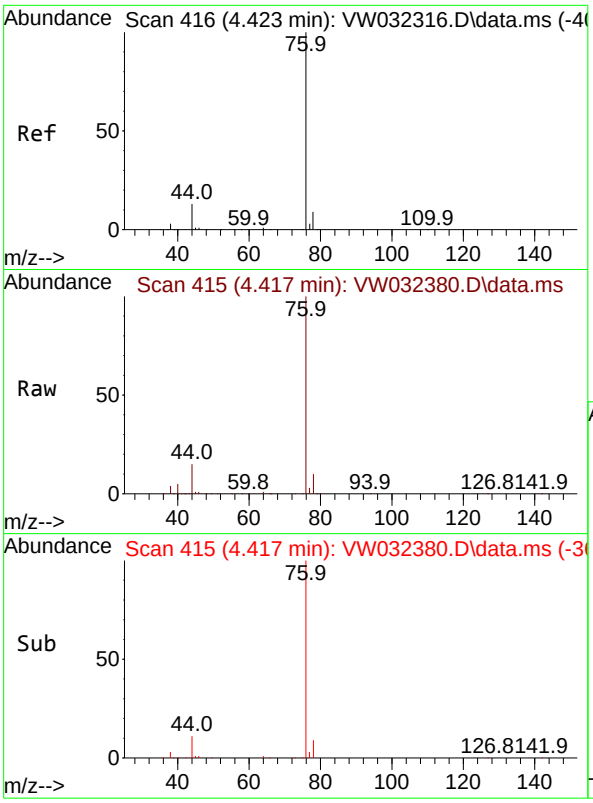


#16
Acetone
Concen: 97.079 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 43 Resp: 110171

Ion	Ratio	Lower	Upper
43	100		
58	31.1	25.3	37.9





#17
Carbon Disulfide
Concen: 21.147 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

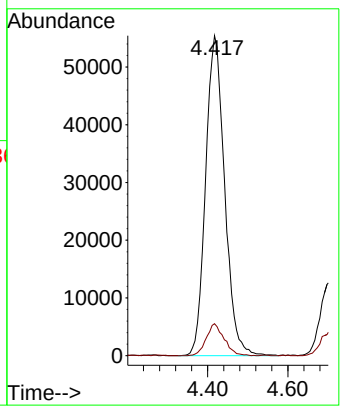
Tgt Ion: 76 Resp: 18272

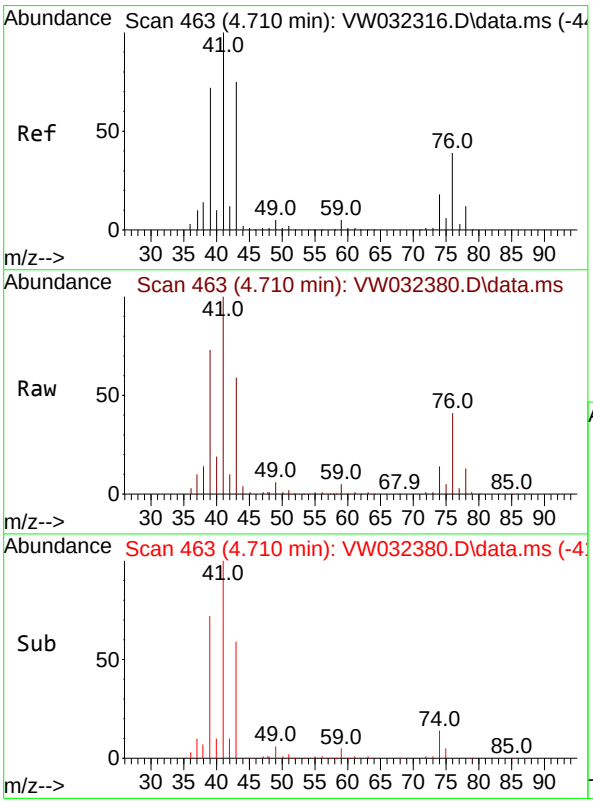
Ion	Ratio	Lower	Upper
76	100		
78	10.0	7.0	10.6

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

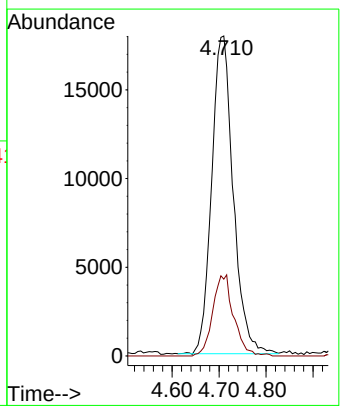


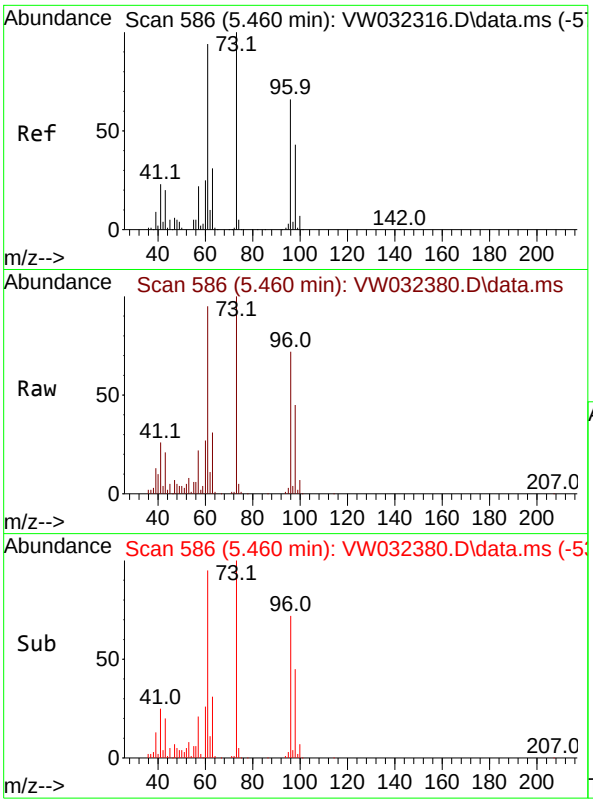


#18
Methyl Acetate
Concen: 17.537 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 43 Resp: 57010

Ion	Ratio	Lower	Upper
43	100		
74	24.8	20.2	30.4

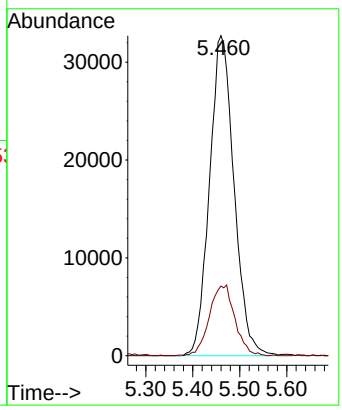




#19
Methyl tert-butyl Ether
Concen: 19.017 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 73 Resp: 11861

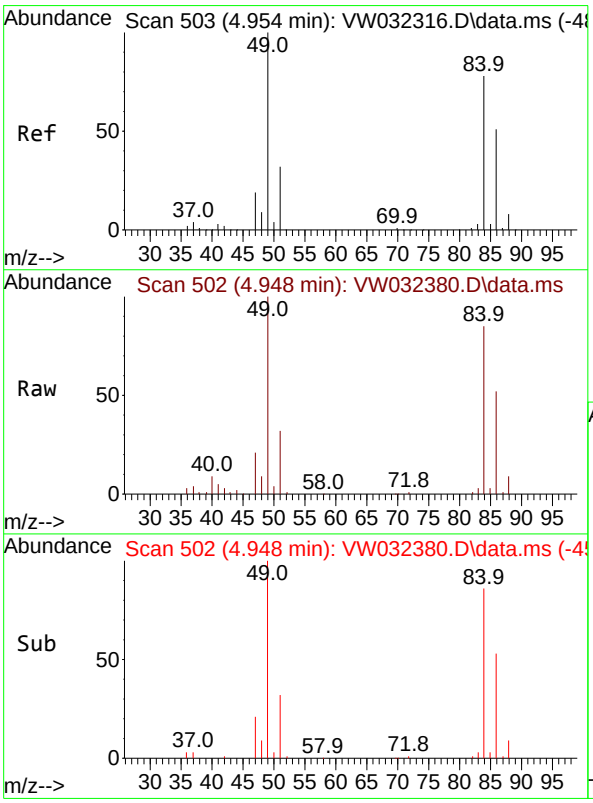
Ion	Ratio	Lower	Upper
73	100		
57	21.8	16.2	24.4



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

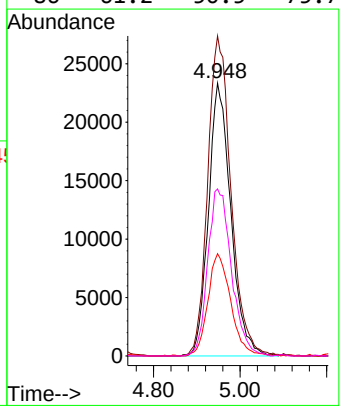
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

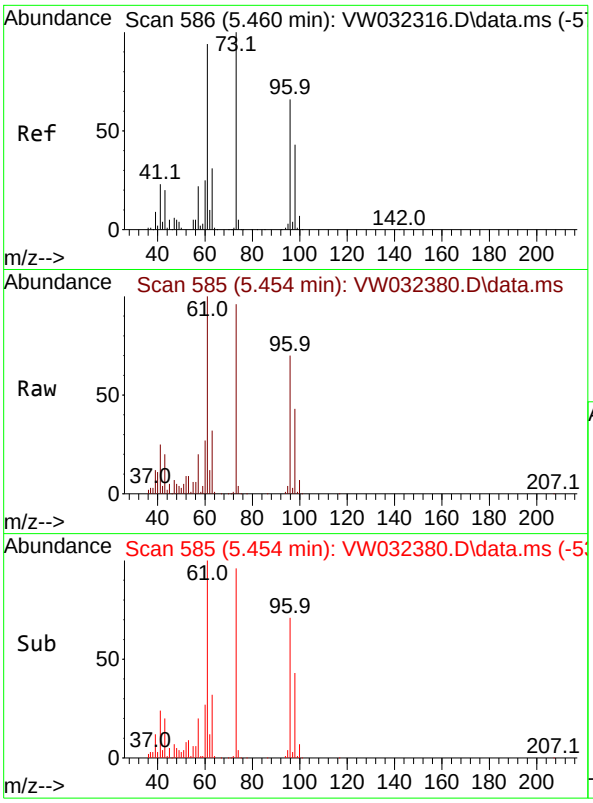


#20
Methylene Chloride
Concen: 19.017 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 84 Resp: 83888

Ion	Ratio	Lower	Upper
84	100		
49	117.3	92.2	138.4
51	37.5	31.0	46.6
86	61.2	50.5	75.7

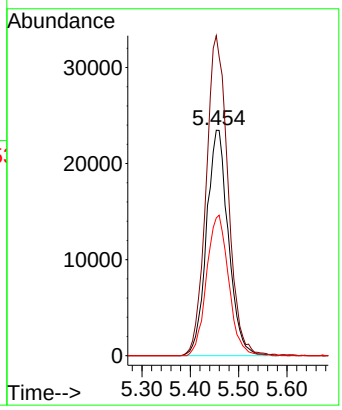




#21
trans-1,2-Dichloroethene
Concen: 20.987 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 96 Resp: 7358

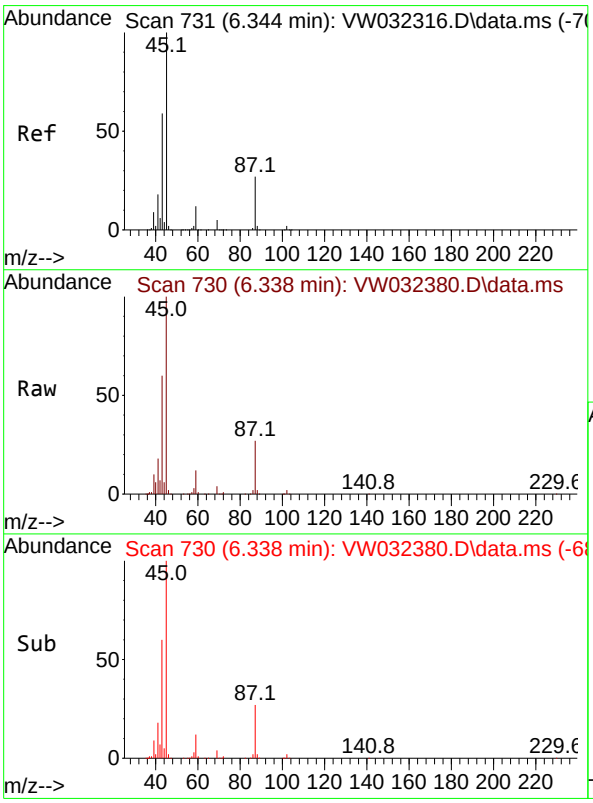
Ion	Ratio	Lower	Upper
96	100		
61	142.0	112.5	168.7
98	61.1	54.2	81.4



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

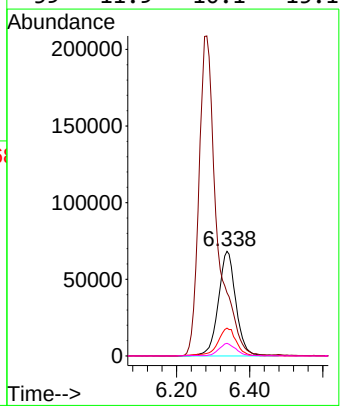
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

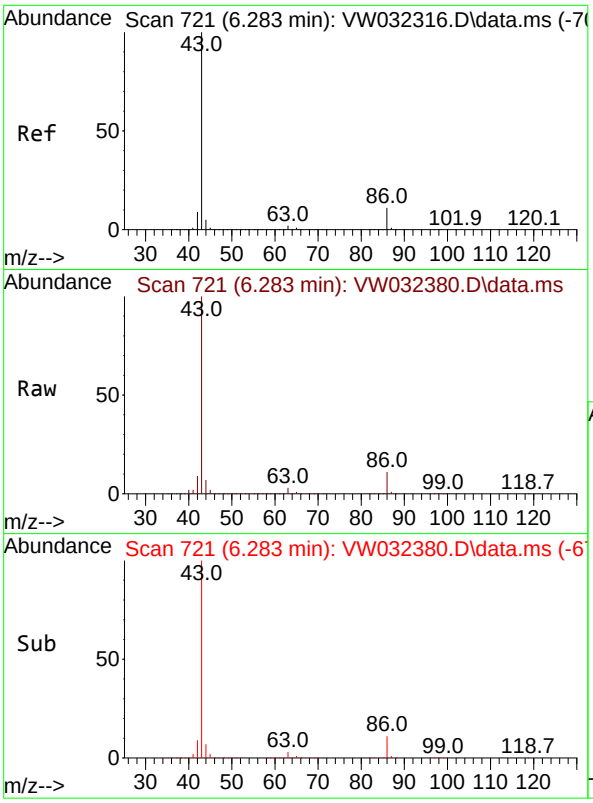


#22
Diisopropyl ether
Concen: 20.425 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 45 Resp: 227221

Ion	Ratio	Lower	Upper
45	100		
43	60.4	51.4	77.2
87	26.6	25.9	38.9
59	11.9	10.1	15.1

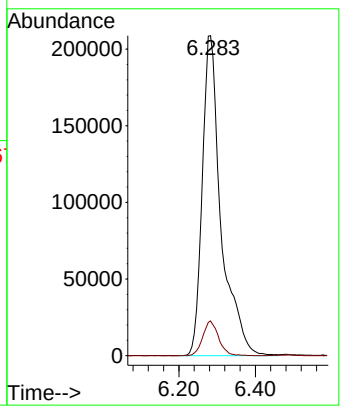




#23
Vinyl Acetate
Concen: 96.045 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 43 Resp: 71364

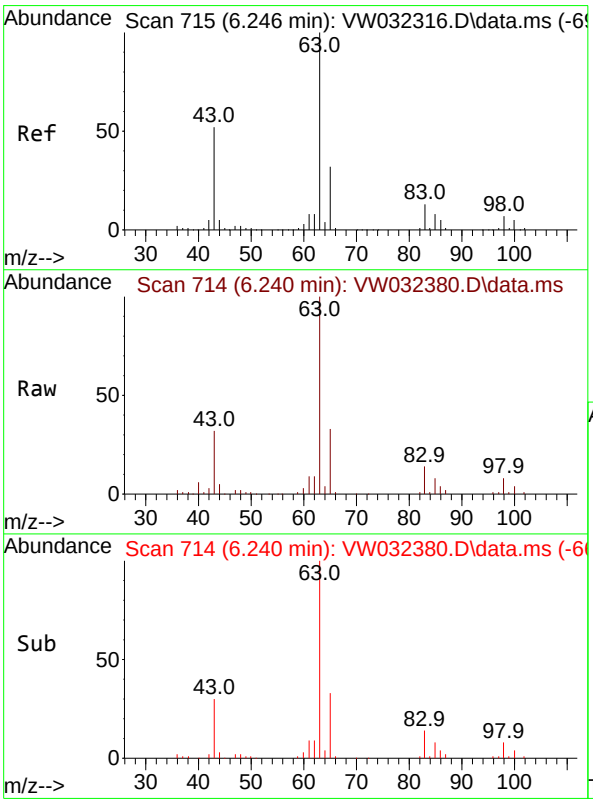
Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.8	13.2



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

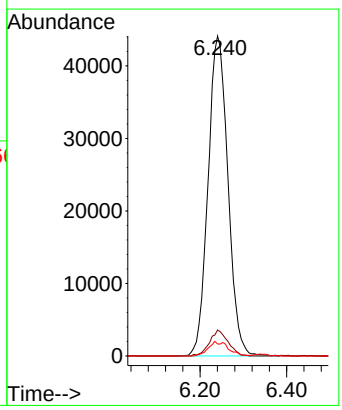
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

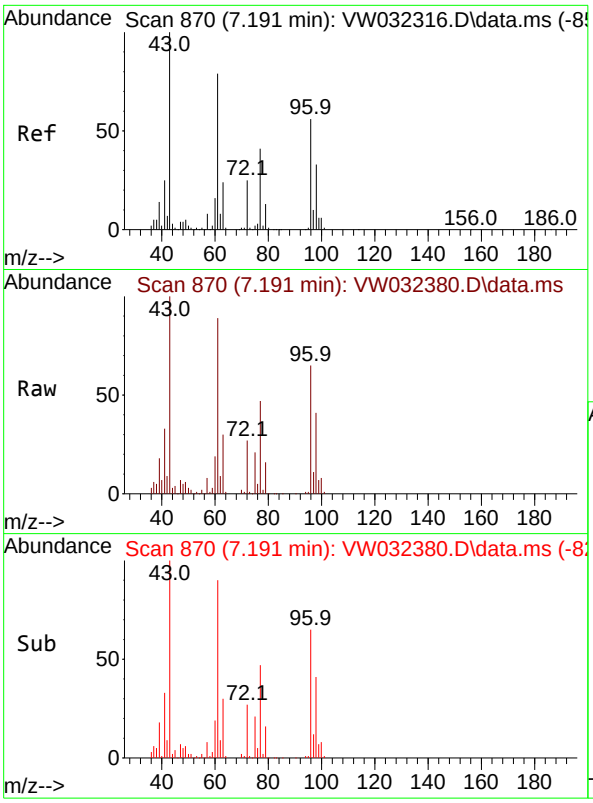


#24
1,1-Dichloroethane
Concen: 20.809 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 63 Resp: 140635

Ion	Ratio	Lower	Upper
63	100		
98	8.1	3.8	11.2
100	3.8	2.5	7.5

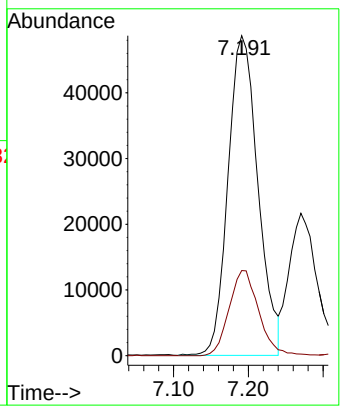




#25
2-Butanone
Concen: 87.590 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 43 Resp: 13538

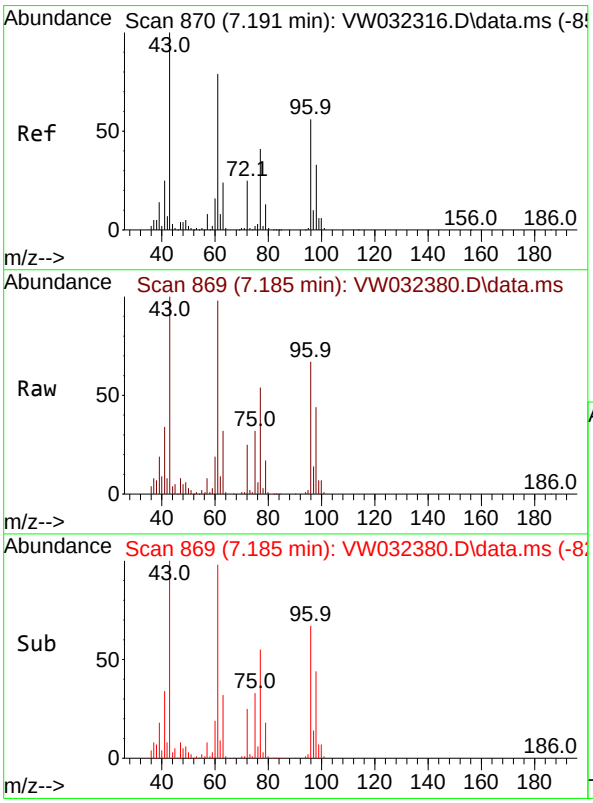
Ion	Ratio	Lower	Upper
43	100		
72	26.6	21.4	32.2



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

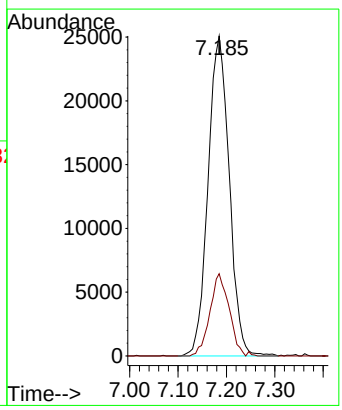
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

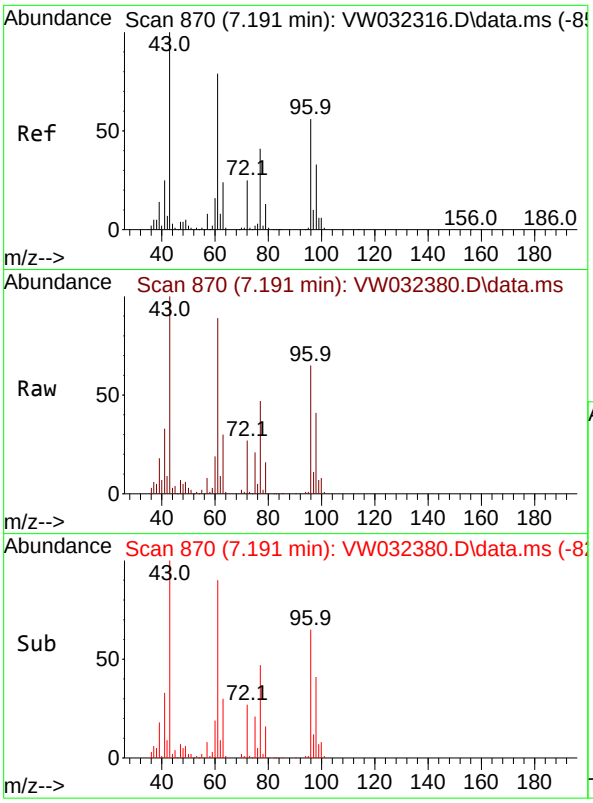


#26
2,2-Dichloropropane
Concen: 22.091 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 77 Resp: 76369

Ion	Ratio	Lower	Upper
77	100		
97	23.2	11.9	35.5

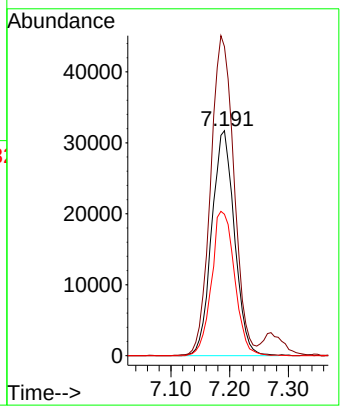




#27
cis-1,2-Dichloroethene
Concen: 20.260 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 96 Resp: 8533

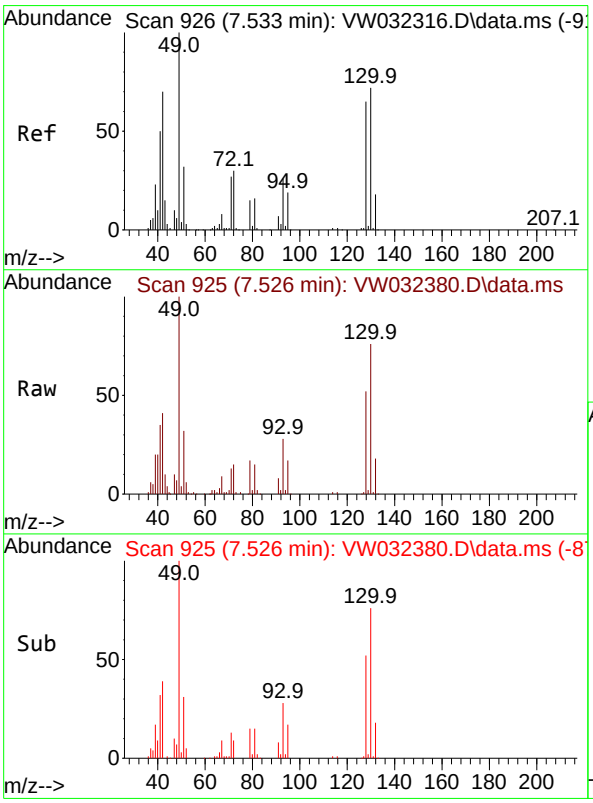
Ion	Ratio	Lower	Upper
96	100		
61	146.3	0.0	268.0
98	65.1	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

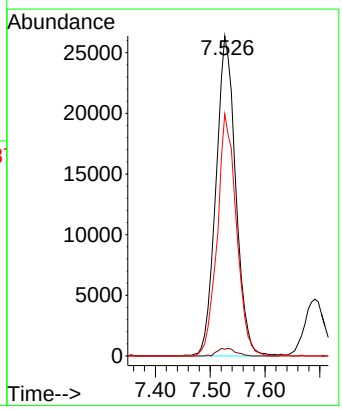
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

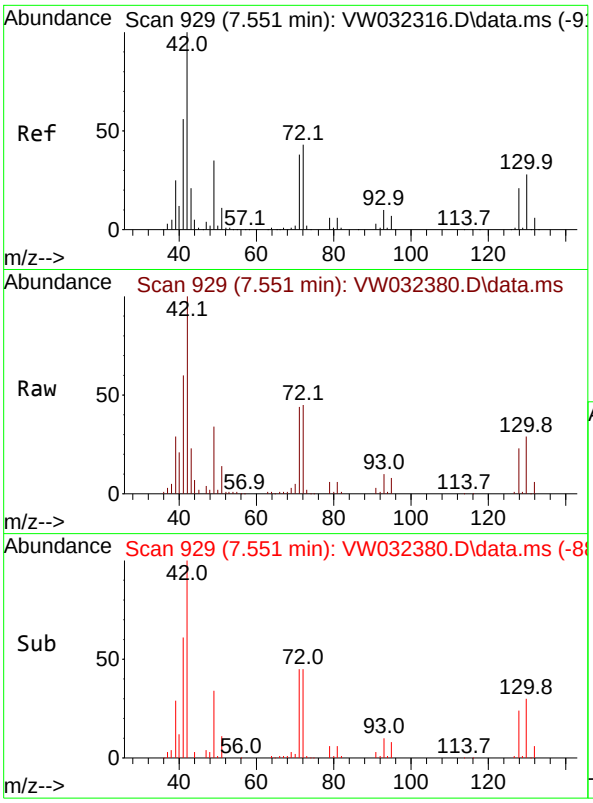


#28
Bromochloromethane
Concen: 20.766 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 49 Resp: 66032

Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	73.3	67.5	101.3

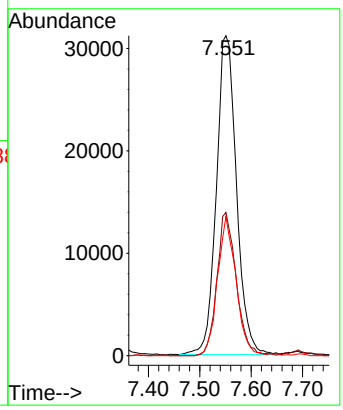




#29
Tetrahydrofuran
Concen: 87.426 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

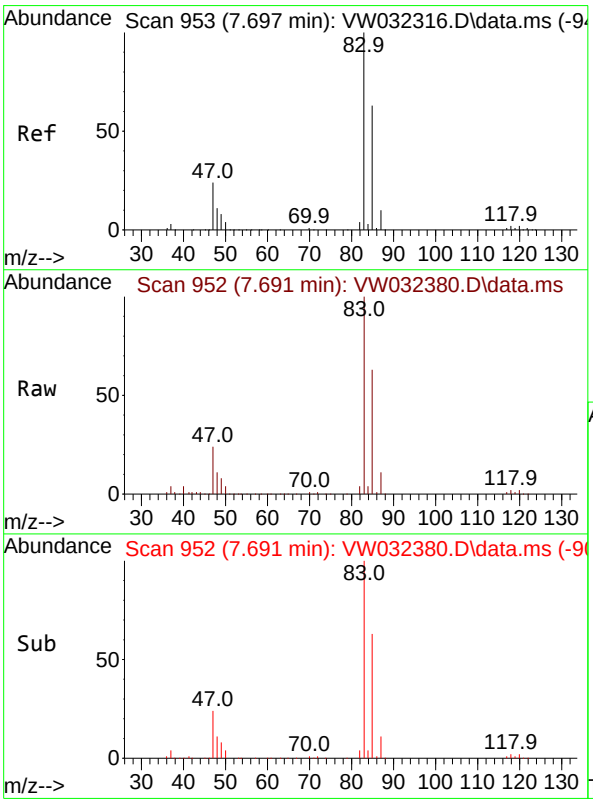
Tgt Ion: 42 Resp: 8497

Ion	Ratio	Lower	Upper
42	100		
72	43.2	37.4	56.2
71	40.1	36.0	54.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

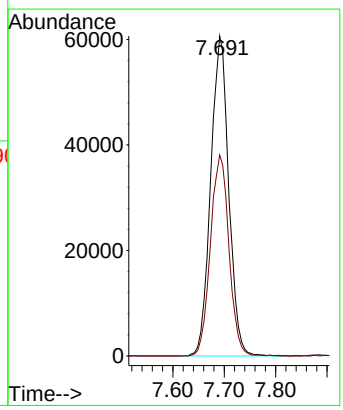
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

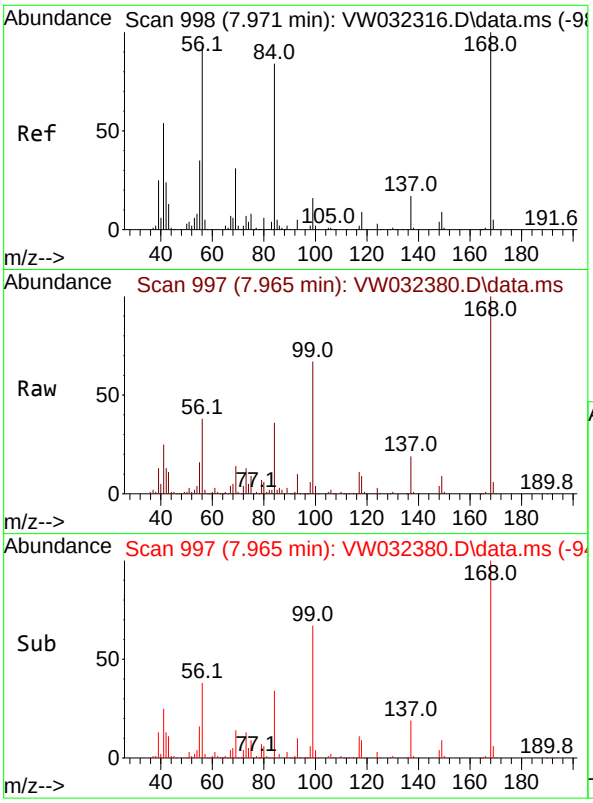


#30
Chloroform
Concen: 21.519 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 83 Resp: 147499

Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.2	76.8

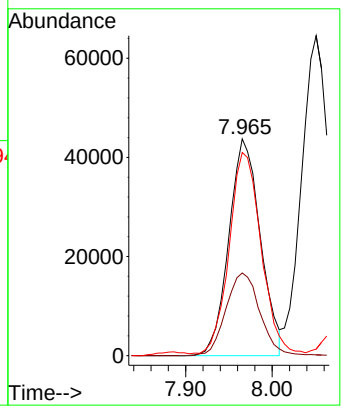




#31
Cyclohexane
Concen: 19.181 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 56 Resp: 11067

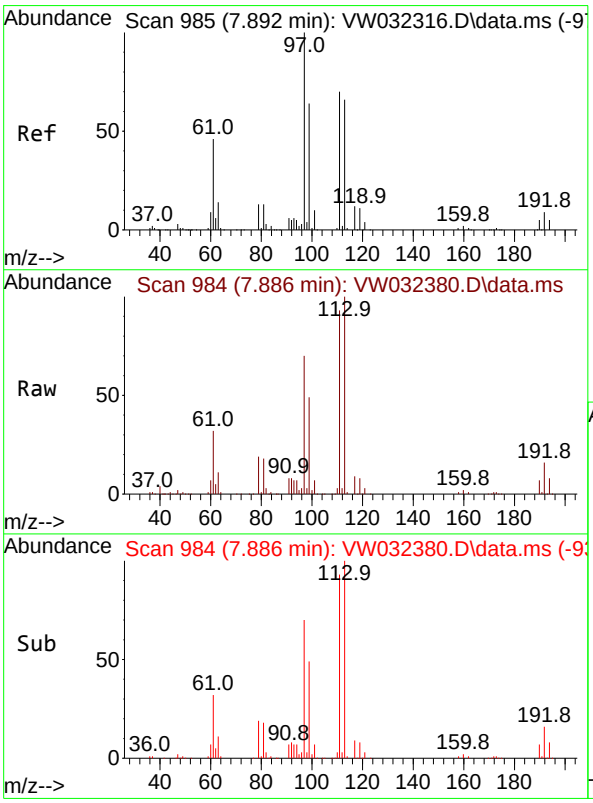
Ion	Ratio	Lower	Upper
56	100		
69	38.1	27.7	41.5
84	92.3	74.6	112.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

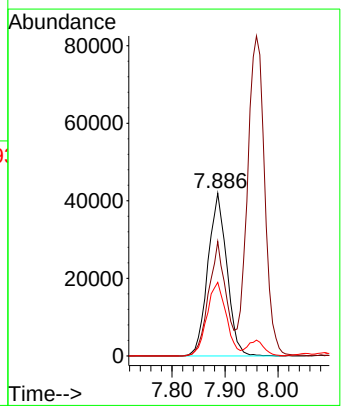
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

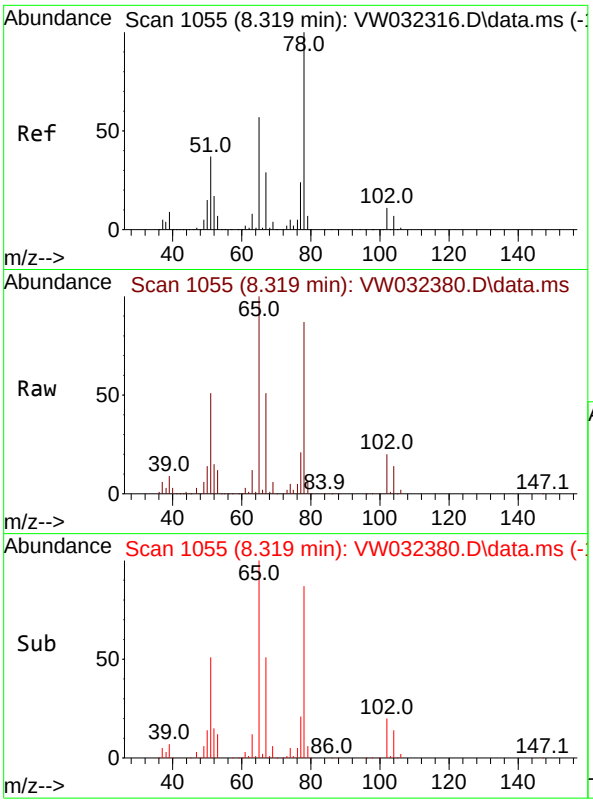


#32
1,1,1-Trichloroethane
Concen: 21.471 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 97 Resp: 104287

Ion	Ratio	Lower	Upper
97	100		
99	63.7	50.9	76.3
61	46.0	36.2	54.4

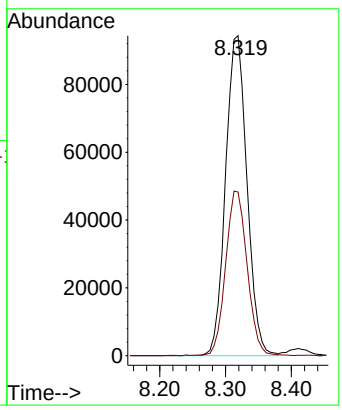




#33
1,2-Dichloroethane-d4
Concen: 52.149 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 65 Resp: 21373

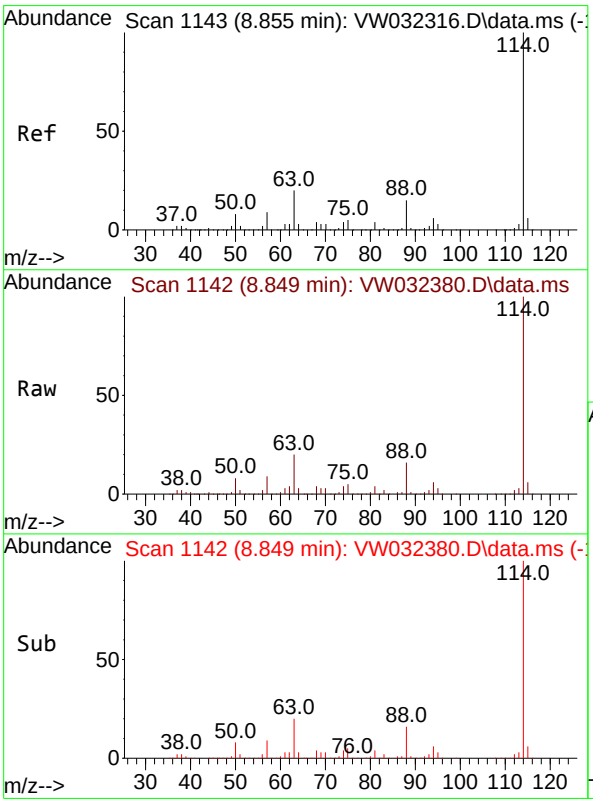
Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	99.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

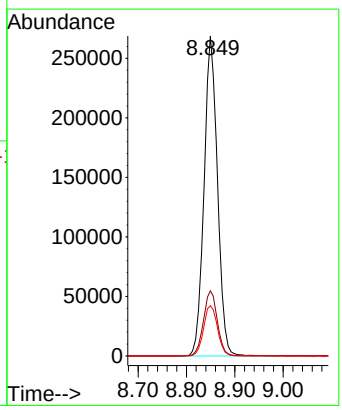
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

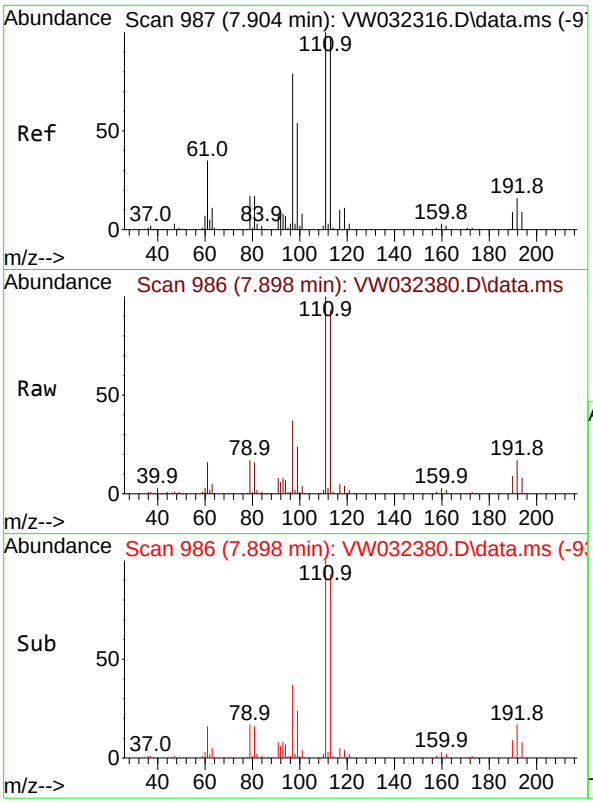


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:114 Resp: 517149

Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	40.4
88	15.7	0.0	32.0

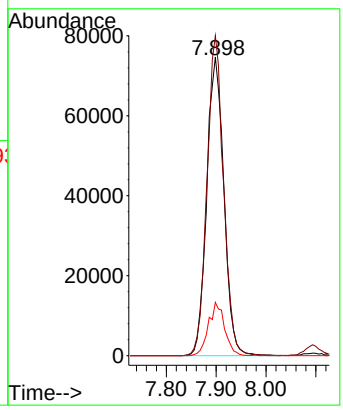




#35
Dibromofluoromethane
Concen: 53.284 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:113 Resp: 17845

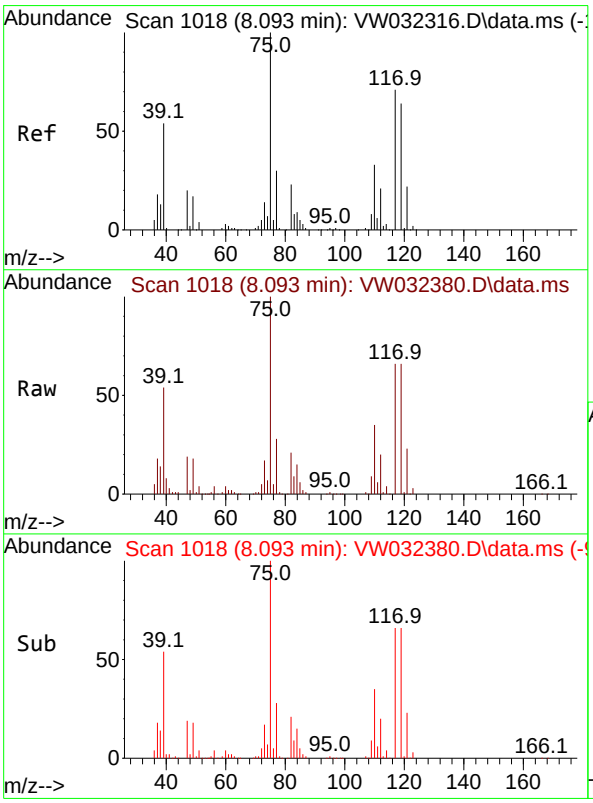
Ion	Ratio	Lower	Upper
113	100		
111	103.6	83.9	125.9
192	16.8	14.6	21.8



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

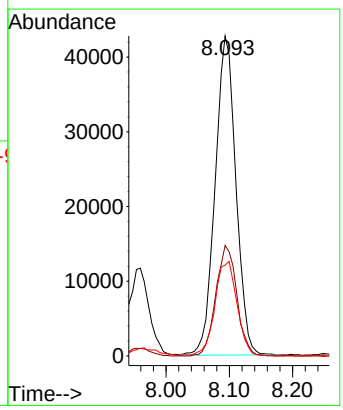
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

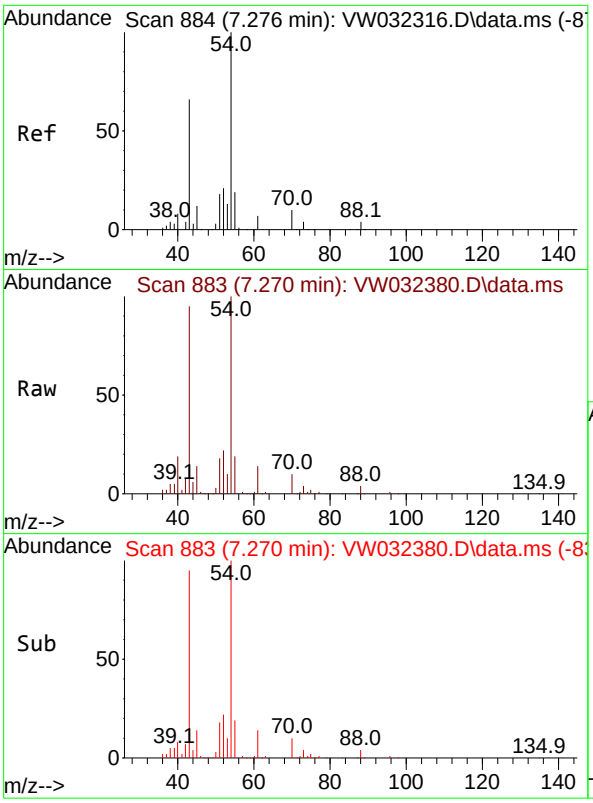


#36
1,1-Dichloropropene
Concen: 20.572 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 75 Resp: 97235

Ion	Ratio	Lower	Upper
75	100		
110	34.9	17.5	52.5
77	31.8	24.1	36.1

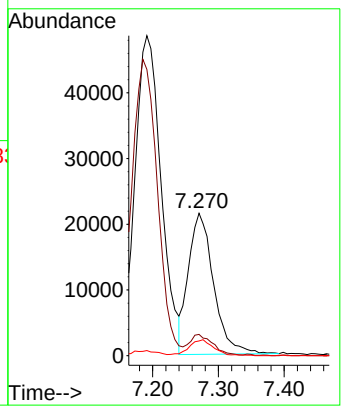




#37
Ethyl Acetate
Concen: 18.169 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 43 Resp: 5716

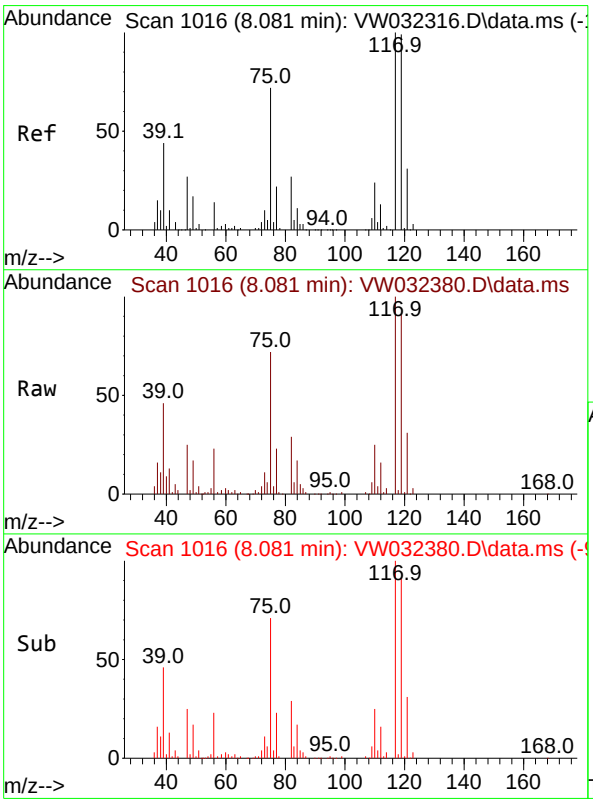
Ion	Ratio	Lower	Upper
43	100		
61	13.2	11.3	16.9
70	11.0	8.9	13.3



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

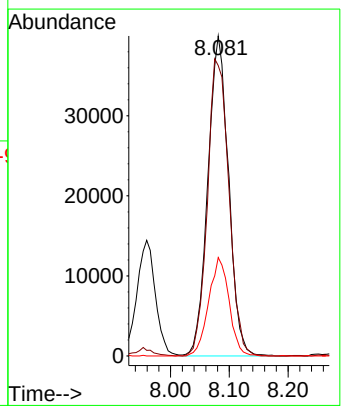
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

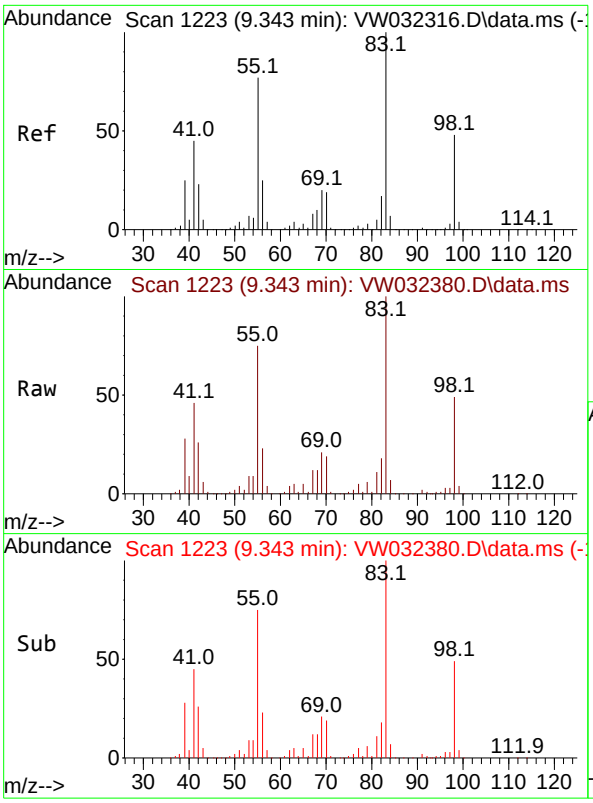


#38
Carbon Tetrachloride
Concen: 22.006 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:117 Resp: 97878

Ion	Ratio	Lower	Upper
117	100		
119	90.7	74.2	111.2
121	30.8	25.6	38.4

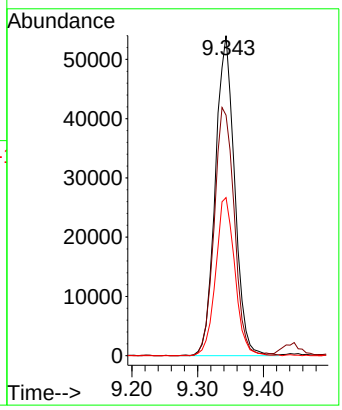




#39
Methylcyclohexane
Concen: 19.345 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 83 Resp: 11029

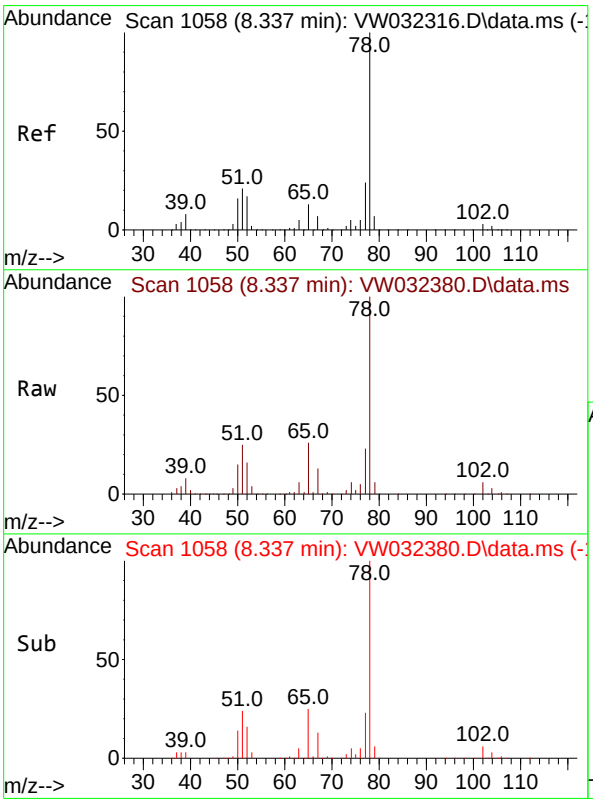
Ion	Ratio	Lower	Upper
83	100		
55	75.2	58.4	87.6
98	49.4	39.4	59.2



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

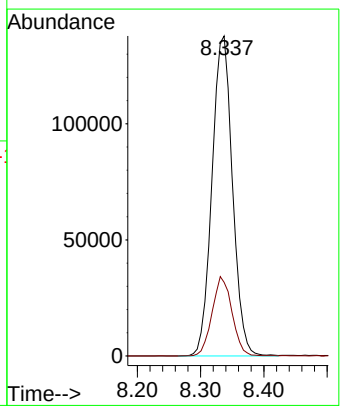
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

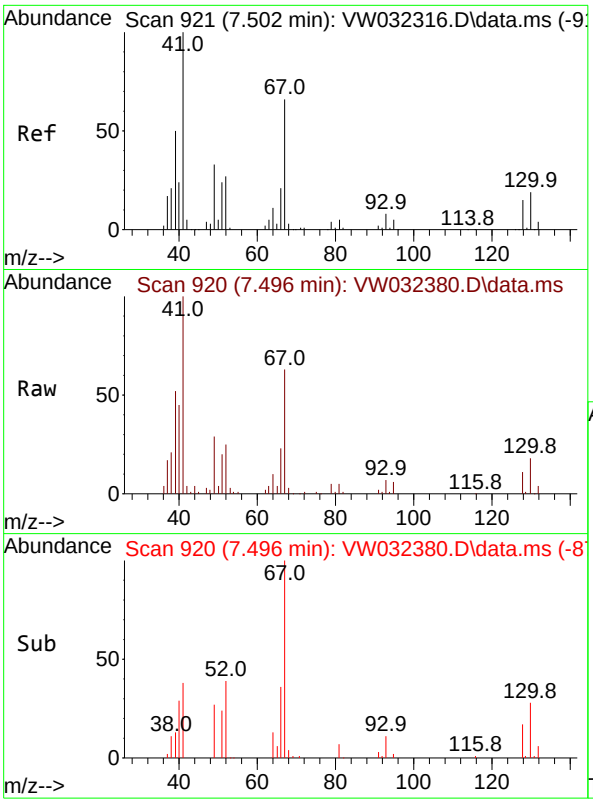


#40
Benzene
Concen: 20.901 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 78 Resp: 309652

Ion	Ratio	Lower	Upper
78	100		
77	23.0	20.7	31.1

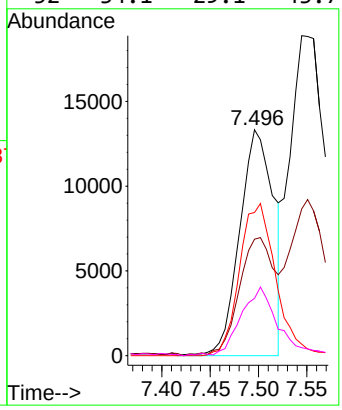




#41
Methacrylonitrile
Concen: 19.180 ug/l
RT: 7.496 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

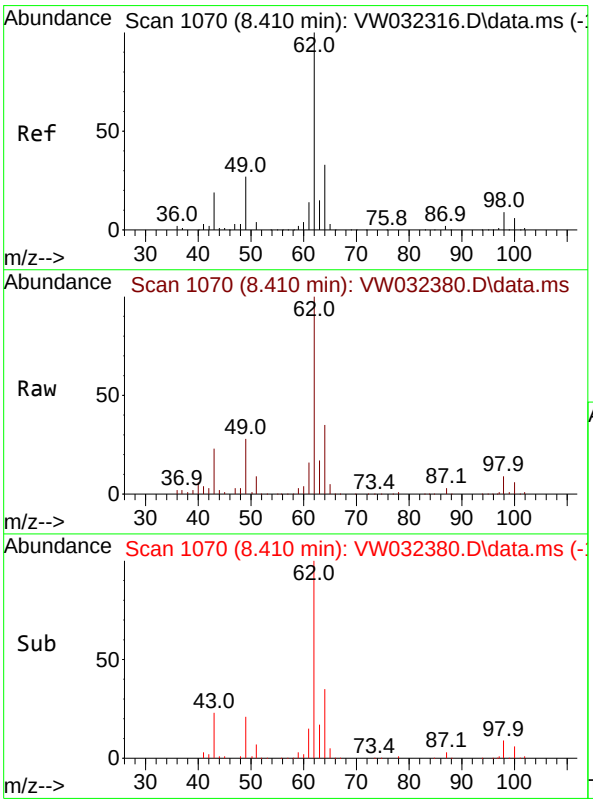
Tgt Ion: 41 Resp: 3251

Ion	Ratio	Lower	Upper
41	100		
39	54.4	50.9	76.3
67	72.8	65.6	98.4
52	34.1	29.1	43.7



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

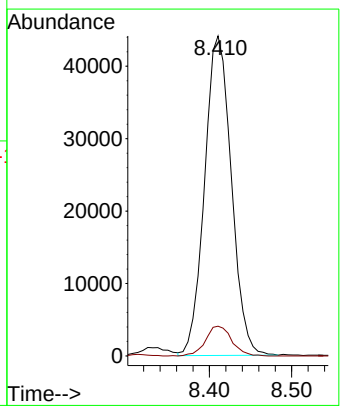
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

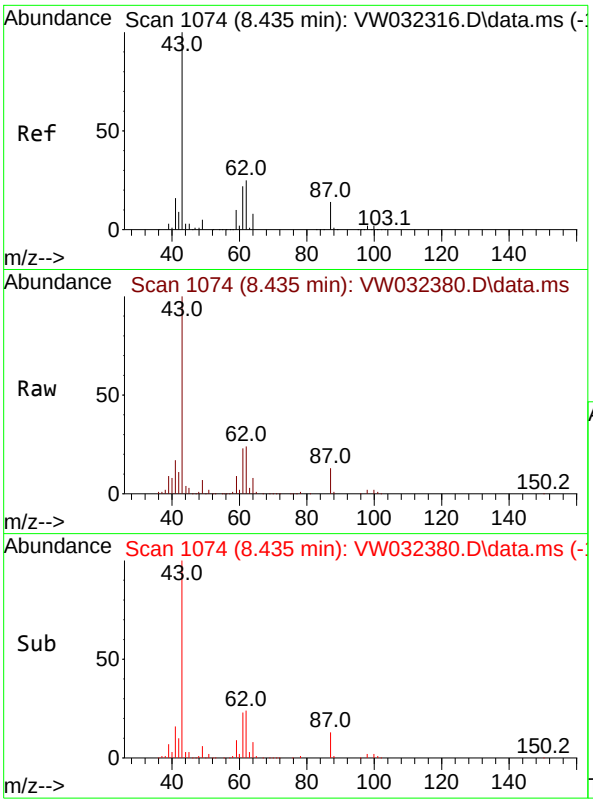


#42
1,2-Dichloroethane
Concen: 20.591 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 62 Resp: 99820

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.0

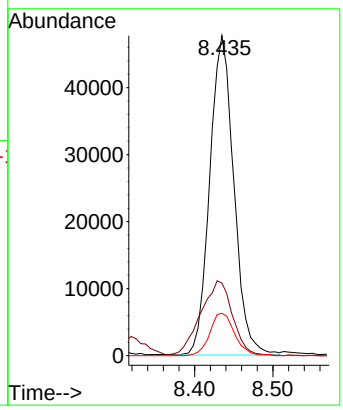




#43
Isopropyl Acetate
Concen: 18.271 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 43 Resp: 10196

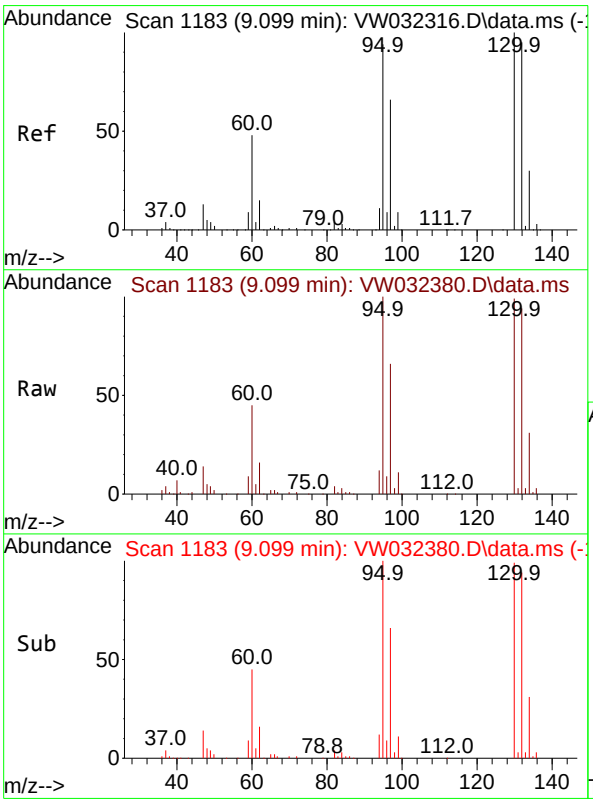
Ion	Ratio	Lower	Upper
43	100		
61	31.0	23.3	34.9
87	13.7	11.1	16.7



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

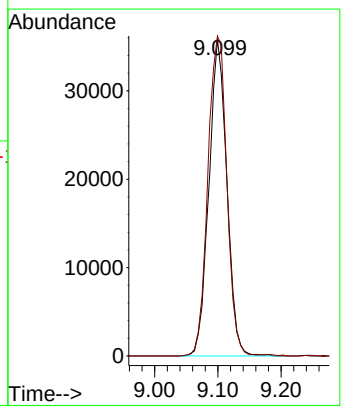
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

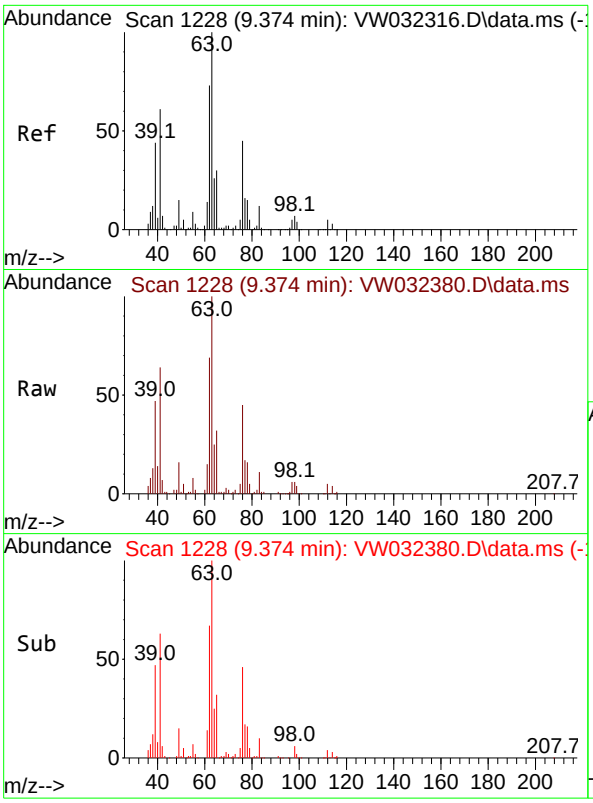


#44
Trichloroethene
Concen: 20.348 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:130 Resp: 70587

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	220.0

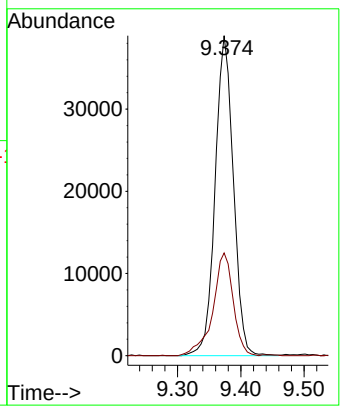




#45
1,2-Dichloropropane
Concen: 21.021 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 63 Resp: 7773

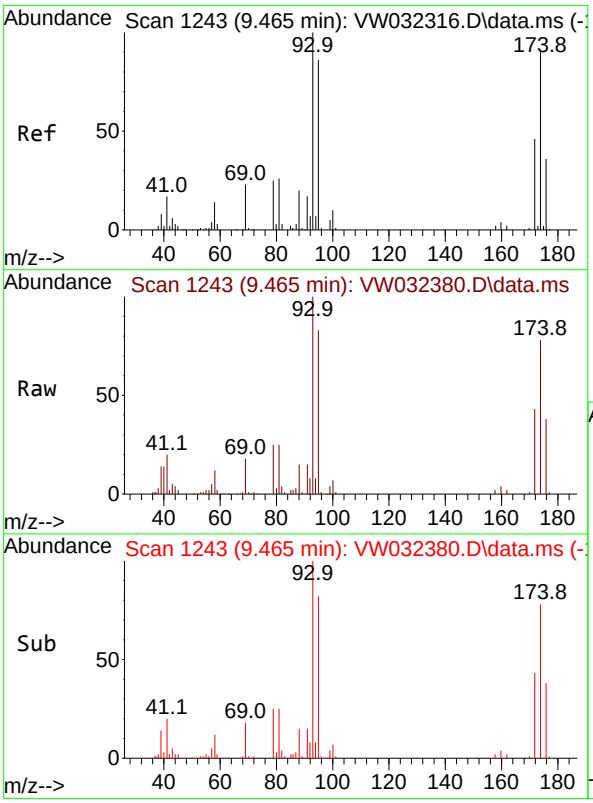
Ion	Ratio	Lower	Upper
63	100		
65	32.1	24.3	36.5



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

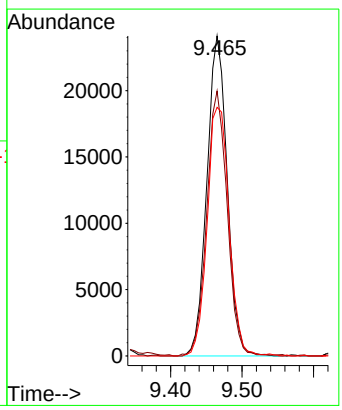
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

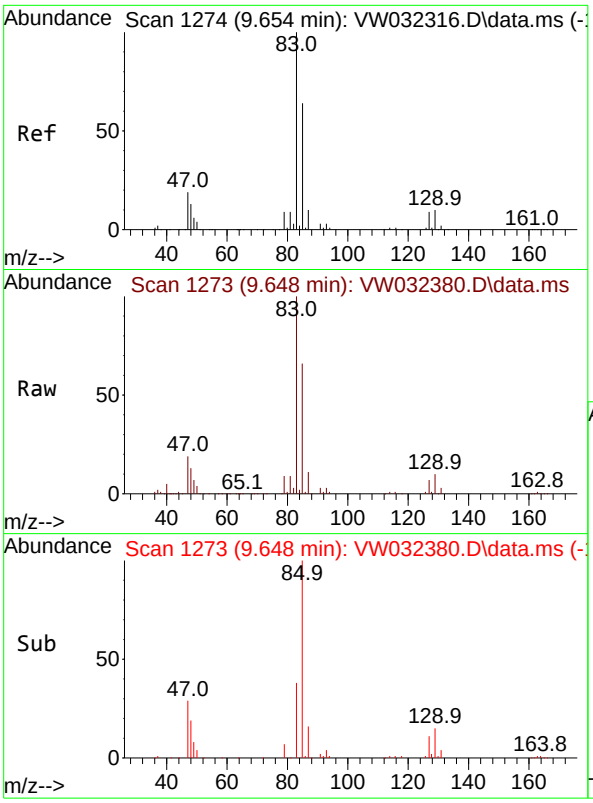


#46
Dibromomethane
Concen: 20.980 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 93 Resp: 47706

Ion	Ratio	Lower	Upper
93	100		
95	83.2	67.4	101.2
174	83.7	75.7	113.5

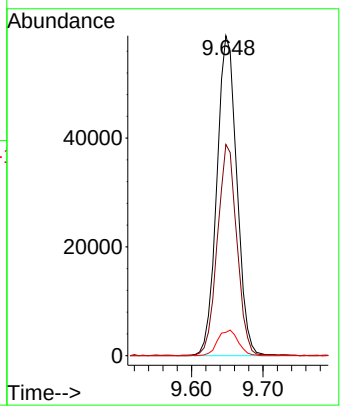




#47
Bromodichloromethane
Concen: 21.975 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 83 Resp: 11429

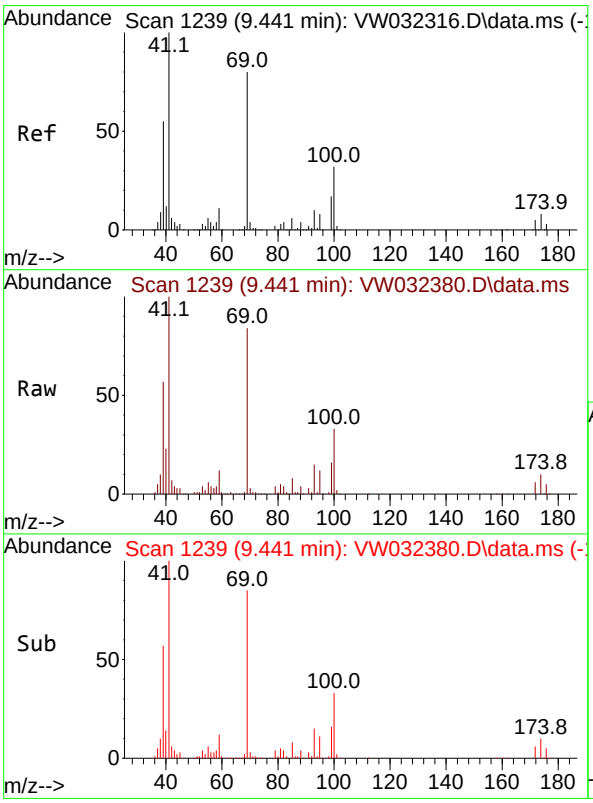
Ion	Ratio	Lower	Upper
83	100		
85	66.0	48.7	73.1
127	7.3	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

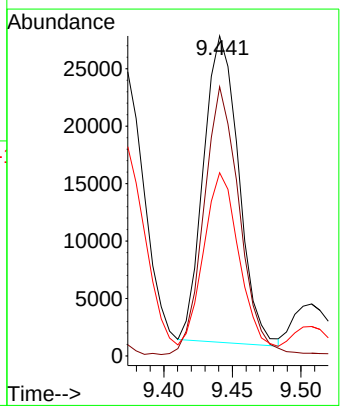
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

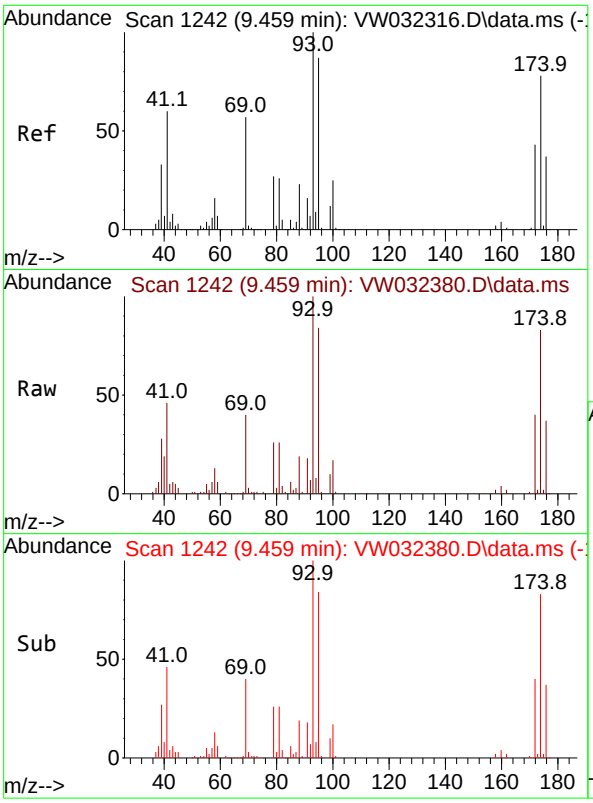


#48
Methyl methacrylate
Concen: 17.496 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 41 Resp: 47476

Ion	Ratio	Lower	Upper
41	100		
69	89.6	71.5	107.3
39	56.8	55.9	83.9

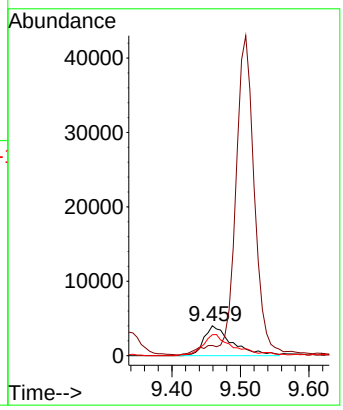




#49
1,4-Dioxane
Concen: 368.334 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 88 Resp: 1144

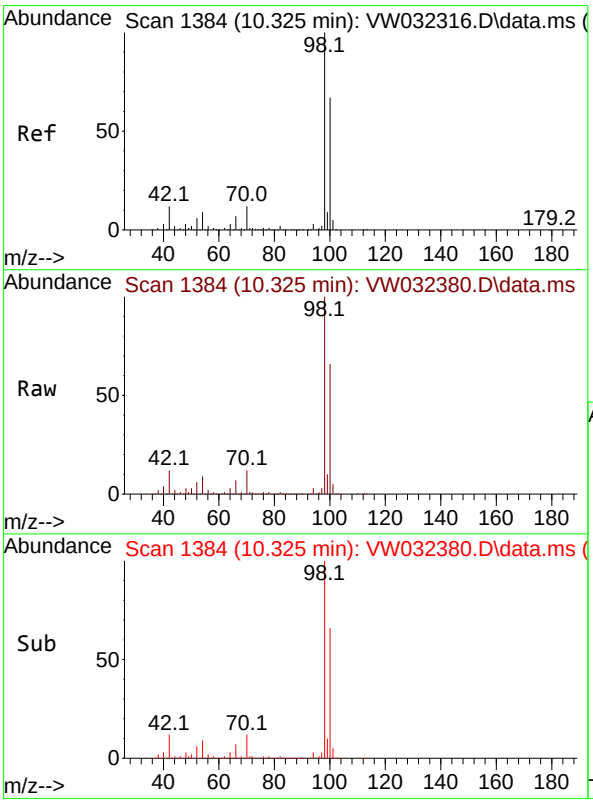
Ion	Ratio	Lower	Upper
88	100		
43	0.0	18.0	27.0#
58	73.2	55.4	83.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

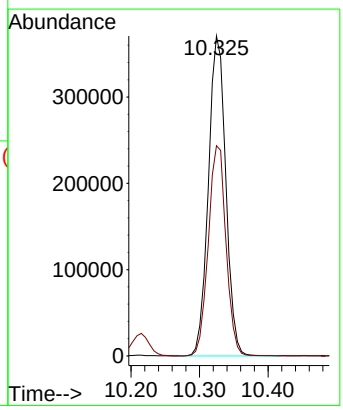
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

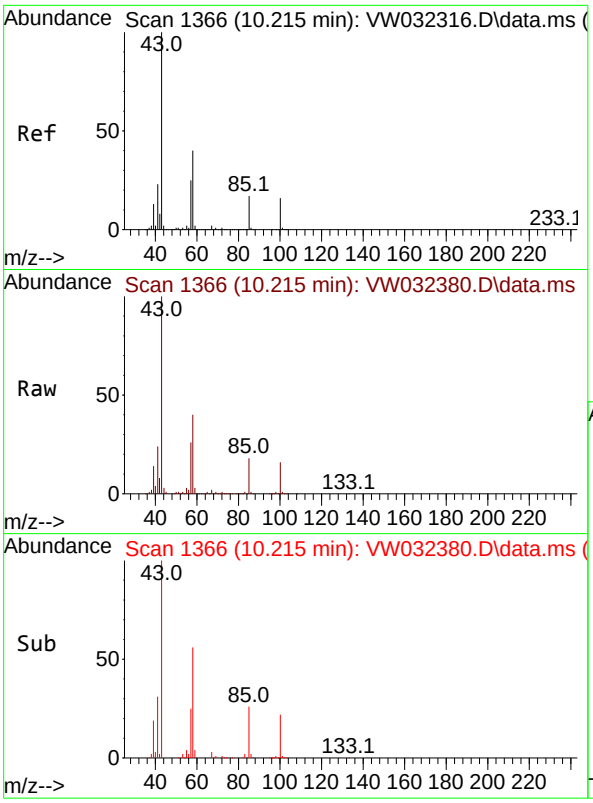


#50
Toluene-d8
Concen: 53.025 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 98 Resp: 655431

Ion	Ratio	Lower	Upper
98	100		
100	66.7	51.4	77.2

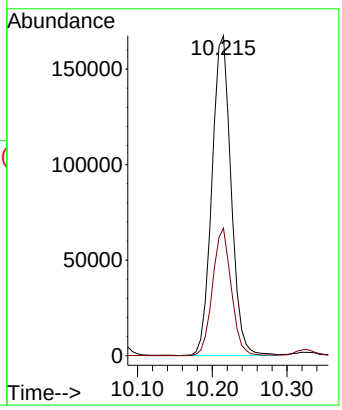




#51
4-Methyl-2-Pentanone
Concen: 92.294 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 43 Resp: 29834

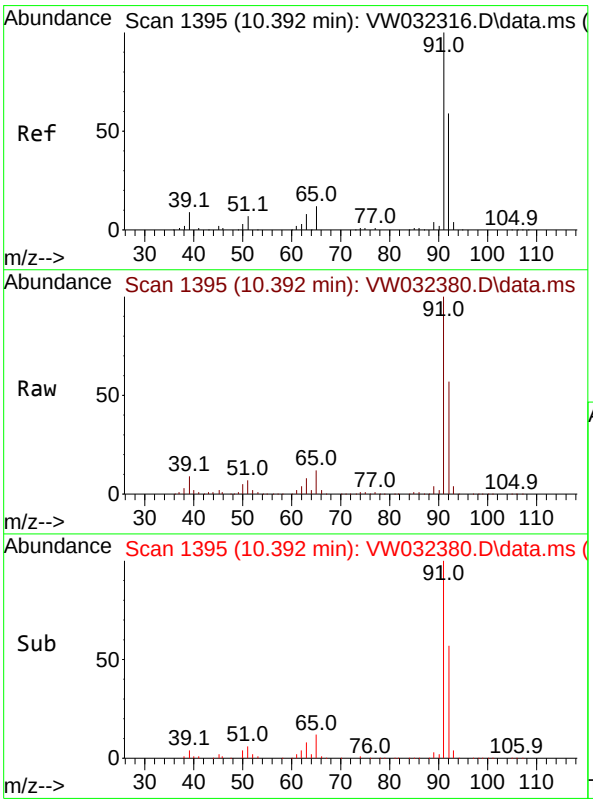
Ion	Ratio	Lower	Upper
43	100		
58	39.0	32.0	48.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

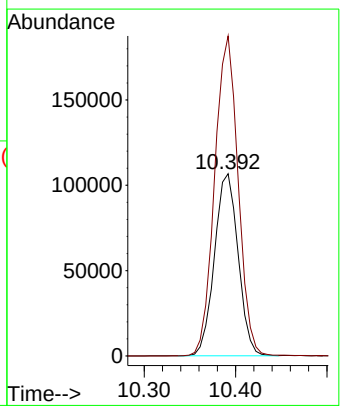
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

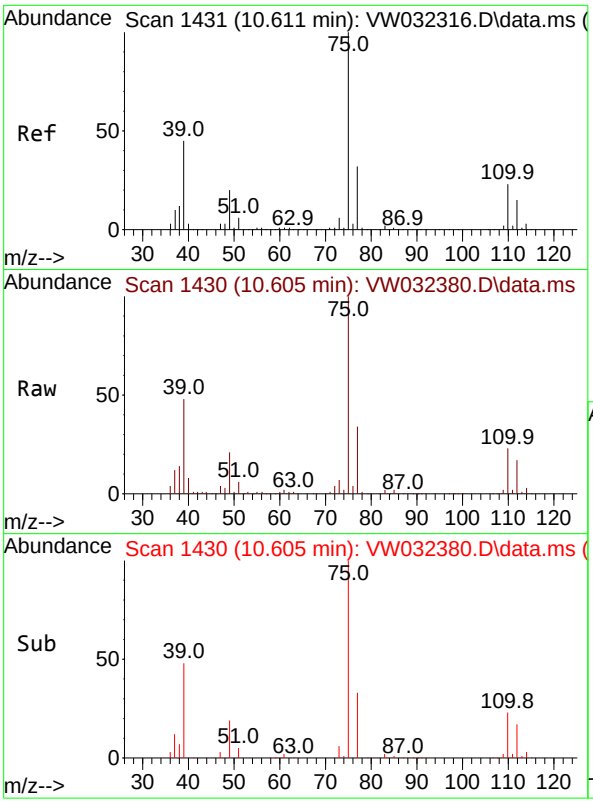


#52
Toluene
Concen: 20.790 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 92 Resp: 191814

Ion	Ratio	Lower	Upper
92	100		
91	174.9	137.5	206.3

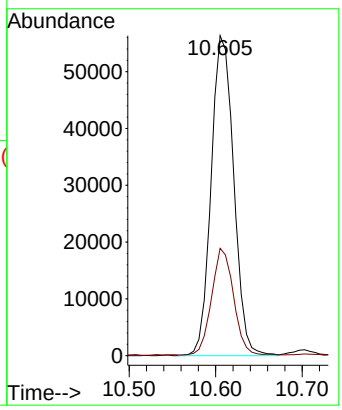




#53
t-1,3-Dichloropropene
Concen: 20.233 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 75 Resp: 10209

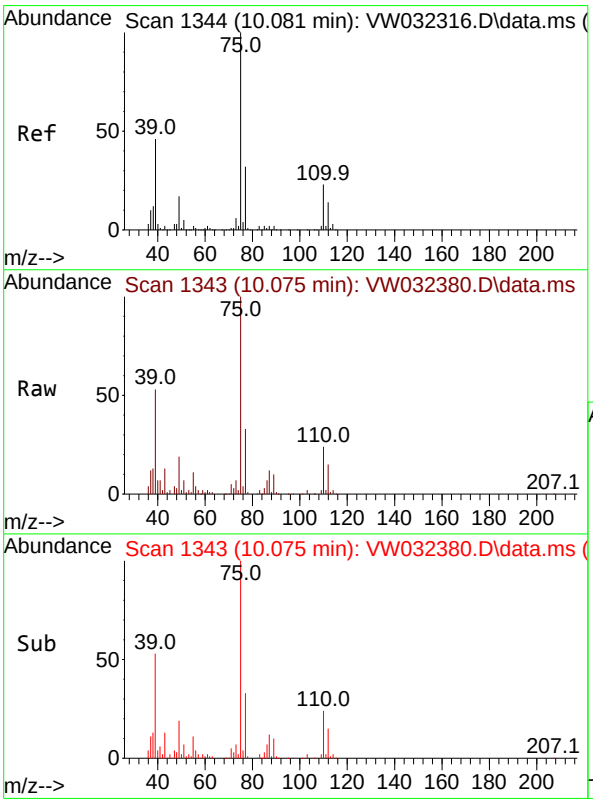
Ion	Ratio	Lower	Upper
75	100		
77	33.3	25.6	38.4



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

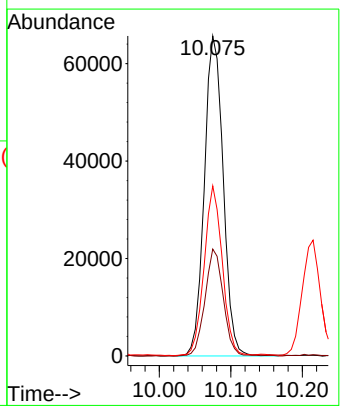
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

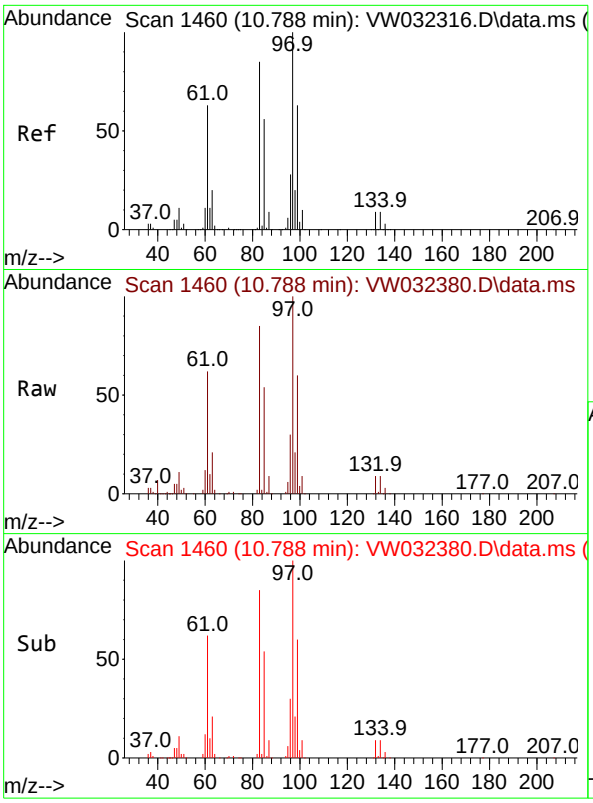


#54
cis-1,3-Dichloropropene
Concen: 20.705 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 75 Resp: 120341

Ion	Ratio	Lower	Upper
75	100		
77	33.4	25.1	37.7
39	53.0	43.2	64.8

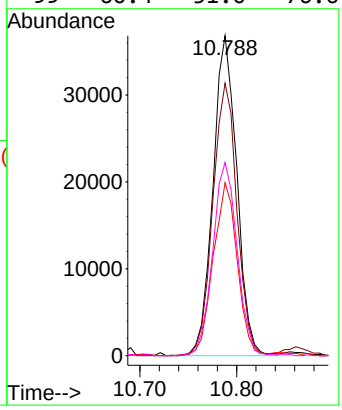




#55
1,1,2-Trichloroethane
Concen: 20.679 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

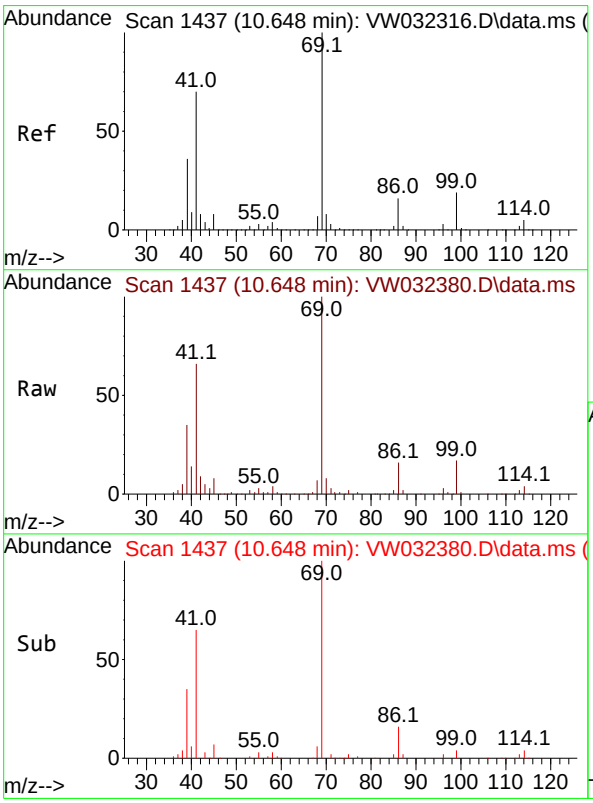
Tgt Ion: 97 Resp: 6284

Ion	Ratio	Lower	Upper
97	100		
83	85.0	71.0	106.6
85	54.1	42.8	64.2
99	60.4	51.0	76.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

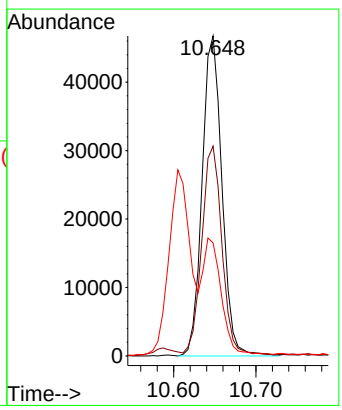
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

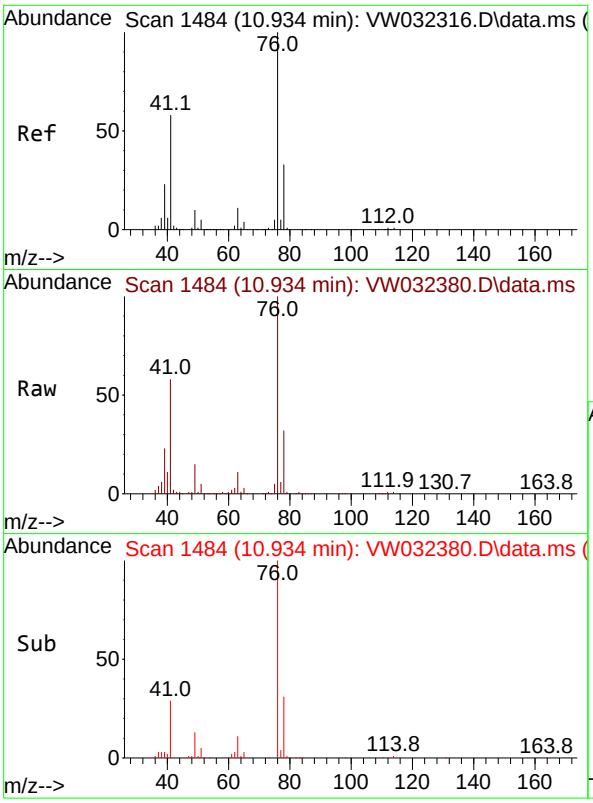


#56
Ethyl methacrylate
Concen: 18.412 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 69 Resp: 78320

Ion	Ratio	Lower	Upper
69	100		
41	66.4	53.2	79.8
39	33.6	32.9	49.3

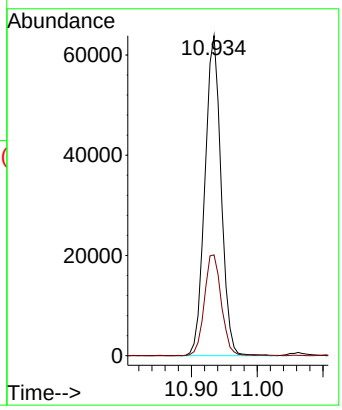




#57
1,3-Dichloropropane
Concen: 20.350 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

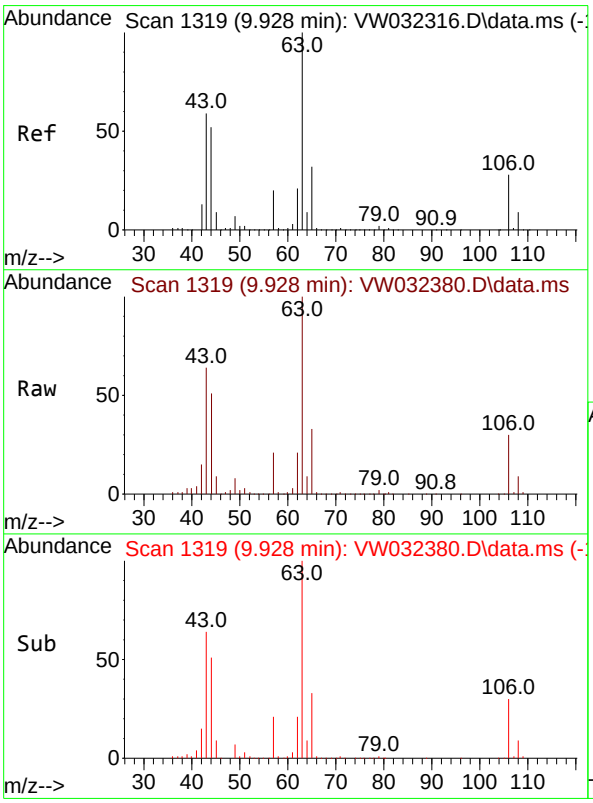
Tgt Ion: 76 Resp: 10923

Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.2	39.4



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

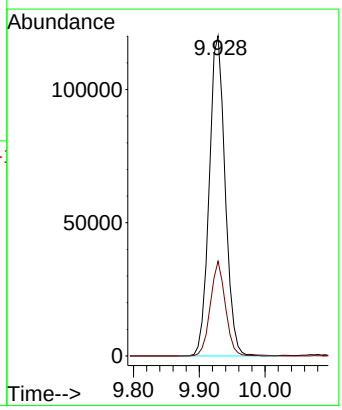
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

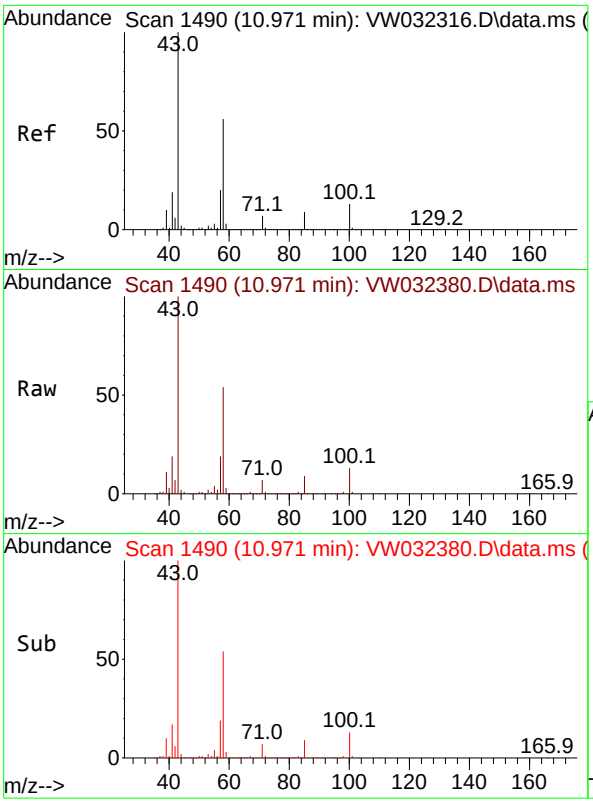


#58
2-Chloroethyl Vinyl ether
Concen: 89.381 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 63 Resp: 202349

Ion	Ratio	Lower	Upper
63	100		
106	27.9	24.3	36.5





#59
2-Hexanone
Concen: 92.843 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

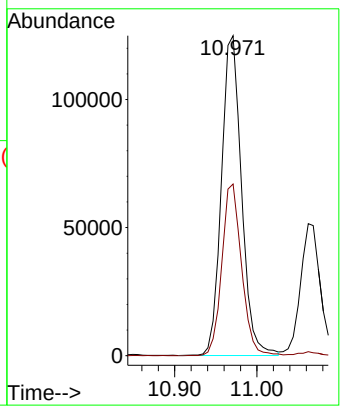
Tgt Ion: 43 Resp: 21167

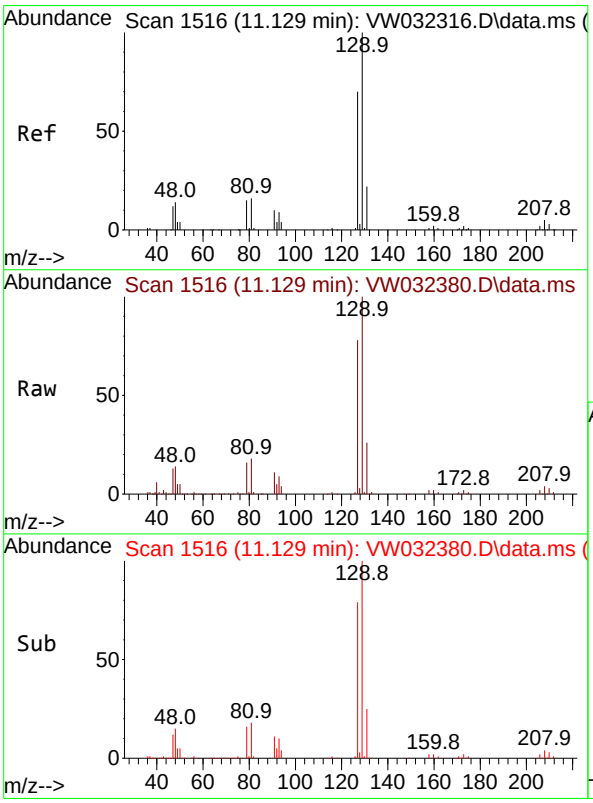
Ion	Ratio	Lower	Upper
43	100		
58	52.7	27.5	82.4

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

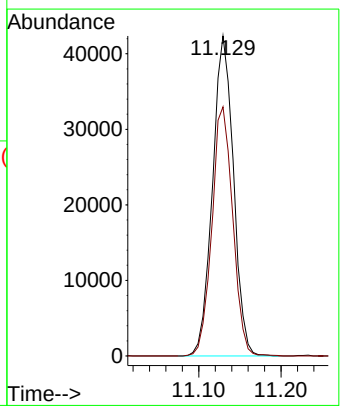


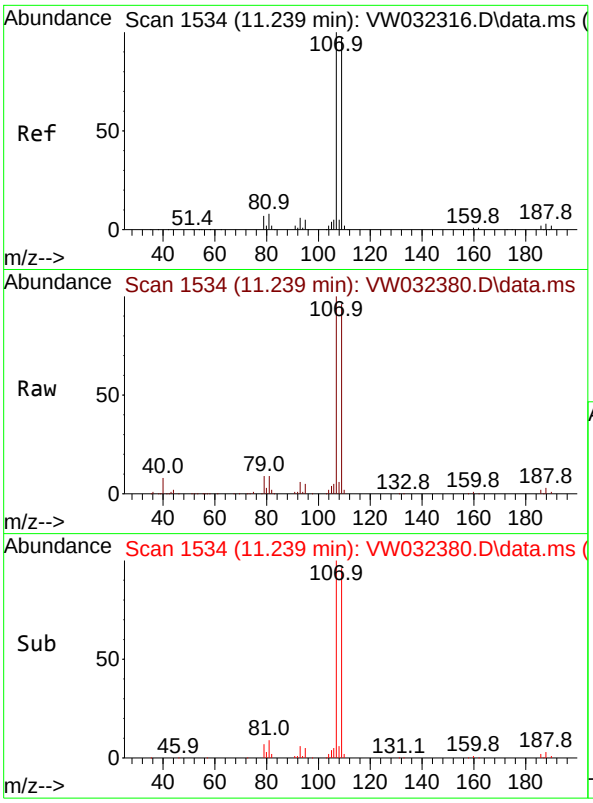


#60
Dibromochloromethane
Concen: 21.706 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:129 Resp: 74905

Ion	Ratio	Lower	Upper
129	100		
127	77.4	38.1	114.5

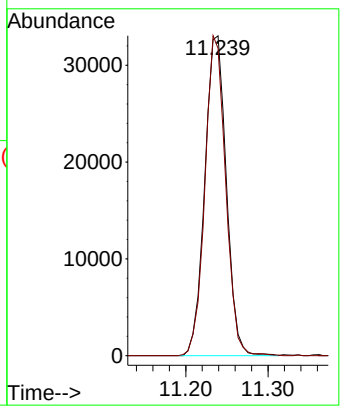




#61
1,2-Dibromoethane
Concen: 20.263 ug/l
RT: 11.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:107 Resp: 6004

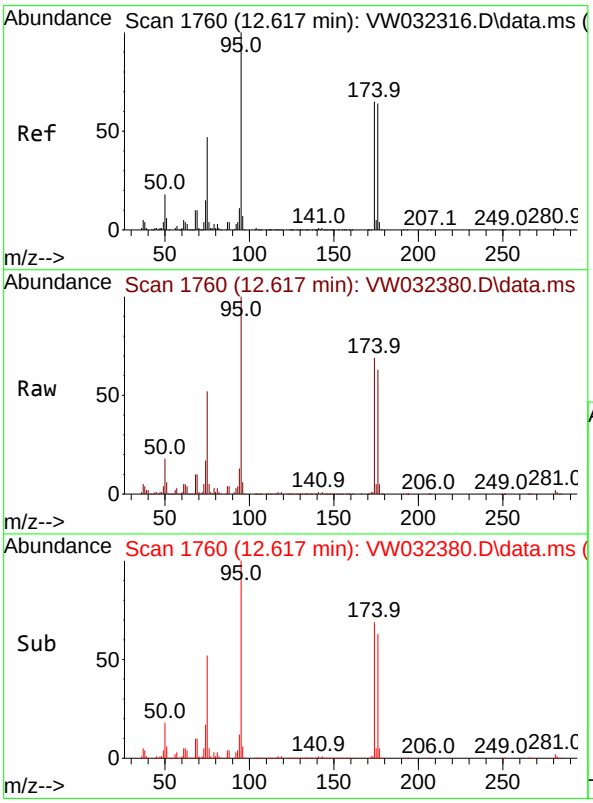
Ion	Ratio	Lower	Upper
107	100		
109	96.2	74.5	111.7



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

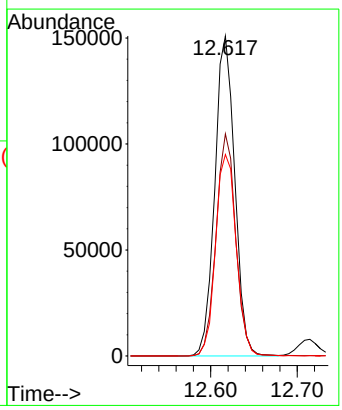
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

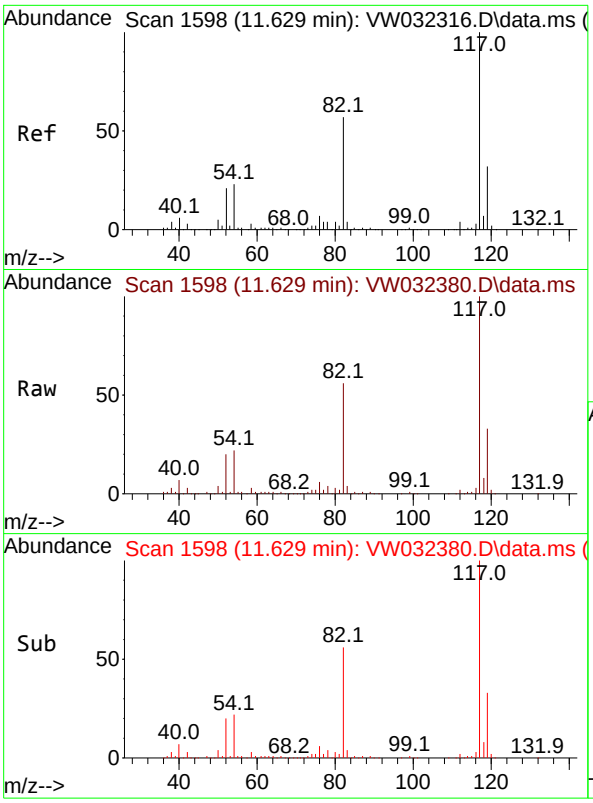


#62
4-Bromofluorobenzene
Concen: 51.667 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 95 Resp: 241390

Ion	Ratio	Lower	Upper
95	100		
174	68.3	0.0	145.6
176	65.4	0.0	140.8

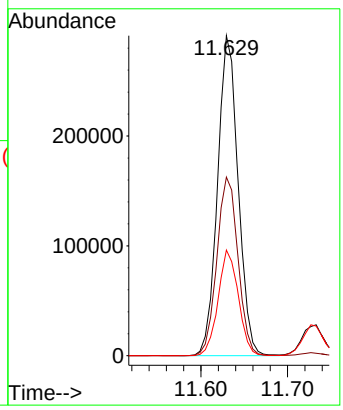




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:117 Resp: 48074

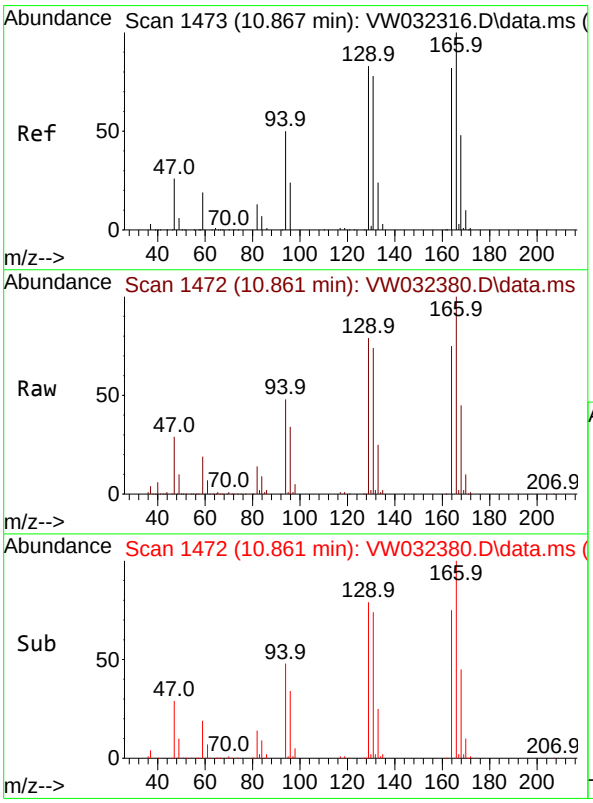
Ion	Ratio	Lower	Upper
117	100		
82	55.8	42.7	64.1
119	33.0	25.2	37.8



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

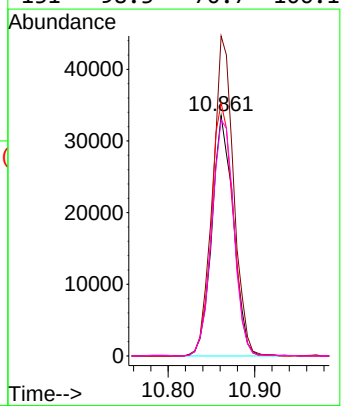
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

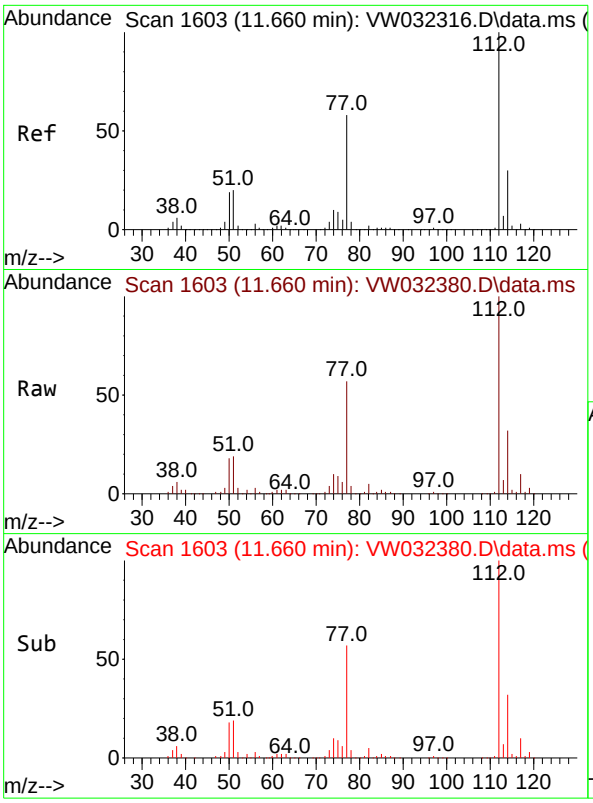


#64
Tetrachloroethene
Concen: 20.114 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:164 Resp: 57861

Ion	Ratio	Lower	Upper
164	100		
166	133.1	97.5	146.3
129	105.3	71.2	106.8
131	98.3	70.7	106.1

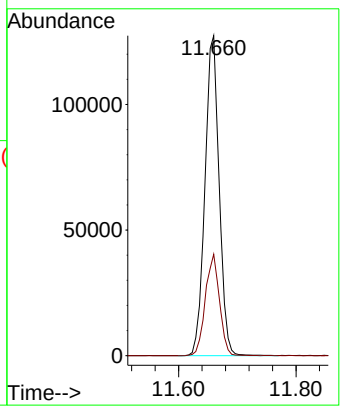




#65
Chlorobenzene
Concen: 20.202 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:112 Resp: 21368

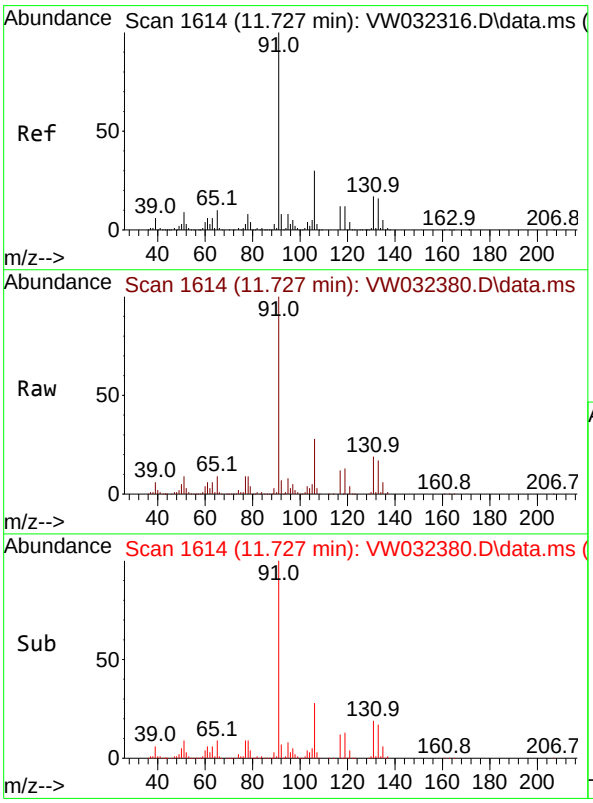
Ion	Ratio	Lower	Upper
112	100		
114	31.7	26.0	39.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

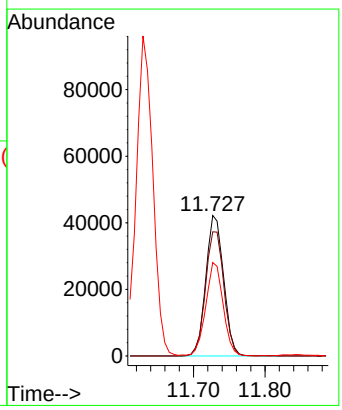
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

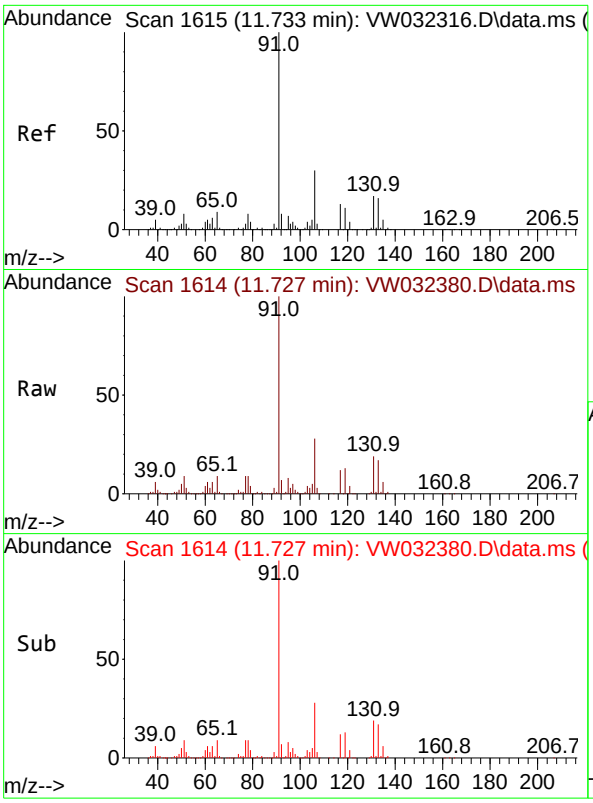


#66
1,1,1,2-Tetrachloroethane
Concen: 22.139 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:131 Resp: 72938

Ion	Ratio	Lower	Upper
131	100		
133	91.5	47.7	143.1
119	65.1	32.8	98.3

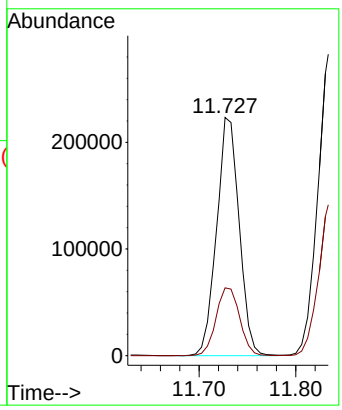




#67
Ethyl Benzene
Concen: 20.492 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 91 Resp: 36130

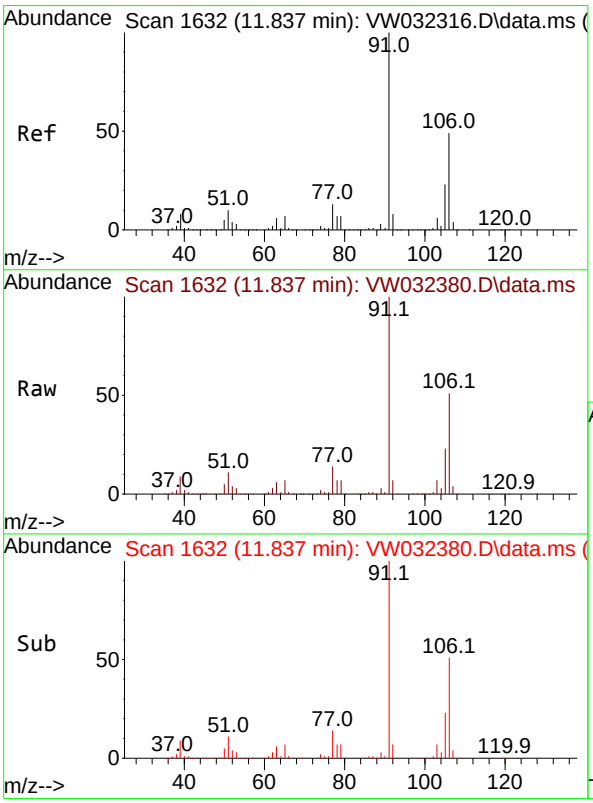
Ion	Ratio	Lower	Upper
91	100		
106	28.4	25.3	37.9



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

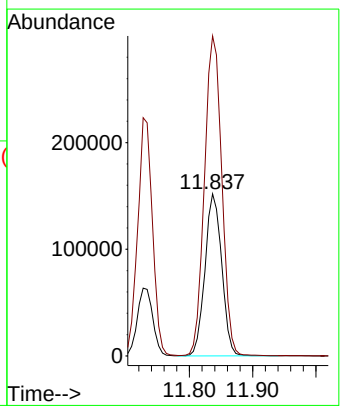
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

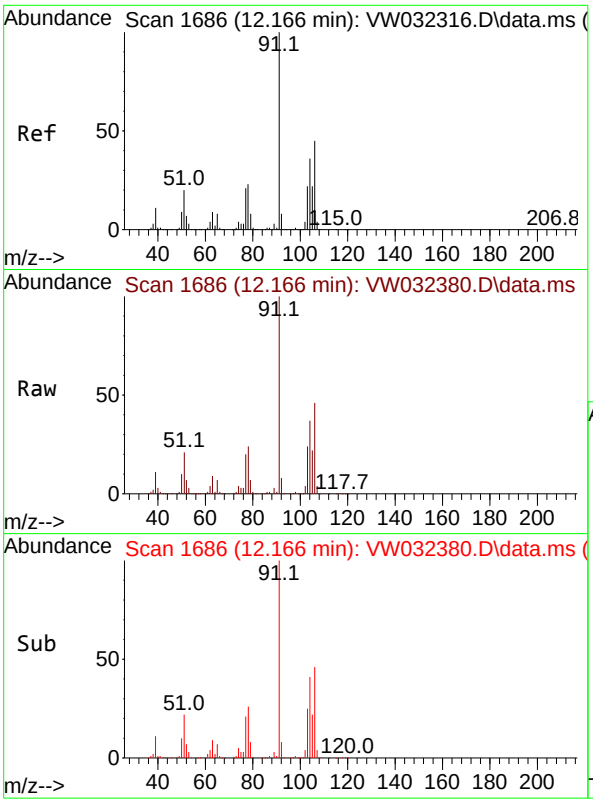


#68
m/p-Xylenes
Concen: 41.170 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:106 Resp: 279914

Ion	Ratio	Lower	Upper
106	100		
91	204.5	164.2	246.2





#69
o-Xylene
Concen: 19.771 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

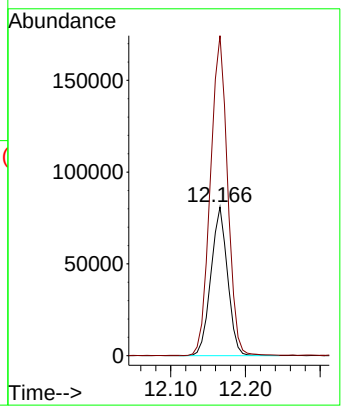
Tgt Ion:106 Resp: 12570

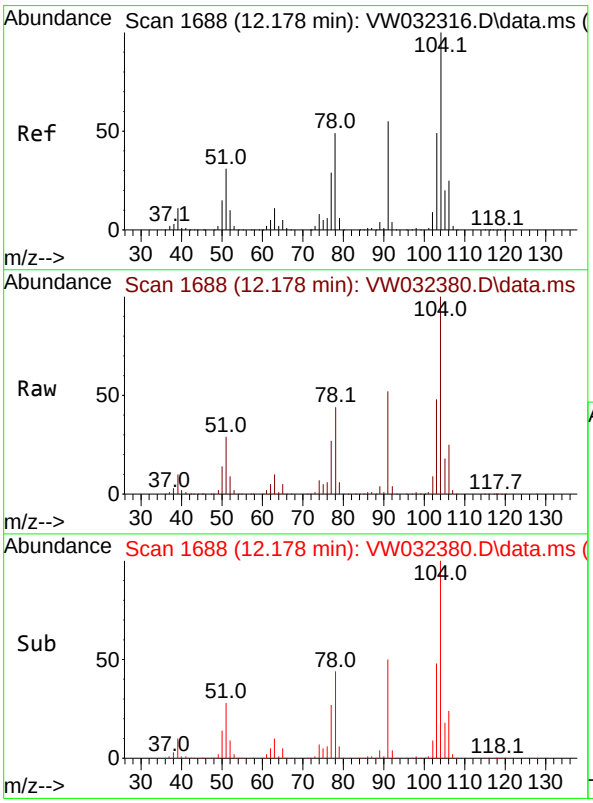
Ion	Ratio	Lower	Upper
106	100		
91	221.9	108.7	326.3

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

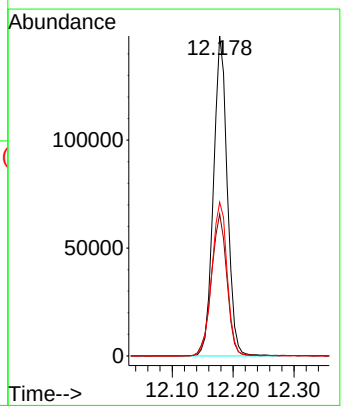


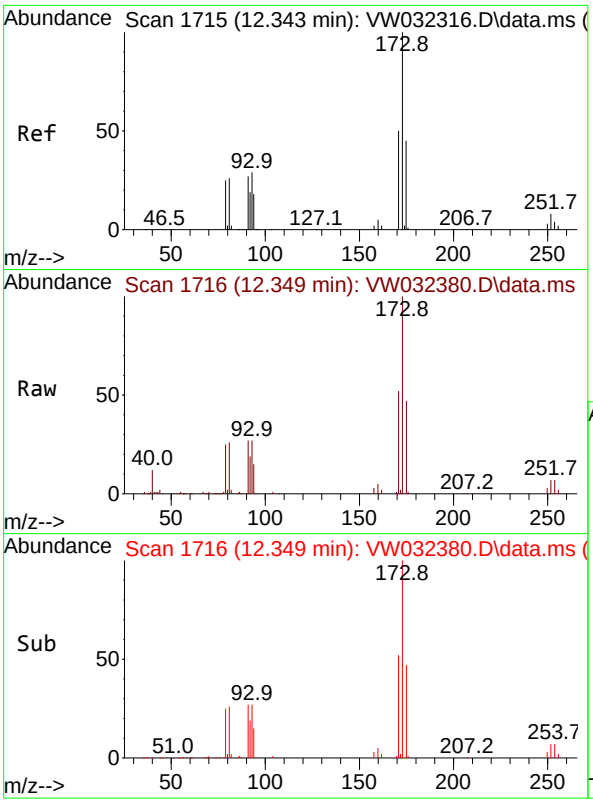


#70
Styrene
Concen: 21.071 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:104 Resp: 233906

Ion	Ratio	Lower	Upper
104	100		
78	49.7	41.6	62.4
103	53.5	44.8	67.2

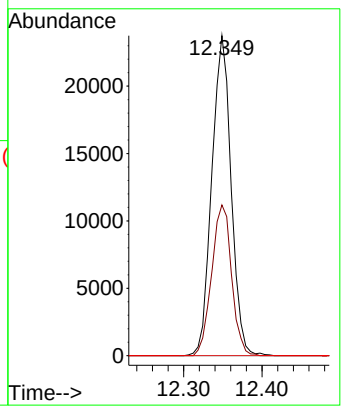




#71
Bromoform
Concen: 21.516 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:173 Resp: 4063

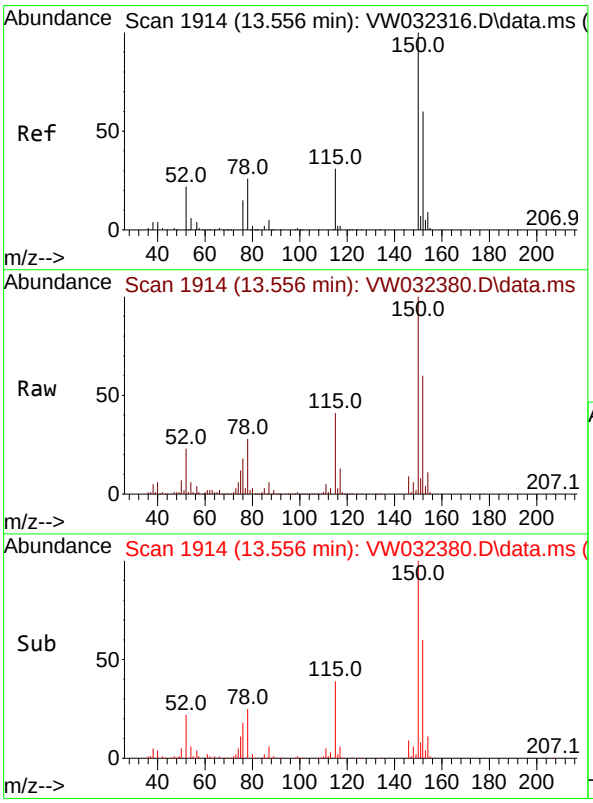
Ion	Ratio	Lower	Upper
173	100		
175	48.5	24.9	74.7
254	0.0	0.2	0.2



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

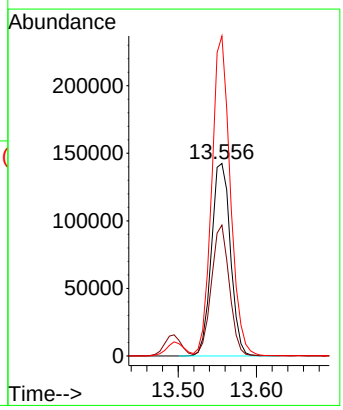
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

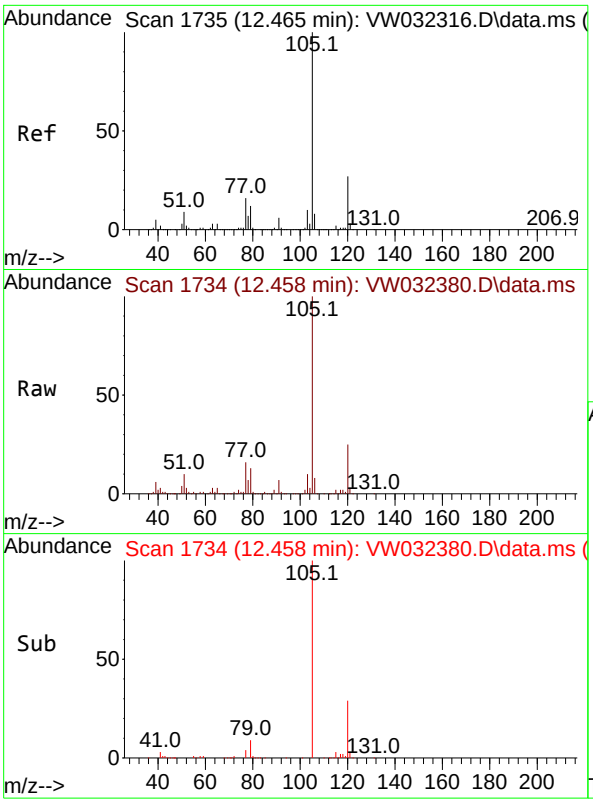


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:152 Resp: 240746

Ion	Ratio	Lower	Upper
152	100		
115	63.8	31.8	95.4
150	161.5	0.0	343.0

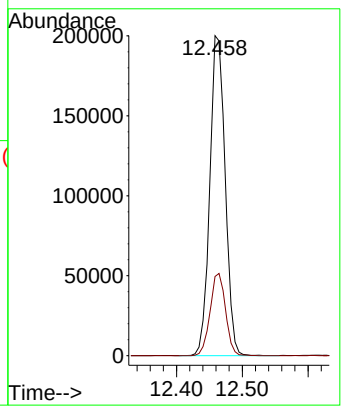




#73
Isopropylbenzene
Concen: 19.799 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:105 Resp: 32610

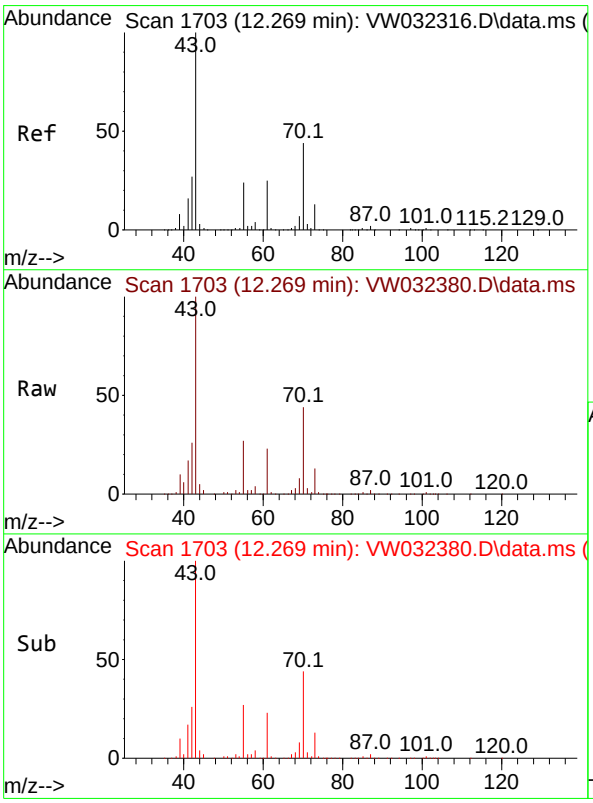
Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.0	38.9



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

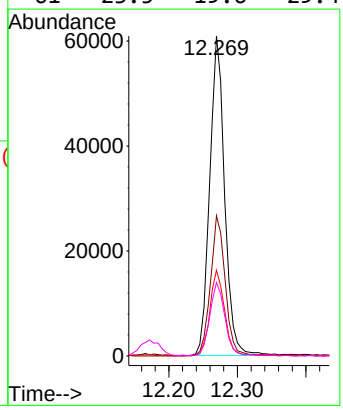
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

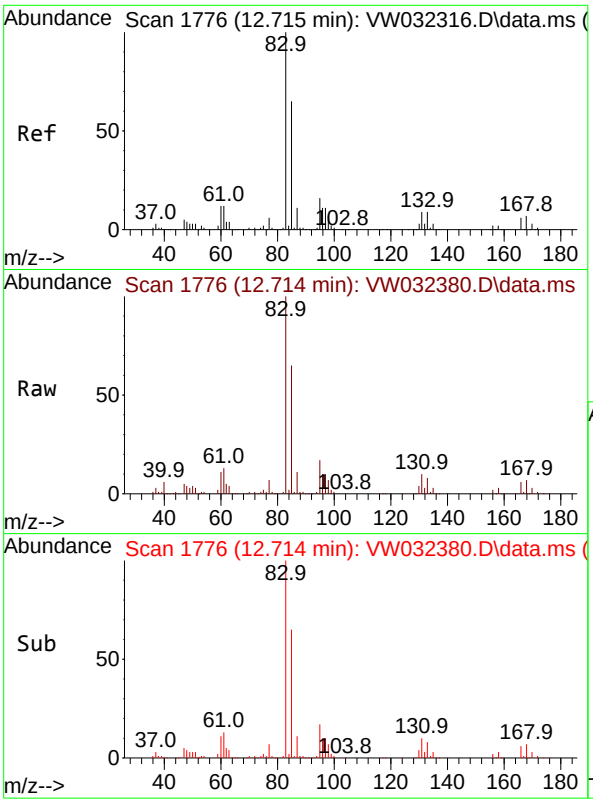


#74
N-amyl acetate
Concen: 17.605 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 43 Resp: 92502

Ion	Ratio	Lower	Upper
43	100		
70	43.3	35.3	52.9
55	26.7	19.9	29.9
61	23.5	19.6	29.4

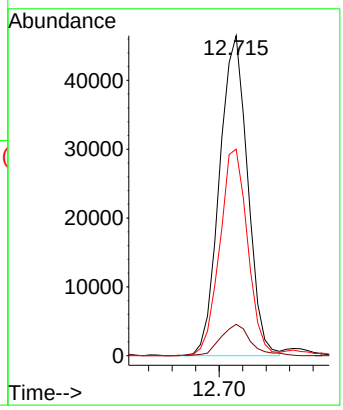




#75
1,1,2,2-Tetrachloroethane
Concen: 18.908 ug/l
RT: 12.714 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 83 Resp: 7732

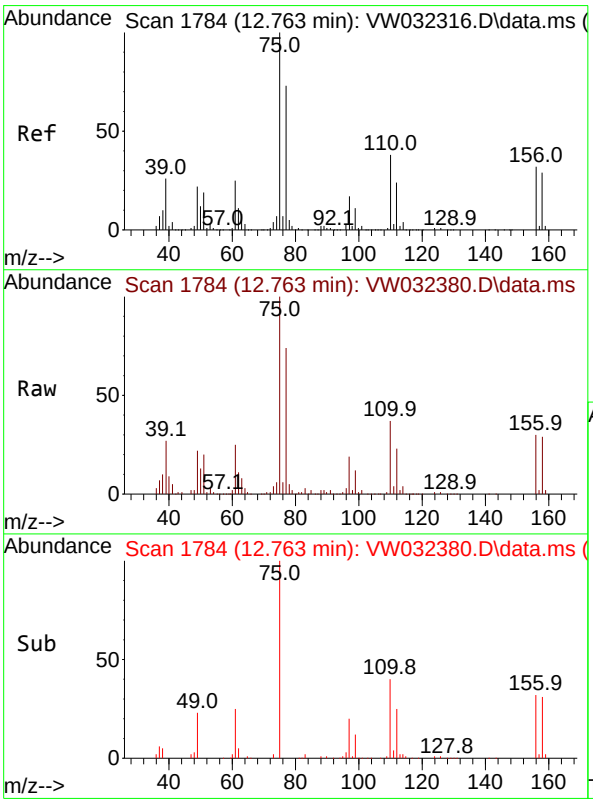
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.1	15.4
85	64.1	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

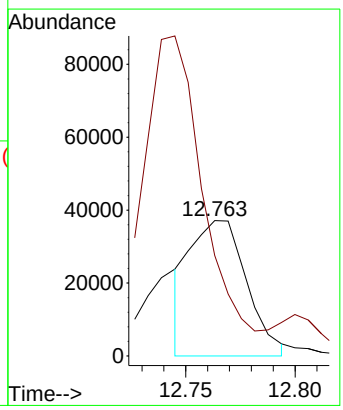
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

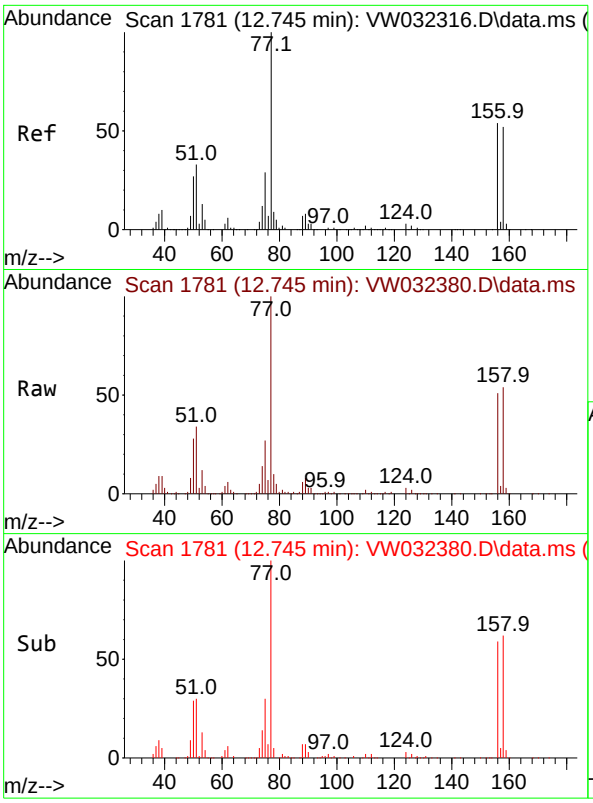


#76
1,2,3-Trichloropropane
Concen: 21.249 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 75 Resp: 67320

Ion	Ratio	Lower	Upper
75	100		
77	252.4	141.7	425.1

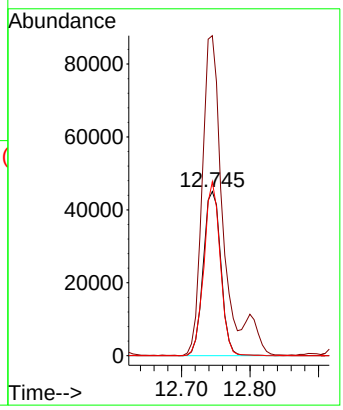




#77
Bromobenzene
Concen: 20.216 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:156 Resp: 8026

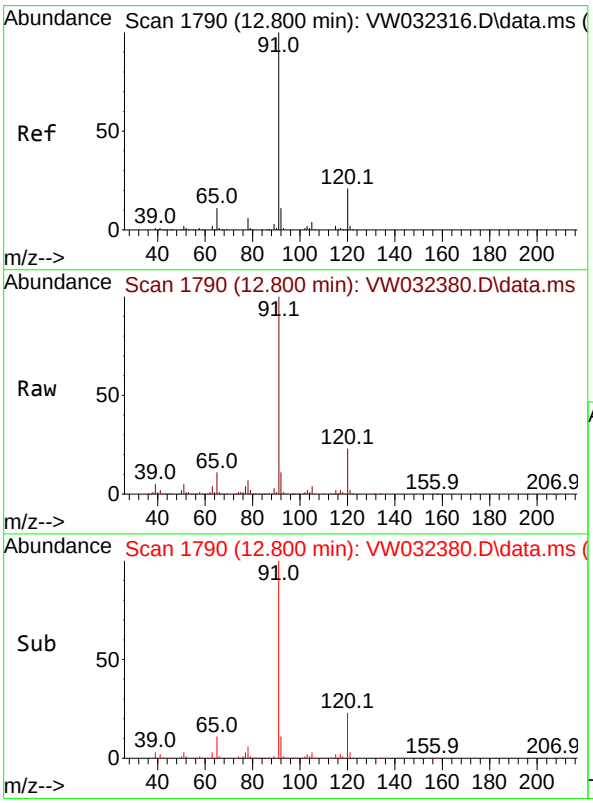
Ion	Ratio	Lower	Upper
156	100		
77	211.7	98.6	295.7
158	98.4	48.4	145.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

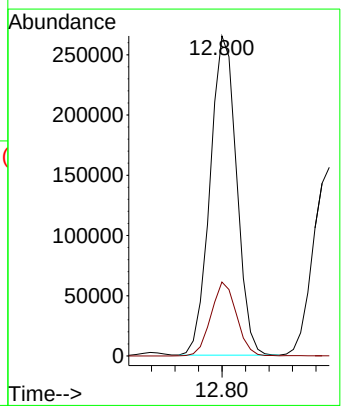
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

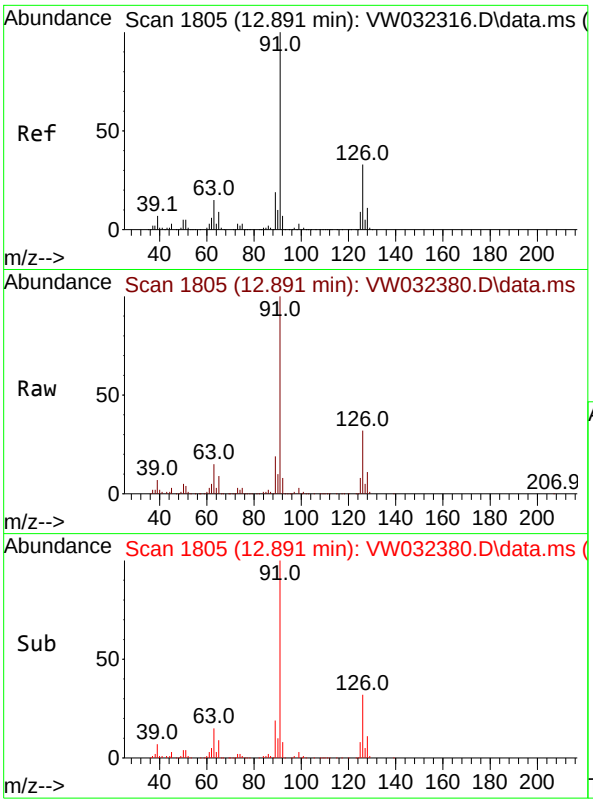


#78
n-propylbenzene
Concen: 20.190 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 91 Resp: 415401

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.8	35.4

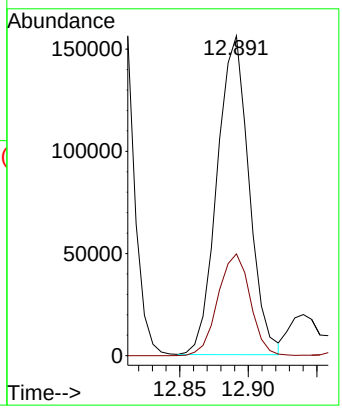




#79
2-Chlorotoluene
Concen: 20.091 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 91 Resp: 25273

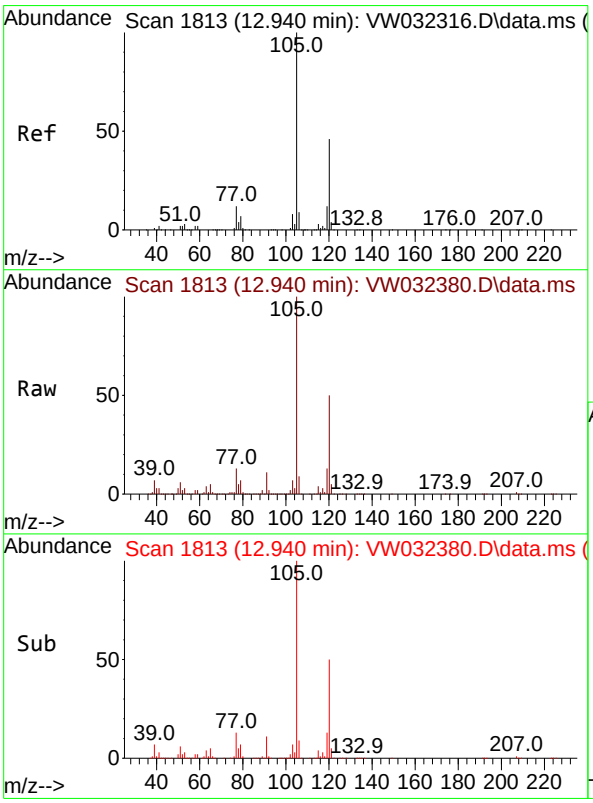
Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.6	49.7



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

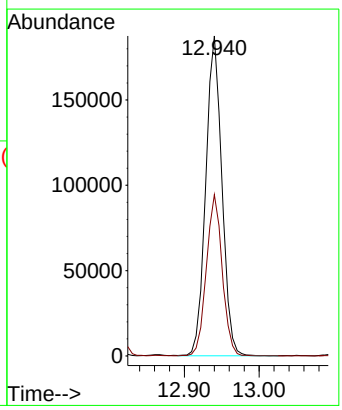
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

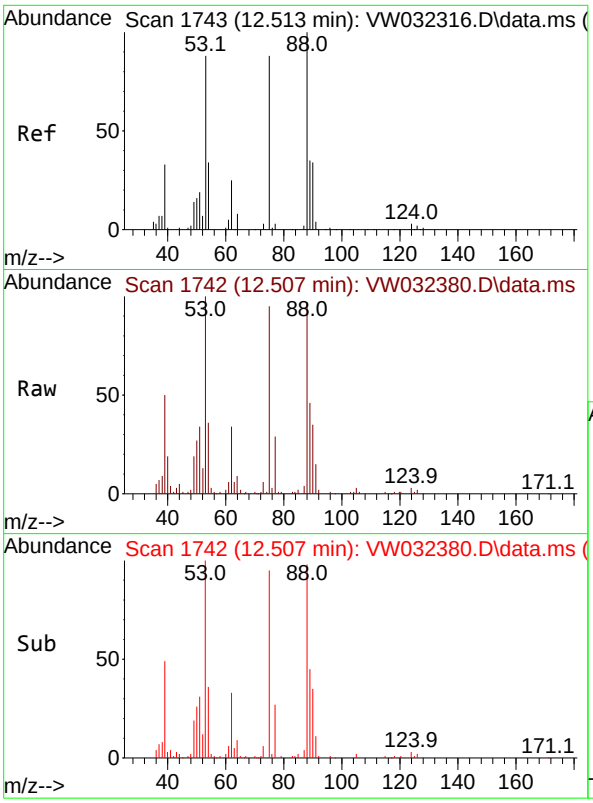


#80
1,3,5-Trimethylbenzene
Concen: 19.699 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:105 Resp: 280554

Ion	Ratio	Lower	Upper
105	100		
120	49.5	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 19.233 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

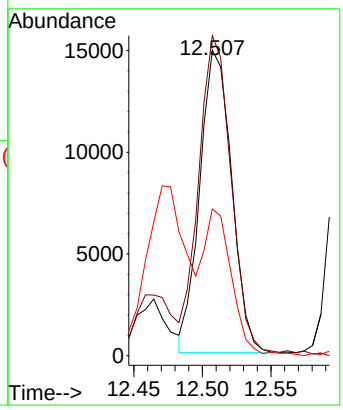
Tgt Ion: 75 Resp: 2405

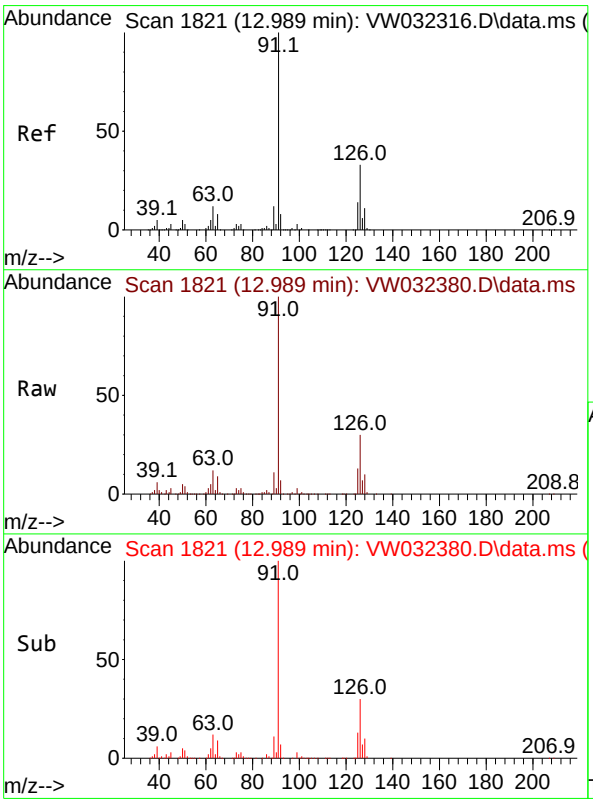
Ion	Ratio	Lower	Upper
75	100		
53	106.3	91.0	136.6
89	42.6	39.4	59.2

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

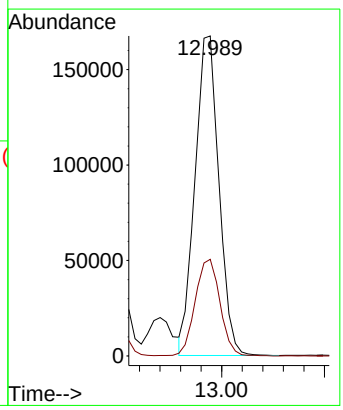


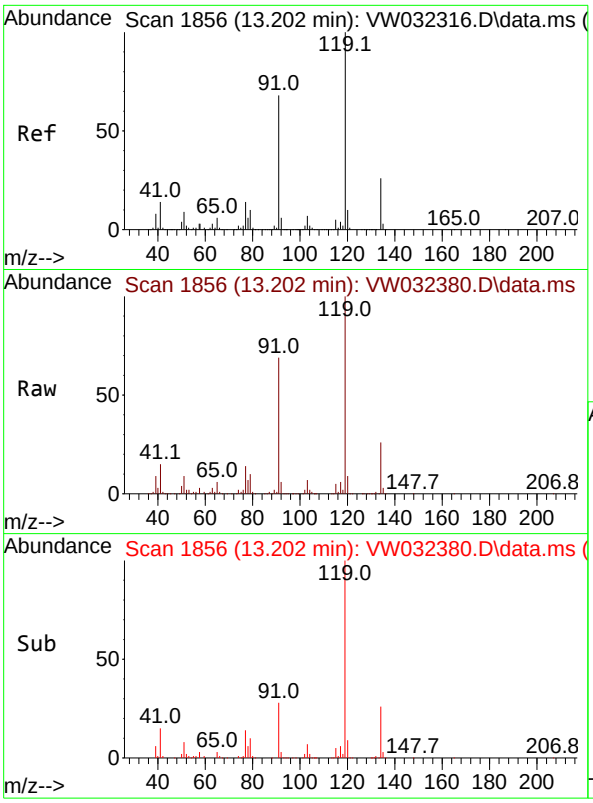


#82
4-Chlorotoluene
Concen: 20.239 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 91 Resp: 270686

Ion	Ratio	Lower	Upper
91	100		
126	31.4	16.1	48.2

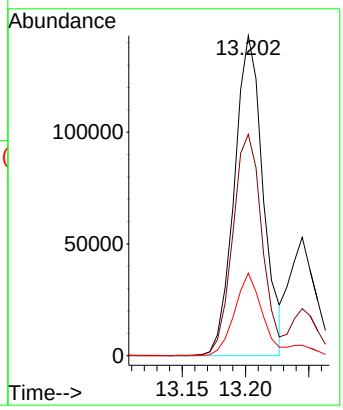




#83
tert-Butylbenzene
Concen: 19.400 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:119 Resp: 22670

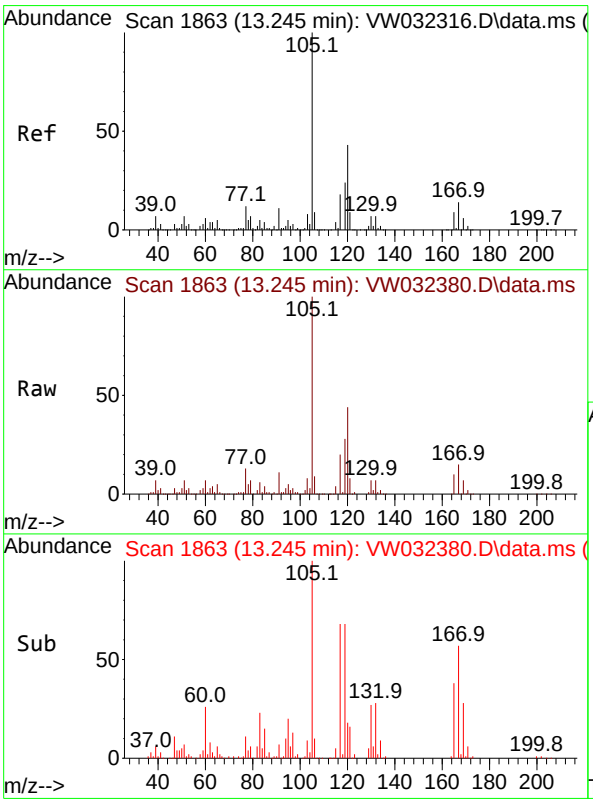
Ion	Ratio	Lower	Upper
119	100		
91	70.3	33.8	101.3
134	25.0	12.5	37.5



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

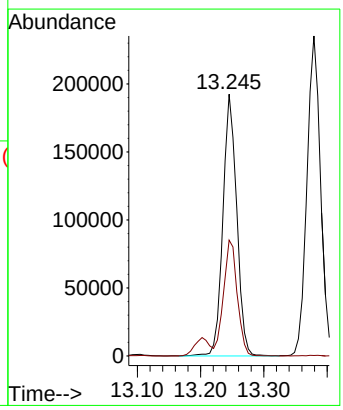
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

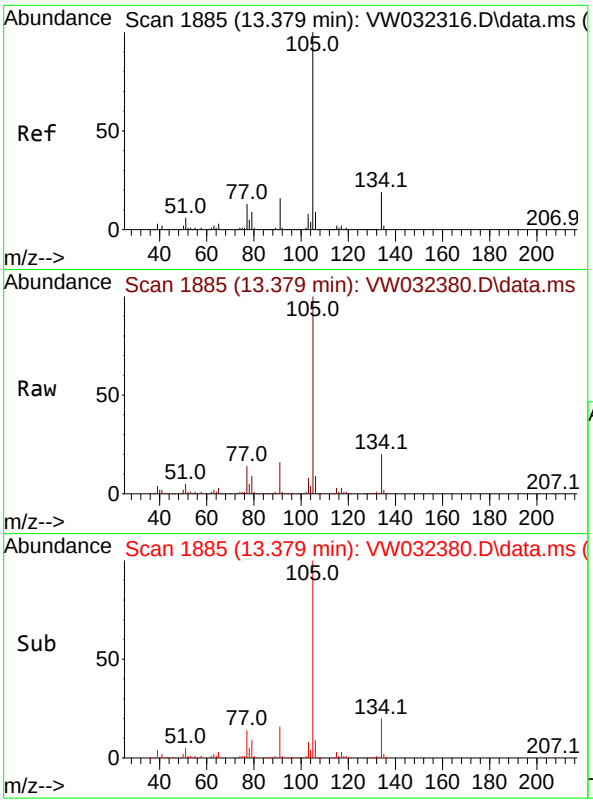


#84
1,2,4-Trimethylbenzene
Concen: 20.046 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:105 Resp: 290311

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.1	66.3





#85
sec-Butylbenzene
Concen: 19.609 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

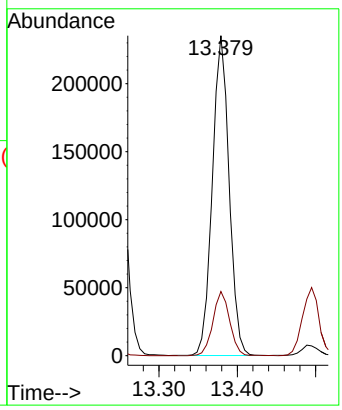
Tgt Ion:105 Resp: 35017

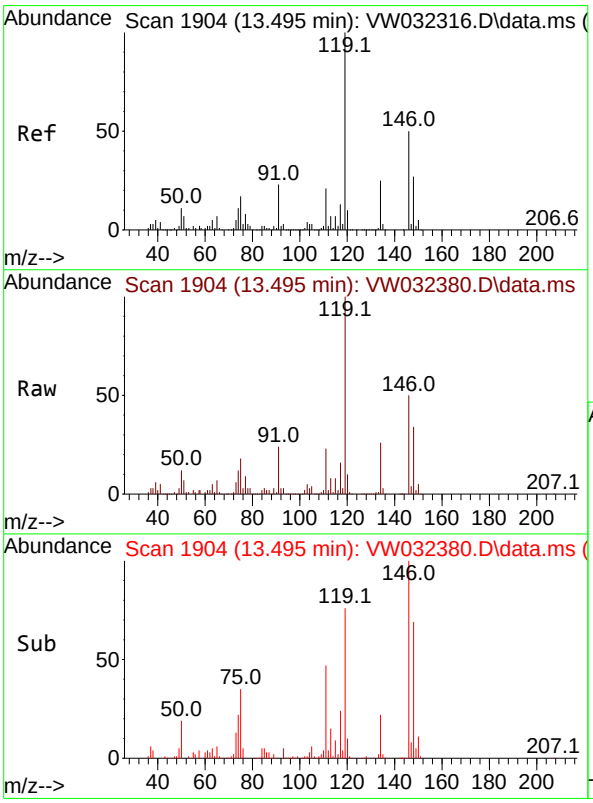
Ion	Ratio	Lower	Upper
105	100		
134	20.1	10.1	30.1

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

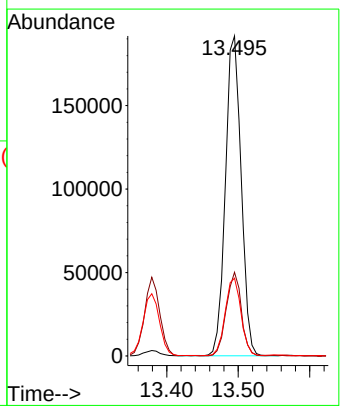


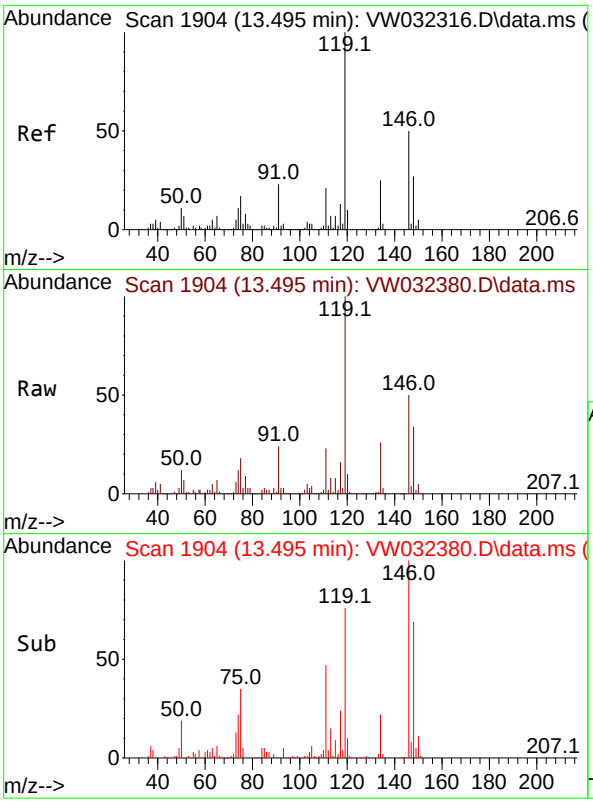


#86
p-Isopropyltoluene
Concen: 19.788 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:119 Resp: 293214

Ion	Ratio	Lower	Upper
119	100		
134	25.0	12.6	37.6
91	24.4	12.4	37.0

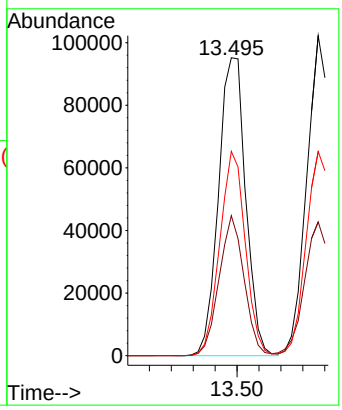




#87
1,3-Dichlorobenzene
Concen: 20.398 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

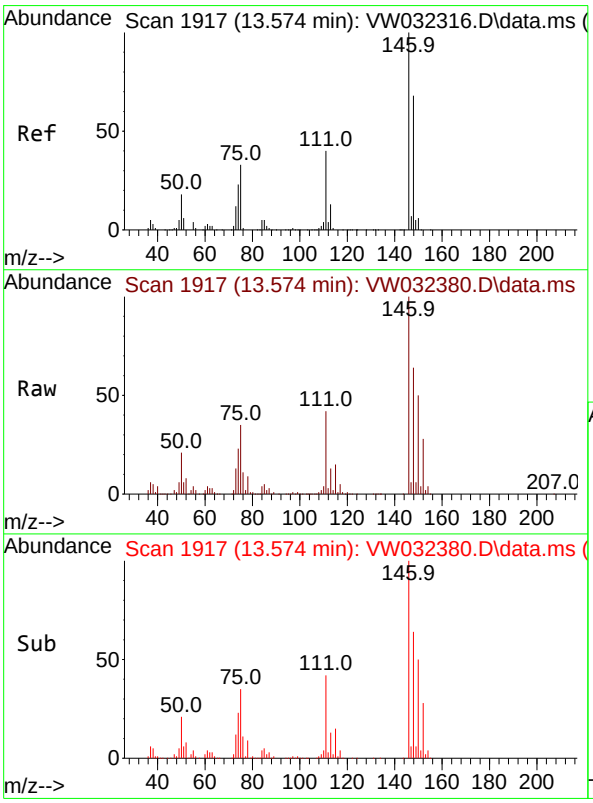
Tgt Ion:146 Resp: 16399

Ion	Ratio	Lower	Upper
146	100		
111	43.1	20.6	61.9
148	64.5	30.6	92.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

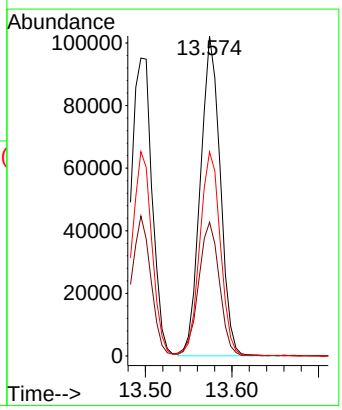
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

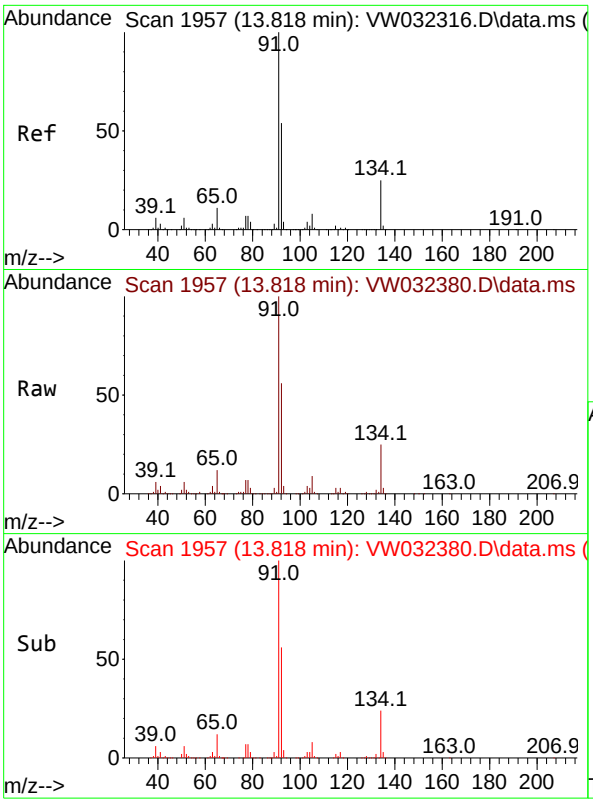


#88
1,4-Dichlorobenzene
Concen: 20.268 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:146 Resp: 162933

Ion	Ratio	Lower	Upper
146	100		
111	43.9	21.3	63.7
148	65.4	33.4	100.1

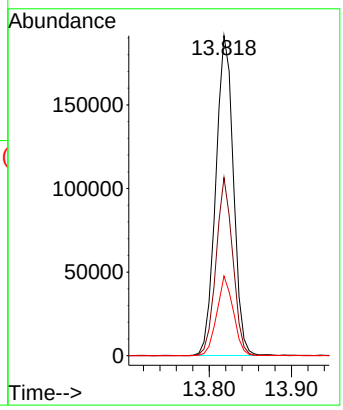




#89
n-Butylbenzene
Concen: 19.717 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 91 Resp: 28525

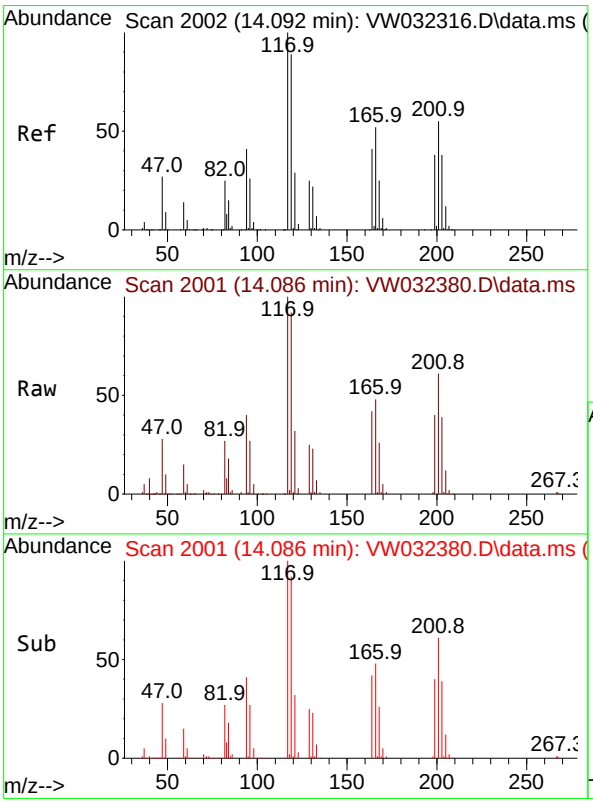
Ion	Ratio	Lower	Upper
91	100		
92	52.8	27.0	81.0
134	23.4	13.1	39.3



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

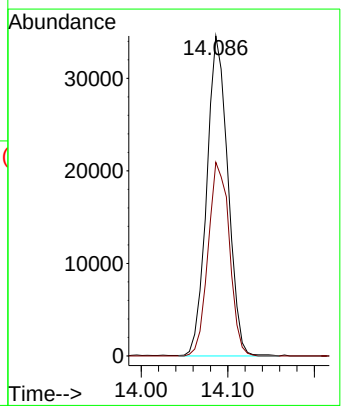
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

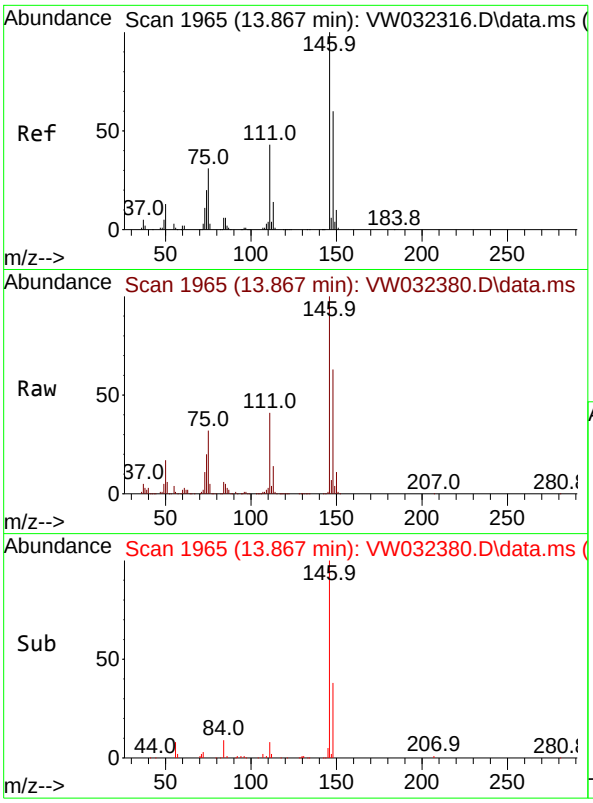


#90
Hexachloroethane
Concen: 22.085 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:117 Resp: 58655

Ion	Ratio	Lower	Upper
117	100		
201	60.6	32.8	98.4

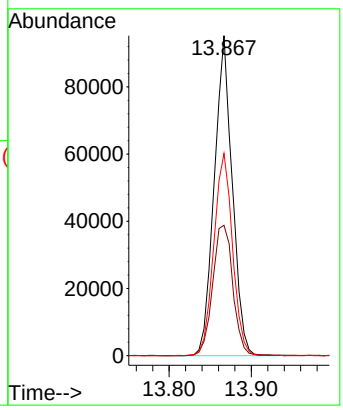




#91
1,2-Dichlorobenzene
Concen: 19.964 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:146 Resp: 14508

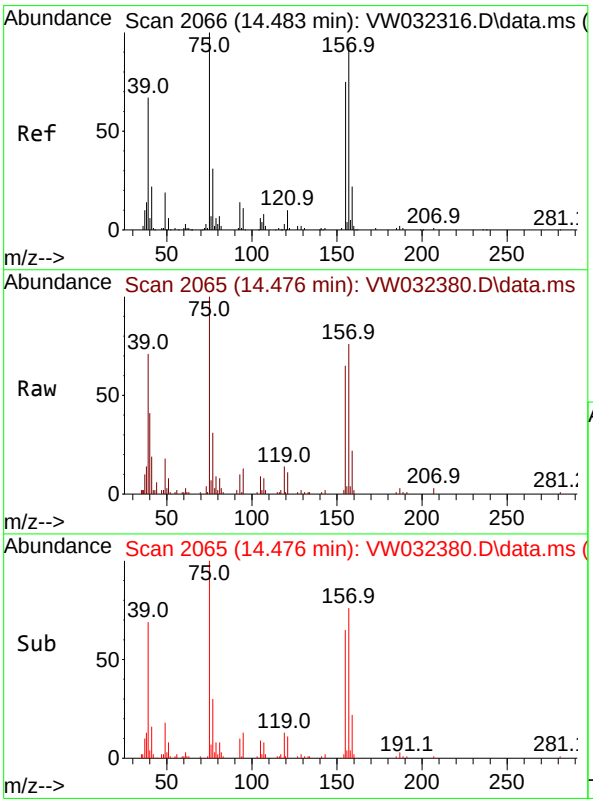
Ion	Ratio	Lower	Upper
146	100		
111	45.5	23.4	70.0
148	65.7	34.1	102.3



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

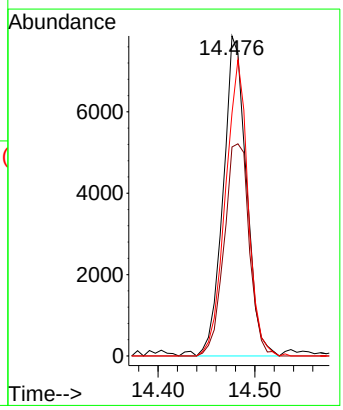
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

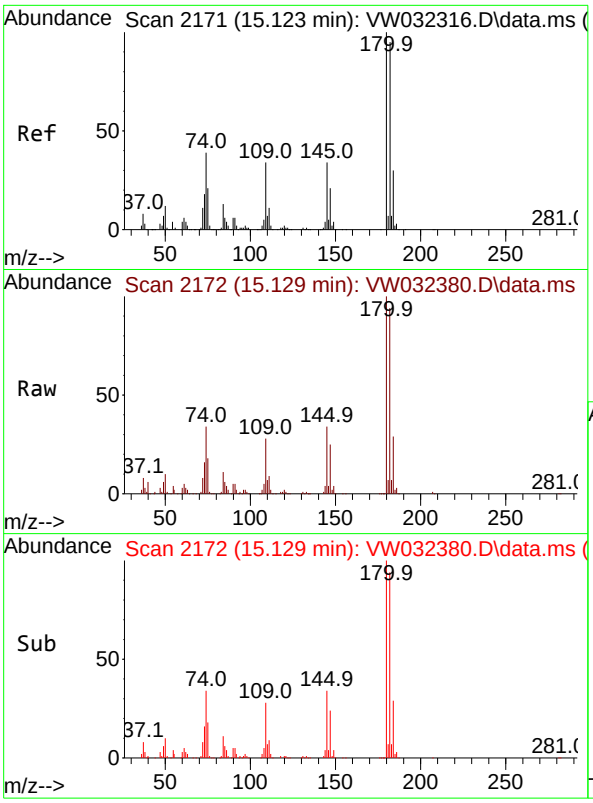


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.371 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion: 75 Resp: 13154

Ion	Ratio	Lower	Upper
75	100		
155	71.5	40.8	122.5
157	89.9	51.8	155.4

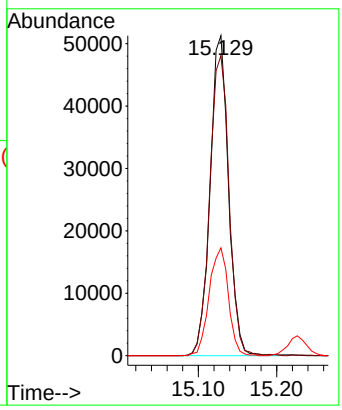




#93
1,2,4-Trichlorobenzene
Concen: 19.198 ug/l
RT: 15.129 min Scan# 21
Delta R.T. 0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:180 Resp: 8366

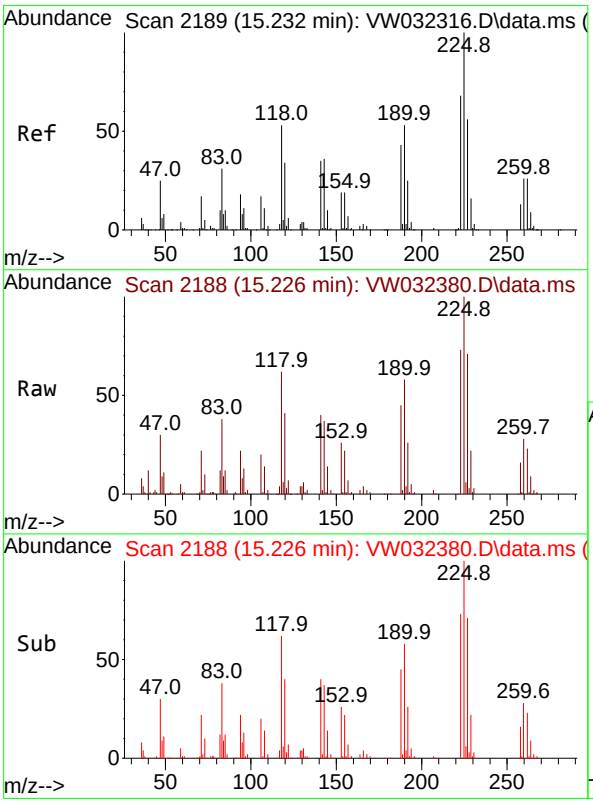
Ion	Ratio	Lower	Upper
180	100		
182	98.4	47.4	142.2
145	35.2	16.4	49.1



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

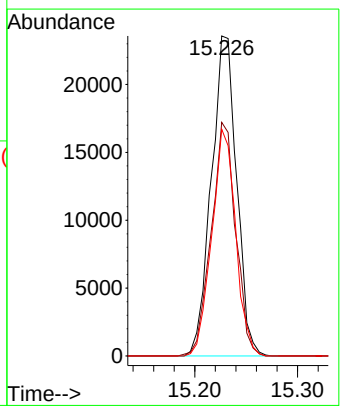
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

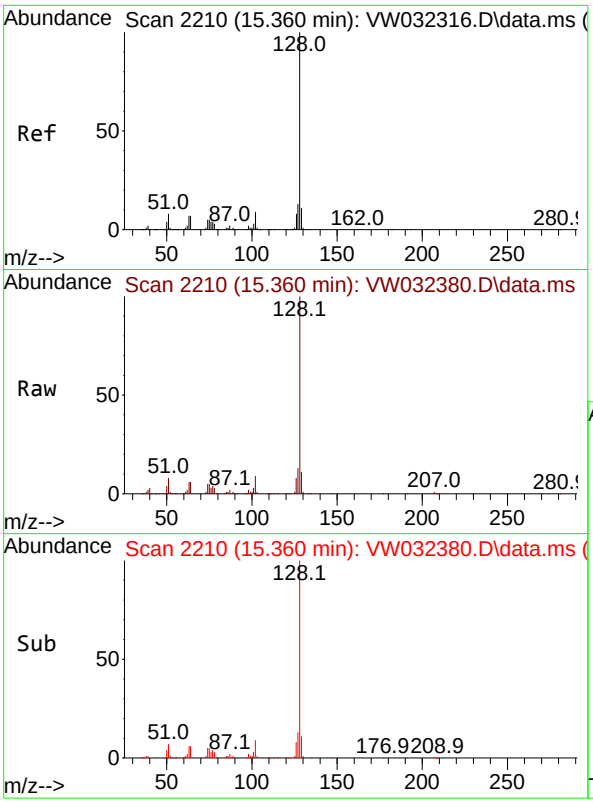


#94
Hexachlorobutadiene
Concen: 20.200 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:225 Resp: 40248

Ion	Ratio	Lower	Upper
225	100		
223	70.5	29.8	89.3
227	66.8	30.5	91.5

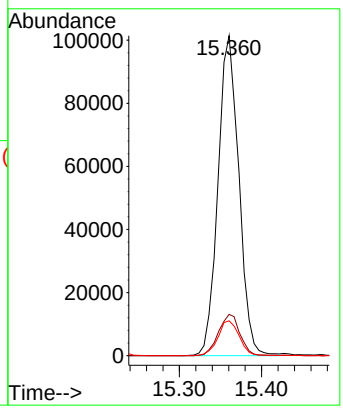




#95
Naphthalene
Concen: 17.083 ug/l
RT: 15.360 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:128 Resp: 17878

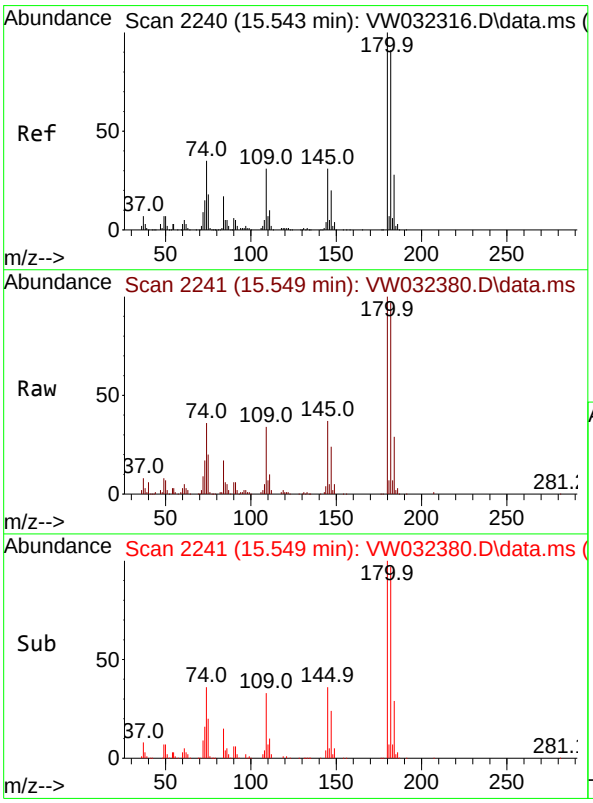
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.6	16.0
129	11.1	8.4	12.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBS01

Manual Integrations
APPROVED

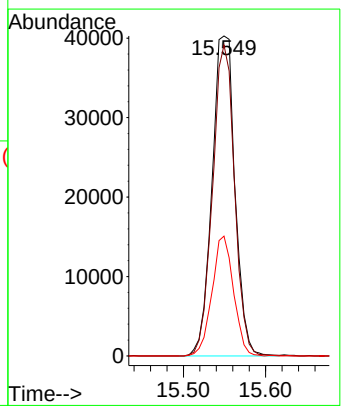
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.048 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.006 min
Lab File: VW032380.D
Acq: 20 Oct 2025 11:41

Tgt Ion:180 Resp: 78242

Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.7	143.1
145	35.1	17.2	51.6



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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VY1020SBS01	SDG No.:	Q3393
Lab Sample ID:	VY1020SBS01	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	20.6		1	1.10	5.00	ug/Kg	10/20/25 10:07	VY102025
74-87-3	Chloromethane	18.9		1	1.10	5.00	ug/Kg	10/20/25 10:07	VY102025
75-01-4	Vinyl Chloride	19.6		1	0.79	5.00	ug/Kg	10/20/25 10:07	VY102025
74-83-9	Bromomethane	21.0		1	1.10	5.00	ug/Kg	10/20/25 10:07	VY102025
75-00-3	Chloroethane	20.2		1	1.30	5.00	ug/Kg	10/20/25 10:07	VY102025
75-69-4	Trichlorofluoromethane	20.8		1	1.20	5.00	ug/Kg	10/20/25 10:07	VY102025
76-13-1	1,1,2-Trichlorotrifluoroethane	21.8		1	1.10	5.00	ug/Kg	10/20/25 10:07	VY102025
75-35-4	1,1-Dichloroethene	20.7		1	1.00	5.00	ug/Kg	10/20/25 10:07	VY102025
67-64-1	Acetone	130		1	4.70	25.0	ug/Kg	10/20/25 10:07	VY102025
75-15-0	Carbon Disulfide	20.2		1	1.10	5.00	ug/Kg	10/20/25 10:07	VY102025
1634-04-4	Methyl tert-butyl Ether	19.0		1	0.73	5.00	ug/Kg	10/20/25 10:07	VY102025
79-20-9	Methyl Acetate	16.3		1	1.50	5.00	ug/Kg	10/20/25 10:07	VY102025
75-09-2	Methylene Chloride	19.0		1	3.50	10.0	ug/Kg	10/20/25 10:07	VY102025
156-60-5	trans-1,2-Dichloroethene	20.8		1	0.86	5.00	ug/Kg	10/20/25 10:07	VY102025
75-34-3	1,1-Dichloroethane	20.3		1	0.80	5.00	ug/Kg	10/20/25 10:07	VY102025
110-82-7	Cyclohexane	19.0		1	0.79	5.00	ug/Kg	10/20/25 10:07	VY102025
78-93-3	2-Butanone	110		1	6.50	25.0	ug/Kg	10/20/25 10:07	VY102025
56-23-5	Carbon Tetrachloride	22.5		1	0.97	5.00	ug/Kg	10/20/25 10:07	VY102025
156-59-2	cis-1,2-Dichloroethene	20.4		1	0.75	5.00	ug/Kg	10/20/25 10:07	VY102025
74-97-5	Bromochloromethane	20.1		1	1.20	5.00	ug/Kg	10/20/25 10:07	VY102025
67-66-3	Chloroform	20.8		1	0.84	5.00	ug/Kg	10/20/25 10:07	VY102025
71-55-6	1,1,1-Trichloroethane	20.9		1	0.93	5.00	ug/Kg	10/20/25 10:07	VY102025
108-87-2	Methylcyclohexane	20.4		1	0.91	5.00	ug/Kg	10/20/25 10:07	VY102025
71-43-2	Benzene	21.3		1	0.79	5.00	ug/Kg	10/20/25 10:07	VY102025
107-06-2	1,2-Dichloroethane	20.7		1	0.79	5.00	ug/Kg	10/20/25 10:07	VY102025
79-01-6	Trichloroethene	22.2		1	0.81	5.00	ug/Kg	10/20/25 10:07	VY102025
78-87-5	1,2-Dichloropropane	21.1		1	0.91	5.00	ug/Kg	10/20/25 10:07	VY102025
75-27-4	Bromodichloromethane	21.7		1	0.78	5.00	ug/Kg	10/20/25 10:07	VY102025
108-10-1	4-Methyl-2-Pentanone	97.8		1	3.60	25.0	ug/Kg	10/20/25 10:07	VY102025
108-88-3	Toluene	21.7		1	0.78	5.00	ug/Kg	10/20/25 10:07	VY102025
10061-02-6	t-1,3-Dichloropropene	20.5		1	0.65	5.00	ug/Kg	10/20/25 10:07	VY102025
10061-01-5	cis-1,3-Dichloropropene	21.0		1	0.62	5.00	ug/Kg	10/20/25 10:07	VY102025
79-00-5	1,1,2-Trichloroethane	21.9		1	0.92	5.00	ug/Kg	10/20/25 10:07	VY102025
591-78-6	2-Hexanone	110		1	3.70	25.0	ug/Kg	10/20/25 10:07	VY102025
124-48-1	Dibromochloromethane	22.0		1	0.87	5.00	ug/Kg	10/20/25 10:07	VY102025
106-93-4	1,2-Dibromoethane	21.1		1	0.88	5.00	ug/Kg	10/20/25 10:07	VY102025
127-18-4	Tetrachloroethene	22.2		1	1.10	5.00	ug/Kg	10/20/25 10:07	VY102025
108-90-7	Chlorobenzene	21.0		1	0.91	5.00	ug/Kg	10/20/25 10:07	VY102025
100-41-4	Ethyl Benzene	20.4		1	0.67	5.00	ug/Kg	10/20/25 10:07	VY102025
179601-23-1	m/p-Xylenes	42.2		1	1.20	10.0	ug/Kg	10/20/25 10:07	VY102025
95-47-6	o-Xylene	20.5		1	0.82	5.00	ug/Kg	10/20/25 10:07	VY102025
100-42-5	Styrene	21.2		1	0.71	5.00	ug/Kg	10/20/25 10:07	VY102025
75-25-2	Bromoform	21.9		1	0.86	5.00	ug/Kg	10/20/25 10:07	VY102025

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VY1020SBS01	SDG No.:	Q3393
Lab Sample ID:	VY1020SBS01	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	20.3		1	0.78	5.00	ug/Kg	10/20/25 10:07	VY102025
79-34-5	1,1,2,2-Tetrachloroethane	19.5		1	1.20	5.00	ug/Kg	10/20/25 10:07	VY102025
541-73-1	1,3-Dichlorobenzene	20.6		1	1.70	5.00	ug/Kg	10/20/25 10:07	VY102025
106-46-7	1,4-Dichlorobenzene	20.6		1	1.60	5.00	ug/Kg	10/20/25 10:07	VY102025
95-50-1	1,2-Dichlorobenzene	20.6		1	1.50	5.00	ug/Kg	10/20/25 10:07	VY102025
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		1	1.80	5.00	ug/Kg	10/20/25 10:07	VY102025
120-82-1	1,2,4-Trichlorobenzene	19.4		1	3.00	5.00	ug/Kg	10/20/25 10:07	VY102025
87-61-6	1,2,3-Trichlorobenzene	18.8		1	3.20	5.00	ug/Kg	10/20/25 10:07	VY102025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	46.1			63 - 155	92%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.3			70 - 134	101%	SPK: 50		
2037-26-5	Toluene-d8	50.2			74 - 123	100%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.4			17 - 146	99%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	524000							
540-36-3	1,4-Difluorobenzene	743000							
3114-55-4	Chlorobenzene-d5	663000							
3855-82-1	1,4-Dichlorobenzene-d4	353000							

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\VY102025\
Data File : VY023497.D
Acq On : 20 Oct 2025 10:07
Operator : SY/MD
Sample : VY1020SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 03:54:32 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 :
VY1020SBS01

Manual Integrations APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	523739	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	742947	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	663321	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	353337	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	201834	46.085	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 92.180%			
35) Dibromofluoromethane	7.634	113	229832	50.346	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 100.700%			
50) Toluene-d8	10.109	98	853532	50.206	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.420%			
62) 4-Bromofluorobenzene	12.408	95	277115	49.372	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 98.740%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	77468	20.550	ug/l	97
3) Chloromethane	2.074	50	96902	18.869	ug/l	99
4) Vinyl Chloride	2.208	62	131187	19.613	ug/l	99
5) Bromomethane	2.592	94	118051	21.031	ug/l	99
6) Chloroethane	2.739	64	92174	20.216	ug/l	99
7) Trichlorofluoromethane	3.056	101	193473	20.832	ug/l	97
8) Diethyl Ether	3.458	74	46390	19.115	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.818	101	105173	21.823	ug/l	99
10) Methyl Iodide	4.007	142	105809	19.721	ug/l	99
11) Tert butyl alcohol	4.854	59	32322	99.203	ug/l #	86
12) 1,1-Dichloroethene	3.787	96	96483	20.652	ug/l	98
13) Acrolein	3.659	56	23875	51.859	ug/l	95
14) Allyl chloride	4.385	41	105896	18.599	ug/l	98
15) Acrylonitrile	5.061	53	87542	94.259	ug/l	99
16) Acetone	3.866	43	136934	131.334	ug/l	99
17) Carbon Disulfide	4.110	76	269483	20.154	ug/l	99
18) Methyl Acetate	4.391	43	44512	16.275	ug/l	97
19) Methyl tert-butyl Ether	5.116	73	212783	18.950	ug/l	94
20) Methylene Chloride	4.622	84	107272	19.027	ug/l	96
21) trans-1,2-Dichloroethene	5.116	96	106769	20.758	ug/l	98
22) Diisopropyl ether	6.025	45	241713	19.192	ug/l	96
23) Vinyl Acetate	5.964	43	646610	94.852	ug/l	97
24) 1,1-Dichloroethane	5.921	63	169150	20.276	ug/l	99
25) 2-Butanone	6.896	43	142543	111.983	ug/l	96
26) 2,2-Dichloropropane	6.890	77	163000	21.293	ug/l	100
27) cis-1,2-Dichloroethene	6.896	96	121042	20.372	ug/l	98
28) Bromochloromethane	7.244	49	62645	20.115	ug/l	98
29) Tetrahydrofuran	7.268	42	61631	85.382	ug/l	94
30) Chloroform	7.421	83	190902	20.827	ug/l	98
31) Cyclohexane	7.707	56	138372	18.993	ug/l	90
32) 1,1,1-Trichloroethane	7.622	97	174243	20.918	ug/l	99
36) 1,1-Dichloropropene	7.841	75	129736	21.466	ug/l	99
37) Ethyl Acetate	6.988	43	47097	19.670	ug/l	95
38) Carbon Tetrachloride	7.823	117	165108	22.530	ug/l	97
39) Methylcyclohexane	9.109	83	160443	20.389	ug/l	97
40) Benzene	8.085	78	407322	21.281	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023497.D
Acq On : 20 Oct 2025 10:07
Operator : SY/MD
Sample : VY1020SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 03:54:32 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 :
VY1020SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.244	41	27651m	21.353	ug/l		
42) 1,2-Dichloroethane	8.158	62	102253	20.715	ug/l		99
43) Isopropyl Acetate	8.201	43	89728	18.794	ug/l		99
44) Trichloroethene	8.866	130	124158	22.163	ug/l		98
45) 1,2-Dichloropropane	9.146	63	89402	21.148	ug/l		100
46) Dibromomethane	9.231	93	57801	21.622	ug/l		97
47) Bromodichloromethane	9.426	83	146088	21.699	ug/l		98
48) Methyl methacrylate	9.225	41	40192	17.919	ug/l		91
49) 1,4-Dioxane	9.231	88	11618	374.851	ug/l		93
51) 4-Methyl-2-Pentanone	9.999	43	241172	97.770	ug/l		99
52) Toluene	10.170	92	269261	21.667	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	119883	20.479	ug/l		100
54) cis-1,3-Dichloropropene	9.859	75	145166	21.011	ug/l		99
55) 1,1,2-Trichloroethane	10.573	97	78656	21.881	ug/l		96
56) Ethyl methacrylate	10.438	69	79990	19.290	ug/l		96
57) 1,3-Dichloropropane	10.719	76	121022	21.246	ug/l		99
58) 2-Chloroethyl Vinyl ether	9.713	63	168775	90.858	ug/l		100
59) 2-Hexanone	10.762	43	192433	109.161	ug/l		99
60) Dibromochloromethane	10.914	129	110798	21.984	ug/l		100
61) 1,2-Dibromoethane	11.018	107	72250	21.075	ug/l		99
64) Tetrachloroethene	10.646	164	151867	22.173	ug/l		98
65) Chlorobenzene	11.444	112	302485	20.967	ug/l		100
66) 1,1,1,2-Tetrachloroethane	11.517	131	110179	21.431	ug/l		98
67) Ethyl Benzene	11.517	91	476476	20.403	ug/l		100
68) m/p-Xylenes	11.627	106	394831	42.153	ug/l		100
69) o-Xylene	11.956	106	180028	20.491	ug/l		99
70) Styrene	11.969	104	305623	21.154	ug/l		99
71) Bromoform	12.133	173	69820	21.894	ug/l	#	97
73) Isopropylbenzene	12.255	105	471638	20.255	ug/l		100
74) N-amyl acetate	12.072	43	73717	17.626	ug/l		97
75) 1,1,2,2-Tetrachloroethane	12.505	83	74362	19.525	ug/l		98
76) 1,2,3-Trichloropropane	12.554	75	58372m	18.725	ug/l		
77) Bromobenzene	12.530	156	126770	20.478	ug/l		99
78) n-propylbenzene	12.597	91	564399	20.946	ug/l		100
79) 2-Chlorotoluene	12.682	91	319779	20.266	ug/l		99
80) 1,3,5-Trimethylbenzene	12.737	105	389889	20.721	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.304	75	25105	19.748	ug/l		99
82) 4-Chlorotoluene	12.779	91	337426	20.763	ug/l		100
83) tert-Butylbenzene	12.999	119	351553	20.235	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	388491	20.688	ug/l		100
85) sec-Butylbenzene	13.176	105	519789	20.857	ug/l		100
86) p-Isopropyltoluene	13.292	119	441147	20.790	ug/l		99
87) 1,3-Dichlorobenzene	13.285	146	248425	20.608	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	244966	20.575	ug/l		99
89) n-Butylbenzene	13.615	91	373193	20.185	ug/l		98
90) Hexachloroethane	13.877	117	96938	21.241	ug/l		99
91) 1,2-Dichlorobenzene	13.657	146	217576	20.587	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	11872	18.998	ug/l		97
93) 1,2,4-Trichlorobenzene	14.919	180	128052	19.435	ug/l		98
94) Hexachlorobutadiene	15.023	225	86443	21.047	ug/l		99
95) Naphthalene	15.145	128	175261	16.704	ug/l		98
96) 1,2,3-Trichlorobenzene	15.328	180	107165	18.778	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023497.D
Acq On : 20 Oct 2025 10:07
Operator : SY/MD
Sample : VY1020SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 21 03:54:32 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 :
VY1020SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

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

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

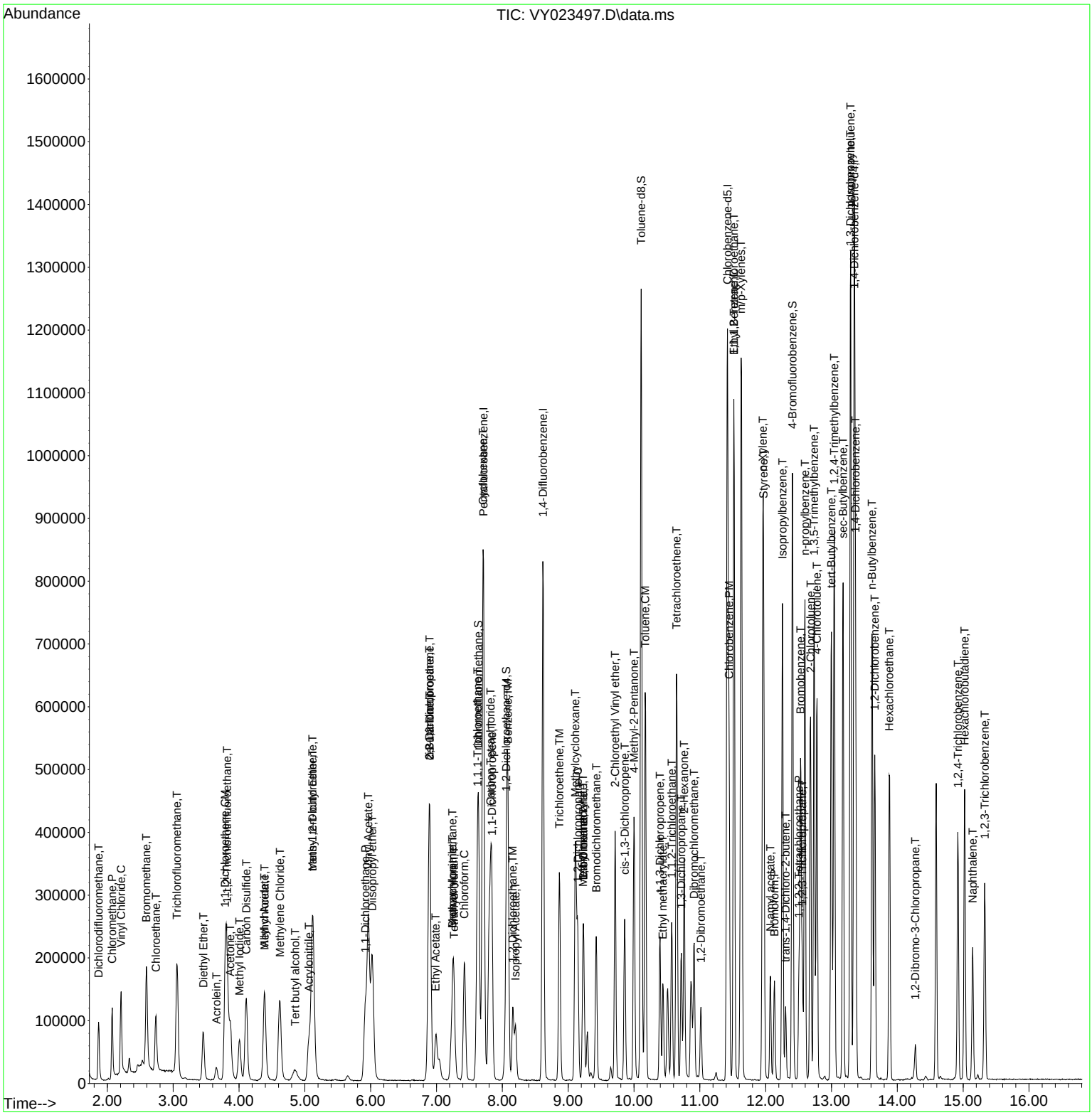
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
Data File : VY023497.D
Acq On : 20 Oct 2025 10:07
Operator : SY/MD
Sample : VY1020SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

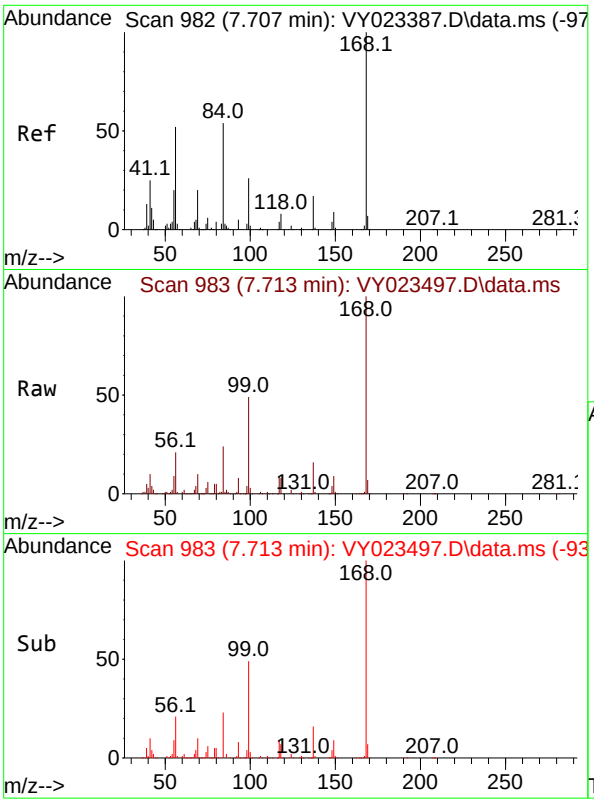
Quant Time: Oct 21 03:54:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

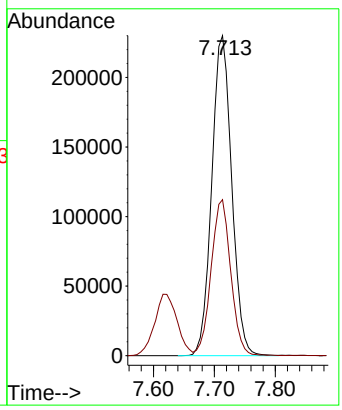




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:168 Resp: 52373

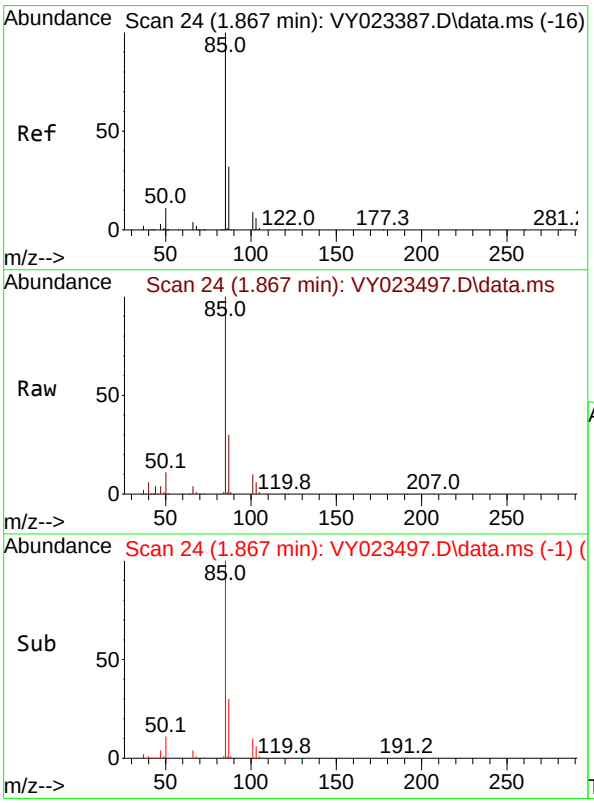
Ion	Ratio	Lower	Upper
168	100		
99	48.7	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

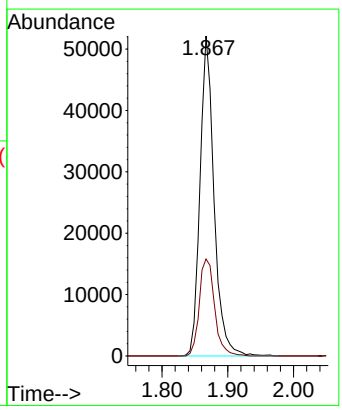
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

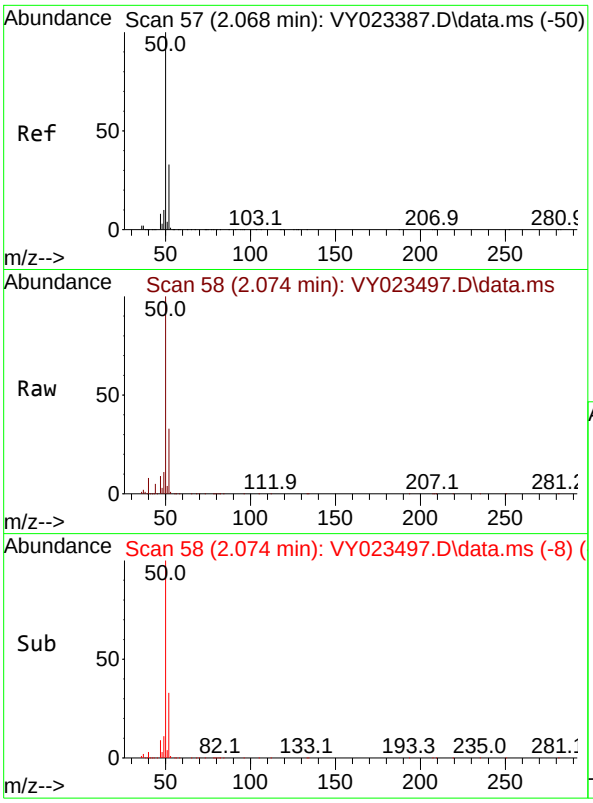


#2
Dichlorodifluoromethane
Concen: 20.550 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 85 Resp: 77468

Ion	Ratio	Lower	Upper
85	100		
87	30.3	16.0	47.9

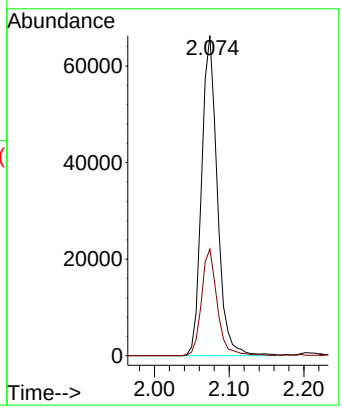




#3
Chloromethane
Concen: 18.869 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

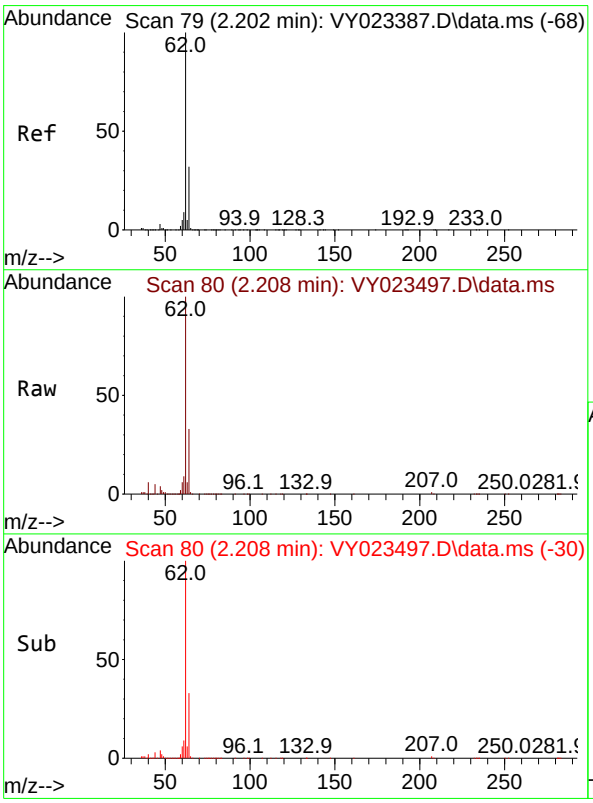
Tgt Ion: 50 Resp: 9690

Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

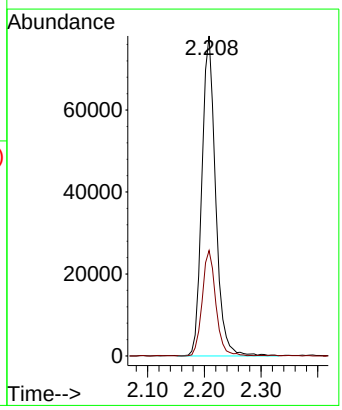
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

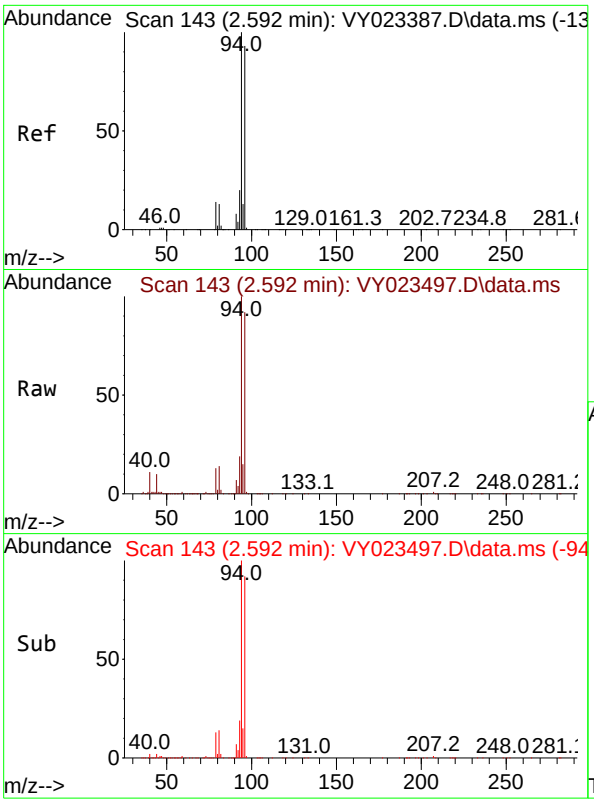


#4
Vinyl Chloride
Concen: 19.613 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 62 Resp: 131187

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.8	38.8

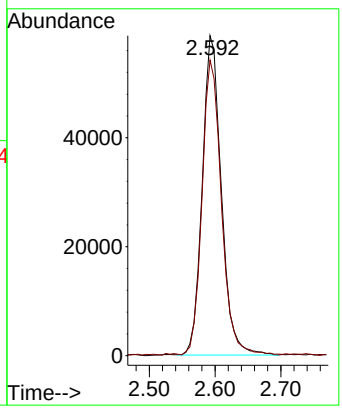




#5
Bromomethane
Concen: 21.031 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 94 Resp: 11805

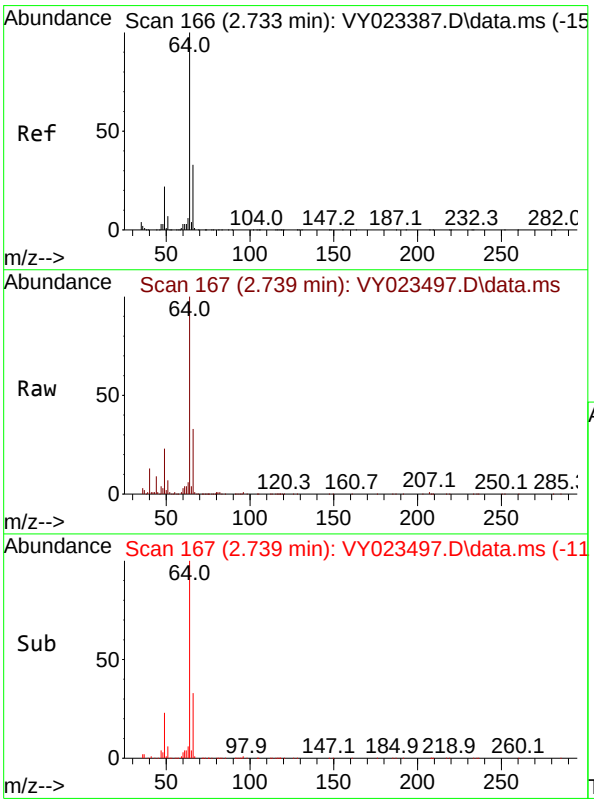
Ion	Ratio	Lower	Upper
94	100		
96	92.1	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

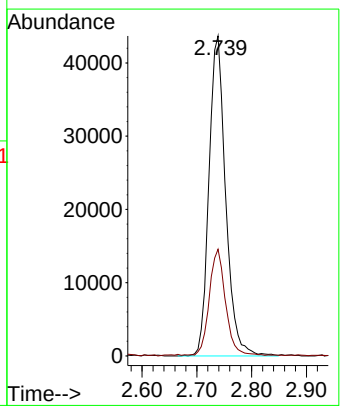
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

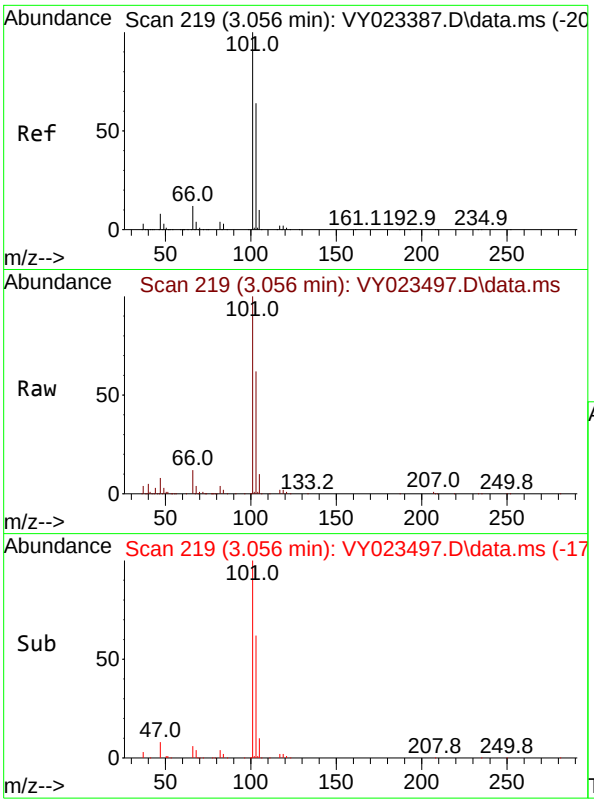


#6
Chloroethane
Concen: 20.216 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 64 Resp: 92174

Ion	Ratio	Lower	Upper
64	100		
66	33.1	26.2	39.4





#7
Trichlorofluoromethane
Concen: 20.832 ug/l
RT: 3.056 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

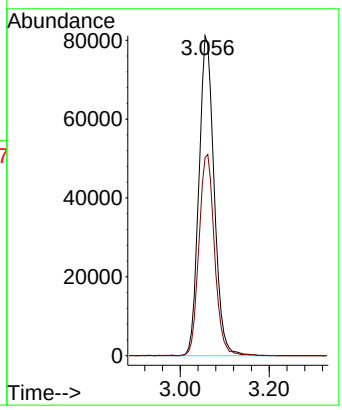
Tgt Ion:101 Resp: 19347

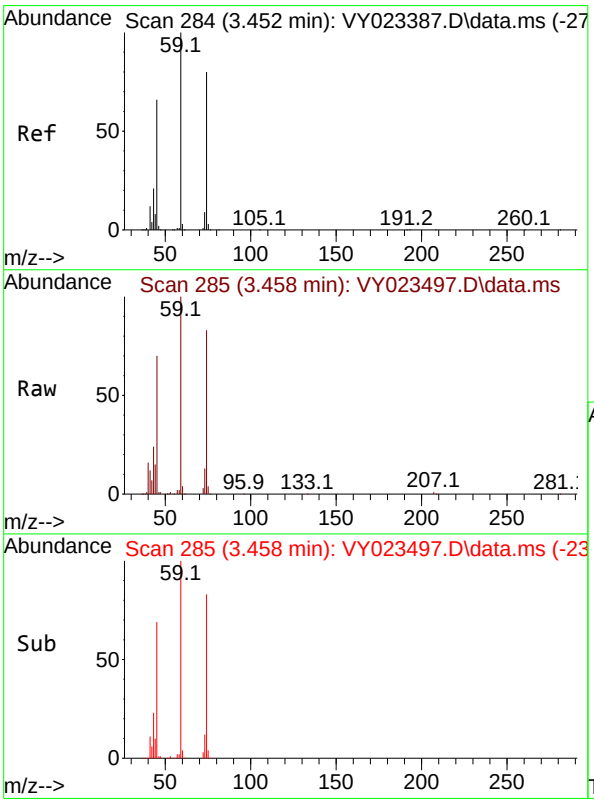
Ion	Ratio	Lower	Upper
101	100		
103	61.9	51.3	76.9

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

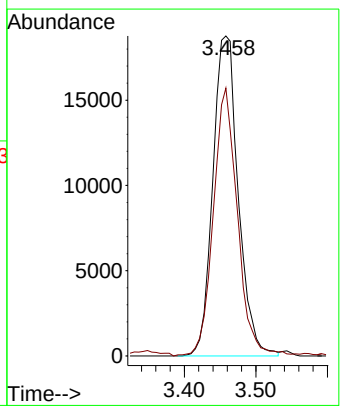


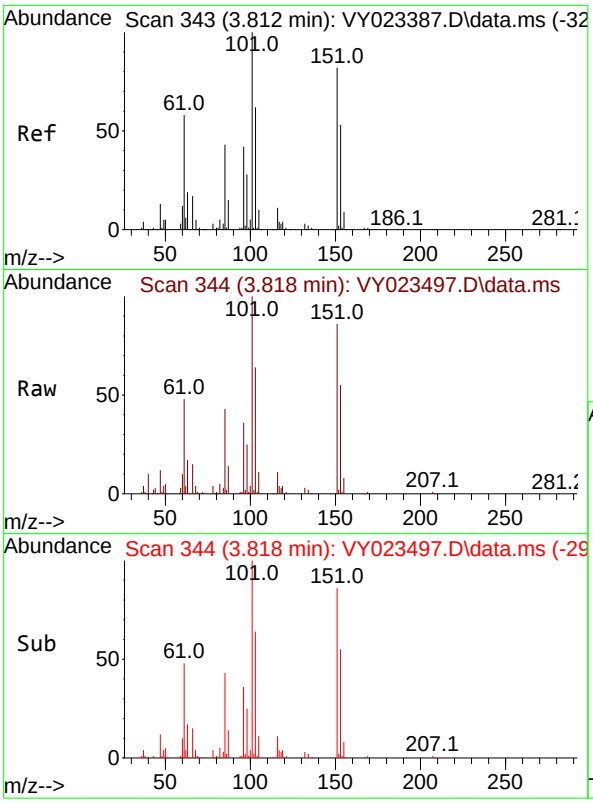


#8
Diethyl Ether
Concen: 19.115 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 74 Resp: 46390

Ion	Ratio	Lower	Upper
74	100		
45	78.3	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.823 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

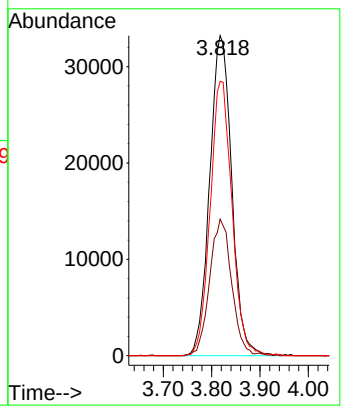
Tgt Ion:101 Resp: 10517

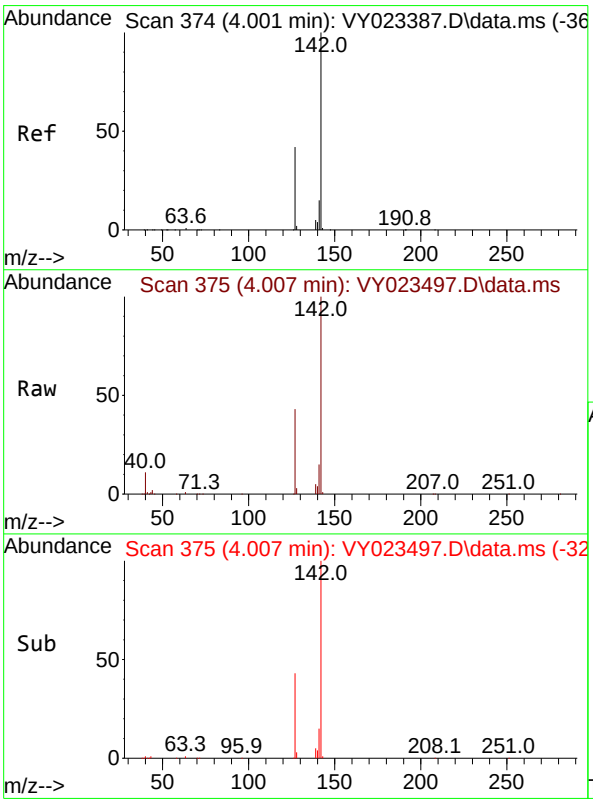
Ion	Ratio	Lower	Upper
101	100		
85	42.4	34.6	51.8
151	85.1	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

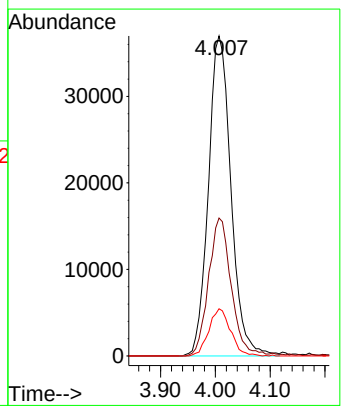


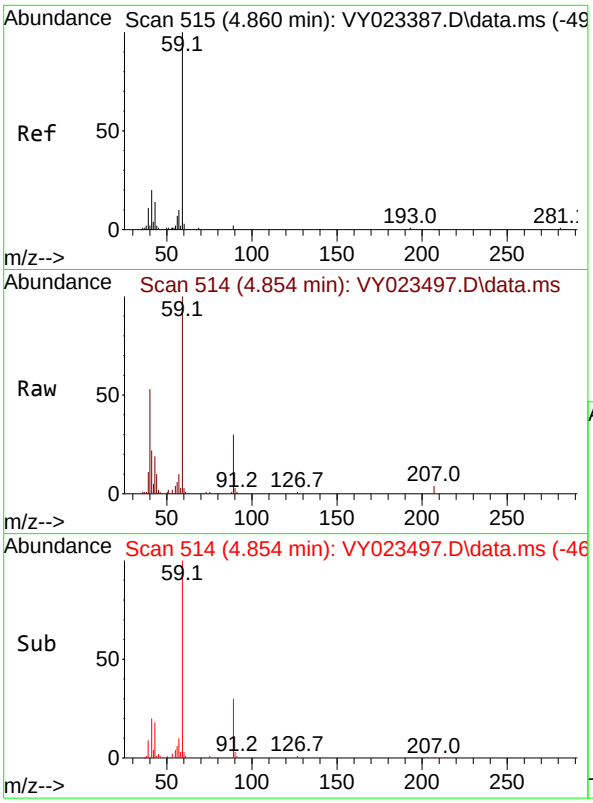


#10
Methyl Iodide
Concen: 19.721 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:142 Resp: 105809

Ion	Ratio	Lower	Upper
142	100		
127	43.1	34.8	52.2
141	14.2	11.6	17.4

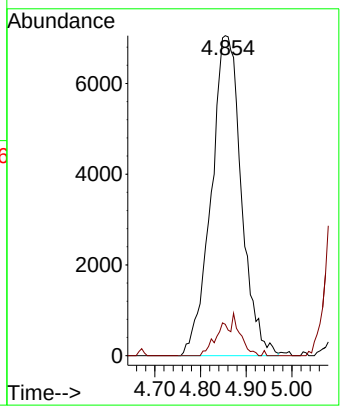




#11
Tert butyl alcohol
Concen: 99.203 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 59 Resp: 3232

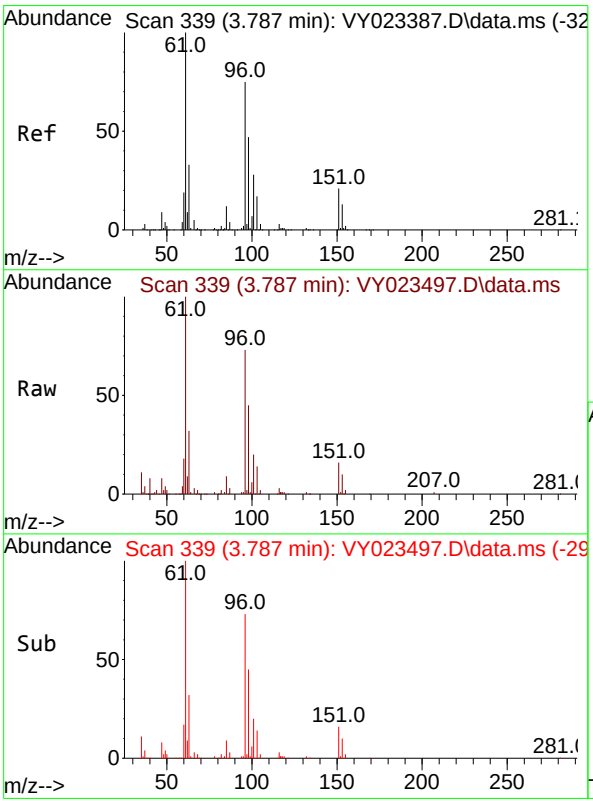
Ion	Ratio	Lower	Upper
59	100		
57	5.1	8.3	12.5#



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

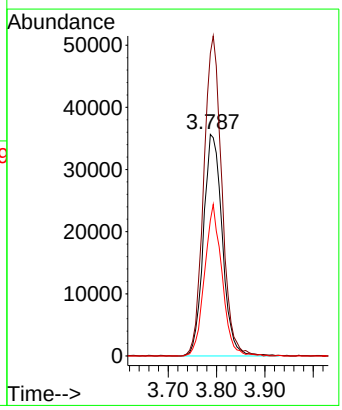
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

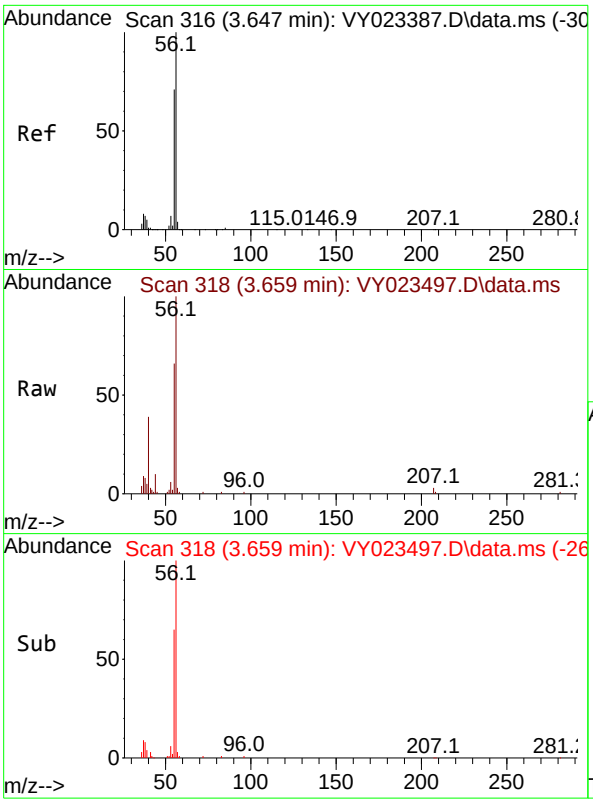


#12
1,1-Dichloroethene
Concen: 20.652 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 96 Resp: 96483

Ion	Ratio	Lower	Upper
96	100		
61	136.6	106.7	160.1
98	61.2	50.2	75.4

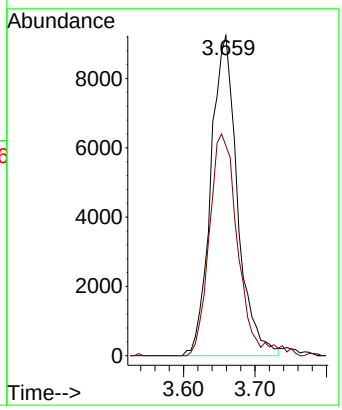




#13
Acrolein
Concen: 51.859 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 56 Resp: 2387

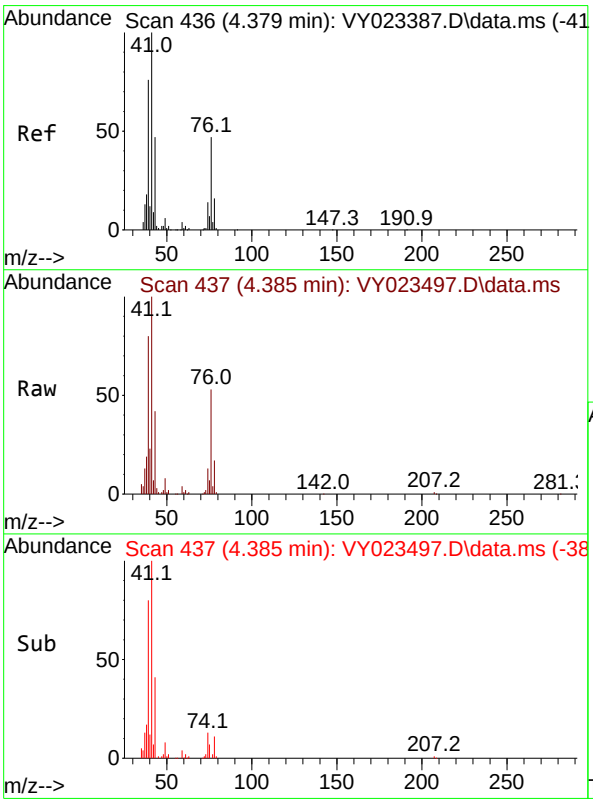
Ion	Ratio	Lower	Upper
56	100		
55	74.4	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

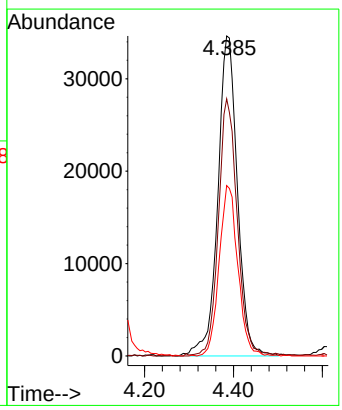
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

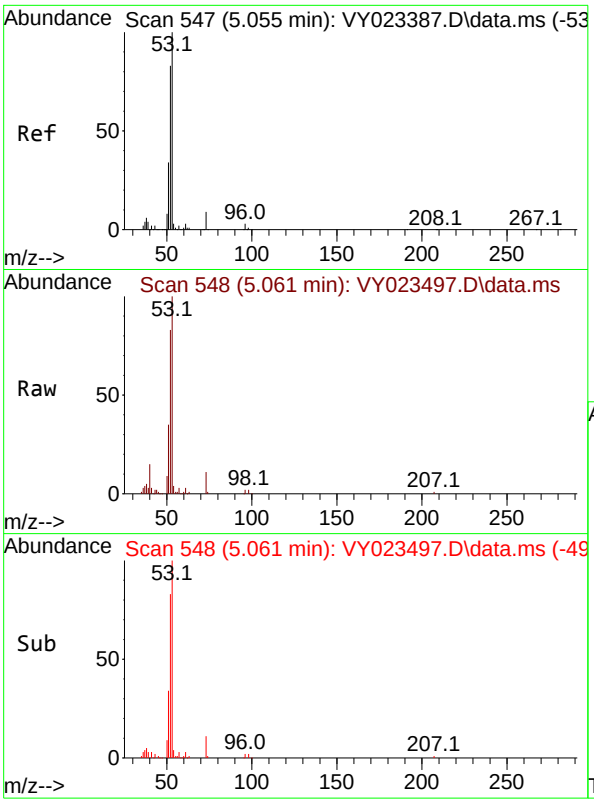


#14
Allyl chloride
Concen: 18.599 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 41 Resp: 105896

Ion	Ratio	Lower	Upper
41	100		
39	75.4	59.9	89.9
76	50.7	38.0	57.0

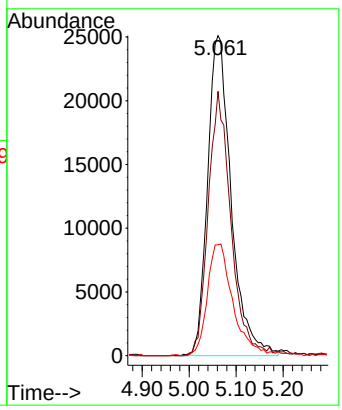




#15
Acrylonitrile
Concen: 94.259 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 53 Resp: 8754

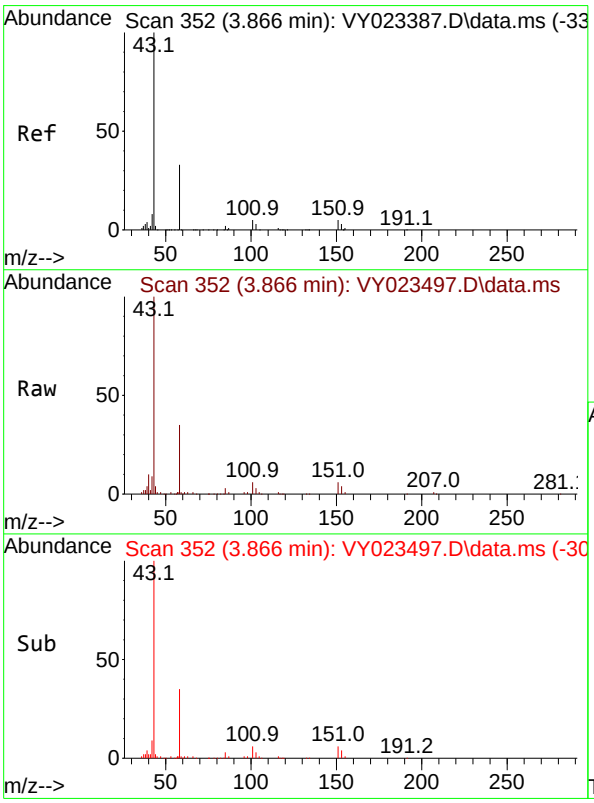
Ion	Ratio	Lower	Upper
53	100		
52	79.3	64.6	97.0
51	37.5	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

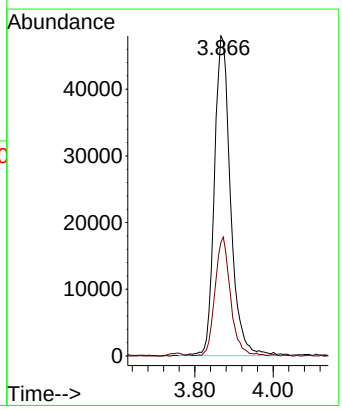
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

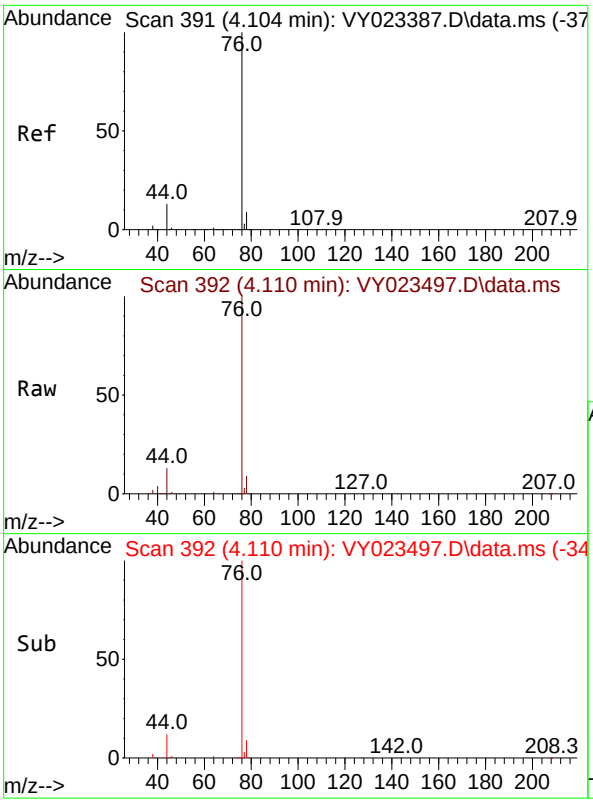


#16
Acetone
Concen: 131.334 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 43 Resp: 136934

Ion	Ratio	Lower	Upper
43	100		
58	35.3	27.7	41.5

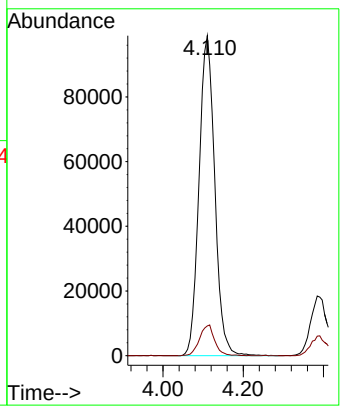




#17
Carbon Disulfide
Concen: 20.154 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 76 Resp: 26948

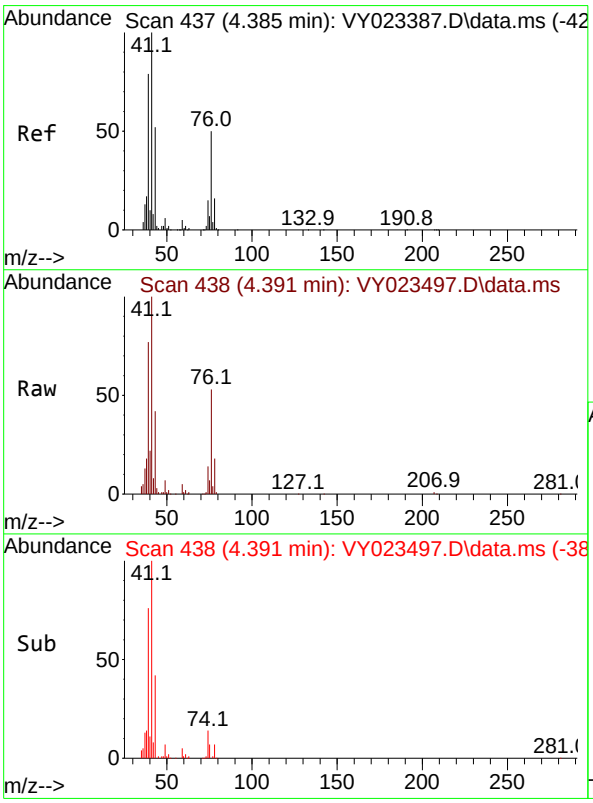
Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

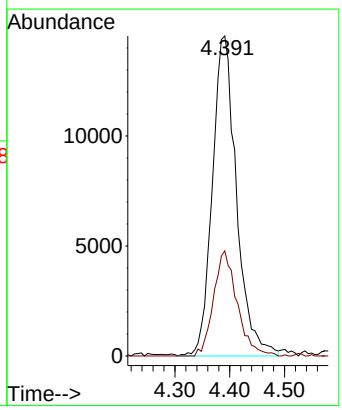
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

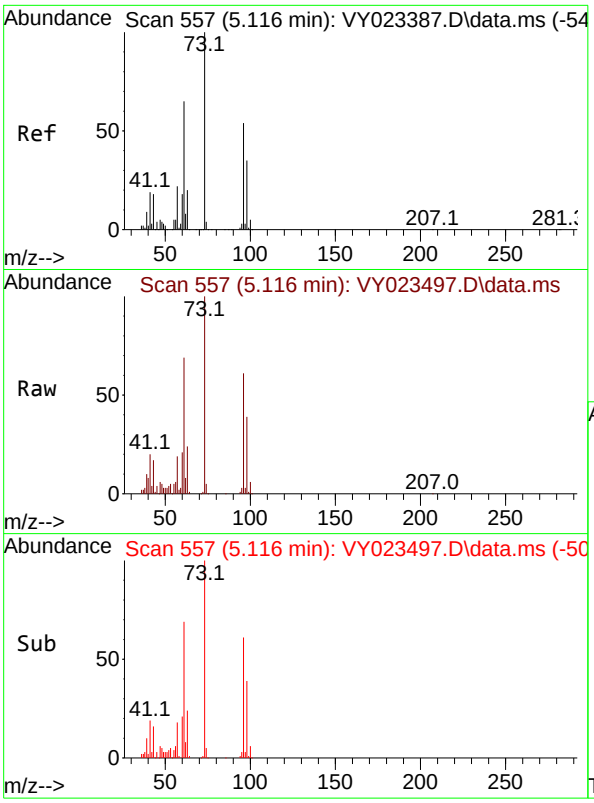


#18
Methyl Acetate
Concen: 16.275 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 43 Resp: 44512

Ion	Ratio	Lower	Upper
43	100		
74	32.1	24.2	36.4

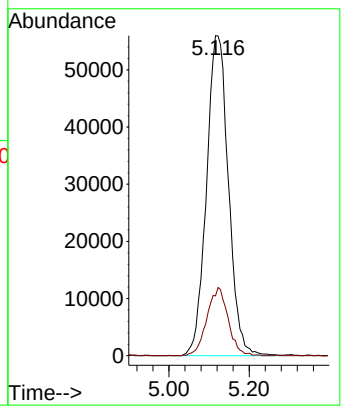




#19
Methyl tert-butyl Ether
Concen: 18.950 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 73 Resp: 21278

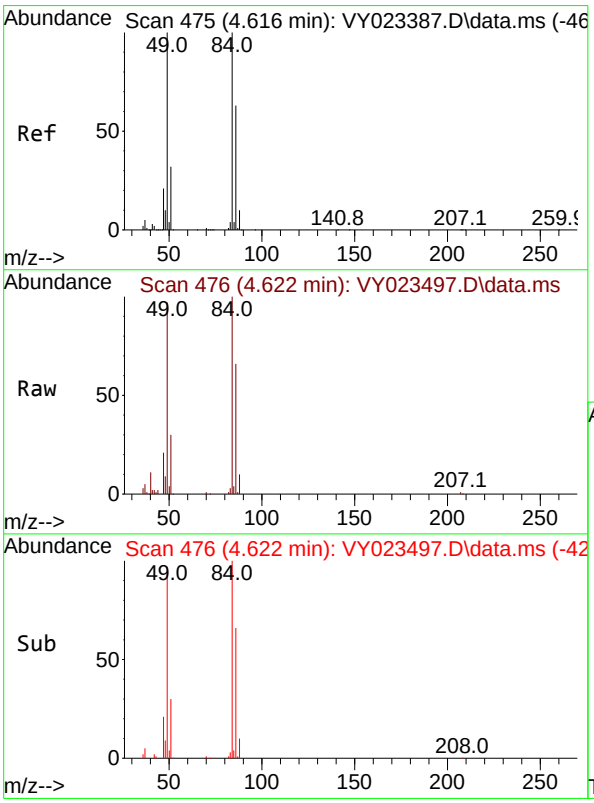
Ion	Ratio	Lower	Upper
73	100		
57	18.7	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

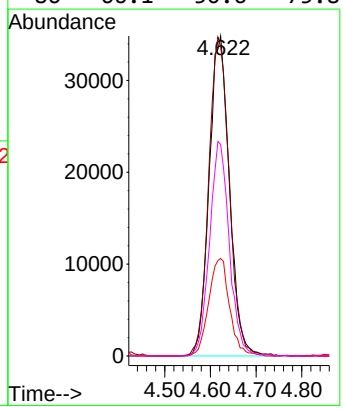
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

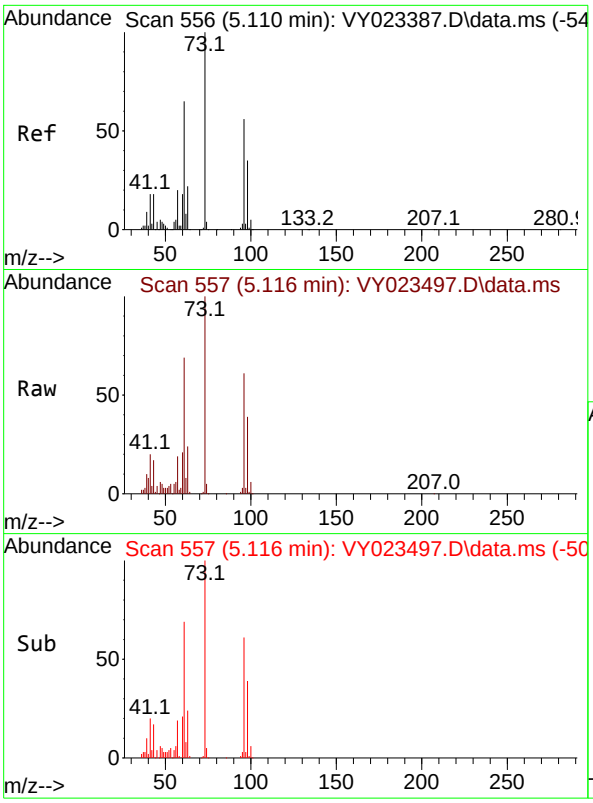


#20
Methylene Chloride
Concen: 19.027 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 84 Resp: 107272

Ion	Ratio	Lower	Upper
84	100		
49	96.8	80.2	120.4
51	30.5	25.9	38.9
86	66.1	50.6	75.8

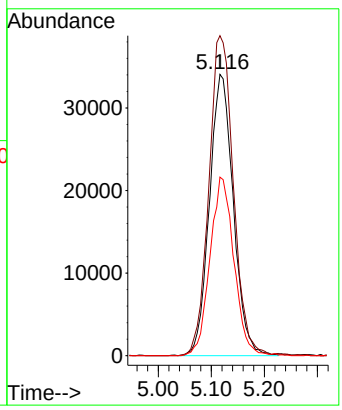




#21
trans-1,2-Dichloroethene
Concen: 20.758 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 96 Resp: 10676

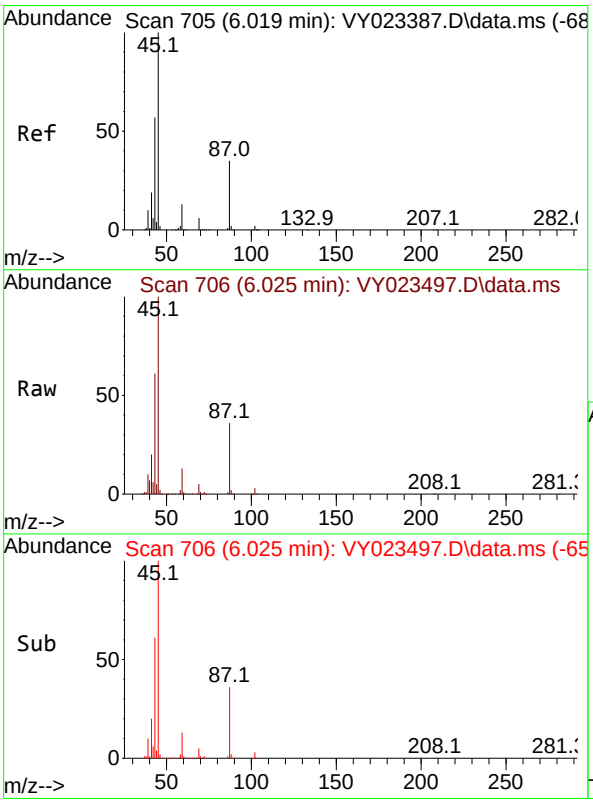
Ion	Ratio	Lower	Upper
96	100		
61	113.7	92.7	139.1
98	63.4	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

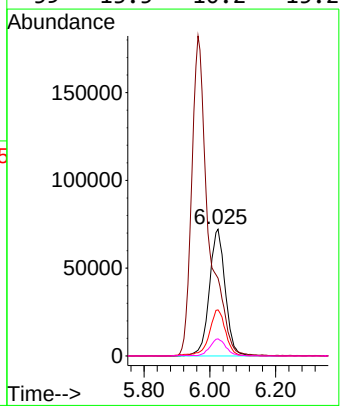
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

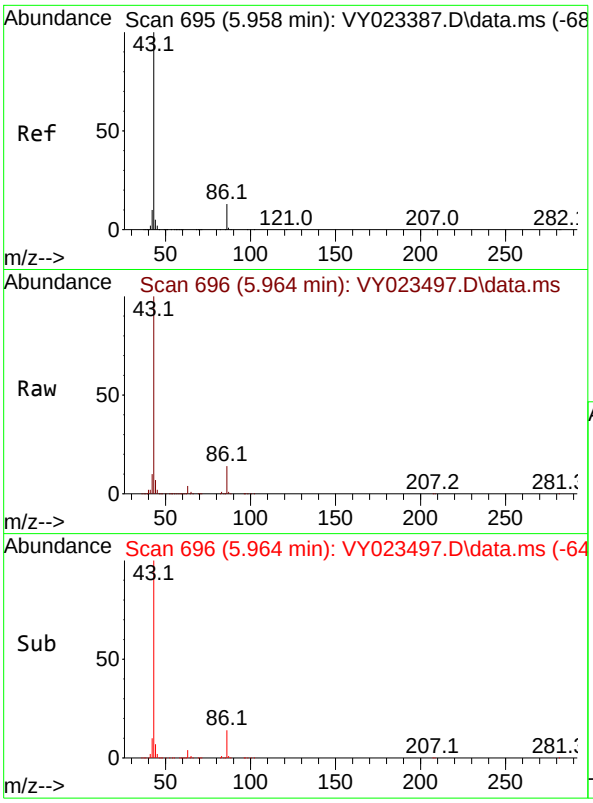


#22
Diisopropyl ether
Concen: 19.192 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 45 Resp: 241713

Ion	Ratio	Lower	Upper
45	100		
43	61.0	45.6	68.4
87	36.4	28.1	42.1
59	13.5	10.2	15.2

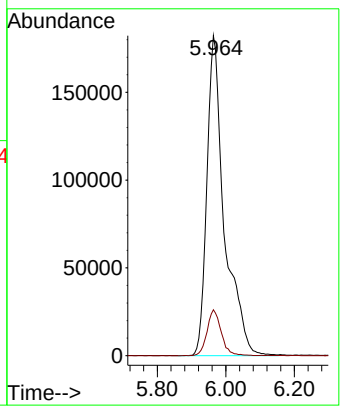




#23
Vinyl Acetate
Concen: 94.852 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 43 Resp: 64661

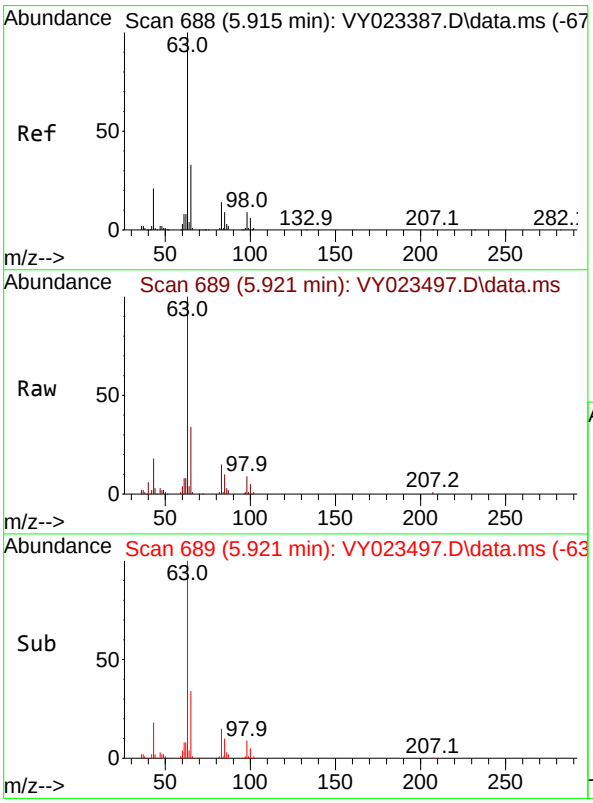
Ion	Ratio	Lower	Upper
43	100		
86	14.3	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

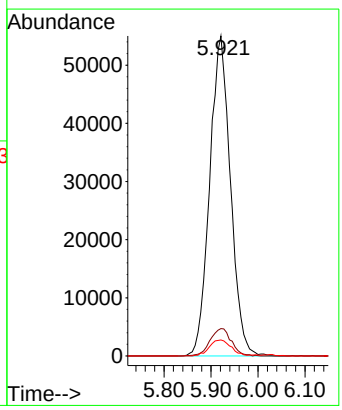
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

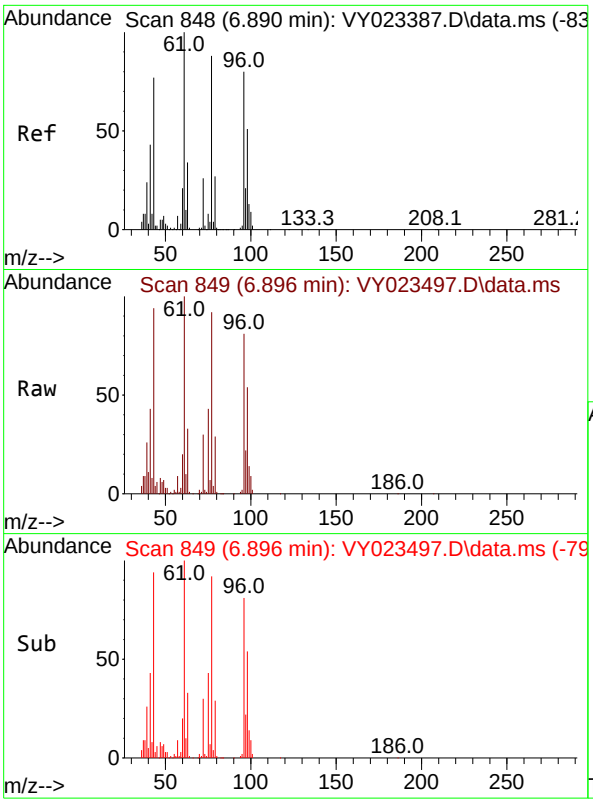


#24
1,1-Dichloroethane
Concen: 20.276 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 63 Resp: 169150

Ion	Ratio	Lower	Upper
63	100		
98	8.5	4.3	13.1
100	5.0	2.8	8.4

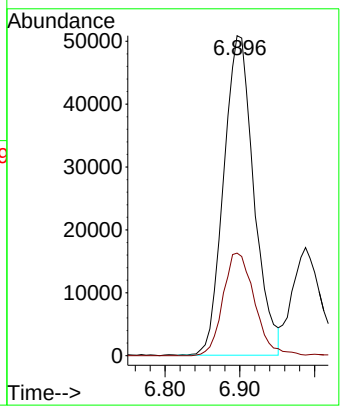




#25
2-Butanone
Concen: 111.983 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 43 Resp: 14254

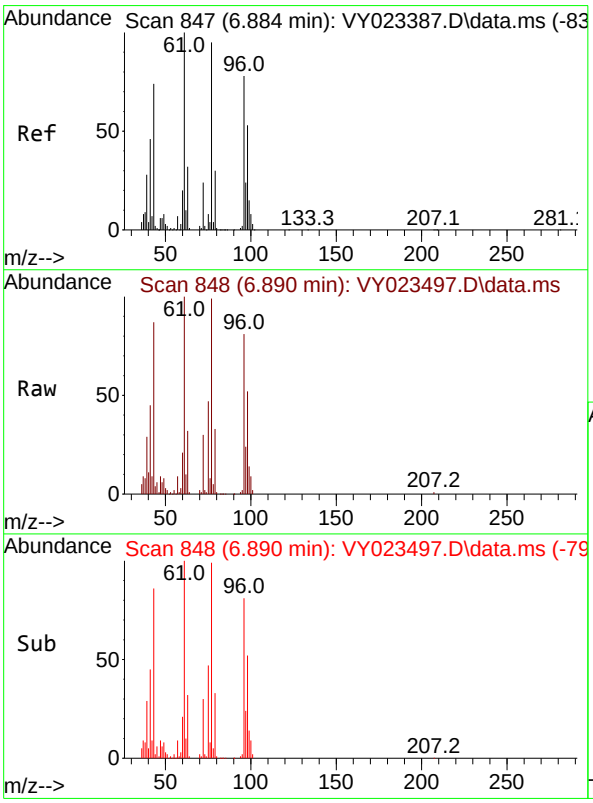
Ion	Ratio	Lower	Upper
43	100		
72	32.1	27.4	41.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

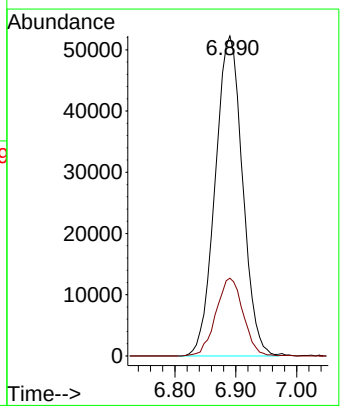
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

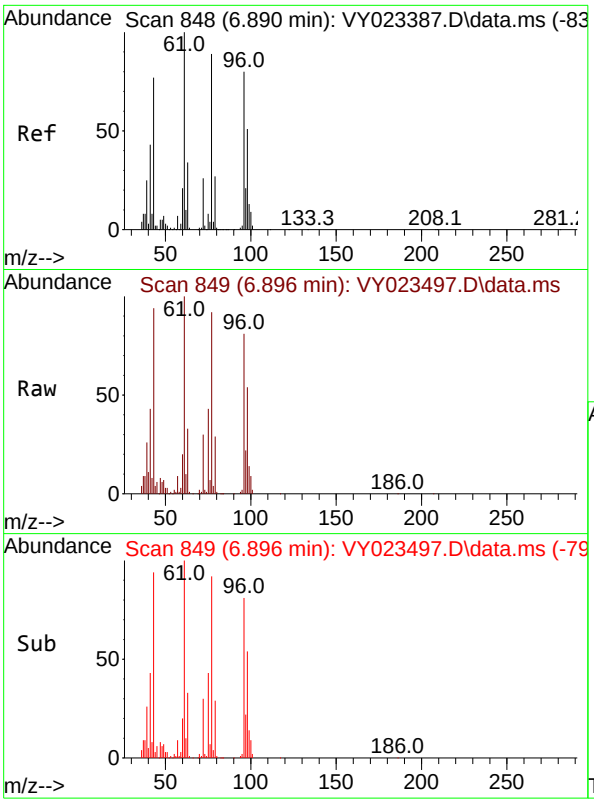


#26
2,2-Dichloropropane
Concen: 21.293 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 77 Resp: 163000

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.1	36.3





#27
cis-1,2-Dichloroethene
Concen: 20.372 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

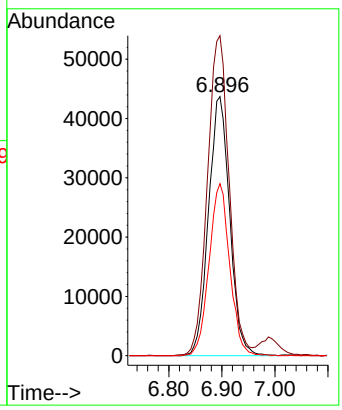
Tgt Ion: 96 Resp: 12104

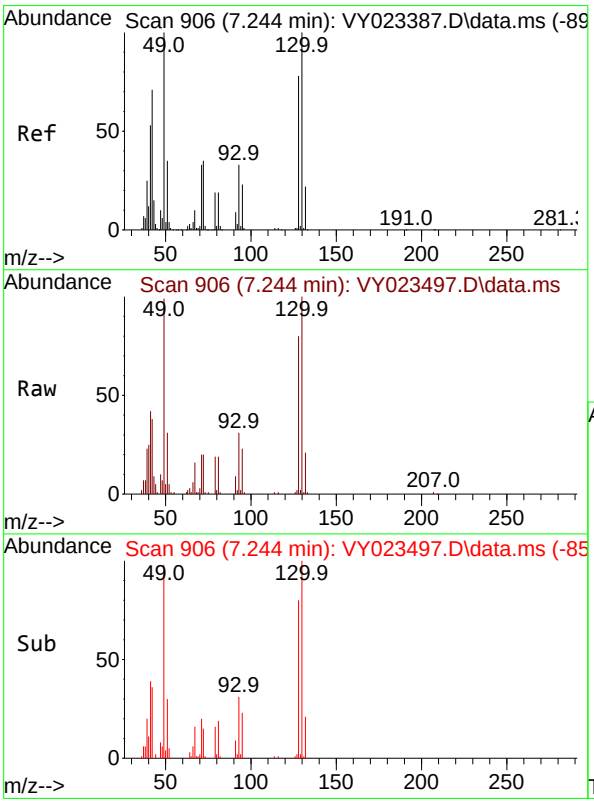
Ion	Ratio	Lower	Upper
96	100		
61	126.9	0.0	258.2
98	64.9	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

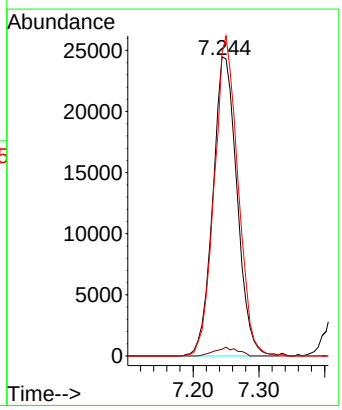


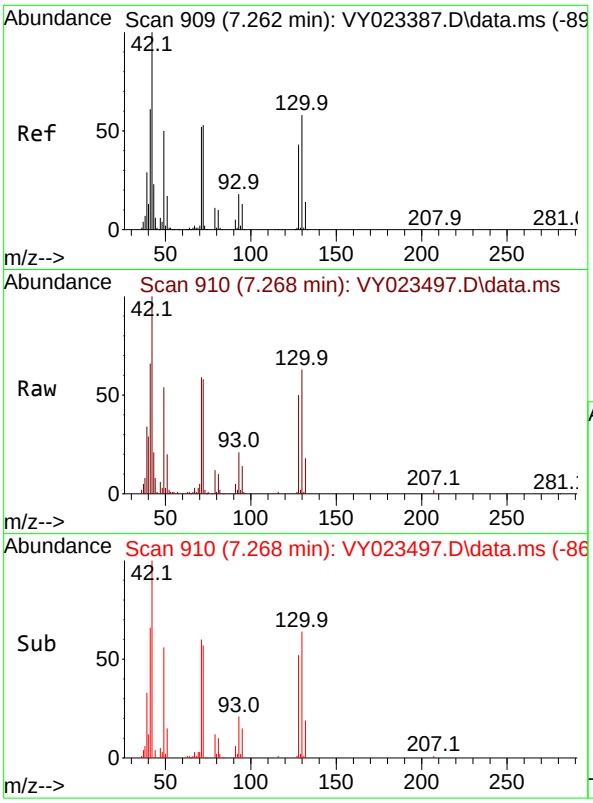


#28
Bromochloromethane
Concen: 20.115 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 49 Resp: 62645

Ion	Ratio	Lower	Upper
49	100		
129	2.7	0.0	5.6
130	104.8	81.9	122.9

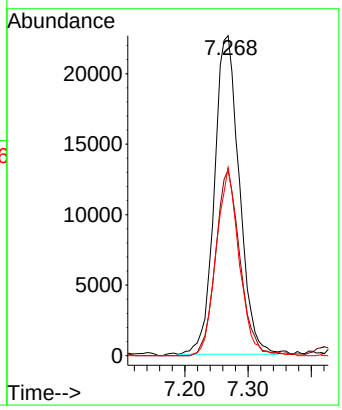




#29
Tetrahydrofuran
Concen: 85.382 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 42 Resp: 6163

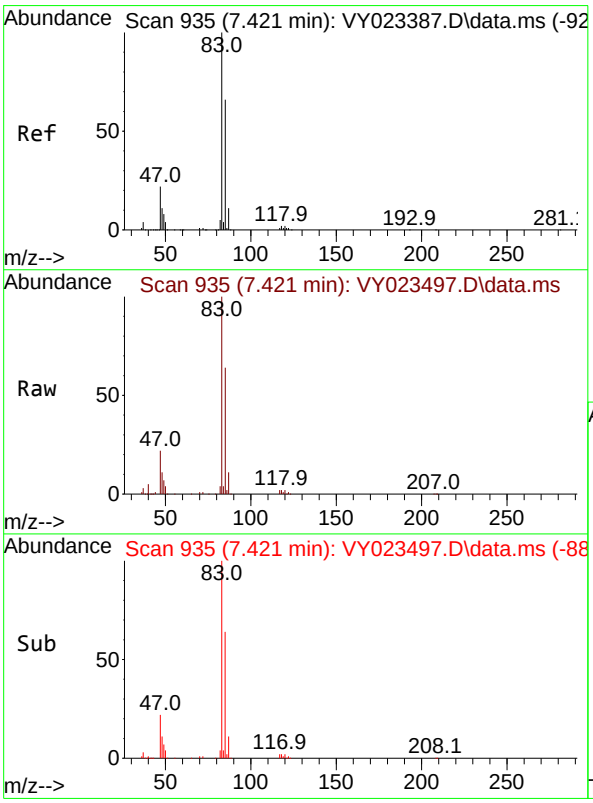
Ion	Ratio	Lower	Upper
42	100		
72	57.3	43.0	64.6
71	54.8	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

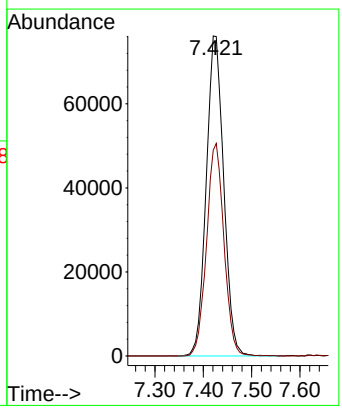
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

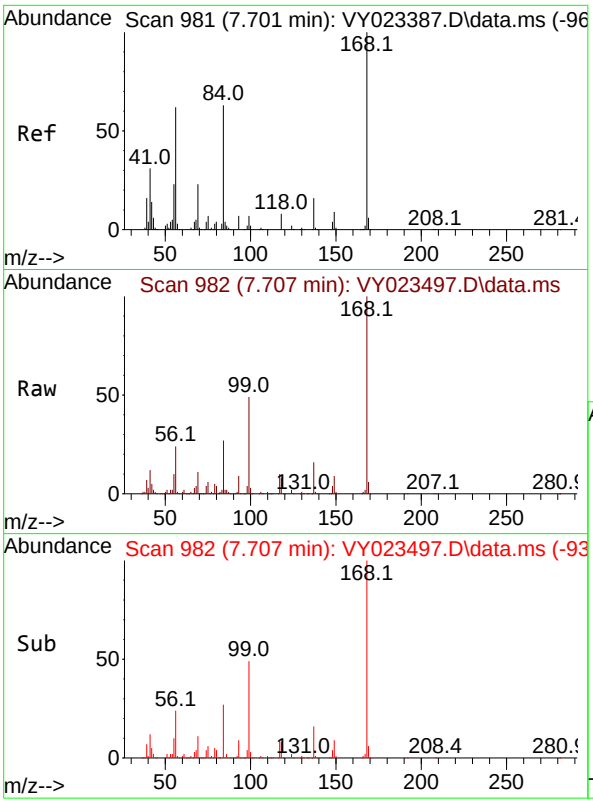


#30
Chloroform
Concen: 20.827 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 83 Resp: 190902

Ion	Ratio	Lower	Upper
83	100		
85	64.3	52.5	78.7

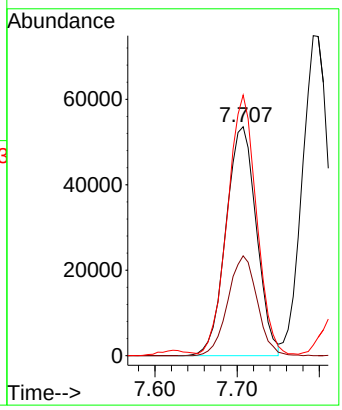




#31
Cyclohexane
Concen: 18.993 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 56 Resp: 13837

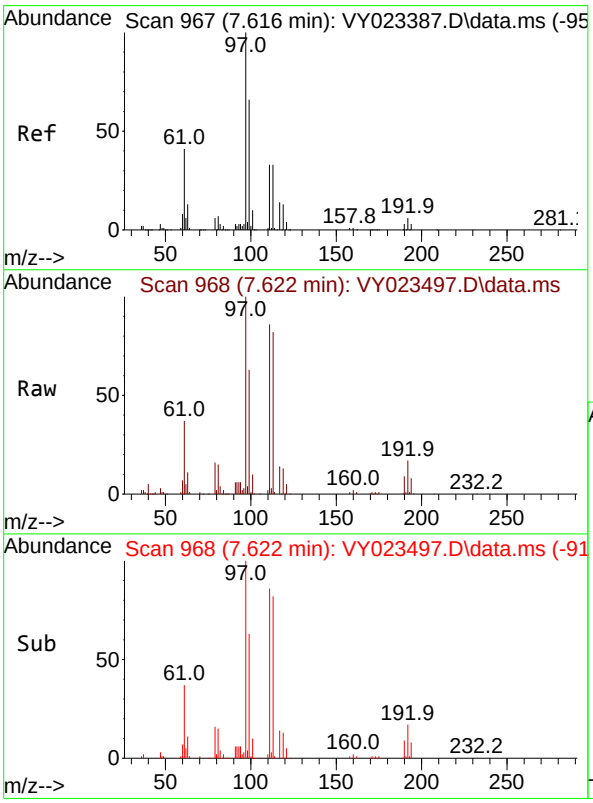
Ion	Ratio	Lower	Upper
56	100		
69	43.6	30.0	45.0
84	111.6	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

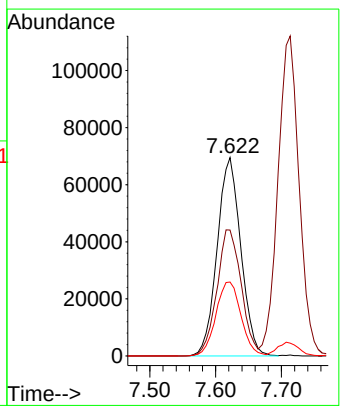
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

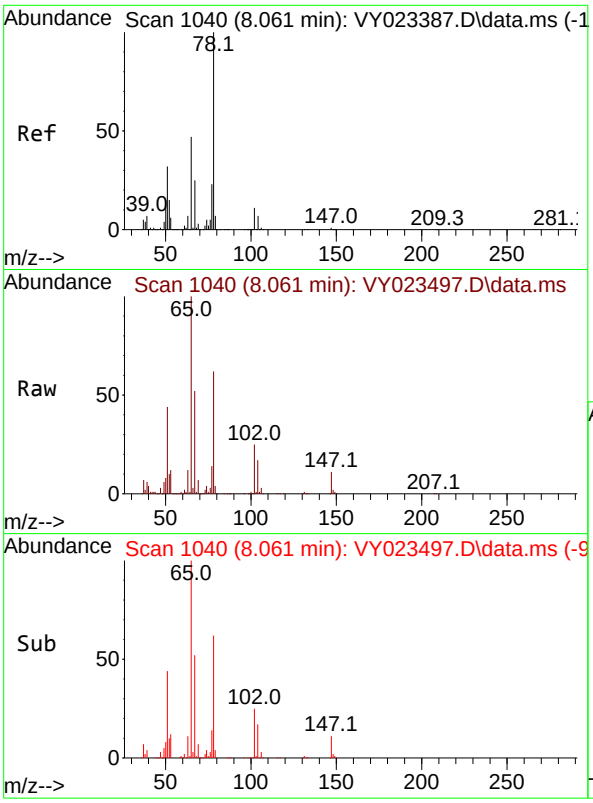


#32
1,1,1-Trichloroethane
Concen: 20.918 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 97 Resp: 174243

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.4	77.2
61	39.5	31.9	47.9

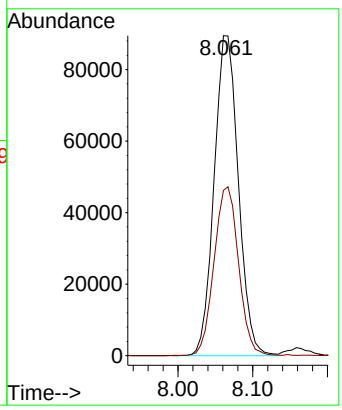




#33
1,2-Dichloroethane-d4
Concen: 46.085 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 65 Resp: 20183

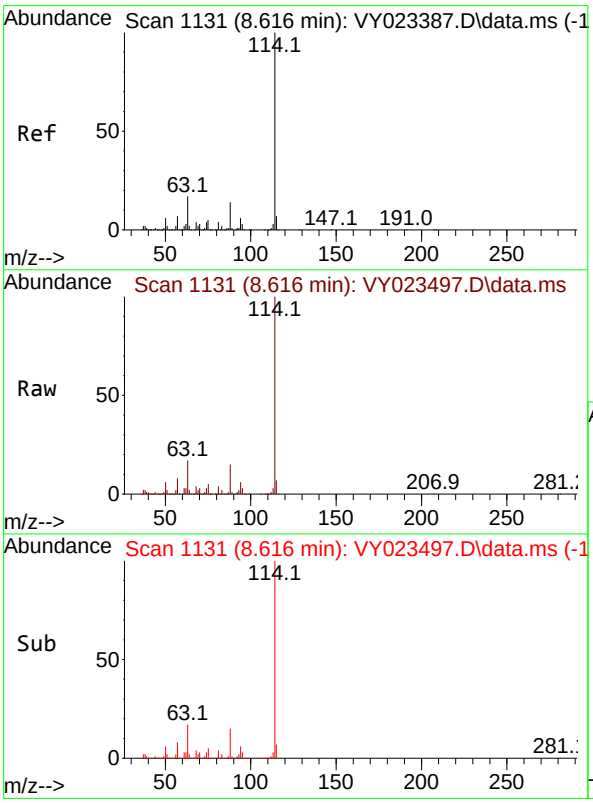
Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

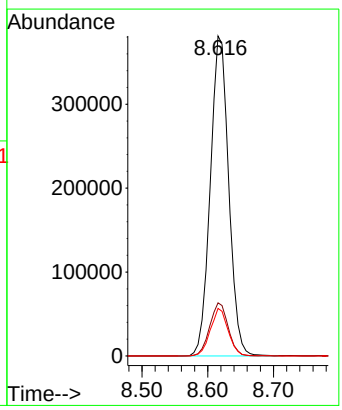
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

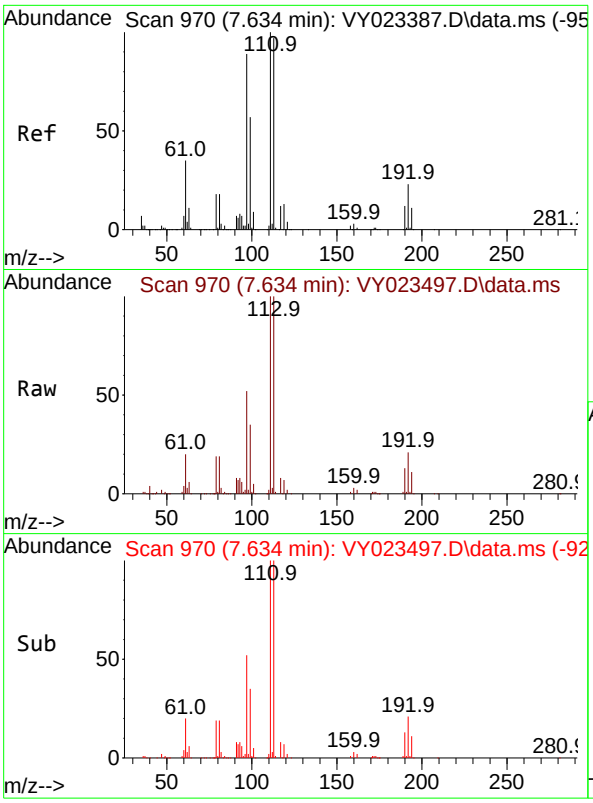


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:114 Resp: 742947

Ion	Ratio	Lower	Upper
114	100		
63	16.6	0.0	34.2
88	14.8	0.0	28.4

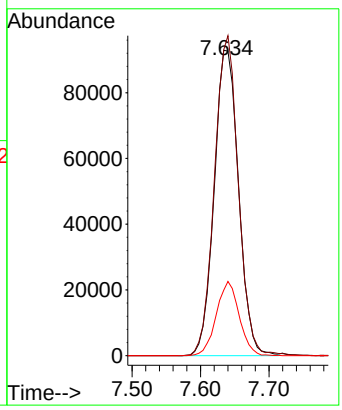




#35
Dibromofluoromethane
Concen: 50.346 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

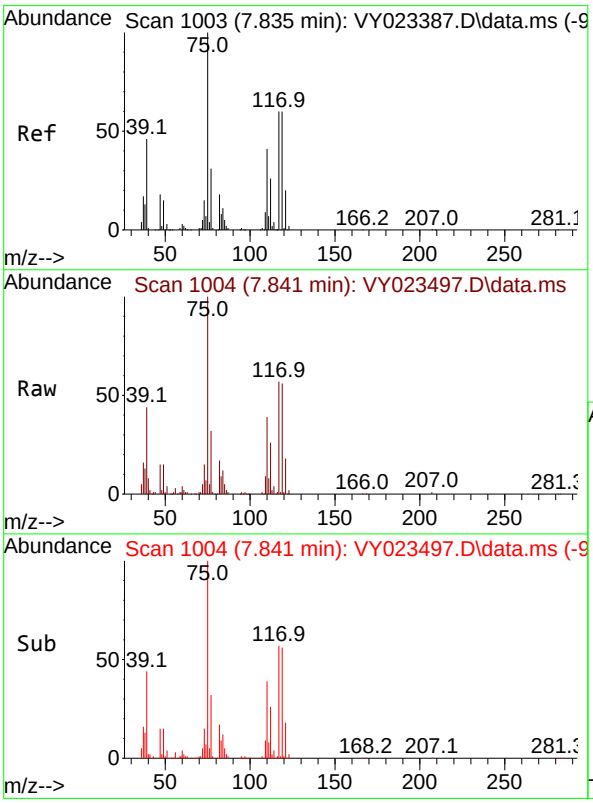
Tgt Ion:113 Resp: 22983

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	22.8	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

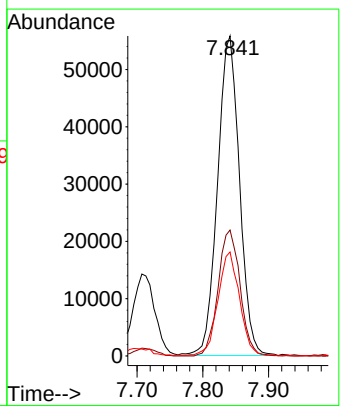
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

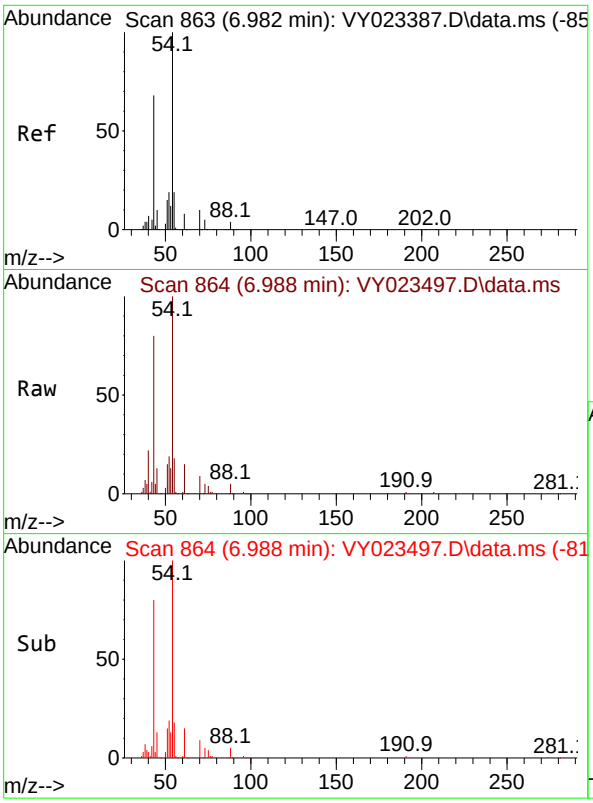


#36
1,1-Dichloropropene
Concen: 21.466 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 75 Resp: 129736

Ion	Ratio	Lower	Upper
75	100		
110	39.5	19.9	59.7
77	32.2	25.0	37.6

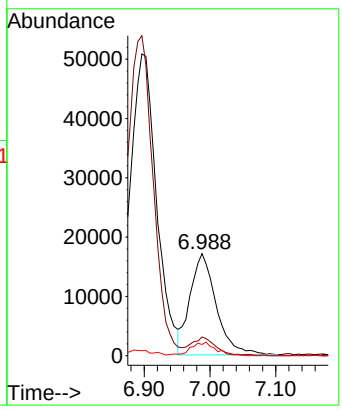




#37
Ethyl Acetate
Concen: 19.670 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 43 Resp: 4709

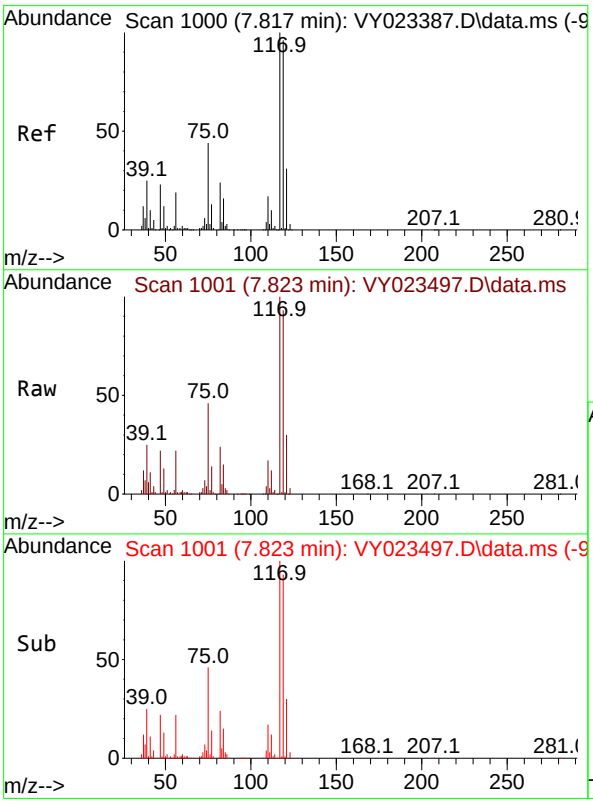
Ion	Ratio	Lower	Upper
43	100		
61	17.7	11.8	17.8
70	12.4	10.5	15.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

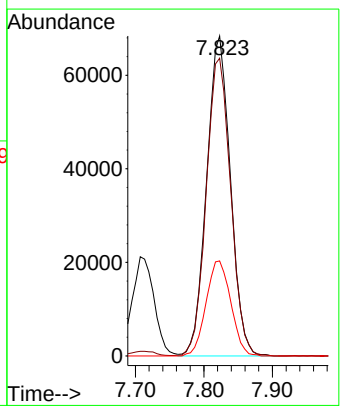
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

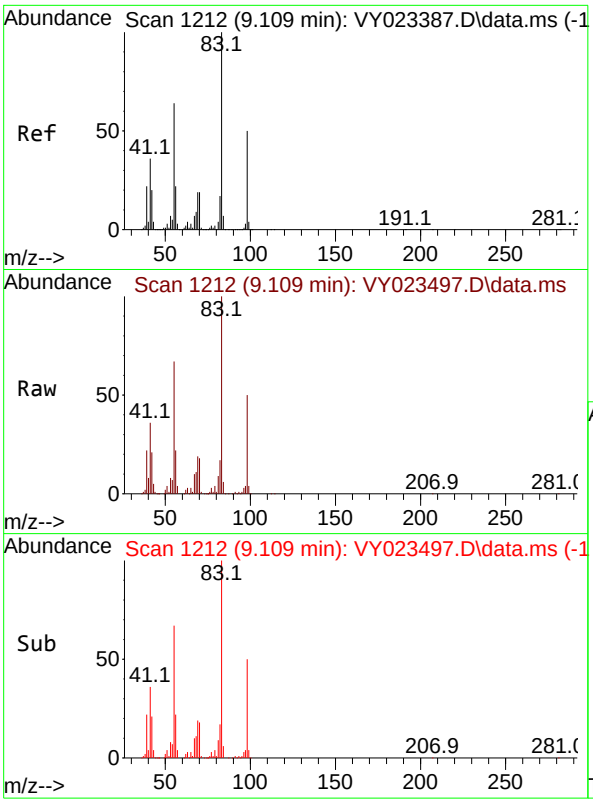


#38
Carbon Tetrachloride
Concen: 22.530 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:117 Resp: 165108

Ion	Ratio	Lower	Upper
117	100		
119	93.0	76.8	115.2
121	29.7	24.5	36.7

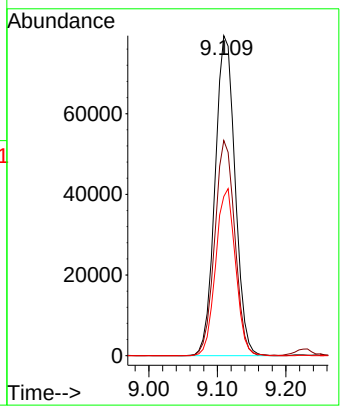




#39
Methylcyclohexane
Concen: 20.389 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

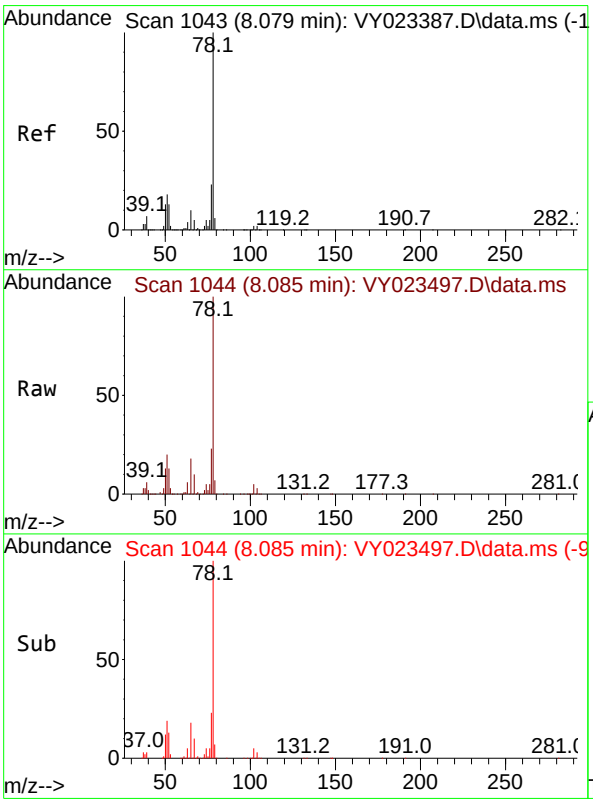
Tgt Ion: 83 Resp: 16044

Ion	Ratio	Lower	Upper
83	100		
55	67.3	51.4	77.2
98	49.7	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

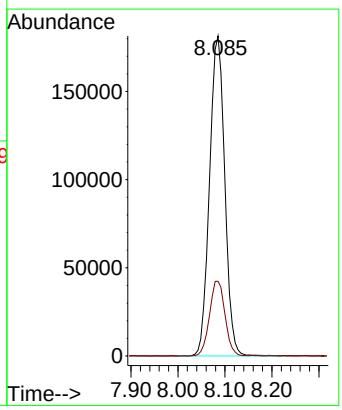
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

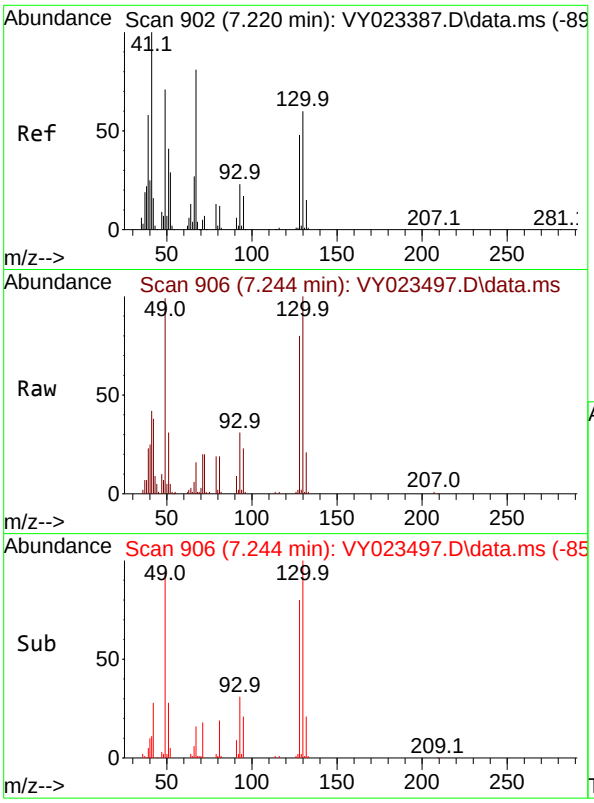


#40
Benzene
Concen: 21.281 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 78 Resp: 407322

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.3	27.5

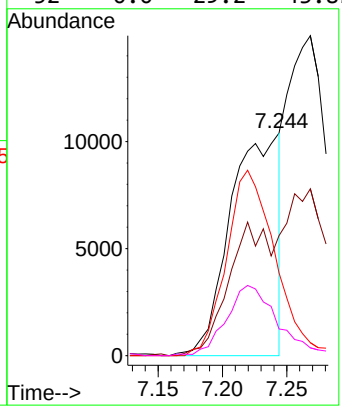




#41
Methacrylonitrile
Concen: 21.353 ug/l m
RT: 7.244 min Scan# 9
Delta R.T. 0.024 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

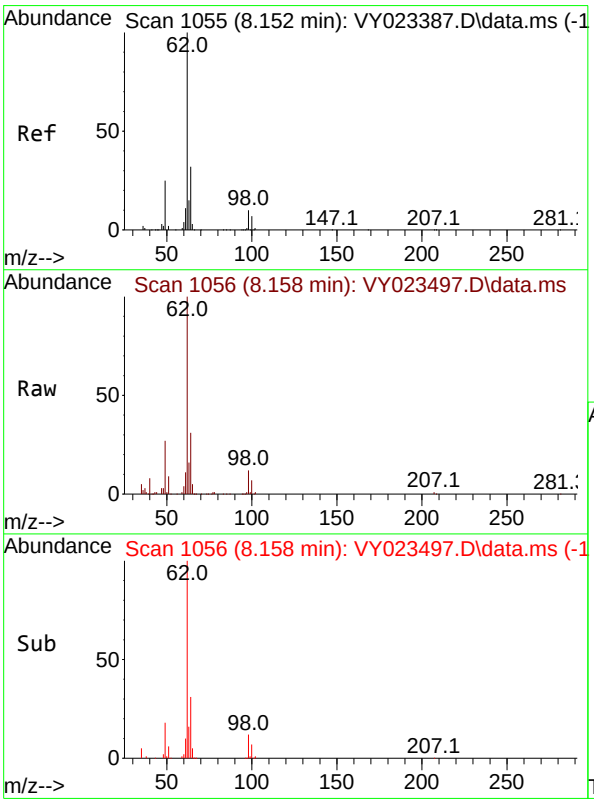
Tgt Ion: 41 Resp: 2765

Ion	Ratio	Lower	Upper
41	100		
39	74.8	52.2	78.4
67	0.0	74.9	112.3#
52	0.0	29.2	43.8#



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

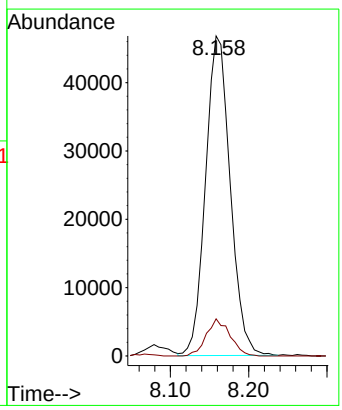
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

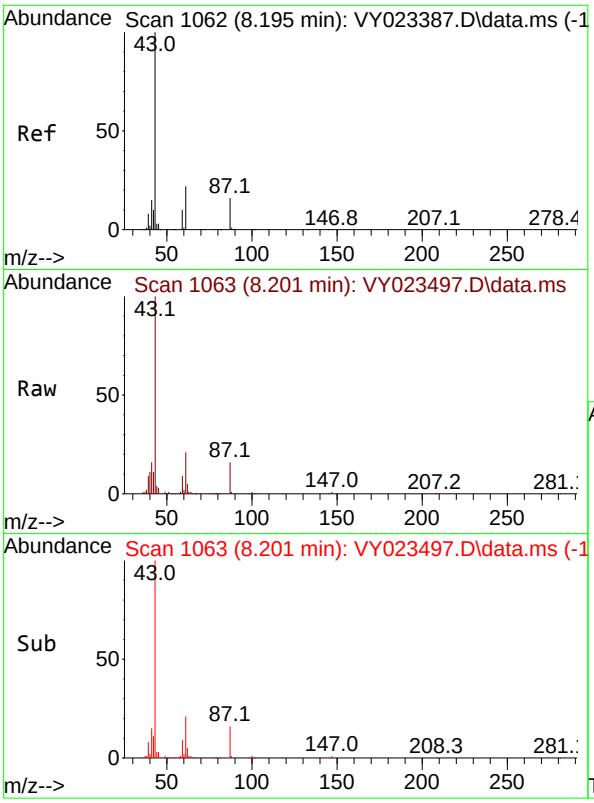


#42
1,2-Dichloroethane
Concen: 20.715 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 62 Resp: 102253

Ion	Ratio	Lower	Upper
62	100		
98	11.1	0.0	21.6

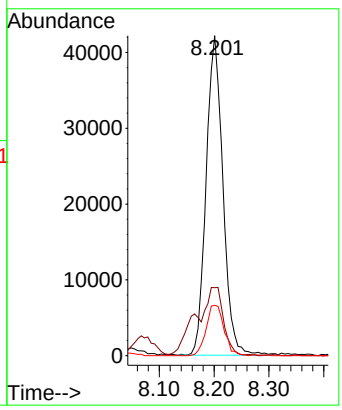




#43
Isopropyl Acetate
Concen: 18.794 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

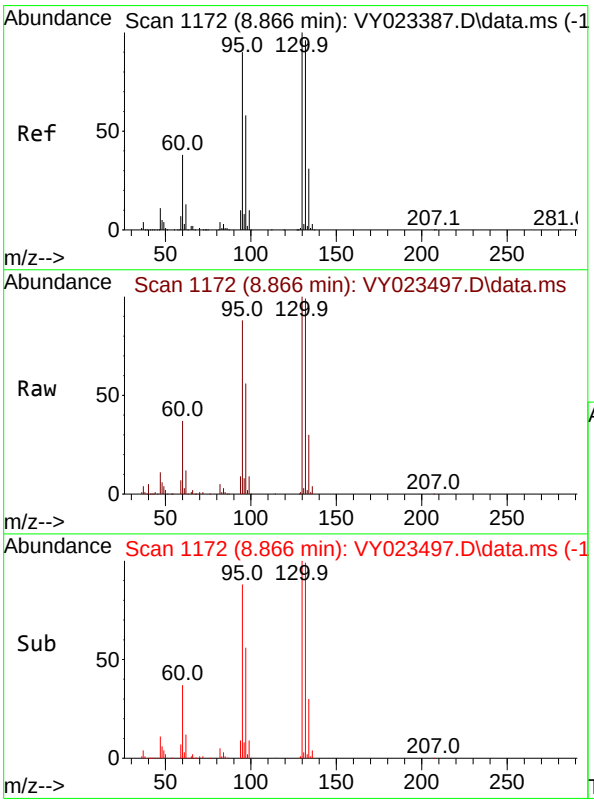
Tgt Ion: 43 Resp: 8972

Ion	Ratio	Lower	Upper
43	100		
61	21.8	18.1	27.1
87	16.8	13.5	20.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

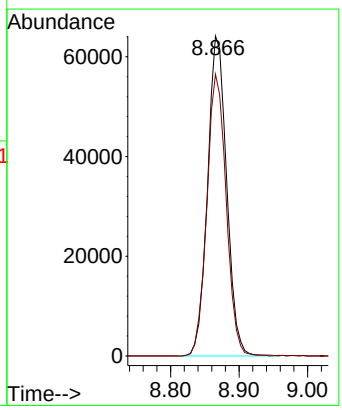
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

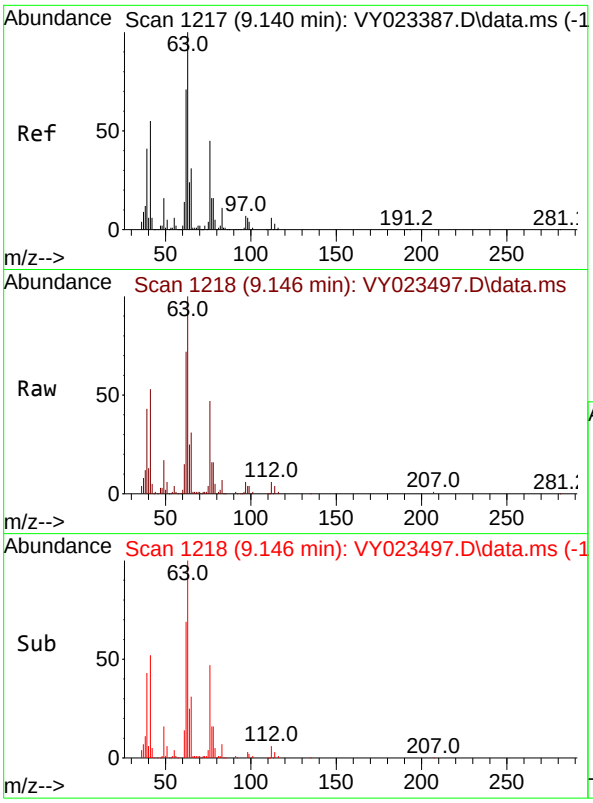


#44
Trichloroethene
Concen: 22.163 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:130 Resp: 124158

Ion	Ratio	Lower	Upper
130	100		
95	88.0	0.0	180.6

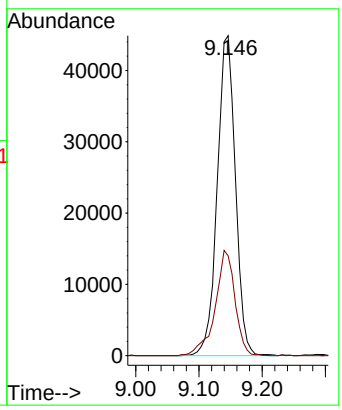




#45
1,2-Dichloropropane
Concen: 21.148 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

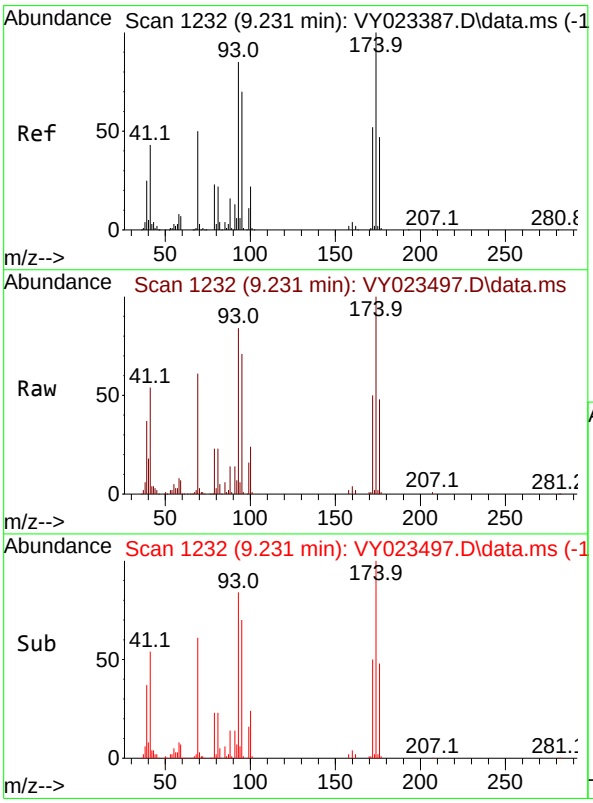
Tgt Ion: 63 Resp: 8940

Ion	Ratio	Lower	Upper
63	100		
65	31.2	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

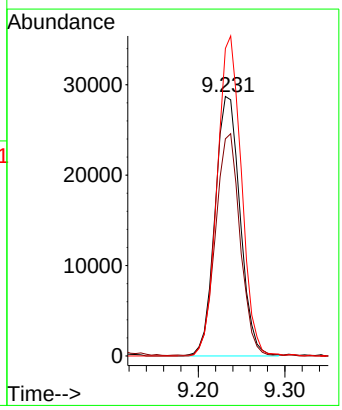
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

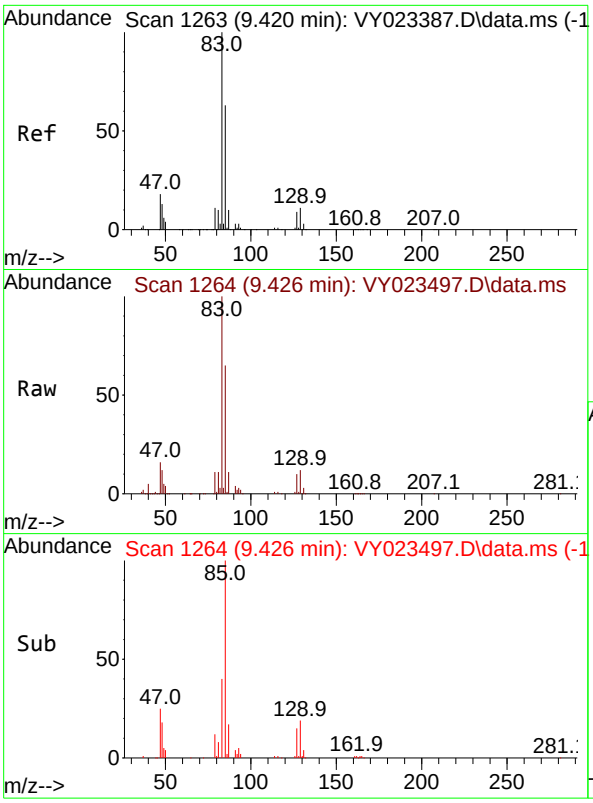


#46
Dibromomethane
Concen: 21.622 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 93 Resp: 57801

Ion	Ratio	Lower	Upper
93	100		
95	84.5	65.4	98.0
174	119.1	92.9	139.3

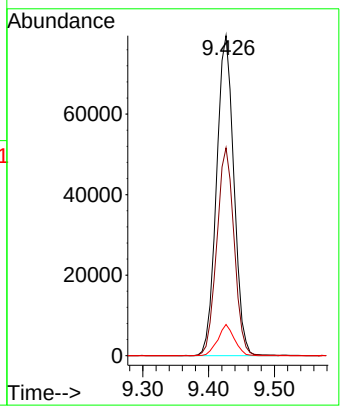




#47
Bromodichloromethane
Concen: 21.699 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

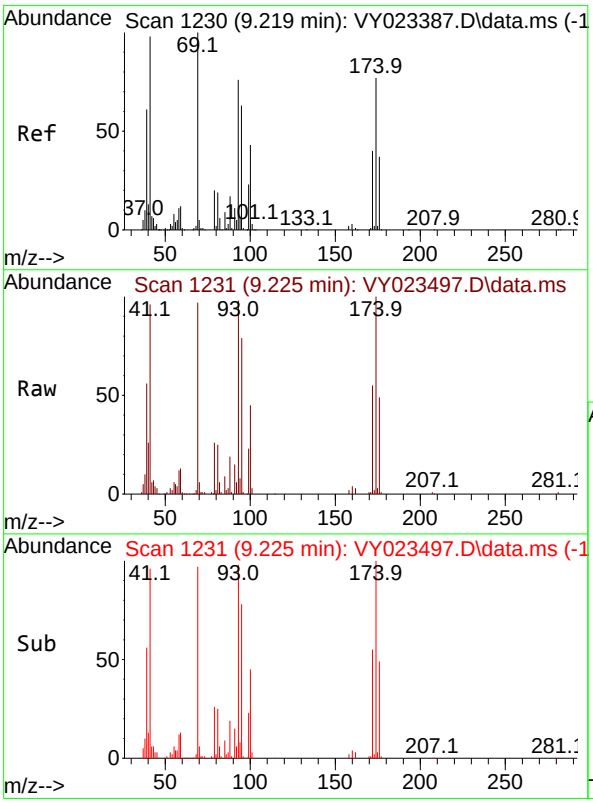
Tgt Ion: 83 Resp: 14608

Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.8	76.2
127	9.8	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

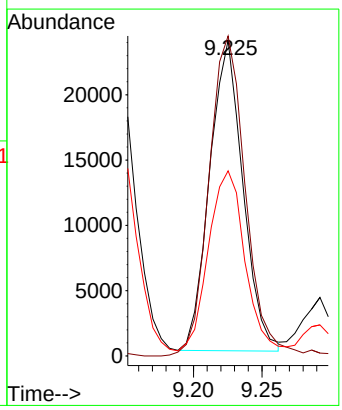
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

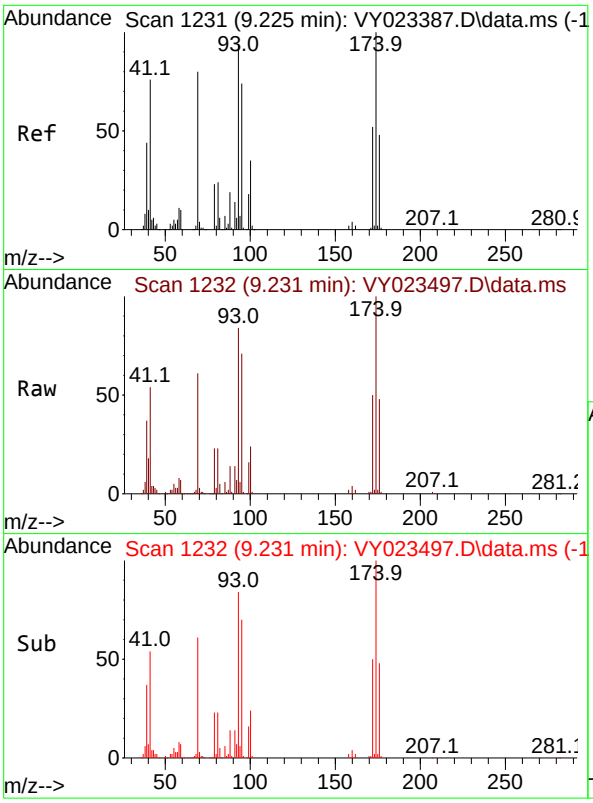


#48
Methyl methacrylate
Concen: 17.919 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 41 Resp: 40192

Ion	Ratio	Lower	Upper
41	100		
69	113.5	81.0	121.4
39	63.8	48.2	72.4





#49
1,4-Dioxane
Concen: 374.851 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

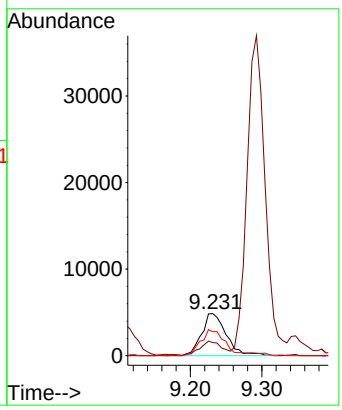
Tgt Ion: 88 Resp: 1161

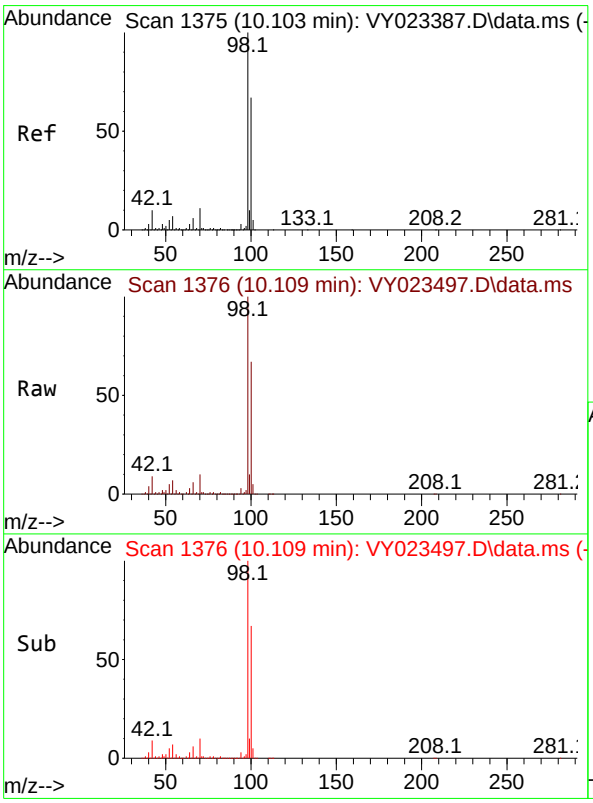
Ion	Ratio	Lower	Upper
88	100		
43	29.3	21.8	32.8
58	65.3	46.8	70.2

Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

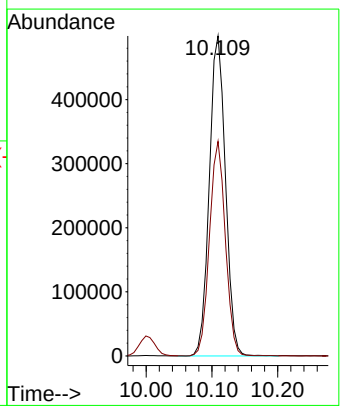


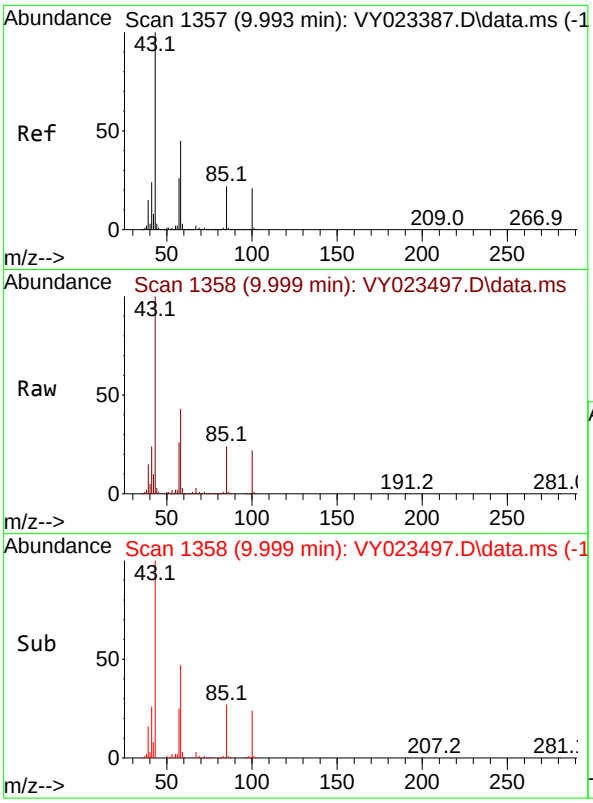


#50
Toluene-d8
Concen: 50.206 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 98 Resp: 853532

Ion	Ratio	Lower	Upper
98	100		
100	66.0	53.0	79.4

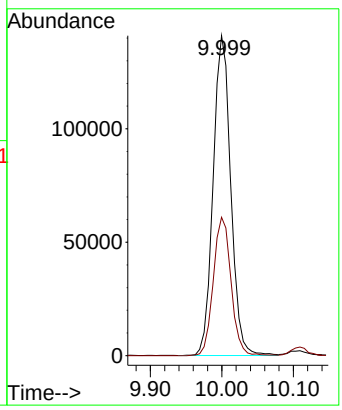




#51
4-Methyl-2-Pentanone
Concen: 97.770 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

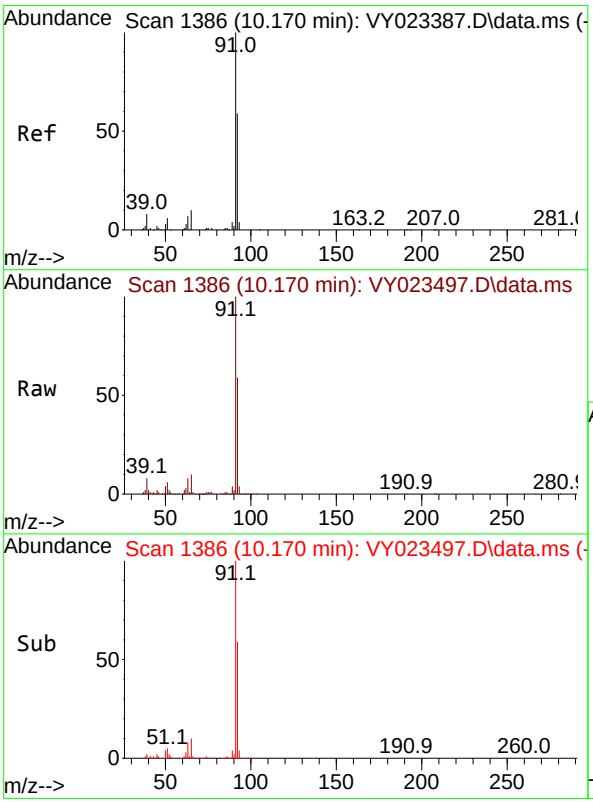
Tgt Ion: 43 Resp: 24117

Ion	Ratio	Lower	Upper
43	100		
58	43.6	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

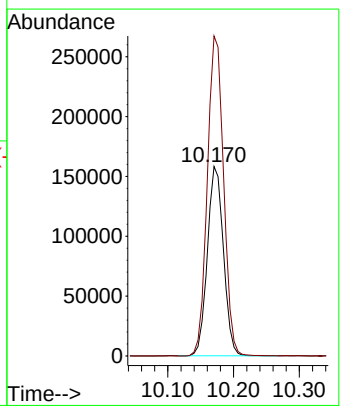
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

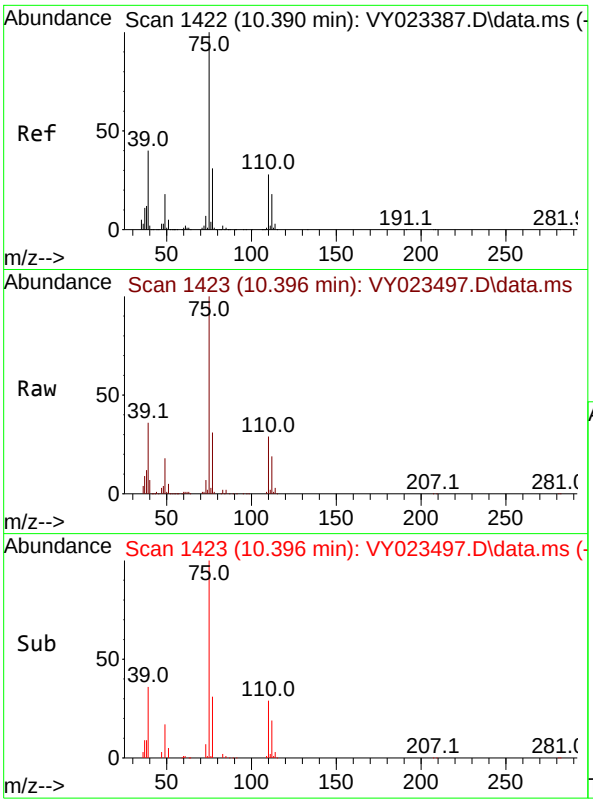


#52
Toluene
Concen: 21.667 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 92 Resp: 269261

Ion	Ratio	Lower	Upper
92	100		
91	171.2	136.4	204.6

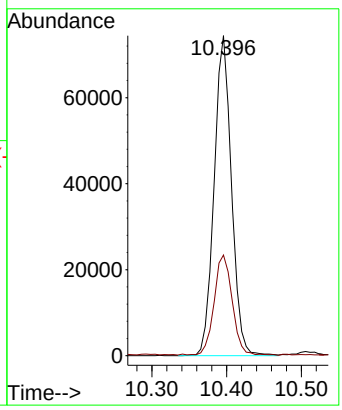




#53
t-1,3-Dichloropropene
Concen: 20.479 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 75 Resp: 11988

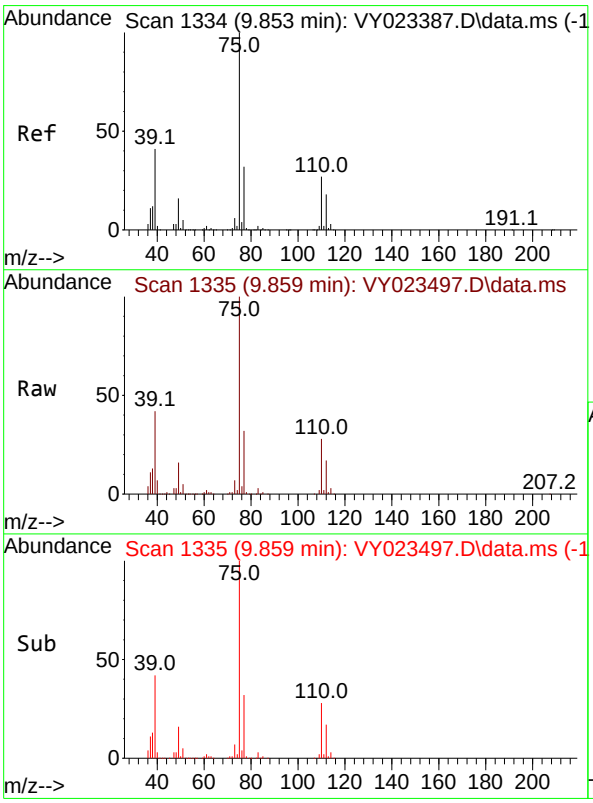
Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

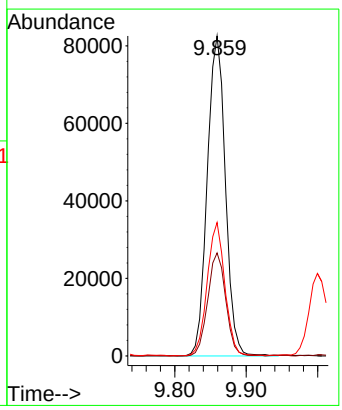
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

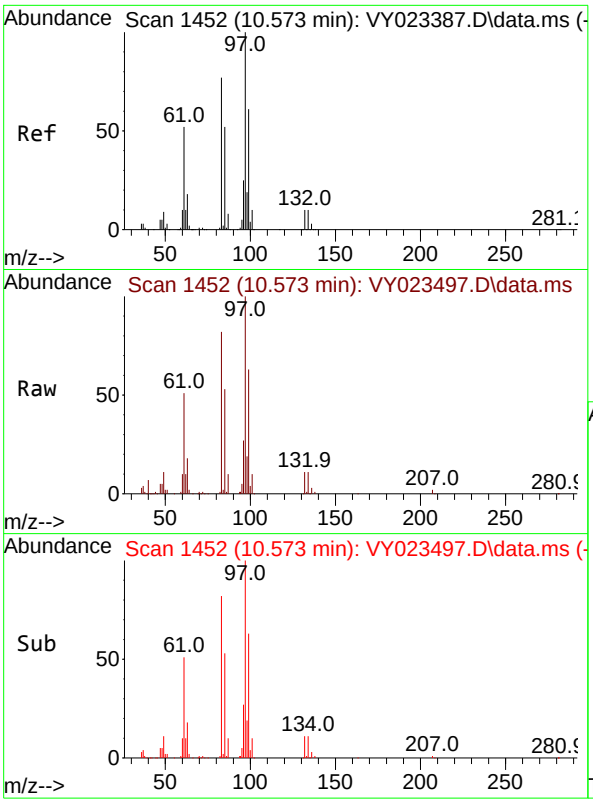


#54
cis-1,3-Dichloropropene
Concen: 21.011 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 75 Resp: 145166

Ion	Ratio	Lower	Upper
75	100		
77	32.2	25.4	38.0
39	41.6	32.8	49.2

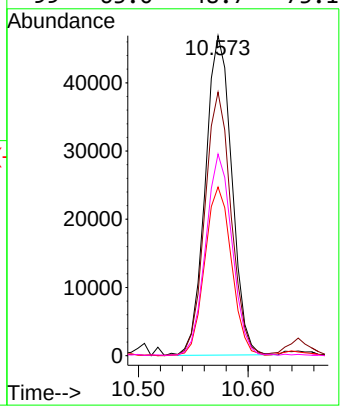




#55
1,1,2-Trichloroethane
Concen: 21.881 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 97 Resp: 7865

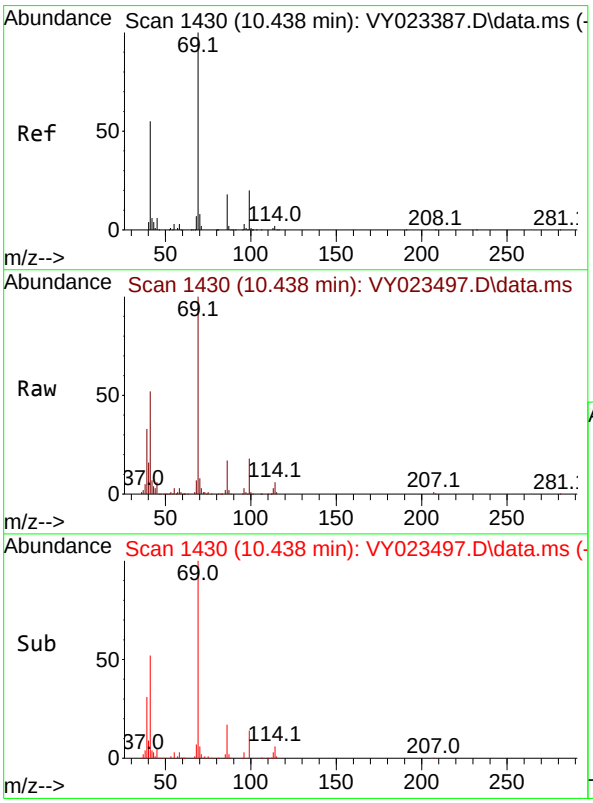
Ion	Ratio	Lower	Upper
97	100		
83	82.4	61.8	92.6
85	52.4	41.3	61.9
99	63.0	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

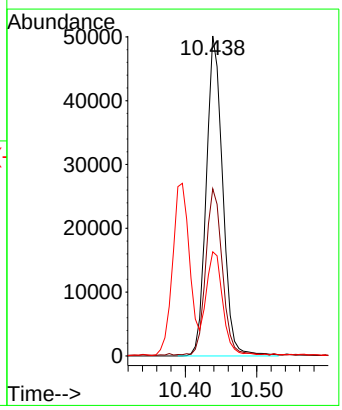
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

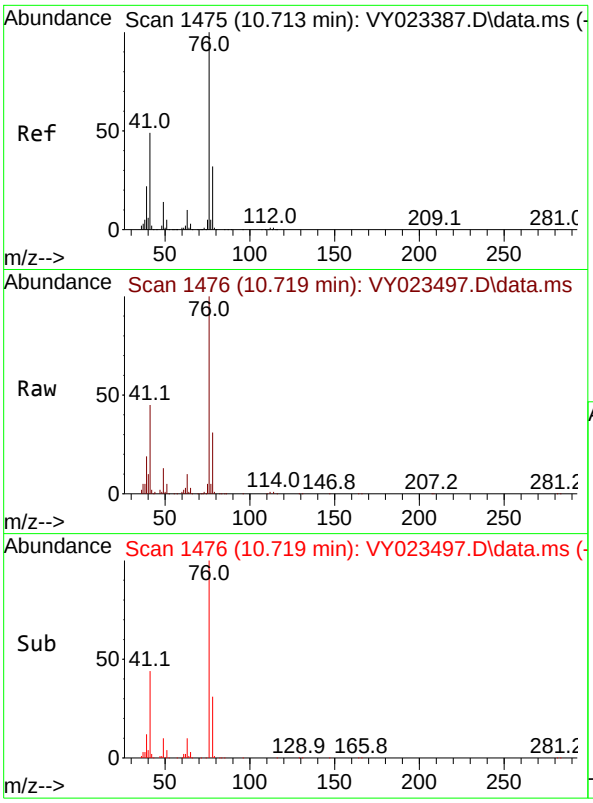


#56
Ethyl methacrylate
Concen: 19.290 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 69 Resp: 79990

Ion	Ratio	Lower	Upper
69	100		
41	52.4	44.6	67.0
39	31.7	27.0	40.4

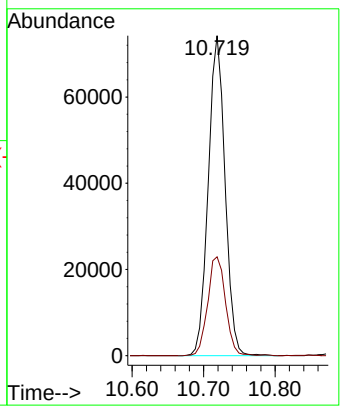




#57
1,3-Dichloropropane
Concen: 21.246 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

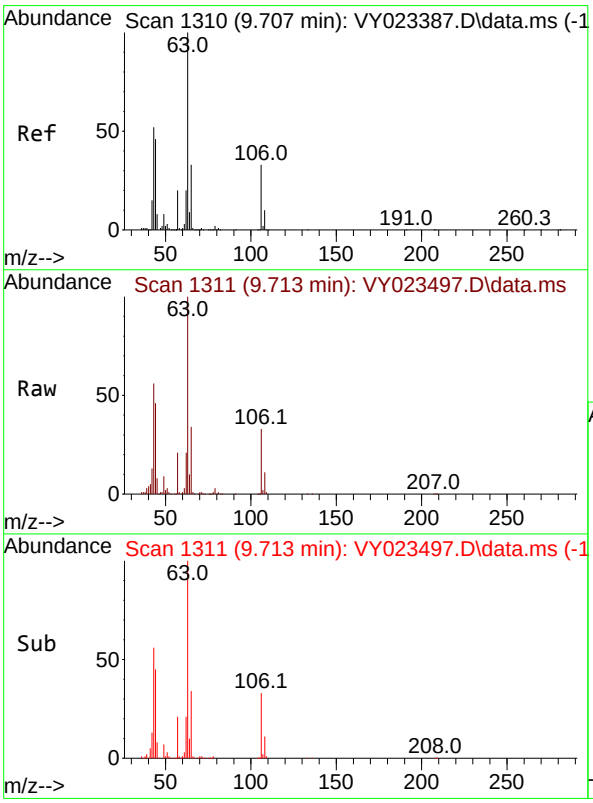
Tgt Ion: 76 Resp: 12102

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

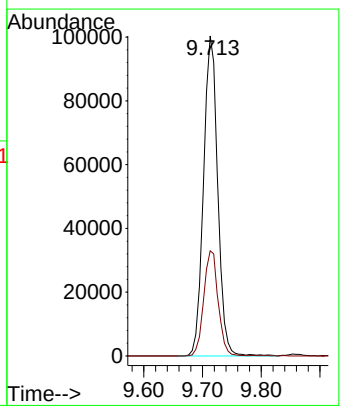
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

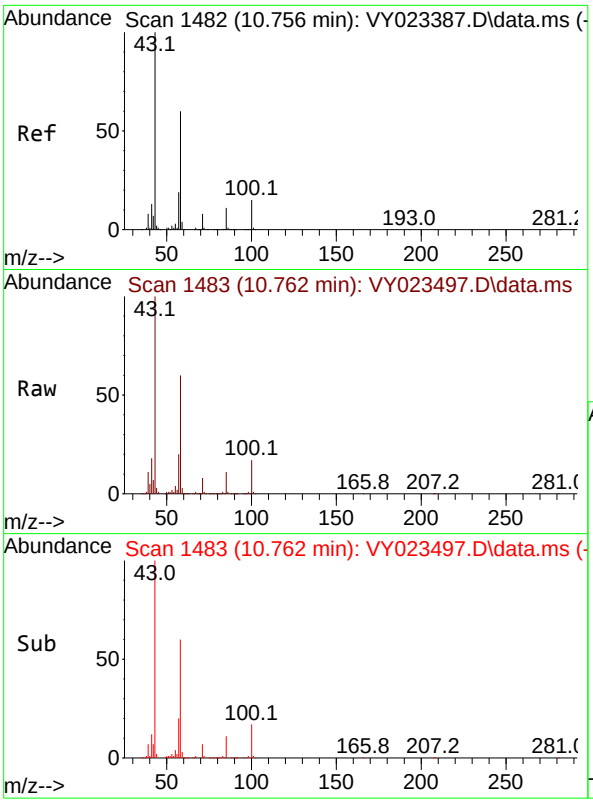


#58
2-Chloroethyl Vinyl ether
Concen: 90.858 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 63 Resp: 168775

Ion	Ratio	Lower	Upper
63	100		
106	33.2	26.6	39.8

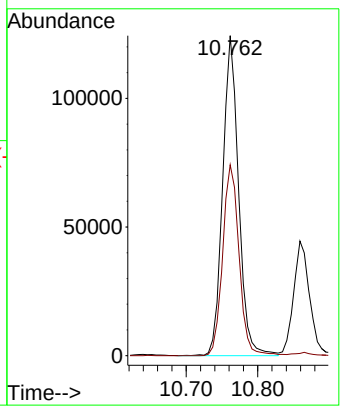




#59
2-Hexanone
Concen: 109.161 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 43 Resp: 19243

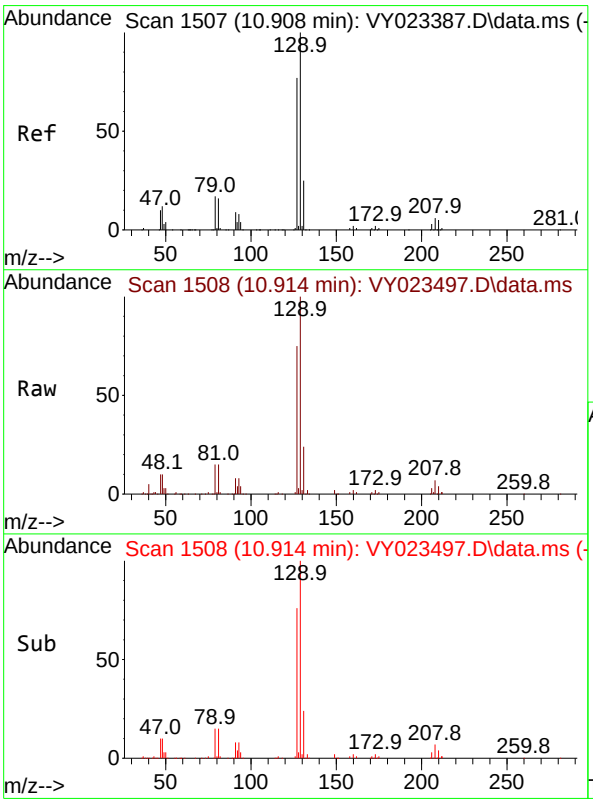
Ion	Ratio	Lower	Upper
43	100		
58	61.4	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

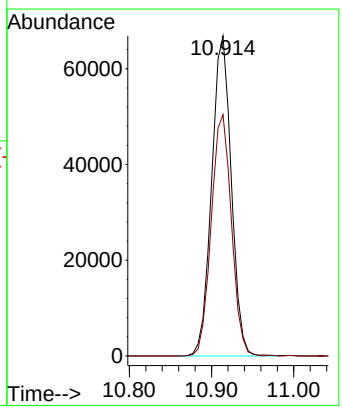
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

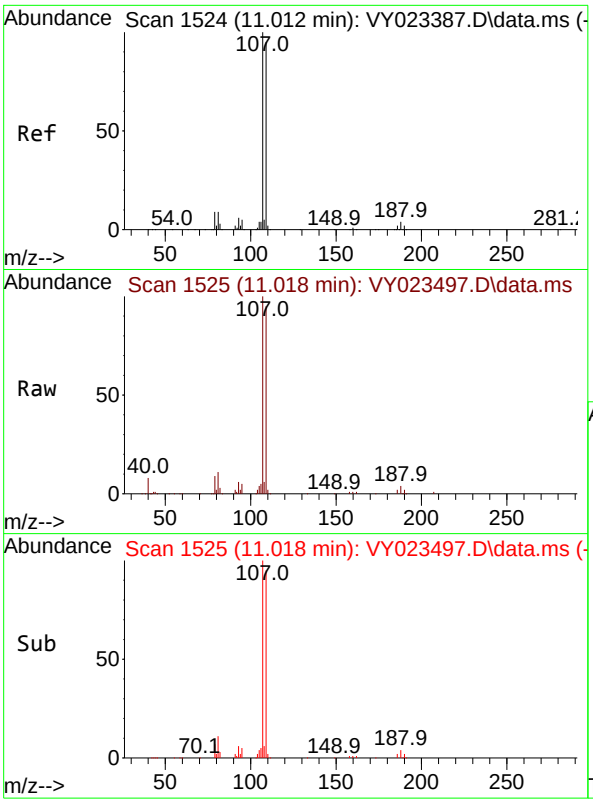


#60
Dibromochloromethane
Concen: 21.984 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:129 Resp: 110798

Ion	Ratio	Lower	Upper
129	100		
127	77.5	38.6	115.7

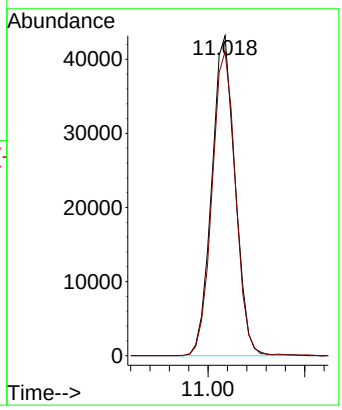




#61
1,2-Dibromoethane
Concen: 21.075 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

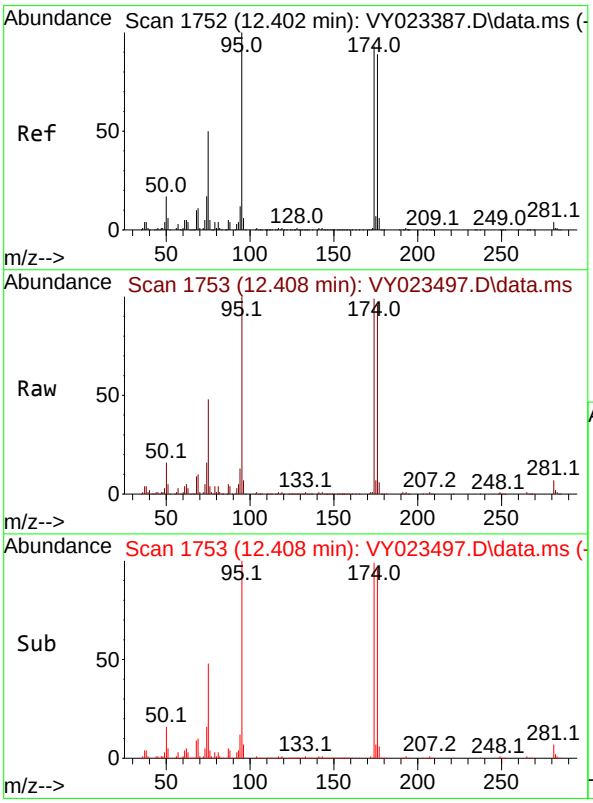
Tgt Ion:107 Resp: 7225

Ion	Ratio	Lower	Upper
107	100		
109	95.9	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

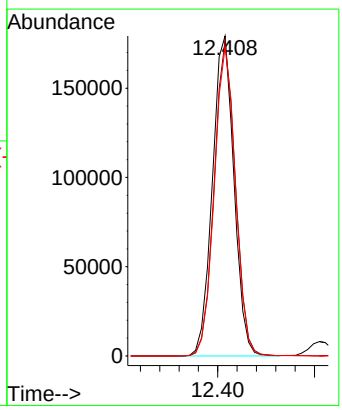
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

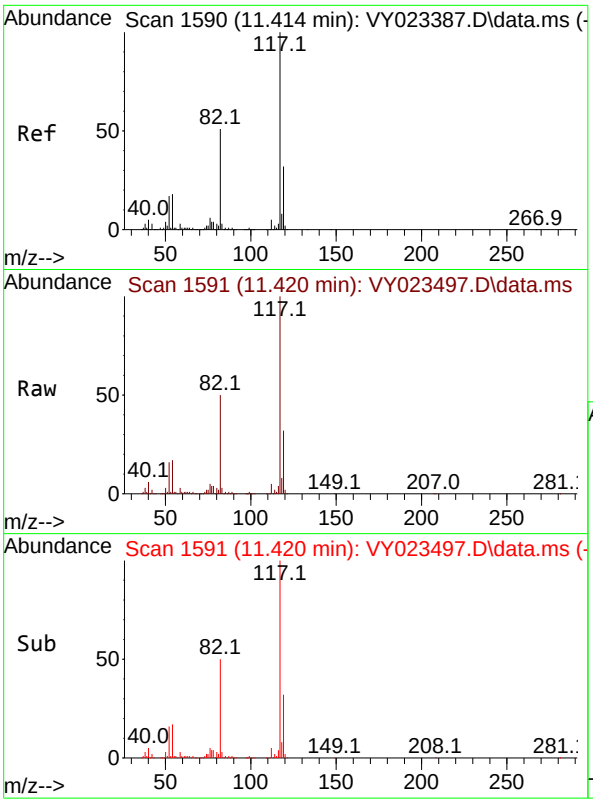


#62
4-Bromofluorobenzene
Concen: 49.372 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 95 Resp: 277115

Ion	Ratio	Lower	Upper
95	100		
174	96.8	0.0	192.8
176	94.8	0.0	187.6

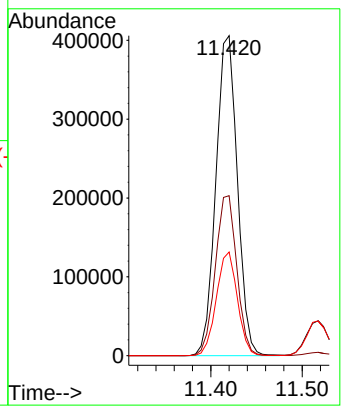




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

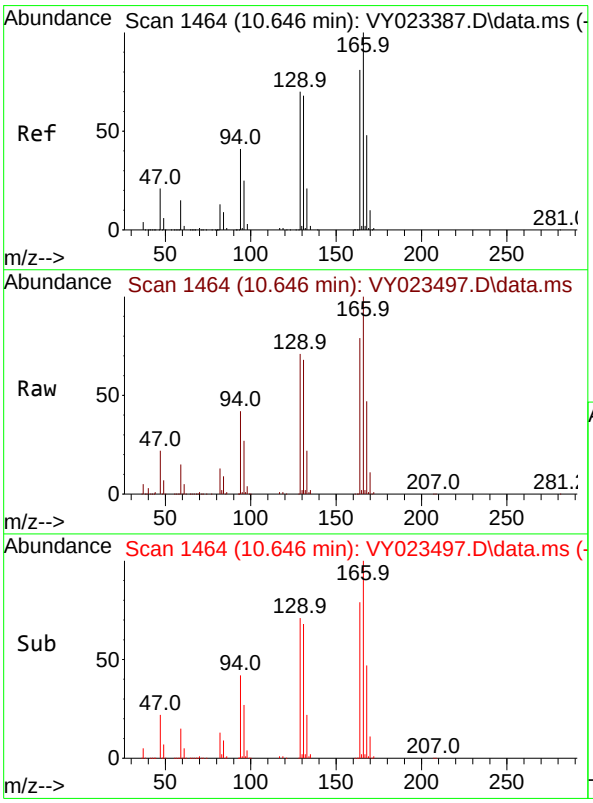
Tgt Ion:117 Resp: 66332

Ion	Ratio	Lower	Upper
117	100		
82	50.0	41.0	61.4
119	32.4	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

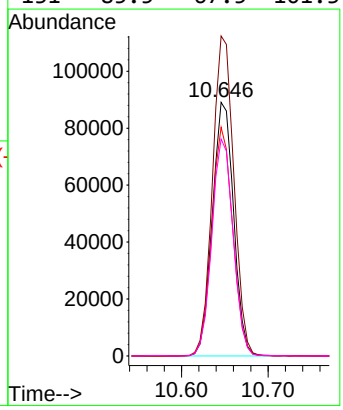
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

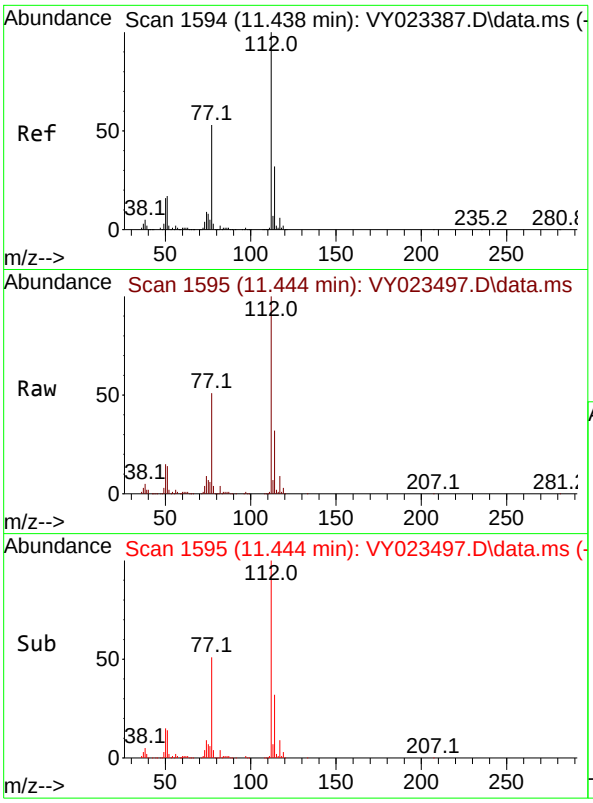


#64
Tetrachloroethene
Concen: 22.173 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:164 Resp: 151867

Ion	Ratio	Lower	Upper
164	100		
166	126.2	99.4	149.0
129	90.2	69.4	104.2
131	85.5	67.5	101.3

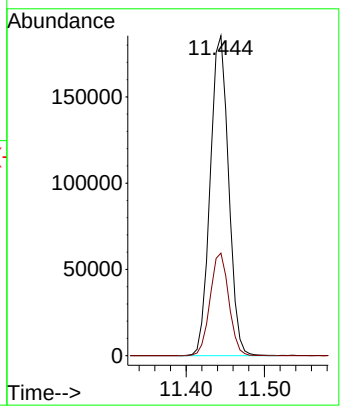




#65
Chlorobenzene
Concen: 20.967 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

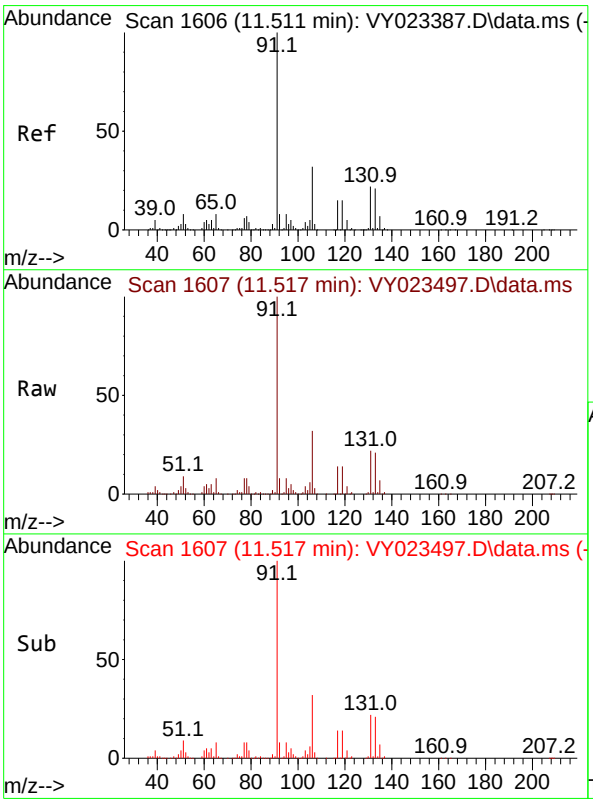
Tgt Ion:112 Resp: 30248

Ion	Ratio	Lower	Upper
112	100		
114	32.1	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

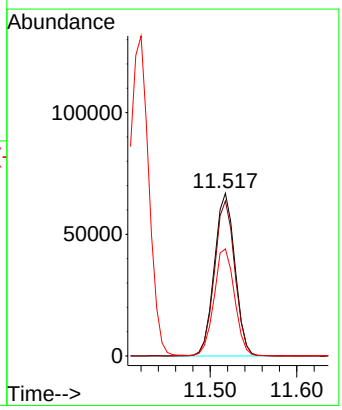
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

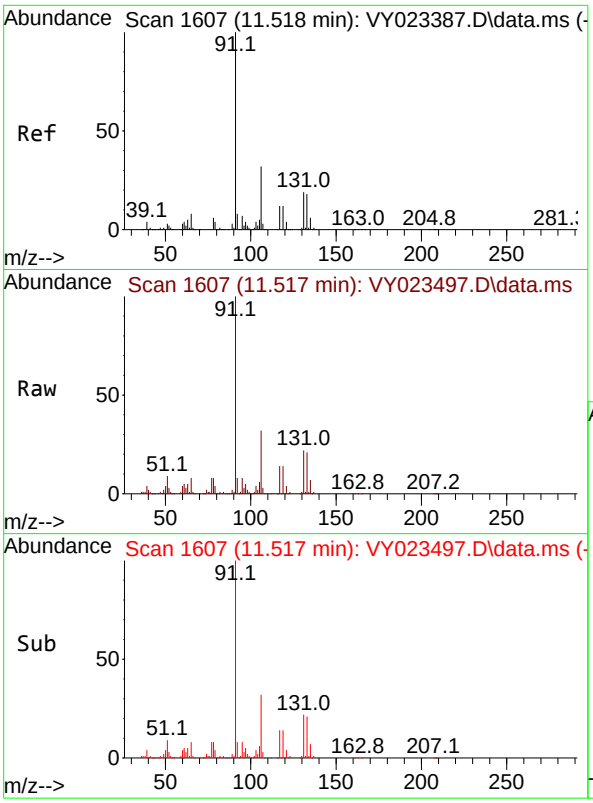


#66
1,1,1,2-Tetrachloroethane
Concen: 21.431 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:131 Resp: 110179

Ion	Ratio	Lower	Upper
131	100		
133	95.0	48.4	145.2
119	66.0	32.4	97.2

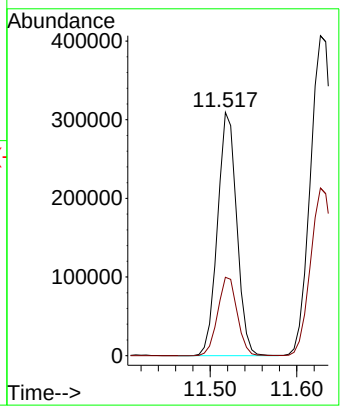




#67
Ethyl Benzene
Concen: 20.403 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 91 Resp: 47647

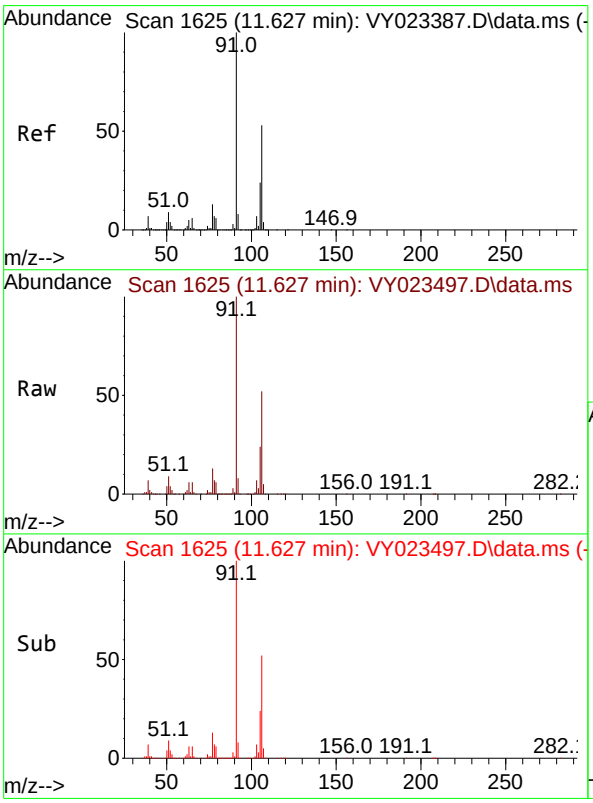
Ion	Ratio	Lower	Upper
91	100		
106	32.2	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

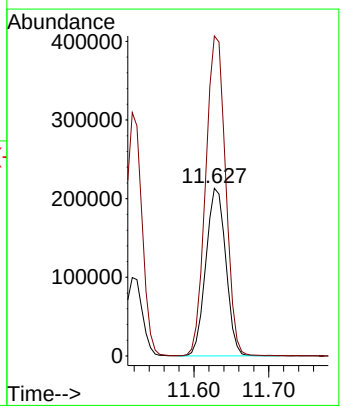
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

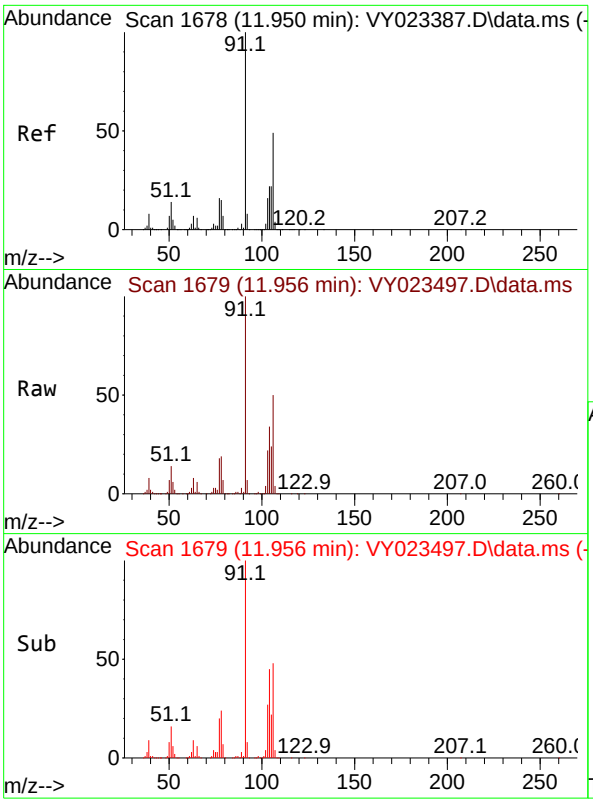


#68
m/p-Xylenes
Concen: 42.153 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:106 Resp: 394831

Ion	Ratio	Lower	Upper
106	100		
91	191.0	152.6	229.0

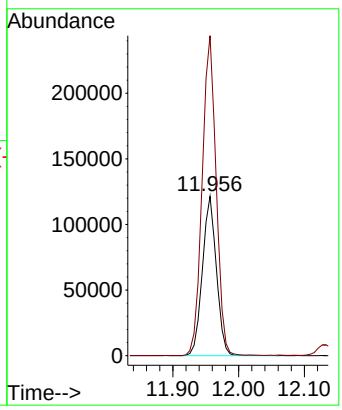




#69
o-Xylene
Concen: 20.491 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:106 Resp: 18002

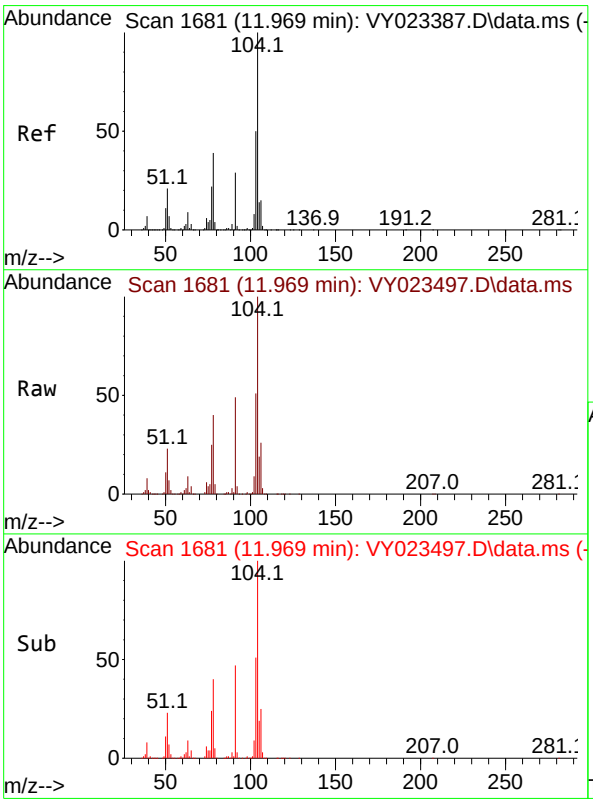
Ion	Ratio	Lower	Upper
106	100		
91	200.7	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

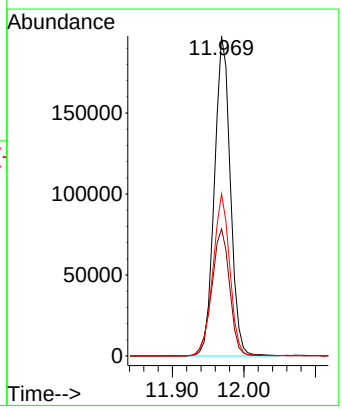
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

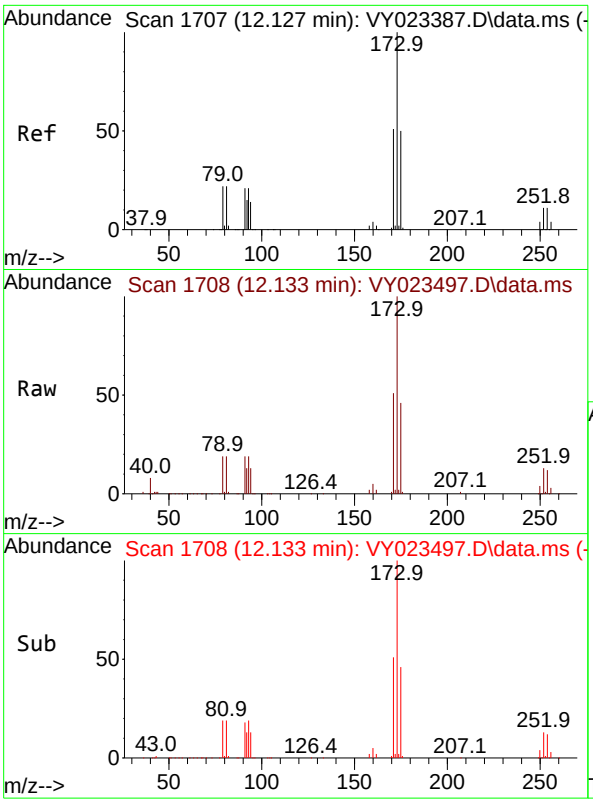


#70
Styrene
Concen: 21.154 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:104 Resp: 305623

Ion	Ratio	Lower	Upper
104	100		
78	44.6	36.1	54.1
103	53.7	43.2	64.8

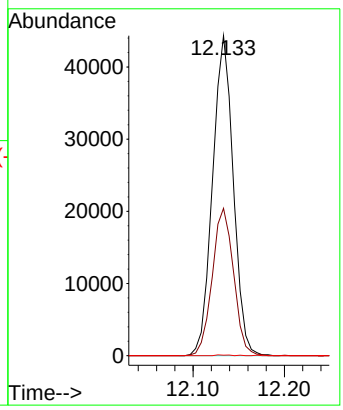




#71
Bromoform
Concen: 21.894 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

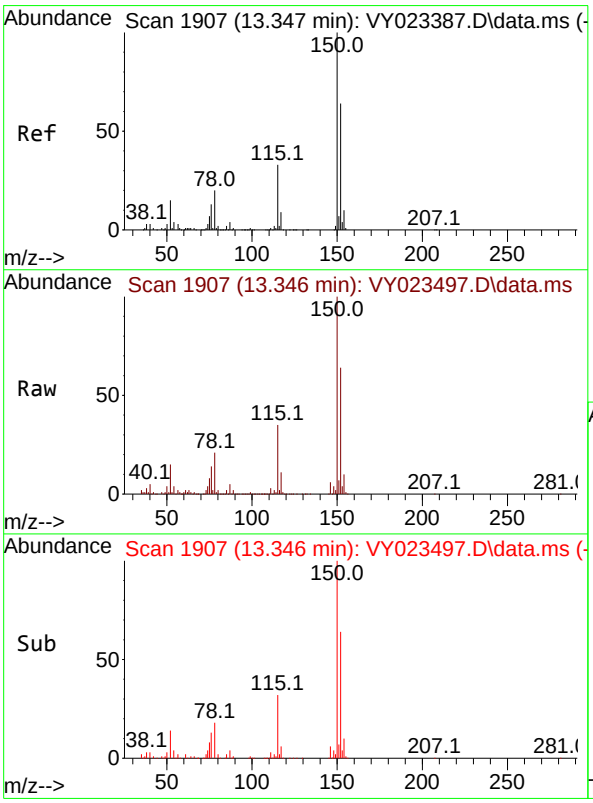
Tgt Ion:173 Resp: 6982

Ion	Ratio	Lower	Upper
173	100		
175	47.4	24.8	74.3
254	0.2	0.1	0.1#



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

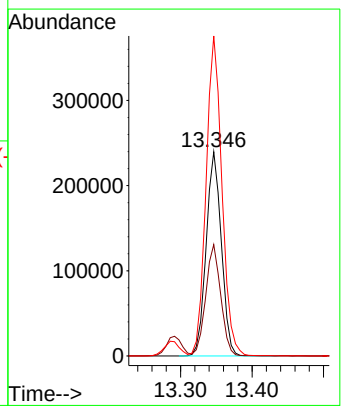
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

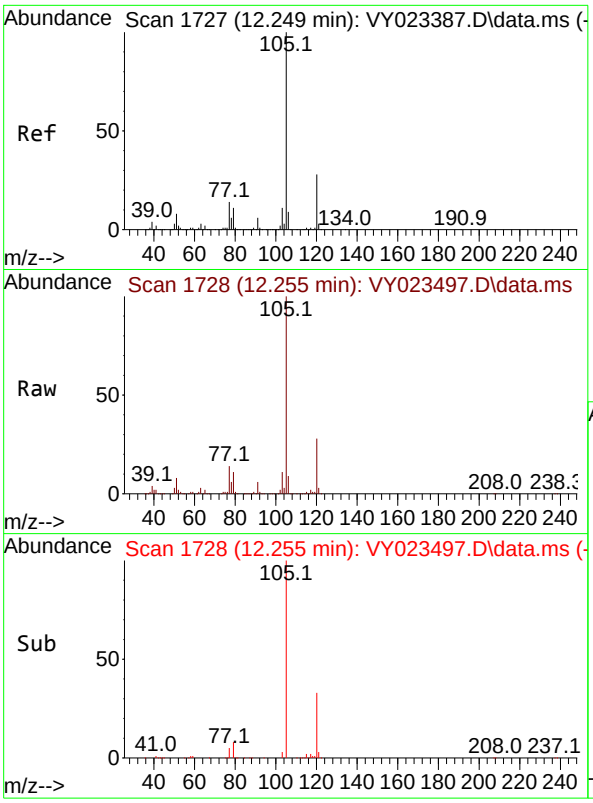


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:152 Resp: 353337

Ion	Ratio	Lower	Upper
152	100		
115	53.9	27.1	81.2
150	163.5	0.0	347.4

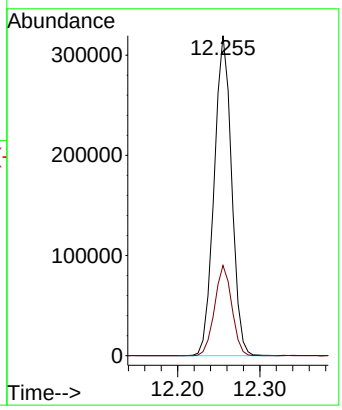




#73
Isopropylbenzene
Concen: 20.255 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:105 Resp: 47163

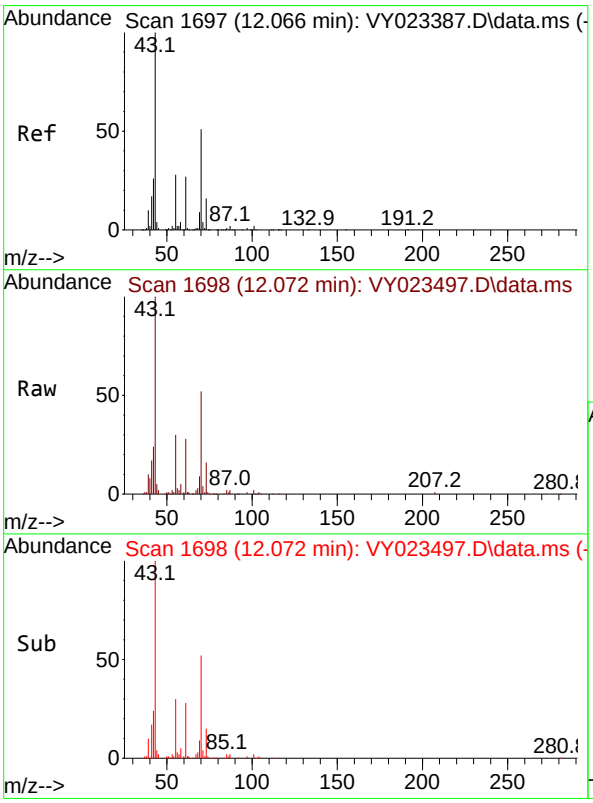
Ion	Ratio	Lower	Upper
105	100		
120	27.8	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

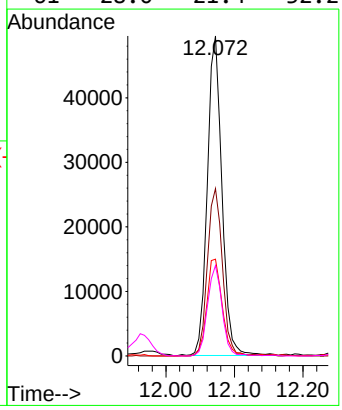
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

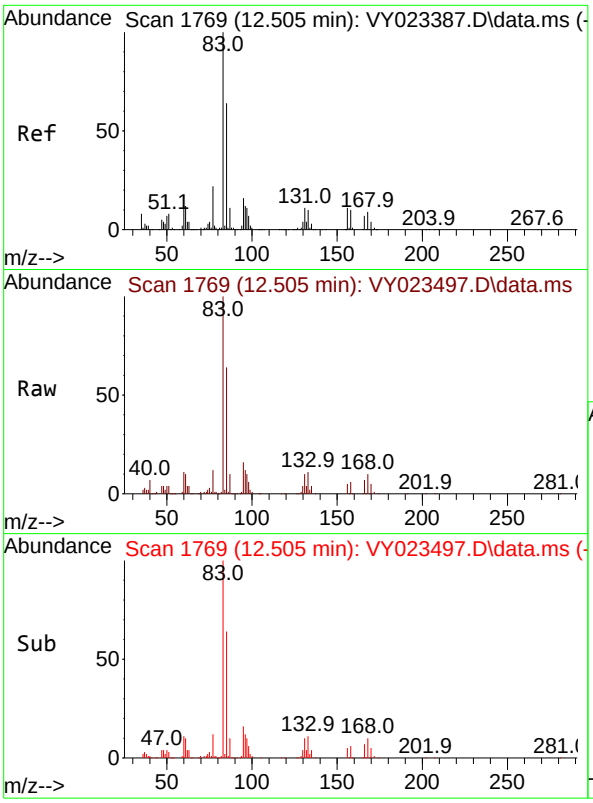


#74
N-amyl acetate
Concen: 17.626 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 43 Resp: 73717

Ion	Ratio	Lower	Upper
43	100		
70	53.3	41.1	61.7
55	32.0	23.0	34.6
61	28.0	21.4	32.2

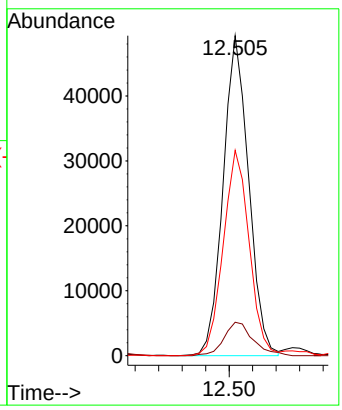




#75
1,1,2,2-Tetrachloroethane
Concen: 19.525 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

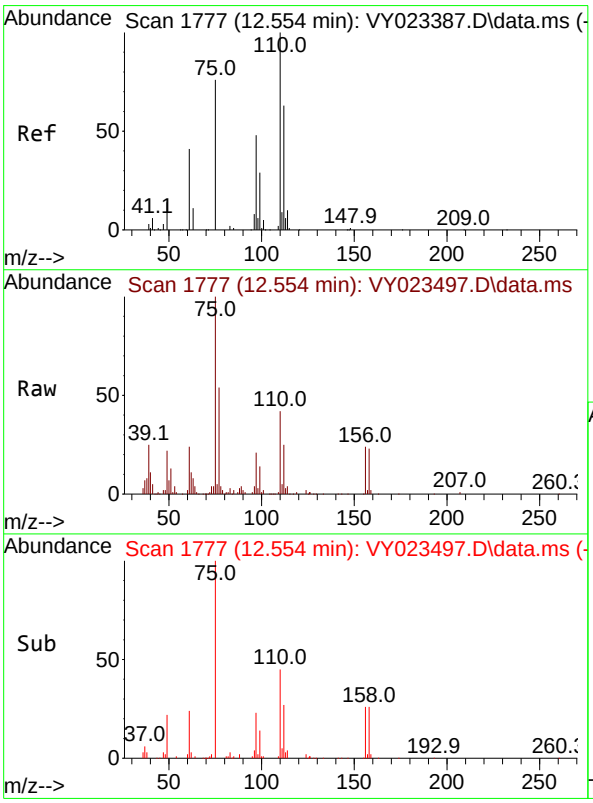
Tgt Ion: 83 Resp: 7436

Ion	Ratio	Lower	Upper
83	100		
131	11.9	5.9	17.6
85	65.5	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

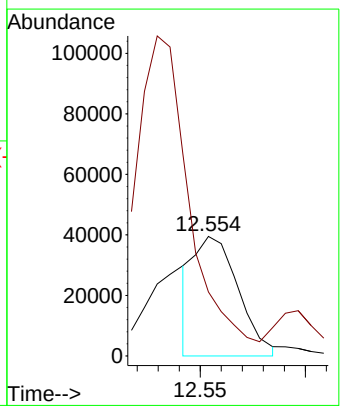
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

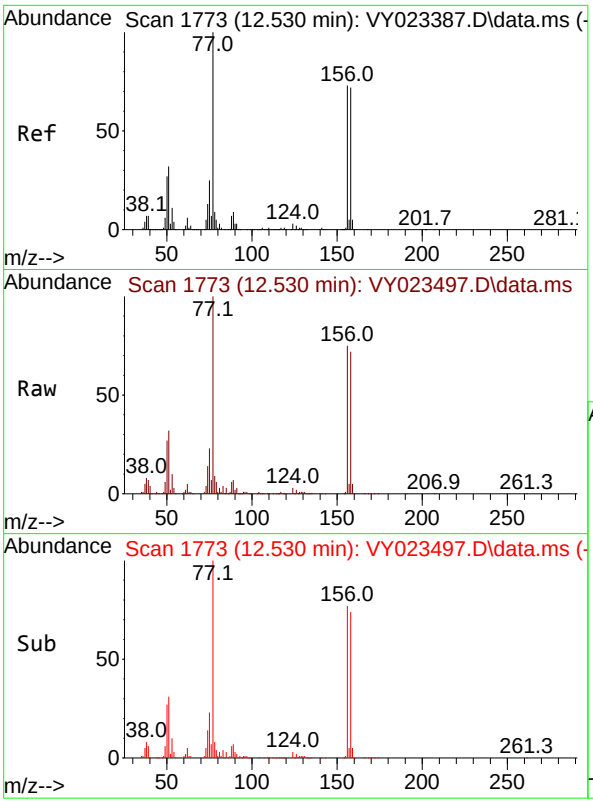


#76
1,2,3-Trichloropropane
Concen: 18.725 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 75 Resp: 58372

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

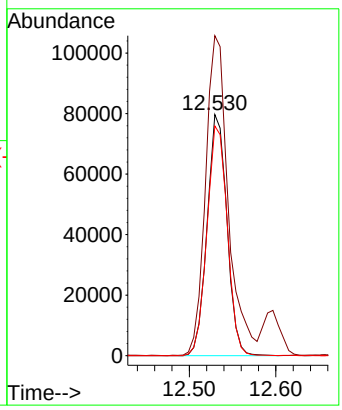




#77
Bromobenzene
Concen: 20.478 ug/l
RT: 12.530 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

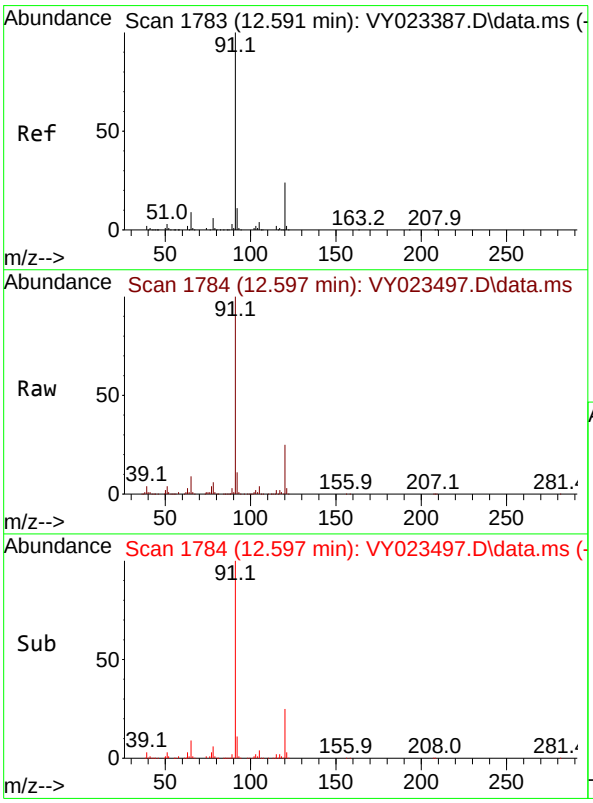
Tgt Ion:156 Resp: 12677

Ion	Ratio	Lower	Upper
156	100		
77	152.4	76.8	230.5
158	97.8	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

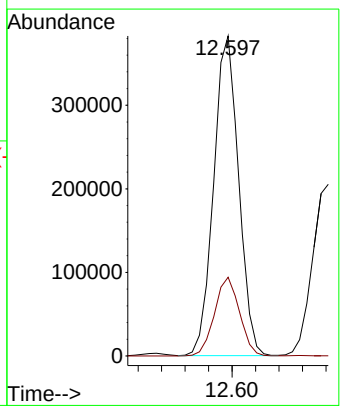
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

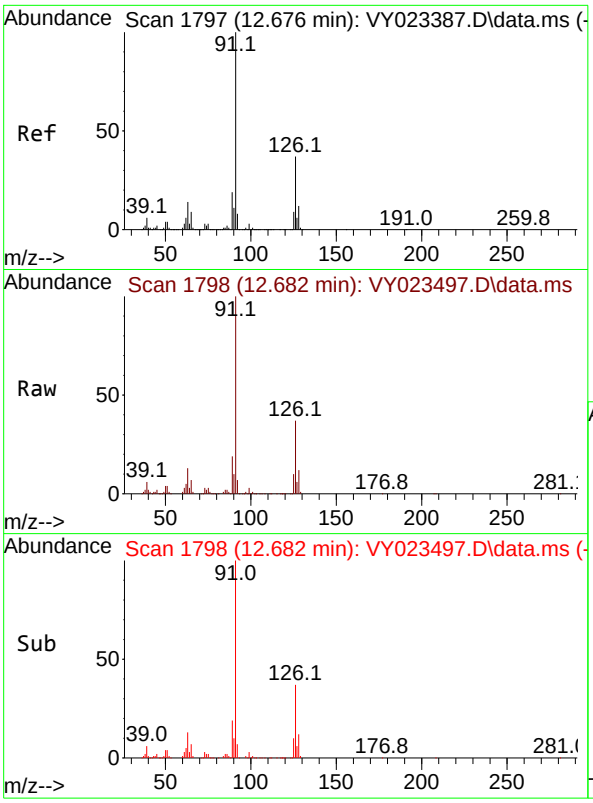


#78
n-propylbenzene
Concen: 20.946 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 91 Resp: 564399

Ion	Ratio	Lower	Upper
91	100		
120	24.7	12.3	36.8

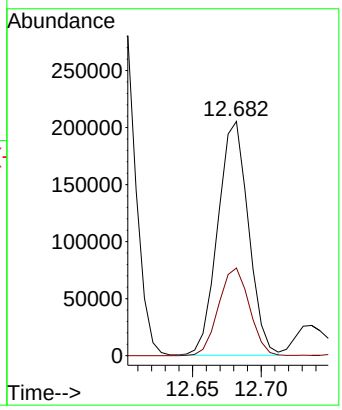




#79
2-Chlorotoluene
Concen: 20.266 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 91 Resp: 31977

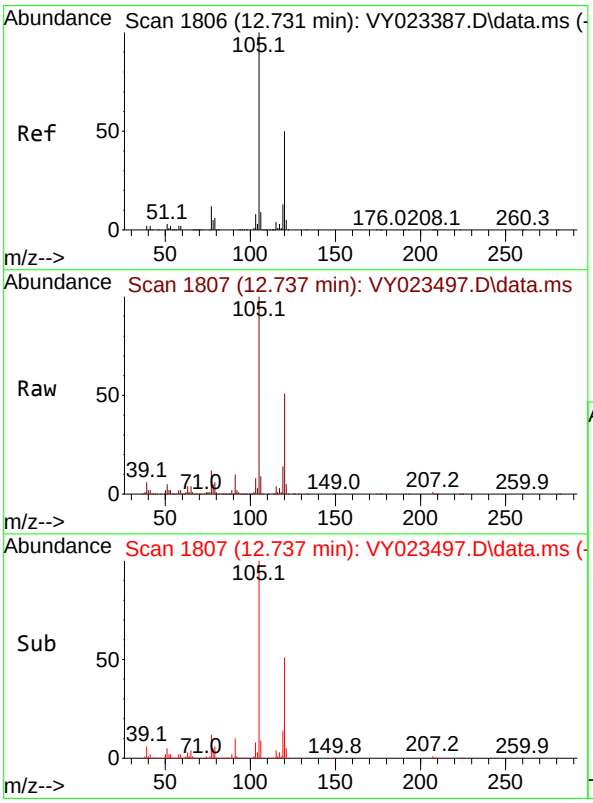
Ion	Ratio	Lower	Upper
91	100		
126	37.8	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

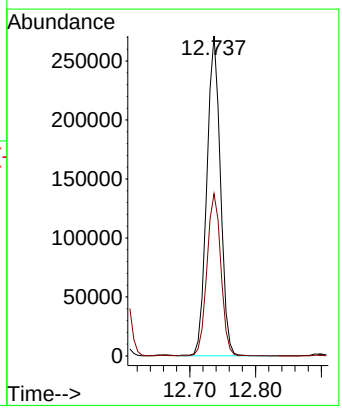
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

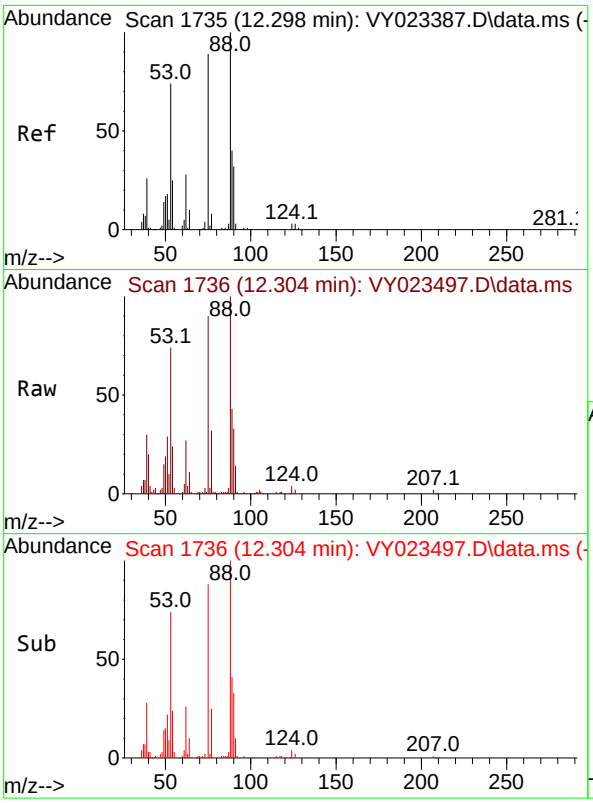


#80
1,3,5-Trimethylbenzene
Concen: 20.721 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:105 Resp: 389889

Ion	Ratio	Lower	Upper
105	100		
120	51.8	25.4	76.4

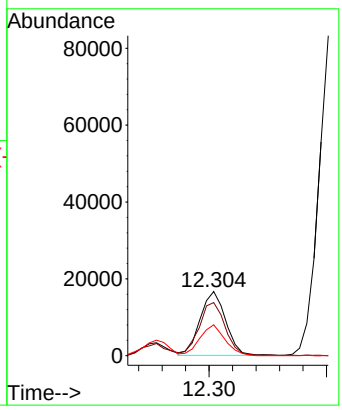




#81
trans-1,4-Dichloro-2-butene
Concen: 19.748 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 75 Resp: 2510

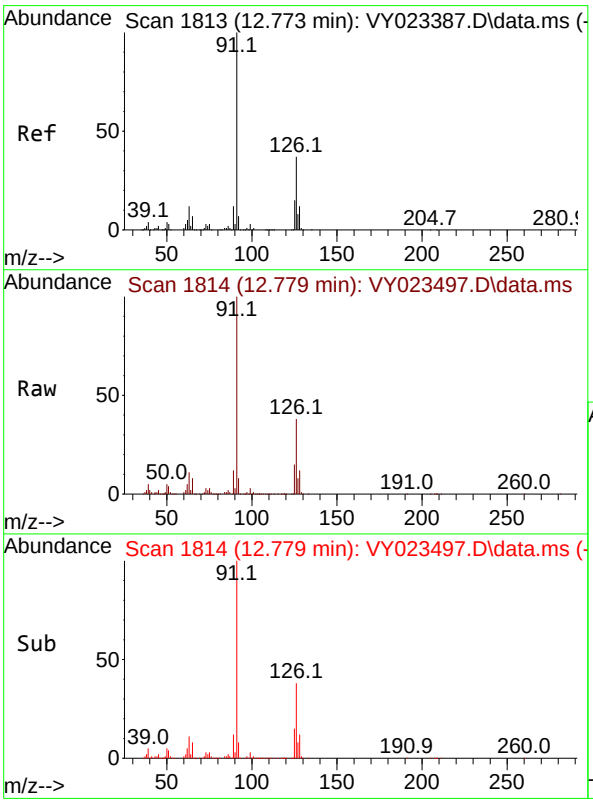
Ion	Ratio	Lower	Upper
75	100		
53	84.8	68.6	102.8
89	47.5	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

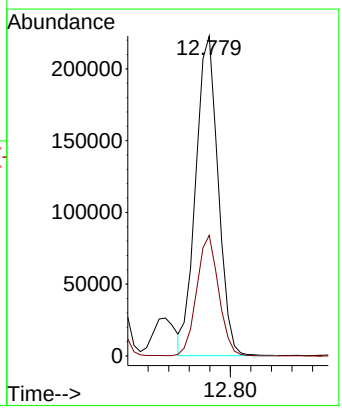
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

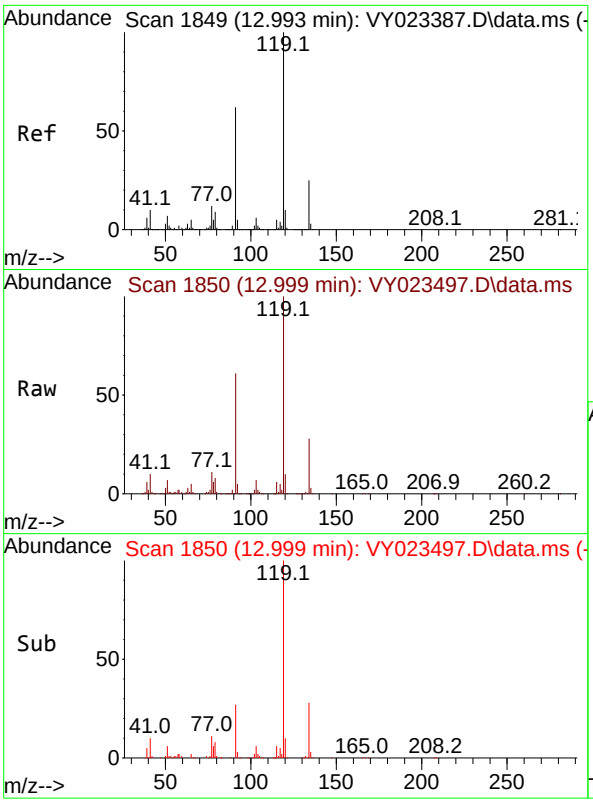


#82
4-Chlorotoluene
Concen: 20.763 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 91 Resp: 337426

Ion	Ratio	Lower	Upper
91	100		
126	36.9	18.4	55.4

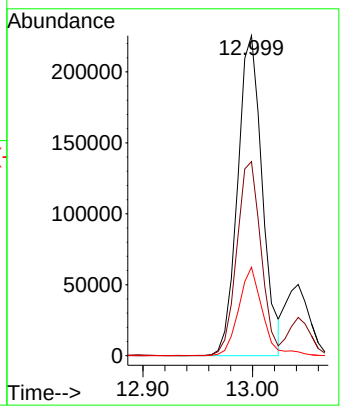




#83
tert-Butylbenzene
Concen: 20.235 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

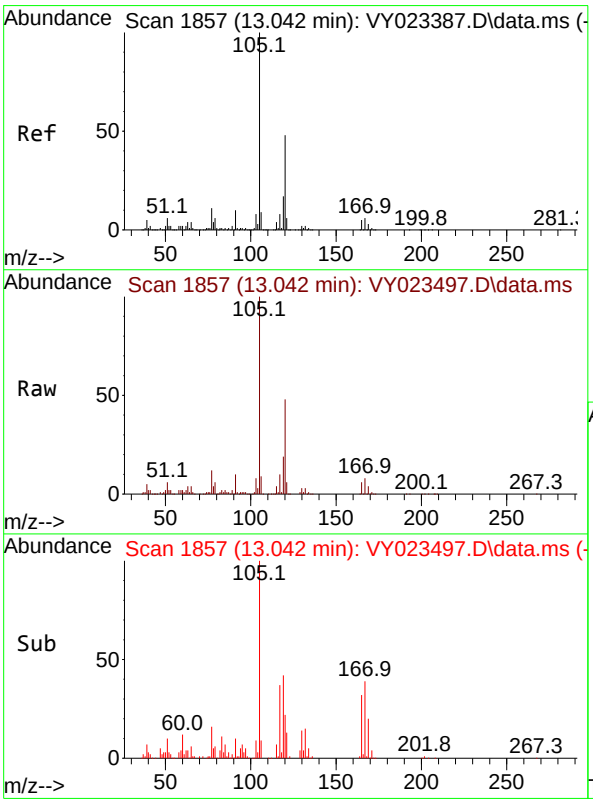
Tgt Ion:119 Resp: 35155

Ion	Ratio	Lower	Upper
119	100		
91	59.7	29.9	89.8
134	26.9	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

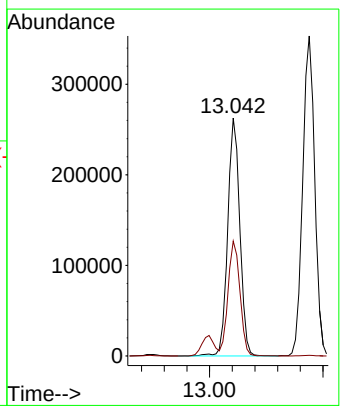
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

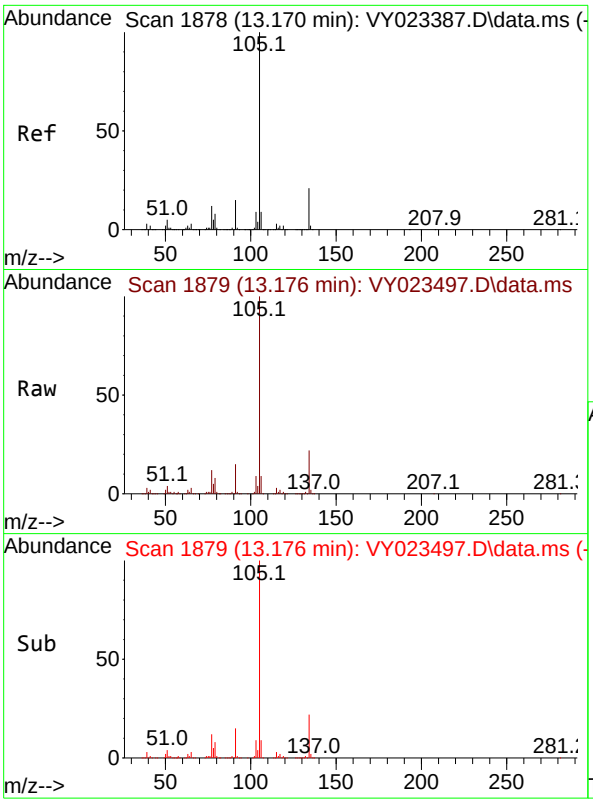


#84
1,2,4-Trimethylbenzene
Concen: 20.688 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:105 Resp: 388491

Ion	Ratio	Lower	Upper
105	100		
120	47.6	23.8	71.2

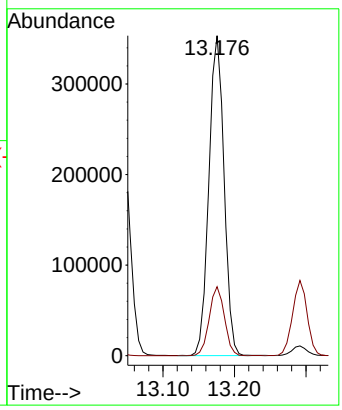




#85
sec-Butylbenzene
Concen: 20.857 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

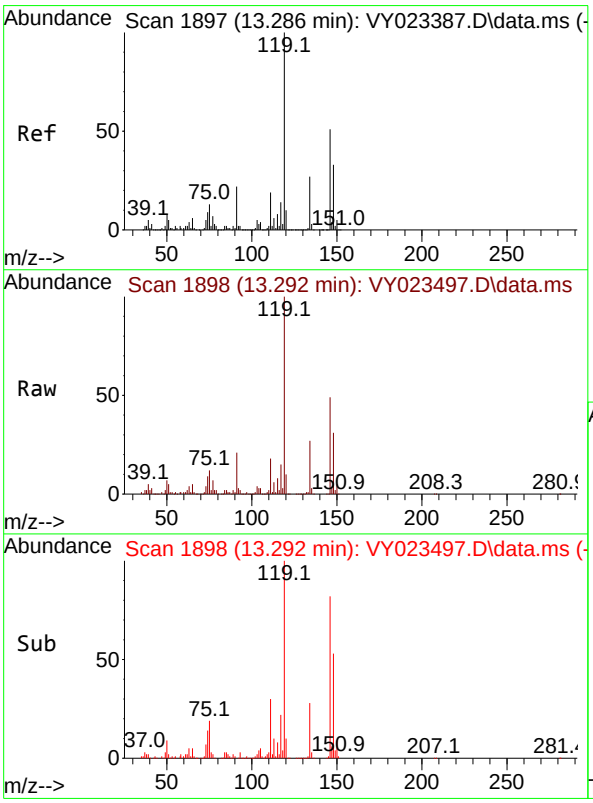
Tgt Ion:105 Resp: 51978

Ion	Ratio	Lower	Upper
105	100		
134	21.6	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

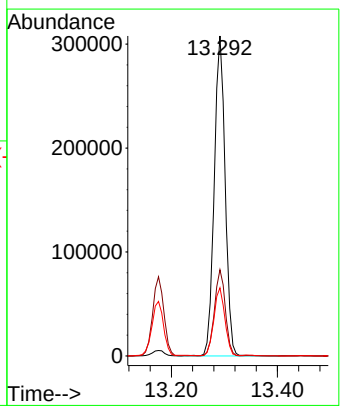
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

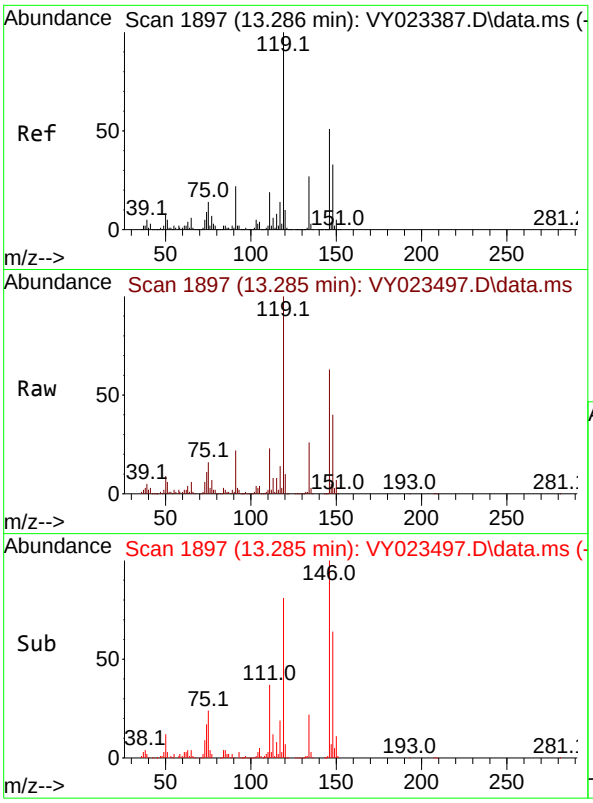


#86
p-Isopropyltoluene
Concen: 20.790 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:119 Resp: 441147

Ion	Ratio	Lower	Upper
119	100		
134	26.7	13.6	40.7
91	21.3	10.9	32.9

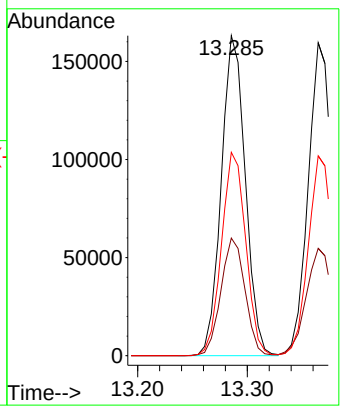




#87
1,3-Dichlorobenzene
Concen: 20.608 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

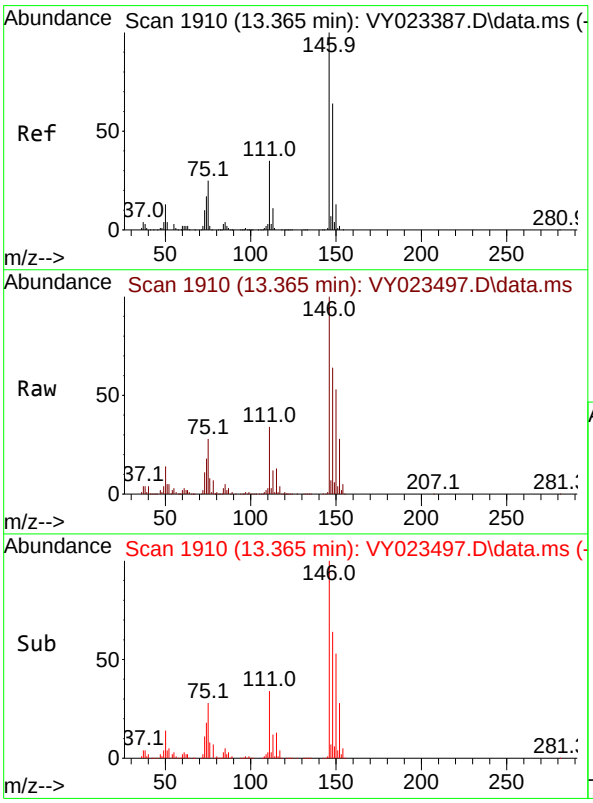
Tgt Ion:146 Resp: 24842

Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.7	56.1
148	64.0	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

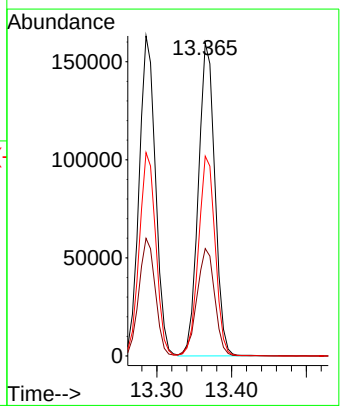
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

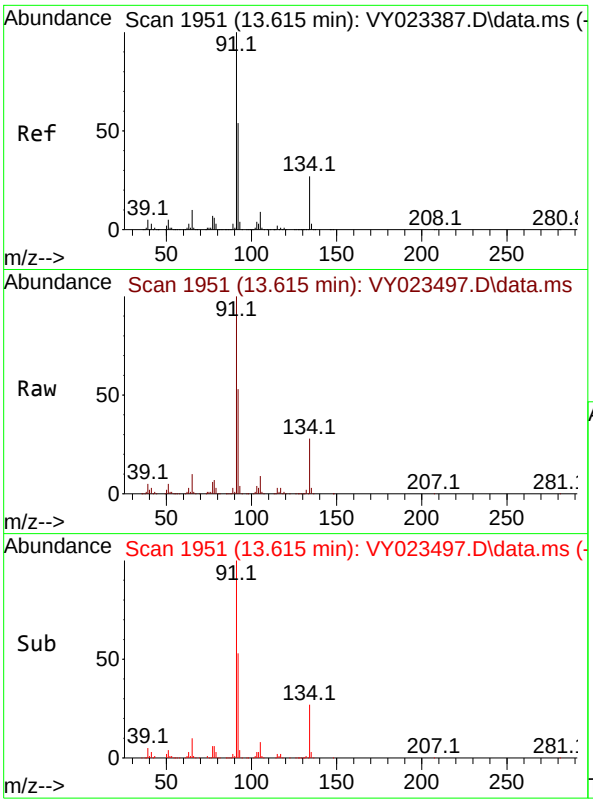


#88
1,4-Dichlorobenzene
Concen: 20.575 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:146 Resp: 244966

Ion	Ratio	Lower	Upper
146	100		
111	36.7	18.0	54.0
148	64.6	31.9	95.7

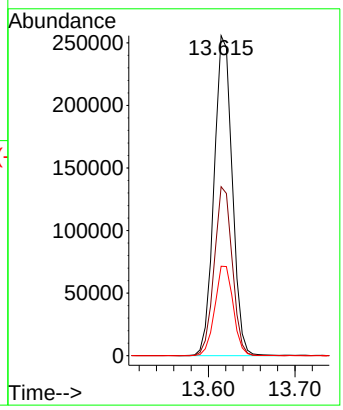




#89
n-Butylbenzene
Concen: 20.185 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

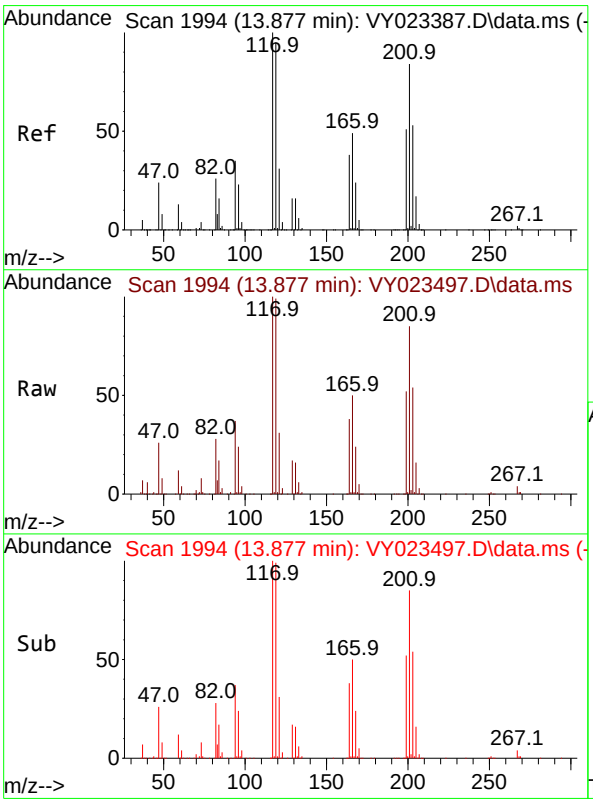
Tgt Ion: 91 Resp: 37319

Ion	Ratio	Lower	Upper
91	100		
92	52.3	27.0	80.8
134	28.3	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

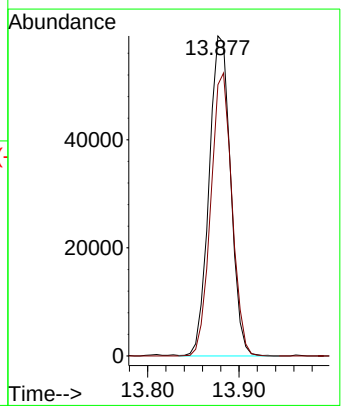
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

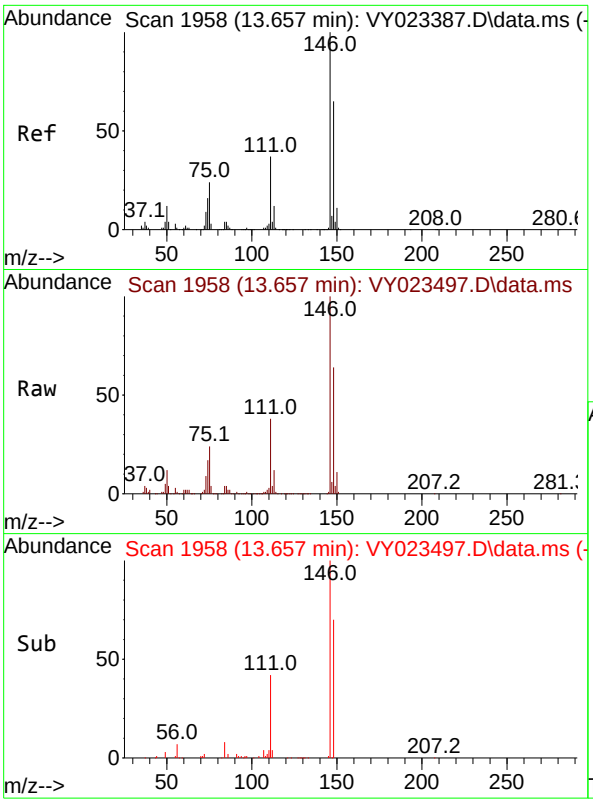


#90
Hexachloroethane
Concen: 21.241 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:117 Resp: 96938

Ion	Ratio	Lower	Upper
117	100		
201	86.6	43.8	131.4

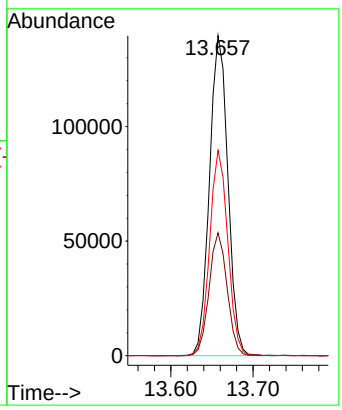




#91
1,2-Dichlorobenzene
Concen: 20.587 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:146 Resp: 21757

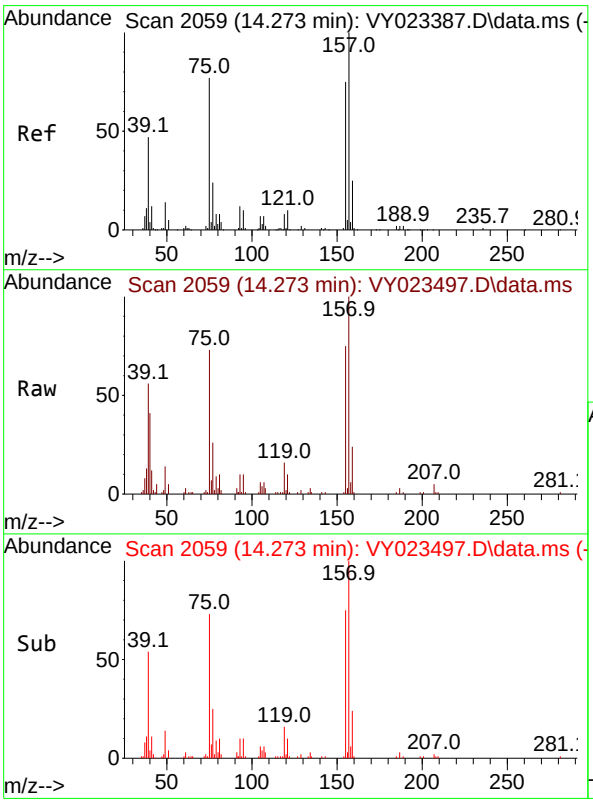
Ion	Ratio	Lower	Upper
146	100		
111	37.5	19.0	57.0
148	63.1	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

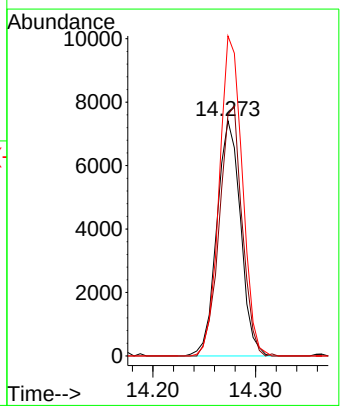
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

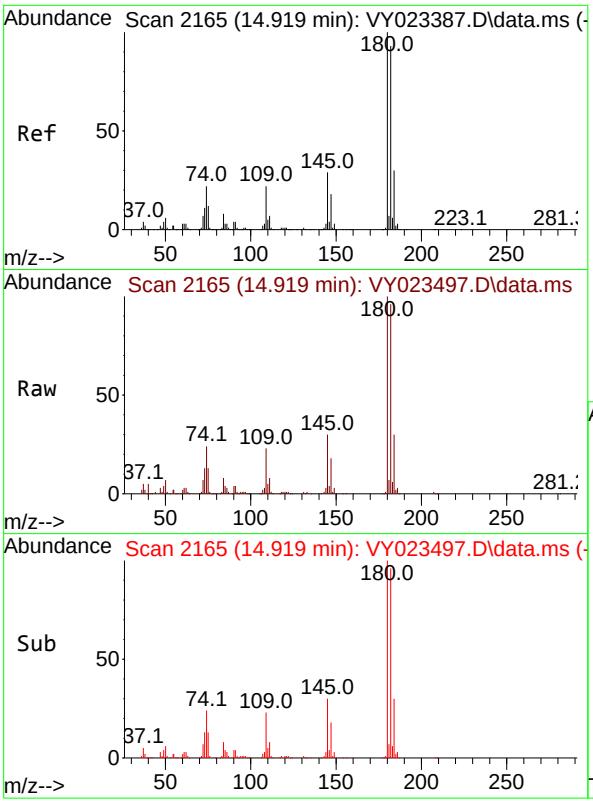


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.998 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion: 75 Resp: 11872

Ion	Ratio	Lower	Upper
75	100		
155	101.7	50.0	150.0
157	131.4	63.8	191.5

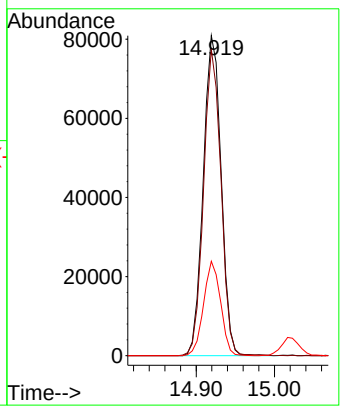




#93
1,2,4-Trichlorobenzene
Concen: 19.435 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:180 Resp: 12805

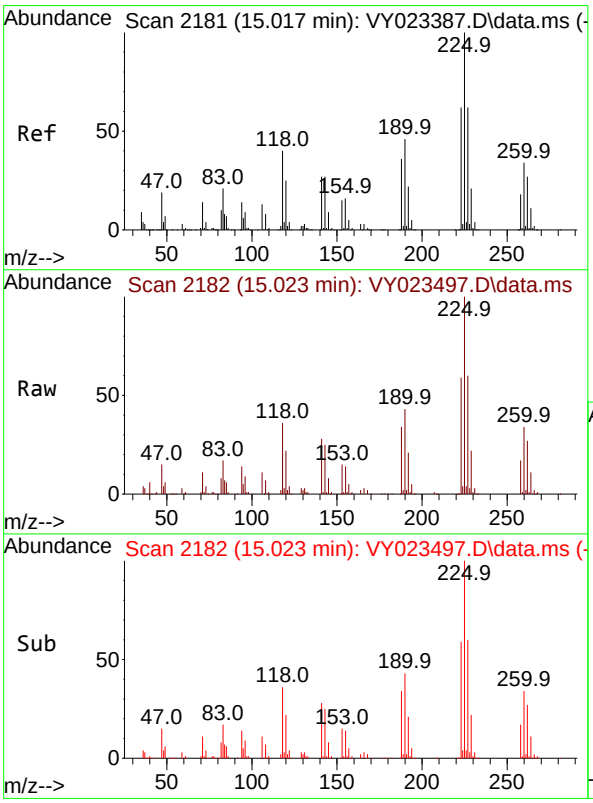
Ion	Ratio	Lower	Upper
180	100		
182	93.2	47.9	143.6
145	28.1	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

Manual Integrations
APPROVED

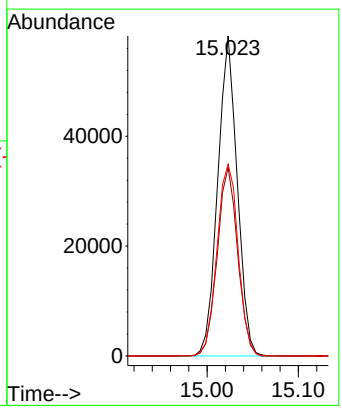
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

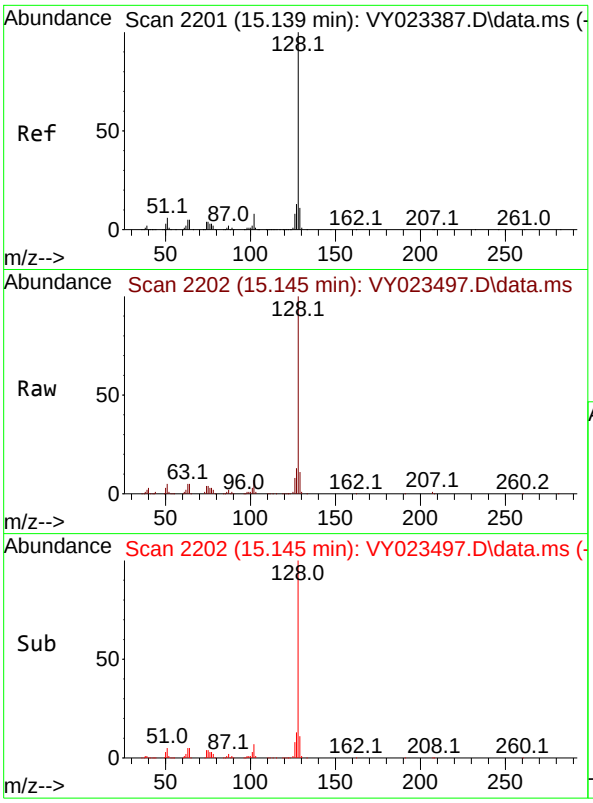


#94
Hexachlorobutadiene
Concen: 21.047 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:225 Resp: 86443

Ion	Ratio	Lower	Upper
225	100		
223	61.7	30.8	92.3
227	64.8	31.9	95.7

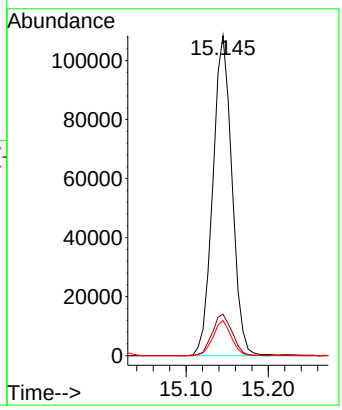




#95
Naphthalene
Concen: 16.704 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

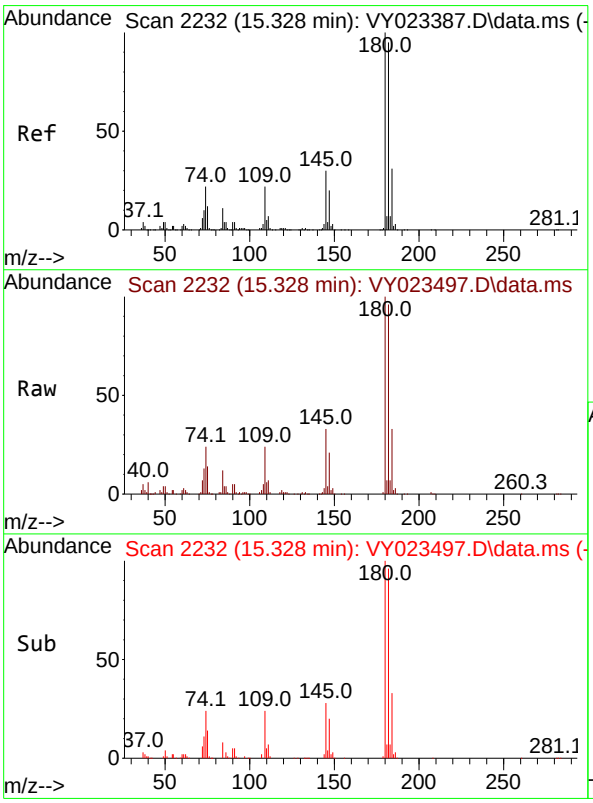
Tgt Ion:128 Resp: 17526

Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.4	15.6
129	10.5	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1020SBS01

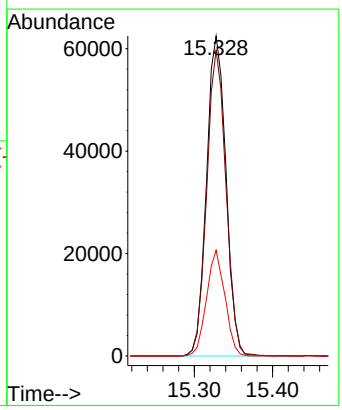
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.778 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023497.D
Acq: 20 Oct 2025 10:07

Tgt Ion:180 Resp: 107165

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.9	143.8
145	31.3	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:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VY1021SBS01	SDG No.:	Q3393
Lab Sample ID:	VY1021SBS01	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	20.3		1	1.10	5.00	ug/Kg	10/21/25 10:04	VY102125
74-87-3	Chloromethane	19.5		1	1.10	5.00	ug/Kg	10/21/25 10:04	VY102125
75-01-4	Vinyl Chloride	20.2		1	0.79	5.00	ug/Kg	10/21/25 10:04	VY102125
74-83-9	Bromomethane	21.5		1	1.10	5.00	ug/Kg	10/21/25 10:04	VY102125
75-00-3	Chloroethane	21.2		1	1.30	5.00	ug/Kg	10/21/25 10:04	VY102125
75-69-4	Trichlorofluoromethane	20.4		1	1.20	5.00	ug/Kg	10/21/25 10:04	VY102125
76-13-1	1,1,2-Trichlorotrifluoroethane	21.1		1	1.10	5.00	ug/Kg	10/21/25 10:04	VY102125
75-35-4	1,1-Dichloroethene	20.2		1	1.00	5.00	ug/Kg	10/21/25 10:04	VY102125
67-64-1	Acetone	120		1	4.70	25.0	ug/Kg	10/21/25 10:04	VY102125
75-15-0	Carbon Disulfide	20.2		1	1.10	5.00	ug/Kg	10/21/25 10:04	VY102125
1634-04-4	Methyl tert-butyl Ether	18.0		1	0.73	5.00	ug/Kg	10/21/25 10:04	VY102125
79-20-9	Methyl Acetate	15.9		1	1.50	5.00	ug/Kg	10/21/25 10:04	VY102125
75-09-2	Methylene Chloride	19.0		1	3.50	10.0	ug/Kg	10/21/25 10:04	VY102125
156-60-5	trans-1,2-Dichloroethene	21.0		1	0.86	5.00	ug/Kg	10/21/25 10:04	VY102125
75-34-3	1,1-Dichloroethane	20.5		1	0.80	5.00	ug/Kg	10/21/25 10:04	VY102125
110-82-7	Cyclohexane	18.8		1	0.79	5.00	ug/Kg	10/21/25 10:04	VY102125
78-93-3	2-Butanone	100		1	6.50	25.0	ug/Kg	10/21/25 10:04	VY102125
56-23-5	Carbon Tetrachloride	21.7		1	0.97	5.00	ug/Kg	10/21/25 10:04	VY102125
156-59-2	cis-1,2-Dichloroethene	20.7		1	0.75	5.00	ug/Kg	10/21/25 10:04	VY102125
74-97-5	Bromochloromethane	19.7		1	1.20	5.00	ug/Kg	10/21/25 10:04	VY102125
67-66-3	Chloroform	21.5		1	0.84	5.00	ug/Kg	10/21/25 10:04	VY102125
71-55-6	1,1,1-Trichloroethane	21.1		1	0.93	5.00	ug/Kg	10/21/25 10:04	VY102125
108-87-2	Methylcyclohexane	19.8		1	0.91	5.00	ug/Kg	10/21/25 10:04	VY102125
71-43-2	Benzene	21.6		1	0.79	5.00	ug/Kg	10/21/25 10:04	VY102125
107-06-2	1,2-Dichloroethane	20.0		1	0.79	5.00	ug/Kg	10/21/25 10:04	VY102125
79-01-6	Trichloroethene	21.9		1	0.81	5.00	ug/Kg	10/21/25 10:04	VY102125
78-87-5	1,2-Dichloropropane	21.5		1	0.91	5.00	ug/Kg	10/21/25 10:04	VY102125
75-27-4	Bromodichloromethane	21.3		1	0.78	5.00	ug/Kg	10/21/25 10:04	VY102125
108-10-1	4-Methyl-2-Pentanone	86.7		1	3.60	25.0	ug/Kg	10/21/25 10:04	VY102125
108-88-3	Toluene	21.9		1	0.78	5.00	ug/Kg	10/21/25 10:04	VY102125
10061-02-6	t-1,3-Dichloropropene	19.9		1	0.65	5.00	ug/Kg	10/21/25 10:04	VY102125
10061-01-5	cis-1,3-Dichloropropene	20.8		1	0.62	5.00	ug/Kg	10/21/25 10:04	VY102125
79-00-5	1,1,2-Trichloroethane	21.0		1	0.92	5.00	ug/Kg	10/21/25 10:04	VY102125
591-78-6	2-Hexanone	95.9		1	3.70	25.0	ug/Kg	10/21/25 10:04	VY102125
124-48-1	Dibromochloromethane	20.8		1	0.87	5.00	ug/Kg	10/21/25 10:04	VY102125
106-93-4	1,2-Dibromoethane	20.1		1	0.88	5.00	ug/Kg	10/21/25 10:04	VY102125
127-18-4	Tetrachloroethene	22.0		1	1.10	5.00	ug/Kg	10/21/25 10:04	VY102125
108-90-7	Chlorobenzene	21.2		1	0.91	5.00	ug/Kg	10/21/25 10:04	VY102125
100-41-4	Ethyl Benzene	21.0		1	0.67	5.00	ug/Kg	10/21/25 10:04	VY102125
179601-23-1	m/p-Xylenes	43.1		1	1.20	10.0	ug/Kg	10/21/25 10:04	VY102125
95-47-6	o-Xylene	20.6		1	0.82	5.00	ug/Kg	10/21/25 10:04	VY102125
100-42-5	Styrene	21.0		1	0.71	5.00	ug/Kg	10/21/25 10:04	VY102125
75-25-2	Bromoform	19.5		1	0.86	5.00	ug/Kg	10/21/25 10:04	VY102125

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VY1021SBS01	SDG No.:	Q3393
Lab Sample ID:	VY1021SBS01	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	20.3		1	0.78	5.00	ug/Kg	10/21/25 10:04	VY102125
79-34-5	1,1,2,2-Tetrachloroethane	18.2		1	1.20	5.00	ug/Kg	10/21/25 10:04	VY102125
541-73-1	1,3-Dichlorobenzene	20.7		1	1.70	5.00	ug/Kg	10/21/25 10:04	VY102125
106-46-7	1,4-Dichlorobenzene	20.5		1	1.60	5.00	ug/Kg	10/21/25 10:04	VY102125
95-50-1	1,2-Dichlorobenzene	20.5		1	1.50	5.00	ug/Kg	10/21/25 10:04	VY102125
96-12-8	1,2-Dibromo-3-Chloropropane	17.0		1	1.80	5.00	ug/Kg	10/21/25 10:04	VY102125
120-82-1	1,2,4-Trichlorobenzene	18.0		1	3.00	5.00	ug/Kg	10/21/25 10:04	VY102125
87-61-6	1,2,3-Trichlorobenzene	18.1		1	3.20	5.00	ug/Kg	10/21/25 10:04	VY102125
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	46.9			63 - 155	94%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.9			70 - 134	102%	SPK: 50		
2037-26-5	Toluene-d8	51.3			74 - 123	103%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.9			17 - 146	100%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	494000							
540-36-3	1,4-Difluorobenzene	713000							
3114-55-4	Chlorobenzene-d5	636000							
3855-82-1	1,4-Dichlorobenzene-d4	341000							

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\VY102125\
Data File : VY023523.D
Acq On : 21 Oct 2025 10:04
Operator : SY/MD
Sample : VY1021SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 24 01:22:08 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 :
VY1021SBS01

Manual Integrations APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.713	168	494016	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	712868	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	635785	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	341398	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	193871	46.930	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 93.860%			
35) Dibromofluoromethane	7.634	113	222986	50.907	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.820%			
50) Toluene-d8	10.109	98	837402	51.335	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 102.680%			
62) 4-Bromofluorobenzene	12.408	95	268965	49.942	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 99.880%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.867	85	72214	20.308	ug/l	96
3) Chloromethane	2.074	50	94488	19.506	ug/l	99
4) Vinyl Chloride	2.208	62	127704	20.240	ug/l	98
5) Bromomethane	2.592	94	113644	21.464	ug/l	96
6) Chloroethane	2.732	64	91163	21.197	ug/l	99
7) Trichlorofluoromethane	3.056	101	179067	20.441	ug/l	100
8) Diethyl Ether	3.458	74	42637	18.626	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.812	101	96083	21.136	ug/l	99
10) Methyl Iodide	4.007	142	95981	18.966	ug/l	100
11) Tert butyl alcohol	4.848	59	34552	112.428	ug/l #	89
12) 1,1-Dichloroethene	3.787	96	89008	20.198	ug/l	95
13) Acrolein	3.653	56	21612	49.768	ug/l	98
14) Allyl chloride	4.385	41	99926	18.606	ug/l	96
15) Acrylonitrile	5.061	53	79043	90.228	ug/l	99
16) Acetone	3.866	43	119380	121.387	ug/l	99
17) Carbon Disulfide	4.110	76	254170	20.152	ug/l	99
18) Methyl Acetate	4.385	43	40953	15.874	ug/l	100
19) Methyl tert-butyl Ether	5.116	73	190637	17.999	ug/l	96
20) Methylene Chloride	4.616	84	101259	19.041	ug/l	99
21) trans-1,2-Dichloroethene	5.116	96	101665	20.955	ug/l	97
22) Diisopropyl ether	6.018	45	232353	19.559	ug/l	93
23) Vinyl Acetate	5.964	43	586288	91.178	ug/l	97
24) 1,1-Dichloroethane	5.915	63	161044	20.465	ug/l	99
25) 2-Butanone	6.896	43	122251	101.820	ug/l	96
26) 2,2-Dichloropropane	6.884	77	149940	20.766	ug/l	98
27) cis-1,2-Dichloroethene	6.890	96	115907	20.682	ug/l	98
28) Bromochloromethane	7.250	49	57916	19.715	ug/l	93
29) Tetrahydrofuran	7.262	42	54688	80.322	ug/l	97
30) Chloroform	7.421	83	186069	21.521	ug/l	100
31) Cyclohexane	7.701	56	129108	18.787	ug/l	95
32) 1,1,1-Trichloroethane	7.616	97	165772	21.099	ug/l	100
36) 1,1-Dichloropropene	7.835	75	122511	21.126	ug/l	99
37) Ethyl Acetate	6.988	43	42544	18.518	ug/l	98
38) Carbon Tetrachloride	7.823	117	152907	21.746	ug/l	99
39) Methylcyclohexane	9.109	83	149816	19.842	ug/l	96
40) Benzene	8.079	78	396525	21.591	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023523.D
Acq On : 21 Oct 2025 10:04
Operator : SY/MD
Sample : VY1021SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 24 01:22:08 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 :
VY1021SBS01

Manual Integrations APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.238	41	24936m	20.069	ug/l		
42) 1,2-Dichloroethane	8.158	62	94656	19.985	ug/l		97
43) Isopropyl Acetate	8.201	43	79352	17.322	ug/l		99
44) Trichloroethene	8.865	130	117801	21.916	ug/l		97
45) 1,2-Dichloropropane	9.140	63	87109	21.475	ug/l		100
46) Dibromomethane	9.231	93	52865	20.610	ug/l		98
47) Bromodichloromethane	9.426	83	137492	21.284	ug/l		100
48) Methyl methacrylate	9.219	41	34583	16.069	ug/l		89
49) 1,4-Dioxane	9.231	88	10115	340.128	ug/l		98
51) 4-Methyl-2-Pentanone	9.999	43	205212	86.702	ug/l		100
52) Toluene	10.170	92	260667	21.861	ug/l		100
53) t-1,3-Dichloropropene	10.396	75	111956	19.932	ug/l		99
54) cis-1,3-Dichloropropene	9.859	75	137908	20.802	ug/l		98
55) 1,1,2-Trichloroethane	10.573	97	72400	20.990	ug/l		95
56) Ethyl methacrylate	10.438	69	68512	17.220	ug/l		96
57) 1,3-Dichloropropane	10.719	76	110943	20.298	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.713	63	161119	90.396	ug/l		100
59) 2-Hexanone	10.761	43	162182	95.882	ug/l		100
60) Dibromochloromethane	10.914	129	100658	20.815	ug/l		99
61) 1,2-Dibromoethane	11.011	107	66140	20.106	ug/l		100
64) Tetrachloroethene	10.646	164	144595	22.026	ug/l		96
65) Chlorobenzene	11.444	112	292874	21.180	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.517	131	105517	21.413	ug/l		99
67) Ethyl Benzene	11.517	91	469417	20.972	ug/l		99
68) m/p-Xylenes	11.627	106	386672	43.069	ug/l		98
69) o-Xylene	11.956	106	173158	20.563	ug/l		100
70) Styrene	11.969	104	290368	20.968	ug/l		100
71) Bromoform	12.133	173	59594	19.497	ug/l	#	99
73) Isopropylbenzene	12.255	105	457435	20.332	ug/l		99
74) N-amyl acetate	12.072	43	63675	15.757	ug/l		96
75) 1,1,2,2-Tetrachloroethane	12.505	83	67088	18.231	ug/l		100
76) 1,2,3-Trichloropropane	12.554	75	51352m	17.049	ug/l		
77) Bromobenzene	12.529	156	120941	20.220	ug/l		97
78) n-propylbenzene	12.597	91	544028	20.896	ug/l		100
79) 2-Chlorotoluene	12.682	91	314616	20.636	ug/l		100
80) 1,3,5-Trimethylbenzene	12.737	105	382336	21.030	ug/l		100
81) trans-1,4-Dichloro-2-b...	12.304	75	21535	17.532	ug/l		99
82) 4-Chlorotoluene	12.779	91	333366	21.231	ug/l		100
83) tert-Butylbenzene	12.999	119	342878	20.426	ug/l		99
84) 1,2,4-Trimethylbenzene	13.042	105	382715	21.093	ug/l		99
85) sec-Butylbenzene	13.176	105	504696	20.959	ug/l		100
86) p-Isopropyltoluene	13.292	119	427597	20.856	ug/l		100
87) 1,3-Dichlorobenzene	13.285	146	241546	20.738	ug/l		100
88) 1,4-Dichlorobenzene	13.365	146	236089	20.523	ug/l		98
89) n-Butylbenzene	13.615	91	360818	20.198	ug/l		99
90) Hexachloroethane	13.877	117	93382	21.177	ug/l		97
91) 1,2-Dichlorobenzene	13.657	146	209046	20.472	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	10278	17.023	ug/l		96
93) 1,2,4-Trichlorobenzene	14.919	180	114772	18.029	ug/l		99
94) Hexachlorobutadiene	15.023	225	80710	20.338	ug/l		97
95) Naphthalene	15.145	128	155957	15.384	ug/l		99
96) 1,2,3-Trichlorobenzene	15.328	180	99805	18.100	ug/l		99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023523.D
Acq On : 21 Oct 2025 10:04
Operator : SY/MD
Sample : VY1021SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 24 01:22:08 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 :
VY1021SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 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

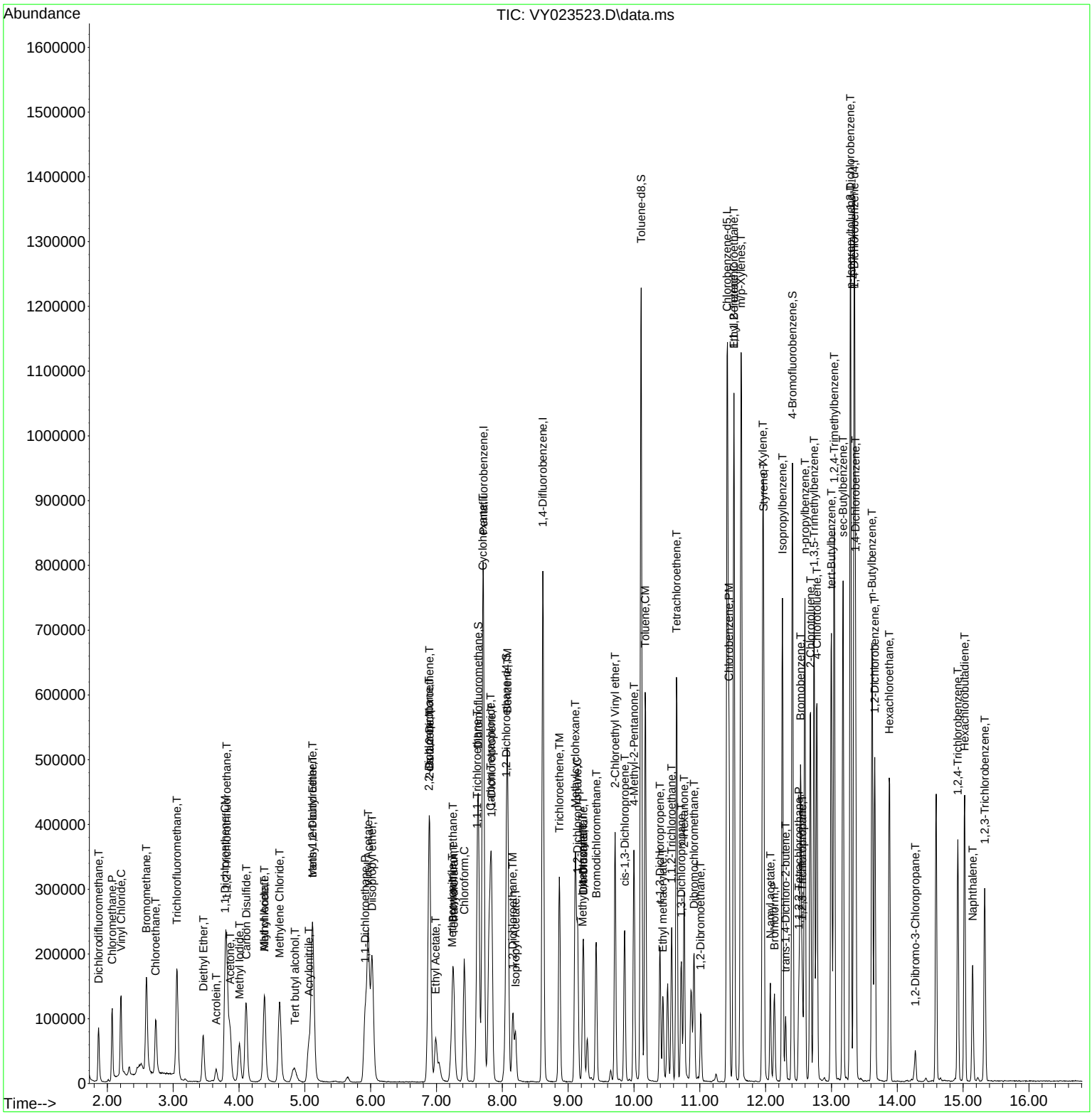
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102125\
Data File : VY023523.D
Acq On : 21 Oct 2025 10:04
Operator : SY/MD
Sample : VY1021SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

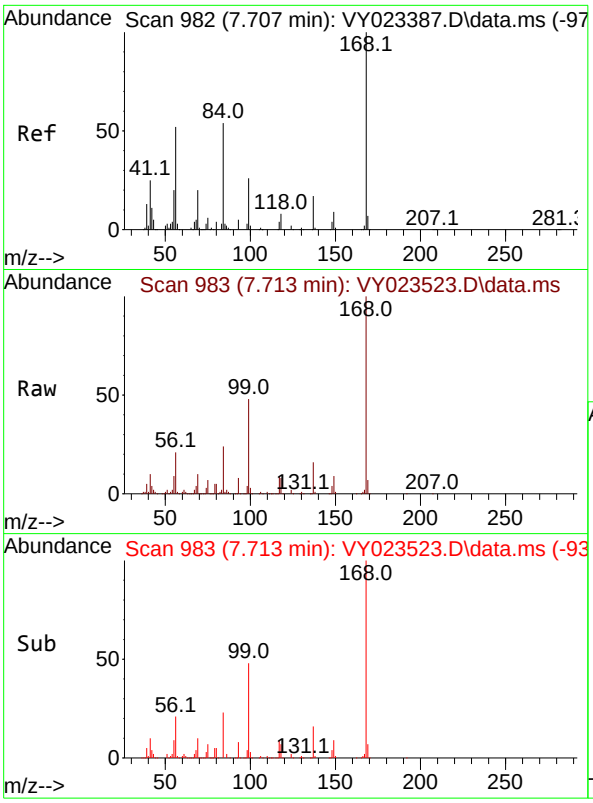
Quant Time: Oct 24 01:22:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

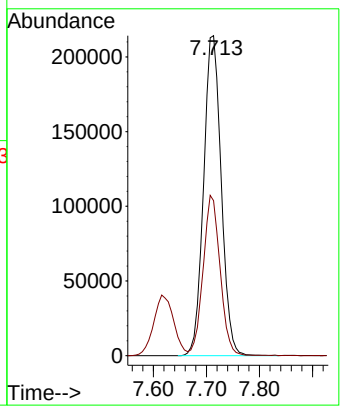




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:168 Resp: 49401

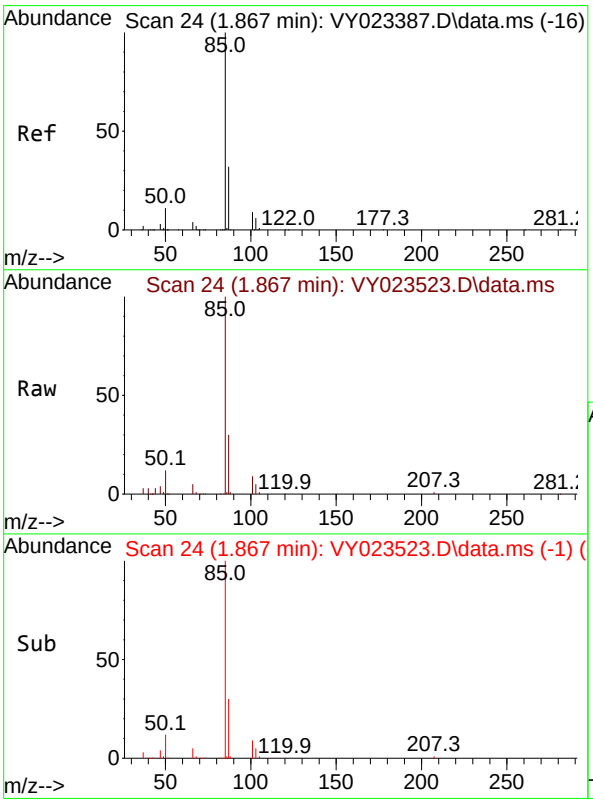
Ion	Ratio	Lower	Upper
168	100		
99	48.4	39.7	59.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

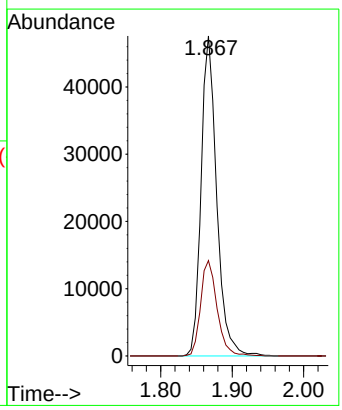
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

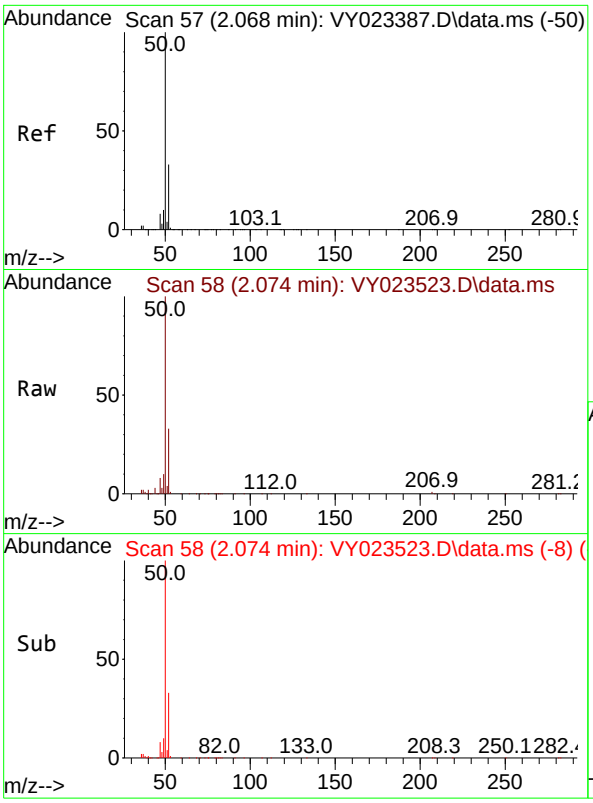


#2
Dichlorodifluoromethane
Concen: 20.308 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 85 Resp: 72214

Ion	Ratio	Lower	Upper
85	100		
87	29.8	16.0	47.9

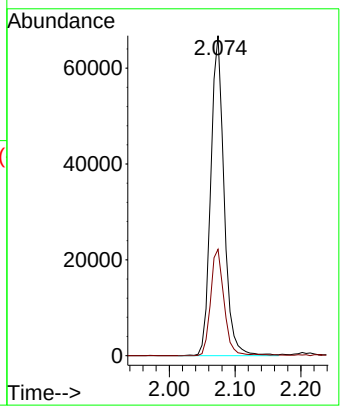




#3
Chloromethane
Concen: 19.506 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 50 Resp: 9448

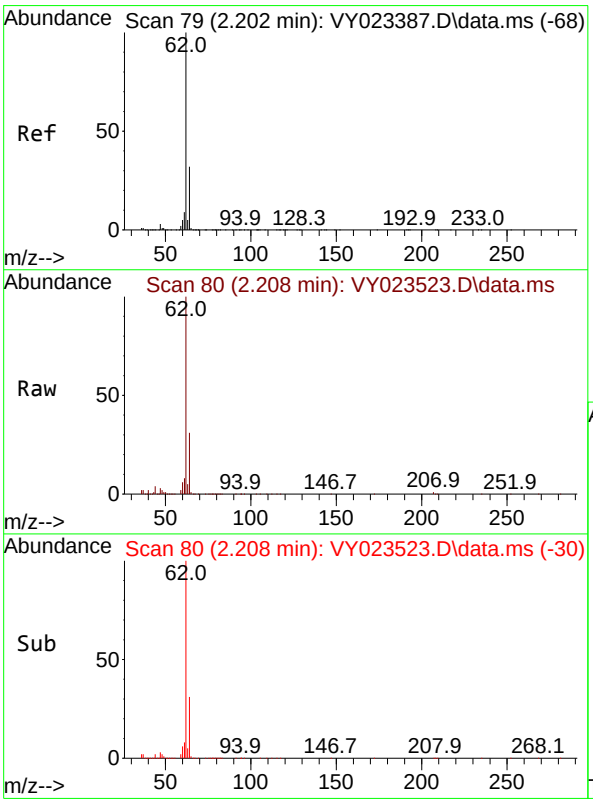
Ion	Ratio	Lower	Upper
50	100		
52	33.3	26.2	39.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

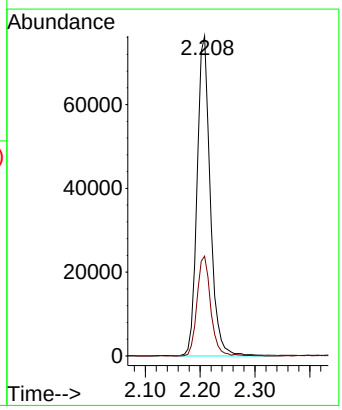
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

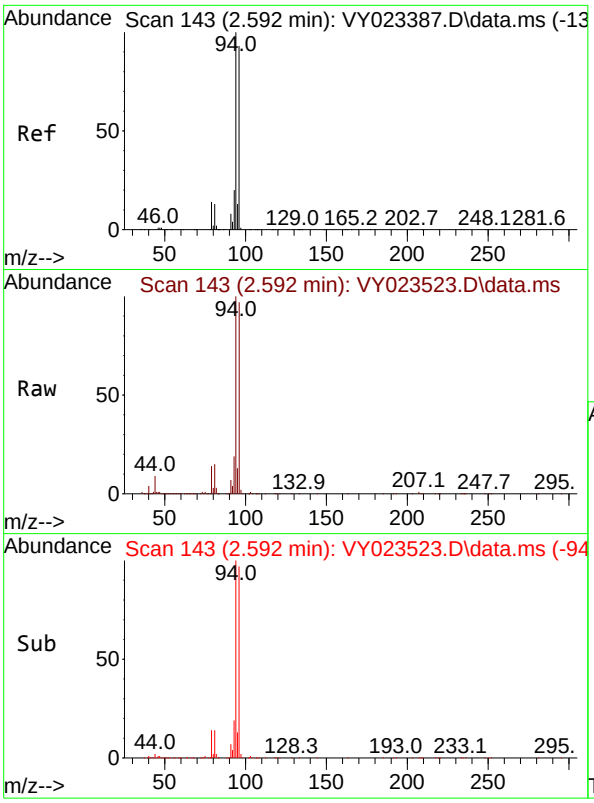


#4
Vinyl Chloride
Concen: 20.240 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 62 Resp: 127704

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.8	38.8

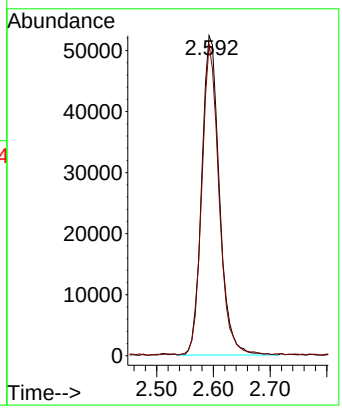




#5
Bromomethane
Concen: 21.464 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 94 Resp: 11364

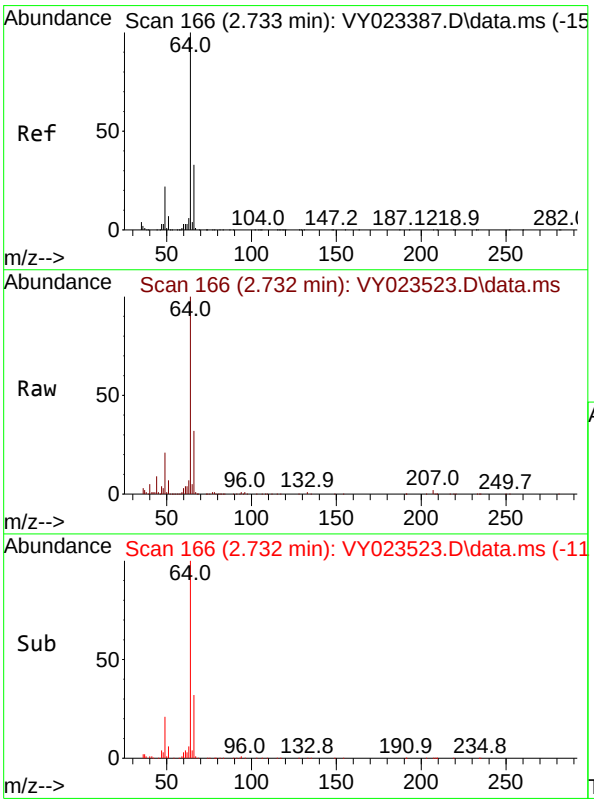
Ion	Ratio	Lower	Upper
94	100		
96	97.1	74.5	111.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

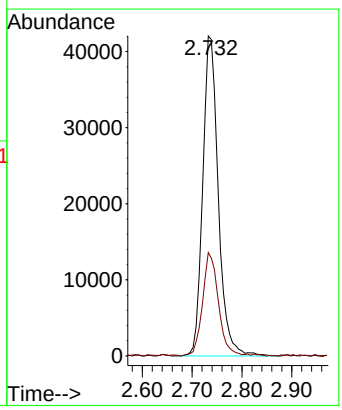
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

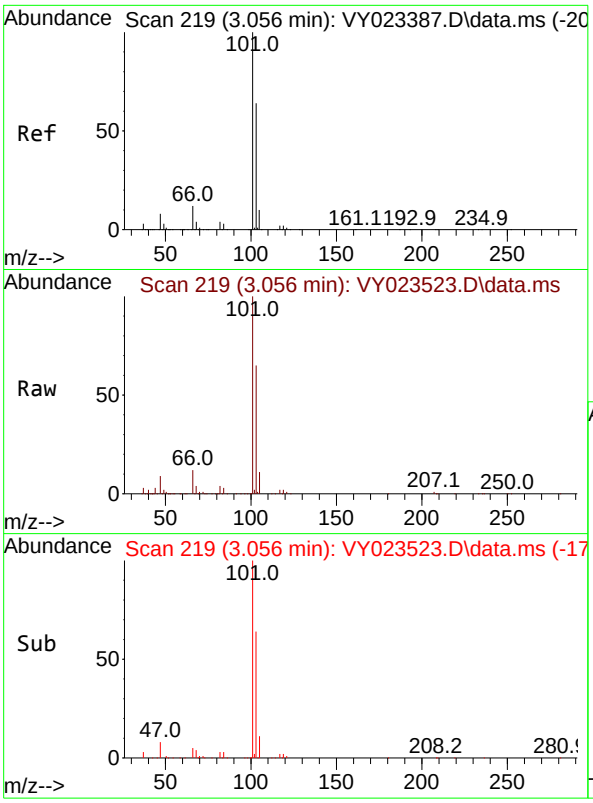


#6
Chloroethane
Concen: 21.197 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 64 Resp: 91163

Ion	Ratio	Lower	Upper
64	100		
66	32.3	26.2	39.4

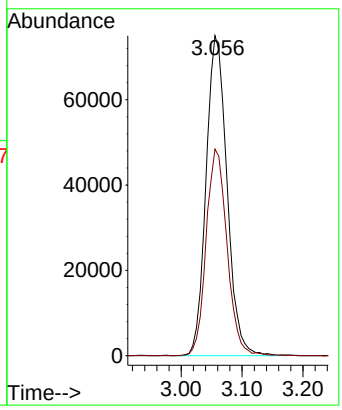




#7
Trichlorofluoromethane
Concen: 20.441 ug/l
RT: 3.056 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:101 Resp: 17906

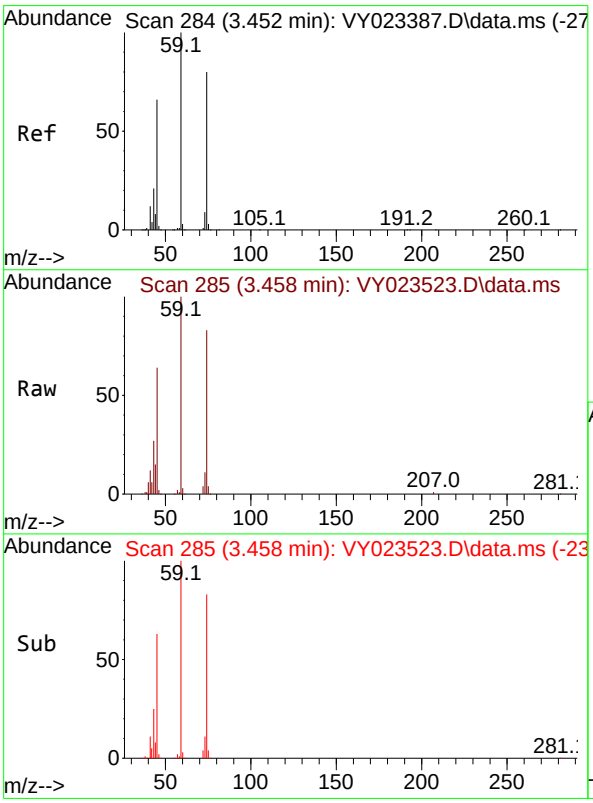
Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.3	76.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

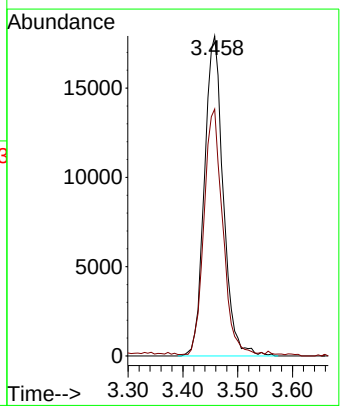
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

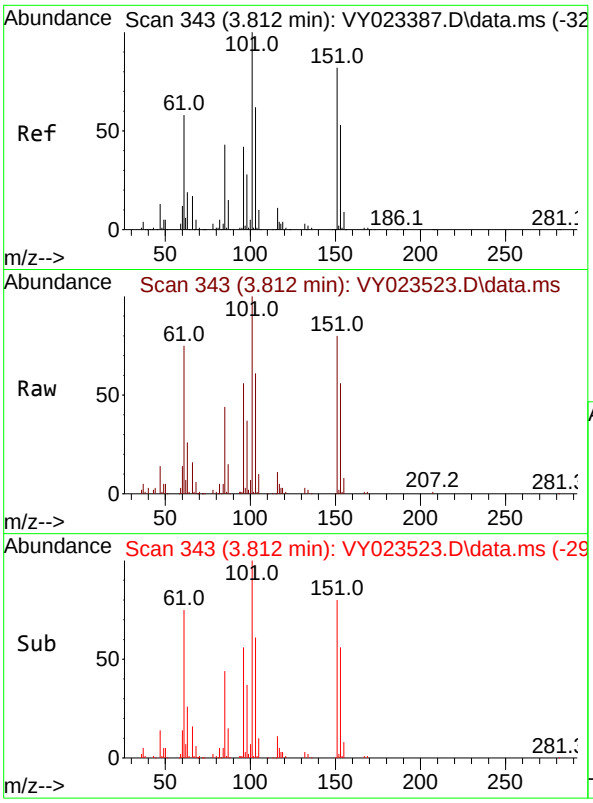


#8
Diethyl Ether
Concen: 18.626 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 74 Resp: 42637

Ion	Ratio	Lower	Upper
74	100		
45	75.8	39.9	119.7





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.136 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

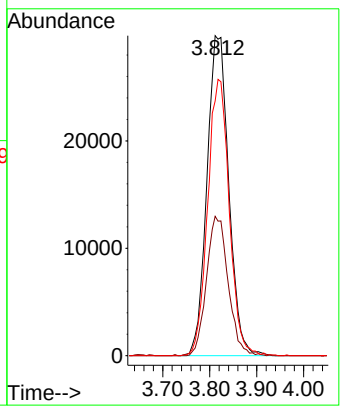
Tgt Ion:101 Resp: 9608

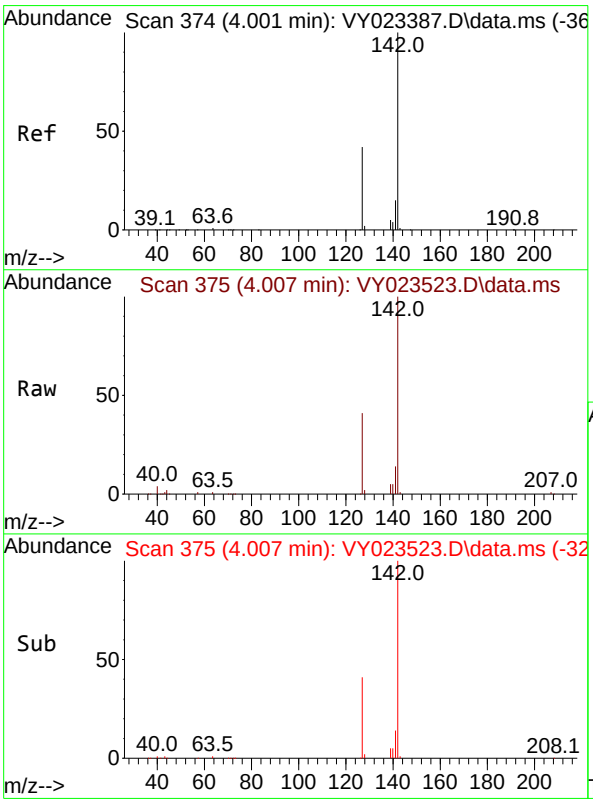
Ion	Ratio	Lower	Upper
101	100		
85	43.2	34.6	51.8
151	85.5	67.0	100.6

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

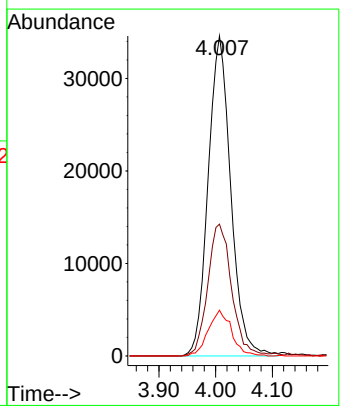


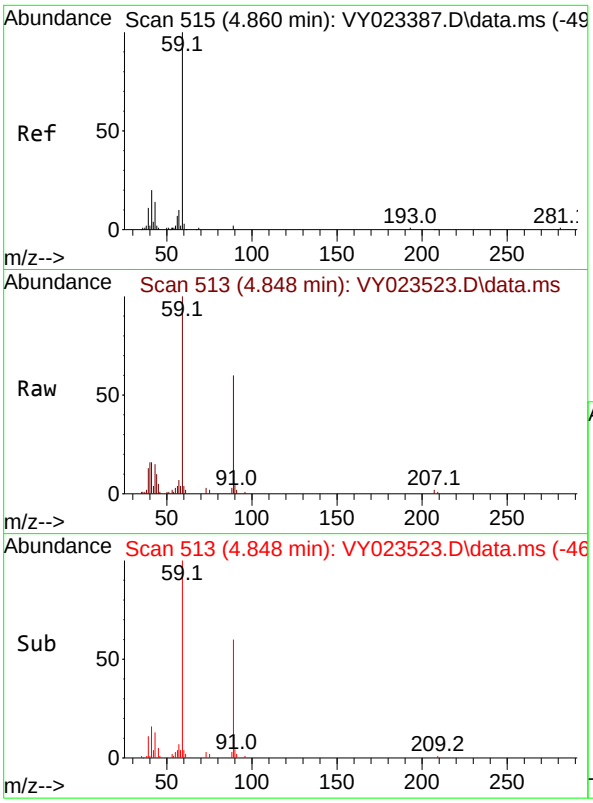


#10
Methyl Iodide
Concen: 18.966 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:142 Resp: 95981

Ion	Ratio	Lower	Upper
142	100		
127	43.8	34.8	52.2
141	14.7	11.6	17.4

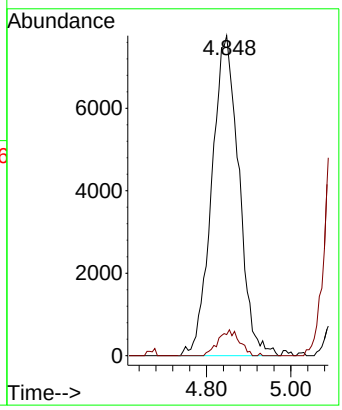




#11
Tert butyl alcohol
Concen: 112.428 ug/l
RT: 4.848 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 59 Resp: 3455

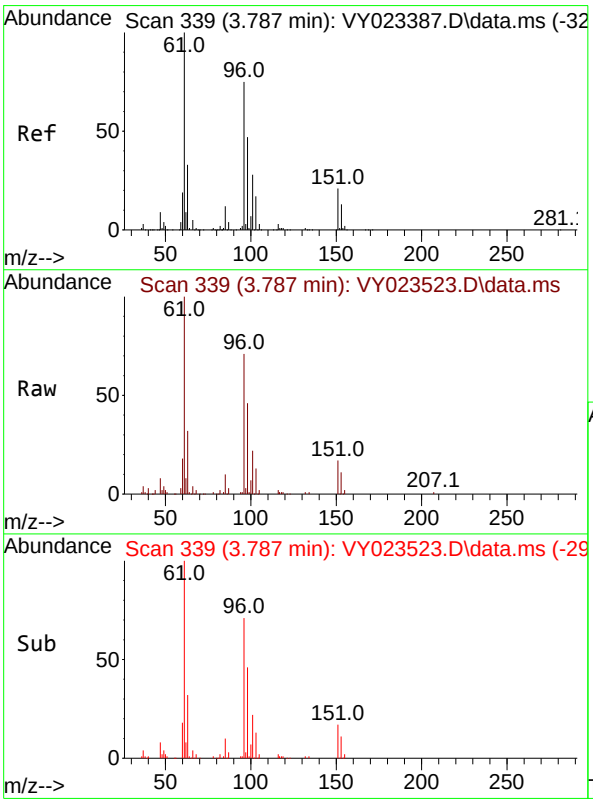
Ion	Ratio	Lower	Upper
59	100		
57	6.3	8.3	12.5#



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

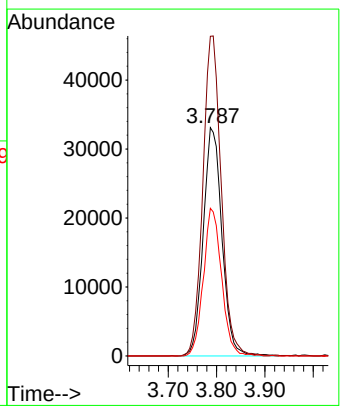
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

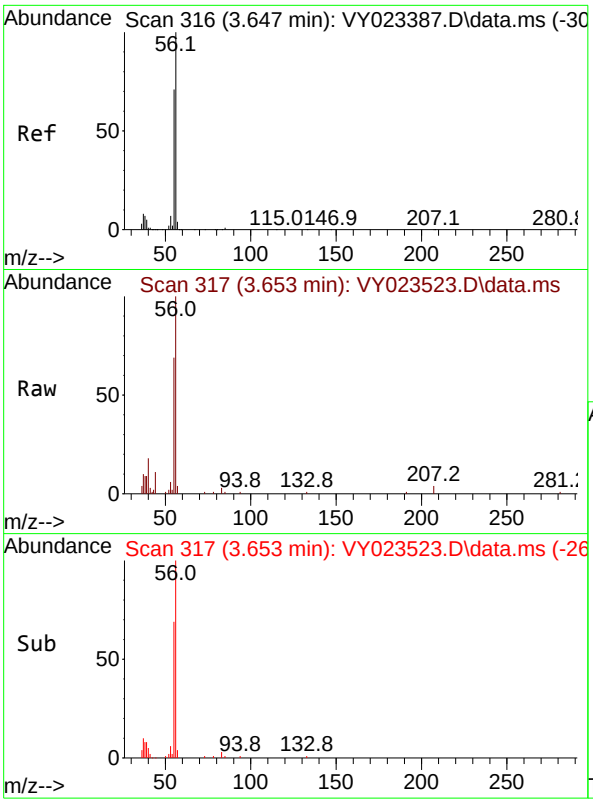


#12
1,1-Dichloroethene
Concen: 20.198 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 96 Resp: 89008

Ion	Ratio	Lower	Upper
96	100		
61	140.0	106.7	160.1
98	64.7	50.2	75.4

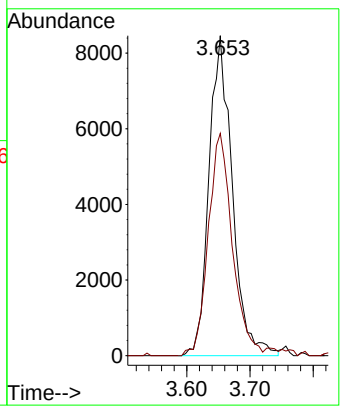




#13
Acrolein
Concen: 49.768 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 56 Resp: 2161

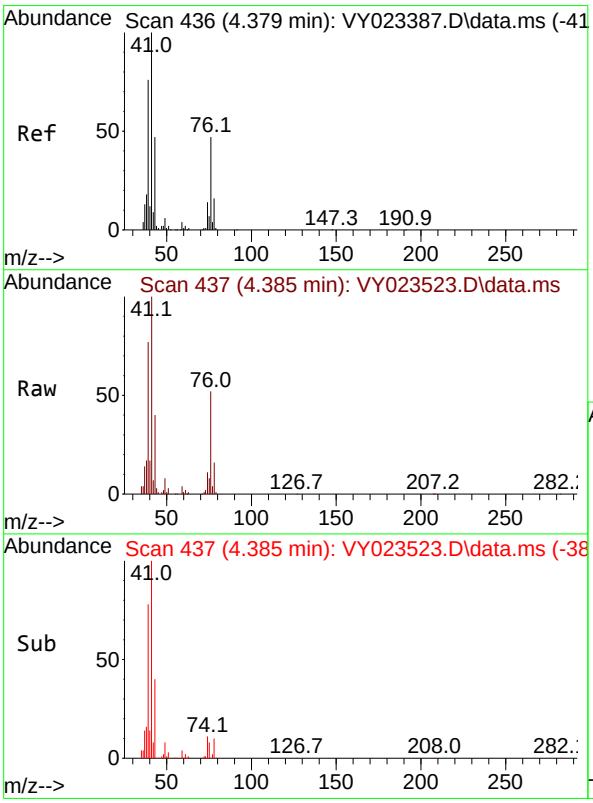
Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.1	84.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

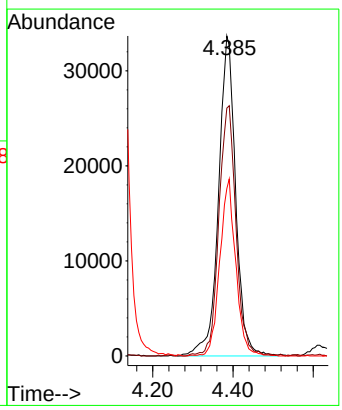
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

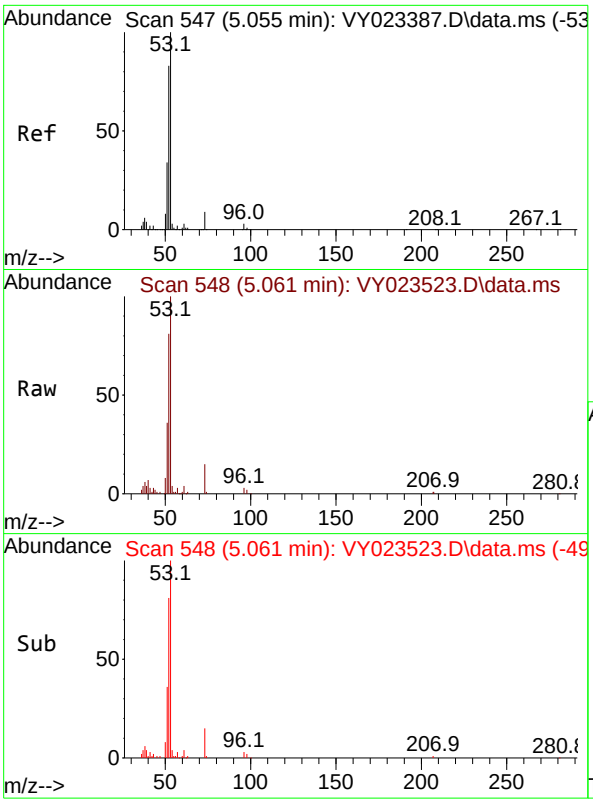


#14
Allyl chloride
Concen: 18.606 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 41 Resp: 99926

Ion	Ratio	Lower	Upper
41	100		
39	77.9	59.9	89.9
76	51.4	38.0	57.0

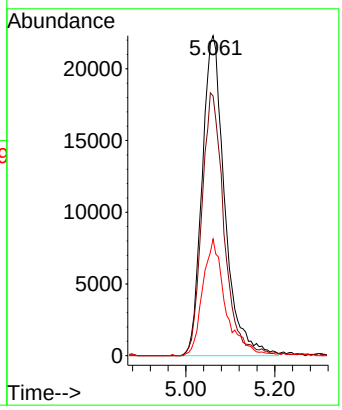




#15
Acrylonitrile
Concen: 90.228 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 53 Resp: 7904

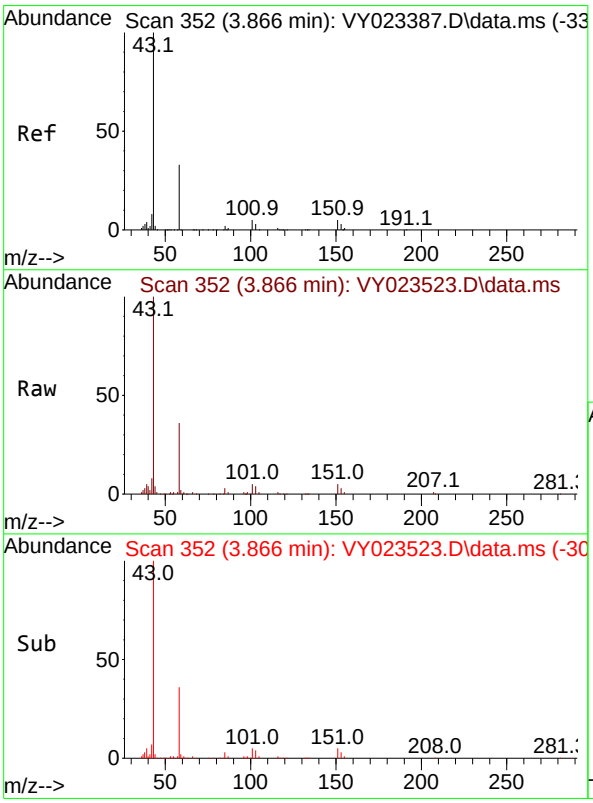
Ion	Ratio	Lower	Upper
53	100		
52	80.1	64.6	97.0
51	36.9	29.5	44.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

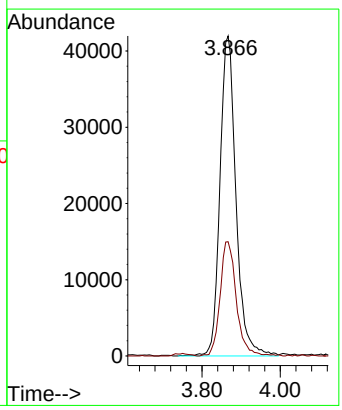
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

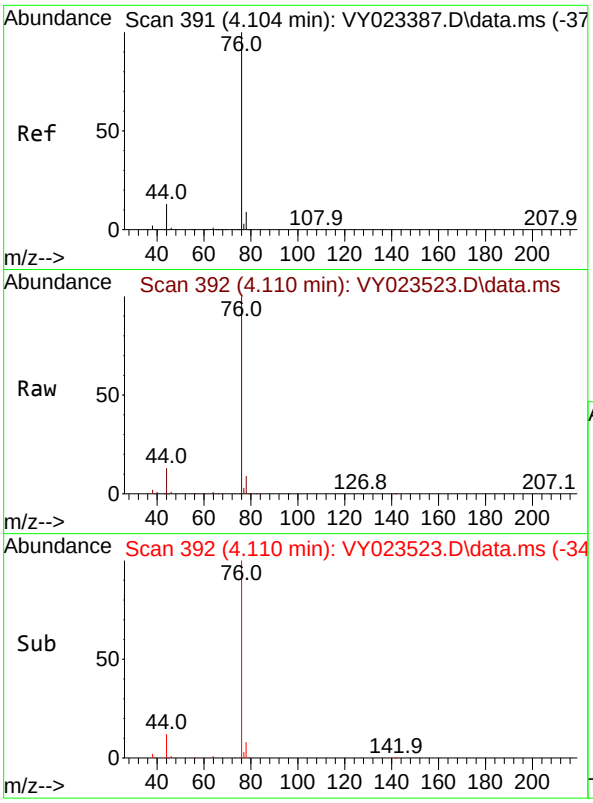


#16
Acetone
Concen: 121.387 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 43 Resp: 119380

Ion	Ratio	Lower	Upper
43	100		
58	35.3	27.7	41.5

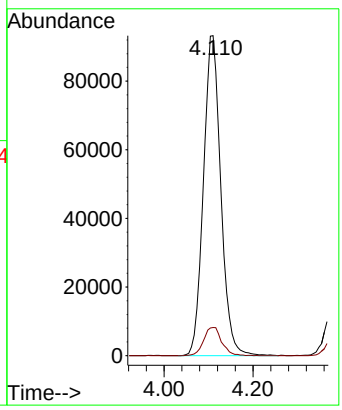




#17
Carbon Disulfide
Concen: 20.152 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 76 Resp: 25417

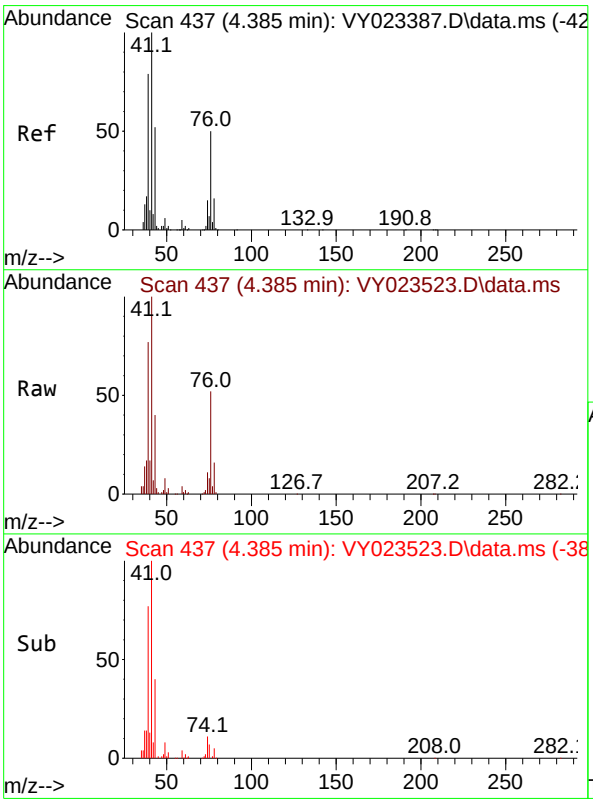
Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.3	10.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

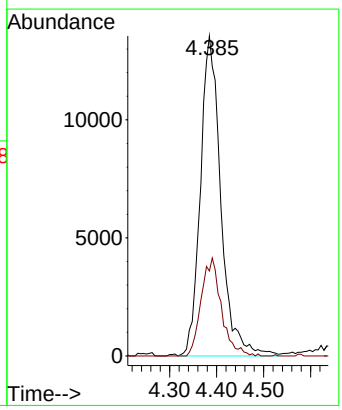
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

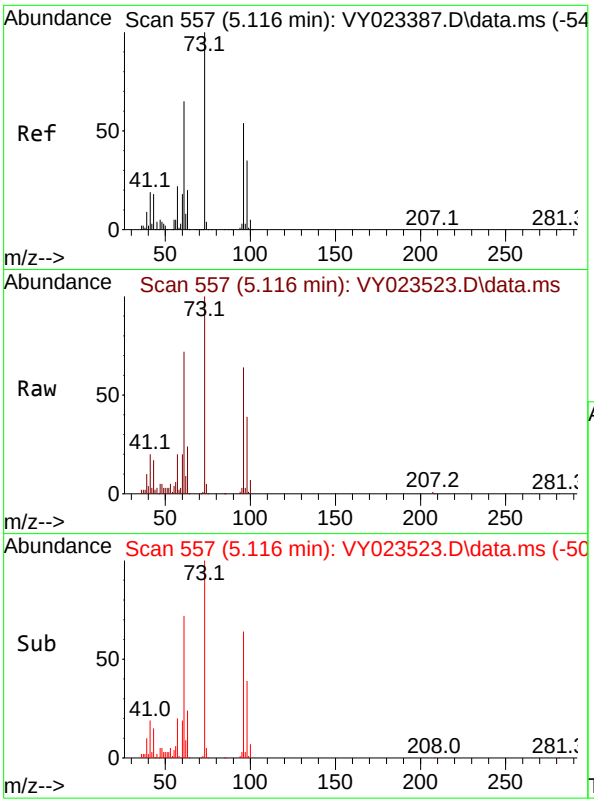


#18
Methyl Acetate
Concen: 15.874 ug/l
RT: 4.385 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 43 Resp: 40953

Ion	Ratio	Lower	Upper
43	100		
74	30.1	24.2	36.4

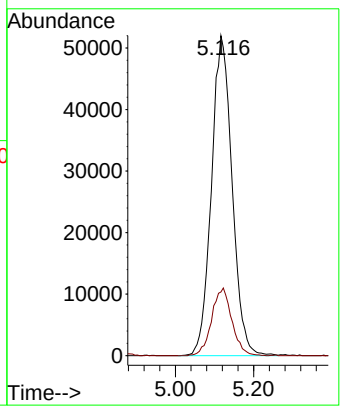




#19
Methyl tert-butyl Ether
Concen: 17.999 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 73 Resp: 19063

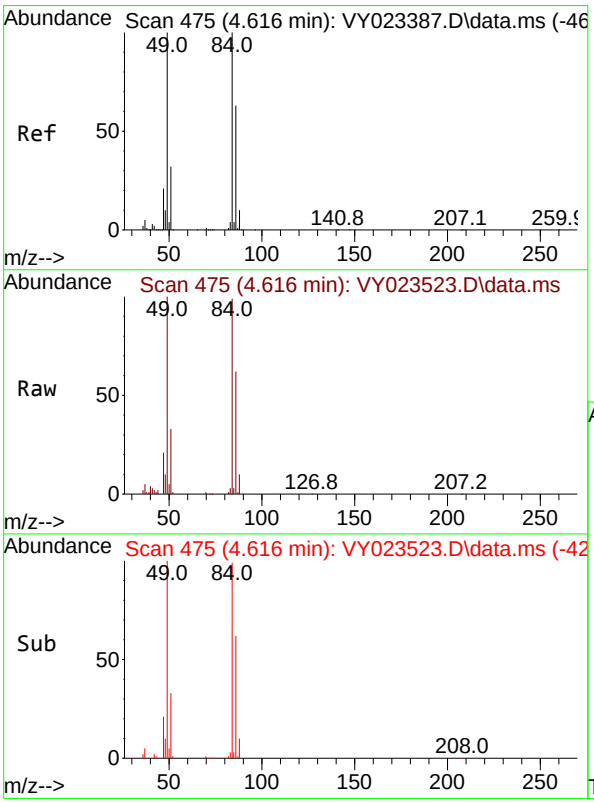
Ion	Ratio	Lower	Upper
73	100		
57	19.9	17.4	26.0



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

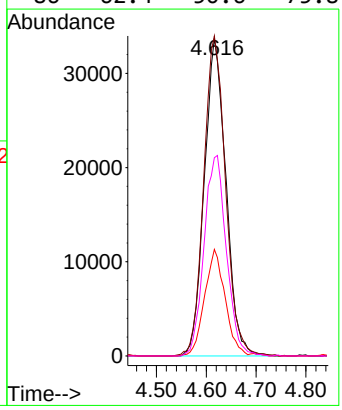
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

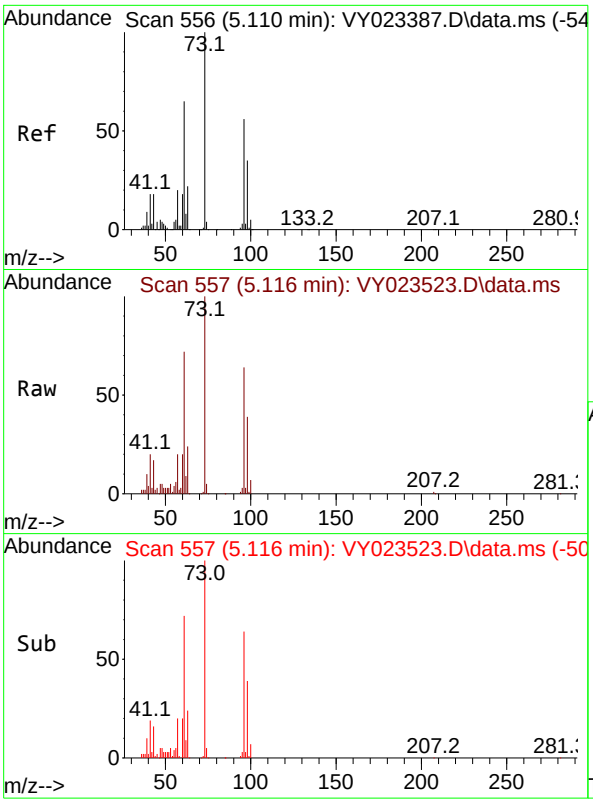


#20
Methylene Chloride
Concen: 19.041 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 84 Resp: 101259

Ion	Ratio	Lower	Upper
84	100		
49	100.7	80.2	120.4
51	33.6	25.9	38.9
86	62.4	50.6	75.8

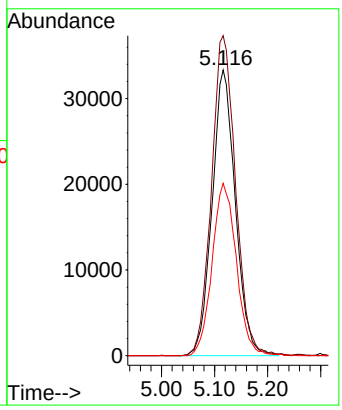




#21
trans-1,2-Dichloroethene
Concen: 20.955 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

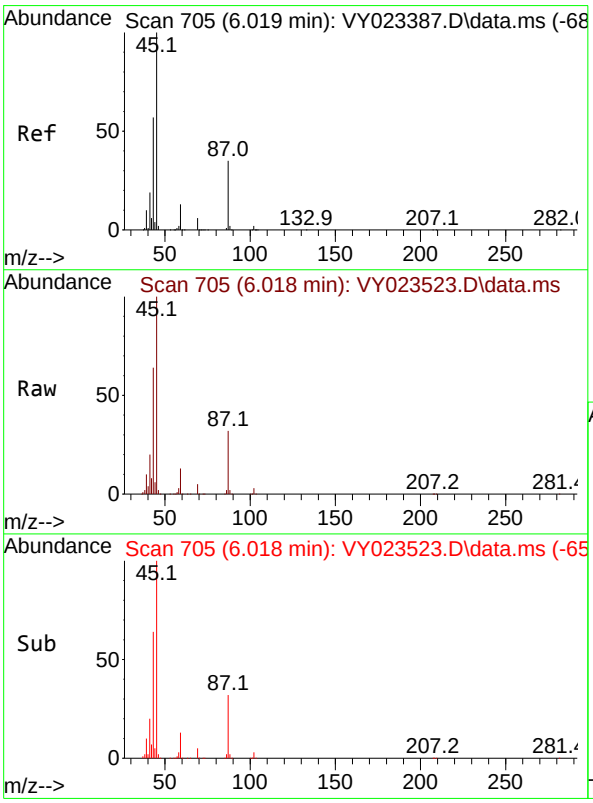
Tgt Ion: 96 Resp: 10166

Ion	Ratio	Lower	Upper
96	100		
61	112.0	92.7	139.1
98	60.3	49.7	74.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

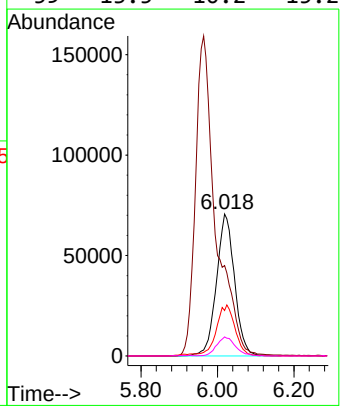
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

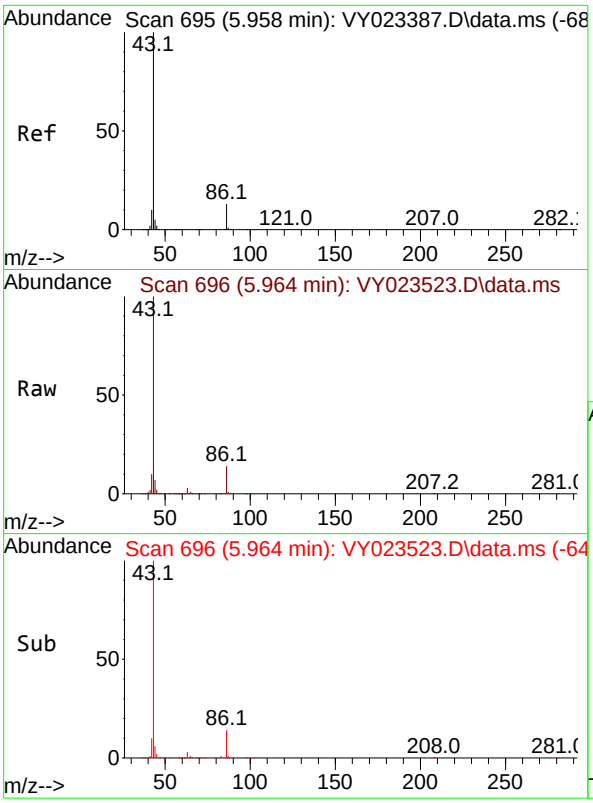


#22
Diisopropyl ether
Concen: 19.559 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 45 Resp: 232353

Ion	Ratio	Lower	Upper
45	100		
43	63.5	45.6	68.4
87	32.0	28.1	42.1
59	13.5	10.2	15.2

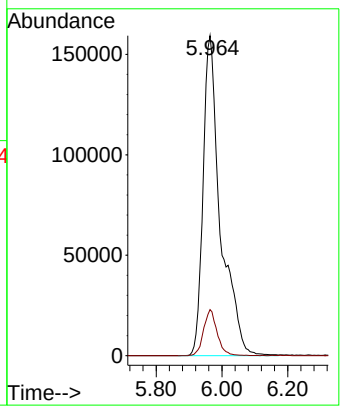




#23
Vinyl Acetate
Concen: 91.178 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 43 Resp: 58628

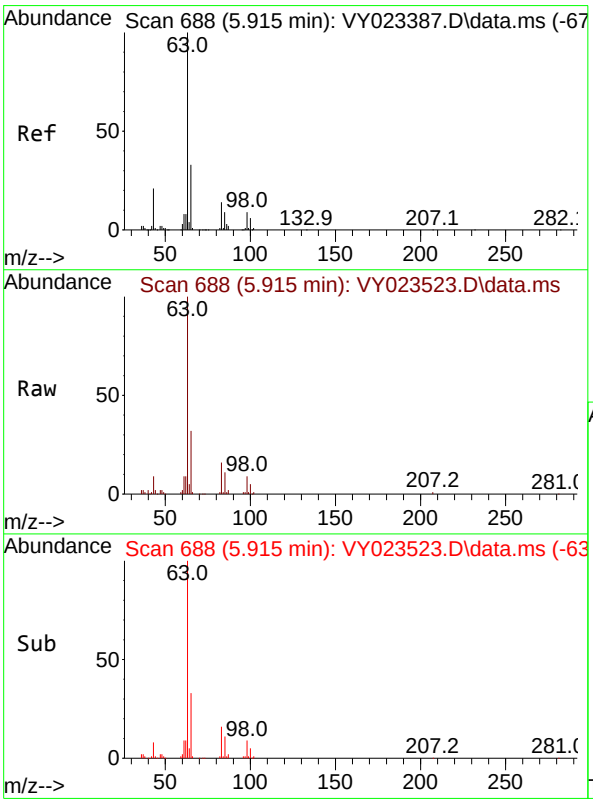
Ion	Ratio	Lower	Upper
43	100		
86	14.4	10.6	15.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

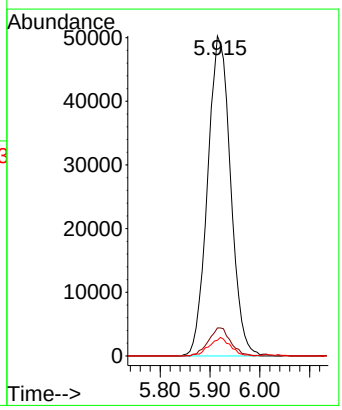
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

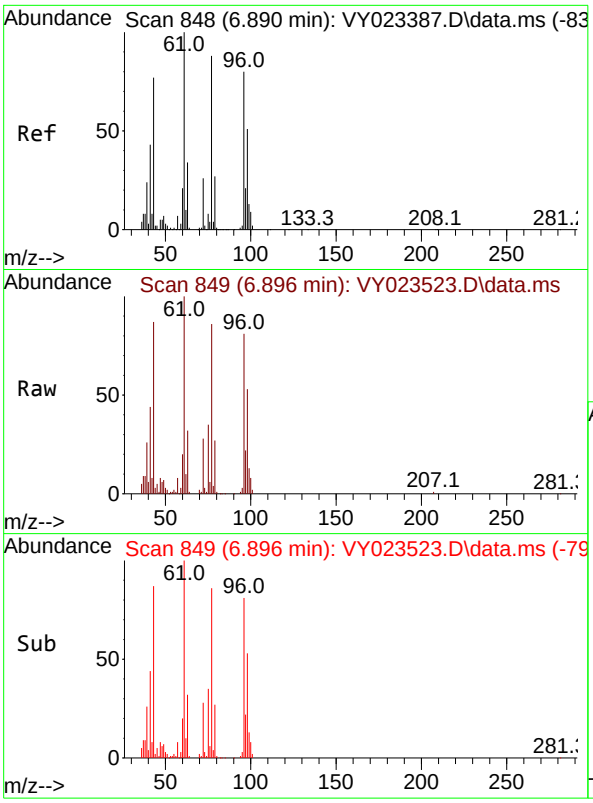


#24
1,1-Dichloroethane
Concen: 20.465 ug/l
RT: 5.915 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 63 Resp: 161044

Ion	Ratio	Lower	Upper
63	100		
98	8.8	4.3	13.1
100	4.9	2.8	8.4





#25
2-Butanone
Concen: 101.820 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

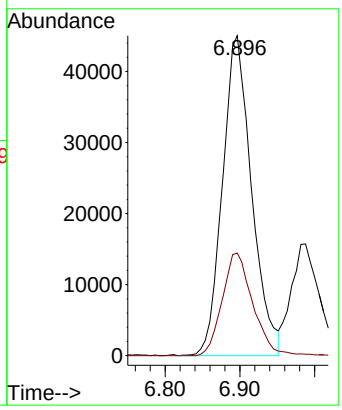
Tgt Ion: 43 Resp: 12225

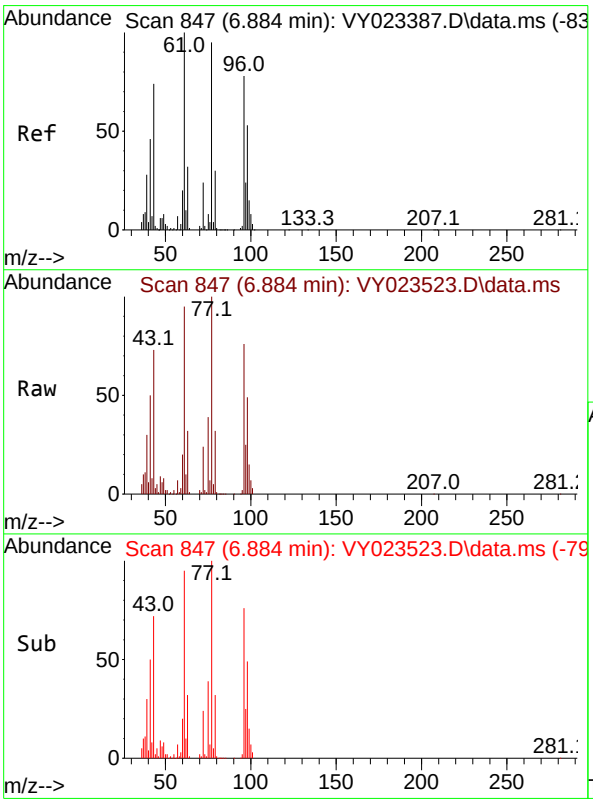
Ion	Ratio	Lower	Upper
43	100		
72	32.1	27.4	41.2

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

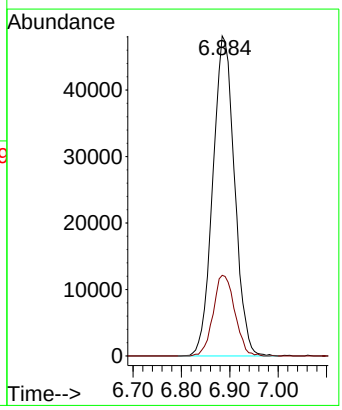


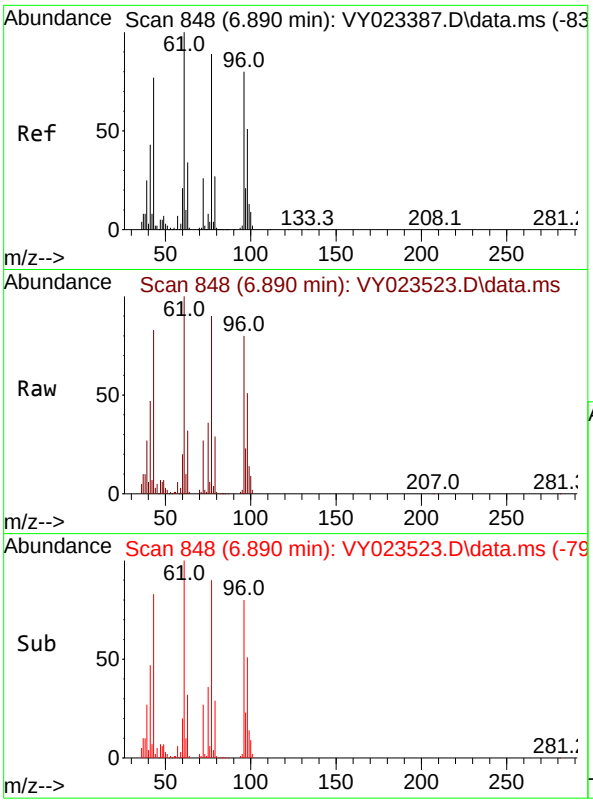


#26
2,2-Dichloropropane
Concen: 20.766 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 77 Resp: 149940

Ion	Ratio	Lower	Upper
77	100		
97	25.1	12.1	36.3





#27
cis-1,2-Dichloroethene
Concen: 20.682 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

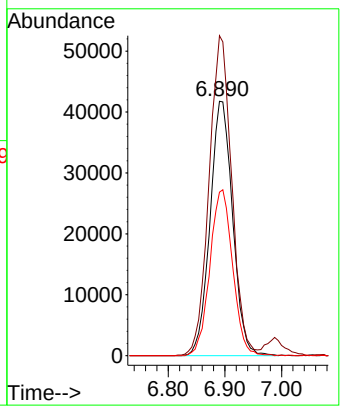
Tgt Ion: 96 Resp: 11590

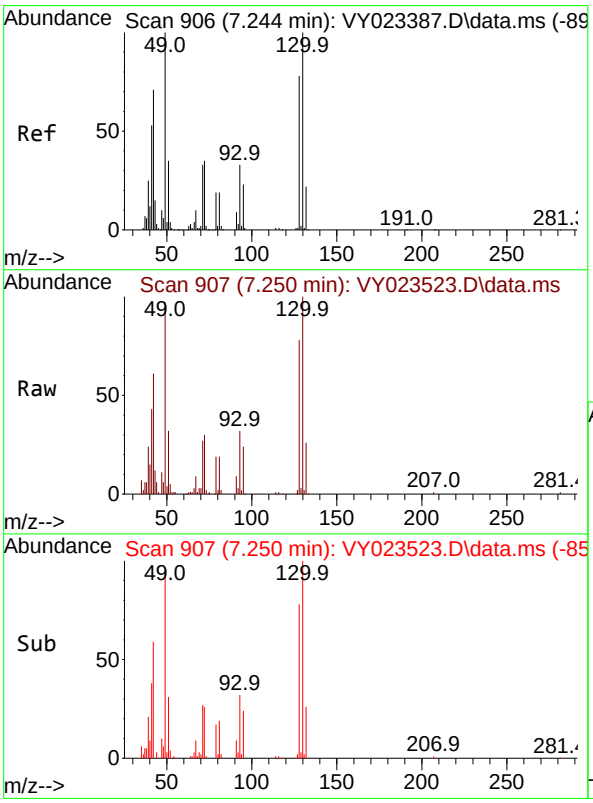
Ion	Ratio	Lower	Upper
96	100		
61	125.9	0.0	258.2
98	65.5	0.0	132.0

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

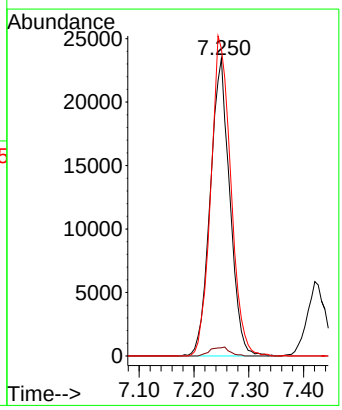


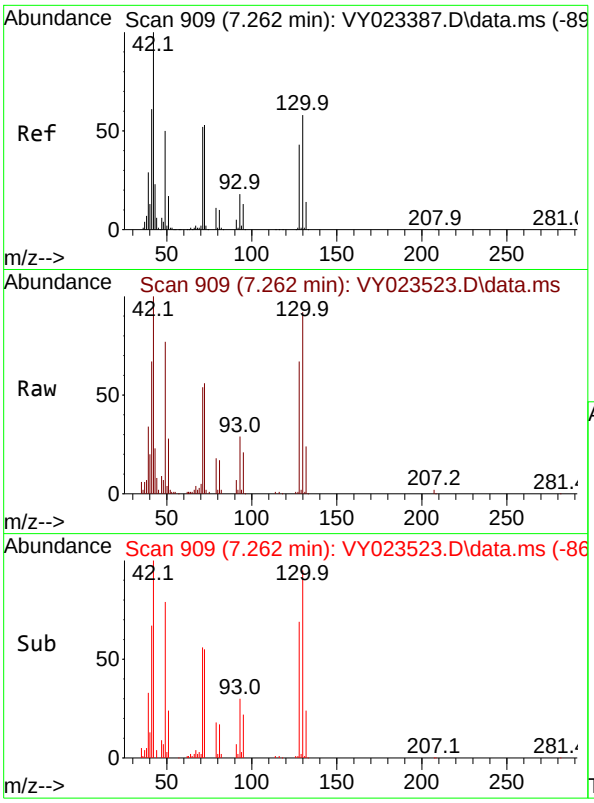


#28
Bromochloromethane
Concen: 19.715 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 49 Resp: 57916

Ion	Ratio	Lower	Upper
49	100		
129	3.0	0.0	5.6
130	109.9	81.9	122.9

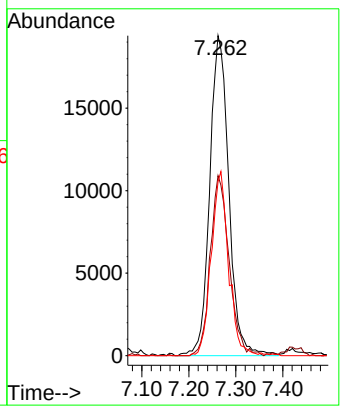




#29
Tetrahydrofuran
Concen: 80.322 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 42 Resp: 5468

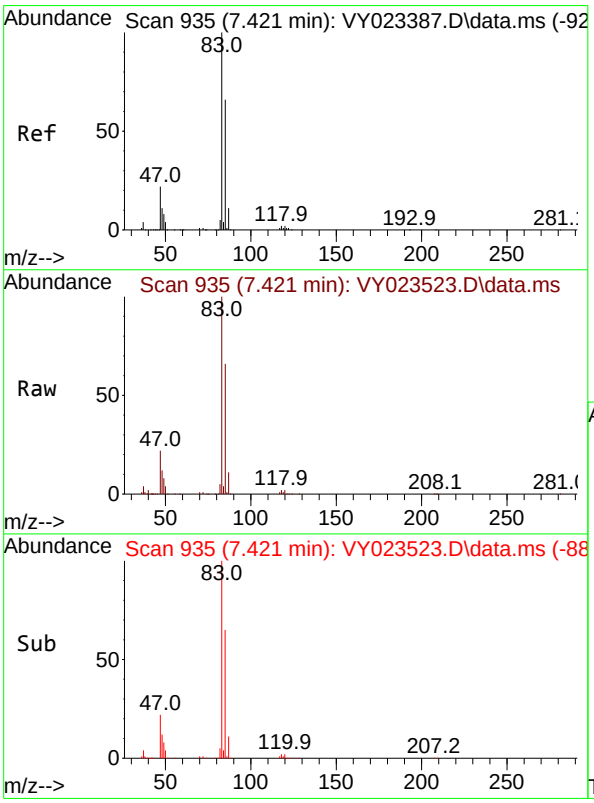
Ion	Ratio	Lower	Upper
42	100		
72	55.6	43.0	64.6
71	52.1	40.1	60.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

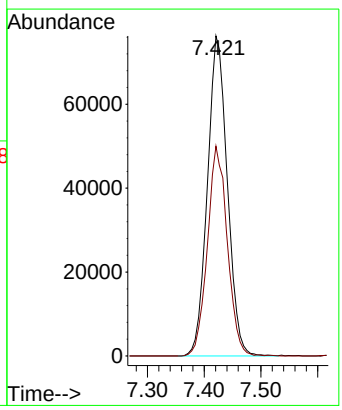
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

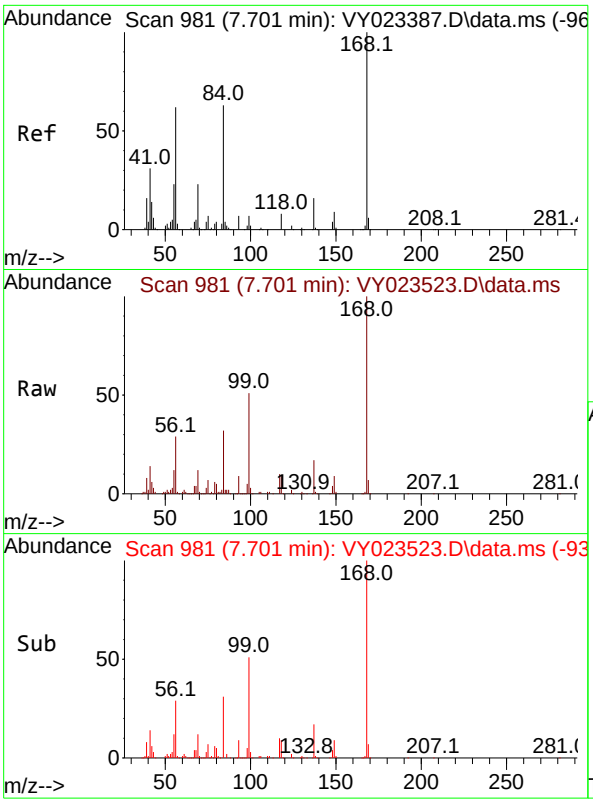


#30
Chloroform
Concen: 21.521 ug/l
RT: 7.421 min Scan# 935
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 83 Resp: 186069

Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.5	78.7

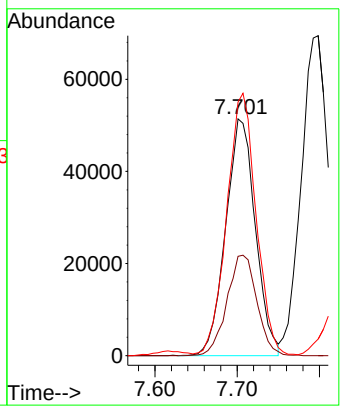




#31
Cyclohexane
Concen: 18.787 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 56 Resp: 12910

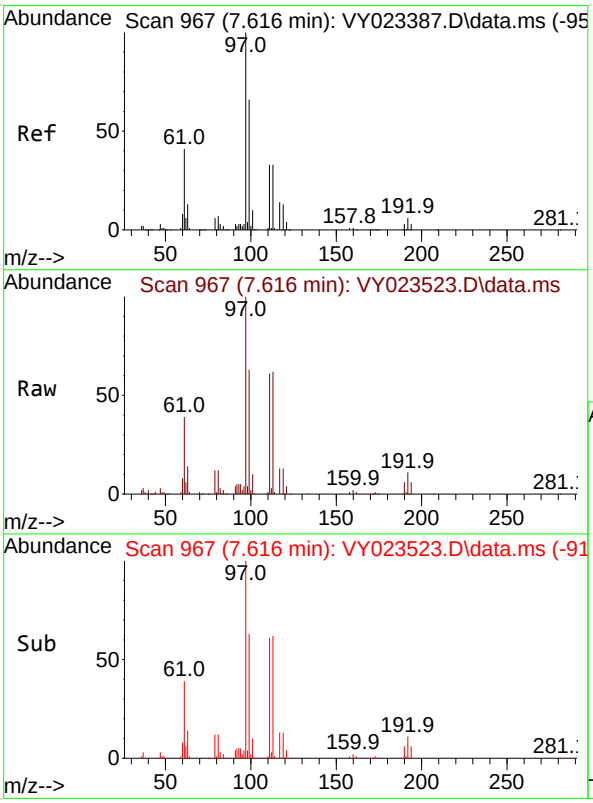
Ion	Ratio	Lower	Upper
56	100		
69	41.9	30.0	45.0
84	105.3	81.2	121.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

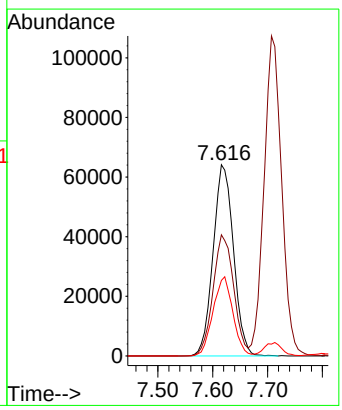
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

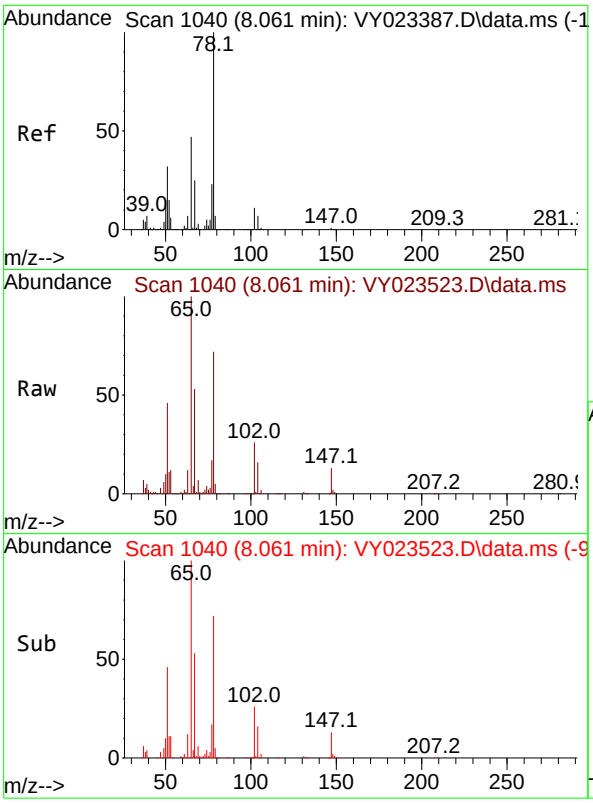


#32
1,1,1-Trichloroethane
Concen: 21.099 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 97 Resp: 165772

Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.4	77.2
61	40.3	31.9	47.9

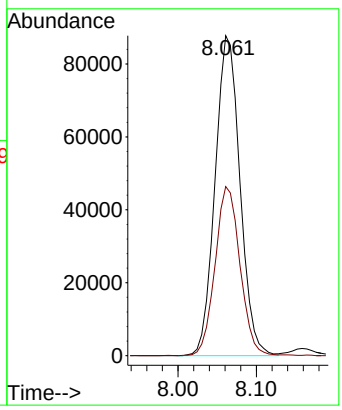




#33
1,2-Dichloroethane-d4
Concen: 46.930 ug/l
RT: 8.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 65 Resp: 19387

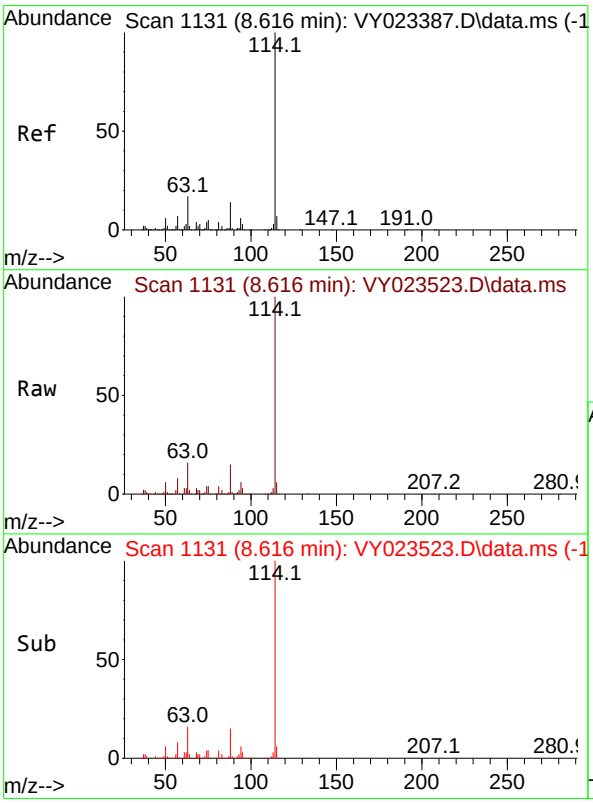
Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	105.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

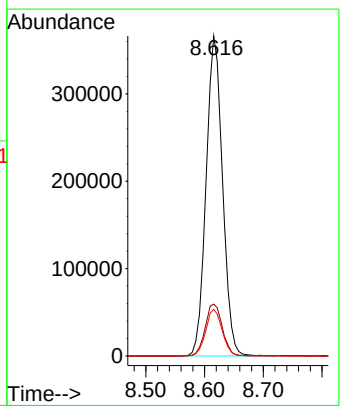
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

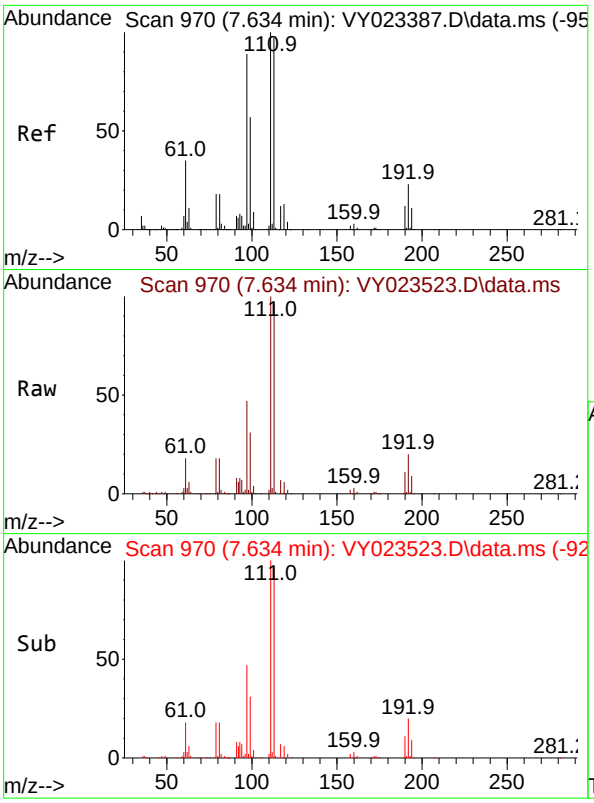


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:114 Resp: 712868

Ion	Ratio	Lower	Upper
114	100		
63	16.2	0.0	34.2
88	14.6	0.0	28.4

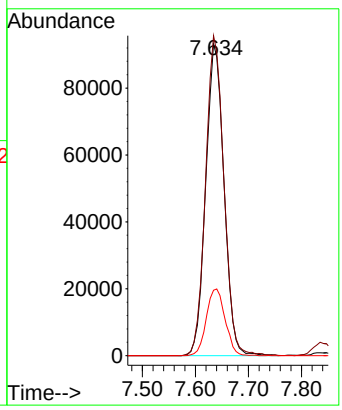




#35
Dibromofluoromethane
Concen: 50.907 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:113 Resp: 22298

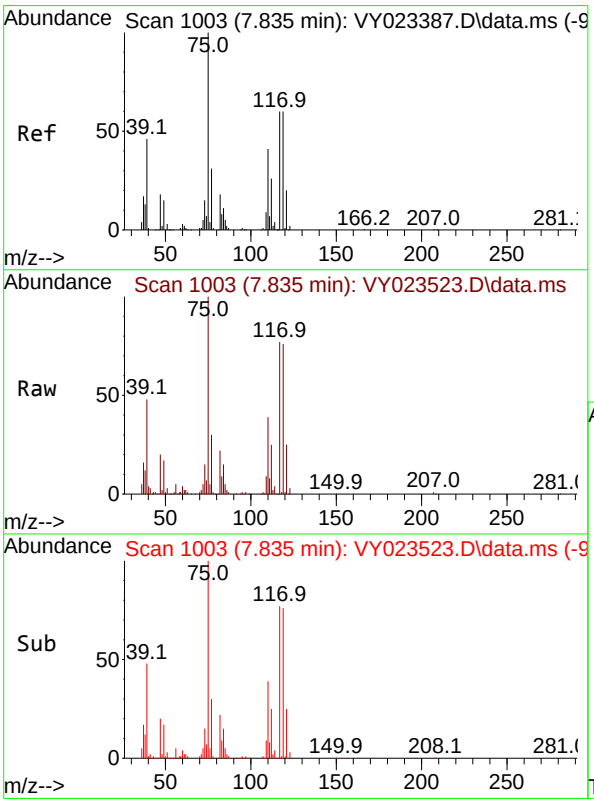
Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.8	122.6
192	22.1	18.0	27.0



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

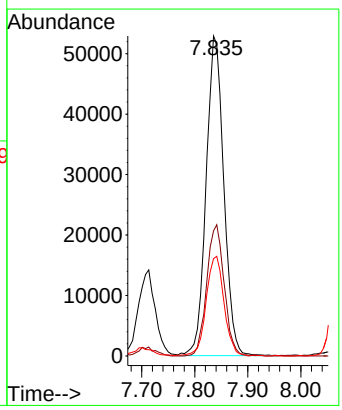
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

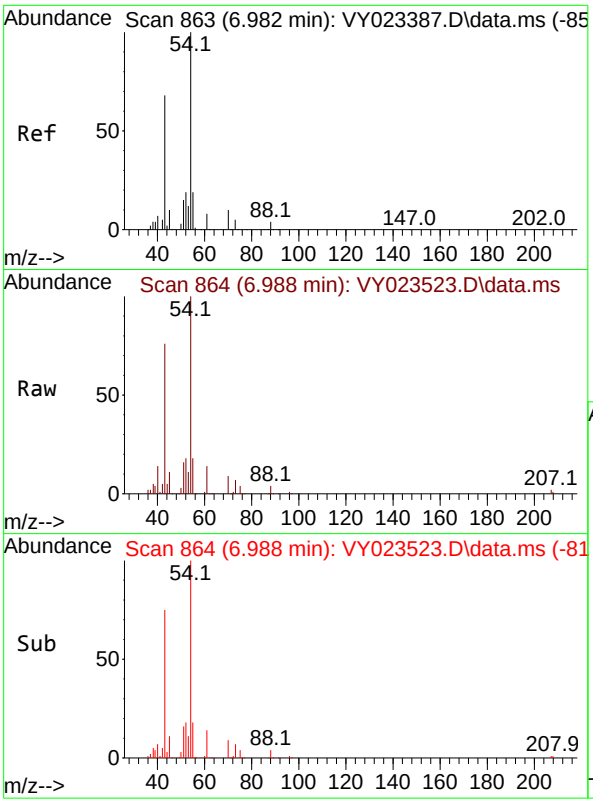


#36
1,1-Dichloropropene
Concen: 21.126 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 75 Resp: 122511

Ion	Ratio	Lower	Upper
75	100		
110	40.6	19.9	59.7
77	31.6	25.0	37.6





#37
Ethyl Acetate
Concen: 18.518 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

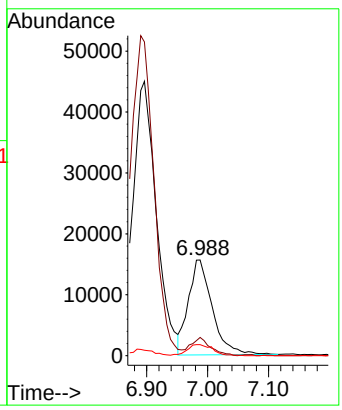
Tgt Ion: 43 Resp: 4254

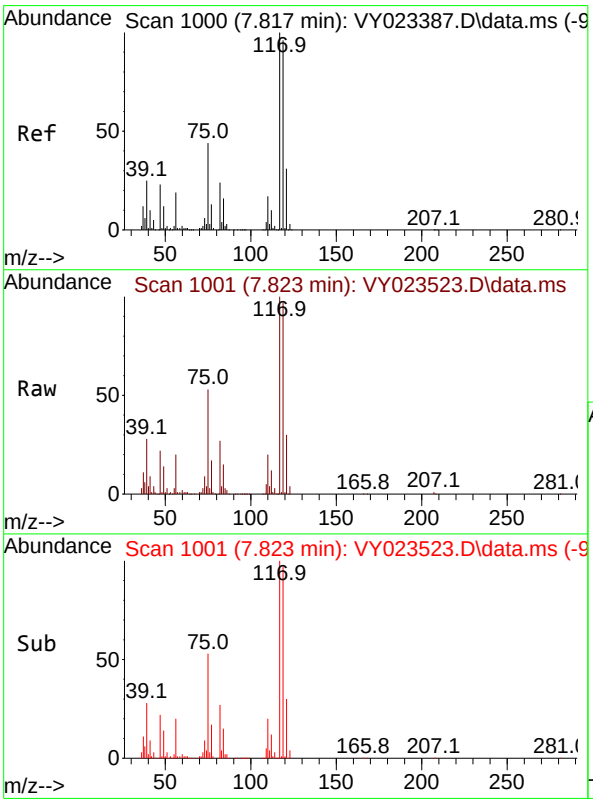
Ion	Ratio	Lower	Upper
43	100		
61	15.9	11.8	17.8
70	12.5	10.5	15.7

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

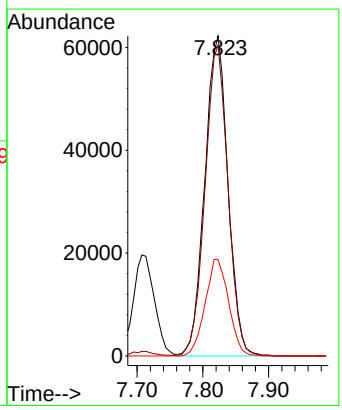


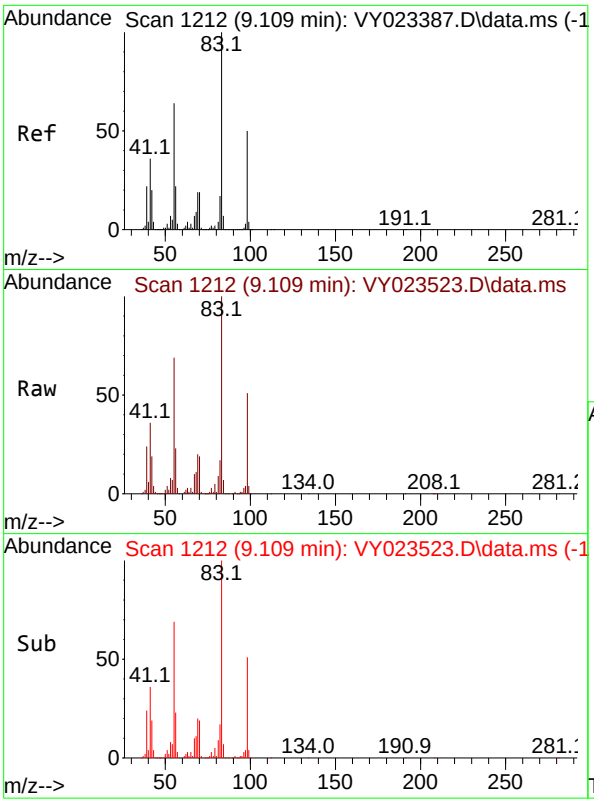


#38
Carbon Tetrachloride
Concen: 21.746 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:117 Resp: 152907

Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.8	115.2
121	30.1	24.5	36.7

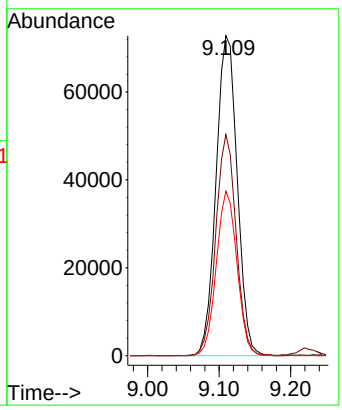




#39
Methylcyclohexane
Concen: 19.842 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

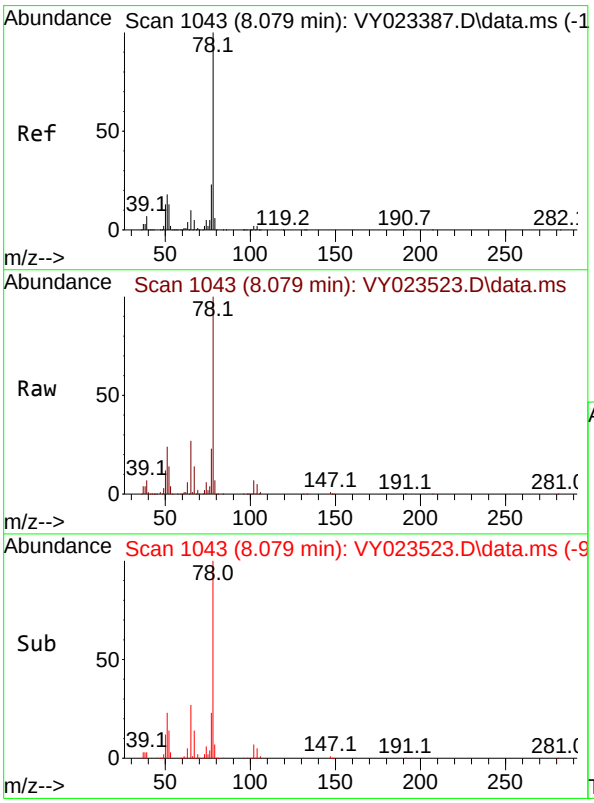
Tgt Ion: 83 Resp: 14981

Ion	Ratio	Lower	Upper
83	100		
55	69.0	51.4	77.2
98	51.4	40.4	60.6



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

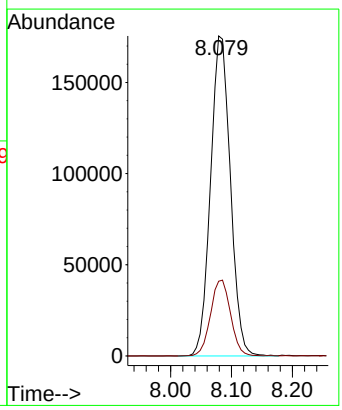
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

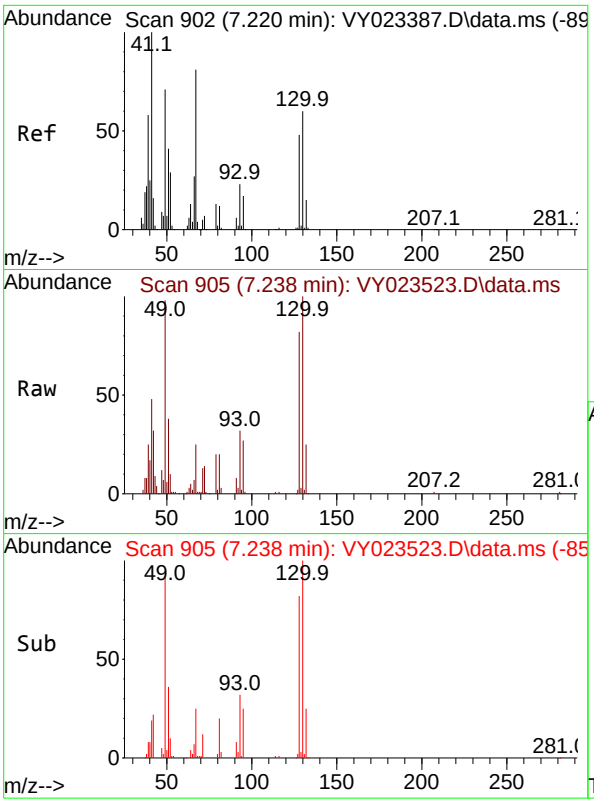


#40
Benzene
Concen: 21.591 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 78 Resp: 396525

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.3	27.5

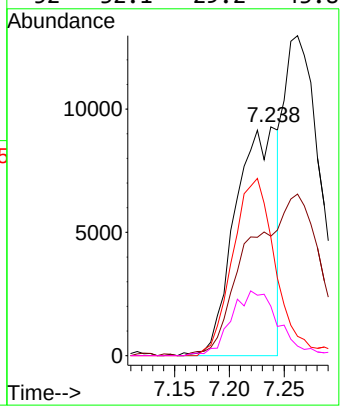




#41
Methacrylonitrile
Concen: 20.069 ug/l m
RT: 7.238 min Scan# 9(
Delta R.T. 0.018 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 41 Resp: 2493(

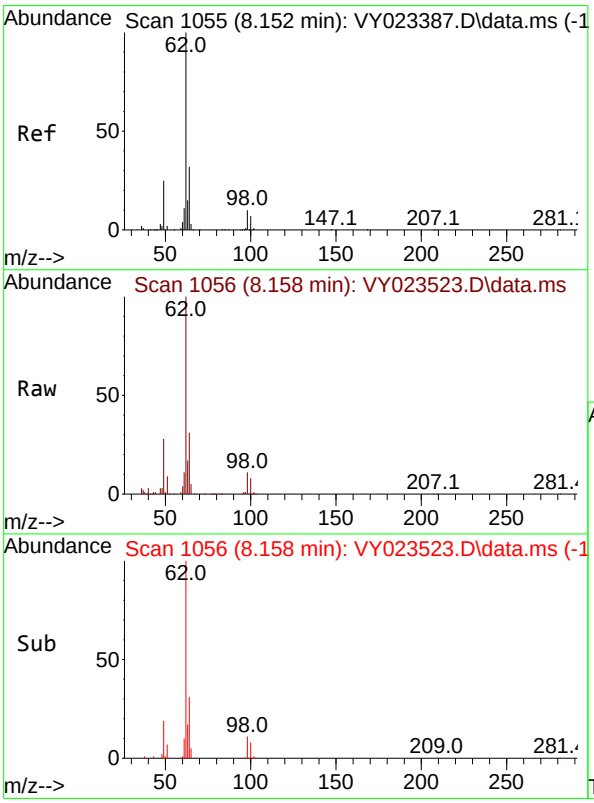
Ion	Ratio	Lower	Upper
41	100		
39	0.0	52.2	78.4
67	80.1	74.9	112.3
52	32.1	29.2	43.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

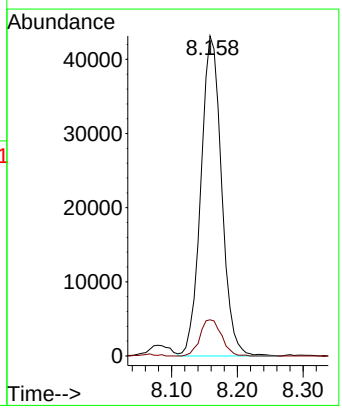
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

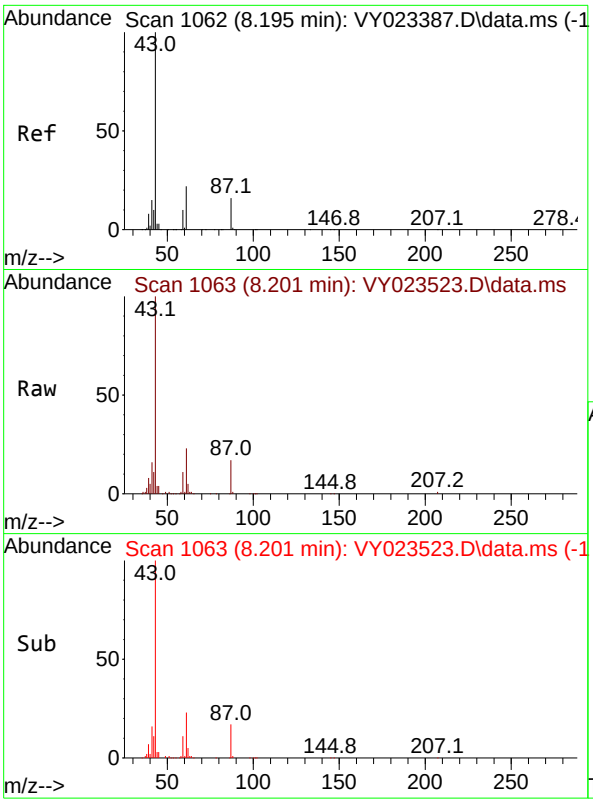


#42
1,2-Dichloroethane
Concen: 19.985 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 62 Resp: 94656

Ion	Ratio	Lower	Upper
62	100		
98	11.8	0.0	21.6





#43
Isopropyl Acetate
Concen: 17.322 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

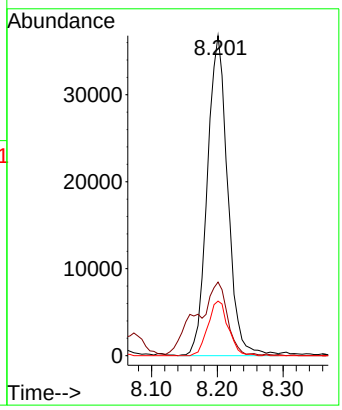
Tgt Ion: 43 Resp: 7935

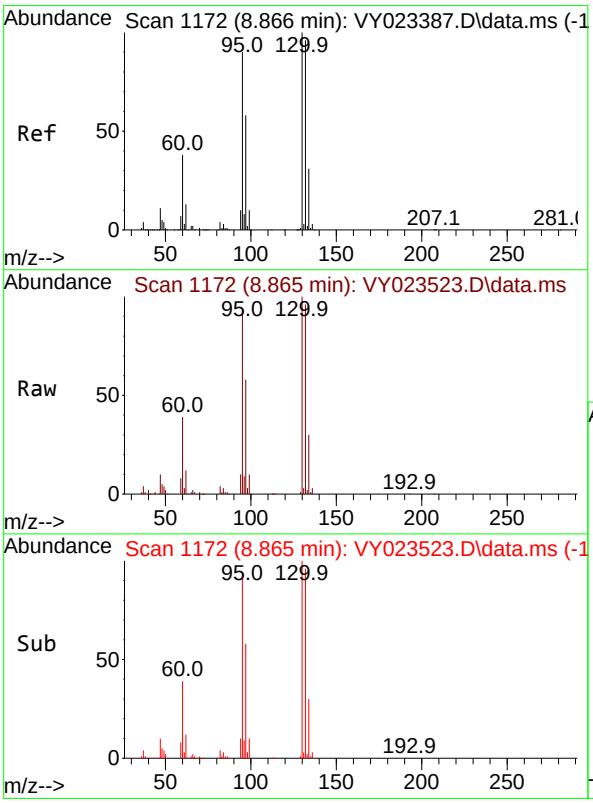
Ion	Ratio	Lower	Upper
43	100		
61	21.5	18.1	27.1
87	17.0	13.5	20.3

Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

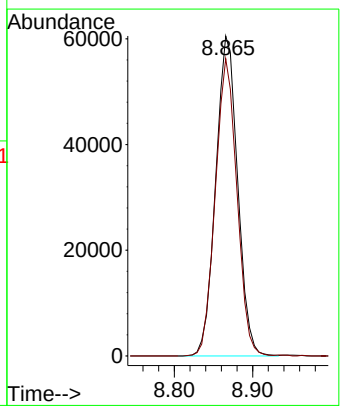


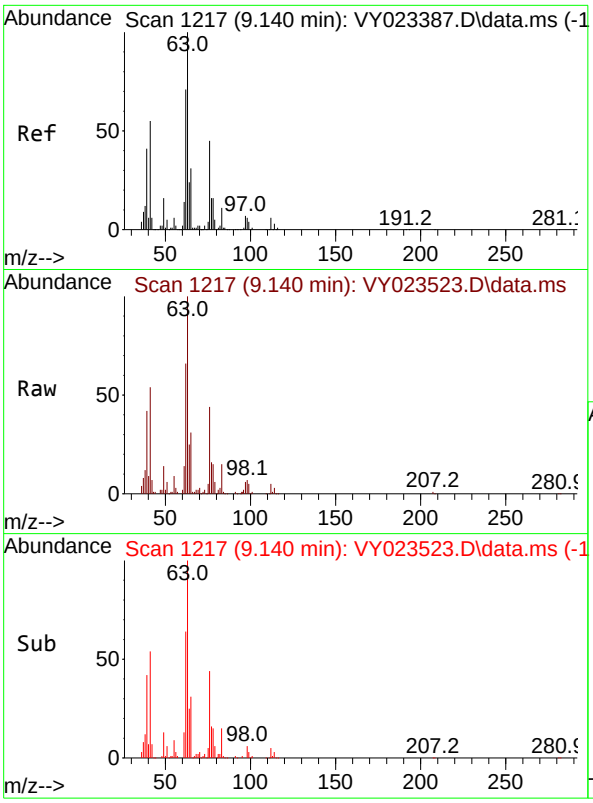


#44
Trichloroethene
Concen: 21.916 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:130 Resp: 117801

Ion	Ratio	Lower	Upper
130	100		
95	92.9	0.0	180.6

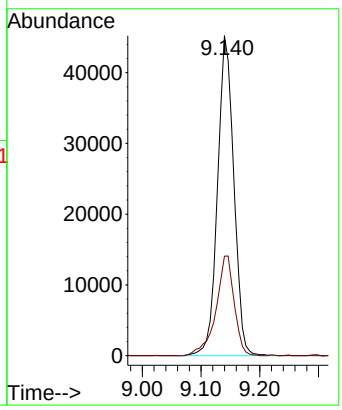




#45
1,2-Dichloropropane
Concen: 21.475 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 63 Resp: 8710

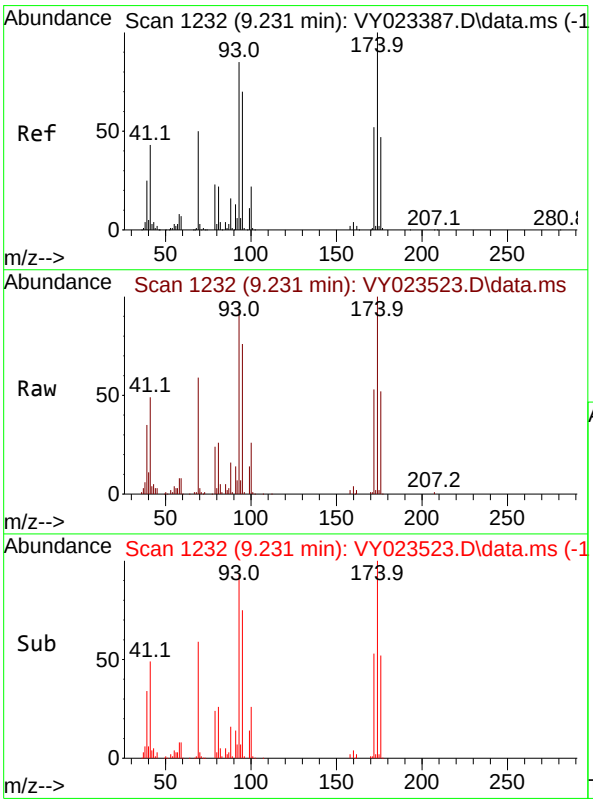
Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.9	37.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

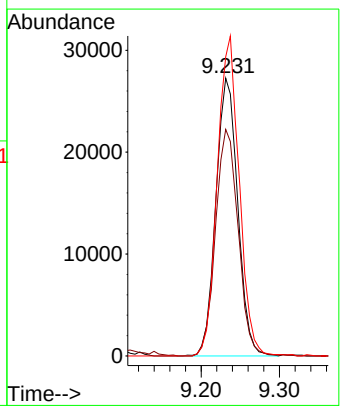
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

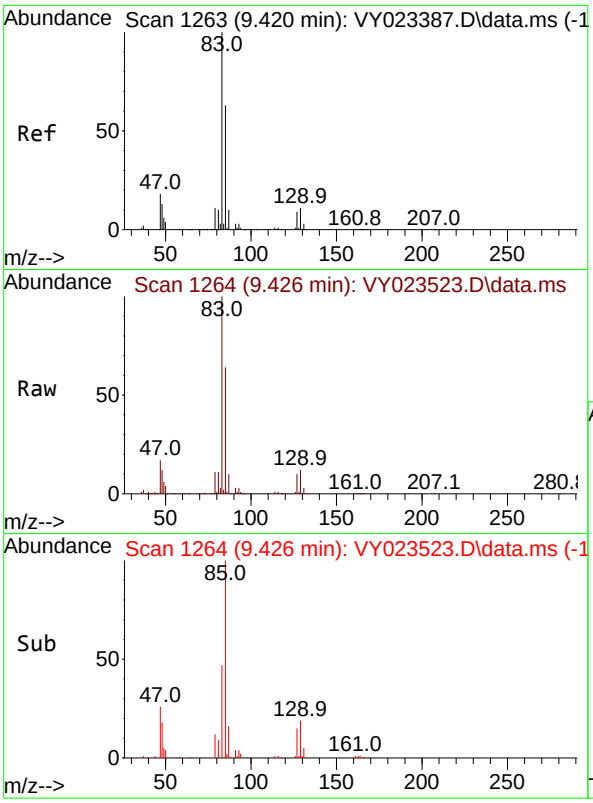


#46
Dibromomethane
Concen: 20.610 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 93 Resp: 52865

Ion	Ratio	Lower	Upper
93	100		
95	84.4	65.4	98.0
174	115.6	92.9	139.3

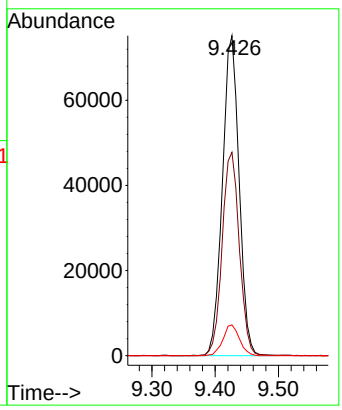




#47
Bromodichloromethane
Concen: 21.284 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 83 Resp: 13749

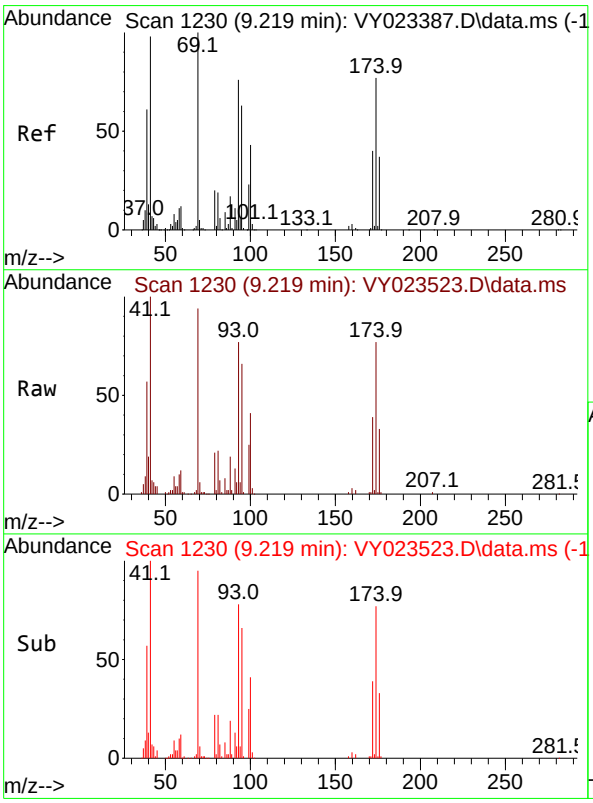
Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.8	76.2
127	9.6	7.4	11.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

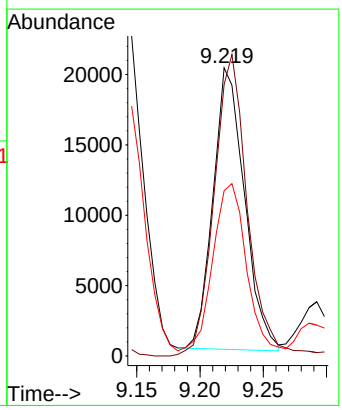
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

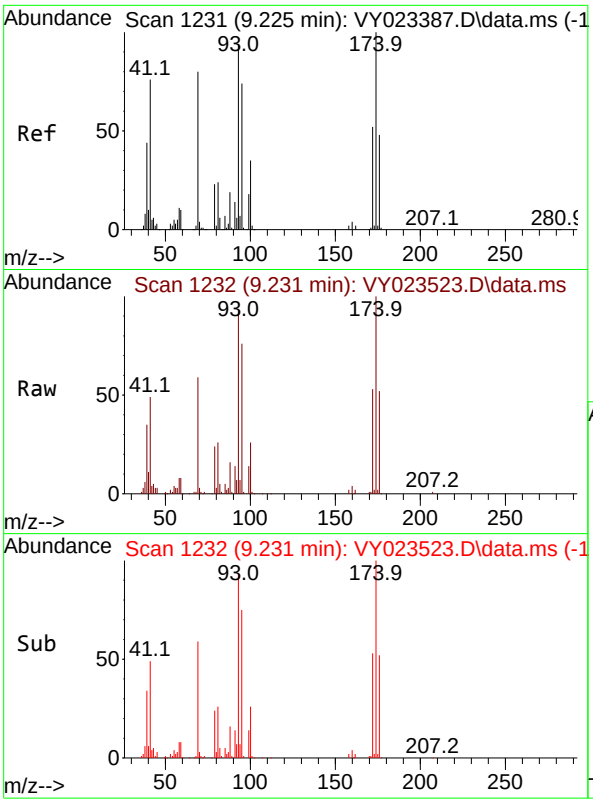


#48
Methyl methacrylate
Concen: 16.069 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 41 Resp: 34583

Ion	Ratio	Lower	Upper
41	100		
69	113.7	81.0	121.4
39	66.0	48.2	72.4

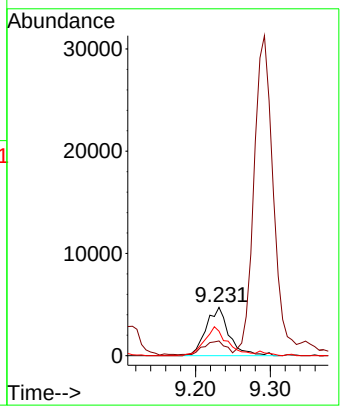




#49
1,4-Dioxane
Concen: 340.128 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 88 Resp: 1011

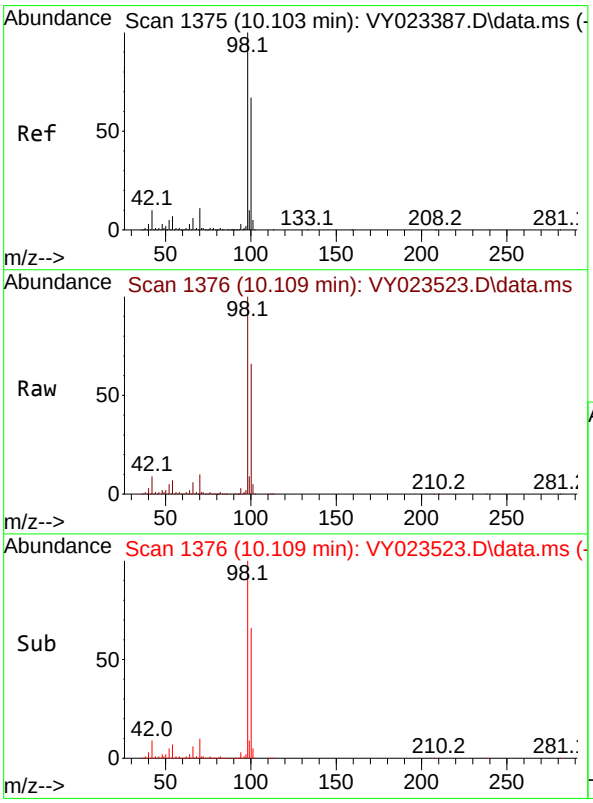
Ion	Ratio	Lower	Upper
88	100		
43	25.6	21.8	32.8
58	59.3	46.8	70.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

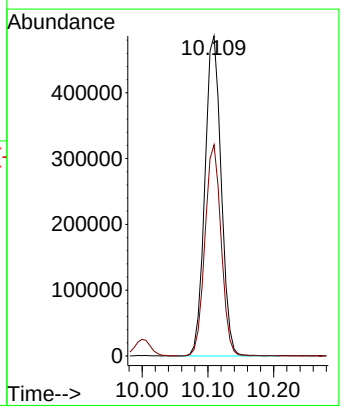
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

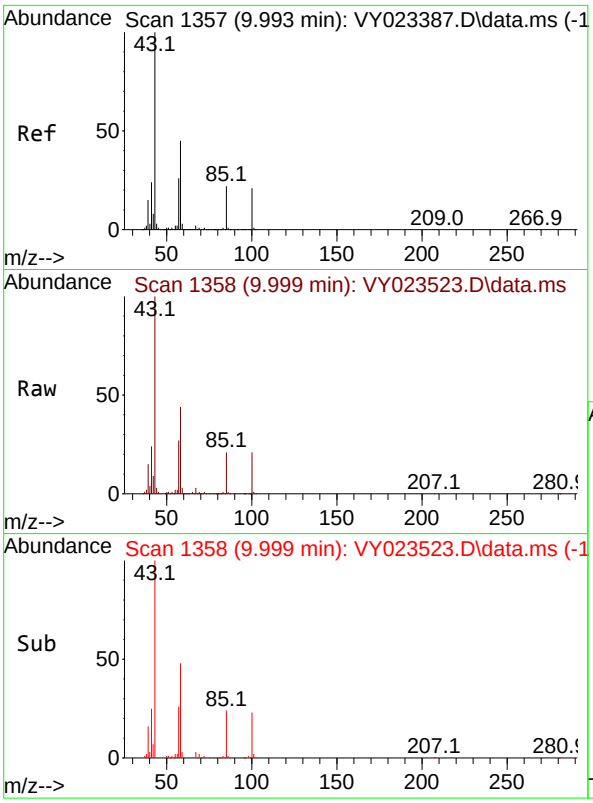


#50
Toluene-d8
Concen: 51.335 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 98 Resp: 837402

Ion	Ratio	Lower	Upper
98	100		
100	65.5	53.0	79.4

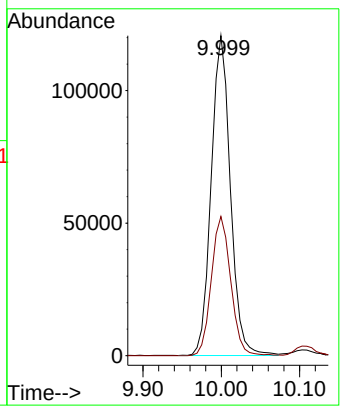




#51
4-Methyl-2-Pentanone
Concen: 86.702 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 43 Resp: 20521

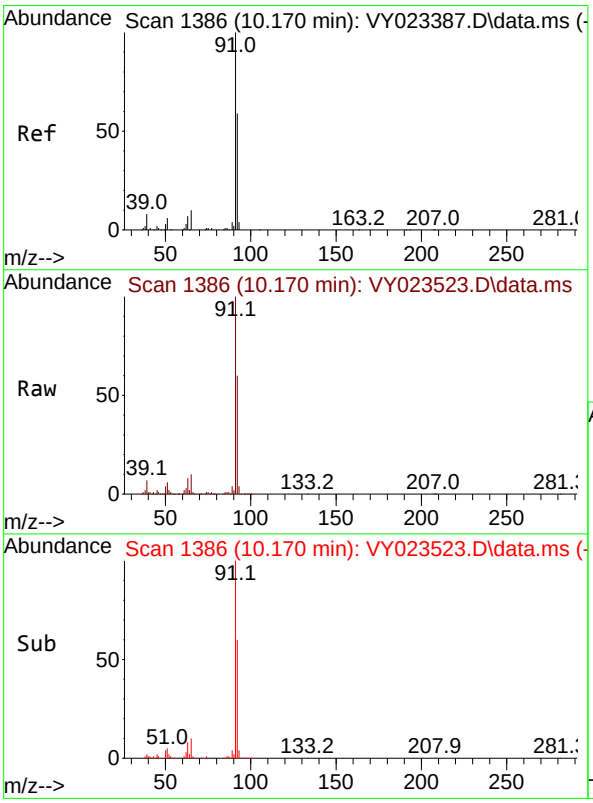
Ion	Ratio	Lower	Upper
43	100		
58	44.1	35.3	52.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

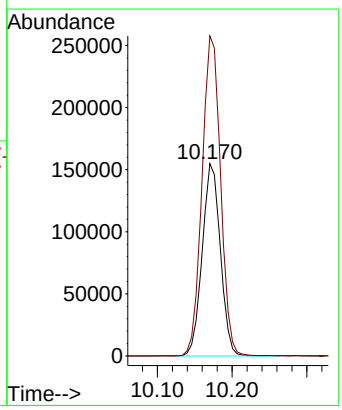
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

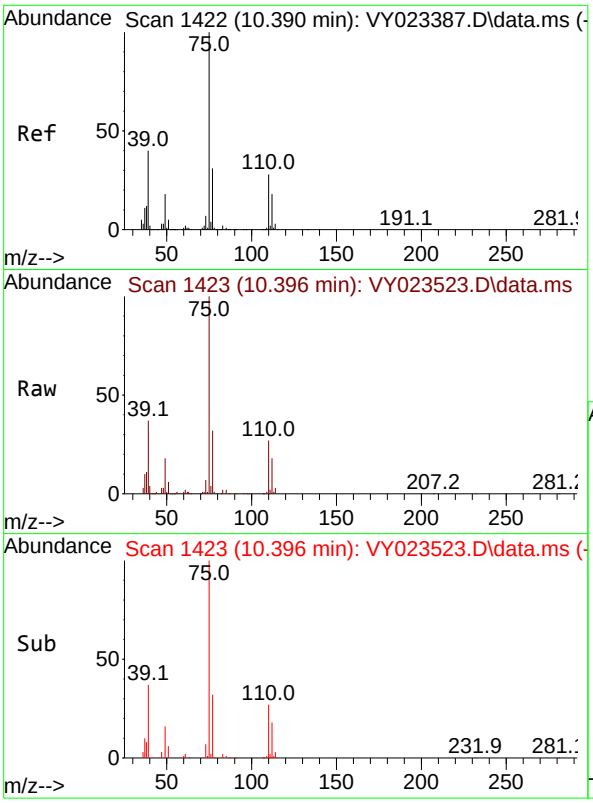


#52
Toluene
Concen: 21.861 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 92 Resp: 260667

Ion	Ratio	Lower	Upper
92	100		
91	170.4	136.4	204.6

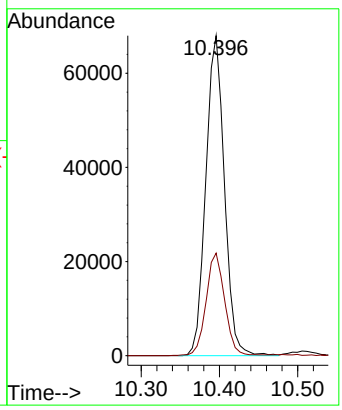




#53
t-1,3-Dichloropropene
Concen: 19.932 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 75 Resp: 11195

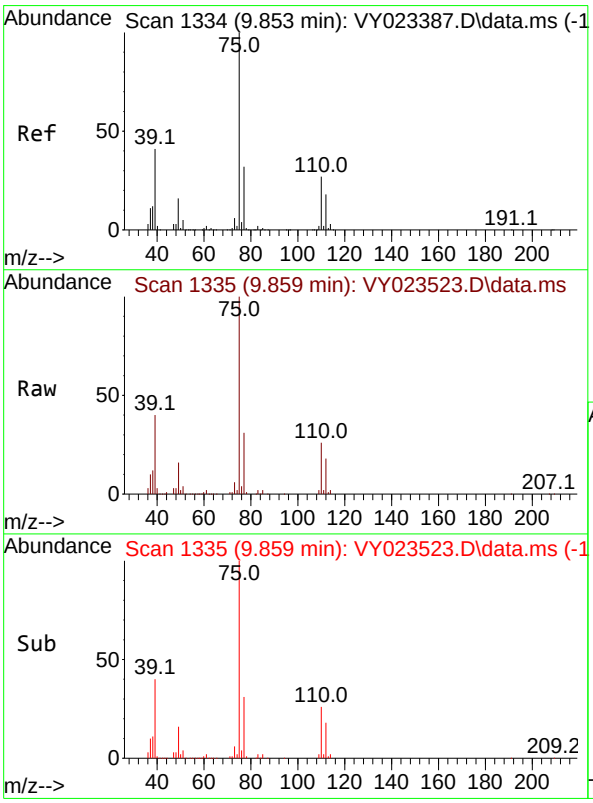
Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.1	37.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

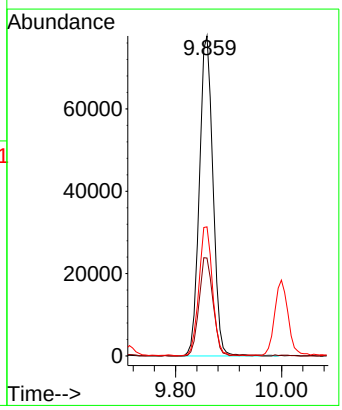
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

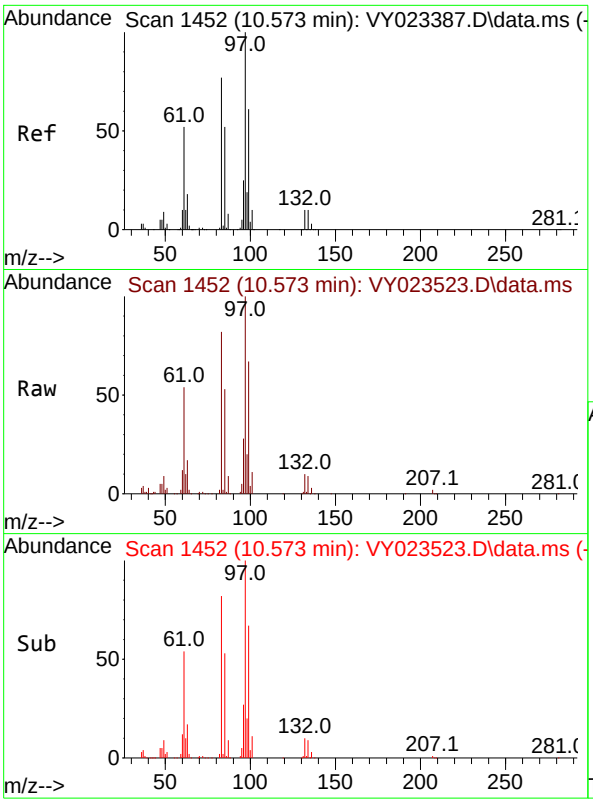


#54
cis-1,3-Dichloropropene
Concen: 20.802 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 75 Resp: 137908

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.4	38.0
39	40.3	32.8	49.2

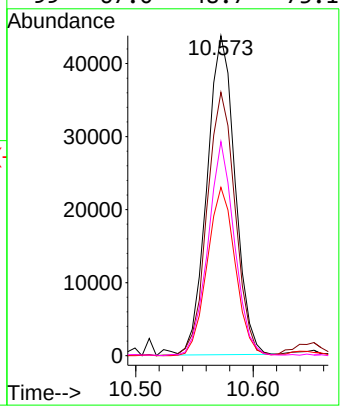




#55
1,1,2-Trichloroethane
Concen: 20.990 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 97 Resp: 7240(

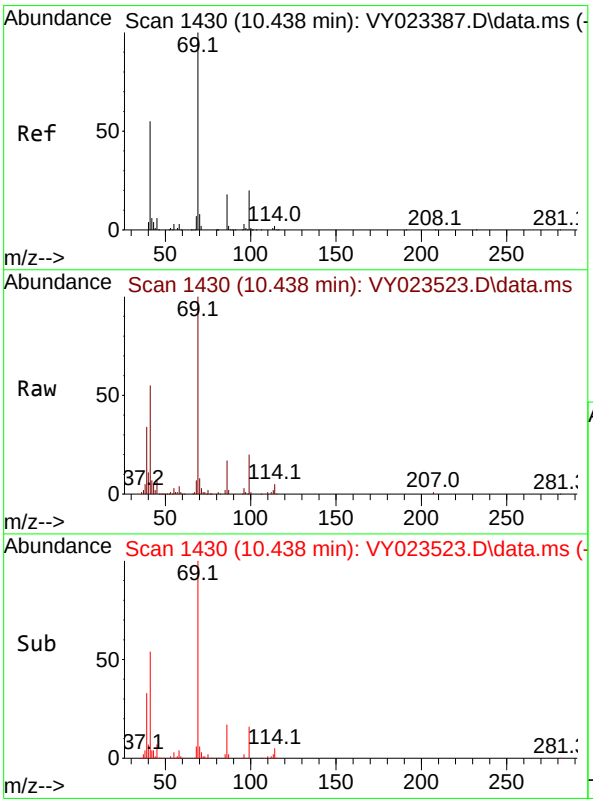
Ion	Ratio	Lower	Upper
97	100		
83	82.2	61.8	92.6
85	52.7	41.3	61.9
99	67.0	48.7	73.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

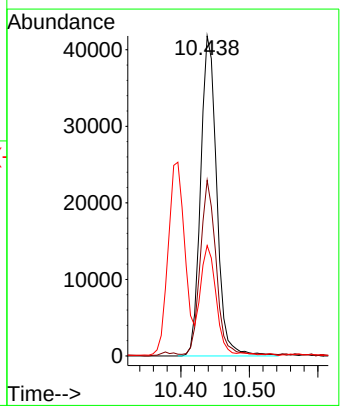
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

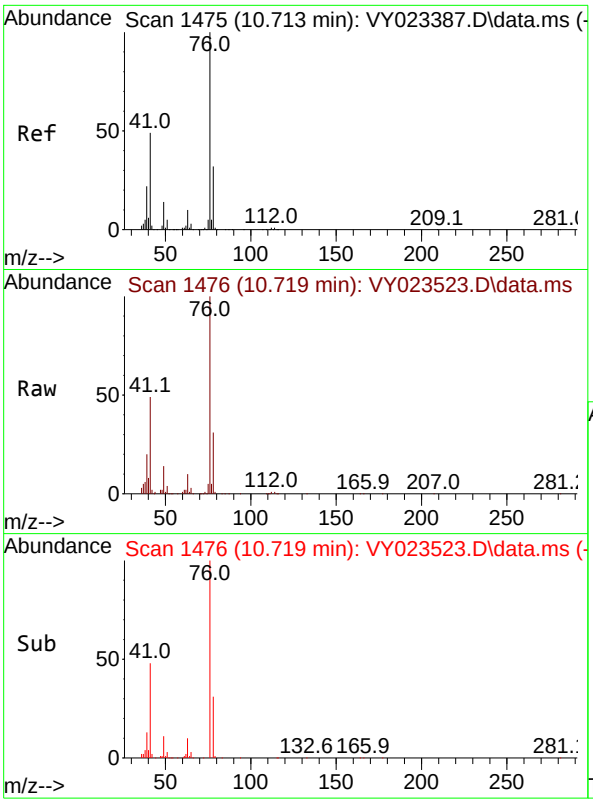


#56
Ethyl methacrylate
Concen: 17.220 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 69 Resp: 68512

Ion	Ratio	Lower	Upper
69	100		
41	52.6	44.6	67.0
39	31.6	27.0	40.4

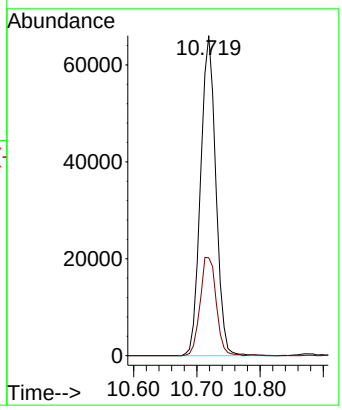




#57
1,3-Dichloropropane
Concen: 20.298 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 76 Resp: 11094

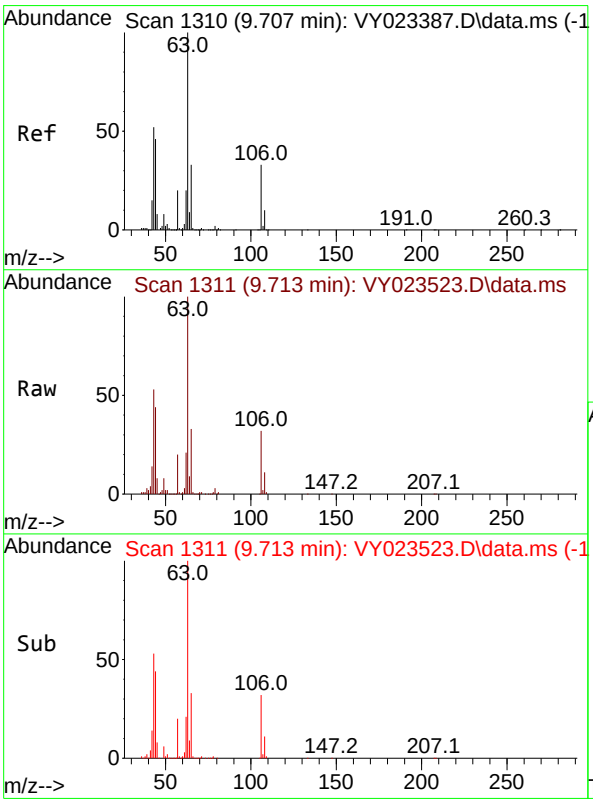
Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.9	38.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

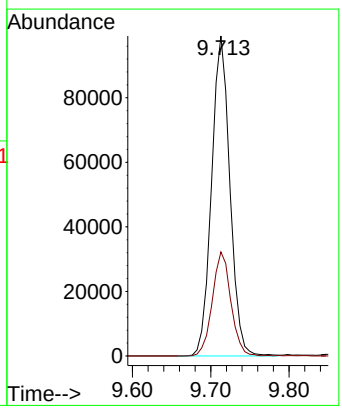
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

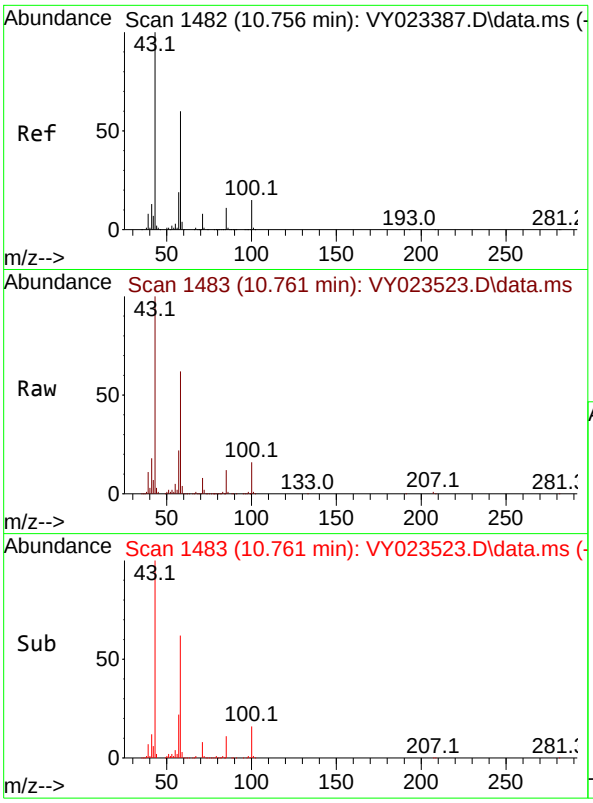


#58
2-Chloroethyl Vinyl ether
Concen: 90.396 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 63 Resp: 161119

Ion	Ratio	Lower	Upper
63	100		
106	33.0	26.6	39.8

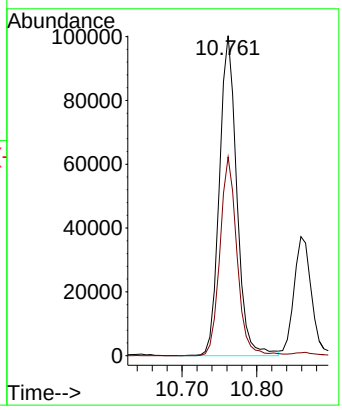




#59
2-Hexanone
Concen: 95.882 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 43 Resp: 16218

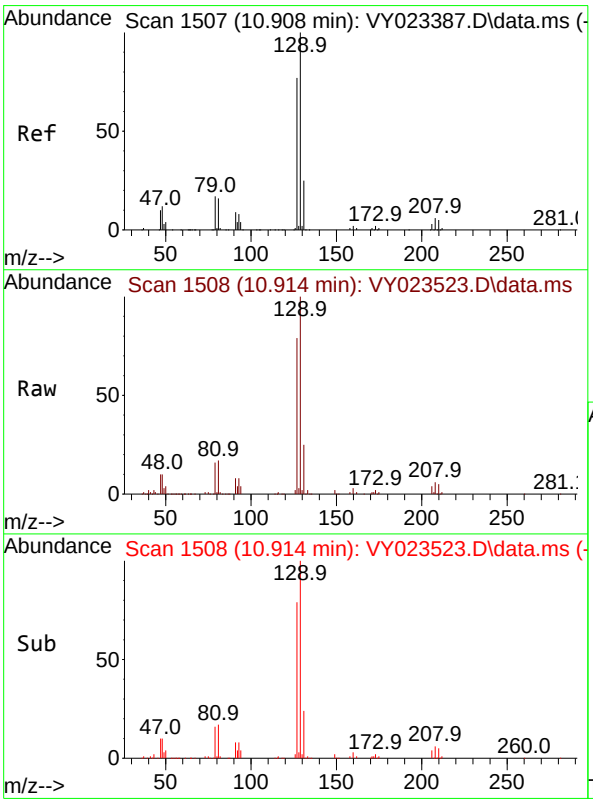
Ion	Ratio	Lower	Upper
43	100		
58	60.9	30.5	91.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

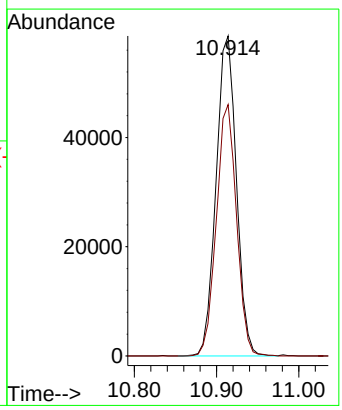
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

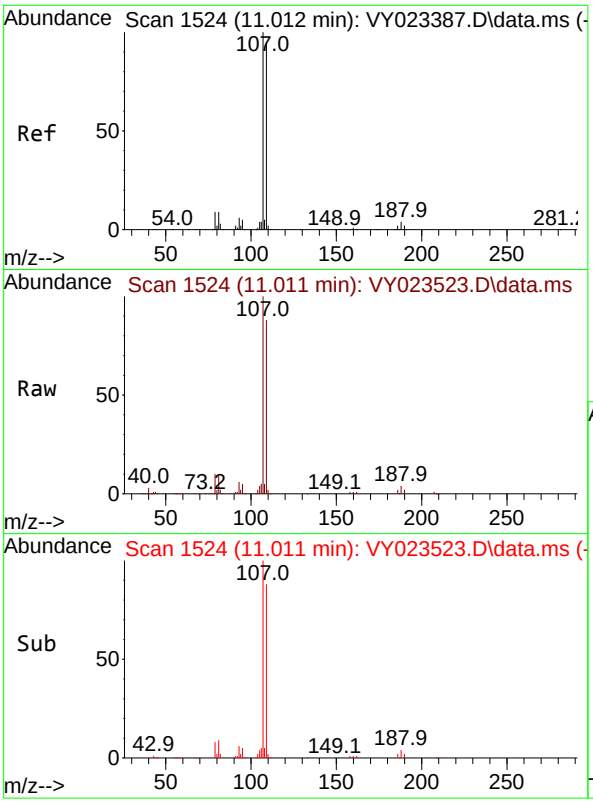


#60
Dibromochloromethane
Concen: 20.815 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:129 Resp: 100658

Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	115.7

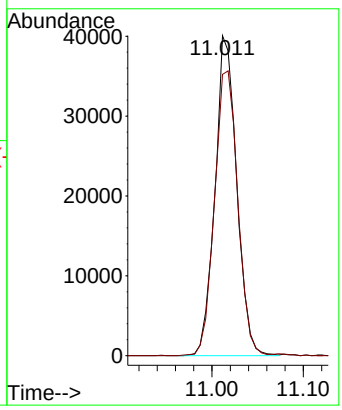




#61
1,2-Dibromoethane
Concen: 20.106 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:107 Resp: 6614

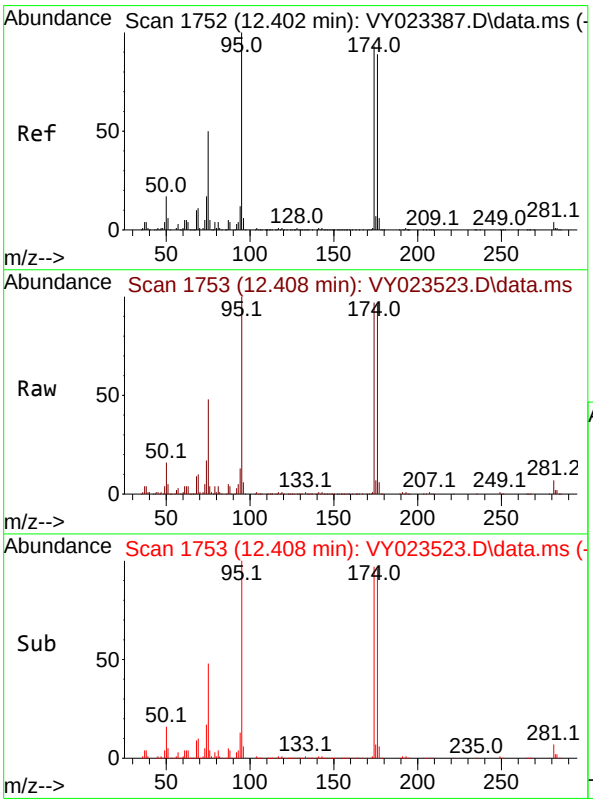
Ion	Ratio	Lower	Upper
107	100		
109	95.4	76.1	114.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

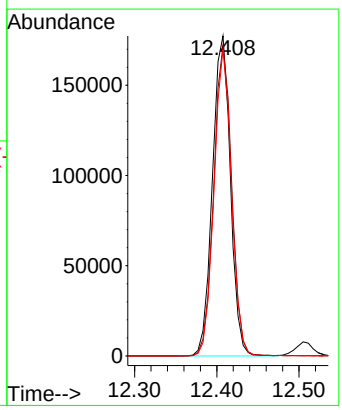
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

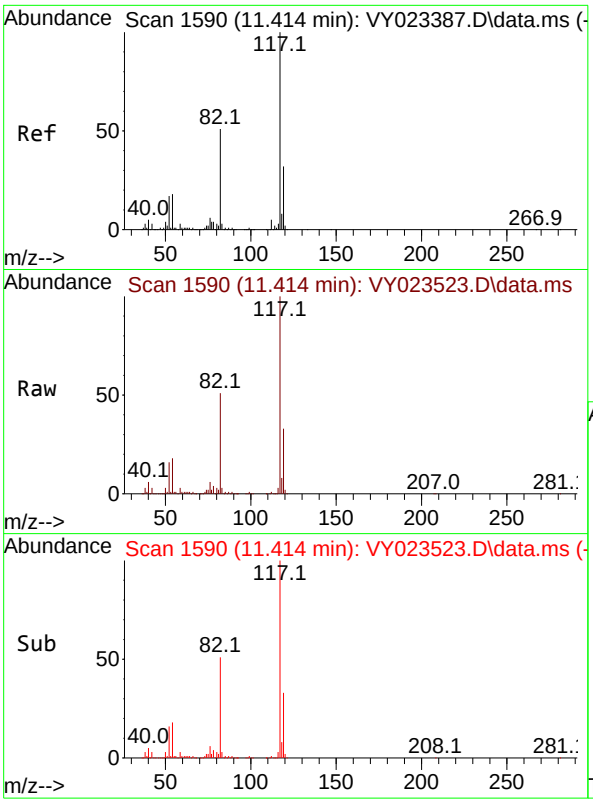


#62
4-Bromofluorobenzene
Concen: 49.942 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 95 Resp: 268965

Ion	Ratio	Lower	Upper
95	100		
174	97.1	0.0	192.8
176	93.2	0.0	187.6

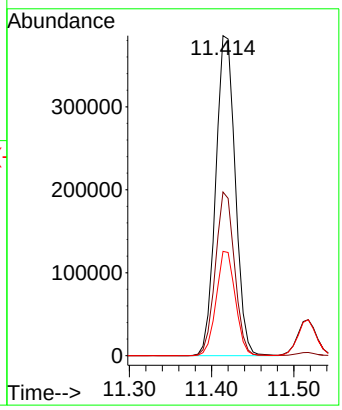




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

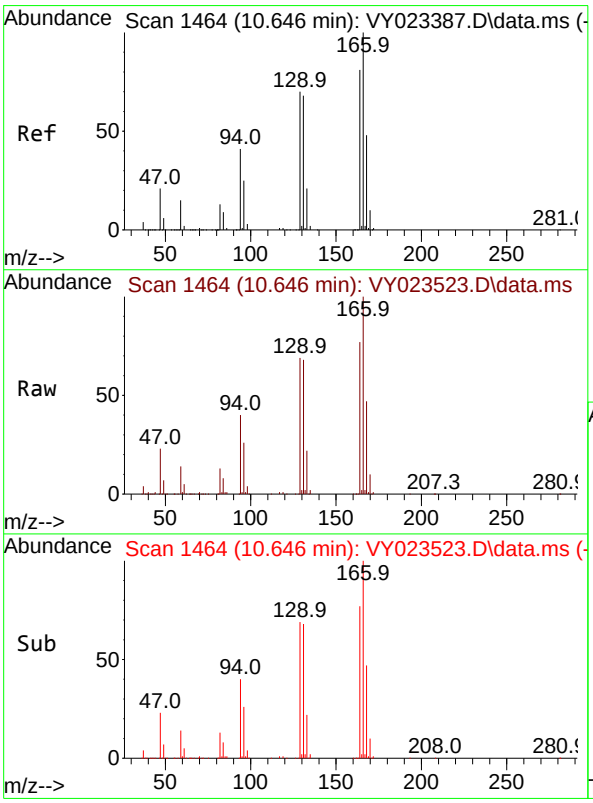
Tgt Ion:117 Resp: 63578

Ion	Ratio	Lower	Upper
117	100		
82	51.1	41.0	61.4
119	32.6	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

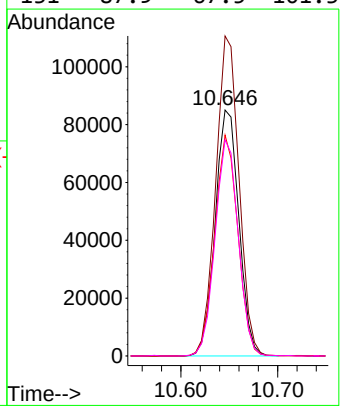
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

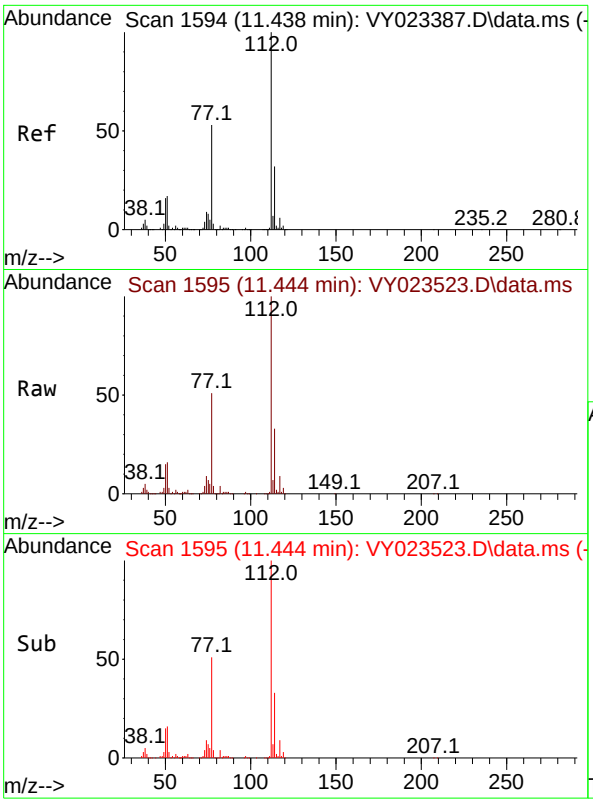


#64
Tetrachloroethene
Concen: 22.026 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:164 Resp: 144595

Ion	Ratio	Lower	Upper
164	100		
166	130.1	99.4	149.0
129	89.8	69.4	104.2
131	87.9	67.5	101.3

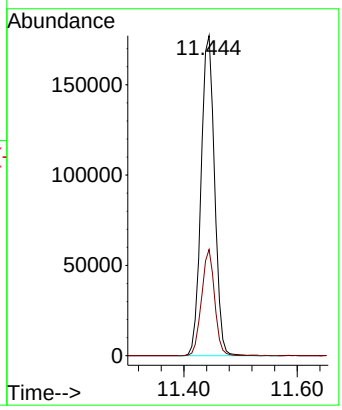




#65
Chlorobenzene
Concen: 21.180 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

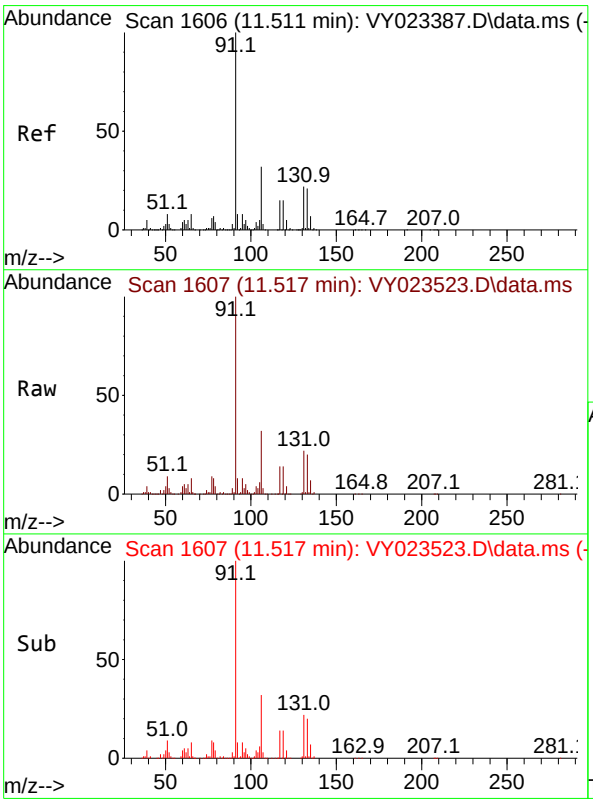
Tgt Ion:112 Resp: 29287

Ion	Ratio	Lower	Upper
112	100		
114	33.2	25.6	38.4



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

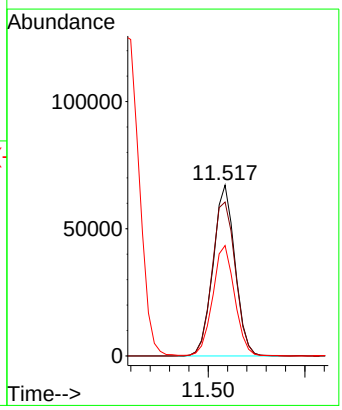
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

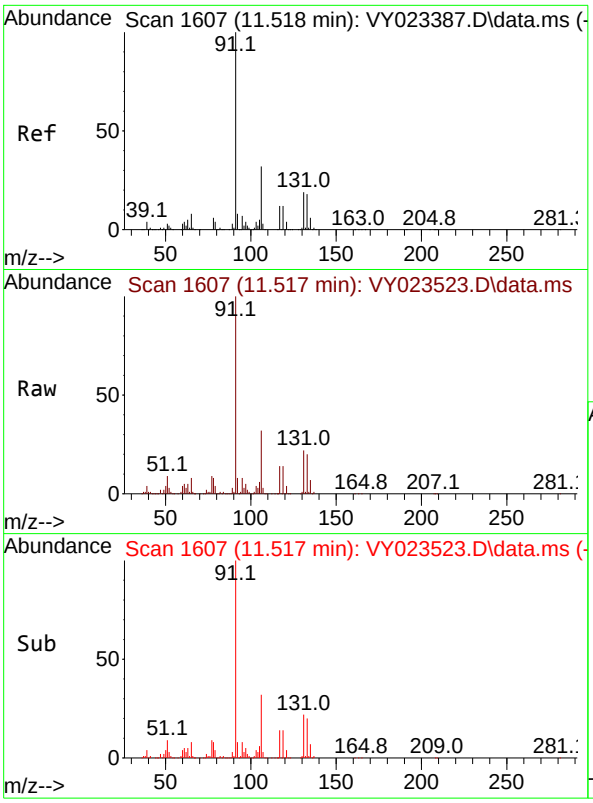


#66
1,1,1,2-Tetrachloroethane
Concen: 21.413 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:131 Resp: 105517

Ion	Ratio	Lower	Upper
131	100		
133	96.1	48.4	145.2
119	65.2	32.4	97.2

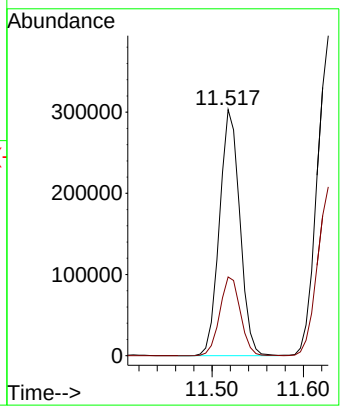




#67
Ethyl Benzene
Concen: 20.972 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 91 Resp: 46941

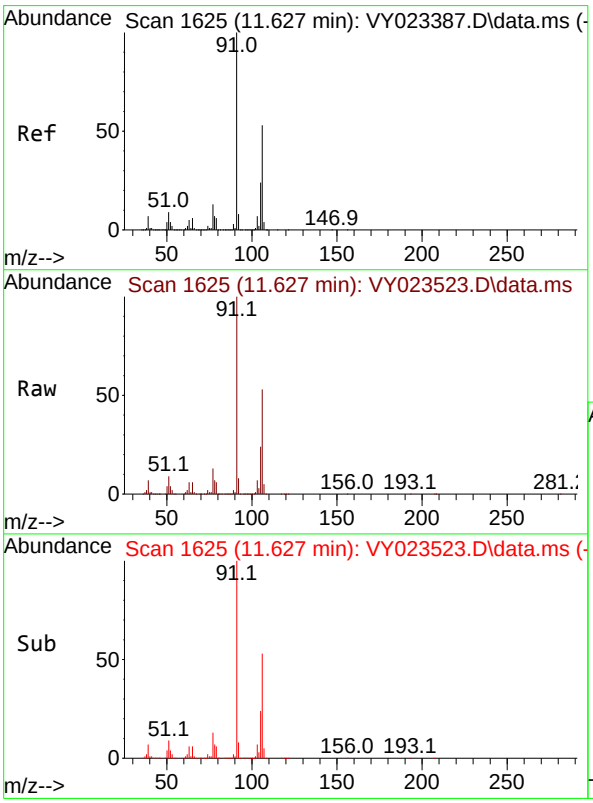
Ion	Ratio	Lower	Upper
91	100		
106	32.0	25.8	38.8



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

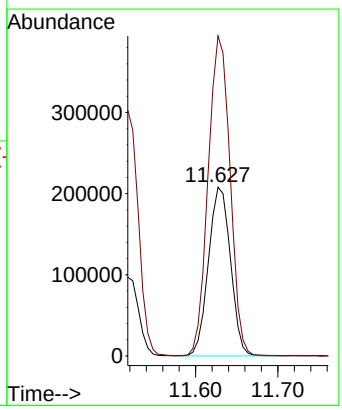
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

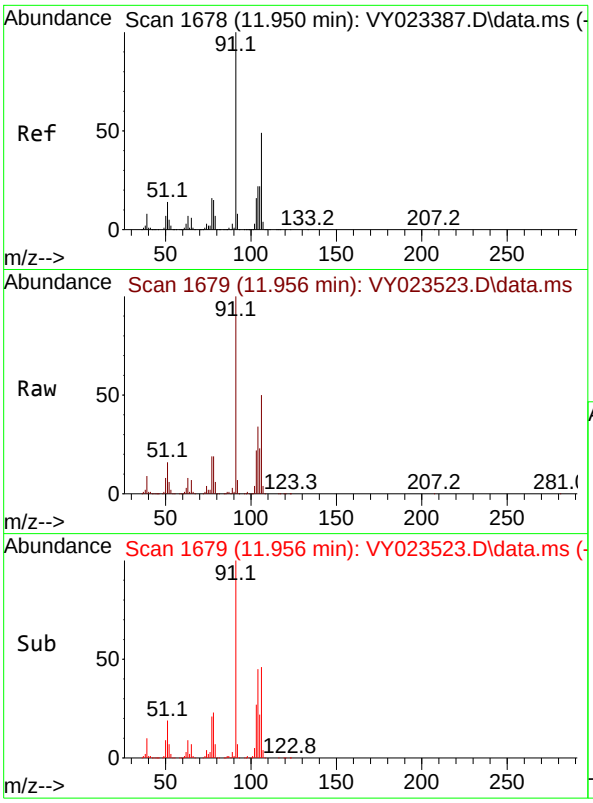


#68
m/p-Xylenes
Concen: 43.069 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:106 Resp: 386672

Ion	Ratio	Lower	Upper
106	100		
91	188.5	152.6	229.0

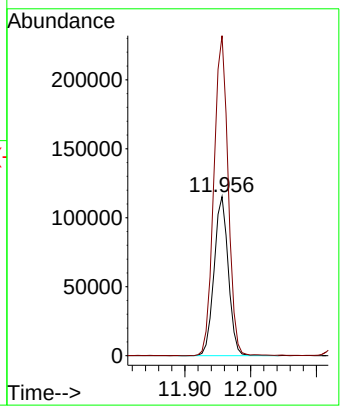




#69
o-Xylene
Concen: 20.563 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

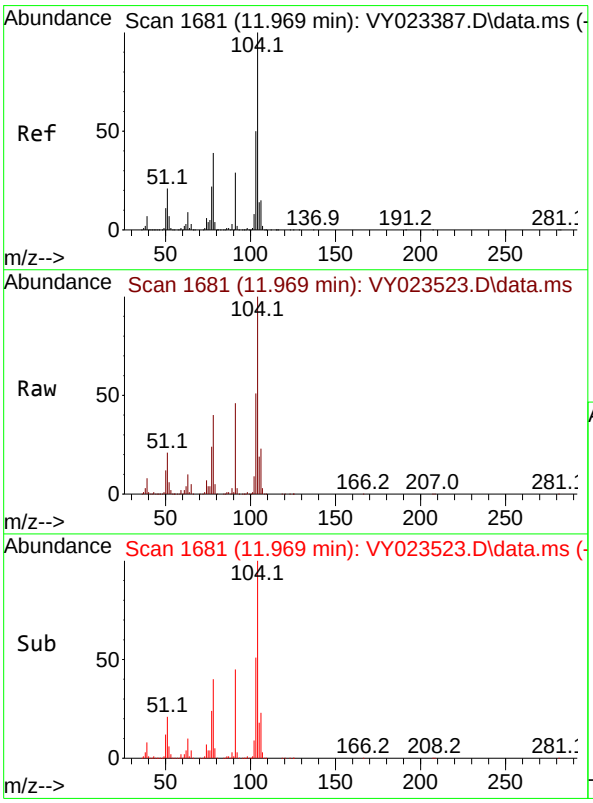
Tgt Ion:106 Resp: 17315

Ion	Ratio	Lower	Upper
106	100		
91	202.7	101.4	304.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

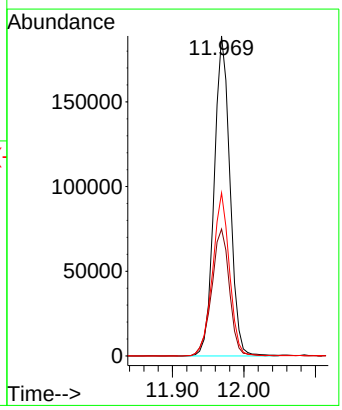
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

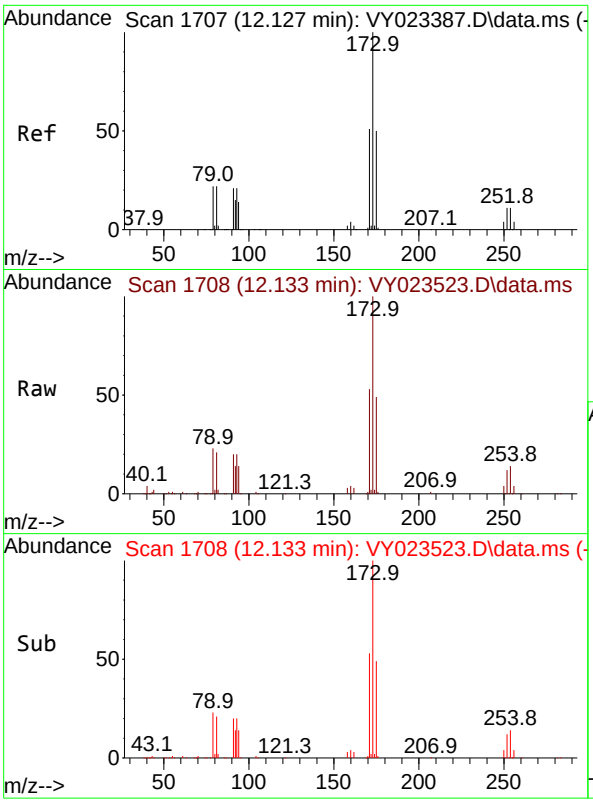


#70
Styrene
Concen: 20.968 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:104 Resp: 290368

Ion	Ratio	Lower	Upper
104	100		
78	44.4	36.1	54.1
103	54.0	43.2	64.8

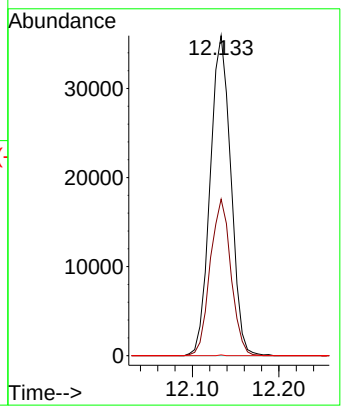




#71
Bromoform
Concen: 19.497 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

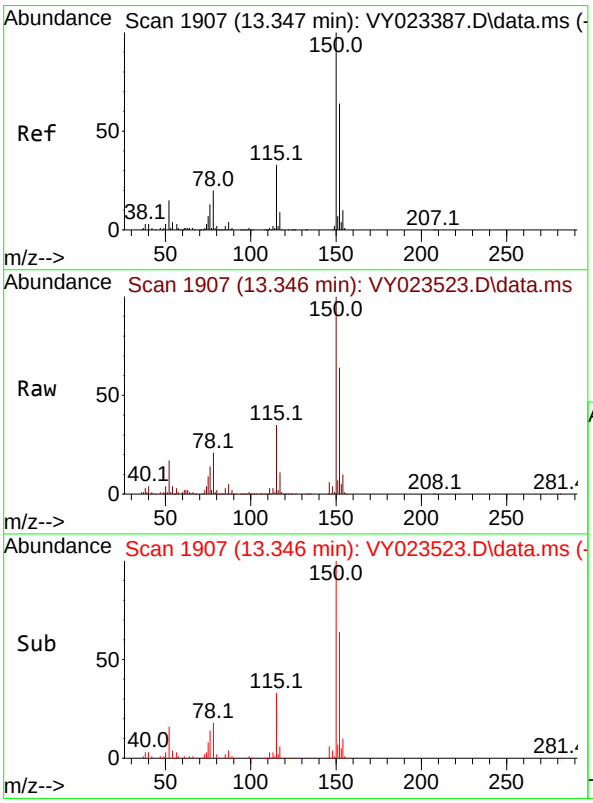
Tgt Ion:173 Resp: 5959

Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.8	74.3
254	0.1	0.1	0.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

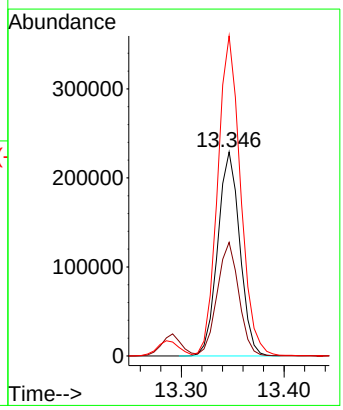
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

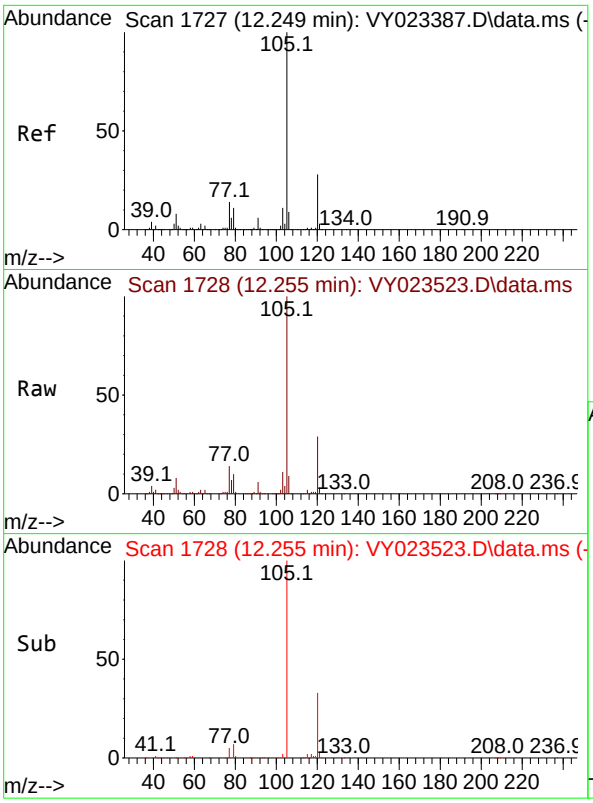


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:152 Resp: 341398

Ion	Ratio	Lower	Upper
152	100		
115	54.4	27.1	81.2
150	162.6	0.0	347.4

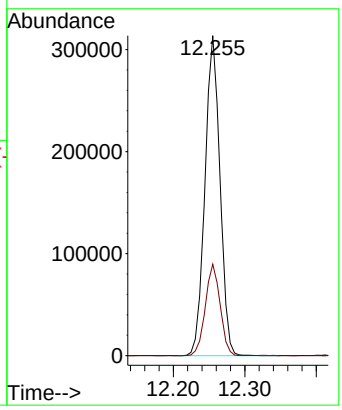




#73
Isopropylbenzene
Concen: 20.332 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:105 Resp: 45743

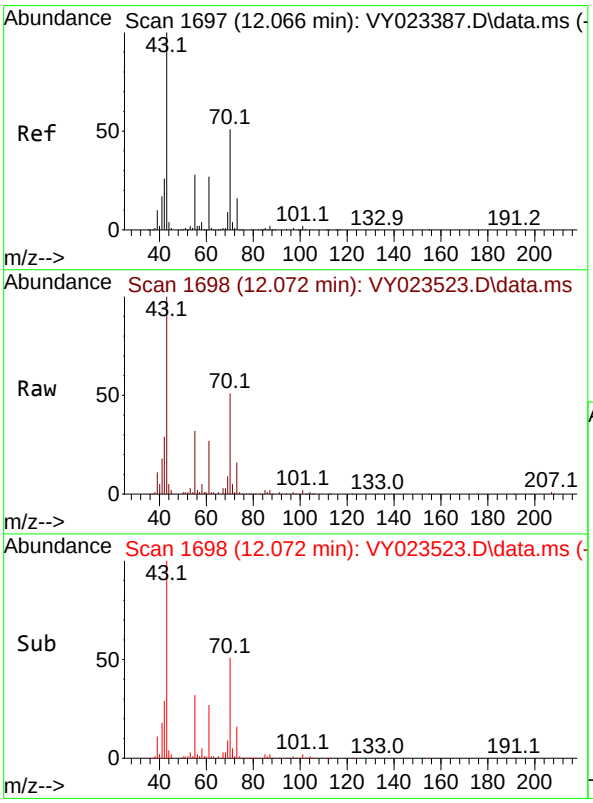
Ion	Ratio	Lower	Upper
105	100		
120	28.2	13.9	41.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

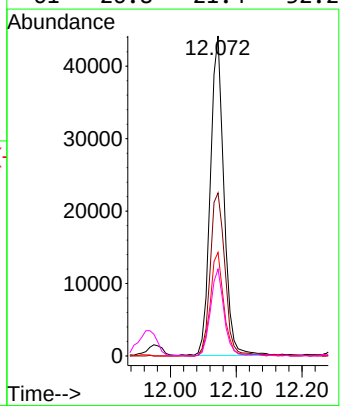
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

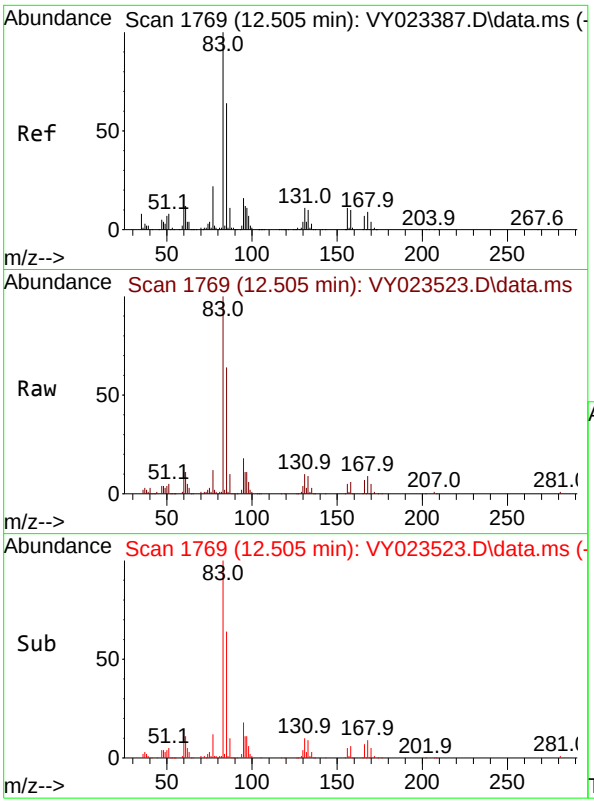


#74
N-amyl acetate
Concen: 15.757 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 43 Resp: 63675

Ion	Ratio	Lower	Upper
43	100		
70	55.1	41.1	61.7
55	32.1	23.0	34.6
61	26.8	21.4	32.2

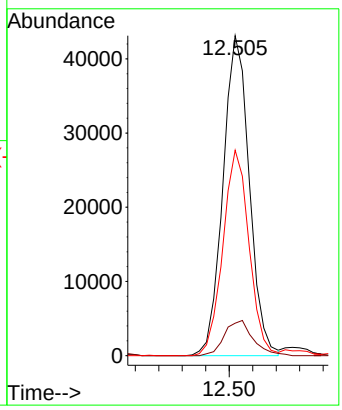




#75
1,1,2,2-Tetrachloroethane
Concen: 18.231 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 83 Resp: 6708

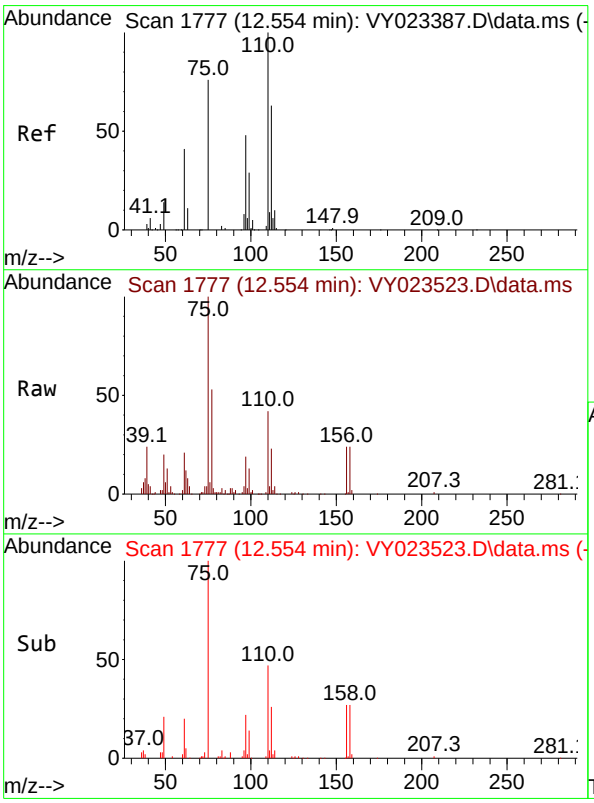
Ion	Ratio	Lower	Upper
83	100		
131	12.0	5.9	17.6
85	63.8	31.8	95.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

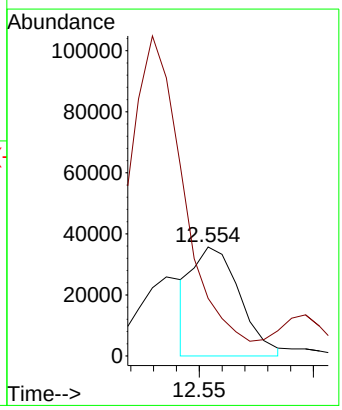
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

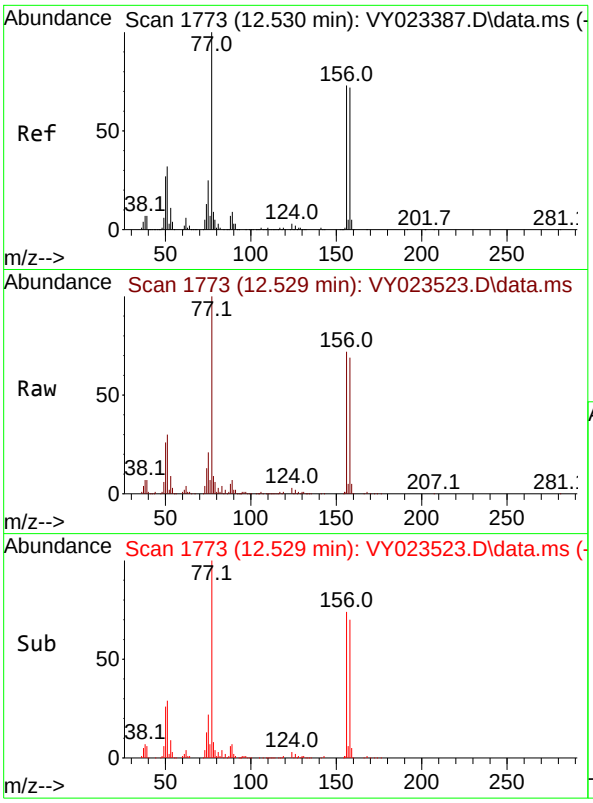


#76
1,2,3-Trichloropropane
Concen: 17.049 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 75 Resp: 51352

Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

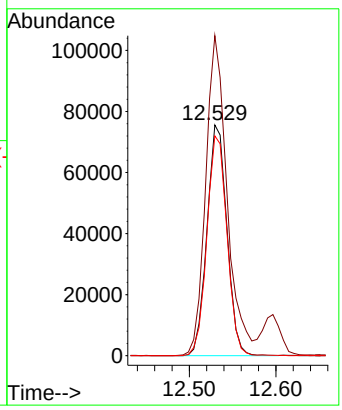




#77
Bromobenzene
Concen: 20.220 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:156 Resp: 12094

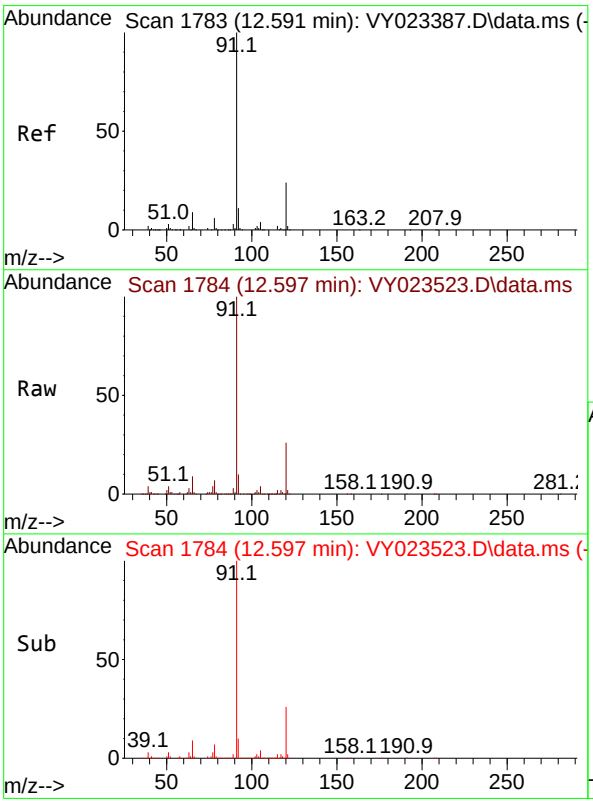
Ion	Ratio	Lower	Upper
156	100		
77	148.4	76.8	230.5
158	96.0	49.0	147.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

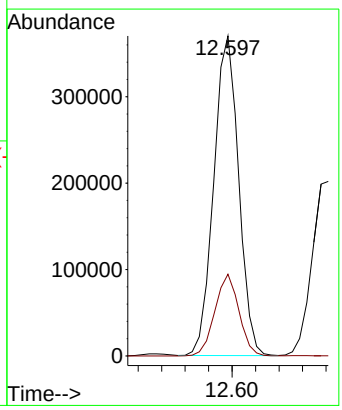
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

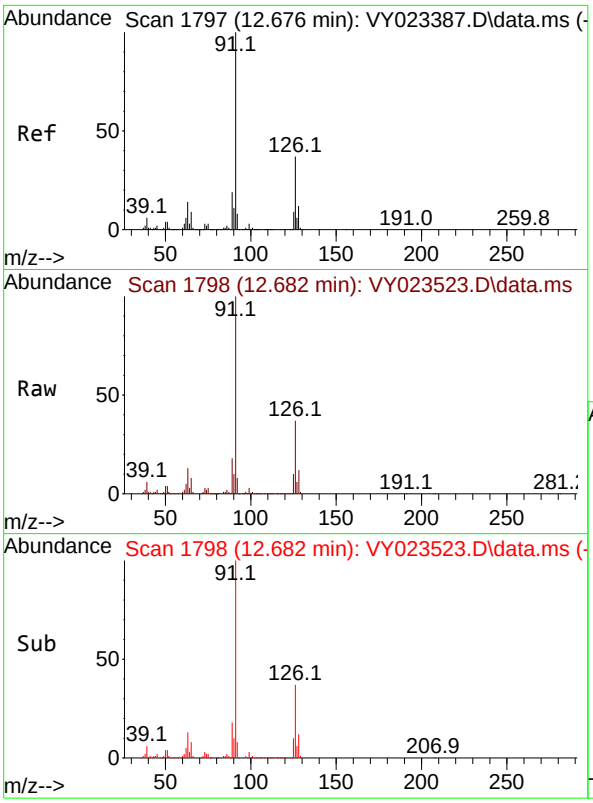


#78
n-propylbenzene
Concen: 20.896 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 91 Resp: 544028

Ion	Ratio	Lower	Upper
91	100		
120	24.7	12.3	36.8

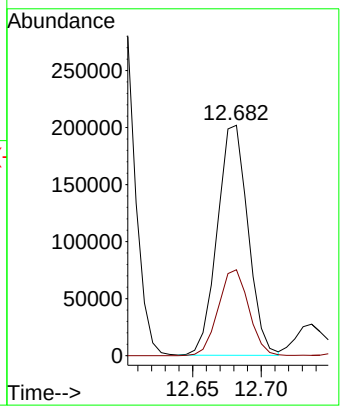




#79
2-Chlorotoluene
Concen: 20.636 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 91 Resp: 31461

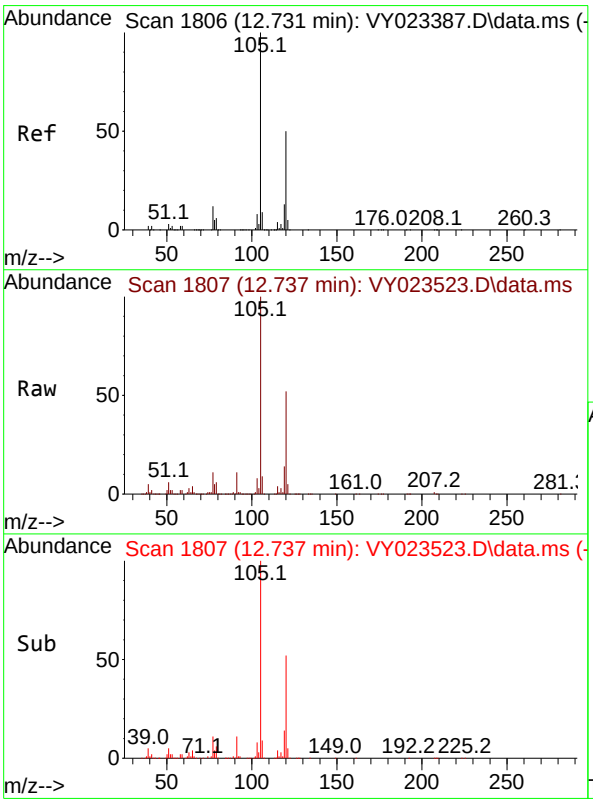
Ion	Ratio	Lower	Upper
91	100		
126	37.2	18.5	55.5



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

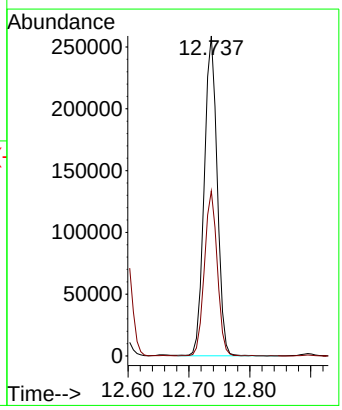
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

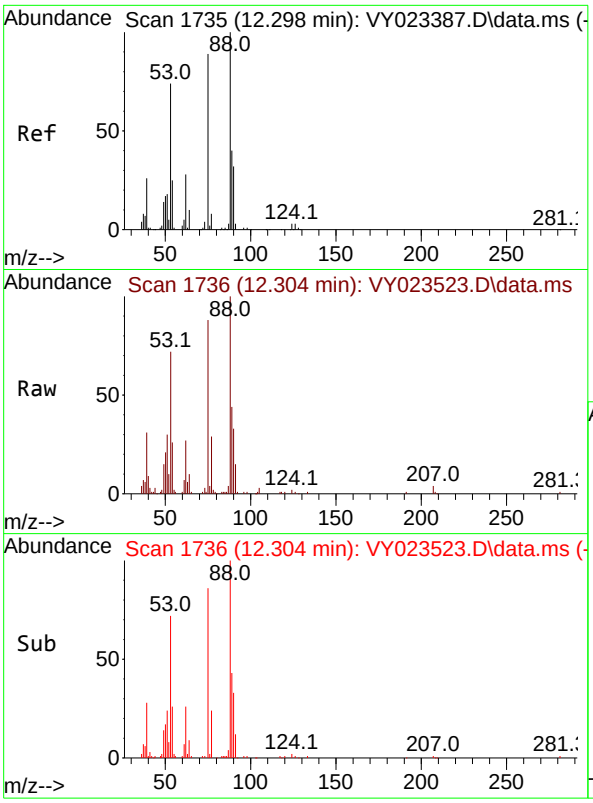


#80
1,3,5-Trimethylbenzene
Concen: 21.030 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:105 Resp: 382336

Ion	Ratio	Lower	Upper
105	100		
120	50.9	25.4	76.4

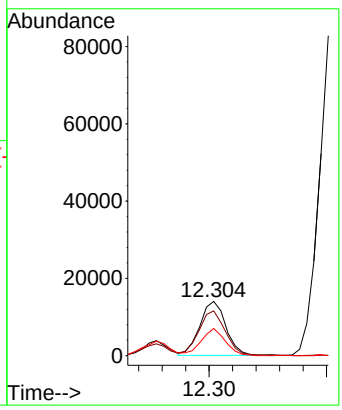




#81
trans-1,4-Dichloro-2-butene
Concen: 17.532 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 75 Resp: 2153

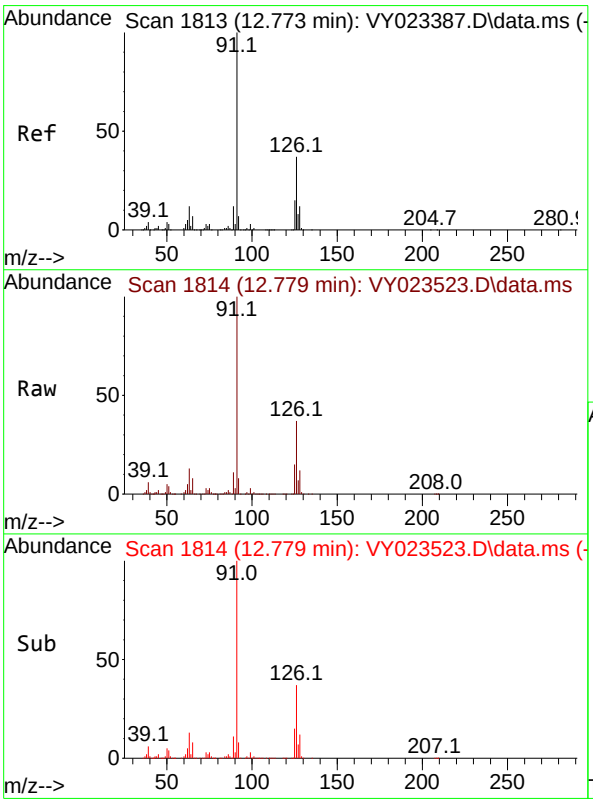
Ion	Ratio	Lower	Upper
75	100		
53	85.7	68.6	102.8
89	47.2	39.0	58.4



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

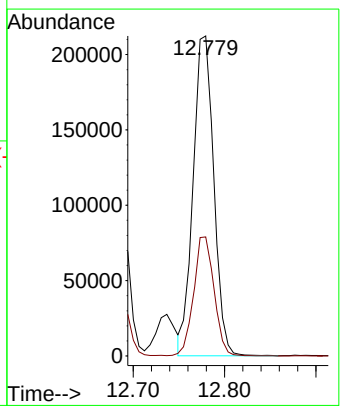
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

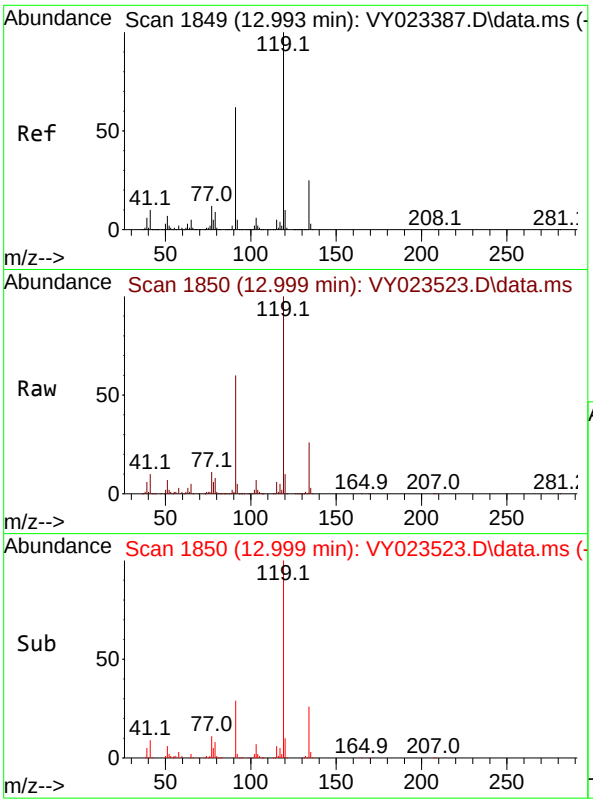


#82
4-Chlorotoluene
Concen: 21.231 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 91 Resp: 333366

Ion	Ratio	Lower	Upper
91	100		
126	36.9	18.4	55.4

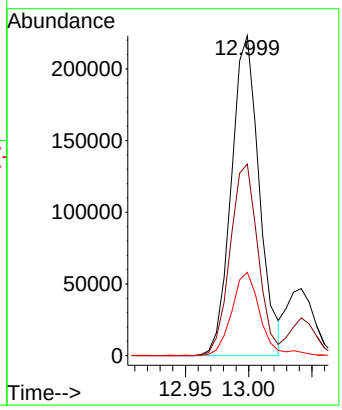




#83
tert-Butylbenzene
Concen: 20.426 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:119 Resp: 34287

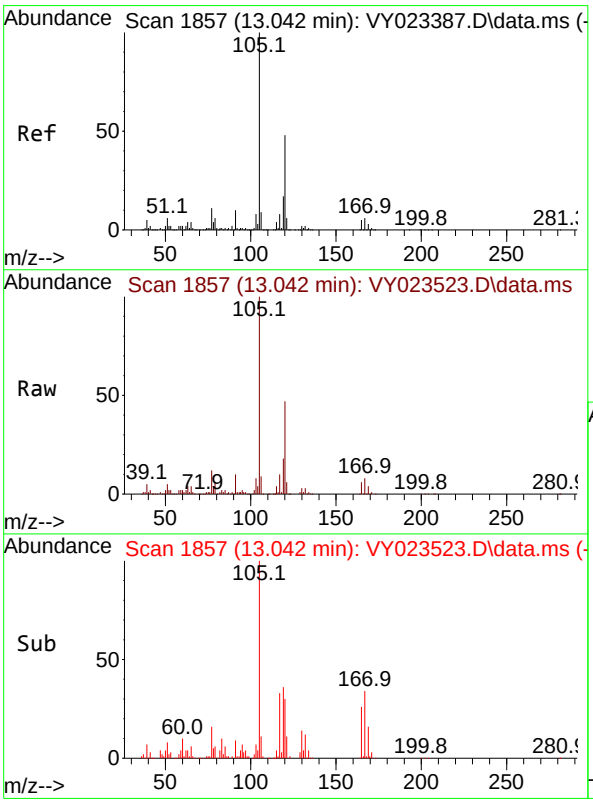
Ion	Ratio	Lower	Upper
119	100		
91	59.7	29.9	89.8
134	26.7	12.9	38.7



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

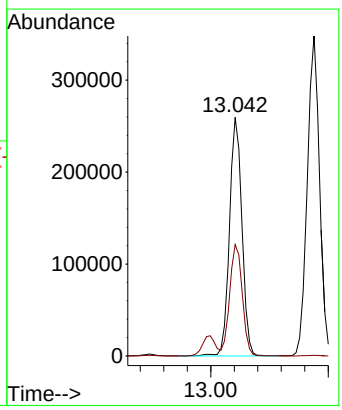
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

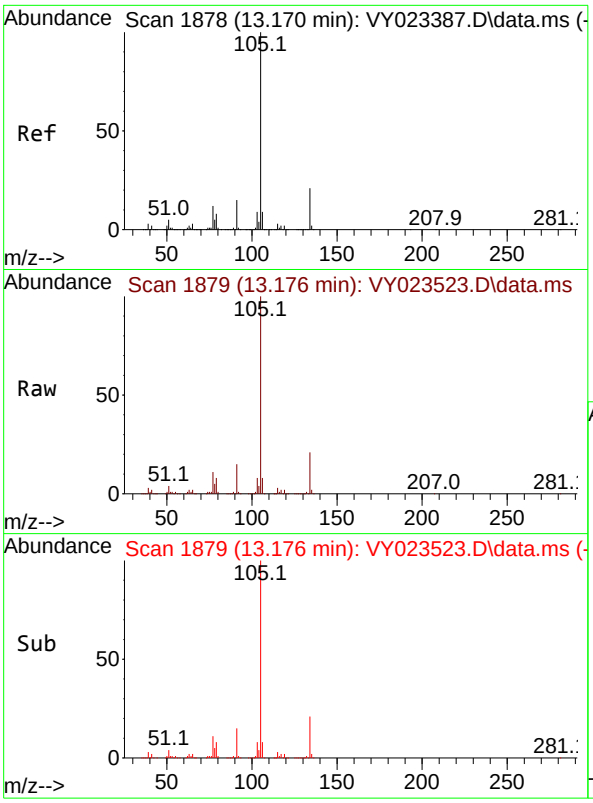


#84
1,2,4-Trimethylbenzene
Concen: 21.093 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:105 Resp: 382715

Ion	Ratio	Lower	Upper
105	100		
120	46.9	23.8	71.2

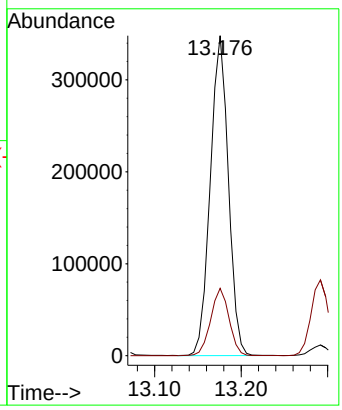




#85
sec-Butylbenzene
Concen: 20.959 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:105 Resp: 50469

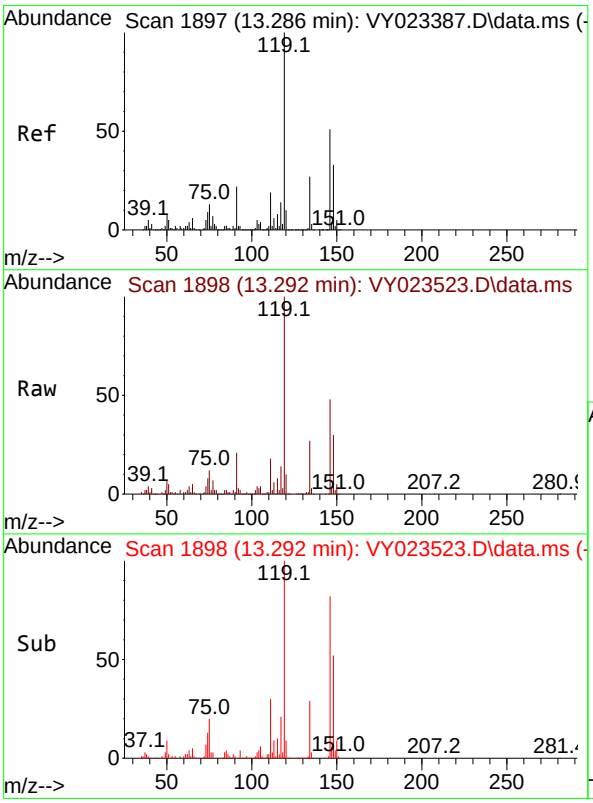
Ion	Ratio	Lower	Upper
105	100		
134	21.4	10.7	32.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

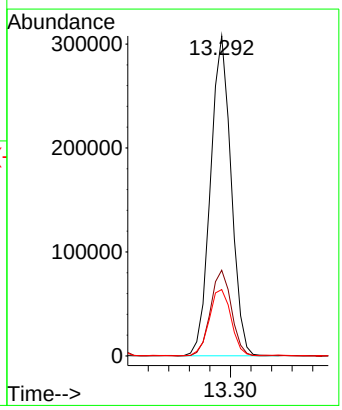
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

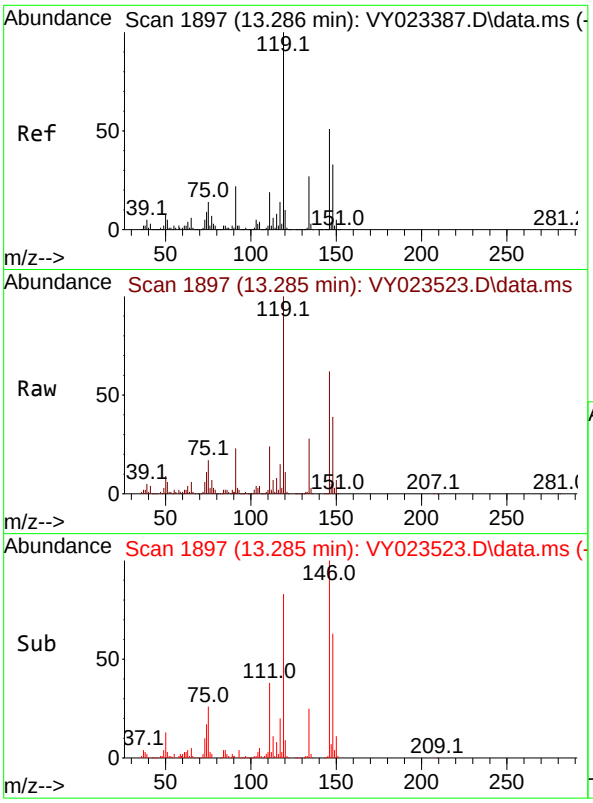


#86
p-Isopropyltoluene
Concen: 20.856 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:119 Resp: 427597

Ion	Ratio	Lower	Upper
119	100		
134	27.2	13.6	40.7
91	21.9	10.9	32.9

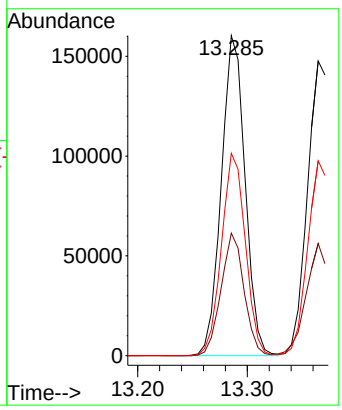




#87
1,3-Dichlorobenzene
Concen: 20.738 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

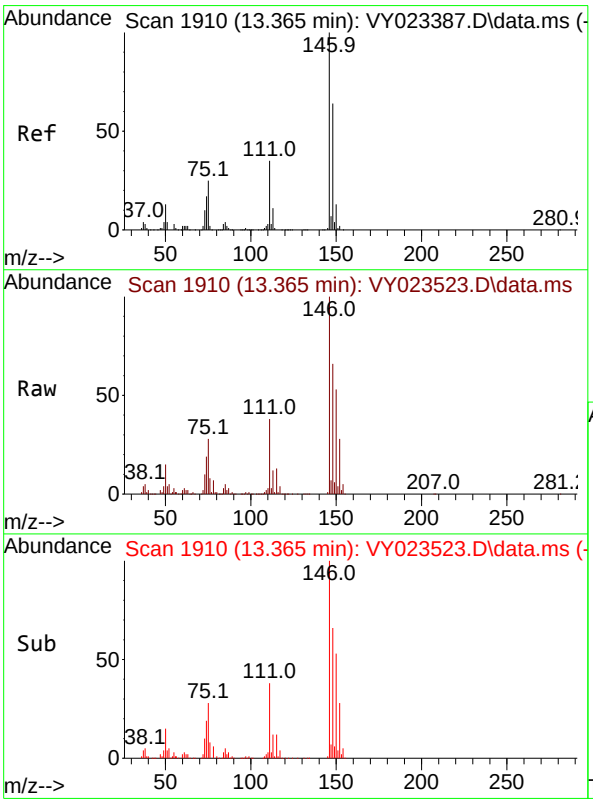
Tgt Ion:146 Resp: 24154

Ion	Ratio	Lower	Upper
146	100		
111	37.1	18.7	56.1
148	63.7	31.9	95.9



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

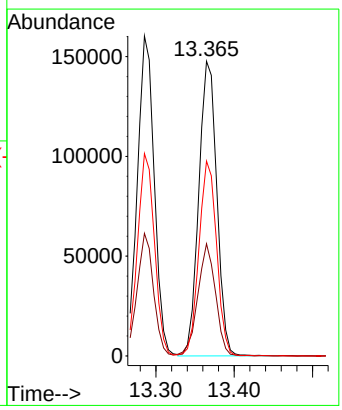
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

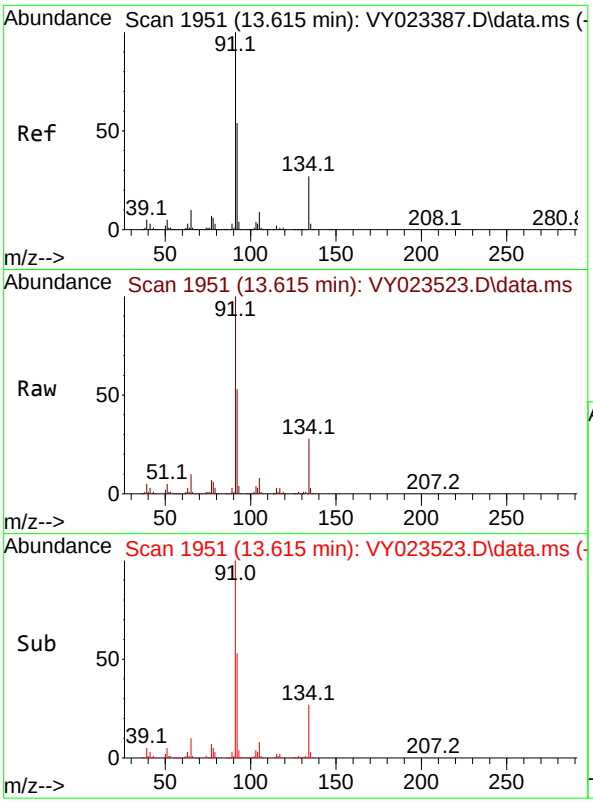


#88
1,4-Dichlorobenzene
Concen: 20.523 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:146 Resp: 236089

Ion	Ratio	Lower	Upper
146	100		
111	37.4	18.0	54.0
148	65.0	31.9	95.7

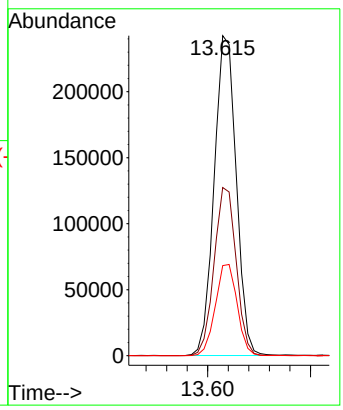




#89
n-Butylbenzene
Concen: 20.198 ug/l
RT: 13.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 91 Resp: 360818

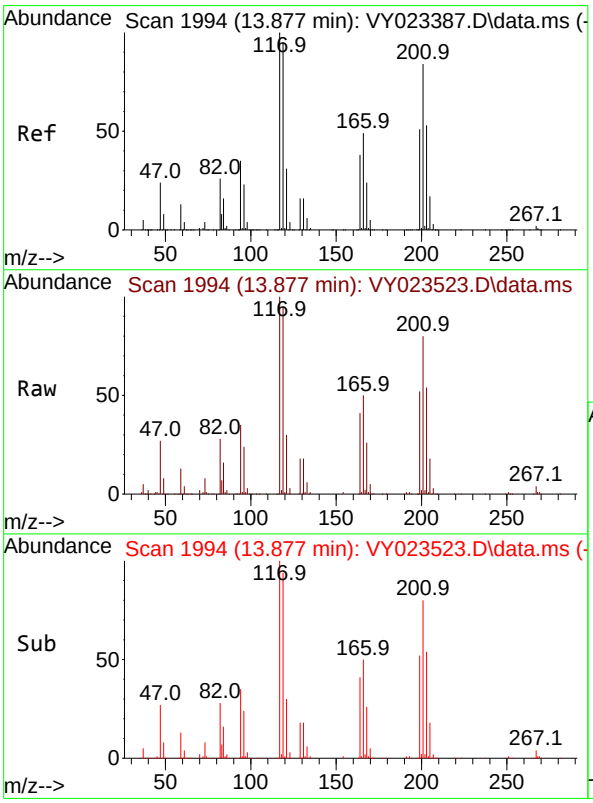
Ion	Ratio	Lower	Upper
91	100		
92	52.7	27.0	80.8
134	28.3	14.1	42.2



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

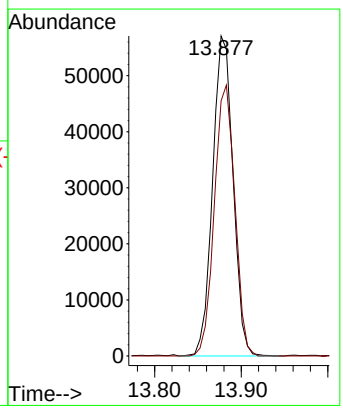
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

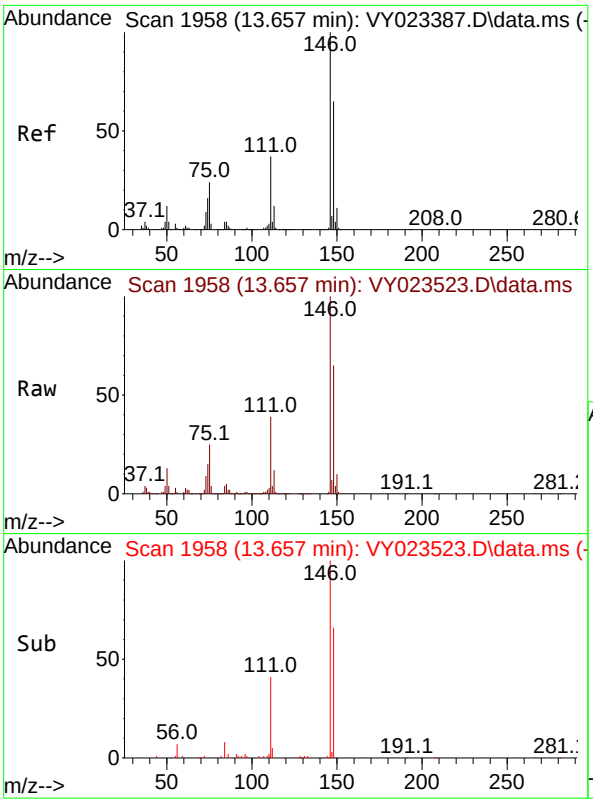


#90
Hexachloroethane
Concen: 21.177 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:117 Resp: 93382

Ion	Ratio	Lower	Upper
117	100		
201	84.8	43.8	131.4

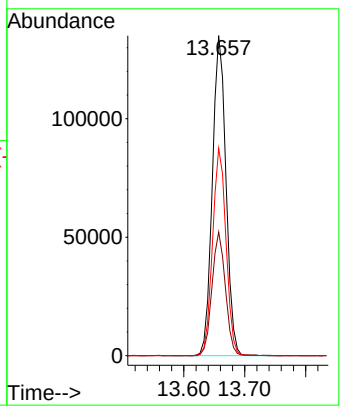




#91
1,2-Dichlorobenzene
Concen: 20.472 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:146 Resp: 20904

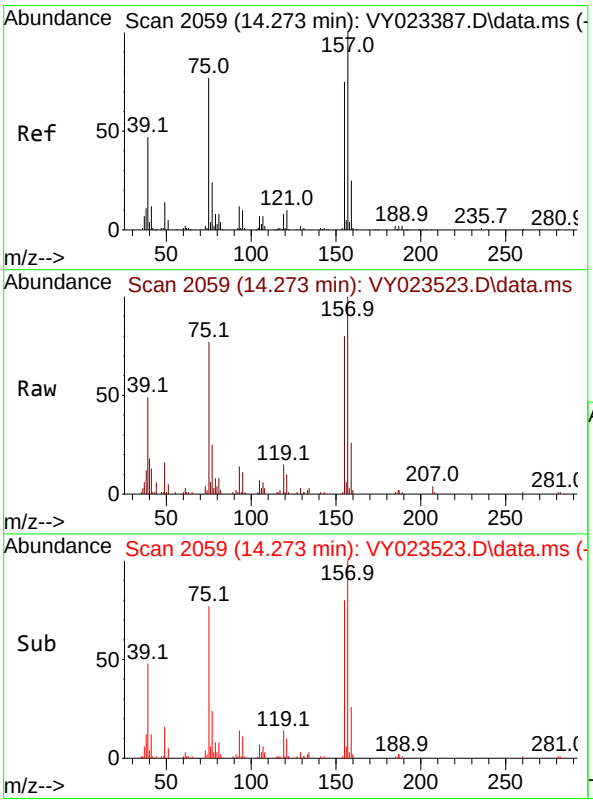
Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.0	57.0
148	64.3	32.1	96.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

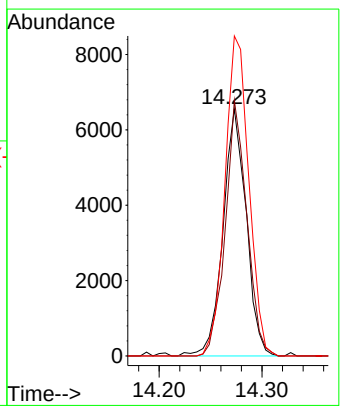
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

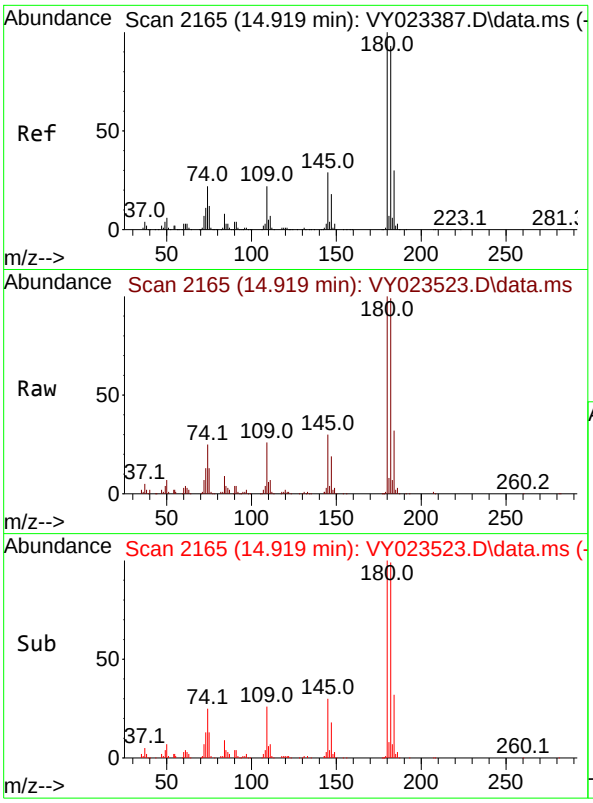


#92
1,2-Dibromo-3-Chloropropane
Concen: 17.023 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion: 75 Resp: 10278

Ion	Ratio	Lower	Upper
75	100		
155	96.3	50.0	150.0
157	133.3	63.8	191.5

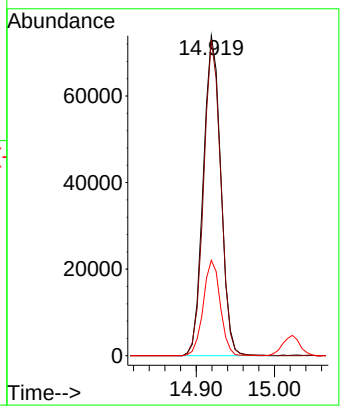




#93
1,2,4-Trichlorobenzene
Concen: 18.029 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:180 Resp: 11477

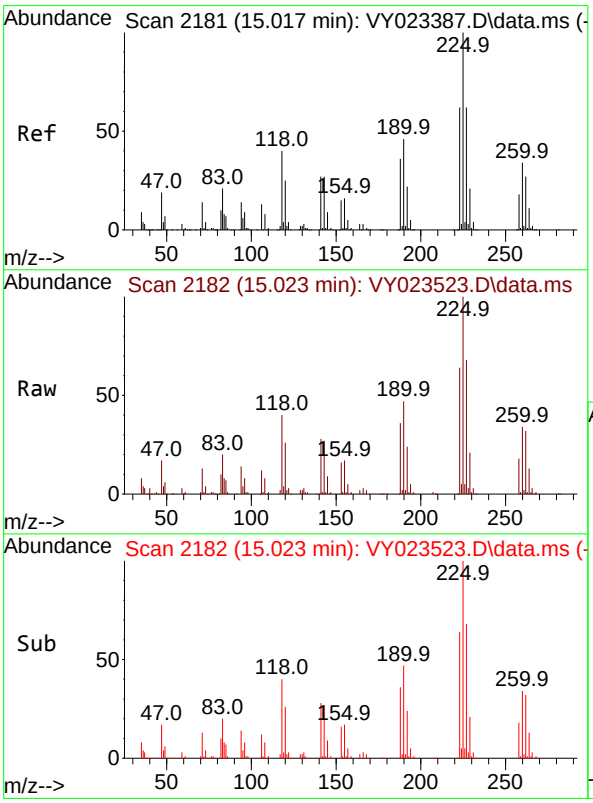
Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.9	143.6
145	28.9	14.7	44.1



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

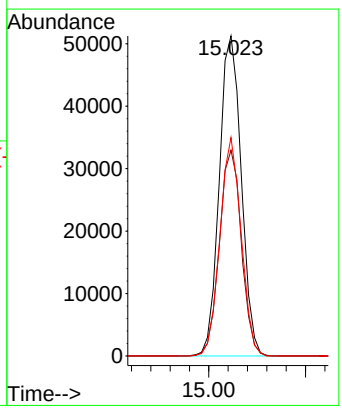
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025

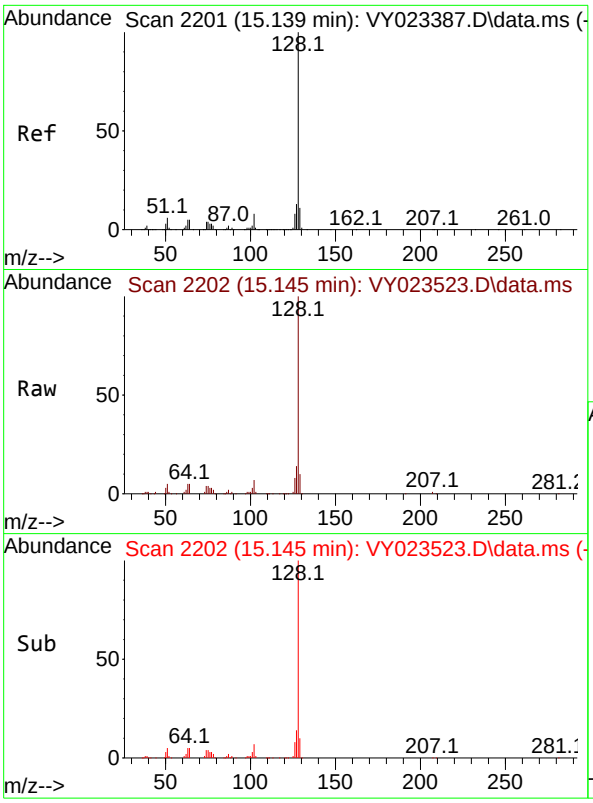


#94
Hexachlorobutadiene
Concen: 20.338 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:225 Resp: 80710

Ion	Ratio	Lower	Upper
225	100		
223	64.0	30.8	92.3
227	66.0	31.9	95.7

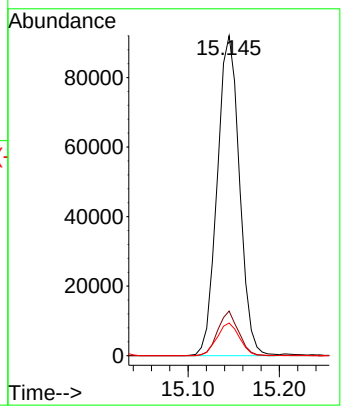




#95
Naphthalene
Concen: 15.384 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:128 Resp: 15595

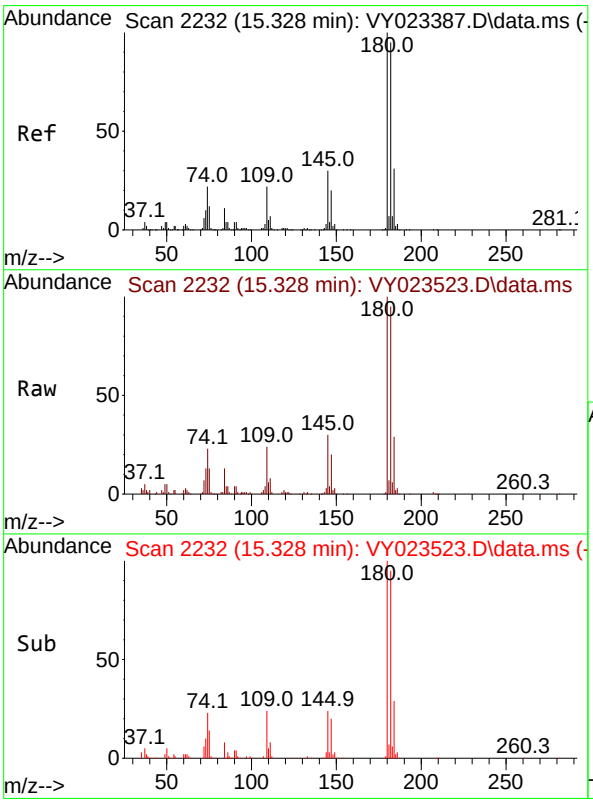
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.4	8.9	13.3



Instrument :
MSVOA_Y
ClientSampleId :
VY1021SBS01

Manual Integrations
APPROVED

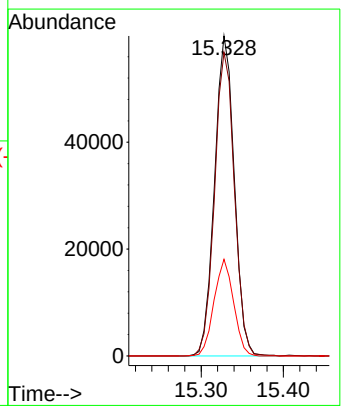
Reviewed By :Amit Patel 10/24/2025
Supervised By :Mahesh Dadoda 10/27/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.100 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.000 min
Lab File: VY023523.D
Acq: 21 Oct 2025 10:04

Tgt Ion:180 Resp: 99805

Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.9	143.8
145	30.0	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:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VW1020SBSD01	SDG No.:	Q3393
Lab Sample ID:	VW1020SBSD01	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	21.7		1	1.10	5.00	ug/Kg	10/20/25 12:03	VW102025
74-87-3	Chloromethane	20.0		1	1.10	5.00	ug/Kg	10/20/25 12:03	VW102025
75-01-4	Vinyl Chloride	21.4		1	0.79	5.00	ug/Kg	10/20/25 12:03	VW102025
74-83-9	Bromomethane	21.7		1	1.10	5.00	ug/Kg	10/20/25 12:03	VW102025
75-00-3	Chloroethane	21.6		1	1.30	5.00	ug/Kg	10/20/25 12:03	VW102025
75-69-4	Trichlorofluoromethane	21.6		1	1.20	5.00	ug/Kg	10/20/25 12:03	VW102025
76-13-1	1,1,2-Trichlorotrifluoroethane	20.6		1	1.10	5.00	ug/Kg	10/20/25 12:03	VW102025
75-35-4	1,1-Dichloroethene	21.6		1	1.00	5.00	ug/Kg	10/20/25 12:03	VW102025
67-64-1	Acetone	110		1	4.70	25.0	ug/Kg	10/20/25 12:03	VW102025
75-15-0	Carbon Disulfide	21.6		1	1.10	5.00	ug/Kg	10/20/25 12:03	VW102025
1634-04-4	Methyl tert-butyl Ether	21.3		1	0.73	5.00	ug/Kg	10/20/25 12:03	VW102025
79-20-9	Methyl Acetate	20.9		1	1.50	5.00	ug/Kg	10/20/25 12:03	VW102025
75-09-2	Methylene Chloride	19.5		1	3.50	10.0	ug/Kg	10/20/25 12:03	VW102025
156-60-5	trans-1,2-Dichloroethene	21.5		1	0.86	5.00	ug/Kg	10/20/25 12:03	VW102025
75-34-3	1,1-Dichloroethane	21.5		1	0.80	5.00	ug/Kg	10/20/25 12:03	VW102025
110-82-7	Cyclohexane	19.7		1	0.79	5.00	ug/Kg	10/20/25 12:03	VW102025
78-93-3	2-Butanone	110		1	6.50	25.0	ug/Kg	10/20/25 12:03	VW102025
56-23-5	Carbon Tetrachloride	22.3		1	0.97	5.00	ug/Kg	10/20/25 12:03	VW102025
156-59-2	cis-1,2-Dichloroethene	21.2		1	0.75	5.00	ug/Kg	10/20/25 12:03	VW102025
74-97-5	Bromochloromethane	21.5		1	1.20	5.00	ug/Kg	10/20/25 12:03	VW102025
67-66-3	Chloroform	22.5		1	0.84	5.00	ug/Kg	10/20/25 12:03	VW102025
71-55-6	1,1,1-Trichloroethane	22.4		1	0.93	5.00	ug/Kg	10/20/25 12:03	VW102025
108-87-2	Methylcyclohexane	19.4		1	0.91	5.00	ug/Kg	10/20/25 12:03	VW102025
71-43-2	Benzene	21.8		1	0.79	5.00	ug/Kg	10/20/25 12:03	VW102025
107-06-2	1,2-Dichloroethane	22.0		1	0.79	5.00	ug/Kg	10/20/25 12:03	VW102025
79-01-6	Trichloroethene	21.9		1	0.81	5.00	ug/Kg	10/20/25 12:03	VW102025
78-87-5	1,2-Dichloropropane	22.2		1	0.91	5.00	ug/Kg	10/20/25 12:03	VW102025
75-27-4	Bromodichloromethane	23.0		1	0.78	5.00	ug/Kg	10/20/25 12:03	VW102025
108-10-1	4-Methyl-2-Pentanone	110		1	3.60	25.0	ug/Kg	10/20/25 12:03	VW102025
108-88-3	Toluene	22.5		1	0.78	5.00	ug/Kg	10/20/25 12:03	VW102025
10061-02-6	t-1,3-Dichloropropene	22.6		1	0.65	5.00	ug/Kg	10/20/25 12:03	VW102025
10061-01-5	cis-1,3-Dichloropropene	22.1		1	0.62	5.00	ug/Kg	10/20/25 12:03	VW102025
79-00-5	1,1,2-Trichloroethane	22.6		1	0.92	5.00	ug/Kg	10/20/25 12:03	VW102025
591-78-6	2-Hexanone	110		1	3.70	25.0	ug/Kg	10/20/25 12:03	VW102025
124-48-1	Dibromochloromethane	23.9		1	0.87	5.00	ug/Kg	10/20/25 12:03	VW102025
106-93-4	1,2-Dibromoethane	22.8		1	0.88	5.00	ug/Kg	10/20/25 12:03	VW102025
127-18-4	Tetrachloroethene	21.7		1	1.10	5.00	ug/Kg	10/20/25 12:03	VW102025
108-90-7	Chlorobenzene	21.3		1	0.91	5.00	ug/Kg	10/20/25 12:03	VW102025
100-41-4	Ethyl Benzene	20.6		1	0.67	5.00	ug/Kg	10/20/25 12:03	VW102025
179601-23-1	m/p-Xylenes	42.2		1	1.20	10.0	ug/Kg	10/20/25 12:03	VW102025
95-47-6	o-Xylene	20.7		1	0.82	5.00	ug/Kg	10/20/25 12:03	VW102025
100-42-5	Styrene	21.8		1	0.71	5.00	ug/Kg	10/20/25 12:03	VW102025
75-25-2	Bromoform	23.5		1	0.86	5.00	ug/Kg	10/20/25 12:03	VW102025

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

Report of Analysis

Client:	AECOM	Date Collected:	
Project:	AE1-CTY 3.2.Z-PR-DOCK-Des-ODC - 60693795-1719206	Date Received:	
Client Sample ID:	VW1020SBSD01	SDG No.:	Q3393
Lab Sample ID:	VW1020SBSD01	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	19.8		1	0.78	5.00	ug/Kg	10/20/25 12:03	VW102025
79-34-5	1,1,2,2-Tetrachloroethane	21.8		1	1.20	5.00	ug/Kg	10/20/25 12:03	VW102025
541-73-1	1,3-Dichlorobenzene	21.5		1	1.70	5.00	ug/Kg	10/20/25 12:03	VW102025
106-46-7	1,4-Dichlorobenzene	21.0		1	1.60	5.00	ug/Kg	10/20/25 12:03	VW102025
95-50-1	1,2-Dichlorobenzene	21.3		1	1.50	5.00	ug/Kg	10/20/25 12:03	VW102025
96-12-8	1,2-Dibromo-3-Chloropropane	23.0		1	1.80	5.00	ug/Kg	10/20/25 12:03	VW102025
120-82-1	1,2,4-Trichlorobenzene	20.3		1	3.00	5.00	ug/Kg	10/20/25 12:03	VW102025
87-61-6	1,2,3-Trichlorobenzene	20.9		1	3.20	5.00	ug/Kg	10/20/25 12:03	VW102025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.1			63 - 155	106%	SPK: 50		
1868-53-7	Dibromofluoromethane	54.5			70 - 134	109%	SPK: 50		
2037-26-5	Toluene-d8	54.5			74 - 123	109%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.8			17 - 146	106%	SPK: 50		
INTERNAL STANDARDS		**Area Count**							
363-72-4	Pentafluorobenzene	281000							
540-36-3	1,4-Difluorobenzene	508000							
3114-55-4	Chlorobenzene-d5	481000							
3855-82-1	1,4-Dichlorobenzene-d4	240000							

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_W\Data\VW102025\
Data File : VW032381.D
Acq On : 20 Oct 2025 12:03
Operator : SY/MD
Sample : VW1020SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 01:24:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	7.959	168	280654	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	507546	50.000 ug/l	0.00
63) Chlorobenzene-d5	11.629	117	481210	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	239754	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	8.319	65	217533	53.141 ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 106.280%		
35) Dibromofluoromethane	7.898	113	179061	54.477 ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 108.960%		
50) Toluene-d8	10.325	98	661666	54.542 ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 109.080%		
62) 4-Bromofluorobenzene	12.617	95	242303	52.844 ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 105.680%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.046	85	38260	21.725 ug/l	90
3) Chloromethane	2.259	50	54381	20.012 ug/l	99
4) Vinyl Chloride	2.405	62	69484	21.417 ug/l	99
5) Bromomethane	2.820	94	51628	21.655 ug/l	94
6) Chloroethane	2.966	64	46314	21.623 ug/l	99
7) Trichlorofluoromethane	3.308	101	52367	21.558 ug/l	97
8) Diethyl Ether	3.722	74	45743	21.732 ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.100	101	59942	20.574 ug/l	95
10) Methyl Iodide	4.301	142	94105	22.637 ug/l	98
11) Tert butyl alcohol	5.222	59	29901	96.501 ug/l	100
12) 1,1-Dichloroethene	4.082	96	68420	21.631 ug/l	95
13) Acrolein	3.936	56	35875	71.340 ug/l	97
14) Allyl chloride	4.704	41	111568	20.883 ug/l	90
15) Acrylonitrile	5.405	53	118234	107.973 ug/l	98
16) Acetone	4.161	43	129324	114.096 ug/l	100
17) Carbon Disulfide	4.423	76	186017	21.554 ug/l	98
18) Methyl Acetate	4.710	43	67884	20.907 ug/l	98
19) Methyl tert-butyl Ether	5.466	73	132675	21.297 ug/l	96
20) Methylene Chloride	4.954	84	85418	19.504 ug/l	96
21) trans-1,2-Dichloroethene	5.466	96	75118	21.451 ug/l	93
22) Diisopropyl ether	6.344	45	237926	21.414 ug/l	94
23) Vinyl Acetate	6.283	43	795696	107.218 ug/l	99
24) 1,1-Dichloroethane	6.246	63	145116	21.498 ug/l	99
25) 2-Butanone	7.197	43	163261	105.758 ug/l	97
26) 2,2-Dichloropropane	7.185	77	80056	23.186 ug/l	97
27) cis-1,2-Dichloroethene	7.191	96	89110	21.181 ug/l	93
28) Bromochloromethane	7.532	49	68220	21.481 ug/l	88
29) Tetrahydrofuran	7.551	42	101574	104.629 ug/l	97
30) Chloroform	7.697	83	154033	22.500 ug/l	98
31) Cyclohexane	7.971	56	113240	19.650 ug/l	98
32) 1,1,1-Trichloroethane	7.886	97	108696	22.406 ug/l	99
36) 1,1-Dichloropropene	8.099	75	99568	21.464 ug/l	97
37) Ethyl Acetate	7.270	43	69858	22.625 ug/l	99
38) Carbon Tetrachloride	8.087	117	97363	22.304 ug/l	99
39) Methylcyclohexane	9.343	83	108498	19.391 ug/l	91
40) Benzene	8.337	78	317626	21.845 ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032381.D
Acq On : 20 Oct 2025 12:03
Operator : SY/MD
Sample : VW1020SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 01:24:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.502	41	35802	21.516	ug/l		92
42) 1,2-Dichloroethane	8.410	62	104797	22.027	ug/l		99
43) Isopropyl Acetate	8.441	43	119189	21.760	ug/l		99
44) Trichloroethene	9.105	130	74572	21.903	ug/l		87
45) 1,2-Dichloropropane	9.374	63	80449	22.167	ug/l		99
46) Dibromomethane	9.465	93	51190	22.938	ug/l		96
47) Bromodichloromethane	9.654	83	117508	23.021	ug/l		98
48) Methyl methacrylate	9.441	41	57356	21.537	ug/l		94
49) 1,4-Dioxane	9.471	88	13587	445.427	ug/l	#	79
51) 4-Methyl-2-Pentanone	10.215	43	354720	111.810	ug/l		98
52) Toluene	10.392	92	203658	22.492	ug/l		99
53) t-1,3-Dichloropropene	10.611	75	111694	22.555	ug/l		98
54) cis-1,3-Dichloropropene	10.081	75	125815	22.056	ug/l		95
55) 1,1,2-Trichloroethane	10.788	97	67523	22.638	ug/l		95
56) Ethyl methacrylate	10.648	69	88799	21.270	ug/l		95
57) 1,3-Dichloropropane	10.934	76	116984	22.206	ug/l		100
58) 2-Chloroethyl Vinyl ether	9.928	63	228377	102.786	ug/l		94
59) 2-Hexanone	10.971	43	256232	114.515	ug/l		98
60) Dibromochloromethane	11.129	129	80852	23.873	ug/l		99
61) 1,2-Dibromoethane	11.239	107	66335	22.808	ug/l		100
64) Tetrachloroethene	10.867	164	62577	21.732	ug/l		94
65) Chlorobenzene	11.654	112	225826	21.329	ug/l		99
66) 1,1,1,2-Tetrachloroethane	11.733	131	74057	22.457	ug/l		96
67) Ethyl Benzene	11.727	91	364394	20.647	ug/l		99
68) m/p-Xylenes	11.837	106	287294	42.215	ug/l		100
69) o-Xylene	12.166	106	131683	20.691	ug/l		97
70) Styrene	12.178	104	242035	21.782	ug/l		97
71) Bromoform	12.349	173	44334	23.454	ug/l	#	100
73) Isopropylbenzene	12.458	105	324846	19.804	ug/l		100
74) N-amyl acetate	12.269	43	109272	20.882	ug/l		98
75) 1,1,2,2-Tetrachloroethane	12.714	83	88855	21.817	ug/l		99
76) 1,2,3-Trichloropropane	12.763	75	65188m	20.661	ug/l		
77) Bromobenzene	12.745	156	84499	21.370	ug/l		90
78) n-propylbenzene	12.800	91	420117	20.504	ug/l		96
79) 2-Chlorotoluene	12.891	91	258195	20.609	ug/l		99
80) 1,3,5-Trimethylbenzene	12.940	105	292510	20.623	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.507	75	28345	22.759	ug/l		91
82) 4-Chlorotoluene	12.983	91	277521	20.836	ug/l		99
83) tert-Butylbenzene	13.202	119	232552	19.983	ug/l		96
84) 1,2,4-Trimethylbenzene	13.245	105	302270	20.959	ug/l		99
85) sec-Butylbenzene	13.379	105	358589	20.163	ug/l		98
86) p-Isopropyltoluene	13.495	119	297141	20.136	ug/l		98
87) 1,3-Dichlorobenzene	13.495	146	171969	21.478	ug/l		97
88) 1,4-Dichlorobenzene	13.574	146	168290	21.021	ug/l		98
89) n-Butylbenzene	13.818	91	291522	20.234	ug/l		98
90) Hexachloroethane	14.086	117	61557	23.273	ug/l		95
91) 1,2-Dichlorobenzene	13.867	146	154465	21.342	ug/l		97
92) 1,2-Dibromo-3-Chloropr...	14.476	75	16422	23.030	ug/l		83
93) 1,2,4-Trichlorobenzene	15.129	180	87912	20.256	ug/l		94
94) Hexachlorobutadiene	15.232	225	43154	21.748	ug/l		96
95) Naphthalene	15.360	128	208869	20.040	ug/l		100
96) 1,2,3-Trichlorobenzene	15.543	180	85615	20.929	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032381.D
Acq On : 20 Oct 2025 12:03
Operator : SY/MD
Sample : VW1020SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 21 01:24:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

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

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

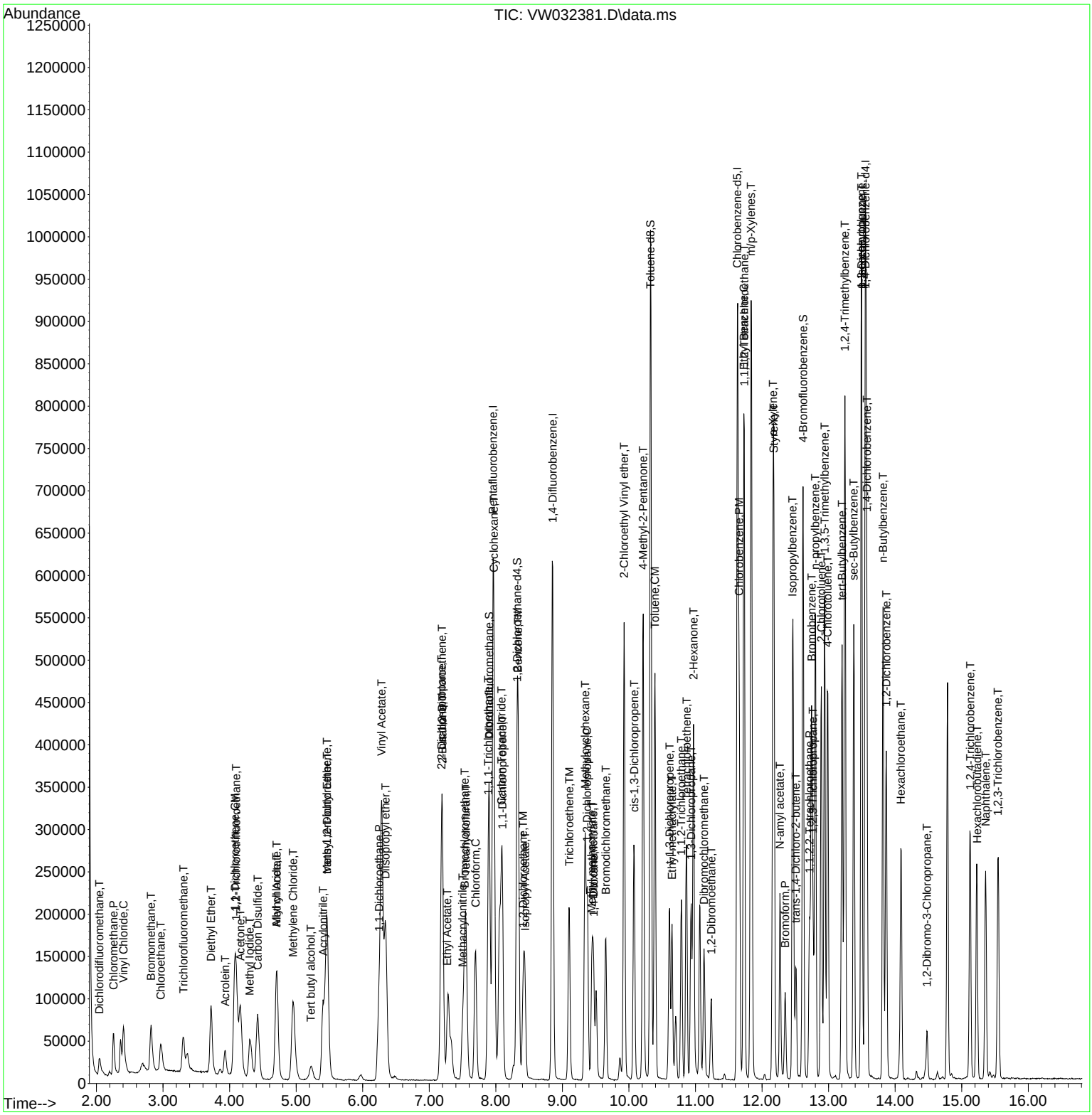
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
Data File : VW032381.D
Acq On : 20 Oct 2025 12:03
Operator : SY/MD
Sample : VW1020SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

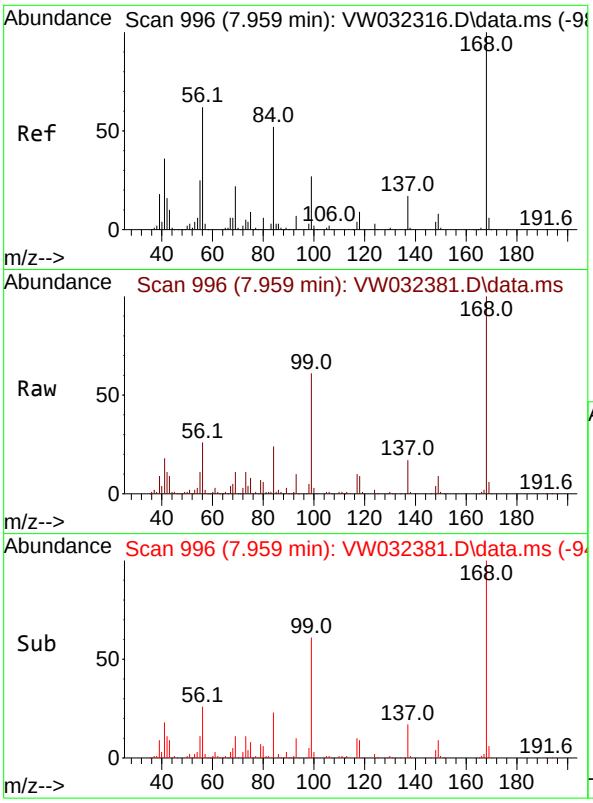
Quant Time: Oct 21 01:24:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

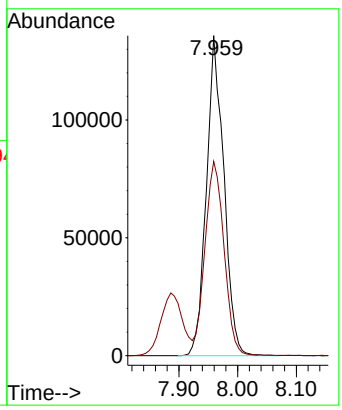




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:168 Resp: 28065

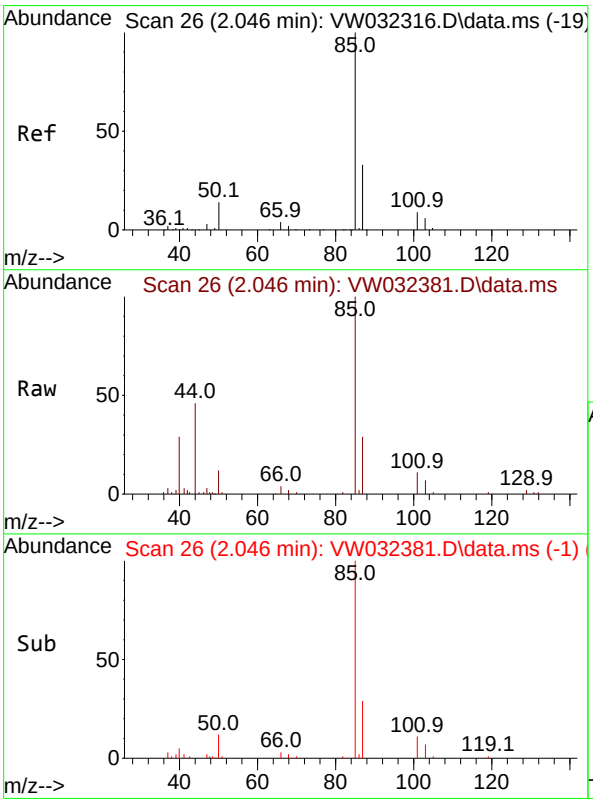
Ion	Ratio	Lower	Upper
168	100		
99	60.6	49.3	73.9



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

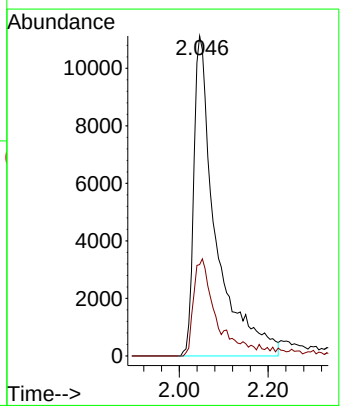
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

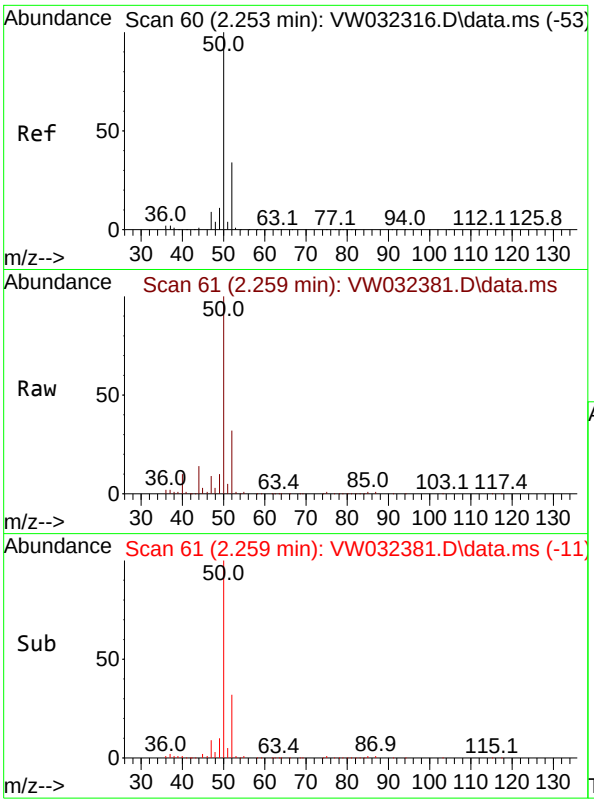


#2
Dichlorodifluoromethane
Concen: 21.725 ug/l
RT: 2.046 min Scan# 26
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 85 Resp: 38260

Ion	Ratio	Lower	Upper
85	100		
87	28.5	17.2	51.6

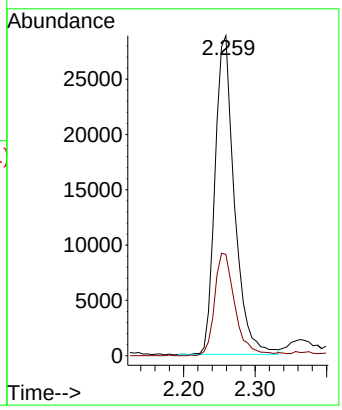




#3
Chloromethane
Concen: 20.012 ug/l
RT: 2.259 min Scan# 6
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 50 Resp: 5438

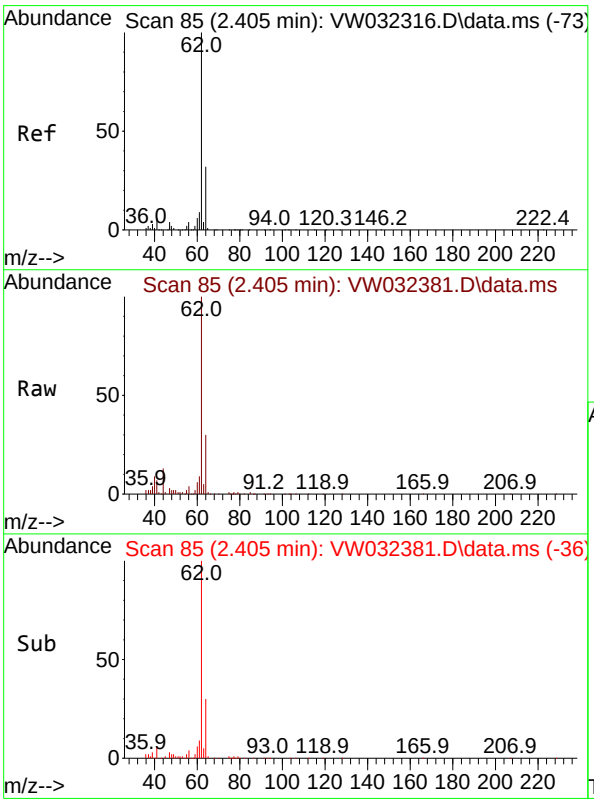
Ion	Ratio	Lower	Upper
50	100		
52	31.8	26.1	39.1



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

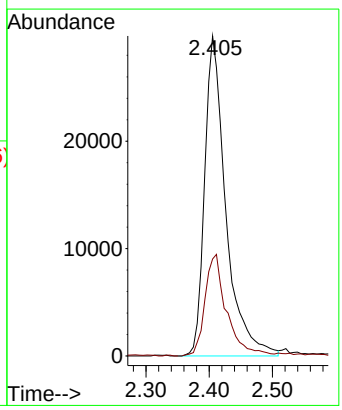
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

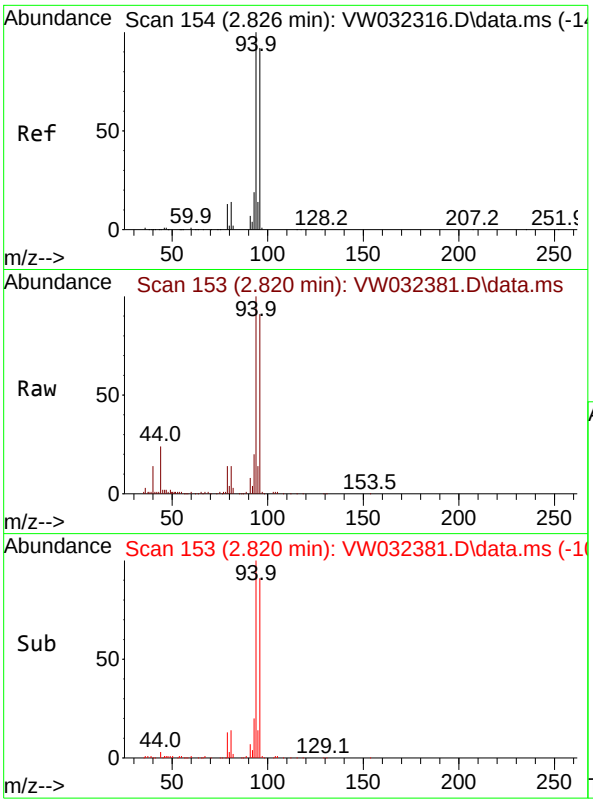


#4
Vinyl Chloride
Concen: 21.417 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 62 Resp: 69484

Ion	Ratio	Lower	Upper
62	100		
64	30.3	24.8	37.2

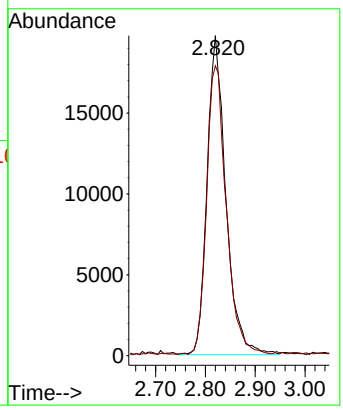




#5
Bromomethane
Concen: 21.655 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 94 Resp: 5162

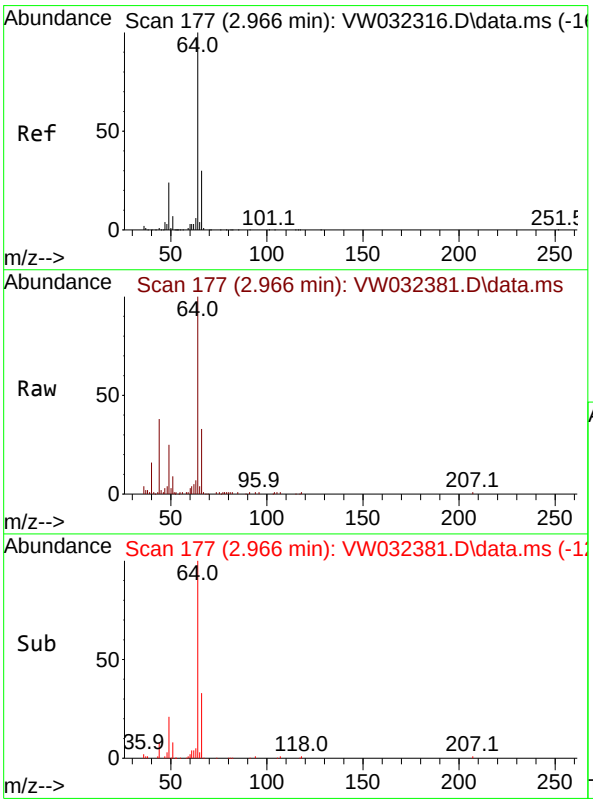
Ion	Ratio	Lower	Upper
94	100		
96	90.3	76.6	115.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

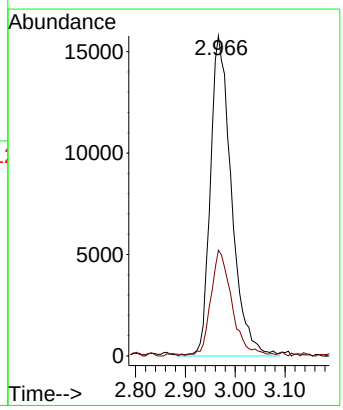
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

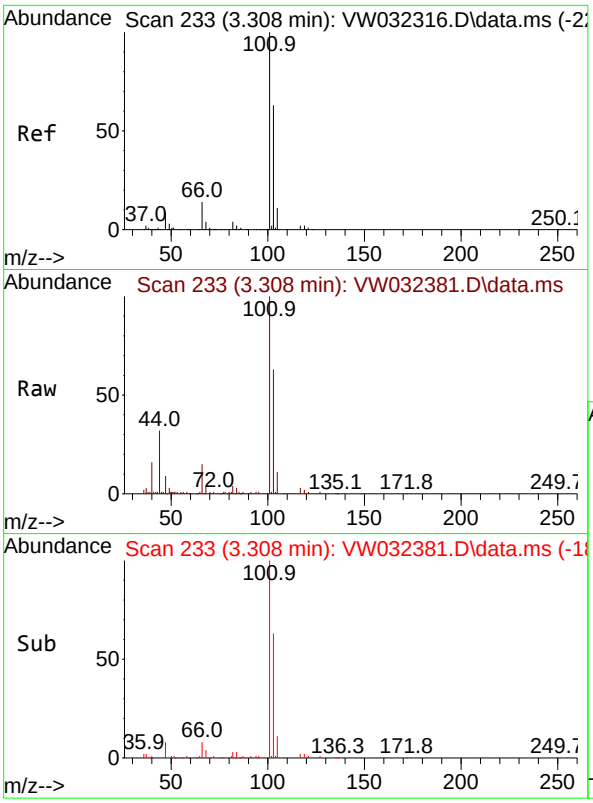


#6
Chloroethane
Concen: 21.623 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 64 Resp: 46314

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.2	39.4





#7
Trichlorofluoromethane
Concen: 21.558 ug/l
RT: 3.308 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

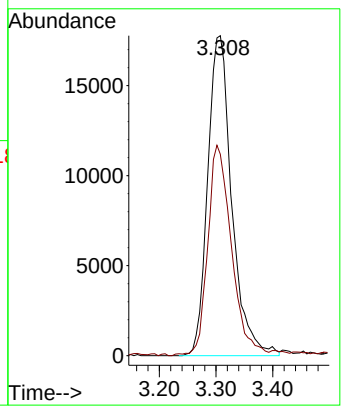
Tgt Ion:101 Resp: 5236

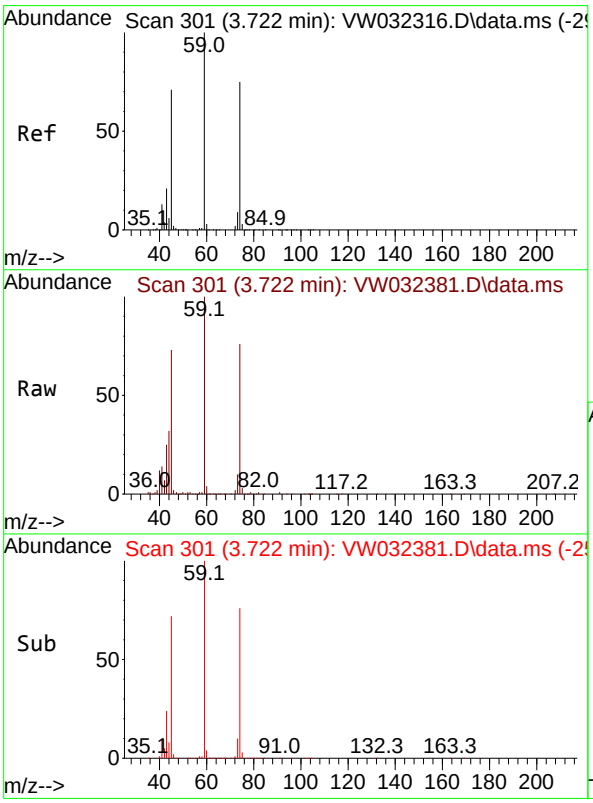
Ion	Ratio	Lower	Upper
101	100		
103	62.3	47.8	71.8

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

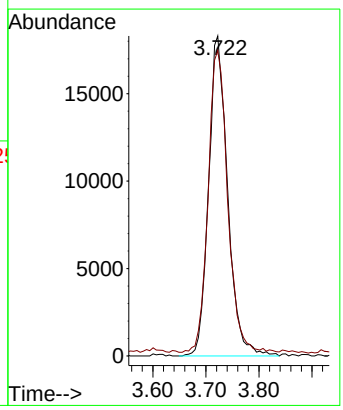


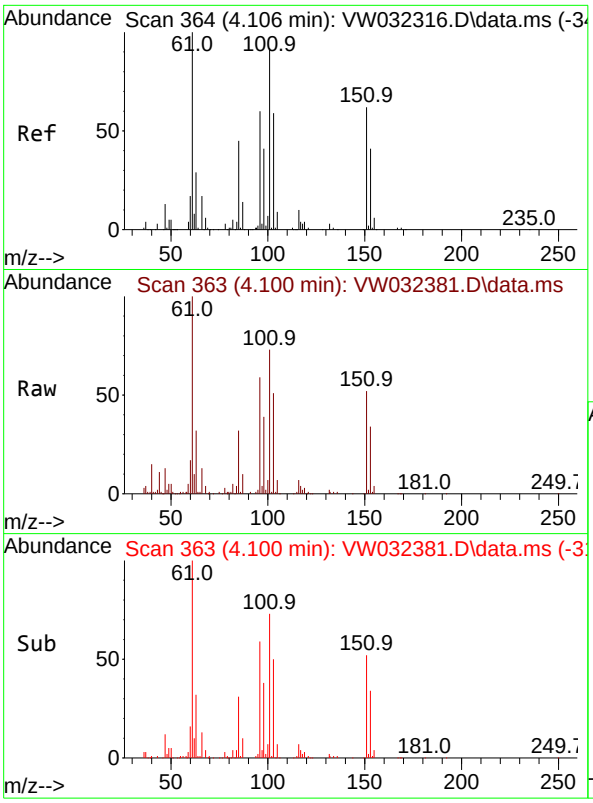


#8
Diethyl Ether
Concen: 21.732 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 74 Resp: 45743

Ion	Ratio	Lower	Upper
74	100		
45	96.4	43.1	129.4





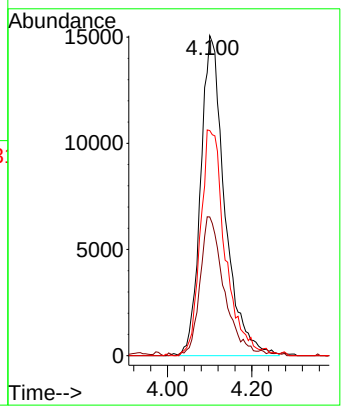
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.574 ug/l
RT: 4.100 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

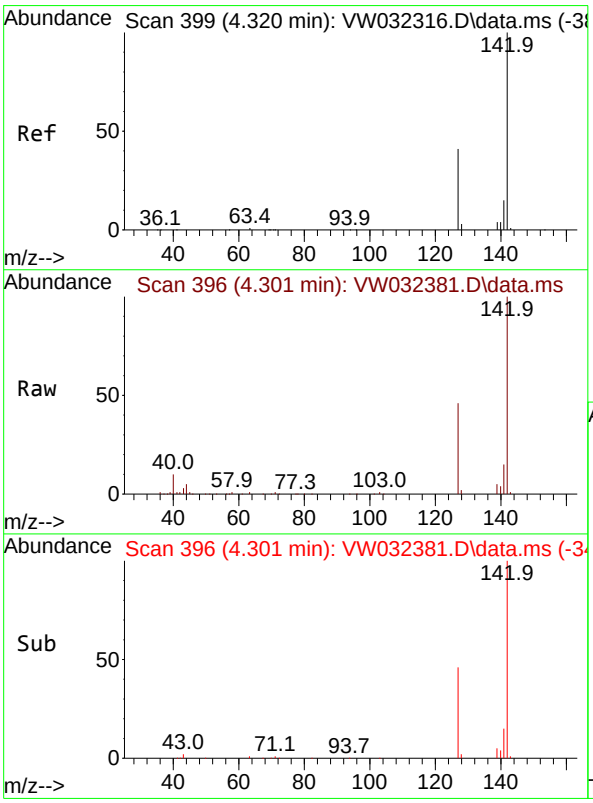
Tgt Ion:101 Resp: 5994

Ion	Ratio	Lower	Upper
101	100		
85	43.1	37.1	55.7
151	72.1	61.5	92.3

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

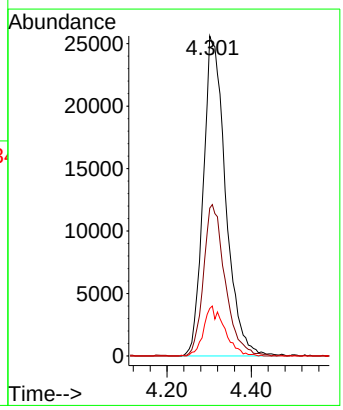


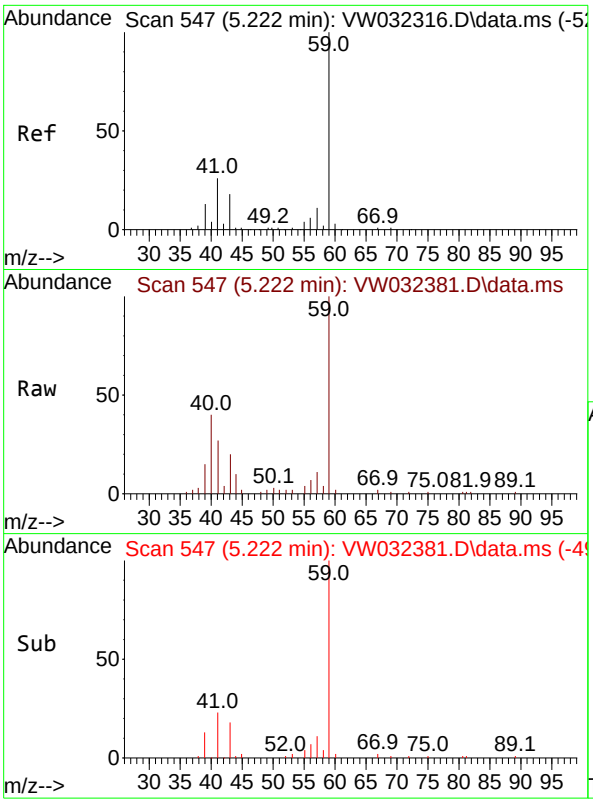


#10
Methyl Iodide
Concen: 22.637 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.012 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:142 Resp: 94105

Ion	Ratio	Lower	Upper
142	100		
127	46.0	38.2	57.2
141	14.7	12.2	18.2

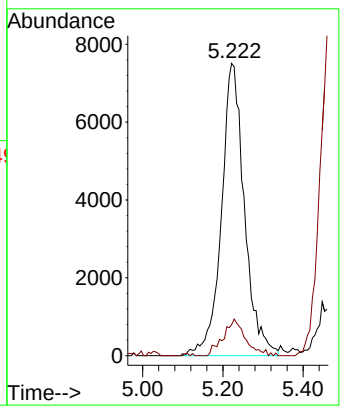




#11
Tert butyl alcohol
Concen: 96.501 ug/l
RT: 5.222 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 59 Resp: 2990

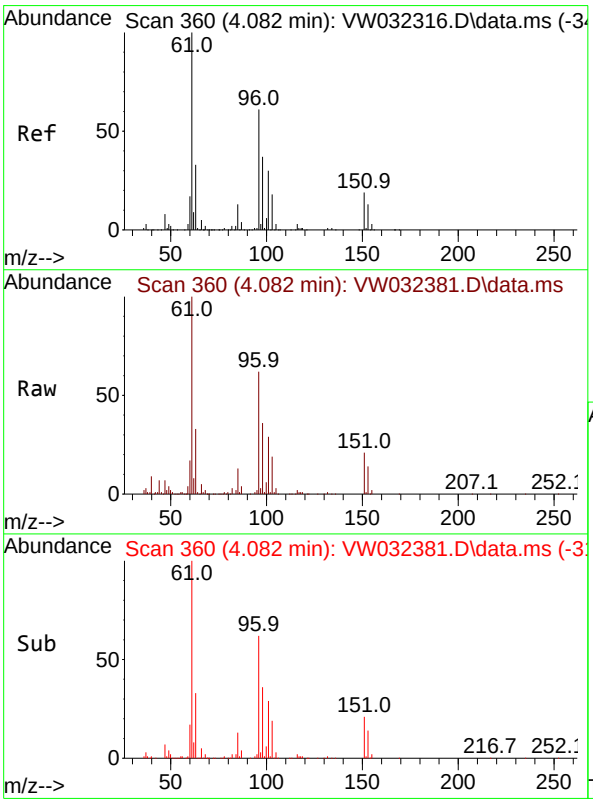
Ion	Ratio	Lower	Upper
59	100		
57	12.1	9.8	14.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

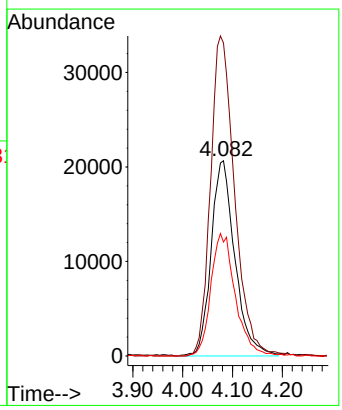
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

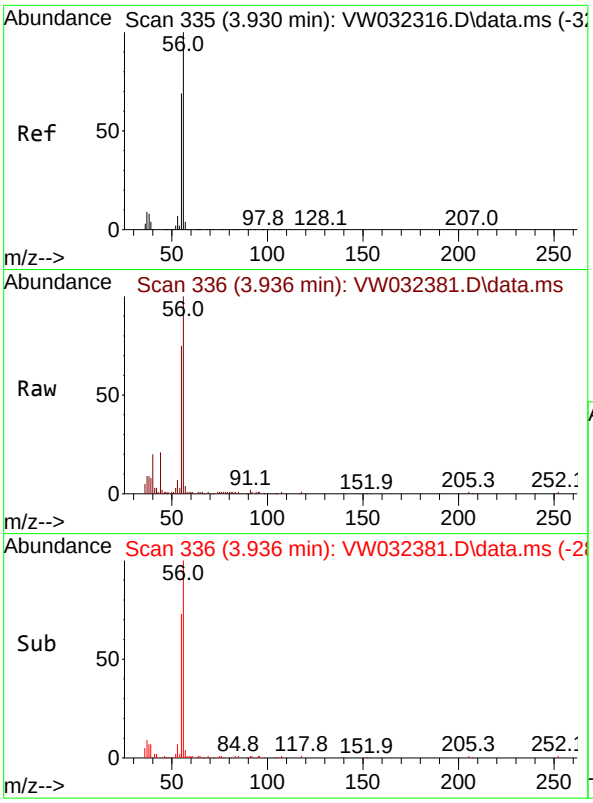


#12
1,1-Dichloroethene
Concen: 21.631 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 96 Resp: 68420

Ion	Ratio	Lower	Upper
96	100		
61	160.3	123.0	184.4
98	58.3	48.5	72.7

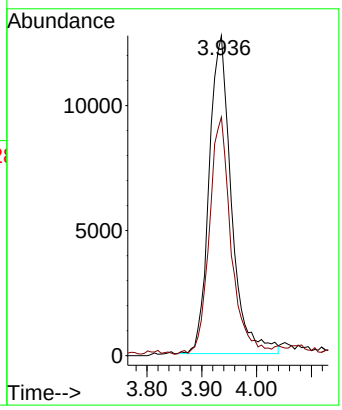




#13
Acrolein
Concen: 71.340 ug/l
RT: 3.936 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 56 Resp: 3587

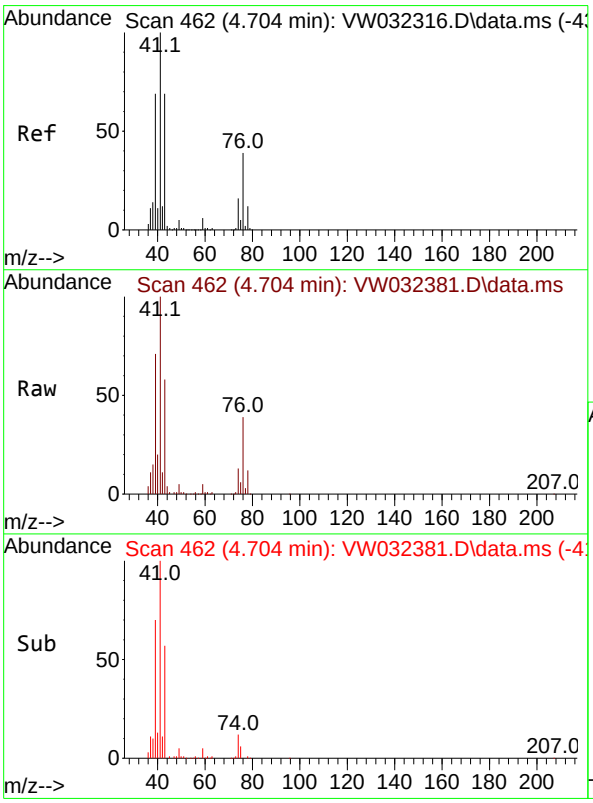
Ion	Ratio	Lower	Upper
56	100		
55	72.8	56.4	84.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

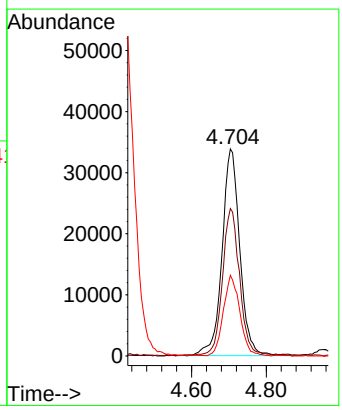
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

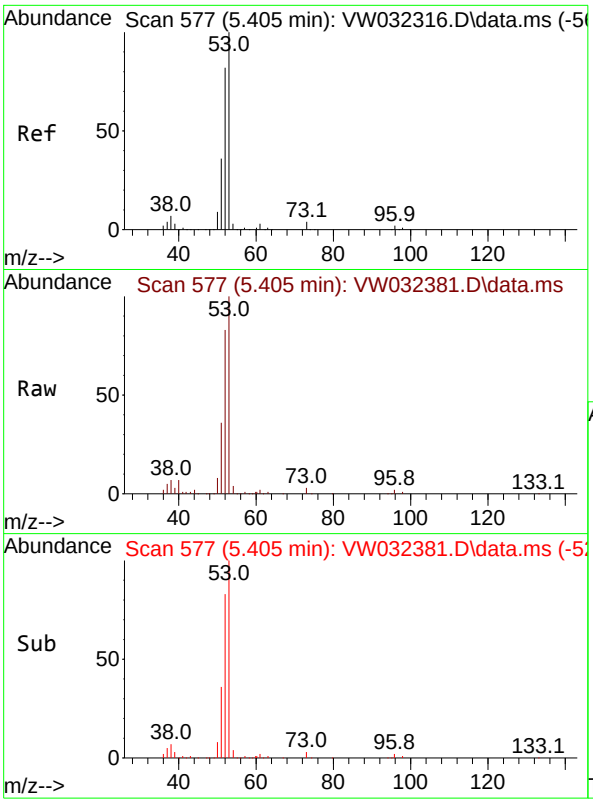


#14
Allyl chloride
Concen: 20.883 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 41 Resp: 111568

Ion	Ratio	Lower	Upper
41	100		
39	69.4	64.1	96.1
76	36.4	31.4	47.2





#15
Acrylonitrile
Concen: 107.973 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

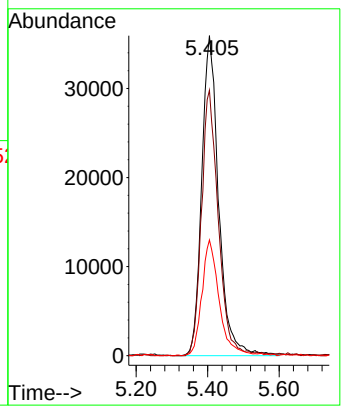
Tgt Ion: 53 Resp: 11823

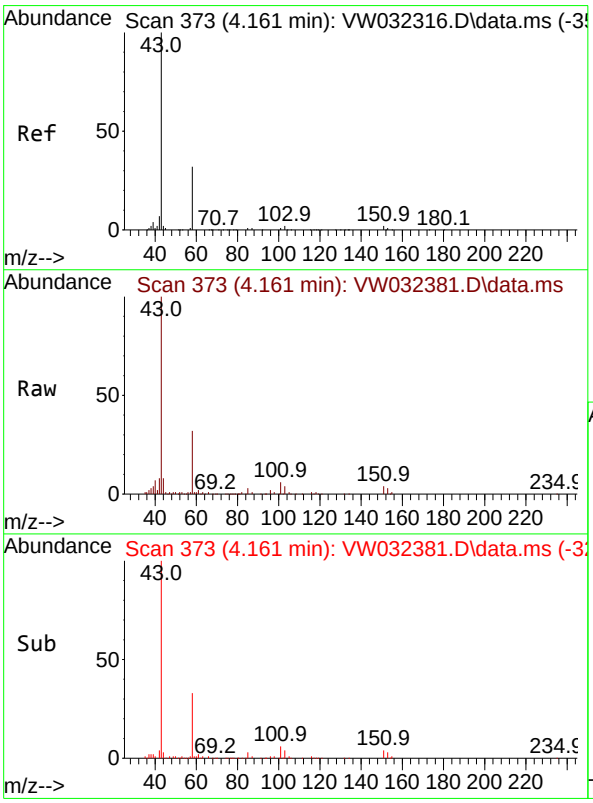
Ion	Ratio	Lower	Upper
53	100		
52	82.2	67.4	101.2
51	36.8	30.3	45.5

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

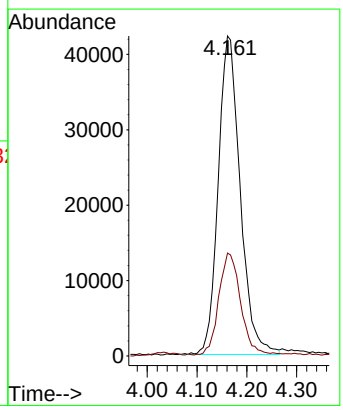


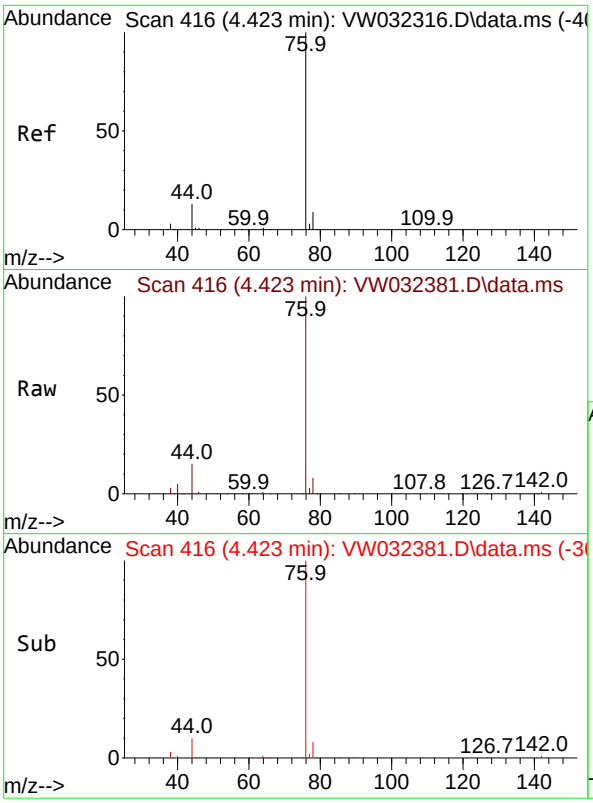


#16
Acetone
Concen: 114.096 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 43 Resp: 129324

Ion	Ratio	Lower	Upper
43	100		
58	31.6	25.3	37.9





#17
Carbon Disulfide
Concen: 21.554 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

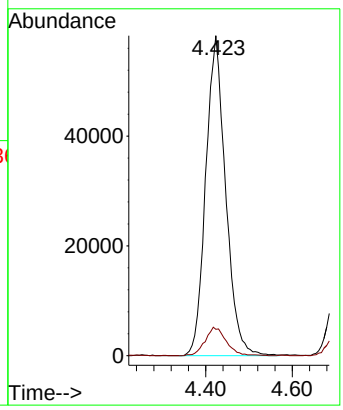
Tgt Ion: 76 Resp: 18601

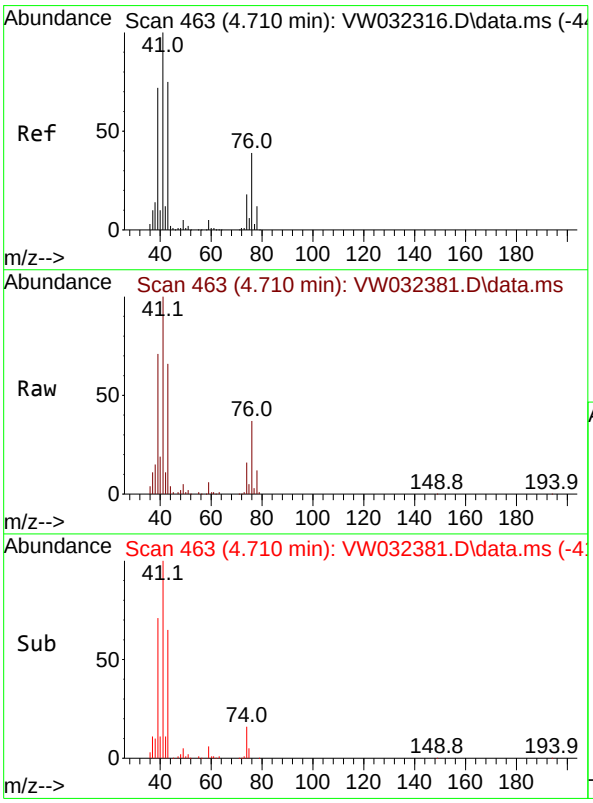
Ion	Ratio	Lower	Upper
76	100		
78	8.3	7.0	10.6

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

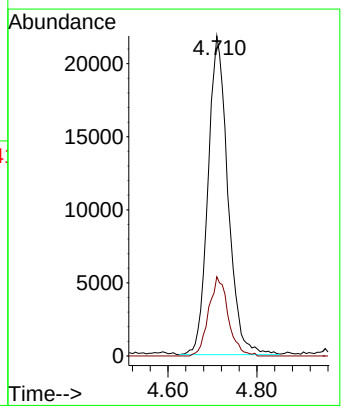


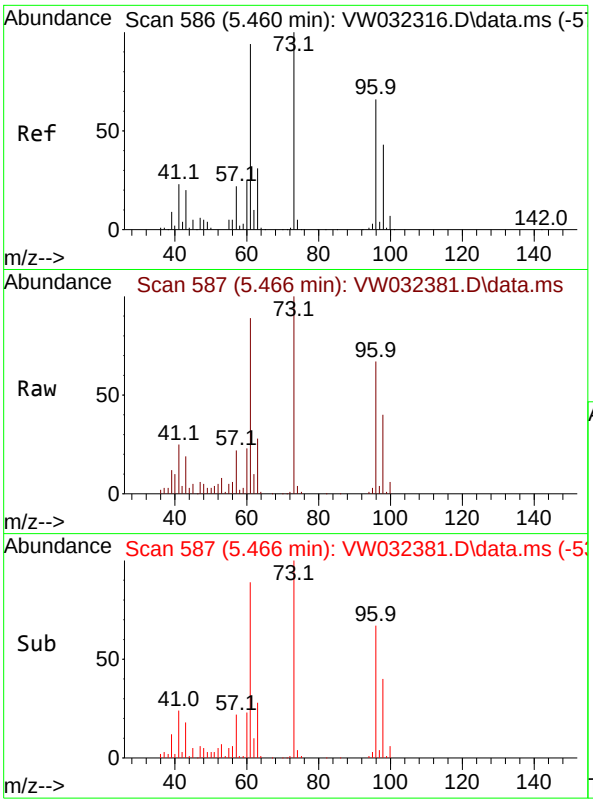


#18
Methyl Acetate
Concen: 20.907 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 43 Resp: 67884

Ion	Ratio	Lower	Upper
43	100		
74	24.4	20.2	30.4

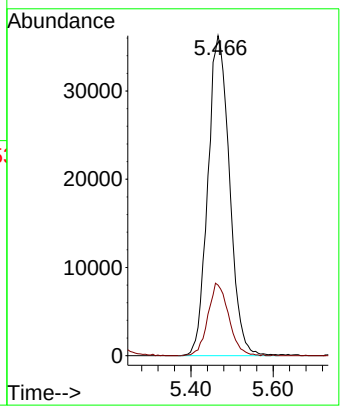




#19
Methyl tert-butyl Ether
Concen: 21.297 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 73 Resp: 13267

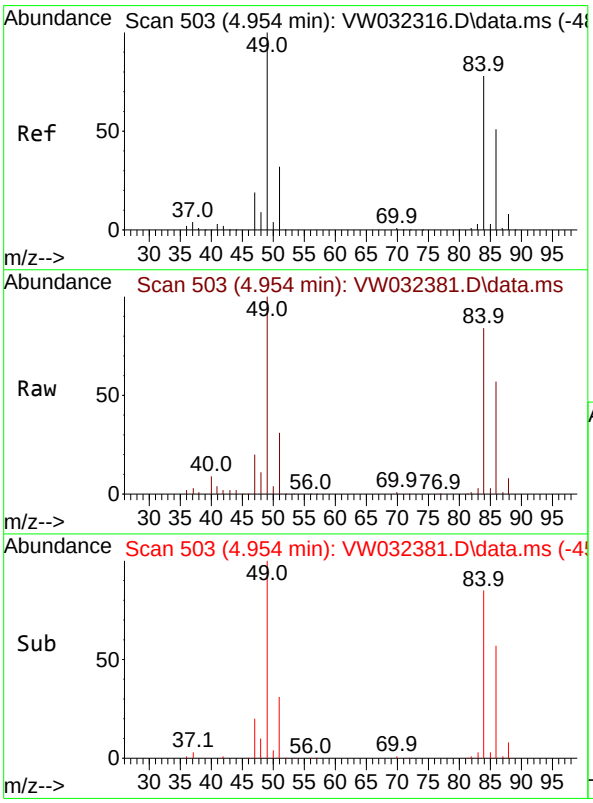
Ion	Ratio	Lower	Upper
73	100		
57	22.1	16.2	24.4



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

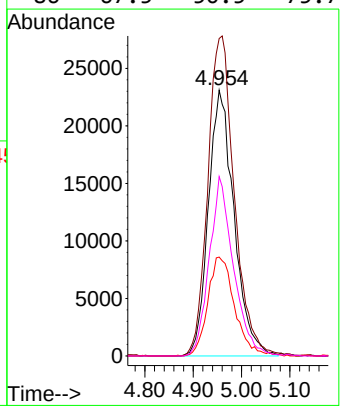
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

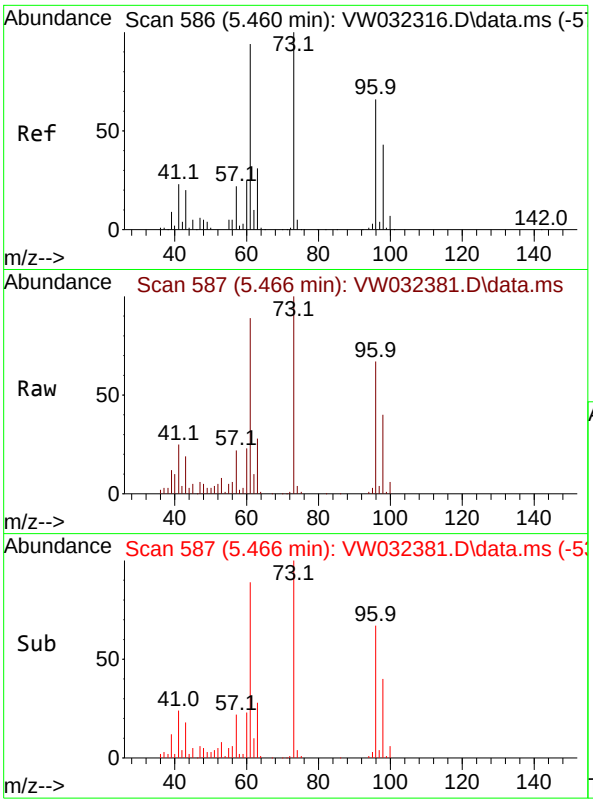


#20
Methylene Chloride
Concen: 19.504 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 84 Resp: 85418

Ion	Ratio	Lower	Upper
84	100		
49	119.4	92.2	138.4
51	36.9	31.0	46.6
86	67.5	50.5	75.7

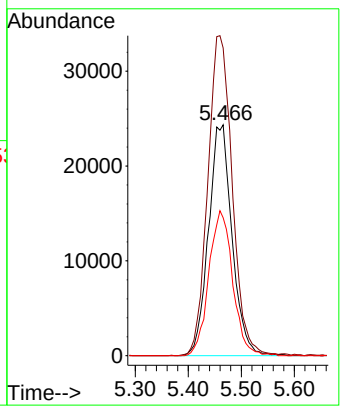




#21
trans-1,2-Dichloroethene
Concen: 21.451 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

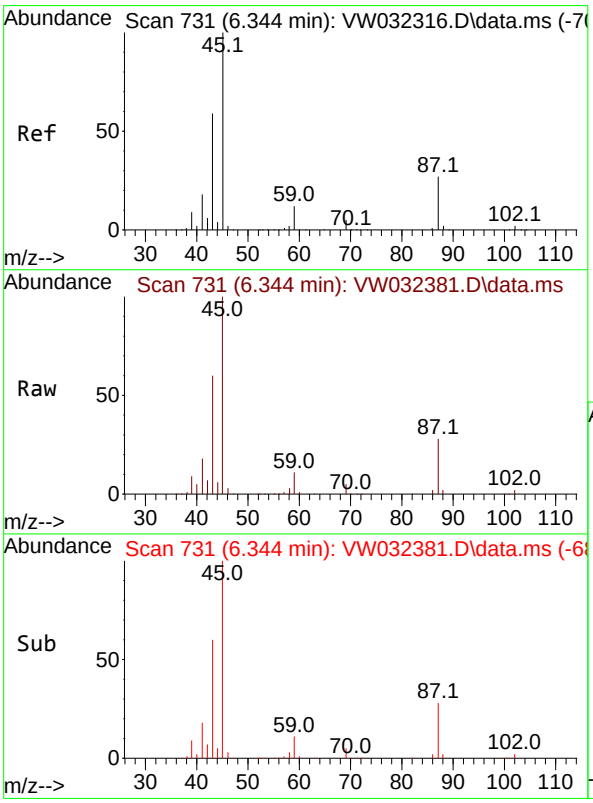
Tgt Ion: 96 Resp: 7511

Ion	Ratio	Lower	Upper
96	100		
61	133.2	112.5	168.7
98	59.7	54.2	81.4



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

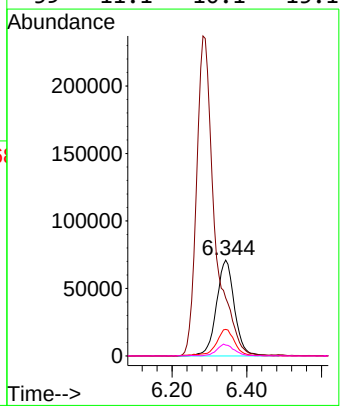
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

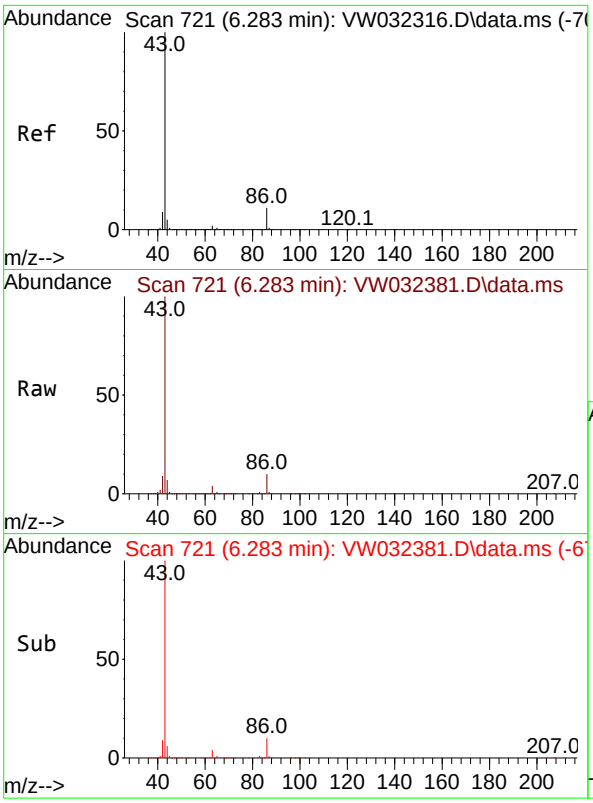


#22
Diisopropyl ether
Concen: 21.414 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 45 Resp: 237926

Ion	Ratio	Lower	Upper
45	100		
43	60.2	51.4	77.2
87	27.6	25.9	38.9
59	11.1	10.1	15.1

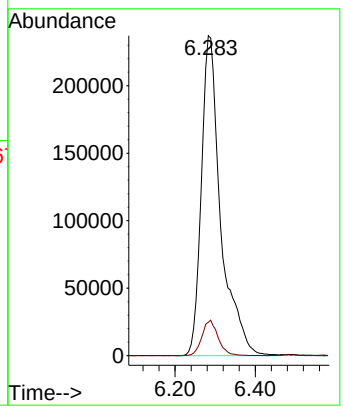




#23
Vinyl Acetate
Concen: 107.218 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 43 Resp: 79569

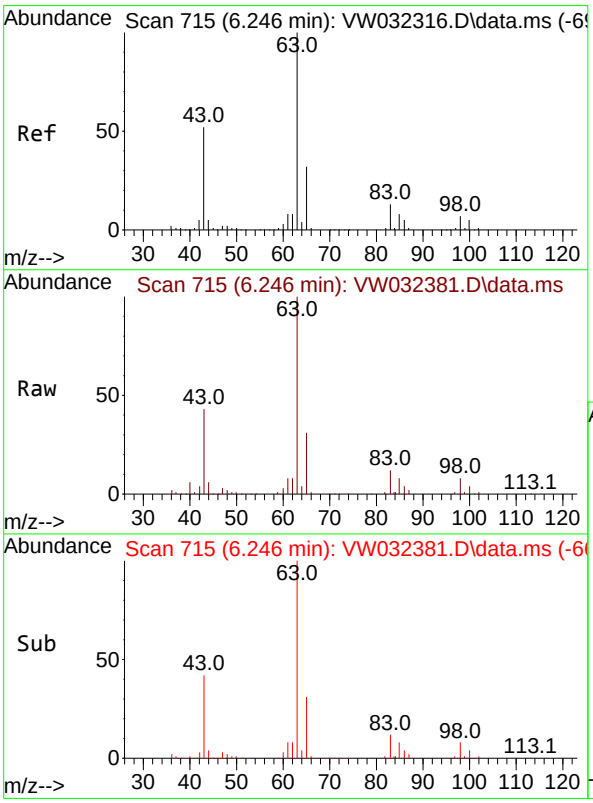
Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.8	13.2



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

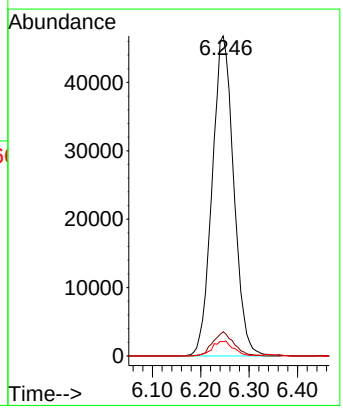
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

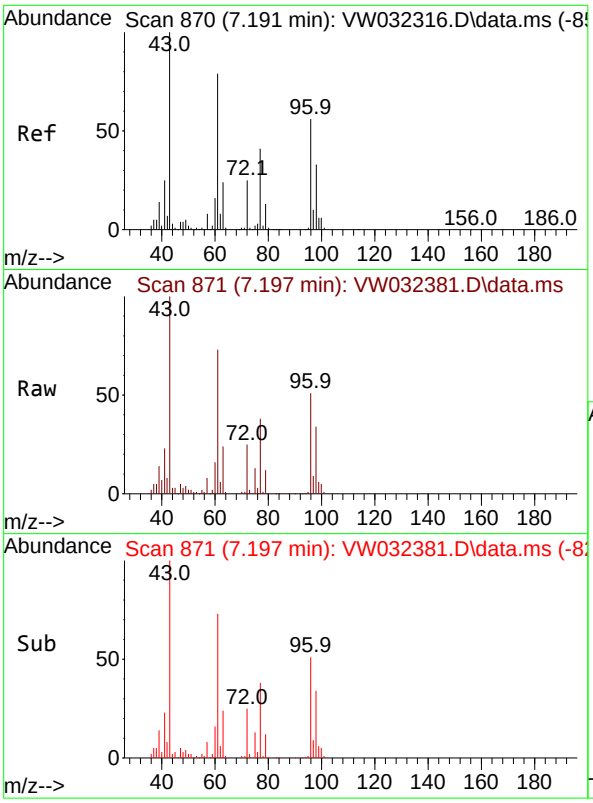


#24
1,1-Dichloroethane
Concen: 21.498 ug/l
RT: 6.246 min Scan# 715
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 63 Resp: 145116

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.8	11.2
100	4.5	2.5	7.5

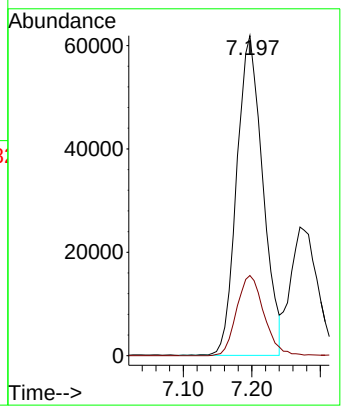




#25
2-Butanone
Concen: 105.758 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 43 Resp: 16326

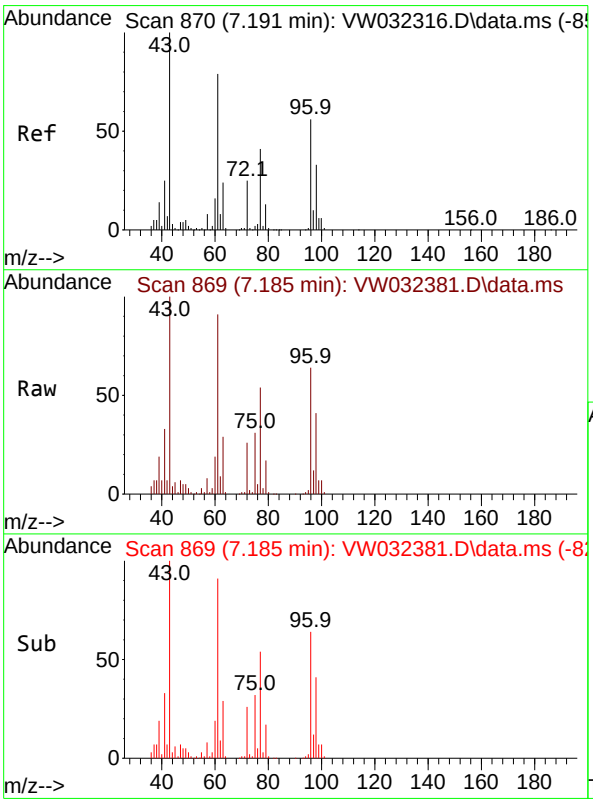
Ion	Ratio	Lower	Upper
43	100		
72	25.1	21.4	32.2



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

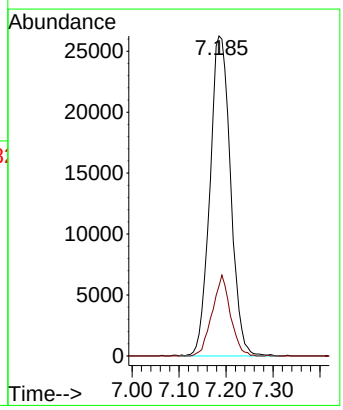
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

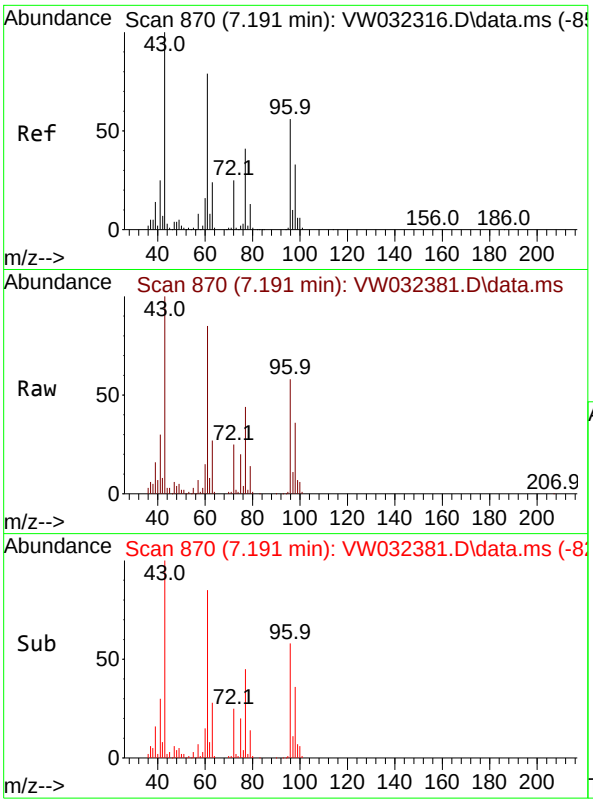


#26
2,2-Dichloropropane
Concen: 23.186 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 77 Resp: 80056

Ion	Ratio	Lower	Upper
77	100		
97	22.4	11.9	35.5

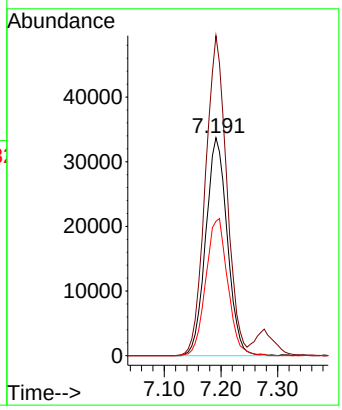




#27
cis-1,2-Dichloroethene
Concen: 21.181 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 96 Resp: 8911

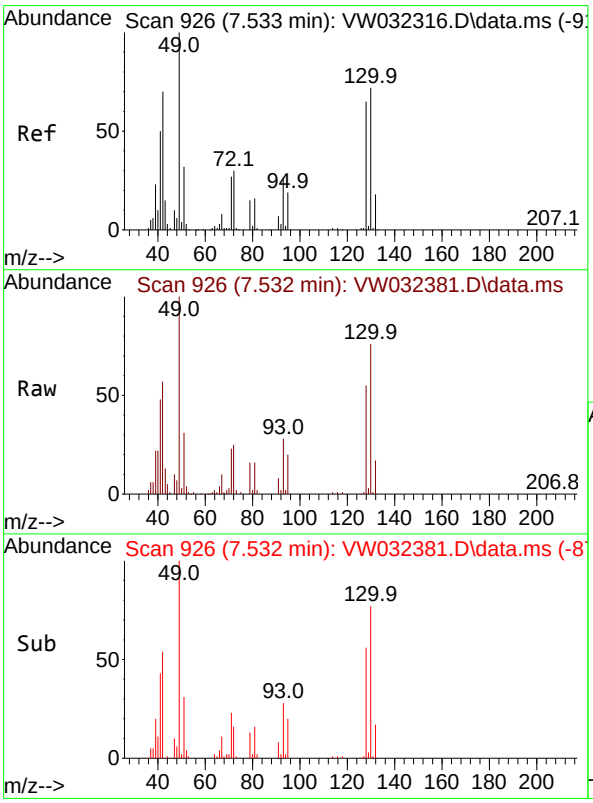
Ion	Ratio	Lower	Upper
96	100		
61	144.8	0.0	268.0
98	64.1	0.0	130.8



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

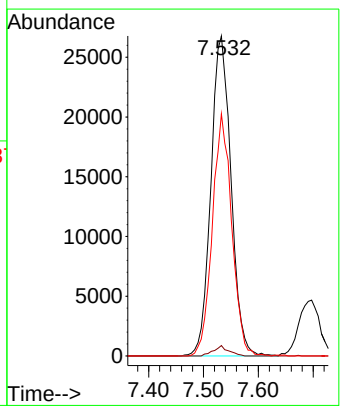
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

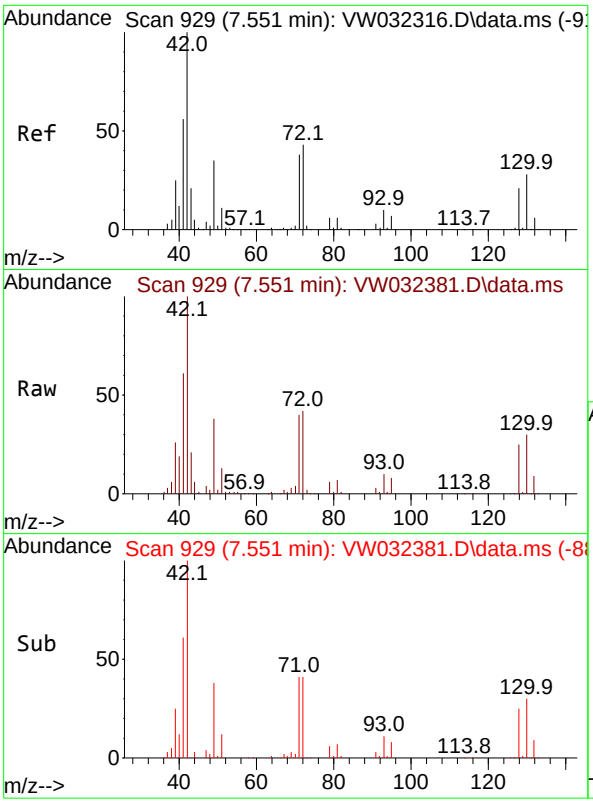


#28
Bromochloromethane
Concen: 21.481 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 49 Resp: 68220

Ion	Ratio	Lower	Upper
49	100		
129	2.4	0.0	4.2
130	72.9	67.5	101.3

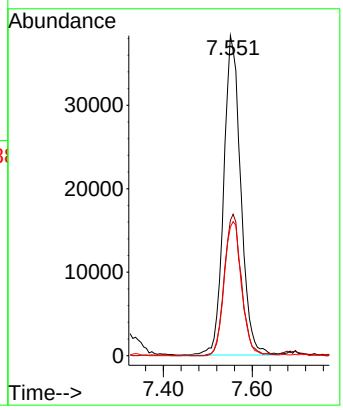




#29
Tetrahydrofuran
Concen: 104.629 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 42 Resp: 10157

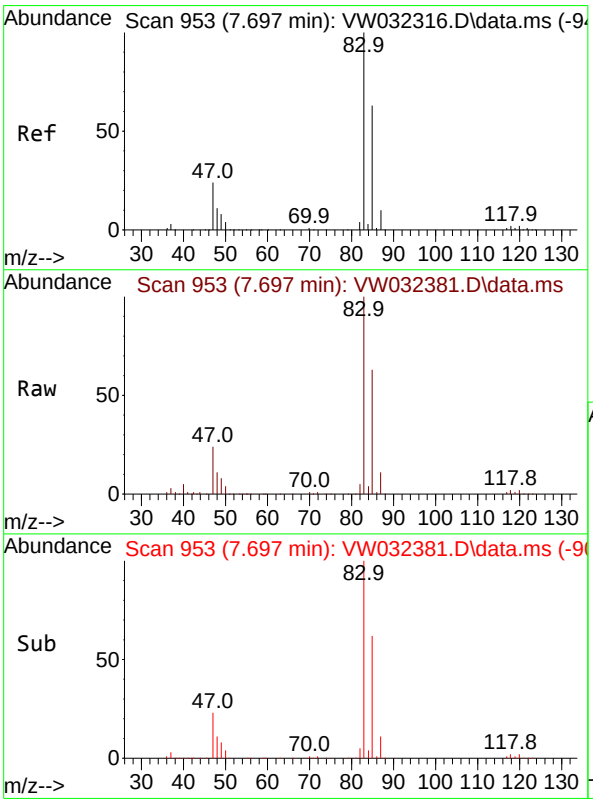
Ion	Ratio	Lower	Upper
42	100		
72	44.5	37.4	56.2
71	43.2	36.0	54.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

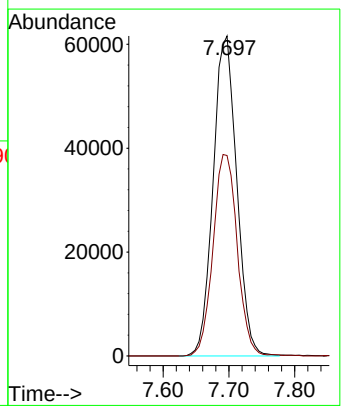
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

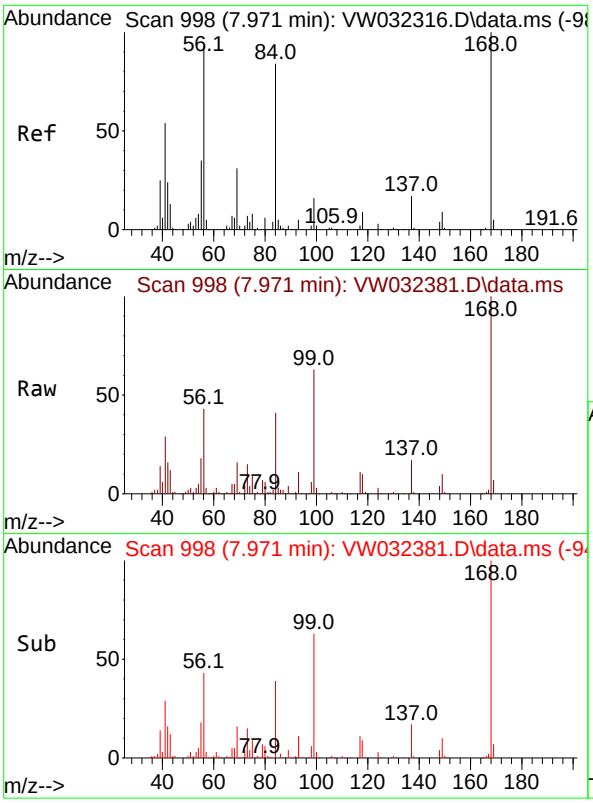


#30
Chloroform
Concen: 22.500 ug/l
RT: 7.697 min Scan# 953
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 83 Resp: 154033

Ion	Ratio	Lower	Upper
83	100		
85	62.6	51.2	76.8

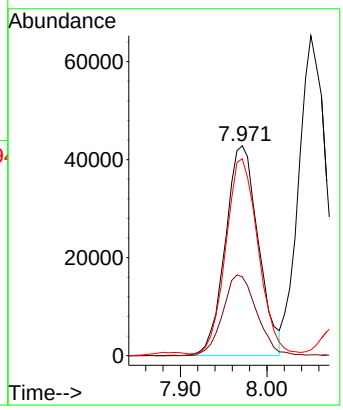




#31
Cyclohexane
Concen: 19.650 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 56 Resp: 11324

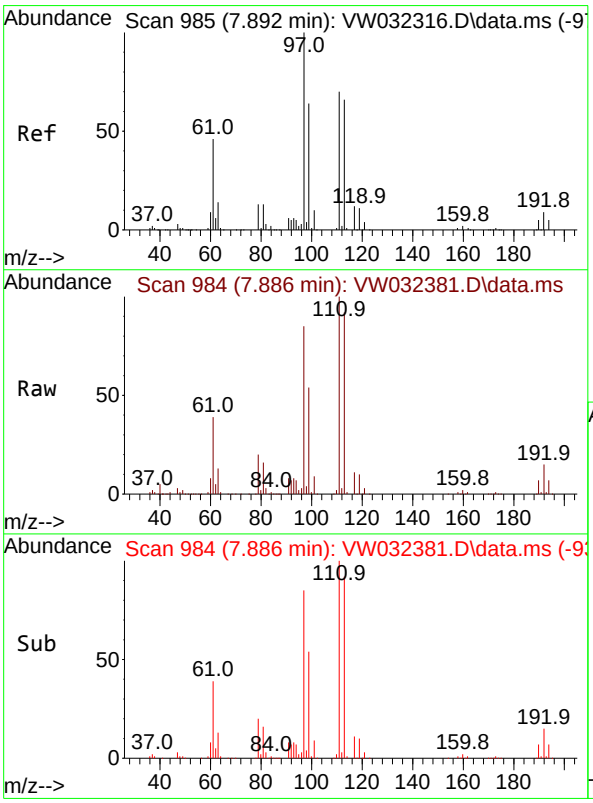
Ion	Ratio	Lower	Upper
56	100		
69	37.6	27.7	41.5
84	92.5	74.6	112.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

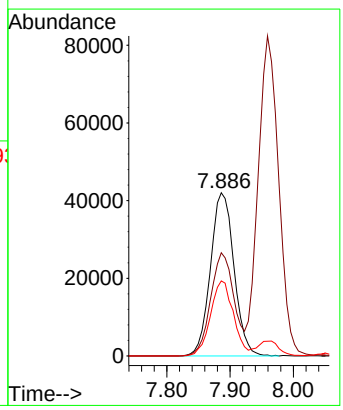
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

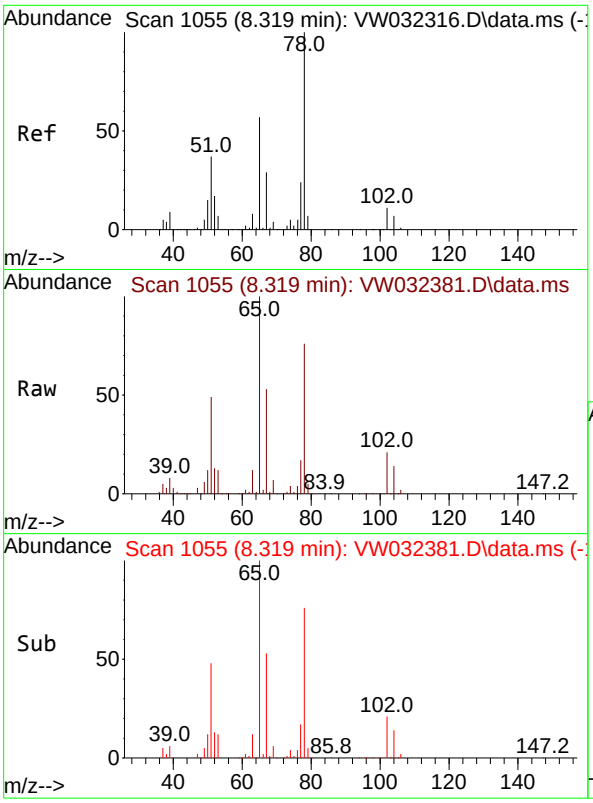


#32
1,1,1-Trichloroethane
Concen: 22.406 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 97 Resp: 108696

Ion	Ratio	Lower	Upper
97	100		
99	63.3	50.9	76.3
61	44.6	36.2	54.4





#33
1,2-Dichloroethane-d4
Concen: 53.141 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

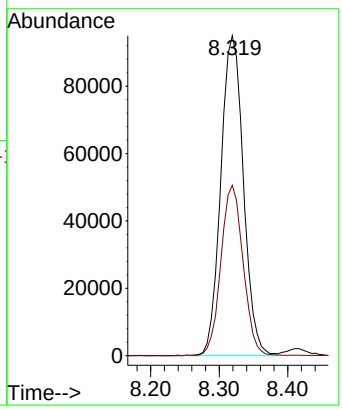
Tgt Ion: 65 Resp: 21753

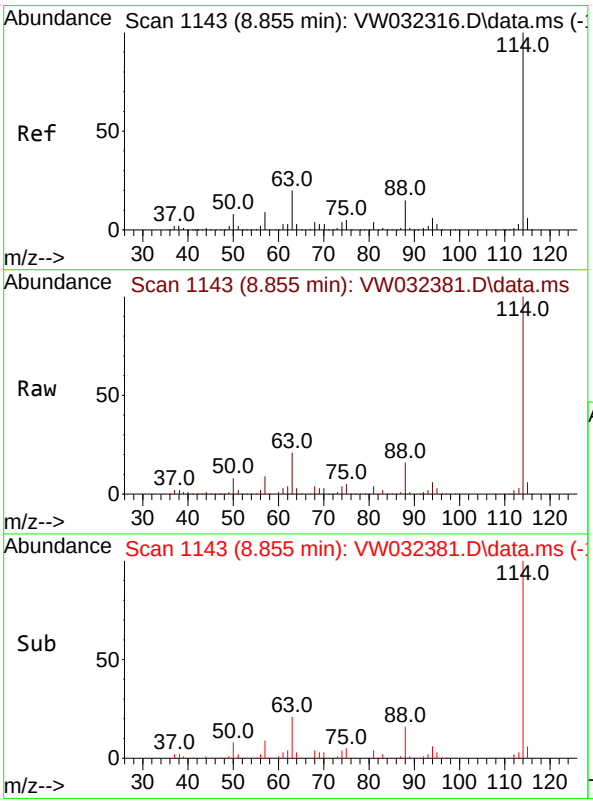
Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	99.6

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

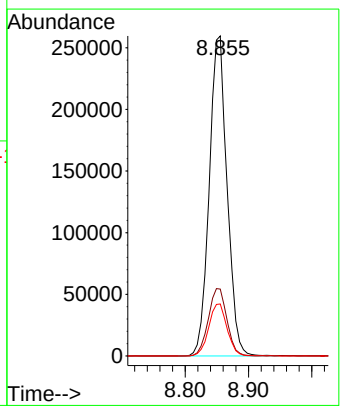


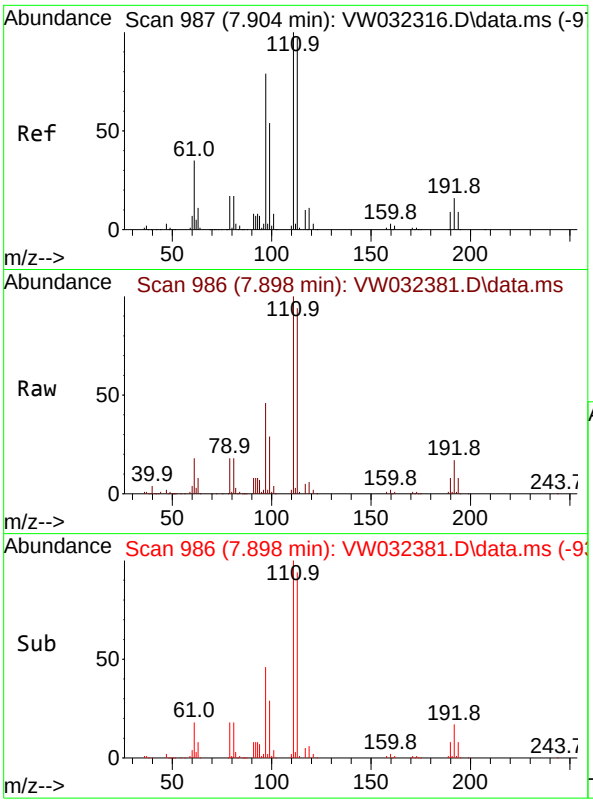


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:114 Resp: 507546

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	40.4
88	16.3	0.0	32.0

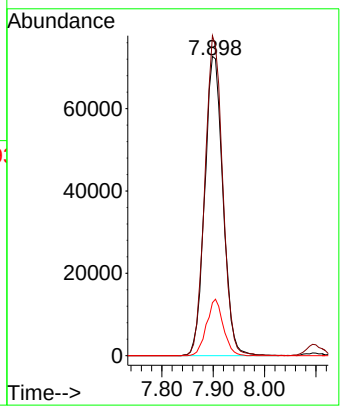




#35
Dibromofluoromethane
Concen: 54.477 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

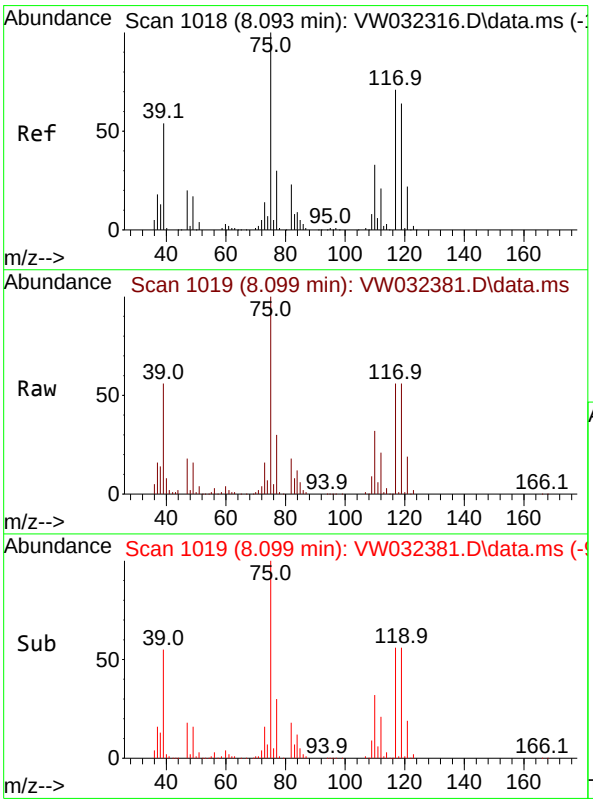
Tgt Ion:113 Resp: 17906

Ion	Ratio	Lower	Upper
113	100		
111	104.3	83.9	125.9
192	17.3	14.6	21.8



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

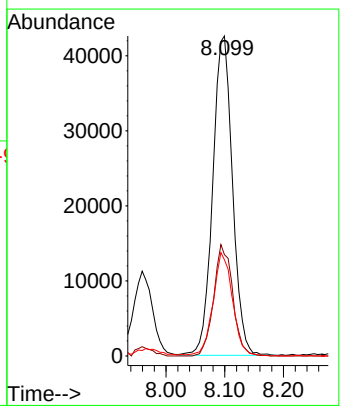
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

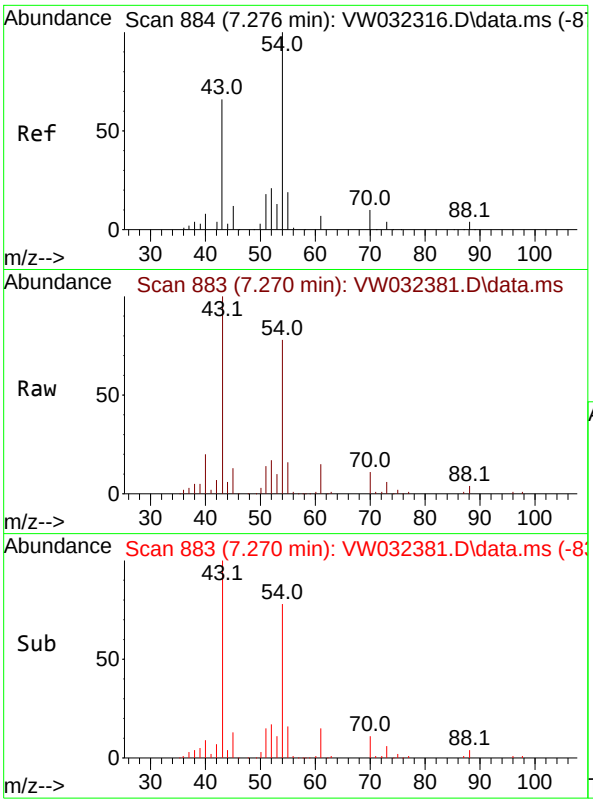


#36
1,1-Dichloropropene
Concen: 21.464 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 75 Resp: 99568

Ion	Ratio	Lower	Upper
75	100		
110	33.6	17.5	52.5
77	31.9	24.1	36.1

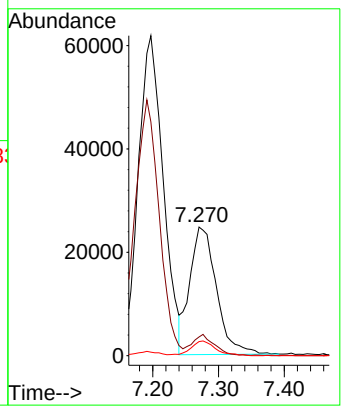




#37
Ethyl Acetate
Concen: 22.625 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 43 Resp: 6985

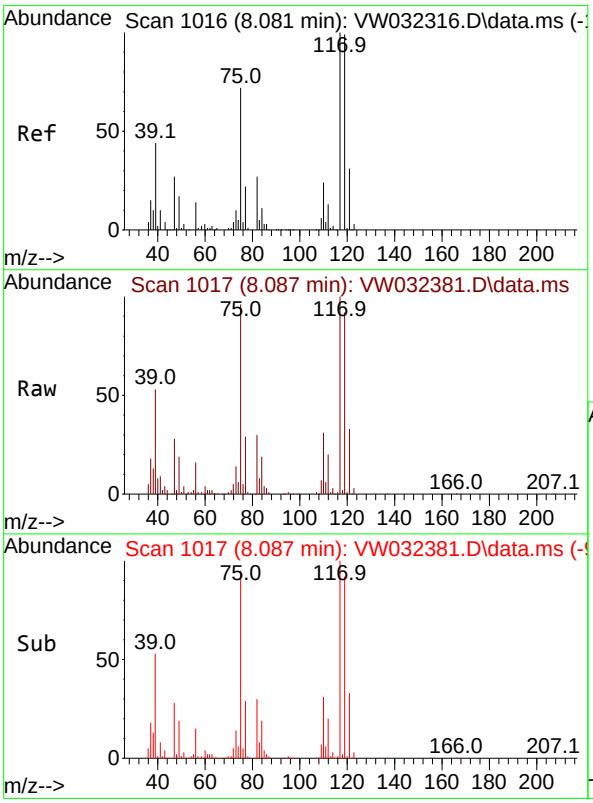
Ion	Ratio	Lower	Upper
43	100		
61	13.6	11.3	16.9
70	10.5	8.9	13.3



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

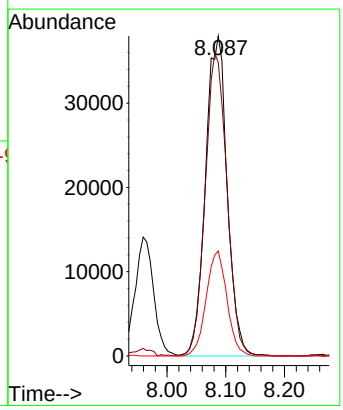
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

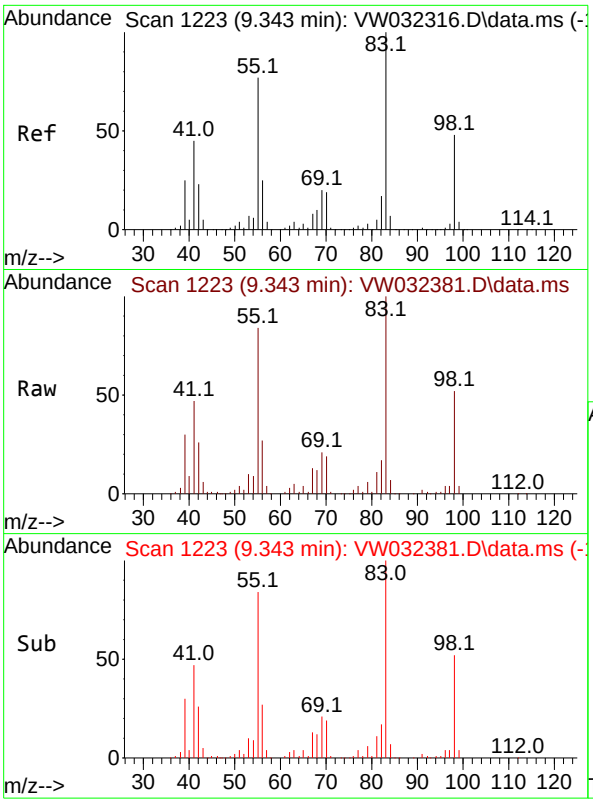


#38
Carbon Tetrachloride
Concen: 22.304 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:117 Resp: 97363

Ion	Ratio	Lower	Upper
117	100		
119	91.7	74.2	111.2
121	32.8	25.6	38.4

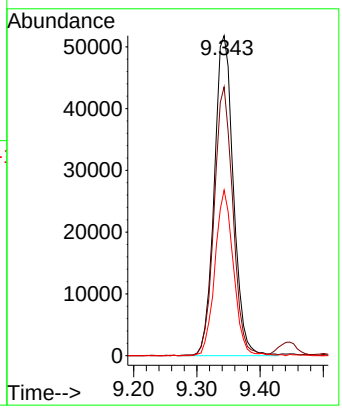




#39
Methylcyclohexane
Concen: 19.391 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 83 Resp: 10849

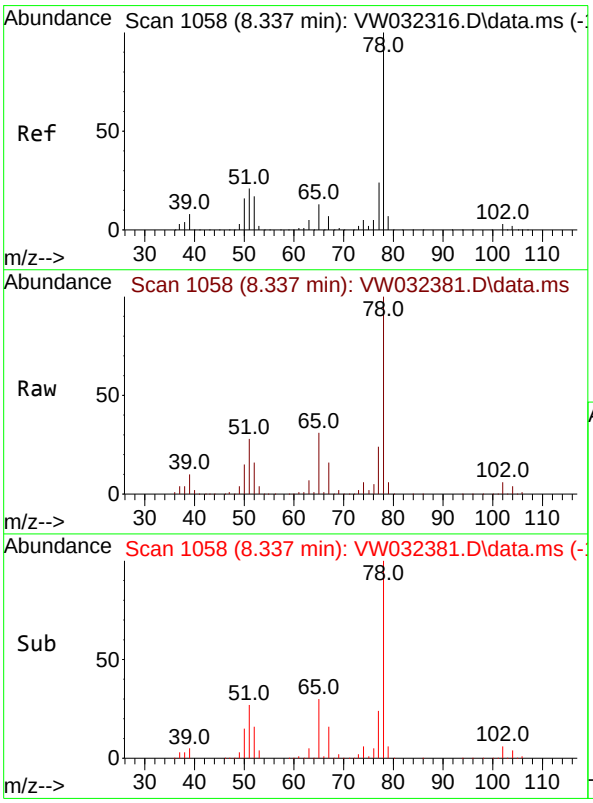
Ion	Ratio	Lower	Upper
83	100		
55	84.0	58.4	87.6
98	51.7	39.4	59.2



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

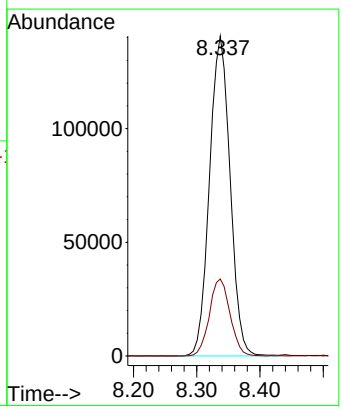
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

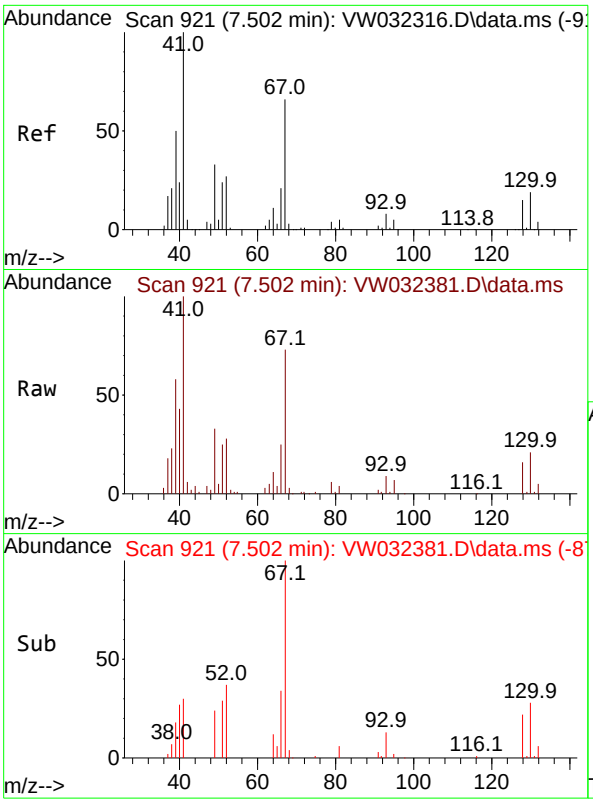


#40
Benzene
Concen: 21.845 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 78 Resp: 317626

Ion	Ratio	Lower	Upper
78	100		
77	24.1	20.7	31.1

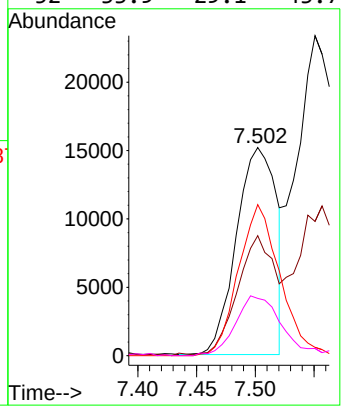




#41
Methacrylonitrile
Concen: 21.516 ug/l
RT: 7.502 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

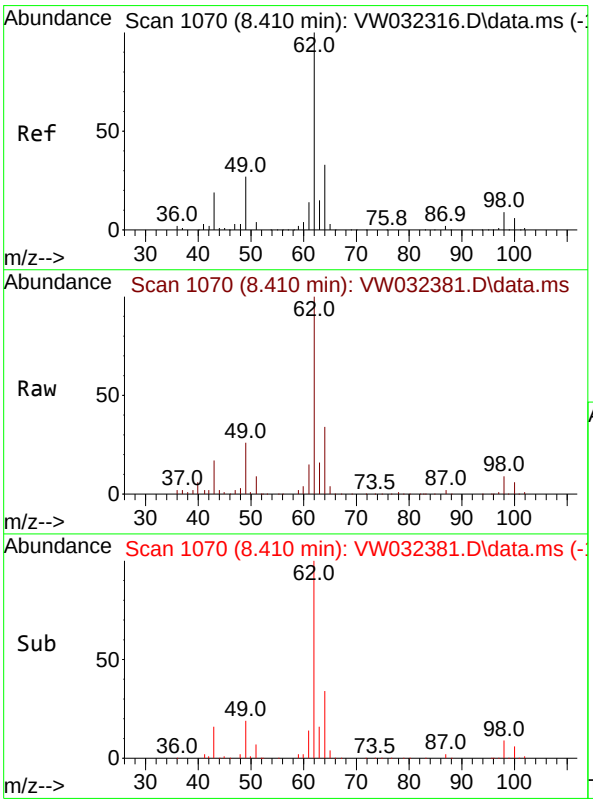
Tgt Ion: 41 Resp: 3580

Ion	Ratio	Lower	Upper
41	100		
39	53.3	50.9	76.3
67	76.7	65.6	98.4
52	33.9	29.1	43.7



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

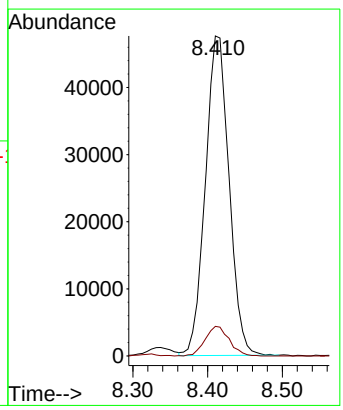
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

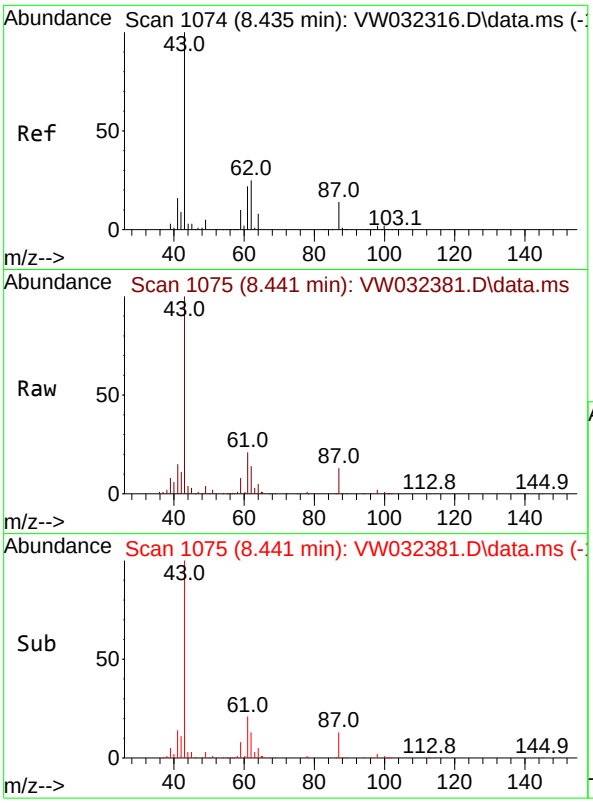


#42
1,2-Dichloroethane
Concen: 22.027 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 62 Resp: 104797

Ion	Ratio	Lower	Upper
62	100		
98	9.4	0.0	18.0

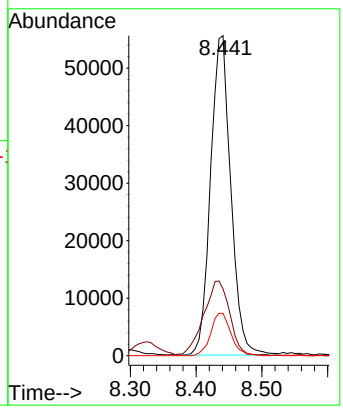




#43
Isopropyl Acetate
Concen: 21.760 ug/l
RT: 8.441 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 43 Resp: 11918

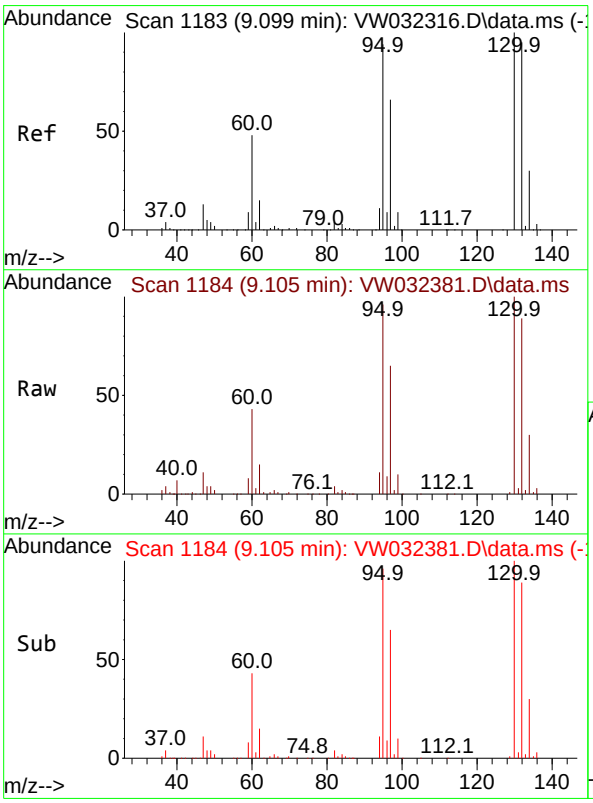
Ion	Ratio	Lower	Upper
43	100		
61	29.7	23.3	34.9
87	13.3	11.1	16.7



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

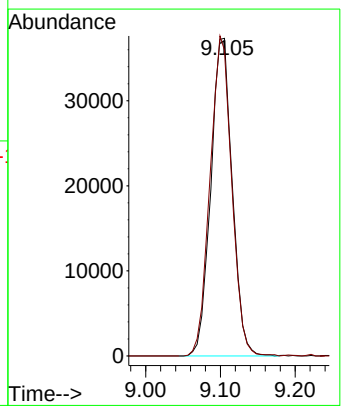
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

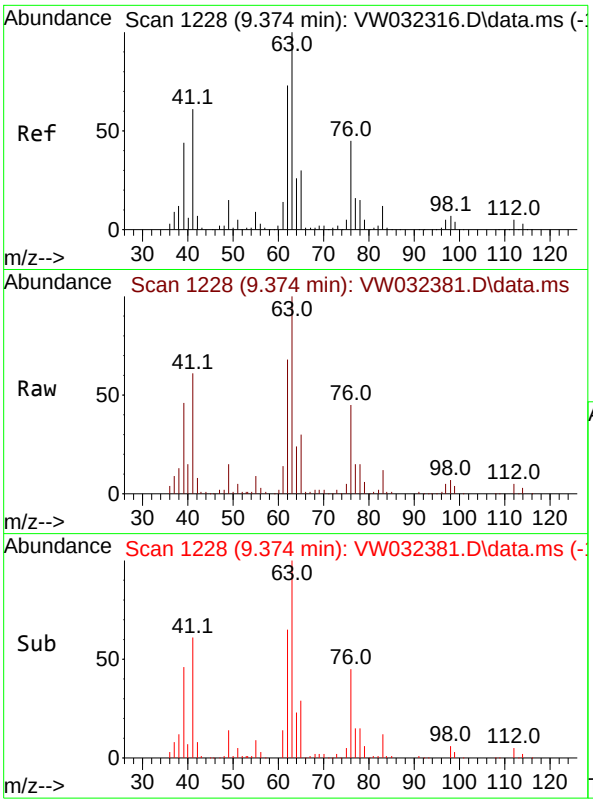


#44
Trichloroethene
Concen: 21.903 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:130 Resp: 74572

Ion	Ratio	Lower	Upper
130	100		
95	96.3	0.0	220.0

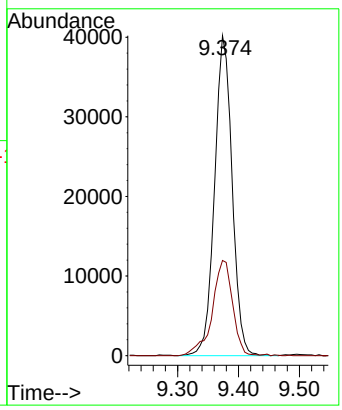




#45
1,2-Dichloropropane
Concen: 22.167 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 63 Resp: 8044

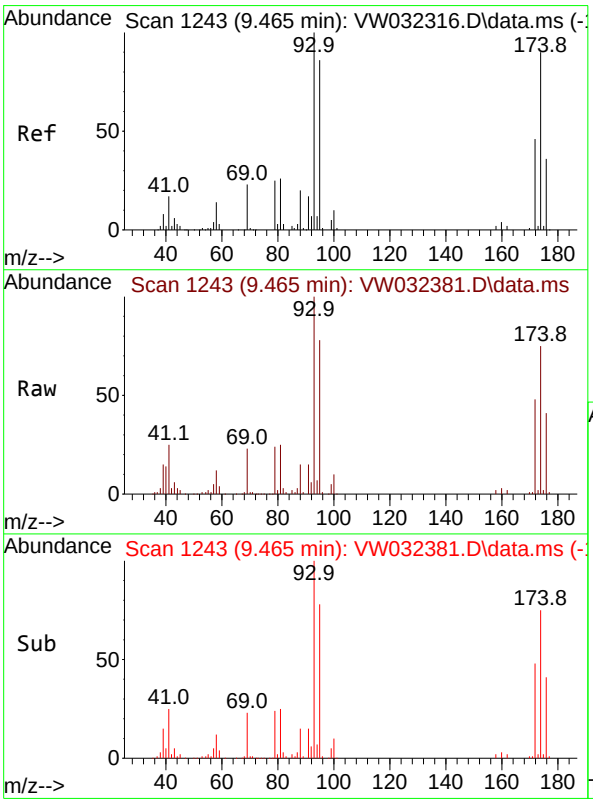
Ion	Ratio	Lower	Upper
63	100		
65	29.7	24.3	36.5



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

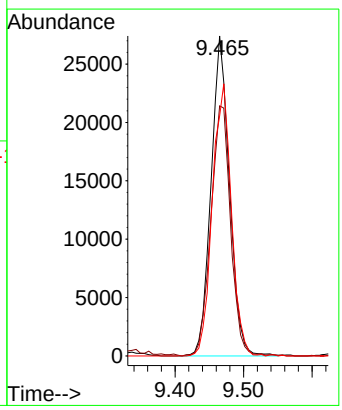
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

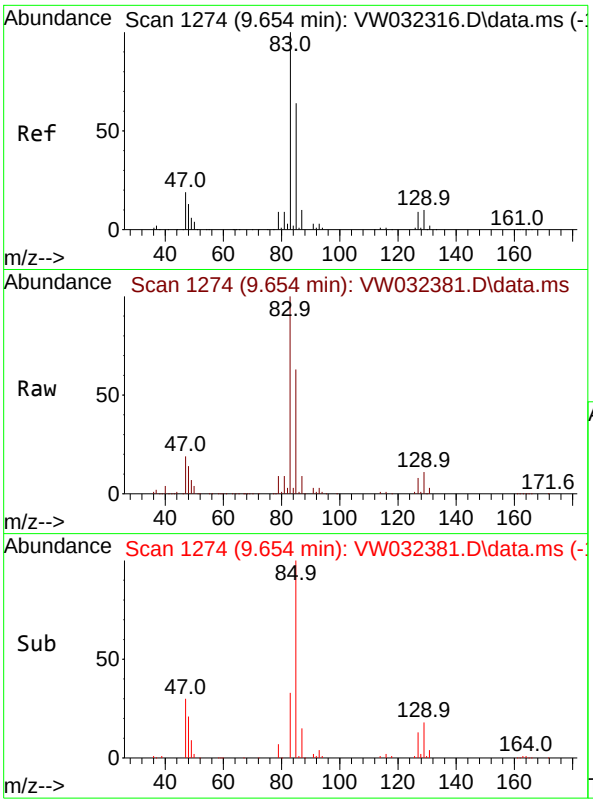


#46
Dibromomethane
Concen: 22.938 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 93 Resp: 51190

Ion	Ratio	Lower	Upper
93	100		
95	83.5	67.4	101.2
174	87.5	75.7	113.5

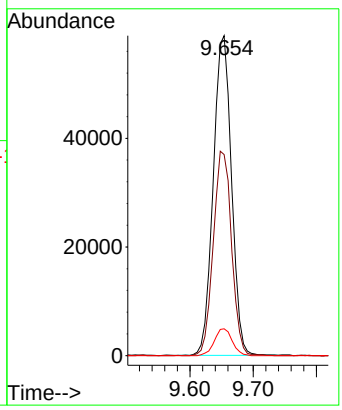




#47
Bromodichloromethane
Concen: 23.021 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

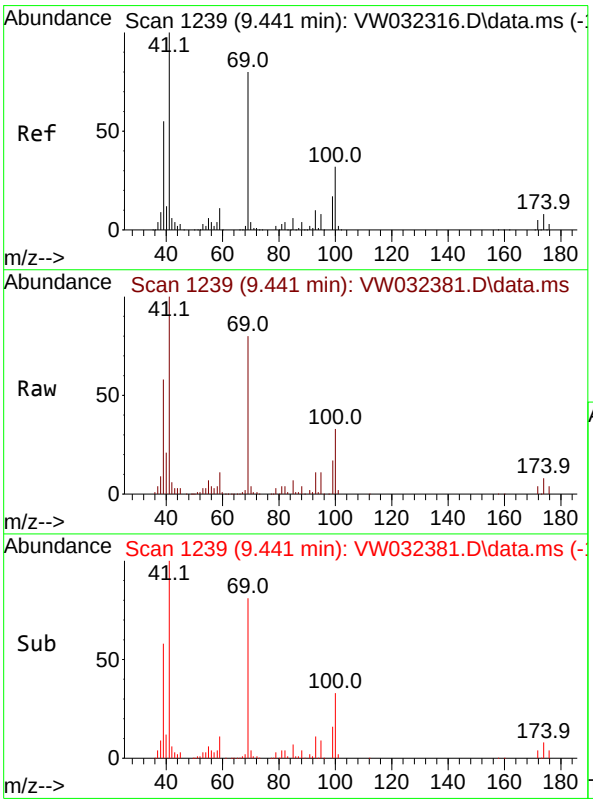
Tgt Ion: 83 Resp: 11750

Ion	Ratio	Lower	Upper
83	100		
85	62.9	48.7	73.1
127	8.4	6.4	9.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

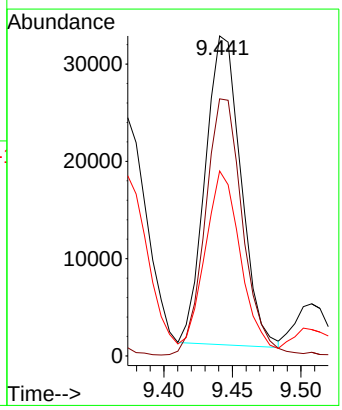
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

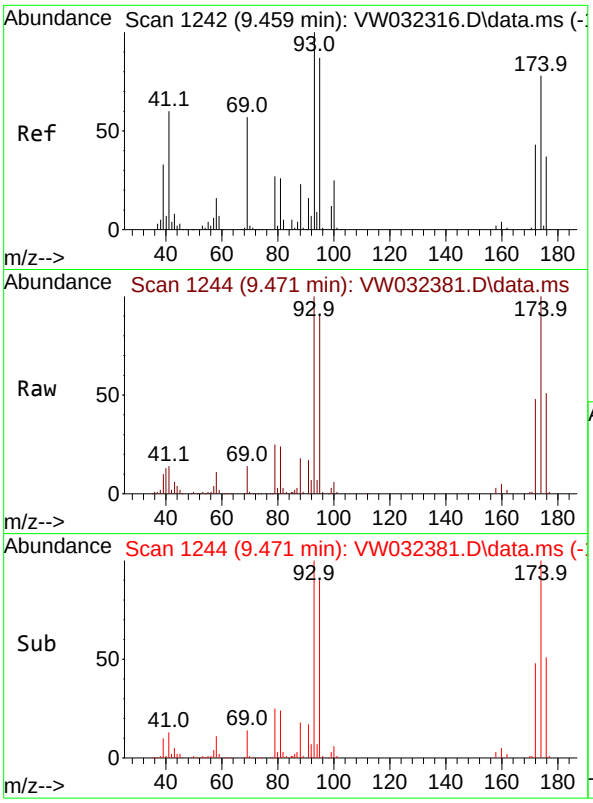


#48
Methyl methacrylate
Concen: 21.537 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 41 Resp: 57356

Ion	Ratio	Lower	Upper
41	100		
69	87.4	71.5	107.3
39	60.6	55.9	83.9

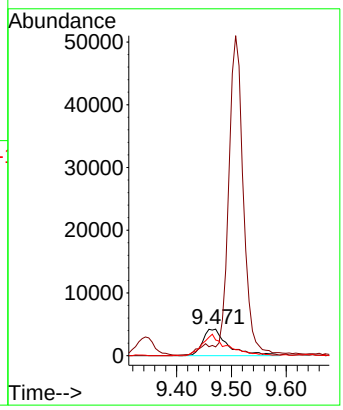




#49
1,4-Dioxane
Concen: 445.427 ug/l
RT: 9.471 min Scan# 1
Delta R.T. 0.012 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 88 Resp: 1358

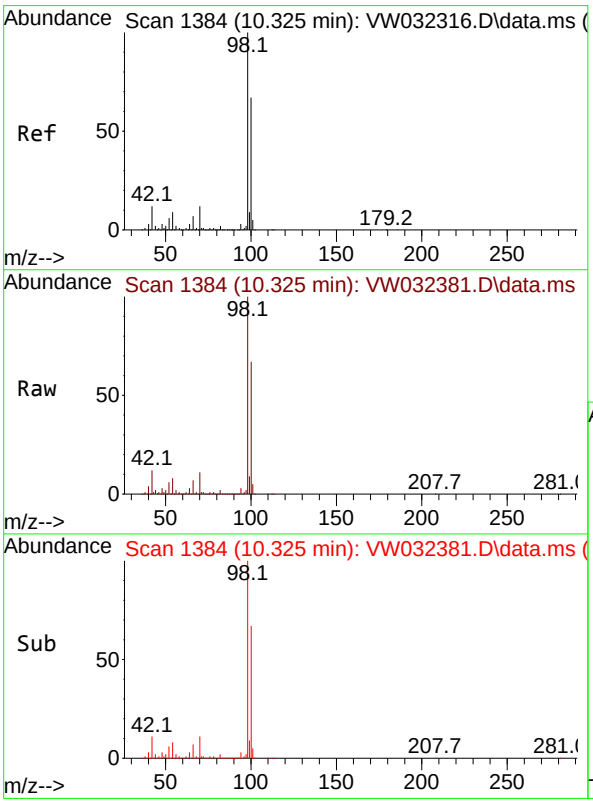
Ion	Ratio	Lower	Upper
88	100		
43	0.0	18.0	27.0#
58	79.3	55.4	83.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

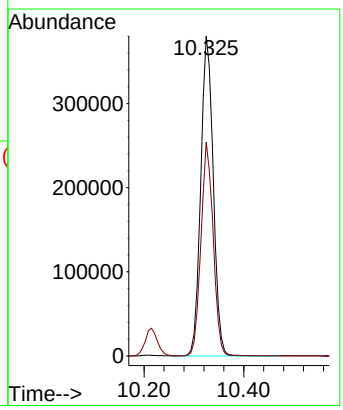
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

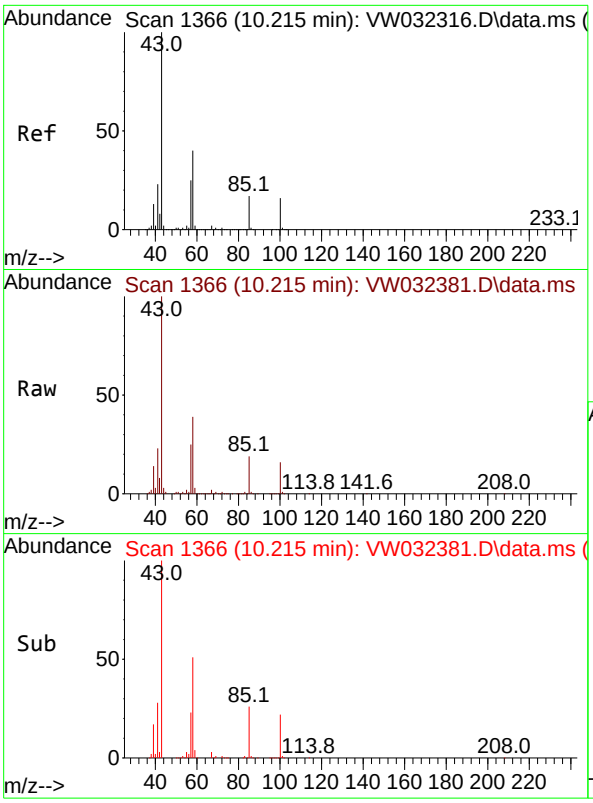


#50
Toluene-d8
Concen: 54.542 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 98 Resp: 661666

Ion	Ratio	Lower	Upper
98	100		
100	65.1	51.4	77.2

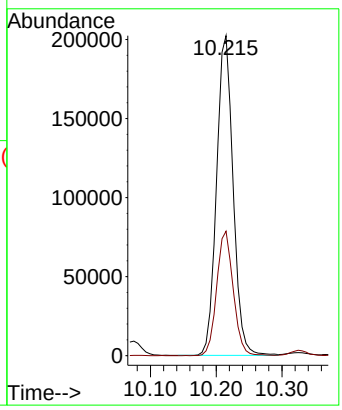




#51
4-Methyl-2-Pentanone
Concen: 111.810 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 43 Resp: 35472

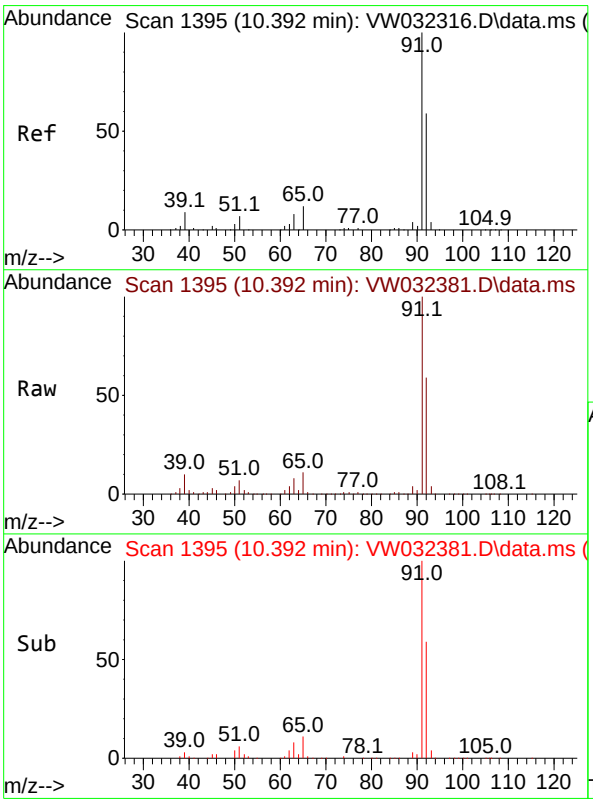
Ion	Ratio	Lower	Upper
43	100		
58	38.9	32.0	48.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

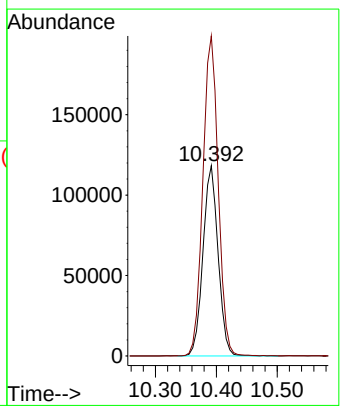
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

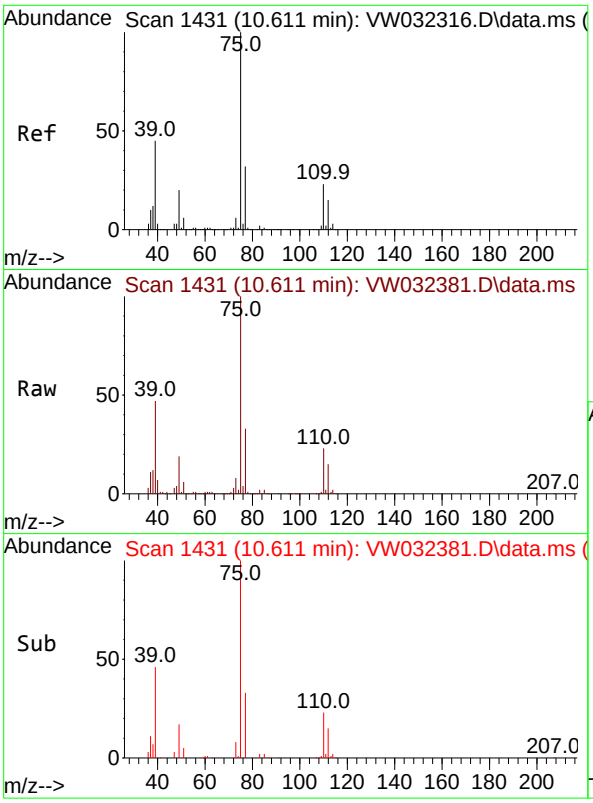


#52
Toluene
Concen: 22.492 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 92 Resp: 203658

Ion	Ratio	Lower	Upper
92	100		
91	170.9	137.5	206.3

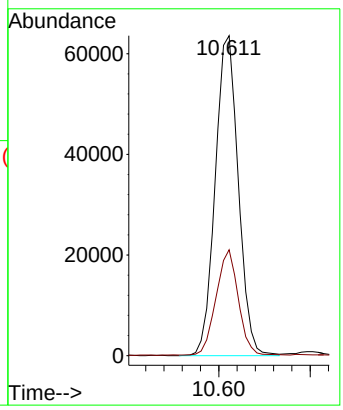




#53
t-1,3-Dichloropropene
Concen: 22.555 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 75 Resp: 11169

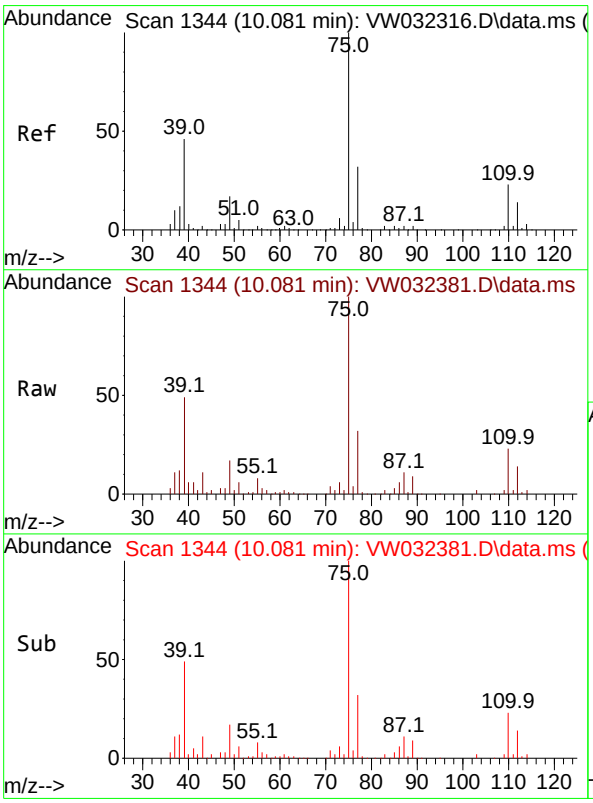
Ion	Ratio	Lower	Upper
75	100		
77	32.9	25.6	38.4



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

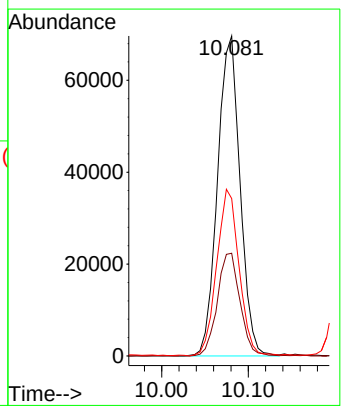
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

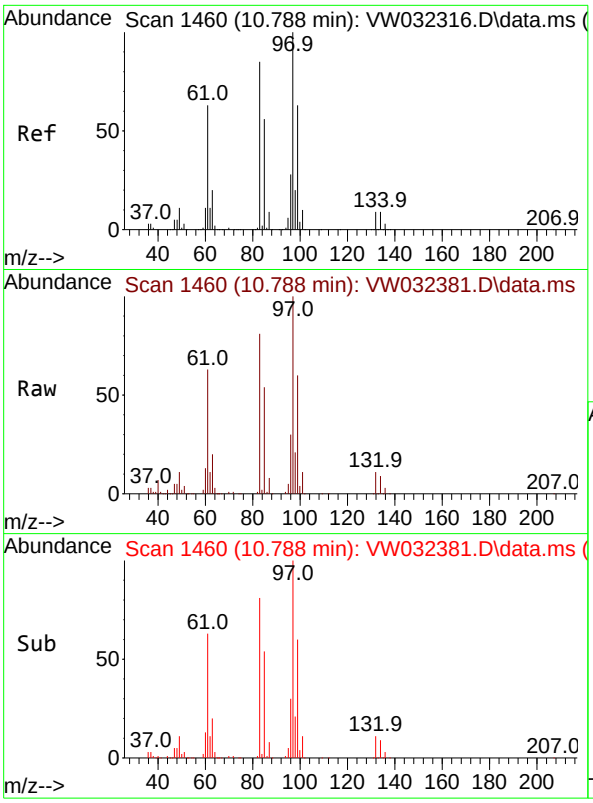


#54
cis-1,3-Dichloropropene
Concen: 22.056 ug/l
RT: 10.081 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 75 Resp: 125815

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.1	37.7
39	49.0	43.2	64.8

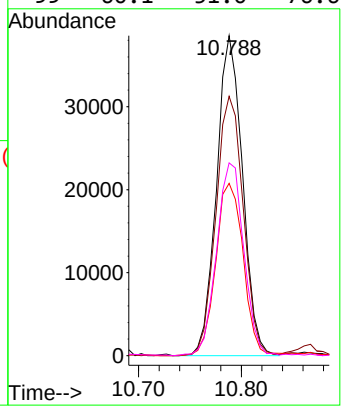




#55
1,1,2-Trichloroethane
Concen: 22.638 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 97 Resp: 6752

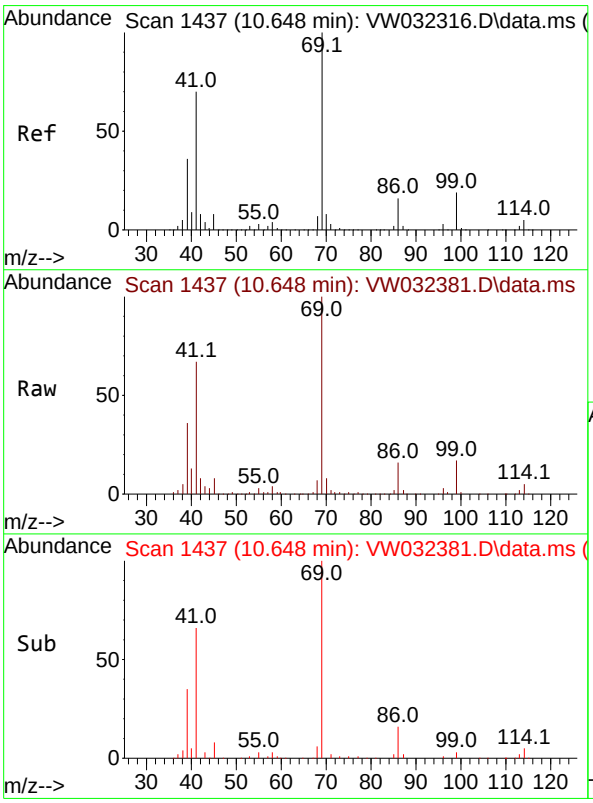
Ion	Ratio	Lower	Upper
97	100		
83	81.1	71.0	106.6
85	53.7	42.8	64.2
99	60.1	51.0	76.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

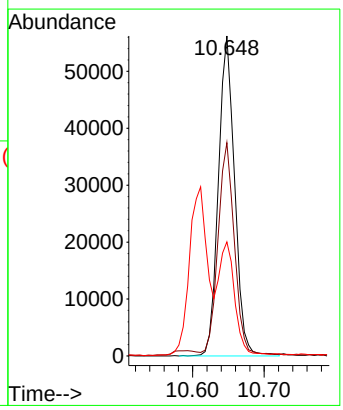
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

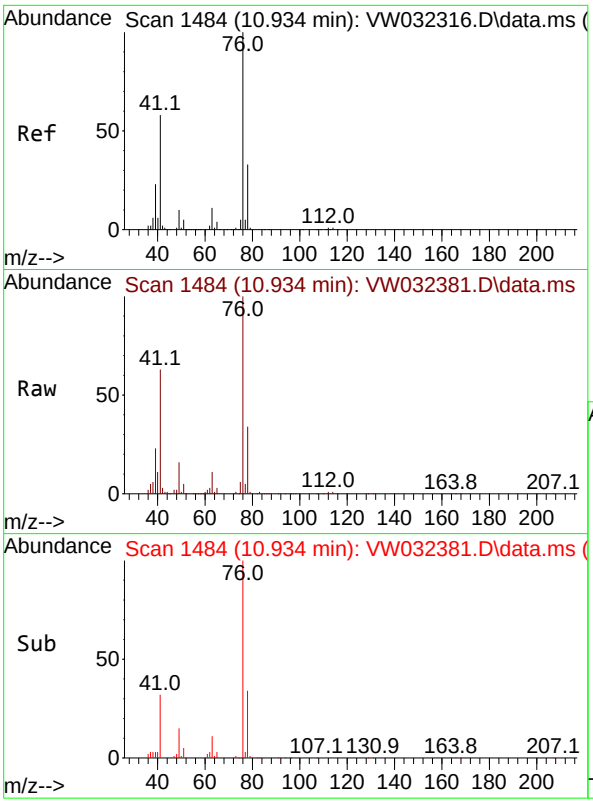


#56
Ethyl methacrylate
Concen: 21.270 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 69 Resp: 88799

Ion	Ratio	Lower	Upper
69	100		
41	66.8	53.2	79.8
39	34.0	32.9	49.3





#57
1,3-Dichloropropane
Concen: 22.206 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

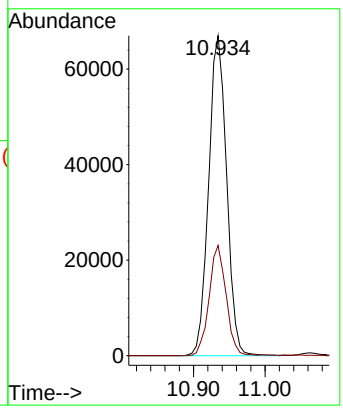
Tgt Ion: 76 Resp: 11698

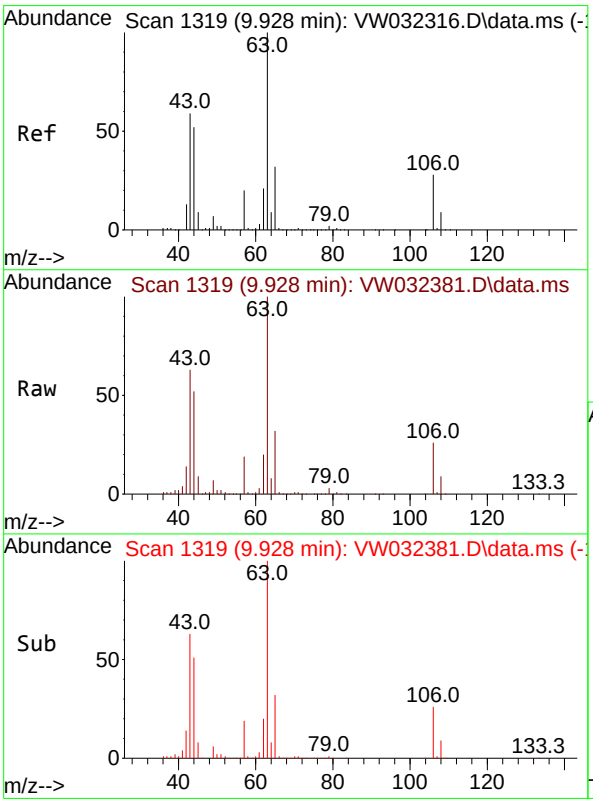
Ion	Ratio	Lower	Upper
76	100		
78	32.8	26.2	39.4

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

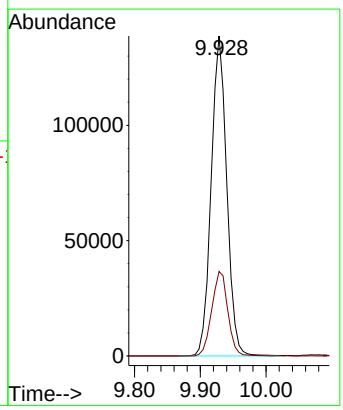


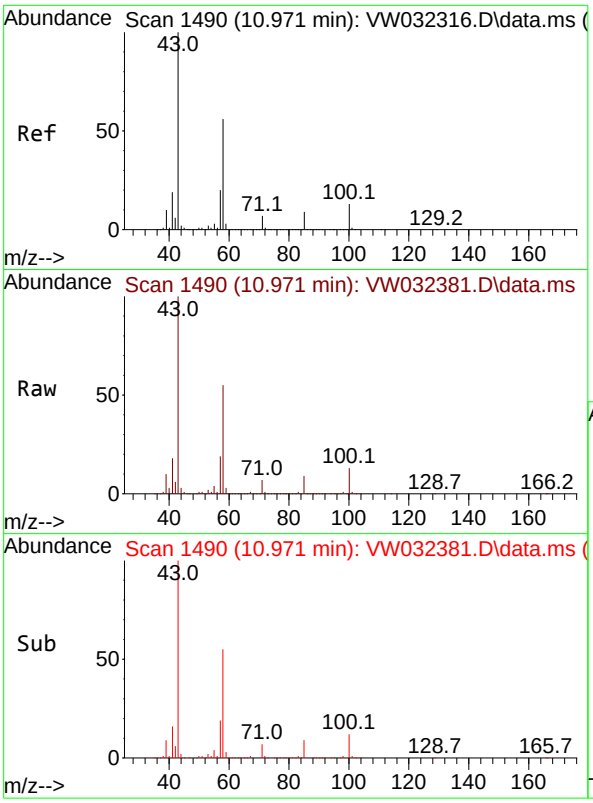


#58
2-Chloroethyl Vinyl ether
Concen: 102.786 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 63 Resp: 228377

Ion	Ratio	Lower	Upper
63	100		
106	27.3	24.3	36.5





#59
2-Hexanone
Concen: 114.515 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

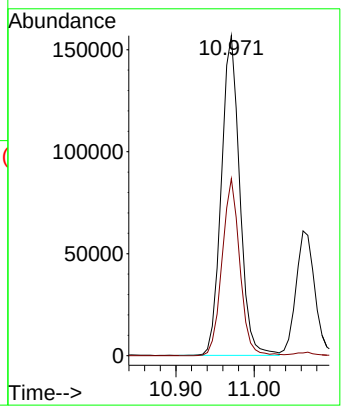
Tgt Ion: 43 Resp: 25623

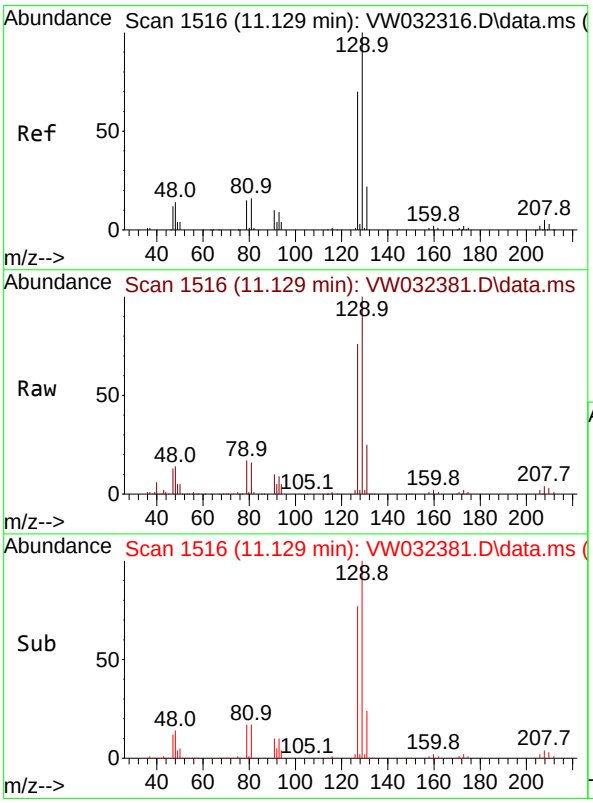
Ion	Ratio	Lower	Upper
43	100		
58	53.3	27.5	82.4

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

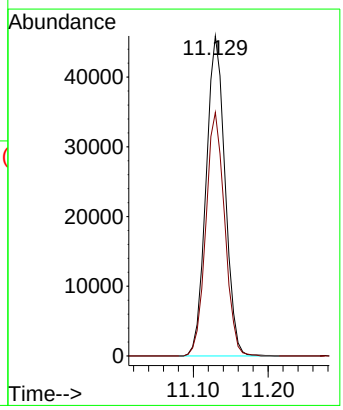


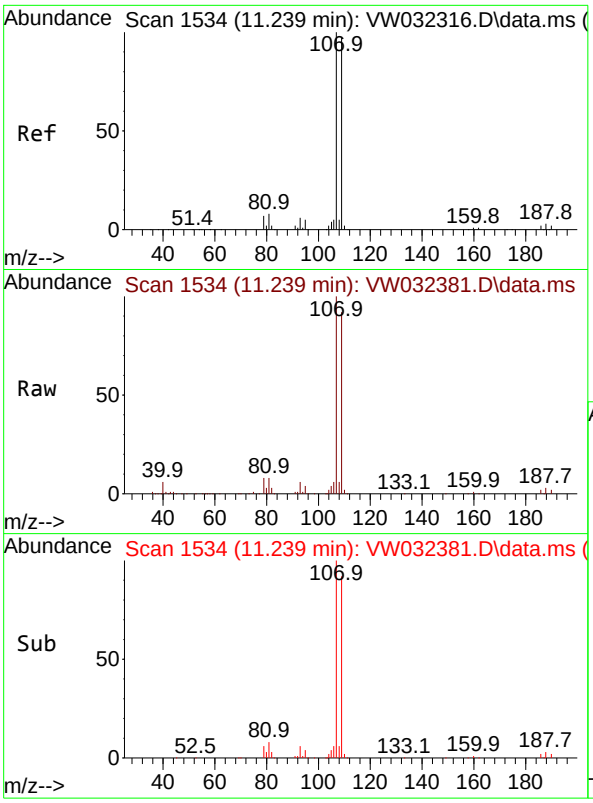


#60
Dibromochloromethane
Concen: 23.873 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:129 Resp: 80852

Ion	Ratio	Lower	Upper
129	100		
127	75.7	38.1	114.5

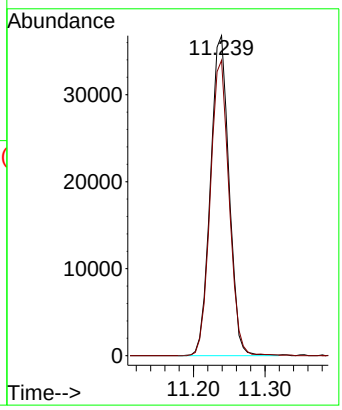




#61
1,2-Dibromoethane
Concen: 22.808 ug/l
RT: 11.239 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:107 Resp: 6633

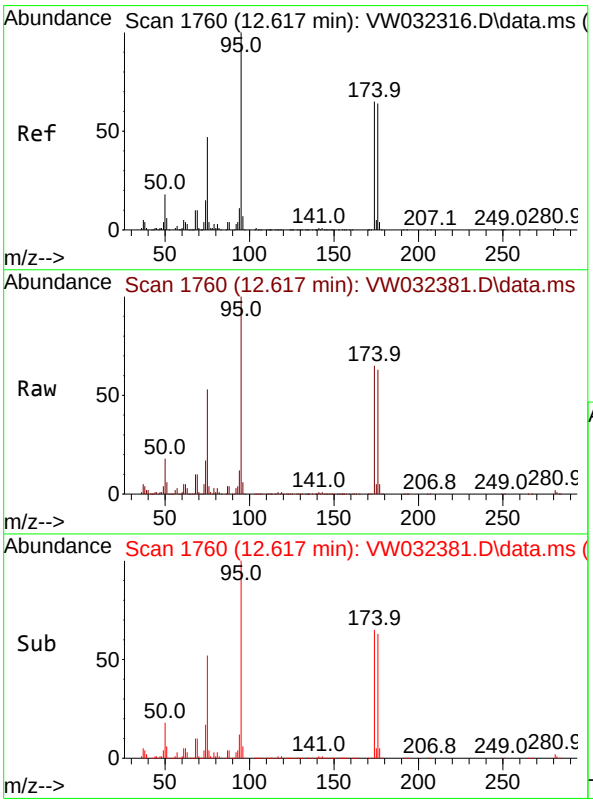
Ion	Ratio	Lower	Upper
107	100		
109	93.3	74.5	111.7



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

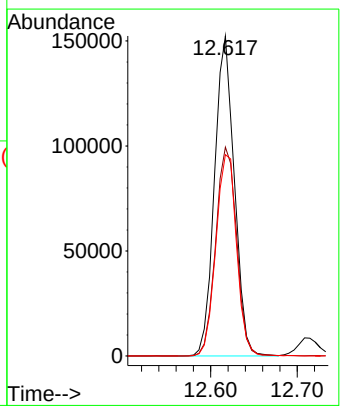
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

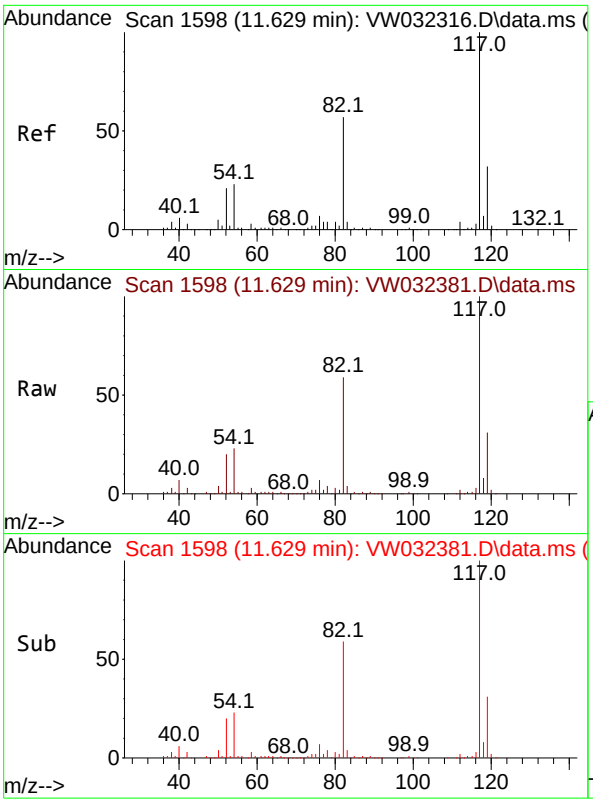


#62
4-Bromofluorobenzene
Concen: 52.844 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 95 Resp: 242303

Ion	Ratio	Lower	Upper
95	100		
174	68.6	0.0	145.6
176	65.9	0.0	140.8

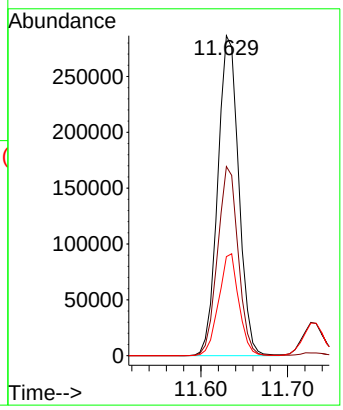




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:117 Resp: 48121

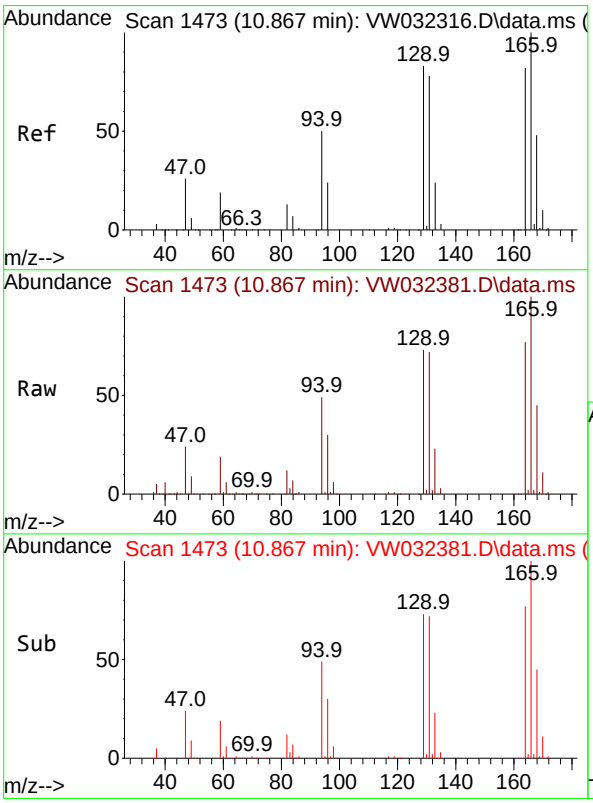
Ion	Ratio	Lower	Upper
117	100		
82	59.1	42.7	64.1
119	31.0	25.2	37.8



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

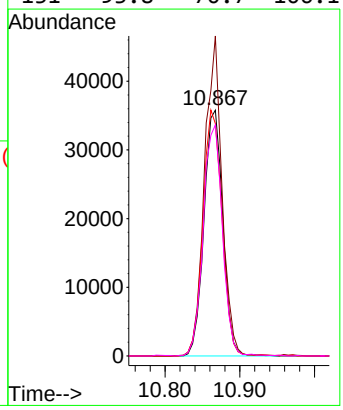
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

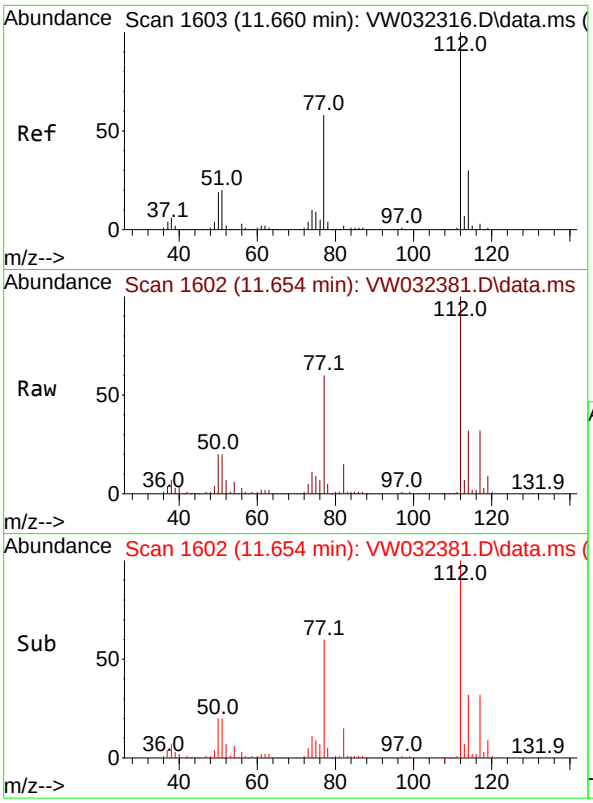


#64
Tetrachloroethene
Concen: 21.732 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:164 Resp: 62577

Ion	Ratio	Lower	Upper
164	100		
166	130.2	97.5	146.3
129	94.5	71.2	106.8
131	93.8	70.7	106.1

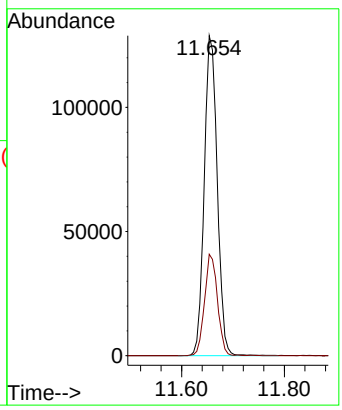




#65
Chlorobenzene
Concen: 21.329 ug/l
RT: 11.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:112 Resp: 22582

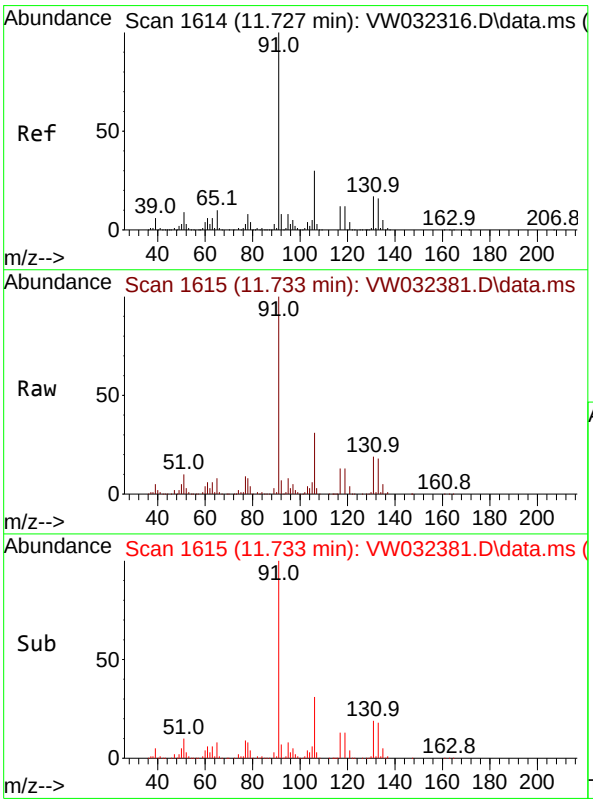
Ion	Ratio	Lower	Upper
112	100		
114	31.7	26.0	39.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

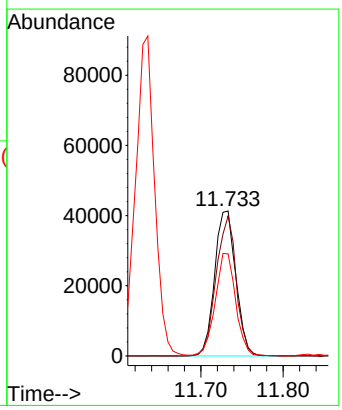
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

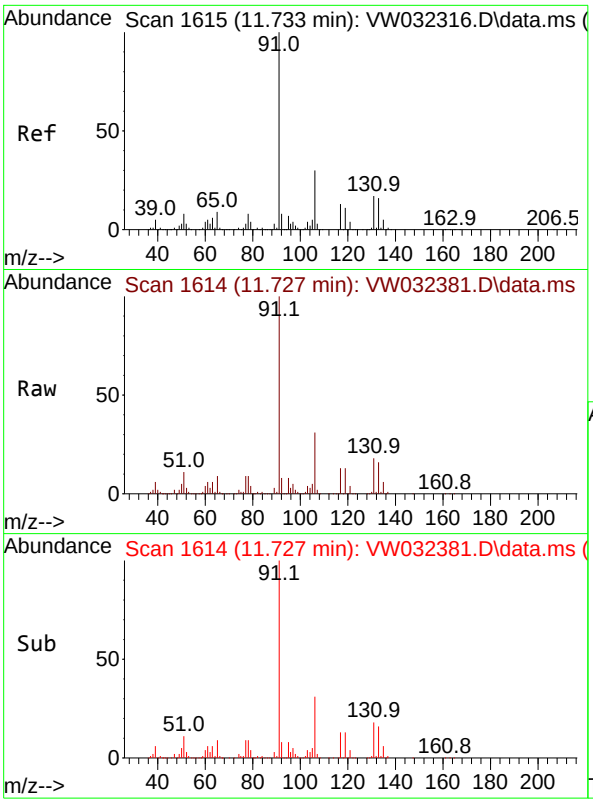


#66
1,1,1,2-Tetrachloroethane
Concen: 22.457 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:131 Resp: 74057

Ion	Ratio	Lower	Upper
131	100		
133	91.7	47.7	143.1
119	68.4	32.8	98.3





#67
Ethyl Benzene
Concen: 20.647 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

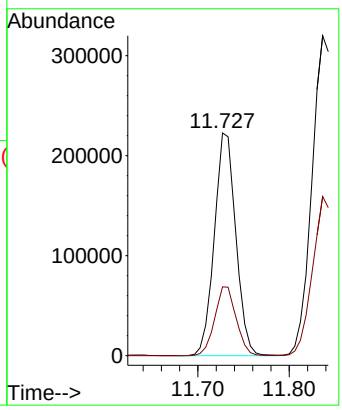
Tgt Ion: 91 Resp: 36439

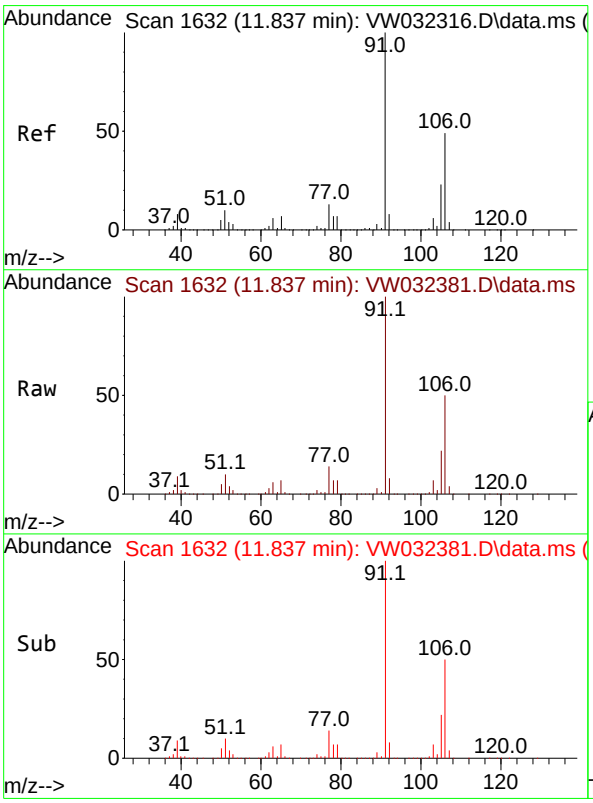
Ion	Ratio	Lower	Upper
91	100		
106	30.9	25.3	37.9

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

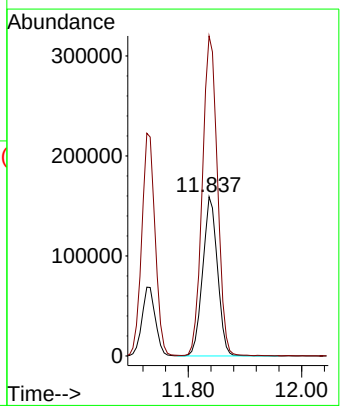


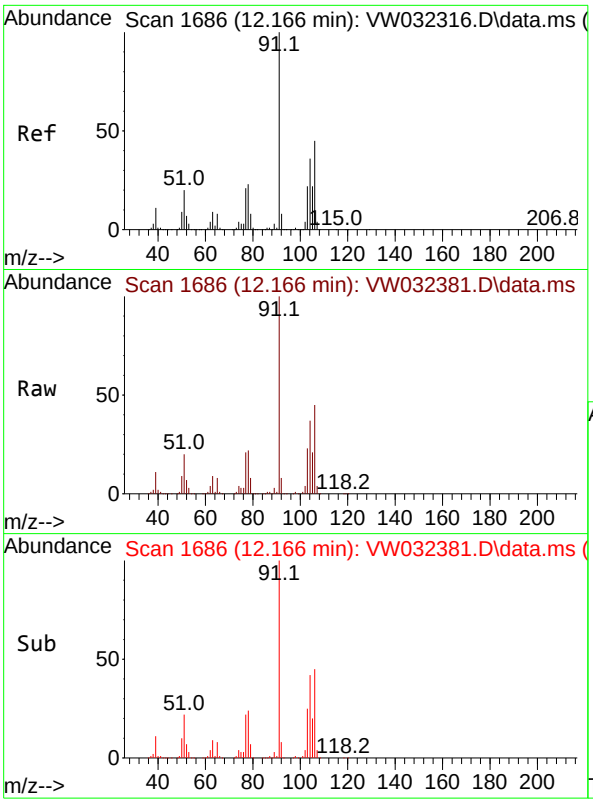


#68
m/p-Xylenes
Concen: 42.215 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:106 Resp: 287294

Ion	Ratio	Lower	Upper
106	100		
91	205.6	164.2	246.2





#69
o-Xylene
Concen: 20.691 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

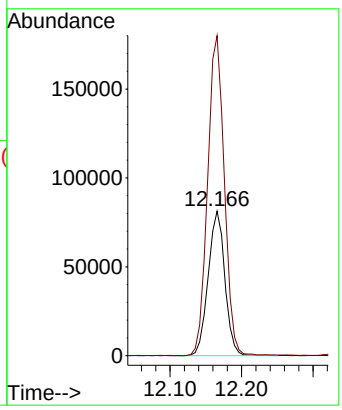
Tgt Ion:106 Resp: 13168

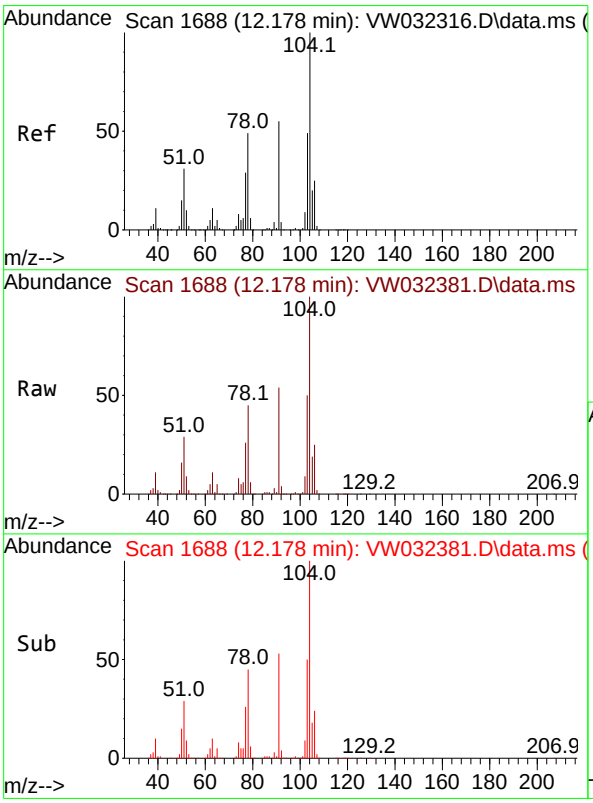
Ion	Ratio	Lower	Upper
106	100		
91	221.9	108.7	326.3

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

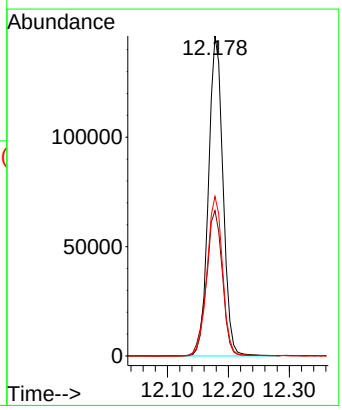


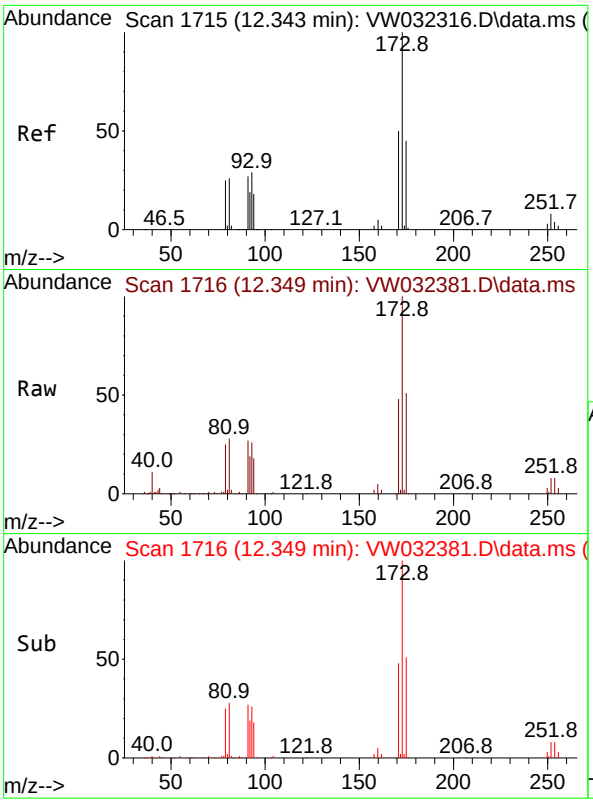


#70
Styrene
Concen: 21.782 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:104 Resp: 242035

Ion	Ratio	Lower	Upper
104	100		
78	50.2	41.6	62.4
103	53.3	44.8	67.2

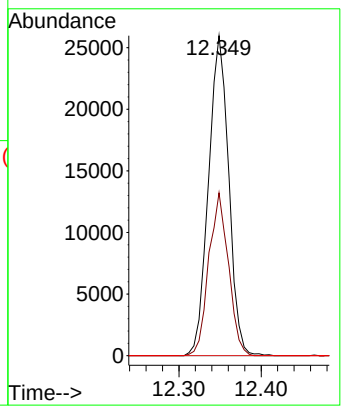




#71
Bromoform
Concen: 23.454 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:173 Resp: 4433

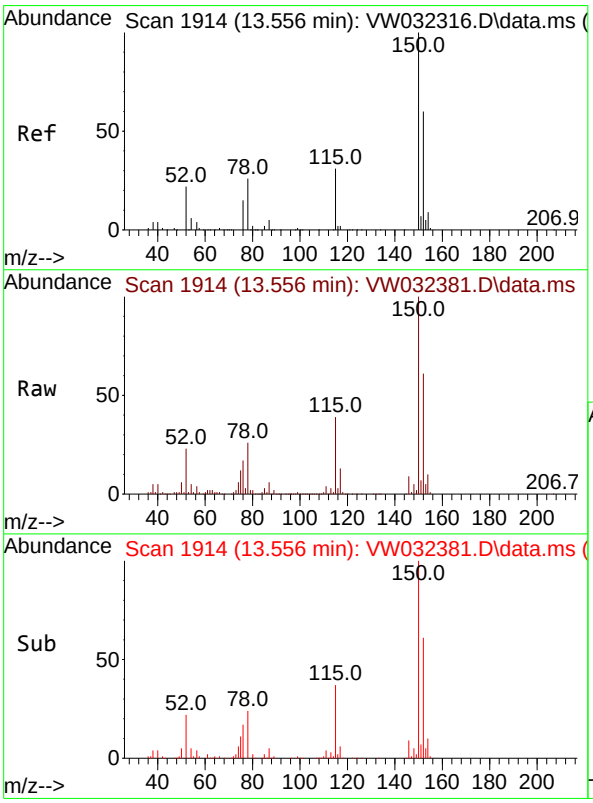
Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.9	74.7
254	0.0	0.2	0.2



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

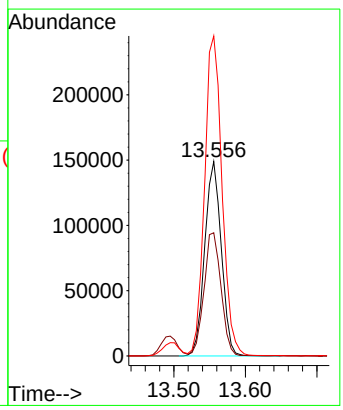
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

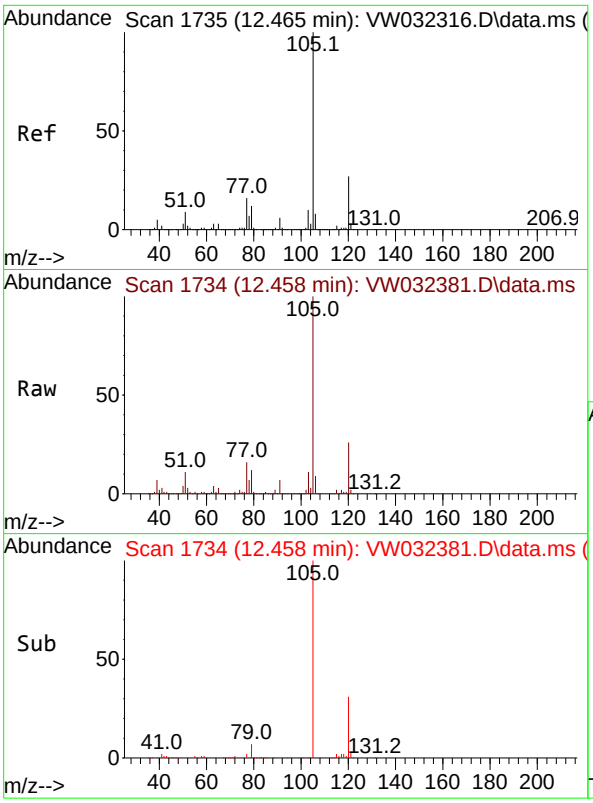


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:152 Resp: 239754

Ion	Ratio	Lower	Upper
152	100		
115	65.0	31.8	95.4
150	173.0	0.0	343.0

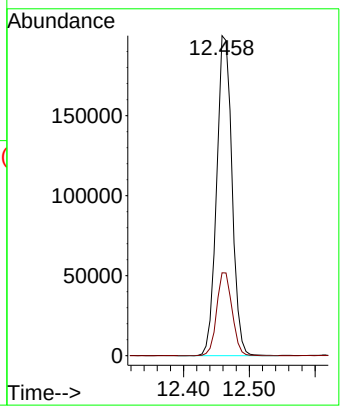




#73
Isopropylbenzene
Concen: 19.804 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:105 Resp: 32484

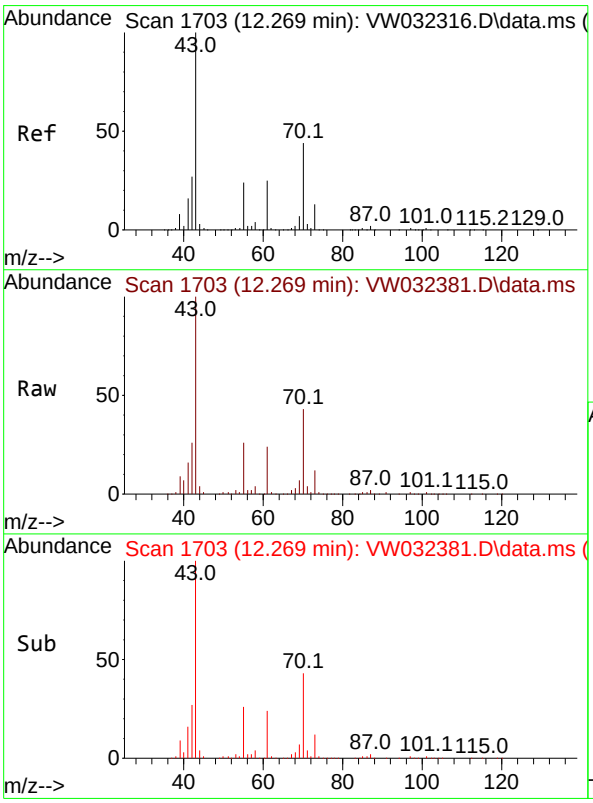
Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.0	38.9



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

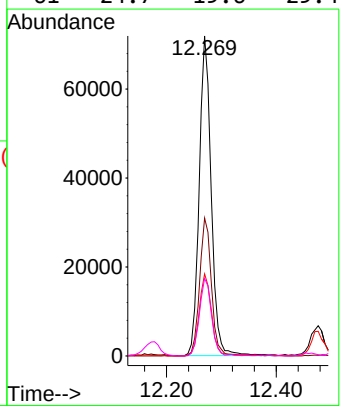
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

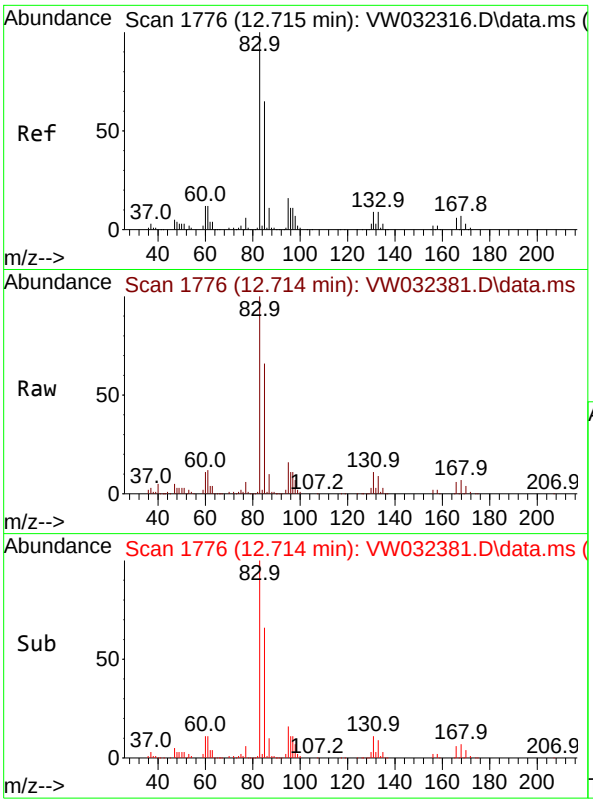


#74
N-amyl acetate
Concen: 20.882 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 43 Resp: 109272

Ion	Ratio	Lower	Upper
43	100		
70	42.7	35.3	52.9
55	26.5	19.9	29.9
61	24.7	19.6	29.4

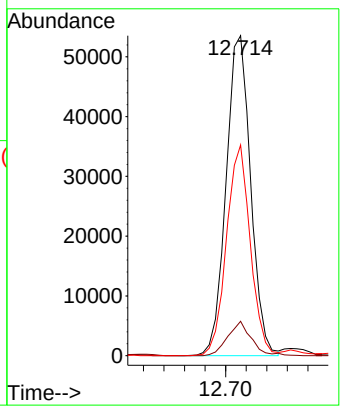




#75
1,1,2,2-Tetrachloroethane
Concen: 21.817 ug/l
RT: 12.714 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 83 Resp: 8885

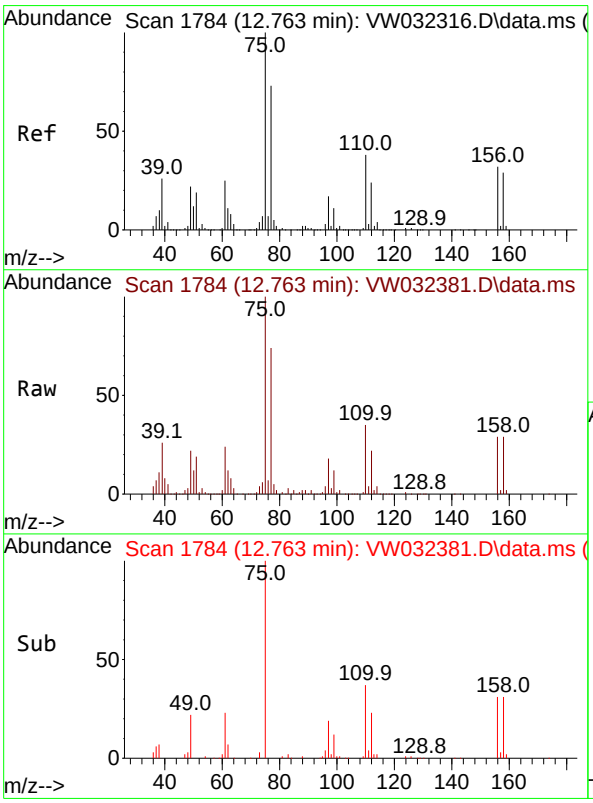
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.1	15.4
85	63.9	32.2	96.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

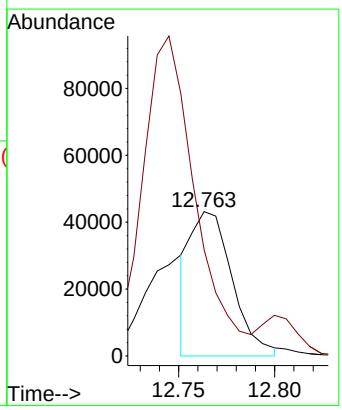
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

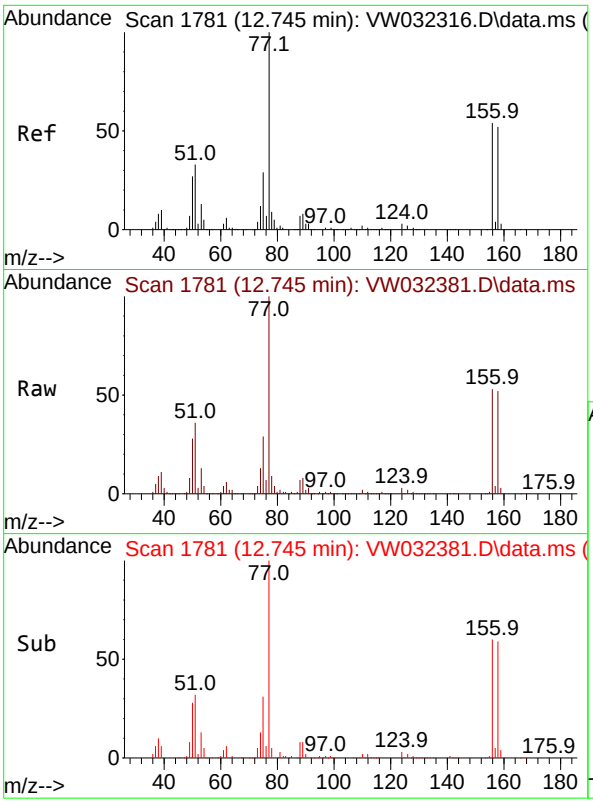


#76
1,2,3-Trichloropropane
Concen: 20.661 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 75 Resp: 65188

Ion	Ratio	Lower	Upper
75	100		
77	280.8	141.7	425.1

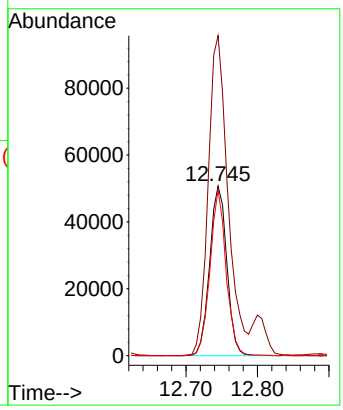




#77
Bromobenzene
Concen: 21.370 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:156 Resp: 8449

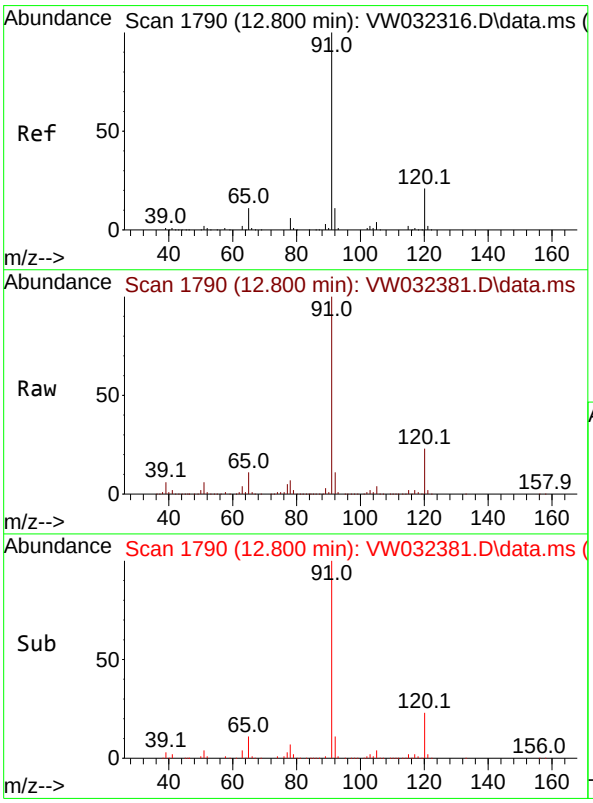
Ion	Ratio	Lower	Upper
156	100		
77	216.6	98.6	295.7
158	92.0	48.4	145.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

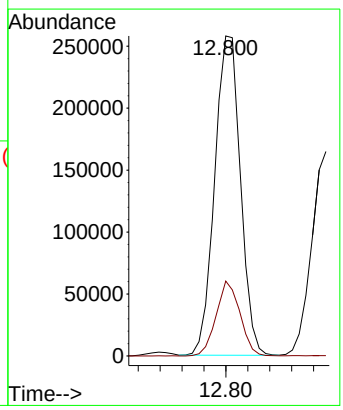
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

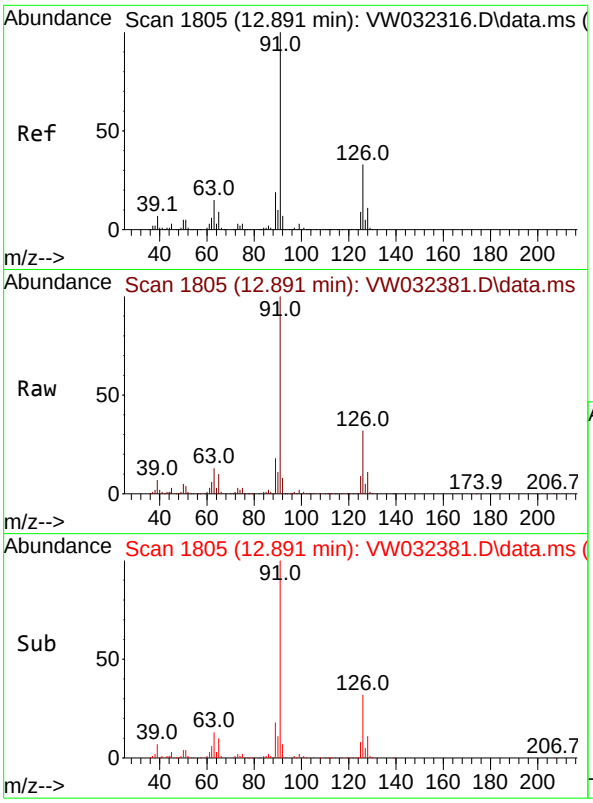


#78
n-propylbenzene
Concen: 20.504 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 91 Resp: 420117

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.8	35.4

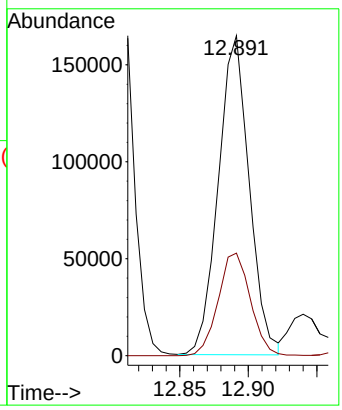




#79
2-Chlorotoluene
Concen: 20.609 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 91 Resp: 25819

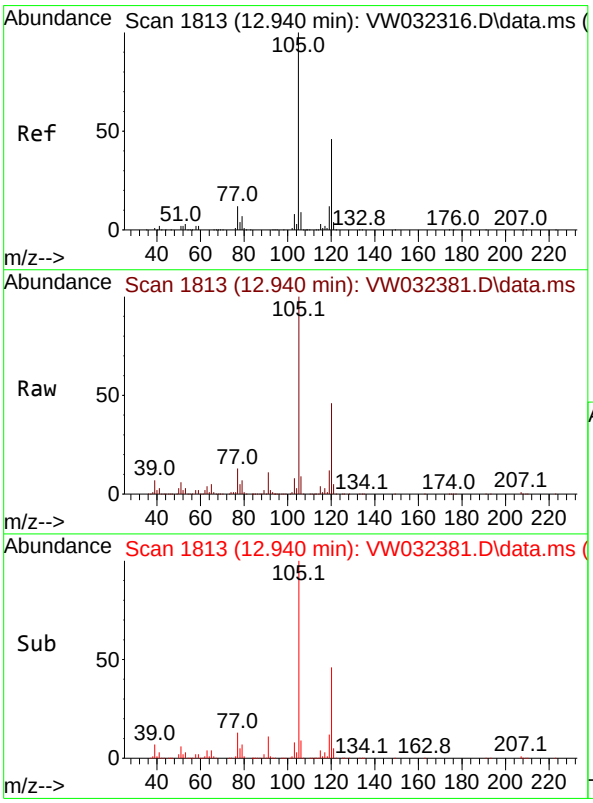
Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.6	49.7



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

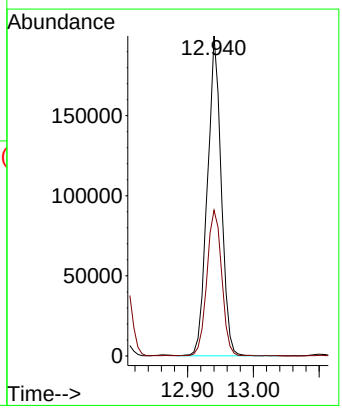
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

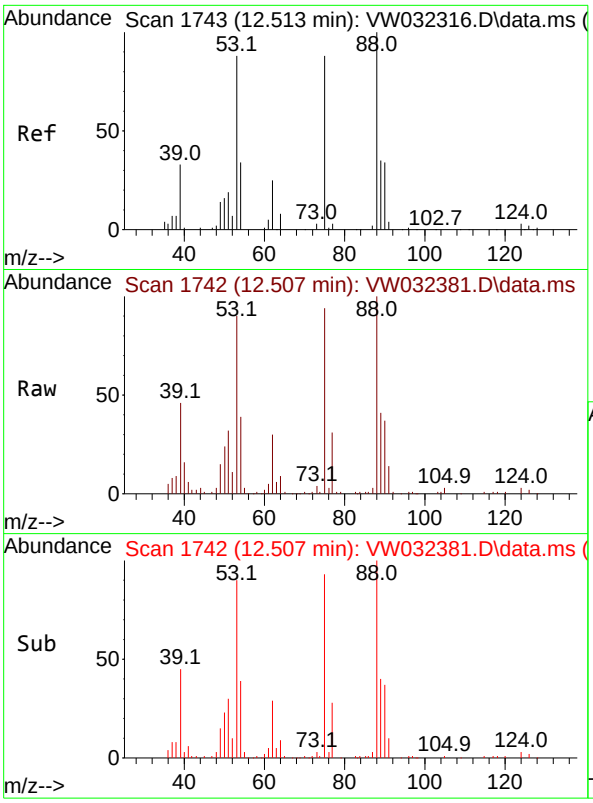


#80
1,3,5-Trimethylbenzene
Concen: 20.623 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:105 Resp: 292510

Ion	Ratio	Lower	Upper
105	100		
120	48.6	24.8	74.4





#81
trans-1,4-Dichloro-2-butene
Concen: 22.759 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

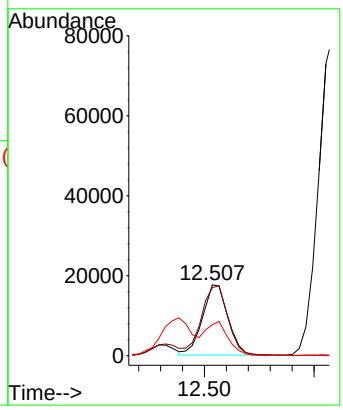
Tgt Ion: 75 Resp: 2834

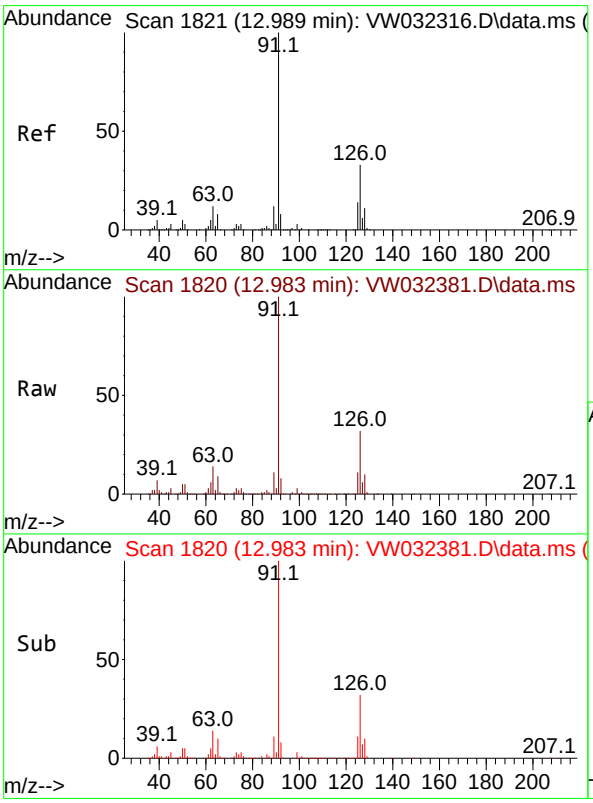
Ion	Ratio	Lower	Upper
75	100		
53	104.8	91.0	136.6
89	42.6	39.4	59.2

Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

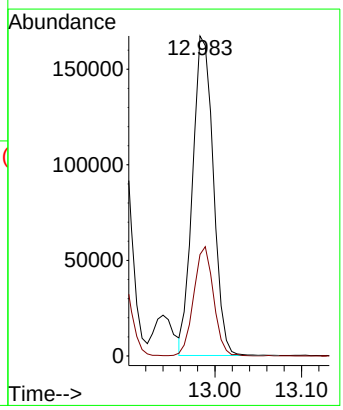


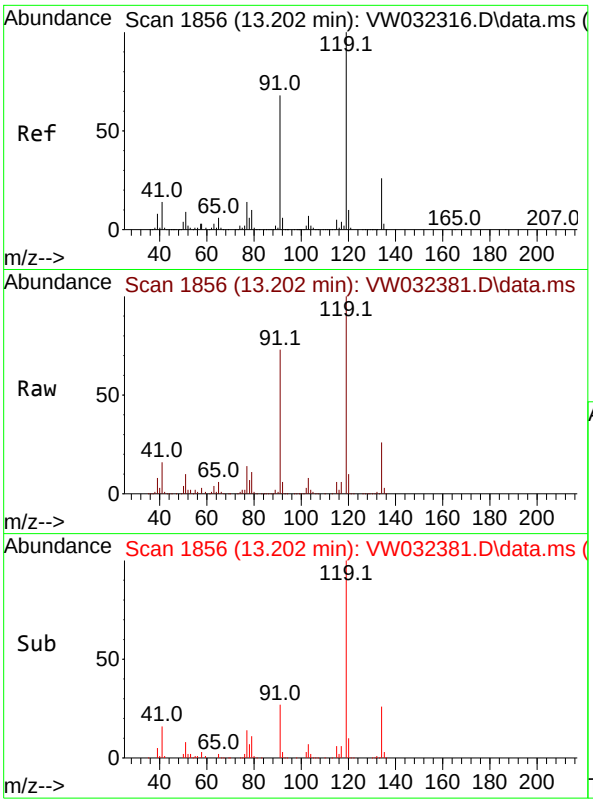


#82
4-Chlorotoluene
Concen: 20.836 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 91 Resp: 277521

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.1	48.2

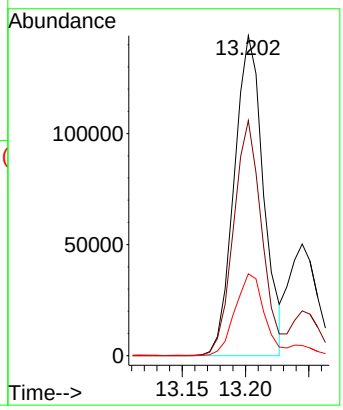




#83
tert-Butylbenzene
Concen: 19.983 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:119 Resp: 23255

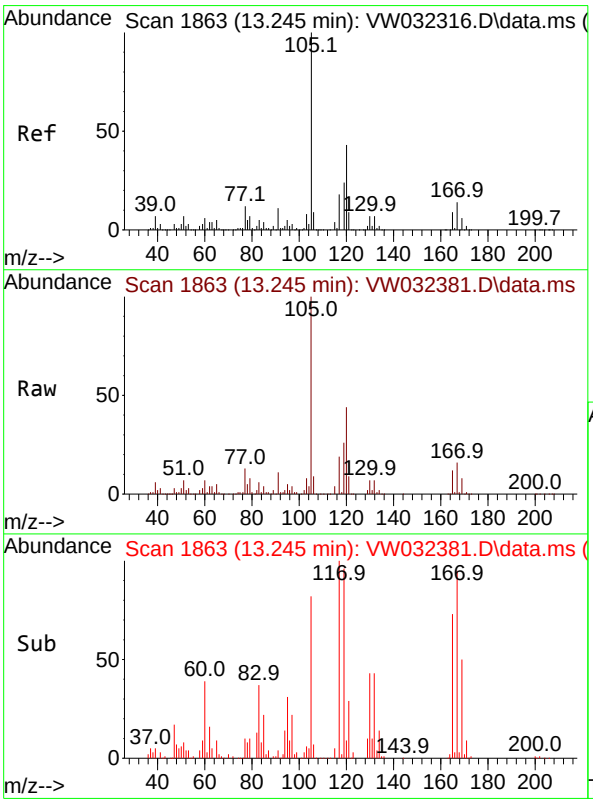
Ion	Ratio	Lower	Upper
119	100		
91	71.7	33.8	101.3
134	25.7	12.5	37.5



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

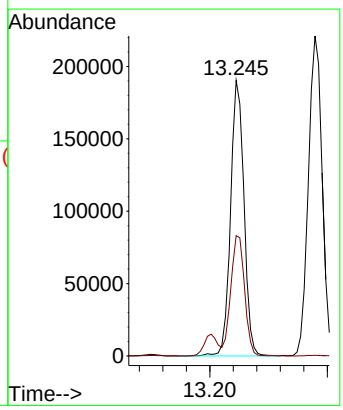
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

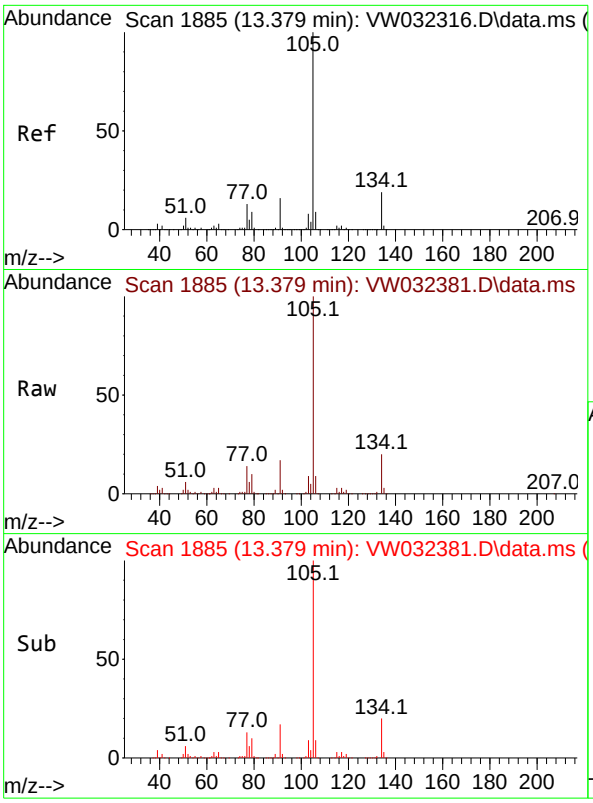


#84
1,2,4-Trimethylbenzene
Concen: 20.959 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:105 Resp: 302270

Ion	Ratio	Lower	Upper
105	100		
120	44.6	22.1	66.3

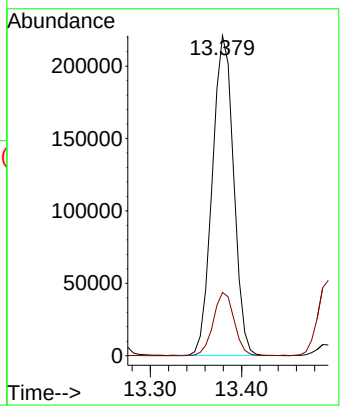




#85
sec-Butylbenzene
Concen: 20.163 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

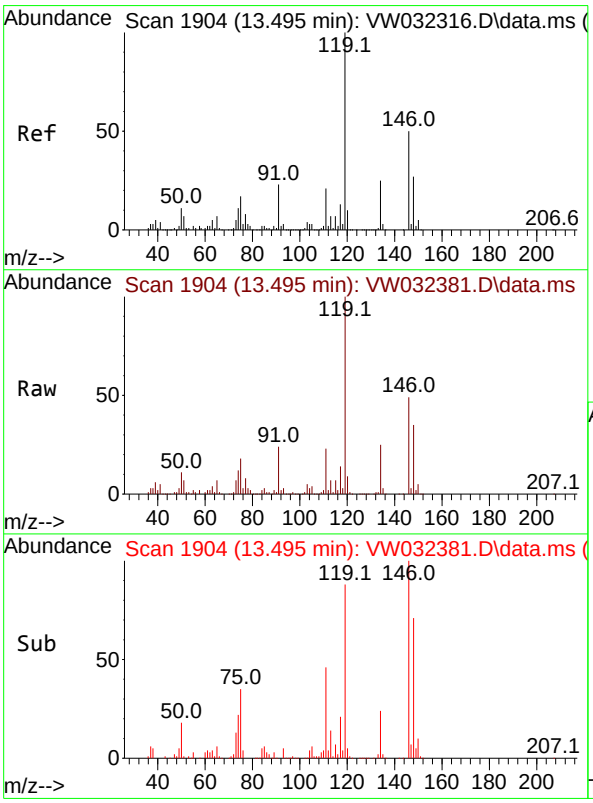
Tgt Ion:105 Resp: 35858

Ion	Ratio	Lower	Upper
105	100		
134	19.4	10.1	30.1



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

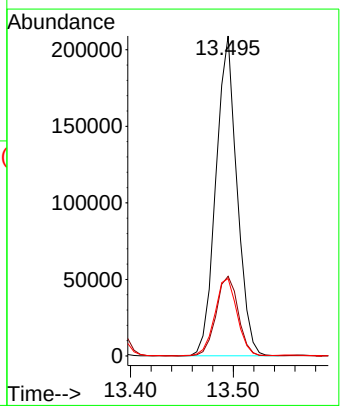
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

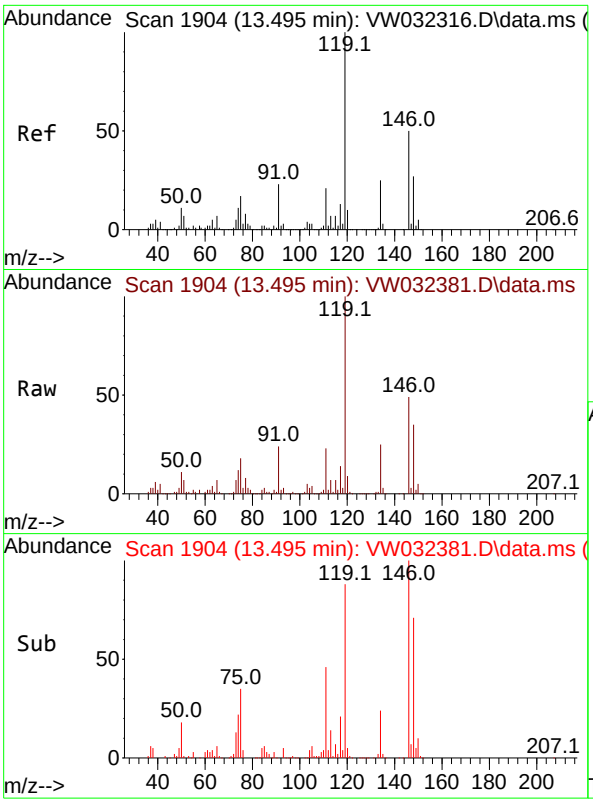


#86
p-Isopropyltoluene
Concen: 20.136 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:119 Resp: 297141

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.6	37.6
91	25.5	12.4	37.0

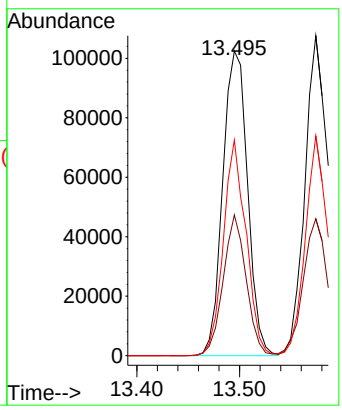




#87
1,3-Dichlorobenzene
Concen: 21.478 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

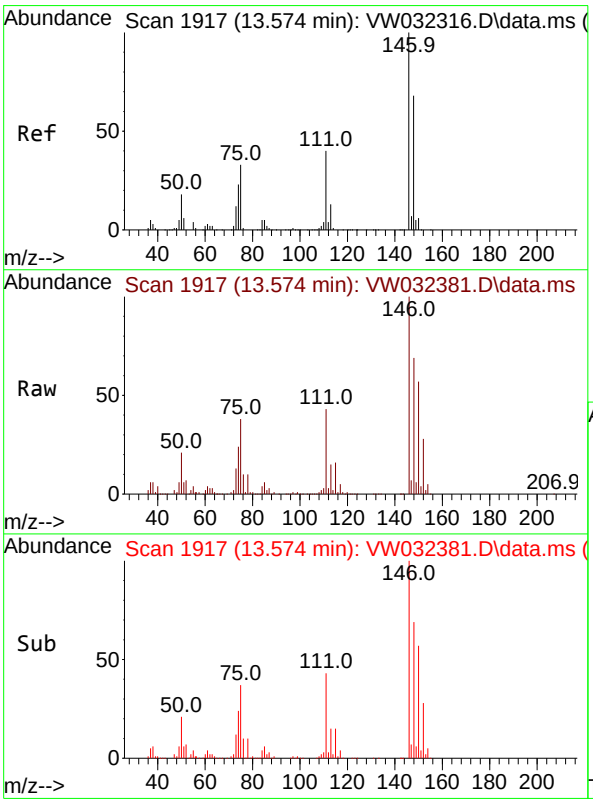
Tgt Ion:146 Resp: 17196

Ion	Ratio	Lower	Upper
146	100		
111	42.7	20.6	61.9
148	64.5	30.6	92.0



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

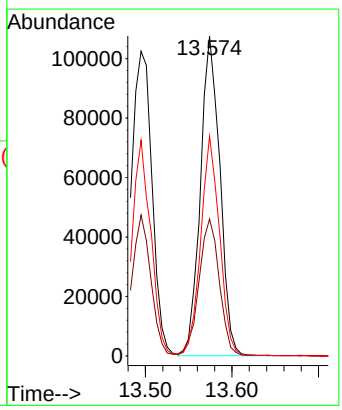
Manual Integrations
APPROVED
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

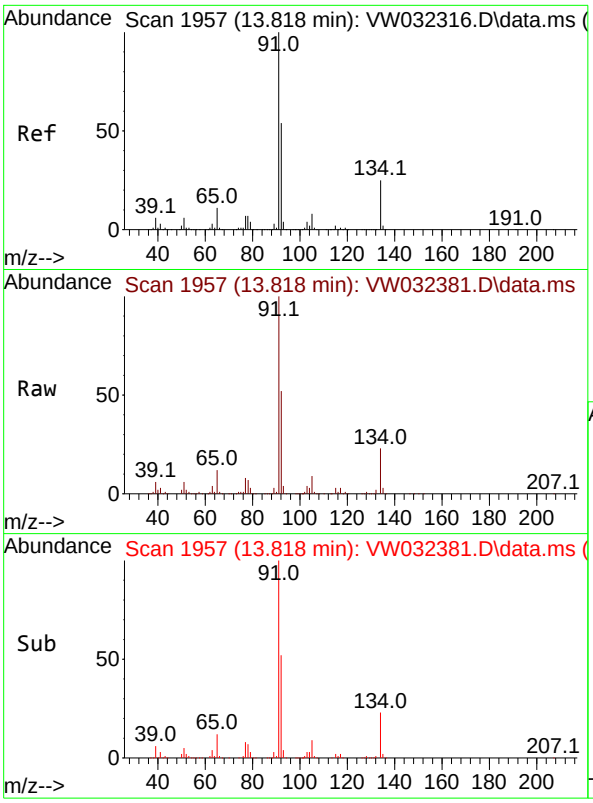


#88
1,4-Dichlorobenzene
Concen: 21.021 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:146 Resp: 168290

Ion	Ratio	Lower	Upper
146	100		
111	44.5	21.3	63.7
148	66.3	33.4	100.1

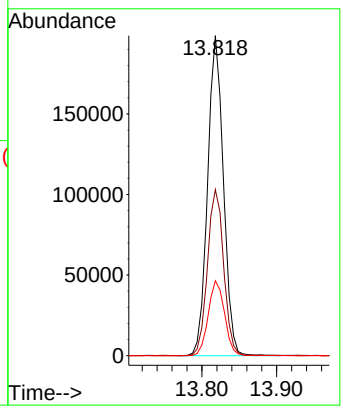




#89
n-Butylbenzene
Concen: 20.234 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 91 Resp: 29152

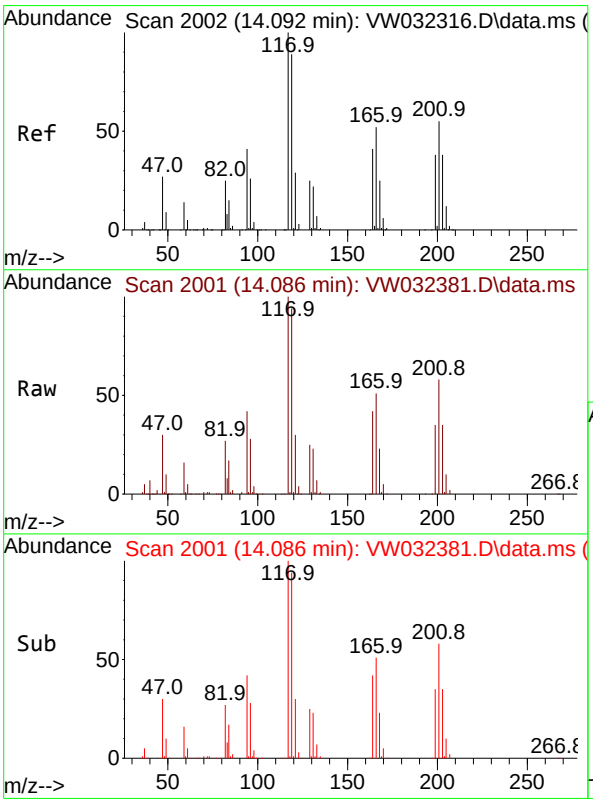
Ion	Ratio	Lower	Upper
91	100		
92	53.3	27.0	81.0
134	24.1	13.1	39.3



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

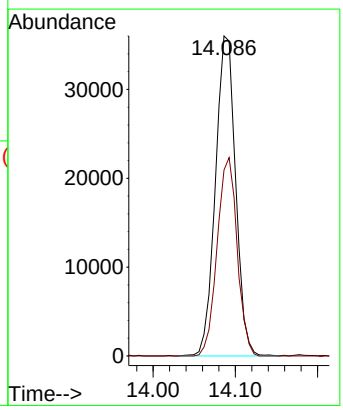
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

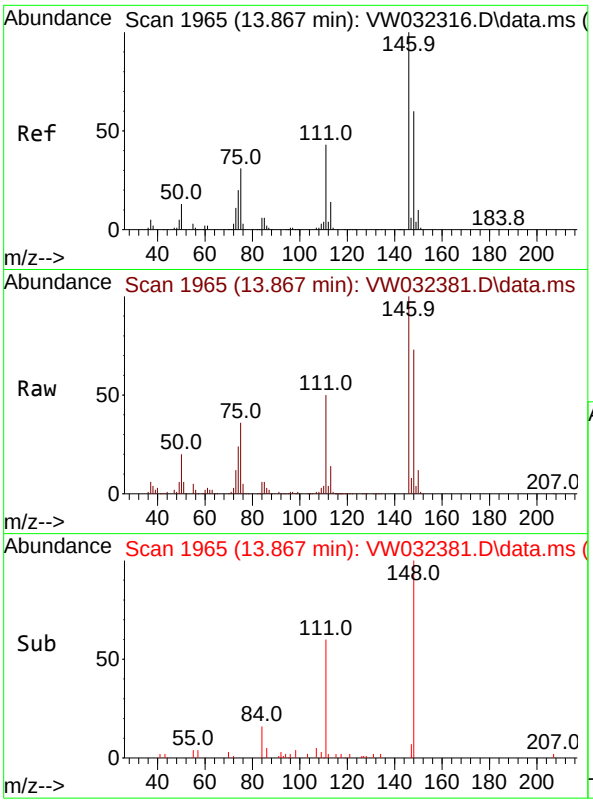


#90
Hexachloroethane
Concen: 23.273 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:117 Resp: 61557

Ion	Ratio	Lower	Upper
117	100		
201	61.3	32.8	98.4

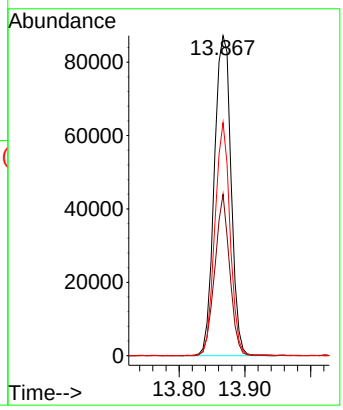




#91
1,2-Dichlorobenzene
Concen: 21.342 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:146 Resp: 15446

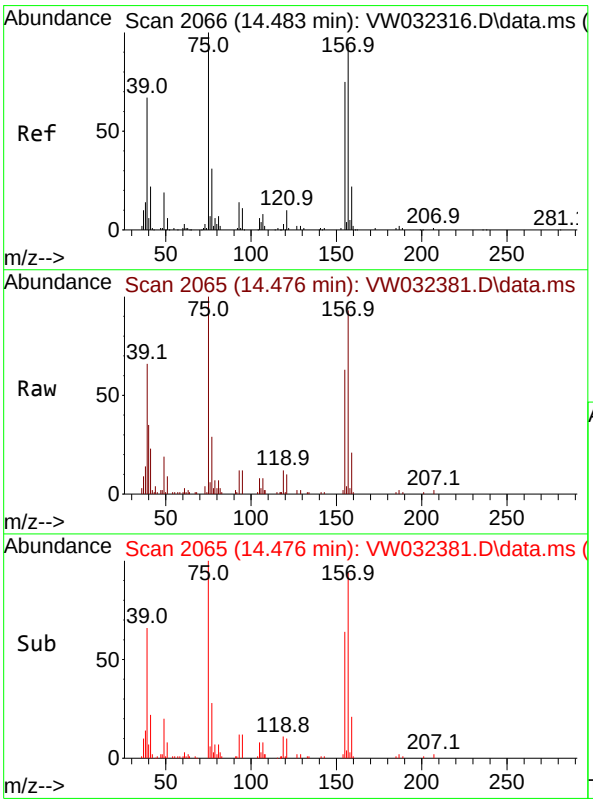
Ion	Ratio	Lower	Upper
146	100		
111	44.9	23.4	70.0
148	66.0	34.1	102.3



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

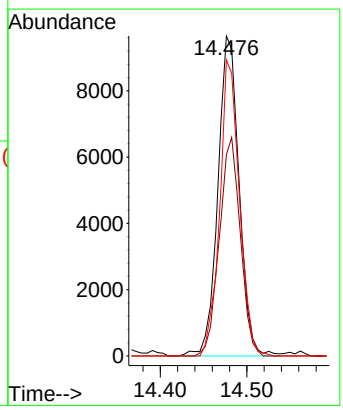
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

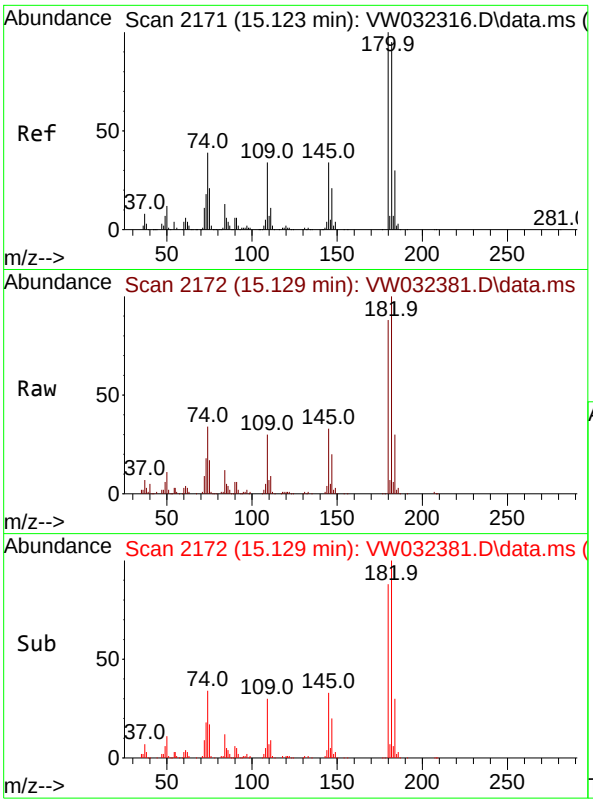


#92
1,2-Dibromo-3-Chloropropane
Concen: 23.030 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion: 75 Resp: 16422

Ion	Ratio	Lower	Upper
75	100		
155	67.4	40.8	122.5
157	85.8	51.8	155.4

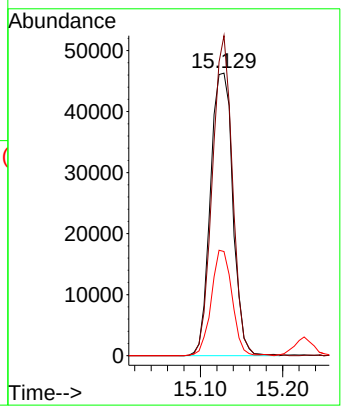




#93
1,2,4-Trichlorobenzene
Concen: 20.256 ug/l
RT: 15.129 min Scan# 21
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:180 Resp: 8791

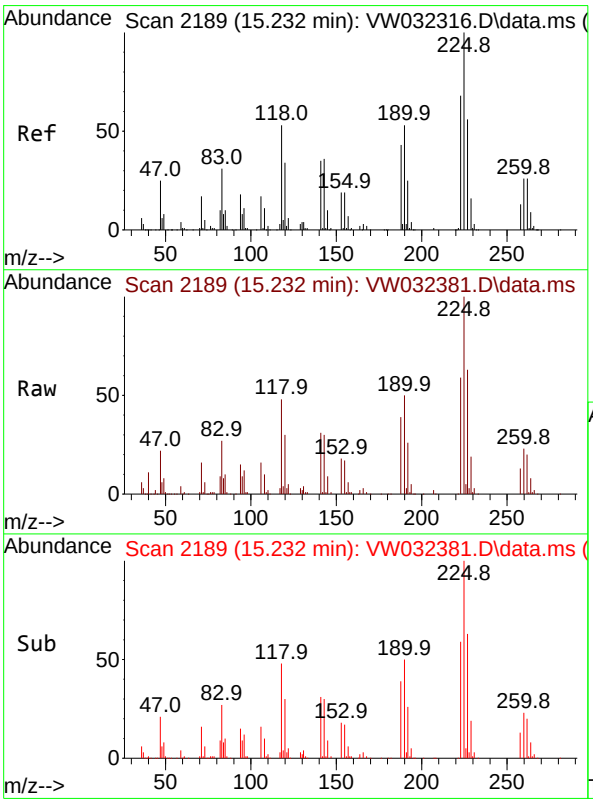
Ion	Ratio	Lower	Upper
180	100		
182	101.2	47.4	142.2
145	34.6	16.4	49.1



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

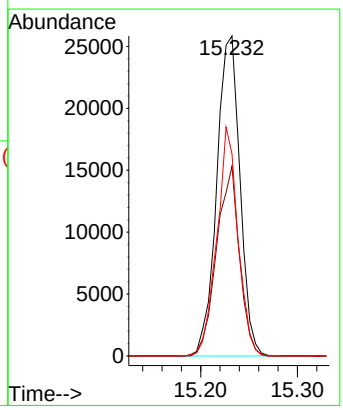
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

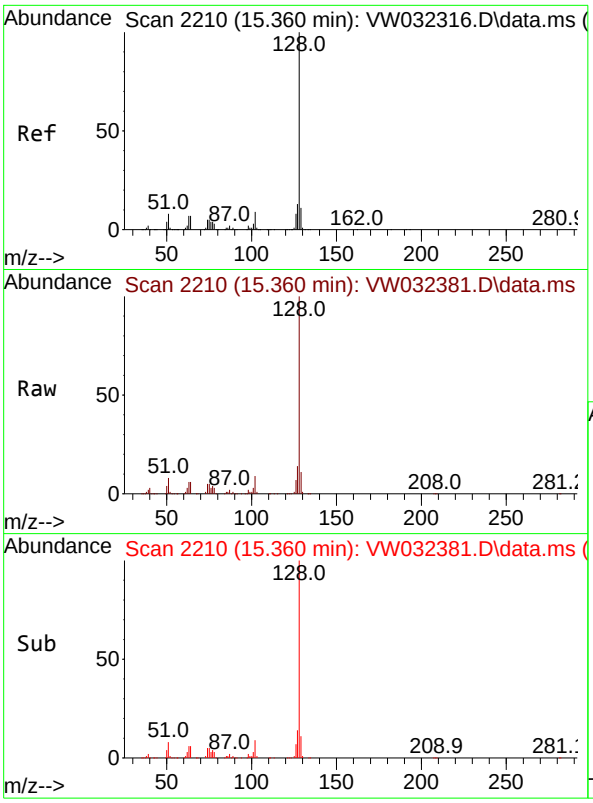


#94
Hexachlorobutadiene
Concen: 21.748 ug/l
RT: 15.232 min Scan# 2189
Delta R.T. 0.006 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:225 Resp: 43154

Ion	Ratio	Lower	Upper
225	100		
223	57.9	29.8	89.3
227	64.9	30.5	91.5

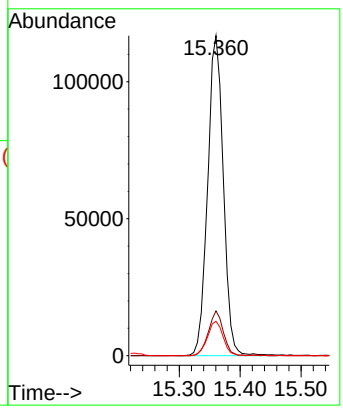




#95
Naphthalene
Concen: 20.040 ug/l
RT: 15.360 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:128 Resp: 20886

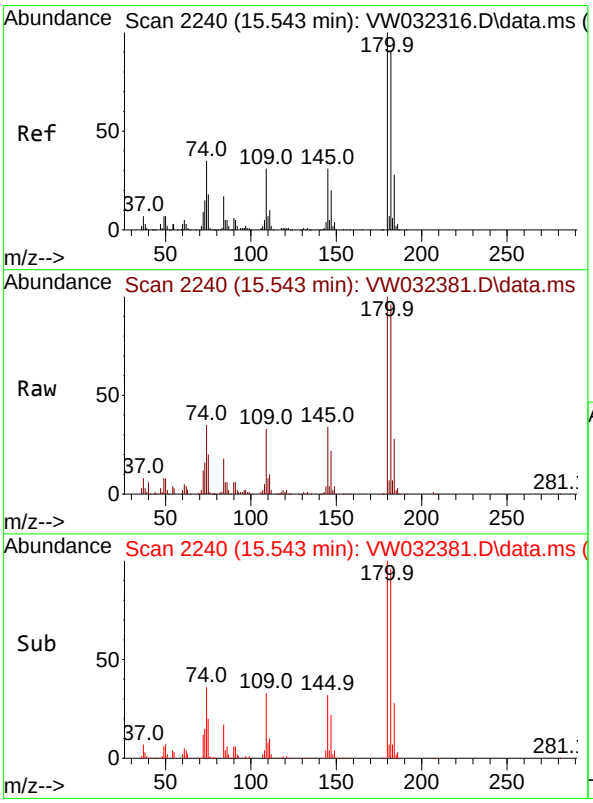
Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.6	16.0
129	10.8	8.4	12.6



Instrument :
MSVOA_W
ClientSampleId :
VW1020SBSD01

Manual Integrations
APPROVED

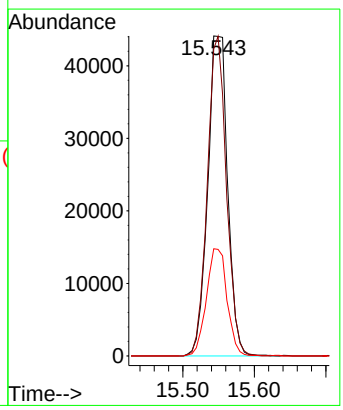
Reviewed By :Amit Patel 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.929 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.000 min
Lab File: VW032381.D
Acq: 20 Oct 2025 12:03

Tgt Ion:180 Resp: 85615

Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.7	143.1
145	34.6	17.2	51.6



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

Manual Integration Report

Sequence:	VW100125	Instrument	MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VW032313.D	1,2,3-Trichloropropane	MMDadoda	10/3/2025 2:27:08 AM	SAM	10/3/2025 2:31:09 AM	Peak Integrated by Software
VSTDICC010	VW032314.D	1,2,3-Trichloropropane	MMDadoda	10/3/2025 2:27:10 AM	SAM	10/3/2025 2:31:10 AM	Peak Integrated by Software
VSTDICC020	VW032315.D	1,2,3-Trichloropropane	MMDadoda	10/3/2025 2:27:11 AM	SAM	10/3/2025 2:31:12 AM	Peak Integrated by Software
VSTDICCC050	VW032316.D	1,2,3-Trichloropropane	MMDadoda	10/3/2025 2:27:13 AM	SAM	10/3/2025 2:31:13 AM	Peak Integrated by Software
VSTDICC100	VW032317.D	1,2,3-Trichloropropane	MMDadoda	10/3/2025 2:27:14 AM	SAM	10/3/2025 2:31:14 AM	Peak Integrated by Software
VSTDICC150	VW032318.D	1,2,3-Trichloropropane	MMDadoda	10/3/2025 2:27:16 AM	SAM	10/3/2025 2:31:16 AM	Peak Integrated by Software
VSTDICV050	VW032320.D	1,2,3-Trichloropropane	MMDadoda	10/3/2025 2:27:18 AM	SAM	10/3/2025 2:31:17 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VW102025	Instrument	MSVOA_w

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VW032378.D	1,2,3-Trichloropropane	Amit	10/21/2025 12:23:15 PM	sam	10/21/2025 12:57:29 PM	Peak Integrated by Software
VW1020SBS01	VW032380.D	1,2,3-Trichloropropane	Amit	10/21/2025 12:23:18 PM	sam	10/21/2025 12:57:35 PM	Peak Integrated by Software
VW1020SBSD01	VW032381.D	1,2,3-Trichloropropane	Amit	10/21/2025 12:23:24 PM	sam	10/21/2025 12:57:45 PM	Peak Integrated by Software
Q3393-02	VW032394.D	Methylcyclohexane	Amit	10/21/2025 12:23:35 PM	sam	10/21/2025 12:58:35 PM	Peak Integrated by Software
VSTDCCC050	VW032403.D	1,2,3-Trichloropropane	Amit	10/21/2025 12:24:06 PM	sam	10/21/2025 12:58:11 PM	Peak Integrated by Software

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

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

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

Manual Integration Report

Sequence:	VY100725	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	VY102025	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023495.D	1,2,3-Trichloropropane	Amit	10/21/2025 11:05:46 AM	sam	10/21/2025 1:00:37 PM	Peak Integrated by Software
VY1020SBS01	VY023497.D	1,2,3-Trichloropropane	Amit	10/21/2025 11:05:57 AM	sam	10/21/2025 1:00:44 PM	Peak Integrated by Software
VY1020SBS01	VY023497.D	Methacrylonitrile	Amit	10/21/2025 11:05:57 AM	sam	10/21/2025 1:00:44 PM	Peak Integrated by Software
Q3393-05	VY023517.D	Methylcyclohexane	Amit	10/21/2025 11:06:15 AM	sam	10/21/2025 1:01:00 PM	Peak Integrated by Software
VSTDCCC050	VY023519.D	1,2,3-Trichloropropane	Amit	10/21/2025 11:06:22 AM	sam	10/21/2025 1:01:09 PM	Peak Integrated by Software
VSTDCCC050	VY023519.D	Methacrylonitrile	Amit	10/21/2025 11:06:22 AM	sam	10/21/2025 1:01:09 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VY102125	Instrument	MSVOA_y

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VY023521.D	1,2,3-Trichloropropane	Amit	10/24/2025 11:55:48 AM	MMDadoda	10/27/2025 7:57:12 AM	Peak Integrated by Software
VY1021SBS01	VY023523.D	1,2,3-Trichloropropane	Amit	10/24/2025 11:55:53 AM	MMDadoda	10/27/2025 7:57:16 AM	Peak Integrated by Software
VY1021SBS01	VY023523.D	Methacrylonitrile	Amit	10/24/2025 11:55:53 AM	MMDadoda	10/27/2025 7:57:16 AM	Peak Integrated by Software

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

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW100125

Review By	Mahesh Dadoda	Review On	10/3/2025 2:27:29 AM				
Supervise By	Semsettin Yesilyurt	Supervise On	10/3/2025 2:31:29 AM				
SubDirectory	VW100125	HP Acquire Method	MSVOA_W	HP Processing Method	82w100125s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135712
Initial Calibration Stds	VP135713,VP135714,VP135715,VP135716,VP135717,VP135718
CCC	
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	VW032312.D	01 Oct 2025 08:12	SY/MD	Ok
2	VSTDICC005	VW032313.D	01 Oct 2025 13:12	SY/MD	Ok,M
3	VSTDICC010	VW032314.D	01 Oct 2025 13:34	SY/MD	Ok,M
4	VSTDICC020	VW032315.D	01 Oct 2025 14:15	SY/MD	Ok,M
5	VSTDICCC050	VW032316.D	01 Oct 2025 14:37	SY/MD	Ok,M
6	VSTDICC100	VW032317.D	01 Oct 2025 14:59	SY/MD	Ok,M
7	VSTDICC150	VW032318.D	01 Oct 2025 15:20	SY/MD	Ok,M
8	VIBLK	VW032319.D	01 Oct 2025 15:42	SY/MD	Ok
9	VSTDICV050	VW032320.D	01 Oct 2025 16:04	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW102025

Review By	Semsettin Yesilyurt	Review On	10/21/2025 1:05:25 PM				
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 8:11:29 AM				
SubDirectory	VW102025	HP Acquire Method	MSVOA_W	HP Processing Method	82w100125s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135844
Initial Calibration Stds	
CCC	VP135847,VP135848
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	VW032377.D	20 Oct 2025 09:36	SY/MD	Ok
2	VSTDCCC050	VW032378.D	20 Oct 2025 10:20	SY/MD	Ok,M
3	VW1020SBL01	VW032379.D	20 Oct 2025 11:11	SY/MD	Ok
4	VW1020SBS01	VW032380.D	20 Oct 2025 11:41	SY/MD	Ok,M
5	VW1020SBSD01	VW032381.D	20 Oct 2025 12:03	SY/MD	Ok,M
6	Q3363-05	VW032382.D	20 Oct 2025 12:44	SY/MD	Ok
7	Q3375-01	VW032383.D	20 Oct 2025 13:07	SY/MD	Ok
8	Q3375-02	VW032384.D	20 Oct 2025 13:29	SY/MD	Ok
9	Q3375-03	VW032385.D	20 Oct 2025 13:50	SY/MD	Ok
10	Q3375-04	VW032386.D	20 Oct 2025 14:12	SY/MD	Ok
11	Q3375-05	VW032387.D	20 Oct 2025 14:34	SY/MD	Ok
12	Q3376-01	VW032388.D	20 Oct 2025 14:56	SY/MD	Ok
13	Q3376-02	VW032389.D	20 Oct 2025 15:18	SY/MD	ReRun
14	Q3376-03	VW032390.D	20 Oct 2025 15:40	SY/MD	Ok,M
15	Q3376-04	VW032391.D	20 Oct 2025 16:02	SY/MD	Ok,M
16	Q3376-05	VW032392.D	20 Oct 2025 16:24	SY/MD	Ok
17	Q3393-01	VW032393.D	20 Oct 2025 16:46	SY/MD	Ok
18	Q3393-02	VW032394.D	20 Oct 2025 17:08	SY/MD	Ok,M
19	Q3393-03	VW032395.D	20 Oct 2025 17:29	SY/MD	ReRun
20	Q3395-01	VW032396.D	20 Oct 2025 17:51	SY/MD	Ok
21	Q3395-02	VW032397.D	20 Oct 2025 18:14	SY/MD	Ok

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

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW102025

Review By	Semsettin Yesilyurt	Review On	10/21/2025 1:05:25 PM				
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 8:11:29 AM				
SubDirectory	VW102025	HP Acquire Method	MSVOA_W	HP Processing Method	82w100125s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135844
Initial Calibration Stds	
CCC	VP135847,VP135848
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3395-05	VW032398.D	20 Oct 2025 18:36	SY/MD	Ok,M
23	Q3395-07	VW032399.D	20 Oct 2025 18:58	SY/MD	Ok
24	Q3395-03MS	VW032400.D	20 Oct 2025 19:20	SY/MD	ReRun
25	Q3395-04MSD	VW032401.D	20 Oct 2025 19:42	SY/MD	ReRun
26	VIBLK	VW032402.D	20 Oct 2025 20:04	SY/MD	Ok
27	VSTDCCC050	VW032403.D	20 Oct 2025 20:26	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_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

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102025

Review By	John Carlone	Review On	10/24/2025 2:06:32 PM				
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 8:23:46 AM				
SubDirectory	VY102025	HP Acquire Method	MSVOA_Y		HP Processing Method	82y100725s.m	

STD. NAME	STD REF.#
Tune/Reschk	VP135882
Initial Calibration Stds	
CCC	VP135883,VP135884
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	VY023494.D	20 Oct 2025 08:38	SY/MD	Ok
2	VSTDCCC050	VY023495.D	20 Oct 2025 09:10	SY/MD	Ok,M
3	VY1020SBL01	VY023496.D	20 Oct 2025 09:37	SY/MD	Ok
4	VY1020SBS01	VY023497.D	20 Oct 2025 10:07	SY/MD	Ok,M
5	VY1020SBSD01	VY023498.D	20 Oct 2025 10:29	SY/MD	Ok,M
6	Q3390-03	VY023499.D	20 Oct 2025 11:14	SY/MD	Ok
7	Q3366-01	VY023500.D	20 Oct 2025 11:38	SY/MD	Ok
8	Q3367-01	VY023501.D	20 Oct 2025 12:01	SY/MD	Ok
9	Q3374-03	VY023502.D	20 Oct 2025 12:31	SY/MD	Ok
10	Q3374-07	VY023503.D	20 Oct 2025 12:54	SY/MD	Ok
11	Q3369-03	VY023504.D	20 Oct 2025 13:18	SY/MD	Ok
12	Q3369-07	VY023505.D	20 Oct 2025 13:49	SY/MD	Ok
13	Q3386-01	VY023506.D	20 Oct 2025 14:12	SY/MD	ReRun
14	Q3383-01	VY023507.D	20 Oct 2025 14:36	SY/MD	ReRun
15	Q3382-01	VY023508.D	20 Oct 2025 14:59	SY/MD	Not Ok
16	Q3392-03	VY023509.D	20 Oct 2025 15:23	SY/MD	Ok
17	Q3392-07	VY023510.D	20 Oct 2025 15:46	SY/MD	Ok
18	Q3381-01	VY023511.D	20 Oct 2025 16:10	SY/MD	Ok
19	Q3381-03	VY023512.D	20 Oct 2025 16:33	SY/MD	Ok
20	Q3381-05	VY023513.D	20 Oct 2025 16:57	SY/MD	Ok
21	Q3381-07	VY023514.D	20 Oct 2025 17:21	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102025

Review By	John Carlone	Review On	10/24/2025 2:06:32 PM				
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 8:23:46 AM				
SubDirectory	VY102025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135882
Initial Calibration Stds	
CCC	VP135883,VP135884
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3397-03	VY023515.D	20 Oct 2025 17:45	SY/MD	Ok
23	Q3393-04	VY023516.D	20 Oct 2025 18:09	SY/MD	Ok
24	Q3393-05	VY023517.D	20 Oct 2025 18:33	SY/MD	Ok,M
25	VIBLK	VY023518.D	20 Oct 2025 18:56	SY/MD	Ok
26	VSTDCCC050	VY023519.D	20 Oct 2025 19:28	SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102125

Review By	John Carlone	Review On	10/24/2025 2:07:04 PM				
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 7:57:33 AM				
SubDirectory	VY102125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135871
Initial Calibration Stds	
CCC	VP135872,VP135873
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	VY023520.D	21 Oct 2025 08:29	SY/MD	Ok
2	VSTDCCC050	VY023521.D	21 Oct 2025 09:05	SY/MD	Ok,M
3	VY1021SBL01	VY023522.D	21 Oct 2025 09:34	SY/MD	Ok
4	VY1021SBS01	VY023523.D	21 Oct 2025 10:04	SY/MD	Ok,M
5	VY1021SBSD01	VY023524.D	21 Oct 2025 10:27	SY/MD	Ok,M
6	Q3383-01	VY023525.D	21 Oct 2025 11:03	SY/MD	Ok
7	Q3382-01	VY023526.D	21 Oct 2025 11:26	SY/MD	Ok
8	Q3386-01RE	VY023527.D	21 Oct 2025 11:50	SY/MD	Confirms
9	Q3376-02	VY023528.D	21 Oct 2025 12:14	SY/MD	Ok
10	Q3393-03	VY023529.D	21 Oct 2025 12:38	SY/MD	Ok
11	Q3402-01	VY023530.D	21 Oct 2025 13:04	SY/MD	Ok
12	Q3402-04	VY023531.D	21 Oct 2025 13:48	SY/MD	Ok
13	Q3402-07	VY023532.D	21 Oct 2025 14:12	SY/MD	Ok
14	Q3402-10	VY023533.D	21 Oct 2025 14:35	SY/MD	Ok
15	Q3399-03	VY023534.D	21 Oct 2025 14:59	SY/MD	Ok
16	Q3410-02	VY023535.D	21 Oct 2025 15:22	SY/MD	Ok
17	Q3403-03	VY023536.D	21 Oct 2025 15:47	SY/MD	Ok
18	Q3406-01	VY023537.D	21 Oct 2025 16:10	SY/MD	Ok
19	Q3413-01	VY023538.D	21 Oct 2025 16:34	SY/MD	Not Ok
20	Q3412-03	VY023539.D	21 Oct 2025 16:57	SY/MD	Ok
21	Q3404-01	VY023540.D	21 Oct 2025 17:21	SY/MD	ReRun

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102125

Review By	John Carlone	Review On	10/24/2025 2:07:04 PM				
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 7:57:33 AM				
SubDirectory	VY102125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100725s.m		

STD. NAME	STD REF.#
Tune/Reschk	VP135871
Initial Calibration Stds	
CCC	VP135872,VP135873
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3395-03MS	VY023541.D	21 Oct 2025 17:44	SY/MD	Not Ok

M : Manual Integration

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

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW100125

Review By	Mahesh Dadoda	Review On	10/3/2025 2:27:29 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	10/3/2025 2:31:29 AM		
SubDirectory	VW100125	HP Acquire Method	MSVOA_W	HP Processing Method	82w100125s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135712
Initial Calibration Stds	VP135713,VP135714,VP135715,VP135716,VP135717,VP135718
CCC	
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	VW032312.D	01 Oct 2025 08:12		SY/MD	Ok
2	VSTDICC005	VSTDICC005	VW032313.D	01 Oct 2025 13:12	Pass for DOD	SY/MD	Ok,M
3	VSTDICC010	VSTDICC010	VW032314.D	01 Oct 2025 13:34	LR-20	SY/MD	Ok,M
4	VSTDICC020	VSTDICC020	VW032315.D	01 Oct 2025 14:15		SY/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VW032316.D	01 Oct 2025 14:37		SY/MD	Ok,M
6	VSTDICC100	VSTDICC100	VW032317.D	01 Oct 2025 14:59		SY/MD	Ok,M
7	VSTDICC150	VSTDICC150	VW032318.D	01 Oct 2025 15:20		SY/MD	Ok,M
8	VIBLK	VIBLK	VW032319.D	01 Oct 2025 15:42		SY/MD	Ok
9	VSTDICV050	ICVVW100125	VW032320.D	01 Oct 2025 16:04		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW102025

Review By	Semsettin Yesilyurt	Review On	10/21/2025 1:05:25 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 8:11:29 AM		
SubDirectory	VW102025	HP Acquire Method	MSVOA_W	HP Processing Method	82w100125s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135844
Initial Calibration Stds	
CCC	VP135847,VP135848
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	VW032377.D	20 Oct 2025 09:36		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VW032378.D	20 Oct 2025 10:20		SY/MD	Ok,M
3	VW1020SBL01	VW1020SBL01	VW032379.D	20 Oct 2025 11:11		SY/MD	Ok
4	VW1020SBS01	VW1020SBS01	VW032380.D	20 Oct 2025 11:41		SY/MD	Ok,M
5	VW1020SBSD01	VW1020SBSD01	VW032381.D	20 Oct 2025 12:03		SY/MD	Ok,M
6	Q3363-05	COMP01-20251015	VW032382.D	20 Oct 2025 12:44	vial-B	SY/MD	Ok
7	Q3375-01	PR132-S02-074099-20	VW032383.D	20 Oct 2025 13:07	vial-A	SY/MD	Ok
8	Q3375-02	PR132-S04-000013-20	VW032384.D	20 Oct 2025 13:29	vial-A	SY/MD	Ok
9	Q3375-03	PR132-S05-000057-20	VW032385.D	20 Oct 2025 13:50	vial-A	SY/MD	Ok
10	Q3375-04	PR132-S02-010074-20	VW032386.D	20 Oct 2025 14:12	vial-A	SY/MD	Ok
11	Q3375-05	PR132-DP02-20251016	VW032387.D	20 Oct 2025 14:34	vial-A	SY/MD	Ok
12	Q3376-01	PR132-S05-057082-20	VW032388.D	20 Oct 2025 14:56	vial-A	SY/MD	Ok
13	Q3376-02	PR132-DP01-20251016	VW032389.D	20 Oct 2025 15:18	vial-A Surrogate fail	SY/MD	ReRun
14	Q3376-03	PR132-COMP2-20251(	VW032390.D	20 Oct 2025 15:40	vial-A	SY/MD	Ok,M
15	Q3376-04	PR132-S12-047072-20	VW032391.D	20 Oct 2025 16:02	vial-A	SY/MD	Ok,M
16	Q3376-05	PR132-S12-020047-20	VW032392.D	20 Oct 2025 16:24	vial-A	SY/MD	Ok
17	Q3393-01	PR132-S10-000022-20	VW032393.D	20 Oct 2025 16:46	vial-A	SY/MD	Ok
18	Q3393-02	PR132-S10-022047-20	VW032394.D	20 Oct 2025 17:08	vial-A	SY/MD	Ok,M

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

Instrument ID: MSVOA_W

Daily Analysis Runlog For Sequence/QCBatch ID # VW102025

Review By	Semsettin Yesilyurt	Review On	10/21/2025 1:05:25 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 8:11:29 AM		
SubDirectory	VW102025	HP Acquire Method	MSVOA_W	HP Processing Method	82w100125s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135844
Initial Calibration Stds	
CCC	VP135847,VP135848
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3393-03	PR132-S08-013038-20	VW032395.D	20 Oct 2025 17:29	vial-A Surrogate fail	SY/MD	ReRun
20	Q3395-01	PR132-S09-000051-20	VW032396.D	20 Oct 2025 17:51	vial-A	SY/MD	Ok
21	Q3395-02	PR132-S07-000102-20	VW032397.D	20 Oct 2025 18:14	vial-A	SY/MD	Ok
22	Q3395-05	PR132-S07-102116-20	VW032398.D	20 Oct 2025 18:36	vial-A	SY/MD	Ok,M
23	Q3395-07	PR132-S08-038048-20	VW032399.D	20 Oct 2025 18:58	vial-A	SY/MD	Ok
24	Q3395-03MS	PR132-S07-000102-20	VW032400.D	20 Oct 2025 19:20	vial-A Internal Standard Fail	SY/MD	ReRun
25	Q3395-04MSD	PR132-S07-000102-20	VW032401.D	20 Oct 2025 19:42	vial-A Internal Standard Fail	SY/MD	ReRun
26	VIBLK	VIBLK	VW032402.D	20 Oct 2025 20:04		SY/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VW032403.D	20 Oct 2025 20:26		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_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

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102025

Review By	John Carlone	Review On	10/24/2025 2:06:32 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 8:23:46 AM		
SubDirectory	VY102025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135882
Initial Calibration Stds	
CCC	VP135883,VP135884
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	VY023494.D	20 Oct 2025 08:38		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023495.D	20 Oct 2025 09:10		SY/MD	Ok,M
3	VY1020SBL01	VY1020SBL01	VY023496.D	20 Oct 2025 09:37		SY/MD	Ok
4	VY1020SBS01	VY1020SBS01	VY023497.D	20 Oct 2025 10:07		SY/MD	Ok,M
5	VY1020SBSD01	VY1020SBSD01	VY023498.D	20 Oct 2025 10:29		SY/MD	Ok,M
6	Q3390-03	4174	VY023499.D	20 Oct 2025 11:14	vial-A.	SY/MD	Ok
7	Q3366-01	TR-06-101625	VY023500.D	20 Oct 2025 11:38	vial-B	SY/MD	Ok
8	Q3367-01	BU-03-101625	VY023501.D	20 Oct 2025 12:01	vial-B	SY/MD	Ok
9	Q3374-03	TP-4-VOC	VY023502.D	20 Oct 2025 12:31	vial-A	SY/MD	Ok
10	Q3374-07	TP-5-VOC	VY023503.D	20 Oct 2025 12:54	vial-A	SY/MD	Ok
11	Q3369-03	MH-22-VOC	VY023504.D	20 Oct 2025 13:18	vial-A	SY/MD	Ok
12	Q3369-07	MH-21-VOC	VY023505.D	20 Oct 2025 13:49	vial-A	SY/MD	Ok
13	Q3386-01	237	VY023506.D	20 Oct 2025 14:12	vial-A Internal Standard Fail	SY/MD	ReRun
14	Q3383-01	OR-03-101725	VY023507.D	20 Oct 2025 14:36	vial-A Internal Standard Fail	SY/MD	ReRun
15	Q3382-01	CENTRAL-AVE-TP	VY023508.D	20 Oct 2025 14:59	vial-A Not purged	SY/MD	Not Ok
16	Q3392-03	MH-20-VOC	VY023509.D	20 Oct 2025 15:23	vial-A	SY/MD	Ok
17	Q3392-07	MH-19-VOC	VY023510.D	20 Oct 2025 15:46	vial-A	SY/MD	Ok
18	Q3381-01	VNJ-222	VY023511.D	20 Oct 2025 16:10	vial-A	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102025

Review By	John Carlone	Review On	10/24/2025 2:06:32 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 8:23:46 AM		
SubDirectory	VY102025	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135882
Initial Calibration Stds	
CCC	VP135883,VP135884
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3381-03	VNJ-245	VY023512.D	20 Oct 2025 16:33	vial-A	SY/MD	Ok
20	Q3381-05	RBR200059	VY023513.D	20 Oct 2025 16:57	vial-A	SY/MD	Ok
21	Q3381-07	VNJ-255	VY023514.D	20 Oct 2025 17:21	vial-A	SY/MD	Ok
22	Q3397-03	TP-7-VOC	VY023515.D	20 Oct 2025 17:45	vial-A	SY/MD	Ok
23	Q3393-04	PR132-S06-000021-20	VY023516.D	20 Oct 2025 18:09	vial-A	SY/MD	Ok
24	Q3393-05	PR132-S08-000013-20	VY023517.D	20 Oct 2025 18:33	vial-A	SY/MD	Ok,M
25	VIBLK	VIBLK	VY023518.D	20 Oct 2025 18:56		SY/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VY023519.D	20 Oct 2025 19:28		SY/MD	Ok,M

M : Manual Integration

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102125

Review By	John Carlone	Review On	10/24/2025 2:07:04 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 7:57:33 AM		
SubDirectory	VY102125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135871
Initial Calibration Stds	
CCC	VP135872,VP135873
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	VY023520.D	21 Oct 2025 08:29		SY/MD	Ok
2	VSTDCCC050	VSTDCCC050	VY023521.D	21 Oct 2025 09:05		SY/MD	Ok,M
3	VY1021SBL01	VY1021SBL01	VY023522.D	21 Oct 2025 09:34		SY/MD	Ok
4	VY1021SBS01	VY1021SBS01	VY023523.D	21 Oct 2025 10:04		SY/MD	Ok,M
5	VY1021SBSD01	VY1021SBSD01	VY023524.D	21 Oct 2025 10:27		SY/MD	Ok,M
6	Q3383-01	OR-03-101725	VY023525.D	21 Oct 2025 11:03	vial-B	SY/MD	Ok
7	Q3382-01	CENTRAL-AVE-TP	VY023526.D	21 Oct 2025 11:26	vial-B Internal Standard Fail	SY/MD	Ok
8	Q3386-01RE	237RE	VY023527.D	21 Oct 2025 11:50	vial-B Internal Standard Fail	SY/MD	Confirms
9	Q3376-02	PR132-DP01-20251016	VY023528.D	21 Oct 2025 12:14	vial-B	SY/MD	Ok
10	Q3393-03	PR132-S08-013038-20	VY023529.D	21 Oct 2025 12:38	vial-B	SY/MD	Ok
11	Q3402-01	41-LA	VY023530.D	21 Oct 2025 13:04	vial-A	SY/MD	Ok
12	Q3402-04	41-RA	VY023531.D	21 Oct 2025 13:48	vial-A	SY/MD	Ok
13	Q3402-07	41-LB	VY023532.D	21 Oct 2025 14:12	vial-A	SY/MD	Ok
14	Q3402-10	41-RB	VY023533.D	21 Oct 2025 14:35	vial-A	SY/MD	Ok
15	Q3399-03	COMP-ROLLOFF	VY023534.D	21 Oct 2025 14:59	vial-A	SY/MD	Ok
16	Q3410-02	VOC	VY023535.D	21 Oct 2025 15:22	vial-A	SY/MD	Ok
17	Q3403-03	MH-18-VOC	VY023536.D	21 Oct 2025 15:47	vial-A	SY/MD	Ok
18	Q3406-01	ARS20-0037	VY023537.D	21 Oct 2025 16:10	vial-A	SY/MD	Ok

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

Instrument ID: MSVOA_Y

Daily Analysis Runlog For Sequence/QCBatch ID # VY102125

Review By	John Carlone	Review On	10/24/2025 2:07:04 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/27/2025 7:57:33 AM		
SubDirectory	VY102125	HP Acquire Method	MSVOA_Y	HP Processing Method	82y100725s.m

STD. NAME	STD REF.#
Tune/Reschk	VP135871
Initial Calibration Stds	
CCC	VP135872,VP135873
Internal Standard/PEM	VP133934
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3413-01	BP-VPB-184-GW-980-9	VY023538.D	21 Oct 2025 16:34	vial-A End CCC Missing	SY/MD	Not Ok
20	Q3412-03	TP-6-VOC	VY023539.D	21 Oct 2025 16:57	vial-A	SY/MD	Ok
21	Q3404-01	MOO-25-0285-0288	VY023540.D	21 Oct 2025 17:21	vial-A Internal standard fail	SY/MD	ReRun
22	Q3395-03MS	PR132-S07-000102-20	VY023541.D	21 Oct 2025 17:44	vial-B Internal Standard Fail	SY/MD	Not Ok

M : Manual Integration

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/21/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:25
In Date: 10/20/2025
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: 10/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB137589

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
Q3368-06	OUTSIDE-DUMPSTER	1	1.12	10.63	11.75	8.28	67.4	
Q3368-07	PRESS-SLUDGE	2	1.18	10.30	11.48	7.89	65.1	
Q3393-01	PR132-S10-000022-20251017	3	1.17	10.44	11.61	7.02	56.0	
Q3393-02	PR132-S10-022047-20251017	4	1.14	10.48	11.62	6.8	54.0	
Q3393-03	PR132-S08-013038-20251017	5	1.11	10.85	11.96	6.84	52.8	
Q3393-04	PR132-S06-000021-20251017	6	1.13	10.50	11.63	7.03	56.2	
Q3393-05	PR132-S08-000013-20251017	7	1.12	10.53	11.65	6.6	52.0	
Q3395-01	PR132-S09-000051-20251017	8	1.15	10.48	11.63	6.69	52.9	
Q3395-02	PR132-S07-000102-20251017	9	1.14	10.21	11.35	6.03	47.9	
Q3395-03	Q3395-02MS	10	1.14	10.21	11.35	6.03	47.9	
Q3395-04	Q3395-02MSD	11	1.14	10.21	11.35	6.03	47.9	
Q3395-05	PR132-S07-102116-20251017	12	1.13	10.12	11.25	6.33	51.4	
Q3395-06	PR132-COMP03-20251017	13	1.15	10.74	11.89	8.65	69.8	
Q3395-07	PR132-S08-038048-20251017	14	1.15	10.68	11.83	7.41	58.6	
Q3396-01	A	15	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3396-02	B	16	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3396-03	C	17	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3397-01	TP-7-WC	18	1.14	10.67	11.81	10.66	89.2	
Q3397-02	TP-7-EPH	19	1.18	10.18	11.36	9.81	84.8	
Q3397-03	TP-7-VOC	20	1.14	10.66	11.8	10.55	88.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

LB137589

WorkList Name : % SOLID-102025 **WorkList ID :** 192564 **Department :** Wet-Chemistry **Date :** 10-20-2025 15:56:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3368-06	OUTSIDE-DUMPSTER	Solid	Percent Solids	Cool 4 deg C	ARAM01	D41	10/16/2025	Chemtech -SO
Q3368-07	PRESS-SLUDGE	Solid	Percent Solids	Cool 4 deg C	ARAM01	D41	10/16/2025	Chemtech -SO
Q3393-01	PR132-S10-000022-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3393-02	PR132-S10-022047-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3393-03	PR132-S08-013038-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3393-04	PR132-S06-000021-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3393-05	PR132-S08-000013-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-01	PR132-S09-000051-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-02	PR132-S07-000102-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-03	Q3395-02MS	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-04	Q3395-02MSD	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-05	PR132-S07-102116-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-06	PR132-COMP03-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3395-07	PR132-S08-038048-20251017	Solid	Percent Solids	Cool 4 deg C	AECO02	D31	10/17/2025	Chemtech -SO
Q3396-01	A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/17/2025	Chemtech -SO
Q3396-02	B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/17/2025	Chemtech -SO
Q3396-03	C	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/17/2025	Chemtech -SO
Q3397-01	TP-7-WC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/17/2025	Chemtech -SO
Q3397-02	TP-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/18/2025	Chemtech -SO
Q3397-03	TP-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	10/18/2025	Chemtech -SO

Date/Time 10/20/25 16:20
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 10/20/25 17:40
Raw Sample Received by:
Raw Sample Relinquished by:

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

Prep Standard - Chemical Standard Summary

Order ID : Q3393

Test : VOC-TCLVOA-10

Prepbatch ID :

Sequence ID/Qc Batch ID: VW102025,VY102025,VY102125,

Standard ID :
VP133934,VP134147,VP134149,VP134150,VP134934,VP134957,VP135552,VP135553,VP135834,VP135835,VP135844,VP135847,VP135848,VP135871,VP135872,VP135873,VP135882,VP135883,VP135884,

Chemical ID :
V13391,V14200,V14204,V14205,V14290,V14509,V14510,V14531,V14532,V14625,V14636,V14637,V14638,V14639,V14673,V14727,V14728,V14803,V14815,V14844,V14906,V14921,V14928,V14929,V14951,V14952,V15073,V15074,V15075,W3112,

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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
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

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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
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

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

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP135552	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 09/26/2025

FROM 0.40000ml of V14844 + 1.00000ml of V14200 + 1.00000ml of V14509 + 1.00000ml of V14510 + 1.00000ml of V14531 + 1.00000ml of V14532 + 1.00000ml of V14727 + 1.00000ml of V14728 + 1.00000ml of V14803 + 1.00000ml of V14815 + 1.00000ml of V14951 + 1.00000ml of V14952 + 1.50000ml of V14204 + 1.50000ml of V14205 + 10.60000ml of V14928 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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

VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	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

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
732	BFB TUNE CHECK - SOIL	VP135844	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

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	VP135847	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

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	VP135848	10/20/2025	10/21/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 10/21/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
732	BFB TUNE CHECK - SOIL	VP135871	10/21/2025	10/22/2025	Amit Patel	None	None	Mahesh Dadoda 10/21/2025

FROM 4.99800ml of W3112 + 0.00200ml of VP134957 = 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	VP135872	10/21/2025	10/22/2025	Amit Patel	None	None	Mahesh Dadoda 10/21/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
773	50 PPB CCC, 8260-SOIL	VP135873	10/21/2025	10/22/2025	Amit Patel	None	None	Mahesh Dadoda 10/21/2025

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
732	BFB TUNE CHECK - SOIL	VP135882	10/20/2025	10/21/2025	Amit Patel	None	None	Mahesh Dadoda 10/23/2025

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	VP135883	10/20/2025	10/21/2025	Amit Patel	None	None	Mahesh Dadoda 10/23/2025

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	VP135884	10/20/2025	10/21/2025	Amit Patel	None	None	Mahesh Dadoda 10/23/2025

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

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 #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	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	V14673

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	03/22/2026	09/22/2025 / sam	05/09/2025 / SAM	V14928

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL):	100.0	0.021	Flask Uncertainty	5E-05 Balance Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

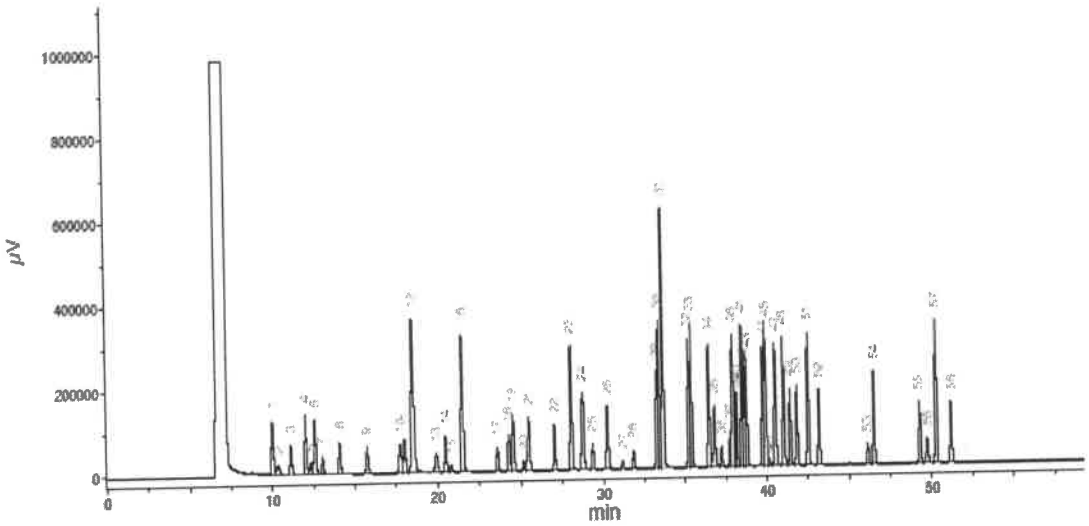
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 846mg/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	27.07
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	48.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty (5E-05 Balance Uncertainty)

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

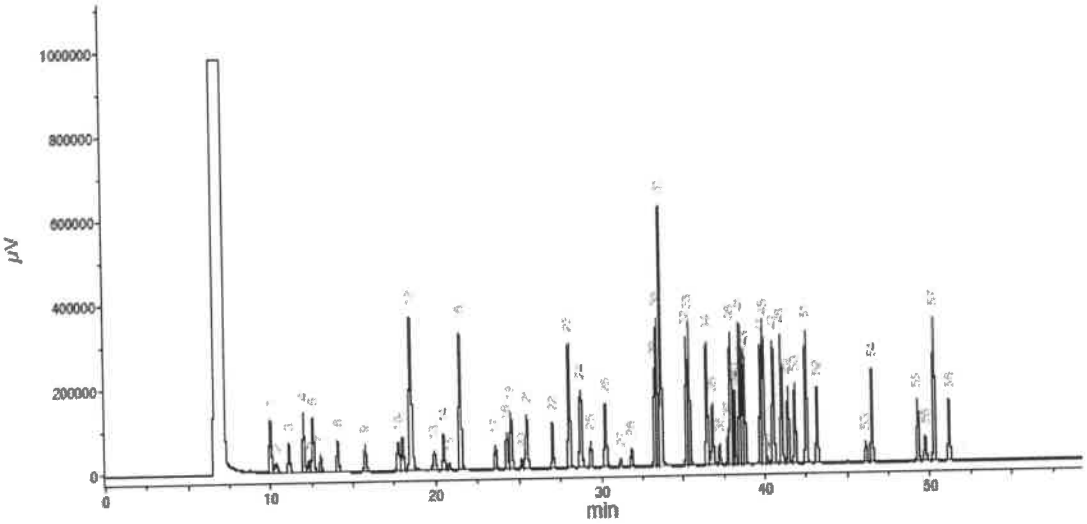
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	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)	MKBW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	6.97
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	35.39
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

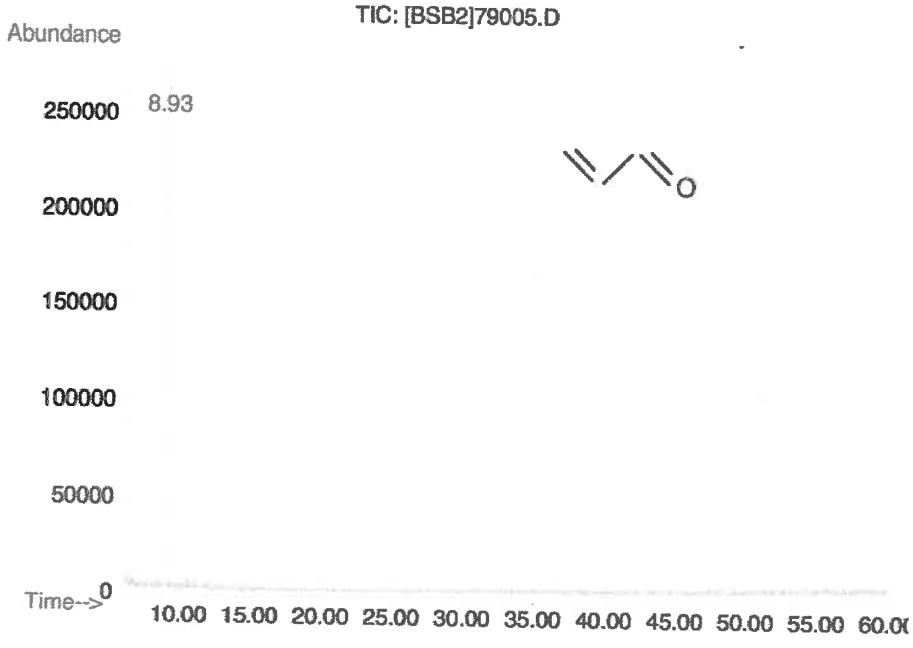
Solvent(s): Water **Lot#** 072324Q

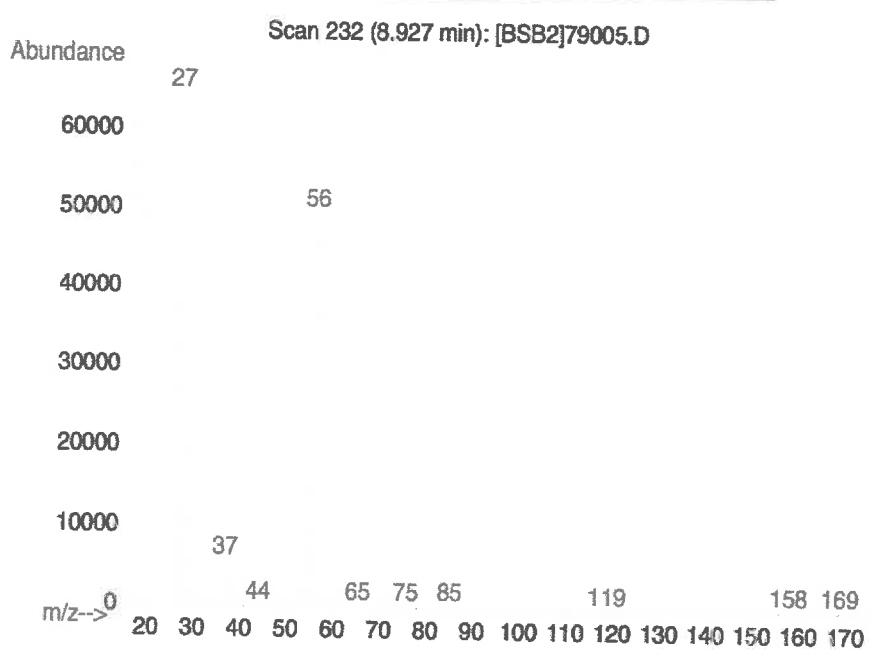
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

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.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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

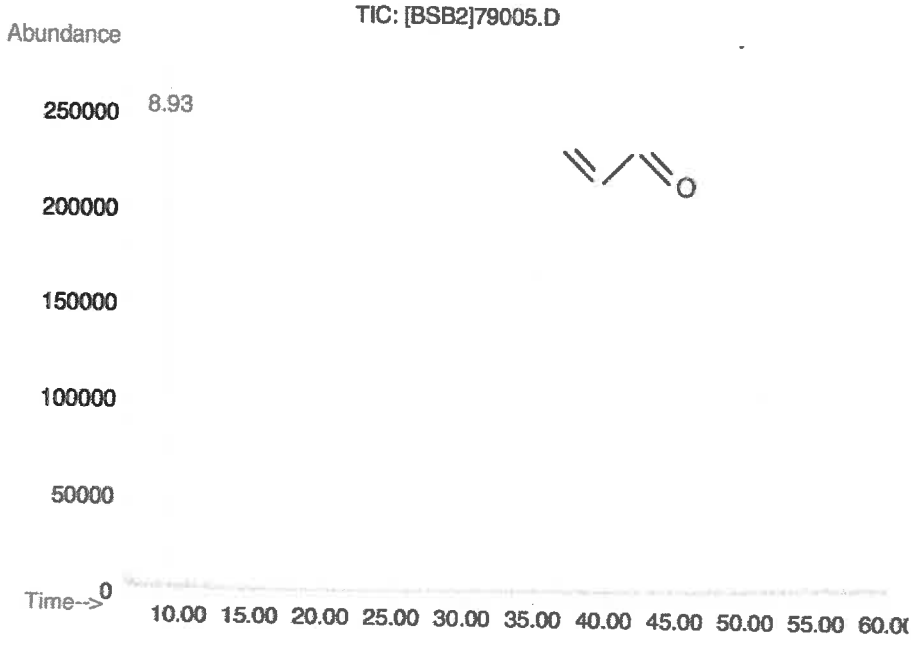
Solvent(s): Water **Lot#** 072324Q

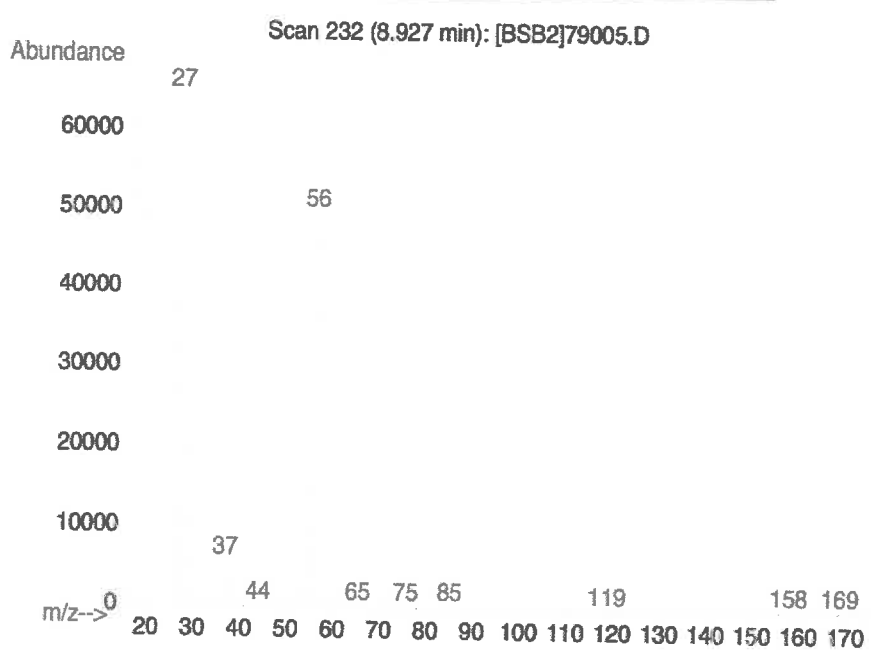
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Formulated By: Justin Dippold	091424 DATE
Reviewed By: Pedro L. Rentas	091424 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 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

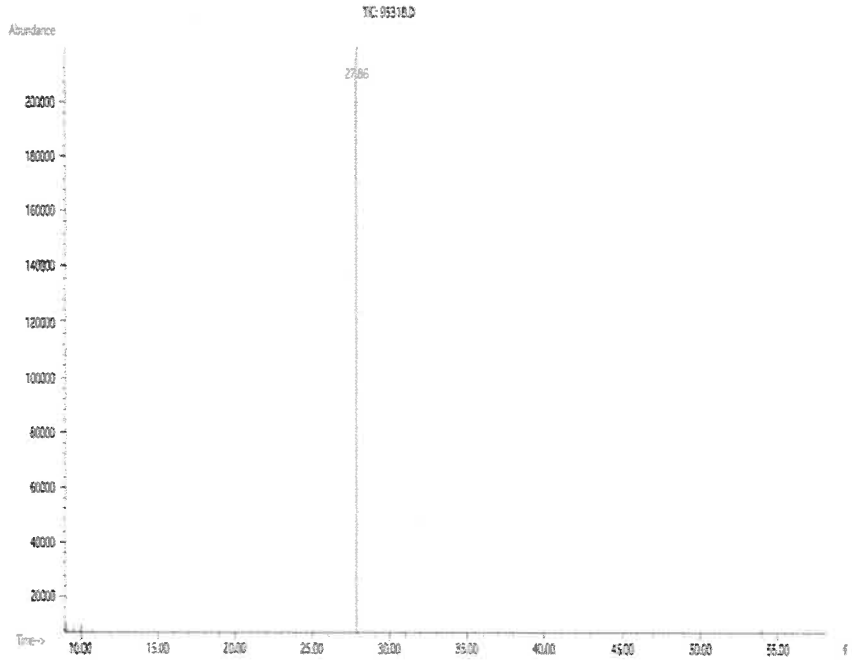
Solvent(s): Methanol **Lot#** EJ143-US

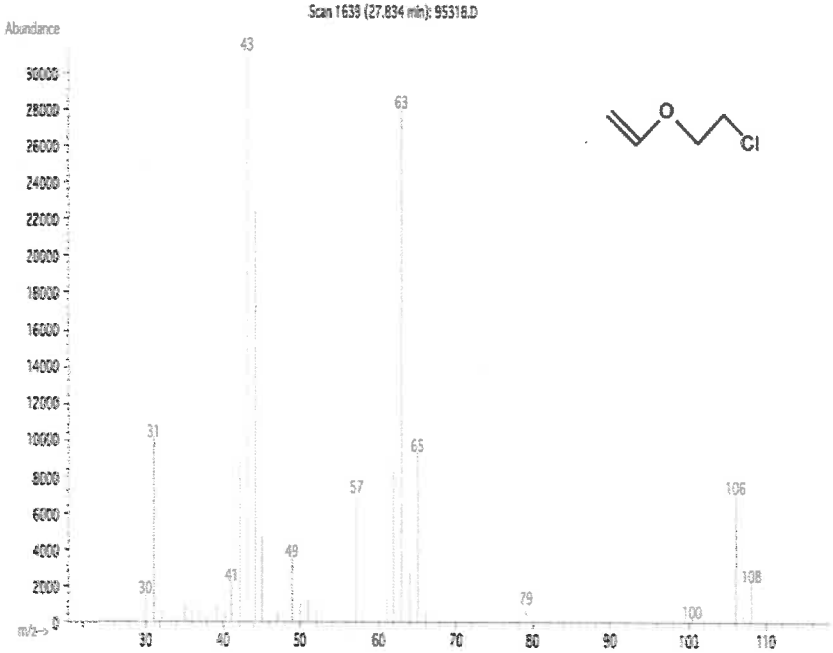
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	95318
Lot Number:	120524
Description:	2-Chloroethyl vinyl ether
Expiration Date:	120527
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	10000
NIST Test ID#:	6UTB

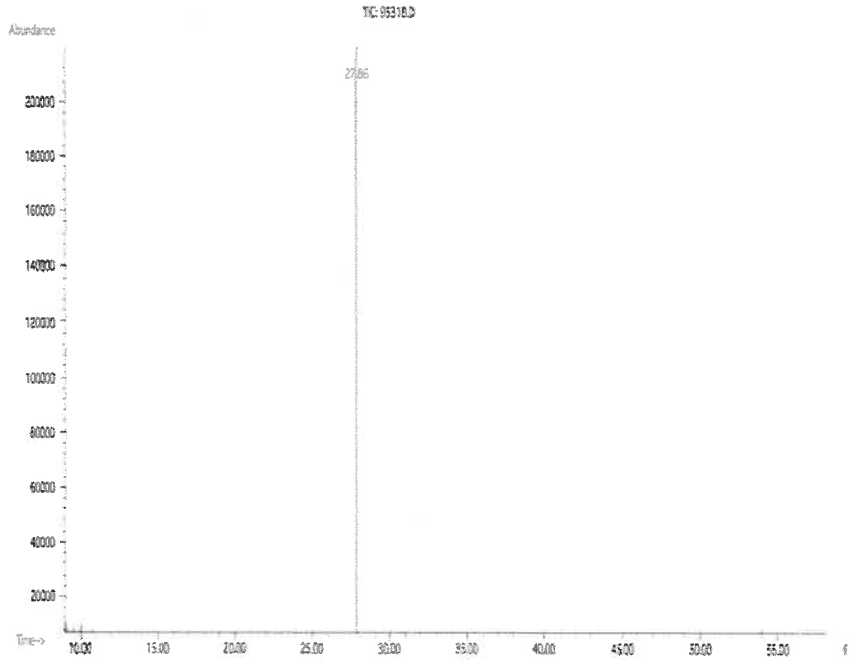
Solvent(s): Methanol **Lot#** EJ143-US

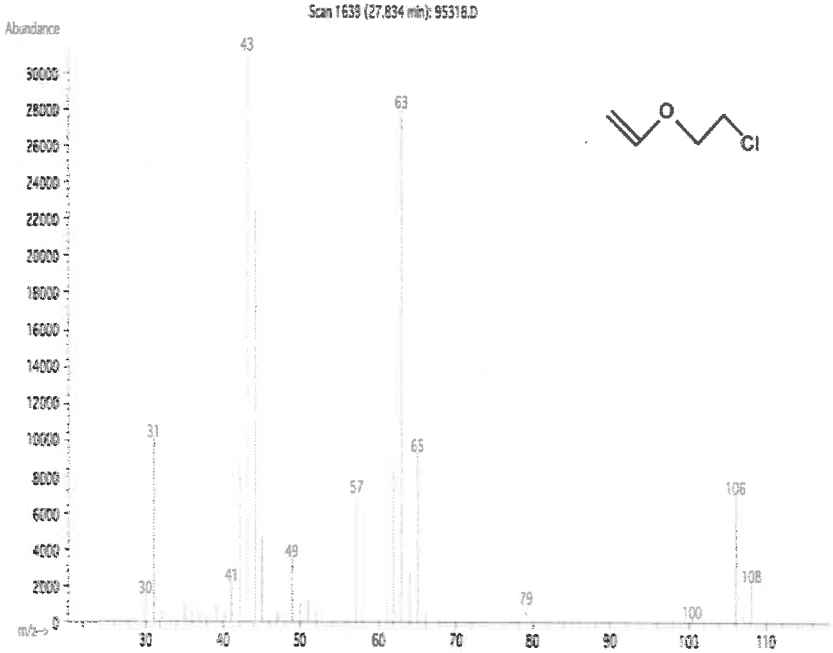
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	95318
Lot Number:	120524
Description:	2-Chloroethyl vinyl ether
Expiration Date:	120527
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	10000
NIST Test ID#:	6UTB

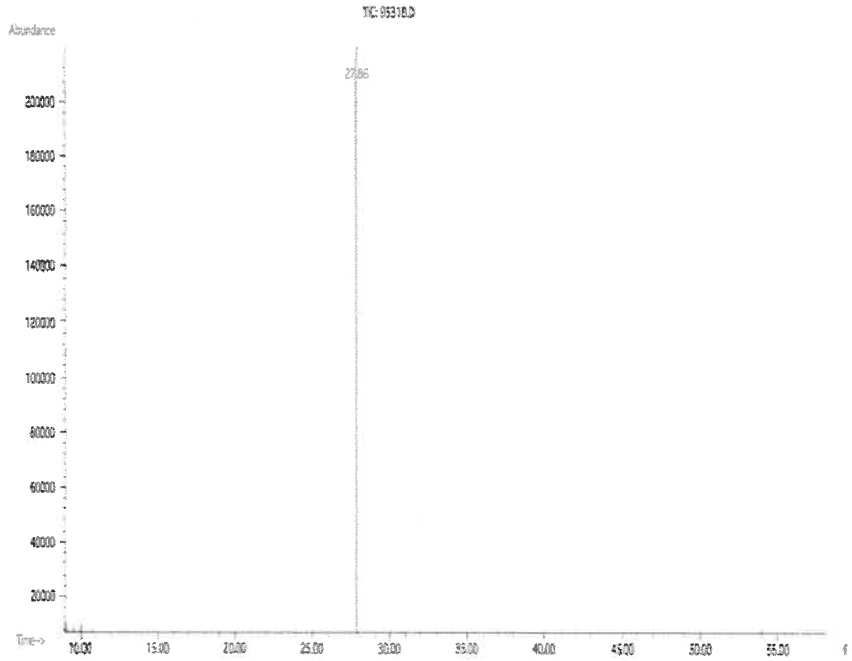
Solvent(s): Methanol **Lot#** EJ143-US

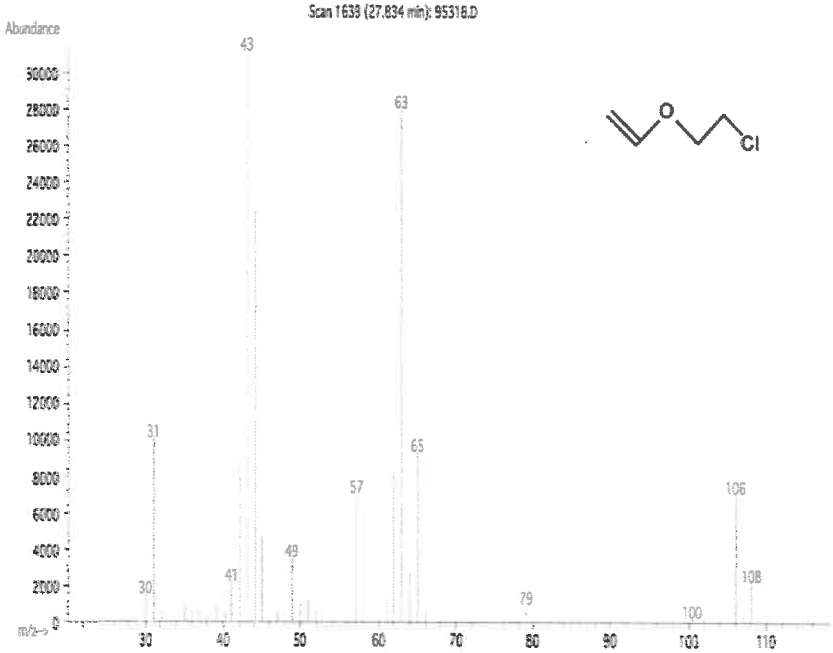
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

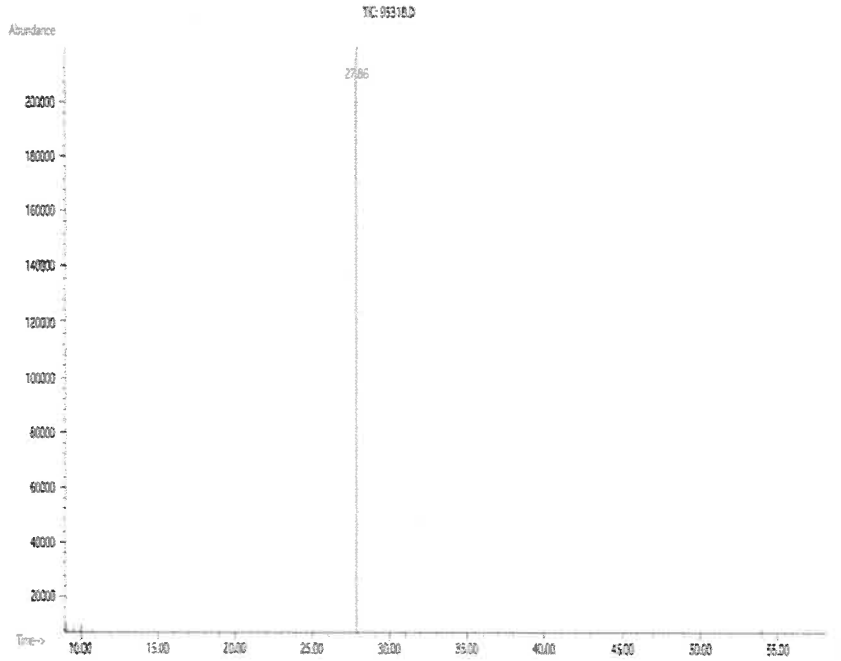
Solvent(s): Methanol **Lot#** EJ143-US

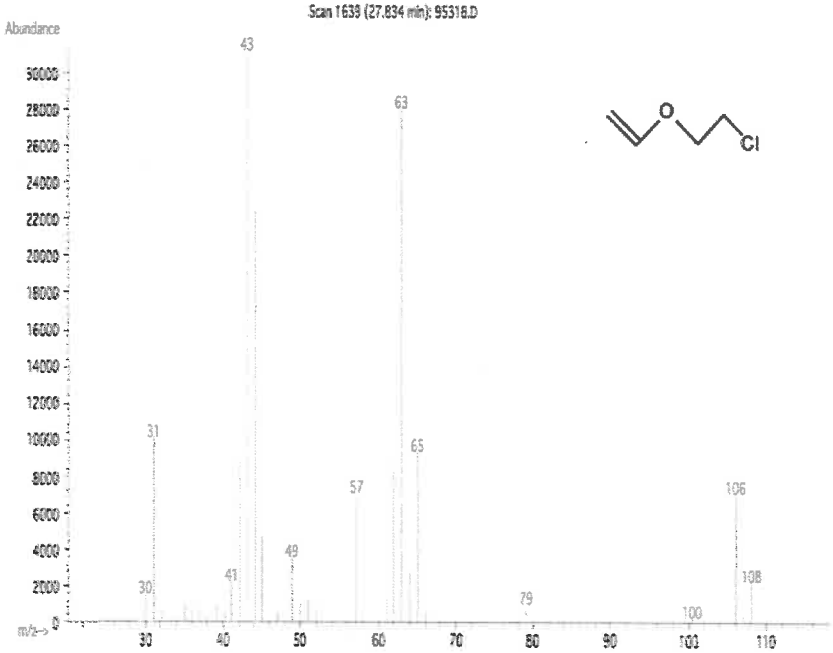
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan	120524
Formulated By: Prashant Chauhan	DATE
Pedro Rentas	120524
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

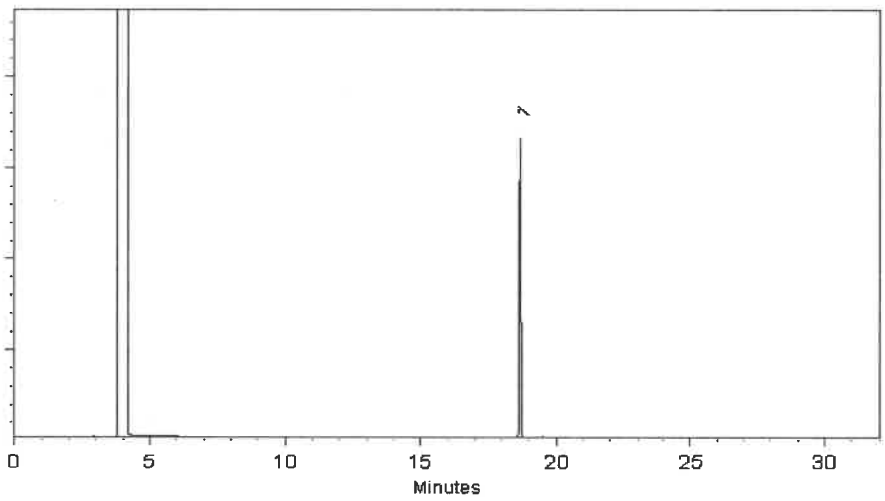
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

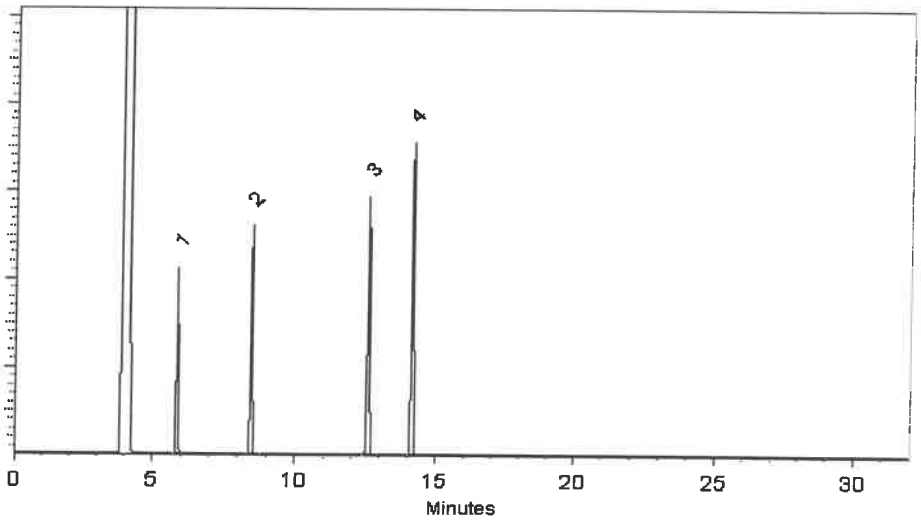
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

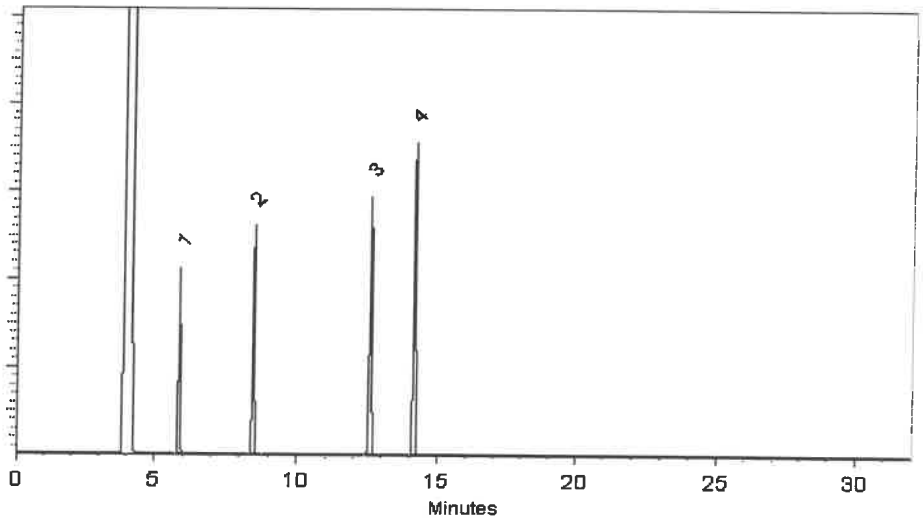
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0200785

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

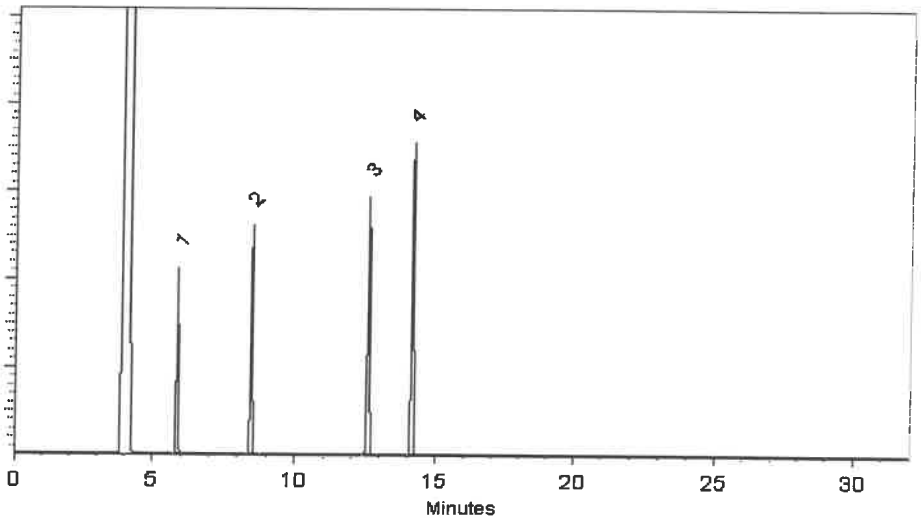
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I **Date Mixed:** 11-Apr-2024 **Balance:** 1127510105

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

Certificate of Analysis

chromatographic plus

V14667 to
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

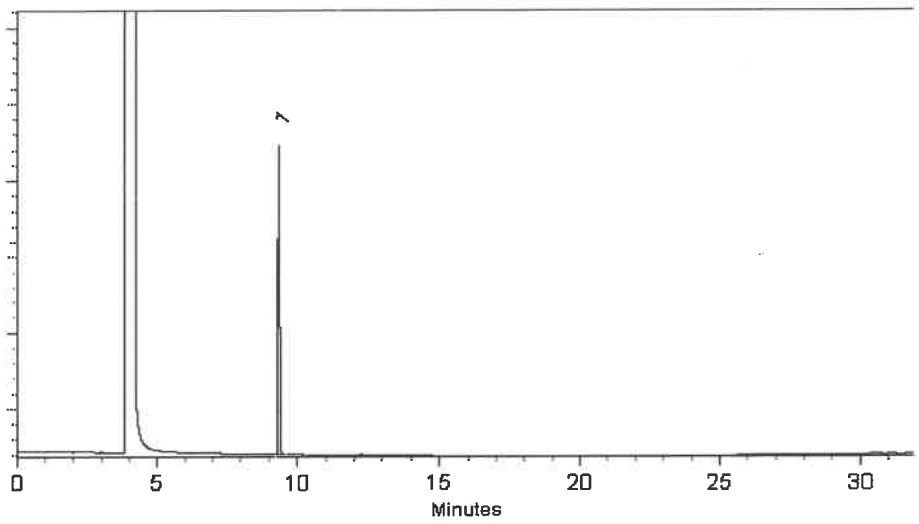
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

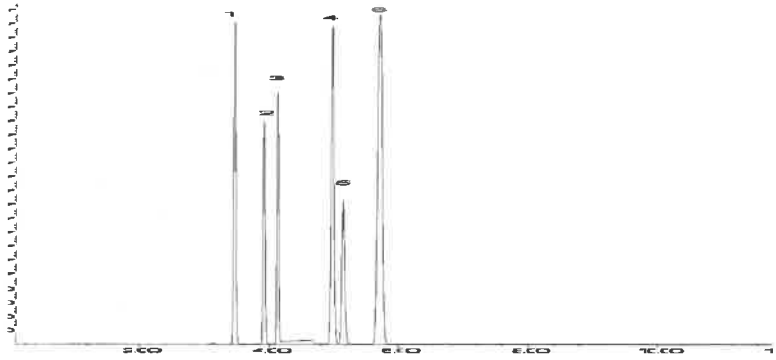
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

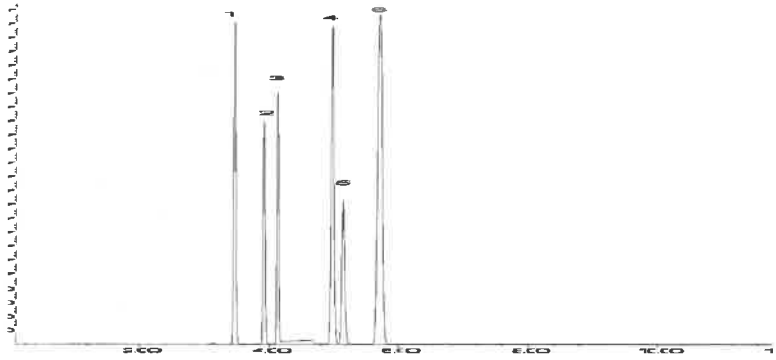
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

J14842 to 14846

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

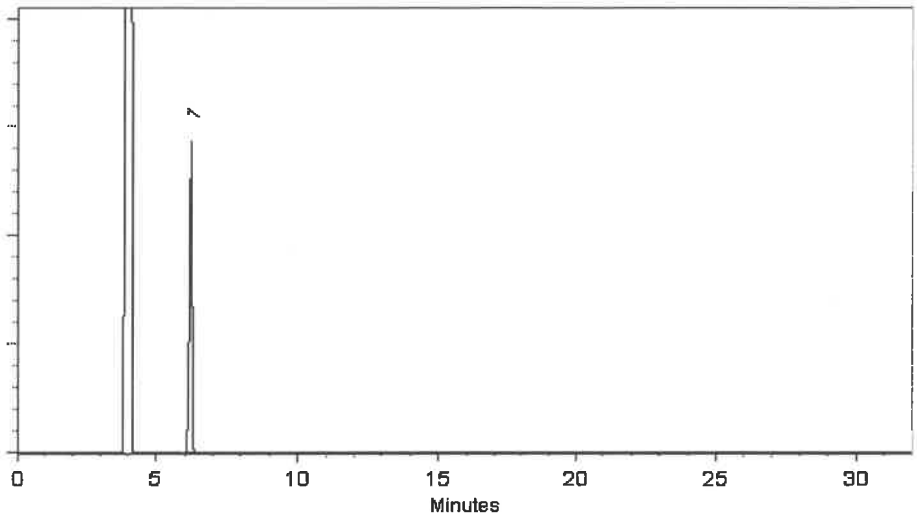
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic

V14803 - V14822

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

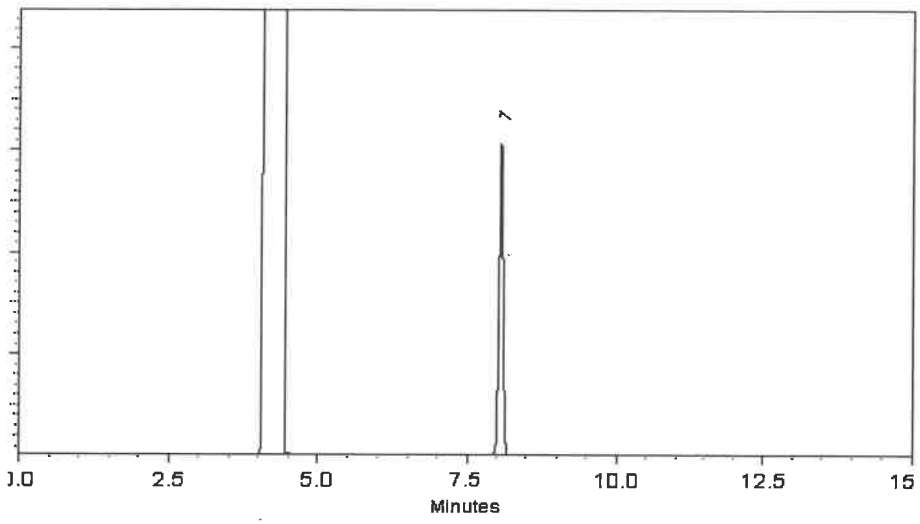
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoey Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

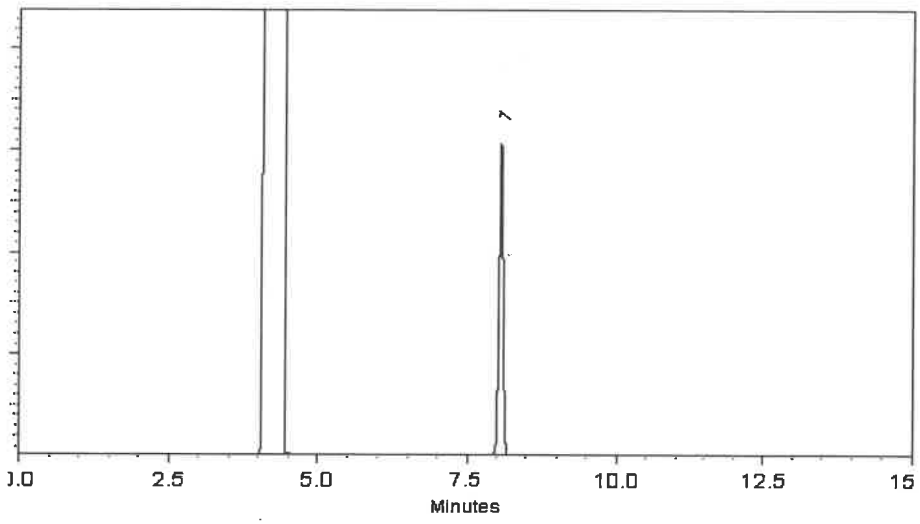
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial
Lee 03/31/25

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

V14904 to V14913

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0223904

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 27-Mar-2025 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.3
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Lee 05119125

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

20 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 05119125

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

20 Vial

Certificate of Analysis

chromatographic plus

J14951 to J14970

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

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

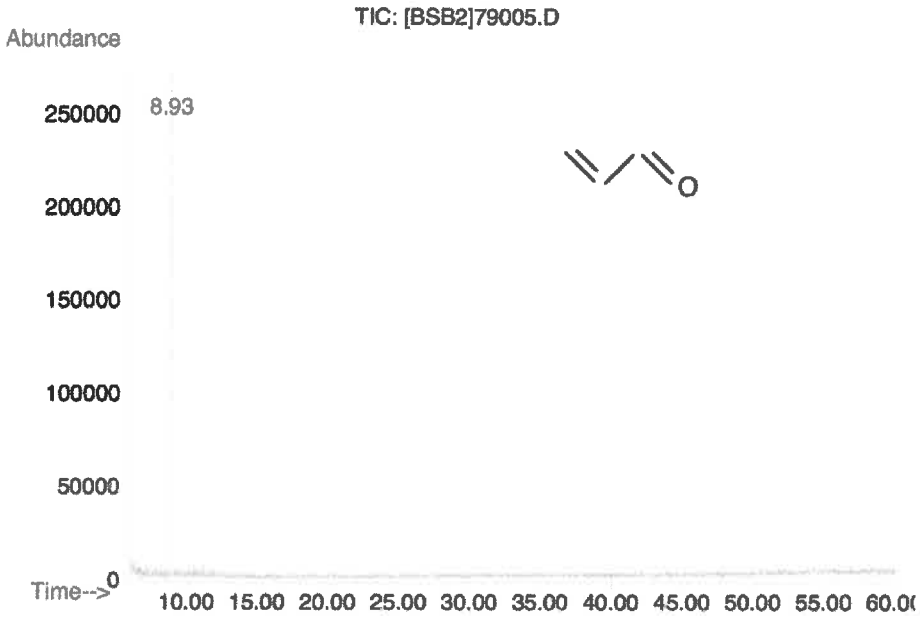
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

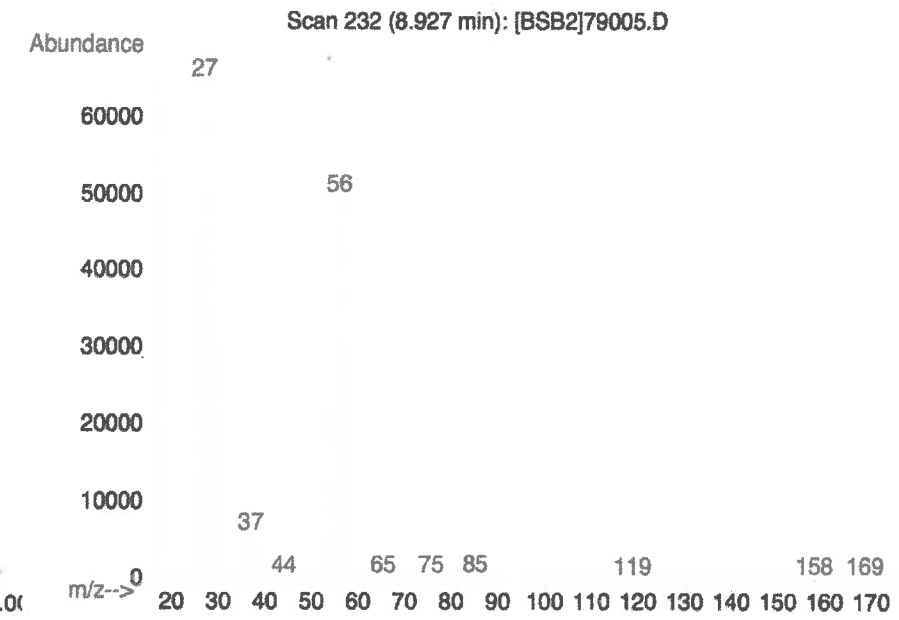
Weight(s) shown below were combined and diluted to (mL): 10.0

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

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

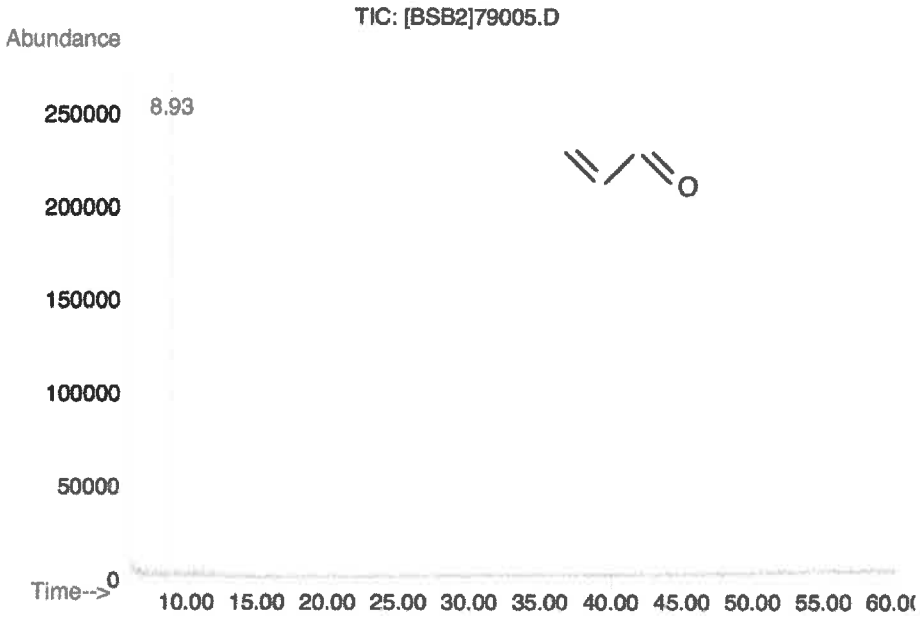
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

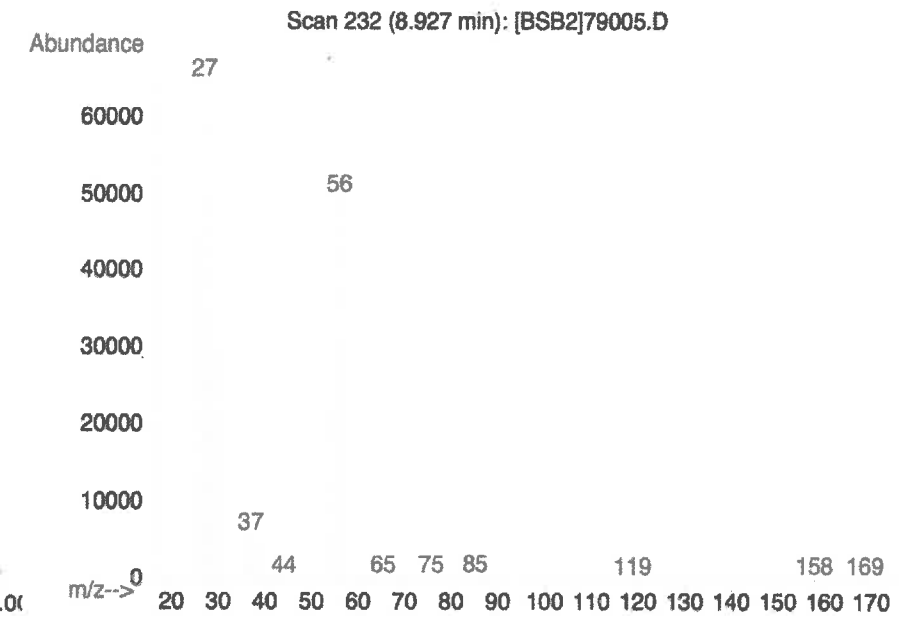
Weight(s) shown below were combined and diluted to (mL): 10.0

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. Government Printing Office, Washington, DC, (1994).
  Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 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

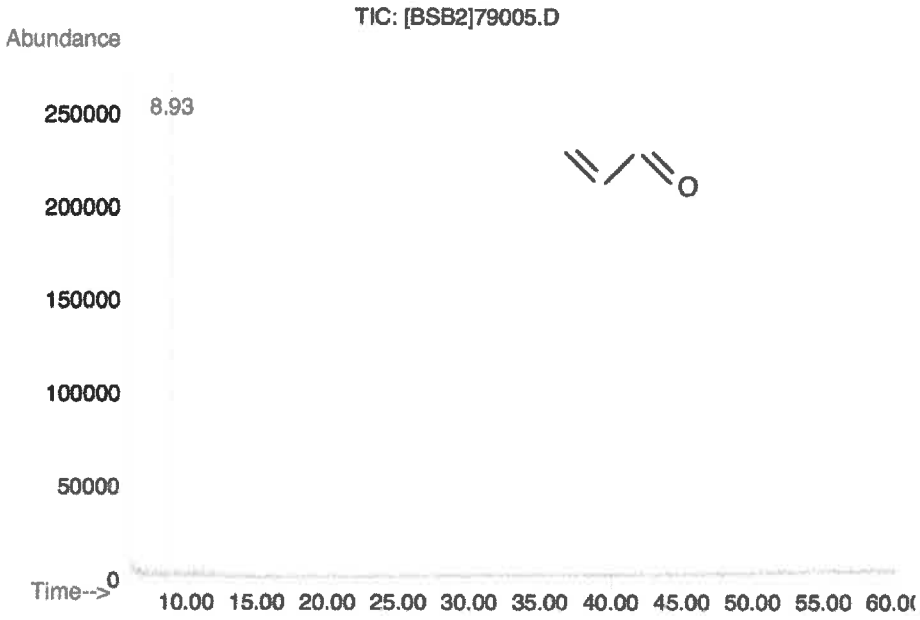
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

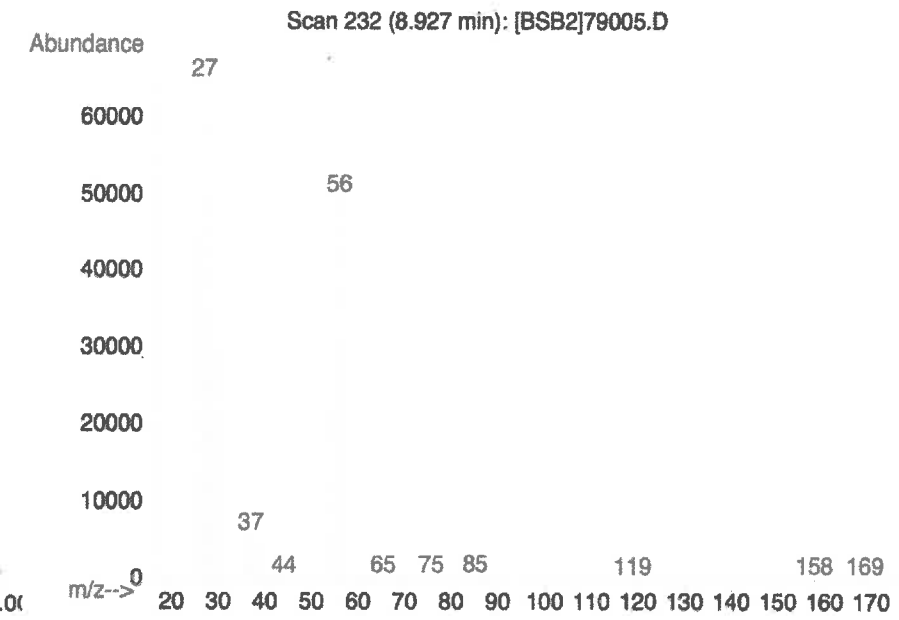
Weight(s) shown below were combined and diluted to (mL): 10.0

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: renisha

Supervise By: Amit

Seq	LabID	Vial A Weight(g)= Total Wt-Tare Wt	Vial A Time	Vial B Weight(g)= Total Wt-Tare Wt	Vial B Time	Vial C Weight(g) Preserve with MeOH	Vial C Time	Methanol ID	Preservation Date	Comments
1	Q3393-01	40.27-32.25=8.02	10:01	39.01-31.22=7.79	10:02	37.07-28.45=8.62	10:03	V14921	10/20/2025	8260 TERRACORE SAMPLES
2	Q3393-02	40.67-35.76=4.91	10:03	41.66-33.27=8.39	10:04	33.13-28.02=5.11	10:05	V14921	10/20/2025	
3	Q3393-03	45.05-40.58=4.47	10:06	5.00-0.00=5	10:07	33.00-28.05=4.95	10:08	V14921	10/20/2025	
4	Q3393-04	35.85-31.24=4.61	10:08	35.09-32.69=2.4	10:09	34.05-28.27=5.78	10:10	V14921	10/20/2025	
5	Q3393-05	43.75-40.67=3.08	10:11	34.31-31.14=3.17	10:12	31.88-28.37=3.51	10:13	V14921	10/20/2025	

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

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q3393
QUOTE NO. Q3394
COC Number 2045349

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: AECOM
ADDRESS: 605 3rd Ave
CITY New York STATE: NY ZIP: 10158
ATTENTION: Rob Forstner
PHONE: 212-377-8721 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Port Richmond 132
PROJECT NO.: 60693795 LOCATION: Staten Island
PROJECT MANAGER: Rob Forstner
e-mail: Robert.Forstner@aecom.com
PHONE: 212-377-8721 FAX:

CLIENT BILLING INFORMATION

BILL TO: AECOM PO#:
ADDRESS: 605 3rd Ave
CITY New York STATE: NY ZIP: 10158
ATTENTION: Rob Forstner PHONE: 212-377-8721

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☒ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1: SVOCs 2: Pesticides 3: Mercury Metals 4: PCBs 5: Hexchrome 6: Dioxin 7: Grain Size 8: TOC 9: VOCs

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	Method 8	9	COMMENTS
1.	PR132-S10-000022-20251017	S		X	10/17	0945	11	X	X	X	X	X	X	X	X		
2.	PR132-S10-022047-20251017	S		X	10/17	0955	11	X	X	X	X	X	X	X	X		
3.	PR132-S08-013038-20251017	S		X	10/17	0855	11	X	X	X	X	X	X	X	X		
4.	PR132-S06-000021-20251017	S		X	10/17	0800	11	X	X	X	X	X	X	X	X		
5.	Temp Blank	A			10/17		1	X	X	X	X	X			X		
6.	PR132-S08-000013-20251017	S		X	10/17	0845	11	X	X	X	X	X	X	X	X		
7.																	
8.																	
9.																	
10.																	

Method: ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Jim Alderson	10/17/25 4pm	1. 1600 10-17-25
2.		2.
3.	1740 10-17-25	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.0 °C
Comments:

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Copyright © 2024

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3393 AECO02
Client Name : AECOM
Client Contact : Rob Forstner
Invoice Name : AECOM
Invoice Contact : Rob Forstner

Order Date : 10/17/2025 4:23:00 PM
Project Name : AE1-CTY 3.2.Z-PR-DOCK
Receive DateTime : 10/17/2025 ~~12:00:00 AM~~ 5:40 PM
Purchase Order :

Project Mgr :
Report Type : NYS ASP B
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3393-01	PR132-S10-000022-20251017	Solid	10/17/2025	09:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q3393-02	PR132-S10-022047-20251017	Solid	10/17/2025	09:55					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q3393-03	PR132-S08-013038-20251017	Solid	10/17/2025	08:55					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q3393-04	PR132-S06-000021-20251017	Solid	10/17/2025	08:00					
					VOC-TCLVOA-10		8260D		10 Bus. Days
Q3393-05	PR132-S08-000013-20251017	Solid	10/17/2025	08:45					
					VOC-TCLVOA-10		8260D		10 Bus. Days

Relinguished By : CP
Date / Time : 10/20/25 1200

Received By :
Date / Time : 10/20/25 1200
Storage Area : **VOA Refridgerator Room**